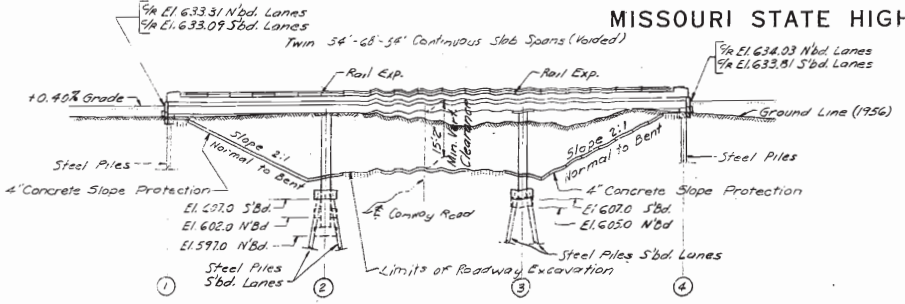
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	190	



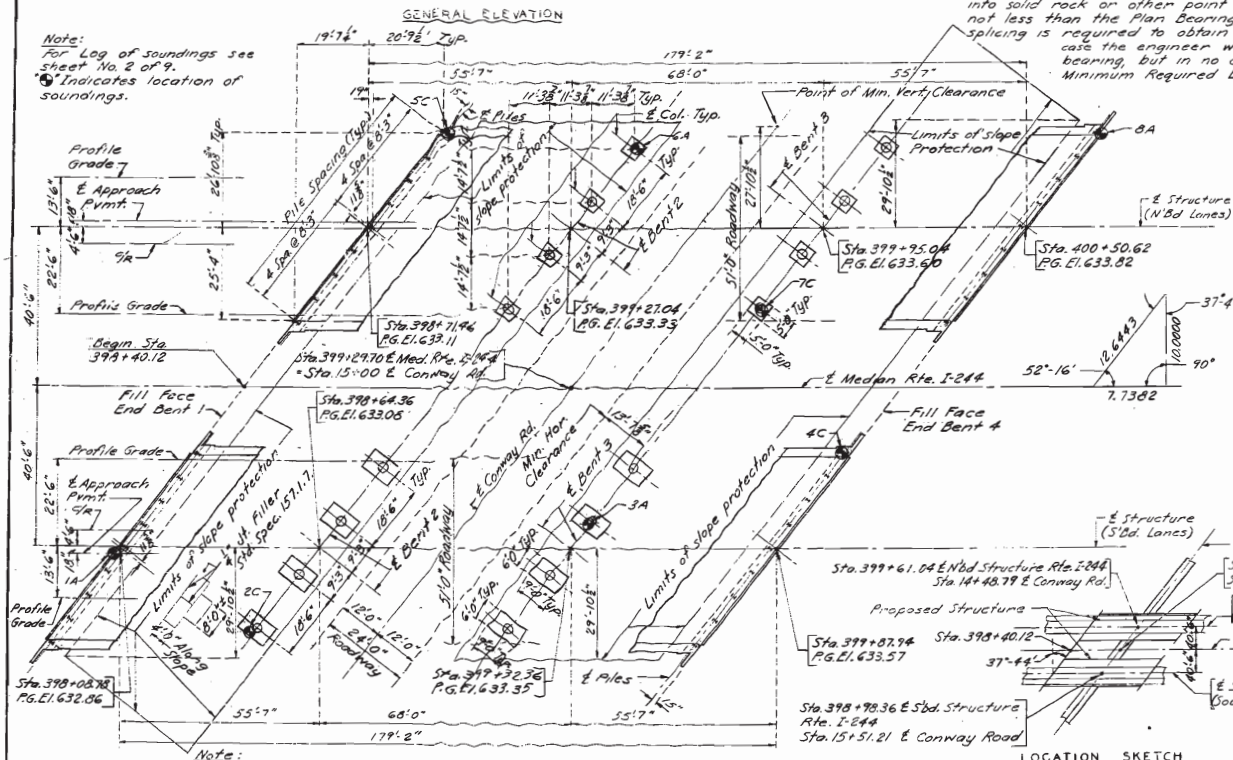
GENERAL ELEVATION

FOOTING AND PILE DATA									
BENT NUMBER		1		2		3		4	
LANE		N'Bd	S'Bd	N'Bd	S'Bd	N'Bd	S'Bd	N'Bd	S'Bd
SPREAD FTG'S.	Found. Material			Rock		Rock			
	Design Bearing Tons / sq. ft.			10.0		10.0			
	See Standard Specification 50.4.2								
BEARING PILE	Pile Type & Size	12BP53	12BP53	12BP53		12BP53	12BP53	12BP53	
	Number	9	9	22		22	9	9	
	Approx. Lgth. Ft.	30	40	15		30	25	40	
	Plan Bearing Tons	46	46	46		46	46	46	
	Min. Req'd. Brg Tons	46	46	41		41	46	46	
	Hammer	Vulcan Power	Vulcan Power	Vulcan Power		Vulcan Power	Vulcan Power	Vulcan Power	
	See Standard Specification 52.2.6								

Note: Footings for bents 2 and 3, Northbound Structure shall be carried 6" into hard, solid, undisturbed rock or 18" into soft rock or shale and cast against vertical faces of same. All pile shall be driven to practical refusal on or into solid rock or other point bearing material at not less than the Plan Bearing shown, unless excessive splicing is required to obtain Plan Bearing, in which case the engineer will authorize a lesser bearing, but in no case less than the Minimum Required Bearing.

GENERAL NOTES

Design Specifications A.A.S.H.O. 1961
Loading H20-S16-44 (15#/sq. ft. Future Wearing Surface) Modified 24000# Tandem Axle
Steel Piles shall be A.S.T.M. A36-62T
Reinforcing Steel Stress 20,000 #/Sq. inch.
Concrete, Class B Stress 1200 #/Sq. inch.
Concrete, Class B1 Stress 1600 #/sq. inch
Superstructure Concrete shall be Class B1.
Substructure Concrete shall be Class B except pavement will be on the basis of Class B.
Superstructure Deck to be surface sealed. (See Special Provisions).
All dimensions to reinforcing steel are to centerline bar except where clear distance from face of concrete is indicated.
Where joint filler is specified on the plans it shall conform to Standard Specification 157.2.4.
See Standard Specification 55.3.13 for qualification of welding operators



PLAN

LOCATION SKETCH

ESTIMATED QUANTITIES				
Item		Substr.	Superstr.	Totals
Class 1 Excavation for Structures	Cu. Yds.	600	–	600
12" Steel Piles in Place	Lin. Ft.	1965	–	1965
12" Steel Pile Cutoffs	Lin. Ft.	240	–	240
Class B Concrete	Cu. Yd.	66.6	–	66.6
Class B1 Concrete	Cu. Yd.	–	1529.9	1529.9
Reinforcing Steel	Lb.	2920	383,210	386,130
Bridge Rail (Single Tube Type)	Lin. Ft.	–	680	680

Note:
Excavation for Structures will be paid for as Class 1.
Class 1 Excavation for Structures will be computed from the original ground line (1956) or from the lower limits of roadway excavation, whichever is lower regardless of the sequence of operations and the method of removal.
All concrete and reinforcement in End Bents and above footings in Intermediate Bents is included in superstructure quantities.
Concrete protection on front slopes at end bents to be included under roadway items. Provide 1" filler (Standard Specification 157.1.7) between slope protection pavement and intermediate bents.

SUBMITTED BY

REGISTERED PROFESSIONAL ENGINEER
MISSOURI NO. E-5777

B.M. #32 Spike in P pole 150' Rt. (S. side Conway Rd.) Sta. 398+45 Elev. 624.91 U.S.G.S. Datum

BRIDGE OVER CONWAY ROAD

STATE ROAD INTERSTATE ROUTE 244
ABOUT 3.5 MILES W. OF LADUE
PROJECT NO. I-244-4(25) (RTE. I-244) STA. 398+40.12

ST. LOUIS COUNTY

SUBMITTED BY G. B. Jenkins BRIDGE ENGINEER DATE 4-29-64
APPROVED BY M. A. Snider CHIEF ENGINEER DATE 4-29-64

STD. 54.00
A-1052

370

DESIGNED Nov. 1963 BY Madlinger
DETAILED Nov. 1963 BY Wilderman
CHECKED Dec. 1963 BY Fieldhammer

R.W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
215 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 9.

MISSOURI STATE HIGHWAY DEPARTMENT

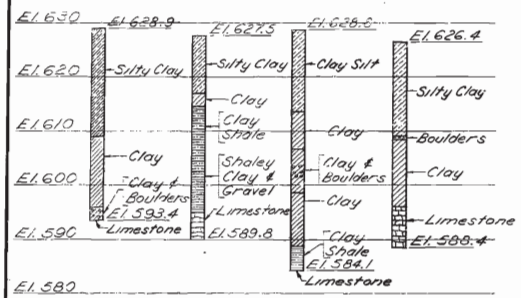
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MO.		19	101	

1-A Sta. 398+08 ℄

2-C Sta. 398+63 26.5 Rt.

3-A Sta. 399+31 11.5' Lt.

4-C Sta. 399+87 35' Lt.



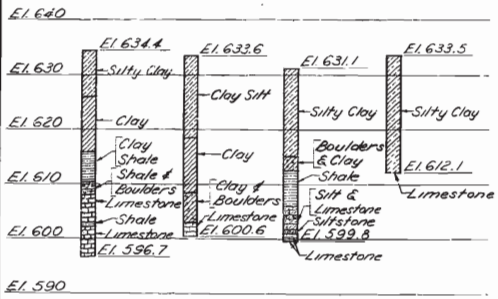
SOUTHBOUND LANES

5-C Sta. 398+73 31' Lt.

6-A Sta. 399+28 26.5' Lt.

7-C Sta. 399+96 30.5' Rt.

8-A Sta. 400+52 31' Lt.



NORTHBOUND LANES

"C" Indicates soundings taken with a Core Drill.
See Sheet 1 of 9 for location of soundings
Borings are dimensioned from ℄ of Lanes.

LOG OF SOUNDINGS

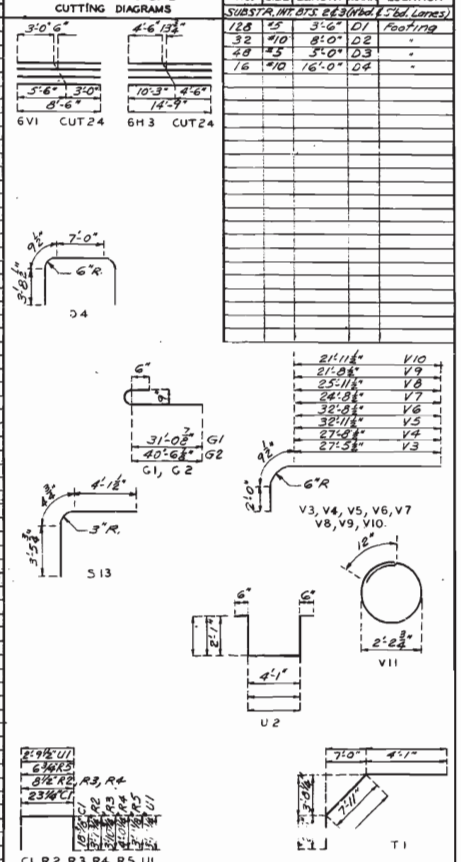
371

COMPLETE BILL OF REINFORCING STEEL

NO.	SIZE	LENGTH	MARK	LOCATION
SUPERSTR. (N'bd. & S'bd. Lanes)				
860	#5	31'-3"	S1	Slab
304	#5	39'-6"	S2	"
160	#14S	37'-6"	S3	"
144	#10	14'-6"	S4	"
144	#14S	24'-9"	S5	"
152	#5	33'-0"	S6	"
320	#10	40'-6"	S7	"
144	#10	42'-6"	S8	"
144	#11	31'-9"	S9	"
80	#10	26'-0"	S10	"
72	#14	42'-6"	S11	"
72	#11	31'-0"	S12	"
860	#5	40'-9"	S13	"
712	#5	5'-0"	C1	Curbs
24	#5	27'-9"	C2	"
24	#5	34'-9"	C3	"
24	#5	29'-6"	C4	"
64	#5	3'-9"	R1	End Posts
8	#5	8'-0"	R2	"
8	#5	8'-6"	R3	"
24	#5	8'-9"	R4	"
676	#4	6'-9"	R5	Parapet
32	#5	21'-6"	R6	"
64	#5	9'-9"	R7	"
32	#5	24'-9"	R8	"
32	#5	23'-0"	R9	"
SUPERSTR. End Bt. 1 & 4 (N'bd. & S'bd. Lanes)				
96	#6	36'-3"	W1	Beam & Slab
416	#5	10'-6"	U1	"
296	#6	8'-0"	S13	"
24	#4	8'-6"	W1	Wing Walls
16	#4	6'-0"	W2	"
40	#6	11'-0"	W2	"
24	#6	14'-9"	W3	"
16	#6	14'-6"	T1	"
SUPERSTR. INT. BT. 2 (N'bd. Lanes)				
10	#11	32'-9"	G1	Slab Beam
10	#11	42'-3"	G2	"
3	#10	31'-6"	G3	"
9	#10	41'-0"	G4	"
9	#10	31'-9"	G5	"
200	#5	9'-3"	U2	"
8	#9	30'-3"	V3	Columns
8	#10	30'-6"	V4	"
8	#10	35'-9"	V5	"
8	#9	35'-6"	V6	"
118	#5	8'-0"	V11	"

NO.	SIZE	LENGTH	MARK	LOCATION
SUPERSTR. INT. BT. 2 (S'bd. Lanes)				
10	#11	32'-9"	G1	Slab Beam
10	#11	42'-3"	G2	"
3	#10	31'-6"	G3	"
9	#10	41'-0"	G4	"
9	#10	31'-9"	G5	"
200	#5	9'-3"	U2	"
16	#9	24'-6"	V9	Columns
16	#10	24'-9"	V10	"
84	#3	8'-0"	V11	"
SUPERSTR. INT. BT. 3 (N'bd. Lanes)				
10	#11	32'-9"	G1	Slab Beam
10	#11	42'-3"	G2	"
3	#10	31'-6"	G3	"
9	#10	41'-0"	G4	"
9	#10	31'-9"	G5	"
16	#9	27'-6"	V7	Columns
16	#10	27'-9"	V8	"
96	#3	8'-0"	V11	"
SUPERSTR. INT. BT. 3 (S'bd. Lanes)				
10	#11	32'-9"	G1	Slab Beam
10	#11	42'-3"	G2	"
3	#10	31'-6"	G3	"
9	#10	41'-0"	G4	"
9	#10	31'-9"	G5	"
200	#5	9'-3"	U2	"
16	#9	24'-6"	V9	Columns
16	#10	24'-9"	V10	"
84	#3	8'-0"	V11	"

BENDING SKETCHES & CUTTING DIAGRAMS



No. 90.2	Revised
June 1961	

Drawn Nov. 1963 by Moore
Checked Nov. 1963 by Fieldhammer

R.W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
213 NORTH ELEVENTH ST
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

BRIDGE OVER CONWAY ROAD
STATE ROAD - INTERSTATE ROUTE 244
ABOUT 3.5 MILES W. OF LADUE
PROJECT NO. I-244-4(25)(RTE I-244) STA. 398 + 40.12
ST. LOUIS **COUNTY**

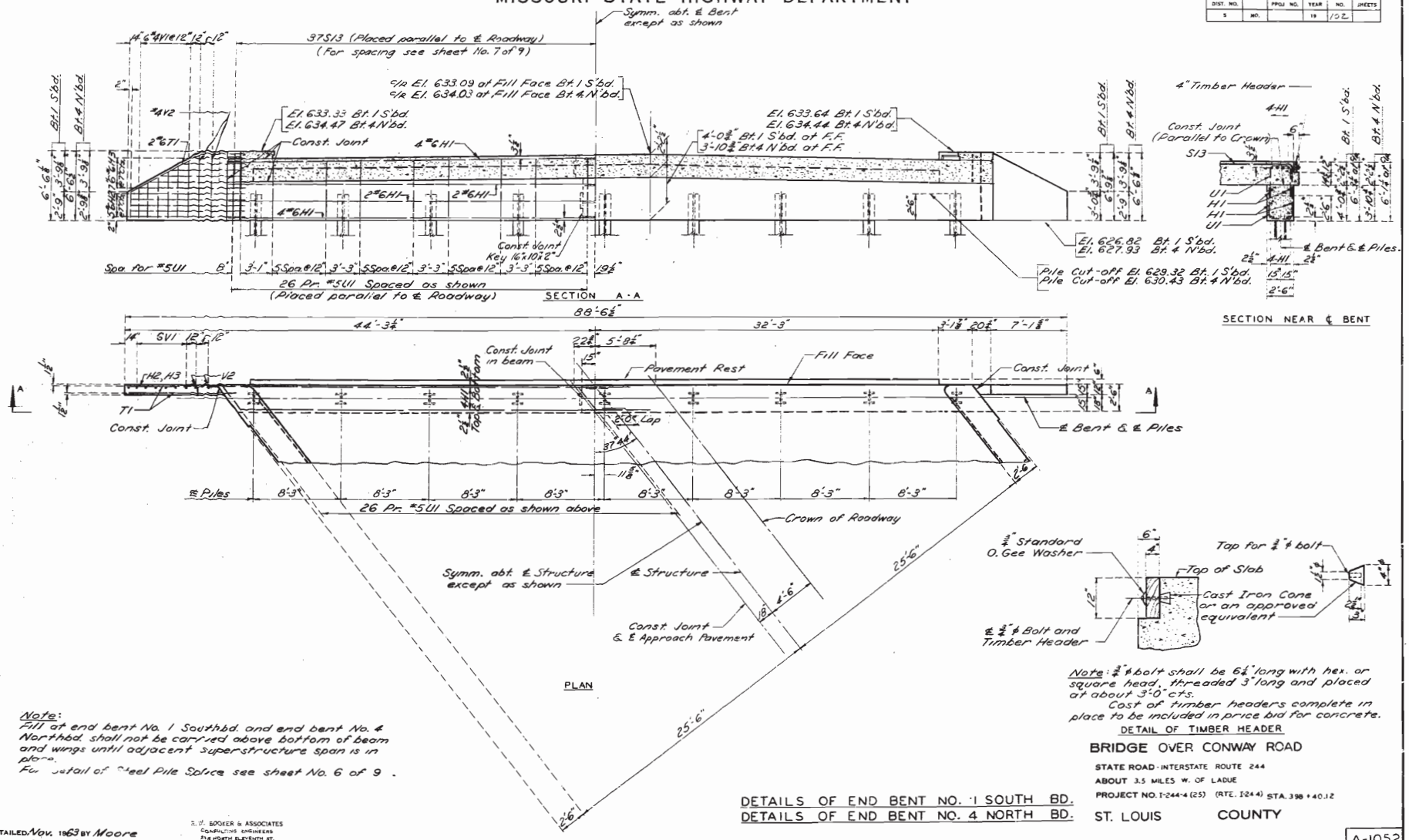
Sheet No. 2 of 9.

A-1052

BY CONSTRUCTION CHANGES

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	102	



Note: ¾" ϕ bolt shall be 6½" long with hex. or square head, threaded 3" long and placed at about 3'-0" cts.
Cost of timber headers complete in place to be included in price bid for concrete.

DETAIL OF TIMBER HEADER

Note:
Fill at end bent No. 1 Southbd. and end bent No. 4 Northbd. shall not be carried above bottom of beam and wings until adjacent superstructure span is in place.
For detail of Steel Pile Splice see sheet No. 6 of 9.

DETAILS OF END BENT NO. 1 SOUTH BD.
DETAILS OF END BENT NO. 4 NORTH BD.

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 244
ABOUT 3.5 MILES W. OF LADUE
PROJECT NO. I-244-4 (25) (RTE. I-244) STA. 398 + 40.12

ST. LOUIS COUNTY

DETAILED Nov. 1963 BY Moore
CHECKED Dec. 1963 BY Fieldhammer

S. W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
718 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 9.

A-1052

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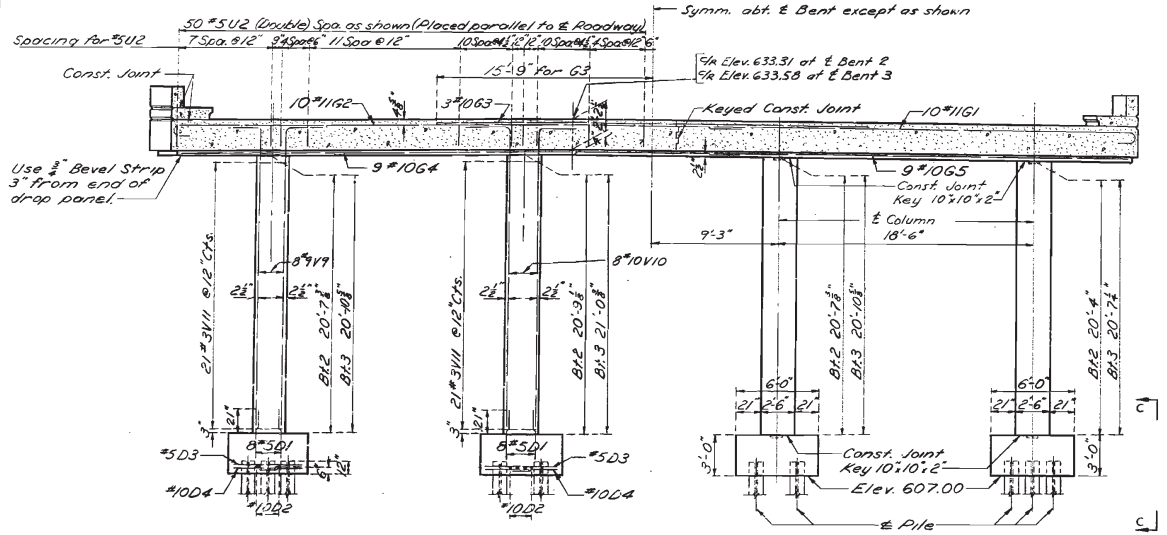
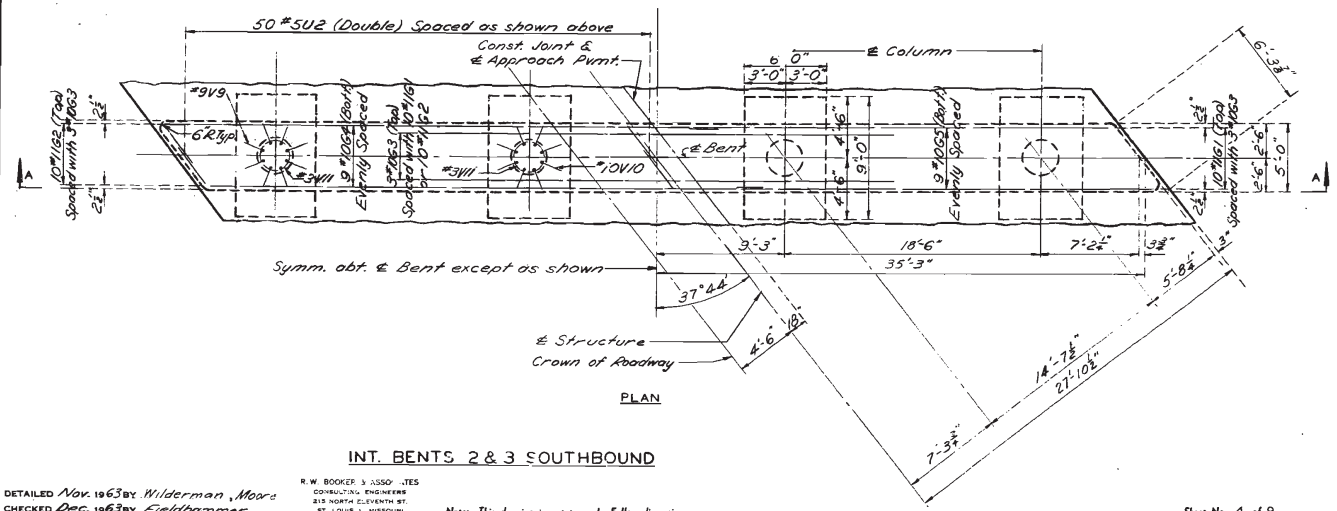
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	19.3	

373

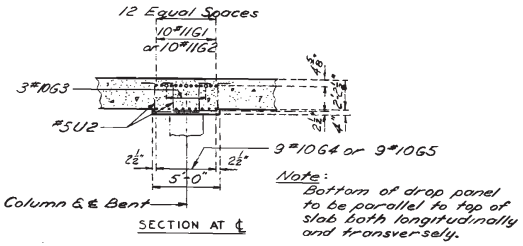


SECTION A-A



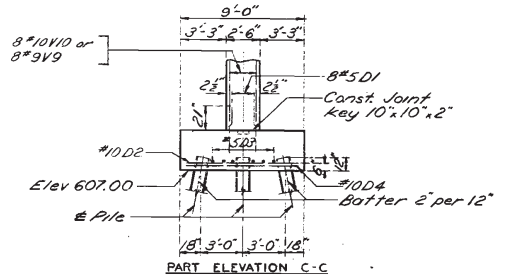
PLAN

INT. BENTS 2 & 3 SOUTHBOUND

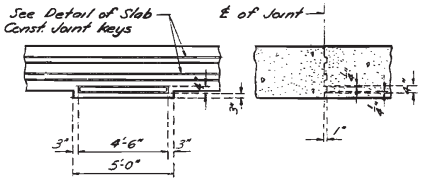


SECTION AT ℄

Note: Bottom of drop panel to be parallel to top of slab both longitudinally and transversely.



PART ELEVATION C-C



DETAIL OF CONSTRUCTION JOINT KEY THRU BEAM

Note: For Plan of Footings see Sheet No. 5 of 9.

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 244

ABOUT 2.5 MILES W OF LADUE

PROJECT NO. I-244-4 (25) **IRTE.** 1284-1 **STA.** 397 + 40.12

ST. LOUIS COUNTY

A-1052

DETAILED Nov. 1963 BY Wilderman, Moore

CHECKED Dec. 1963 BY Feldhammer

R.W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
213 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

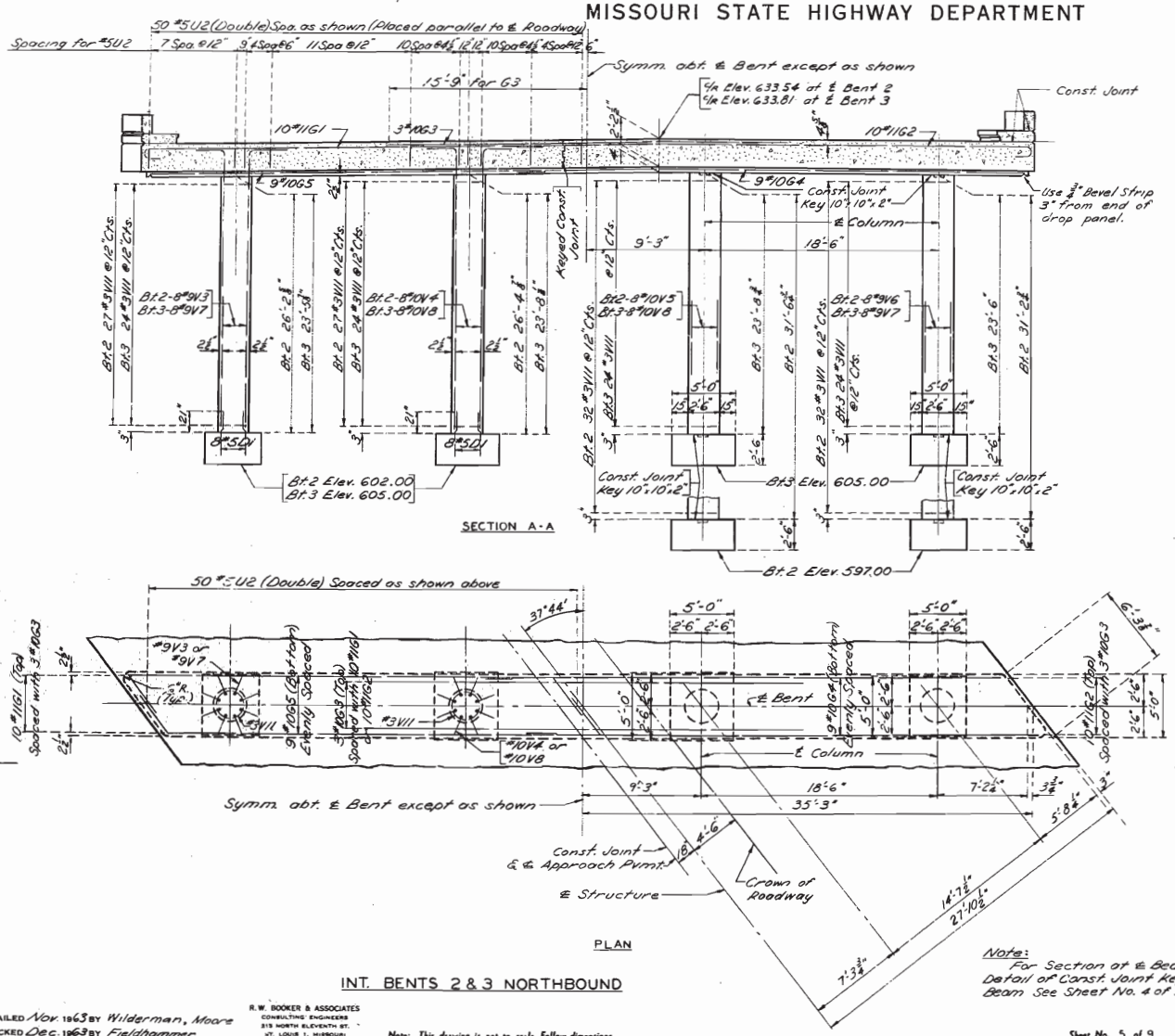
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 9.

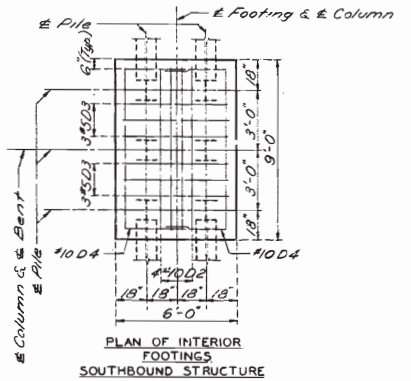
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	104	

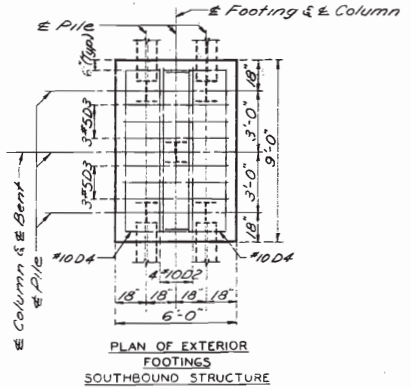
374



INT. BENTS 2 & 3 NORTHBOUND



PLAN OF INTERIOR FOOTINGS
SOUTHBOUND STRUCTURE



PLAN OF EXTERIOR FOOTINGS
SOUTHBOUND STRUCTURE

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 244

ABOUT 3.5 MILES W. OF LADUE

PROJECT NO. I-244-4(25) RTE. I-244 STA. 395 + 40.12

ST. LOUIS **COUNTY**

A-1052

Note: For Section at ℄ Beam and Detail of Const. Joint Key Thru Beam See Sheet No. 4 of 9.

DETAILED Nov. 1963 BY Wilderman, Moore
CHECKED Dec. 1963 BY Fieldhammer

R.W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
315 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

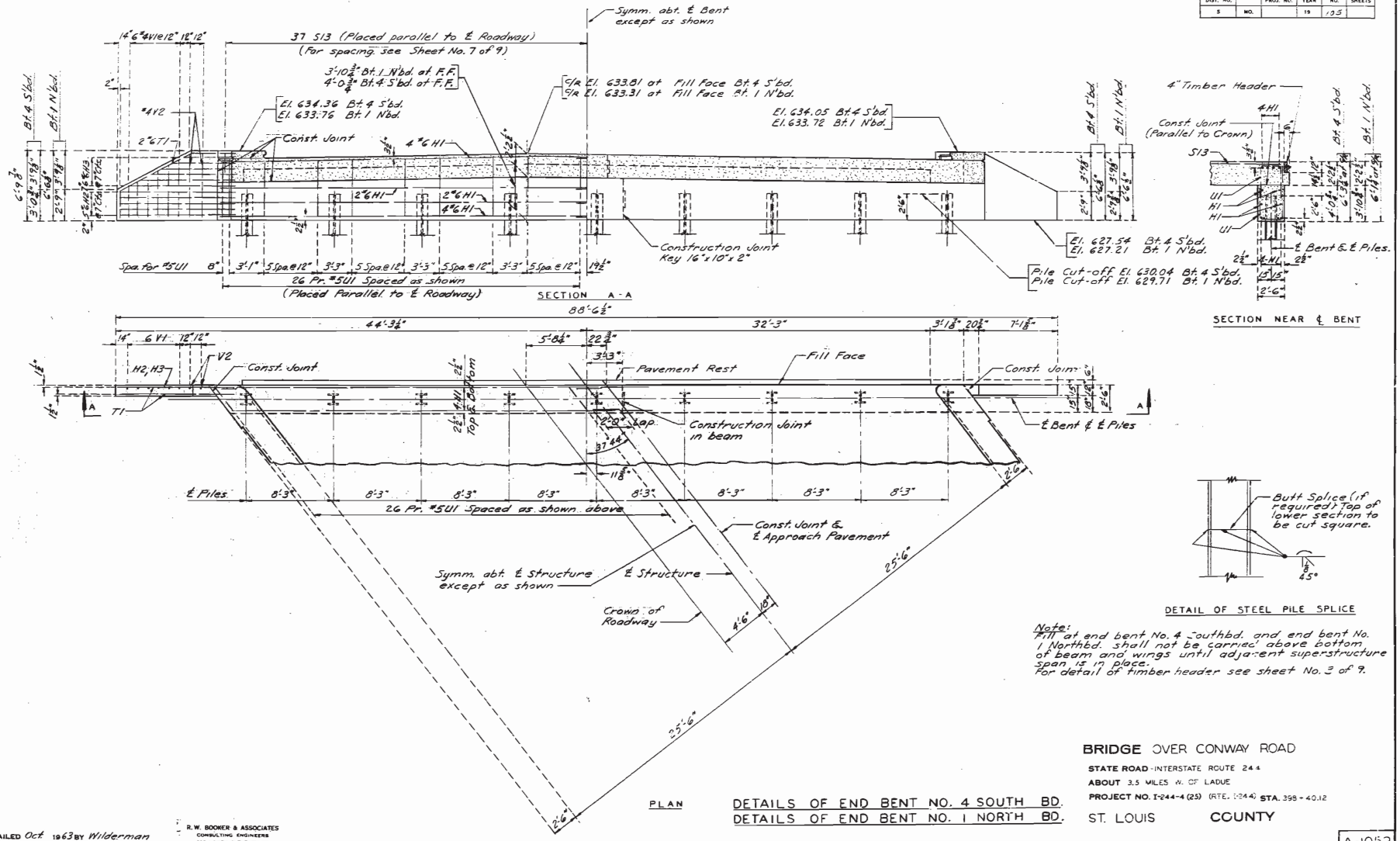
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 9.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	195	

375



Note:
Fill at end bent No. 4 Southbd. and end bent No. 1 Northbd. shall not be carried above bottom of beam and wings until adjacent superstructure span is in place.
For detail of timber header see sheet No. 3 of 9.

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 244

ABOUT 3.5 MILES W. OF LADUE

PROJECT NO. I-244-4 (25) (RTE. 0244) **STA.** 398 + 40.12

ST. LOUIS **COUNTY**

DETAILS OF END BENT NO. 4 SOUTH BD.
DETAILS OF END BENT NO. 1 NORTH BD.

DETAILED Oct. 1963 BY Wilderman
CHECKED Dec. 1963 BY Fieldhammer

R. W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
218 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

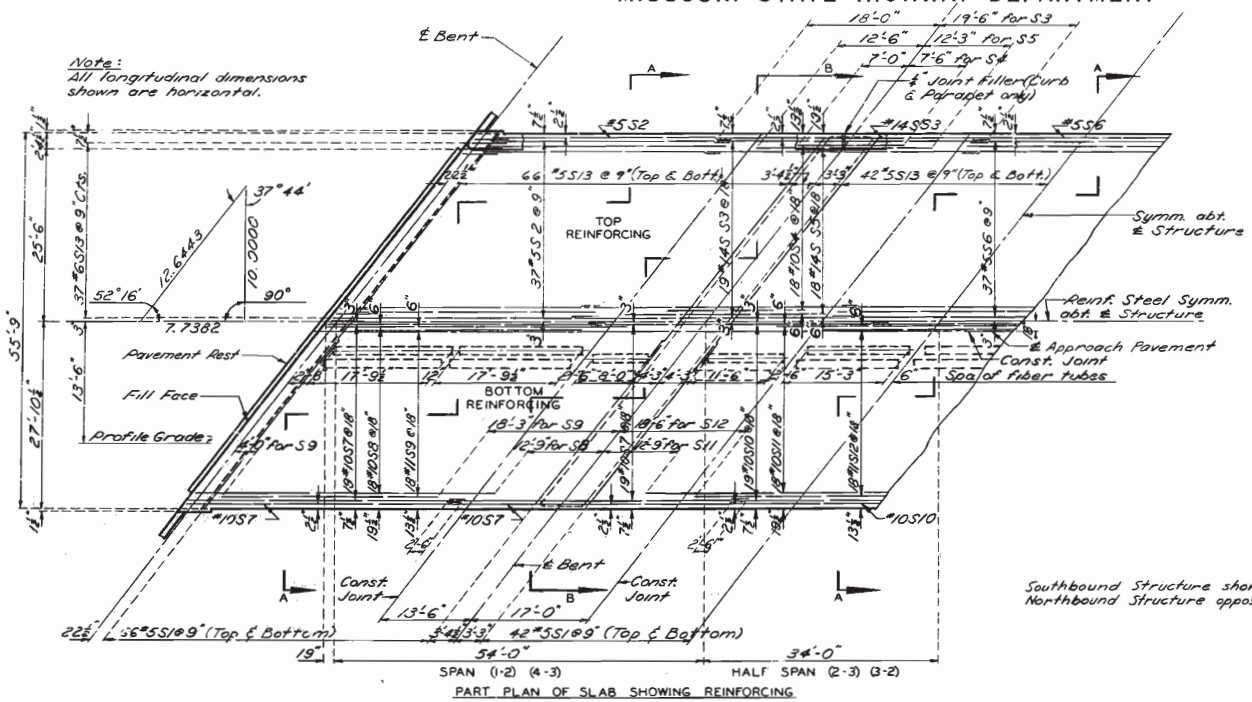
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 9.

A-1052

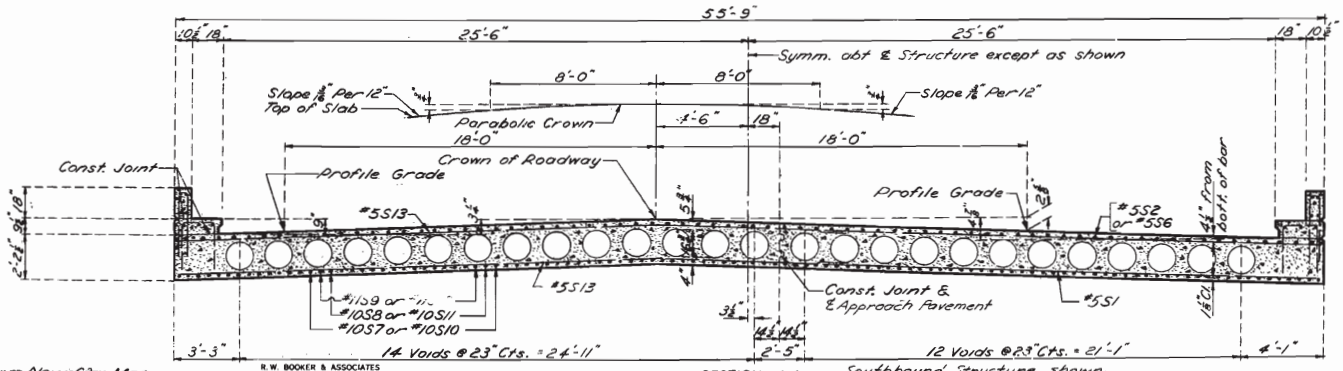
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	1/40	



PART PLAN OF SLAB SHOWING REINFORCING

Southbound Structure shown.
Northbound Structure opposite hand.



SECTION A-A

Southbound Structure shown.
Northbound Structure opposite hand.

Notes:

No longitudinal construction joints will be permitted unless shown on plans.

The contractor shall use an approved oscillating screed type, self-propelled mechanical finishing machine and shall pour and satisfactorily finish the roadway slab at a rate of not less than 28 cubic yards per hour. He shall observe the transverse construction joints shown on plans unless he can demonstrate to the satisfaction of the engineer that he is equipped to pour and satisfactorily finish the roadway slab at a rate which will permit a continuous pouring through some or all of these joints. Finishing machine load will not be permitted on concrete less than 48 hours old.

Fiber tubes for producing voids shall have an outside diameter of 16.7" and a wall thickness of .300" and shall be anchored to joists carrying the floor form at not more than 3'-0" centers. See Special Provisions for metal tube alternate for voids.

Curbs and Parapets to be cast independently of slab. For reinforcement and details of curbs and parapets see sheet No. 9 of 9.

Slab to be built to a uniform depth of 2'-2½".

All reinforcement bar laps 2'-0" except as noted.

For Section B-B see sheet 8 of 9.

For Camber Diagram, Detail of Weepholes in Voids, and Detail of Slab Construction Joint Key see Sheet 8 of 9.

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 2 : 4

ABOUT 3.5 MILES W. OF LADUE

PROJECT NO. I-244-4(25) (RTE. I-244) STA. 398 + 40.12

ST. LOUIS COUNTY

A-1052

DETAILED Nov. 1963 BY Moore

CHECKED Dec. 1963 BY Fieldhammer

R. W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
219 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 9.

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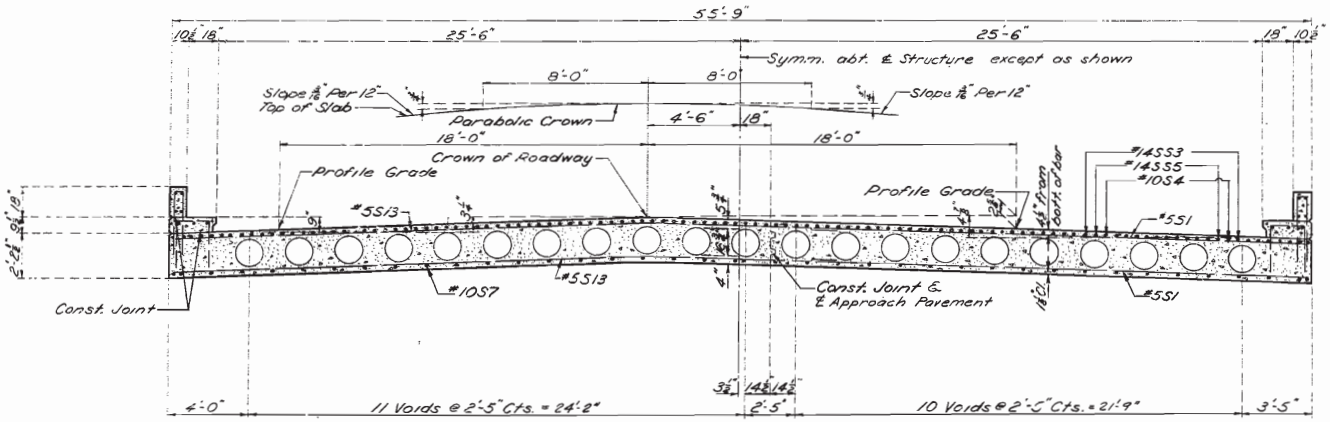
MISSOURI STATE HIGHWAY DEPARTMENT

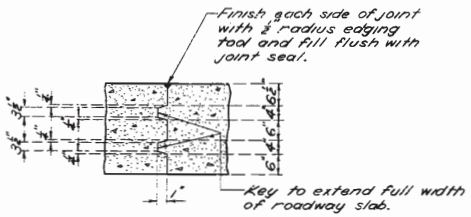
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	107	



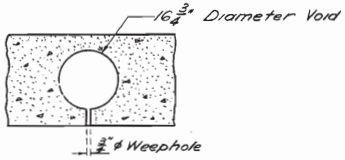
SECTION B-B

Southbound Structure shown.
Northbound Structure opposite hand.

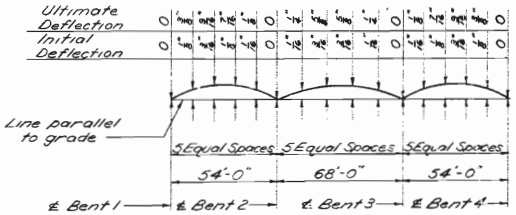
Note:
For location of Section B-B see sheet No. 7 of 9



DETAIL OF SLAB CONSTRUCTION JOINT KEY



Note: One 2" ϕ weephole shall be provided near each end of each void. Weepholes shall be placed in straight lines parallel to bents.



CAMBER DIAGRAM

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 244
ABOUT 3.5 MILES W. OF LADUE
PROJECT NO. I-244-4(25) (RTE. 244) STA. 398 + 40.12
ST. LOUIS COUNTY

A-1052

DETAILED Nov. 1963 BY Moore
CHECKED Dec. 1963 BY Fieldhammer

R.W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
219 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 9.

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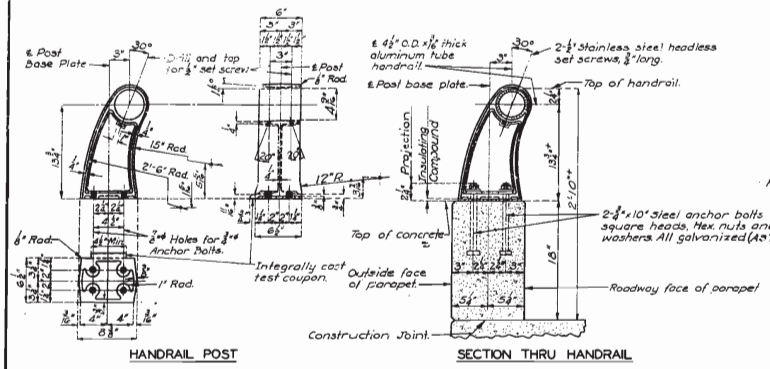
MISSOURI STATE HIGHWAY DEPARTMENT

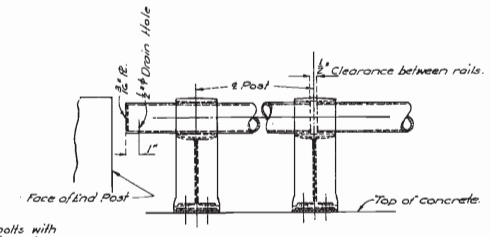
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	108	



HANDRAIL POST

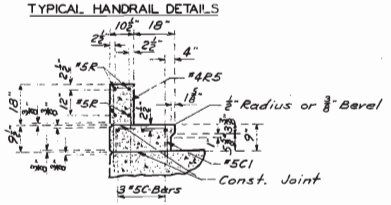
SECTION THRU HANDRAIL

SINGLE TUBE ALUMINUM RAILING



POST RAIL SPLICE OR EXP.

TYPICAL HANDRAIL DETAILS



SECTION THRU CURB & PARAPET

GENERAL NOTES:

All handrail posts shall be set normal to grade.

Aluminum tube handrail shall be bent to conform to vertical and horizontal alignment of parapet.

Aluminum washer shims between top of parapet and post base may be used for adjusting handrail alignment. Maximum thickness of shims to be ½". Where more tilting of post is required for proper alignment, concrete bearing areas shall be ground down.

All parts of handrail, except anchor bolts, nuts, washers, and set screws are to be of aluminum material.

The contract unit price per linear foot of "Bridge Rail" shall include furnishing and erecting the handrail complete with anchor bolts, shims and insulating compound.

All fillets ½" except as noted.

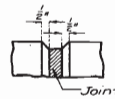
All draft 3° except as noted.

Rail to be fabricated in two or three panel lengths unless otherwise approved.

Omit set screw on side near filled joint in parapet at all expansion posts.

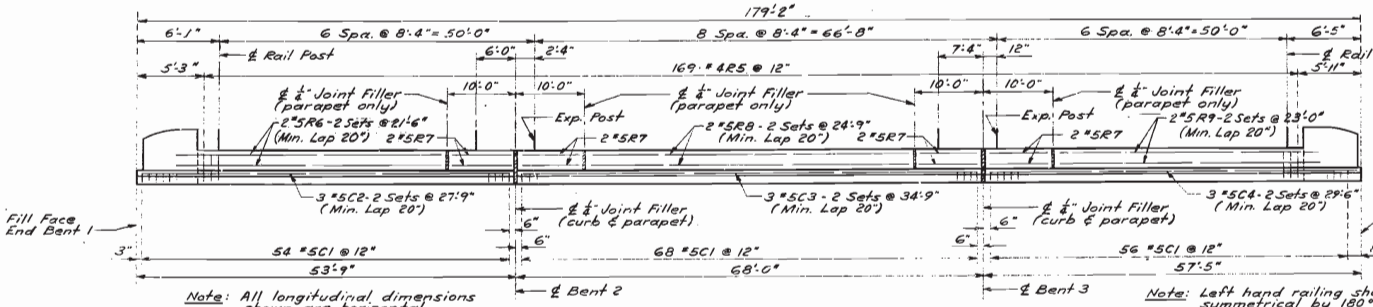
Top of curbs and parapets to be built parallel to grade. Vertical faces of end posts to be vertical.

All exposed edges of end posts and parapets to be beveled ½".



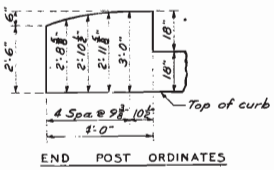
Note: Use bevel as shown for exposed faces of all filled joints.

DETAILS OF BEVEL FOR FILLED JOINTS



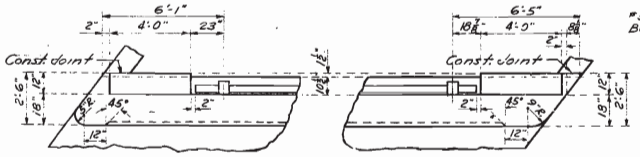
Note: All longitudinal dimensions shown are horizontal. All dimensions shown are along outside face of parapet.

Note: Left hand railing shown, right hand symmetrical by 180° rotation.

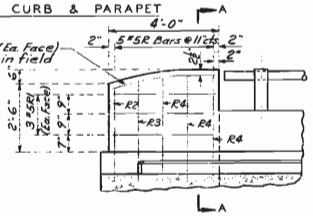


END POST ORDINATES

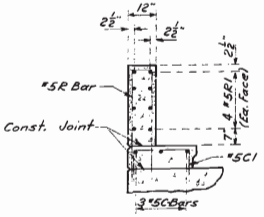
ELEVATION OF CURB & PARAPET



PLAN OF END POSTS



END POST ELEVATION



SECTION A-A

BRIDGE OVER CONWAY ROAD

STATE ROAD - INTERSTATE ROUTE 244

ABOUT 3.5 MILES W. OF LADUE

PROJECT NO. I-244-4(25) (RTE. I-244) STA. 398 + 40.12

ST. LOUIS COUNTY

A-1052

Sheet No. 9 of 9

Drawn Oct. 1963 by Bartels

Checked Dec. 1963 by Fieldhammer

R.W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
818 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

No. 3 | Revise | June 1962

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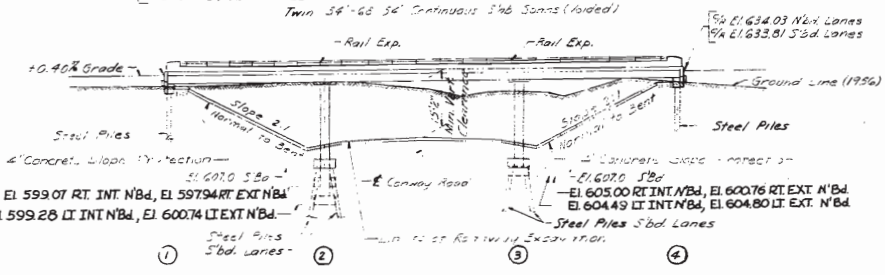
FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD'S ACT SECT. NO.	STATE PROJ. NO.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
S	140		19	1100	



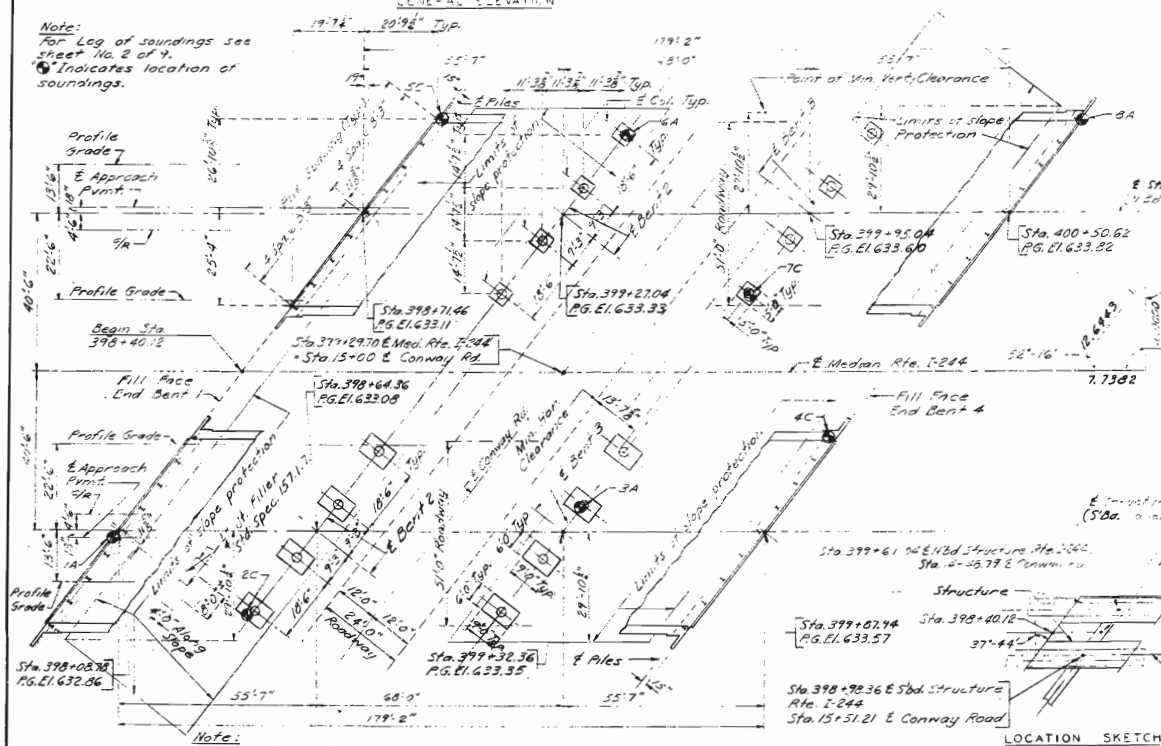
FOOTING AND PILE DATA								
PIER NUMBER		1		2		3		4
LANE		N'Bd	S'Bd.	N'Bd	S'Bd	N'Bd	S'Bd	N'Bd S'Bd.
SUPPORTED ON		Found. Material		Rock		Rock		
PRESS. IN TONS/SQ. FT.		Design Bearing		10.0		10.0		
		Spec. Standard Specification 30.4.2						
PILES - VERTICAL	Pile Type & Size	12BP53	12BP53	12BP53		12BP53	12BP53	12BP53
	Number	9	9	10		22	9	9
	Apex Horiz. Ft.	30	40	3		30	32	40
	Min. Bearing Tons	46	46	46		46	46	46
	Min. Required Tons	46 Power	46 Power	41 Power		41 Power	46 Power	46 Power
	Hammer							
	Spec. Standard Specification			Sec. 3.6				

Note: Footings for piers 1 and 2 on N'bd. Structure were carried down to Elev. 570 on unconfirmed rock or 8' into soft rock or to refusal. Material traces of Jamie. All pile was driven to practical refusal on or into solid rock.

GENERAL NOTES

Design Specifications A.A.S.H.O. 1961
Loading H20-S16-44 or 15# /sq. ft. Future Wearing Surface) Modified 24000# Tandem Axle
Steel Piles A.S.T.M. A36-62T
Reinforcing Steel Shall be 40,000 #/sq. inch. minimum Class B Concrete 2,000 #/sq. inch minimum Class B. Stress 600 #/sq. inch minimum Class B/I prestressed Concrete was Class B/I Prestressed Concrete was Class B
The structure deck was surface sealed. (See Special Provision S.S.)
All reinforcing to reinforcing steel are to centerline bar except where clear distance from face of concrete is indicated.
Welding qualifications & specified on the plans did not conform to Standard Specification 157.2.4.
See Standard Specification 55.3.13 for qualification of welding operators

Note:
For Log of soundings see sheet No. 2 of 9.
Indicates location of soundings.



PLAN

Note: This drawing is not to scale. Follow dimensions.

FINAL QUANTITIES				
Item		Bridge	Approach Pavement	Totals
Class 1 Excavation for Structures	Cu. Yds.	540.5	–	540.5
12" Steel Piles in Place	Lin. Ft.	1,668	–	1,668
12" Steel Pile Cutoffs	Lin. Ft.	~~555~~ 555	–	~~555~~ 555
Class B Concrete	Cu. Yd.	67.2	–	67.2
Class BI Concrete	Cu. Yd.	–	1,531.0	1,531.0
Reinforcing Steel	Lb.	8,920	383,890	386,810
Bridge Rail (Single Tube Type)	Lin. Ft.	–	680	680
Test Holes	Lin. Ft.	32	–	32
Class 1 Excavation below plan	Cu. Yds.	135		135

Note:
Excavation for Structures was carried for as Class 1.
Class 1 Excavation for Structures was computed from the original ground line (1956) or from the lower limits of roadway excavation, whichever is lower regardless of the sequence of operations and the method of removal.
All concrete and reinforcing steel in End Bents and above footings in Intermediate Bents is included in Superstructure quantities.
Concrete protection on bridge seats at end bents was included under roadway items. Provide for filler Standard Specification 157.1.7) between slope protection pavement and intermediate bents.

LOCATION SKETCH

SUBMITTED BY

REGISTERED PROFESSIONAL ENGINEER
MISSOURI NO. E-5777

B.M. 634.43 Chiseled Square On Inside Wing Wall Bent No. 4 N.B.L.
B.M. 633.67 Chisled Square On Inside Wing Wall Bent No. 1 S.B.L.

BRIDGE OVER CONWAY ROAD

STATE ROAD INTERSTATE ROUTE 244
ABOUT 1.5 MILES W. OF LADUE
PROJECT NO. I-244-4(25) (RTE 1244) STA. 398+40.12

ST LOUIS COUNTY

DESIGNED Nov. 1963 BY	Madinger	R. W. BOOKER & ASSOCIATES CONSULTING ENGINEERS 213 NORTH ELEVENTH ST. ST. LOUIS 1, MISSOURI
DETAILED Nov. 1963 BY	Wilderman	
CHECKED Dec. 1963 BY	Fieldhammer	

SUBMITTED BY ____ DATE 4/24/1964
APPROVED BY ____ DATE 4/24/1964

REVISED

STD. 54.00
A-1052

Sheet No. 1A of 2

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FINAL PLANS

FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	10A	

50 #5U2 (Double) Spa. as shown (Placed parallel to ℄ Roadway)

Spacing for #5U2 — 7 Spa. 8 1/2" 9 Spa. @ 6" 11 Spa. 8 1/2" 10 Spa. @ 6" 12" 10 Spa. @ 6" 4 Spa. @ 6"

Symm. abt. ℄ Bent except as shown

15'-9" for G3

Elev. 633.54 at ℄ Bent 2
Elev. 633.81 at ℄ Bent 3

Const. Joint

10 #11G1 — 3 #10G3 — 10 #11G2

Use 3/4" Bevel Strip 3" from end of drop panel.

℄ 9 #10G5 — ℄ 9 #10G4

Const. Joint Key 10"x10"x2"

℄ Column

9'-3" — 18'-6"

Keyed Const. Joint

Bt. 2 27'-3 3/4" #3VII @ 12" Crs. — Bt. 3 24'-3" #3VII @ 12" Crs.

Bt. 2-8 #9V3, Bt. 3-8 #9V7 — Bt. 2 27'-3 3/4", Bt. 3 23'-8 1/4"

Bt. 2-8 #10V4, Bt. 3-8 #10V8 — Bt. 2 29'-1 1/2", Bt. 3 24'-2 1/4"

Bt. 2-8 #10V5, Bt. 3-8 #10V8 — Bt. 2 32 #3VII @ 12" Crs., Bt. 3 24 #3VII @ 12" Crs. — Bt. 2 23'-8 1/2", Bt. 3 26'-5 1/2"

Bt. 2-8 #9V6, Bt. 3-8 #9V7 — Bt. 2 32 #3VII @ 12" Crs., Bt. 3 24 #3VII @ 12" Crs. — Bt. 2 27'-8 7/8", Bt. 3 30'-3 1/2"

8 #5D1 — 8 #5D1

El. Bt. 2 600.74
El. Bt. 3 604.80

El. Bt. 2 599.28
El. Bt. 3 604.49

SECTION A-A

Const. Joint Key 10"x10"x2"

El. Bt. 3 605.00 — El. Bt. 3 600.76

Const. Joint Key 10"x10"x2"

El. Bt. 2 599.07 — El. Bt. 2 597.94

℄ Pile — ℄ Footing & ℄ Column

6" (Typ.)

3 #5D3 — 3 #5D3

#10D4 — #10D4

8 #10D2

18" 18" 18" 18" — 6'-0"

18" — 3'-0" — 3'-0" — 3'-0" — 9'-0"

℄ Column & ℄ Bent — ℄ Pile

PLAN OF INTERIOR FOOTINGS SOUTHBOUND STRUCTURE

℄ Pile — ℄ Footing & ℄ Column

6" (Typ.)

3 #5D3 — 3 #5D3

#10D4 — #10D4

8 #10D2

18" — 3'-0" — 3'-0" — 3'-0" — 9'-0"

℄ Column & ℄ Bent — ℄ Pile

PLAN OF EXTERIOR FOOTINGS SOUTHBOUND STRUCTURE

50 #5U2 (Double) Spaced as shown above

37°44'

5'-0" — 2'-6" 2'-6"

10 #11G1 (Top) Spaced with 3 #10G3

#9V3 or #9V7 — 6 R. (Typ.)

9 #10G5 (Short bars) Evenly Spaced

3 #10G3 (Top) Spaced with 10 #11G1

#3VII — #10V4 or #10V8

9 #10G4 (Short bars) Evenly Spaced

10 #11G2 (Top) Spaced with 3 #10G3

℄ Bent — ℄ Column

2'-6" — 5'-0" — 2'-6"

9'-3" — 18'-6" — 7'-2 1/4" — 35'-3"

Symm. abt. ℄ Bent except as shown

Const. Joint ℄ ℄ Approach Pvmt.

18" — 4'-6"

℄ Structure — Crown of Roadway

PLAN

NOTE: * All Footing Dimensions Shown Are Correct With The Exception Of:
Lt Int Bt 2 N'Bd. 5'-6" X 5'-0"
Rt Ext Bt 3 N'Bd. 5'-10" X 5'-0"

Note: For Section of ℄ Beam and Detail of Const. Joint Key Thru ℄ Beam See Sheet No. 4 of 9.

INT. BENTS 2 & 3 NORTHBOUND

BRIDGE OVER CONWAY ROAD

STATE ROAD INTERSTATE ROUTE 244

ABOUT 7.8 MILES W. OF LADUE

PROJECT NO. I-244-4(28) STATE 244-4 STA. 346+00.4

ST. LOUIS COUNTY

FINISHED FINAL PLANS 1A-052

DETAILED Nov. 1963 BY Widerman, Moore

CHECKED Dec. 1963 BY Fieldhammer

R. W. BOOKER & ASSOCIATES
CONSULTING ENGINEERS
219 NORTH ELEVENTH ST.
ST. LOUIS 1, MISSOURI

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5A of 2.

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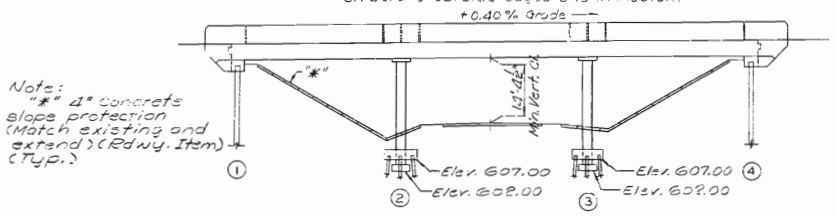
FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	77	

SEC. 15 TWP. 45N RGE. 5E

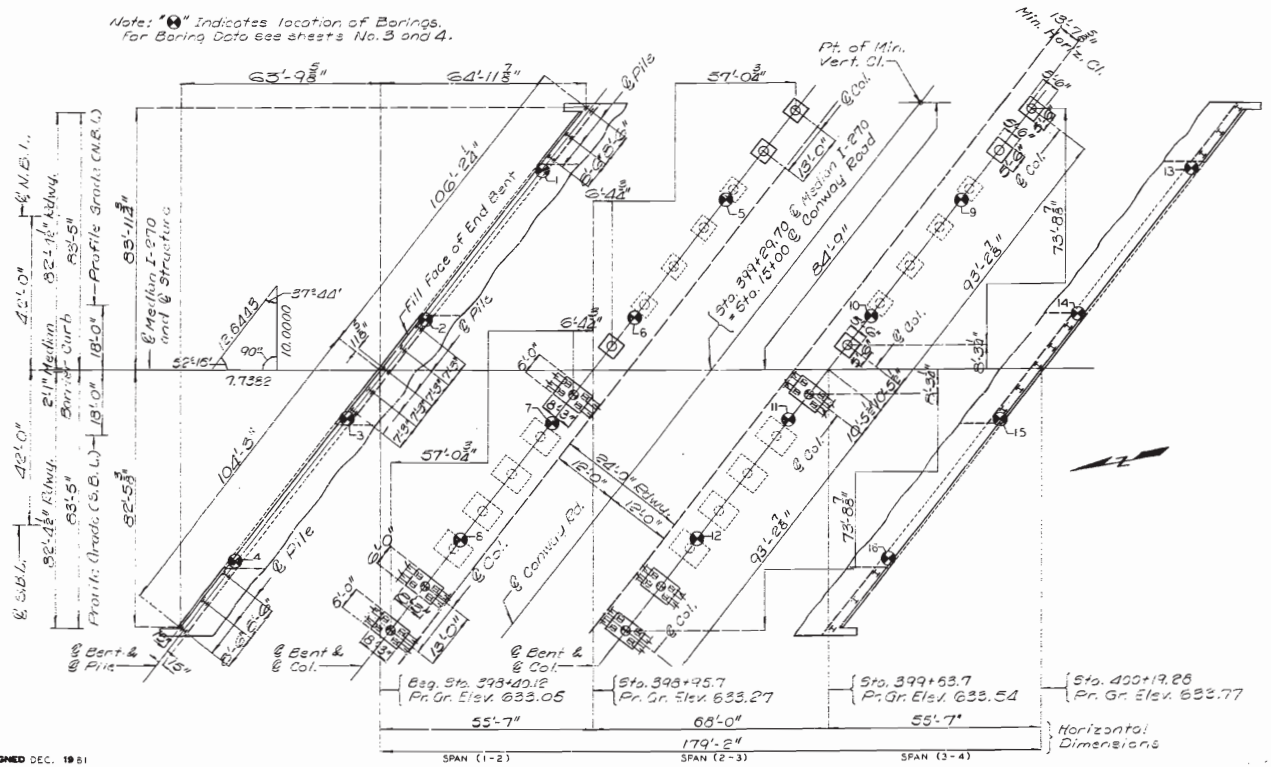
U.I.P. Exist. (54'-68'-54') Cont. Voided Conc. spans and widen structure outside edges and in median.



Note: "*" 4" Concrete slope protection (Match existing and extend) (Rdwy. Item) (Typ.)

GENERAL ELEVATION

Note: "⊕" Indicates location of Borings. For Boring Data see sheets No. 3 and 4.



PLAN

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 15.

GENERAL NOTES:

Design Specifications:
A.A.S.H.T.O. - 1977 and Interims thru 1982
Load Factor Design: Substructure

Design Loading:
HS20-44 No Future Wearing Surface
Modified 24,000 # Tandem Axle
Earth 120 #/cu. ft., Equivalent Fluid Pressure 30 #/cu. ft.

Design Unit Stresses:
Class B Concrete (Footings) f'c = 3,000 psi
Class B1 Concrete (Safety Barrier Curb, Median Barrier Curb, Columns and End Bents below lower Const. Js) f'c = 4,000 psi
Class B2 Concrete (Slab) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi
Steel Pile Fb = 9,000 psi

Joint Filler: All joint filler shall meet the requirement of Std. Spec. 1057.2.4.

Reinforcing Steel: Minimum clearance to reinforcing steel shall be 1½" unless otherwise shown.

Construction Clearance: Falsework over existing lanes shall be constructed with a minimum vertical clearance of 13'-6" from crown of existing lanes and a minimum lateral clearance of 28'-0" centered on existing lanes.

Traffic Maintained: Traffic over structure to be maintained during construction.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.

Note:
For Estimated Quantities see Sht. No. 4.
For Pile and Footing Data see Sht. No. 4.

B.M. Elev. 633.21 # A1052 Const. BM "D" N.W. Corner of N.W. Wing W.S. S.B.L. Br. A-1052

BRIDGE OVER CONWAY ROAD
STATE ROAD FROM RTE. 40 TO RTE. 340
ABOUT 0.4 MILE NORTH OF RTE. 40
PROJECT NO. IR-270-5(12) **STA.** 398+40.12
JOB NO. 6-1270-4222 **RTE.** I-270
ST. LOUIS **COUNTY**
DATE JUNE 28, 1984

STD.	
STD. 911.60	
STD. 706.35	
A-1052R	

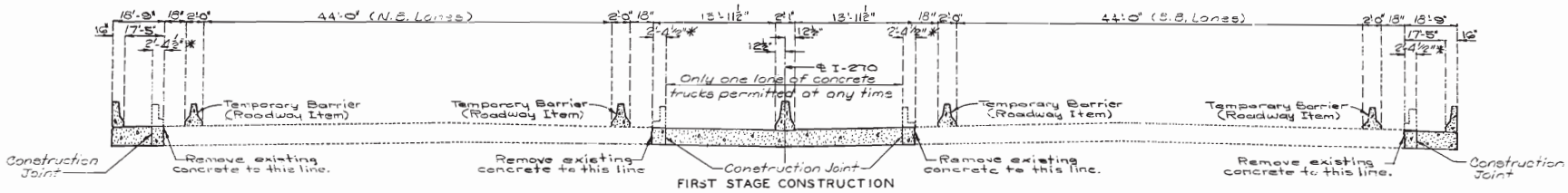
DESIGNED DEC. 1981
DETAILED FEB. 1982
CHECKED MAY 1984

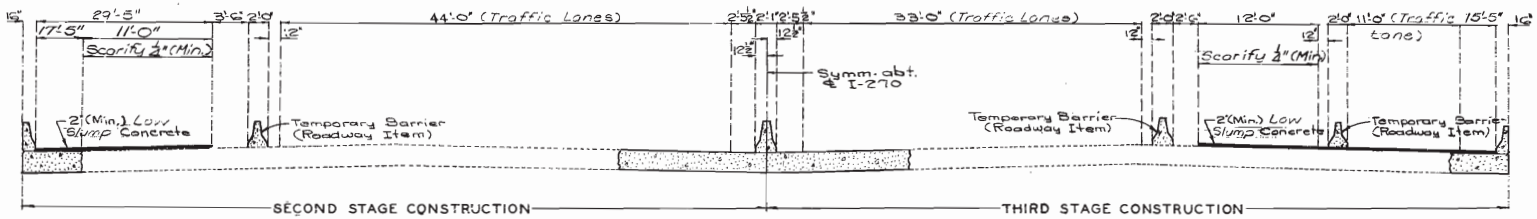
429

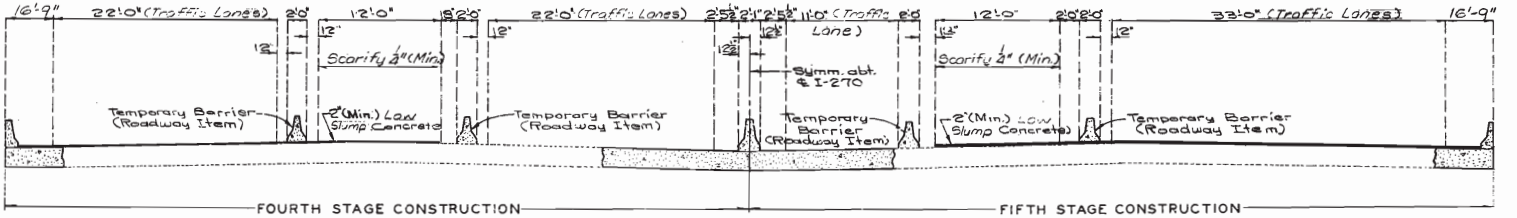
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	78	

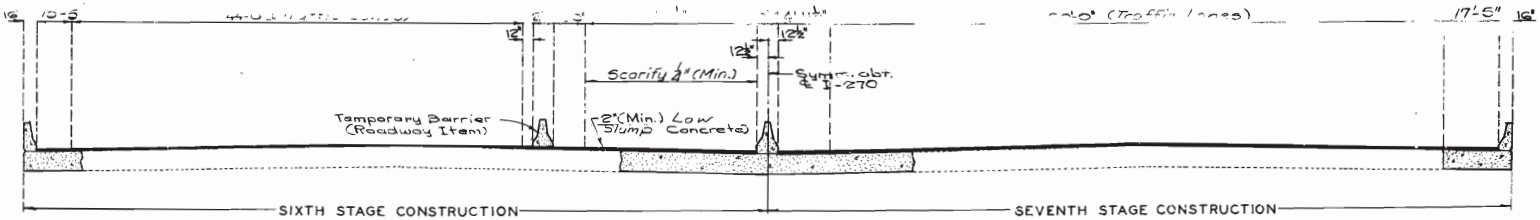
Note:
Release forms before Closure Pour. Closure pours shall be placed before curbs.

Note:
"*" Closure Pour (See Special Provisions).









4-30

DETAILED SEPT. 1955
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

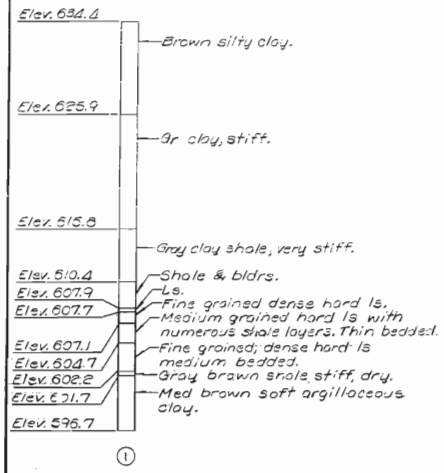
Sheet No. 2 of 15.

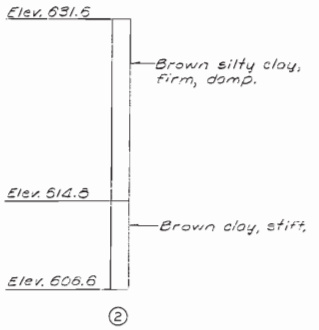
ST. LOUIS COUNTY

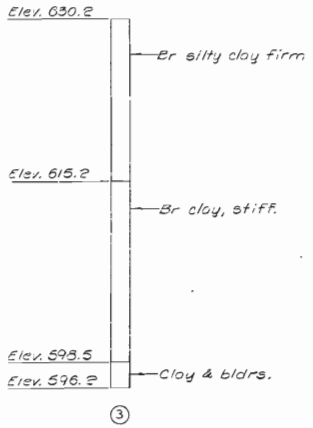
A-1052R

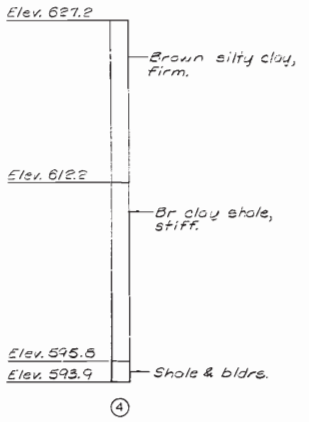
Note : For location of Borings see Sht. No. 1
For additional Boring data see Sht. No. 4.

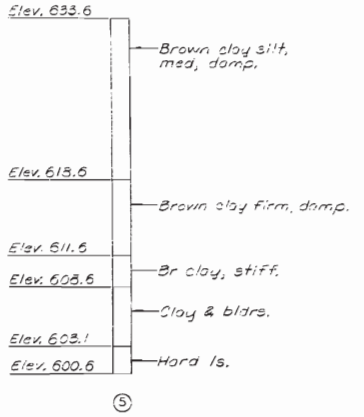
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	79	

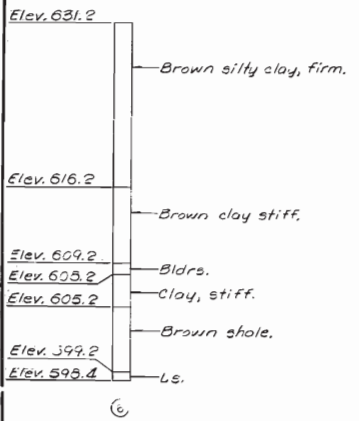


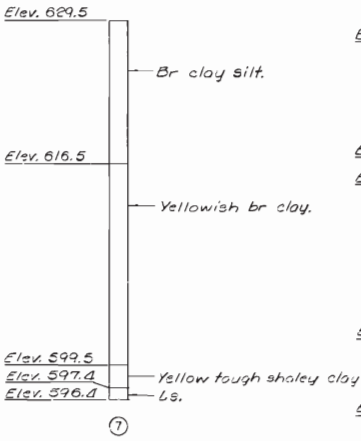


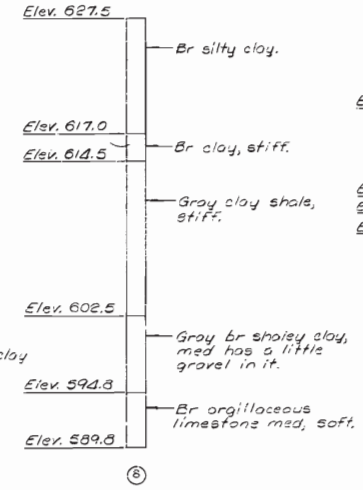


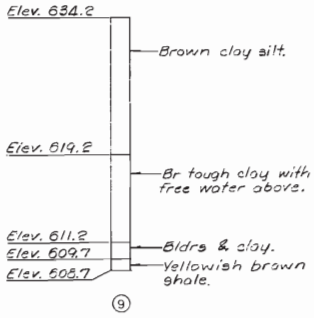


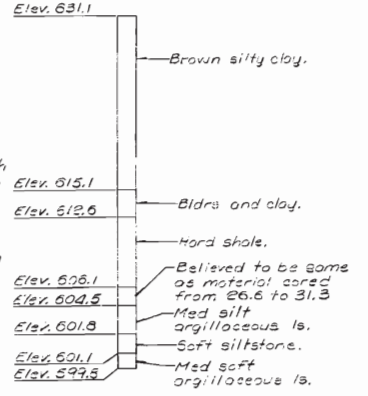












437

DETAILED Feb. 1982
CHECKED May 1982

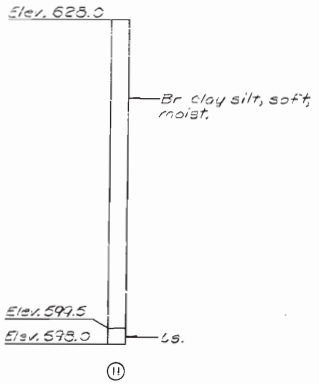
Note: This drawing is not to scale. Follow dimensions.

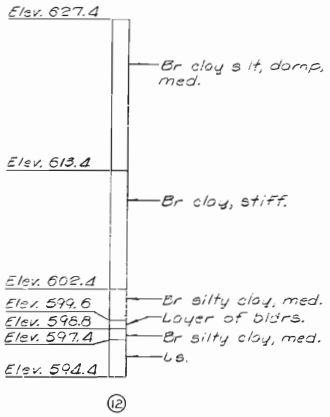
Sheet No. 3 of 15.

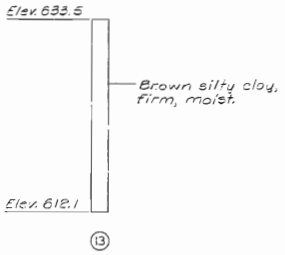
ST. LOUIS COUNTY

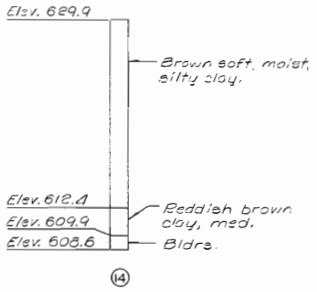
A-1052R

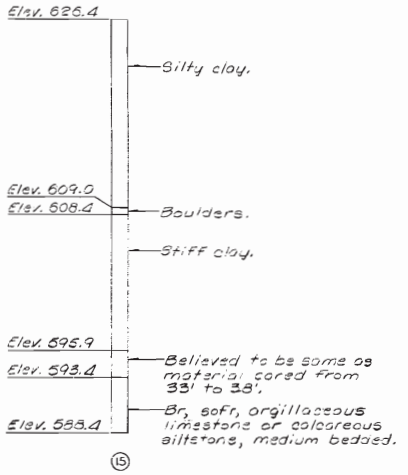
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	80	

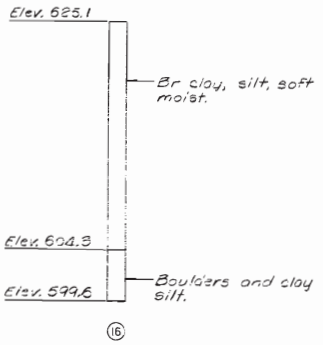












ESTIMATED QUANTITIES				
ITEM		SUBSTR.	SUPERSTR.	TOTAL
Special Work	Lump Sum			1
Class 1 Excavation	Cu. Yd.	400		400
Structural Steel Piles (10 In.)	Lin. Ft.	933		933
Class B Concrete	Cu. Yd.	53.2		53.2
Class B1 Concrete	Cu. Yd.	98.3		98.3
Class B2 Concrete	Cu. Yd.		769.6	769.6
Safety Barrier Curb	Lin. Ft.		379	379
Median Barrier Curb	Lin. Ft.		178	178
Repairing Concrete Deck (Half-Soling)	Sq. Ft.		914	914
Low Slump Concrete Wearing Surface	Sq. Yd.		3280	3280
Reinforcing Steel (Grade 60)	Lb.	11,420	109780	121,150
Reinforcing Steel (Epoxy Coated)	Lb.		93120	93120

Note:
All reinforcement in the end bents is included with superstructure quantities.
All concrete above lower construction joint in end bents is included with superstructure quantities.

PILE AND FOOTING DATA												
BENT		1			2		3		4			
		LT.	CTR.	RT.	CTR.	RT.	CTR.	RT.	LT.	CTR.	RT.
BEARING PILE	Pile Type and Size	HP10x42			HP10x42		HP10x42		HP10x42		
	Number	3	5	3	5	10	5	10	3	5	3
	Approximate Length Ft.	23	27	35	11	11	11	11	18	30	30
	Design Bearing Tons	34	35	34	48	46	48	46	34	35	34
	Hammer Energy Required Ft. Lbs.	7700	7800	7700	10800	10400	10800	10400	7700	7800	7700
SPREAD FOOTINGS	Foundation Material				Rock		Rock				
	Design Bearing Tons/Sq.Ft.				10.0		10.0				

Note:
Minimum energy requirement of hammer based on plan length and design bearing value of piles.
All pile shall be driven to practical refusal.

4332

DETAILED Feb. 1982
CHECKED May 1984

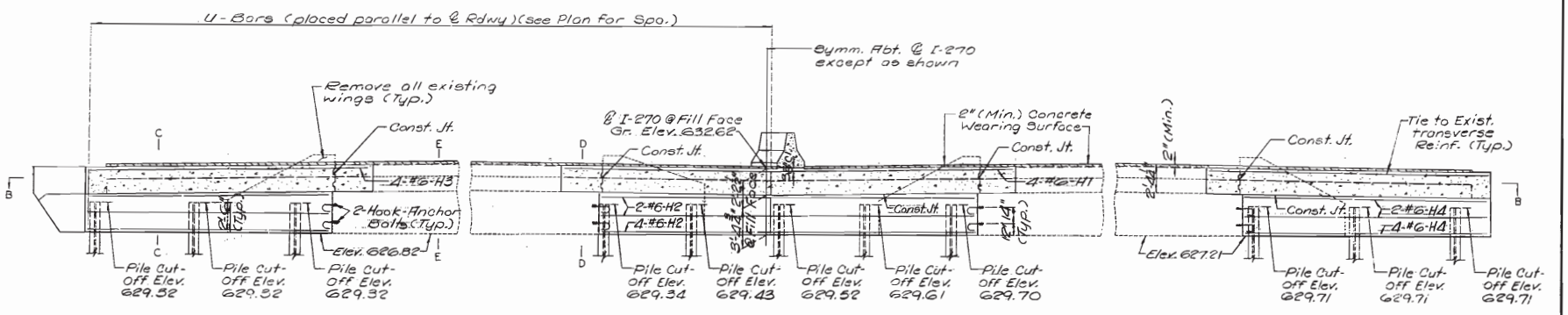
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 15.

ST. LOUIS COUNTY

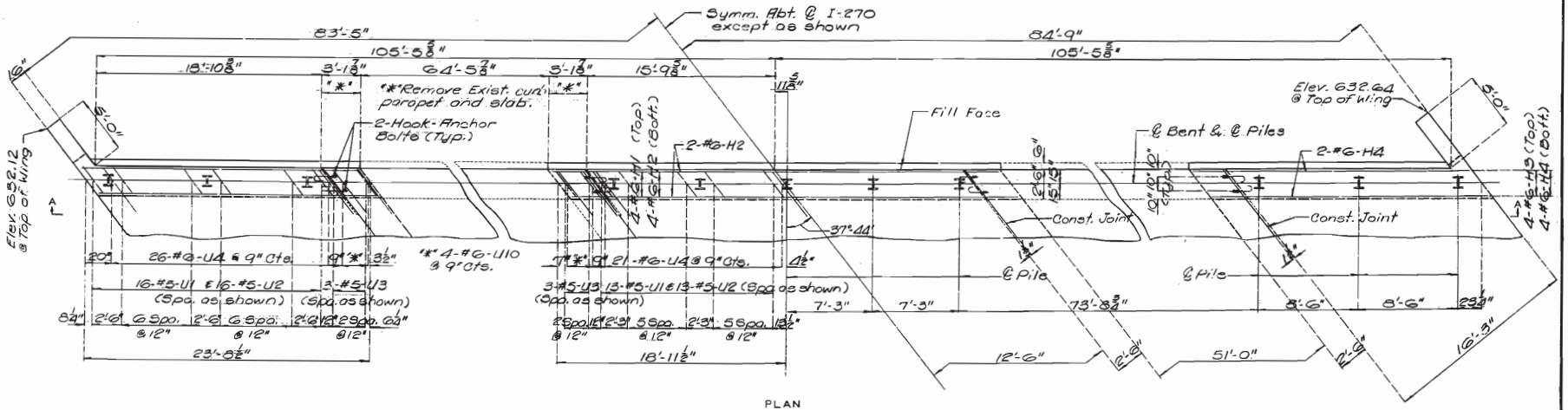
A-1052R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	MO.		19	81	



SECTION A-A

Note:
For Details of Steel Pile Splice see Sht. No. 6.
For Details of Hook Anchor Bolts see Sht. No. 6.
For Sections B-B, C-C, D-D and E-E see Sht. No. 6.
For Elevation of Wings see Sht. No. 6.
For Details of Slab Const. Jt. Key see Sht. No. 8.



PLAN

DETAILED Dec. 19 83
CHECKED May 19 84

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF END BENT NO. 1

Sheet No. 5 of 15.

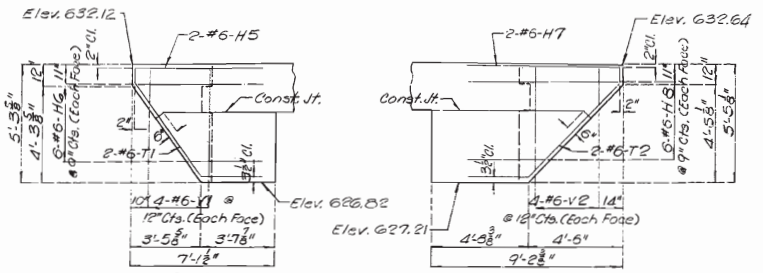
ST. LOUIS COUNTY

A-1052R

433

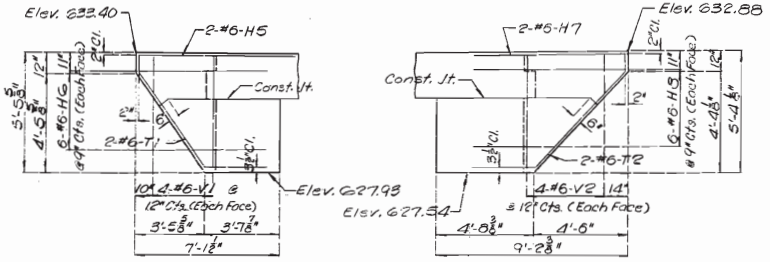
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	MO.		19	82	

4-34



ELEV. RT. WING END BT. NO. 1

ELEV. LT. WING END BT. NO. 1

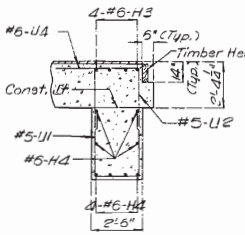


ELEV. LT. WING END BT. NO. 4

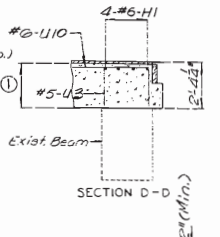
ELEV. RT. WING END BT. NO. 4

Note: For location of Section C-C see Sht. No. 5 and Sht. No. 9.

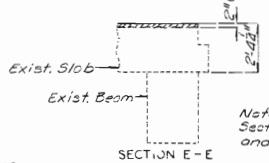
Note: For location of Section D-D see Sht. No. 5 and Sht. No. 9.



SECTION C-C

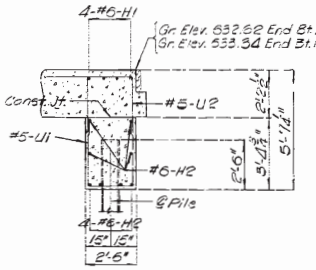


SECTION D-D

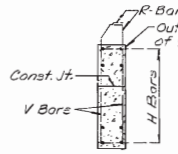


SECTION E-E

Note: For location of Section E-E see Sht. No. 5 and Sht. No. 9.



SECTION At ℄ OF END BTS.



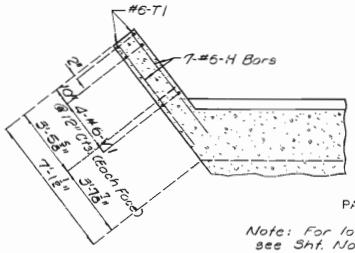
TYP. SECTION THRU WING

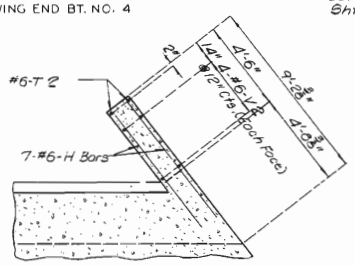
Note: At the option of the contractor one of the following anchor systems may be substituted for the self drilling expansion system noted on the plans.

1. Molly Parabond Capsule Anchors
2. Hilti HVA Adheaive Anchors

These optional anchor systems shall be installed according to the manufactures specifications with the following exception; A straight 3/4" ø Grade 60 reinforcing bar, projecting 15" into the new concrete, may be substituted for the 2'-0" anchor bolt noted on plans.

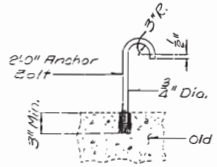
Note: For Reinf. of Barrier curb not shown see Sht. No. 13.





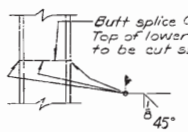
PART SECTION B-B

Note: For location of Section B-B see Sht. No. 5 and 9.



Note: Anchors shall be of the self drilling expansion type, made of casehardened and drawn carburized steel, with self cutting annular broaching grooves.
Cost of furnishing and installing hook anchor bolt assemblies shall be included in contract unit price for concrete.

HOOK ANCHOR BOLT DETAILS



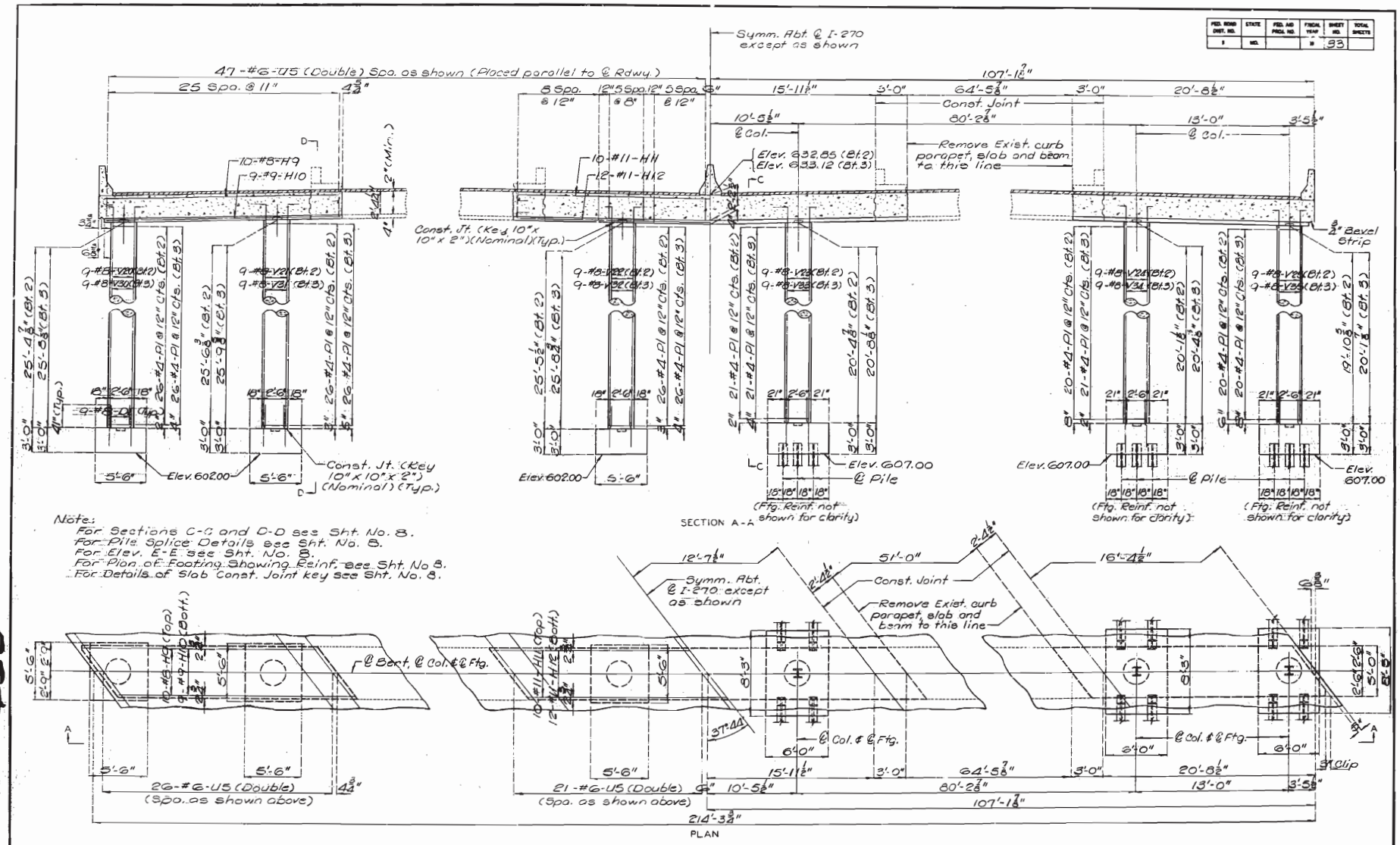
Note ①:
Pour slab 2'-2 5/8" deep in First Stage Construction. Scarify to 2'-2 1/4" deep in Sixth Stage Construction.

DETAILED Jan. 1982
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

ST. LOUIS COUNTY

A-1052R



435

DETAILED Dec. 1953
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

PART DETAILS OF INT. BENTS NO. 2 & 3

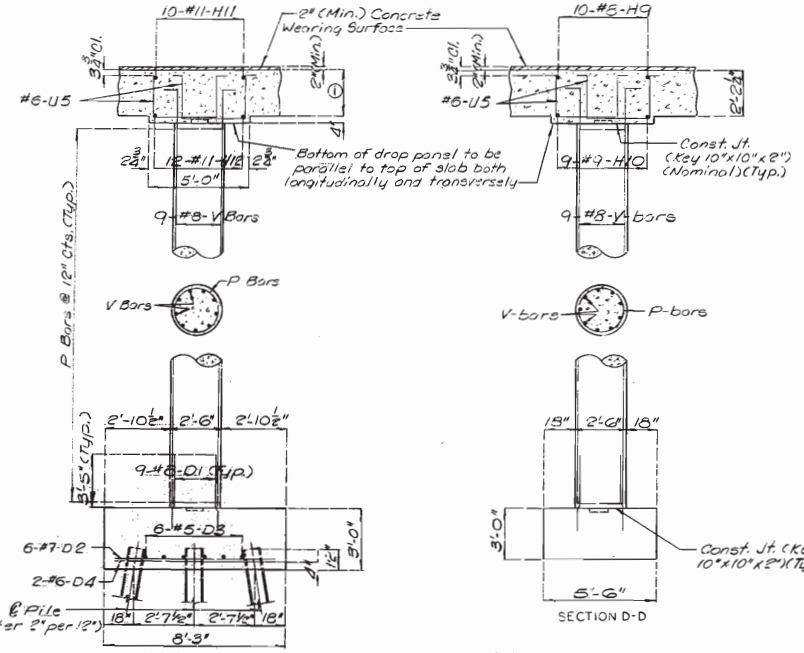
Sheet No. 7 of 15.

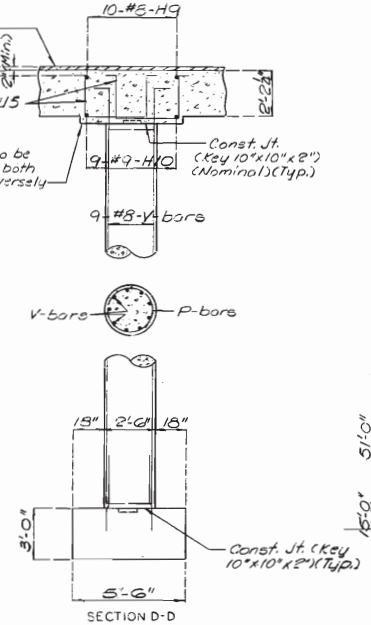
ST. LOUIS **COUNTY**

A-1052R

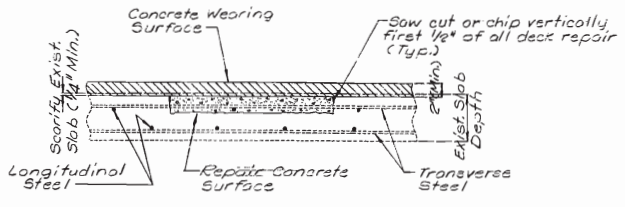
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	84	

4336

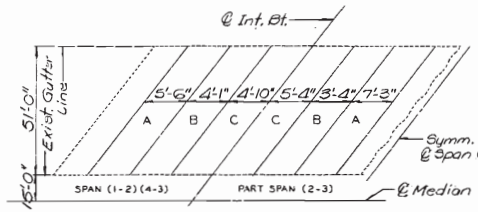




Note ①:
Pour slab to 2'-2½" deep in First Stage Construction.
Scarify to 2'-2½" deep in Sixth Stage Construction.



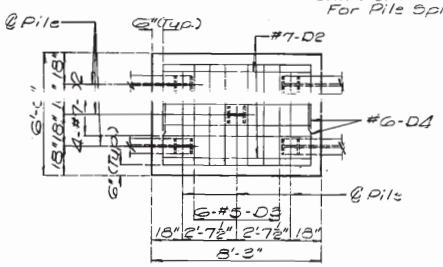
DECK REPAIR (HALF-SOLED AREA)
(TYP. SECTION THRU EXIST. SLAB NEAR ℄ SPAN)



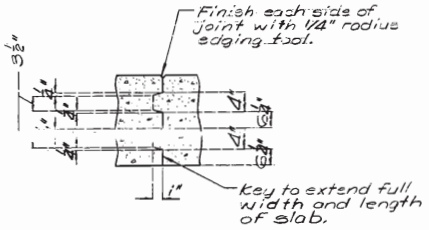
PART PLAN OF SLAB
(N.B.L. SHOWN S.B.L. SIMILAR)
HALF-SOLING SEQUENCE

Note:
Any concrete removal for half-sole repair in areas designated A, B or C shall be repaired in alphabetical order. (See Special Provisions)
Care shall be taken during deck repair to maintain structural integrity of bridge.
Any repair in the remainder of the bridge that is within 4'-0" of adjacent Zone A shall be completed before removing old concrete in Zone A.

Note:
For Location of Section C-C see Sht. No. 7.
For Location of Section D-D see Sht. No. 7.
For Pile Splice Details see Sht. No. 6.



PLAN OF FOOTING SHOWING REINF.
(TYP. FOR S.B.L. ONLY)



DETAILS OF SLAB CONSTRUCTION
JOINT KEY

DETAILED Feb. 1982
CHECKED May 1984

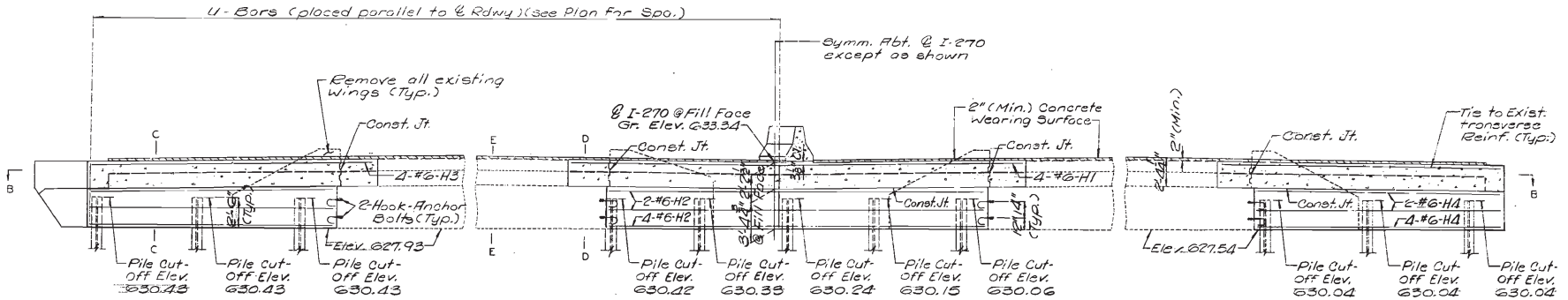
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 15.

ST. LOUIS COUNTY

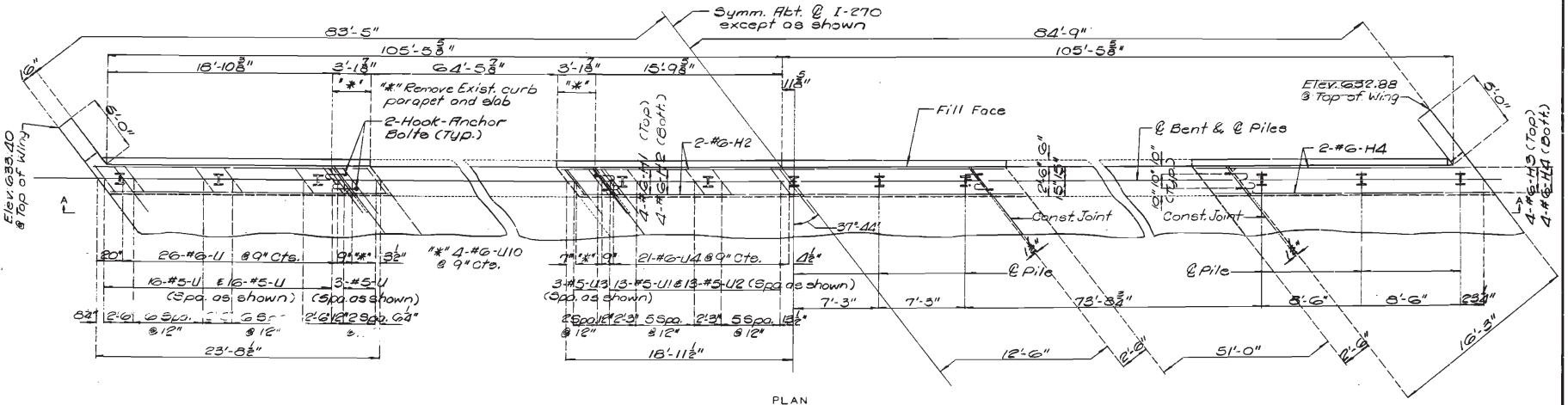
A-1052R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	85	



SECTION A-A

Note:
For Details of Steel Pile Splice see Sht. No. 6.
For Details of Hook Anchor Bolts see Sht. No. 6.
For Sections B-B, C-C, D-D and E-E see Sht. No. 6.
For Elevation of Wings see Sht. No. 6.
For Details of Slab Const. Joint key see Sht. No. 8.



PLAN

4137

DETAILED Dec. 19 83
CHECKED May 19 84

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF END BENT NO. 4

Sheet No. 9 of 15.

ST. LOUIS **COUNTY**

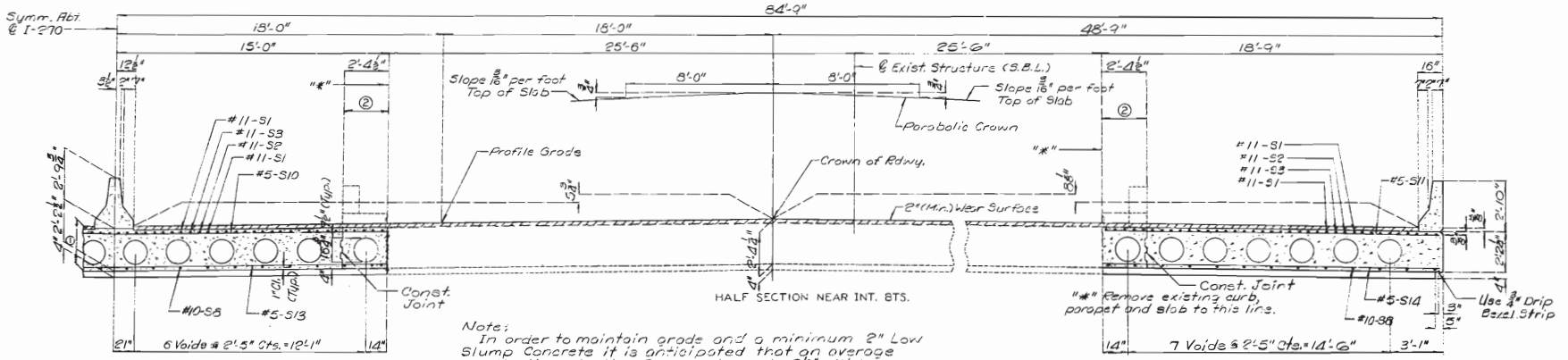
A-1052R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	86	

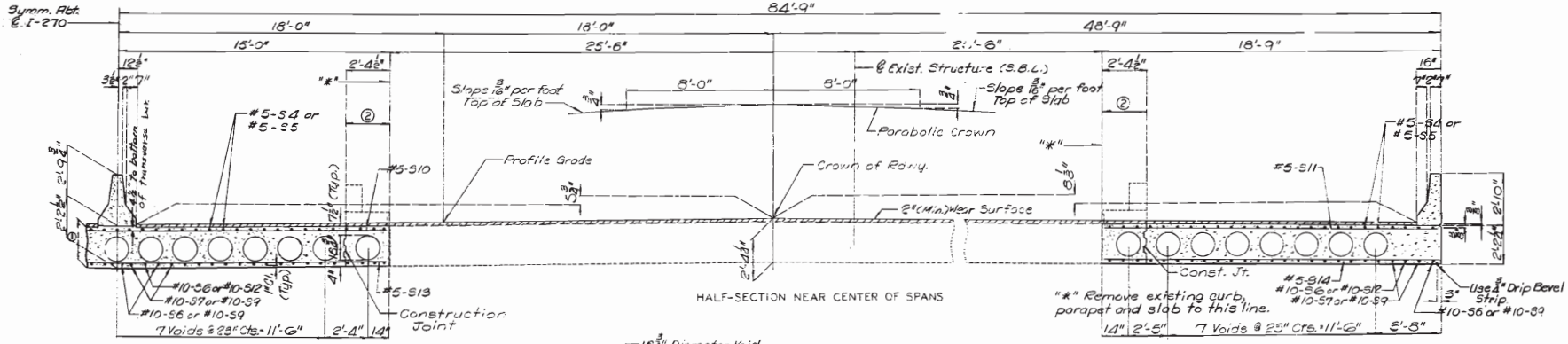
438

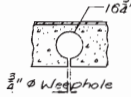
Note ①:
Pour slab 2'-2½" deep in First Stage Construction.
Scarify to 2'-2½" deep in Sixth Stage Construction

Note ②:
Closure Pour (See Special Provisions). Release forms before closure pour is placed. Closure pours shall be placed before curbs.



Note;
In order to maintain grade and a minimum 2" Low Slump Concrete it is anticipated that an average application depth of approximately 2½" will be necessary. No payment will be allowed for additional labor, materials or equipment required for this necessary minimum and/or variable depth of Low Slump Concrete.





Note: One ¾" ø weephole shall be provided near each end of each void. Weepholes shall be placed in straight lines parallel to bents.

DETAIL OF WEEPHOLE IN VOIDS

Note: For Part Plan of Slab see Sht. Nos. 11 & 12.
For Details of Slab Const. Joint Key see Sht. No. 6.

DETAILED Feb. 1982
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

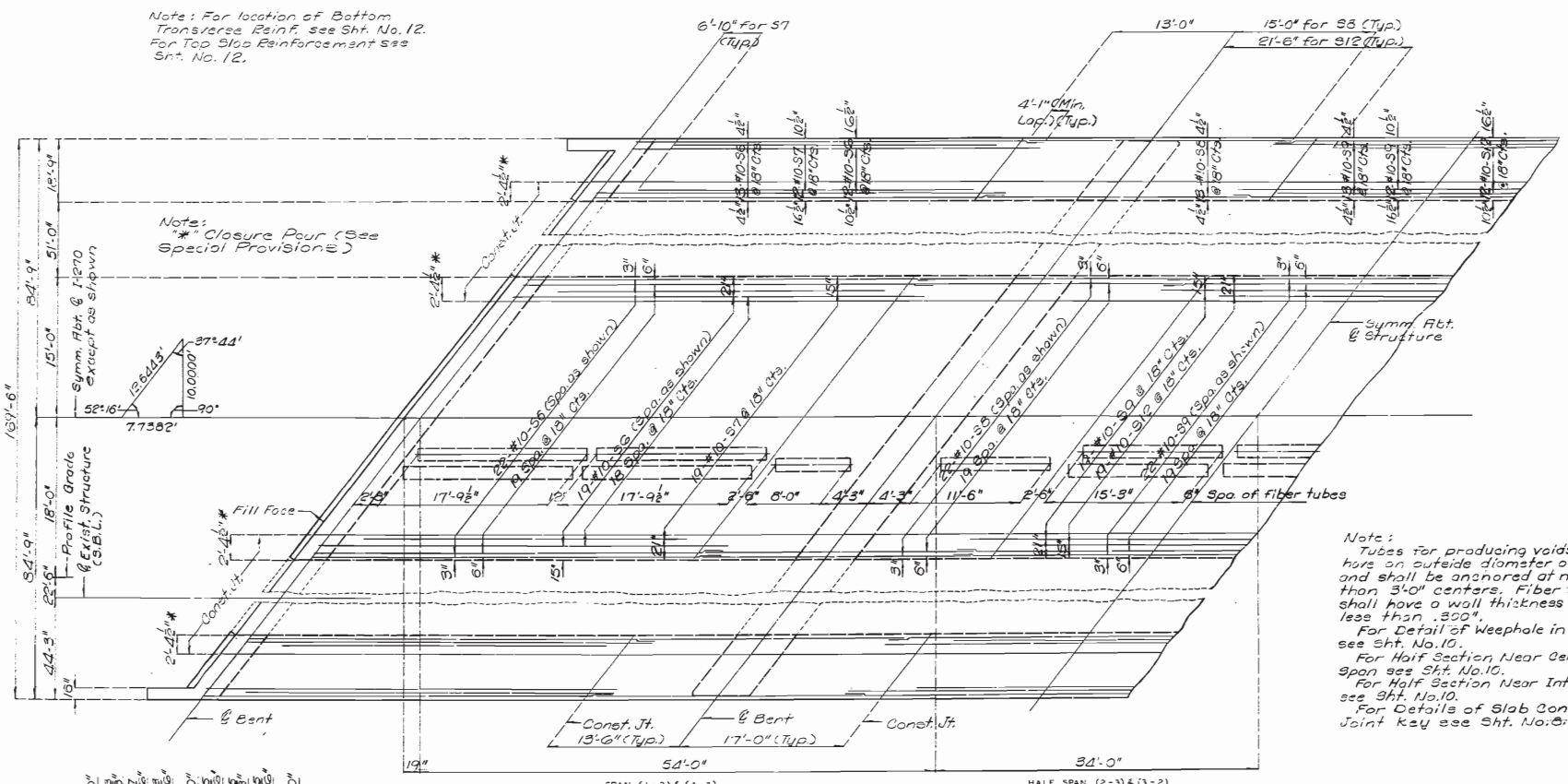
Sheet No. 10 of 15.

ST. LOUIS **COUNTY**

A-1052R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	87	

439



DETAILED Feb. 1982
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

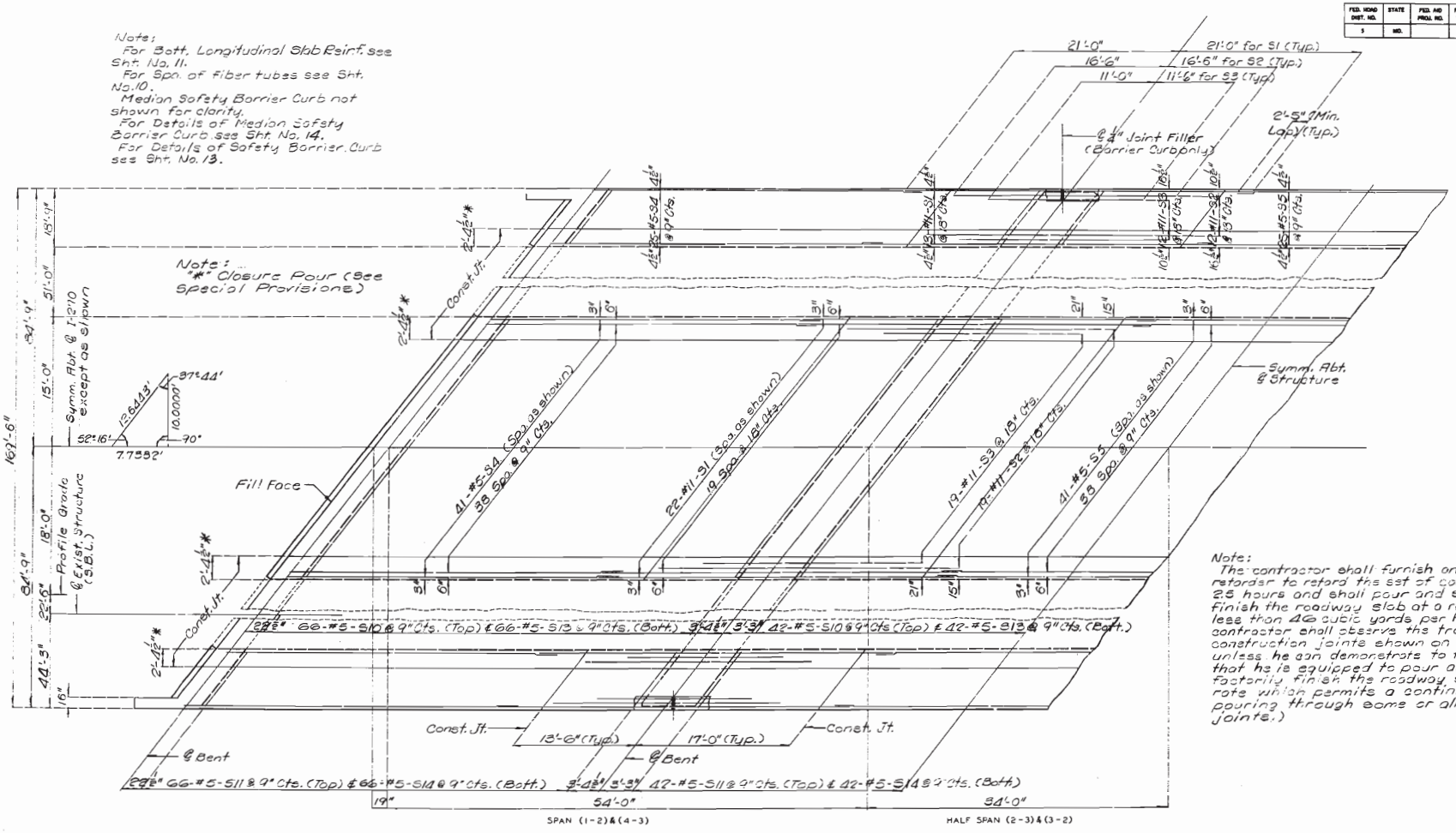
Sheet No. 11 of 15.

ST. LOUIS COUNTY

A-1052R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	88	

Note:
For Bott. Longitudinal Slab Reinf. see Sht. No. 11.
For Spa. of fiber tubes see Sht. No. 10.
Median Safety Barrier Curb not shown for clarity.
For Details of Median Safety Barrier Curb see Sht. No. 14.
For Details of Safety Barrier Curb see Sht. No. 13.



PART PLAN OF SLAB SHOWING TOP REINFORCEMENT

Note:
The contractor shall furnish an approved retarder to retard the set of concrete to 2.5 hours and shall pour and satisfactorily finish the roadway slab at a rate of not less than 40 cubic yards per hour. (The contractor shall observe the transverse construction joints shown on plans unless he can demonstrate to the engineer that he is equipped to pour and satisfactorily finish the roadway slab at a rate which permits a continuous pouring through some or all of these joints.)

Note:
Shift longitudinal Reinf. when necessary to clear longitudinal construction joint.

Note:
For Half Section Near Center of Span see Sht. No. 10.
For Half Section Near Int. Bts. see Sht. No. 10.
For Details of Slab Construction Joint Key see Sht. No. 8.

DETAILED Feb. 1982
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

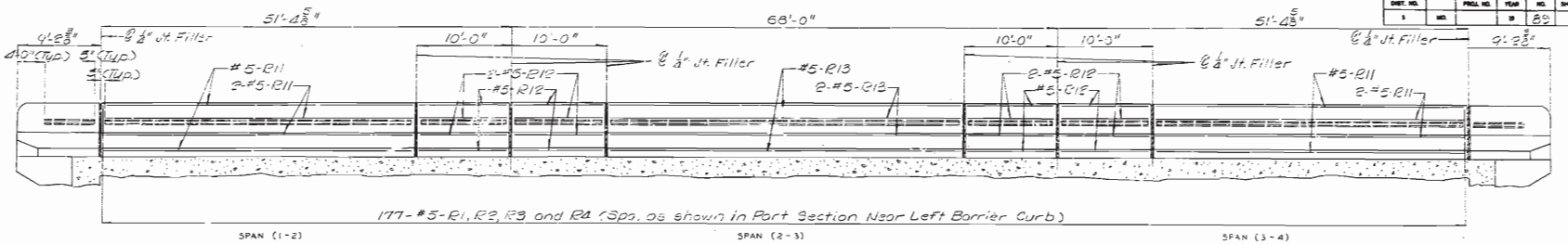
Sheet No. 12 of 15.

ST. LOUIS COUNTY

A-1052R

440

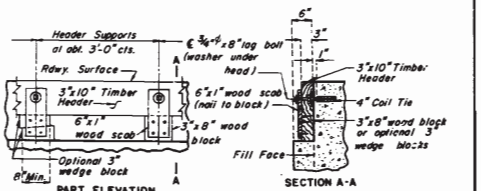
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	85	



SECTION NEAR LEFT BARRIER CURB
(RIGHT BARRIER CURB SIMILAR)

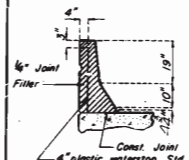
Note: Longitudinal dimensions are along top of slab parallel to grade. All reinforcing steel in barrier curbs shall be epoxy coated.

Note:
Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.



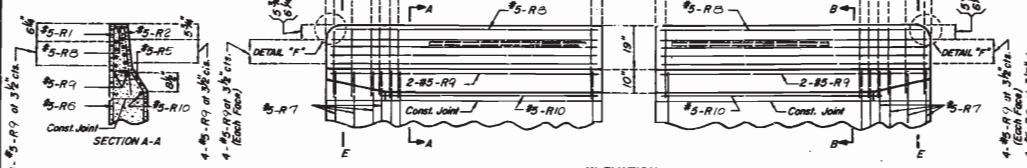
Note: Cost of timber headers complete in place to be included in contract unit price for concrete

DETAILS OF TIMBER HEADER AT END BENTS



Note: Plastic waterstop shall be placed in all safety barrier curb filled joints.
Cost of plastic waterstop complete in place to be included in unit price bid for Safety Barrier Curb.

DETAILS OF PLASTIC WATERSTOP



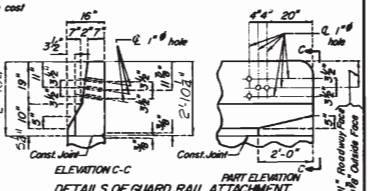
NOTES:

Top of barrier curb to be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

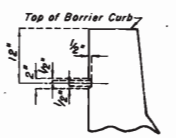
All exposed edges of barrier curb shall have 1/2" radius or 3/8 bevel unless otherwise noted.

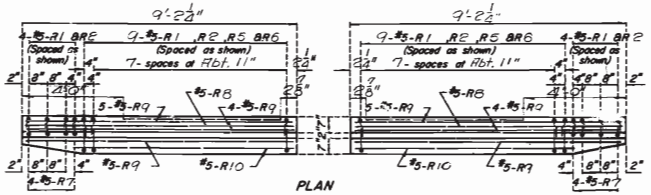
When the barrier curb is bid by linear feet, the contract unit price shall include the cost of all concrete and reinforcement, complete in place.

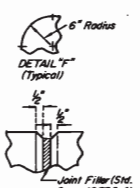
Concrete in the safety barrier curb shall be Class BI.

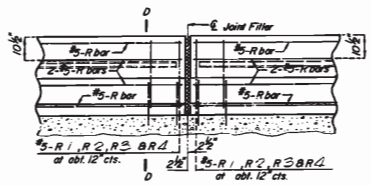


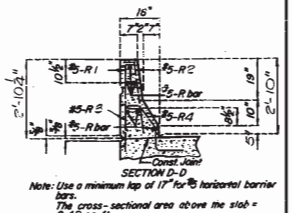
DETAILS OF GUARD RAIL ATTACHMENT











Note: Use a minimum lap of 17" for #5 horizontal barrier bars.
The cross-sectional area above the slab = 2.48 sq. ft.

DETAILS OF BARRIER CURB AT END BENTS

SPS 1.78(17) REVISED JUNE 1981
AUG. 1979

DETAILED Feb. 19 82
CHECKED May 19 84

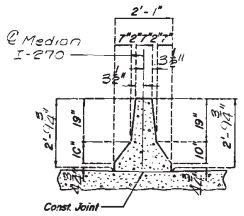
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 13 of 15.

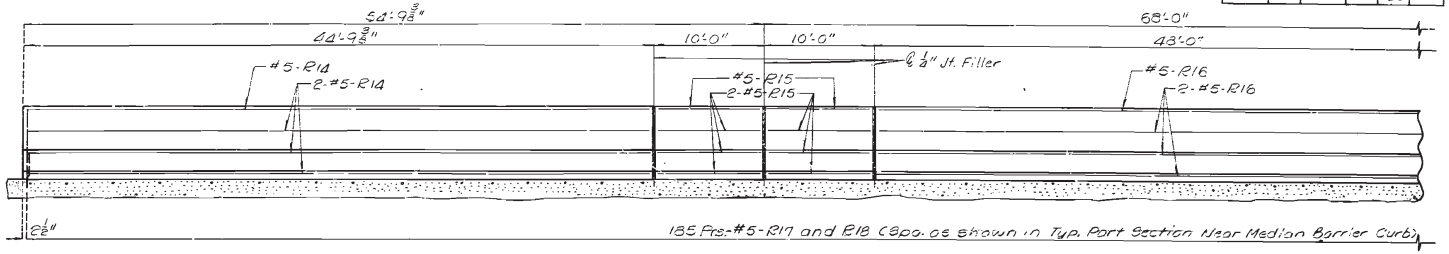
ST. LOUIS COUNTY

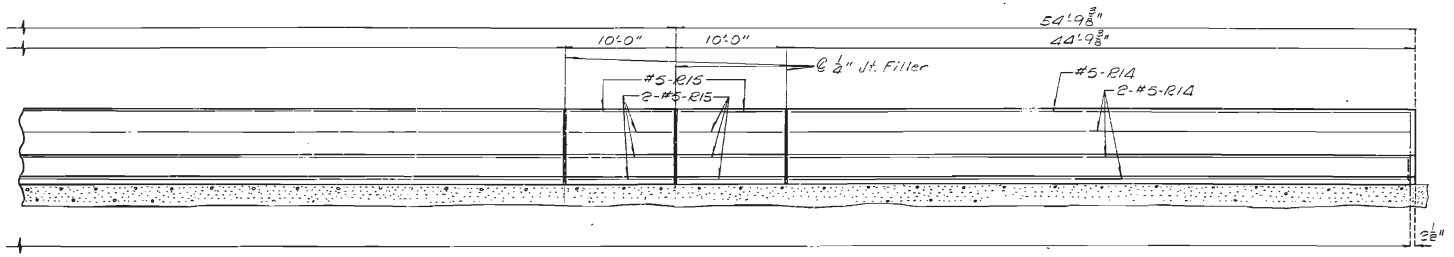
A-1052R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	30	

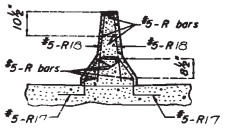


TYPICAL SECTION
SHOWING DIMENSIONS



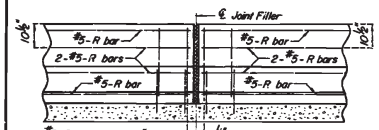


SECTION NEAR MEDIAN BARRIER CURB



TYPICAL SECTION
SHOWING REINFORCEMENT

Use a minimum lap of 17" for #5 horizontal median barrier curb bars.
The cross-sectional area above the slab = 3.81 ft.²



TYPICAL PART SECTION NEAR MEDIAN BARRIER CURB

NOTES:

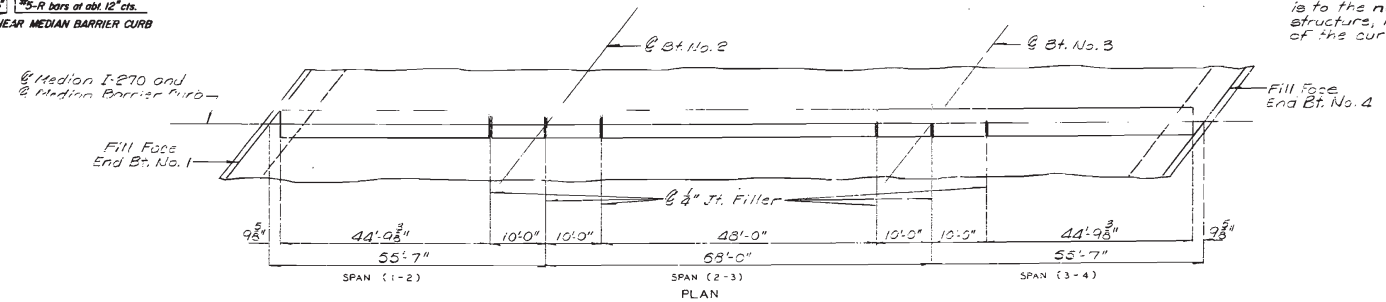
Top of median barrier curb to be built parallel to grade with median barrier curb joints normal to grade.

All exposed edges of median barrier curb shall have ½" radius or ⅜" bevel unless otherwise noted.

When the median barrier curb is bid by linear feet, the contract unit price shall include the cost of all concrete and reinforcement, complete in place.

Concrete for the median barrier curb shall be Class B1.

Measurement of median barrier curb is to the nearest linear foot for each structure, measured along the top face of the curb from fill face to fill face.



PLAN

442

Revised
Jan. 1982

DETAILED Feb. 1982
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF MEDIAN BARRIER CURB

Sheet No. 12 of 15.

ST. LOUIS **COUNTY**

A-1052R

COMPLETE BILL OF REINFORCING STEEL

NO. REQD.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (ST)	SUBSTR. (X)	VAR. (Y)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
			SUBSTRUCTURE																							
			INT. BT. NO. 2																							
54	8S1		COLUMN		20		X			5	7.000													5 7	5 7	805
18	7S2		FOOTING		20		X			7	3.000													7 3	7 3	267
18	5S3		FOOTING		20		X			5	0.000													5 0	5 0	96
6	6S4		FOOTING		10	S	X					3	6.000	7	3.000									14 3	13 11	125
139	4P1		COLUMN		16		X			2	3.000													7 11	7 11	735
9	8V20		COLUMN		19		X			27	2.000	12	0.000											28 2	28 0	673
9	8V21		COLUMN		19		X			27	3.000	12	0.000											28 3	28 1	675
9	8V22		COLUMN		19		X			27	2.000	12	0.000											28 2	28 0	673
9	8V23		COLUMN		19		X			22	2.000	12	0.000											23 2	23 0	553
9	8V24		COLUMN		19		X			21	10.000	12	0.000											22 10	22 8	545
9	8V25		COLUMN		19		X			21	8.000	12	0.000											22 8	22 6	541
		4S	INT. BT. NO. 3																							
54	8S1		COLUMN		20		X			5	7.000													5 7	5 7	805
18	7S2		FOOTING		20		X			7	3.000													7 3	7 3	267
18	5S3		FOOTING		20		X			5	0.000													5 0	5 0	96
6	6S4		FOOTING		10	S	X					3	6.000	7	3.000									14 3	13 11	125
140	4P1		COLUMN		16		X			2	3.000													7 11	7 11	740
9	8V30		COLUMN		19		X			27	5.000	12	0.000											28 5	28 3	679
9	8V31		COLUMN		19		X			27	7.000	12	0.000											28 7	28 5	683
9	8V32		COLUMN		19		X			27	6.000	12	0.000											28 6	28 4	681
9	8V33		COLUMN		19		X			22	5.000	12	0.000											23 5	23 3	559
9	8V34		COLUMN		19		X			22	1.000	12	0.000											23 1	22 11	551
9	8V35		COLUMN		19		X			21	11.000	12	0.000											22 11	22 9	547
			SUPERSTRUCTURE																							
			END BTS. 1 & 4																							
10	6M1		SLAB	E	20					37	8.000													37 8	37 8	566
16	6M2		BEAM		20					31	4.000													31 4	31 4	753
24	6M3		SLAB	E	20					23	5.000													23 5	23 5	563
32	6M4		BEAM		20					20	3.000													20 3	20 3	973
4	6M5		WING		20					6	4.000													6 4	6 4	38
24	6M6		WING		20		V	4		3	6.000													3 6	3 6	
			INCR = 6.750 IN							6	4.000													6 4	6 4	177
4	6M7		WING		20					7	2.000													7 2	7 2	43
24	6M8		WING		20		V	4		3	9.000													3 9	3 9	
			INCR = 8.000 IN							7	1.000													7 1	7 1	195
4	6T1		WING		27	S				2	11.000	5	3.375	10	0.000					4	2.000	3	3.000	9 0	9 0	54
4	6T2		WING		27	S				3	0.000	5	11.125	10	0.000					4	2.500	4	2.000	9 9	9 8	58
116	5U1		BEAM		10	S				3	2.000	2	10.000											9 2	9 0	1089
116	5U2		BEAM & SLAB	E	10	S				4	6.000	2	10.000											11 10	11 8	1412
24	5U3		SLAB	E	10	S				2	0.000	2	10.000											6 10	6 8	167
108	6U4		BEAM & SLAB	E	19	S				4	6.000	4	8.000											9 2	9 0	2541
32	6U10		SLAB	E	19	S				2	0.000	4	9.000											6 8	6 6	312
16	6V1		WING		20		V	4																21	21	
			[illegible]							5	2.000													5 2	5 2	83

COMPLETE BILL OF REINFORCING STEEL

NO. REQD.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (ST)	SUBSTR. (X)	VAR. (Y)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
16	6V2		WING		20			V	4	23	.000													23	23	
			INCR = 12.625 IN							×	1.000													5 1	5 1	84
			INT. BTS. 2 & 3																							
42	8M9		SLAB	E	18					23	5.000													25 3	25 3	2832
36	9M10		DROP PANEL		20					23	5.000													23 5	23 5	2866
20	11M11		SLAB	E	18					37	8.000													40 10	40 10	4339
24	11M12		DROP PANEL		20					37	8.000													37 8	37 8	4803
378	6U5		DROP PANEL	E	13	S				8	.000	2	1.000	3	4.000	8	.000							8 10	8 3	4659
			SLAB REINF.																							
96	1151		SLAB	E	20					42	0.000													42 0	42 0	21425
88	1152		SLAB	E	20					33	0.000													33 0	33 0	15429
86	1153		SLAB	E	20					22	6.000													22 6	22 6	10281
182	554		SLAB	E	20					35	5.000													35 5	35 5	6723
91	555		SLAB	E	20					30	10.000													30 10	30 10	2926
182	1056		SLAB		20					45	1.000													45 1	45 1	35307
86	1057		SLAB		20					27	0.000													27 0	27 0	9992
96	1058		SLAB		20					28	0.000													28 0	28 0	11566
91	1059		SLAB		20					46	2.000													46 2	46 2	18078
215	5510		SLAB	E	20					37	8.000													37 8	37 8	8447
430	5511		SLAB	E	20					23	5.000													23 5	23 5	10502
43	10512		SLAB		20					25	0.000													25 0	25 0	4626
215	5513		SLAB		20					37	8.000													37 8	37 8	8447
430	5514		SLAB		20					23	5.000													23 5	23 5	10502
			BARRIER CURB																							
406	5R1		BARRIER CURB	E	19	S				2	6.000	3	3.500											2 10	2 8	1129
406	5R2		BARRIER CURB	E	15	S				2	6.125	3	3.500									2	6.000	3.000	2 10	2 9	1165
354	5R3		BARRIER CURB	E	19	S				19	3.000	6	3.000											2 1	2 0	738
354	5R4		BARRIER CURB	E	27	S						6	3.000	11	3.125	9	3.000	12	3.000	9	3.125	6	3.375	3 2	3 0	1108
36	5R5		BARRIER CURB	E	27	S						6	3.000	11	3.125	2	6.000			9	3.125	6	3.375	3 11	3 10	144
36	5R6		BARRIER CURB	E	19	S				3	2.000	6	3.000											3 8	3 7	135
16	5R7		BARRIER CURB	E	10	S				3	2.000	6	3.000											6 10	6 8	111
4	5R8		BARRIER CURB	E	20					8	9.000													8 5	8 5	35
42	5R9		BARRIER CURB	E	20					8	11.000													8 11	8 11	391
4	5R10		BARRIER CURB	E	20					6	11.000													6 11	6 11	29
24	5R11		BARRIER CURB	E	20					41	1.000													41 1	41 1	1028
48	5R12		BARRIER CURB	E	20					9	9.000													9 9	9 9	488
12	5R13		BARRIER CURB	E	20					47	9.000													47 9	47 9	598
16	5R14		MEDIAN BARRIER	E	20					44	6.000													44 6	44 6	650
28	5R15		MEDIAN BARRIER	E	20					9	9.000													9 9	9 9	285
7	5R16		MEDIAN BARRIER	E	20					47	9.000													47 9	47 9	349
370	5R17		MEDIAN BARRIER	E	27	S						8	3.000	9	1.375	9	3.000	12	3.000	9	1.250	6	3.375	11 6	11 4	4374
370	5R18		MEDIAN BARRIER	E	15	S				2	7.125	3	3.500									2	7.000	3.000	2 11	2 10	1095
			END OF BAR LIST																							

STIRRUP HOOK DIMENSIONS

GRADES 40-50-60 KSI

BAR SIZE	D (in.)	90° HOOK A or G	135° HOOK A or G	135° HOOK APPROX. H
#3	1-1/2"	4"	4"	2-1/2"
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3/4"
#6	4-1/2"	8"	7"	4-1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.

SIZE OF 180° HOOKS (GRADE 40 KSI)
D = 5d FOR #3 THRU #11
D = 10d FOR #14 AND #18

SIZE OF 90° HOOKS (ALL GRADES) AND 180° HOOKS (GRADE 60 KSI)
D = 6d FOR #3 THRU #8
D = 8d FOR #9, #10 AND #11
D = 10d FOR #14 AND #18

END HOOK DIMENSIONS

BAR SIZE	180° HOOKS GRADE 40 A or G	180° HOOKS GRADE 40 J	180° HOOKS GRADE 60 A or G	180° HOOKS GRADE 60 J	90° HOOKS ALL GRADES A or G
#3	5"	2-3/4"	5"	3"	6"
#4	6"	3-1/2"	6"	4"	8"
#5	7"	4-1/2"	7"	5"	10"
#6	8"	5-1/4"	8"	6"	12"
#7	9"	6-1/4"	10"	7"	14"
#8	10"	7"	11"	8"	16"
#9	12"	8"	15"	11-1/4"	19"
#10	13"	9"	17"	12-3/4"	22"
#11	14"	10"	19"	14-1/4"	2'-0"
#14	2'-2"	20-1/2"	2'-2"	20-1/2"	2'-7"
#18	2'-11"	2'-3"	2'-11"	2'-3"	3'-5"

NOTES:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E - EPOXY COATED REINFORCEMENT.
S - STIRRUP.
X - BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
Y - BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. - NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS - ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS - ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.

TWO ADDITIONAL H1,H9,R9652 ARE INCLUDED IN BAR BILL FOR TESTING.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	91	

443

STD. 90.8 REVISED SEPT. 1982
MAY 1974

SHAPE 6 SHAPE 7 SHAPE 8 SHAPE 9 SHAPE 10 SHAPE 11 SHAPE 12 SHAPE 13 SHAPE 14 SHAPE 15 SHAPE 18 SHAPE 19 SHAPE 17 SHAPE 18 SHAPE 20 SHAPE 21 SHAPE 22 SHAPE 23 SHAPE 24 SHAPE 25 SHAPE 26 SHAPE 27 SHAPE 28 SHAPE 29 SHAPE 30 SHAPE 31 SHAPE 32 SHAPE 33

DETAILED May 1984
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

BENDING DIAGRAMS

Sheet No. 15 of 15.

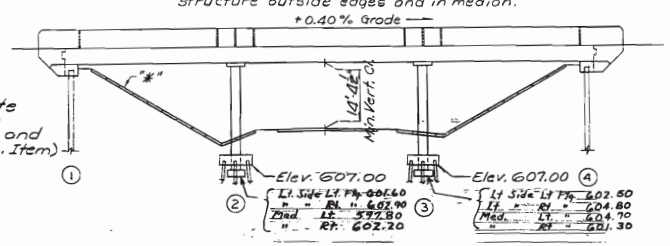
ST. LOUIS COUNTY

A-1052R

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	MO.		19	77	
SEC. 15	TWP. 45N		RGE. 5E		

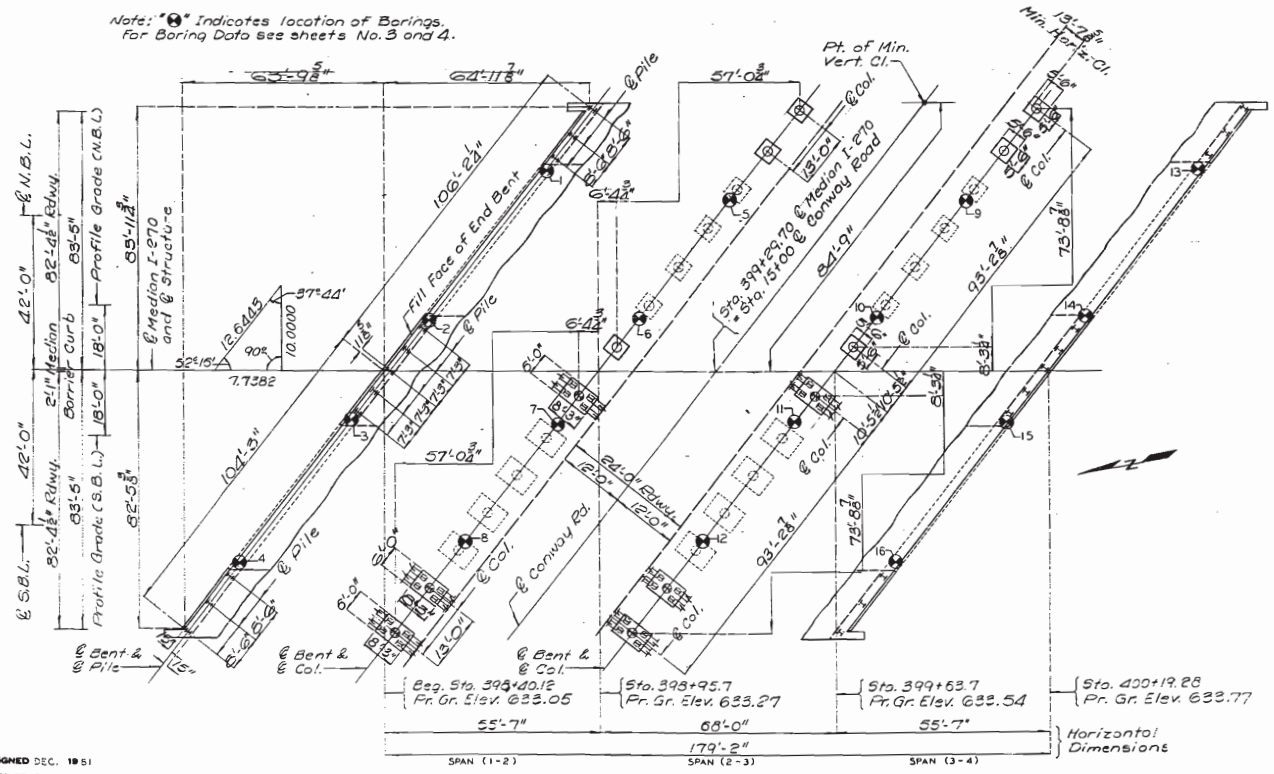
U.I.P. Exist. (54'-68'-54') Cont. Voided Conc. spans and widen structure outside edges and in median.



Note: "*" 4" Concrete slope protection (Match existing and extend) (Rdwy. Item) (Typ.)

GENERAL ELEVATION

Note: "⊕" Indicates location of Borings. For Boring Data see sheets No. 3 and 4.



PLAN

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 15.

GENERAL NOTES:

Design Specifications:
A.A.S.H.T.O. - 1977 and Interims thru 1982
Load Factor Design: Substructure

FINAL PLANS

Design Loading:
H320-44 No Future Wearing Surface
Modified 24,000 # Tandem Axle
Earth 120 #/cu. ft., Equivalent Fluid Pressure 30#/cu. ft.

Design Unit Stresses:

Class B Concrete (Footings)	f'c = 3,000 psi
Class B1 Concrete (Safety Barrier Curb, Median Barrier Curb, Columns and End Bents below lowest Const. Jt.)	f'c = 4,000 psi
Class B2 Concrete (Slab)	f'c = 4,000 psi
Reinforcing Steel (Grade 60)	fy = 60,000 psi
Steel Pile	fb = 9,000 psi

Joint Filler: All joint filler shall meet the requirement of Std. Spec. 1057.2.4.

Reinforcing Steel: Minimum clearance to reinforcing steel shall be 1½" unless otherwise shown.

Construction Clearance: Falsework over existing lanes shall be constructed with a minimum vertical clearance of 13'-6" from crown of existing lanes and a minimum lateral clearance of 28'-0" centered on existing lanes.

Traffic Maintained: Traffic over structure to be maintained during construction.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.

Note:
For Estimated Quantities see Sht. No. 4.
For Pile and Footing Data see Sht. No. 4.

B.M. Elev. 634.00 # R1052R Chiseled "□" S.E. Cor. N.B. lane on wing.

BRIDGE OVER CONWAY ROAD

STATE ROAD FROM RTE. 40 TO RTE. 340

ABOUT 0.4 MILE NORTH OF RTE. 40

PROJECT NO. IR-270-5(212) **STA.** 398+40.12

JOB NO. 6-1270-4220 **RTE.** I-270

ST. LOUIS **COUNTY**

DATE JUNE 20, 1984

FINAL PLANS

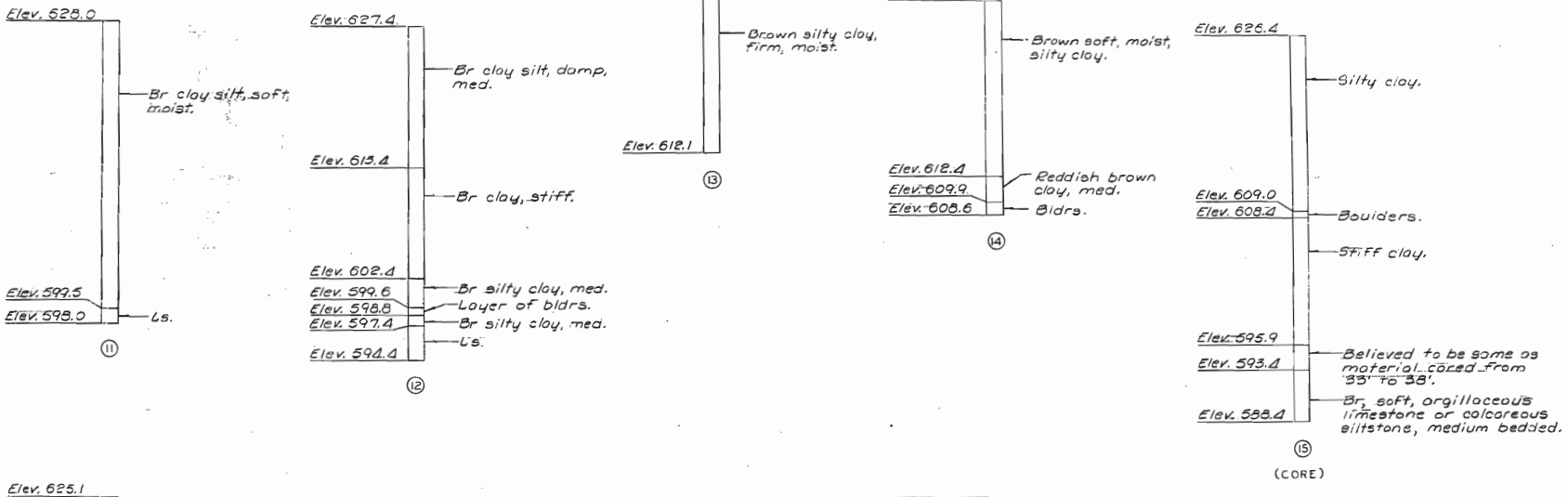
STD.	611.60
STD.	706.35
	A-1052R

DESIGNED DEC. 1951
DETAILED FEB. 1952
CHECKED MAY 1984

444

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	80	

FINAL PLANS



445

ESTIMATED QUANTITIES

ITEM		SUBSTR.	SUPERSTR.	TOTAL
Special Work	Lump Sum			0.8
Class 1 Excavation	Cu. Yd.	417		417
Structural Steel Piles (10 In.)	Lin. Ft.	1052		1052
Class B Concrete	Cu. Yd.	34.7		34.7
Class B1 Concrete	Cu. Yd.	98.3		98.3
Class B2 Concrete	Cu. Yd.		663.6	663.6
Safety Barrier Curb	Lin. Ft.		379	379
Median Barrier Curb	Lin. Ft.		178	178
Repairing Concrete Deck (Half-Soling)	Sq. Ft.		1084	1084
Low Slump Concrete Wearing Surface	Sq. Yd.		3280	3280
Reinforcing Steel (Grade 60)	Lb.	11,880	100600	112480
Reinforcing Steel (Epoxy Coated)	Lb.		82770	82770
505.02 Test Holes	L.F.	32		32
505.03 Cl. 1 Exc @ 125%	C.Y.	37.5		37.5

Note:
All reinforcement in the end bents is included with superstructure quantities.
All concrete above lower construction joint in end bents is included with superstructure quantities.

PILE AND FOOTING DATA

	BENT	1 LT.	1 CTR.	1 RT.	2 CTR.	2 RT.	3 CTR.	3 RT.	4 LT.	4 CTR.	4 RT.
BEARING PILE	Pile Type and Size	HP10x42			HP10x42		HP10x42		HP10x42		
	Number	3	5	3	5	10	5	10	3	5	3
	Approximate Length Ft.	23	27	33	11	11	11	11	15	30	30
	Design Bearing Tons	34	35	34	48	46	48	46	34	35	34
	Hammer Energy Required Ft. Lbs.	7700	7800	7700	10800	10400	10800	10400	7700	7800	7700
SPREAD FOOTINGS	Foundation Material	—			Rock		Rock				
	Design Bearing Tons/Sq.Ft.				10.0		10.0				

Note:
Minimum energy requirement of hammer based on plan length and design bearing value of piles.
All pile shall be driven to practical refusal.

FINAL PLANS

DETAILED Feb. 1982
CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 44 of 45.

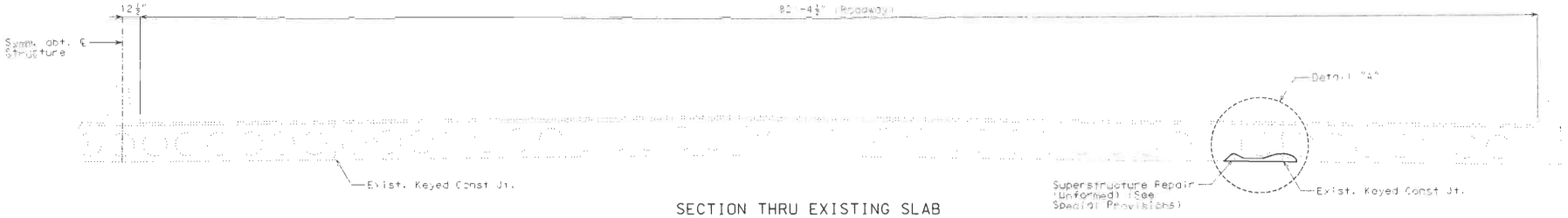
ST. LOUIS COUNTY

A-1052R

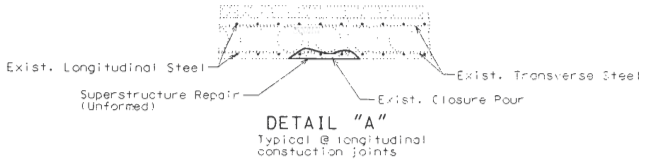
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

U.I.P. Existing (54'-68'-54') Continuous Concrete Voided Slab Spans

State	Proj. No.	Sheet No.
MO		B21
SEC/SUR 15	TWP 45N	RGE 5E



SECTION THRU EXISTING SLAB



DETAIL "A"
Typical @ longitudinal constuction joints

General Notes:

Design Specifications:
2002 - AASHTO 17th Edition

Dimensions:
Contractor shall verify dimensions in field before ordering materials.

Miscellaneous:
Traffic over structure to be maintained during construction. (See Roadway Plans for traffic control.)

Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

ESTIMATED QUANTITIES		
ITEM		TOTAL
Superstructure Repair (Unformed)	sq. foot	750
Fabricated Sign Support Brackets	lump sum	1

REPAIRS TO:
BRIDGE OVER CONWAY ROAD
STATE ROAD FROM RTE. 40 TO RTE. 340
ABOUT 0.4 MILE NORTH OF RTE. 40
PROJECT NO. STA. 398+40.12
JOB NO. J6I1515 (MATCH EXIST.)
RTE. I-270

STATE OF MISSOURI
DEAN DAVID FRANKE NUMBER E-28132
REGISTERED PROFESSIONAL ENGINEER
DATE 11-4-03

Detailed JUL. 2003
Checked AUG. 2003

Note: This drawing is not to scale. Follow dimensions.

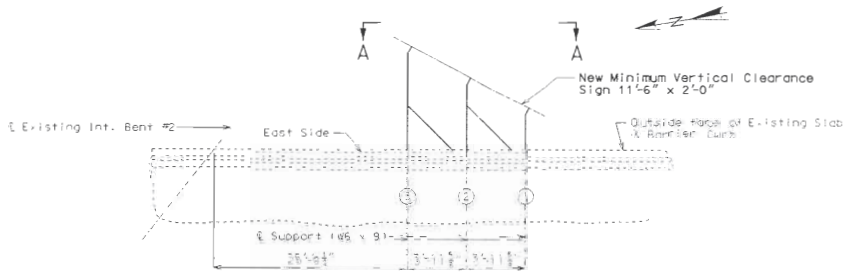
Sheet No. 1 of 5

ST. LOUIS COUNTY
Date: 11/5/03

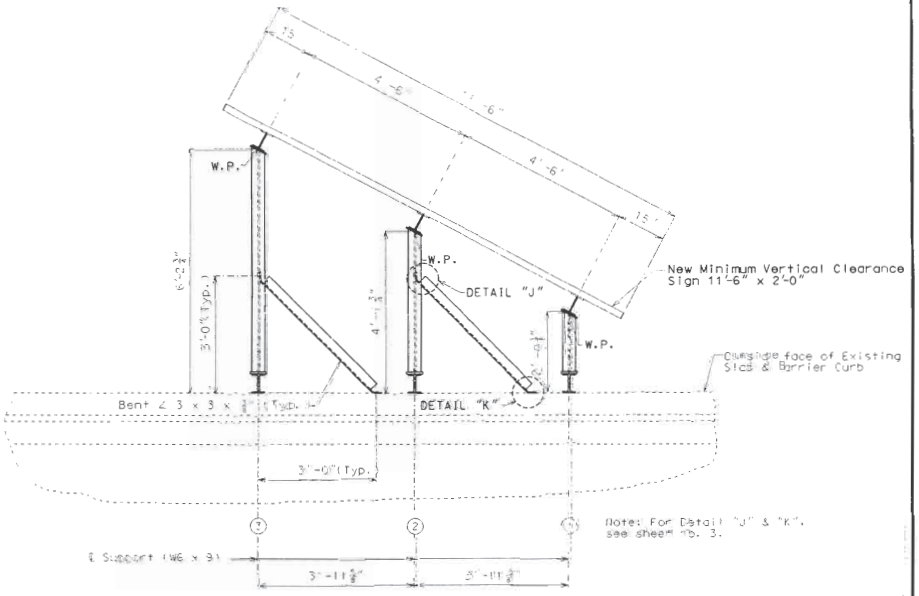
A10522

REV.

State	Proj. No.	Sheet No.
MO		2 of 5

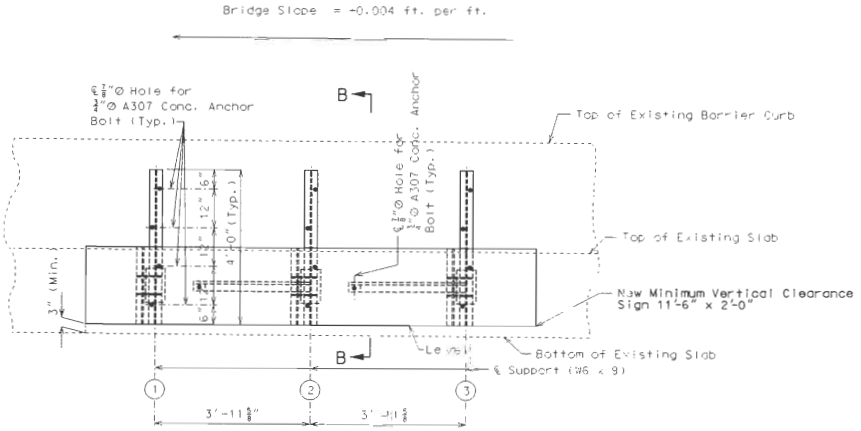


PART PLAN SHOWING LOCATION OF SIGN



PART PLAN SHOWING DIMENSIONS & LOCATION OF SIGN

Note: All longitudinal dimensions are horizontal.



PART ELEVATION A-A

Note: For Section B-B, see sheet no. 3.

GENERAL NOTES:

Center and level sign.

All bolts, nuts and washers shall be galvanized.

Concrete anchors shall be the non-drilling expansion type. They shall have a certified pullout strength (Ultimate Load) of at least 12,100 pounds in 4,000 psi concrete. The hole shall be pre-drilled with a conventional carbide masonry bit.

The contractor shall verify all dimensions in field before ordering new steel.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Sign substrate shall be 12" extruded panels.

The cost of furnishing and erecting the sign supports, including the concrete anchors complete-in-place, shall be paid for as "Fabricated Sign Support Brackets" per lump sum.

All structural steel shall be A.S.T.M. A709, Grade 36, galvanized.

STATE OF MISSOURI
DEAN DAVID FRANKE
NUMBER E-28132
REGISTERED PROFESSIONAL ENGINEER
DATE 11-4-03

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(East Side of Bridge No. A10522 Over Conway Road)

Detailed Aug. 2003
Checked Sept. 2003

Note: This drawing is not to scale. Follow dimensions.

ST. LOUIS COUNTY

A10522

REV.

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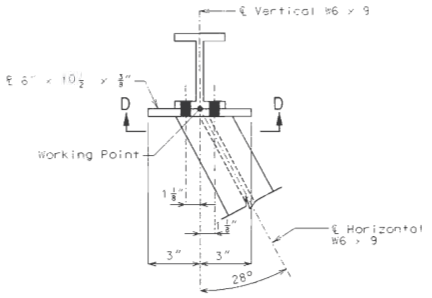
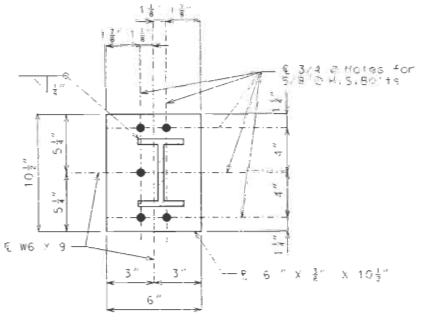
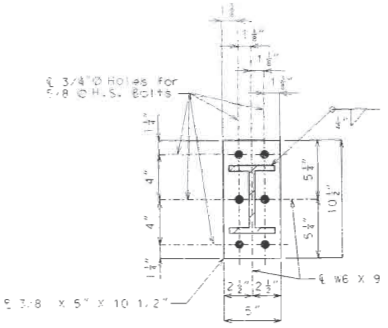
State	Proj. No.	Sheet No.
MO		B23



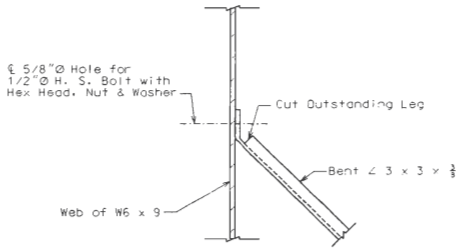
DETAIL OF W.P.



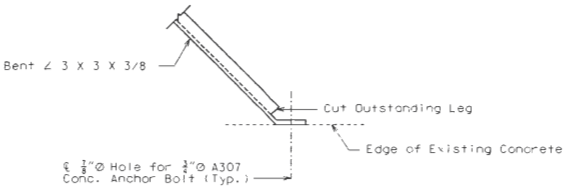
SECTION D-D
&
DETAIL "D"



DETAIL "E"

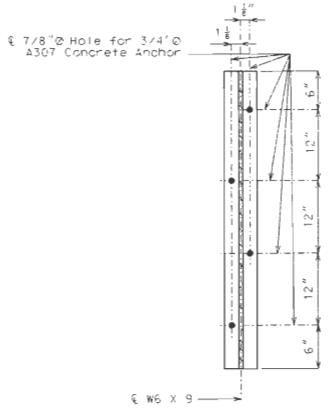


DETAIL "J"

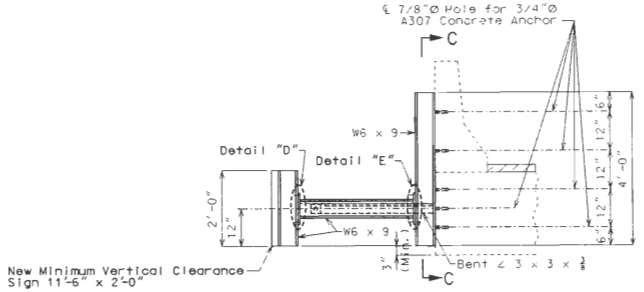


DETAIL "K"

Note: For location of Detail "J" & "K", see sheet no. 2.



SECTION C-C



SECTION B-B

Note: For location of Section B-B, see sheet no. 2.

STATE OF MISSOURI
DEAN DAVID FRANKE NUMBER E-28132
PROFESSIONAL ENGINEER

DATE 11-4-03

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(East Side of Bridge No. A10522 Over Conway Road)

Detailed Aug. 2003
Checked Sept. 2003

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 5

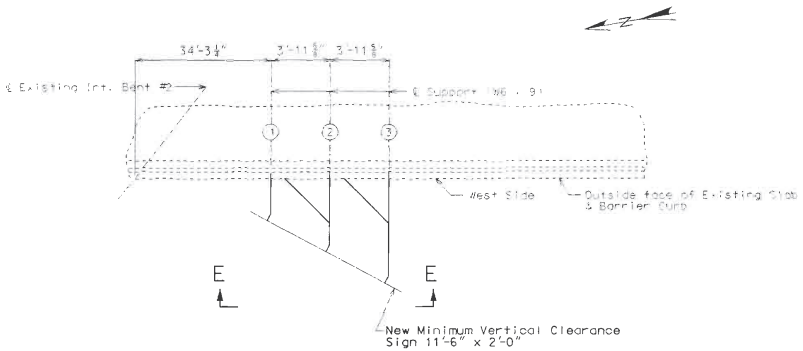
ST. LOUIS COUNTY

A10522

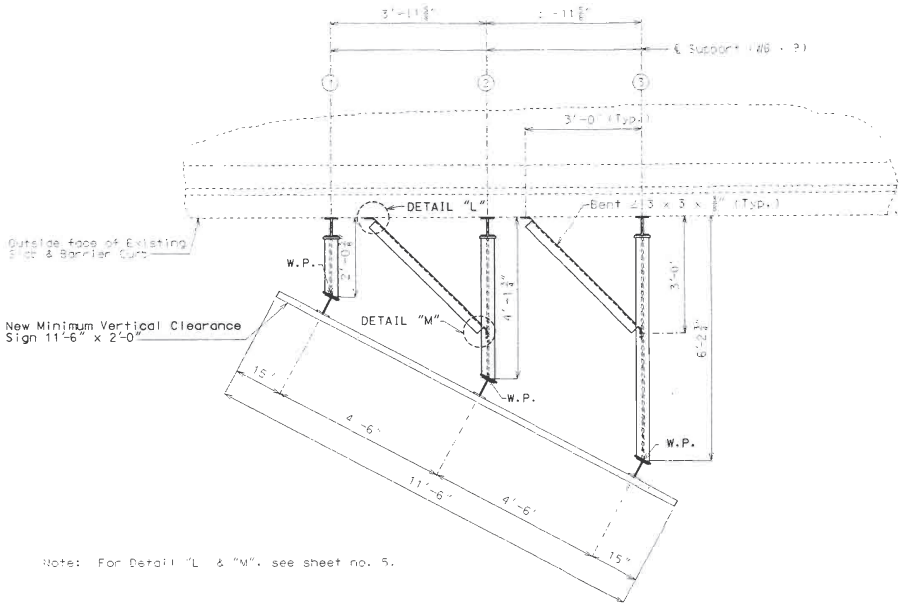
REV.

Plotted By: ryan.boyd@modot.mo.gov\Desktop\A10522\A10522_003.dgn 12:20:53 PM 10/20/2003

State	Proj. No.	Sheet No.
MO		B24



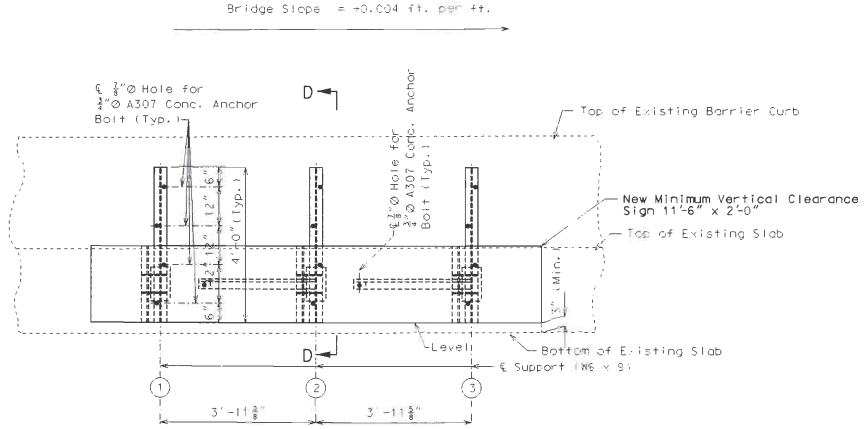
PART PLAN SHOWING LOCATION OF SIGN



Note: For Detail "L" & "M", see sheet no. 5.

PART PLAN SHOWING DIMENSIONS & LOCATION OF SIGN

Note: All longitudinal dimensions are horizontal.



PART ELEVATION E-E

Note: For Section D-D, see sheet no. 5.

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(West Side of Bridge No. A10522 Over Conway Road)

STATE OF MISSOURI
DEAN DAVID FRANKE NUMBER E-28132
PROFESSIONAL ENGINEER

DATE 11-4-03

Detailed Aug. 2003
Checked Sept. 2003

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 5

ST. LOUIS COUNTY

A10522

REV.

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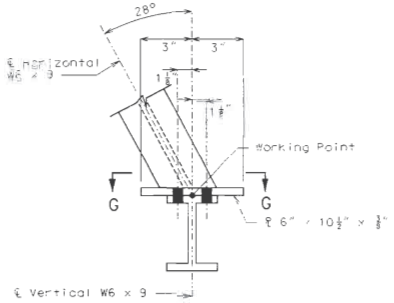
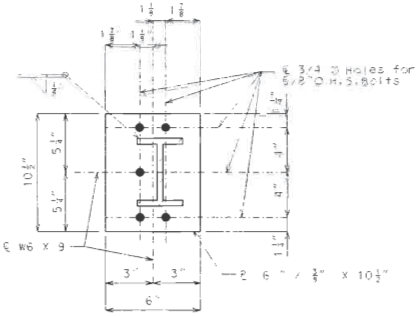
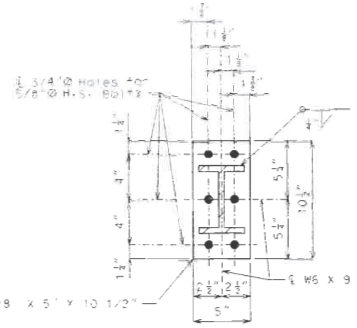
State	Proj. No.	Sheet No.
MO		825



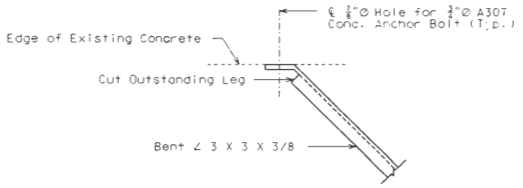
DETAIL OF W.P.



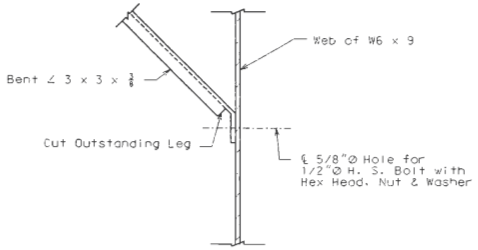
SECTION G-G
&
DETAIL "G"



DETAIL "E"

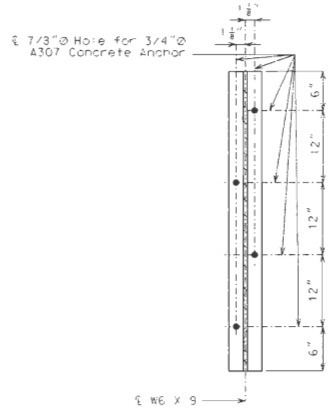


DETAIL "L"

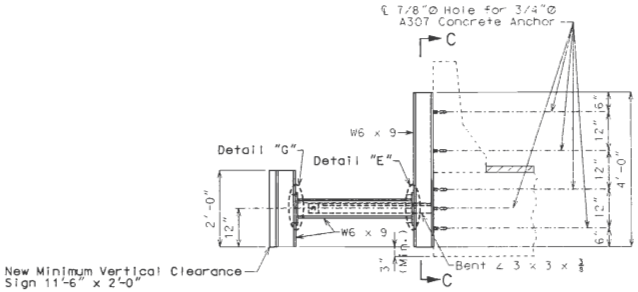


DETAIL "M"

Note: For location of Detail "L" & "M", see sheet no. 4.



SECTION C-C



SECTION D-D

Note: For location of Section D-D, see sheet no. 4.

STATE OF MISSOURI
DEAN DAVID FRANKE NUMBER E-28132 PROFESSIONAL ENGINEER

DATE 11-4-03

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(West Side of Bridge No. A10522 Over Conway Road)

Detailed Aug. 2003
Checked Sept. 2003

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 5

ST. LOUIS COUNTY

A10522

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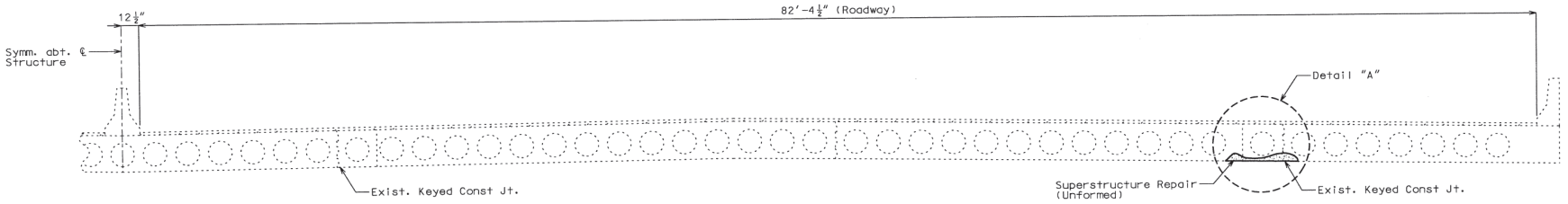
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

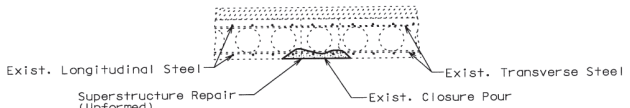
U.I.P. Existing (54'-68'-54') Continuous Concrete Voided Slab Spans

CONTRACT	040220-604
JOB	J6I1515
COUNTY	ST. LOUIS

State	Proj. No.	Sheet No.
MO	I-270-5(303)	8
SEC/SUR 15	TWP 45N	RGE 5E



SECTION THRU EXISTING SLAB



DETAIL "A"
Typical @ longitudinal constuction joints

General Notes:

Design Specifications:
2002 - AASHTO 17th Edition

Dimensions:
Contractor shall verify dimensions in field before ordering materials.

Miscellaneous:
Traffic over structure to be maintained during construction.

Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

FINAL QUANTITIES

ITEM		TOTAL
Superstructure Repair (Unformed)	sq. foot	0
Fabricated Sign Support Brackets	lump sum	1
LINE 5009 - Superstructure Repair (Unformed)	sq. foot	964

STATE OF MISSOURI KAREN L. YEOMANS NUMBER E-29693 REGISTERED PROFESSIONAL ENGINEER
3-25-05

FINAL PLANS

I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE. AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

Karen L Yeomans 3-25-05
SIGNATURE DATE

Detailed JUL. 2003
Checked AUG. 2003

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 5

REPAIRS TO:
BRIDGE OVER CONWAY ROAD

STATE ROAD FROM RTE. 40 TO RTE. 340
ABOUT 0.4 MILE NORTH OF RTE. 40
PROJECT NO. STA. 398+40.12
JOB NO. J6I1515 (MATCH EXIST.)
RTE. I-270

ST. LOUIS COUNTY Date: / /

A10522 REV.

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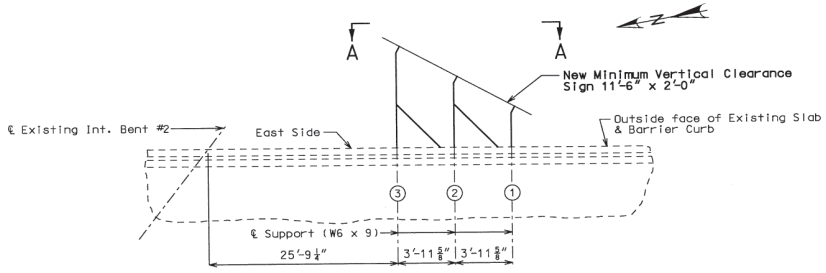
State	Proj. No.	Sheet No.
MO	I-270-5(303)	9

CONTRACT 040220-604
JOB J6I1515
COUNTY ST. LOUIS



PART PLAN SHOWING LOCATION OF SIGN

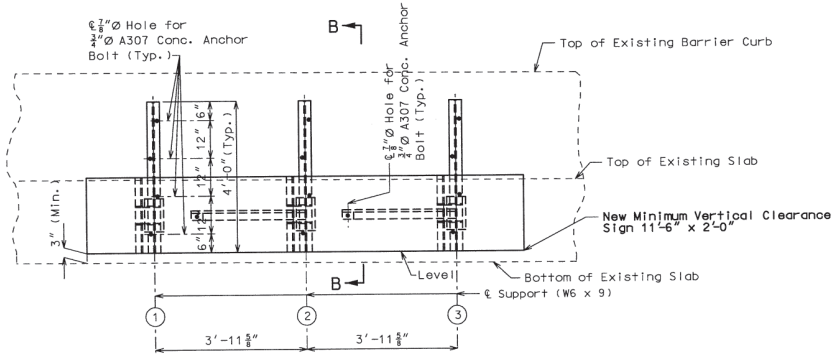
FINAL PLANS

I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

STATE OF MISSOURI
KAREN D YEOMANS
NUMBER E-29693
REGISTERED PROFESSIONAL ENGINEER

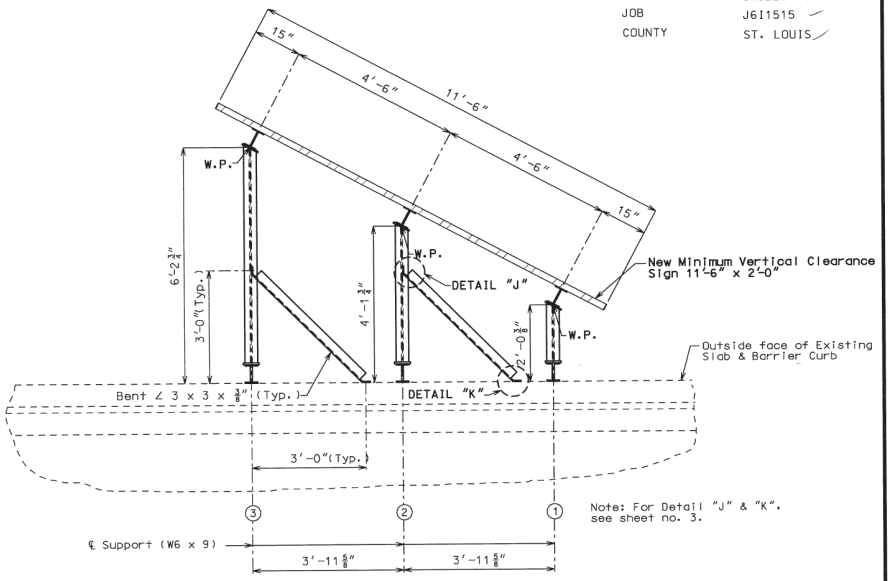
SIGNATURE 3-25-05 DATE

Bridge Slope = +0.004 ft. per ft.



PART ELEVATION A-A

Note: For Section B-B, see sheet no. 3.



PART PLAN SHOWING DIMENSIONS & LOCATION OF SIGN

Note: All longitudinal dimensions are horizontal.

GENERAL NOTES:

Center and level sign.

All bolts, nuts and washers shall be gavanized.

Concrete anchors shall be the non-drilling expansion type. They shall have a certified pullout strength (Ultimate Load) of at least 12,100 pounds in 4,000 psi concrete. The hole shall be pre-drilled with a conventional carbide masonry bit.

The contractor shall verify all dimensions in field before ordering new steel.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Sign substrate shall be 12" extruded panels.

The cost of furnishing and erecting the sign supports, including the concrete anchors complete-in-place, shall be paid for as "Fabricated Sign Support Brackets" per lump sum.

All structural steel shall be A.S.T.M. A709, Grade 36, galvanized.

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(East Side of Bridge No. A10522 Over Conway Road)

Detailed Aug. 2003
Checked Sept.2003

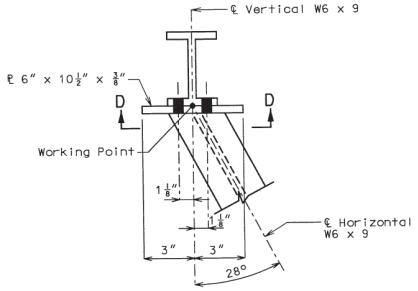
Note: This drawing is not to scale. Follow dimensions.

ST. LOUIS COUNTY A10522 REV.

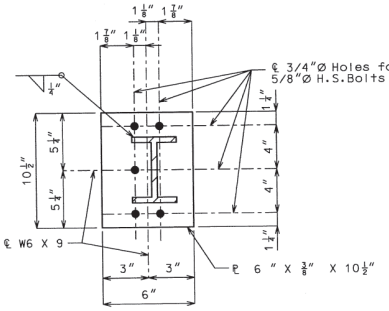
J:\J6I1515-J6I1515B\J6I1515\A10522\A10522_002.dgn 01:04:06 PM 03/09/2005

State	Proj. No.	Sheet No.
MO	I-270-5(303)	10

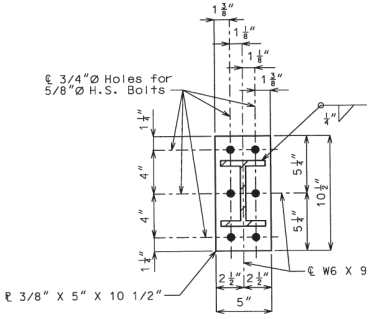
CONTRACT 040220-604
JOB J6I1515
COUNTY ST. LOUIS



DETAIL OF W.P.



SECTION D-D
&
DETAIL "D"



DETAIL "E"

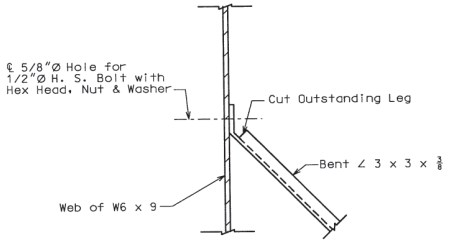
FINAL PLANS

I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES. TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

Sara Thomas
SIGNATURE

3-25-05
DATE

STATE OF MISSOURI SARA THOMAS NUMBER E-28609 REGISTERED PROFESSIONAL ENGINEER



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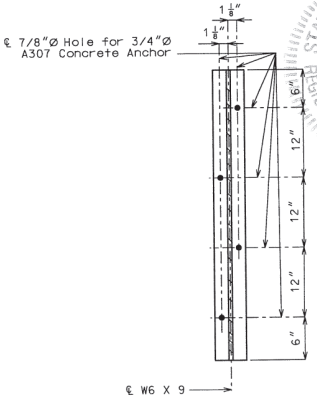
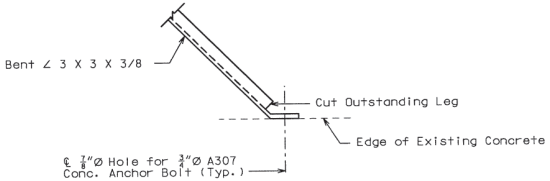
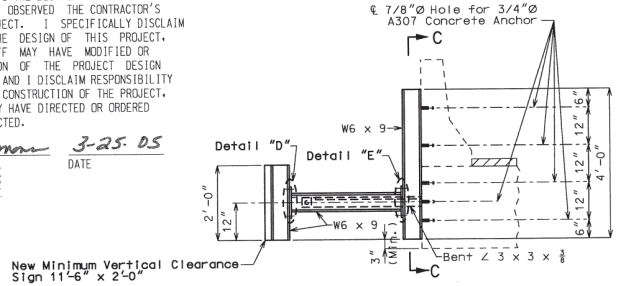


SECTION C-C



DETAIL "K"

Note: For location of Detail "J" & "K", see sheet no. 2.



SECTION B-B

Note: For location of Section B-B, see sheet no. 2.

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(East Side of Bridge No. A10522 Over Conway Road)

ST. LOUIS COUNTY

A10522 REV.

Detailed Aug. 2003
Checked Sept.2003

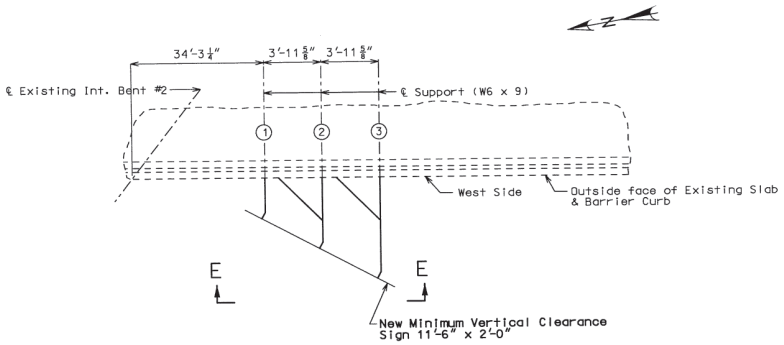
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 5

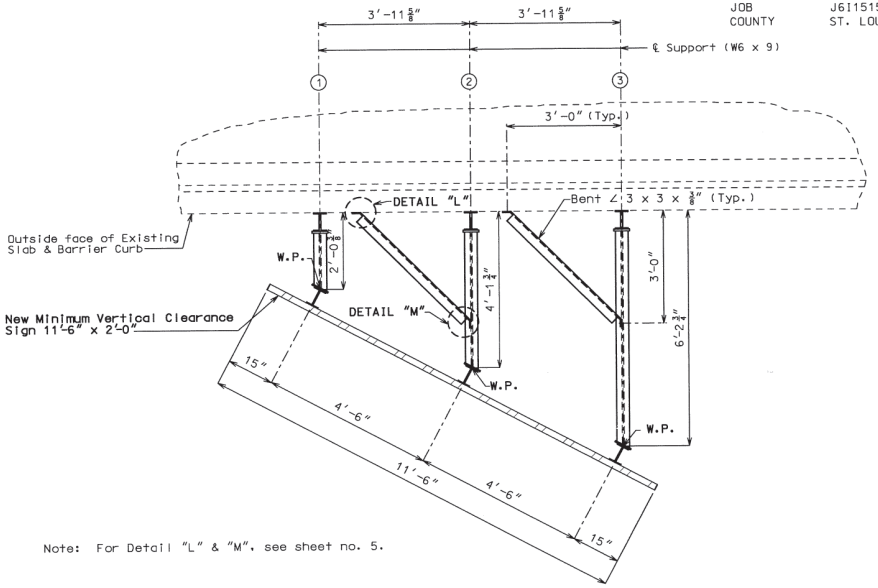
J:\J6I1515-J6I1515B\J6I1515\A10522\A10522_003.dgn 01:06:07 PM 03/09/2005

State	Proj. No.	Sheet No.
MO	I-270-5(303)	11

CONTRACT 040220-604
JOB J6I1515
COUNTY ST. LOUIS



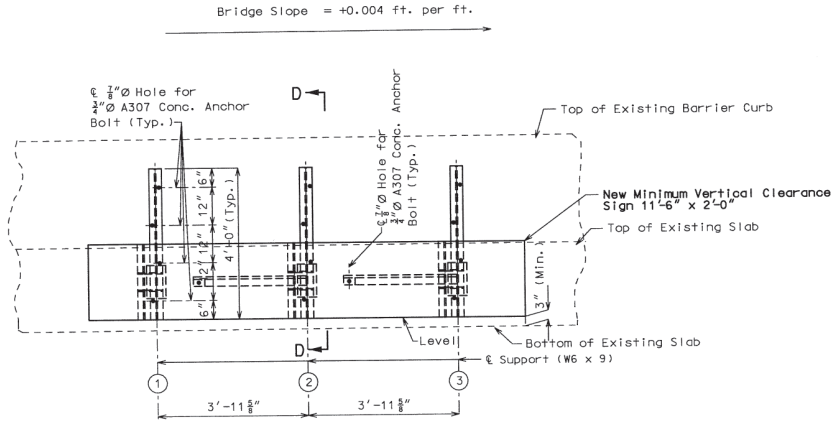
PART PLAN SHOWING LOCATION OF SIGN



Note: For Detail "L" & "M", see sheet no. 5.

PART PLAN SHOWING DIMENSIONS & LOCATION OF SIGN

Note: All longitudinal dimensions are horizontal.



PART ELEVATION E-E

Note: For Section D-D, see sheet no. 5.

FINAL PLANS

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STATE OF MISSOURI KAREN D. YEOMANS NUMBER E-29693 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE 3-25-05 DATE

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(West Side of Bridge No. A10522 Over Conway Road)

Detailed Aug. 2003
Checked Sept.2003

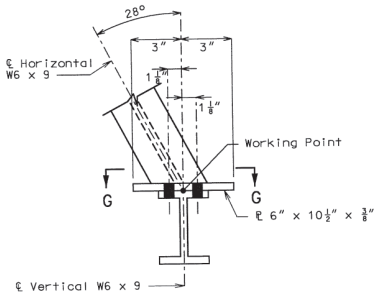
Note: This drawing is not to scale. Follow dimensions.

ST. LOUIS COUNTY A10522 REV.

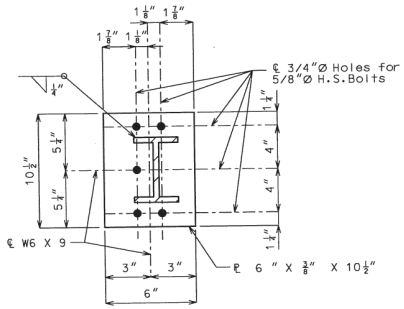
J:\J6I1515-J6I1515B\J6I1515\A10522\A10522_004.dgn 01:08:19 PM 03/09/2005

State	Proj. No.	Sheet No.
MO	I-270-5(303)	12

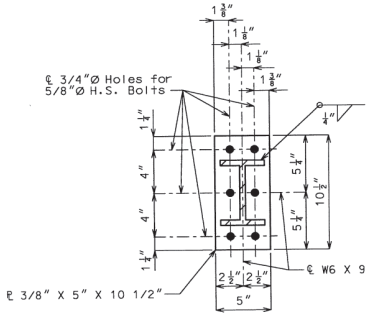
CONTRACT 040220-604
JOB J6I1515
COUNTY ST. LOUIS



DETAIL OF W.P.



SECTION G–G
&
DETAIL "G"



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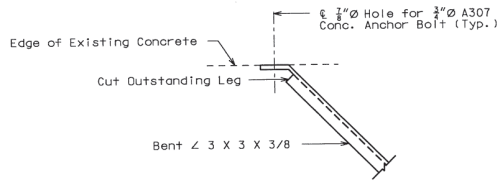
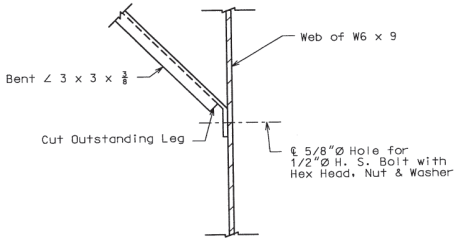
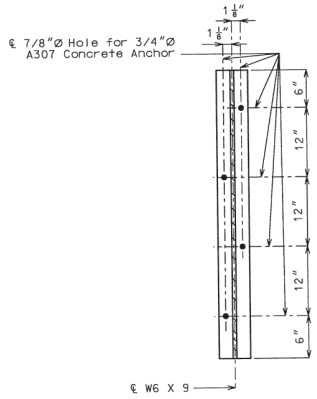


DETAIL "L"

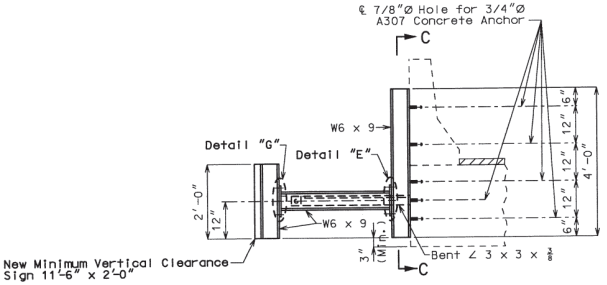


DETAIL "M"

Note: For location of Detail "L" & "M", see sheet no. 4.



SECTION C–C



SECTION D–D

Note: For location of Section D–D, see sheet no. 4.

FINAL PLANS

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Karen Uhlman — SIGNATURE
3-25-05 — DATE

SIGN SUPPORT BRACKETS FOR VERTICAL CLEARANCE SIGN

(West Side of Bridge No. A10522 Over Conway Road)

ST. LOUIS COUNTY

A10522

REV.

Detailed Aug. 2003
Checked Sept.2003

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 5

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Safe & Sound = N

Missouri Department of Transportation
Bridge Inspection Report

DISTRICT : SL **COUNTY : ST. LOUIS** **A1052**

GENERAL STRUCTURE INFORMATION

STRUCTURE NUMBER :	**A1052** 850	STRUCTURE STATUS :	A-OPEN	MAINTENANCE DISTRICT : SL	MAINTENANCE COUNTY : ST. LOUIS	PLACE CODE :	79054 WESTWOOD VILLAGE
DISTRICT :	**SL**	DIRECTION OF TRAFFIC :	2-WAY TRAF	OWNED BY : MODOT	MAINTAINED BY : MODOT	INSPECTORS :	MATTHEW GEIGER (STATE)
COUNTY :	**ST. LOUIS**	STRUCTURE CLASS :	STATBR	FUNCTIONAL CLASSIFICATION :	INTERSTATE	INSPECTION DATE :	10/15/2012
FACILITY CARRIED :	**IS 270 E**	DEFICIENT CODE :		LANES ON STRUCTURE	12	INSPECTION FREQUENCY :	24
CURB TO CURB :	164 Ft. 9 In.	SUB AREA :	7F21	LANES UNDER STRUCTURE :	3	LATITUDE :	38 38 36.33 (DMS)
STRUCTURE LENGTH :	179 FEET	YEAR BUILT :	1964	BEGINNING COMPASS DIRECTION :	NORTH	LONGITUDE :	90 26 56.98 (DMS)
FEATURE INTERSECTED :	**CST CONWAY RD**	RECONSTRUCTION YEAR	1984	ENDING COMPASS DIRECTION :	SOUTH	SCOUR EVALUATION TYPE :	

POSTING INFORMATION

APPROVED POSTING CATEGORY : S-1 LIMITS : NO POSTING REQUIRED NO POSTING REQUIRED
FIELD POSTING CATEGORY : S-1 LIMITS : NO POSTING REQUIRED NO POSTING REQUIRED
POSTING PROBLEM : DIRECTION :
COMMENTS :

ADVANCE SIGNING

SIGN TYPE :
PROBLEM :
DIRECTION :

FACILITY CARRIED INFORMATION

(ITEM 29) AVERAGE DAILY TRAFFIC : 100447 (ITEM 30) YEAR OF AVERAGE DAILY TRAFFIC : 2013
PERMITTED VERTICAL CLEARANCE : 13'10" CST CONWAY RD E
PERMITTED VERTICAL CLEARANCE : 13'10" CST CONWAY RD W
(ITEM 53) VERTICAL CLEARANCE OVER DECK : DATE :

OTHER INSPECTION INFORMATION

NBI : FREQUENCY :	NBI : FREQUENCY :	NBI : FREQUENCY :	NBI : FREQUENCY :
PIN : DATE :	PIN : DATE :	PIN : DATE :	PIN : DATE :
CATEGORY :	CATEGORY :	CATEGORY :	CATEGORY :
METHODS :	METHODS :	METHODS :	METHODS :
INSPECTORS :	INSPECTORS :	INSPECTORS :	INSPECTORS :
COMMENTS :	COMMENTS :	COMMENTS :	COMMENTS :

PROGRAM NOTES

PROGRAM YEAR : 2004 PROJECT NO. : J6U0976 LETTING MONTH 2 LETTING YEAR : 2004
COMMENTS : EDGE CLEANING AND SEALING
PROGRAM ITEMS : OTHER
PROGRAM YEAR : 2010 PROJECT NO. : J6I2010 LETTING MONTH 5 LETTING YEAR : 2010
COMMENTS : 3/4" UBAWS OVERLAY
PROGRAM ITEMS : WEARING SURFACE

GENERAL COMMENTS : (54'-68'-54') CONT VOIDED CONC SLAB SPANS (WIDENED)
RATINGS : **(ITEM 58) DECK RATING :** 4-POOR CONDITION 11/08/2012
COMMENTS : DECK TEST INDICATES EXTENSIVE FRACTURING OF DECK
GENERAL DECK DETERIORATION UNDER OVERLAY

(ITEM 59) SUPERSTRUCTURE RATING : 4-POOR CONDITION 11/08/2012
COMMENTS : SUPER SAGGING

(ITEM 60) SUBSTRUCTURE RATING : 6-SATISFACTORY CONDITION 07/13/2012
COMMENTS : MOD. SUBST. CRACKS W/ EFF.

SUMMARY COMPONENTS

MAIN SERIES 1 CONTINUOUS SPAN REINFORCED CONCRETE VOIDED SLAB NUMBER OF SPANS : 3
TOTAL NUMBER OF SPANS : 3

RAILING RATINGS :

(ITEM 36A) BRIDGE RAILING : 1 MEETS CURRENT STANDARDS **COMMENT S :**
(ITEM 36B) TRANSITION RAILING : 1 MEETS CURRENT STANDARDS **COMMENT S :**
(ITEM 36C) APPROACH RAILING : 1 MEETS CURRENT STANDARDS **COMMENT S :**
(ITEM 36D) RAIL END TREATMENT : 1 MEETS CURRENT STANDARDS **COMMENT S :**
(ITEM 36A) BRIDGE RAILING :
COMPONENT : BRIDGE RAILING REINFORCED CONCRETE SAFETY BARRIER CURB DIRECTION : BOTH
COMMENTS : CONCRETE MEDIAN BARRIER SEPARATES TRAFFIC

Design_No = A1052

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

(ITEM 36B) TRANSITION RAILING :

COMPONENT :	TRANSITION RAILING	GALVANIZED STEEL	THRIE BEAM TO W-BEAM	DIRECTION : BOTH-SOUTH	
COMPONENT :	TRANSITION RAILING	GALVANIZED STEEL	THRIE BEAM TO W-BEAM	DIRECTION : NORTHWEST	

(ITEM 36C) APPROACH RAILING :

COMPONENT :	APPROACH RAILING	GALVANIZED STEEL	W-BEAM	DIRECTION : BOTH-SOUTH	
COMPONENT :	APPROACH RAILING	GALVANIZED STEEL	W-BEAM	DIRECTION : NORTHWEST	

(ITEM 36D) RAIL END TREATMENT :

COMPONENT :	RAIL END TREATMENT	GALVANIZED STEEL	BREKAWAY SYSTEM	MANUFACTURE : ET-2000	DIRECTION : NORTHWEST
COMPONENT :	RAIL END TREATMENT	GALVANIZED STEEL	BREKAWAY SYSTEM	MANUFACTURE : ET-2000	DIRECTION : SOUTHEAST

APPROACH PAVEMENT :

COMPONENT :	APPROACH PAVEMENT	ASPHALT/CONCRETE	BITUMINOUS MAT/SLAB	DIRECTION : BOTH
CONDITION :	SPALLS	ENDS	MINOR	
COMMENTS :	@ JOINTS			

DECK / RAILING ELEMENTS

(ITEM 58) OVERALL CONDITION RATING : 4-POOR CONDITION

COMMENT S : DECK TEST INDICATES EXTENSIVE FRACTURING OF DECK

DECK COMPONENTS

MAIN SPANS 1

COMPONENT :	DECK	REINFORCED CONCRETE	CAST-IN-PLACE				
CONDITION :	PATCHES	THROUGHOUT	MODERATE				
CONDITION :	SATURATION	BOTTOM	MINOR	1 PERCENT			
CONDITION :	SPALLS	RANDOM	MINOR				
COMMENTS :	SB, RIGHT SHOULDER						

MAIN SPANS 2

COMPONENT :	DECK	REINFORCED CONCRETE	CAST-IN-PLACE				
CONDITION :	PATCHES	THROUGHOUT	MODERATE				
CONDITION :	SATURATION	BOTTOM	MINOR	3 PERCENT			

MAIN SPANS 3

COMPONENT :	DECK	REINFORCED CONCRETE	CAST-IN-PLACE				
CONDITION :	PATCHES	THROUGHOUT	MODERATE				
CONDITION :	SATURATION	BOTTOM	MINOR	1 PERCENT			

DRAINAGE COMPONENTS

DRAINAGE 0

COMPONENT :	DRAINAGE	OTHER	OTHER				
COMMENTS :	DRAIN BASINS AT NE AND NW CORNERS						

EXPANSION DEVICES

ABUTMENT 1

COMPONENT :	OPEN EXPANSION JOINT	REINFORCED CONCRETE	FORMED				

ABUTMENT 4

COMPONENT :	OPEN EXPANSION JOINT	REINFORCED CONCRETE	FORMED				

PROTECTIVE COMPONENTS

MAIN SERIES 1

COMPONENT :	WEARING SURFACE	ASPHALT	ULTRATHIN BONDED WS	OVERALL CONDITION : GOOD		THICKNESS : 2.75 INCH	YEAR APPLIED : 2010
COMMENTS :	3/4" UBAWS PLACED OVER 2" LOW SLUMP W.S. - (LOW SLUMP IN POOR CONDITION)						
CONDITION :	MAP CRACKS	THROUGHOUT	MANY				
CONDITION :	PATCHES	THROUGHOUT	MANY				
CONDITION :	TRANSVERSE CRACKS	DRIVING SURFACE	MEDIUM				
COMMENTS :	OPEN TRANSCRACKS OVER BENTS 2 AND 3 COORISPONDING TO SAGGING IN SPANS VISIBLE ON SHOULDERS.						
COMPONENT :	DECK PROTECTION	NOTAPPLICABLE	NONE				
COMPONENT :	MEMBRANE	NOTAPPLICABLE	NONE				

RAILING COMPONENTS

BRIDGE RAILING 0

COMPONENT :	BRIDGE RAILING	REINFORCED CONCRETE	SAFETY BARRIER CURB				
COMMENTS :	CONCRETE MEDIAN BARRIER SEPARATES TRAFFIC						
COMPONENT :	TRANSITION RAILING	GALVANIZED STEEL	THRIE BEAM TO W-BEAM				
COMPONENT :	TRANSITION RAILING	GALVANIZED STEEL	THRIE BEAM TO W-BEAM				
COMPONENT :	APPROACH RAILING	GALVANIZED STEEL	W-BEAM				

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COMPONENT :	APPROACH RAILING	GALVANIZED STEEL	W-BEAM
COMPONENT :	RAIL END TREATMENT	GALVANIZED STEEL	BREKAWAY SYSTEM
COMPONENT :	RAIL END TREATMENT	GALVANIZED STEEL	BREKAWAY SYSTEM

SUPERSTRUCTURE ELEMENTS

(ITEM 59) OVERALL CONDITION RATING : 4-POOR CONDITION

COMMENT S : SUPER SAGGING

MAIN SERIES 1 CONTINUOUS SPAN REINFORCED CONCRETE VOIDED SLAB NUMBER OF SPANS : 3

APPROACH ROADWAY WIDTH : 164 FOOT 9 INCH CURB TO CURB : 164 FOOT 9 INCH OUT TO OUT : 169.5 FOOT 0

MAIN SPANS 1 CONTINUOUS SPAN NON-COMPOSITE REINFORCED CONCRETE VOIDED SLAB LENGTH : 55 FOOT 7 INCH LENGTH : 68 FOOT 0 INCH WEATHERING IND : N

COMMENTS :

CONDITION :	REBAR EXPOSED	MANY	THROUGHOUT
CONDITION :	SPALLS	MODERATE	THROUGHOUT
CONDITION :	EFFLORESCENCE	MODERATE	THROUGHOUT
CONDITION :	DIAGONAL CRACKS	MANY	BOTTOM
CONDITION :	LONGITUDINAL CRACKS	MANY	BOTTOM
CONDITION :	DETERIORATION	HEAVY	EDGE
COMMENTS :	@ CONSTRUCTION WIDENING - REBAR EXPOSED. PRONOUNCED SAGGING THRU-OUT WIDENED SECTION.		
CONDITION :	TRANSVERSE CRACKS	MODERATE	THROUGHOUT

MAIN SPANS 2 CONTINUOUS SPAN NON-COMPOSITE REINFORCED CONCRETE VOIDED SLAB LENGTH : 68 FOOT 0 INCH WEATHERING IND : N

COMMENTS :

CONDITION :	REBAR EXPOSED	MANY	THROUGHOUT
CONDITION :	SPALLS	MODERATE	THROUGHOUT
CONDITION :	OTHER	NOT APPLICABLE	BOTTOM
COMMENTS :	RANDOM LEAKING AND MAP CRACKS		
CONDITION :	RUST STAINS	MODERATE	BOTTOM
COMMENTS :	IN EAST SIDE OF ORIGINAL SUPERSTRUCTURE		
CONDITION :	SATURATION	MODERATE	BOTTOM
CONDITION :	DETERIORATION	HEAVY	EDGE
COMMENTS :	@ CONSTRUCTION WIDENING - REBAR EXPOSED. PRONOUNCED SAGGING THRU-OUT WIDENED SECTION.		
CONDITION :	COLLISION DAMAGE	MINOR	BOTTOM
COMMENTS :	SCRAPED BY OVERHEIGHT LOADS.		
CONDITION :	LONGITUDINAL CRACKS	MINOR	BOTTOM

MAIN SPANS 3 CONTINUOUS SPAN NON-COMPOSITE REINFORCED CONCRETE VOIDED SLAB LENGTH : 55 FOOT 7 INCH WEATHERING IND : N

COMMENTS :

CONDITION :	REBAR EXPOSED	MANY	THROUGHOUT
CONDITION :	SPALLS	MODERATE	THROUGHOUT
CONDITION :	LONGITUDINAL CRACKS	MODERATE	BOTTOM
CONDITION :	SATURATION	MINOR	BOTTOM
COMMENTS :	RUSTAINS LEAKING EAST SIDE IN ORGIONAL SPAN		
CONDITION :	DETERIORATION	HEAVY	EDGE
COMMENTS :	@ CONSTRUCTION WIDENING - REBAR EXPOSED. PRONOUNCED SAGGING THRU-OUT WIDENED SECTION.		

TOTAL NUMBER OF SPANS 3

SUBSTRUCTURE ELEMENTS

(ITEM 60) OVERALL CONDITION RATING : 6-SATISFACTORY CONDITION

COMMENT S : MOD. SUBST. CRACKS W/ EFF.

ABUTMENT 1 LABEL : REINFORCED CONCRETE INTEGRAL

LEFTADVAN SKEW : 38 DEGREES 0 RIGHTADVAN LENGTH : 213 FOOT 5 INCH

BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE
CONDITION :	VERTICAL CRACKS	BEAM CAP	MODERATE	
CONDITION :	EFFLORESCENCE	BEAM CAP	MODERATE	
PILING			STEEL	H-SHAPE
TURNED BACK WINGS			REINFORCED CONCRETE	CAST-IN-PLACE

Design_No = A1052

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

OPEN EXPANSION JOINT — REINFORCED CONCRETE — FORMED — OVERALL CONDITION:

BENT 2 LABEL : — REINFORCED CONCRETE — MULTIPLE COLUMN

LEFTADVAN SKEW : 38 DEGREES 0

COLUMN — REINFORCED CONCRETE — INTEGRAL CAST-IN-PLACE

CONDITION : HORIZONTAL CRACKS — THROUGHOUT — FINE

COMMENTS : HAIRLINE COLUMN CRACKING AT COLS 1,2,9,11,AND 14 IN BASE AND /OR TOP

CONDITION : EFFLORESCENCE — AT BEAM CAP — MODERATE

COMMENTS : W/ STALACTITES

FOOTING — REINFORCED CONCRETE — H-PILE

FOOTING — REINFORCED CONCRETE — SPREAD

BENT 3 LABEL : — REINFORCED CONCRETE — MULTIPLE COLUMN

LEFTADVAN SKEW : 38 DEGREES 0

COLUMN — REINFORCED CONCRETE — INTEGRAL CAST-IN-PLACE

CONDITION : EFFLORESCENCE — AT BEAM CAP — HEAVY

COMMENTS : AT INTEGRAL CAP W/ STALACTITES

FOOTING — REINFORCED CONCRETE — H-PILE

FOOTING — REINFORCED CONCRETE — SPREAD

ABUTMENT 4 LABEL : — REINFORCED CONCRETE — INTEGRAL

COMMENTS : ABUT REPAIRS BY CONTRACT (U.C.)

LEFTADVAN SKEW : 38 DEGREES 0 RIGHTADVAN LENGTH : 213 FOOT 5 INCH

BEAM CAP — REINFORCED CONCRETE — CAST-IN-PLACE

CONDITION : EFFLORESCENCE — THROUGHOUT — MINOR

CONDITION : VERTICAL CRACKS — THROUGHOUT — FEW

CONDITION : OTHER — BEAM CAP — NOT APPLICABLE

COMMENTS : ONE AREA CHIPPED, SAWED, AND SEALED

CONDITION : REBAR EXPOSED — BEAM CAP — MINOR

PILING — STEEL — H-SHAPE

TURNED BACK WINGS — REINFORCED CONCRETE — CAST-IN-PLACE

OPEN EXPANSION JOINT — REINFORCED CONCRETE — FORMED — OVERALL CONDITION:

MISCELLANEOUS ITEMS

1 MEETS CURRENT STANDARDS

COMMENTS : DECK TEST INDICATES EXTENSIVE FRACTURING OF DECK

COMMENTS : GENERAL DECK DETERIORATION UNDER OVERLAY

COMMENTS : SUPER SAGGING

COMMENTS : MOD. SUBST. CRACKS W/ EFF.

CHANNEL PROTECTION (ITEM 61) CHANNEL CONDITION RATING : N-NOT APPLIC NO WATRWAY

SCOUR CONDITION (ITEM 113) OVERALL SCOUR CONDITION RATING : N-NOT APPLIC NOT WATERW

WATERWAY ADEQUACY (ITEM 71) WATERWAY ADEQUACY RATING : NOT APPLICABLE

APPROACH ROADWAY (ITEM 72) APPROACH ROADWAY ALIGNMENT RATING : 8-VERYGOOD

SLOPE PROTECTION

PLAIN CONCRETE PAVEDSLOPE BOTH

UTILITY ATTACHMENTS

STRUCTURAL SIGN MOUNTED

COMMENTS : VC SIGN ATTACHED TO SPAN 2, BOTH DIRECTIONS

STRUCTURE PAINT DETAILS

OVERALL PAINT CONDITION RUST AMOUNT : STEEL TONS :

ORIGINAL PAINT	CONTRACT REPAINT	DEPARTMENT REPAINT	
PAINT TYPE :	PAINT TYPE :	PAINT TYPE :	MANUFACTURE :
NAME :	NAME :	NAME :	SURFACE PREPARATION :
PAINT COLOR :	PAINT COLOR :	PAINT COLOR :	
PAINT YEAR :	PAINT YEAR :	PAINT YEAR :	
MILS :	MILS :	MILS :	

CREW : LAYER : DATE :

Design_No = A1052

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

WORK

RESPONSIBILITY	LOCATION	WORK ITEM	PRIORITY	DATE REQUESTED
DISTRICT SPECIAL	APPROACH SLAB / WING	SEAL JOINTS - HOT POUR	3	07/13/2010
COMMENTS :	ALSO, HOT POUR @ ABUT 4.			
DISTRICT ROUTINE	SEE COMMENT	REPAIR DRAIN BASIN	2	07/13/2012
COMMENTS :	NW QUAD. - FILL SCOUR HOLE & REPAIR BASIN			
	ROADWAY SURFACE	CLEAN AND FLUSH	3	12/15/2012

PROGRAM RECOMMENDATIONS

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FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET
5	MO.	I-244-4(25)	24
DIST. NO.	COUNTY		STATE SEC.
6	ST. LOUIS		

I-244
PP 24

465

470

S4°50'05"W

℄ RTE. I-244

±50
195'

℄
49.13'

℄
125'

℄
147'

℄

±50
195'

Transfered TO
Hubert L. & Patricia
W. Ferber By Deed
Dated 2-14-74

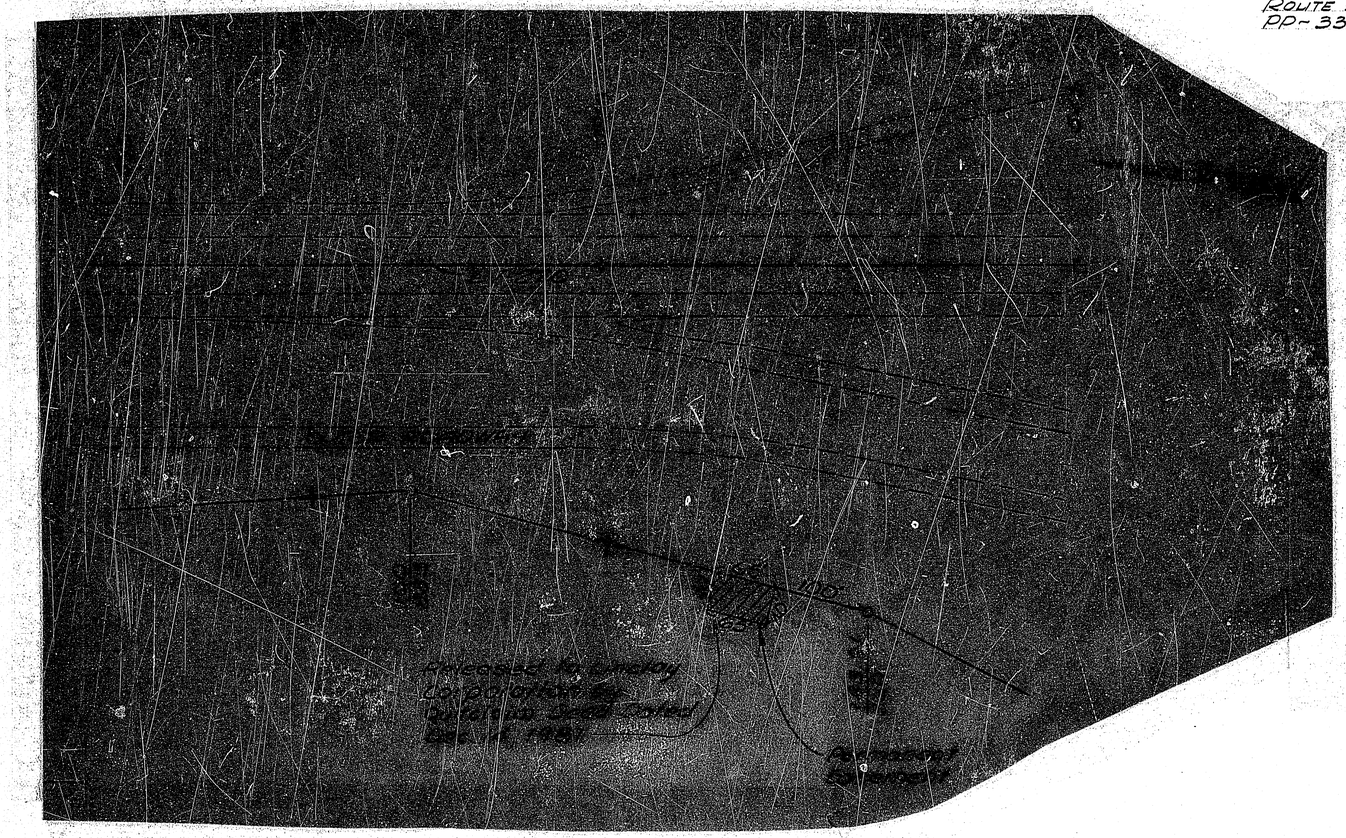
Transfered To
Carl M. & Gene M.
Trammel By Deed
Dated 2-14-74

23

790

SEC. NUMBER NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)	
DIST. NO.	COUNTY	SHEETS	NO.
6	ST. LOUIS		

ROUTE I-244
PP-33



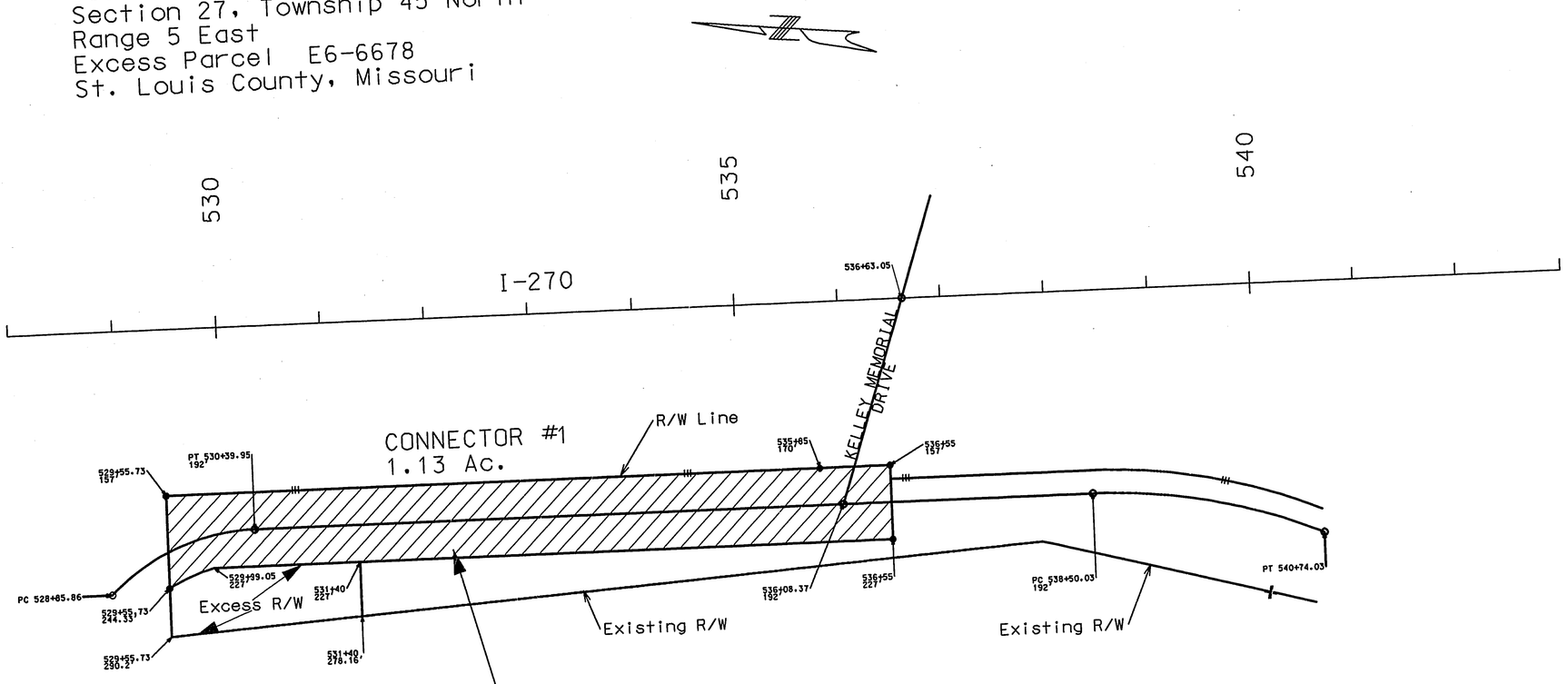
79

990 12 TO 1

ROUTE	STATE	DISTRICT	SHEET NO.
I-270	MO	6	
JOB NO. J610651			
PROJECT NO. I-244-4(25)			
COUNTY ST. LOUIS		DATE	

Roll #0583
Exposure #449
pp ~ 33 Exp. 449

Des Peres Road (Connector #1)
Section 27, Township 45 North
Range 5 East
Excess Parcel E6-6678
St. Louis County, Missouri



Conveyed to St. Louis County by Quitclaim Deed
of September 29, 1997

55

1808 | 12 to 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

ROUTE	STATE	DISTRICT	SHEET NO.
I-244	MO	6	32

JOB NO.

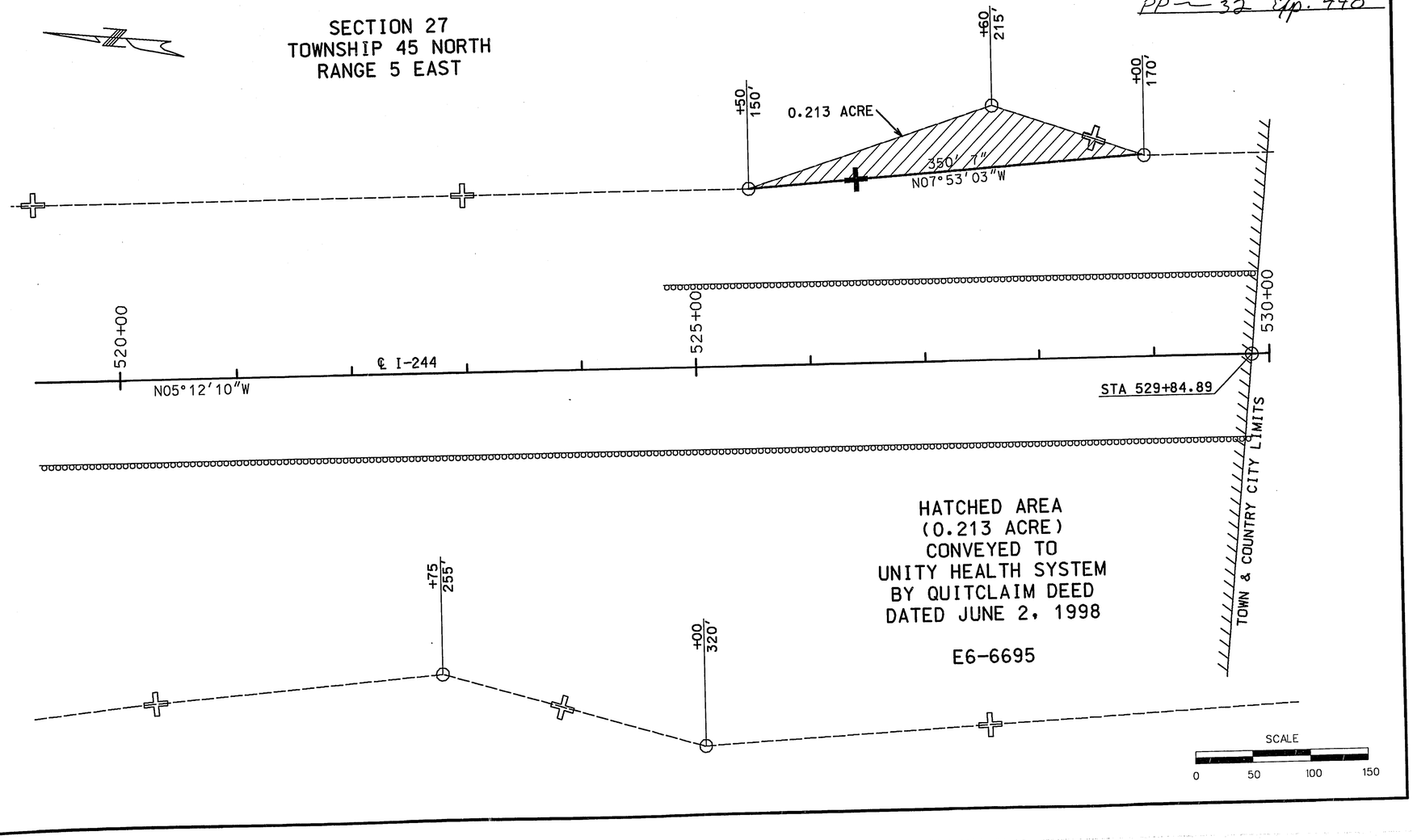
PROJECT NO. I-244-4(25)

COUNTY ST. LOUIS

DATE

ORIGINAL MICROFILM ROLL #583
EXPOSURE #448
PP ~ 32 Exp. 448

SECTION 27
TOWNSHIP 45 NORTH
RANGE 5 EAST



147

1808 | 12 to 1

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS (6 Sheets)	2
SUMMARY (10 Sheets)	2-A
PLAN-PROFILE & B SHEETS	3-34
REFERENCE POINTS	
SPECIAL SHEETS	
LIGHTING	35~36
SIGNALS	37~41
SIGNING	42~52
CULVERT SECTIONS	106~110
BRIDGE PLANS	
STANDARDS (91 Sheets)	
CROSS SECTIONS	80~105

DESIGN DESIGNATION

A.D.T. (1962) = 14,186
A.D.T. (1975) = 42,556
D.H.V. (1975) = 1,140
D = 55%
T = 10%
V = 70 m.p.h.

Sta 395+00, End Proj. I-IG-244-4(24)

Sta 547+32.4 End Proj. I-244-4(23)
Sta 547+32.4 Beg. Proj. I-244-4(24)

PROJ. I-244-4(25) 274

G.E. Bridges, 2-24' Conc. Pavements & O. Rdwys. Federal Share Length 2.807 Mi.

Sta 395+00, Beg. Proj. I-244-4(25)

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

ST. LOUIS COUNTY

LIMITED ACCESS HIGHWAY

This project is partially limited access highway from Sta. 0+00 to Sta. 547+32.4 and Sta. 547+32.4 to Sta. [illegible]. No abutting owner shall have any right of access to, from or across the highway except that access will be permitted to any abutting property at such points and in such manner as may be permitted by the highway authority as will best promote the safety, convenience and necessity of the traveling public. No right of access is granted on this plan. No access will be permitted from other roads to the highway at any point constituting a hazard to traffic.

LEGEND

- Beginning and Ending of Limited Access
- Limited Access
- No right of access or crossing of, line between this symbol will be permitted under any circumstances

COUNTY
ST. LOUIS
STATE ROUTE NO.
I-244
PROJECT NO.
I-244-4(25)274

FINAL PLANS

JUN 18 1964

KEY MAP
SHOWING LOCATION OF COUNTY

CONVENTIONAL SYMBOLS

- STATE LINE
- COUNTY LINE
- CITY LIMITS
- TOWNSHIP OR RANGE LINE
- OTHER LAND SURVEY LINES
- FENCE LINE
- GUARD RAIL
- PROPERTY LINE
- RIGHT OF WAY LINE
- RIGHT OF WAY MARKER
- RAILROAD
- SURVEY CENTER-LINE
- CULVERT
- OVERHEAD TELEPHONE NEW
- OVERHEAD TELEPHONE EXIST.
- EXISTING BUILDINGS & STRUCTURES
- GROUND LINE
- GRADE LINE
- OVERHEAD POWER-EXIST
- OVERHEAD POWER-NEW
- UNDERGROUND GAS-NEW
- UNDERGROUND WATER-EXIST

TITLE SHEET LEGEND

- INTERCHANGE
- GRADE SEPARATION
- CONSTRUCTION IDENTIFICATION SIGNS

SCALE OF TITLE SHEET
-1 -0.5 0 1 2 3 4 5
MILES

SUBMITTED BY _____ DATE _____

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

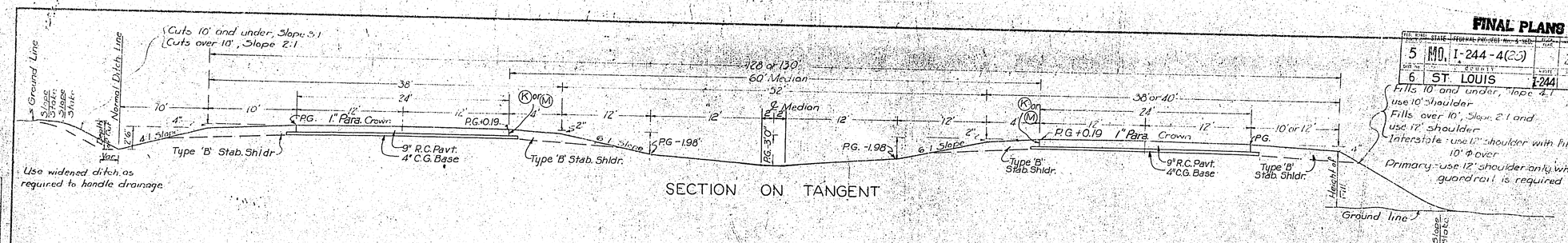
DIVISION ENGINEER _____ DATE _____

FINAL PLANS

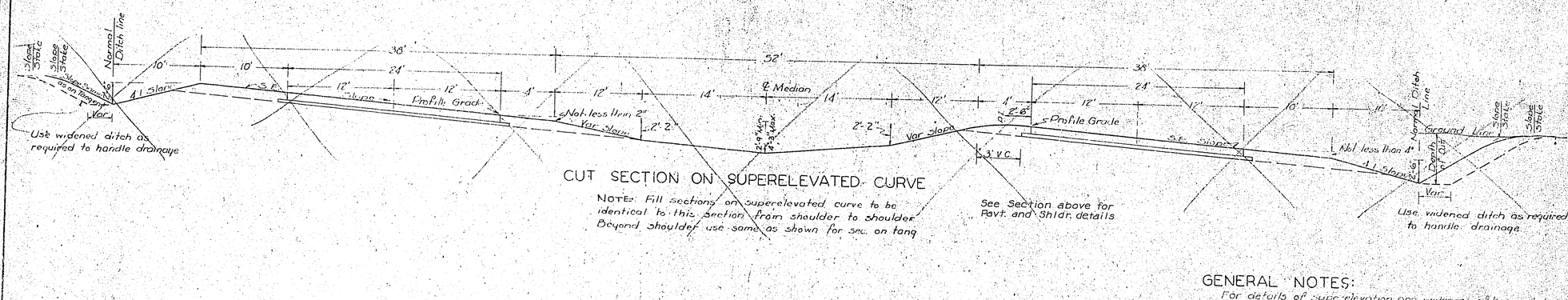
583

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
5	MO.	I-244-4(23)	2	
DIST. NO.	COUNTY		SHEET NO.	
6	ST. LOUIS		I-244	

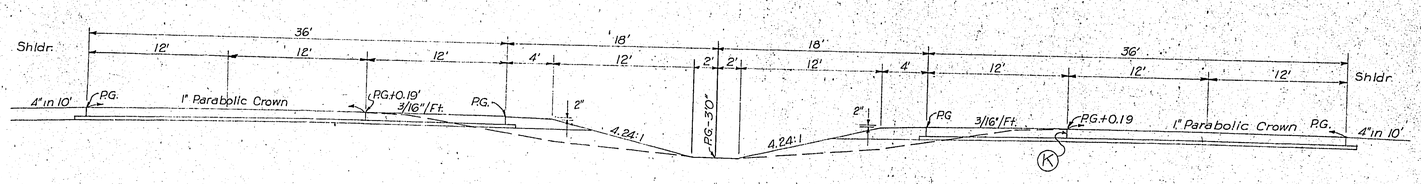


SECTION ON TANGENT



CUT SECTION ON SUPERELEVATED CURVE

NOTE: Fill sections on superelevated curve to be identical to this section from shoulder to shoulder. Beyond shoulder use same as shown for sec. on tang.



SECTION ON TANGENT 2ND STAGE

GENERAL NOTES:

For details of superelevation and widening of horizontal curves, undergrading, rounding, all pavement appurtenances, drainage items, etc., see other drawings & Std. Dwg 2140.

In transitioning from one cut or fill to another, use a 25' transition beginning at a point 25' back along that which would normally be the flatter slope and ending the transition at the actual point where the steeper slope is required. If the actual limits requiring a steeper slope is less than 25' in length, do not change to the steeper slope.

All information shown on these "Typical Sections" is for the purpose of indicating general design and const. details. Actual const. of roadway widths, slopes and depths, and type of ditches, undergraded cuts and other features shall conform to the details shown on Plan and Profile and cross section sheets, or as directed by the Engineer.

MISSOURI STATE HIGHWAY COMMISSION

INTERSTATE SYSTEM

TYPICAL SECTIONS

FOR

2-24 FT. PAVEMENTS

ON

128-130 FT. ROADBEDS WITH 60 FT. MEDIAN

ROUTE | PROJ. OR SEC. | COUNTY

APPROVED R. M. Hunter ENGR. SURVEYS & PLANS

APPROVED [illegible] CHIEF ENGINEER

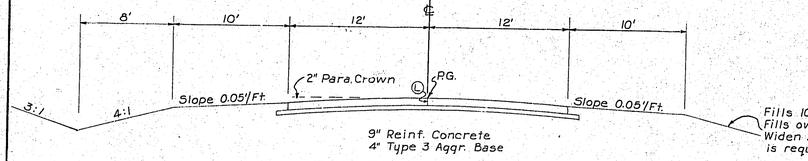
SHEET 1 OF 6

MODIFIED FINAL PLANS 21.31

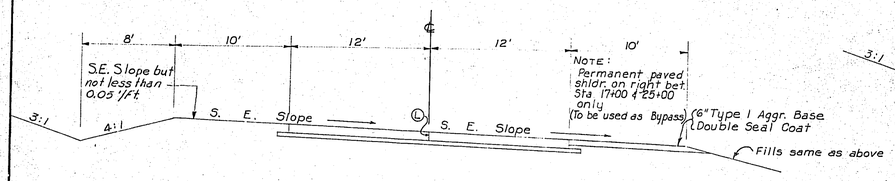
402

583

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4([illegible])		2
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	

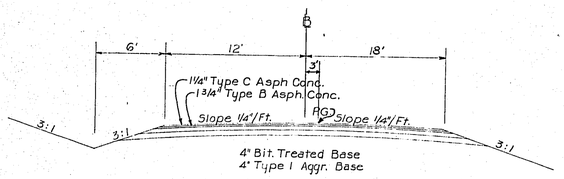


TANGENT SECTION

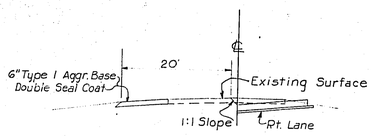


SUPERELEVATION SECTION

CONWAY ROAD

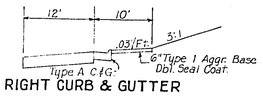


BYPASS FOR CLAYTON ROAD



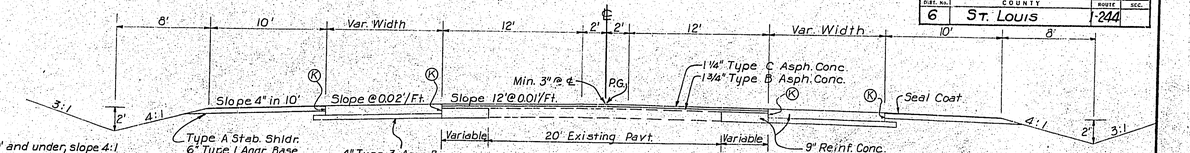
TEMPORARY BYPASS LEFT OF CONWAY RD.

STA. 17+00 TO STA. 25+00



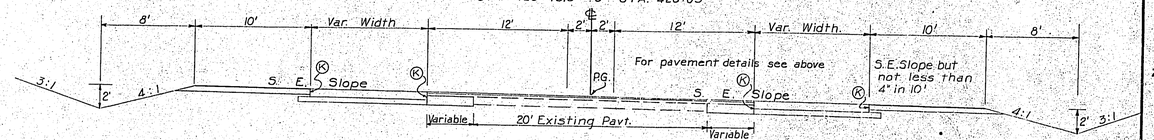
RIGHT CURB & GUTTER
CONWAY ROAD

Sta. 20+00 to Sta. 25+00



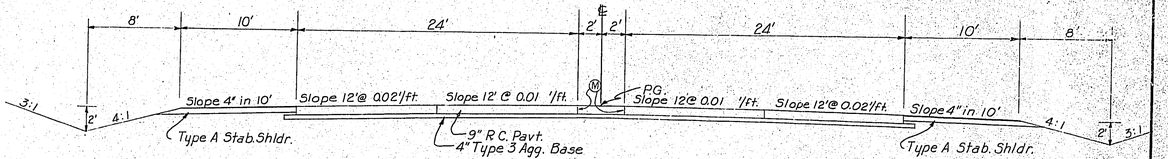
TANGENT SECTION

STA. 414+00 TO STA. 417+03.5
STA. 425+49.8 TO STA. 428+05



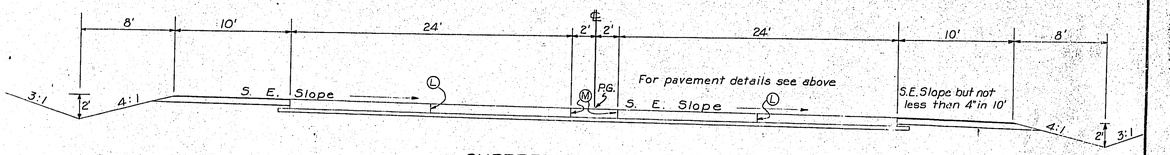
SUPERELEVATION SECTION

STA. 414+00 TO STA. 417+03.5
STA. 425+49.8 TO STA. 428+05



TANGENT SECTION

STA. 417+03.5 TO STA. 425+49.8



SUPERELEVATION SECTION

STA. 417+03.5 TO STA. 425+49.8

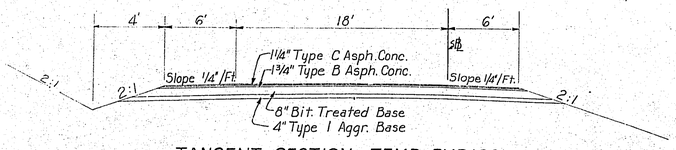
CLAYTON ROAD

See Std. 48.10 for Joint Legend

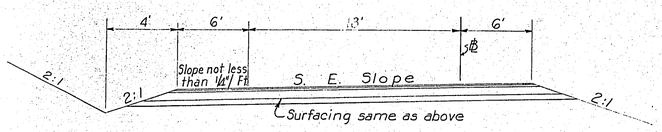
TYPICAL SECTION
CONWAY ROAD
CLAYTON ROAD
BYPASS

583

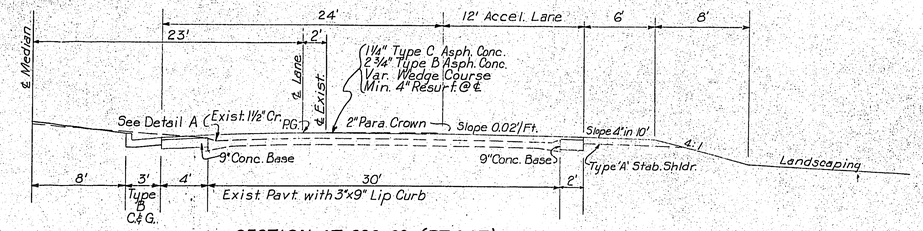
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-244-4(25)		2
DIST. No.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	



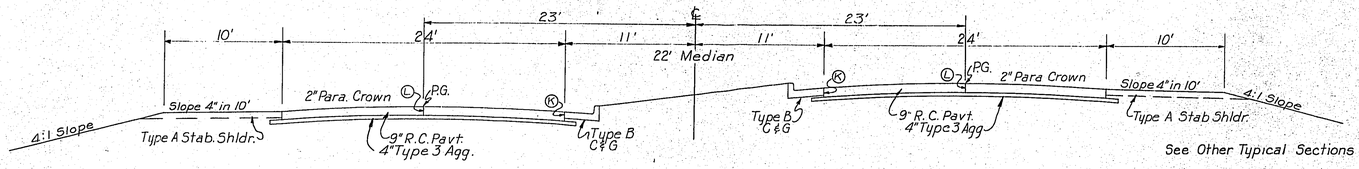
TANGENT SECTION ~ TEMP. BYPASS



SUPERELEVATED SECTION ~ TEMP. BYPASS



SECTION AT 696+00 (RT. & LT.)

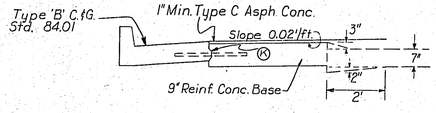


See Other Typical Sections for Shoulder Details

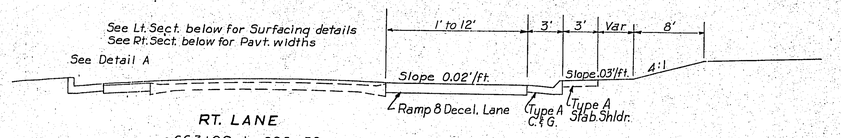
LT. LANE

RT. LANE

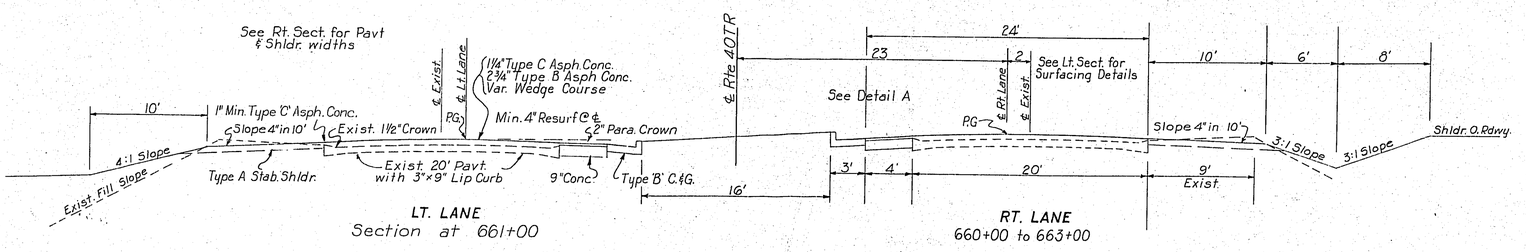
TYPICAL SECTION ROUTE 40TR



DETAIL A



RT. LANE
663+00 to 666+50



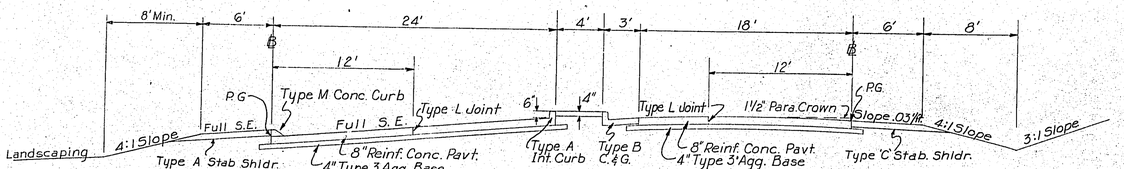
LT. LANE
Section at 661+00

RT. LANE
660+00 to 663+00

TYPICAL SECTION
ROUTE 40TR
Sheet 3 of 6
FINAL PLANS

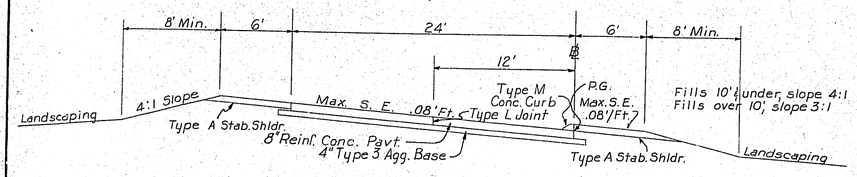
583

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		2
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	



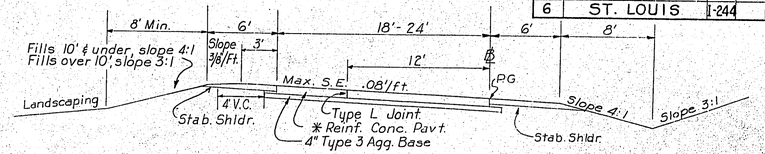
RAMPS 3 & 5
Sta. 6+93.7 Ramp 3
Sta. 6+50.4 Ramp 5

RAMPS 1 & 7
Sta. 10+50.5 Ramp 7
Sta. 8+54.4 Ramp 1

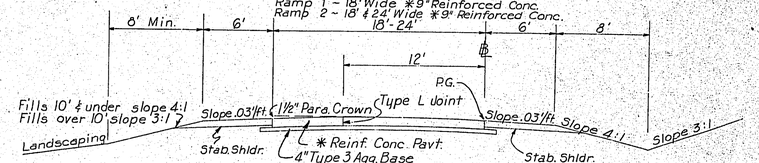


RAMPS 3, 4, 5, 6

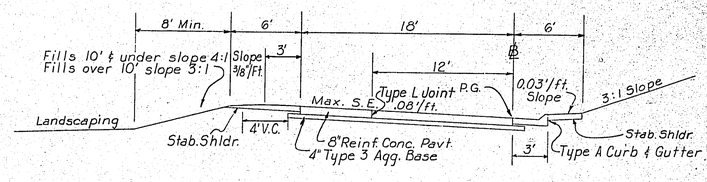
Stabilized Shoulders				
Ramp	Type A Sta.	Sta.	Type C Sta.	Sta.
1	13+28.1	17+75.0	0+00	13+28.1
2	1+49.6	6+09.4	6+09.4	18+00
2	18+00	20+32.1		
7	1+49.59	5+53.5	5+53.5	19+84.0
8	0+00	2+50	2+50	12+52.9
8	12+52.9	18+19		
Lt. Rte. 40	666+70	668+77.8	664+77.8	666+70



SUPERELEVATED SECTION OUTER RAMP ~ 40TR
Ramps 1, 2, 7, 8 * 8" Reinforced Conc.
ROUTE 100
Ramp 1 ~ 18' Wide * 9" Reinforced Conc.
Ramp 2 ~ 18' & 24' Wide * 9" Reinforced Conc.



TANGENT SECTION OUTER RAMP ~ 40TR
Ramps 1, 2, 7, 8 * 8" Reinforced Conc.
ROUTE 100
Ramp 1 ~ 18' Wide * 9" Reinforced Conc.
Ramp 2 ~ 18' & 24' Wide * Reinforced Conc.



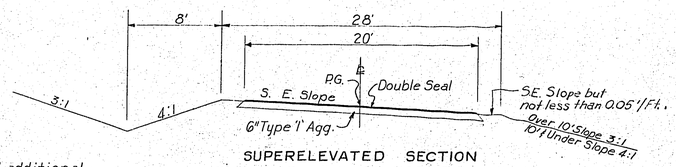
OUTER RAMPS 1 & 7
Sta. 0+00 to 4+00 Ramp 1
Sta. 15+00 to 19+84 Ramp 7

TYPICAL SECTION
RAMPS - RTE. 40TR INTERCHANGE
RAMPS - RTE. 100 INTERCHANGE

SHEET 4 OF 6

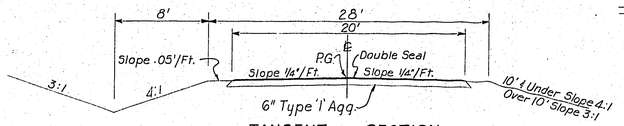
583

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-244-4(35)		2
DIST. No.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	

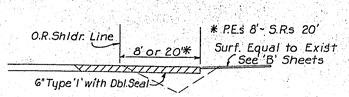


SUPERELEVATED SECTION
Clayton Road to Sta. 490+00 on Left

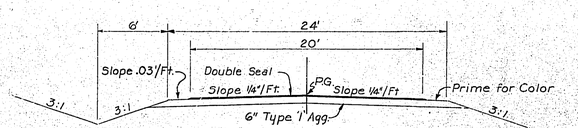
Widen fills 2' additional where guardrail is to be constructed.



TANGENT SECTION
Clayton Road to Sta. 490+00 on Left

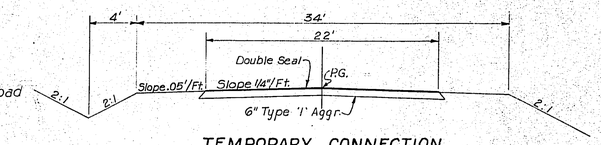


ENTRANCES & SIDE ROADS
O.R.Lt. Clayton Rd. to Sta. 490+00
O.R.Lt. Rte. 40TR. Sta. 694+65 to Ballas Road



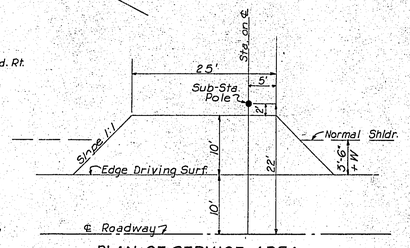
TANGENT SECTION

P.E. Lt. Sta. 123+60 Ballas Rd.
Sta. 694+65 Lt. Rte. 40TR to Ballas Rd. (Outer Rdwy.)



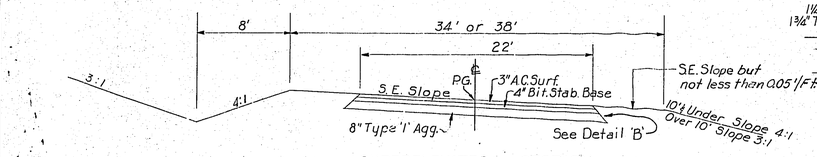
TEMPORARY CONNECTION

Sta. 17+86.9 Conway Rd. to Sta. 398+81.7 O. Rd. Rt.



PLAN OF SERVICE AREA
FOR SUB-STATION MAINT.
ADJACENT TO OUTER RDWY.

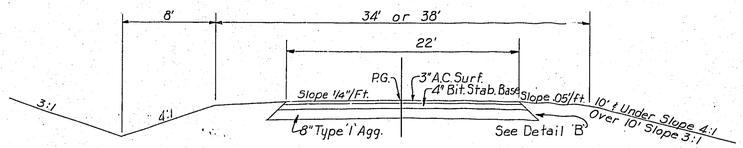
See Plans for locations
Gravel (A) or Crushed Stone (B), Surfacing (6")
Additional grading incl. w/ Rdwy. quantities.
Adjust Guard Rail where encountered, to provide minimum 8' wide service area.



SUPERELEVATED SECTION

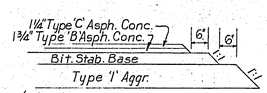
Conway Rd. to Rte. 40	22' Surf. - 34' Rdwy.
Rte. 40 to Clayton Rd.	22' Surf. - 34' Rdwy. on Rt.
Clayton Rd. to Sta. 544	22' Surf. - 38' Rdwy on Rt.

Widen fills 2' additional where guardrail is to be constructed

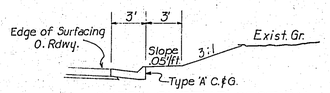


TANGENT SECTION

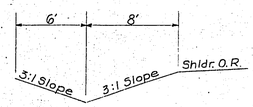
Conway to Rte. 40	22' Surf. - 34' Rdwy
Rte. 40 to Clayton Rd.	22' Surf. - 34' Rdwy. on Rt.
Clayton Rd. to Sta. 544	22' Surf. - 38' Rdwy. on Rt.



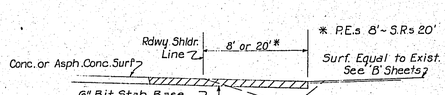
DETAIL B



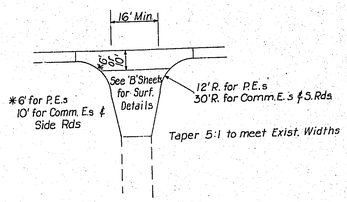
CURB & GUTTER SECTION
S.W. Quad. Sta. 660+00 40TR
to Sta 416+30 O.R. Rt.



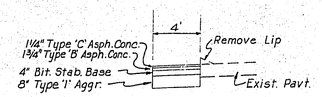
SPECIAL DITCH SECTION LEFT OF O.RDWY.
S.W. Quad. Sta. 660+00 to 663+00 O.R. Rt.



ENTRANCES & SIDE ROADS
O. R. Rt. Conway Rd. to Rte. 40TR
O. R. Rt. Rte. 40TR to Rte. 100
Conway Rd., Clayton Rd.



DETAILS FOR PAVED APPROACHES

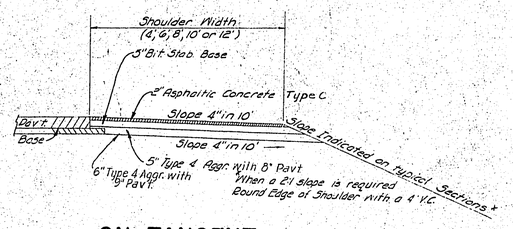


4' WIDENING ON RAMPS
RIGHT OF BALLAS ROAD
STA. 125+ & STA. 129+

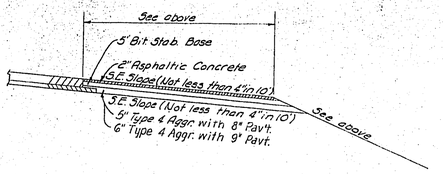
TYPICAL SECTION
OUTER ROADWAYS
Sheet 5 of 6

583

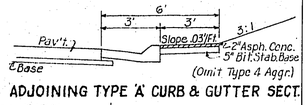
5	MO.	I-244-4(_J)	2
6	ST. LOUIS	I-244	



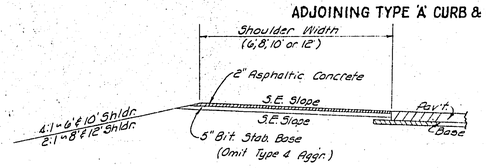
ON TANGENT



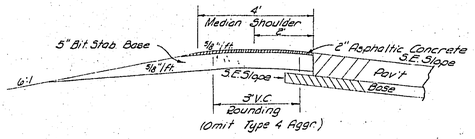
ON SUPERELEVATED CURVE (LOW SHLDR)



ADJOINING TYPE 'A' CURB & GUTTER SECT.

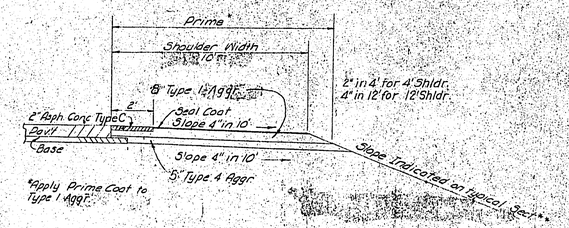


ON SUPERELEVATED CURVE (HIGH SHLDR)

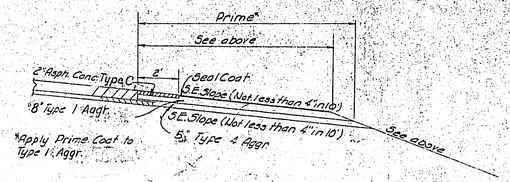


ON SUPERELEVATED CURVE (HIGH SHLDR)

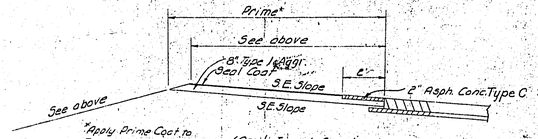
TYPE C SHOULDER



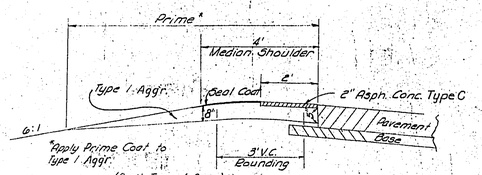
ON TANGENT



ON S.E. CURVE (LOW SHLDR)



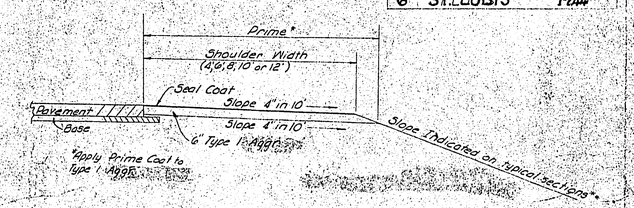
ON S.E. CURVE (HIGH SHLDR)



ON S.E. CURVE (HIGH SHLDR)

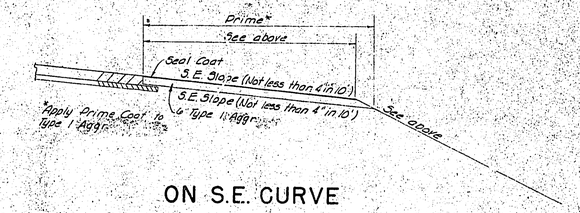
TYPE B SHOULDER

Note: This drawing is not to scale, Follow Dimensions



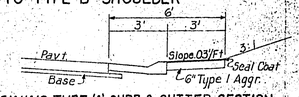
ON TANGENT

NOTE: 660+17 to 663+00 Rt. & Lt. Rte. 40 - Omit 2nd Appl. Bit. Mat'l.
695+11 to 699+40 Rt. Rte. 40 - Omit 2nd Appl. Bit. Mat'l.
695+63.5 to 699+40 Lt. Rte. 40 - Omit 2nd Appl. Bit. Mat'l.

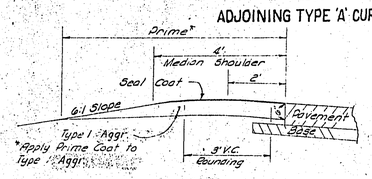


ON S.E. CURVE

HIGH SHOULDER ON S.E. CURVE IS SIMILAR TO TYPE B SHOULDER



ADJOINING TYPE 'A' CURB & GUTTER SECTION



ON S.E. CURVE (HIGH SHLDR)

TYPE A SHOULDER

STABILIZED SHOULDER DETAILS
FOR 9" CONCRETE PAVEMENT

TYPICAL SECTION SHEET NO 6 OF 6

583

S & P - 2AS

LOCATION NORTH OF 40TR SOUTH TO NORTH OF ROUTE 100

TYPE GRADING, CULVERTS, BRIDGES, LIGHTING, TRAFFIC SIGNALS, SIGNS & 2-24' CONCRETE PAV'TS.

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 1 of 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		BA	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St. Louis			I-244	

EXCAVATION

Station	Cl. A	Cl. C	C. Comp.	F. Comp.	M.G.	I.O.H.	Remarks
I-244							
388+00							
398+42	18744			21115			Includes Culvert Outlet Excavation
400+18							Bridge
410+87	37187			30901			Includes Culvert Outlet Excavation
Conway Rd.							
3+00							
8+86	9133			804			Incls. Underdrain. See Sheet #53
85+00	63121			437			
O.R. Rt.							
398+14							
419+85	26407			21540			Incls. Underdr. See Sheet #53
420+97	25			6302			
659+50	4180		443	3449			
I-244							
410+87							
416+078	11180			54587			
412+058							Bridge
467+38	394295		806	200866	4849351		Incls. Underdrain. See Sheet #53
Rte. 40 TR							
659+50							
668+85	1432			1186			
678+46	340			159063			
699+40	42256			35024			
OR-N.E.							
694+65							
132+11	2364			390			
Ballas Rd							
123+00							
124+00	90			7.8			Adjs. Wexford to meet Parking Lot
W.B. Bypass							
13+28							
64+09	421						
17+00							
664+60	573						
E.B. Bypass							
662+66							
2+50	1205						
12+52							
5+33	1404						
Ramp "1							
3+44							
16+69	166742			133			
Ramp "2							
4+85							
18+40	78718			46897			
Ramp "7							
3+05							
16+55	55081			58158			
Ramp "8							
3+40							
16+20	154351			118332			
O.R. Rt.							
659+50							
429+53	7293			6056			No Overhaul Allowed
439+00	6793		125	6606			Incls. Underdr. See Sheet #53
Clayton Rd.							
413+75							
419+58	706			781			
422+60							Bridge
428+47	1380			628			
Clayton Byp.							
411+55							
419+59	173			94			
422+61							
424+70	403			4			
Walt Byp.	712						
I-244							
467+38							
480+61	637289		278	53167			
484+00	107339		500	8950			
527+73	339539	19298	2130	295037	*	2834946	See Sheets "80 thru 99
536+04	76071	2937		65756	*	"	" " 100 thru 103
544+00	502335	3505		43714	*	"	" " 104 thru 105
Sub-Totals	1482106	25740	4282	1239971	7.8	7684297	* See Sheet #53
Rounding	2158						
TOTALS	1490264	25740	4282	1239971	7.8	7684297	

LENGTH OF PROJECT

End of Project	Station	543+21.22	
Beginning of Project	Station	395+00	
Apparent Length		1482122	Feet
Equations and Exceptions:		NONE	
Total Corrections		0	Feet
Net Length of Project		1482122	Feet
State Length =		2.807	Miles
Federal Length =		2.807	Miles

BOX CULVERTS

Station	Loc.	Std.	Size	Skew	Length	Class B	Reinf.	Class 3	W/W Slope	Remarks	See Sheet #
623+10	Lt. Rte. 40	53.20	5'x4'	45° R.A.	240	135.8	15350	1093	1½:1	Built in Sects.	#106
440+36	I-244	53.20	5'x4'	31° L.A.	336	177.6	19650	441	1½:1	" " " "	#107
478+95	I-244	53.20	6'x5'	7° R.A.	398	245.9	27230	814	1½:1	" " " "	#108
515+97	I-244	53.20	5'x4'	Rt. &	397	222.6	24990	529	1½:1	" " " "	#109
525+94	I-244	53.20	5'x5'	20° L.A.	475	318.3	34410	564	1½:1	" " " "	#110
				TOTALS	1099.9	121630		3441			

REINF. CONCRETE CULVERT PIPE CLASS III

Station	Loc.	12"	15"	18"	24"	30"	36"	42"	Std.	Type Hdwl.	Skew	Conc. Cl. B	Reinf. Steel	Cl. 3 Exc.	Drains From	Drains To	Remarks
396+40	℄				212						7° L.A.	2.1	280	76			Built Hdwls. on 10° Skew
400+35	℄			68							Rt. ℄			101	32 E.E.	Howell	
400+12	Q.R. Rt.							48		53.40	2-C	25° L.A.	4.3	370	22		
31+90	Conway		76							53.40	1-C	10° R.A.	0.7	60	10		
5+50	Conway			60						53.40	1-C	20° L.A.	1.0	80	21		
19+64	Conway					70				53.40	2-C	35° L.A.	5.0	410	62		
21+03	23S Rt.	8													2	67-1E	66-1G
22+79	23S Rt.	8													2	68-1E	66-2G
21+03	To																
22+79	13S Rt.	171								53.40	1-C		0.5	40	4		
22+79	To 13S Rt.	6								53.40	1-C		0.5	40	4		
25+21	22S Rt.			241						53.40	1-C		0.8	60	31		
662+96	O.R. Rt.	46								53.40	1-C		0.5	40	4		
15+50	℄ Rte. 1			52											8	5-1G	5-2G
13+79	℄ Rte. 1				139							37°28' L.A.			30	5-2G	5-3EE
4+00	℄ Rte. 3	10								53.40	1-C		0.5	40	4		
5+00	℄ Rte. 3	10								53.40	1-C		0.5	40	4		
11+30	℄ Rte. 3			50						53.40	1-C		0.8	60	31		
12+75	℄ Rte. 3	10								53.40	1-C		0.5	40	4		
684+00	℄ 40TR	171													8	5-1G	5-2G
684+00	Lt. 40TR	52													30	5-2G	5-3EE
691+55	℄ 40TR	17													8	12-G	13-G
691+55	Lt. 40TR	48								53.40	1-C		0.5	40	26		
2+00	℄ Rte. 5				72					53.40	2-C	35° L.A.	3.6	340	6		
10+73	℄ Rte. 5						148			53.40	2-C	50° R.A.	6.6	530	0		
419+00	℄		68												114	2-1EE	Howell
6+83	℄ Rte. 7				37					53.40	2-C		2.5	250	25		
680+00	To																
684+00	℄ Lt. 40TR						397								220	5-3EE	5-4EE
680+00	Lt. 40TR	52													6	6-2G	5-4EE
To 312068	℄ Rte. 4						257								328	5-4EE	5-5EE
5+00	℄ Rte. 4	11								53.40	1-C		0.5	40	4		
3+08	℄ Rte. 4	18								53.40	1-C		0.5	40	6		
3+20 Rte. 4 To Rte. 62	320 Lt. 40TR							440							619	5-5EE	5-6EE
680+00	℄ 40TR	17													4	6-2G	6-1G
676+75	℄ 40TR	17													4	22-G	23-G
676+75	Lt. 40TR	48								53.40	1-C		0.5	40	13		
673+50	℄ 40TR	17													5	7-1G	7-2G
673+50	Lt. 40TR	102													40	7-2G	5-6EE
670+25	℄ 40TR	17													4	25-G	26-G
670+25	Lt. 40TR	86								53.40	1-B		0.4	30	49		
667+00	℄ 40TR	37													12	27-G	28-G
667+00	℄ 40TR	17													8	28-G	29-G
667+00	Lt. 40TR	60								53.40	1-C		0.5	40	32		
627+60	℄ 40TR	106													48	4-1G	4-2G
3/12+100	℄ Rte. 1														63	4-2G	4-3G
3/13+50	Lt. 40TR	111													92	4-3G	4-4G
12+100	℄ Rte. 1														109	4-4G	4-5E
12+100	Rt. 40TR	129													61	4-5E	4-6E
3/88	℄ Rte. 1														39	4-6E	4-7EE
672+65	301 Rt.	115													93	4-7EE	1-4M
673+10	40 TR Lt.																
10+00	℄ Rte. 6	6								53.40	1-C		0.5	40	2		
428+63	Lt. ℄				120					53.40	1-C		1.5	150	75		
428+65	Rt. ℄				120							15° R.A.			24	44-1EE	44-2E

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
20008	Clearing	Acre	51.5	
20108	Grubbing	Acre	28.8	
21004	Class A Excavation	C.Y.	1,490264	
21024	Class C Excavation	C.Y.	25740	
21204	Compacting Embankment	C.Y.	1,239971	
21214	Compacting in Cut	C.Y.	4282	
21309	Overhaul (Station)	Sta. Yd.	7684297	
21400	Interception Ditch	100 Lf.	27	
21507	Water	1000 Gal.	623	
21801A	Machine Grading Class I	Sta.	28	
24203	Removal of Rigid Pavement	S.Y.	14586	
24300	Misc. Removals (Urban Areas)	L. Sum	1	
24410	Removal of Buildings - Class 1	Each	0	
24420	Removal of Buildings - Class 2	Each	0	
24430	Removal of Buildings - Class 3	Each	1	
24440	Removal of Buildings - Class 4	Each	1	
24450	Removal of Buildings - Class 5	Each	9	
29293	Portland Cement Concrete Base (9" Reinf.)	Sq. Yd.	25201	
31015	Type 1 Aggregate for Base	Ton	64423	
31035	Type 3 Aggregate for Base	Ton	35466	
31045	Type 4 Aggregate for Base	Ton	16651	
31142	Processing Type 1 Aggregate (4")	Mile	0.70	
31162	Processing Type 1 Aggregate (6")	Mile	4.23	
31163	Processing Type 1 Aggregate (6")	Sq. Yd.	757	
31182	Processing Type 1 Aggregate (8")	Mile	8.80	
31342	Processing Type 3 Aggregate (4")	Mile	9.07	
31443	Processing Type 4 Aggregate (4")	Sq. Yd.	931	
31452	Processing Type 4 Aggregate (5")	Mile	6.27	
31462	Processing Type 4 Aggregate (6")	Mile	0.04	
35045	Gravel (A) or Crushed Stone (B) (Surface)	Ton	120	
37001	Primer (MC-0) & (RC-0)	Gal.	49230	
37015	Sanding Primer	Ton	7	
41205	Mineral Aggregate (Base)	Ton	15878	
41251	Bituminous Material (Base) (70-85 PA)	Gal.	179,310	
43025	Type B Asphaltic Concrete	Ton	6651	
43035	Type C Asphaltic Concrete	Ton	8444	
43055	Wedge Course	Ton	467	
44717	Bituminous Material (1st Appl.) (200-250 PA)	Gal.	16880	
44287	Bituminous Material (2nd Appl.) (RC-1)	Gal.	14,190	
44035	Cover Aggregate (Grade 6)	Ton	714	
45717	Bituminous Material (200-250 PA)	Gal.	10600	
45035	Cover Aggregate (Grade 6 & 9)	Ton	358	
48173	Concrete Pavement (7" Non-Reinf.)	Sq. Yd.	81.0	
48283	Concrete Pavement (8" Reinforced)	Sq. Yd.	25,894.4	
48293	Concrete Pavement (9" Reinforced)	Sq. Yd.	109435.5	
48303	Approach Slab for Bridges	Sq. Yd.	1372.5	
50034	Class 3 Excavation for Structures	C.Y.	9246	
53021	Class B Concrete (Culverts)	C.Y.	1099.9	
53022	Class B Concrete (Misc.)	C.Y.	215.9	
54000	Reinforcing Steel	Lbs.	142,060	
60112 12" C.M.P. Culvert		L.F.	874	
60113 15" C.M.P. Culvert		L.F.	308	
60118 18" C.M.P. Culvert		L.F.	166	
60124 24" C.M.P. Culvert		L.F.	36	
60112 12" C.M.P. Culvert		L.F.	54	
60408 8" Bit. Coated C.M.P. Culv. (Paved Invert)		L.F.	264	
60412 12" Bit. Coated C.M.P. Culv. (Paved Invert)		L.F.	82	
60415 15" Bit. Coated C.M.P. Culv. (Paved Invert)		L.F.	108	
60418 18" Bit. Coated C.M.P. Culv. (Paved Invert)		L.F.	104	
60424 24" Bit. Coated C.M.P. Culv. (Paved Invert)		L.F.	178	
60603	Corr. Metal Pipe Arch Culv. Type S-3	L.F.	42	
61312 12" Class III Reinf. Conc. Pipe Culv.		L.F.	1014	
61315 15" Class III Reinf. Conc. Pipe Culv.		L.F.	1042	
61318 18" Class III Reinf. Conc. Pipe Culv.		L.F.	833	
61324 24" Class III Reinf. Conc. Pipe Culv.		L.F.	1088	
61330 30" Class III Reinf. Conc. Pipe Culv.		L.F.	1584	
61336 36" Class III Reinf. Conc. Pipe Culv.		L.F.	440	
61342 42" Class III Reinf. Conc. Pipe Culv.		L.F.	358	
61424 24" Class IV Reinf. Conc. Pipe Culv.		L.F.	772	
61430 30" Class IV Reinf. Conc. Pipe Culv.		L.F.	168	
61436 36" Class IV Reinf. Conc. Pipe Culv.		L.F.	113	
61442 42" Class IV Reinf. Conc. Pipe Culv.		L.F.	1118	
61448 48" Class IV Reinf. Conc. Pipe Culv.		L.F.	408	
61548 48" Class V Reinf. Conc. Pipe Culv.		L.F.	222	
61608 8" Vitrified Clay Culv. Sewer Pipe Extra		L.F.	417	
70040 3½" Rigid Steel Conduit (Pushed)		L.F.	94	
70041 3½" Rigid Steel Conduit (In Trench)		L.F.	756	
80500	Pipe Collars	Each	3	
82000	Class A Underdrains	L.F.	3388	
83000	Furnishing Rock Fill	C.Y.	0	
83010	Placing Rock Fill	C.Y.	227	

FINAL PLANS

Prepared By R.W. Scearce Date July 19 66

Checked in Dist. Office By R. Tousshed Date August 19 66

Checked in Central Office By M. J. [illegible] Date 11/11 19 66

Revised By _____ Date _____ 19 ____

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S & P - 2AS

LOCATION

TYPE

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 2 of 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		2A	
DIST. No.	COUNTY		ROUTE	SEC. No.	
6	St. Louis		I-244		

REINF. CONCRETE CULVERT PIPE Cl. III (CON'T)

Station	Loc.	Type 12"	15"	18"	24"	30"	36"	42"	Std.	Hdwl.	Skew	Cl B Conc.	Reinf. Steel	Cl 3 Exc.	Drains From	Drains To	Remarks
423+65	Rt. ℄				96				534.0	I-C	15° R.A.	1.3	120	30			
438+00	℄ Rt.			73					534.0	I-C		0.8	60	11			
442+00	℄			82					534.0	I-C		0.8	60	11			
475+00	℄				80				534.0	I-C		1.3	120	65			
478+95	110m ℄				10									0	52-1EE	Culv.	
478+95	125m ℄					12								2	52-2E	Culv.	
482+00	℄		96						534.0	I-C		0.6	50	53			
498+00	℄			88					534.0	I-C		0.8	60	72			
499+90	℄							352	534.0	2-C		8.3	640	84			
502+00	Rt. ℄			98					534.0	I-C		0.8	60	74			
504+28	℄					179			534.0	I-C	15° L.A.	2.0	170	190			
504+28	Rt. ℄					92			534.0	I-C	15° L.A.	2.0	170	118			
513+00	℄			81					534.0	I-B		0.7	50	70			
518+00	℄				56									114	58-1EE	CM.P.	
528+00	150 Rt. ℄			62					534.0	I-C		0.8	60	6			
531+00	℄			79					534.0	I-C		0.8	60	56			
540+25	℄						252		534.0	I-C	20° R.A.	1.9	170	90			
542+50	℄		154						534.0	I-C		0.6	50	78	Howl.	64-1E	
542+50	Rt. ℄			92					534.0	I-A	R ℄ to Rt. ℄	0.6	50	7	64-1E	Howl.	
TOTALS		101	404	833	1088	1584	440	352				59.9	5040	4091			

REINF. CONCRETE CULVERT PIPE

Station	Loc.	Class IV 24"	30"	36"	42"	48"	Class V 48"	Type Howl.	Skew	Cl B Conc.	Reinf. Steel	Cl 3 Exc.	Drains From	Drains To	Remarks
401+70	℄	305						2-C	40° L.A.	3.9	350	151	Howl. Lt.	Howl Rt.	
407+50	℄	467						1-C	Rt. R.	1.8	170	285	9-2E	Howl Rt.	Howl Rt. Skewed 35° R.A.
414+82	180m ℄					526			5°25' R.A.			333	1-1EE	1-2EE	Includes 8 Sects. Radial Pipe @ 1-2EE
417+35	180 Rt. ℄					592						0	1-2EE	1-3M	
419+95	Rt. 180 Rt. ℄				408							0	1-3M	1-4M	Includes 10 Sects. Radial Pipe, R=54.5
422+10	Rt. 180m ℄			113								0	5-6EE	1-5M	
422+10	Rt. 180 ℄														
422+10	Rt. 180 ℄														
422+10	Rt. 180 ℄														
422+10	Rt. 180 ℄														
422+10	Rt. 180 ℄														
540+25	Rt. ℄		168									0	163-1EE	Dissipator in Cl 3 Exc. Yield in Cl III Pipe Run	
422+10	Rt. 180 ℄							*1500 Energy Dissipator	20° R.A.	7.0	580	0	1-4M	1-5M	Type "B" Bedding
422+10	Rt. 180 ℄						222								
422+10	Rt. 180 ℄														
TOTALS		772	168	113	1118	408	222			12.7	1100	769			

EXTRA STRENGTH VITRIFIED CLAY PIPE A.S.T.M. C-700

Station	Loc.	8"	Cl 3 Exc.	Remarks
402+55	37(M) to 38(M)	417	315	Cl 3 includes Removal of Exist. M.H.
TOTALS		417	315	

C.M. PIPE BIT COATED, PAVED INVERT

Station	Loc.	Type Collars	Type Hdwl.	8"	12"	15"	18"	24"	Skew	Cl B Conc.	Reinf. Steel	Cl 3 Exc.	Remarks
397+71.2	Rt. S.B. Lane			62'								12	Includes 1-10° Elbow. See Sheet # 79
398+09.3	Lt. S.B. Lane			10'								1	
398+36	Lt. N.B. Lane			10'								1	
398+74	Lt. N.B. Lane			10'								1	
400+35	Rt. I-244	1	1-C				66'			0.8	60	0	Includes 2-18° Elbows
13+79	Rt. RP #1		1-A						78° 37'28"R.A.	1.3	120	57	
0+20	℄ RP #5		1-C		22'					0.5	40	8	
8+00	℄ RP #5		1-C		14'					0.5	40	6	
4+9+00	Lt. I-244	1				74'						0	
415+83.5	Lt. N.B. Lane			42'								10	
415+89	Rt. N.B. Lane			10'								1	
11+66	℄ RP #6				18'							3	
11+66	RP #6 ℄							38'				17	
17+00	Rt. RP #2				30							18	
415+90.2	Lt. S.B. Lane			10'								1	
415+96.2	Rt. S.B. Lane			48								10	
419+19	Rt. Clayton			52'								24	
419+62	Lt. Clayton			10'								1	
515+97	83 Rt. I-244					28'						17	
518+00	Lt. I-244	1	1-C					62'		1.3	120	0	
525+94	See Elevation						38'					28	
TOTALS		3		264'	84'	102'	104'	178'		4.4	380	214	

MANHOLES (STD. 80.40)

Station	Loc.	M.H.#	"D"	Size	Cl B	Reinf.	Type 2 Frames & Cover	Cl 3	Pipe Openings	Remarks
404+12.2	Lt. I-244	37M	6'6"	3x3	2.7	230	1	13	3-8"	
401+21.2	Rt. I-244	38M	5'6"	3x3	2.3	220	1	12	3-8"	
671+98	Rt. 40TR	1-3M	14'6"	5x3	6.0	510	1	0	1-24" 1-42" 1-48"	
673+10	Rt. 40TR	1-4M	15'0"	5x3	6.1	520	1	0	2-66" 1-30"	
673+10	Lt. 40TR	1SM	31'0"	5x4	13.5	990	1	27	1-36" 1-48" 1-66"	
TOTALS					30.6	2470	5	52		

LENGTH OF PROJECT

End of Project		Station	
Beginning of Project		Station	
Apparent Length			Feet
Equations and Exceptions:			
Total Corrections			Feet
Net Length of Project			Feet
State Length	=		Miles
Federal Length	=		Miles

ENTRANCES (C.M.P.)

Station	Loc.	12"	15"	18"	24"	12" B3MA	Remarks
399+63	○ R.R. Rt.						Built @ Prop. Owners Expense
406+57	○ R.R. Rt.	34'					
4+14	○ Lt. Conway	40'					
5+55	○ Rt. Conway						Crown ℄
8+30	○ Rt. Conway			36'			
11+20	○ Rt. Conway			36'			
18+13	○ Lt. Conway	34'					
19+15	○ Lt. Conway	34'					
20+76	○ Lt. Conway						Crown
660+00	○ Lt. 40TR	34'					
660+00	○ Lt. N. Conn. 40TR	40'					
660+00	○ Rt. N. Conn. 40TR	40'					
130+96	○ R.R. Lt. (Buried)				44'		
123+60	○ Lt. Bailes				44'		
131+55	○ Lt. Bailes					48'	
416+00	○ R.R. Rt. N.W.	34'					
417+00	○ R.R. Rt. N.W.			76'			
421+25	○ R.R. Rt. N.W.	40'					Moved from 422+05 to fit Oil Entrance
424+00	○ R.R. Rt. S.W.	34'					
665+61	○ R.R. Rt. (Temp.)						Entrances Not Built
666+61	○ R.R. Rt. (Temp.)						" " " "
667+67	○ R.R. Rt. (Temp.)						" " " "
670+97	○ R.R. Rt. (Temp.)						" " " "
432+50	○ R.R. Rt.	34'					
435+66	○ R.R. Rt.						Crown ℄
468+70	○ R.R. Lt.	34'					
469+42	○ R.R. Lt.	34'					
469+61	○ R.R. Rt.	52'					
413+89	○ Rt. Clayton						Crown
415+20	○ Rt. Clayton	34'					
424+27	○ Rt. Clayton	34'					
424+94	○ Rt. Clayton		34'				
425+86	○ Rt. Clayton		34'				
426+67.8	○ Rt. Clayton	64'					
427+12	○ Rt. Clayton			34'			
476+94	○ R.R. Lt.						Crown
479+25	○ R.R. Lt.		58'				
486+80	○ R.R. Lt.	56'					
489+80	○ R.R. Lt.	34'					
489+91	○ R.R. Rt.						Built @ Prop. Owners Expense
493+60	○ R.R. Rt.		34'				Moved from 493+00 @ Prop. Owners Exp.
499+70	○ R.R. Rt.			36'			
504+85	○ R.R. Rt.	34'					Moved for School @ Owners Request
512+00	○ R.R. Rt.	34'					
517+50	○ R.R. Rt.	34'					
529+00	○ R.R. Rt.			44'			
538+00	○ R.R. Rt.	34'					
15+20	W.B. Bypass				54'		Signaged for Maint.
TOTALS		874'	308'	166'	36'	54'	42'

GENERAL SUMMARY — FINAL PLANS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only
83300	Grouted Rock Surface	Sq. Yd.	16	
83544	Concrete Slope Protection (4")	Sq. Yd.	3961.2	
84000	Concrete Curb (Type S)	L.F.	242	
84200	Curb and Gutter (Type A)	L.F.	3293	
84200	Curb and Gutter (Type B)	L.F.	8172	
84200	Curb and Gutter (Type C)	L.F.	203	
84300	Concrete Gutter (Type A)	L.F.	110	
84400	Paved Ditch	Sq. Yd.	17,288	
84700	Integral Curb (6" Height & Under)	L.F.	7175	
85000	Concrete Median	Sq. Yd.	213	
85407	Paved Approach (7")	Sq. Yd.	184.0	
85408	Paved Approach (8")	Sq. Yd.	210.2	
86001	Guard Rail, Type A (Steel)	L.F.	9624	
86100	Property Fence (5 Type A) (Steel Galv.)	L.F.	13,992	
87000	Temporary Barricades	Each	0	
87020	Movable Barricades	Each	14	
87100	Construction Signs	L. Sum	1	
88000	Right of Way Markers	Each	163	
88020	Drain Markers	Each	48	
89000	Grates and Bearing Plates	Lb.	4180	
89200	Manhole Frame and Cover (Type 2)	Each	5	
89200	Manhole Frame and Cover (Type 3)	Each	10	
90120	Type 2 Mulch	Acre	131.6	
90121	Asphalt Emulsion	Gal.	15990	
90200	Sodding	Sq. Yd.	59440	
90400	Seeding	Acre	131.6	
90613	Glass Fiber Mat (Type II)	Sq. Yd.	2284	
92413	Relocating Service Connections	Each	27	
99001	Office for Engineer	L. Sum	1	
99500	Painting Lane Stripe	100 L.F.	68	

ROADWAY CONTINGENT ITEMS

	Deduction for Thin Pavement	L.S.	50 $1427.82
	Relocate Property Fence	L.F.	55
	Asphalt Samples (Roadway)	Ea.	38

LIGHTING

70000	Type A-30 Concrete Pole	Ea.	9
70000	Type A-30 Conc. Pole (Photo Control & Switch)	Ea.	1
70010	8' Bracket Arm, 2" Slip Fitter	Ea.	2
70010	12' Bracket Arm, 2" Slip Fitter	Ea.	6
70010	15' Bracket Arm, 2" Slip Fitter	Ea.	2
70011	250 Watt Mercury Vapor Luminaire	Ea.	10
70023	Photoelectric Control & Relay (240 V.)	Ea.	1
70054	Type II (24") Trenching & Backfilling	L.F.	1830
70060	Concrete Handhole (Type B)	Ea.	2
70070	No. 8 Single Conductor Cable	L.F.	720
70072	No. 10 Single Conductor Pole & Bracket Cable	L.F.	900
70073	1" Cable-Conduit, 2 No. 8 Conductors	L.F.	2780

LIGHTING CONTINGENT ITEMS

	1½" Rigid Steel Conduit (In Trench)	L.F.	30

TRAFFIC SIGNALS

71000	Signal Head, Type 3T	Ea.	2
71000	Signal Head, Type 33T	Ea.	2
71001	Signal Head, Type 3S	Ea.	2
71004	Signal Head, Type 3B	Ea.	8
71010	Down Light	Ea.	4
71101	Post, 5' Signal	Ea.	6
71101	Post, 8' Signal	Ea.	4
71103	Post, 16.5' Detector, 25' Mast Arms	Ea.	1
71110	Post C-2, Type 24A	Ea.	2
71111	Post B, Type 18.5 E 24K	Ea.	1
71111	Post B, Type 17E 25K	Ea.	1
71300	Controller, Type F1-6	Ea.	1
71330	Detector, Ultra-Sonic Vehicle Type SPC	Ea.	8
71500	Conduit 4" Rigid Steel, In Trench	L.F.	185

Prepared By R.W. Scerece Date July 19 66 Checked in Dist. Office By R. Tauschel Date August 19 66 Checked in Central Office By B.P.R. Date 11/64 19 64 Revised By Date 19

FINAL PLANS

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S & P - 2AS

LOCATION

TYPE

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

SHEET 3 OF 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	F-244-4(25)274		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St. Louis			I-244	

DROP INLETS

STATION	Loc.	TYPE	SIZE	"D"	C.I.B.	REINF.	C.I.S.	GRATE TYPE	GRATE WIDTH	BEARING BARS WEIGHT	LATERALS	LOVER	SPILL-WAYS	OPENINGS	TYPE 3 FRAME	TYPE 3 COVER	REMARKS
400+35	Conc. Box	E	5x2	3'6"	1.4	130	6					A	2	1-18"			See Sheet #62
3+85	Conc. Box	E	3x3	6'6"	2.1	180	11					A	2	1-21"			
5+50	Conc. Box	T	26'x26"	40"	2.3	290	12							1-18"		1	1-T'G' Extension
21+03	Conc. Box	G	2x2	1'9"	0.5	100	5	II	2'	190				2-12"			
21+03	Conc. Box	E	3x2	2'6"	1.0	80	5					A	1	1-12"			Rotate D.I. 90°
22+79	Conc. Box	G	2x2	1'9"	0.5	100	3	II	2'	190				2-12" 1-18"			
22+79	Conc. Box	E	3x2	2'6"	1.0	80	5					A	1	1-12"			Rotate D.I. 90°
25+21	Conc. Box	E	3x2	3'6"	1.0	90	6					A	2	1-15" 1-18"			
662+55	Conc. Box	G	2x2	1'9"	0.6	110	4	II	2'	190				1-12"			
907+50	Conc. Box	E	3x3	5'6"	1.7	160	10					A	2	2-24"			
13+79	Conc. Box	EE	5x3	5'6"	2.4	230	13					A	1	2-24"			Rotate D.I. 90° & Place Spillway in 3' Side
4+00	Conc. Box	T	26'x26"	2'6"	1.7	230	2							1-18"		1	2-2'6" Extensions
5+00	Conc. Box	T	26'x26"	2'6"	0.9	110	2							1-18"		1	
11+30	Conc. Box	E	3x2	3'6"	1.1	90	6					A	2	1-18"			
12+75	Conc. Box	T	26'x26"	3'6"	1.1	130	4						1	1-18"		1	See Sheet #63
684+00	Conc. Box	G	2x2	1'9"	0.6	110	5	II	2'	190				1-18"			
684+00	Conc. Box	G	2x2	3'6"	0.8	130	7	II	2'	190				2-12"			
684+00	Conc. Box	EE	5x3	6'0"	2.4	230	13					A	2	1-15" 1-30"			
691+55	Conc. Box	G	2x2	1'9"	0.6	110	7	II	2'	190				1-12"			1 Spillway on 3' Side & 1 Spillway on 5' Side.
691+55	Conc. Box	G	2x2	2'6"	0.7	120	5	II	2'	190				2-18"			Plan Quanitity
0+20	Conc. Box	T	26x26"	30"	1.4	170	2						1	1-18"		1	1-2'6" Ext. See Sheet #63 Additional Pavement
8+00	Conc. Box	T	26'x26"	2'6"	0.9	110	5							1-18" 1-42"			Totals:
11+25	Conc. Box	EE	5'x3'	15'3"	5.2	490	0					A	2	1-39" 2-42"			Spillway on 3' Side. See Sheet #63
419+00	Conc. Box	EE	5x3	8'6"	3.1	310	0					A	3	1-18"			Rotate D.I. 90°
419+00	Conc. Box	G	5x2	4'0"	1.7	150	8					A	1	1-15"			
17+00	Conc. Box	E	3x2	15'0"	4.0	310	8					A	2	1-12"			See Sheet #63
3+08	Conc. Box	T	26'x26"	30"	1.0	110	3						1	1-18"		1	
5+00	Conc. Box	T	26'x26"	2'6"	0.9	110	2							1-12" 1-36"		1	
3+20	Conc. Box	EE	5x3	7'0"	2.6	260	15					A	2	1-36"			See Sheet #63. Rotate D.I. 90°
680+00	Conc. Box	G	2x2	1'9"	0.6	110	4	II	2'	190				1-18"			
680+00	Conc. Box	G	2x2	1'9"	0.5	100	3	II	2'	190				2-18"			
680+00	Conc. Box	EE	5x3	6'6"	2.6	260	11					A	1	1-15" 2-30"			
676+75	Conc. Box	G	2x2	2'0"	0.6	110	4	II	2'	190				1-18"			
676+75	Conc. Box	G	2x2	1'9"	0.5	100	3	II	2'	190				2-12"			
673+50	Conc. Box	G	2x2	3'6"	0.9	140	5	II	2'	190			1	1-12"			See Sheet #63
673+50	Conc. Box	G	2x2	3'0"	0.8	120	6	II	2'	190			1	2-12"			See Sheet # 63
673+50	Conc. Box	EE	5x2	13'0"	3.9	380	0					A	2	1-12" 1-36"			
670+25	Conc. Box	G	2x2	3'0"	0.8	120	4	II	2'	190				1-18"			
670+25	Conc. Box	G	2x2	1'9"	0.5	100	4	II	2'	190				2-12"			
667+00	Conc. Box	G	2x2	1'9"	0.6	110	5	II	2'	190				1-18"			
667+00	Conc. Box	G	2x2	3'6"	0.8	130	7	II	2'	190				2-12"			
667+00	Conc. Box	G	2x2	1'9"	0.5	100	6	II	2'	190				2-12"			
667+45	Conc. Box	G	2x2	1'9"	0.6	110	4	II	2'	190				1-12"			
412+50	Conc. Box	G	2x2	2'0"	0.6	110	5	II	2'	190				1-15" 1-18"			
413+65	Conc. Box	G	2x2	2'6"	0.6	120	6	II	2'	190				2-15"			
415+00	Conc. Box	G	2x2	3'6"	0.8	130	7	II	2'	190				2-18" 1-24"			
416+20	Conc. Box	E	3x3	5'0"	1.7	150	9					A	2	1-24"			
3+88	Conc. Box	E	3x3	5'6"	1.7	160	6					A	2	2-24" 1-24"			
676+63	Conc. Box	EE	5x3	6'0"	2.4	230	1					A	2	1-30"			Spillways in 5' Sides
10+00	Conc. Box	T	26'x26"	2'6"	0.9	110	3							1-18"		1	
11+66	Conc. Box	T	26'x26"	3'6"	1.1	130	4							1-12"		1	
11+66	Conc. Box	EE	5x3	5'0"	2.2	200	1					A	2	1-15" 1-24"			
428+45	Conc. Box	G	EE	5x3	5'6"	2.4	230	3					A	1	2-24"		
428+65	Conc. Box	E		3x3	6'0"	1.9	170	4					A	2	2-24"		
438+00	Conc. Box	E		3x2	4'6"	1.3	110	1					A	2	1-18"		
462+00	Conc. Box	G	EE	5x2	4'0"	1.7	150	0					A	1	1-18"		
475+00	Conc. Box	G	EE	5x3	3'6"	1.8	160	7					A	1	1-24"		
478+95	Conc. Box	G	EE	5x2	9'0"	3.4	310	4					A	2	1-24"		See Sheet #GR
478+95	Conc. Box	G	E	3x2	4'6"	1.2	110	3					A	2	1-30"		
482+00	Conc. Box	G	E	3x2	3'0"	1.1	80	3					A	1	1-15"		
498+00	Conc. Box	G	EE	5x2	3'6"	1.6	140	7					A	1	1-18"		See Sheet #GR
502+00	Conc. Box	G	E	3x2	6'0"	2.1	180	0					A	2	1-18"		See Sheet #GR
504+28	Conc. Box	G	EE	5x3	7'0"	2.8	270	14					A	1	2-30"		Rotate D.I. 90°
513+00	Conc. Box	G	EE	5x2	4'0"	1.7	150	8					A	1	1-18"		
516+25	Conc. Box	G	E	3x2	7'6"	2.7	200	0					A	2	1-15"		See Sheet #GR
518+00	Conc. Box	G	EE	5x3	4'6"	2.0	190	9					A	2	1-24"		
522+00	Conc. Box	G	E	3x2	6'6"	2.1	180	3					A	2	1-18"		See Sheet #GR
525+02	Conc. Box	G	E	3x2	4'6"	1.4	120	0					A	1	1-18"		
531+00	Conc. Box	G	EE	5x2	4'0"	1.7	150	9					A	1	1-18"		
540+25	Conc. Box	G	EE	5x3	7'0"	2.7	260	4					A	2	2-30"		
542+50	Conc. Box	G	E	3x2	4'6"	1.3	120	3					A	1	1-18"		Rotate D.I. 90°
TOTAL:					102.8	11440	364			4180						10	
			Pay:		102.3	11440	364			4,180						10	

LENGTH OF PROJECT

End of Project	Station		
Beginning of Project	Station		
Apparent Length			Feet
Equations and Exceptions:			
Total Corrections			Feet
Net Length of Project			Feet
State Length =			Miles
Federal Length =			Miles

CONCRETE PAVEMENT

	8" Reinf. S.Y.	9" Reinf. S.Y.	Remarks
Plan Quanitity	25894.4	109538	Original Computations were checked and the areas built to plan dimensions. See Sheet #59
Additional Pavement		287.7	
Totals:	25894.4	109435.5	
Pay:	25894.4	109435.5	

ROCK FILL

Station	Loc.	350 Lbs. per Sq. Yd. per Inch per Ton	Furn. R.F.	Place R.F.	Remarks
673+10				25.0	See Sheet # 56
439+00	O.R.Rt.			39.0	" " # 56
478+95	O.R.Lt.			34.0	" " # 56
504+60	O.R.Rt.			85.0	" " # 56
514+00	O.R.Rt.			21.0	" " # 56
524+90	O.R.Rt.			23.0	" " # 56
TOTALS:				227.0 Cu. Yds.	
Pay:				227 Cu. Yds.	

GROUTED ROCK SURFACE

Station	Loc.	Grout Bags	Remarks
504+00	@ I-244	16	See Sheet #56
Total:		16 S.Y.	

9" REINF. CONCRETE BASE

Station	to Station	Loc.	Sq. Ft.	Remarks
660+25	666+75	Lt. 40TR	2600.8	
660+25	666+78.3	Rt. 40TR	2593.6	
695+23.6	698+84.2	Rt. 40TR	725.4	
691+72	698+26	Rt. 40TR	2617.2	
691+72	698+26	Lt. 40TR	2617.2	
695+35	699+34	Lt. 40TR	759.0	
684+50	691+78	Lt. 40TR	2913.6	
684+74	691+72	Rt. 40TR	2792.0	
427+52	428+38	Rt. Clayton	240.0	
425+54	427+62	Rt. Clayton	939.6	
416+54.2	417+03	Rt. Clayton	983.8	
413+65	414+56	Lt. Clayton	281.2	
415+56	416+89	Lt. Clayton	935.6	
425+54	425+68	Lt. Clayton	134.6	
425+54	427+50	Lt. Clayton	786.4	
666+78.3	666+77.6	Rt. 40TR	98.4	
684+78.8	684+76.5	Rt. 40TR	84.0	
666+74.2	666+77.6	Lt. 40TR	64.8	
684+46.2	684+50.5	Lt. 40TR	88.8	
427+48.6	428+28.4	Lt. Clayton	240.0	
684+30.5	—	Lt. 40TR	194.0	
698+86.3	699+20	Rt. 40TR	51.8	
Total:			22681 SF	
Pay:			2520 SY	

See Sheet #56

GENERAL SUMMARY

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
71601	Conduit, 4" Rigid Steel, Pushed	L.F.	116	
71604	Conduit, 4" Aluminum	L.F.	300	
71700	Cable, 8 Guage, 1 Conductor Power	L.F.	510	
71701	Cable, 12 Guage 2 Conductor	L.F.	2522	
71701	Cable, 12 Guage 3 Conductors	L.F.	3871	
71701	Cable, 12 Guage 7 Conductor	L.F.	6337	
71705	Cable, Ultra-Sonic Vehicle Detector	L.F.	220	
71800	Power Supply Assembly	Ea.	1	
71900	Handhole, Concrete, Type I	Ea.	2	
71900	Handhole, Concrete, Type III	Ea.	1	
	TRAFFIC SIGNALS CONTINGENT ITEMS			
	Force Account		#257.52	
	SIGNING			
70027	30' Regulator Pole, Class 2	Ea.	0	
72001	Class B Concrete Footing	Cu. Yds.	205.5	
72002	70' Overhead Truss (Sign No. 3) (Steel)	L.S.	1	
72002	69' Overhead Truss (Sign No. 15) (Steel)	L.S.	1	
72002	56' Overhead Truss (Sign No. 21) (Steel)	L.S.	1	
72002	68.6' Overhead Truss (Sign No. 32) (Steel)	L.S.	0	
72002	33' Overhead Truss (Sign No. 39) (Steel)	L.S.	1	
72006	Structural Steel Post	Lb.	24090	
72008	4 Pound Sign Post	L.F.	0	
72010	Delineator (Single White)	Ea.	46	
72012	Delineator (Double Amber)	Ea.	403	
72013	Delineator (Triple Amber)	Ea.	5	
72014	Mile post	Ea.	6	
72017	Type C-2018-34 Tubular Cantilever Support	Ea.	1	
72020	Photoelectric Control (240V)	Ea.	3	
72022	Power Supply Assembly	Ea.	3	
72023	3½" Rigid Steel Conduit (Pushed)	L.F.	197	
72024	3½" Rigid Steel Conduit (In Trench)	L.F.	82	
72029	Type II (24") Trenching & Backfilling	L.F.	2,632	
72031	Type STBC Signs	S.F.	2,352	
72032	Type STRC Signs	S.F.	2,124	
72033	Type STRS Signs	S.F.	104	
72040	Type SHRR Signs	S.F.	102	
72050	Type SHRS Signs	S.F.	528	
72081	Stop Signs	Ea.	11	
72091	1" Cable - Conduit 2 No. 6 Conductors	L.F.	1390	
72091	1" Cable - Conduit 2 No. 8 Conductors	L.F.	1,780	
72095	Type B Handhole	Ea.	0	
86001	Guardrail Type A (Steel)	L.F.	450	
	SIGNING CONTINGENT ITEMS			
	Type A Handhole	Ea.	1	
	Type STRC Signs	S.F.	325	
	Type STRC Signs	S.F.	717	
	Type SHRS Signs	S.F.	32	
	Lighting Control Station	Ea.	1	
	¾" Galv. Steel Conduit & 2-#10 (600V) Cond. Cable	L.S.	1	
	56'6" Overhead Truss (Sign #32) (Steel)	L.S.	1	
	BRIDGE AT STATION 398+40.12 (A-1052)			
50014	Cl. I Excavation For Structures	Cu. Yd.	540.5	
52205	Steel Pile (12") In Place	L.F.	1448	
52215	Steel Pile (12") Cut-offs	L.F.	558	
53023	Class B Concrete	Cu. Yd.	67.2	
53035	Class B1 Concrete	Cu. Yd.	1531.0	
54000	Reinforcing Steel	Lb.	386,810	
56001	Bridge Rail (Single Tube Type)	L.F.	680	
	CONTINGENT ITEMS			
	Test Holes	L.F.	32	
	Cl. I Excavation Below Plan Limits	Cu. Yd.	13.5	

RECEIVED DEC 14 1966 HIGHWAY DEPARTMENT

FINAL PLANS

Prepared By Rld Scearce Date July 19 66 Checked in Dist. Office By W.H. Cook Date August 19 66 Checked in Central Office By [illegible] Date 11/14 19 66 Revised By Date 19

410

583

S & P - 2AS

LOCATION _____

TYPE _____

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 4 of 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4 (25)274		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St Louis			I-244	

4" Paved Median

Station To Station	Loc.	Sq. Yds.	Remarks
Median S.E. Quad I-244 + Rte 100		59.7	See Sheet #71
420+27 — 420+53	Rp #5	8.9	
413+48 — 413+73	Rp #4	9.8	
686+16 — 686+31	Rp #3	5.5	
678+44 — 678+59	Rp #6	4.8	
8+05 — 9+02	Rp #1	83.8	
10+02 — 10+98	Rp #7	40.5	
	Total:	213.0	

Pay: 213. S.Y.

Removal of Buildings

Class	Removals	Remarks
1	0	Removed Prior To Const.
2	0	" " " "
3	1	1 Unit removed Prior to Const.
4	1	Plan Quantity
5	9	3 Units removed Prior to Const.

Conc. Curb (Type S)

Sta. To Sta.	Location	Lin. Ft.
5+62 —	Lt. Conway	6.2
6+11 — 8+45	Lt. Conway	235.7
	Total:	241.9

Pay: 242 L.F.

Conc. Curb & Gutter (Type A)

Station To Station	Location	Curb & Gutter Lin. Ft.	Gutter Lin. Ft.
14+92 — 20+09	Rt. Ramp #7	517.1	11.7
695+66 — 695+32	Lt. 40 TR	33.5	—
0+00 — 4+01	Rt. Ramp #1	401.1	10.0
662+99 — 2+09	Rt. 40 TR & Ramp #8	712.0	19.4
659+75 — 661+45	Rt. O.R. Rt.	170.0	—
662+52 — 665+42	Rt. O.R. Rt.	290.5	—
665+80 — 666+74	Rt. O.R. Rt.	91.3	—
667+14 — 667+44	Rt. O.R. Rt.	30.1	—
667+87 — 4/4+86	Rt. O.R. Rt.	316.1	—
4/5+28 — 4/5+93	Rt. O.R. Rt.	67.8	15.5
20+00 — 20+51	Rt. Conway Rd.	51.1	—
20+95 — 21+08	Rt. Conway Rd.	13.1	—
21+48 — 23+25	Rt. Conway Rd.	182.0	—
23+69 — 24+95	Rt. Conway Rd.	126.6	8.5
6+20 — 8+31	Lt. Conway Rd.	211.3	—
9+13 — 9+33	Lt. Conway Rd.	19.1	24.8
9+05 — 9+15	Lt. of Ramp #1		10.0
11+05 — 11+15	Lt. of Ramp #7		10.0
	Total:	3292.7	109.9
	Pay:	3293 L.F.	110 L.F.

Conc. Curb & Gutter (Type B)

Station To Station	Location	Curb & Gutter Lin. Ft.
10+05 — 11+05	Lt. of Ramp #7	99
8+05 — 9+05	Lt. of Ramp #1	100
660+25 — 699+90	Lt. of E.B.L. 40 TR	3986
660+25 — 699+90	Rt. of W.B.L. 40 TR	3986
	Total:	8172.0
	Pay:	8172 L.F.

Conc. Curb & Gutter (Type C)

Station To Station	Location	Curb & Gutter Lin. Ft.
4/5+87 — 4/6+07	Rt. of N.B.L. I-244	20.8
4/5+81 — 4/6+01	Lt. of N.B.L. I-244	20.1
4/5+88 — 4/6+08	Lt. of S.B.L. I-244	20.6
4/5+94 — 4/6+14	Rt. of S.B.L. I-244	20.0
397+69 — 397+89	Rt. of S.B.L. I-244	20.7
397+07 — 398+28	Lt. of S.B.L. I-244	20.5
398+33 — 398+53	Rt. of N.B.L. I-244	20.1
398+72 — 398+92	Lt. of N.B.L. I-244	20.5
4/9+17 — 4/9+37	Rt. of Clayton	20.0
4/9+60 — 4/9+81	Lt. of Clayton	20.0
	Total:	203.3
	Pay:	203. Lin. Feet

Integral Curb (6" Height & Under)

Station To Station	Location	Type	Lin. Ft.
0+00 — 12+96	Ramp #3	M	1300
11+25 — 686+16	Rp #3 ~ 40 TR	A	184
411+64 — 2+34	I-244 + Rp #3	M	204
0+00 — 13+57	Ramp #4	M	1371
677+68 — 2+08	40 TR ~ Rp #4	M	221
11+73 — 418+98	Rp #4 + I-244	A	182
687+31 — 2+09	40 TR ~ Rp #5	M	209
0+00 — 13+34	Ramp #5	M	1347
11+50 — 421+01	Rp #5 ~ I-244	A	190
422+35 — 2+34	Rp #6 ~ I-244	M	215
0+00 — 13+49	Ramp #6	M	1360
677+84 — 11+78	Rp #6 ~ 40 TR	A	195
10+05 — 11+05	Ramp #7	A	98
8+05 — 9+05	Ramp #1	A	99
	Total:		7175

Pay: 7175 Lin. Feet

Paved Ditches

Sta. To Sta.	Location	Type	Slopes	Depth	S.Y.	Remarks
11+24 — 11+34	Rt. Rp #7	2 F.B.	4:1~3:1	18	11.69	See Sheet #66
400+35 —	Rt. I-244	V	2:1	18	6.57	
400+60 —	Rt. I-244	2 F.B.	2:1	18	33.77	
0+00 — 5+37	Rt. Conway Rd.	V	2:1	18	76.60	
13+86 — 15+62	Lt. Conway Rd.	V	2:1~4:1	18	184.82	
11+25 — 14+18	Rt. Conway Rd.	V	3:1~4:1	18	266.74	
14+18 — 14+68	Rt. Conway Rd.	V	3:1~4:1~2:1~4:1	18	56.50	
14+68 — 16+90	Rt. Conway Rd.	V	2:1~4:1	18	180.82	
16+90 — 17+00	Rt. Conway Rd.	V	2:1~4:1~3:1~4:1	18	68.17	
17+00 — 18+13	Rt. Conway Rd.	V	3:1~4:1	18	138.70	
19+56 — 20+42	Rt. Conway Rd.	V	3:1~4:1	18	111.56	
407+53 — 407+72	110' to 115' Lt. I-244	2 F.B.	3:1~3:1	18	18.19	See Sheet #65
13+48 — 13+67	Rt. Ramp #1	2 F.B.	3:1~4:1	18	20.41	
4+12 — 4+90	Rt. Ramp #1	V	3:1~4:1	18	23.38	
411+35 — 416+77	251' to 135' Lt. I-244	2 F.B.	3:1	18	499.27	
684+00 — 684+10	Lt. Rte. 40 TR	2 F.B.	3:1~4:1	18	10.28	
684+10 — 684+20	Lt. Rte. 40 TR	2 F.B. to V	3:1~4:1	18	9.18	
684+20 — 685+00	Lt. Rte. 40 TR	V	3:1~4:1	18	64.71	
685+00 — 686+85	65' to 140' Lt. Rte. 40 TR	V	3:1~3:1	18	106.10	
687+15 — 681+25	60' Lt. Rte. 40 TR	2 F.B.	3:1~3:1	18	9.24	
687+25 — 687+35	65' Lt. Rte. 40 TR	3 F.B. to V	3:1	18	17.82	
687+35 — 692+00	65' to 90' Lt. Rte. 40 TR	V	3:1	18	293.27	
699+00 — 131+30	Lt. 40 TR to Bates Rd.	V	3:1	18	190.29	
683+85 — 686+10	205' to 128' Rt. 40 TR	2 F.B.	4:1	18	164.40	
419+00 — 683+85	Lt. I-244 to Rt. 40 TR	4 F.B.	2:1	18	155.25	
687+08 — 688+56	95' to 125' Rt. 40 TR	2 F.B.	3:1	18	134.72	
688+56 — 691+35	125' to 90' Rt. 40 TR	V	3:1	18	204.88	
8+00 — 11+95	Rt. Ramp #8	V	3:1	18	222.27	
419+00 — 420+70	145' Lt. I-244	4 F.B.	2:1	18	177.86	
422+70 — 424+83	145' to 310' Lt. I-244	4 F.B.	2:1	18	253.40	
6+83 — 7+26	16' Rt. Ramp #7	V	3:1	18	5.38	
11+34 — 11+44	Rt. Ramp #7	2 F.B. to V	4:1~3:1	18	9.16	See Sheet #66
11+44 — 14+70	Rt. Ramp #7	V	4:1~3:1	18	262.24	
14+70 — 17+00	Rt. Ramp #7	V	3:1	18	203.47	
415+00 — 420+70	Rt. of O.R. Rt.	V	3:1	18	366.52	
420+95 — 421+10	O.R. Rt.	V	2:1	18	30.05	
666+90 — 666+10	75' Lt. Rte. 40 TR	V	2:1	18	11.82	
673+52 — 677+10	Lt. 40 TR	4 F.B.	2:1	18	373.39	
416+25 — 417+30	Rt. of O.R. Rt.	2 F.B.	4:1~3:1	18	105.97	
417+30 — 423+85	Rt. of O.R. Rt.	V	4:1~3:1	18	521.39	
2+15 — 2+25	Rt. Ramp #8	V	2:1	18	4.17	
3+88 — 7+00	Lt. Ramp #8	4 F.B.	2:1	18	424.52	
7+00 — 10+00	Lt. Ramp #8	V	4:1	18	279.02	
435+38 — 441+90	Lt. I-244	2 F.B.	2:1	18	513.11	
438+00 — 438+73	Rt. of O.R. Rt.	2 F.B.	2:1	18	66.12	
438+80 — 440+00	Rt. of O.R. Rt.	V	2:1	18	52.88	
438+00 — 440+00	Lt. of O.R. Rt.	2 F.B.	3:1~4:1	18	208.38	
440+00 —	Rt. I-244	V	2:1	18	10.11	
440+00 — 442+00	Lt. of O.R. Rt.	2 F.B.	3:1~4:1	18	206.93	See Sheet #67
442+00 — 443+00	Lt. of O.R. Rt.	V	4:1~3:1	18	79.27	
442+00 — 445+00	Rt. I-244	V	3:1~4:1	18	246.79	
455+70 — 455+90	Rt. I-244	V	3:1~4:1	18	45.18	
456+00 — 456+20	Lt. I-244	V	3:1~4:1	18	51.70	
458+18 — 459+59	Rt. I-244	V	4:1~2:1	18	99.64	
457+82 — 456+66	Lt. I-24	V	4:1~2:1	18	84.80	
467+21 — 470+00	Lt. I-244	V	3:1~4:1	18	338.52	
465+00 — 470+00	Rt. I-244	V	4:1~3:1	18	405.73	
470+00 — 475+00	Rt. I-244	V	4:1~3:1	18	406.54	See Sheet #68
470+00 — 475+00	Lt. I-244	V	3:1~4:1	18	606.67	
			Subtotal:		9730.55	

Length of Project

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

General Summary — FINAL PLANS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only
	Bridge at Station 416+07.35 (A-1053)			
50014	C.I. Excavation For Structures	Cu. Yds.	26.5	
51366	Pedestal Pile (36")	L.F.	308.1	
52005	Steel Piles (10") In Place	L.F.	1,078	
52015	Steel Piles (10") Cut-offs	L.F.	198	
53035	Class B1 Concrete	Cu. Yds.	1,454.3	
54000	Reinforcing Steel	Lbs.	368,940	
56001	Bridge Rail (Single Tube Type)	L.F.	760	
	Contingent Items			
	Test Holes	L.F.	76	
	Bridge at Station 457+99.38 (A-1054)			
50014	C.I. Excavation For Structures	Cu. Yds.	389.5	
52005	Steel Piles (10") In Place	L.F.	1762	
52015	Steel Piles (10") Cut-offs	L.F.	261	
53023	Class B Concrete	Cu. Yds.	301.5	
53034	Class B1 Concrete	Cu. Yds.	543.0	
54000	Reinforcing Steel	Lbs.	215,430	
55011	Painting	Ton	219.6	
55101	Fabricated Structural Carbon Steel	Lbs.	444,310	
56001	Bridge Rail (Single Tube Type)	L.F.	581	
70090	Conduit System on Struct. (Bell Telephone)	L.S.	1	
70090	Conduit System on Struct. (Union Electric)	L.S.	1	

FINAL PLANS

Prepared By R.W. Scearce Date July 19 66 Checked in Dist. Office By R. Tauschel Date August 19 66 Checked in Central Office By _____ Date 11/14 19 66 Revised By _____ Date _____ 19 ____

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S & P - 2AS

LOCATION _____

TYPE _____

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 5 of 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		2A	
DIST. No.	COUNTY		ROUTE	SEC. No.	
6	St. Louis		I-244		

PAVED DITCHES (CONT.)

Station	To Station	Location	Type	Slopes	Depth	S.Y.	Remarks
475+00	478+94	Rt. I-244	4'F.B.	2:1	1'-0"	383.89	
475+00	475+60	Lt. I-244	2'F.B.	2:1	1'-0"	69.60	
475+60	478+94	Rt. of O.R. Lt.	2'F.B.	3:1 ~ 4:1	1'-0"	364.52	
478+96	479+20	Rt. of O.R. Lt.	2'F.B.	3:1 ~ 3:1	1'-0"	18.42	
479+20	483+00	Rt. of O.R. Lt.	V	3:1	1'-0"	272.58	
482+00	---	Lt. I-244	2'F.B.	2:1	1'-0"	14.98	
475+00	477+50	Rt. of O.R. Rt.	V	3:1	1'-0"	152.24	
477+50	479+30	Rt. of O.R. Rt.	2'F.B.	2:1	1'-0"	161.61	
491+17	500+18	Rt. of O.R. Rt.	V	4:1 ~ 3:1	1'-0"	701.90	
495+31	---	Rt. of O.R. Rt.	V	2:1	1'-8"	85.28	See Sheet #68
490+00	498+00	Rt. I-244	V	4:1 ~ 3:1	1'-8"	883.41	
498+00	498+50	Rt. I-244	V	3:1 ~ 2:1	1'-8"	52.67	
496+15	498+70	Lt. of O.R. Rt.	V	3:1 ~ 4:1	1'-0"	216.38	
498+70	500+20	Lt. of O.R. Rt.	2'F.B.	2:1	1'-0"	116.71	
500+20	502+20	Lt. of O.R. Rt.	2'F.B.	2:1	1'-0"	133.12	
498+00	---	Lt. I-244	V	2:1	1'-0"	7.05	
498+00	499+00	Lt. I-244	2'F.B.	2:1	1'-0"	85.09	
499+00	500+00	Lt. I-244	V	2:1	1'-0"	51.77	
500+24	501+37	Rt. of O.R. Rt.	2'F.B.	2:1	1'-0"	82.32	
501+37	503+40	Rt. of O.R. Rt.	4'F.B.	2:1	1'-0"	191.89	
502+20	---	Rt. of O.R. Rt.	2'F.B.	2:1	1'-0"	29.00	
504+00	---	Rt. of O.R. Rt.	2'F.B.	2:1	1'-0"	62.81	
503+10	504+50	Lt. I-244	V	3:1 ~ 4:1	1'-0"	117.55	
509+30	515+28	Rt. of O.R. Rt.	V	4:1 ~ 3:1	1'-0"	668.45	
512+60	513+00	Lt. I-244	V	2:1	1'-0"	160.93	
515+28	516+20	Rt. of O.R. Rt.	V	4:1 ~ 3:1	1'-0"	80.89	
515+00	515+97	Lt. I-244	8'F.B.	2:1	1'-0"	180.63	See Sheet #69
515+97	517+10	Lt. I-244	6'F.B.	2:1	1'-0"	159.84	
517+00	518+00	Lt. I-244	2'F.B.	2:1	1'-0"	75.62	
518+10	519+74	Lt. I-244	V	2:1	1'-0"	84.24	
522+28	524+80	Rt. of O.R. Rt.	V	2:1	1'-0"	132.36	
512+30	515+28	Lt. of O.R. Rt.	V	3:1 ~ 4:1	1'-0"	241.15	
512+45	---	Lt. of O.R. Rt.	V	2:1	1'-0"	15.46	
515+28	516+50	Lt. of O.R. Rt.	V	3:1 ~ 4:1	1'-0"	92.89	
523+00	526+57	Lt. I-244	V	2:1	1'-0"	190.56	
525+03	530+00	Lt. of O.R. Rt.	2'F.B.	2:1	1'-0"	356.77	
526+61	528+00	Lt. I-244	2'F.B.	2:1	1'-0"	118.01	
524+82	530+00	Rt. of O.R. Rt.	V	2:1	1'-0"	192.94	
530+00	531+46	Rt. of O.R. Rt.	V	4:1 ~ 3:1	1'-0"	186.43	
531+00	531+44	Lt. of O.R. Rt.	V	3:1	1'-0"	51.96	
531+00	532+92	Rt. I-244	V	4:1 ~ 3:1	1'-0"	79.68	
530+00	531+00	Lt. of O.R. Rt.	2'F.B.	2:1	1'-0"	80.00	See Sheet #70
531+00	---	Rt. I-244	Horiz. Conn.	---	---	4.89	
539+00	541+50	Rt. of O.R. Rt.	V	2:1	1'-0"	169.81	
539+05	540+50	Lt. of O.R. Rt.	V	3:1	1'-0"	105.33	
540+50	540+60	Lt. of O.R. Rt.	V to 2'F.B.	3:1	1'-0"	7.96	
540+60	540+70	Lt. of O.R. Rt.	2'F.B.	3:1	1'-0"	11.08	
540+75	542+45	Lt. of O.R. Rt.	2'F.B.	2:1	1'-0"	115.61	
					Total:	17288.03	
					Pay:	17,288	S.Y.

RIGID PAVEMENT REMOVAL

Total: 14,586 S.Y. See Sheet #54 & #55

APPROACH SLABS FOR BRIDGES

Station	To	Station	S.Y.	Remarks
422+16 [25]	~	423+04 [42]	198.85	
419+16 [30]	~	419+59 [26]	127.65	
397+69 [18]	~	398+07 [38]	169.80	See Sheet #60
399+84 [35]	~	400+25 [33]	161.08	
398+34 [40]	~	398+75 [40]	173.24	
400+90 [49]	~	401+29 [12]	170.02	
415+81 [50]	~	416+04 [39]	126.54	
418+02 [45]	~	418+24 [40]	126.26	
415+88 [44]	~	416+11 [02]	126.79	See Sheet #61
418+09 [43]	~	418+31 [40]	126.26	
		Total:	1572.49	
		Pay:	1572.5	S.Y.

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

4" CONC. SLOPE PROTECTION

Station	Location	S.Y.	S.Y. Type A Incl. Toms	Remarks
398+41	I-244 N.B. & S.B.	751.37		
400+20	I-244 N.B. & S.B.	767.45		
416+07	I-244 N.B. & S.B.	753.63		
418+05	I-244 N.B. & S.B.	757.41		See Sheet #64
419+59	Clayton Rd.	435.67	66.0	
422+61	Clayton Rd.	495.67	85.7	
	Total:	3961.20	151.7	
	Pay:	3961.2	152 Ton	

3½" RIGID STEEL CONDUIT & SUBSTATION AREA

Station	Location	S.Y. Under Conc. Cover	Pushed Length	Substation Area	Remarks
668+00	O.R. Rt. NW Quad.	34		1	
17+90	Ramp #7	34			
2+10	Ramp #1	34			
6+00	Ramp #1 ~ Rte. 100	36			
693+13	Rte. 40 TR		94		
129+70	O. Roadway & Ballas	—	—	1	
671+00	Rte. 40 TR	94			
11+25	Ramp #5	40			
1+60	Ramp #5	40			
11+45	Ramp #3	40			
2+05	Ramp #6	40			
1+55	Ramp #4	40			
12+05	Ramp #6	40			
2+20	Ramp #5	34			
16+00	Ramp #8	34			
2+20	Ramp #7	34			
12+05	Ramp #4	40			
1+80	Ramp #3	40			
16+50	Ramp #1	34			
2+10	Ramp #2	34			
18+20	Ramp #2	34			
	Total:	756	94	2	
	Pay:	756	94		

PROPERTY FENCE 5' TYPE A (STEEL)

Sta.	Sta.	Location	Lin. Ft.	Remarks
660+44	666+00	Lt. Shldr. O.R. Rt.	556	S.W. Quad.
666+00	685+00	Lt. Shldr. O.R. Rt.	1305	S.W. Quad.
425+00	438+00	Lt. Shldr. O.R. Rt.	1316	
460+50	470+00	Lt. Shldr. O.R. Rt.	950	
470+00	485+00	Lt. Shldr. O.R. Rt.	1500	
485+00	490+00	Lt. Shldr. O.R. Rt.	500	
395+00	398+94	Lt. R/W I-244	394	
395+00	397+00	Rt. R/W I-244	200	
397+00	17+97.8	Rt. R/W Conway Rd.	50	
428+75	440+00	Lt. R/W I-244	1125	
440+00	455+43	Lt. R/W I-244	1543	
428+75	699+90	S.E. Quad.	2153	
693+30	698+30	Lt. Rte. 40 TR	500	
401+66	693+30	Lt. R/W I-244	1702	
		Total:	13,992	
		Pay:	13,992	L.F.

GENERAL SUMMARY

FINAL PLANS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only

FINAL PLANS

Prepared By R.W. Scearce Date July 1966 Checked in Dist. Office By R. Tauschel Date August 1966 Checked in Central Office By _____ Date _____ 19__ Revised By _____ Date _____ 19__

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S & P - 2AS

LOCATION

TYPE

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

SHEET 6 OF 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St Louis			I-244	

GUARDRAIL TYPE A (STEEL)

STATION	STATION	LOCATION	LIN. FT.	REMARKS
397+16.3	397+86.3	Rt. Shldr S.B.L.	25.0	Bridge Appr.
398+01.3	398+26.3	Lt. Shldr S.B.L.	25.0	" "
400+33.6	400+58.6	Rt. Shldr N.B.L.	25.0	" "
400+73.1	401+23.1	Lt. Shldr N.B.L.	50.0	
413+98.5	416+10.5	Rt. Shldr S.B.L.	212.5	
415+81.8	416+06.8	Lt. Shldr S.B.L.	25.0	Bridge Appr.
417+45	420+57.8	Rt. Shldr O.R. Rt.	312.5	N.W. Quad.
10+64	418+04.8	Rt. Shldr Rp #5	400.0	
418+06.7	418+31.7	Rt. Shldr N.B.L.	25.0	Bridge Appr.
422+86.6	423+86.6	Lt. Clayton Rt.	100.0	
450+47.8	455+85	Lt. Shldr O.R. Rt.	537.5	
459+04.8	471+00	Rt. Shldr O.R. Lt.	1211.0	
419+33.8	460+20	Clayton Rp to Lt. Shl. O.R. Rt.	112.5	
460+20	468+95	Lt. Shldr O.R. Rt.	875.0	
476+25	—	Rt. R/W I-244	12.5	To Barricade Side Road.
480+40	—	Rt. R/W I-244	12.5	" " " "
484+50	485+00	Lt. Shldr O.R. Rt.	50.0	
485+00	493+75	Lt. Shldr O.R. Rt.	900.0	
485+50	490+00	Rt. Shldr O.R. Lt.	450.0	
501+90	—	Lt. R/W I-244	12.5	To Barricade Side Road.
512+53	530+63	Rt. Shldr S.B.L.	1812.5	
513+51	518+50	Lt. Shldr N.B.L.	500.0	
523+00	527+00	Rt. Shldr O.R. Rt.	400.0	
523+63	531+25	Lt. Shldr N.B.L.	762.5	
539+50	543+25	Rt. Shldr O.R. Rt.	375.0	
659+73	—	Lt. Rte. 40 TR	25.0	
659+73	—	Rt. Rte. 40 TR	37.5	
500+87	502+62	Rt. Shldr O.R. Rt.	175.0	
515+72	517+34.9	Rt. Shldr O.R. Rt.	162.5	
		TOTAL:	9623.5	
		PAY:	9624 Lin. Ft.	

PROCESSING TYPE 3 AGGREGATE (4")

STATION 660+00 TO STATION 699+90 RTE 40 TR

PLAN QUANTITY 9.05 MILES

ADDED FOR ADDITIONAL PAVEMENT .02 MILES See Sheet #59

TOTAL: 9.07 MILES

PROCESSING TYPE 4 AGGREGATE (4")

STATION 419+59 TO STATION 422+61 Clayton Rd.

FIELD MEASURE 931 S.Y. See Sheet #64

PAY: 931 S.Y.

MOVABLE BARRICADES

STATION	LOCATION	QUANTITY	REMARKS.
424+00±	Clayton Rd.	1	Order Record #4
423+50±	Clayton Rd.	2	" " #4
418+00±	Clayton Rd.	2	" " #4
659+80	O.R. Rt.	1	" " #4
31+00±	Conway Rd.	1	" " #4
6+00±	Conway Rd.	1	" " #4
17+50	Conway Rd.	1	" " #4
695+00±	Rt. Rte. 40 TR	1	Order Record #6
696+80	Lt. Rte. 40 TR	1	" " #6
125+90	Lt. Ballas Rd.	1	" " #6
126+20	Lt. Ballas Rd.	1	" " #6
130+15	Lt. Ballas Rd.	1	" " #6
	TOTAL:	14	

INTERCEPTION DITCH

STATION	to STATION	LOCATION	LIN. FT.	REMARKS
429+25	435+05	Lt. I-244	592	
442+27	453+10	Lt. I-244	1095	
5+70	16+90	Rt. of Ramp #1	969	
		TOTAL:	2656	
		PAY:	2700 L.F.	

GLASS FIBER MAT (TYPE II)

STATION	STATION	LOCATION	LENGTH	TYPE	SLOPES	DEPTH	S.Y.	REMARKS.
3+88	to 10+50	Rt. of Ramp #3	662'	V	4:1~3:1	1"	730.3	
3+25	to 5+00	Rt. of Ramp #4	168'	2' F.B.	3:1~3:1	1"	196.0	
470+00	to 472+50	Lt. of O.R. Lt.	253'	V	2:1~2:1	1"	168.7	
478+59	to 478+90	Lt. of O.R. Lt.	33'	V	4:1~3:1	1"	22.0	See Sheet #78
479+51	to 483+00	Lt. of O.R. Lt.	335'	V	4:1~3:1	1"	335.0	
478+96	to 484+30	Rt. of I-244	543'	V	3:1~3:1	1"	482.7	
479+30	to 484+00	Rt. of O.R. Rt.	474'	V	3:1~3:1 (24'~3:1)	1"	349.4	
							TOTAL: 2284.1	
							PAY: 2284 S.Y.	

PAINTING LANE STRIPE

STATION	STATION	LOCATION	WIDTH	LIN. FT.	TYPE	REMARKS.
416+90	425+46	Clayton Bypass	8"	840	Solid	
17+80	18+50	Conway Rd.	8"	106	Solid	
416+90	425+46	Clayton Bypass	8"	840	Solid	Restriped 2-15-65
416+90	421+30	Clayton Bypass	4"	440	Solid	Edge Stripe
423+81	425+46	Clayton Bypass	4"	165	Solid	" "
695+30	698+75	W.B. 40 TR Bypass	4"	144	Dashed	
4+50	695+55	W.B. 40 TR Bypass	4"	213	Solid	
6+03	13+28	W.B. 40 TR Bypass	4"	255	Dashed	
18+00	665+40	W.B. 40 TR Bypass	4"	580	Solid	
664+80	667+65	W.B. 40 TR Bypass	4"	302	Solid	
18+00	660+00	W.B. 40 TR Bypass	4"	428	Dashed	
660+40	661+10	W.B. 40 TR Bypass	4"	87	Solid	
664+75	666+50	E.B. 40 TR Bypass	4"	190	Solid	
2+50	666+25	E.B. 40 TR Bypass	4"	183	Dashed	
425+61	428+72	Clayton Rd.	4"	311	Solid	
414+09	416+90	Clayton Rd.	4"	281	Solid	
414+09±	—	Clayton Rd.	4"	18	Solid	Edge Stripe
2+50	664+79	E.B. 40 TR Bypass	4"	636	Solid	" "
660+00	664+93	E.B. 40 TR	4"	195	Dashed	
6+50	12+53	E.B. 40 TR Bypass	4"	273	Dashed	
18+27	694+82	E.B. 40 TR Bypass	4"	133	Solid	
694+82	699+80	E.B. 40 TR	4"	156	Dashed	
		TOTAL:		6776		
		PAY:		6800	Lin. Ft.	

RELOCATING SERVICE CONNECTIONS

STATION	LOCATION		NO.	REMARKS.
4+45	Conway Rd.	Rt. to Lt.	1	
6+48	Conway Rd.	Rt.	1	Conn. To New Main
7+32	Conway Rd.	Rt. to Lt.	1	" " " "
7+42	Conway Rd.	Rt. to Lt.	1	" " " "
17+50	Conway Rd.	Rt. to Lt.	1	" " " "
18+35	Conway Rd.	Rt. to Lt.	1	" " " "
19+70	Conway Rd.	Rt. to Lt.	1	" " " "
20+75	Conway Rd.	Rt.	1	" " " "
21+03	Conway Rd.	Rt. to Lt.	1	" " " "
21+90	Conway Rd.	Rt.	1	" " " "
22+27	Conway Rd.	Rt. to Lt.	1	" " " "
23+90	Conway Rd.	Rt.	1	" " " "
660+60	40 TR	Rt.	1	" " " "
661+35	40 TR	Rt. to Lt.	1	" " " "
663+50	40 TR	Rt.	1	Conn. To New Main
664+70	40 TR	Rt.	1	" " " "
666+10	40 TR	Rt.	1	" " " "
668+05	40 TR	Rt.	1	Conn. To New Main
		SUBTOTAL:	18	

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY

FINAL PLANS

Prepared By R.W. Scearce Date July 19 66 Checked in Dist. Office By R. Tausch Date August 19 66 Checked in Central Office By W. D. Ackerman Date 11/14 19 66 Revised By _____ Date _____ 19 ____

583

S & P - 2AS

LOCATION _____

TYPE _____

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

SHEET 7 OF 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St. Louis			I-244	

RELOCATING SERVICE CONNECTIONS (CONT.)

STATION	LOCATION	No.	REMARKS
669+38	40TR	Rt. to Lt.	1	Conn. to New Main
678+15	40TR	Rt.	1	Conn. to New Main
695+95	40TR	Lt.	1	
435+65	I-244	Lt.	1	Conn. to New Main
415+46	Clayton	Lt. to Rt.	1	
423+70	Clayton	Lt. to Rt.	1	Conn. to New Main
425+03	Clayton	Lt. to Rt.	1	
426+44	Clayton	Lt. to Rt.	1	
428+00	Clayton	Lt. to Rt.	1	
		TOTAL:	27	
		PAY:	27	

MISCELLANEOUS ITEMS

SHEET No.	CLEARING	GRUBBING	CL A U D	RIP MARK	DR MARK	TERR. MULCH	SODDING	REMARKS
3	96	51	0	11	0	0	0	
4	193	134	62	13	1	170,295.4	1658.3	
5	53	53	0	15	0	119,481.7	1817.4	SEE SHEET #73
6	10	5	505	8	0	8,597.0	1693.6	
8	299	147	0	0	0	47,757.5	0	
9	1149	267	0	6	0	0	2946.4	SEE SHEET #74
10	77	74	0	0	0	0	0	
11	0	0	357	13	6	1,189,693.8	7080.0	SEE SHEET #74
12	0	0	683	6	10	1,160,311.8	9210.9	SEE SHEET #74 & #75
28	506	302	169	12	3	275,510.4	1125.3	SEE SHEET #75
23	114	77	84	5	1	353,842.2	4942.1	
24	192	148	210	12	4	392,091.8	4056.7	SEE SHEET #76
25	43	36	60	13	1	21,768.5	2321.0	
29	193	123	442	7	8	425,648.3	2306.1	
30	476	387	44	8	1	386,060.3	2684.9	
31	752	533	398	16	2	341,268.5	7460.9	SEE SHEET #77
32	257	104	134	12	2	463,671.2	4241.0	
33	77	70	240	6	9	377,698.5	5895.4	
TOTALS	4487	2511	3388	163	48	5,733,439.9	59,440.1 S.Y.	
PAY:	51.5 Ac.	288 Ac.	3388 LF	163	48	131.6 Ac.	59,440.1 S.Y.	

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

PAVED APPROACHES

STATION	LOC.	TYPE	RADIUS	LENGTH	WIDTH	7" NONREINF.	7" REINF.	8" REINF.	REMARKS
5+79	Lt. Conway	C.E.	30.0	10.0	47.5			68.30	
8+66	Lt. Conway	C.E.	30.0	10.0	51.5			78.23	
20+70	Rt. Conway	P.E.	12.0	6.0	30.5		25.03		
21+11	Rt. Conway	P.E.	12.0	6.0	23.2		20.08		
23+28	Rt. Conway	P.E.	12.0	6.0	30.0		26.35		
640+00	Lt. 40 TR	P.E.	—	25.6	12.2	54.75			
661+80.35	Rt. O.R.R.	S.R.	30.0	10.0	40.5			63.68	SEE SHEET #72
662+33	Rt. O.R.R.	P.E.	12.0	6.0	21.2		19.65		
665+61	Rt. O.R.R.	P.E.	12.0	6.2	23.2		23.81		
666+91.5	Rt. O.R.R.	P.E.	12.0	6.0	23.7		22.87		
666+91.5	Rt. O.R.R.	P.E.	—	15.95	9.0	26.22			
667+67	Rt. O.R.R.	P.E.	12.0	6.0	25.3		23.79		
415+32	Rt. O.R.R.	P.E.	12.0	6.2	22.2		22.39		
					TOTAL:	80.97	183.97	210.21	
					PAY:	81.0 S.Y.	184.0 S.Y.	210.2 S.Y.	

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY

FINAL PLANS

414

Prepared By R.W. Scearce Date July 1960 Checked in Dist. Office By R. Tauchet Date August 1966 Checked in Central Office By E.L. Lee Date 11/14 1966 Revised By _____ Date _____ 19__

583

S & P - 2AS

LOCATION _____

TYPE _____

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 8 of 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)214		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St. Louis			I-244	

CLASS B CONCRETE FOOTING

Sign No.	Station	Location	Post Design No.	Dia. Footing Post #1	Footing Post #2	Depths Post #3	Total Depth	Conc. C.Y. Depth	Std. 72.02 "Depth	Conc. C.Y.	Remarks
1	395+20	SBL Rt.	6	36"	5'10"	7'0"	12'10"	0.262	0.022	3.36	
6	410+04	SBL Rt.	1	24"	4'4"	3'7"	7'11"	0.116	0.010	0.92	
7	412+26	NBL Lt.	7	36"	7'0"	6'1"	13'1"	0.262	0.022	3.43	
12	421+70	SBL Rt.	6	36"	5'9"	5'3"	11'0"	0.262	0.022	2.88	
23	675+00	EBL 40th Rt.	1	24"	3'10"	—	3'10"	0.116	0.010	0.44	
25	678+74	WBL 40th Lt.	5	28"	6'0"	5'6"	11'6"	0.158	0.013	1.82	
29	686+58	EBL 40th Rt.	5	28"	6'6"	5'10"	12'4"	0.158	0.013	1.95	
30	689+00	WBL 40th Lt.	1	24"	4'3"	—	4'3"	0.116	0.010	0.49	
31	690+50	EBL 40th Rt.	5	28"	7'0"	5'6"	12'6"	0.158	0.013	1.97	
34	698+80	WBL 40th Lt.	6	36"	5'9"	5'7"	11'4"	0.262	0.022	2.97	
49	460+00	NBL Lt.	2	24"	4'2"	4'4"	8'6"	0.116	0.010	0.99	
50	477+00	SBL Rt.	3	24"	6'2"	6'8"	12'10"	0.116	0.010	1.49	
51A	484+35	NBL Lt.	11	36"	7'6"	7'4"	22'4"	0.262	0.022	5.85	
52A	487+00	SBL Rt.	11	36"	7'2"	7'10"	22'11"	0.262	0.022	6.00	
56	502+00	SBL Rt.	2	24"	4'6"	3'11"	8'5"	0.116	0.010	0.98	
59	529+85	NBL Lt.	1	24"	4'7"	3'10"	8'5"	0.116	0.010	0.98	
60	535+00	SBL Rt.	7	36"	3'8"	5'5"	9'1"	0.262	0.022	2.38	Fdn. #1 in Rock
62	541+18	SBL Rt.	1	24"	4'2"	3'4"	7'6"	0.116	0.010	0.87	
66	10+00	RR2 Rt.	4	28"	5'9"	5'0"	10'9"	0.158	0.013	1.70	
Sub-Total			—	—	—	—	—	—	—	41.47	C.Y.
			Footing Conc. From Sign Truss							159.0	Sheet #49
			Footing Conc. From Tubular Cantilever Support							5.05	Sheet #50
Total Ftg. Concrete										205.52	C.Y.
										Pay: 205.5	C.Y.

SIGN POSTS

Sign No.	Station	Sign Detail Sheet No.	Location	Sign Size	6"x6" W.F. Posts @ 8.5 lb. Per Ft. Cut-off Ea. Post Each	Lin. Ft.	Pounds	Std. 72.03 Structural Steel Posts W.F. Posts Design No.	Post Lin. Ft.	Post Lin. Ft.	Base Plate Lin. Ft.	Rail Lin. Ft.	Total Lin. Ft.	Cover Plates 3" Z.E.E. Assembly Lbs. Per Ft.	Total Lbs.	Cutoff Lbs.	Total Pounds	Base Plate Total Lin. Ft.	Base Plate Per Ft.	Base Plate Lbs.	Assembly Cross Bars 2" x 3/8" Bars @ 8.55 Lbs. Per Lin. Ft. No. Ea.	Length (Inches)	Total Lin. Ft.	Total Lbs.	Total Struct. Posts Lbs.	Remarks
1	395+20	45	SBL Rt.	14'x18'				6	18'6"	18'6"		37'	21	18	759			154							913	
2	403+75	Std.	SBL Rt.	4'x5'	2	15'6"	260																		260	
4	407+00	Std.	NBL Lt.	4'x5'	2	15'0"	251																		251	
5	408+00	Std.	SBL Rt.	Assembly	1	13'6"	113																		113	
6	410+04	45	SBL Rt.	10'x3'				1	10'0"	11'9"		21'9"	13	4	279			52							331	
6B	410+04	45	NBL Lt.	8'x3'	2	15'9"	264																		264	
7	412+26	45	NBL Lt.	17'x9'				7	15'3"	16'3"		31'6"	25	22	766			168							934	
8	1+00	Std.	Ramp 3 Rt.	4'x5'	2	15'0"	251																		251	
9	13+00	Std.	Ramp 4 Rt.	5' ▽	1	15'9"	132																		132	
10	12+50	Std.	Ramp 5 Rt.	5' ▽	1	15'9	132																		132	
11	1+00	Std.	Ramp 6 Rt.	4'x5'	2	15'9"	264																		264	
12	421+70	45	SBL Rt.	15'x9'				6	16'0"	16'6"		32'6"	21	18	665			154							819	
13	424+00	Std.	NBL Lt.	Assembly	1	13'3"	111																		111	
14	427+00	Std.	SBL Rt.	4' ◇	2	14'9"	247																		247	
16	431+00	Std.	NBL Lt.	4'x5'	2	15'6"	260																		260	
20	666B+75	Std.	EBL Rt. 40th	4'x5'	2	13'9"	230																		230	
22	673+00	Std.	WBL Lt. 40th	4' ◇	2	15'0"	251																		251	
23	675+00	Std.	EBL Rt. 40th	Assembly				1	9'3"			9'3"	13	2	118			26	4	45"	15	38			182	
24	12+85	Std.	Ramp 6 Rt.	5' ▽	1	14'9"	123																		123	
25	678+24	46	WBL Lt. 40th	15'6"x7'6"				5	13'9"	14'9"		28'6"	20	14	556			98							654	
26	1+00	Std.	Ramp 2 Rt.	4'x5'	2	14'9"	247																		247	
27	1+00	Std.	Ramp 3 Rt.	4'x5'	2	15'6"	260																		260	
28	12+25	Std.	Ramp 3 Rt.	5' ▽	1	14'6"	121																		121	
29	686+58	46	EBL Rt. 40th	16'x7'6"				5	14'0"	14'9"		28'9"	20	14	561			98							659	
30	689+00	Std.	WBL Lt. 40th	Assembly				1	9'6"			9'6"	13	2	122			26	4	45"	15	38			186	
31	690+50	46	EBL Rt. 40th	13'x8'				5	15'0"	17'0"		32'0"	20	14	626			98							724	
33	695+00	Std.	WBL Lt. 40th	4'x5'	2	14'3"	238																		238	
34	698+80	47	WBL Lt. 40th	13'x10'6"				6	16'6"	18'6"		35'0"	21	18	717			154							871	
44	443+00	Std.	SBL Rt. Alternate	Assembly	1	14'9"	123																		123	
45	450+00	Std.	SBL Lt.	4'x5'	2	15'0"	251																		251	
46	457+50	48	SBL Rt.	7'6"x2'	2	14'6"	243																		243	
47	458+50	48	NBL Lt.	7'6"x2'	2	14'6"	243																		243	
48	467+00	Std.	SBL Rt.	4'x7'6"	2	18'0"	302																		302	
49	467+00	Std.	NBL Lt.	8'x6'6"				2	13'3"	14'6"		27'9"	16	6	438			72							510	
50	477+00	48	SBL Rt.	13'x5'6"				3	12'9"	15'3"		28'0"	15.5	8	426			78							504	
51 (A)	484+00	48	NBL Lt.	20'x16'				11	23'9"	23'6"	21'6"	68'9"	25	33	1686	44'	6.4	282							348	2,316
51 (B)	" "	Std.	" " (Brion)	16'x 2'6"																						
52 (A)	487+00	48	SBL Rt.	28'x18'6"				11	20'9"	19'6"	16'3"	56'6"	25	33	1380	39'	6.4	250							348	1,978
52 (B)	" "	Std.	" " (Brion)	16'x 2'6"															4	9'4"	267					267
53	498+00	Std.	SBL Rt.	4'x3'	2	13'9"	230																			230
54	500+00	Std.	NBL Lt.	4'x3'	2	13'9"	230																			230
55	510+00	Std.	NBL Lt.	4'x7'6"	2	18'0"	302																			302
56	510+00	Std.	SBL Rt. Alternate	8'x6'6"				2	13'3"	14'6"		27'9"	16	6	438			72								510
57	520+00	Std.	NBL Rt.	4'x5'	2	15'0"	251																			251
58	520+00	Std.	NBL Lt.	Assembly	1	14'9"	123																			123
59	529+85	45	NBL Lt.	10'x3'				1	10'3"	12'3"		22'6"	13	4	289			52								341
Sub Total																										15752

LENGTH OF PROJECT

End of Project	Station		
Beginning of Project	Station		
Apparent Length			Feet
Equations and Exceptions:			
Total Corrections			Feet
Net Length of Project			Feet
State Length =			Miles
Federal Length =			Miles

GENERAL SUMMARY

FINAL PLANS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only

FINAL PLANS

Prepared By E. Burkhart Date Jan. 19 66 Checked in Dist. Office By R. Tauschel Date August 19 66 Checked in Central Office By [illegible] Date 11/14 19 66 Revised By _____ Date _____ 19 ____

495

583

S & P - 2AS

LOCATION _____

TYPE _____

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 9 of 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
6	St. Louis			I-244	

SIGN POSTS (Cont.)

STD 72.03

Sign No.	Station	Sign Detail Sheet No.	Location	Sign Size	6"x4" WF Posts 12.5# Per Ft. Cutoff Ea.	Post Ea.	Post 2 Lbs.	Post Design No.	WF Posts Post #1	Post #2	Post #3	Total Lin.Ft.	Lbs. Per Ft.	Cutoff Lbs.	Total Pounds	Cover Plates 3" ZEE Assembly Base Plates Total Lbs.	Total Lin.Ft.	Per Ft. Lbs.	No. Each	Post Each Space	Total Lbs.	Assembly Cross Bars 2"x 3/8" Bars @ 2.55 Lb. Per Lin. Ft. No. Each	Length Finished	Total Lin.Ft.	Lbs.	Total Lbs. Struct. Posts	Remarks
Sub Total		(From Sheet 8 of 10)																								18752	
60	535+00	48	S.B.L. Rt.	19'x 10'				7	17'0"	18'9"		38'9"	25	22	797						168					965	
61	540+00	Std.	S.B.L. Rt.	4'x 5'	2	15'6"	260																			260	
62	541+18	Std.	S.B.L. Rt.	6'x 5'				1	11'6"	12'3"		23'9"	13	4	305						52					357	
63	543+00	Std.	N.B.L. Lt.	4' ◇	2	16'9"	247																			247	
64	543+21	52	S.B.L. Rt.	70'x 3'0"	2	15'3"	255																			255	
65	547+00	Std.	S.B.L. Rt.	Assembly	1	13'3"	111																			111	
66	10+00	52	Rp "2 Rt.	17'6"x 5'6"				4	12'6"	15'3"		27'9"	17	12	460						98					558	
67	13+00	Std.	Rp "2 Lt.	4'x 4'	2	15'0"	251																			251	
68	13+49	Std.	Rp "2 (Island)	Assembly	1	12'0"	100																			100	
69	415+05	Std.	Wal. Rte 100	5' ▽	1	14'3"	119																			119	
70	404+00	Std.	Rte 100 Rt.	Assembly		Exist. Post																6	45	22.5	57	57	
71(A)	408+00	Std.	Rte 100 Rt.	Assembly	1	14'3"	119																			119	
71(B)	408+00	52	" (Side By Side)		Sign & Post Existing, Added Bottom Legend																						
73(A)	410+00	Std.	Rte 100 Lt.	Assembly	1	16'3"	136																			136	
73(B)	410+00	52	" (Side By Side)	11'x 2'	2	19'0"	321																			321	
74	413+50	Std.	Rte 100 Lt.	Assembly	1	16'6"	121																			121	
76.(B)	415+35	52	Rte 100 Lt.		Sign & Post Existing - Added Upper Legend.																						
77	418+35	Std.	Rte 100 Lt.	Assembly	Existing Post.																	6	45	22.5	57	57	
78	553+65	Std.	NW OR Rp.	3' (Stop)	1	13'3"	111																			111	
79	553+60	Std.	NW OR (Island)	2'x 2'	1	10'6"	87																			87	
46(A)	424 ±	Std.	Rte HH Rt.	3' (Stop)	1	13'3"	111																			111	
46(B)	418+50 ±	Std.	Rte HH Rt.	3' (Stop)	1	13'3"	111																			111	
46(C)	418+00	Std.	Rte HH Lt.	3' (Stop)	1	13'3"	111																			111	
91	479+25	Std.	Lt. OR Lt.	3' (Stop)	1	13'3"	111																			111	
92	486+25	Std.	Lt. OR Lt.	3' (Stop)	1	13'3"	111																			111	
93	469+61	Std.	Rt. OR Rt.	3' (Stop)	1	13'3"	111																			111	
94	435+68	Std.	Rt. OR Rt.	3' (Stop)	1	13'3"	111																			111	
95	661+80	Std.	Rt. OR Rt.	3' (Stop)	1	13'3"	111																			111	
96	398+50	Std.	O.R. Rt.	3' (Stop)	1	13'3"	111																			111	
97	131+70	Std.	Lt. Ballas Rd.	3' (Stop)	1	13'3"	111																			111	
Total Lbs. Struct. Steel																										24094	Lbs.

DELINEATORS

Station	To Station	Location	Single White	Double Amber	Triple Amber
393+19 ℓ	403+19 ℓ	S.B.L. Rt.	1	7	
394+03	403+03	N.B.L. Lt.	1	5	1
406+00	412+00	S.B.L. Rt.	4		
405+00	411+00	N.B.L. Lt.	4		
0+20	20+32	Ramp "2 Rt.		31	
0+85	18+17	Ramp "1 Rt.		28	
0+40	2+40	Ramp "4 Rt.		6	
2+85	11+00	Ramp "3 Lt.		37	
11+00	12+75	Ramp "3 Rt.		6	
0+33	2+00	Ramp "4 Rt.		6	
2+00	11+55	Ramp "4 Lt.		37	
11+55	13+15	Ramp "4 Rt.		5	
414+60	419+50	S.B.L. Rt.		4	
414+50	419+40	N.B.L. Lt.		4	
660+28	668+28	W.B.L. Lt. 4 Otr	1	6	1
660+09	668+09	E.B.L. Rt. 4 Otr	1	7	
672+00	678+00	W.B.L. Lt. 4 Otr	4		
671+00	677+00	E.B.L. Rt. 4 Otr	4		
680+30	685+30	W.B.L. Lt. 4 Otr		6	
679+55	684+55	E.B.L. Rt. 4 Otr		6	
687+00	693+00	W.B.L. Lt. 4 Otr	4		
687+00	693+00	E.B.L. Rt. 4 Otr	4		
0+03	19+25	Ramp "8 Rt.		31	
422+00	428+00	S.B.L. Rt.	4		
421+00	429+00	N.B.L. Lt.	5		
0+40	2+40	Ramp "6 Rt.		6	
2+40	11+70	Ramp "6 Lt.		36	
11+70	13+40	Ramp "6 Rt.		6	
0+00	19+25	Ramp "7 Rt.		32	
Sub-Totals:			37	310	2

DELINEATORS (Cont.)

Station	To Station	Location	White	Amber	Triple Amber
Sub Totals			37	310	2
0+20	2+00	Ramp "5 Rt.		6	
2+00	11+00	Ramp "5 Lt.		37	
11+00	12+97	Ramp "5 Rt.		6	
431+31 ℓ	439+31 ℓ	S.B.L. Rt.	1	6	1
431+64 ℓ	439+64 ℓ	N.B.L. Lt.	1	7	
529+37 ℓ	537+37 ℓ	N.B.L. Lt.	1	6	1
533+06 ℓ	—	S.B.L. Rt.	1		
14+30	9+90	Rp "1 Rte 100		11	
0+00	12+76	Rp "2 Rt. Rte 100		14	1
542+00	544+00	S.B.L. Rt.	2		
540+50	544+50	N.B.L. Lt.	3	1	
Totals:			46	403	5

MILE POSTS

Station	Location	Mile	No. Ea.
435+60	N.B.L. Lt.	8	1
435+60	S.B.L. Rt.	8	1
488+40	N.B.L. Lt.	9	1
488+40	S.B.L. Rt.	9	1
541+20	N.B.L. Lt.	10	1
541+20	S.B.L. Rt.	10	1
Total:		—	6 Ea.

PHOTOELECTRIC CONTROL

Station	Location	Volts	Each	Remarks
404+25	I-244 on Col. 2 of Truss "3"	240	1	
430+20	I-244 on Col. 2 of Truss "3"	240	1	
669+25	40TR on Col. 1 of Truss "21"	240	1	
Total:			3	

POWER SUPPLY ASSEMBLY

Station	Location	Each	Remarks
399+28	On I.E. Pole 147' Rt.	1	See Details I/S Sheet #36
432+53	On I.E. Pole 155' Lt.	1	" " " " #36
668+25.40	On I.E. Pole 155' Lt.	1	" " " " #36
Total:		3	Ea.

LIGHTING CONTROL STATION

(Change Order #5)

Station	Location	Each	Remarks
126+85	Ballas Rd. MSHD Pole 42Lt.	1	See Details Sheet #66A
Total:		1	Each

3½" RIGID STEEL CONDUIT

Station	Location		Lin. Ft.	Pushed	In Trench	Remarks
703+45	Ramp2	West Leg	40'	40'		See Sheet #51
703+45	Ramp3	West Leg	30'	30'		See Sheet #51
704+60	Ramp3	East Leg	36'	36'		" " #51
9+20	Ramp 4		26'		26'	" " #51
668+00	W.B.L.	4 Otr	42'		42'	" " #51
668+00	O.R. NW.	Quad.	—	—	—	Inc. With Rdwy
695+00	E.B.L.	4 Otr	44'	30'	14'	See Sheet #51
126+85	Ballas	Rd.	61'	61'		" " #51
Totals			—	197'	82'	

3/4" GALVANIZED STEEL CONDUIT

2-#10 600 V Conductor Cable

(Change Order No. 17)

Used on Sign Truss #39 Sta. 711+50 Rte. 40TR

Lump Sum 1

GENERAL SUMMARY

FINAL PLANS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

Prepared By E. Burkhart Date Jan. 19 66

Checked in Dist. Office By R. Tauschel Date August 19 66

Checked in Central Office By _____ Date _____ 19 __

Revised By _____ Date _____ 19 __

FINAL PLANS

416

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S & P - 2AS

LOCATION _____

TYPE _____

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

SHEET 10 OF 10

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-244-4(25)274		2A	
DIST. No.	COUNTY		ROUTE	SEC. No.	
6	St. Louis		I-244		

SIGN SUMMARY

Standard Sign or Special Sign No.	Sign Detail Sheet No.	No. Each	Size	Type & Sq. Feet STBC	STRC	STRS	SHRR	SHRS	36" Stop Each	Remarks
1 (Wentzville)	45	1	160"x120"		168					
7 (Wentzville)	45	1	170"x90"		153					
2,4,61 (Exit 40 MPH)	Std.	2	1 4'x5'					40		
3(a) (Kirkwood ↓)	45	1	120"x100"	120						
3(b),15(b),21(a),32(a) (Exit ½ Mile)	45,46	4	160"x100"	640						
36 (Wentzville ↑)	45	1	170"x90"	153						
4,14,22,63 (Merging Traffic)	Std.	4	1 4'◇					64		
6,59 (City Limits)	45	2	100"x30"		60					
6A (City Limit)	45	1	80"x30"		24					C.O. #1
8,11,26,27 (Exit 30 MPH)	Std.	4	4'x5'					80		
9,10,24,28,69 (Yield)	Std.	5	5' ▽					54		
12 (St. Louis ↑)	45	1	150"x90"		135					
16,20,33 (Exit 50 MPH)	Std.	3	4'x5'					60		
15(a) (Bridgeton ↓)	45	1	126"x100"	125						
15(c) (St. Louis ↑)	45	1	150"x90"	135						
* 31 (Ballas Road Exit)	45	1	130"x80" E	104						
25 (Kirkwood ↑)	46	1	156"x76"		116.3					
21(a),32(a) (St. Louis, Wentzville ↓)	46-47	2	140"x100"	280						
21(c) (Kirkwood ↑)	46	1	156"x76"	116.3						
29 (Bridgeton ↑)	46	1	160"x76"		120					
32(c) (Bridgeton ↑)	46	1	160"x76"	120						
34 (Bridgeton ↑)	47	1	130"x106"		136.5					
* 36(a) (St. Louis ↓)	47	1	100"x86" E	85						
* 36(b) (Ballas Rd →)	47	1	110"x86" E	93.5						
39(a) (Wentzville ↓)	47	1	140"x96"	133						
39(b) (Junction ↓)	47	1	136"x100"	136						
* 39(c) (Ballas Rd. ↑)	47	1	160"x70" E	112						
45,57 (Keep off Median)	Std.	2	4'x5'					40		
46,47 (Clayton Rd.)	48	2	76"x20"		30					
48,55 (Speed Limit 70, Min 40)	Std.	2	40"x76"					60		C.O. #1
49,56 (Littering)	Std.	2	80"x66"			104				
50 (Des Peres 1, Kirkwood 3)	48	1	130"x56"		71.5					
51(a) (St. Louis, Wentzville Exit)	48	1	200x160"		320					
51(c),52(a) (Next Exit — Miles)	Std.	2	160"x26"		80					
52(a) (Manchester Rd. Exit)	48	1	280"x126"		350					
53,54 (Emergency Stopping Only)	Std.	2	4'x3'					24		
60 (Manchesterer Rd ↑)	48	1	190"x100"		190					
62 (Exit ↑)	Std.	1	6'x5'		30					
64 (City Limit)	52	1	70"x30"		21					
66 (Kirkwood 3-Manchester 3)	52	1	176"x56"		96.3					
67 (Do Not Enter)	Std.	1	4'x4'					16		
73(b) (← Creve Coeur)	52	1	110"x20"		22					
76(a),76(b),76(c),78 (Stop)	Std.	1	—						4	
91,92,93,94,95,96,97 (Stop)	Std.	1	—						7	C.O. #3
* 79 (Keep Right)	Std.	1	2'x2'					4		
72,75 (← Only)	52	2	70"x40"					56		
North - South	Std.	2	30"x15"				6.2			
North	Std.	5	21"x9"				6.5			
North - South - East - West	Std.	4	21"x9"					5.2		
I-244 Shield	Std.	5	36"x12"				52.5			
I-244 Shield	Std.	5	25"x30"				26.0			
* U.S. 40 Shield	Std.	2	21" on 24"					8		
* U.S. 61 Shield	Std.	2	21" on 24"					8		
* No. 100 Shield	Std.	1	20" on 24"					4		
21" ←→ 1"	Std.	5	21"x15"				11.0			
←→	Std.	1	21"x15"					2.2		
TOTALS				2351.8	2123.6	104	102.2	525.4	11	
			Pay:	2352	2124	104	102	525	11	

SIGNS NOT ERECTED (Delivered to State Maintance Dept.)

(Change Order #6)

Standard Sign or Special Sign No.	Sign Detail Sheet No.	No. Each	Size	Type & Sq. Feet STBC	STRC	STRS	SHRR	SHRS
17,42 (Kirkwood – Bridgeton 1 Mile)	46,48	2	130"x170"		646			
* 18,43 (Ballas Road Exit)	45	2	130"x80" E	208				
19 (Kirkwood ↑)	46	1	126"x106"		133.3			
* 35 (Exit 20 MPH)	Std.	1	3'x4'					12
* 37 (Exit ↑)	Std.	1	46"x40" E	18				
* 38 (Merging Traffic)	Std.	1	3' ◇					9
* 40 (Ballas Rd. ↑)	47	1	110"x90" E	99				
East - South	Std.	2	21"x9"					2.6
* U.S. 40 Shield	Std.	1	21" on 24"					4
* U.S. 61 Shield	Std.	1	21" on 24"					4
TOTALS				325	777.3	—	—	31.6
			Pay:	325	777			32

* = Expressway Signing Std. 72.04 E = Black Background

LENGTH OF PROJECT

End of Project Station

Beginning of Project Station

Apparent Length Feet

Equations and Exceptions:

Total Corrections Feet

Net Length of Project Feet

State Length = Miles

Federal Length = Miles

STANDARD SIGN ASSEMBLIES

Sign No.	Station	Location	North 30"x36" SHRR	North 36"x36" SHRR	North 21"x9" SHRS	South 21"x9" SHRS	East 21"x9" SHRS	West 21"x9" SHRS	North 21"x9" SHRS	30"x36" Stop SHRR	36"x36" Stop SHRR	24"x30" SHRS	36"x36" Stop SHRS	48"x48" SHRS	24"x30" SHRR	24"x36" SHRR	24"x48" SHRR	24"x36" SHRS	21"x15" SHRS	24"x48" SHRS
5	403+00	SBL Rt.										1								
13	424+00	NBL Lt.										1								
23	675+00	EBL Rt. 40 IR			1	1								1						
30	669+00	WBL Lt. 40 IR					1	1						1						
44	443+00	SBL Rt.	1									1								
58	520+00	NBL Lt.										1								
65	547+00	SBL Rt.										1								
68	137+49	Rte Town													1					1
70	404+00	Rte 100 Rt.		1									1			1				
71(a)	408+00	Rte 100 Rt.		1									1					1		
73(a)	410+00	Rte 100 Lt.		1									1						1	
74	413+50	Rte 100 Lt.		1									1							1
77	418+35	Rte 100 Lt.		1									1							1
Totals			1	1	1	1	1	1	1	1	1	5	5	2	2	1	1	1	1	1

STANDARD SIGN ASSEMBLIES (Not Erected)

(Delivered to State Maintance Dept.)

Sign No.	Station	Location	North 30"x36" SHRR	North 36"x36" SHRR	North 21"x9" SHRS	South 21"x9" SHRS	East 21"x9" SHRS	West 21"x9" SHRS	North 21"x9" SHRS	30"x36" Stop SHRR	36"x36" Stop SHRR	24"x30" SHRS	36"x36" Stop SHRS	48"x48" SHRS	24"x30" SHRR	24"x36" SHRR	24"x48" SHRR	24"x36" SHRS	21"x15" SHRS	24"x48" SHRS
41	723+00	EBL Rt. 40 IR												1						1
Totals														1						1

TRENCHING & BACKFILL TYPE II (24")

Station To Station		Sign No.	Pole Loc.	Sign Loc.	Lin. Ft.	Sheet No.	Remarks
399+28	404+25	3	S.B.L. Rt.	S.B.L.	528	51	O.R. #24
432+53	430+50	15	N.B.L. Lt.	N.B.L.	238	51	O.R. #24
667+28	669+25	21	W.B.I. 40 IR	E.B.L. 40 IR	231	51	O.R. #24
1261 85	699+65	32	Baum Rd. Lt.	W.B.L. 40 IR	546	51	O.R. #24
1261 85	711+50	36, 39	Ballas Rd. Lt.	E.B.L. 40 IR	1089	51	O.R. #25
Total:					2,632 Lin. Ft.		

CABLE CONDUIT

1" Cable Conduit 2 No. 6 Conductors Pay Plan Quantity 1,390 L.F.

1" Cable Conduit 2 No. 8 Conductors Pay Plan Quantity 1,780 L.F.

HANDHOLES

Station	Location	Sheet No.	Type A	Type B	Remarks
703+00	40 IR Rt.	51		0	
707+50	40 IR Rt.	51		0	
707+20	40 IR Lt.	51	1	0	Change Order #19
	Total:		1 Ea.	0	

GUARD RAIL (TYPE A)

Station To Station		Location	Sheet No.	Length	Sign No.
403+40	404+35	S.B.L. Rt.	51	75	3
430+20	431+15	N.B.L. Lt.	51	75	15
668+60	668+35	E.B.L. 40 IR Rt.	51	75	21
694+55	695+30	W.B.L. 40 IR Lt.	51	75	32
702+10	702+85	E.B.L. 40 IR Rt.	51	75	36
711+40	712+15	W.B.L. 40 IR Lt.	51	75	39
Total:				450	Lin. Ft.

GENERAL SUMMARY — FINAL PLANS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only

FINAL PLANS

Prepared By E. Burkhart Date Jan. 19 66 Checked in Dist. Office By R. Tauschel Date August 19 66 Checked in Central Office By _____ Date _____ 19 __ Revised By _____ Date _____ 19 __

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FINAL PLANS

STATE	FEDERAL PROJECT No. & SEC.	PROJECT TYPE	SHEET No.
MO.	I-244-4(25)		3
COUNTY		ROUTE	SEC.
St. Louis		I-244	

CITY OF CREVE COEUR

NW4 Sec. 15 T45N R5E

NE Cor. NW4 NW4 Sec. 15

ST. JOHN'S HOSPITAL

Property Fence (5' Type A) (Future Const.)

Paved V Ditch

6'E.B. Ditch

18" RCP

24" RCP

℄ - I-2447

S4°50'05"W

D.B.

Total R/W Markers = 11

Begin Proj. I-244-4(25)214

Dr. Esmt. Perm.

ST. JOSEPH'S CONVENT OF MERCY IN ST. LOUIS

(180)

(181)

PLAN: INTO ROLL No. 4 Sht. 10 Dgn. 14-10

PLAN	BY	DATE
TRACED	J.Wood	7-56
PLOTTED	J.Wood	7-56
CHECKED	M.E.Robinson	7-57

PROFILE: TRACED / PLOTTED / CHECKED / NOTE BOOK No. / E. & S. NOTES / STRUCTURE NOTES (WING DWG.)

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD

U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

FINAL PLANS

STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
MO	I-244-4(25)	3A	
ST. LOUIS	I-244		

PLAN — SURVEYED: O. Hertzel; DRAWN: M.G. Eubelmann; NOTE BOOK: NO. JC-140 Pg. JC-115; CHECKED: RT. OF WAY CHECKED

PROFILE — SURVEYED: O. Hertzel; DRAWN: M.G. Eubelmann; NOTE BOOK: NO. JC-140 Pg. JC-115; CHECKED: STRUCTURE NOTATIONS CHKD.

BY: O. Hertzel, M. G. Eubelmann

DATE: 3-26, 3-26, 3-27

JOSEPH & ROSE SACKS
101 Ac. New R/W
0.22 Ac. Perm. Esm't
5.50 Ac. Rem. Lt.

0.22 Ac. Perm Esm't

0.01 Ac. Perm. Esmt.

Perm. Esm't (Utilities)

Property Fence (5' Type A)

Perm. Esm't (Utilities)

G. I. B. Ditch

℄ I-244

D.B.

12" RCP

Paved V Ditch

Sod V Ditch

Paved V Ditch

Property Fence (5' Type A)

Perm. Esmt. (Utilities)

Perm Esmt (Utilities)

25' W. Rd Esmt.

Lot 35

Lot 34

Lot 36

Lot 37

Lot 33

BEACON HILL

Beacon Hill Court

1 Sty Br. No. 1866

ST. JOSEPH'S CONVENT OF MERCY IN ST. LOUIS
6.20 Ac. New R/W
23.85 Ac. Rem. Rt.

Parcel Number	Owner	Acres R/W	Acres Temp. Easm't	Acres Rem.	Acres Perm. Esmt
177	Ray H Mitchler	1.12	None	0.00	
178	Algernon F & Adeline O'Brien	0.19	None	0.95	0.05
178-A	Board of Trustees (Beacon Hill Addition)	0.37	None	—	
179-A	Marvin Gelber	0.28	None	0.00	

640
630
620
610
+0.40%

365 6 7 8 9 370 1 2 3 4 375 6 7 8 9 380

BENCH MARKS (USGS DATUM)
BM 30 Chiseled Square in West Side of Street Curb 175' Right Sta. 370+12 El. 631.78

PLATE 1 - PLAN PROFILE STANDARD

FINAL PLANS

FINAL PLANS

5	MO.	I-244-4 (25)	4
6	St. Louis	I-244	

ST. JOHN'S HOSPITAL (181)

TEMPLE EMANUEL (184A)

MILLSTONE CONSTRUCTION CO.

(184)

Property Fence (5' Type A)

399+29.70 ℄ Survey - 15+00 ℄ Conway Rd.

NOTE: Prop. Fence 6"± Inside R/W

℄ CONWAY RD.

℄ I-244

EFF. EFF. RAILWAY SEWER

Property Fence (5' Type A)

Perm. Esmt. Drainage

ST. JOHN'S HOSPITAL (181)

399+29.7
2-(54-68-54) Cont. Voided Slab
Sk. 37°44' L.A. 51' Rdwy.
Br. No. A 1052

Total R/W Markers = 13

Class A Underdrains Sta.	Side	Length 6"	No. Markers
399+100 R. Rt.	Lt.	60'	1
TOTALS		60'	1

22" A.C. Surf. - 34" Ribbed

Sod V Ditch

A.R. BETZ & WIFE
Ac. Taken .119
Ac. Rem. .990

1½ Sty. Brick House

COVENANT COLLEGE (182)

From 388+00

To 410+87

* Cl. A 37,187
Fill 30,901
* Incls. 38 C.Y. Outlet & Inlet Exc.

4 Conc. Slope Protection

621.0 613.0 624.0 610.5 622.5 609.1

BENCH MARKS
BM. #32A. Elev. 615.49 Spike in East Side P.P. 268' Rt. Sta. 400+67

PLATE I—PLAN-PROFILE D. P. C. & A. C. STANDARD
B. B. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

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FINAL PLANS

STATE	FEDERAL PROJECT NO. or STA.	SHEET NO.	SHEET NO.
5	MO. I-244-4(25)	5	
DIST. NO.	COUNTY	DIST. NO.	
6	ST. LOUIS	1-244	

Brick Bldg.

TEMPLE EMANUEL

TEMPLE EMANUEL

M. M. RICE, JR. & WIFE

Ac. Taken .068
Ac. Rem. .936

E. E. NIEBRUEGGE & HIS WIFE

Ac. Taken 0.015
Ac. Rem. 1.631

P.I. 6+75.63
Δ 24°10'15"
D 6°00'
T 204.59
L 402.92
R 955.37
S 0.08
Ls 200'

5+79 - 30' C.E. 85.00 Paved Apprs.

8+66 30' C.E. 85.00 Paved Apprs.

MILLSTONE CONST. CO.

Property Fence (5' Type A)

S 41°50'05" W

N 71° 30' 10" W

N 47°25'55" W

℄ CONWAY RD. 1

℄ I-244

399+29.7 ℄ I-244 = 15+00 CONWAY RD.

TOTAL R/W MARKERS = 15

ST. JOHN'S HOSPITAL

Ac. Taken 13.300
Ac. Rem. 72.99
Ac. Rem. Rt. 7.73
Ac. Rem. Lt. 70.26

Perm. Esmts. Rt. .160 Ac.

200' V.C.
M.C. = 0.23
K = 222

-0.30%

+0.60%

600' V.C.
USD 364'
K = 94.5

-5.75%

360' V.C.
K = 73.5

-0.85%

B.M. #31A Elev. 634.43.
"E" on East W.W. Fl. at N.B. Lane Bridge @ Sta. 398+40±

CONWAY ROAD
Sta. 399+29.70 Const. ℄

PLATE I—PLAN-PROFILE. O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

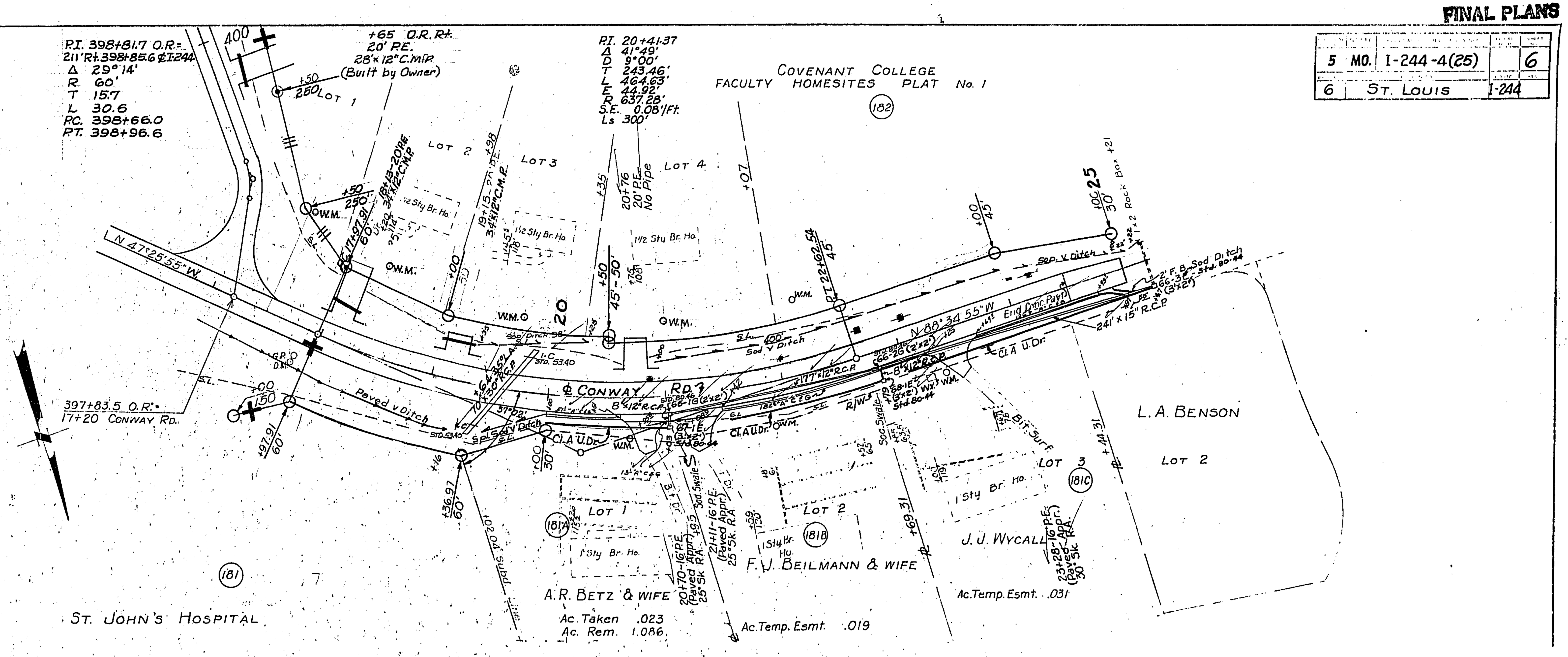
FINAL PLANS

5	MO.	I-244-4(25)		6
6	St. Louis		I-244	

Plan	By	Date
Surveyed	O. Kitzinger	5-61
Plotted	C. Sing	7-61
Alignment Checked	M. Pibelmann	8-61
St. of Way Checked		

Note Book No. X-335 Pgs. 58-67
X-141 Pgs. 62-64

Total R/W Markers = 8			
Class A Underdrains			
Sta.	Side	Length	No. of Markers
20+00-21+03 Conway Rd.	Rt.	120	0
21+50-22+79 Conway Rd.	Rt.	150	0
23+00-25+21.4 Conway Rd.	Rt.	235	0
Totals		505	0



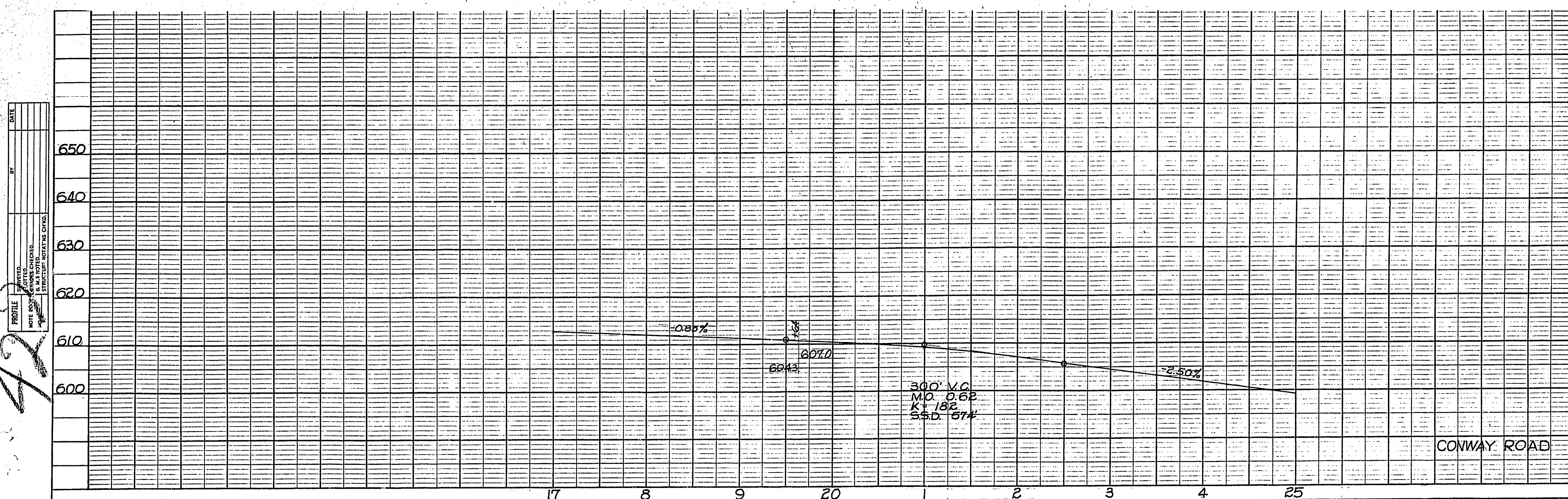


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PLATE 1—PLAN-PROFILE O.P.R.&R.E. STANDARD
U.S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

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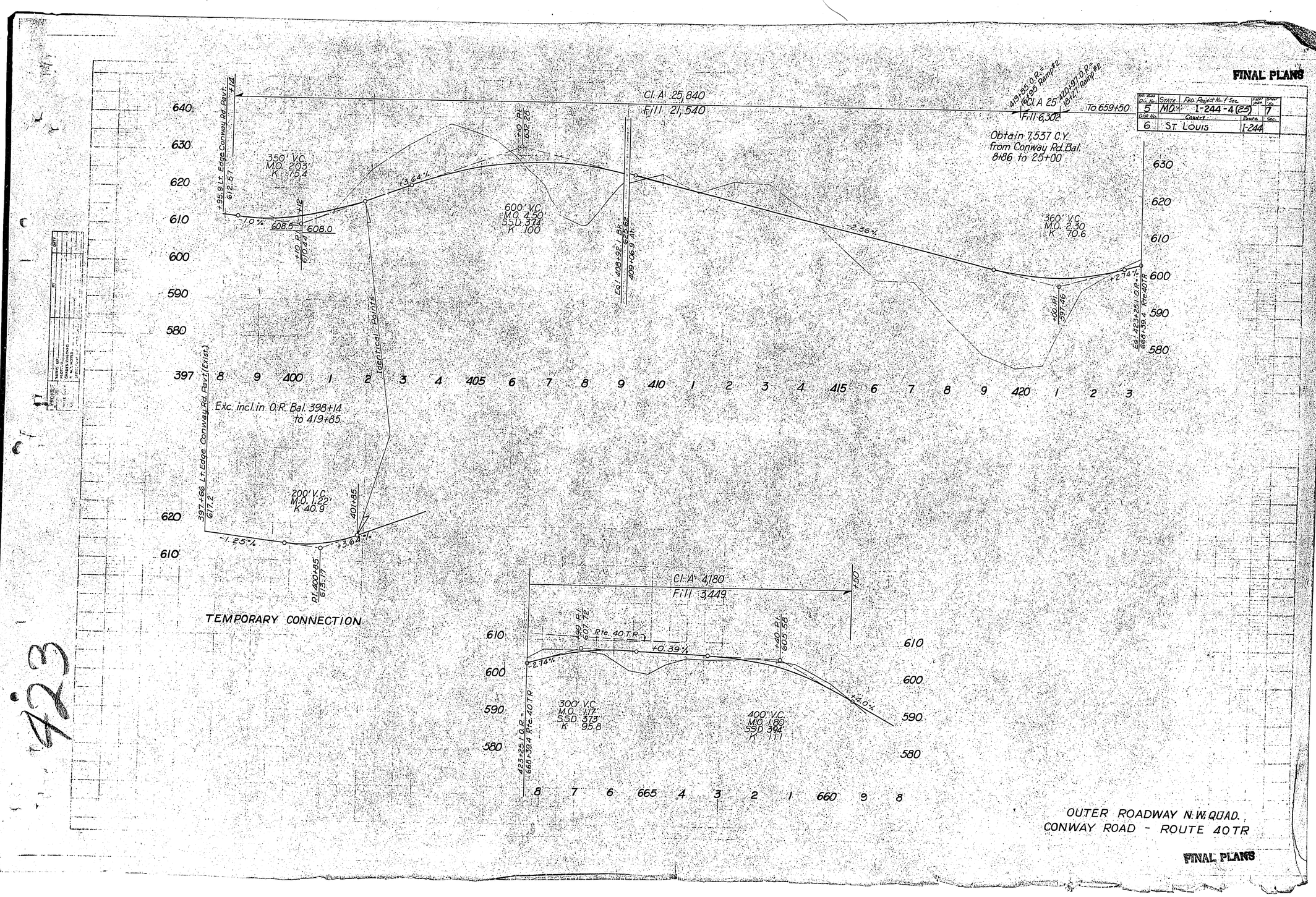
FINAL PLANS

Fed. Aid Dist. No.	State	Fed. Project No. / Sec.	Proj. No.	Sheet No.
5	MO.	I-244-4(25)		7
Dist. No.	County		Route	Sec.
6	St. Louis		I-244	



FINAL PLANS

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FINAL PLANS

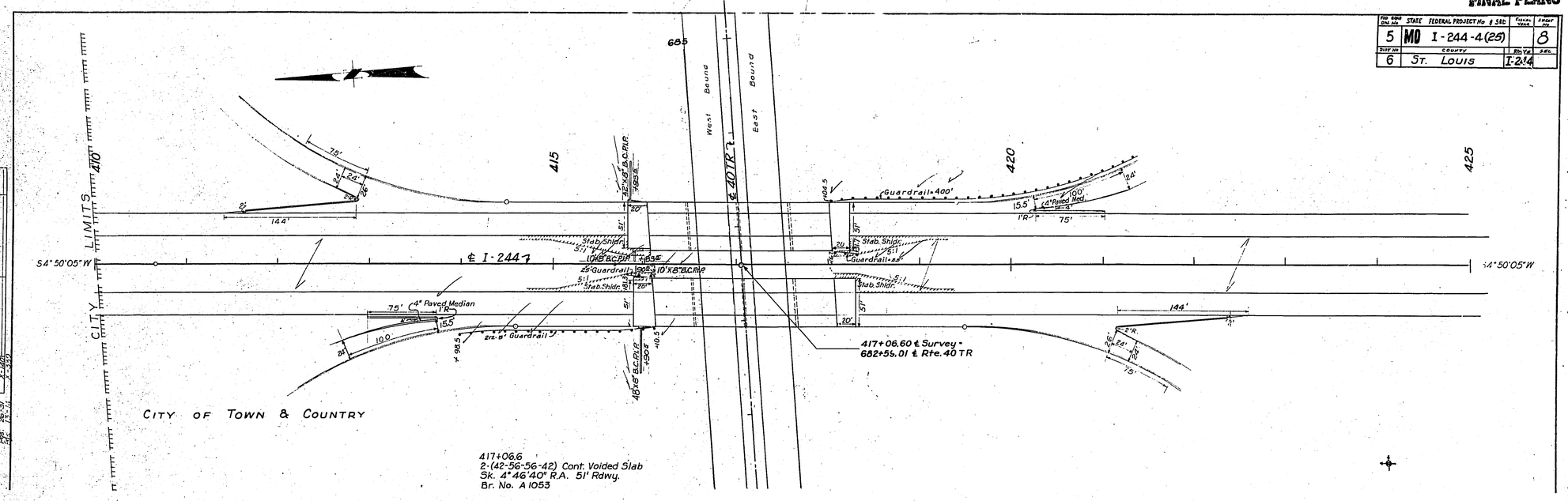
FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO	I-244-4(25)		8
DIST. NO.	COUNTY		ROUTE	SEC.
6	St. Louis		I-244	

PLAN — DRAWN: C. Ward; TRACED: W. Black; CHECKED: H. A. Eisenmann; DATE: 2-25-57, 2-25-57, 2-25-57

NOTE BOOK NO. K-144, K-145

FOR QUANTITIES SEE SHEET NO. 28-31

Scale: 1" = 100'



PROFILE — DRAWN: ; TRACED: ; CHECKED: ; NOTE BOOK NO.: ; STRUCTURE NOTATIONS OKYED

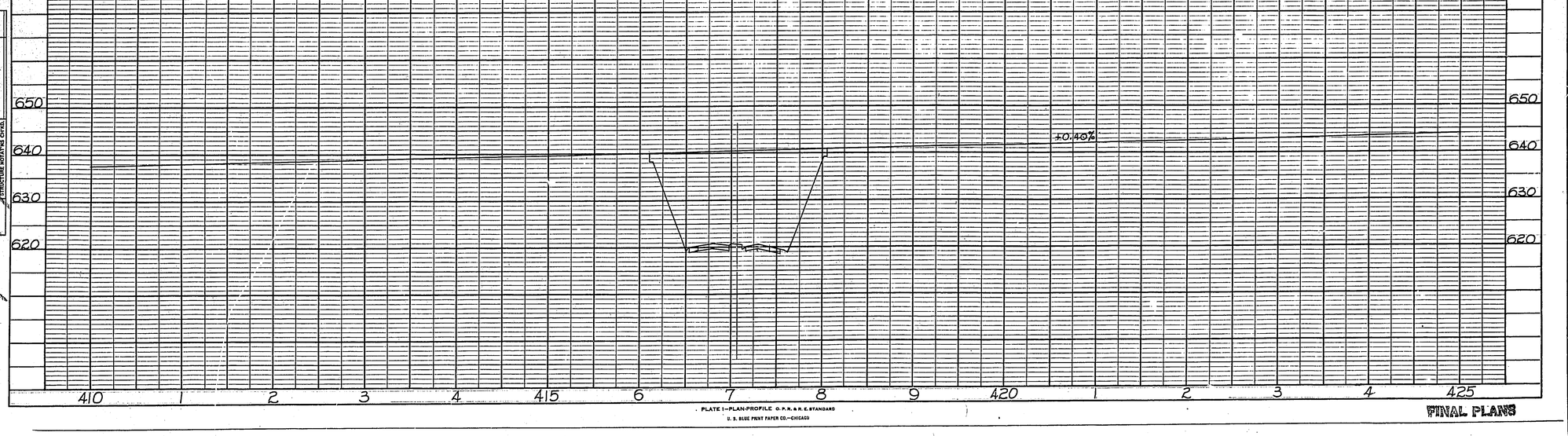


PLATE 1—PLAN-PROFILE. C. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

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FINAL PLANS

STATE	FED. AID PROJECT NO.	FINAL PLANS	SHEET NO.
5	MO. I-244-4 (25)		9
DIST. 6	COUNTY ST LOUIS	ROUTE I-244	SEC.

SEC. 16 T45N R5E

SEC. 15 T45N R5E

(182D) WILBUR DUENKE Ac. Taken .117 Ac. Rem. 4.687

(182C) DORTHY HALLIHAN Ac. Taken .787 Ac. Rem. 9.233

(185H) EDWARD J. FISCHBECK & WIFE

(185G) CLYDE J. SWINFORD & WIFE

(185F) JOHN S. STARK & WIFE

(185E) MARION S. PUTNAM

(185D) RICHARD A. HETLAGE & WIFE

(185C) J.H. McCAMBRIDGE FRANCHOT & WIFE See Line

Ent to be built under Proj. under 10-5(9)

Sta. 656+65.76 = 100-16.5

Sta. 673+00.00 = 673+48.50 Ahd.

Sta. 417+06.6 ℄ I-244 = 682+59.0 ℄ 40TR

℄ 40TR

℄ I-244

S 89°56'35" E

Outer Roadway

Sod V Ditch

22" A.C. Surf. - 34" Base

20' Paved V Dit.

Resurfaced

New Pavt.

Paved Ditch

Ramp 1, Ramp 2, Ramp 3, Ramp 4, Ramp 5, Ramp 6, Ramp 7

TOTAL R/W MARKERS = 6

415, 420, 665, 670, 675, 680, 685, 690

PROFILE

End Resurf.

Pavt. 25' Rt.

Pavt. 25' Lt.

+0.35%

+0.40%

Lt. Pavt. 360' V.C. M.O. 1.62 K 100

Rt. Pavt. 400' V.C. M.O. 1.68 K 107

Lt. Pavt. +3.999

Rt. Pavt. +3.999

650, 640, 630, 620, 610, 600, 590, 580

660 1 2 3 4 665 6 7 8 9 670 1 2 3 4 675 6 7 8 9 680 1 2 3 4 685 6 7 8 9 690

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD

BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

583

FINAL PLANS

5	MO. I-244-4 (25)		10
6	ST. LOUIS	I-244	

TOWERTOWN INVESTMENT CO.

MILLSTONE CONSTR. CO
0.045 Ac. Taken
6.616 Ac. Rem.

UNION ELECTRIC CO.

Ramp J

Ramp I

New Pavt.

Resurfaced

S 89°56'55"E

℄ 40TR

Bldg. STATE OF MISSOURI.

Radio Tower

MISSOURI BAPTIST HOSPITAL

Outer Roadway Lt. Rte. 40
N.E. QUADRANT

P.I. 137390 ℓt.

P.I. 71+00.00
Δ = 10°00'Rt
D = 1°00'
T = 501.30
L = 1000.00

P.C. 704+99.21 Bk.
P.T. 714+98.70 Ahd.

TOTAL R/W MARKERS = 0

819.21'

870.34'

Light Timber

Lot 1

Ballas Rd.

123+60 Ballas Rd. = 0+00 P.E.

B.M. "33A" Elev. 658.54. Chiseled "D" N. side Flagpole base 112'Rt. Sta. 69+32 (40ft)

PLATE 1—PLAN-PROFILE O.P.R.&R.E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

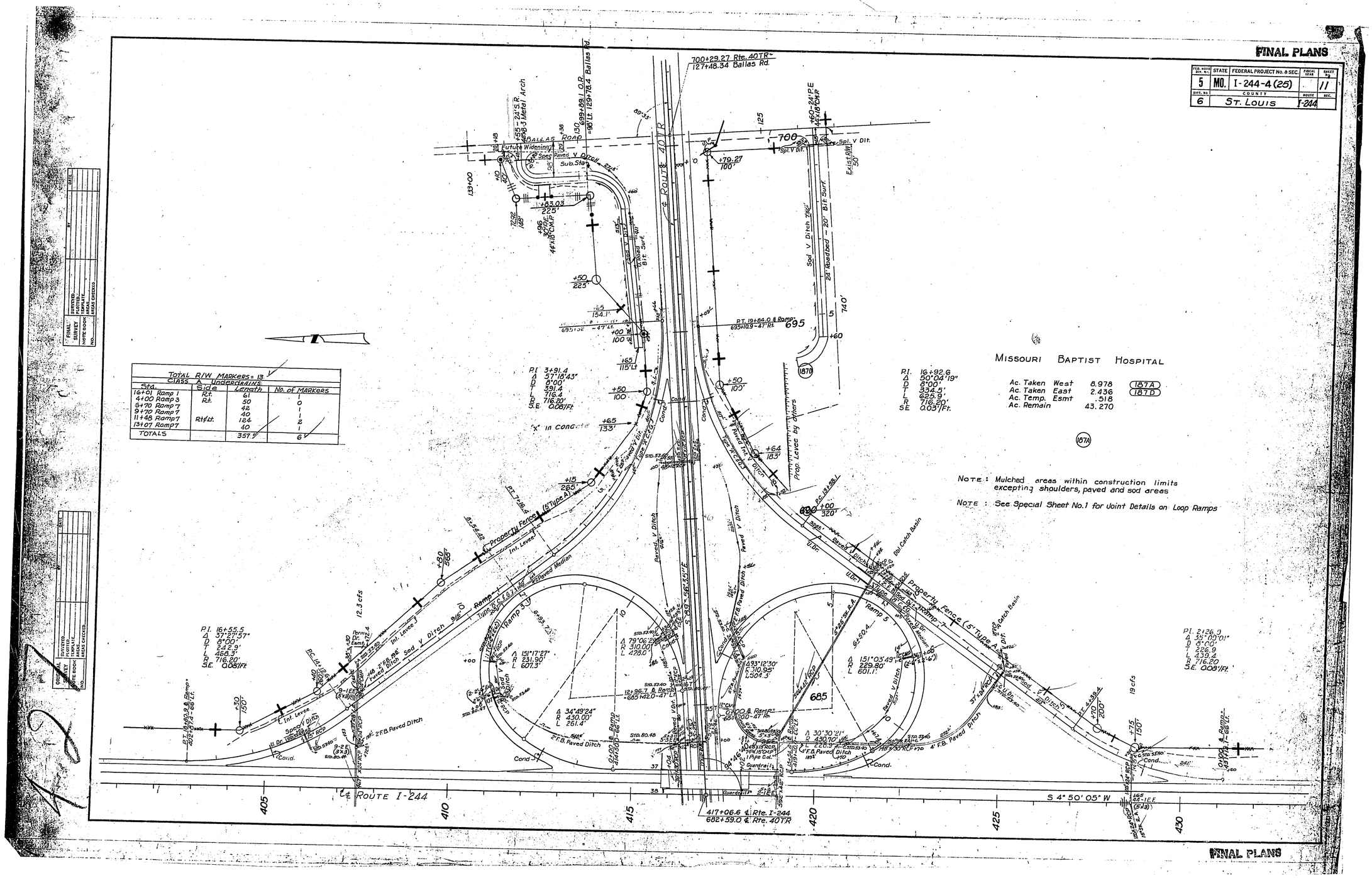
583

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-244-4(25)		11
DIST. No.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
DESIGNED	
NOTE BOOK	
AREAS	
AREAS CHECKED	

TOTAL R/W MARKERS = 13			
CLASS A UNDERBRUSH			
Sta.	Side	Length	No. of MARKERS
16+01 Ramp 1	Rt.	61	1
4+00 Ramp 3	Rt.	50	0
6+70 Ramp 7		42	1
9+70 Ramp 7		40	1
11+46 Ramp 7	Rt & Lt.	124	2
13+07 Ramp 7		40	1
TOTALS		357	6



FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		12
DIST. NO.	COUNTY	ROUTE	SEC.	
6	ST. LOUIS	I-244		

RTE. I-244 S4°50'05"W

417+06.6 ℄ Rte. I-244 = 682+59.0 ℄ Rte. 40 TR

Ramp 2
P.I. 2+80.3
Δ 42°45'
D 6°
T 280.3
L 534.4
R 716.2
S.E. 0.08/Ft.

Outer Roadway
P.I. 406+04.8 (33' Rt. 406+38.0)
Δ 40°15'
D 8°
T 322.3'
L 615.6
R 716.2
W 40'
S.E. 0.08/Ft.
S.E. Trans. 300'

Class A Underdrains			
STA.	Side	Length	No. of Markers
410+90 O.R. Rt.		42	1
414+30 O.R. Rt.		45	1
420+87 O.R. Rt.	Rt.	69	1
422+10 O.R. Rt.		42	1
10+32 Ramp 2		42	1
17+59 Ramp 2	Rt.	64	1
3+08 Ramp 4	Rt.	50	1
666+17 401R Lt. Line		36	0
666+17 401R Rt. Line		24	0
416+20 O.R. Rt. (SW Quad.)	Rt.	63	0
422+50 O.R. Rt.		50	0
24+58 Ramp 8	Rt.	66	1
11+20 Ramp 8		40	1
11+68 Ramp 6	Rt.	50	0
TOTALS		683'	10

Total R/W Markers = 6

Ramp 2
P.I. 17+79.5
Δ 42°28'20"
D 8°
T 278.3
L 530.9
R 716.2
S.E. 0.08/Ft.

Outer Roadway
P.I. 420+72.5 (100 Lt. 671+11.8)
Δ 42°28'20"
D 8°
T 278.3
L 530.9
R 716.2
W 2.0'
S.E. 0.08/Ft.
S.E. Trans. 300'

Ramp 8
P.I. 16+44.9
Δ 47°45'
D 8°
T 317.0
L 596.9
R 716.2
S.E. 0.08/Ft.

Outer Roadway
P.I. 428+15.2 (140' Rt. 427+78.0)
Δ 47°45'
D 8°
T 317.0.
L 596.9
R 716.2
W 40'
S.E. 0.08/Ft.
S.E. Trans. 300'

Ramp 8
P.I. 3+11.6
Δ 47° 01' 40"
D 8°
T 311.6
L 587.9
R 716.2
S.E. 0.08/Ft.

Outer Roadway
P.I. 415+09.8 (75' Rt. 671+14.8)
Δ 47° 01' 40"
D 8°
T 311.7
L 587.9
R 716.2
W 2.0'
S.E. 0.08/Ft.
S.E. Trans. 300'

FINAL PLANS

FED. ROAD DIST. NO.	STATE TECHNICAL PROJECT NO. & SEC.	TOTAL SHTS.	SHEET NO.
5	MO. I-244-4(28)274		13
6	St. Louis	I-244	

Temp. Bypass
P.I. = 16+84.22
Δ = 99°47'03"
T = 356.16'
L = 522.47'
R = 300'
S.E. = .08'/ft
Ls = 216'

Ramp #1 Surface Ends Bypass Surface Begins

PC. 14+18.6 9-1EE

9" Reinf. Conc. Pavmt. With 6" Type C Shlds. 18' Wide

EQ. 13+29.1 Ramp #1 Bk = PT. 13+72.6 Bypass Ah.

405

410

I-244

9-2E

24" RCP

A.C. Surf. 30' Wide

15

P.T. 18+50.5 Bypass

Bypass Surface Ramp #2 Surface Begins

EQ. 19+43.4 Bypass Bk = P.T. 5+34.4 Ramp #2 Ah.

G 109.4 Ramp #2

9" Reinf. Conc. Pavmt. With 6" Type C Shlds. 18' Wide

1-4M

P.C. 15+01.2 Ramp #2

48" RCP

1-5M

Temp. Bypass
P.I. 18+01.04
Δ 23°42'
D 11°54'
T 101.04'
L 199.19'
R 481.55'

8-1E

Chip Seal Surf. 30' Wide

EQ. 17+00 Ramp #2 = P.C. 17+00 Bypass

18+00 Ramp #2 Build Ramp #2 To Here

EQ. P.T. 18+99.2 Bypass Bk = 670+06.81 ~ 40TR ~ 72.4' Lt. Ah.

40 TR

668+00 ~ 62.0' Lt. Route 40 TR

666+70 ~ 62.0' Lt. Route 40 TR

Ramp 2 Accel Lane with 6" Type C Shldr.

664+77.8 ~ 47' Lt.

9" Reinf. Conc. Pavmt. With 6" Type C Shlds. 18' Wide

EQ. 5+53.5 Ramp #7 Ah = P.T. 9+94.3 Bypass Bk.

425

P.T. 4+39.4 Ramp #7

Ramp #7 Surface Begins Bypass Surface Ends

430

Temp. Bypass
P.I. 18+26.20
Δ = 97°05'59"
T = 339.68'
L = 508.41'
R = 300'
SE = .08'/ft
Ls = 216'

P.C. 14+86.5 Bypass R = 300'

Bypass Surface Ramp #8 Surface Begins

A.C. Surf. 30' Wide

15

EQ. 13+27.9 Bypass Ah = 12+52.9 Ramp #8 Bk.

9" Reinf. Conc. Pavmt. With 6" Type C Shlds. 18' Wide

P.T. 5+87.9 Ramp #8

5

24" RCP

A-6E

EQ. 3+00 Ramp #8 = P.T. 3+00 Bypass

Begin Ramp #8 12+50 Ramp #8

670+97 12" P. (Temp)

P.C. 1+30.3 Bypass = EQ. 669+85.88 ~ 40TR ~ 71.1' Rt.

670

A.C. Surf. 30' Wide

367 12" P. (Temp)

+91 12" P. (Temp)

666+50 ~ 60' Rt.

Ramp 8 Decel. Lane omit C/G & Type A Shldr. While Bypass is in use

12" P. (Temp)

665

664+59.1 ~ 47' Rt.

Temp. Bypass
P.I. 2+16.23 ~ 74' Rt.
Δ 22°05'45"
D 13°01'
T 85.95'
L 169.72'
R 440.12'

TEMPORARY BYPASS
ROUTE 40 TR & I-244

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO.

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO.

FINAL PLANS

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	I 244 (25) 274	14
DIST. NO. 6	COUNTY ST. LOUIS	ROUTE 244

PROFILE
SURVEYED BY
DRAWN BY
CHKED CHECKED BY
DATE
P.A. SCHNEIDER
NOTE BOOK
NO.
R.R.X. NOTED
RECOMMENDED FOR APPR.

C.I.A. 421

C.I.A. 573

C.I.A. 1205

C.I.A. 1404

TEMPORARY BYPASS ROUTE 40 TR. WESTBOUND

TEMPORARY BYPASS ROUTE 40 TR. EASTBOUND

EQUATION

VC 150'
MO 0.13
K 1174

VC 300'
MO 0.21
K 545

VC 200'
MO 0.3
K 1681

VC 300'
MO 1.42
K 72.2

VC 150'
MO 0.27
K 134

VC 140'
MO 0.44
K 52.2

VC 200'
MO 0.53
K 94.3

VC 200'
MO 0.56
K 89.6

NOTE: 0.35% Grade Tangent to Ramp #2 at Sta. 17+00

4-30

FINAL PLANS

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		15
DIST. NO.	COUNTY		ROUTE	ETC.
6	ST. LOUIS		I-244	

Sec 15

+50 225'

EXIST. R/W

+00 00'

+50 100'

+65 133'

695

RTE. 40 TR

MATCH LINE 692+30

(184F) TOWERTOWN INVESTMENT CO.

(184C) M. M. RICE, JR. & WIFE

Ac. Taken .035
Ac. Rem. .968
Temp. Esmt. .021

(184F) TOWERTOWN INVESTMENT CO.

Ac. Taken 356
Ac. Rem. 5.406
Temp. Esmt. .104

MATCH LINE 692+30

+15 265'

+80 565'

Fr. Inuine

Temple

(184A) TEMPLE EMANUEL

Ac. Taken 1.055
Ac. Rem. 5.816
Ac. Taken Lt. North .472
Ac. Taken Lt. South .583
Temp. Esmts. .116
Perm. Esmt. .0185

Drain Esmt. Perm.

+40 260'

+50 150'

RAMP 1

RAMP 3

(184E) J. ALLEN DAVIS, JR. & WIFE

Ac. Taken 3.399
Ac. Rem. 1.281
Ac. Temp. Esmt. .020

Existing R/W

690

685

RTE. 40 TR S 89°56'35" E

NOTE: See Sheet #11 for geometric and construction details

(184) MILLSTONE CONSTRUCTION CO.

Ac. Taken 31.362 (Incls 3' strip .004 Ac.)
Ac. Rem 6.545
Ac. Rem. Lt. North .337
Ac. Rem. Lt. South 1.321
Ac. Rem. Rt. North .024
Ac. Rem. Rt. South 4.863
Ac. Temp. Esmt. South .028

405 410 415

RTE. I-244 S 4°50'05" W

FINAL PLANS

583

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(35)		16
DIST. NO.	COUNTY		ROUTE	SEC.
6	St. Louis		I-244	

R.T.E. I-244

S 4°50'05" W

405 410 415

85°13'20"

417+06.6 ℄ I-244
682+59.0 ℄ RTE. 40 TR

403+00
250'

406+00
210'

409+00
360'

408+50
440'

680

S 89°56'35" E

(182)

COVENANT COLLEGE

Ac. Taken	1.137
Ac. Rem.	21.638
Ac. Rem. Rt. I-244	.392
Ac. Rem. Lt. Conway	.745
Ac. Temp. Esmt. East	.080
Ac. Temp. Esmt. Sta. 18+13 Lt. Conway Rd.	.016
Ac. Temp. Esmt. Sta. 19+15 Lt. Conway Rd.	.007
Ac. Temp. Esmt. Sta. 20+76 Lt. Conway Rd.	.016

MATCH LINE
673+30

EXISTING R/W

RTE. 40 TR

100'

670

20

(182A)

JOHN P. SPARKS

Ac. Taken	2.432
Ac. Perm.	9.586
Temp. Esmt West	.104
Temp. Esmt East	.055
Perm. Esmt.	.046

670+40
255'

30'

40'

50'

Drain Esmt. Perm.

669+50
160'

MILLSTONE CONSTRUCTION CO.

(184)

NOTE: See Sheet #12 for geometric and construction details

OUTER ROADWAY

RAMP 2

RAMP 4

674+00
465'

Sec. Line

SEC. 15

SEC. 16

MATCH LINE
673+30

EQUATION
673+48.5 Ahead
=673+47.0 Back

675

FINAL PLANS

583

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.	SHEETS IN JOB
5	MO.	I-244-4(2,5)		17
DIST. NO.	COUNTY		ROUTE	
6	ST. LOUIS		I-244	

MATCH LINE 692+30

Sec. 15

(187A) MISSOURI BAPTIST HOSPITAL
Ac. Taken, East 2.436 (187D)
Ac. Taken West 6.978 (187A)
Ac. Rem. 43.270
Temp. Const. Estmt. 5.8

(187B) STATE OF MISSOURI

RTE. 40 TR

EXISTING R/W

RAMP 5

RAMP 7

10'-0" Conc. Barrier

695

690

685

638 636 634 632 630 628 626 624 622

+64 183

100 329'

+50 100'

MAT. LINE 692+30

+70 200'

+75 150'

NOTE: See Sheet #11 for geometric and construction details

(187) MARIAN E. CAULK, EVANS
JOHN R. CAULK, JR.
BESSIE H. CAULK
Ac. Taken .491
Ac. Rem. 7.811
Perm. Esmt. Utility .109

Temp. Const. Esmt. Ramp 7

(188) SYDNEY SHOENBERG & WIFE

S 4°50'05" W
RTE. I-244

(188) WILLIAM B. ASHBY & WIFE

(188) ISHAM E. GORDON & WIFE

(189) E. B. McDONALD, JR. & WIFE

420 425 430

FINAL PLANS

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FINAL PLANS

REV. PROJECT NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		18
6	COUNTY: ST. LOUIS		RURAL: I-244	

Sec 15 SW¼ SW¼

S4°50'05"W RTE. I-244

94°47'

94°34'

85°11'

105.54

420

425

430

680

675

670

S89°56'35"E

RTE. 40 TR

ROUTE 40 TR

Existing R/W

100'

97.50

77.75

99.47

99.94

16.48

640

638

636

634

632

630

628

626

624

622

620

618

616

614

612

610

608

606

WILLIAM B. ASHBY & WIFE
Ac. Taken 3.579
Ac. Rem. 0

(186)

(185)

SYDNEY SHOENBERG & WIFE
Ac. Taken 4.045
Ac. Rem. 0

(186A)

E. B. McCORMICK & WIFE
Ac. Taken 3.525
Ac. Rem. .048
Temp. Esmt. .019

(188)

EDGAR B. McDONALD, JR. & WIFE

(189)

430

431
200'

110'

65'

Dr. Esmt. Perm.

140'

ISHAM E. GORDON & WIFE

428
262'

425

426+30
382'

RAMP 6

OUTER ROADWAY

MATCH LINE 673+30

(188B)

SUSAN S. BARNES & SARAH M. BARNES
Ac. Taken .090
Ac. Rem. 3.490
Temp. Esmt. .033

Chat
Ins

(185B)

WILBERT W. LAKE & WIFE
Ac. Taken 2.055
Ac. Rem. 1.526

420

Sec. Line

NOTE: See Sheet #12 for geometric and construction details

Eq! 673+48.5 Ah.
673+47.0 Bk.

MATCH LINE 673+30

(185A)

J. H. FRANKINBURGER & WIFE
Ac. Taken .611
Ac. Rem. .393
Temp. Esmt. .025

L 430.1

671+32
300'

E 429+07.9

415

RICHARD A. HETLAGE & WIFE
670+20
160'
Ac. Taken .715
Ac. Rem. 2.341
Temp. Esmts .044

L 430.24

(185B)

MARION S. PUTNAM
Ac. Taken .098
Ac. Rem. 1.902
Temp. Esmt. .025

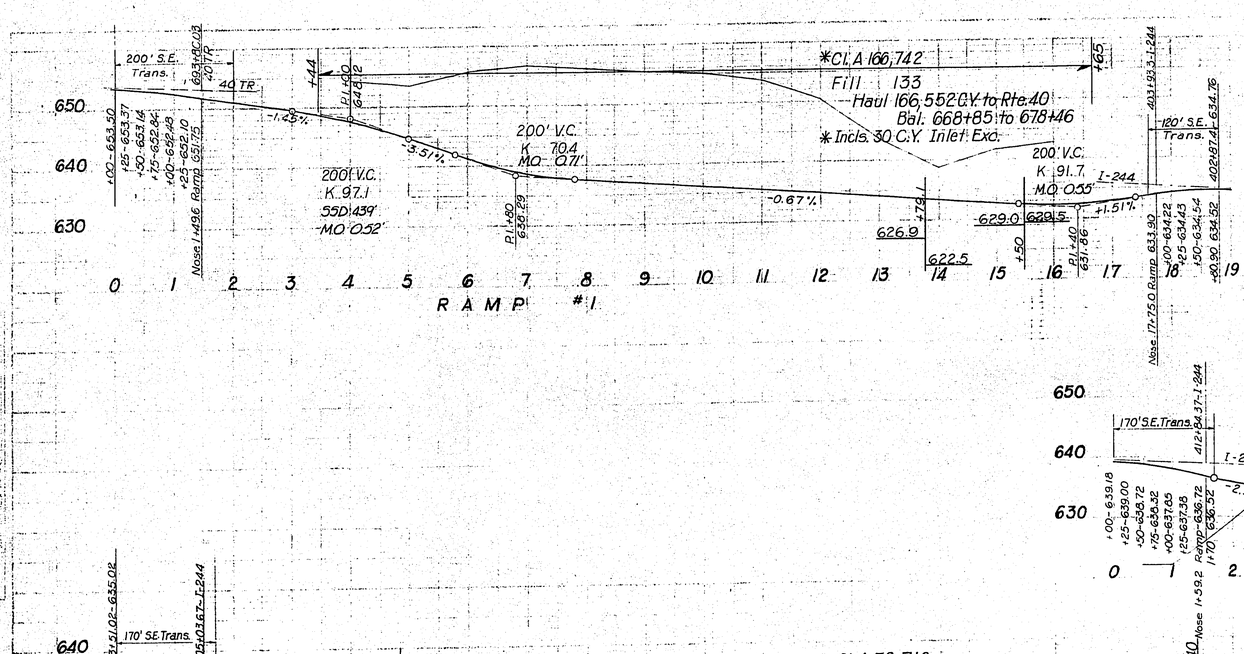
FINAL PLANS

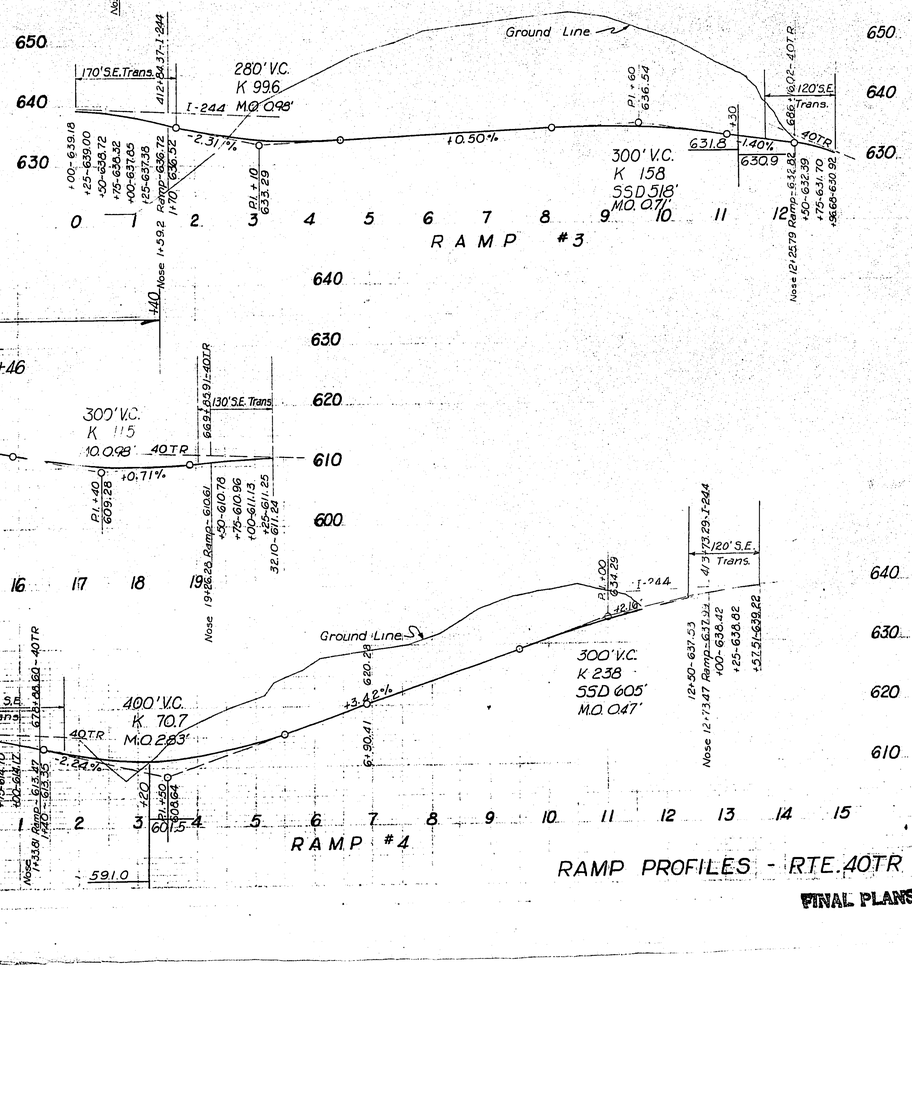
ORIGINAL SURVEY — DATE — BY — PLOTTED — CHECKED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO.

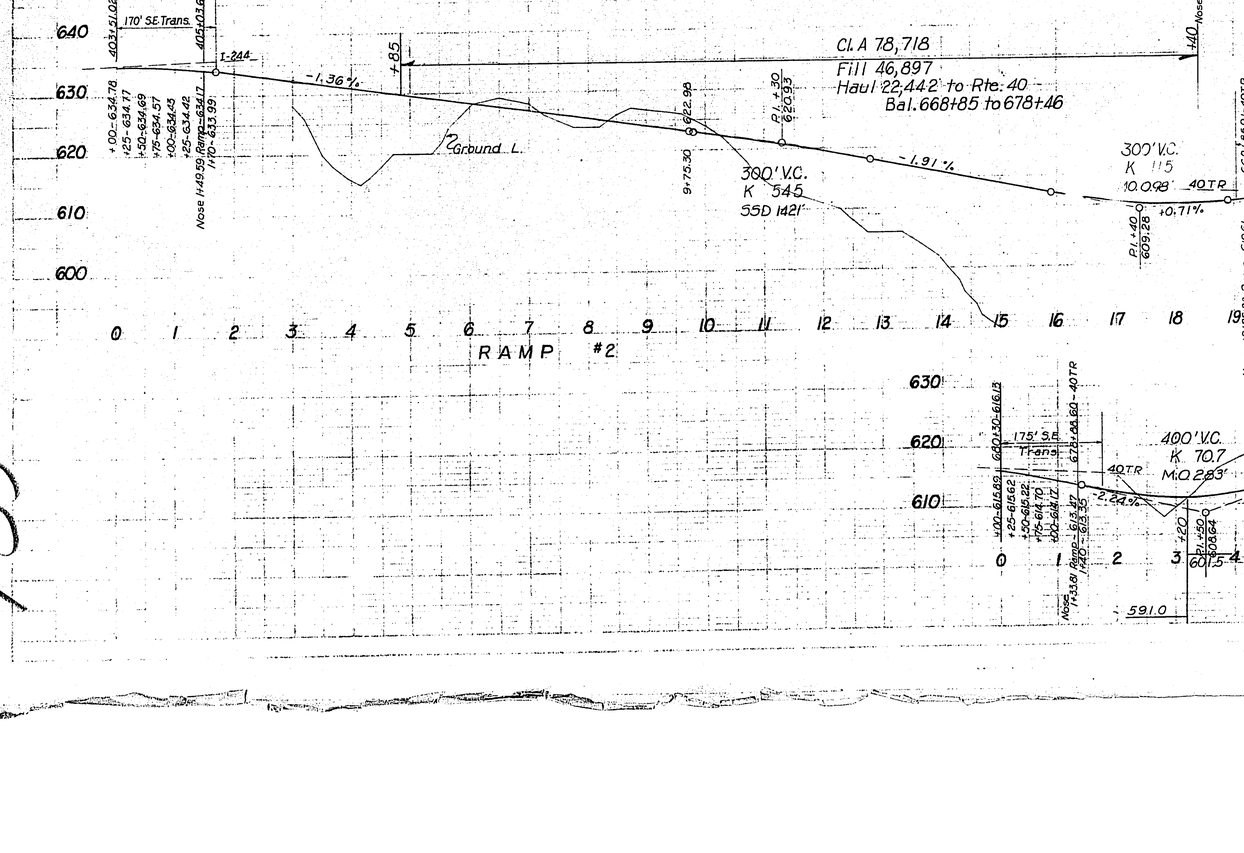
FINAL SURVEY — DATE — BY — PLOTTED — CHECKED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO.

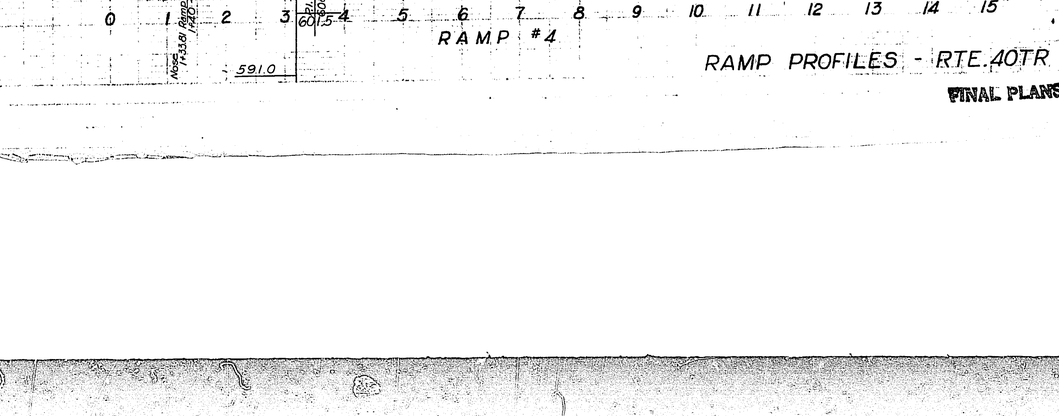
583

MO.	I-244-4(25)	19
6	ST. LOUIS	I-244





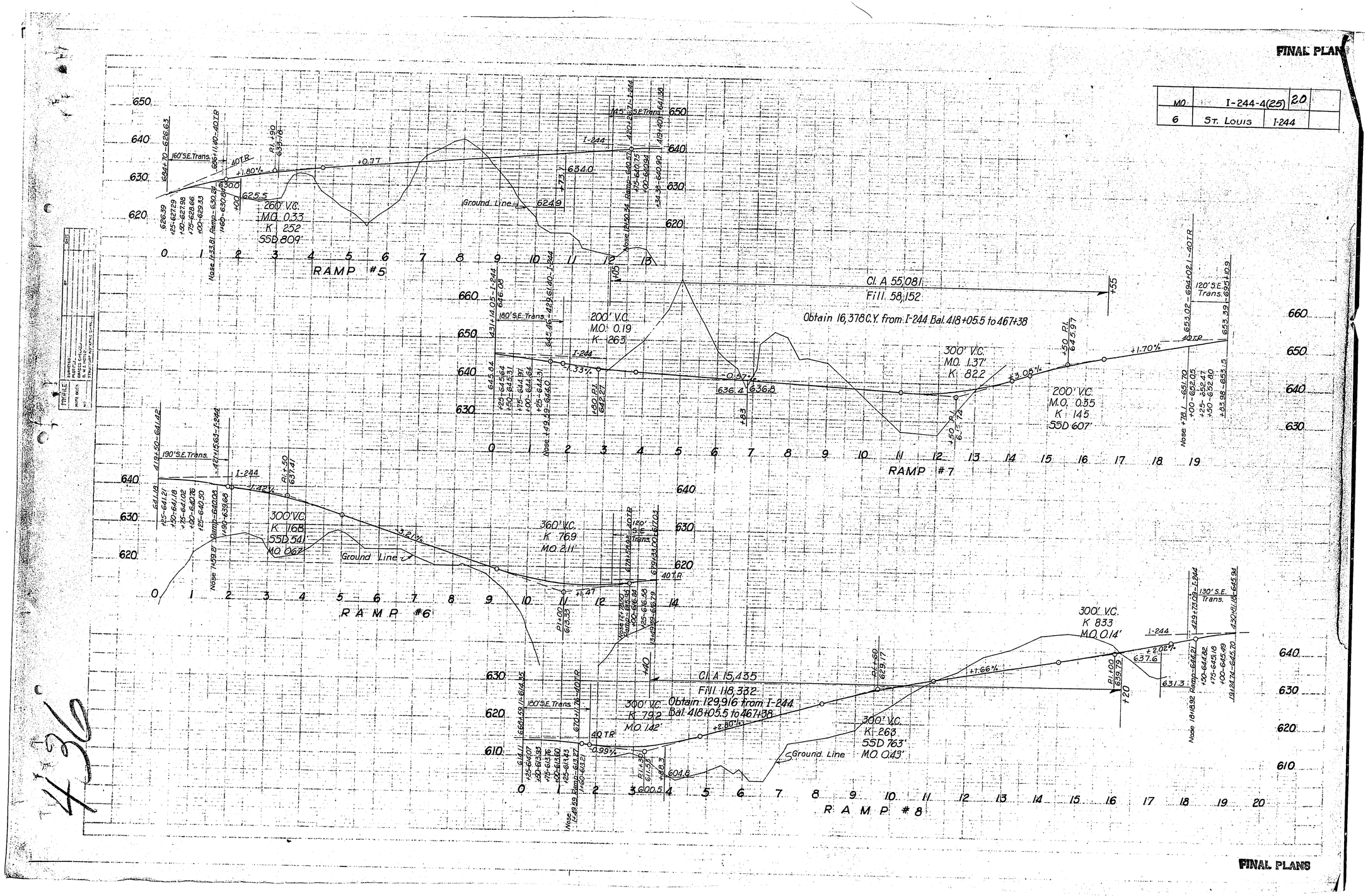




RAMP PROFILES - RTE. 40TR

435

MO.	I-244-4(25)	2.0	
6	ST. LOUIS	I-244	



FINAL PLANS

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FINAL PLANS

STATE: MISSOURI | FED. PROJ. NO.: I-244-4(25) | SHT. NO.: 21
DIST. NO.: 6 | COUNTY: St. Louis | ROUTE NO.: I-244

Cl. A 7,293
Fill 6,056
No Overhaul Allowed

17+88 Ramp "B" 439+55 O.R. To 439+00

+50 | 603.75 | +3.20% | 606.4 | 608.7 | +41 | 400' P.I. 616.35 | -0.41% | 400' V.C. M.O. 1.80' SSD 394' K 111 | Eq' 665+03.12 Pvt. 40'R 611.98' 2.00% Elev. 614.50 Rdwy. | 605.1 | +20 | 605.8 | 400' P.I. 612.51 | +3.57% | 400' V.C. M.O. 1.99' K 101 | 400' P.I. 635.62 | +0.82% | 400' V.C. M.O. 1.37' SSD 454' K 145 | 630.6 | 628.5 | 400' P.I. 642.87 | 400' V.C. M.O. 1.87 SSD 387 K 107 | I-244

Cl. A 6,493
Fill 6,606
Obtain 1,437 from I-244 Bal. 418+05.5 to 467+38

+00 — Yardage included in I-244 Quantities

100' P.I. 645.87 | 0.82% | 400' V.C. M.O. 1.57' SSD 387' K 107 | 628.3 | 100' P.I. 651.26 | 623.0 | 100' P.I. 660.54 | 480' V.C. M.O. 3.95' K 122.9 | +3.66% | 400' V.C. M.O. 1.36' SSD 458' K 148 | +0.95% | Edge Clayton 459+71.5 673.60

Yardage Incl. in I-244 Quantities

Edge Clayton 459+93.4 673.37 | 1.05% | 100' P.I. 663.95 | 300' V.C. M.O. 0.70' SSD 522' K 140

S.W. QUADRANT RIGHT TO CLAYTON ROAD OUTER ROADWAY RIGHT

FINAL PLANS

PROFILE: DESIGNED, PLOTTED, DRAWN, CHECKED, QUANTITIES CHECKED, STRUCTURE NOTATIONS CHECKED

583

FINAL PLANS

5 MO I-244-4(25) 22
6 St. Louis I-244

Sec. 15 SW¼ SW¼ | Sec. 22 NW¼ NW¼

Missouri Baptist Hospital | Marian E. Caulk Evans, John R. Caulk, Jr., Bessie H. Caulk | E. A. Henske & Ruth Henske

(190) Ac. Taken 1.462
Ac. Rem. 8.181
Perm. Esmt. Utility .320

Const. Esmt. Temp.

Property Fence (5' Type A)

15' Utility Easement For Union Electric Co.

NOTE: Prop. Fence Approx. 6' Inside R/W

Int. Levee

Sod 'V' Ditch

697 ± L.F. - 2' F.B. Paved Ditch

Hdwl. I-C Std. 53.40

24" RCP

14-1.66 STD. 80.48 (5'x3')

℄ I-244?

S 4°50'05" W

TOTAL R/W MARKERS - 12
CLASS A UNDERDRAINS

Sta.	Side	Length	No. of Markers
435+30 O.R.Rt	Rt.	44'	1
437+73 O.R.Rt	Rt.	125'	2
TOTALS		169'	3

Property Fence (5' Type A)

22' A.C. Surf. - 34' R/Rbed

OUTER ROADWAY

Spl. Sod 'V' Ditch

Sod 'V' Ditch

Sod 'V' Ditch

2' F.B. Paved Ditch

Paved 'V' Ditch

Rock Fill

24" S.R.

Jefferson Lane

5'ø Storm

6'x4' Box

Hdwl. I-C Std. 53.40

Hdwl. I-C Std. 53.40

(3x2) Std. 80.44 45°/E

(3x2) Std. 80.44 45°/E

+0.40%

B.M. 35A Elev. 643.59. Spike in E. side 15" Twin Oak 27.0' Rt. Sta. 439+84

PLATE 1—PLAN-PROFILE. © P.R.&R.E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

583

FINAL PLANS

FED. AID NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
5	MO.	I-244-4(25)	23	
SHT. NO.	COUNTY			
6	St. Louis	I-244		

(190) E.A. HENSKE & RUTH HENSKE

(192) JOHN V. LA BARGE & WIFE
Ac. Taken .231
Ac. Rem. 1.692
Perm. Esmt. Utility .128

(193) LOREN E. EGLEY & WIFE
Ac. Taken .083
Ac. Rem. 0.77
Perm Esmt Utility .066

(194) SAM GITTINS & WIFE

15' Utility Easement for Union Electric Co.
Property Fence (5' Type A)
NOTE: Prop. Fence Approx. 6" Inside R/W

10' Esmt for Ice Fee Trunk Sewer Inc.

2' F.B. Paved Ditch

2 Sty. Stucco Bldg.

Stucco Garage

Stucco Bldg

MHO

Interception

Levee

Sod V Ditch, 1104'

℄ I-244

54°50'05"W

Std. 80.18
46-1EE
(6'x2')

8'x10' RCP

L.C. Head Std. 55.40

Paved V Ditch

Sod V Ditch 200'

986'

Sod V Ditch

2' F.B. Paved Ditch

U.Dr.

OUTER ROADWAY
22' A.C. Surf. - 34" Rolled

Guardrail 537.5'

400'
Sod V Ditch

450'
Sod V Ditch

SENSIA LANE SUBD.

SENCO REALTY CO (191A)

TOTAL R/W MARKERS = 5			
CLASS A UNDERDRAINS			
Sta.	Side	Length	No. of Markers
440+90 O.R. Rt.		40'	0
450+00 O.R. Rt.		44'	
TOTALS		84'	

P.I. 454+72.5 O.R.
Δ 12°00'
D 6°00'
T 142.71
L 283.3
R 955.0
P.C. 453+29.8
P.T. 456+13.1
S.E. 0.08 ft./ft.
W. 2'
L.S. 200'

PLAN
SURVEYED
PLOTTED
LINES CHECKED
GRADES CHECKED
R.W. OR MAY CHECKED
NOTE BOOK No.
Dr. 52-23
X-339

DATE	BY
2-7-56	G. Wood
2-7-56	W.R. Richmond

PROFILE
PLOTTED 2-7-56
GRADES CHECKED
R.W. OR MAY CHECKED
STRUCTURE NOTATIONS CHKD.
NOTE BOOK No.

DATE	BY
2-7-56	Hood & Hood

+0.40%

640.1 640.1

650 640 630 620

680 670 660 650 640

440 1 2 3 4 445 6 7 8 9 450 1 2 3 4 455

B.M. "30A" Elev. 664.80. Spike in N. side 6" Sycamore 190' Rt. Sta. 451+28

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

583

FINAL PLANS

STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
5 MO.	I-244-4(25)	24	
.6	St. Louis	I-244	

Union Elec. Co. 15' Utility Easement — Property Fence (5' Type A)

H.C. Williams & Wife

Charles C. Drace, Jr. & Wife
Ac. Taken 1.208
Ac. Rem. 9.011
Temp. Esmt. 0.046 Ac.
(197)

424+20 60'

455+40 238'

455+78

461+00 210'

468+70 20.0' E 34"x12" CMP

Sod 'V' Ditch 87'

Sod 'V' Ditch 230'

Outer Roadway — 20' Bit. Surface 28' Roadbed

Guardrail

U.Dr.

30.6 210' 25° 195' +82+20.26 34"x12" CMP

130' Sod V ditch

Guardrail 121'

P.I. 460+21.6 O.R. Lt. (160' Lt. 460+210 I-244)
Δ 12°00'
D 5°00'
T 75.3'
L 150'
P.C. 459+46.3
P.T. 460+96.3
R 1146.22'
S.E. 0.087 Ft.
W 4'
Ls 140'

SW¼ NW¼ Sec. 22

NW¼ SW¼ Sec. 22

455 460 465 470

Pc 423+96

Sod V Ditch 120'

Paved V 10' Bk. & Ah.

10' Paved V. Ditch Down 8.5' in 100'

℄ Clayton Rd.

Sod V Ditch 105'

Paved 'V' ditch

S4°50'05"W

℄ I-244

Paved V 10' Bk. & Ah.

Sod V Ditch 70'

Sod V Ditch 500'

457+99.38 ℄ Survey
421+06.78 ℄ Clayton Rd.

PT 465+99.9 O.R. Rt. (150' Rt. 466+00 I-244)
Δ 1°25'
D 0°30'
T 141.6'
L 283.3'
R 11460.00'
P.C. 464+55.3
P.T. 467+41.8

Paved 'V' Ditch

987.5' Guardrail

End Guardrail 463+95

420

Guardrail 40' Paved 'V' Dit. Down 8.5' in 35'

Property Fence (5' Type A) 2950'

Property Fence (5' Type A)

457+99.38
60-86-86-66 Cont. Comp. I-Bm. Span
Sk. 39°35' LA. 56' Rdwy.
Br. No. A 1054

160' Sod V Ditch

Outer Roadway — 22' A.C. Surface 38' Roadbed

Sod 'V' Ditch 820'

U.Dr.

Sod 'V' Ditch

+44.70 247.35

461+50 220

466+60 60'

466+43.5 32' 12" CMP

+50 195'

STATE OF MISSOURI (201)
FORMERLY OF
JOHN F. SCHIEBLE

TOTAL R/W MARKERS = 12'
CLASS - A UNDERDRAINS

Sta.	Side: Rt. & Lt.	Length	No. of Markers
462+81 O.R. Lt.		136'	2
467+90 O.R. Rt.		42	1
468+40 O.R. Lt.		32	1
Totals		210'	4

PLAN
SURVEYED
BOOK
NOTE BOOK
NO. 4-140
Pgs. 64-69
Pgs. 82-88, 90-92, 149-150
DATE
2-26
2-27
BY
G. Hetzel
M.E. McDonough
ALIGNMENT CHECKED
R.C. OF WAY CHECKED

PROFILE
SURVEYED
BOOK
NOTE BOOK
NO.
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NO. & THE CHKD.
DATE
2-26-66
BY
David Esco

+0.40%

-0.42%

680 670 660 650 640

455 6 7 8 9 460 1 2 3 4 465 6 7 8 9 470

PLATE 1—PLAN-PROFILE U. S. R. & R. E. STANDARD
U. S. PLY. PRINT PAPER CO.—CHICAGO

FINAL PLANS

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FINAL PLANS

		FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.
5	MO. I-244-4(25)			25
DIST. NO.				
6	ST. LOUIS	I-244		

P.I. 413+63.88 (Exist. Curve)
Δ 34°14'20"
D 6°00'
R 954.93'
T 294.33'
L 570.65'
E 955.36'
SE 0.057 Ft.

Inside Taper Clayton Rd.
P.I. 414+31.4
Δ 19°13'
D 9°33'
T 111.4'
L 220.5'

PC Taper 413+20.0

SEC. 21 / SEC. 22 / SEC. LINE 189.08

PAUL A. SCHULZE, JR. (191B)
Ac. Taken .127
Ac. Rem 39.873

SENCO REALTY (191A)

P.I. 458+82.0
Δ 41°35'
R 60'
T 22.78'
L 43.56'
PC 456+59.1
PT 459+02.7
S.E. 0

458+00

Sod V-Ditch

457+99.38 I-244 = 421+06.78 Clayton Rd.

PT Taper 415+40.47

P.I. 415+77 Conc. Mon.

PT 416+90.21

+62.7 10"x8" CMP~Bit. C.

418+33.0 ~ 459+98.44 N 55°10'05" E

459+65.8 ℄ CLAYTON Rd.

E. COLONNA & M. ENGEL (192)
Ac. Tk. .046 Ac. Rem. 1.954
Ac. Tm. 1.746 Pr. It.

189.08 MUELLER LANE

Outside Taper Clayton Rd.
P.I. 415+32.0
Δ 19°13'
D 4°32'
R 1262.0'
L 420.0'

+20 Fence 34"x12" CMP Sk. 211A

STATE OF MISSOURI
FORMERLY OF
L. H. KOEWING (196)

STATE OF MISSOURI
FORMERLY OF DESMOND LEE, JR.

℄ I-244

Sod V-Ditch

P.I. 461+11.7
Δ 18°10'
R 320'
T 51.2'
L 101.4'
PC 460+79.7
PT 461+43.1
S.E. 0

Guardrail

P.I. 424+35.7
Δ 6°30'
D 7°30'
T 95.0'
L 189.7'
R 1637.1' Ac.
SE 0.037 Ft.

Proper fly fence 25' Rt. Easem't. for Utility Elec.

1 Sty. Br.

P.I. 424+35.74 (Exist. Curve)
Δ 6°30'
D 2°00'
T 162.67
L 325.00
R 2864.93' Chord

SAM GITTINS & WIFE (194)
Ac. Taken .341
Ac. Rem 1.952
Ac. Tk. West .073
Tk. South .268
Rm. Es. mf. Utility .167

CLIFFORD F. McCLURE & WIFE (194A)
Ac. Taken .082
Ac. Rem. 1.13

Sod V-Ditch

423+53.3 ~ 456+31.80 O.R. Lt.

WALTER W. PERSHALL & WIFE (196B)
Ac. Taken 0.040
Ac. Dam

HARRY C. WILLIAMS & WIFE (196A)

HENRY M. HELLERUD & WIFE (196C)
Ac. Taken 0.052
Ac. Rem. 0.948

E. D. DORSEY & WIFE (196D)
Ac. Taken 0.052
Ac. Rem 0.948

TOTAL R/W MARKERS = 13			
CLASS A UNDERDRAINS			
Sta.	Side	Length	No. of Markers
417+06 Clayton Rd.	Lt.	60'	
TOTALS		60'	

PLAN
SURVEYED
NOTE BOOK
NO.
ALIGNMENT CHECKED
FT. OF MAT CHECKED

PROFILE
SURVEYED
NOTE BOOK
NO.
GRADES CHECKED
BY
STRUCTURE NO. & TYPE CH'KD.
DATE

150' V.C.
M.O. 0.28'
K 100'

+0.20%

+1.7%

400' V.C.
M.O. 0.70'
SSD 693'
K 286'

+0.30%

250' V.C.
M.O. 0.68'
K 115'

B.M. "J7a" Elev. 679.07 Spike in N.W. Root 10" Elm 55' Rt. Sta. 428+60 (Clayton Rd.)

CLAYTON ROAD

670 / 660 / 650 / 680

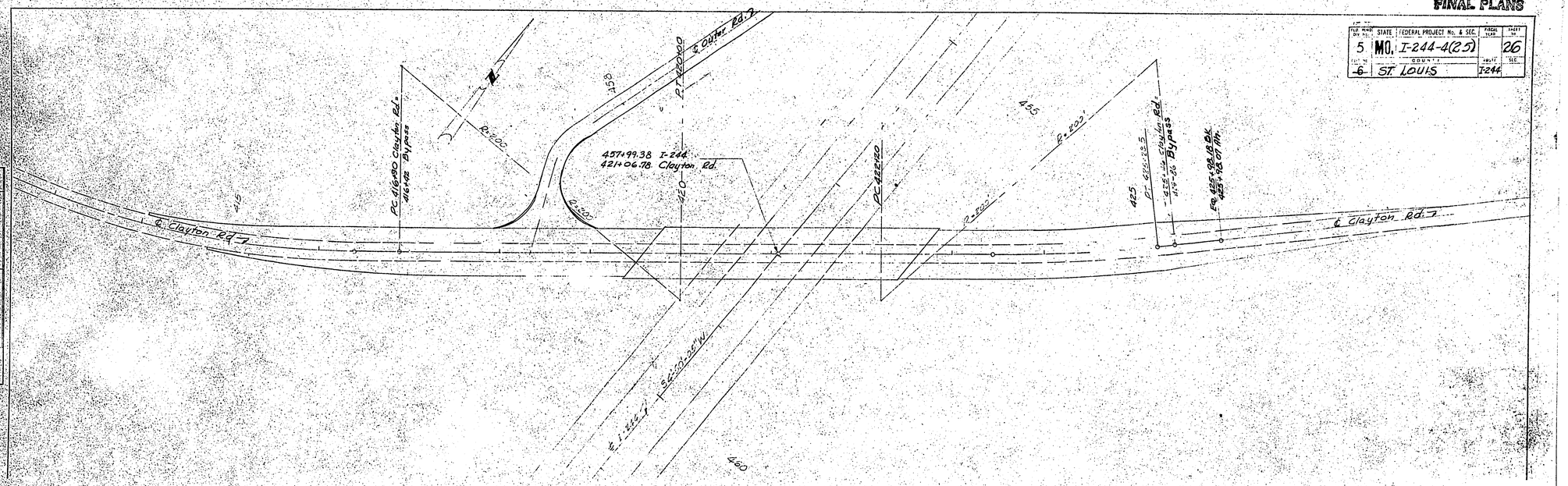
3 4 415 6 7 8 9 420 1 2 3 4 425 6 7 8 9

PLATE I—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

FINAL PLANS

FILE NUMBER DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		26
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST LOUIS		I-244	



PLAN
NOTE BOOK NO.
DRAWN
TRACED
CHECKED
ALIGNMENT CHECKED
BY OF WAY CHECKED

PROFILE
NOTE BOOK NO.
DESIGNED
PLOTTED
DRAWN
CHECKED
ALIGNMENT CHECKED
STRUCTURE NOTATIONS CHKD.
BY
DATE

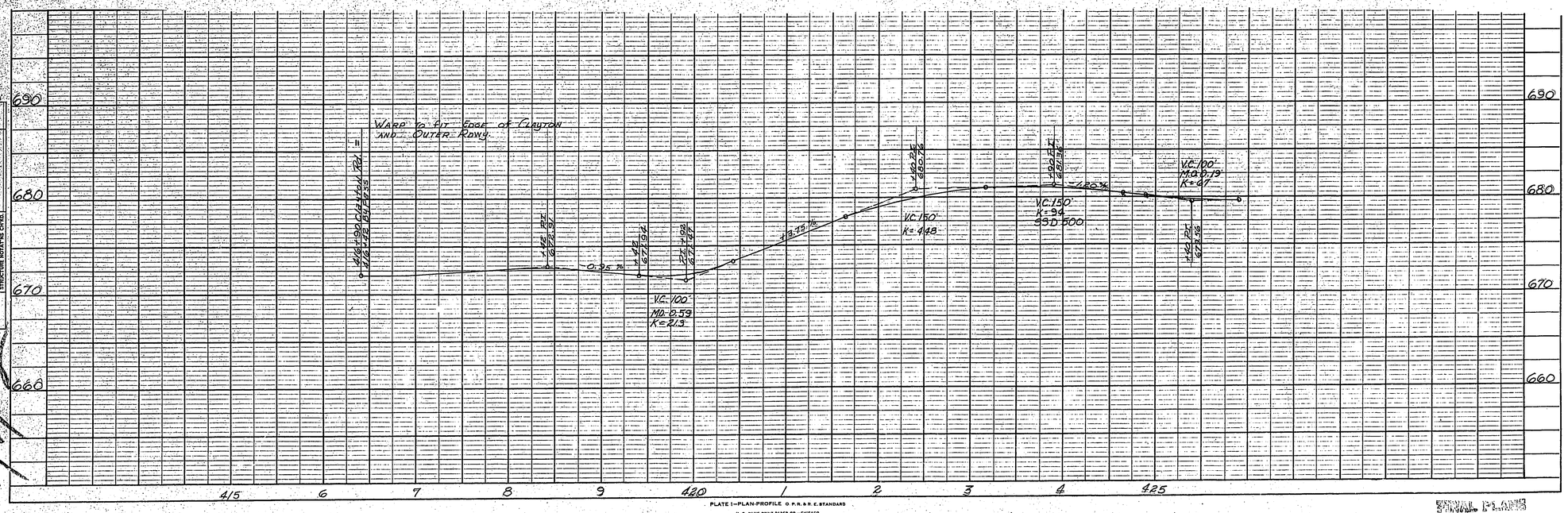


PLATE I—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

583

FINAL PLANS

DIST.	COUNTY	ROUTE	SECT.	PROJECT NO.	SHEET NO.	TOTAL SHTS.
5	MO.	I-244-4(25)			33	
6	ST. LOUIS				I-244	

T45N — R5E

FRED HOEHNE
Ac. Taken 5.351
Ac. Rem. 11.774

SW4 SW4 SEC. 27

RAMP 1
Pl. 8+32.02
Δ 13°52'
D 4°00'
T 174.22
L 346.67
E 10.56
R 1432.69
PC 6+57.80
PT. 10+04.47

RAMP 2
Pl. 4+66.41
Δ 9°22' R
D 4°00'
T 117.37
L 234.17
E 4.80
R 1432.6'
PC 3+49.0
PT. 5+83.2

T45 & 44N R5E
SEC. 27, 28 &
SEC. 33, 34

Pl. 8+32.02 Ramp 1
66' Lt. of 539+56.03 ℄ Surv.

PT. 10+04.5
10.66' Lt. 537+61.01

℄ I-244

Sta. 531+00 to Sta. 536+00
Sod Median (39' Wide)

S5°12'10"E

Pl. 4+66.41 Ramp 2
71.36' Rt. 539+72.60 ℄ Surv.

PC 3+49.0

Sta. 540+25
Energy Dissipator
Std. S.3.32

Pl. 5+05.6 O.R.
Δ 11°30' Rt.
D 4°00'
T 144.3
L 287.5

Sta. 543+21.22 End Proj. I-244-4(25)
Fed. Improv. Begins at a point approx. 754.6' E. of N.W. corner Sec. 34, T44N, R5E

CITY OF DES PERES

CITY LIMITS

Sec. 34

Sec. 3

Tie to Exist. Pavt. 2

Meet Exist. Pavt.

RAMP 1

RAMP 2

AV. Dr.

U. Dr.

OUTER ROADWAY
22' A.C. Surf. ~ 38' Rdwy.

HENRY HOEHNE, JR.
Ac. Taken 8.608
Ac. Rem. 14.963
Perm. Esmt. 0.060

6' F.B. Sod Ditch

4' F.B. Sod Ditch

2' F.B. Paved Ditch

Paved V Ditch

Sod V Ditch

Guardrail

125' Guardrail

Spec. 6' F.B. Sod

62-IEE

64-IE

Sta. 531+00 (S-18) 2
Std. 80.48

Sta. 543+00 (S-18) 2
Std. 80.48

Sta. 539+28 (S-18) 2
Std. 80.48

Total R/W Markers ~ 6"
Class A Underdrain

Station	Side	Length	No. of Markers
530+35 O.R.Pl.		93'	
538+76 O.R.Pl.		40'	1
541+00 O.R.Pl.		110'	
6+94 O.R.Pl.		91'	1
Drain Pattern Used on Handhole detail			8 / 9
Totals		240'	

B.M. #44A — Elev. 648.98. Spike in N. Side 5" Peach Tree 86' Rt. Sta. 534+00

+1.10%

6310

6005

602.3

5976

PLATE 1—PLAN-PROFILE O.R.R.&R.E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

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STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	I-244-4(25)	34

DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	I-244	

PROFILE
PLOTTED
NOTE BOOK
DRAWN BY
CHECKED
R. M. J. NOTE BOOK
SPECIFICATIONS, DATED

SCALE
1" = 100'
1" = 10'

660 650 640 630 620 610 600

+1.10%

I-244
1" = 50' Horiz.
1" = 10' Vert.

500 1 2 3 4 535 6 7 8 9 540 1 2 3 4 545

Ramp 1
Route I-244 & Route 100
1" = 100' Horiz.
1" = 10' Vert.

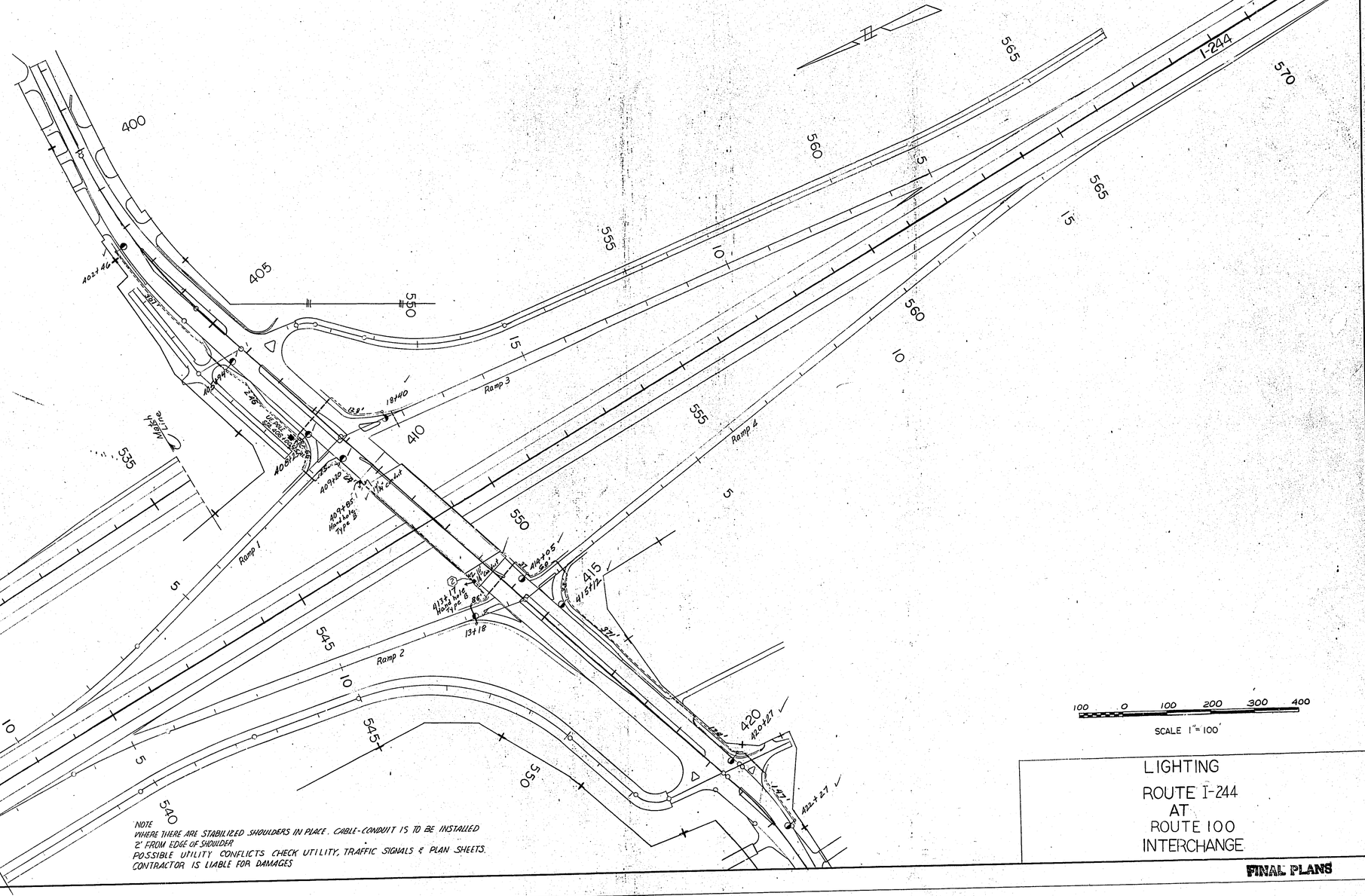
Ramp 2
Route I-244 & Route 100
1" = 100' Horiz.
1" = 10' Vert.

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	35
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST LOUIS	I-244	

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED
BY	

ORIGINAL SURVEY	DATE
SURVEYED	7-63
PLOTTED	
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED
BY	B. Chandler



NOTE
WHERE THERE ARE STABILIZED SHOULDERS IN PLACE, CABLE-CONDUIT IS TO BE INSTALLED 2' FROM EDGE OF SHOULDER
POSSIBLE UTILITY CONFLICTS CHECK UTILITY, TRAFFIC SIGNALS & PLAN SHEETS.
CONTRACTOR IS LIABLE FOR DAMAGES

100 0 100 200 300 400
SCALE 1"= 100'

LIGHTING
ROUTE I-244
AT
ROUTE 100
INTERCHANGE

FINAL PLANS

51

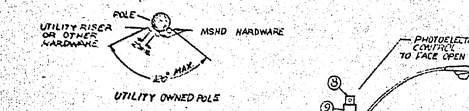
583

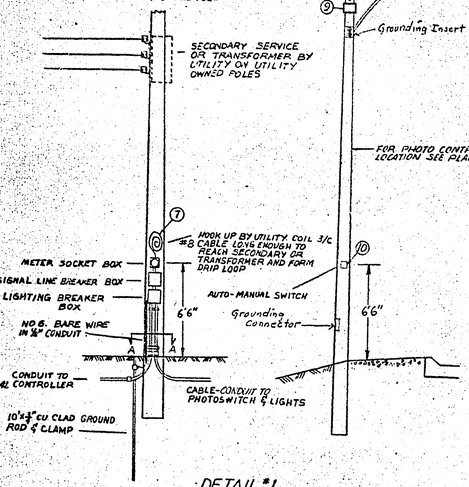
FED. ROAD SYS. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	36
DIST. No.	COUNTY	ROUTE	SEC.
6	St. LOUIS	I-244	

FINAL PLANS

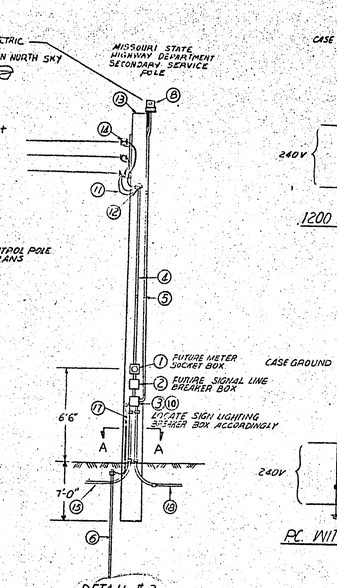
36

SECTION A-A

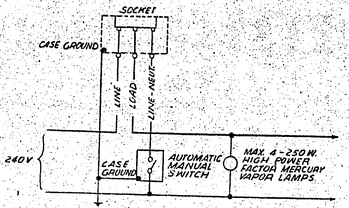




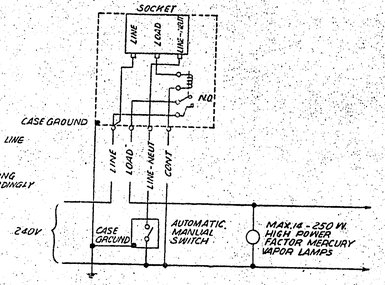
DETAIL #1



DETAIL #2

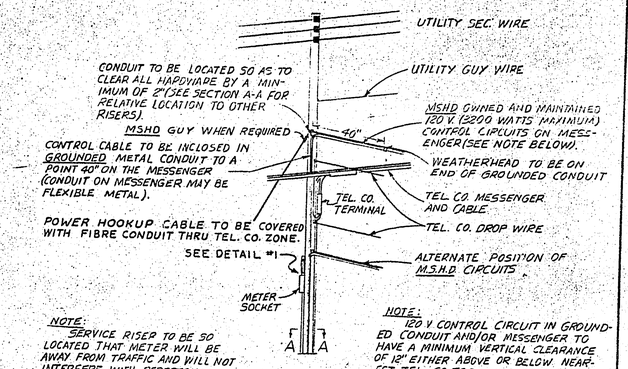


1200 WATT PHOTO CONTROL BASE CONNECTION



P.C. WITH 30/60 AMP LOAD RELAY BASE CONNECTION
3600/7200 WATT

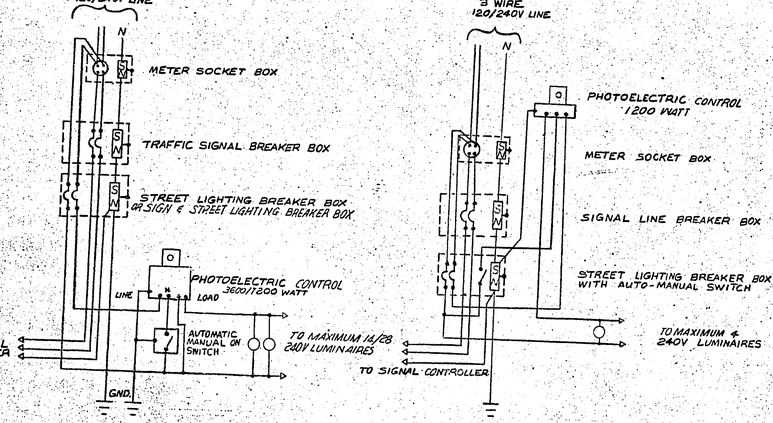
FINAL PLANS



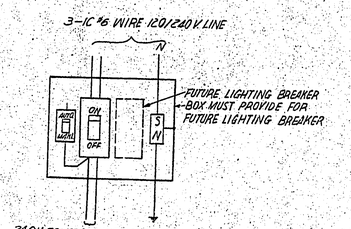
NOTE:
SERVICE RISER TO BE SO LOCATED THAT METER WILL BE AWAY FROM TRAFFIC AND WILL NOT INTERFERE WITH PEDESTRIANS. M.S.H.D. CONTROL BOX IF MOUNTED ON UTILITY POLE, TO BE DIRECTLY UNDER METER.

NOTE:
120 V. CONTROL CIRCUIT IN GROUNDED CONDUIT AND/OR MESSENGER TO HAVE A MINIMUM VERTICAL CLEARANCE OF 12" EITHER ABOVE OR BELOW NEAREST TEL. CO. TERMINAL, DROP WIRE, CABLE OR MESSENGER; IT SHALL ALSO BE A MINIMUM OF 6" BELOW OR ABOVE UTILITY CO. GUY WIRE AND 24" BELOW UTILITY CO. SEC. WIRES. CROSSING IN THE OPEN SPAN SHALL HAVE A 30" MINIMUM VERTICAL CLEARANCE FROM UTILITY CIRCUITS.

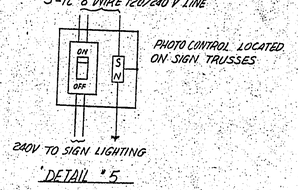
SPAN WIRE
UTILITY DETAIL #3



NOTES:
1. METER AND BREAKER BOXES SHALL NOT BE INSTALLED ON STREET OR WALK SIDE OF POLE.
2. PLACEMENT OF ALL ITEMS ON SERVICE POLES IS TO BE APPROVED BY UTILITY CO. PRIOR TO INSTALLATION.
3. ALL WORK SHALL MEET NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRICAL SAFETY CODE STANDARDS WHERE APPLICABLE.
4. WHERE SIGNAL OR STREET LIGHT POWER ONLY IS NEEDED, DELETE ITEMS THAT ARE NOT USED.



SIGN LIGHTING BREAKER BOX
DETAIL #4



DETAIL #5

LIST OF MATERIAL

ITEM	DESCRIPTION
1	METER SOCKET BOX
2	SIGNAL LINE BREAKER BOX (E Frame Breaker, 15 to 50 Amp, 240 V.)
3	LIGHTING BREAKER BOX (E Frame Breaker, 15 to 50 Amp, 240 V.)
4	CONDUIT, AS REQUIRED
5	CONDUIT STRAPS
6	GROUND ROD
7	3-CONDUCTOR CABLE
8	PHOTOELECTRIC CONTROL & MOUNTING HARDWARE (240 V.)
9	LOAD RELAY
10	"MANUAL-AUTO" SELECTOR SWITCH (250V. 5 Amp.)
11	POWER CABLE
12	SERVICE HEAD
13	30' REGULATOR POLE
14	SECONDARY RACK
15	CABLE-CONDUIT TO LIGHTS
16	
17	NO6 SINGLE CONDUCTOR, BARE COPPER WIRE IN CONDUIT
18	CONDUIT TO SIGNALS

SECONDARY SERVICE POLE
120/240 VOLT A.C.
LIGHTING AND SIGNALS

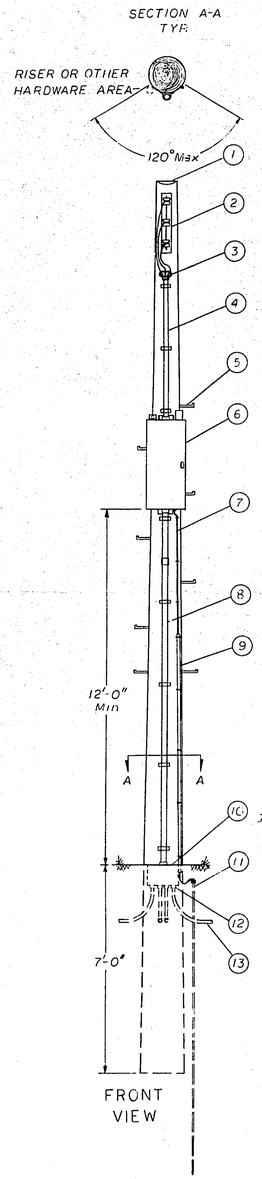
FINAL PLANS

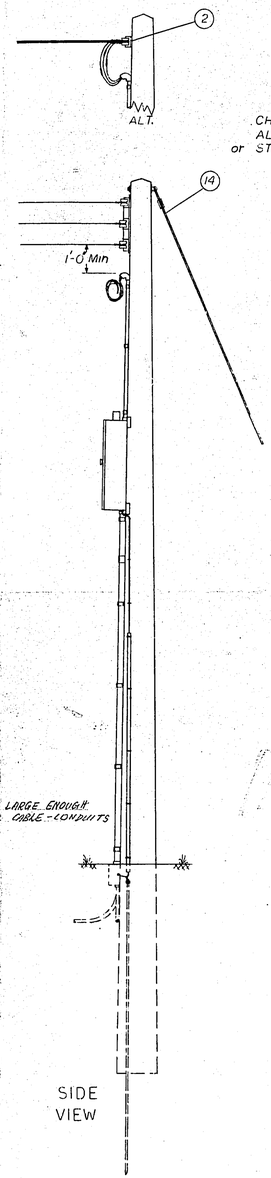
583

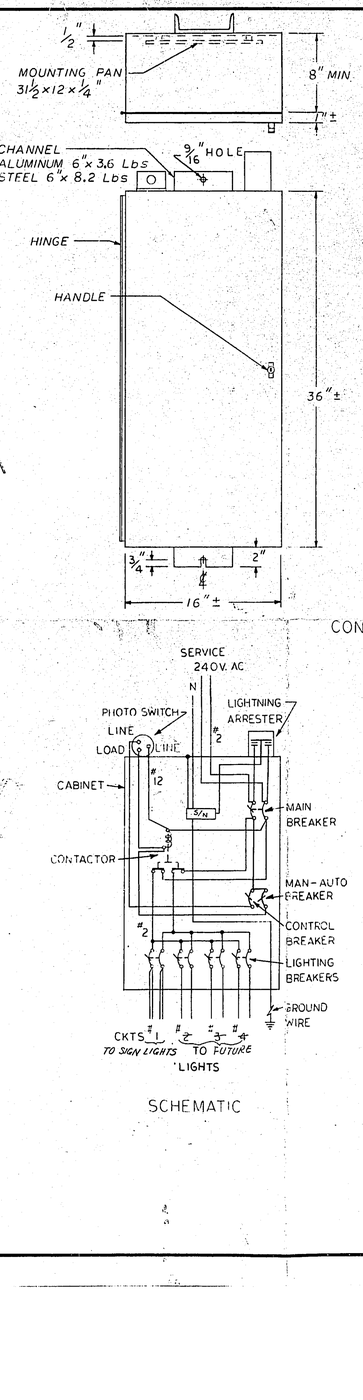
12 TO 1

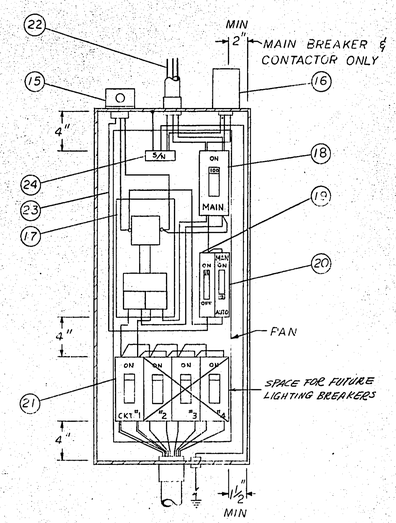
FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-244-4(25)274		36A
DIST. No.	COUNTY		ROUTE	SEC.
6	ST LOUIS		I-244	









LIST OF MATERIAL

ITEM	DESCRIPTION
1	CONTROL POLE, CLASS IV, 30' MIN.
2	SECONDARY RACK OR CLEVIS
3	SERVICE HEAD
4	METAL CONDUIT 1 1/4" MIN.
5	POLE STEPS
6	CONTROL CABINET, WATERTIGHT NEMA 3R-4-5
7	GROUND WIRE #4 AWG MIN.
8	METAL CONDUIT 2" MIN.
9	MOULDING, GROUND WIRE 8'
10	JUNCTION BOX, WATERTIGHT NEMA 3R-4-5
11	GROUND ROD, 3/4" x 10' MIN.
12	CONNECTOR, PLASTIC CONDUIT, WATERTIGHT
13	CABLE-CONDUIT, TO LIGHTS
14	GUY LINE (A/R)
15	PHOTOELECTRIC SWITCH & SOCKET
16	LIGHTNING ARRESTER, VALVE TYPE, 2 POLE 600 VOLT
17	LIGHTING CONTACTOR, 2 POLE 100 AMP 480 VOLT, COIL 240 VOLT
18	MAIN BREAKER, E FRAME, 2 POLE 100 AMP 240 VOLT
19	CONTROL BREAKER, E FRAME, 15 AMP 240 VOLT
20	MANUAL-AUTO SWITCH; E FRAME BREAKER, 15 AMP 240 VOLT
21	LIGHTING CIRCUIT BREAKER, E FRAME, 2 POLE 240 VOLT
22	SINGLE CONDUCTOR CABLE, #2 AWG 600 VOLT (POWER)
23	SINGLE CONDUCTOR CABLE, #12 AWG 600 VOLT (CONTROL)
24	INSULATED GROUNDABLE NEUTRAL, 100 AMP

NOTES

1. ALL WORK & ITEMS SHALL MEET NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, EDISON ELECTRICAL INSTITUTE AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION STANDARDS WHERE APPLICABLE.
2. PLACEMENT OF, AND ALL ITEMS ON CONTROL POLES ARE TO BE APPROVED BY UTILITY COMPANY PRIOR TO INSTALLATION.
3. CONTROL CABINET SHALL BE LOCATED AWAY FROM TRAFFIC AND SO THE PHOTO CONTROL WILL FACE AN OPEN NORTHERN SKY. CONTROL CABINET SHALL BE MOUNTED 15' HIGH IF LOCATION IS REQUIRED ON TRAFFIC SIDE OF POLE.
4. SEE THE PLANS FOR NUMBER & AMPERAGE OF LIGHTING CIRCUIT BREAKERS. ALL BREAKERS TO BE PLUG-IN TYPE.
5. SERVICE ENTRANCE CABLES TO BE LEFT COILED AT SERVICE HEAD, WITH ENOUGH LENGTH TO REACH UTILITY COMPANY SECONDARY AND FORM DRIP LOOP.
6. SCHEMATIC DIAGRAM IS TO BE MOUNTED ON INSIDE OF CABINET DOOR
7. SEE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND PLANS FOR DATA ON ITEMS.
8. THE UTILITY COMPANY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
9. CABLE SHALL NOT BE SPLICED IN JUNCTION BOX.

240 VOLT
SECONDARY SERVICE
LIGHTING CONTROL STATION

DELETE DETAILS #2 & #4 OF SHEET #36
THIS SHEET WILL REPLACE DETAILS #2 & #4 OF SHEET #36
AS SHOWN FOR SERVICE POLE STA. 126+85 Rt. 43 Lt, BALLAS RD.

FINAL PLANS

FINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — NOTE BOOK — AREAS CHECKED — NO.

ORIGINAL SURVEY — DATE 6/28/60 — BY E.C.B. — SURVEYED C.A.M. — PLOTTED — TEMPLATE — NOTE BOOK — AREAS CHECKED W.E.S.

45-3

583

FED. RD. DIV. NO.	STATE	FED. PROJ. NO. & SEC	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)274		54B
DIST. NO.	COUNTY	RTE.	SEC.	
6	ST LOUIS	244		

(SHEET 1 OF 2)

TRAFFIC SIGNALS RT. I-244 AND RT. 100

FED. RD. DIV. NO.	STATE	FEDERAL PROJ. NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)274		37
DIST. NO.	COUNTY		ROUTE	SEC.
6	St. Louis		I-244	

BASES AND HANDHOLES

LOCATION APPR.	LOCATION STATION	LOCATION SIDE	NO. POST	NO. HAND HOLE	POSTS AND CONTROLLERS TYPE A- 3	5	6.5	8	10	TYPE B- 5	8	10	C	D	ALT. D	BR. HCH.	CL. B CONC. C.Y.	DETECTORS BASE SIZE	PAVT. REM. S.Y.	DET. BASE C.Y.	TYPE-C ASPH. TONS	HANDHOLE TYPE I	II	III	IV	*4" PIPE	REMARKS
RAMP 3	18+95	℄	3																			1					
RT. 100	414+10	40' L	9																				1			15'	
RT. 100	414+43	℄	10																			1					
	Note:																										
RAMP 3	408+85	Left Island	—	4" Concrete Median Surface —													47.2	S.Y. Concrete									After (3) Installation
TOTALS																						2	1		*15'		

CONTROLLER(S)

NO.	TYPE	ON-OFF SW. CAB.	MINOR PHASE UNIT	PHASE SUB. UNIT	DET. SWITCH UNIT	CALL DET. UNIT				REMARKS
	FI-6									SEE SPEC. PROV.
TOT.	1		*	*	*	*				

POWER SUPPLY

LOCATION APPR.	LOCATION STATION	LOCATION SIDE	ASSY	AMPS	SERVICE POLE	REMARKS
RT 100	408+00	75' R	1	30	UNION ELECTRIC	SEE SHEET #39 FOR DETAILS
TOTALS			1	30		

CONDUIT

FROM	TO	DIST. C.TO.C.	IN TRENCH RIGID STEEL 1¼"	1½"	2"	2½"	3"	3½"	4"	AL. 4"	PUSHED STEEL 4"	REMARKS
(3)	☒	57									61	
(9)	(10)	55									55	
(9)	(3)	517							185	300		QUAN. DOES NOT INCLUDE EXISTING COND. SEE SPECIAL PROV.
									185	300	116	

FROM	TO	DIST. C.TO.C.	IN TRENCH RIGID STEEL 1¼"	1½"	2"	2½"	3"	3½"	4"	AL. 4"	PUSHED	REMARKS
TOTALS												

CONDUCTOR CABLE

FROM	TO	DIST. C.TO.C.	POWER lc #4	lc #6	lc #8	CONTROL 2c #12	3c #12	4c #12	5c #12	6c #12	7c #12	U.S. DET. 2c #18	LOOP DET. lc #14	REMARKS
■	☒	195			486									3-lc #8
☒	13	744					795					8		▽
☒	14	764									1694			(15)(16)
☒	15	581									614			(12)
☒	16	682				1450					725			(13)(17)(21)
☒	17	857					897					8		▽
☒	18	648				694					2134			(15)(19)(20)(21)
☒	19	741					798					8		▽
☒	1	238					274					8		▽
☒	2	63				200					100			(2)(6)(21)
☒	3	109									145			(3)
☒	14	292					660					160		▽
☒	5	106					138					8		▽
☒	6	126									384			(1)(5)
☒	7	28				65					245			(7)(8)(9)(24)
☒	10	113					125					8		▽
SUB-TOTALS			486	2409	3687						6041	208		
EXTRA FOR CUTTING, ETC.			24	113	184						296	12		
TOTALS			510	2522	3871						6337	220		

SIGNS (FURNISHED BY COMMISSION)

LOCATION POST NO.	LOCATION FACE NO.	SIZE AND TYPE 30"X36" R9- SL	SR	SS	GL	GR	42"X48" SRA	SSA	GLA	GRA	12X18 2	3	9X12 6	7	24X30 BL	BR
7	(7)													1		
18	(18)													1		
2	(2)													1		
16	(13)													1		
TOTALS														4		

R9-6	PUSH BUTTON FOR GREEN LIGHT
R9-7	PUSH BUTTON FOR WALK SIGNAL
R9-2	CROSS ON GREEN LIGHT ONLY
R9-3	CROSS ON WALK SIGNAL ONLY
R9-8L	LEFT TURN SIGNAL
R9-8R	RIGHT TURN SIGNAL
R3-5L(a)	LEFT ARROW (SYMBOL) - ONLY
R3-5R(a)	RIGHT ARROW (SYMBOL) - ONLY
R3-6L(a)	STRAIGHT - LEFT ARROW (SYMBOL)
R3-6R(a)	STRAIGHT - RIGHT ARROW (SYMBOL)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

DETECTORS

NO. POST	NO. DET.	SPAN WIRE HANGER	PHASE ASSOC.	PHASE SWITCH	FIELD OF ACT.	LEAD LGTH. REQ'D	PRESSURE-SENSITIVE NON DIRECT. 6'	8'	DIRECT. 6'	8'	DIR.-S.S. 6'	8'	MAGNETIC NON COMP.	COMP.	PUSH BUTTON	RADAR A	B	C	INFRA-RED 1	2	ULTRA-SONIC TYPE S- S	P	PC	M	MC	H	TYPE H- P	PC	M	MC	INDUCTION LOOP TYPE P	TYPE M	REMARKS
1	V		B_1		20																		1										
5	2		A_1		10																		1										
10	4		C_1		10																		1										
4	4		A_1-B_1		18																		1										
4	5		A_2-B_2		18																		1										
17	6		B_2		20																		1										
13	7		A_2		10																		1										
19	8		C_2		10																		1										
TOTALS *																						8										

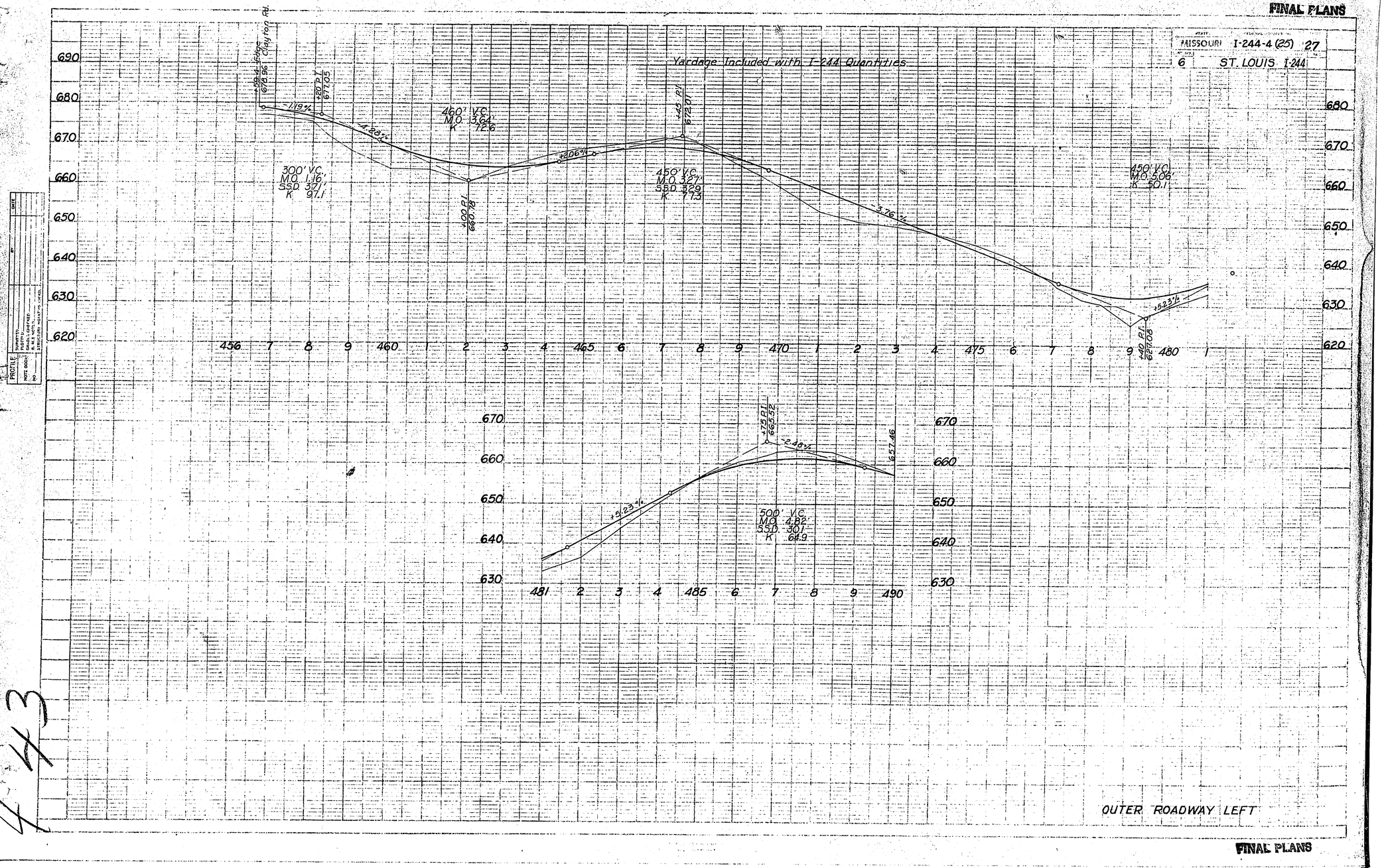
SP-38

583

FINAL PLANS

STATE: MISSOURI I-244-4 (25) 27
6 ST. LOUIS I-244

Yardage Included with I-244 Quantities



PROFILE
SURVEYED
DRAWN
TRACED
CHECKED
NOTE BOOK
PD
DATE
BY
STRUCTURE HEIGHT

OUTER ROADWAY LEFT

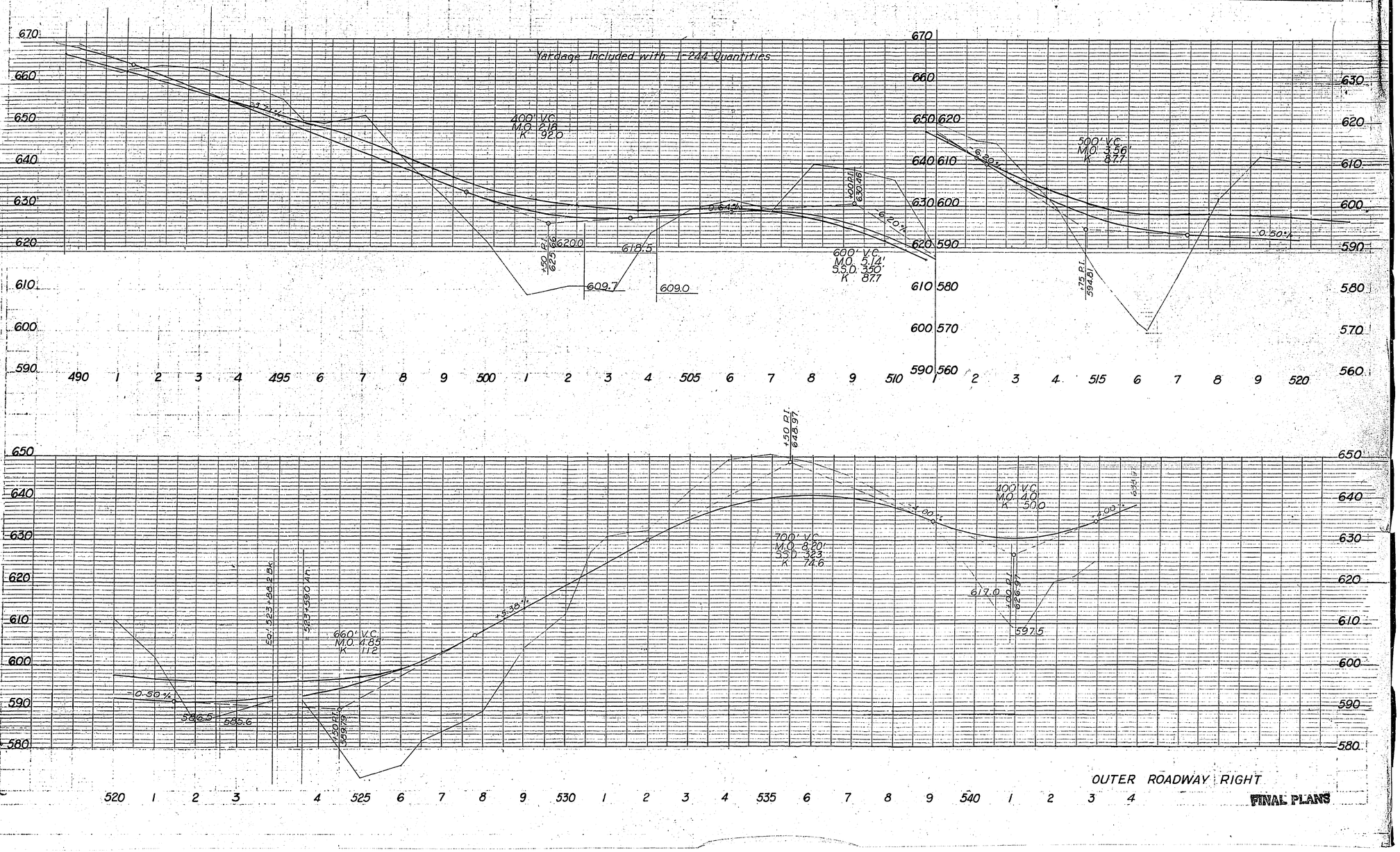
FINAL PLANS

413

FINAL PLANS

5	MO.	I-244-4(25)	28
6	ST. LOUIS	I-244	

Yardage Included with I-244 Quantities



OUTER ROADWAY RIGHT

FINAL PLANS

FINAL PLANS

5	MO. I-244-4(25)	29
6	ST. LOUIS I-244	

T45N R5E

CLYDE E. MOSLEY (203)
Ac. Taken .701
Ac. Rem. 9.527

NW¼ SW¼ Sec 22

SW¼ SW¼ Sec. 22

Lot 30

CLARK A. FERRELL

40' Dr. Esmt. 2 Perm.

48" RCP L.I.P.

36"CMP

Rock Fill

Fiber Gl. V Ditch

R.O.T. 480+58.50

Sod V Ditch

OUTER ROADWAY
20' Bit. Surf. ~ 28' Rubed

Guardrail

Sod V Ditch

2' F.B. Paved Ditch

Paved V Ditch

Sta 478+95
D.I. Type E E.G. (3x3)
Std 80.44

Sta 475+00
D.I. Type E E.G. (3x3)
Std 80.44

℄ I-244

14 ¼ Sec. Line

10'x24' RCP

398' x 6'x6' Std. 83.20

Sta 482+00
D.I. Type E
(3x3) Std 80.44

Hdwl Std. 83.40C

Property Fence (5' Type A)

4' F.B. Paved Ditch

OUTER ROADWAY
22' A.C. Surf. ~ 38' Rubed

P.I. 477+60.01 O.R.
Δ 2°26'
D 0°30'
T 248.8
L 493.9
R 11460.00

Lot 2

2' F.B. Paved Ditch

10' Earth Mt.

Fiber Gl. V Ditch

Sod V Ditch 514'

Ac. Taken 0.896
Ac. Rem. 2.514

18.5' Guardrail

Sod V Ditch 107'

S 4°50'05"W

TOTAL D/W MARKERS ~ 7

Sta.	Side	Class A Underdrain Length	No. of Markers
475+60 O.R.Rt.	Lt.	58'	1
476+30 O.R.Rt.	Rt.	32'	1
477+65 O.R.Rt.	Lt. & Rt.	132'	2
479+01 O.R.Rt.	Lt. & Rt.	137'	2
480+60 O.R.Rt.	Rt.	44'	1
484+30 O.R.Rt.	Rt.	39'	1
TOTALS		448'	8

B.M. 39A Elev. 633.57. Spike in S. side 18" Elm. 8.5' Rt. Sta. 478+97

-0.42%

6422 643.3

640.9

634.6

PLATE I—PLAN-PROFILE O.P.R.&R.E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

583

FINAL PLANS

5	MO.	I-244-4(25)	30
6	ST. LOUIS	I-244	

T45N R5E

Sec. 22

Lot 26

Lot 16

NELSON L. HOWER & WIFE
Taken .705 Ac.
Rem. .217 Ac.
(211)

DANIEL MUELLER
Ac. Taken 7.699
Ac. Rem. Rt. 6.579
Ac. Rem. Lt. 15.514
(214)

Lake

NW¼ NW¼ Sec 27

SEC. 22

SEC. 27

SECTION LINE

54°50'05" W

℄ I-244

OUTER ROADWAY
22' A.C. Surf ~ 38' Rdbed

Lot 25 20' Bit Surface 28' Rdbed

100' Sod V Ditch

Guardrail 450'

Sod V Ditch 618'

Paved V Ditch 818'

Sod V Ditch 500'

Sod V Ditch 32'

Lot 20

Property Fence (5' TYPE A)

600'

900' Guardrail

Paved V Ditch 420'

Paved V Ditch 401'

Paved V Ditch 267'

Sod V Ditch 204'

2' F.B. Paved Ditch 150'

Paved V Ditch 104'

P.I. 490+80.0 O.R.
Δ 10° 25'
D 0° 45'
T 696.4
L 1389.3
R 7639.31
SE .0

P.I. 498+80.58
Δ 10°00'52" Lt.
D 0°30'
T 1002.89
L 2002.89
R 11,459.37

P.I. 497+73.0

No S.E.

2-F.B. Paved V-Ditch

2-C 572.53.61

1-C 572.53.60

65-1 EE 2'x2' 572.80.98

D.B.

18" RCP

+00 End Prop 120

Sta. 485+72.5 54°12'42"E 451.5'

Sta. 490+20.0 54°12'42"E 235'

Sta. 495+20.0 54°12'42"E 235'

Sta. 498+20 54°12'42"E 235'

Taken 2.059

(213) (214) (215A)

TOTAL R/W MARKERS ~ 8
CLASS A UNDERDRAIN

STATION	SIDE	LENGTH	NO. OF R/W MARKERS
498+30 ARR.	Rt.	44	
	TOTALS	44	1

P.I. 498+00
639.20

V.C. 400'
M.O. 0.49
K 40
SSD 378

B.M. "10A" Elev. 669.91 Spike in S. side PP 391 Pt. Sta. 489+60

B.M. "10B" Elev. 656.08 Spike in E. root 12" Elm. 858' Pt. Sta. 494+79

PROFILE
SURVEYED
PLOTTED
CHECKED
E. & S. NOTED
STRUCTURE OUTLINE OK'D.
NOTE BOOK
NO.

PLAN
SURVEYED
PLOTTED
CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.

DATE	BY
2-56	W. Bussman
2-57	W. B. Bussman
7-57	

650 640 630 620

485 6 7 8 9 490 1 2 3 4 495 6 7 8 9 500

PLATE 1—PLAN-PROFILE O. P. R. & R. C. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

FINAL PLANS

FED. ROAD DIST. No.	STATE	FEDERAL PROJECT No.	SHEET No.	SHEETS
5	MO	I-244-4(25)	31	
DIST.	COUNTY		NO.	
6	St. Louis	I-244		

NW¼ NW¼ Sec 27 — SW¼ NW¼ Sec 27

(219A) Mutual Bank & Trust Co. Ac Rem. 12.68

℄ I-244

Sta. 505+00 to Sta. 515+00 Sod Median (39' Wide)

OUTER ROADWAY 22' A.C. Surf. - 38' Rdbed

S 3°06'55" E — S 5°12'10" E

Oscar A. Hock et al.

Sod V Ditch 305' — Paved V Ditch 146' — Sod V Ditch 785' — Sod V Ditch 457' — Sod V Ditch 404' — Paved V Ditch 293' — Sod V Ditch 182' — Paved V Ditch 268' — Paved V Ditch 342'

Paved Ditch 202' — 4' F.B. & 2' F.B. Paved Ditch — Paved Ditch 118'

Guardrail 175' — Guardrail

Sta. 502+00 Dt. Ca 23° Std. 20.46 — Sta. 504+68 Dt. Ca 33° Std. 20.46 — Sta. 513+00 Dt. Ca 22° Std. 20.46

Sta. 502+92 C.R.R. — Sta. 513+80 C.R.R.

Perm. Dr. Esmt.

Total R/W Markers ~ 16

Class A Underdrain			
Station	Side	Length	No. of Markers
502+92 C.R.R.	Rt. & Lt.	136'	2
513+80 C.R.R.		40'	0
Totals		398'	2

B.M. #41A. Elev. 614.70. Spike in E. side 10" Ok 285' Rt. Sta. 502+21

B.M. #42A. Elev. 583.17. Spike in E. side 6" Elm. 256 Rt. Sta. 514+90

-1.393%

PLATE 1—PLAN-PROFILE O. P. R. R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FINAL PLANS

583

FINAL PLANS

5	MO	I-244-4(25)	32
6	ST. LOUIS	I-244	

T45N R5E

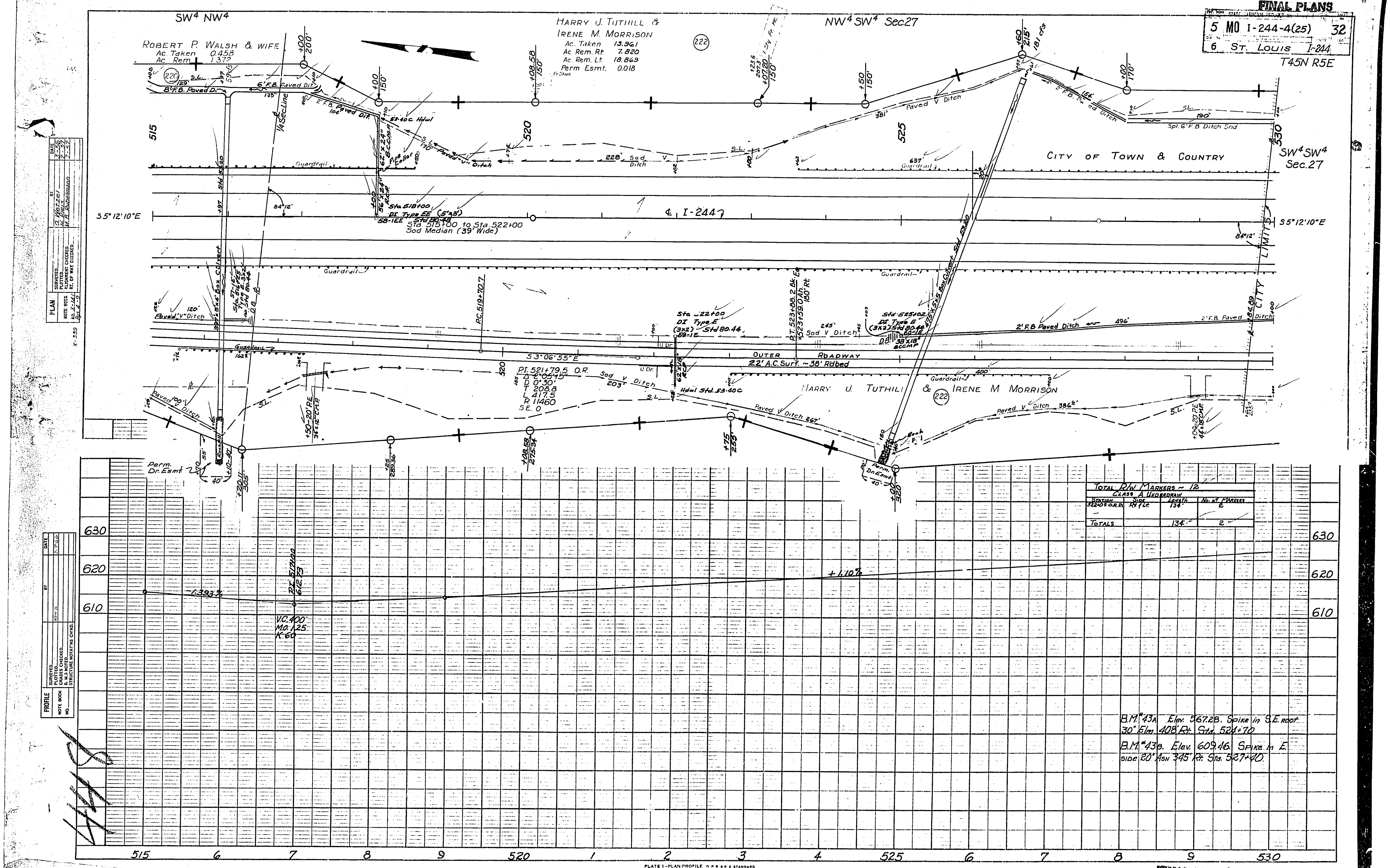


PLATE 1—PLAN-PROFILE O.P.R.A.R.E. STANDARD
U.S. BLUE PRINT PAPER CO. CHICAGO

FINAL PLANS

583

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO	SHEET NO.
5	MO	I-244-4(25) 274	
COUNTY: ST. LOUIS		ROUTE: 244	SEC.

(SHEET 2 OF 2)

TRAFFIC SIGNALS- I-244 AT RT. 100

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	I-244-4(25)274	38
Dist. No. 6	COUNTY: St. Louis	ROUTE: I-244	SEC.

POSTS

Post	Det	Post Top Mount Controller 2'	Controller 4'	Signal (& Side Fire Detec.) 5'	6'	7	8	10	C-1 Signal (Type Z/P)	C-2 Signal Type 24' A	C-2 Signal other Types A	B-Signal Type 18.5/24 E	B-Signal Type 17/25 E	B-Signal other Types E/K	C-3 Sign Type A	C-4 Sign Type A	Steel or Type B Concrete-Mast Arm 16.5' Post 22	Steel or Type B Concrete-Mast Arm other	Type A Conc.-Mast Arm	Span Wire	Sign (Std. 72.07) C-1710 / C-1310 Mast Arm	
1	▽1			1																		
2							1															
4	▽4 ▽8																1†					†2-25' arms on single post
5	▽2			1																		
6												1										
7										1												
10	▽3			1																		
13	▽7			1																		
14													1									
16							1															
17	▽6			1																		
18										1												
19	▽8			1																		
3							1															
15							1															
TOTALS				6			4			2		1	1				1†					

SIGNAL HEADS (* Indicates Pedestrian Type Only)

Indications – Lenses

Post	Face	Down Light	12" R	8" R	12" A	8" A	12" G	8" G	12" S	8" S	12" L	8" L	12" Rt.	8" Rt.	8" min. D.W.	W.
2	2	1		1		1					1					
	6			1		1					1					
3	3			1		1					1					
6	1		1		1				1							
	5		1		1				1							
7	7	1		1		1					1					
	8			1		1			1							
	9			1		1			1							
15	12			1		1					1					
14	15		1		1				1							
	16		1		1				1							
16	13	1		1		1					1					
	17			1		1					1					
13	18	1		1		1					1					
	19			1		1			1							
	20			1		1			1							
TOTALS		4	4	12	4	12			8		8					

Visors, Louvers, Backplates, Brackets

Post	Face	Visors 12" Lens Std. 9½	Visors 12" Lens Tun. 9½	Visors 8" Lens Std. 8"	Visors 8" Lens Tunnel 8"	Tunnel 12"	Tunnel 16"	Louvers 12" Lens A	12" Lens B	8" Lens A	8" Lens B	8" Lens C	8" Lens D	Backplates 12"/8"	3/0	2/1	1/2	1/3	0/3	0/4	Brackets Std. I	Spec. II	Spec. III
2	2		1		2					2											1		
	6		1		2			1		2											1		
3	3	1		2																	1		
6	1	3													1						(1)		
	5	3													1						(1)		
7	7		1		2					2											1		
	8	1		2													1				(1)		
	9	1		2													1				(1)		
15	12	1		2																	1		
14	15	3													1						(1)		
	16	3													1						(1)		
16	13		1		2					2											1		
	17		1		2			1		2											1		
13	18		1		2					2											1		
	19	1		2													1				(1)		
	20	1		2													1				(1)		
TOTALS		18	6	12	12			2		12				X	4		4				16		

Head Types

Post	Face	One-Way 1- (T S B M C)	One-Way 2-* (T S)	One-Way 3- T	3- S	3- B	3- M	3- C	One-Way 4- (T S B M C)	Two-Way 11- (T S B M C)	Two-Way 22-* (T S)	Two-Way 33- T	33- S B M C	Two-Way 34- (T S B M C)	Two-Way 44- (T S B M C)	Three-Way 111- (T S C)	222-* (T S)	333- (T S C)	334- (T S C)	344- (T S C)	444- (T S C)	REMARKS
2	2											1										(1) See Std. Dwg. 71.03 for Bracket Mounting
	6											–										
3	3			1																		
6	1					1																
	5					1																
7	7				1																	
	8					1																
	9					1																
15	12			1																		
14	15					1																
	16					1																
16	13											1										
	17											–										
13	18				1																	
	19					1																
	20					1																
TOTALS				2	2	8						2										

FINAL PLANS

SP - 39

145

583

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	39
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST LOUIS	I-244	

FINAL SURVEY — DRAWN, PLOTTED, TEMPLATE, NOTE BOOK, NO., AREAS CHECKED

ORIGINAL SURVEY — DRAWN BY GEORGE ROBINSON 11-27-56, PLOTTED, TEMPLATE, NOTE BOOK, NO., AREAS CHECKED

Match Line 412+60

Bored through abutment and mounted conduit beneath bridge See sheet #58 for details

RAMP 4

RAMP 3

RAMP 2

RAMP 1

RT. 100

Manhole

New H.H.

Not Used

Island To Be Concreted after ⑨ installation

Existing conduit

New conduit

Bored thru abutment See sht. #58 for details

SIDEWALK

OUTER ROADWAY

I-244

NEXT SIGNAL, 3.6 MILES

STOP SIGN .1 MILE

NEXT SIGNAL 1.1 MILES

Union Electric Pole Sta. 408+00, 75' RT.

See sht. #54 and special provision

TRAFFIC MOVEMENTS 1964 ESTIMATE

RAMP 3 156(AM) 205(PM)

RAMP 4

RT. 100

535(AM)

419(AM) 156(PM)

567(PM)

124(PM)

205(AM)

830(AM)

616(PM)

RAMP 1

RAMP 2 124(PM) 419(PM)

N

SCALE 1"=25'

0 25 50 100

Existing conduit

* Special sign – see detail sheet no. 75

DESIGN SPEED 40 M.P.H.

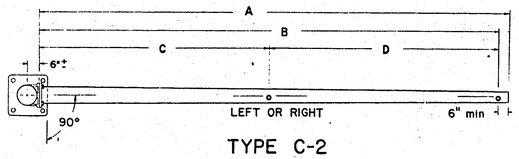
TRAFFIC SIGNAL INSTALLATION
ROUTE I-244 INTERCHANGE
WITH
ROUTE 100
IN
ST. LOUIS COUNTY

583

FINAL PLANS

FED.RD. DIV.NO.	STATE	FED. PROJ. NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		40
DIST.NO.	COUNTY		RTE.	SEC.
6	ST. LOUIS		244	

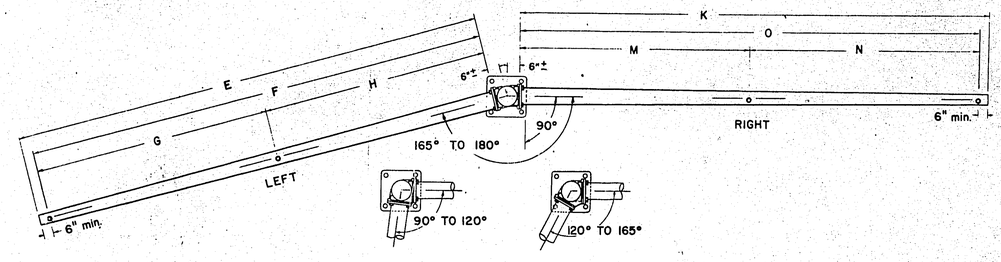
Note.
To determine left or right on Type B or C-2 signal post, viewing position should be from the center of the intersection being controlled and facing the signal involved.



TYPE C-2

TYPE C-3

TYPE C-4



TYPE B

SIGNAL & SIGN POST DATA

☐ POST NO.	STATION NO.	TYPE POST	TYPE C-2 ARM LGTH.	TYPE C-2 SIGNAL SPACING A	B	C	D	TYPE C-2 LEFT	TYPE C-2 RIGHT	TYPE B LEFT ARM LGTH.	LEFT ARM SIGN SPACING E	F	G	H	TYPE B RIGHT ARM LGTH.	RIGHT ARM SIGNAL SPACING K	O	M	N	TYPE C-3 ARM LGTH.	TYPE C-3 SIGN SPACING A	B	C	D	TYPE C-3 LEFT	TYPE C-3 RIGHT	TYPE C-4 ARM LGTH.	TYPE C-4 SIGN SPACING A	B	C	D	TYPE C-4 LEFT	TYPE C-4 RIGHT
6	409+53	B								18'6"	18'				24'	23'6"	11'6"	12'														
7	408-72	C-2	24'	23'6"	11'6"	12'			√																							
14	413+65	B								17'	16'6"				25'	24'6"	13'	11'6"														
18	414+47	C-2	24'	23'6"	11'6"	12'			√																							

TRAFFIC SIGNALS
TUBULAR STEEL POSTS
ONE-TUBE BUTTERFLY TYPE B
ONE-TUBE CANTILEVER TYPE C-2
ONE-TUBE CANTILEVER TYPE C-3
ONE-TUBE CANTILEVER TYPE C-4

DATA SHEET (See Standard 71.03 & 71.06) SP-36

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

FINAL PLANS

583

FINAL PLANS

FED RD DIV NO.	STATE	FED PROJ NO & SEC	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)274		41
DIST NO.	COUNTY		RTE.	SEC.
6	ST. LOUIS		I-244	

LEGEND

- NON-ACTUATED PART. RESTRICTED VEHICULAR MOVEMENT
- ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PARTIALLY RESTRICTED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- Ⓧ - DETECTOR DISCONNECTED
- Ⓘ - DETECTOR SWITCHED (FUNCTION #1)

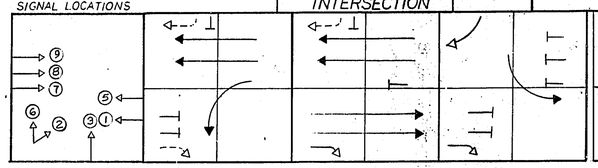
R/W - RIGHT-OF-WAY INTERVAL
Ø - TRAFFIC PHASE
R - RED
A - AMBER
G - CIRCULAR GREEN
S - GREEN STRAIGHT AHEAD ARROW
L - GREEN LEFT ARROW
RT - GREEN RIGHT ARROW

SUGGESTED TIMING

Ø	INITIAL INTERVAL	UNIT EXTENSION	EXTENSION LIMIT	CLEARANCE INTERVAL
A_1	5	3	20	3
B_1	10	4	40	4
C_1	5	3	20	3
A_2	5	3	20	3
B_2	10	4	40	4
C_2	5	3	20	3
ARTERY OFFSETS	8'			
RAMP OFFSETS	10			

TRAFFIC PHASING

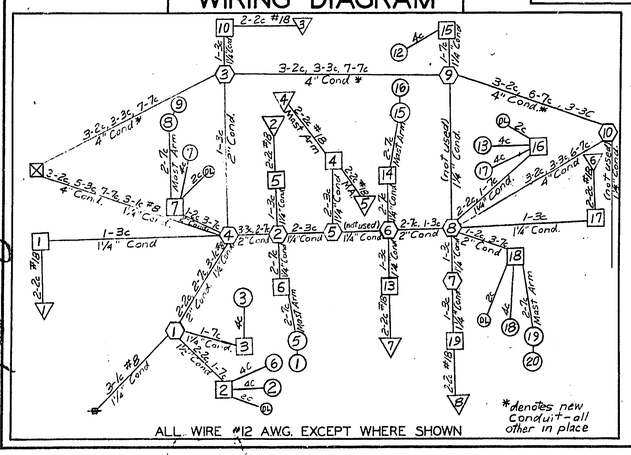
SIGNAL LOCATIONS



COLOR SEQUENCE

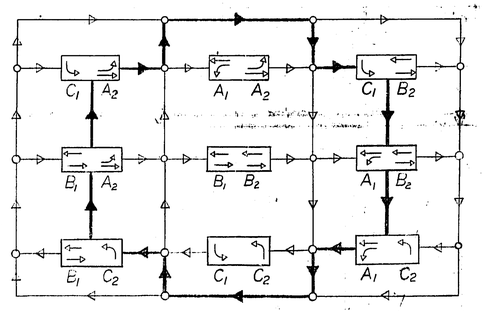
CONT. NO.	FACE NO.	ØA_1 R/W	ØA_1 CLEAR TO B_1	ØA_1 CLEAR TO C_1	ØB_1 R/W	ØB_1 CLEAR TO A_1	ØB_1 CLEAR TO C_1	ØC_1 R/W	ØC_1 CLEAR TO A_1	ØC_1 CLEAR TO B_1	Ø R/W	Ø CLEAR TO	Ø R/W	Ø CLEAR TO	ØA_2 R/W	ØA_2 CLEAR TO B_2	ØA_2 CLEAR TO C_2	ØB_2 R/W	ØB_2 CLEAR TO A_2	ØB_2 CLEAR TO C_2	ØC_2 R/W	ØC_2 CLEAR TO A_2	ØC_2 CLEAR TO B_2	FACE NO.	CONT. NO.
APPROACH																									APPROACH
EAST BOUND RT. 100	②	L	A	A	R	R	R	R	R	R															____ BOUND
	⑦	L	A	A	R	R	R	R	R	R															
	⑧	S	S	A	S	S	A	R	R	R															
	⑨	S	S	A	S	S	A	R	R	R															
WEST BOUND RT 100	①	R	R	R	S	A	A	R	R	R															____ BOUND
	⑤	R	R	R	S	A	A	R	R	R															
____ BOUND															R	R	R	S	A	A	R	R	R	⑮	EAST BOUND RT 100
															R	R	R	S	A	A	R	R	R	⑯	
____ BOUND															L	A	A	R	R	R	R	R	R	⑬	WEST BOUND RT 100
															L	A	A	R	R	R	R	R	R	⑱	
															S	S	A	S	S	A	R	R	R	⑲	
															S	S	A	S	S	A	R	R	R	⑳	
NORTH BOUND RAMP 3	③	R	R	R	R	R	R	L	A	A															SOUTH BOUND RAMP 2
	⑥	R	R	R	R	R	R	L	A	A															
															R	R	R	R	R	R	L	A	A	⑫	____
															R	R	R	R	R	R	L	A	A	⑰	

WIRING DIAGRAM



ALL WIRE #12 AWG. EXCEPT WHERE SHOWN

FLOW DIAGRAM



→ denotes sequence that prevails if constant demand exists on all phases.
→ denotes secondary sequences per right-of-way demand.

CONTROLLER TYPE FI-6	
FLASHING OPERATIONS*	
ALL.	APPROACH FA
	APPROACH FR
	APPROACH F

*EMERGENCY USE ONLY

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
I-244 RAMPS
WITH
RT. 100

SP-37

FINAL PLANS

583

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	43
DIST. NO.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	

FINAL SURVEY — SURVEYED BY, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., DATE

ORIGINAL SURVEY — SURVEYED BY, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., DATE

WEST 40 NORTH 61 Wentzville (a) — SOUTH 244 Kirkwood EXIT 1/3 MILE (b) — NORTH 244 Bridgeton (c)

JJ Ballas Rd EXIT 1/4 MILE

NORTH 244 Bridgeton (a) — WEST 40 NORTH 61 Wentzville EXIT 1/3 MILE (b) — EAST 40 SOUTH 61 St Louis (c)

CITY LIMIT CREVE COEUR

WEST 40 NORTH 61 Wentzville

EXIT 50 MPH — EXIT 30 MPH — EXIT 40 MPH

YIELD — MERGING TRAFFIC — STOP — KEEP OFF MEDIAN

Begin Project 395+00 — CONWAY ROAD — CONWAY ROAD

CITY LIMIT Town & Country

SOUTH 244 Kirkwood — EAST 40 SOUTH 61 St Louis EXIT 1/3 MILE — WEST 40 NORTH 61 Wentzville (a) (b) (c)

EAST 40 SOUTH 61 St Louis — NORTH 244 Bridgeton EXIT 1/3 MILE — SOUTH 244 Kirkwood (a) (b) (c)

MATCH LINE — US 40 61

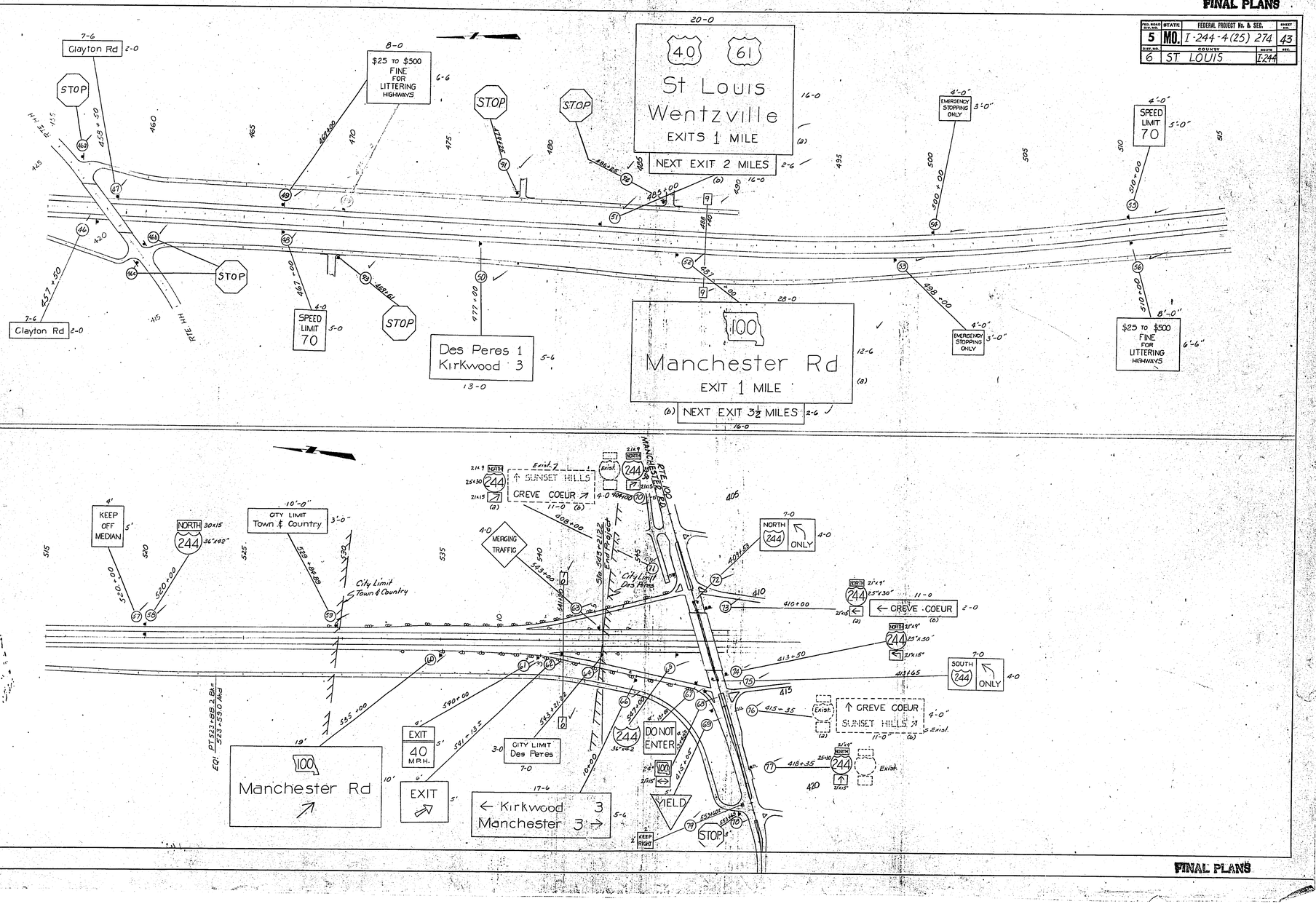
FINAL PLANS

583

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25) 274	43
DIST. NO.	COUNTY	POINTS	SEC.
6	ST. LOUIS	I-244	

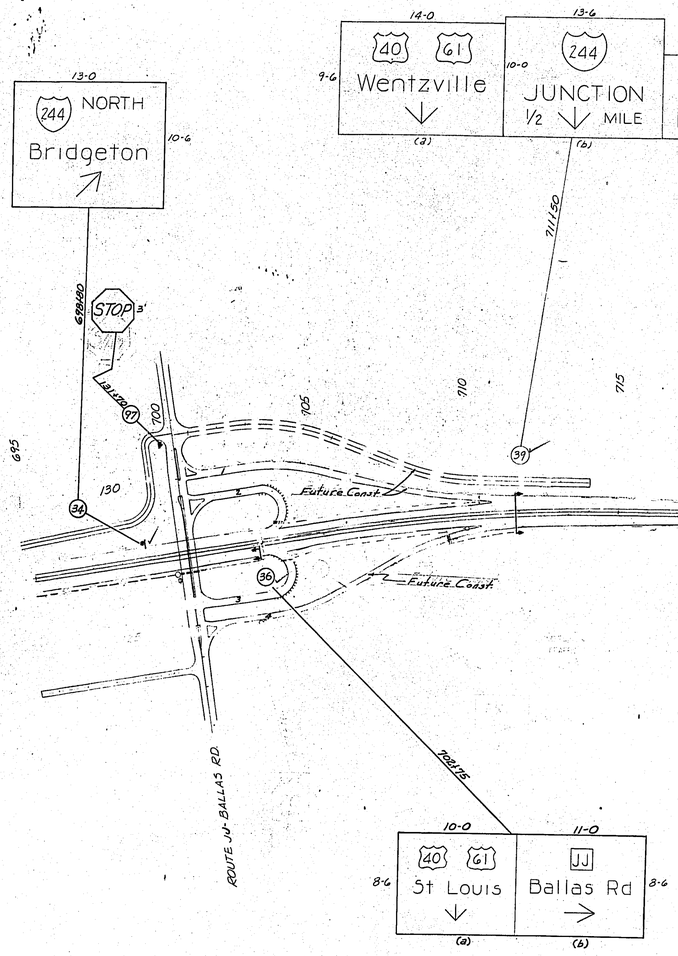
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, MR., AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS CHECKED



583

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	I-244-4(25)274	44
DIST. No.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	



ORIGINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | NOTE BOOK | AREAS CHECKED | NO. | DATE | BY

FINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | NOTE BOOK | AREAS CHECKED | NO. | DATE | BY

401

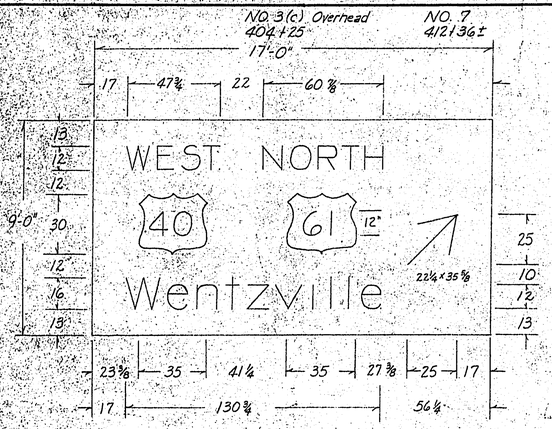
COLLEGE
583
OF KNOWLEDGE

FINAL PLANS

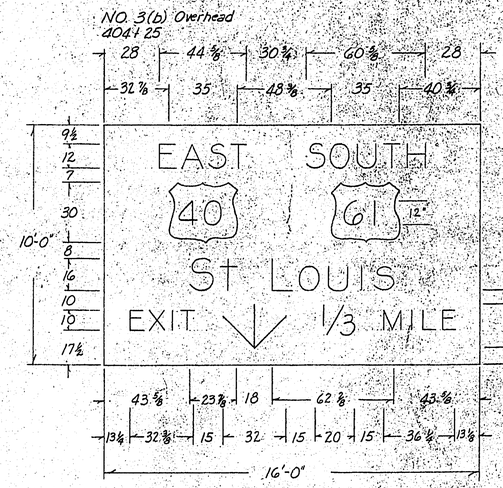
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.	I-244-4(25)27S	45
STATE NO.	COUNTY	ROUTE	MISC.
6	St. Louis	I-244	

NO. 3(c) Overhead
404+25

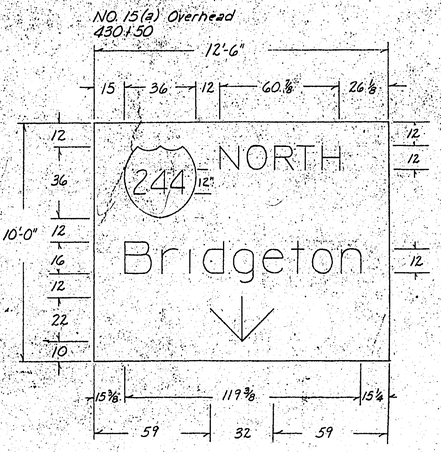
NO. 7
412+36±



NO. 3(b) Overhead
404+25

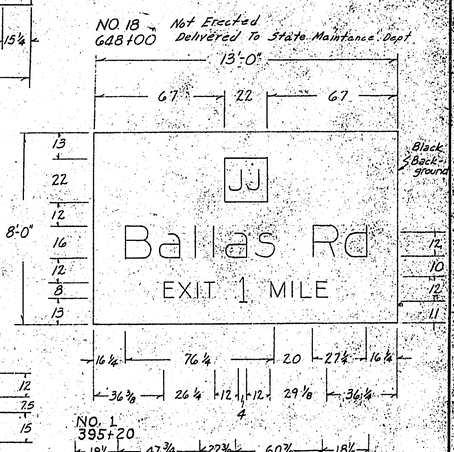


NO. 15(a) Overhead
430+50

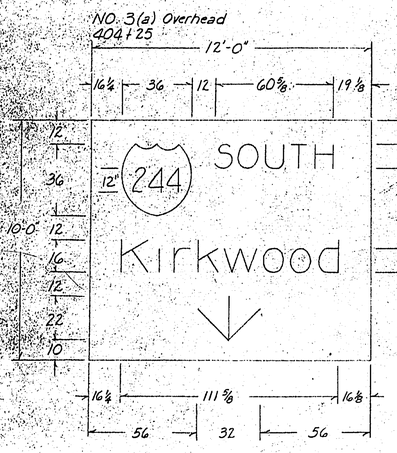


NO. 18
648+00

Not Erected
Delivered To State Maintance Dept.

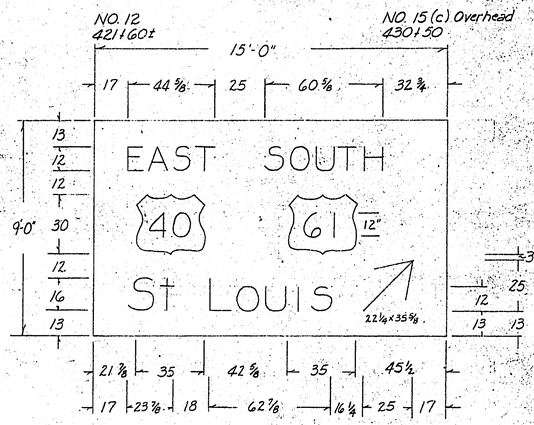


NO. 3(a) Overhead
404+25

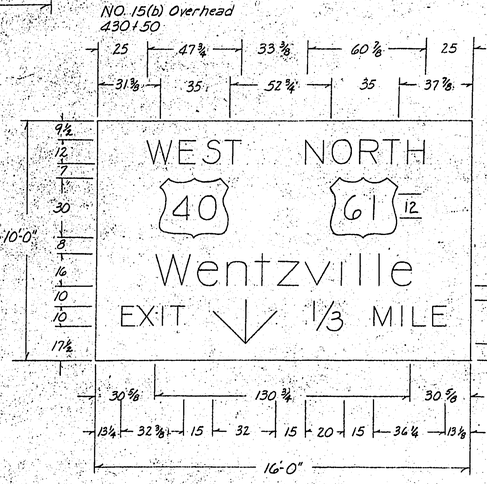


NO. 12
421+60±

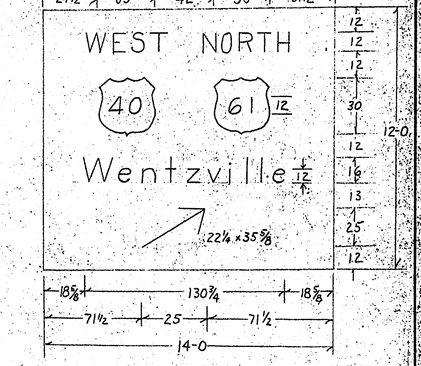
NO. 15(c) Overhead
430+50



NO. 15(b) Overhead
430+50

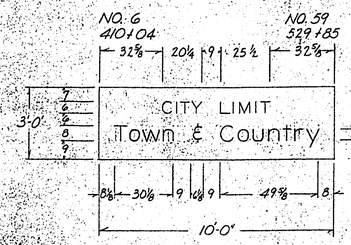


NO. 1
395+20



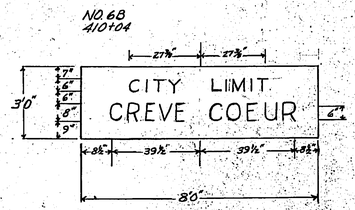
NO. 6
410+04

NO. 59
529+85



Border W. = 1⅛"
Corner R. = 6"

NO. 68
410+04



Border W. = 1⅛"
Corner R. = 6"

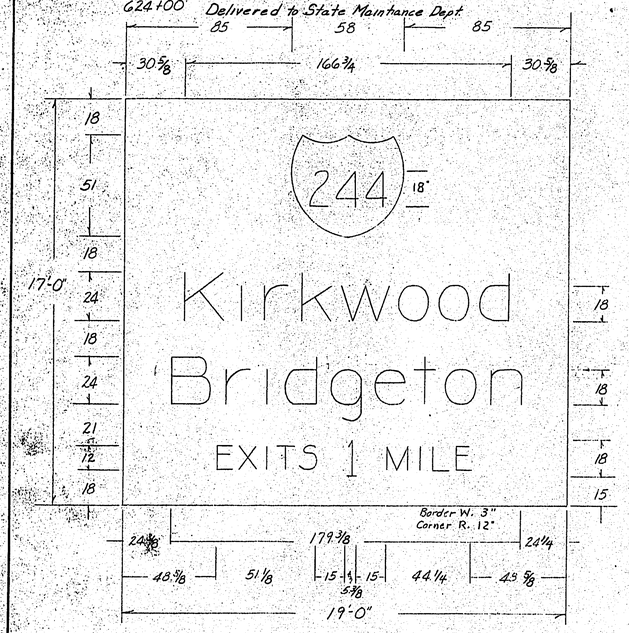
Unless Otherwise Noted
Border Width = 2"
Corner Radii = 12"

FINAL PLANS

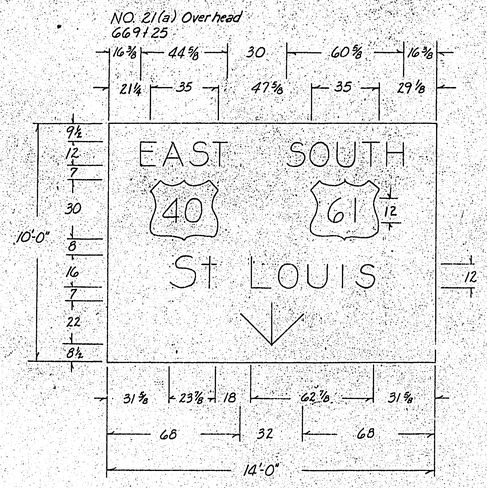
583

REG. PROJ. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	46
DIST. NO.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	

NO. 17 Not Erected
624+00 Delivered to State Maintance Dept

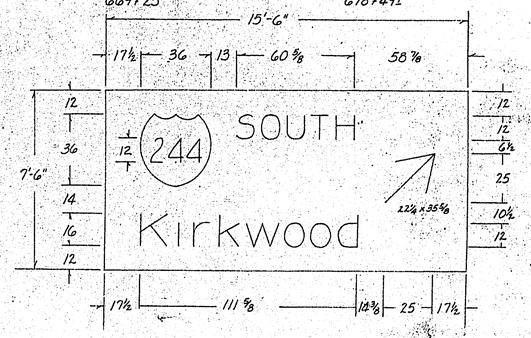


NO. 21(a) Overhead
669+25



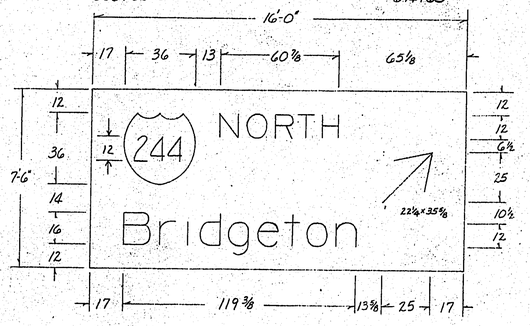
NO. 21(c) Overhead
669+25

NO. 25
678+49±

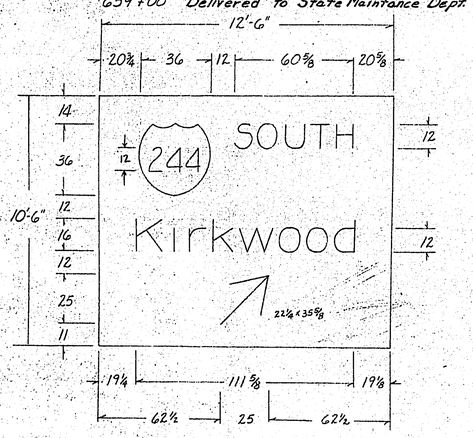


NO. 29
686+52±

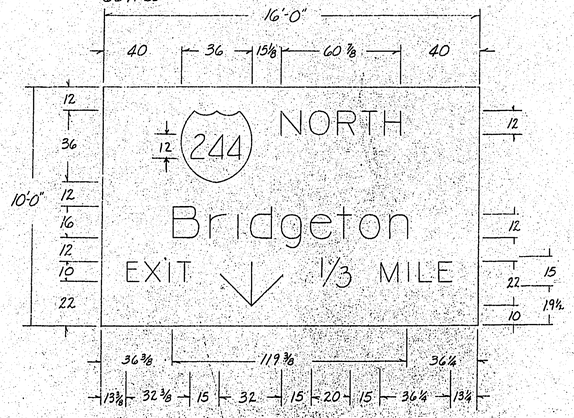
NO. 32(c) Overhead
694+65



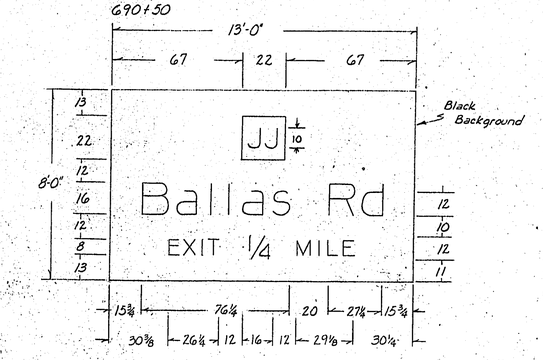
NO. 19 Not Erected.
659+00 Delivered to State Maintance Dept



NO. 21(b) Overhead
669+25



NO. 31
690+50



Unless Otherwise Noted
Border Width = 2"
Corner Radii = 12"

FINAL PLANS

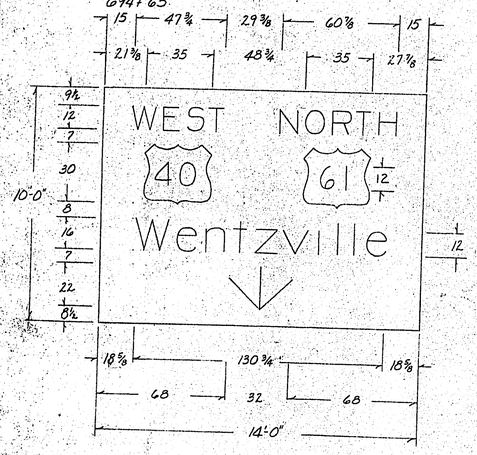
FINAL SURVEY — ORIGINAL SURVEY
DRAWN BY DATE
CHECKED
POINTS
NOTE BOOK
AREA
MISC. CHECKED

583

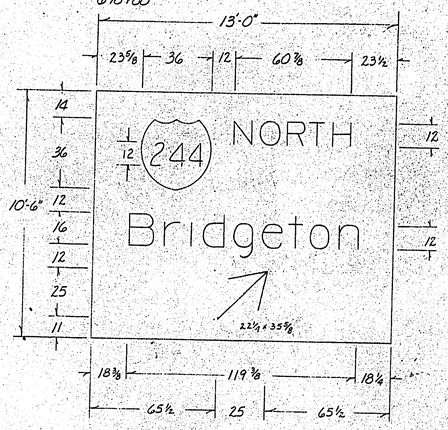
FINAL PLANS

RTE.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.	I-244-4(25) 274	47
DIST. NO.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	

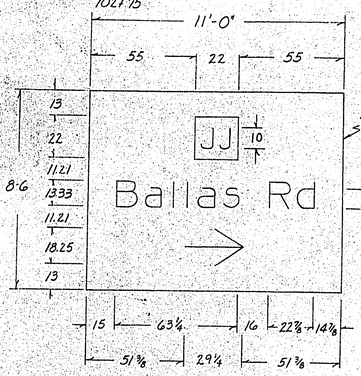
NO. 32(a) Overhead
694+65.



NO. 34
698+80

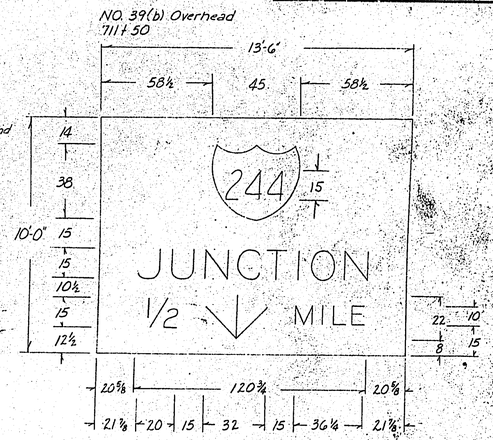


NO. 36(b) Overhead
702+75

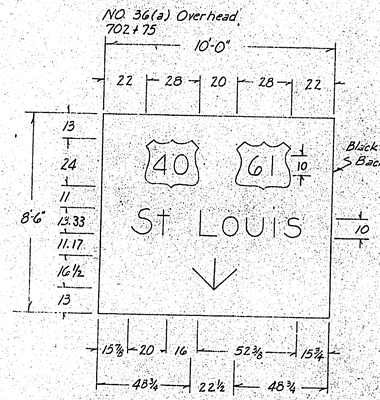


Black
Background

NO. 39(b) Overhead
711+50

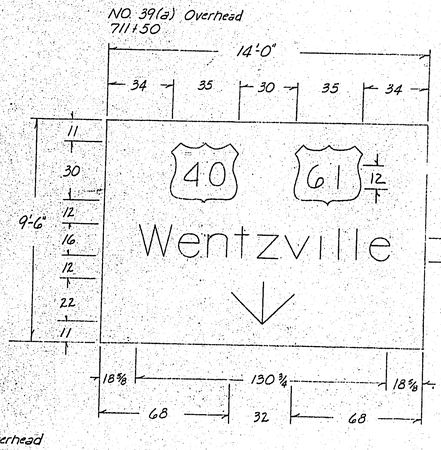


NO. 36(a) Overhead
702+75

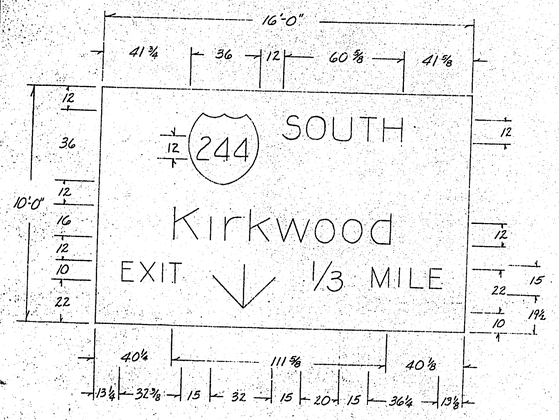


Black
Background

NO. 39(a) Overhead
711+50

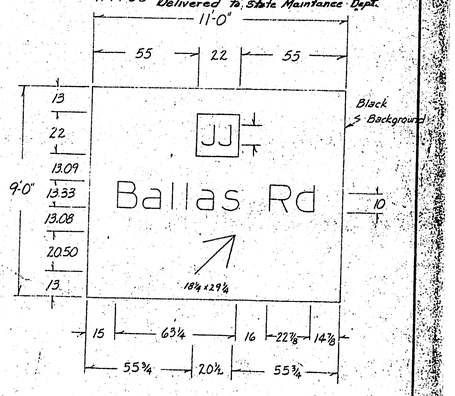


NO. 32(b) (Overhead)
694+65



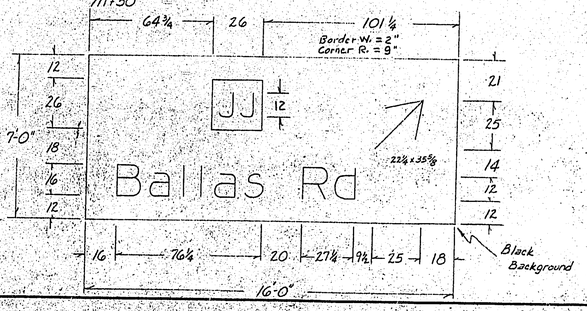
Unless Otherwise Noted
Border Width = 2"
Corner Radii = 12"

NO. 40 Not Erected.
719+00 Delivered to State Maintance Dept.



Black
Background

NO. 39(c) Overhead
711+50



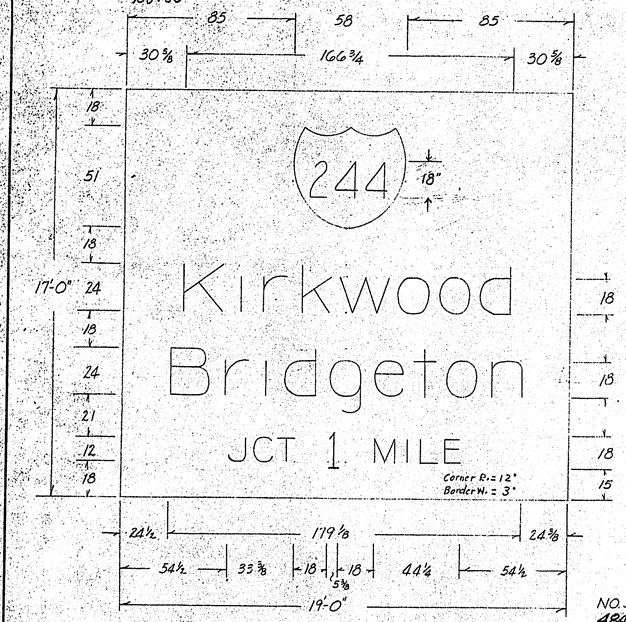
Black
Background

FINAL PLANS

583

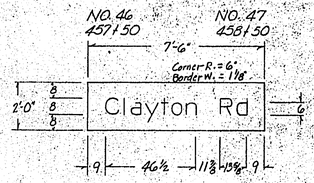
FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET
5	MO.	I-244-4(25)274	48
DIST. NO.	COUNTY	ROUTE	SEC.
6	St Louis	I-244	

NO. 42
735+50

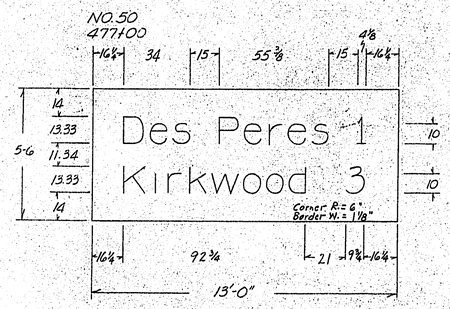


NO. 46
457+50

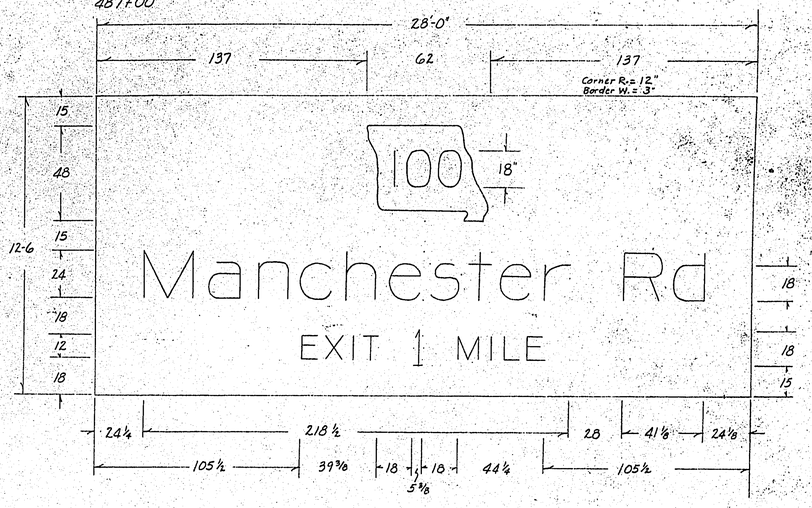
NO. 47
458+50



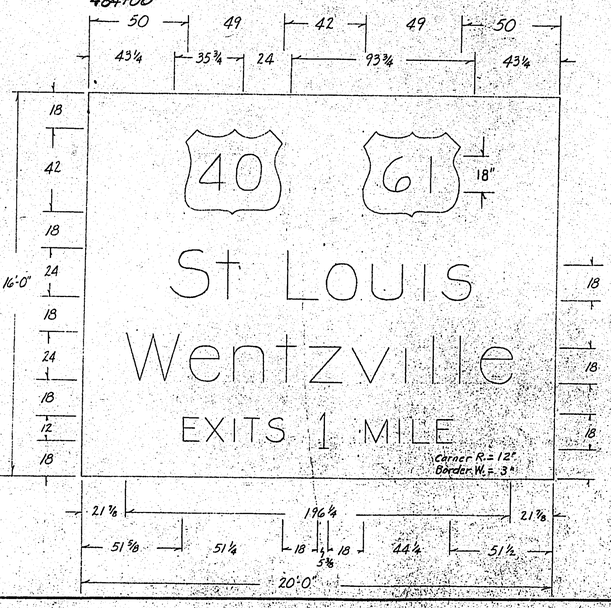
NO. 50
477+00



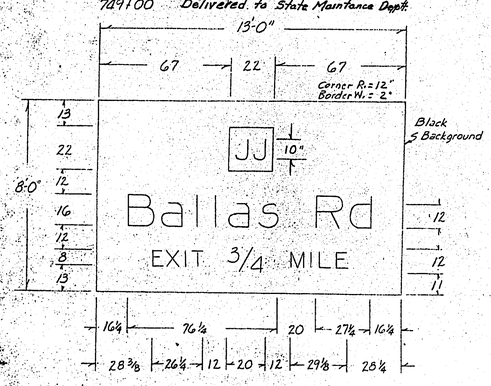
NO. 52.(a)
487+00



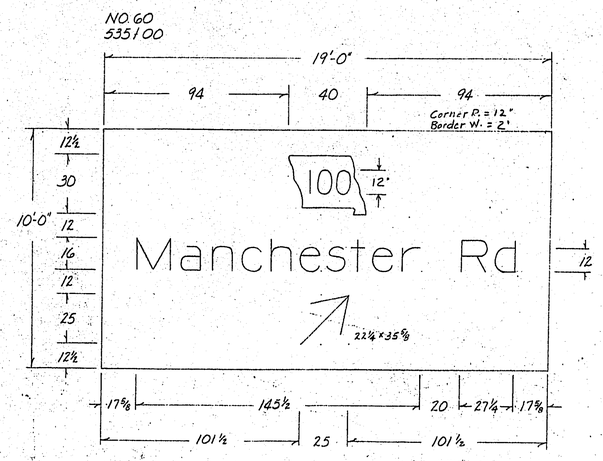
NO. 51.(a)
484+00



NO. 43 Not Erected.
749+00 Delivered to State Maintance Deptt.



NO. 60
535+00

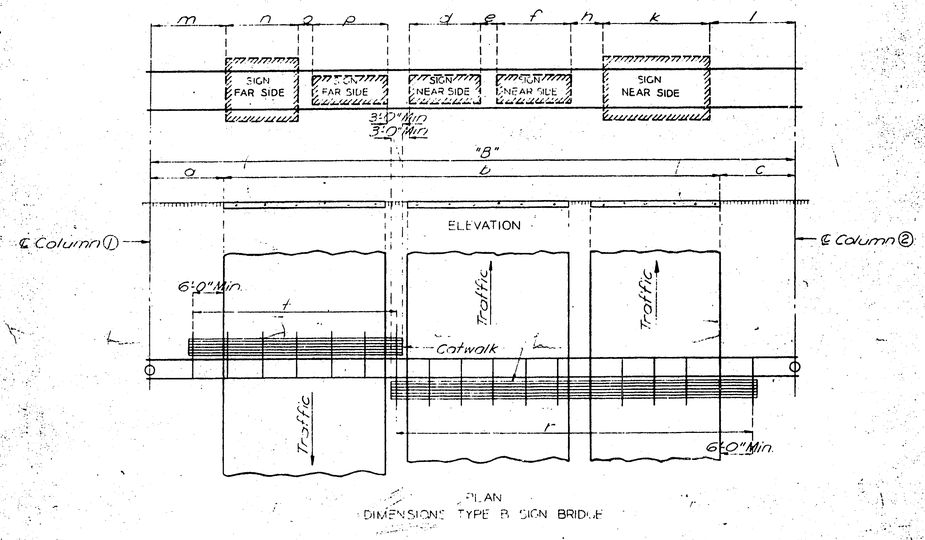


583

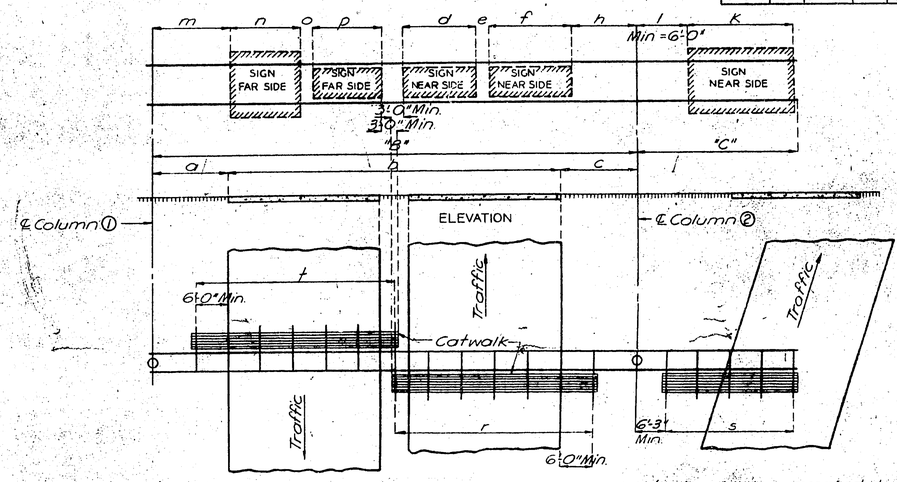
FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD INST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
B	MO.	F-344-1(25)234	19	49	



PLAN
DIMENSIONS TYPE B SIGN BRIDGE



PLAN
DIMENSIONS TYPE BC SIGN BRIDGE

Note: Above, "Min." are recomended dimensions.

SIGN BRIDGE DIMENSIONS

Sign No.	Station No.	Truss Description Type	"B"	"C"	Chord	Roadway Description a	b	c	Sign Spacing Near Side d	ht	e	f	ht	h	k	ht	l	m	n	For Side ht	o	p	ht	Catwalk Near Side r	s	t	Column Data Col. 1 H	Type	Col. 2 H	Type	Ftg. & Ped. C.Y.Cl. B	Lighting Data Power to Col. No.	Photo Rec. Switch	Luminaires Lamp	Qtty	240 V. ser Service	Sign No.
3	404+25		70'-0"		4-4½"x⅜"	20'-0"	40'-0"	10'-0"	12'-0"	10'-0"	0'-6"	16'-0"	10'-0"	0'-6"	17'-0"	9'-0"	6'-6"	17'-6"						70'-6"			18'-0"	III	18'-10"	III	30.5	2	on Col. 2	8	✓	3
15	430+50		69'-0"		4-4½"x⅜"	20'-0"	39'-0"	10'-0"	12'-6"	10'-0"	0'-6"	16'-0"	10'-0"	0'-6"	15'-0"	9'-0"	7'-0"	17'-6"						69'-6"			18'-0"	III	18'-10"	III	30.5	2	on Col. 2	8	✓	15
21	669+25		56'-0"		4-4½"x⅜"	7'-0"	39'-0"	10'-0"	14'-0"	10'-0"	0'-6"	16'-0"	10'-0"	0'-6"	15'-6"	7'-6"	6'-0"	3'-6"						56'-6"			17'-0"	III	16'-6"	III	29.5	1	on Col. 1	8	✓	21
32	664+65		56'-6"		4-4½"x⅜"	7'-0"	39'-6"	10'-0"	14'-0"	10'-0"	0'-6"	16'-0"	10'-0"	0'-6"	16'-0"	7'-6"	6'-6"	15'-0"						57'-0"			17'-0"	III	17'-3"	III	29.0	1	* None	8	✓	32
39	711+50		133'-0"		6-6"x⅝"	10'-0"	113'-0"	10'-0"	14'-0"	9'-6"	0'-6"	13'-6"	10'-0"	4'-0"	16'-0"	7'-0"	10'-0"	75'-0"						63'-6"			17'-4"	V	18'-4"	V	39.5	1	* None	8	✓	39
																															159.0						

* See Sheet 39 for Details.

GENERAL NOTES

Design Specifications: Joint AASHO-A.R.B.A. Special Subcommittee Specifications for the Design and Construction of Structural Supports for Highway Signs, of November 1960.
Basic Assumptions: Wind Velocity 85 mi/hr. Wind Pressure on Sign Area = 40 #/s'. Ice Load 3"/s'.
Structural Aluminum Stress 10,000 #/s".
Structural Steel Stress 20,000 #/s" (AST.M.-A36)
Reinforcing Steel Stress 20,000 #/s"
Concrete Class "B" Stress 1200 #/s"
Footing Soil Pressure 2,750 #/s'.
Allowable unit stresses due to wind load or wind load in combination with other forces are increased 45%.
Minimum Clearance: Vertical roadway clearance 17'-0".
Reinforcement: Embedment is to ℄ of bar and is 2" to main reinforcement, except as noted.

Truss shall be all-welded construction. All welding to be continuous unless otherwise shown.
Qualification of welding operators will be required.
Structural steel welding and welder qualification shall be performed in accordance with A.W.S. Specifications for Bridges. Aluminum welding and welder qualification shall be performed in accordance with Sec. 9, A.S.M.E.

Paint: All structural steel, except as noted, Shop, one coat of red lead; Field, contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection two coats of red lead. All other exposed surfaces, second coat brown and third coat aluminum. Payment for cleaning and painting such surfaces will be included in price bid for items painted. As an alternate the above surfaces may be galvanized according to 55.2.8 of the Standard Specifications.
Permits must be obtained for all truck loads over legal length.
Electrical: See fluorescent sign lighting equipment sheet.

ASSEMBLED 19 BY
CHECKED 19 BY

Note: This drawing is not to scale. Follow dimensions.

OVERHEAD SIGN TRUSSES
A.S.T.M.-A36
STRUCTURAL STEEL

Aluminum or Steel Trusses Optional.
See Special Provisions

DATA SHEET (SEE STANDARD 72.60)

FINAL PLANS

Elec. Wk. 7/1

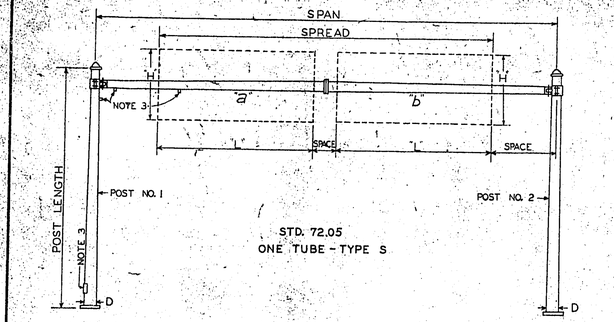
469

583

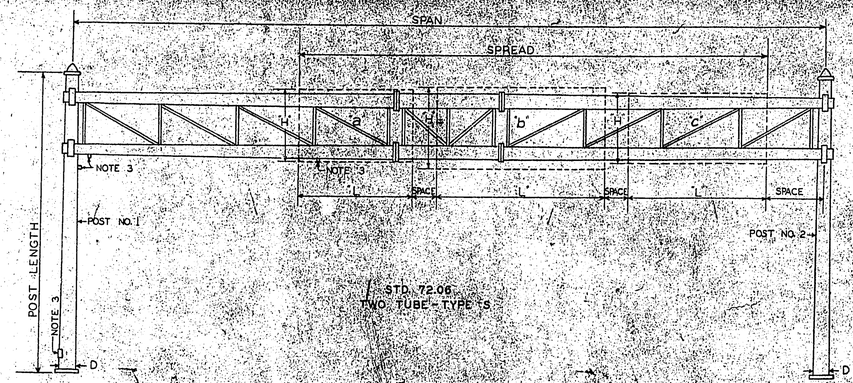
SP-34 REVISED 11-15-63

FINAL PLANS

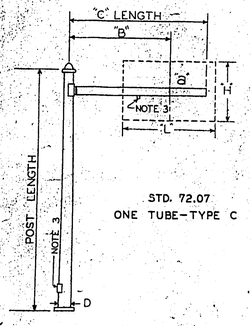
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.	F-244-4(25)274	50
DIST. NO.	COUNTY		CONTR. NO.
6	St. Louis		F-244



STD. 72.05
ONE TUBE - TYPE S



STD. 72.06
TWO TUBE - TYPE S



STD. 72.07
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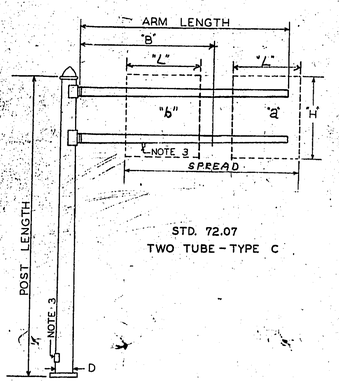
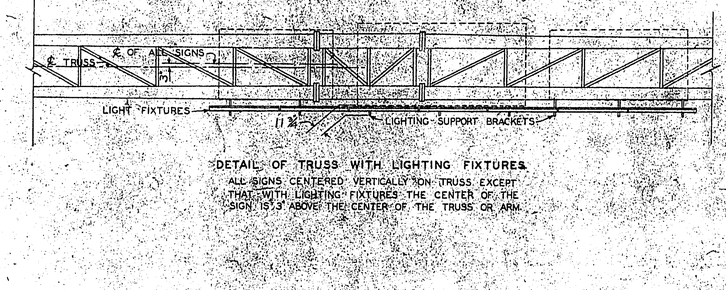
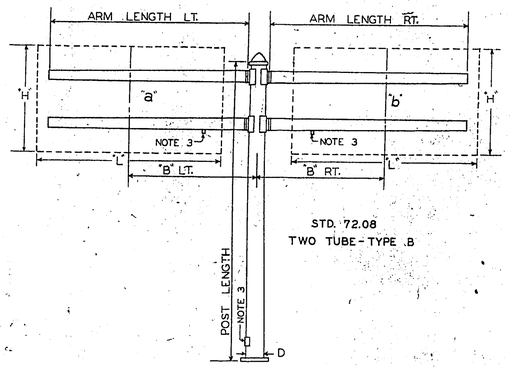


STD. 72.07
TWO TUBE - TYPE C



DETAIL OF TRUSS WITH LIGHTING FIXTURES.
ALL SIGNS CENTERED VERTICALLY ON TRUSS EXCEPT THAT WITH LIGHTING FIXTURES THE CENTER OF THE SIGN IS 1'-3" ABOVE THE CENTER OF THE TRUSS OR ARM.



STD. 72.08
TWO TUBE - TYPE B

NOTES:
1. ALL POSTS, BEAMS, MAST ARMS, ANGLES, BRACKETS, ETC. SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. SHOP DRAWINGS ARE NOT REQUIRED.
3. HAND HOLES AND 1/4" BLIND HEAD COUPLINGS REQUIRED WHEN SIGNS ARE TO BE LIGHTED.

TUBULAR STEEL SUPPORT NUMBERING SYSTEM

THE FIRST SYMBOL (LETTER) INDICATES TYPE AS C FOR CANTILEVER, B FOR BUTTERFLY, S FOR SPAN TYPE.
THE SECOND SYMBOL (NUMBER) INDICATES SINGLE (1) OR DOUBLE (2) MAST ARMS OR TRUSS.
THE THIRD SYMBOL (NUMBER) INDICATES GUAGE - POST
7 = 7 GA. (.1793) 77 = 7 + 7 GA. (.3586)
3 = 3 GA. (.2500) 33 = 3 + 3 GA. (.5000)
0 = 0 GA. (.3125) 00 = 0 + 0 GA. (.6250)
THE FOURTH SYMBOL (NUMBER) INDICATES DIAMETER IN INCHES OF THE POST BASE.
THE FIFTH SYMBOL (NUMBER) INDICATES LENGTH IN FEET OF ARM OR SPAN.
EXAMPLE: DESIGN NO. B-20018-24 INDICATES BUTTERFLY TYPE, TWO ARMS, 2-PLY, 0-GAUGE, 18" DIAMETER AT BASE OF POST, & 24' MAST ARM.

TUBULAR STEEL SUPPORTS DESIGN DATA
STD. DWGS. 72.05 THRU 72.09

SIGN NO.	STATION	LOCATION	STD. NO.	TYPE	SPAN OR ARM FT. & IN.	"B" FT. & IN.	POST LENGTHS NO. 1 FT.	POST LENGTHS NO. 2 FT.	CONC. FOOTINGS CU. YD.	SIGN DATA SPREAD FT. & IN.	SIGN "a" "L"	SIGN "a" "H"	SPACE	SIGN "b" "L"	SIGN "b" "H"	SPACE	SIGN "c" "L"	SIGN "c" "H"	SPACE	SIGN "d" "L"	SIGN "d" "H"	SPACE	SIGN "e" "L"	SIGN "e" "H"	SPACE	LIGHTS SQ. FT.	TOTAL SQ. FT.	ELECTRICAL NO. FIXTURES 1 LAMP	NO. FIXTURES 2 LAMP	"240 V" SERVICE	PHOTO CONTROL	POWER TO POST NO.
36	702+75	EBL Rt. Rte 40	72.07	C-2018-24	24'	22'-6"	23'		5.05	27'-0"	10'-0"	8'-6"	6'-0"	11'-0"	8'-6"											10.5	189		4	V	NONE	1

FINAL PLANS

+ SEE SHEET #39 FOR DETAILS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	51
DIST. NO.	COUNTY	ROUTE	NO.
6	St. Louis	I244	

FINAL SURVEY — DATE / BY: SURVEYED, PLOTTED, NOTE BOOK, AREAS, CHECKED, NO.

ORIGINAL SURVEY — DATE / BY: SURVEYED, PLOTTED, NOTE BOOK, AREAS, CHECKED, NO.

W.B. Rte. 40

+15 — +40 — 5+76 — Ramp 1 — 710 — 705 — MATCH LINE

TRUSS
Sign No. 39
711+50 W.B. Rte 40
175' Guard Rail

9#20 #6 & 3½" RS. Conduit

707+20 Type A Hand hole

1,390'- 2 No. 6 1" Cable Conduit
1,089 Trenching & Backfilling Type II

705 — MATCH LINE — 703+40 3#4 x 3½" RS. Conduit — 40'x3½" RS. Conduit — Ramp 2 — 703+45 60' Lt. — 703 — 2#8 TIC 3 703+35 2#6 30'x3½" RS. Conduit — E.B. Rte. 40 — 700 — 6#8 x 3½" RS. Conduit — Ballas Rd — M3HD Pole 126+85 43' Lt. — Union Elec. Pole 126+45 38' Lt.

TUBULAR SUPPORT
Sign No. 36
702+75 E.B. Rte. 40
75' Guard Rail

ℓ Ballas Rd.

M3HD Pole — Union Electric Pole — 155 — 125 — 58 — W.B. Rte. 40 — +30 — +55 — Ramp 1 — +00 695 — 44'x3½" RS. Conduit

TRUSS
Sign No. 32
694+65 W.B. Rte 40
75' Guard Rail
630'- 2 No. 8 1" Cable Conduit
546' Trenching & Backfilling Type II

Ramp 7 — +40 — +15 — 55 — 15 — Union Elec. Pole — N.B. I-244 — 430

TRUSS
Sig. St. No. 15
430+50 N.B. I-244
75' Guard Rail
270'- 2 No. 8 1" Cable Conduit
238' Trenching & Backfilling Type II

Outer Road — Ramp 8 — Ramp 6 — 670 — +35 — +60 — Union Elec. Pole — +98 155' — 100 — 42'x3½" RS. Conduit — E.B. Rte. 40

TRUSS
Sign No. 21
669+25 E.B. Rte. 40
75' Guard Rail
320'- 2 No. 8 1" Cable Conduit
231' Trenching & Backfilling Type II

400 — 405 — S.B. I-244 — +30 — +40 — +35 — Ramp 2 — +28 147' — Union Elec. Pole

TRUSS
Sign No. 3
404+25 S.B. I-244
75' Guard Rail
560'- 2 No. 8 1" Cable Conduit
528' Trenching & Backfilling Type II

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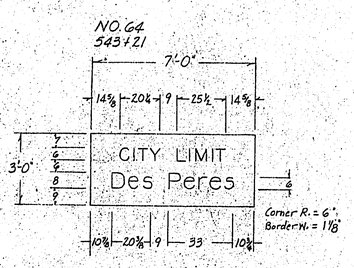
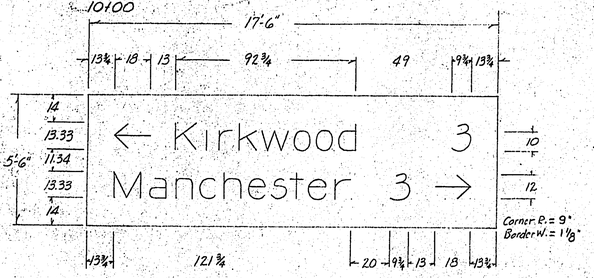
FINAL PLANS

FED. ROAD STY. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	58
DIST. NO.	COUNTY		TOTAL SHTS.
6	St. Louis		1244

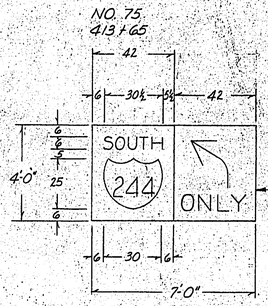
NO. 64
543+21



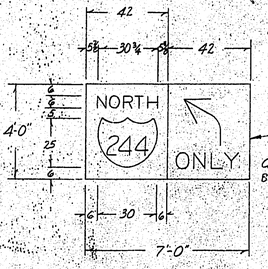
NO. 66
1010+00



NO. 75
413+65

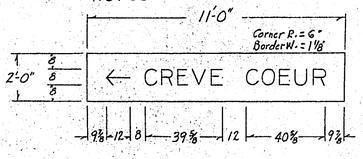


NO. 72
409+53



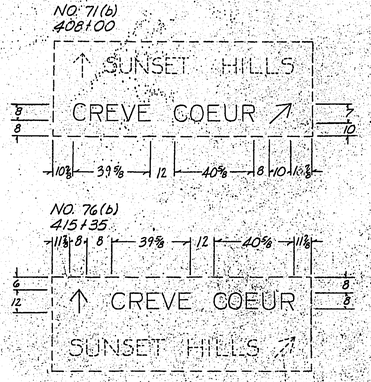
These two signs are white on black background. To be mounted on signal mast-arm. Sign #75 on Post #14 and Sign #72 on Post #6. See sheet No. 75 for mounting.

NO. 73(b)
410+00



NO. 71(b)
408+00

NO. 76(b)
415+35



These two signs are existing. Add the legend shown in solid lines.

ORIGINAL SURVEY — DATE — BY — SURVEYED — COMPUTED — NOTE BOOK — PAGE NO. — AREAS CHECKED

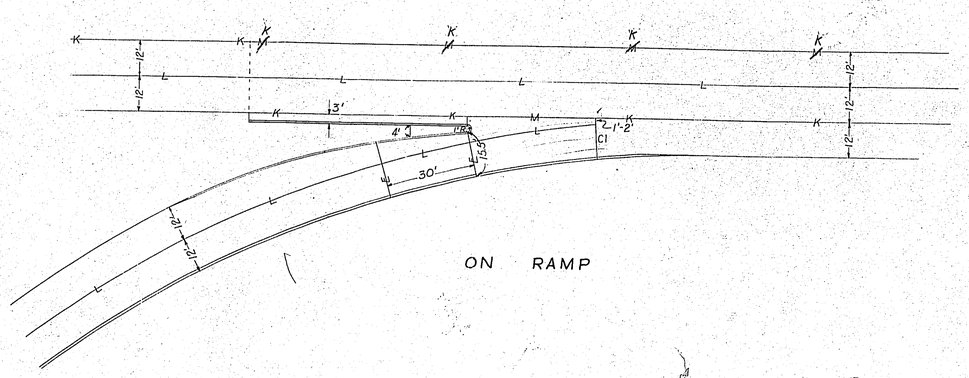
FINAL SURVEY — DATE — BY — SURVEYED — COMPUTED — NOTE BOOK — PAGE NO. — AREAS CHECKED

583

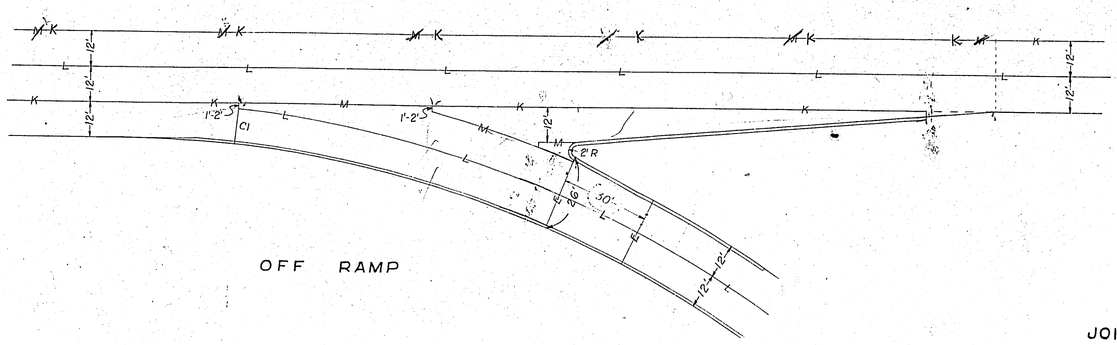
FINAL PLANS

FINAL PLANS

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		53
DIST. No.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	



ON RAMP



OFF RAMP

JOINT DETAILS
FOR
LOOP RAMPS
ROUTE 40TR

SPECIAL SHEET 1 OF 7

FINAL PLANS Loops @ 40TR

ORIGINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — AREAS CHECKED — NO. — DATE — BY

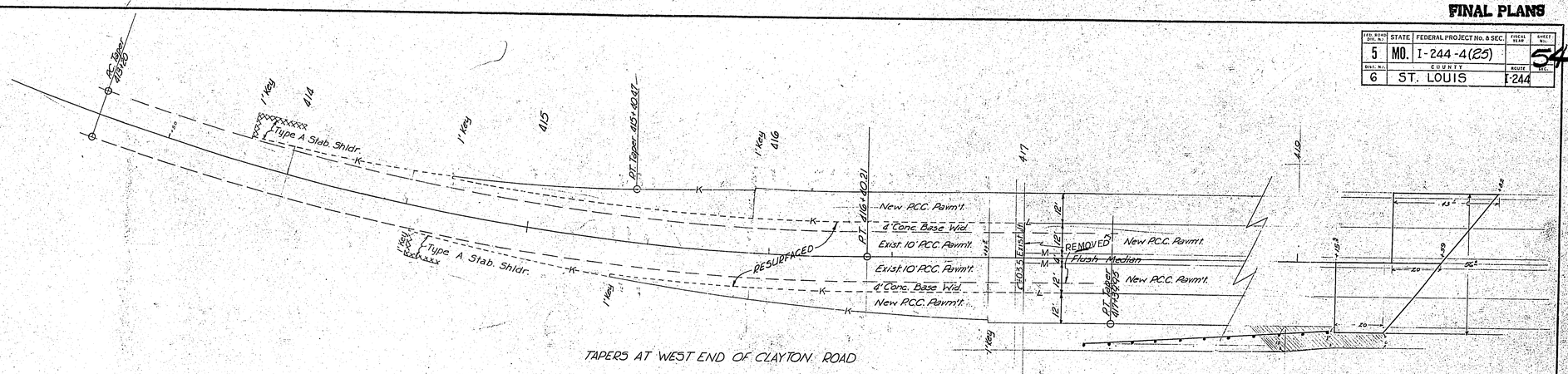
FINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — AREAS CHECKED — NO. — DATE — BY

#12

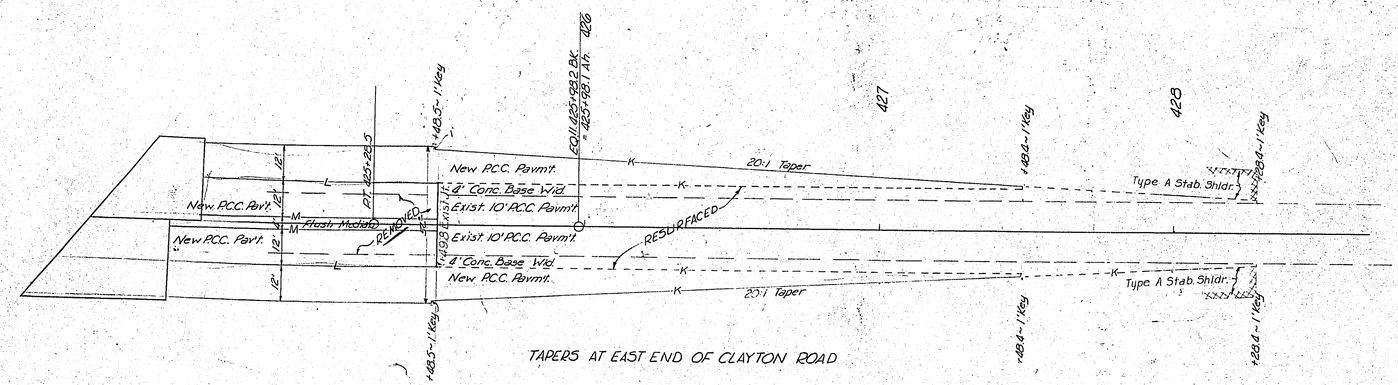
583

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(25)		54
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	



TAPERS AT WEST END OF CLAYTON ROAD



TAPERS AT EAST END OF CLAYTON ROAD

Scale 0' 50' 100'

TAPER & JOINT DETAILS
CLAYTON ROAD
SPECIAL SHEET 2 OF 7

FINAL PLANS
Clayton - Joints

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

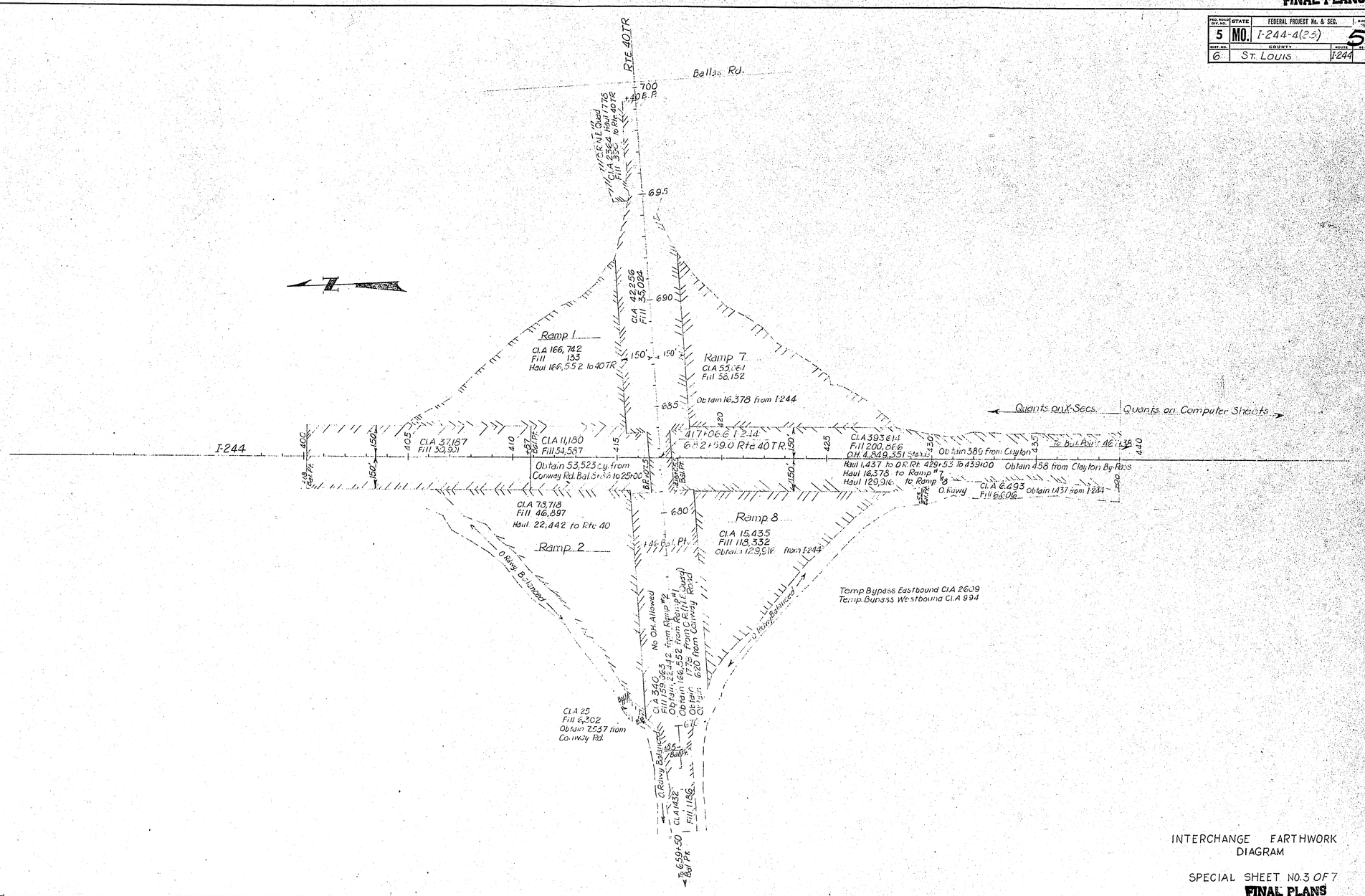
DELETED
583
OF MICROFILM

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)	55
DIST. NO.	COUNTY	ROUTE NO.	
6	St. Louis	I-244	

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, MASS CHECKED, NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, MASS CHECKED, NOTE BOOK, NO., BY, DATE



INTERCHANGE EARTHWORK DIAGRAM

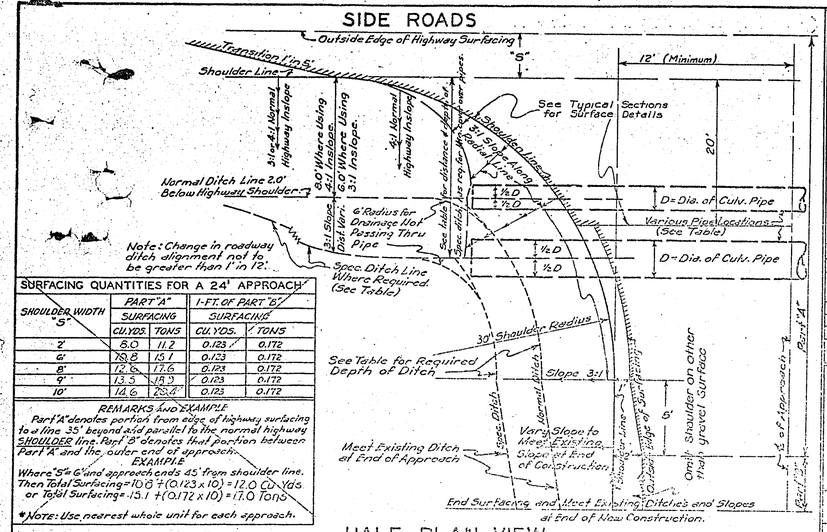
SPECIAL SHEET NO. 3 OF 7

FINAL PLANS

583

55A

SIDE ROADS



SURFACING QUANTITIES FOR A 24' APPROACH				
SHOULDER WIDTH "S"	PART "A" SURFACING		1-FT. OF PART "B" SURFACING	
	CU.YDS.	TONS	CU.YDS.	TONS
2'	6.0	11.2	0.123	0.172
6'	18.8	15.1	0.123	0.172
8'	12.6	11.6	0.123	0.172
9'	13.5	19.3	0.123	0.172
10'	14.6	20.8	0.123	0.172

REMARKS AND EXAMPLE

Part "A" denotes portion from edge of highway surfacing to a line 35' beyond and parallel to the normal highway SHOULDER line. Part "B" denotes that portion between Part A and the outer end of approach.

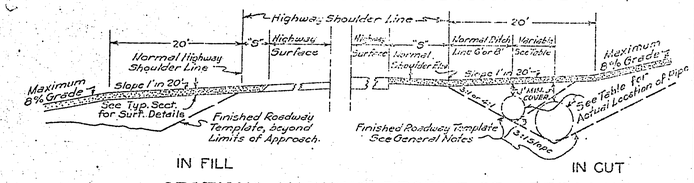
EXAMPLE

Where "S" is 6' and approach ends 45' from shoulder line. Then Total Surfacing = 10.6 + (0.123 x 10) = 12.0 Cu. Yds. or Total Surfacing = 15.1 + (0.172 x 10) = 17.0 Tons

*NOTE: Use nearest whole unit for each approach.

HALF PLAN VIEW

APPROACH TO BE CONSTRUCTED SYMMETRICAL ABOUT ITS ℄



IN FILL — IN CUT

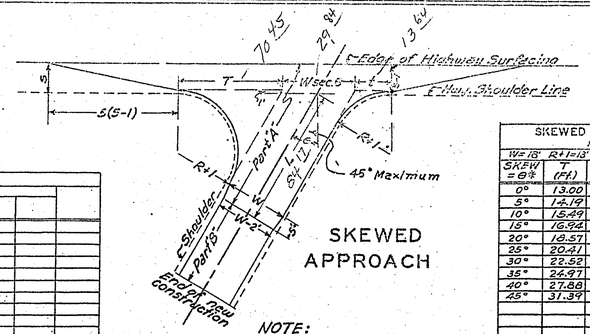
SECTIONS SHOWING PROFILE OF APPROACHES

NOTE-MINIMUM CROWN SHALL BE 5" IN 12' AT END OF 30' SHOULDER RADIUS

TABLE OF STAKING DATA AND PIPE LENGTHS						
	TYPE NO. 1			TYPE NO. 2		
	HIGHWAY INSLOPE OF 4:1 TO NORMAL DITCH LINE, 3:1 SLOPE BEYOND THE NORMAL DITCH LINE AND 3:1 SLOPE AROUND RETURN.			HIGHWAY INSLOPE OF 3:1 AND 2:1 SLOPE AROUND RETURN		
Dia. of Pipe	Min. Depth of Ditch Below Highway Shoulder Line	Dist. from Highway Shoulder Line to ℄ of Pipe	Total Lgth. of Pipe for 24 Ft. Approach	Min. Depth of Ditch Below Highway Shoulder Line	Dist. from Highway Shoulder Line to ℄ of Pipe	Total Lgth. of Pipe for 24 Ft. Approach
12"	2.0'	8.0'	64'	2.0'	6.0'	56'
15"	2.0'	8.0'	64'	2.0'	6.0'	56'
18"	2.0'	8.0'	64'	2.2'	6.6'	56'
24"	2.5'	9.6'	62'	2.6'	7.8'	56'
30"	3.0'	10.9'	60'	3.1'	9.1'	54'
36"	3.4'	12.2'	60'	3.5'	10.3'	54'

SKEWED SIDE ROAD APPROACHES					
W=22' R+1=31' S=10'					
SKEW ∠ θ*	T (Ft.)	ℓ (Ft.)	W sec θ (Ft.)	L (Ft.)	AREA PART "A" (Sq. Yds.)
0°	31.00	31.00	22.00	35.00	142.4
5°	33.83	28.81	22.08	38.79	172.7
10°	36.94	26.01	22.34	42.87	186.1
15°	40.40	23.79	22.78	47.31	203.1
20°	44.27	21.71	23.41	52.21	223.7
22°30'	46.46	20.71	23.81	54.87	235.7
25°	48.65	19.75	24.27	57.69	248.1
27°30'	51.05	18.81	24.80	60.66	261.3
30°	53.65	17.90	25.40	63.89	275.4
32°30'	56.51	17.01	26.09	67.34	290.9
35°	59.55	16.14	26.86	71.03	307.7
37°30'	62.86	15.29	27.73	75.04	326.0
40°	66.48	14.45	28.72	79.41	345.8
42°30'	70.45	13.64	29.84	84.11	367.4
45°	74.84	12.84	31.11	89.43	391.6
AGGREGATE SURFACING				Cu. Yds.	123
PART "B" PER FT. OF LENGTH				Tons	172

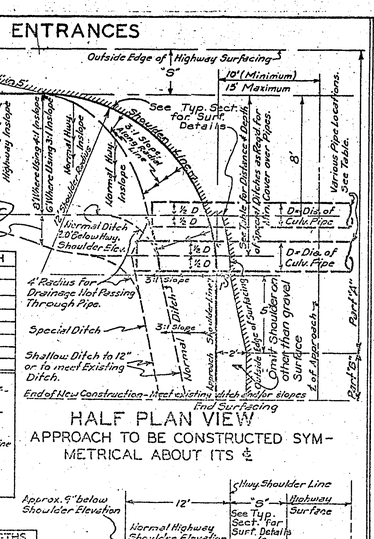
*Interpolate for intermediate values of θ.



SKEWED APPROACH

NOTE: In estimating surfacing quantities use nearest whole unit for each approach.

PRIVATE ENTRANCES



SURFACING QUANTITIES FOR A 20' APPROACH				
SHOULDER WIDTH "S"	PART "A" SURFACING		1-FT. of PART "B" SURFACING	
	CU.YDS.	TONS	CU.YDS.	TONS
2'	2.7	3.8	0.10	0.14
6'	4.5	6.3	0.10	0.14
8'	6.0	8.1	0.10	0.14
9'	6.6	9.2	0.10	0.14
10'	7.1	10.0	0.10	0.14

REMARKS AND EXAMPLE

Part "A" denotes portion from edge of highway surfacing to a line 17' beyond and parallel to the normal highway SHOULDER line. Part "B" denotes that portion between Part "A" and the outer end of approach.

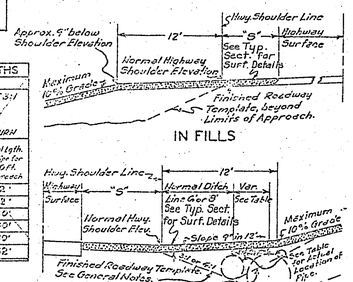
EXAMPLE

Where "S" is 6' and approach ends 20' from hwy. shoulder line Then Total Surfacing = 7.8 + (0.10 x 13) = 9.1 Cu. Yds. or Tot. Surfacing = 8.1 + (0.14 x 13) = 10 Tons

*Note: Use nearest whole unit for each approach.

HALF PLAN VIEW

APPROACH TO BE CONSTRUCTED SYMMETRICAL ABOUT ITS ℄



IN FILLS — IN CUTS

SECTIONS SHOWING PROFILE OF APPROACHES

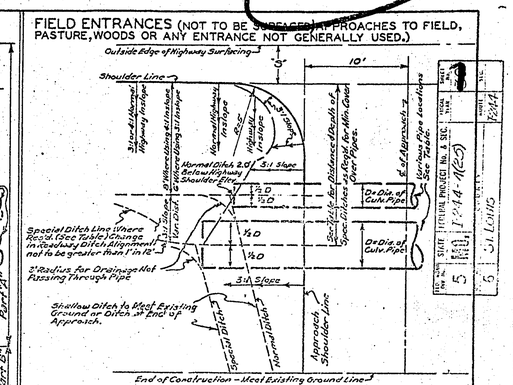
NOTE-MINIMUM CROWN SHALL BE 5" IN 10' AT END OF 12' SHOULDER RADIUS

TABLE OF STAKING DATA AND PIPE LENGTHS						
	TYPE NO. 1			TYPE NO. 2		
	HIGHWAY INSLOPE OF 4:1 TO NORMAL DITCH LINE, 3:1 SLOPE BEYOND NORMAL DITCH LINE AND 3:1 SLOPE AROUND RETURN			HIGHWAY INSLOPE OF 3:1 AND 1½:1 SLOPE AROUND RETURN		
Dia. of Pipe	Min. Depth of Ditch Below Highway Shoulder Line	Dist. from Highway Shoulder Line to ℄ of Pipe	Total Lgth. of Pipe for 20 Ft. Approach	Min. Depth of Ditch Below Highway Shoulder Line	Dist. from Highway Shoulder Line to ℄ of Pipe	Total Lgth. of Pipe for 20 Ft. Approach
12"	2.0'	6.0'	52'	2.0'	6.0'	48'
15"	2.0'	6.0'	52'	2.0'	6.0'	52'
18"	2.0'	6.0'	54'	2.1'	6.3'	50'
24"	2.4'	8.2'	56'	2.5'	7.5'	50'
30"	2.9'	10.6'	52'	2.9'	8.6'	50'
36"	3.2'	11.8'	58'	3.3'	10.0'	52'

SKEWED PRIVATE ENTRANCE APPROACHES					
W=18' R+1=13' S=10'					
SKEW ∠ θ*	T (Ft.)	ℓ (Ft.)	W sec θ (Ft.)	L (Ft.)	AREA PART "A" (Sq. Yds.)
0°	13.00	13.00	18.00	17.00	132.5
5°	14.19	11.91	18.07	18.98	136.8
10°	15.49	10.91	18.28	21.06	146.1
15°	16.94	9.98	18.63	23.31	158.1
20°	18.57	9.10	19.15	25.79	165.4
25°	20.41	8.28	19.85	28.61	184.3
30°	22.52	7.51	20.79	31.87	174.6
35°	24.97	6.77	21.98	35.05	187.4
40°	27.86	6.03	23.49	39.18	202.3
45°	31.39	5.39	25.45	43.98	221.7
AGGREGATE SURFACING				Cu. Yds.	0.10
PART "B" PER FT. OF LENGTH				Tons	0.14

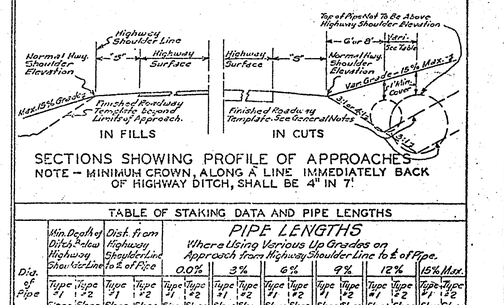
*Interpolate for intermediate values of θ.

FIELD ENTRANCES (NOT TO BE SURFACED) APPROACHES TO FIELD, PASTURE, WOODS OR ANY ENTRANCE NOT GENERALLY USED.)



HALF PLAN VIEW

APPROACH TO BE CONSTRUCTED SYMMETRICAL ABOUT ITS ℄



SECTIONS SHOWING PROFILE OF APPROACHES

NOTE - MINIMUM CROWN, ALONG A LINE IMMEDIATELY BACK OF HIGHWAY DITCH, SHALL BE 4" IN 7'

TABLE OF STAKING DATA AND PIPE LENGTHS																													
					PIPE LENGTHS Where Using Various Up Grades on Approach from Highway Shoulder Line to ℄ of Pipe.																									
Dia. of Pipe	Min. Depth of Ditch Below Highway Shoulder Line	Dist. from Highway Shoulder Line to ℄ of Pipe	0.0%				3%				6%				9%				12%				15% Max.						
			Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope	Type #1 Slope	Type #2 Slope
12"	2.0'	2.0'	0.0'	6.0'	76'	26'	26'	26'	28'	28'	28'	28'	30'	28'	30'	28'	32'	30'	32'	30'	34'	32'	34'	32'	36'	34'	36'	34'	38'	36'
15"	2.0'	2.0'	0.0'	6.0'	*	*	26'	26'	28'	28'	28'	28'	30'	28'	30'	28'	32'	30'	32'	30'	34'	32'	34'	32'	36'	34'	36'	34'	38'	36'
18"	2.0'	2.0'	0.0'	6.0'	*	*	*	*	28'	*	28'	28'	30'	*	30'	28'	32'	30'	32'	30'	34'	32'	34'	32'	36'	34'	36'	34'	38'	36'
24"	2.0'	2.0'	0.0'	6.0'	*	*	*	*	*	*	*	*	30'	*	30'	28'	32'	30'	32'	30'	34'	32'	34'	32'	36'	34'	36'	34'	38'	36'
30"	2.5'	2.5'	9.5'	7.5'	*	*	*	*	*	*	*	*	*	*	32'	30'	32'	30'	34'	32'	34'	32'	36'	34'	36'	34'	38'	36'	40'	38'
36"	3.0'	3.0'	11.0'	9.0'	*	*	*	*	*	*	*	*	32'	*	34'	32'	34'	32'	36'	34'	36'	34'	38'	36'	38'	36'	40'	38'	42'	40'

Notes:- Type #1 Slope indicates highway inslope of 4:1 to normal ditch line and 3:1 inslope beyond normal ditch line. Type # 2 Slope indicates highway inslope of 3:1.
* Indicates that this grade on approach is insufficient to provide 12" minimum cover over top of pipe. Therefore, this grade cannot be used.

GENERAL NOTES for ALL APPROACHES:

These drawings are not to scale, follow dimensions. For surfacing details of "Paved Approaches", see separate sheets.

Shoulder radius shall be as indicated unless otherwise shown on plans.

MISSOURI STATE HIGHWAY COMMISSION

STANDARD APPROACHES FOR SIDE ROADS, PRIVATE ENTRANCES AND FIELD ENTRANCES

APPROVED R M Hunter ENG. SURVEYS AND PLANS — APPROVED J J Bartlett CHIEF ENGINEER

Revisions				
6-6-52 6-9-54	6-11-54	1-1-61	5-1-62	SP. SH. 4 OF 7 MODIFIED

21.51

STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
MO.	A SEC.		
5	I-244-1(125)	5	5

ST. LOUIS

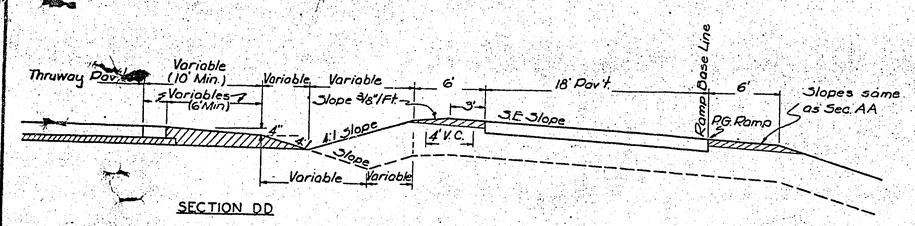
583

12 TO 1

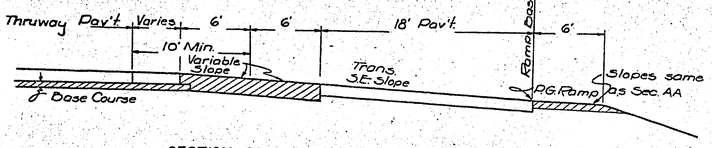
FINAL PLANS

55B

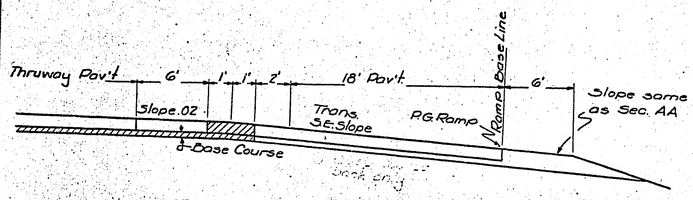
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-244-4(25)		
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		I-244	



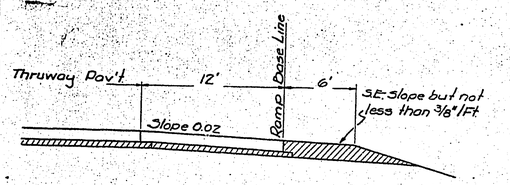
SECTION DD



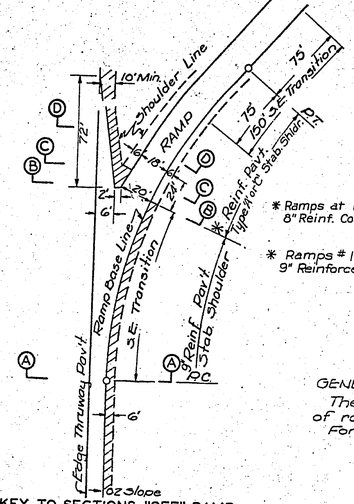
SECTION CC



SECTION BB



SECTION AA

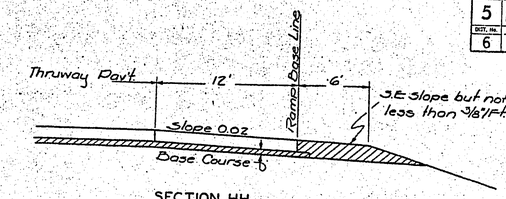


* Ramps at Rte. 40
8" Reinf. Conc.

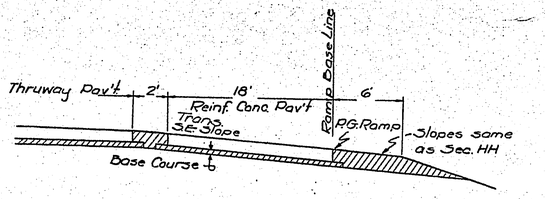
* Ramps #1 & #2 Manchester Rd.
9" Reinforced Conc.

KEY TO SECTIONS "OFF" RAMP

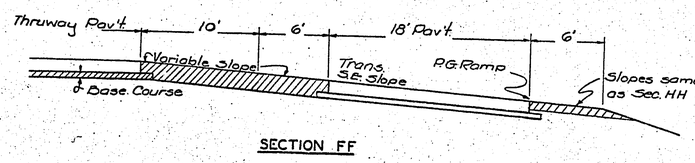
TYPICAL "OFF" RAMP SECTIONS
DECELERATION LANES



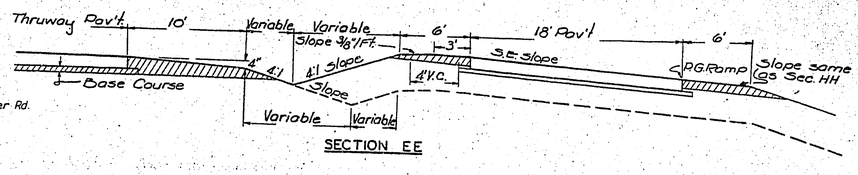
SECTION HH



SECTION GG

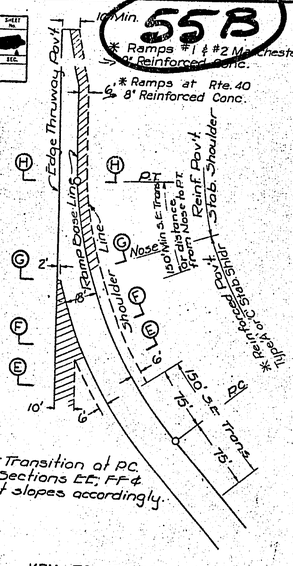


SECTION FF



SECTION EE

TYPICAL "ON" RAMP SECTIONS
ACCELERATION LANES



KEY TO SECTIONS "ON" RAMPS

NOTE:—
Where 3.E. Transition at P.C. overlaps Sections EE, FF & GG, adjust slopes accordingly.

GENERAL NOTE:
The calculated profile grade of ramps is shown on the profile sheet. For 3.E. slope see other drawings.

MISSOURI STATE HIGHWAY COMMISSION

TYPICAL SECTION FOR
"OFF"-"ON" RAMPS
(FOR DIAMOND INTERCHANGE AND OUTER RAMPS ONLY OF CLOVERLEAF INTERCHANGE)

APPROVED C.C. Twist
ENGR SURVEYS & PLANS

APPROVED S.H. Clarke
CHIEF ENGINEER

NEW	REVISED
1-61	6-1-61

SPECIAL SHEET 5 OF 7 MODIFIED

21.52

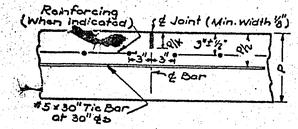
FINAL PLANS

583

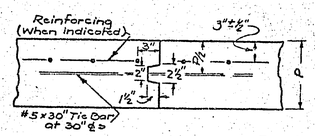
12 TO 1

FINAL PLANS

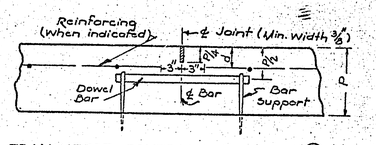
FINAL SURVEY NOTE BOOK — PLOTTED — TEMPLATE — AREAS CHECKED — NO.



LONGITUDINAL JOINT (L)
Tie Bars Required

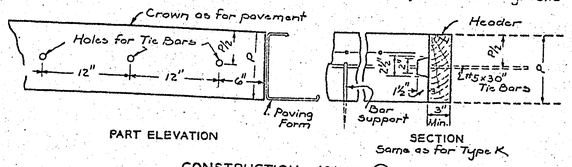


TONGUE AND GROOVE JOINTS (K) & (M)
Type (K) requires Tie Bar
Type (M) Constructed without Tie Bars

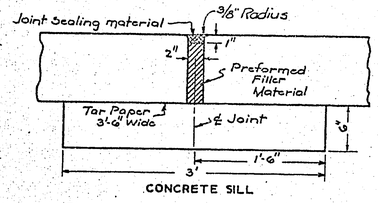


TRANSVERSE CONTRACTION JOINT (CI)
Dowels Required
For permissible types of Dowel supports (Baskets) See Std. Dwg. 48.12

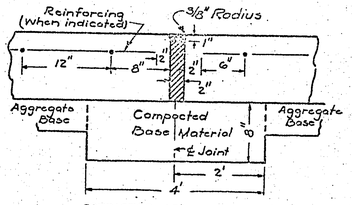
Header Plank for Construction Joint may be made from a single piece of 3" timber having a length equal to the width of the pavement, or it may be laminated. If laminated, it shall be not less than 3 inches thick and have not less than 3 plies, all of equal thickness. The length of the pieces in the outer plies shall be not less than 8 ft., and the inner plies not less than 4 ft, with all joints staggered ½ length. All plies shall be well nailed or bolted to other plies.



CONSTRUCTION JOINT (C)
Tie Bars Required



Required where Aggregate Base is not used. Sill to be extended 12" beyond each edge of the pavement.

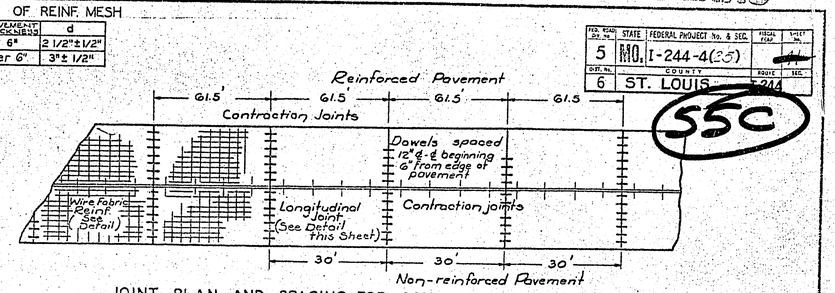


Required with Aggregate Base Sill to be extended 12" beyond each edge of the pavement

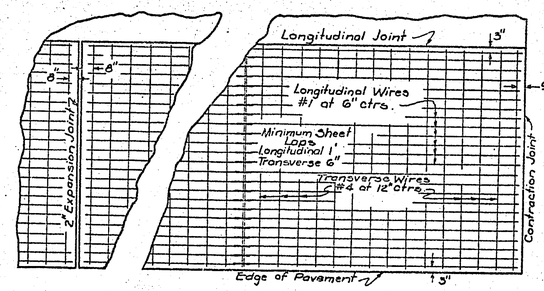
EXPANSION JOINTS (E)

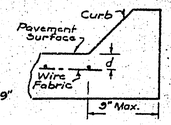
DEPTH OF REINF. MESH

PAVEMENT THICKNESS	d
6"	2 1/2" ± 1/2"
Over 6"	3" ± 1/2"



JOINT PLAN AND SPACING FOR CONTRACTION JOINTS



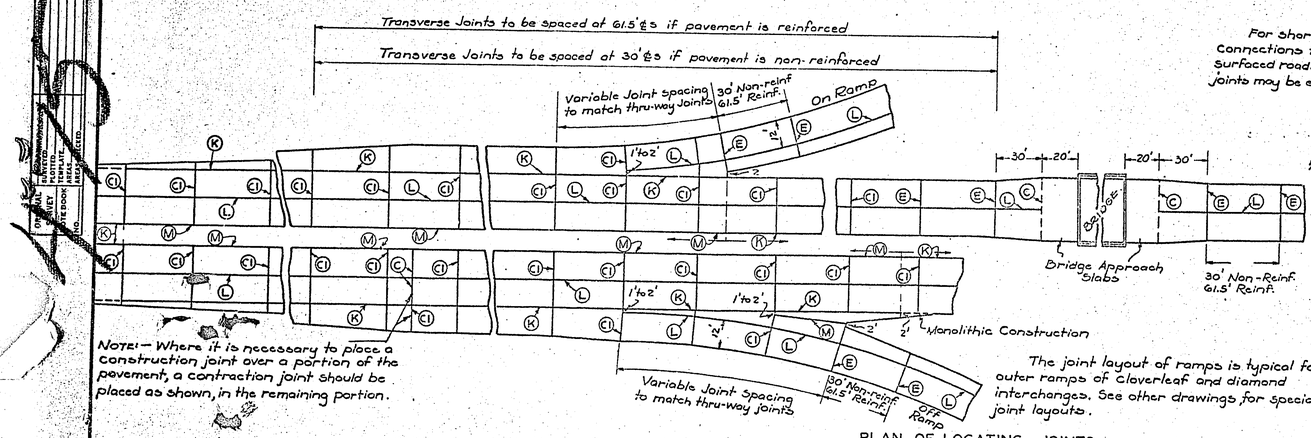


For Curb Details See Std. Dwg. 84.01

Weight of Wire Fabric Shall be 61# per 100 sq. Ft.

PLAN WIRE FABRIC REINFORCEMENT

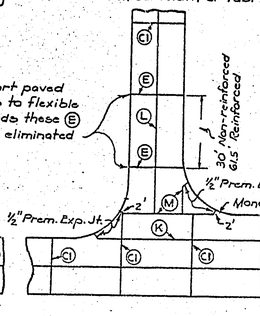
Length of sheets is 16'-0". Sheets may be increased to 21' lengths provided that positive proof is supplied by the contractor that anticipated paving progress and roadway curvature will permit placement.
Sheets shall be full width of pavement lane. When width of lane exceeds 13 feet, the Contractor shall make one longitudinal splice, using the most economical width of fabric. Edge distances and width of lap to be as shown.

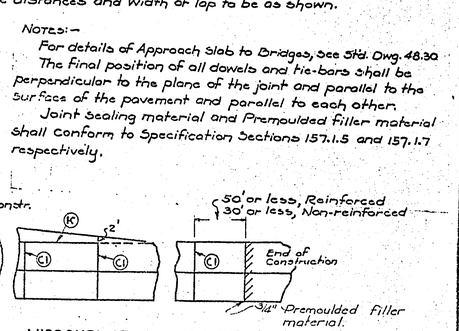


NOTE:— Where it is necessary to place a construction joint over a portion of the pavement, a contraction joint should be placed as shown, in the remaining portion.

The joint layout of ramps is typical for outer ramps of cloverleaf and diamond interchanges. See other drawings for special joint layouts.

PLAN OF LOCATING JOINTS





NOTES:—
For details of Approach Slab to Bridges, See Std. Dwg. 48.30
The final position of all dowels and tie-bars shall be perpendicular to the plane of the joint and parallel to the surface of the pavement and parallel to each other.
Joint Sealing material and Premoulded filler material shall conform to Specification Sections 157.1.5 and 157.1.7 respectively.

MISSOURI STATE HIGHWAY COMMISSION

APPURTENANCES FOR CONCRETE PAVEMENT

FOR USE WITH LIMESTONE COARSE AGGREGATE ONLY

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	I-244-4(35)		
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST. LOUIS			244

55C

APPROVED R. M. Hunter ENGR. SURVEYS & PLANS
APPROVED W. S. Hendricks CHIEF ENGINEER

NEW	REVISED			
1-1-61	3-1-62	2-1-63		

SP. SHEET 6 OF 7 MODIFIED 48.10

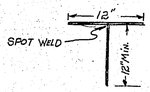
FINAL PLANS

583

12 TO 1

FINAL PLANS

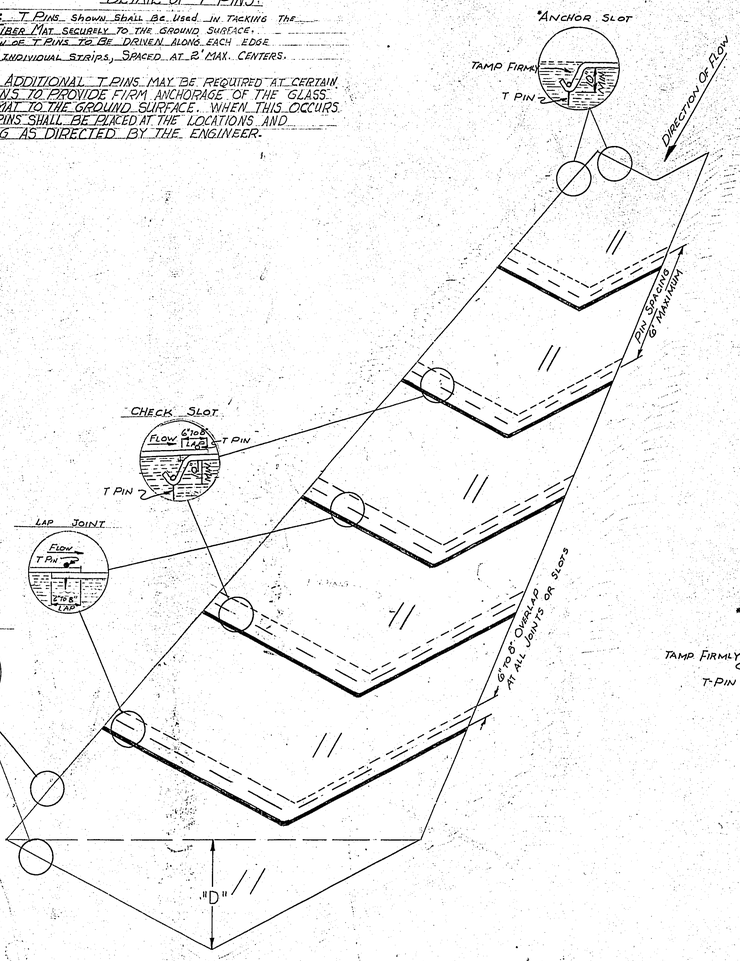
STATE	FED. AID PROJECT NO.	
5	MO. F-244-4 (25)274	56
6	St. Louis	F244



DETAIL OF T PINS.

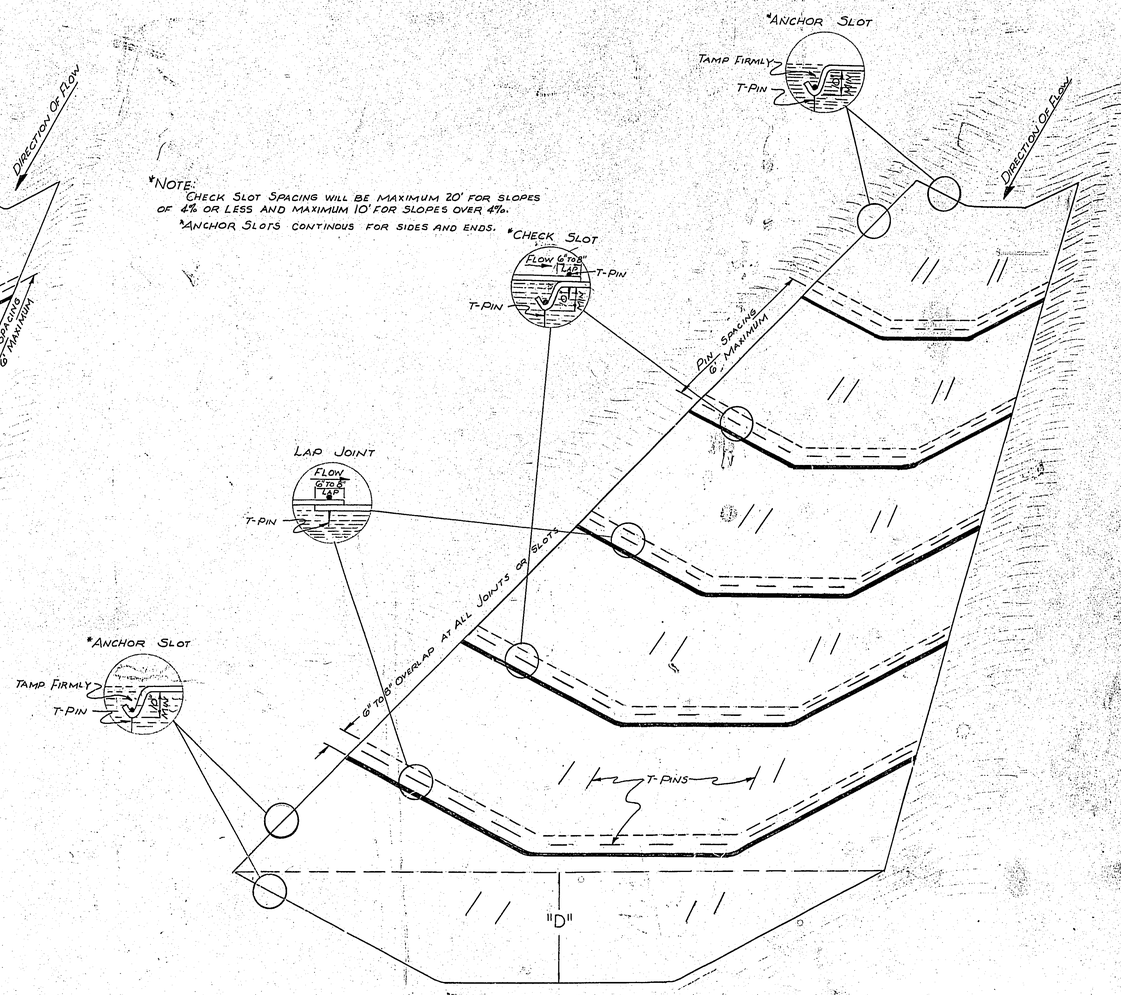
NOTE: T PINS SHOWN SHALL BE USED IN TACKING THE GLASS FIBER MAT SECURELY TO THE GROUND SURFACE. ONE ROW OF T PINS TO BE DRIVEN ALONG EACH EDGE OF THE INDIVIDUAL STRIPS, SPACED AT 2' MAX. CENTERS.

ADDITIONAL T PINS MAY BE REQUIRED AT CERTAIN LOCATIONS TO PROVIDE FIRM ANCHORAGE OF THE GLASS FIBER MAT TO THE GROUND SURFACE. WHEN THIS OCCURS THE T PINS SHALL BE PLACED AT THE LOCATIONS AND SPACING AS DIRECTED BY THE ENGINEER.



V BOTTOM DITCH

*NOTE: CHECK SLOT SPACING WILL BE MAXIMUM 20' FOR SLOPES OF 4% OR LESS AND MAXIMUM 10' FOR SLOPES OVER 4%.
*ANCHOR SLOTS CONTINOUS FOR SIDES AND ENDS.



FLAT BOTTOM DITCH

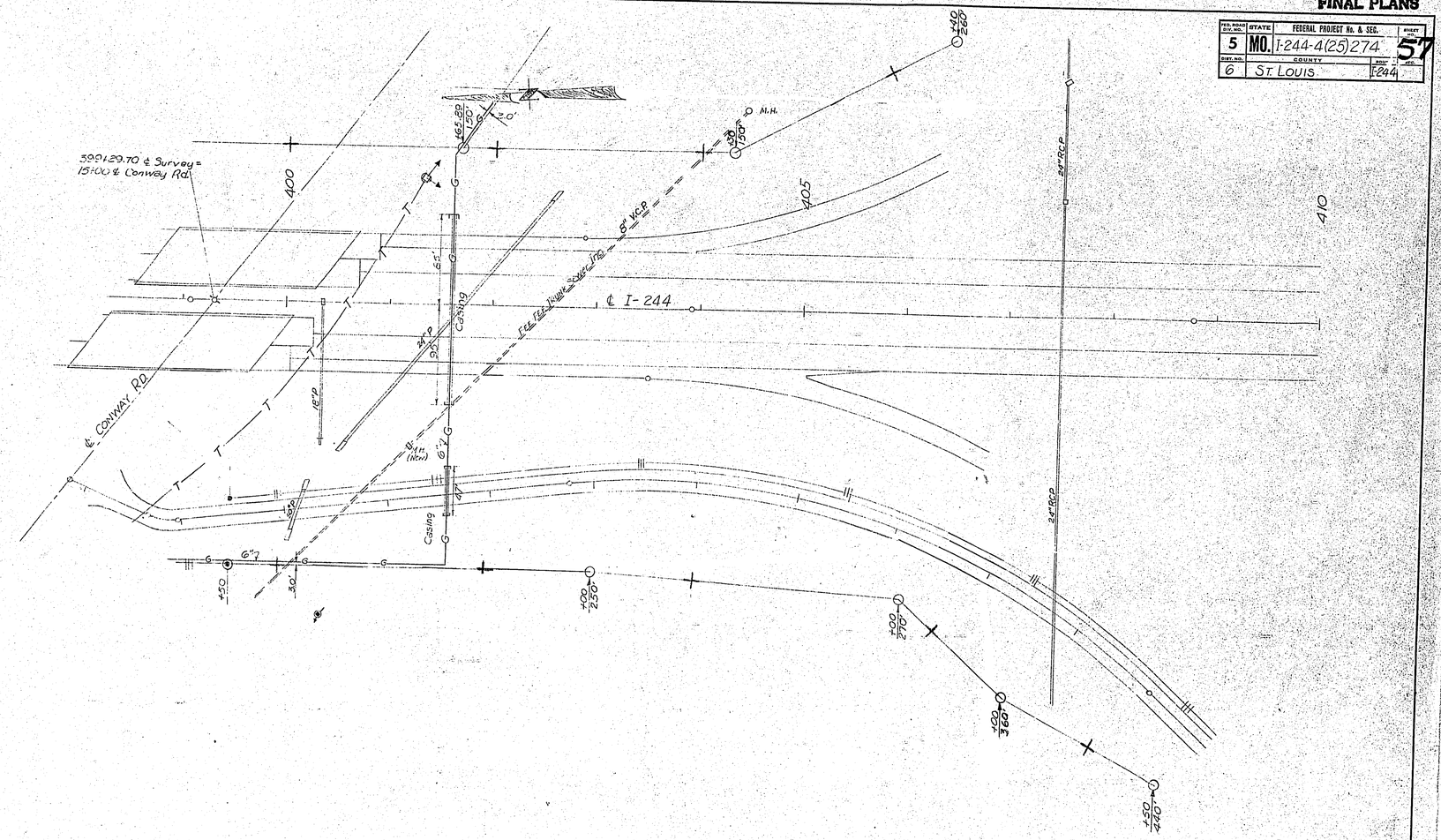
DETAILS FOR INSTALLATION OF GLASS FIBER MAT (TYPE I OR TYPE II)

FINAL PLANS

583

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	57
DIST. NO.	COUNTY		TOT. SHEETS
6	St. Louis	I-244	

FOR Utilities Stg. 395 - 400
See Conway Rd. Sheet



UTILITY SHEET No. 1

ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
AREAS CHECKED		

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
AREAS CHECKED		

583

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	58
DIST. NO.	COUNTY	ROUTE NO.	FED.
6	ST. LOUIS	I-244	

FINAL PLANS

FINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
NO.	

ORIGINAL SURVEY	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

ALGERS CONST. CO. 4"C. 7097' N. & BALLAS

HORSON 174608 3"C. 1107' N. & BALLAS

RICE 5"C 1271GI 760' N. W. R. Ballas

Abandon 8"Water To 20+00

Abandon 6"Gas To 23+00

6"Gas

8"Water

8"Waste, Along East Edge of N. Road

ST JOHNS HOSP. 74206 3"C 7019' N. BALLAS

F.H. S.I.

BUSWELL 19241 2"C. 602' E. & WILLIAMSBURG

≤ 180' Easement

2MCD

Ft. 8+73.5

Ft. 4+15

New 6"Gas

Abandon 6"Gas

Conway Rd

5971855 O.R.F. 17120 Conway Rd

6"Valve (PT) 12.5' E. W. R. 101½' S. N. R.

6"Valve 38 M.S. & Conc. Box 227' N. W. R. Ballas

8"Valve 10.5 M.S. & Conc. Box 227' N. W. R. Ballas

BEHLMANN 180861 3"C 285' N. W. R. BALLAS

WYCALL 180866 3"C 2683' N. W. R. BALLAS

1 Sty Br. Ho.

1½ Sty Br. Ho.

2 Sty Br. Ho.

Water Co to adjust existing Main where it conflicts with proposed Storm Sewers

	GV, WV, WM GM.
Meters, Valves	○
Overhead Power, New	—○—
Overhead Power, Existing	—■—
Overhead Telephone, New	—○—
Overhead Telephone, Existing	—●—
Underground Gas, New	——G——
Underground Gas, Existing	——G——
Underground Power, New	——P——
Underground Power, Existing	——P——
Underground Telephone, New	——T——
Underground Telephone, Existing	——T——
Underground Water, New	——W——W——
Underground Water, Exist.	——W——

CONWAY ROAD

UTILITY SHEET No. 2

FINAL PLANS

583

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	59
DIST. NO.	COUNTY	ROUTE	
6	St. Louis	I-244	

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED

Abandon 8"W

To Ballas Rd.

F.H. Valve 20' S.E.S. Slab 40TR 1231 V.L.W. ℄ Easement

F.H. Valve 22.5' S.E.S. Slab 40TR 610 W.W. ℄ Easement

Hall Lan I/C 29568 487 W.L. Clemens Esmt.

Kirchner ¾ C 89237 1289 W.L. ℄ Clemens Esmt.

8" Valve 19' S. Slab 40TR 1289 W.W. ℄ Easement

Frankland ¾ C 89687 938 W.L. Clemens Esmt.

Swinton ¾ C 89677 874 W.L. Clemens Esmt.

Stark ¾ Hodges 2282 W.L. Clemens Esmt.

Futrell I/C 89688 53' W.W. & Clemens Esmt.

6" Water 30' Off

6" Water 30 Off

6" W-30 Ft. Off

Contractor to extend Service Lead to New Main

Abandon Underground Telephone

Abandon Underground Telephone To Ballas Rd.

5' E.W.R. Easement 24' S. & S. Slab 40TR

4' E.W.R. Easement 38' S. & S. Slab 40TR

Abandon 6" W

Frankinburger ¾ C 89685 297 S.W. Lane 40TR

Hartigan ¾ C 89678 1894 W.L. Clemens Esmt. 1814 W.L.C.

10' Easement

F.H.

Abandon 6" Water

6" Water 30'

Abandon 2"

ROUTE 40 TR
UTILITY SHEET No. 3

FINAL PLANS

583

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	60
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-244	

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, HOUSE MOVE, AREAS CHECKED, NO. 4 MI, 4 SHEETS, DATE, BY

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, HOUSE MOVE, AREAS CHECKED, NOTE BOOK, NO., DATE, BY

480

583

ROUTE 40 TR
UTILITY SHEET No. 4

FINAL PLANS

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	61
DIST. NO.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	

ORIGINAL SURVEY — SURVEYED, PLOTTED, PROFILE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

FINAL SURVEY — SURVEYED, PLOTTED, PROFILE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

425 430 435 440 445 450 455

+70 200'

+75 150'

+40 165' RCP

+08.38 150'

℄ 15' Utility Easement for Union Electric Co.

+50 439'

24" RCP

2MCD

100'

6" Water

Encasement

OUTER ROADWAY

+55 ~ 234' RCP

+00 262'

Stone

+31 200' ~ 195'

Garage Stable

+10 200' ~ 195'

+08.38 150'

+85.28 200'

18" RCP

+00 233'

2 Sty Stucco Ho.

Stucco Garage

15' Utility Easement for Union Electric Co.

Gas Meter Underground Tank

Poles North of 451+65 Are ½ to Set 5'E of R/W

Poles Set S of 451+65 Will Vary Accd to Change in R/W Line

1 Sty Br Ho

+50 185'

+85.36 185'

+00 205'

18" RCP

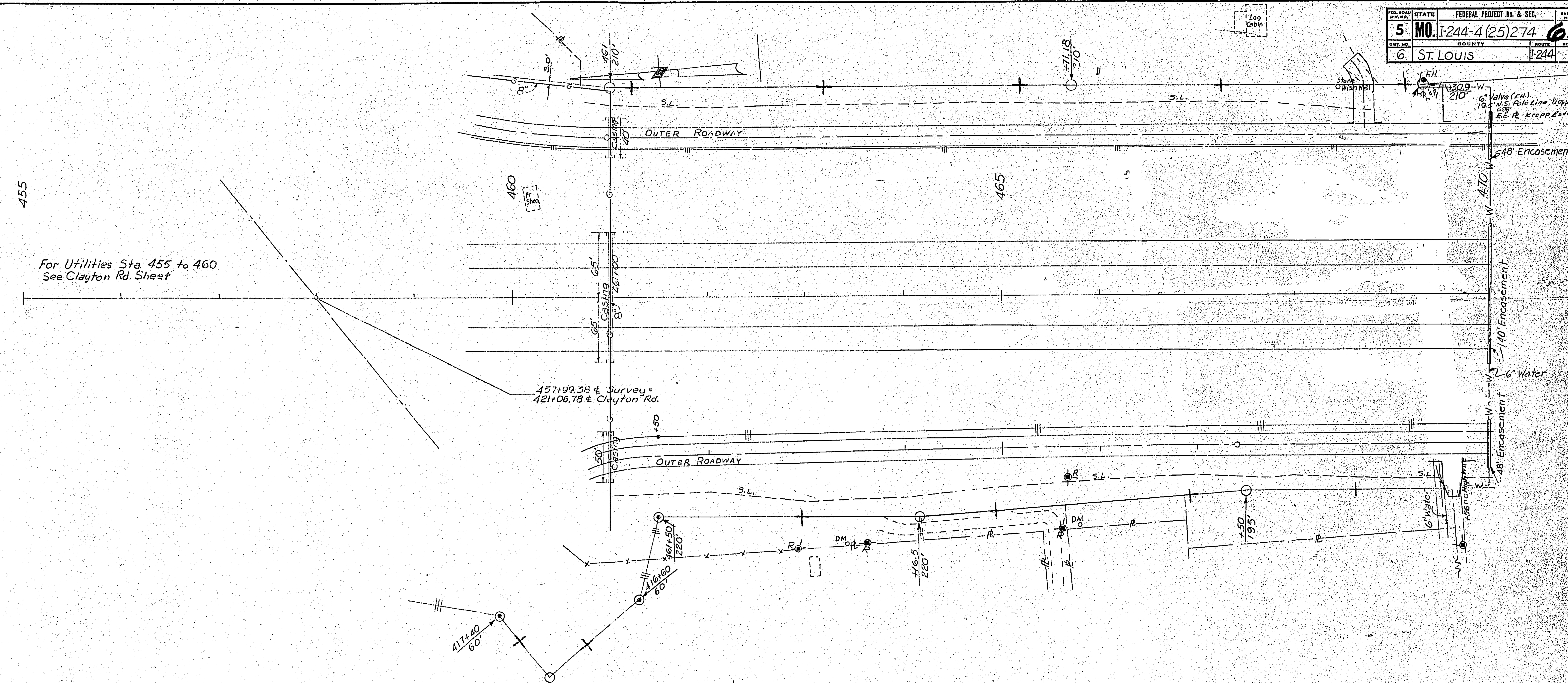
180'

UTILITY SHEET No. 5

FINAL PLANS

583

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	62
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-244	



ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

FINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

482

UTILITY SHEET No.6

FINAL PLANS

583

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	65
DIST. NO.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	

FINAL SURVEY — DATE; BY; SURVEYED; PLOTTED; PLANIMETER; AREAS; AREAS CHECKED; NOTE BOOK; NO.

ORIGINAL SURVEY — DATE; BY; SURVEYED; PLOTTED; PLANIMETER; AREAS; AREAS CHECKED; NOTE BOOK; NO.

Match Line

428+00

Schnuck's 8"C 2429.9 8'C 250 W. of Kropp

6" Valve 8'S.E. of Clayton Rd. 7'N.E. of Kropp SEC. LINE

8" Water

6" Valve 14'W. of Kropp 68'S. of Clayton

6" Water

3½" CWD

9MCD

6" Valve 2'N.W. of Kropp 80'S. of Clayton

Manhole Mud-Gas Line

2 Sty. Br. Ho.

Colonna 58189 3/4"C 130' E. of Kropp

Remarked

8" Gas

Existing T.P.'s

418+00

Temporary Bypass

457+93.38 I-244 = 421+06.78 Clayton Rd.

Conduit to be extended to these points at approx. time Contr. installs conduit on Bridge

Terminate Underground Power

Stone

Steps

1501.65

8" Gas

8" Water

Casing

I-244

Temporary Easement 95'

Casing

CLAYTON ROAD

415+00 to 427+00 Abandon existing 8" water line

140' Easement

16" Water

Temp.

Catch Basin

423+45.36 Bk. = 423+45.36 Ahd.

15' Utility Easement - U.E.

Terminate Underground Power

3½" CWD

423+33.5 = 456+31.80 Ahd. L.I.

Ex. 57' R/W

Pershall 95409 1"C 176' W. of Glennmard

Holland 92253 1"C 31' W. of Glennmore

6" Valve 25' S.W. of Glennmard 105' S. of Clayton

6" Water

8" Water

8" Gas

LONG MEADOW STREET

1 Sty. Fr. Ho.

1 Sty. Br.

Williams 9548 6"C 160' E. of Glennmard

428+10 2.36° Rt.

Rt. 7 20" Water

45° Enlargement

16" Water

Match Line

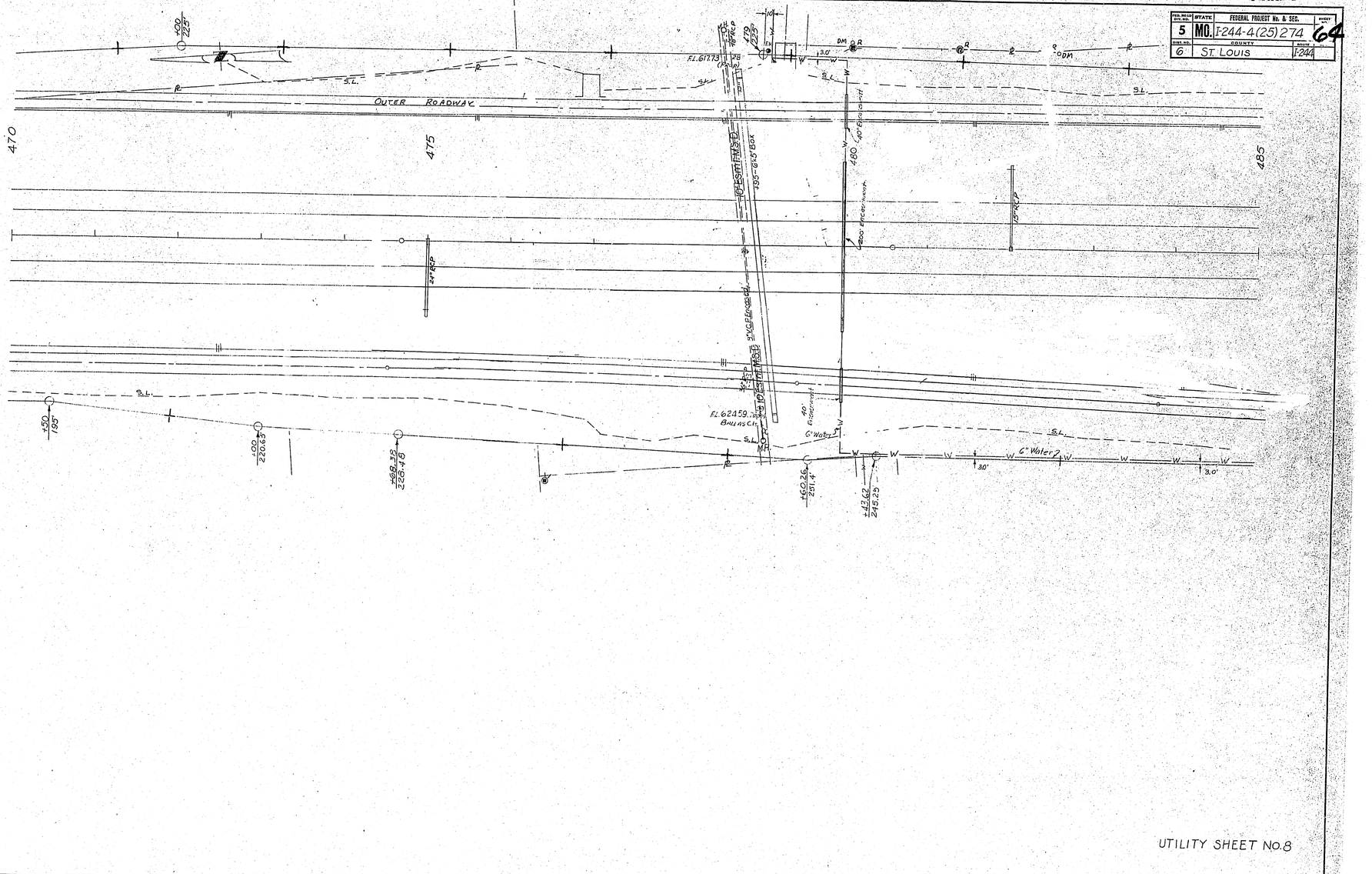
CLAYTON ROAD

UTILITY SHEET No. 7

583

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET
5	MO.	I-244-4(25)274	64
DIST. NO.	COUNTY		ROUTE
6	ST. LOUIS		I-244



UTILITY SHEET No. 8

FINAL PLANS

ORIGINAL SURVEY
SURVEYED
PLOTTED
TRANSLATE
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

FINAL SURVEY
SURVEYED
PLOTTED
TRANSLATE
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

484

583

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-244-4(25)274	65
DIST. NO.	COUNTY	ROUTE	SEC.
6	St. Louis	I-244	

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURFACE
NOTE BOOK
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

Outer Roadway
Section Line
S.L.
18" RCP
1 Sty Fr Ho.
3.0' - 6" Water
485
490
495
500
505

UTILITY SHEET No. 9

583

LIST OF STANDARD PLANS 1 of 2

PROJ.	SHEET
I-244-4(25)	66
CO. ST LOUIS	RTE. (I-244)

72.04	6of9	C9-1-62)
72.04	7of9	C1-1-63)
72.04	8of9	C1-1-63)
72.04	9of9	NEW-C7-1-62)
72.07		C8-1-63)
72.09	1of2	C9-62)
72.09	2of2	C9-62)
72.10	1of8	C3-11-64)
72.10	2of8	
72.10	3of8	
72.10	4of8	
72.10	5of8	
72.10	6of8	
72.10	7of8	
72.10	8of8	
72.60	1of7	C3-11-64)
72.60	2of7	
72.60	3of7	
72.00	4of7	
72.60	5of7	
72.60	6of7	
72.60	7of7	
80.40		C3-10-61)
80.42		C10-30-61)
80.46		C1-1-61)
80.47		C3-1-62)
80.48		C1-1-61)
80.50		C3-1-62)
82.00		C1-1-64)
84.01		C11-1-63)
84.03		C6-1-61)
85.00		C6-62)
86.00		C6-1-61)
86.10		C2-15-61)
87.00		C1-1-61)
87.10		C2-1-63)
87.20		C2-11-64)
89.00		C7-63)
21.51		C5-1-62)
21.40		
21.60		C1-1-61)
21.70		
48.12		C3-1-63)
48.30		C11-1-63)
53.20	1of3	C9-15-61)
53.20	2of3	C9-15-61)
53.20	3of3	C9-13-61)
53.24		C10-6-61)
53.40		C1-1-61)
53.41		C1-1-61)
53.52		DRAWN-C4-60)
54.00		
61.08		C2-1-64)
70.08		C4-1-64)
70.01		NEW-C4-1-64)
71.00		C8-63)
71.01		C8-63)
71.03		C8-63)
71.04		NEW-C6-62)
71.07	1of2	" C8-63)
71.07	2of2	C2-64)
72.00	1of5	C6-19-61)
72.00	2of5	C6-19-61)
72.00	3of5	C6-19-61)
72.00	4of5	C6-19-61)
72.00	5of5	C6-19-61)
72.01	1of5	C1-1-64)
72.01	2of5	C10-3-63)
72.01	3of5	C8-15-62)
72.01	4of5	C8-15-62)
72.01	5of5	C8-15-62)
72.02	1of11	C1-1-63)
72.02	2of11	C8-1-63)
72.02	3of11	C9-1-62)
72.02	4of11	C1-1-63)
72.02	5of11	C1-1-64)
72.02	6of11	C1-1-64)
72.02	7of11	C1-1-63)
72.02	8of11	C1-1-63)
72.02	9of11	C1-1-63)
72.02	10of11	C1-1-63)

486

583

LIST OF STANDARD PLANS

2 of 2

PROJ.	SHEET
I-244-4(35)	67
CO. ST LOUIS	RTE. I-244

72.02	11 of 11	(1-1-64)
72.03	1 of 5	(8-1-63)
72.03	2 of 5	(9-1-62)
72.03	3 of 5	(8-1-64)
72.03	4 of 5	(8-1-64)
72.03	5 of 5	(8-1-63)
72.04	1 of 9	(3-1-64)
72.04	2 of 9	(9-1-62)
72.04	3 of 9	(1-1-63)
72.04	4 of 9	(1-1-63)
72.04	5 of 9	(1-1-64)

487

583

SP-1

FINAL PLANS

DESIGN DESIGNATION

A.D.T. =1984=
A.D.T. =2004= 133,600 - 146,500

NB; D = 53% (AM) ; SB ; D = 45% (AM)
T = 8%
V = 55 M.P.H.

FULLY LIMITED ACCESS HIGHWAY

THIS SHALL BE A FULLY LIMITED ACCESS HIGHWAY BETWEEN STA AND STA . NO ABUTTING OWNER SHALL HAVE THE RIGHT OF DIRECT ACCESS TO SAID HIGHWAY OR ITS RIGHT-OF-WAY EXCEPT THAT ACCESS WILL BE PERMITTED TO ANY ADJACENT OUTER ROADWAY OR SERVICE ROAD TO WHICH ACCESS IS NOT SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING "NO RIGHT OF ACCESS" AS SHOWN ON THE PLANS. NO ACCESS WILL BE PERMITTED FROM OUTER ROADWAYS AND SERVICE ROADS TO THROUGHWAYS EXCEPT ALONG ROUTES CONSTRUCTED FOR THAT PURPOSE. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.

- BEGINNING AND ENDING OF LIMITED ACCESS
- LIMITED ACCESS
- NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

NO ADDN. R/W REQUIRED FOR THIS PROJECT.

CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER

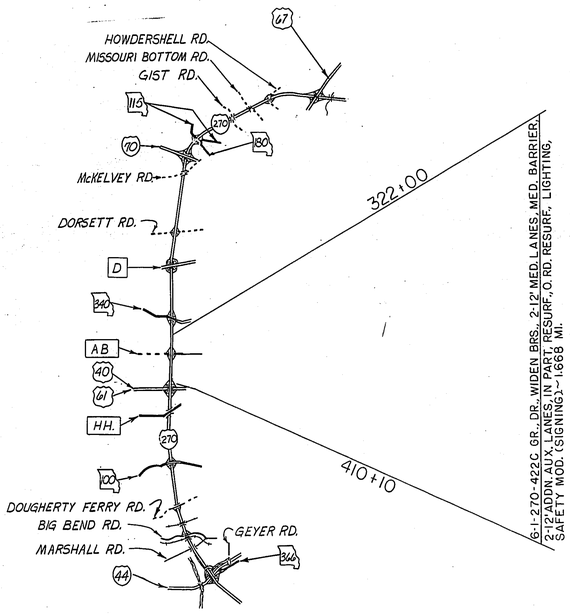
NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT

AWARDED
AUG 3 1984
MISSOURI HIGHWAY & TRANSPORTATION DEPT.



SCALE
1 0 1 2 3 4 MILES

COUNTY ST. LOUIS
ROUTE I-270
PROJECT IR-270-5(212)

JOB NO. 6-I-270-422C

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL SECTIONS (3 SHEETS)	2
SUMMARY (2 SHEETS)	2-A
SUMMARY (9 SHEETS)	2-B
PLAN-PROFILE	3-5
REFERENCE POINTS	1
SPECIAL SHEETS	6-25
LIGHTING	26-38
SIGNING	39-49
CULVERT SECTIONS	50-99
BRIDGE DRAWINGS	100
STANDARD PLANS INDEX	1-29
CROSS SECTIONS	
COMPUTER DATA	

LENGTH OF PROJECT

END OF PROJECT	STA. 410+10
BEGINNING OF PROJECT	STA. 322+00
APPARENT LENGTH	8810 FEET
EQUATIONS AND EXCEPTIONS 206+97.28 BK. = 207+02.82 AH.	
TOTAL CORRECTIONS	- 5.54 FEET
NET LENGTH OF PROJECT	8804.46 FEET
STATE LENGTH	1.668 MILES
FEDERAL LENGTH	1.668 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

CHIEF ENGINEER — DATE

STATE OF MISSOURI
ROBERT N. HUNTER
NUMBER E-7051
REGISTERED PROFESSIONAL ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ENGINEER — DATE

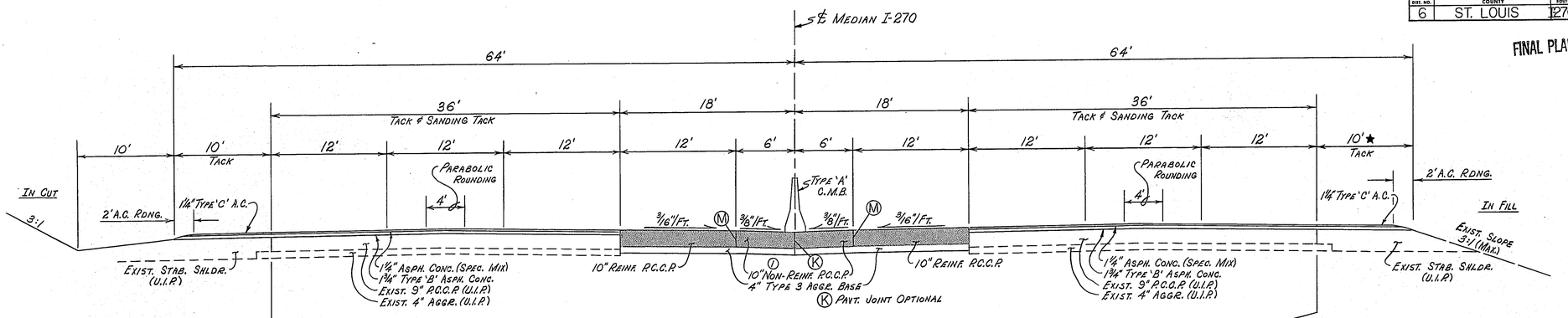
FINAL PLANS

200

1167 24 TO 1

FED. ROAD SYS. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(2/2)	2
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I270	

FINAL PLANS



TYPICAL SECTION ON TANGENT

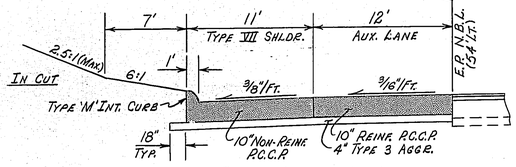
STA. 322+00 TO STA. 356+56.12
STA. 366+69.45 TO STA. 410+10

NOTE: ASPH. CONC. (SPECIAL MIX) IS EITHER~
ALT. A (BLAST FURNACE SLAG; MIN. AGGR.) OR
ALT. B (PORPHYRY; MIN. AGGR.)
MATCH EXIST. X-SLOPES, PVM'T. & SHLDRS.

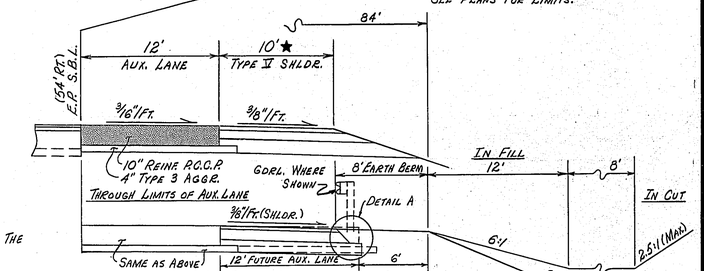
Ⓘ OMIT LOAD TRANSFER DEVICES AT C/ JOINT IN P.C.C. SHOULDER

NOTE: 1) PROVIDE OIL OR GREASE COATING ON AT LEAST ONE Ⓜ JOINT TO FACILITATE SLIPPAGE OF MEDIAN PAVEMENT. WHETHER OR NOT THE OPTIONAL JOINT IN THE MEDIAN PAVEMENT IS USED, CUT THE CONTRACTION TO MATCH CONTRACTION JOINT IN NEW 12' LANE. (EITHER SIDE)
2) SEE STANDARD PLANS & SPECIAL SHEETS FOR CONST. JOINT DETAILS NOT SHOWN.
3) Ⓜ PAVT. JOINTS MAY BE SUBSTITUTED FOR Ⓚ PAVT. JOINTS, WHERE SHOWN, SHOULD THE CONTRACTOR ELECT TO SLIP FORM THE PAVEMENT.

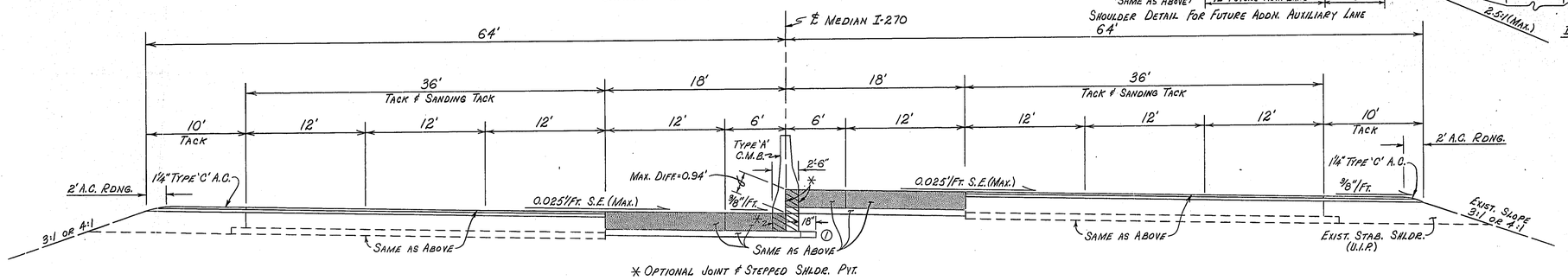
★ 12' WIDE WHERE GUARD RAIL IS USED. SEE PLANS FOR LIMITS.



THROUGH LIMITS OF AUX. LANE
SEE PLANS FOR LIMITS



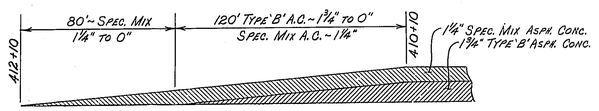
SHOULDER DETAIL FOR FUTURE ADDN. AUXILIARY LANE



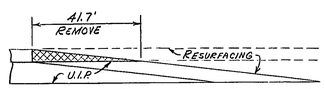
✳ OPTIONAL JOINT & STEPPED SHLDR. PVT.

TYPICAL SECTION ON SUPERELEVATION

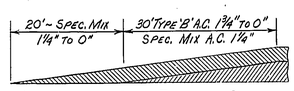
STA. 356+56.12 TO STA. 366+69.45



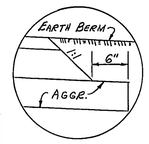
200' ASPHALTIC CONCRETE DEPTH TRANSITION~STA. 410+10 TO STA. 412+10



EXIST. A.C. DEPTH TRANS.~STA. 322+00-323+00-N.B. & S.B.



50' ASPH. CONC. DEPTH TRANS. ON RAMPS



DETAIL A

FINAL PLANS
TYPICAL SECTIONS ROUTE I-270

SHEET 1 OF 3

FINAL SURVEY NOTE BOOK	SURVEYED PLOTTED TURNED LAID OUT AREAS CHECKED	BY	DATE
NO.			12-82

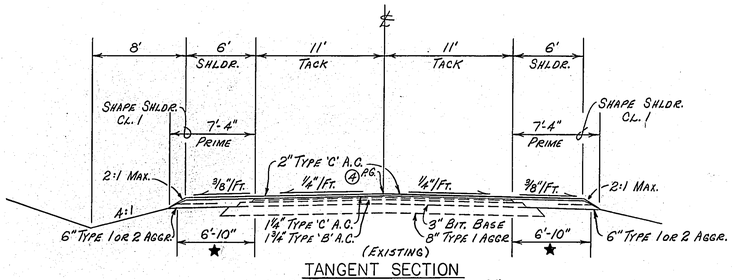
201

363

1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	2
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	270	

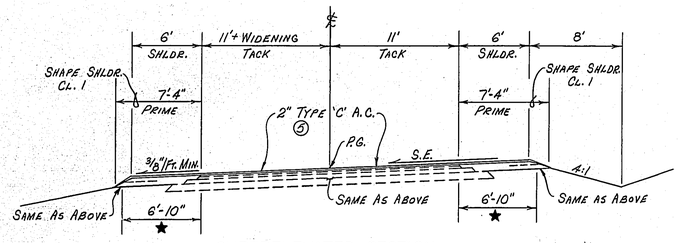
FINAL PLANS



TANGENT SECTION

EAST OUTER ROADWAY (EMERSON RD.)

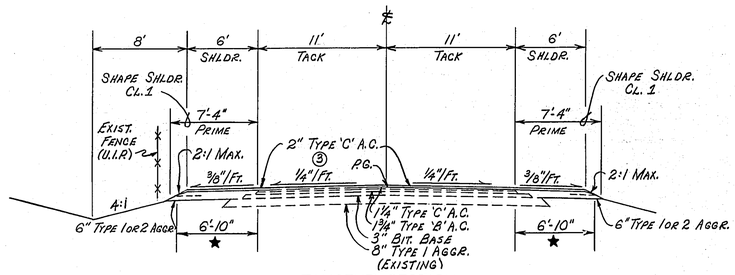
④ 0" TO 2" TYPE 'C' ASPH. CONC. DEPTH TRANS. ~ STA. 333+50 TO STA. 334+50



SUPERELEVATED SECTION

EAST OUTER ROADWAY (EMERSON RD.)

⑤ 2" TO 0" TYPE 'C' ASPH. DEPTH TRANS. ~ STA. 355+41 TO STA. 356+41

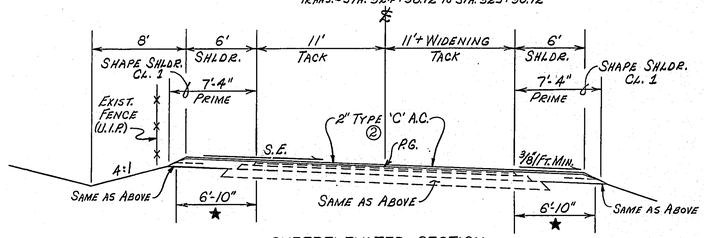


TANGENT SECTION

WEST OUTER ROADWAY

③ 0" TO 2" TYPE 'C' ASPH. CONC. DEPTH TRANS. ~ STA. 324+98.72 TO STA. 325+98.72

★ PAY LIMIT FOR 6" TYPE 1 OR 2 AGGR.



SUPERELEVATED SECTION

WEST OUTER ROADWAY

STA. 325+98.72 TO STA. 354+45

NOTE: 2" TYPE 'C' A.C. TO FOLLOW EXIST. S.E.

② 2" TO 0" TYPE 'C' ASPH. CONC. DEPTH TRANS.

STA. 354+45 TO STA. 355+45

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TRIANGULATION		
	AREAS		
	AREAS CHECKED		

FINAL STRUCTURE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		8-2-83
NO.	TRIANGULATION		
	AREAS		
	AREAS CHECKED		

2202

3654

FINAL PLANS

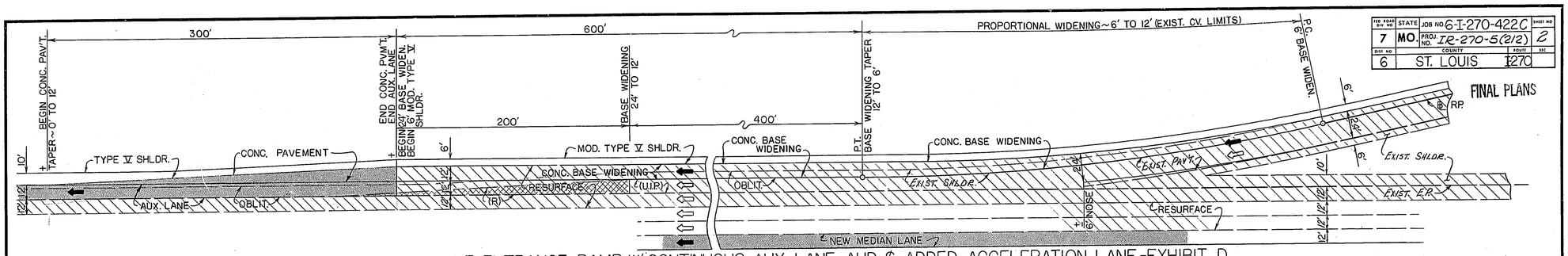
TYPICAL SECTIONS ROUTE I-270

SHEET 2 OF 3

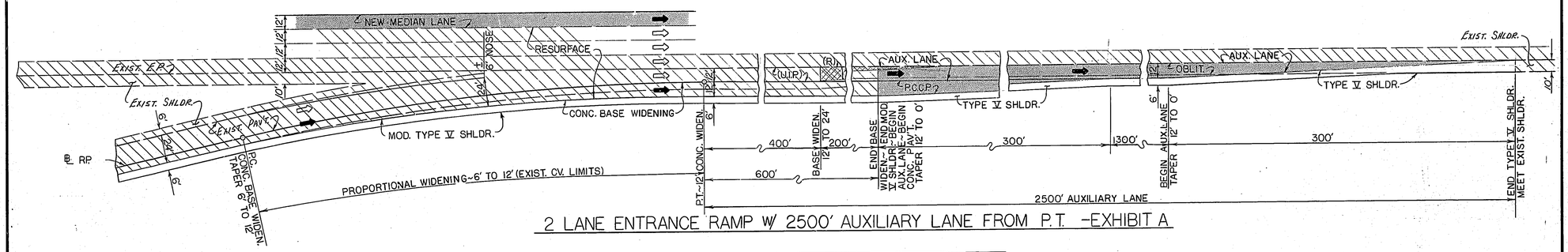
1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO
7	MO.	PROJ. NO. IR-270-5(212)	2
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	270	

FINAL PLANS



2 LANE ENTRANCE RAMP W/ CONTINUOUS AUX. LANE AHD. & ADDED ACCELERATION LANE-EXHIBIT D



2 LANE ENTRANCE RAMP W/ 2500' AUXILIARY LANE FROM P.T. -EXHIBIT A

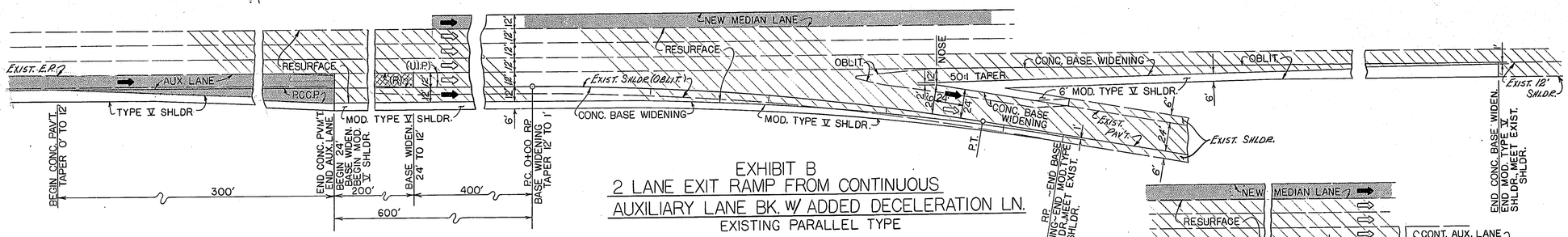
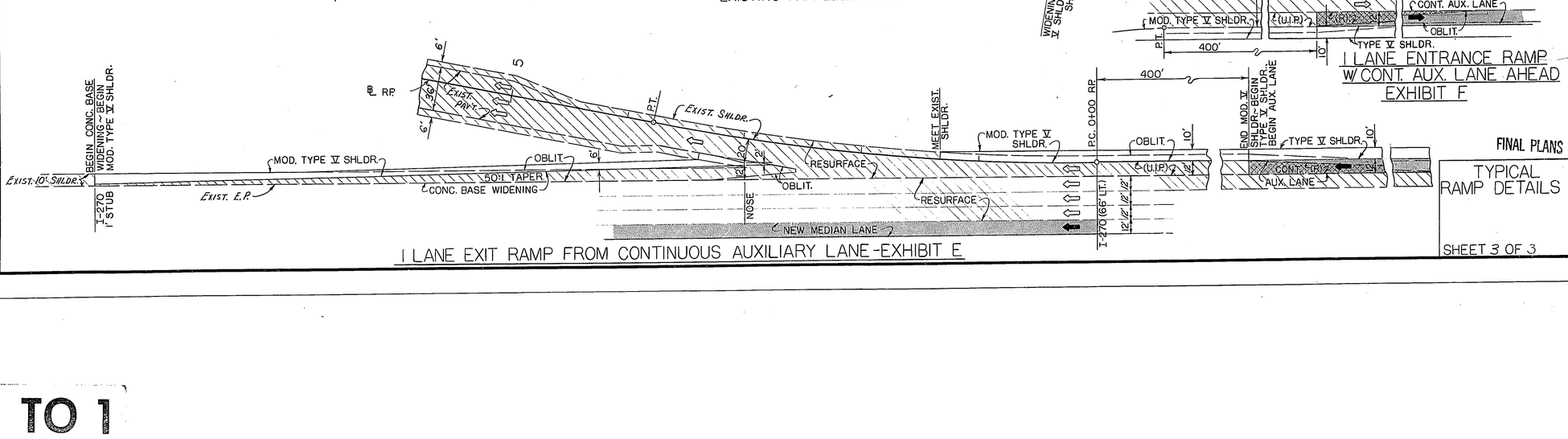


EXHIBIT B
2 LANE EXIT RAMP FROM CONTINUOUS AUXILIARY LANE BK. W/ ADDED DECELERATION LN.
EXISTING PARALLEL TYPE



I LANE ENTRANCE RAMP W/ CONT. AUX. LANE AHEAD
EXHIBIT F

I LANE EXIT RAMP FROM CONTINUOUS AUXILIARY LANE-EXHIBIT E

FINAL PLANS

TYPICAL RAMP DETAILS

SHEET 3 OF 3

DATE	BY	
12-22	R.K.	FINAL SURVEY
		SURVEYED
		PLOTTED
		TYPICAL SECTIONS
		AREAS
		AREAS CHECKED
		NOTE BOOK
		NO.

DATE	BY	
		ORIGINAL SURVEY
		SURVEYED
		PLOTTED
		TYPICAL SECTIONS
		AREAS
		AREAS CHECKED
		NOTE BOOK
		NO.

203

365

1167 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO.	SHEET
MO.	G-I-270-422C	2A
DIST. NO.	PROJECT NO. IR-270-5(212)	ROUTE
6	COUNTY ST LOUIS	I-270

SHEET 1 OF 2

FINAL PLANS

ITEM	DESCRIPTION		UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	(14)	LUMP SUM	1
202-99.95	REMOVAL OF TEMPORARY ASPHALTIC CONCRETE DEPTH TRANSITION	(14)	SQ. YD.	0
203-10.00	CLASS A EXCAVATION	(1)	CU YD	4066.3
203-60.00	COMPACTING EMBANKMENT		CU YD	31,479
205-13.00	OVERHAUL (STATION)		STA YD	1,711,400
206-30.00	CLASS 3 EXCAVATION		CU YD	362.3
213-10.00	SHAPING SHOULDERS CLASS 1		MILE	2.02
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE) 60-70 OR AC-20	(2)	TON	238.5
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	(3)	TON	4912
304-00.63	TYPE 1 OR TYPE 2 AGGREGATE FOR BASE (6 IN. THICK)		SQ YD	8,089
304-03.43	TYPE 3 AGGREGATE FOR BASE (4 IN. THICK)		SQ YD	40886
304-04.73	TYPE 4 AGGREGATE FOR BASE (7 IN. THICK)		SQ YD	13,308
304-04.93	TYPE 4 AGGREGATE FOR BASE (9 IN. THICK)		SQ YD	6,445
309-13.09	CONCRETE BASE WIDENING (9 IN. NON-REINFORCED)		SQ YD	1,557.7
403-10.11	ASPHALT CEMENT (ASPHALTIC CONCRETE) 60-70 OR AC-20	(4)	TON	547.1
403-70.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE B MIX)	(5)	TON	6844
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	(6)	TON	4817
403-90.20	ALT. A, ASPHALT CEMENT (ASPHALTIC CONC) 60-70 OR AC-20 (LIMESTONE-PORPHYRY MIX)	(7)	TON	273.7
403-90.22	ALT. A, MINERAL AGGREGATE (ASPHALTIC CONCRETE) (LIMESTONE-PORPHYRY MIX	(8)	TON	5241
403-90.61	ALT. B, ASPHALT CEMENT (ASPHALTIC CONC) 60-70 OR AC-20 (LIMESTONE-STEEL SLAG MIX)	(9)	TON	0
403-90.62	ALT. B, MINERAL AGGREGATE (ASPHALTIC CONCRETE) (LIMESTONE-STEEL SLAG MIX)	(10)	TON	0
407-10.05	TACK COAT	(11)	GALLON	7060
407-20.00	SANDING TACK	(12)	CU YD	0
408-10.10	PRIME-LIQUID ASPHALT RC 70 OR MC 30.	(13)	GALLON	1,940
502-11.10	CONCRETE PAVEMENT (10 IN. NON-REINF)		SQ YD	11,639.6
502-12.10	CONCRETE PAVEMENT (10 IN. REINFORCED)		SQ YD	35,027.1
503-10.00	BRIDGE APPROACH SLAB		SQ YD	665.6
601-10.00	FIELD LABORATORIES		LUMP SUM	1
604-40.11	PIPE COLLAR, TYPE A		EACH	3
604-40.12	PIPE COLLAR, TYPE B		EACH	2
605-10.10	CLASS A UNDERDRAIN		LIN FT	343
606-10.10	GUARD RAIL TYPE A		LIN FT	200
606-22.00	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)		EACH	4
606-30.00	TERMINAL SECTION		EACH	3
606-62.00	GUARD RAIL BEAM		EACH	0
606-63.00	GUARD RAIL POST		EACH	62
606-99.20	GUARD RAIL BLOCK		EACH	62
606-99.50	GUARD RAIL (RELOCATED)	(14)	LIN. FT.	1163

ITEM	DESCRIPTION		UNIT	QUANTITY
606-99.80	TERMINAL SECTION (RELOCATED)	(14)	EACH	4
609-10.41	CONCRETE GUTTER TYPE A		LIN FT	27
609-10.60	PAVED DITCH		SQ YD	2393.6
609-20.13	INTEGRAL CURB TYPE M		LIN FT	400
609-40.10	DRAIN BASIN		EACH	4
609-70.00	ROCK LINING		CU YD	28
611-60.10	CONCRETE SLOPE PROTECTION		SQ YD	1452.2
612-99.96	TEMPORARY IMPACT ATTENUATION DEVICE	(14)	EACH	9
612-99.97	RELOCATING TEMPORARY IMPACT ATTENUATION DEVICE	(14)	EACH	14
613-20.00	PAVEMENT REPAIR (CONCRETE)		SQ YD	108.1
614-10.10	GRATES AND BEARING PLATES		POUND	12,560
614-30.11	MANHOLE FRAME AND COVER, TYPE 1-B		EACH	2
616-10.05	CONSTRUCTION SIGNS		SQ FT	267.3
616-10.10	RELOCATED SIGNS		SQ FT	7.18
616-10.20	DRUMS		EACH	150
616-10.40	FLASHING ARROW PANEL		EACH	4
616-10.47	TYPE III OBJECT MARKER		EACH	150
616-10.52	WARNING LIGHT, TYPE B		EACH	24
617-10.00	CONCRETE MEDIAN BARRIER, TYPE A		LIN FT	8,459
617-50.00	TEMPORARY TRAFFIC BARRIER	(14)	LIN FT	6,100
617-50.10	RELOCATING TEMPORARY TRAFFIC BARRIER	(14)	LIN FT	49.20
618-10.00	MOBILIZATION		LUMP SUM	1
621-04.13	TEMPORARY PAVEMENT STRIPING 4IN. INTERMITTENT WHITE		100 FT.	68.4
621-04.14	TEMPORARY PAVEMENT STRIPING 13 IN. SOLID WHITE		100 FT.	7.4
621-04.33	TEMPORARY PAVEMENT STRIPING 13 IN. SOLID YELLOW		100 FT.	30.4
621-10.00	PAVEMENT STRIPE REMOVAL		100 FT	64.9
621-99.11	TEMPORARY PAVEMENT STRIPING 4 IN. SOLID WHITE (TAPE)		100 FT.	217.9
621-99.15	TEMPORARY PAVEMENT STRIPING 4 IN. INTERMITTENT WHITE (TAPE)		100 FT.	54.5
621-99.21	TEMPORARY PAVEMENT STRIPING 4 IN. SOLID YELLOW (TAPE)		100 FT.	192
621-99.99	PAVEMENT STRIPE REMOVAL (TAPE)		100 FT.	440
622-10.00	TEMPORARY PAVEMENT MARKING		MILE	3.4
725-10.21	21 IN. CORRUGATED GALVANIZED METAL PIPE		LIN FT	100
725-10.24	24 IN. CORRUGATED GALVANIZED METAL PIPE		LIN FT	66
726-13.12	12 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT		LIN FT	182
726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT		LIN FT	137
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT		LIN FT	1,515
726-13.21	21 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT		LIN FT	2,710
726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT		LIN FT	515

ITEM	DESCRIPTION		UNIT	QUANTITY
726-13.30	30 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT		LIN FT	29
726-99.13	13 IN. CLASS III JACKED REINFORCED CONCRETE PIPE CULVERT (GASKET TYPE)	(14)	LIN. FT.	65
726-99.21	21 IN. CLASS III JACKED REINFORCED CONCRETE PIPE CULVERT (GASKET TYPE)	(14)	LIN. FT.	56
726-99.24	24 IN. CLASS III JACKED REINFORCED CONCRETE PIPE CULVERT (GASKET TYPE)	(14)	LIN. FT.	74
731-00.48	PRECAST CONCRETE MANHOLE - 48 IN.		FT	5
731-00.60	PRECAST CONCRETE MANHOLE - 60 IN.		FT	5
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X 2 FT		FT	103
731-10.42	PRECAST CONCRETE DROP INLET 4 FT X 2 FT		FT	12
731-10.53	PRECAST CONCRETE DROP INLET 5 FT X 3 FT		FT	19
732-00.15	15 IN. FLARED END SECTION		EACH	1
732-00.18	18 IN. FLARED END SECTION		EACH	1
732-00.21	21 IN. FLARED END SECTION		EACH	1
732-00.24	24 IN. FLARED END SECTION		EACH	6
732-00.30	30 IN. FLARED END SECTION		EACH	2
802-40.00	TYPE 4 MULCH		ACRE	13.3
803-10.00	SODDING		SQ YD	6661
805-10.00	SEEDING	(14)	ACRE	13.3
	HIGHWAY LIGHTING			
901-42.00	CONDUIT, 2 IN. RIGID STEEL, PUSHED		LIN FT	350
901-50.20	TRENCHING TYPE II		LIN FT	2,215
901-61.01	CONCRETE PULL BOX TYPE A		EACH	3
901-74.07	1 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG		LIN FT	2,790
901-74.10	1 1/4 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 2 AWG		LIN FT	230
901-99.00	240 VOLT BASE MOUNTED CONTROL STATION (MULTI-CIRCUIT)		EACH	3
	HIGHWAY SIGNING			
903-10.10	CONCRETE FOOTINGS, EMBEDDED		CU YD	1.7
903-10.20	CONCRETE FOOTINGS, BOLT DOWN		CU YD	209.5
903-12.10	STRUCTURAL STEEL POSTS		POUND	1,760
903-12.40	BREAKAWAY ASSEMBLY		EACH	12
903-50.01	TYPE ST824 SIGN		SQ FT	1,600
903-50.04	TYPE SHR24 SIGN		SQ FT	78
903-50.05	TYPE SHR123 SIGN		SQ FT	12
903-50.06	TYPE SHR1 SIGN		SQ FT	64
903-50.13	MILEPOST		EACH	2
903-80.00	95 FT. OVERHEAD TRUSS, SIGN NO. 5		LUMP SUM	1
903-80.01	90 FT. OVERHEAD TRUSS, SIGN NO. 14		LUMP SUM	1

Mark J. Foster 7-10-86

FINAL PLANS

2067

ST. LOUIS

I-270

IR-270-5(212)

1167 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 2A
DIST. NO. 6	PROJECT NO IR-270-5(212)	ROUTE I-270
	COUNTY ST. LOUIS	

SHEET 2 OF 2

FINAL PLANS

ITEM	DESCRIPTION	UNIT	QUANTITY

ITEM	DESCRIPTION	UNIT	QUANTITY
903-80.02	105 FT. OVERHEAD TRUSS, SIGN NO. 15	LUMP SUM	1
903-80.03	90 FT. OVERHEAD TRUSS, SIGN NO. 16	LUMP SUM	1
903-81.00	30 FT. CANTILEVER TRUSS, SIGN NO. 4	LUMP SUM	1
903-81.01	25 FT. CANTILEVER TRUSS, SIGN NO. 10	LUMP SUM	1
903-82.00	20 FT. BUTTERFLY TRUSS, SIGN NO. 2	LUMP SUM	1
903-82.01	20 FT. BUTTERFLY TRUSS, SIGN NO. 12	LUMP SUM	1
903-99.05	RELOCATION OF EXISTING SIGNS, (3 SIGNS)	LUMP SUM	1
	BRIDGE DWG. NO. A-1051R AT STA. 354+34.64		
202-10.50	SPECIAL WORK (BRIDGES)	LUMP SUM	1
206-10.00	CLASS 1 EXCAVATION	CU YD	238
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	760
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	107.0
703-42.04	CLASS B-2 CONCRETE (SUPSTR ON STEEL)	CU YD	272.3
703-42.15	SAFETY BARRIER CURB	LIN FT	384
703-44.10	MEDIAN BARRIER CURB	LIN FT	344
703-50.10	REPAIRING CONCRETE DECK (HALF-SOLING)	SQ FT	29,
703-70.29	LOW SLUMP CONCRETE WEARING SURFACE	SQ YD	2,303
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	43,090
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	27,160
712-10.10	FABRICATED STRUCTURAL CARBON STEEL (I-BEAM)	POUND	172980
712-10.60	FABRICATED SIGN SUPPORT BRACKETS (STEEL)	LUMP SUM	1
712-36.10	SLAB DRAINS	EACH	32
712-50.15	PAINTING (EXISTING AND NEW STEEL)	LUMP SUM	1
	BRIDGE DWG. NO. A-1052R AT STA. 398+40.12		
202-10.50	SPECIAL WORK (BRIDGES)	LUMP SUM	0.8
206-10.00	CLASS 1 EXCAVATION	CU YD	417
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	1052
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	54.7
703-40.01	CLASS B-1 CONCRETE	CU YD	98.3
703-42.05	CLASS B-2 CONCRETE (SUPSTR VOIDED SLABS)	CU YD	663.6
703-42.15	SAFETY BARRIER CURB	LIN FT	379
703-44.10	MEDIAN BARRIER CURB	LIN FT	178
703-50.10	REPAIRING CONCRETE DECK (HALF-SOLING)	SQ FT	1084
703-70.29	LOW SLUMP CONCRETE WEARING SURFACE	SQ YD	3,290
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	11,220
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	82770

ITEM	DESCRIPTION		UNIT	QUANTITY
				FINAL PLANS QUANTITY
500	CONTINGENT ITEMS			
501 CONT	Roadway Granular Backfill	501.01	Ton	0
CONT	Process Existing Base	501.02	S.Y.	12825
206-10.30	Guard Rail Type C	501.03	L.F.	75
CONT	Asphalt Compaction Samples	501.04	Ea.	13
621-04.11	Temp Pav Stripe 4" SW	501.05	Sta.	86.4
621-04.21	Temp Pav Stripe 4" SY	501.06	Sta.	86.4
505 CONT	BR DWG No. A-1052R Cost Reduction Incent.	505.01	L.S.	30,790.75
CONT	Test Holes	505.02	L.F.	32
CONT	Cl. 1 Exc. @ 125 %	505.03	C.Y.	37.5

Accepted: January 24, 1986

Prepared by: Ronald E Feuell

Resident Engineer: [signature] Date: April 8, 1986

District Office: Marlin J Bagbee Date: April 21, 1986

Main Office Mark J. Slater Date: 7-10-86

FINAL PLANS

202

IR-270-5(212) I-270 ST. LOUIS

1167 24 TO 1

SP-2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIV. NO.	STATE	JOB NO. 6-1-270-422C	SHEET NO.
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	I-270	

SHEET 1 OF 9

FINAL PLANS

REMOVAL OF IMPROVEMENTS - LUMP SUM

PAY - 1 LUMP SUM X

CONCRETE SLOPE PROTECTION

SHEET NO.	RDWY.	LOC.	S.Y.	REMARKS
6	I-270	Lt.	105.1	Br. No. A1051R
6	I-270	Lt. & Rt.	127.0	" " "
6	I-270	Rt.	96.7	" " "
7	I-270	Lt.	411.2	Br. No. A1052R
7	I-270	Lt. & Rt.	362.5	" " "
7	I-270	Rt.	349.7	" " "
		TOTAL:	1452.2	

206

FINAL PLANS

1167 24 TO 1

SP-28

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 2 OF 9

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST. NO.	COUNTY	ROUTE	SEC
6	St. Louis	I270	

TEMPORARY PAVEMENT STRIPING AND PAVEMENT STRIPE REMOVAL

STAGE	RDWY.	LOC.	STATION	STATION	PAINT 13" T.T.B. SOLID WHITE 100 L.F.	PAINT 13" T.T.B. SOLID YELLOW 100 L.F.	PAINT 4" INTERM WHITE 100 L.F.	PAINT 4" S&SIB W.H. 100 L.F.	PAINT 4" S&SIB Yel. 100 L.F.	TAPE 4" SOLID WHITE 100 L.F.	TAPE 4" INTERM WHITE 100 L.F.	TAPE 4" SOLID YELLOW 100 L.F.	PAVEMENT STRIPE REMOVAL PAINT 100 L.F.	PAVEMENT STRIPE REMOVAL TAPE 100 L.F.
IIA	270	S.B.	322+00	346+85			12.4							
		N.B.	322+00	346+90			12.5							
		S.B.	346+85	362+00		3.7	4.4	8.7	8.7				2.0	
		N.B.	346+90	363+60		3.7	4.4	8.7	8.7				4.4	
		S.B.	362+00	390+70			19.4							
		N.B.	363+60	391+00			13.7							
		S.B.	390+70	412+10										
		N.B.	391+00	412+10										
IIB	270	S.B.	346+85	362+00	3.7		1.6	3.7	3.7	11.5	5.7	11.5	5.4	13.6
		N.B.	346+90	363+60	3.7		1.6	3.7	3.7	13.0	3.3	13.0	3.8	
		S.B.	390+70	407+70			1.4	1.8	1.8	17.9	8.2	17.8		
		N.B.	391+00	408+00			2.0	1.8	1.8	18.2	9.0	17.7	26.7	
IIIA	270	S.B.	346+85	362+00						28.2		13.2		58.8
		N.B.	346+90	363+60						30.0		15.7		
		S.B.	390+70	407+70		7.6				72.1	3.4	31.2	12.0	88.8
		N.B.	391+00	408+00										
IIIB	270	S.B.	346+85	362+00		7.6				27.0	7.3	39.6	8.5	144.3
		N.B.	346+90	363+60										
		S.B.	390+70	407+70										
		N.B.	391+00	408+00										
IIIC	270	S.B.	346+85	362+00										
		N.B.	346+90	363+60										
		S.B.	390+70	407+70		7.8				17.6	32.3		0.1	134.5
		N.B.	391+00	408+00										
IIID		S.B.	390+70	407+70										
		N.B.	391+00	408+00										
Traffic Safety		I-270 WB & SB	322+00	410+10					58.0	58.0				
				TOTALS:	7.4	30.4	68.4	86.4	86.4	217.9	54.5	172.0	67.9	440.0

TEMPORARY PAVEMENT MARKING

RDWY.	LOC.	STATION	STATION	MILE
270	S.B.	322+00	412+10	1.7
	N.B.	322+00	412+10	1.7
			TOTAL	3.4

TEMPORARY TRAFFIC BARRIER

STAGE	RDWY	SIDE	STATION	STATION	TEMP. TRAFFIC BAR. L.F.	RELOCATED TEMP. TRAFFIC BAR. L.F.	REMARKS
IIA	270	N.B.	353 +50	357 +20	370		
		S.B.	353 +40	357 +10	370		
		N.B.	397 +60	401 +40	380		
		S.B.	397 +30	401 +10	380		
		℄	378 +00	386 +40	840		
IIB	270	S.B.	~~353 +20~~ 381 +69	~~357 +00~~ 383 +49	180	370	Remains Prop. of MHTD INCLUDES 1-10' TRANS. SEC.
		N.B.	353 +40	357 +10		370	
		N.B.	397 +60	401 +40		380	
		S.B.	397 +00	400 +80		380	
		S.B.	367 +60	376 +60	900		Remains Prop. of MHTD
IIIA	270	S.B.	352 +00	353 +30	100		
		S.B.	353 +30	357 +00		370	
		S.B.	352 +30	357 +00	470		
		N.B.	353 +40	357 +10		370	
		N.B.	357 +10	358 +10	100		
		N.B.	353 +40	358 +10	470		
		S.B.	396 +30	397 +30	100		
		S.B.	397 +30	401 +10		380	
		S.B.	396 +30	401 +10	480		
		N.B.	397 +60	401 +40		380	
		N.B.	401 +40	404 +30	290		
		N.B.	397 +60	404 +30	670		
IIIB	270	S.B.	396 +30	401 +10			
		N.B.	397 +60	402 +40			
		S.B.	352 +30	357 +00			
		N.B.	353 +40	358 +10			
IIIC	270	S.B.	396 +30	401 +10		960	
		N.B.	397 +60	402 +40		960	
IIID	270	N.B.	397 +60	401 +40			
		S.B.	397 +00	400 +80			
				TOTALS	6100	4920	

TEMPORARY IMPACT ATTENUATION DEVICES

STAGE	RDWY.	SIDE	STATION	TEMP. IMPACT ATTN. EA.	RELOC'D TEMP. IMPACT ATTN. EA.	REMARKS
I	270	℄	410 +12		2	Remains Prop. of MHTD
IIA	270	S.B.	353 +13	1		
		N.B.	357 +22	1		
		S.B.	397 +03	1		
		N.B.	401 +42	1		
IIB	270	S.B.	353 +03		1	
		N.B.	357 +12		1	
		N.B.	401 +42		1	
		S.B.	397 +03		1	
		S.B.	362 +27	1		Remains Prop. of MHTD
IIIA	270	S.B.	352 +03	1	1	
		N.B.	358 +12	1	1	
		S.B.	396 +03	1	1	
		N.B.	404 +32	1	1	
IIIB	270	S.B.	396 +03			
		N.B.	402 +42			
		S.B.	352 +03			
		N.B.	358 +12			
IIIC	270	S.B.	396 +03		2	
		N.B.	402 +42		2	
IIID	270	S.B.	397 +03			
		N.B.	401 +42			
			TOTALS:	9	14	

207

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FINAL PLANS

(2)

1167 24 TO 1

SP-2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	I-270	

SHEET 3 OF 9

FINAL PLANS

OUTER RD RESURFACING

Sh. No.	Rdwy	Loc	Sta	to	Sta.	Shape Shldrs Cl. I - Mi.	6" Type 1 or 2 Agg. - S.Y.
3 & 4	Emerson Rd	Lt & Rt	333+50		356+25	0.87	3465
3 & 4	Coeur De Ville	"	342+98.72		355+45	1.15	4624
				Totals		2.02	8089

208

378

SHOULDERS (BASES, SURFACE COURSES & RESURFACING)

SHEET NO.	ROADWAY	LOC.	STATION	STATION	SHLDR. TYPE	L.F.	AVG. SHLDR. WIDTH	IN-SLOPE	10" NON-REINF. P.C.C. S.Y.	6" TYPE 'M' CURB L.F.	7" TYPE '4' AGGR. S.Y.	9" TYPE '4' AGGR. S.Y.	TACK COAT GAL.	
4	I-270	RT.	362+46.3	367+60.59	Mod. V	514	9'	VAR.				801		
3	I-270	LT.	322+00	331+50	V	950	10'	6:1			1738			
3	I-270	LT.	331+50	335+50	VII	400	11'	—	488.9	400				
3	I-270	LT.	335+50	339+48.35	V	398	10'	6:1			729			
3 & 4	I-270	LT.	339+48.35	344+38.6	Mod. V	490	10'	6:1				930		
4	RP. 1	Lt. & Rt.	9+05	10+90	—	185	6'	—					3	RESURFACE
4	I-270	LT.	345+10	352+35.4	—	725	10'	—					37	"
4	I-270	LT.	352+35.4	353+95.4	Mod. V	160	VAR.	3:1				128		
4	I-270	LT.	356+29.29	363+15	Mod. V	686	VAR.	3:1				836		
4	I-270	RT.	405+34.9	410+84.9	Mod. V	550	7'AVG.	VAR.				774	4	INCL. DEPTH TRANS.
6	I-270	LT.	352+35.4	354+15.4	—	180	6'AVG.	—					6	COVER CONC. BS. WIDEN.
4	RP. 3	Lt. & Rt.	0+90	4+20	—	330	6'	—					11	RESURFACE
4	I-270	LT.	365+53.3	370+40.73	Mod. V	487	10'	6:1				925		
4	I-270	LT.	370+40.73	375+00	V	460	10'	VAR.			775			
4	I-270	LT.	375+00	398+41.19	V	2341	10'	—			2796			ADJ. TO EARTH BERM
4 & 5	I-270	LT.	401+34.28	402+54	Mod. V	120	6'	—				90		" " " "
5	I-270	LT.	402+54	16+65 (RP. 1)	—	250	6'	—					6	RESURF. + INCL. DEPTH TRANS.
5	I-270	LT.	403+90	411+64.4	—	775	VAR.	—					37	"
3 & 4	I-270	RT.	322+00	340+51.03	V	1851	10'	VAR.			3197			
4	I-270	RT.	340+51.03	345+65.4	Mod. V	514	10'	4:1				821		
4	RP. 2	Lt. & Rt.	1+30	3+75	—	245	6'	—					10	RESURF. INCL. DEPTH TRANS.
4	I-270	RT.	347+16.7	352+66.7	Mod. V	550	7'AVG.	4:1				694		ADJ. TO ESCAPE LANE
6	I-270	RT.	352+66.7	354+11.74	Mod. V	145	11'AVG.	3:1				228		
6	I-270	RT.	356+45.63	358+05.63	Mod. V	160	VAR.	3:1				128		
4	I-270	RT.	358+05.63	362+20	—	415	10'	—					28	INCL. RP. 4 SHLDRS.
4	I-270	RT.	367+60.59	376+00	V	839	10'	6:1			1535			
4	I-270	RT.	376+00	397+25.12	V	2125	10'	—			2538			ADJ. TO EARTH BERM
4	I-270	RT.	400+18.21	401+38	Mod. V	120	6'	—				90		" " " "
4 & 5	I-270	RT.	401+38	2+55 (RP. 2)	—	470	6'	—					17	RESURF.
5	I-270	℄	410+10	410+37.5	—	—	—	—						BIT. BS. WIDEN. FOR IMPACT ATTN.
					TOTALS:				488.9	400	13,308	6445	159	

FINAL PLANS

(3)

1167 24 TO 1

SP-2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIV. NO	STATE	JOB NO. 6-I-270-422C	SHEET NO
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST NO	COUNTY	ROUTE	SEC
6	ST. LOUIS	I-270	

SHEET 4 OF 9

FINAL PLANS

TYPE 3 AGG. BASE-4"
Total Pay - 40886 S.Yds. ✓

9" N.R. CONC. BASE WIDENING
Total Pay - 1559.7 S.Yds. ✓

10" N.R.-P.C.C.P.
Total Pay - 11639.6 S.Yds. ✓

10" REINF.-P.C.C.P.
Total Pay - 35027.1 S.Yds. ✓

SHEET NO.	ROUTE	DIR.	LOC.	BEGIN STA.	END STA.	PAVT. WIDTH	9" COND. BASE WIDTH	10" N.R. CONC. P.C.C.P. S.Y.	10" REINF. P.C.C.P. S.Y.	REMARKS
4	I-270	N	℄	322+00	331+00	68'			2177	
4	I-270	N	℄	331+00	341+00	68'			2511	
4	I-270	N	℄	341+00	351+00	68'			2511	
4	I-270	N	℄	351+00	356+06.39	68'			1336	
4	I-270	S	℄	322+00	331+00	68'			2177	
4	I-270	S	℄	331+00	341+00	68'			2511	
4	I-270	S	℄	341+00	351+00	68'			2511	
4	I-270	S	℄	351+00	356+06.39	68'			1336	
4	I-270	N.B.L.	℄	351+39.64	356+06.39	12'			1112	
4	I-270	N.B.L.	℄	356+06.39	361+00	12'			1336	
4	I-270	N.B.L.	℄	361+00	366+00	12'			2150	
4	I-270	N.B.L.	℄	366+00	371+00	12'			2150	
4-5	I-270	N.B.L.	℄	371+00	376+00	12'			2150	
4-5	I-270	N.B.L.	℄	376+00	381+00	12'			2150	
4-5	I-270	N.B.L.	℄	381+00	386+00	12'			2150	
4-5	I-270	N.B.L.	℄	386+00	391+00	12'			2150	
4-5	I-270	N.B.L.	℄	391+00	396+00	12'			2150	
4-5	I-270	N.B.L.	℄	396+00	401+00	12'			2150	
4-5	I-270	N.B.L.	℄	401+00	401+28	18'			301	
4	I-270	S.B.L.	℄	322+00	331+00	68'			2177	
4	I-270	S.B.L.	℄	331+00	341+00	68'			2511	
4	I-270	S.B.L.	℄	341+00	351+00	68'			2511	
4	I-270	S.B.L.	℄	351+00	356+06.39	68'			1336	
4	I-270	S.B.L.	℄	351+39.64	356+06.39	12'			1112	
4	I-270	S.B.L.	℄	356+06.39	361+00	12'			1336	
4	I-270	S.B.L.	℄	361+00	366+00	12'			2150	
4	I-270	S.B.L.	℄	366+00	371+00	12'			2150	
4-5	I-270	S.B.L.	℄	371+00	376+00	12'			2150	
4-5	I-270	S.B.L.	℄	376+00	381+00	12'			2150	
4-5	I-270	S.B.L.	℄	381+00	386+00	12'			2150	
4-5	I-270	S.B.L.	℄	386+00	391+00	12'			2150	
4-5	I-270	S.B.L.	℄	391+00	396+00	12'			2150	
4-5	I-270	S.B.L.	℄	396+00	401+00	12'			2150	
4-5	I-270	S.B.L.	℄	401+00	401+28	18'			301	
					TOTALS:			11639.6 SY	35027.1 SY	

EARTHWORK

COMPACTING EMBANKMENT:	31,479 C.Y. ✓
CLASS A EXCAVATION:	406633 C.Y. ✓
OVERHAUL:	1,711,400 ✓ (SEE PLAN SHEET NO. 5)
SEEDING:	13.3 Ac. ✓
TYPE 4 MULCH:	13.3 Ac. ✓
FIELD LAB:	1 EA. ✓
MOBILIZATION:	LUMP SUM ✓

TYPE 'A' CONCRETE MEDIAN BARRIER

SHEET NO.	RDWY	LOC	STATION	STATION	LINEAR FEET
3+4	I-270	℄	322+00	354+39.64	3234 ✓
4	I-270	℄	356+06.39	398+40.12	4234 ✓
4+5	I-270	℄	400+19.28	410+10	991 ✓
				TOTAL:	8459 ✓

PAVEMENT REPAIR (CONCRETE)

SHEET NO.	LOG MILE	STATION	ROADWAY	LOCATION	SIZE	P.C.C. S.Y.
4	13.49	361+61.5	I-270-S.B.L.	Rt. Lane	15'x12'	20.0 ✓
4	13.39	366+90.5	I-270+N.B.L.	Ctr. Lane	5'x12'	6.7 ✓
4	13.06	389+32.9	I-270-N.B.L.	Rt. Lane	46'x12'	61.3 ✓
4	13.02	386+44.0	I-270+S.B.L.	Rt. Lane	5'x12'	6.7 ✓
4						
4	12.96	389+60.8	I-270-S.B.L.	Ctr. & Rt. Ln.	5'x12'	13.4 ✓
					TOTAL	108.1 SY ✓

BRIDGE APPROACH SLAB

SHEET NO.	RDWY.	LOC.	S.Y.	REMARKS
6	I-270	N.B.L.	117.1 ✓	BR. No. A1051R
6	I-270	S.B.L.	117.1 ✓	"
7	I-270	N.B.L.	215.7 ✓	BR. No. A1052R
7	I-270	S.B.L.	215.7 ✓	"
		TOTALS:	665.6 ✓	

GUARDRAIL

SHEET NO.	STATION	STATION	RDWY.	LOC.	TOTAL LENGTH REQ'D L.F.	TYPE 'A' GRDL. L.F.	TYPE 'A' T.E.S. EA.	B.A.S. SAFETY BARR. EA.	RELOCATED GRDL. L.F.	RELOCATED T.E.S. EA.	GUARDRAIL BEAM EA.	GUARDRAIL POST EA.	GUARDRAIL BLOCKS EA.	TYPE 'C' GRDL L.F.
3	332+00	333+25	I-270	S.B.L.	125	62.5	1							37.5
9	364+50	365+75	I-270	N.B.L.	125	62.5	1							37.5
6	353+07	354+32	I-270	S.B.L.	125.0			1 ✓	75 ✓	1 ✓				
6	356+19.1	357+44.1	I-270	N.B.L.	125.0			1 ✓	75 ✓	1 ✓				
7	396+45.72	397+70.72	I-270	S.B.L.	125.0			1 ✓	75 ✓	1 ✓				
7	400+88.68	402+13.68	I-270	N.B.L.	125.0	75 ✓	1 ✓	1 ✓						
4	379+27.5	386+90	I-270	S.B.L.	962.5				937.5 ✓	1 ✓		62 ✓	62 ✓	
				TOTALS:	1462.5	200 ✓	3 ✓	4 ✓	1162.5 ✓	4 ✓		62 ✓	62 ✓	75 ✓
					PAY	200	3	4	1163	4		62	62	75

FINAL PLANS

2091
3271

(4)

1167 24 TO 1

SP-28

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FED ROAD DIV NO	STATE	JOB NO. 6-I-270-422C	SHEET NO
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST NO	COUNTY	ROUTE	SEC
6	ST. LOUIS	I-270	

SHEET 5 OF 9

FINAL PLANS

SHEET NO.	RDWY.	LOC.	STATION	EROSION CONTROL IN-SLOPE	IN- TYPE	BACK SLOPE	BACK DEPTH	TO STATION	IN-SLOPE	IN- TYPE	BACK SLOPE	BACK DEPTH	L.F.	PVD DITCH S.Y.	SOD DITCH S.Y.	RK. LINING C.Y.	REMARKS
3	N.B.L.	LT.	323+05	6:1	8' F.B.	2.5:1	1'	330+25	6:1	8' F.B.	2.75:1	1'	720		1321.0		
3	N.B.L.	LT.	330+40	6:1	8' F.B.	3:1	1'	331+30	6:1	8' F.B.	2.5:1	1'	90	13.3			INCL. 25' TRANS.
3	N.B.L.	LT.	330+48	3:1	4' F.B.	3:1	1'	—	3:1	4' F.B.	3:1	1'	39	58.5			
3,4	N.B.L.	LT.	335+75	6:1	8' F.B.	3:1	1'	341+75	4:1	8' F.B.	3:1	1'	600		1075.6		
4	N.B.L.	LT.	341+75	4:1	8' F.B.	3:1	1'	342+04.6	2:1	'V'	2:1	1'	25	34.5			TRANS.
4	N.B.L.	LT.	342+04.6	2:1	'V'	2:1	1'	343+25	2:1	'V'	2:1	1'	150	67.0			MEET EXIST. 'V' DT.
4	N.B.L.	LT.	368+65	6:1	8' F.B.	3:1	1'	374+75	6:1	8' F.B.	3:1	1'	610		982.8		
4	N.B.L.	LT.	378+00	3:1	'V'	3:1	1'	383+23	3:1	'V'	3:1	1'	500	396.6			
4	N.B.L.	LT.	383+00	3:1	'V'	3:1	1'	384+34	3:1	'V'	3:1	1'	133		111.4		
4	N.B.L.	LT.	384+34	3:1	'V'	3:1	1'	386+50	3:1	'V'	3:1	1'	198		165.0		
4	N.B.L.	LT.	386+50	3:1	'V'	3:1	1'	390+25	3:1	'V'	3:1	1'	375	264.0			
4	N.B.L.	LT.	388+23	3:1	'V'	3:1	1'	—	3:1	'V'	3:1	1'	45	19.6			SKEWED
4	N.B.L.	LT.	390+25	3:1	'V'	3:1	1'	390+53	3:1	8' F.B.	3:1	1'	25	32.6			TRANS.
4	N.B.L.	LT.	390+50	3:1	8' F.B.	3:1	1'	391+00	4.5:1	8' F.B.	3:1	1'	50		79.4		
4	N.B.L.	LT.	391+00	4.5:1	8' F.B.	3:1	1'	391+50	6:1	8' F.B.	3:1	1'	50		70.0		
4	N.B.L.	LT.	393+70	6:1	8' F.B.	3:1	1'	396+20	6:1	8' F.B.	3:1	1'	250		284.8		
4	N.B.L.	LT.	396+40	2:1	4' F.B.	2:1	1'	—	2:1	4' F.B.	2:1	1'	40	43.4			SKEWED
5	N.B.L.	LT.	402+65	2:1	4' F.B.	2:1	1'	—	2:1	4' F.B.	2:1	1'	39	39.3			SKEWED
3	S.B.L.	RT.	322+00	6:1	8' F.B.	3:1	1'	327+50	6:1	8' F.B.	3:1	1'	550		846.4		INCL. 25' TRANS.
3	S.B.L.	RT.	327+50	3:1	'V'	3:1	1'	328+50	3:1	'V'	3:1	1'	99		108.9		
3	S.B.L.	RT.	328+50	3:1	'V'	3:1	1'	328+75	3:1	5' F.B.	3:1	1'	25	40.4			TRANS.
3	S.B.L.	RT.	328+75	3:1	5' F.B.	3:1	1'	330+75	6:1	5' F.B.	3:1	1'	200	231.1			
3	S.B.L.	RT.	330+75	6:1	5' F.B.	3:1	1'	331+00	6:1	8' F.B.	3:1	1'	25	52.2			TRANS.
3	S.B.L.	RT.	331+00	6:1	8' F.B.	3:1	1'	337+75	6:1	8' F.B.	3:1	1'	675		1319.9		INCL. 25' TRANS.
4	S.B.L.	RT.	342+20	2:1	2' F.B.	2:1	1'	344+17	2:1	2' F.B.	2:1	1'	250	150.5			
4	S.B.L.	RT.	362+70	3:1	'V'	3:1	1'	364+34	4.5:1	'V'	3:1	1'	155	155.1			
4	S.B.L.	RT.	364+34	4.5:1	'V'	3:1	1'	364+53	6:1	8' F.B.	2.5:1	1'	25	18.4			TRANS.
4	S.B.L.	RT.	378+00	2:1	'V'	2:1	1'	382+78	2:1	'V'	2:1	1'	478	213.0			MEET 5' F.B.D.
4	S.B.L.	RT.	382+82	2:1	5' F.B.	2:1	1'	—	2:1	5' F.B.	2:1	1'	5.35	18.1		14.4	SEE SPECIAL SHEET 5
4	S.B.L.	RT.	382+82	2:1	4' F.B.	2:1	1'	—	2:1	4' F.B.	2:1	1'	5.35				" " " "
4	S.B.L.	RT.	387+27	2:1	4' F.B.	2:1	1'	—	2:1	4 F.B.	2:1	1'	20	33.7		10.7	" " " "
4	S.B.L.	RT.	387+27	3:1	'V'	3:1	1'	390+90	3:1	'V'	3:1	1'	348	245.4			
4	S.B.L.	RT.	390+90	3:1	'V'	3:1	1'	391+20	3:1	8' F.B.	3:1	1'	25	20.4			TRANS.
4	S.B.L.	RT.	391+00	3:1	8' F.B.	3:1	1'	393+00	6:1	8' F.B.	3:1	1'	197		295.5		
4	S.B.L.	RT.	396+40					—					—			3	AT STRUCT. 29-B, F.E.S.
4	S.B.L.	RT.	400+46	3:1	'V'	3:1	1'	401+05	3:1	'V'	3:1	1'	54	35.9			MEET 4' F.B.D.
4	S.B.L.	RT.	401+00	2:1	4' F.B.	2:1	1'	—	2:1	4' F.B.	2:1	1'	12	7.8			
4	N.B.L.	LT.	354+10	2:1	3' F.B.	2:1	1'	—	2:1	3' F.B.	2:1	1'	92	72.6			SKEWED
4	S.B.L.	RT.	397+62.9	3:1	4' F.B.	3:1	1'	—	3:1	4' F.B.	3:1	1'		12.2			
													TOTALS:	2393.6	6660.7	28.1	
													PAY	2393.6	6661	28	

TYPE 'A' GUTTER

SHEET NO.	RDWY.	LOC.	STATION	STATION	L.F.	REMARKS
3	I-270	LT.	331+30	331+55	27	ONE LOCATION ONLY.

210

372

FINAL PLANS

(5)

1167 24 TO 1

SP-28

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-4220	SHEET NO.
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	I-270	

SHEET 6 OF 9

FINAL PLANS

PRECAST DROP INLETS

SHEET NO.	RDWY	LOC.	STATION	STRUC. NO.	TYPE	SIZE	DESIGN 'D'	PAY DEPTH 3'×2'	PAY DEPTH 4'×2'	PAY DEPTH 5'×3'	PIPE OPENING NUMBER & SIZE	GRTS & BRG. PL. LBS.	CL. 3 EXC. C.Y.	CULV. SHEET NO.
3	I-270	Lt.	329+24	23-3	B	3×2	2'-3"	2			1-12"	280	2	1
3	I-270	Rt.	324+24	23-4	B	3×2	3'-0"	3			1-12"; 2-21"	280	4	8
3	I-270	Lt	329+25	23-1	B	3×2	2'-3"	2			1-12"	280	2	1
3	I-270	Rt	329+25	23-2	B	3×2	3'-0"	3			1-12"; 1-21"	280	4	1
4	I-270	Lt	342+89	24-1	B	3×2	2'-3"	2			1-12"	280	2	2
4	I-270	Rt.	342+89	24-2	B	3×2	2'-6"	3			1-12"; 1-15"	280	9	2
3	I-270	Lt.	330+48	24-4	S-1	5×3	4'-9"			5"	1-24"	550	13	8
3	I-270	Rt	330+07	24-5	S-1	5×3	10'-6"			11"	2-24"	550	28	8
4	I-270	Rt.	348+63	25-1	B	3×2	2'-3"	2			1-12"	280	3	2
4	I-270	Lt.	348+63	25-2	B	3×2	2'-9"	3			1-12"; 1-18"	280	4	2
4	I-270	Rt.	353+00	25-3	B	3×2	2'-3"	2			1-12"	280	2	2
4	I-270	Lt.	353+00	25-4	B	3×2	2'-9"	3			1-12"; 2-18"	280	4	2
4	I-270	Rt.	354+00	25-5	B	3×2	2'-3"	2			1-12"	280	2	3
4	I-270	Lt.	354+00	25-6	B	3×2	3'-0"	3			1-12"; 2-18"	280	4	3
4	I-270	Lt.	360+00.4	26-8	B	3×2	2'-3"	3			1-12"	280	3	3
4	I-270	Lt.	361+41.4	26-7	B	4×2	4'-9"			5	2-21"	370	7	3
4	I-270	Lt.	365+56	26-6	B	3×2	4'-3"	4			2-21"	280	6	3
4	I-270	Rt	368+25	26-5	B	3×2	4'-0"	4			2-21"	280	6	3
4	I-270	Rt	369+90	26-4	B	3×2	3'-9"	4			2-21"	280	6	3
4	I-270	Lt	369+90	26-3	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Rt.	374+24	26-2	B	3×2	3'-0"	3			1-12"; 1-21"	280	4	4
4	I-270	Lt.	374+24	26-1	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Lt	378+00	27-1	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Rt.	378+00	27-2	B	3×2	4'-6"	5			1-12"; 1-15"	280	5	4
4	I-270	Rt	383+00	28-8	B	3×2	4'-9"	5			1-12"; 2-21"	280	7	5
4	I-270	Lt	383+00	28-7	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Rt	386+74	28-6	B	3×2	4'-6"	5			1-12"; 1-18"; 1-21"	280	6	5
4	I-270	Lt.	386+74	28-5	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Rt	391+08	28-9	B	3×2	3'-3"	3			1-12"; 2-18"	280	5	5
4	I-270	Lt	391+08	28-3	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Rt	395+42	28-2	B	3×2	2'-9"	3			1-12"; 1+18"	280	4	5
4	I-270	Lt	395+42	28-1	B	3×2	2'-3"	2			1-12"	280	2	4
4	I-270	Rt	400+70	29-9	B	3×2	4'-9"	5			1-12"; 1-18"	280	7	7
4	I-270	Lt	400+70	29-8	B	3×2	2'-3"	2			1-12"	280	2	6
4	I-270	Rt	401+00	29-7	B	4×2	4'-9"			5"	1-12"; 1-18"; 2-24"	370	8	11
4	I-270	Lt	401+00	29-6	B	4×2	2'-3"		2"		1-12"	370	3	11
5	I-270	Rt	405+50	29-5	B	3×2	4'-9"	5			1-12"; 1-21"; 1-24"	280	7	7
5	I-270	Lt	405+50	29-4	B	3×2	2'-3"	2			1-12"	280	2	6
5	I-270	Rt	409+06	29-3	B	3×2	4'-0"	4			1-12"; 1-18"; 1-24"	280	6	7
5	I-270	Lt	409+06	29-2	B	3×2	2'-3"	2			1-12"	280	2	6
5	I-270	Rt.	410+41	29-1	S-2	5×3	3'-0"			3"	1-18"	550	10	7
							TOTALS:	103	12	19		12,560	198	

PRECAST MANHOLES

SHEET NO.	RDWY	LOC	STATION	STRUC. NO.	SIZE	DESIGN 'D'	PAY DEPTH 48"	PAY DEPTH 60"	PIPE OPENING NUMBER & SIZE	TYPE I & F.C. (EA)	CL. 3 EXC. C.Y.	CULV. SHEET	REMARKS
4	I-270	Lt.	361+34.9	26-9	60"	5'-3"		5"	1-12"; 1-21"; 1-24"	1	11	3	w/ Locking Lid; Meet Exist. 24" R.C.P.
4	I-270	Rt	382+82	28-9	48"	5'-0"	5"		2-21"	1	9	6	w/ Locking Lid
						TOTALS:	5	5		2	20		

CORRGATED GALVANIZED METAL PIPE

SHEET NO	RDWY	LOC	STATION	21" L.F.	24" L.F.	F.E.S. 21"	(EA) 24"	CL. 3 EXC. C.Y.	CULV. SHEET	REMARKS
4	I-270	Rt.	382+82	100		1		61	6	w/ 2-15° Elbows
4	I-270	Rt.	401+00		66			76	11	w/ 2-15° Elbows
			TOTALS:	100	66	1		137		

DRAIN BASINS

SHEET NO	RDWY	LOC	STATION	DRAIN BASIN	CL 'A' & UNPER PIPE (L.F.)	CL. 3 EXC. C.Y.	CULV. SHEET	REMARKS
4	I-270	Rt.	356+30.1	1	116	39	11	w/ 2-15° Elbows
4	I-270	Lt.	356+36.7	1	116	64	11	w/ 1-5° & 1-10° Elbows
4	I-270	Rt	397+62.4	1	81	27	11	w/ 1-10° Elbow
4	I-270	Lt	398+73.8	1	30	4	11	w/ 1-90° Elbow
			TOTALS:	4	343	134		

FINAL PLANS

211

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6

1167 24 TO 1

FINAL PLANS

SP-2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 7 OF 9

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST. NO.	COUNTY		ROUTE	SEC
6	ST. LOUIS		I-270	

SHEET NO.	STATION TO STATION		RDWY.	LOC.	FROM STRUC.	TO STRUC.	CULVERT PIPE: CLASS III R.C.P. 12" L.F.	15" L.F.	18" L.F.	21" L.F.	24" L.F.	30" L.F.	JACKED PIPE CL. III R.C.P. (GASK. TYPE) 18" L.F.	21" L.F.	24" L.F.	FLARED END SECTIONS 15" E.A.	18" E.A.	24" E.A.	30" E.A.	PIPE COLLARS 'A' E.A.	'B' E.A.	CLASS 'J' EXC. C.Y.	CULV. SHEET NO.	REMARKS
3	329+25	——	I-270	Lt.-Rt.	23-1B	23-2B	3															0	1	
3	324+24	——	I-270	Lt.-Rt.	23-3B	23-4B	3															0	1	
3	324+24	329+25	S.B.L.	Rt.	23-4B	23-2B				499												263	1	
3	322+26	324+24	S.B.L.	Rt.	Ex. Pipe	23-4B				198												1106	8	MEET EXIST. PIPE
4	342+89	——	I-270	Lt.-Rt.	24-2B	24-1B	3															0	2	
4	342+89	344+01	N.B.L.	Lt.	24-2B	24-3PC		111												1		63	2	MEET EXIST. PIPE
4	348+63	——	I-270	Lt.-Rt.	25-2B	25-1B	3															0	2	
4	348+63	353+00	N.B.L.	Lt.	25-2B	25-4B			435													196	2	
4	353+00	——	I-270	Lt.-Rt.	25-4B	25-3B	3															0	2	
4	353+00	353+98	N.B.L.	Lt.	25-4B	25-6B			98													46	2	
4	354+00	——	I-270	Lt.-Rt.	25-6B	25-5B	3									1						0	3	
4	354+00	——	N.B.L.	Lt.	25-6B	25-7FE			28				65									28	3	SKEWED 5° L.A.
4	360+00	361+34.9	N.B.L.	Lt.	26-8B	26-9M	131															52	3	
4	361+34.9	361+41.4	N.B.L.	Lt.	26-9M	26-7B				3												0	3	
4	361+41.4	365+56	N.B.L.	Lt.	26-7B	26-6B				413												308	3	
4	365+56	368+25	I-270	Lt.-Rt.	26-6B	26-5B				267												203	3	
4	368+25	369+90	S.B.L.	Rt.	26-5B	26-4B				163												103	3	
4	369+90	——	I-270	Lt.-Rt.	26-3B	26-4B	3															0	4	
4	369+90	374+24	S.B.L.	Rt.	26-4B	26-2B				432												215	4	
4	374+24	——	I-270	Lt.-Rt.	26-1B	26-2B	3															0	4	
4	378+00	——	I-270	Lt.-Rt.	27-1B	27-2B	3															0	4	
4	378+00	——	S.B.L.	Rt.	Ex. Pipe	27-3FE		26								1						5	9	
4	381+75	——	N.B.L.	Lt.	Ex. Pipe	27-4FE					13								1	1		7	9	SKEWED 30° R.A. MEET EXIST. PIPE
4	381+75	——	S.B.L.	Rt.	Ex. Pipe	27-5FE					16								1			8	9	" " " " " "
4	382+82	——	S.B.L.	Rt.	28-9M	28-10FE				2			66								1	0	6	EXC. W/ C.M.P
4	383+00	——	I-270	Lt.-Rt.	28-7B	28-8B	3															0	4	
4	382+82	383+00	S.B.L.	Rt.	28-9M	28-8B				15												9	5	
4	386+74	383+00	S.B.L.	Rt.	28-8B	28-6B				372												295	5	
4	386+74	——	I-270	Lt.-Rt.	28-5B	28-6B	3															0	4	
4	387+10	——	N.B.L.	Lt.	Ex. Pipe	28A-FE					8					1						2	10	SKEWED 15° L.A. MEET EXIST. PIPE
4	387+70	——	S.B.L.	Rt.	Ex. Pipe	28B-FE					13					1						3	10	" " " " " "
4	391+08	386+74	S.B.L.	Rt.	28-6B	28-4B			432													250	5	
4	391+08	——	I-270	Lt.-Rt.	28-3B	28-4B	3															0	4	
4	391+08	395+42	S.B.L.	Rt.	28-4B	28-2B			432													214	5	
4	395+42	——	I-270	Lt.-Rt.	28-1B	28-2B	3															0	4	
4	396+40	——	N.B.L.	Lt.	Ex. Pipe	29A-FE					14					1						2	10	SKEWED 7° L.A. MEET EXIST. PIPE
4	396+40	——	S.B.L.	Rt.	Ex. Pipe	29B-FE					23					1						6	10	" " " " " "
4	400+70	——	I-270	Lt.-Rt.	29-8B	29-9B	3															0	6	
4	400+70	401+00	S.B.L.	Rt.	29-9B	29-7B			28													21	7	
4	401+00	——	I-270	Lt.-Rt.	29-6B	29-7B	3															0	11	
4	401+00	——	S.B.L.	Rt.	29-7B	29-10FE					2			74							1	0	11	EXC. W/ C.M.P
4,5	401+00	405+50	S.B.L.	Rt.	29-7B	29-5B					448											270	7	
4,5	401+70	——	N.B.L.	Lt.	Ex. Pipe	29-11FE					13					1						2	10	SKEWED 40° L.A. MEET EXIST. PIPE
5	405+50	409+06	S.B.L.	Rt.	29-3B	29-5B				354												270	7	
5	405+50	——	I-270	Lt.-Rt.	29-4B	29-5B	3															0	6	
5	409+06	——	I-270	Lt.-Rt.	29-2B	29-3B	3															0	6	
5	409+06	410+41	S.B.L.	Rt.	29-3B	29-1B			132													166	7	
3	330+48	——	N.B.L.	Lt.	Ex. Pipe	24-4S					24									1		21	8	
						TOTALS	182	137	1585	2718	545	29	65	66	74	1	1	5	2	3	2	3134		

SHEET 212

1167 24 TO 1

FINAL

(1)

SP-2B5 REV APR 1, 1983

SHEET 8 OF 9

STATE	JOB NO. 6-I-270-422C	SHEET NO.
MO.		2B
DIST. NO.	PROJECT NO. IR-270-5(212)	ROUTE
6	COUNTY St Louis	I-270

SUMMARY OF QUANTITIES

SIGN	SIZE (INCHES)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)	QUANTITY RELOCATED	TOTAL RELOCATED AREA (SQ. FT.)	SIGN LEGEND
WARNING SIGNS							
W1-1L	48x48	16.0					TURN (SYMBOL LEFT ARROW)
W1-1R	48x48	16.0					TURN (SYMBOL RIGHT ARROW)
W1-2L	48x48	16.0					CURVE (SYMBOL LEFT ARROW)
W1-2R	48x48	16.0					CURVE (SYMBOL RIGHT ARROW)
W1-3L	48x48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W1-3R	48x48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W1-4L	48x48	16.0	16	256			REVERSE CURVE (SYMBOL LEFT ARROW)
W1-4R	48x48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W1-6	48x24	8.0					HORIZONTAL ARROW (SYMBOL)
W1-6a	72x36	18.0					HORIZONTAL ARROW (SYMBOL)
W1-7	48x24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W1-7a	72x36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W1-8	18x24	3.0					CHEVRON (SYMBOL)
W3-1	48x48	16.0					STOP AHEAD
W3-2	48x48	16.0					YIELD AHEAD
W3-3	48x48	16.0					SIGNAL AHEAD (SYMBOL)
W3-3X	24x18	3.0					SIGNAL AHEAD (PLAQUE)
W3-4	48x48	16.0	4	64			BE PREPARED TO STOP
W5-1	48x48	16.0	20	320	35	560	ROAD NARROWS
W5-3	48x48	16.0					ONE LANE BRIDGE
W6-1	48x48	16.0					DIVIDED HIGHWAY
W6-2	48x48	16.0					DIVIDED HIGHWAY ENDS
W8-3	48x48	16.0					TWO WAY TRAFFIC
W8-1	48x48	16.0					BUMP
W8-2	48x48	16.0					DIP
W8-3	48x48	16.0					PAVEMENT ENDS
W8-4	48x48	16.0					SOFT SHOULDER
W8-5	48x48	16.0					SLIPPERY WHEN WET (SYMBOL)
W8-5X	24x18	3.0					SLIPPERY WHEN WET (PLAQUE)
W8-6	48x48	16.0					TRUCK CROSSING
W8-7	48x48	16.0					LOOSE GRAVEL
W8-9	48x48	16.0					LOW SHOULDER
W9-1	48x48	16.0					RIGHT LANE ENDS (Includes LEFT/CENTER plate)
W9-2	48x48	16.0					LANE ENDS MERGE RIGHT (Includes LEFT plate)
W10-1	42 Diameter	9.6					RAILROAD CROSSING
W12-1	24x24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W12-2	48x48	16.0	16	256			LOW CLEARANCE (SYMBOL)
W12-2X	24x18	3.0	16	48			LOW CLEARANCE (PLAQUE)
W12-3	144x24	24.0	4	96			OVERHEAD LOW CLEARANCE (FEET AND INCHES) 13'4"
W13-1	24x24	4.0					ADVISORY SPEED PLAQUE
W20-1	48x48	16.0	10	160			ROAD CONSTRUCTION AHEAD (Includes RAMP/BRIDGE plate)
W20-2	48x48	16.0					DETOUR AHEAD (Includes 500 FT./1000 FT. plate)
W20-3	48x48	16.0					ROAD CLOSED AHEAD (Includes 500 FT./1000 FT. plate)
W20-4	48x48	16.0					ONE LANE ROAD AHEAD
W20-5	48x48	16.0	8	128			RIGHT LANE CLOSED AHEAD (Includes LEFT/CENTER plate)
W20-6	48x48	16.0	8	128			RIGHT LANE CLOSED (Includes LEFT/CENTER plate)
W20-7	48x48	16.0	4	64			FLAGMAN AHEAD (Includes 500 FT./1000 FT. plate)
W20-9	48x48	16.0	21	336			OPEN TRENCH
W21-2	48x48	16.0					FRESH OIL
W21-5	48x48	16.0					SHOULDER WORK AHEAD
W21-7	36x36	9.0					SAND BLASTING
W25-1	24x6	1.0	14	14	12	12	1000 FT.-1500 FT. (BACK TO BACK DISTANCE PLAQUE)
W25-2	24x6	1.0	8	8			200 FT.-500 FT. (BACK TO BACK DISTANCE PLAQUE)
W25-2a	24x6	1.0	4	4			1/2 MILE-1 MILE (BACK TO BACK DISTANCE PLAQUE)
W4-1R	48 x 48	16.0	3	48			MERGE (SYMBOL)
							SEE SPEC. SIGNING DETAIL SHEET
W6-1cx	24 x 18	3.0	4	12			" " " " "
W6-1c2L	60 x 60	25.0	8	200			" " " " "
W6 1c2R	60 x 60	25.0	8	200	2	50	" " " " "
			TOTALS:	2342		622	

SIGN	SIZE (INCHES)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)	QUANTITY RELOCATED	TOTAL RELOCATED AREA (SQ. FT.)	SIGN LEGEND
REGULATORY SIGNS							
R1-1	48x48	13.25					STOP
R1-2	48x48x48	6.93	3	20.79			YIELD
R1-2x	36x36	9.0					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20x9	1.25					4-WAY (PLAQUE)
R1-5	20x9	1.25					3-WAY (PLAQUE)
R2-1	36x48	12.0	20	240	8	96	SPEED LIMIT ——— 40
R2-5	36x48	12.0					REDUCED SPEED AHEAD
R3-1	36x48	12.0					NO RIGHT TURN
R3-2	36x48	12.0					NO LEFT TURN
R3-3	36x36	9.0					NO TURN
R3-4	36x48	12.0					NO U-TURN
R3-7R	30x30	6.25					RIGHT LANE MUST TURN RIGHT
R3-7L	30x30	6.25					LEFT LANE MUST TURN LEFT
R4-1	36x48	12.0					DO NOT PASS
R4-2	36x48	12.0					PASS WITH CARE
R4-7	36x48	12.0					KEEP RIGHT (HORIZONTAL ARROW)
R4-8	36x48	12.0					KEEP LEFT (HORIZONTAL ARROW)
R4-17	36x36	9.0					KEEP RIGHT
R4-18	36x36	9.0					KEEP LEFT
R5-1	30x30	6.25					DO NOT ENTER
R5-1a	30x24	5.0					WRONG WAY
R6-1L	48x18	6.0					ONE WAY ARROW (LEFT)
R6-1R	48x18	6.0					ONE WAY ARROW (RIGHT)
R6-2L	24x30	5.0					ONE WAY (LEFT)
R6-2R	24x30	5.0					ONE WAY (RIGHT)
R11-2	48x30	10.0					ROAD CLOSED
R11-3	60x30	12.5					ROAD CLOSED —— MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60x30	12.5					ROAD CLOSED TO THRU TRAFFIC
			TOTALS:	260.79		96	
GUIDE SIGNS							
G20-1	60x36	15.0	2	30			ROAD CONSTRUCTION NEXT 2 MILES
G20-2	60x24	10.0	4	40			END CONSTRUCTION
M4-8	30x15	3.13					DETOUR (PLAQUE)
M4-8R	48x36	12.0					DETOUR (RIGHT ARROW)
M4-9L	48x36	12.0					DETOUR (LEFT ARROW)
M4-10R	48x18	6.0					DETOUR (ARROW RIGHT)
M4-10L	48x18	6.0					DETOUR (ARROW LEFT)
M4-11	24x18	3.0					DETOUR ENDS
M5-1R	21x15	2.19					ADVANCE RIGHT TURN ARROW
M5-1L	21x15	2.19					ADVANCE LEFT TURN ARROW
			TOTALS:	70			

616-10.05 CONSTRUCTION SIGNS TOTAL (SQ. FT.)	2673	
616-10.10 RELOCATED SIGNS TOTAL (SQ. FT.)		718

FINAL PLANS

ITEM NUMBER	SIZE (INCHES)	TOTAL QUANTITY	DESCRIPTION
616-10.20	36x18	150	DRUM
616-10.35	One Rail		TYPE I BARRICADE
	8x24		
616-10.38	Two Rails		TYPE II BARRICADE
	8x24		
616-10.40	30x72	4	FLASHING ARROW PANEL
616-10.45	18x18		TYPE I OBJECT MARKER
616-10.46	6x12		TYPE II OBJECT MARKER
616-10.47	8x24	150	TYPE III OBJECT MARKER
616-10.50	8x8		FLASHING ELECTRIC LIGHT
616-10.51	-		WARNING LIGHT TYPE A
616-10.52	-	24	WARNING LIGHT TYPE B
616-10.53	-		WARNING LIGHT TYPE C
616-10.60	-		RAISED PAVEMENT MARKER
612-10.30	Three Rails		MOVABLE BARRICADE
	72x144		

All Signs, Plates, and Plaques shall be faced with Type 1 Reflective Sheeting in Accordance with Sec. 1042.

Sign Dimensions Shown are Minimum. No Additional Payment if Contractor Uses Larger Signs.

No additional area or payment will be made for PLATES which are to be included with certain signs.

ALL PLAQUES shall have a black bordur. PLATES do not have a border.

FINAL PLANS

213

375

1167 24 TO 1

SP-2B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES LIGHTING SHEET 9 OF 9

FED. ROAD DIV. NO.	STATE	JOB NO.	SHEET NO.
7	MO.	PROJECT NO. IR-270-5(212)	2B
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS		C

FINAL PLANS

~~POLES, ARMS AND LUMINAIRES~~

SH'T. NO.	POLE NO.	STA.	OFFSET	LOC.	POLES: AS-30	AT-30	B-30	AS-45: DI	2	3	4	5	AT-45: DI	2	3	4	5	B-45 DES.3	MB-45 DES.3	BRACKET ARMS: 4'	6'	8'	10'	12'	15'	LUMINAIRES: W I	W II	W III	W IV	W V	W I	W II	W III	W IV	W V	W I	W II	W III	W IV	W V	UNDRPS	FOUNDATIONS: 30'M.H.	45'M.H.
TOTALS:																																										

RIGID STEEL CONDUIT

SHEET NO.	STA.	OFFSET	LOC.	IN TRENCH: 1½	2	2½	3	3½	4	5	PUSHED: 1½	2	2½	3	3½	4	5
1	325+40	4' to Rt.	I-270 (UNDER OUTER RD)								90						
1	332+80	Rt.	" (OUTER RD)								40						
1	377+50	4' to Lt.	I-270								90						
1	391+00	4' to Rt.	"								90						
1	398+45	Rt.	" (UNDER CONWAY RD)								40						
TOTALS:											350						

TRENCHING

	TYPE I	II	III
Control Station 'J'		805	
Control Station 'L'		60	
Control Station 'M'		1350	
TOTALS:		2215	

PULL BOXES

SHEET NO.	STA.	OFFSET	LOC.		BIT.FIBR. CONC. I	III	A	B	
1	329+00	86' Rt.	I-270	#1			1	-	Sta. 'J'
1	391+00	88' Rt.	"	#2			1	-	Sta. 'M'
1	397+50	88' Rt.	"	#3			1	-	"
TOTALS:							3		

~~CABLE, 10 AWG 1 CONDUCTOR, POLE & BRACKET~~

TOTAL: L.F.

1¼ IN. CABLE-CONDUIT, 2 COND. & I BARE NEUTRAL, 2 AWG

Control Station 'J' to Ø	75	
'L' to Ø	75	
'M' to Ø	70	
	10	+5% ±
TOTAL:	230	L.F.

1 IN. CABLE-CONDUIT, 2 COND. & I BARE NEUTRAL, 8 AWG

Control Station 'J'	954	
" 'L'	173	
" 'M'	528	
	135	+5% ±
TOTAL:	2790	L.F.

IN. CABLE-CONDUIT, COND. & I BARE NEUTRAL, AWG

TOTAL: L.F.

SECONDARY SERVICE CONTROL STATIONS

SHEET NO.	STA.	OFFSET	LOC.	POST MT. SING. CIR. 240 V	BASE MOUNT SINGLE 240V	MULT. 240V	SINGLE 480V	MULT. 480V
1	332+80	215' Rt.	I-270 (Station 'J')					
1	377+50	150 Lt.	" (Station 'L')					
1	399+28	137 Rt.	" (Station 'M')					
TOTALS:						3		

FINAL PLANS

(9)

214

376

LSK 3/81

1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 3
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE
	COUNTY ST. LOUIS	I-270

FINAL PLANS

B.M.#15-79-"D" on Base of Conc. of Steel Fe Post
149'± Rt. ℄ Med. I-270 @ Sta. 322+00±
Elev. 635.79

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO.

NO DIRECT PAYMENT FOR CLEARING ℄ GRUBBING ENCOUNTERED ON THIS PROJECT.
EXIST. GUARD CABLE TO BE REMOVED UNDER SEPARATE CONTRACT.

ALL REQUIRED ADJUSTMENTS TO EXISTING UTILITY FACILITIES BY RESPECTIVE UTILITY COS.

LANDSCAPE PLANTINGS NOT SHOWN - DO NOT DISTURB PLANTINGS BEYOND CONSTRUCTION LIMITS.
U.I.P. C.L. FENCE AT R/W LINE

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED	D.H.	1-84
W.O. A-823	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

215

377

310 315 320 325 330 335 340

+24.01 761.85 +48.48 750' +32.16 750' +63.36 763' +00 763' +00 750' +17.46 750' +50 750' +50 759.78 24-45 END SOD. DT. 330+25 BEGIN PVD. 8' F.B.D. +40 W/ DT. BLK. END PVD. DT. +30 END TYPE V SHLDR. BEGIN TYPE VII SHLD. +50 +00 731.42' +00 771.48 333+50-BEGIN RESURFACING +00 200' 335 END TYPE VII SHLDR. +50 BEGIN TYPE V SHLDR. +50 +00 200' BEGIN SOD. 8' F.B.D. +75 +00 225' 339+48.35 END AUX. LANE. END TYPE V SHLDR. BEGIN MOD. TYPE V SHLDR.

BEGIN MED. LANES ℄ SHLDRS.-BEGIN SOD. 8' F.B.D.
BEGIN TYPE V SHLDRS. ℄ RESURFACING

R/W LINE ℄ EMERSON RD.

SOD. 8 F.B.D. TYPE V SHLDR. RESURFACED PVD. 4' F.B.D. TYPE 'A' GUTTER TYPE VII SHLDR. 100' A.C. DEPTH TRANS. RESURFACED TYPE VII CURB SOD. 8' F.B.D. I-270

(U.I.P.) (U.I.P.)

MATCH LINE 340+00 SEE SHEET 4

STA. 322+00-BEGIN JOB NO. 6-I-270-422 C
AUX. LANES ℄ TYPE 'A' C.M.B.

+63.25 240.95' +45.05 300' +00 300' +00 150' +17.46 150' +57.35 150' BEGIN RESURFACING 324+98.72 ℄ ROYAL VALLEY DR. 100' A.C. DEPTH TRANS. +00 220' +08.22 220' END SOD. 8' F.B.D. 327+50 +06.77 250'-300' +00 BEGIN SOD. V'DT. +50 END SOD. DT. BEGIN PVD. DT. +00 300'-250' EXIST. R.E.D. +00 220' END PVD. DT. +00 BEGIN SOD. 8' F.B.D. +08.80 220' +57.35 220' HIBLER DR. R/W LINE +65.27 220' +75 END SOD. DT.

SOD. 8' F.B.D. PVD. 5' F.B.D. ℄ COEUR DE VILLE DR. RESURFACED TYPE 'A' MED. BAR S.L.

B.M.#16-79-"A" on Conc. Base of Steel Fe Post
131'± Rt. ℄ Med. I-270 @ Sta. 334+00±
Elev. 642.09

SCALE
100' 50' 0 100' 200'

FINAL PLANS

ROUTE I-270
STA. 322+00
TO
STA. 340+00

1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-1-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	4
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-270	

FINAL PLANS

SURVEYED / DRAWN / TEMPLATE / AREAS CHECKED / NOTE BOOK / NO. X-922 / FINAL SURVEY / ORIGINAL SURVEY / BY / DATE

SEE SHEET 3 MATCH LINE 340+00

MATCH LINE THIS SHEET

℄ I-270
P.I. 361+63.53
Δ = 7° 36' RT.
D = 0° 45'
T = 507.41'
L = 1013.33'
R = 7639.49'
S E = 0.025' / FT.
Ls 200'

PAVEMENT WIDENING & PROPOSED TRAFFIC SIGNALS AT FOUR INTERSECTIONS (FUTURE)

E. WOODBRIDGE MANOR

E. EMERSON RD.

E. COEUR DE VILLE DR.

E. BEACON HILL LANE

LADUE ROAD

CONWAY ROAD

ABANDONED

Drain Basin

Exist. Asph. Curb (U.I.P.)

Type A Conc. Med. Barrier

Exist. Perm. Esmt. (Drain.)

ROCK LINING

RESURFACED

CONC. BASE WIDEN.

EXHIBIT E

EXHIBIT F

MOD. V SHLDR.

TYPE V SHLDR.

SOD 8' F.B.D.

BERM

25:1 TAPER

R/W LINE

S.L.

New B.A.S.℄ 75 L.F. Reloc Gdrl. - 1 T.E.S.

STA. 355+20.52 ℄ I-270 = STA. 13+82.50 ℄ LADUE RD.

Br. No. A-1051R
Sta. 355+20.52 ℄ I-270 - 13+82.50 ℄ Ladue Rd.
Widen Exist. Structure - Inside & Outside & Waterproof
Exist. (46'-76'-46') Cont. Comp. WF Beam Spans
Skew 2°-55' L.A.
10 @ 61'-11" Rdwy. - Straight Turned Back Wings - 10'-0"
Modified Exist. End Slopes - Added Slope Paving as Req'd.

Br. No. A-1052R
Sta. 399+29.70 ℄ I-270 - 15+00 ℄ Conway Rd.
Widen Exist. Structure - Inside & Outside & Waterproof
Exist. (54'-68'-54') Cont. Voided Conc. Spans
Skew 37°-44' L.A.
2 @ 82'-4½" Rdwy. - Straight Turned Back Wings - 5'-0"
Modify Exist End Slopes - Add More Slope Paving as Req'd.

REFERENCE SHEETS
BRIDGE DETAILS
DRAINAGE
A.C. TRANS.

B.M.#19-79-"□" ON WEST H.V. CONC CULV. S.W. CORNER 162' RT I-270 ℄ STA. 382+70± ELEV. 595.71

NOTE: SEE SPECIAL SHEET 19 FOR LOCATION OF T.T.B. TO REMAIN IN PLACE UPON COMPLETION OF PROJECT.

RELOC. 937.5 L.F. GDRL. & 1 T.E.S.
REPLACE 62 POST & BLOCKS

SCALE
100' 50' 0 100' 200'

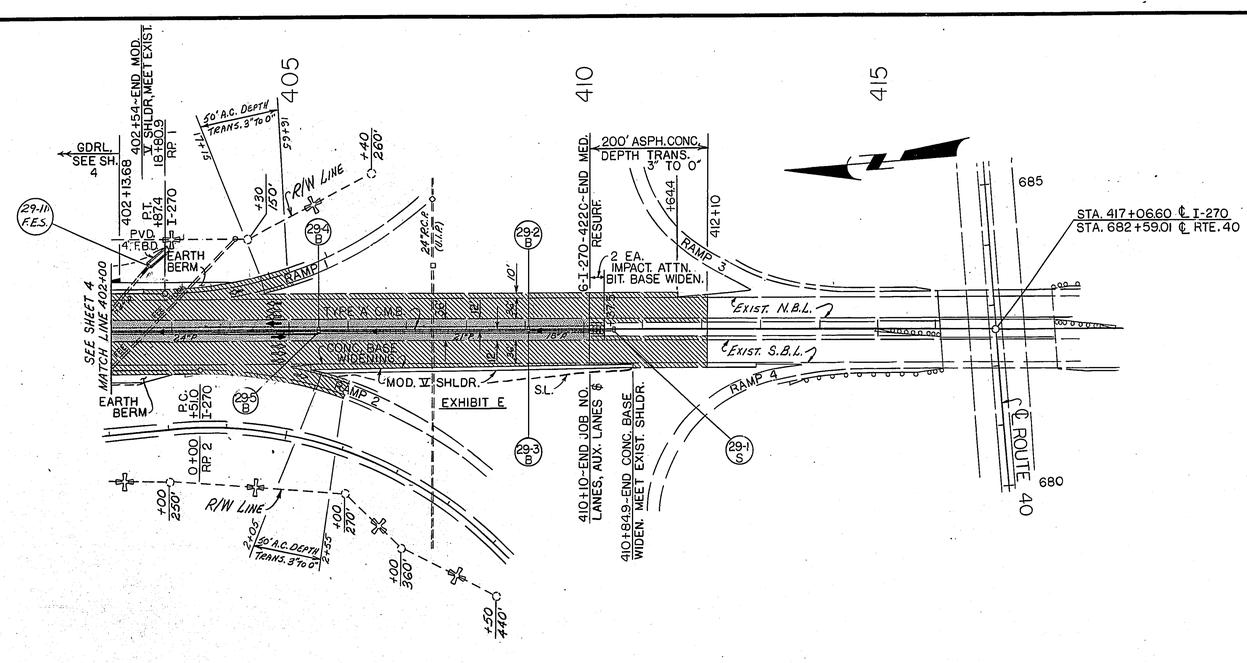
ROUTE I-270
STA. 340+00
TO
STA. 402+00

FINAL PLANS

1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-4220	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(2)2)	5
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-270	

FINAL PLANS



AREA	LOC.	STA.	STA.	CL 'A' EXC.	FILL	OVERHL.	REMARKS
1	I-270 LT.	322+00	354+37	10872	1031		164 TO ② 9368 TO ⑤
2	I-270 MD.	322+00	354+35	1393	1198	0	OBT.-FROM: 164-①
3	I-270 RT.	322+00	354+32	9260	1550		3610 TO ④ 1646 TO ⑤ 922 TO ⑦ 758 TO ⑧
4	I-270 LT.	356+08	398+81	8693	9916	489,783	OBT.-FROM: 3610-③ 476-⑤ 112-⑧
5	I-270 MD.	356+05	398+40	1981	1158		476 TO ⑤
6	I-270 RT.	356+02	397+98	8270	14834	1,083,881	OBT.-FROM: 9368-① 1646-③
7	I-270 LT.	400+61	404+18	11	718	101,936	OBT.-FROM: 922-③
8	I-270 MD.	400+20	410+10	488	289		112 TO ④
9	I-270 RT.	399+78	411+00	263	785	35,800	OBT.-FROM: 758-③
			SUBTOTAL	41,231			
			ROUNDING	843			
			CL. 'A' EXC.	42,074 C.Y.			
				FILL 31,479 C.Y.			

OVERHAUL = 1,711,400 STA.-YDS.

(NO OVERHAUL FOR PLACEMENT OF EMBANKMENT WITHIN A GRADING AREA).

SCALE
100' 50' 0 100' 200'

ROUTE I-270
STA. 402+00
TO
STA. 410+10
FINAL PLANS

FINAL PLANS

FINAL SURVEY: SURVEYED, PLOTTED, FIELD BOOK, AREAS, AREAS CHECKED, NO., BY, DATE 2-24

ORIGINAL SURVEY: SURVEYED, PLOTTED, FIELD BOOK, AREAS, AREAS CHECKED, NO., BY, DATE

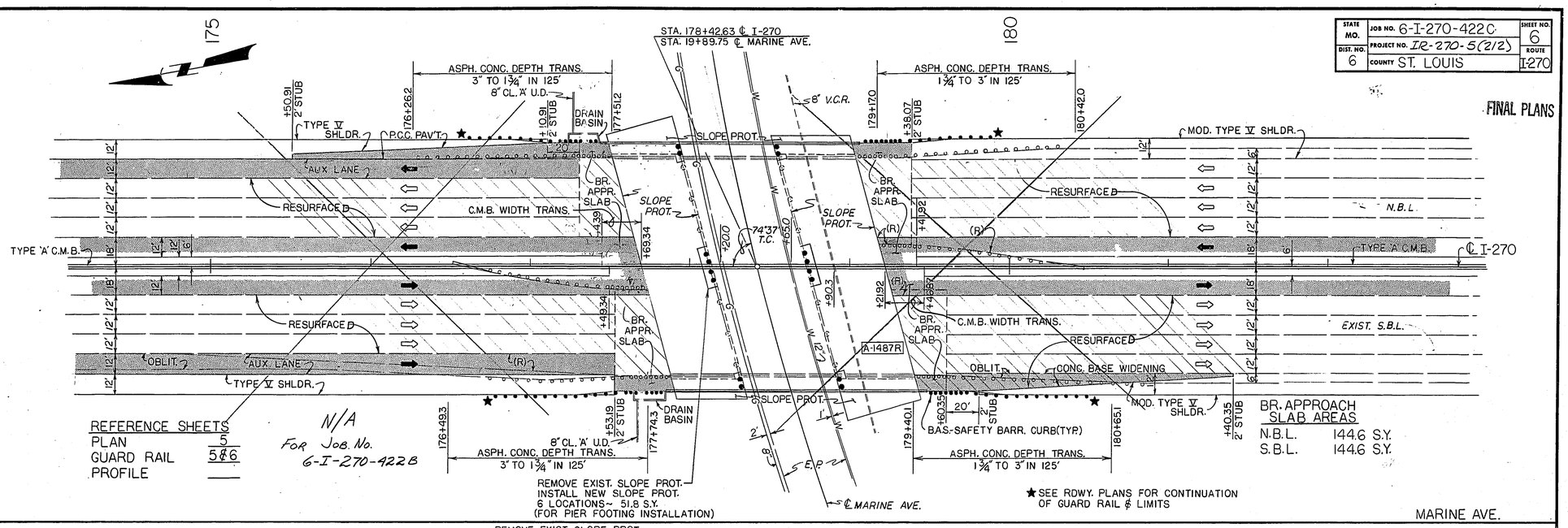
217

377

1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 6
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I270
	COUNTY ST. LOUIS	

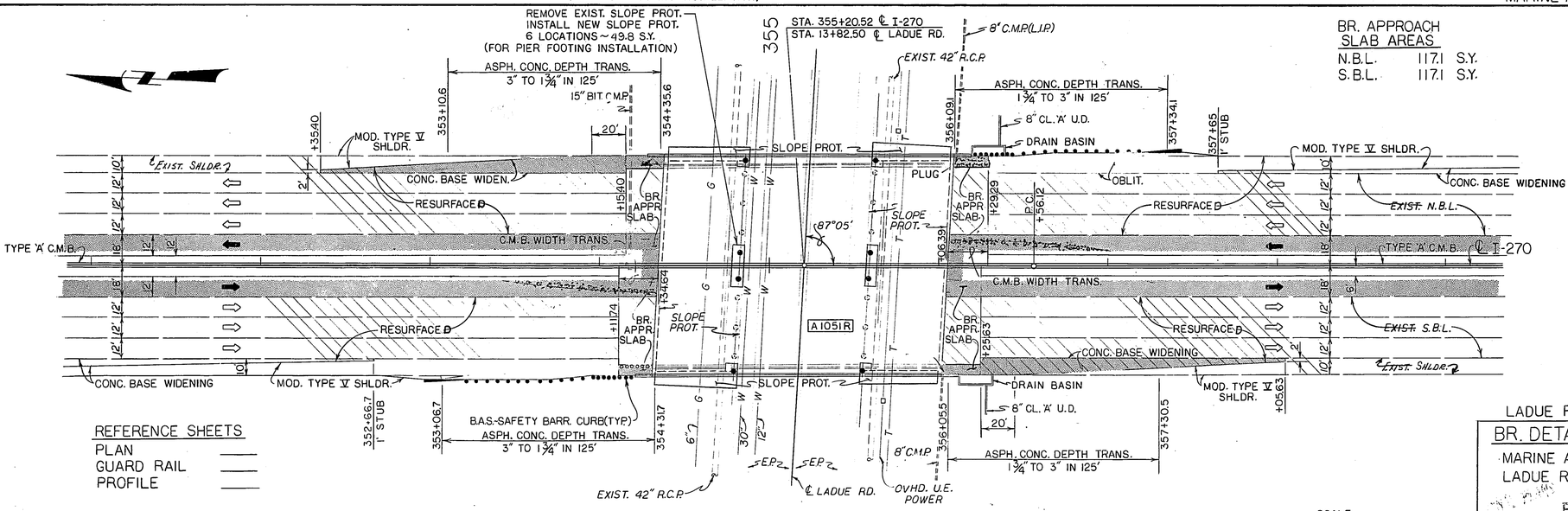
FINAL PLANS



REFERENCE SHEETS
PLAN 5
GUARD RAIL 5&6
PROFILE ——

N/A
FOR JOB. No. 6-I-270-422B

BR. APPROACH SLAB AREAS
N.B.L. 144.6 S.Y.
S.B.L. 144.6 S.Y.



REFERENCE SHEETS
PLAN ——
GUARD RAIL ——
PROFILE ——

BR. APPROACH SLAB AREAS
N.B.L. 117.1 S.Y.
S.B.L. 117.1 S.Y.

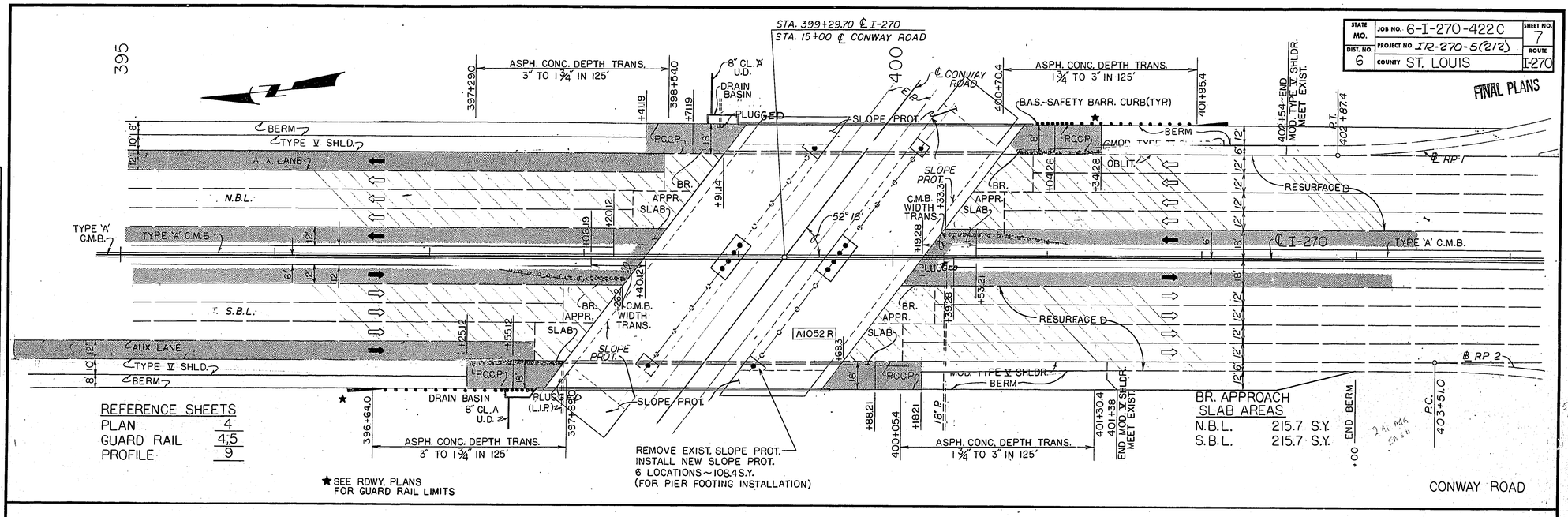
LADUE ROAD
BR. DETAILS
MARINE AVE.
LADUE ROAD
FINAL PLANS
SPECIAL SH. 1 OF 20

2180

1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 7
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE
	COUNTY ST. LOUIS	I-270

FINAL PLANS



ASPH. CONC. DEPTH TRANS. 3" TO 1¾" IN 125'

ASPH. CONC. DEPTH TRANS. 1¾" TO 3" IN 125'

ASPH. CONC. DEPTH TRANS. 1¾" TO 3" IN 125'

REMOVE EXIST. SLOPE PROT.
INSTALL NEW SLOPE PROT.
6 LOCATIONS ~ 108.4 S.Y.
(FOR PIER FOOTING INSTALLATION)

★ SEE RDWY. PLANS FOR GUARD RAIL LIMITS

REFERENCE SHEETS

PLAN	4
GUARD RAIL	4,5
PROFILE	9

BR. APPROACH SLAB AREAS

N.B.L.	215.7 S.Y.
S.B.L.	215.7 S.Y.

CONWAY ROAD

FINAL SURVEY — SURVEYED, PLOTTED, PROFILE, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, PROFILE, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

SCALE
0 25' 50' 75' 100'

BR. DETAILS
CONWAY ROAD

FINAL PLANS

SPECIAL SH. 2 OF 20

219

1167 24 TO 1

JOB NO. 6-T-270-422C

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	IR-270-5(2)2	8

DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I270	

FINAL PLANS

PROFILE — SURVEYED BY: B.H. — NOTE BOOK: NOTED — No. — PLOTTED: 2-23 — STRUCTURE NOTATIONS CHECKED

RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
S.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
92+702
93+344
93+952
EL. 496.32
94+594
EL. 496.98
+1.03%
BRIDGE NO. A-1242 R
N/A
RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. 1¾" TO 3" IN 125'
S.B.L. GRADE TRANS. 1¾" TO 3" IN 125'
97+366
EL. 500.04
98+208
EL. 500.70
98+816
99+458
96+668 ℄ I-270
811+40.49 ℄ C.R.R.
B.M.#2-79 "□" ON TOP OF WINGWALL N.W. COR. OF BRIDGE #A-1242 S.B.L. EL. 496.71
T.B.M. "□" ON N.W. COR. OF WEST FOOTING AT BENT 5 BRIDGE #A-1242 S.B.L. EL. 472.47
SO. PACIFIC R.R.
2 3 4 95 6 7 8 9 100
500 490 480 470 460

RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
S.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
136+82.8
136+96.0
138+07.8
EL. 540.01
138+21.0
℄ P.T. 138+35
EL. 541.33
+1.03%
BRIDGE NO. A-1056R
V.C. 670'
M.O. 1.94'
-1.29%
N/A
RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. ¾" TO 3" IN 125'
S.B.L. GRADE TRANS. 1¾" TO 3" IN 125'
140+02.8
EL. 539.28
140+16.1
EL. 539.18
141+27.9
141+41.1
B.M.#5-79 "□" ON TOP OF WINGWALL N.W. COR. OF I-270 BR. #A-1056 S.B.L. EL. 540.39
B.M.#12 "□" END OF WINGWALL N.E. COR. OF I-270 BR. #A-1056 S.B.L. EL. 540.42
139+19.7 ℄ I-270
814+03.83 ℄ DORSETT ROAD
DORSETT ROAD
2 3 4 5 6 7 8 9 140 1 2
550 540 530

RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
S.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
176+26.2
176+49.3
177+35.12
EL. 548.14
177+74.3
EL. 548.50
+1.54%
BRIDGE NO. A-1487 R
N/A
RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. 1¾" TO 3" IN 125'
S.B.L. GRADE TRANS. 1¾" TO 3" IN 125'
179+17.0
EL. 550.70
179+40.1
EL. 551.05
180+42.0
180+65.1
179+42.63 ℄ I-270
194+88.76 ℄ MARINE AVE.
B.M.#7-79 "□" ON TOP OF WINGWALL N.W. COR. OF I-270 BR. #A-1487 S.B.L. EL. 548.91
T.B.M. "□" END OF WINGWALL S.W. COR. OF I-270 BR. #A-1487 S.B.L. EL. 551.34
MARINE AVENUE
175 6 7 8 9 180 1 2
550 540 530

RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
S.B.L. GRADE TRANS. 3" TO 1¾" IN 125'
353+10.6
353+10.69
354+31.9
EL. 622.85
354+35.6
EL. 622.80
-0.70%
BRIDGE NO. A-1051R
N/A
RESURFACING & NEW MED. LANE GRADE TRANS.
N.B.L. GRADE TRANS. ¾" TO 3" IN 125'
S.B.L. GRADE TRANS. 1¾" TO 3" IN 125'
356+09.1
EL. 621.59
356+05.5
EL. 621.61
357+34.1
357+30.5
B.M.#(FINAL) "□" ON WINGWALL N.W. CORNER ON S.B.L. BR A-1051R Elev. 623.00
355+20.52 ℄ I-270
13+82.50 ℄ LADUE ROAD
LADUE ROAD
2 3 4 355 6 7
630 620 610

FINAL PLANS

BRIDGE PROFILE & PAVEMENT GRADE ROUTE I-270

SPECIAL SH. 13 OF 20

220

362

1167 24 TO 1

JOB NO. 6-I-270-422C

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	IR-270-5(212)	9

DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-270	

FINAL PLANS

PROFILE — SURVEYED: BY; NOTE BOOK: NOTED; PLATS CHECKED; No. ____ STRUCTURE HOUSING CHECKED; DATE: 8-81

RESURFACING & NEW MED. LANE GRADE TRANS.

N.B.L. GRADE TRANS. 3" TO 1¾" IN 125'

S.B.L. GRADE TRANS. 3" TO 1¾" IN 125'

397+129.0 | 398+540 EL. 633.13 | 396+640 | 397+890 EL. 632.87

RESURFACING & NEW MED. LANE GRADE TRANS.

N.B.L. GRADE TRANS. 1¾ TO 3" IN 125'

S.B.L. GRADE TRANS. ¾" TO 3" IN 125'

400+704 EL. 633.99 | 401+954 | 401+304 | 490+954 EL. 633.73

+0.40%

BRIDGE NO. A-1052R

B.M. #A1052R (FINAL) Elev. 634.00
"□" on S.E. Cor (W) - N.B. Lanes
B.R. A-1052R.

399+129.70 ℄ I-270
15°00' ℄ CONWAY RD.

CONWAY ROAD

6 7 8 9 400 1 2

(U.I.P.)

+0.40%

BRIDGE NO. A-1053

417+08.60 ℄ I-270
692+55.00 ℄ Route 40

B.M. A-1053 Chisled "□" End of Wingwall S.E. Corner N.B. Br. A-1053 EL. 641.32

B.M. #23-78 "□" on N.E. Corner Concrete Br. Abutment N. End S.B. Br. A-1053 EL. 640.70

ROUTE 40

4 4|5 6 7 8 9 420

640 650 630 640 620 630

4+40 WIDEN & RESURF.

+1.90 BEGIN NEW PVMT.

300' V.C. K = 130

+0.20%

420 672.83 | 450 682.45

Proposed Spans (29-111-111-60)

+00 672.23 | +25 682.30

+2.50%

-1.00%

℄ I-270

(2) Exist. Br. A-1054

Exist. P.G.

457+99.38 ℄ I-270
421+06.78 CLAYTON RD.

400' V.C.
S.S.D. = 400
K = 114

200' V.C. K = 154

+40 679.95

+40 END NEW PVMT.

425+98.2 Br. 425+98.1 Ahd.

+0.30%

+80 680.0

+98 END MASON & KIRKHAM

B.M. #25-80 "X" on North wing wall Bent #1, Br. 19-1054, 31' Lt. of Sta. 419+85. Elev. 676.53

T.B.M. #1E 80d spike in anchor pole 45' Lt. Sta. 419+90 in S.E. quadrant of Clayton Rd. & Mueller Ln. Elev. 671.37

T.B.M. #2E 80d spike on N. side (D), 60' Lt. Sta. 417+02 in W.W. guardrail at Clayton Rd. & Glenwood Ln. Elev. 679.61

TO BE BUILT ON JOB NO. 6-I-270-485

4 4|5 6 7 8 9 420 1 2 3 4 425 6 7

660 650 680 670 660 650

CLAYTON ROAD

BRIDGE PROFILE & PAVEMENT GRADE ROUTE I-270

FINAL PLANS

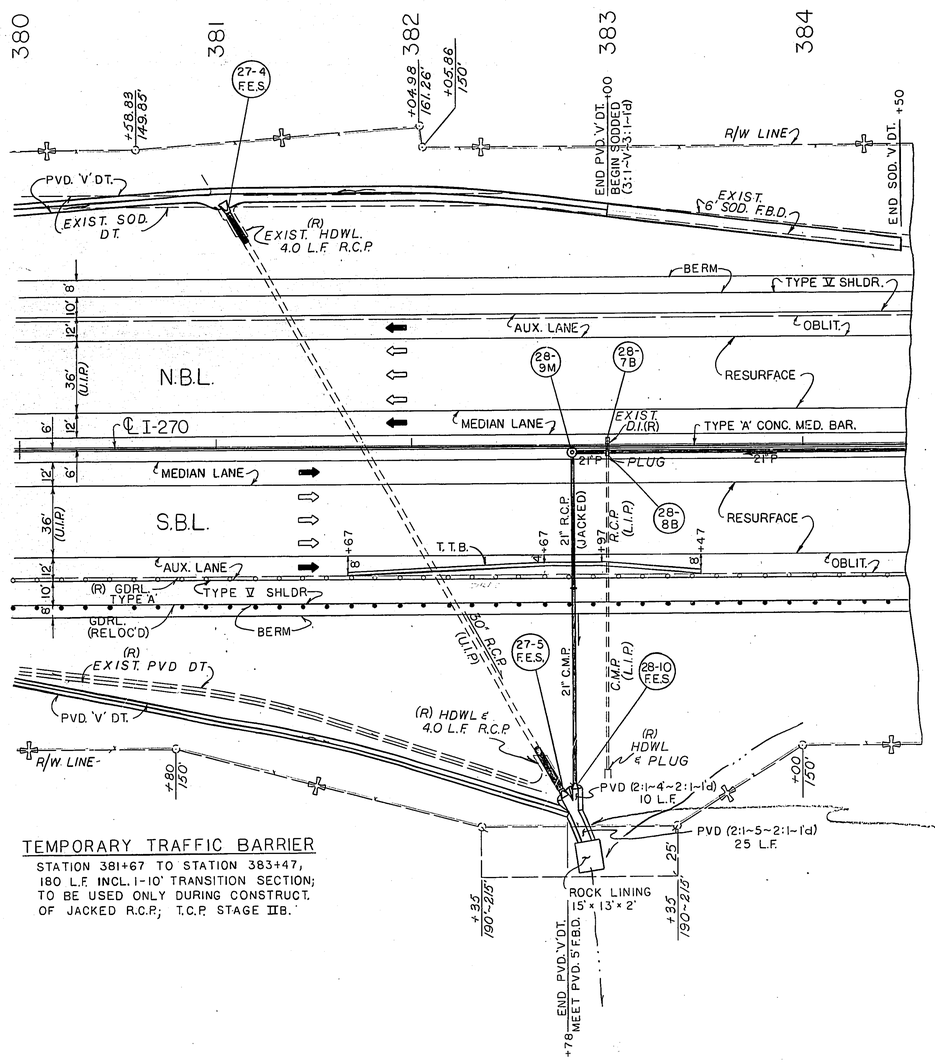
SPECIAL SH. 4 OF 20

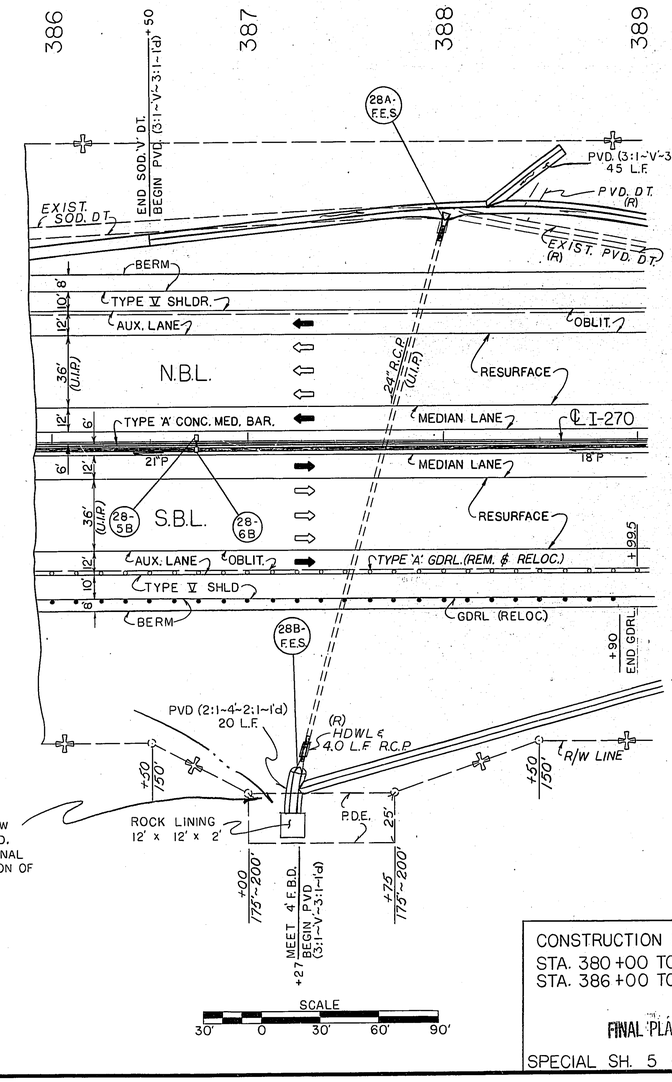
221

1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422 C	SHEET NO. 10
DIST. NO. 6	PROJECT NO. IR-270-5(2/2)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS





REM. C.L. FENCE @ R/W DURING CONST. OF PVD. DT.; RETURN TO ORIGINAL LOC. UPON COMPLETION OF DT. NO DIRECT PAY

TEMPORARY TRAFFIC BARRIER

STATION 381+67 TO STATION 383+47, 180 L.F. INCL. 1-10' TRANSITION SECTION; TO BE USED ONLY DURING CONSTRUCT. OF JACKED R.C.P.; T.C.P. STAGE IIB.

SCALE
30' 0 30' 60' 90'

CONSTRUCTION DETAILS
STA. 380+00 TO 384+50
STA. 386+00 TO 389+00

FINAL PLANS

SPECIAL SH. 5 OF 20

DATE | BY | SURVEYED | PLOTTED | NOTE BOOK | AREAS | AREAS CHECKED | NO.
ORIGINAL SURVEY | FINAL SURVEY

222

1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	11
DIST. NO.	COUNTY		ROUTE	SEC.
6	ST. LOUIS		270	

FINAL PLANS

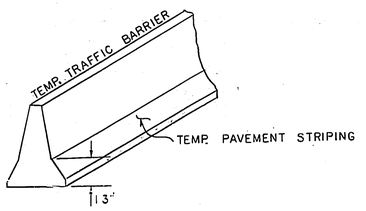
SYMBOLS AND ABBREVIATIONS – TRAFFIC CONTROL PLAN

	EXISTING PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW BITUMINOUS PAVEMENT (INCL. DEPTH TRANS., BY-PASSES & RESURF.)
	PAVEMENT OBLITERATION
	EXISTING TRAFFIC USEAGE
	NEW TRAFFIC USEAGE
d	SIGNS (NEW OR RELOC'D) (EXIST.)
	DRUMS WITH TYPE III OBJECT MARKERS
	DRUMS (U.I.P.)
	CONES (NO DIRECT PAYMENT)
#	T.C.P. ITEM NUMBER
T.C.P.	TRAFFIC CONTROL PLAN
GDRL.	GUARDRAIL
RELOC'D.	RELOCATED FROM ANOTHER LOCATION
R.I.	REMOVAL OF IMPROVEMENT (PAY ITEM)
T.T.B.	TEMPORARY TRAFFIC BARRIER (PAY ITEM)
H.T.	T.T.B. HEIGHT TRANSITION (INCL. IN T.T.B. PAY ITEM)
H.S.	TEMP. HIGHWAY SIGN (OTHER THAN 'STANDARD' T.C.P. SIGN)
P.H.S.	PERM. HIGHWAY SIGN (NEW OR EXIST.)
R.S.	REMOVE T.C.P. SIGN (NO DIRECT PAYMENT)

DATE / BY / SURVEYED, PLOTTED, TRAFFIC AREAS CHECKED / FINAL SURVEY NOTE BOOK NO.

TEMPORARY PAVEMENT STRIPING

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
D.W.	DASHED WHITE
S.Y.	SOLID YELLOW – D.S.Y. DOUBLE SOLID YELLOW
S.W./M	SOLID WHITE WITH RAISED PAVEMENT MARKERS
I.W./M	INTERMITTENT WHITE " " " " " "
S.Y./M	SOLID YELLOW " " " " " "
S.W./B	SOLID WHITE (PAINTED ON TEMP. TRAFFIC BARRIER – SEE DETAIL)
S.Y./B	SOLID YELLOW "
-- (R)	REMOVE STRIPING (PAY ITEM)
-- (T)	TAPE
-- (P)	PAINT



NOTE: PAINTING OF TEMP. TRAFFIC BARRIER IS REQUIRED IF OFFSET TO THRU LANE IS LESS THAN 4'. AT LOCATIONS WITH NO OFFSET, TEMP. PAVEMENT STRIPE EDGE LINE IS OMITTED.

DATE 3/22 / BY / SURVEYED, PLOTTED, TRAFFIC AREAS CHECKED / ORIGINAL FIELD NOTE BOOK NO.

STAGE CONSTRUCTION PROCEDURE

STAGE I

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON SPECIAL SHEET "RESURFACING - DIVIDED HIGHWAY."
B) PLACE 1¾" BINDER COURSE (ASPH. CONC.) STA. 321+00 TO STA. 411+00 (BRIDGE EXCEPTIONS) N.B.L. AND S.B.L., I-270, INCLUDING DEPTH TRANSITIONS.
C) THE HANDLING OF TRAFFIC WILL BE IN ACCORDANCE WITH THE SPECIAL SHEET NOTED ABOVE. INSTALL TEMP. PVMT. MARKING AND TEMP PAVT. STRIPING AS REQUIRED.

STAGE IIA

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON SPECIAL SHEET "MEDIAN LANE – AUXILIARY LANE CONST." PLACE "VERT. CLEARANCE OF BRIDGE CONST.-WITH RAMP CONNECTIONS" SIGNING SEQUENCE ON LADUE RD. AND "WITHOUT RAMP CONNECTION" SEQUENCE ON CONWAY ROAD.
B) CONST. MEDIAN LANES, STA. 322+00 TO STA. 410+10 N.B.L AND S.B.L., I-270. CONST. BRIDGE MEDIAN WIDENING. (BR. NOS. A-1051R AND A-1052R).
1) WATERPROOF MEDIAN LANES AND SHOULDERS ON BR. A-1051R.
2) OUTSIDE SUBSTRUCTURE WORK MAY BE DONE COINCIDENTAL WITH ABOVE.
C) SHIFT AND TAPER LANES AS INDICATED.

STAGE IIB

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON SPECIAL SHEET "MEDIAN LANE - AUXILIARY LANE CONST." ONE DRUM, EVERY 200', IS TO REMAIN ON THE NEW MEDIAN LANES, N.B. AND S.B., FOR THE DURATION OF THIS PROJECT.
B) CONST. AUXILIARY LANES AS NOTED. COMPLETE SUPERSTRUCTURE FOR OUTSIDE LANES AND/OR SHOULDER ON BR. NO. A-1051R AND A-1052R.
1) WATERPROOF OUTSIDE LANES AND SHOULDERS ON BR. NOS. A-1051R AND A-1052R.
C) SHIFT AND TAPER LANES AS INDICATED.

STAGE IIIA

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON PLAN SHEET.* ONE DRUM, EVERY 200' IS TO REMAIN ON THE NEW AUXILIARY LANES N.B. AND S.B, FOR THE DURATION OF THIS PROJECT.
B) WATERPROOF NOTED LANES ON BRIDGES A-1051R AND A-1052R.
C) TRAFFIC APPROACHING BR. A-1051R IS TO SPLIT (2 LEFT AND ONE RIGHT). TRAFFIC APPROACHING BR. A-1052R TO SHIFT AND A DECEL AND ACCEL LANE ARE FORMED AS NOTED.
1) OVERHEAD TRUSS NO. 14 STA. 388+00 S.B. LANE TO BE INSTALLED WITH SIGN INDICATING "EXIT ONLY."

STAGE IIIB

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON PLAN SHEET.*
B) WATERPROOF NOTED LANES ON BRIDGES A-1051R AND A-1052R.
C) TRAFFIC APPROACHING BR. A-1051R TO BE SPLIT (2 RIGHT AND ONE LEFT). TRAFFIC APPROACHING BR. A-1052R TO BE SPLIT (2 THRU. LANES LT. AND 1 THRU LANE AND ACCEL/DECEL LANE-RIGHT)

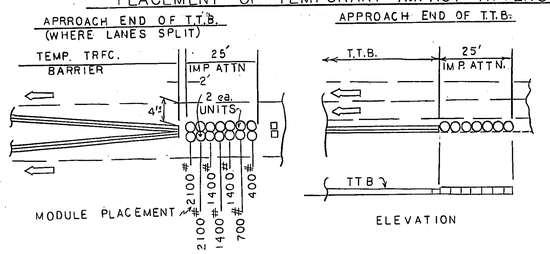
STAGE IIIC

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS SHOWN ON PLAN SHEET.*
B) APPROACH TRAFFIC TO BR. NO. A-1051R TO BE SHIFTED TO ORIGINAL THROUGH LANES. APPROACH TRAFFIC TO BR. NO. A-1052R TO BE SPLIT (2 LEFT AND 2 RIGHT N.B).
C) WATERPROOF APPLICABLE LANES ON BR. NO. A-1052R.

*EXIST ADVANCE WARNING SIGNS G20-1, G20-2, W20-1 AND R2-1(40) ARE TO REMAIN IN PLACE DURING CONST. OF STAGE III (SEE STAGE II T.C.P.).

(CONTINUED ON FOLLOWING SHEET)

PLACEMENT OF TEMPORARY IMPACT ATTENUATOR DEVICE (SEE T.C.P. FOR LOCATIONS)



TEMP. IMPACT ATTENUATOR DEVICE
1-25' UNIT CONSISTS OF
7 STD MODULES (YELLOW) 4 8 G's AT 55 mph.

QUANTITIES:
1 – 400 LB MODULE
1 – 700 LB. MODULE
3 – 1400 LB. MODULES
2 – 2100 LB MODULES
PLACE 9500 LBS. (4.75 TONS) OF DRY SAND INTO MODULES.

TRAFFIC CONTROL PLAN SYMBOLS, LEGEND AND STAGE CONSTRUCTION PROCEDURE

FINAL PLANS

SPECIAL SHEET 6 OF 20

1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	12
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-270	

FINAL PLANS

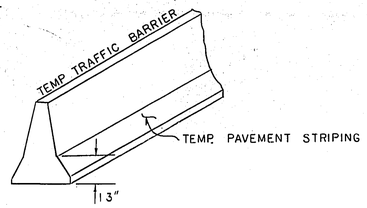
SYMBOLS AND ABBREVIATIONS — TRAFFIC CONTROL PLAN

	EXISTING PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW BITUMINOUS PAVEMENT (INCL. DEPTH TRANS., BY-PASSES & RESURF.)
	PAVEMENT OBLITERATION
	EXISTING TRAFFIC USEAGE
	NEW TRAFFIC USEAGE
	SIGNS (NEW OR RELOC'D) (EXIST.)
	DRUMS WITH TYPE III OBJECT MARKERS
	DRUMS (U.I.P.)
	CONES (NO DIRECT PAYMENT)
#	T.C.P. ITEM NUMBER
T.C.P.	TRAFFIC CONTROL PLAN
GDRL.	GUARDRAIL
RELOC'D.	RELOCATED FROM ANOTHER LOCATION
R.I.	REMOVAL OF IMPROVEMENT (PAY ITEM)
T.T.B.	TEMPORARY TRAFFIC BARRIER (PAY ITEM)
H.T.	T. T. B. HEIGHT TRANSITION (INCL. IN T.T.B. PAY ITEM)
H.S.	TEMP. HIGHWAY SIGN (OTHER THAN 'STANDARD' T.C.P. SIGN)
P.H.S.	PERM. HIGHWAY SIGN (NEW OR EXIST.)
R.S.	REMOVE T.C.P. SIGN (NO DIRECT PAYMENT)

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE

TEMPORARY PAVEMENT STRIPING

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
D.W.	DASHED WHITE
S.Y.	SOLID YELLOW — D.S.Y. DOUBLE SOLID YELLOW
S.W./M	SOLID WHITE WITH RAISED PAVEMENT MARKERS
I.W./M	INTERMITTENT WHITE " " " " " "
S.Y./M	SOLID YELLOW " " " " " "
S.W./B	SOLID WHITE (PAINTED ON TEMP. TRAFFIC BARRIER — SEE DETAIL)
S.Y./B	SOLID YELLOW " " " " " " " "
-- (R)	REMOVE STRIPING (PAY ITEM)
-- (T)	TAPE
-- (P)	PAINT



NOTE: PAINTING OF TEMP. TRAFFIC BARRIER IS REQUIRED IF OFFSET TO THRU LANE IS LESS THAN 4'. AT LOCATIONS WITH NO OFFSET, TEMP. PAVEMENT STRIPE EDGE LINE IS OMITTED.

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE 3/82

STAGE CONSTRUCTION PROCEDURE (CONT)

STAGE IIID

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON PLAN SHEET.*

B) APPROACH TRAFFIC TO BR. NO. A-1051R TO REMAIN UNCHANGED. SHIFT N.B. AND S.B. TRAFFIC AT BR. A-1052R AS NOTED.

C) WATERPROOF NOTED LANES ON BRIDGES A-1051R AND A-1052R.

*EXIST ADVANCE WARNING SIGNS G20-1, G20-2, W20-1, AND R2-1(40) ARE TO REMAIN IN PLACE DURING CONST OF STAGE III (SEE STAGE II T.C.P.)

STAGE IV

A) PLACE ADVANCE WARNING SIGNS AND DEVICES AS NOTED ON SPECIAL SHEET "RESURFACING — DIVIDE HIGHWAY" AND "RAMP RESURFACING".

B) PLACE SURFACE COURSE (ASPH. CONC.) STA. 321+00 TO 411+00 N.B. AND S.B. I-270. TEMP. PVMT. MARKING TO BE PLACED AS REQUIRED.

C) UPON COMPLETION, PERM. PVMT. STRIPING TO BE COMPLETED BY M.H.T.D.

D) SOUTHBOUND ADDITIONAL MEDIAN LANE SHALL NOT BE USED FOR TRAFFIC UNTIL COMPLETED OF SUBSEQUENT WIDENING PROJECTS TO THE SOUTH.

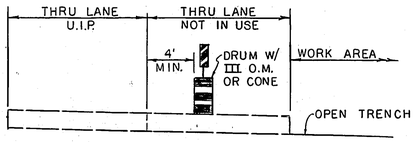
FINAL PLANS

FINAL PLANS

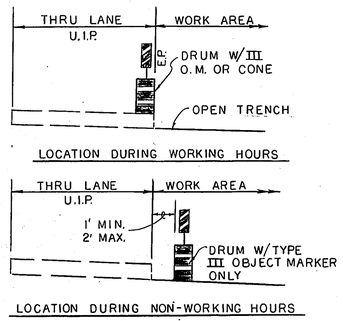
TRAFFIC CONTROL PLAN
SYMBOLS, LEGEND
AND STAGE CONSTRUCTION
PROCEDURE

SPECIAL SHEET 7 OF 20

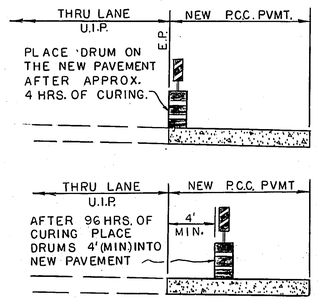
1167 24 TO 1



DRUM/CONE LOCATION WHEN ADJACENT LANE IS CLOSED



DRUM/CONE LOCATION DURING GRADING AND PAVING



DRUM LOCATION WHILE CURING

FED. ROAD DIV. NO.	STATE	JOB NO. G-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	13
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	270	

GENERAL NOTES

FINAL PLANS

1) DRUMS, CONES AND OBJECT MARKERS ARE TO CONFORM TO M.U.T.C.D. SEC. 6C-10.
2) ALL DRUMS SHALL HAVE ONE TYPE III OBJECT MARKER UNLESS A SIGN IS MOUNTED ON THE DRUM.
3) DRUMS SHALL BE PLACED OFF THE PAVEMENT WHEN WORK IS NOT IN PROGRESS UNLESS LANE CLOSURE IS IN EFFECT.
4) DRUMS SHALL BE USED FOR LANE CLOSING AND CHANNELIZING TAPERS. CONES MAY BE USED THROUGH THE WORK AREA UNLESS LANE CLOSURE IS REQUIRED OVERNIGHT.
5) WORK THIS SHEET WITH THE TRAFFIC CONTROL PLAN (T.C.P.). SPECIFIC DETAILS ON THE T.C.P. SHALL HAVE PRECEDENCE OVER THIS SHEET IF THERE IS A CONFLICT.

FINAL SURVEY: SURVEYED, PLOTTED, NOTE BOOK, AREAS, AREAS CHECKED, BY, DATE, NO.

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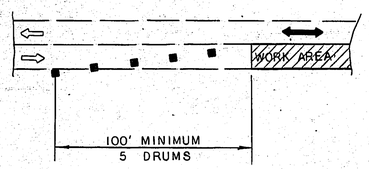
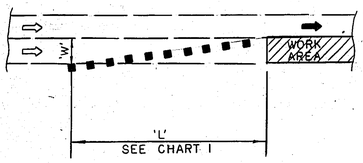
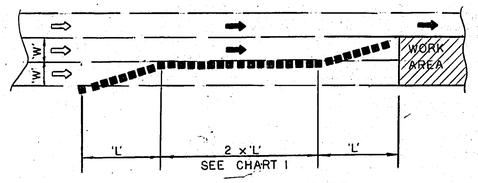


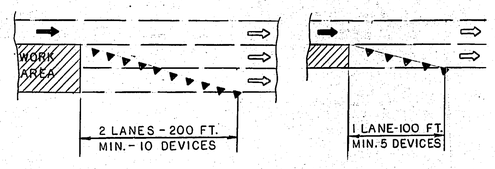
TWO WAY TRAFFIC TAPER



TWO LANE TRAFFIC TAPER



DOUBLE LANE CLOSURE



CLOSING TAPERS

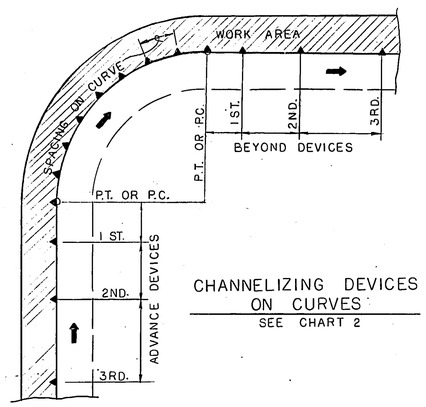
CHANNELIZING TAPER

CHART 1
TAPER LENGTH AND DEVICE SPACING FOR CHANNELIZING TAPERS

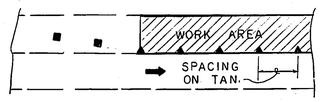
APPRO. SPEED IN M.P.H.	"L" MIN. TAPER LTH. FOR LANE WIDTHS: 10 FT.	11 FT.	12 FT.	MAXIMUM DEVICE SPACING IN FEET	MAX. DEVICE SPACING THRU WORK AREA IN FEET
20	70'	75'	80'	20	10
25	105	115	125	25	20
30	150	165	180	30	30
35	205	225	245	35	50
40	265	295	320	40	100
45	450	495	540	45	100
50	500	550	600	50	100
55	550	605	660	55	100

CHART 2
MAXIMUM SPACING OF CHANNELIZING DEVICES ON CURVES

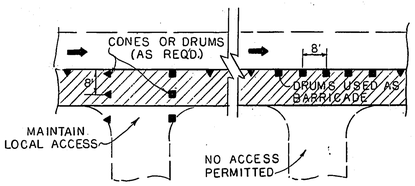
DEGREE OF CURVE	SPACING ON CURVE IN FEET	SPACING IN ADVANCE OF AND BEYOND CURVE IN FEET: 1 ST	2 ND	3 RD
TAN. TO 30'	100	100	100	100
30' TO 2°	75	85	100	100
2° TO 4°	60	70	80	100
4° TO 8°	50	60	70	80
8° TO 16°	40	50	60	70
16° TO 40°	20	30	50	70



CHANNELIZING DEVICES ON CURVES
SEE CHART 2



DEVICE SPACING THRU WORK AREA ON TANGENT
SEE CHART 1



DEVICE SPACING AT SIDEROADS AND APPROACHES

LEGEND

DRUMS

CONES OR DRUMS SEE NOTE 4

0

FINAL PLANS

TRAFFIC CONTROL PLAN

CHANNELIZING DEVICES SPACING AND TAPERS.

SPECIAL SHEET 8 OF 20

ORIGINAL SURVEY: SURVEYED, PLOTTED, NOTE BOOK, AREAS, AREAS CHECKED, BY, DATE, NO.

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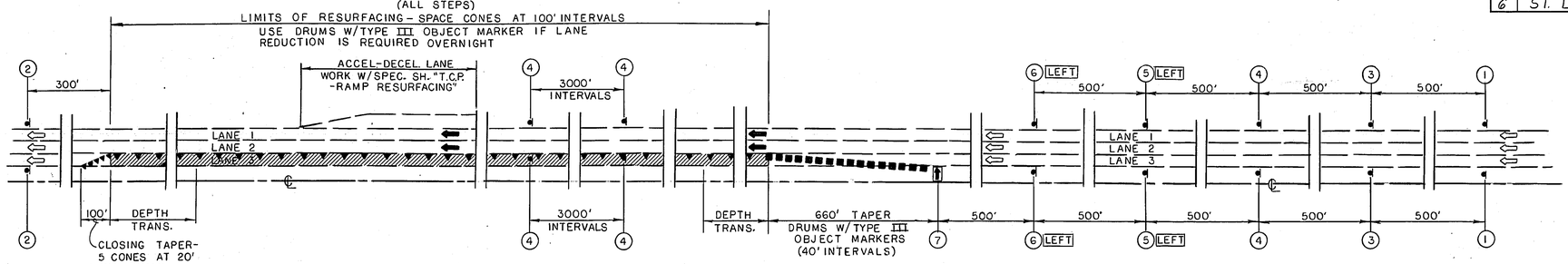
1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	14
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	270	

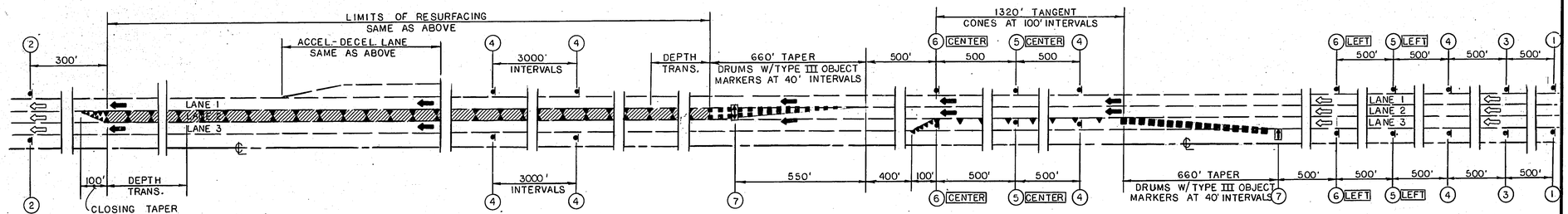
FINAL PLANS

(ALL STEPS)
LIMITS OF RESURFACING - SPACE CONES AT 100' INTERVALS
USE DRUMS W/TYPE III OBJECT MARKER IF LANE REDUCTION IS REQUIRED OVERNIGHT

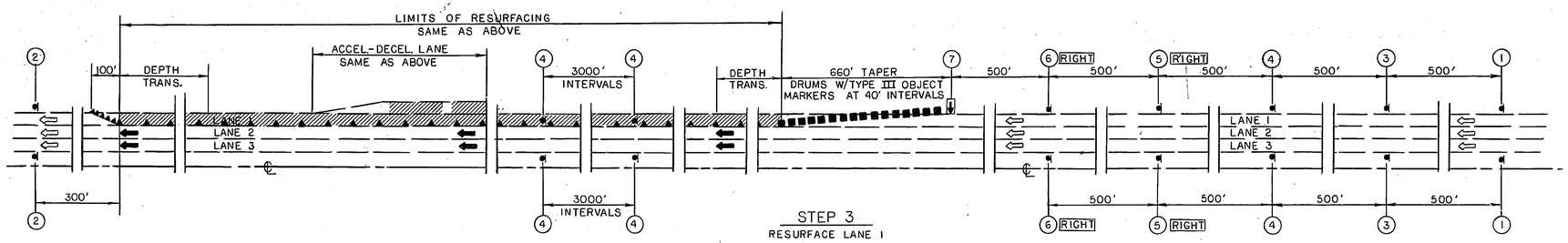


STEP 1
RESURFACE LANE 3

NOTE: USE SAME SEQUENCE FOR RESURF. MED. LANE ON 2 LANE DIVIDED HWY.



STEP 2
RESURFACE LANE 2



STEP 3
RESURFACE LANE 1

NOTE: USE SAME SEQUENCE FOR RESURF. OUTSIDE LANE ON 2 LANE DIVIDED HWY.

① G20-1 ROAD CONSTRUCTION NEXT MILES
W20-1 ROAD CONSTRUCTION AHEAD
IF PROJECT LENGTH IS:
2 MILES OR MORE, USE G 20-1
OR
LESS THAN 2 MILES, USE W 20-1

② G20-2 END CONSTRUCTION

③ R2-5 REDUCED SPEED AHEAD
USE R2-5 ONLY WHEN SPEED REDUCTION IS 20 M.P.H. OR GREATER BELOW NORMAL SPEED LIMIT.

④ R2-1 SPEED LIMIT
USE R2-1 EVERY 3000 FT. THRU PROJECT LIMITS.

⑤ W20-5 RIGHT LANE CLOSED AHEAD
OR LEFT OR CENTER
⑥ W20-6 RIGHT LANE CLOSED

⑦ FLASHING ARROW PANEL

SYMBOLS
- CONES (OR DRUMS)
- DRUMS W/ TYPE III OBJECT MARKERS
- SIGNS
- AREA RESURFACING

TRAFFIC CONTROL PLAN

RESURFACING DIVIDED HIGHWAY

WORK W/ SPEC. SH. "T.C.P.-RAMP RESURFACING"

FINAL PLANS

SPECIAL SHEET 9 OF 20

Rev 1 Apr. 83

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED

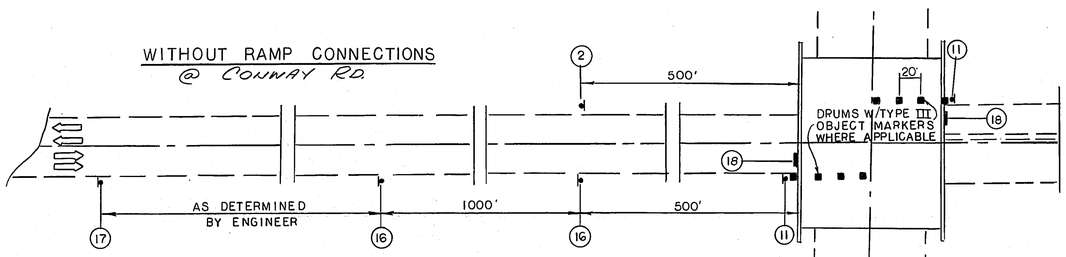
9 22C

1167 24 TO 1

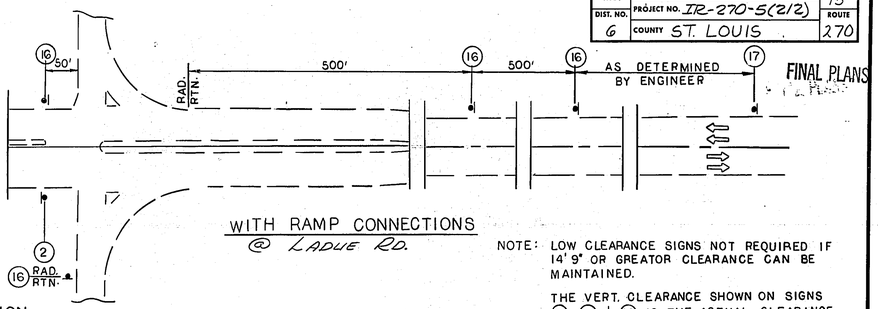
STATE MO.	JOB NO. G-I-270-422C	SHEET NO. 15
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

WITHOUT RAMP CONNECTIONS
@ CONWAY RD.



SIGN (17) SHOULD BE PLACED AT THE NEAREST INTERSECTION OR WIDE POINT WHERE A VEHICLE CAN DETOUR OR TURN AROUND.

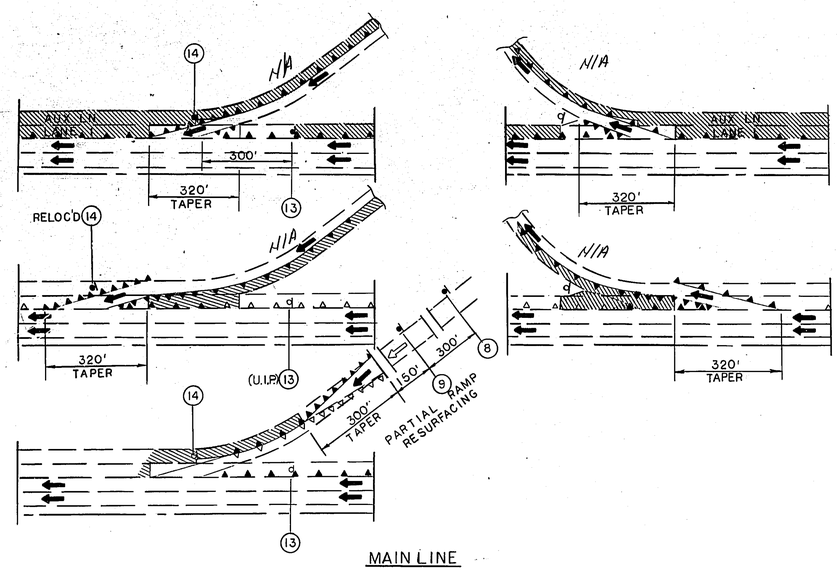


WITH RAMP CONNECTIONS
@ LADUE RD.

VERTICAL CLEARANCE ON BRIDGE CONSTRUCTION

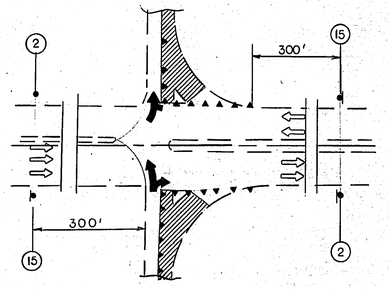
NOTE: LOW CLEARANCE SIGNS NOT REQUIRED IF 14'9" OR GREATOR CLEARANCE CAN BE MAINTAINED.

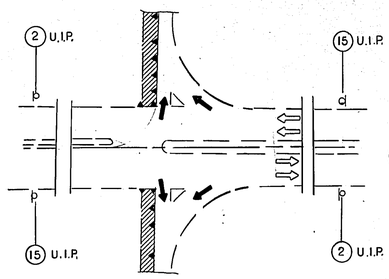
THE VERT. CLEARANCE SHOWN ON SIGNS (16), (17) & (18) IS THE ACTUAL CLEARANCE MINUS 2 IN.



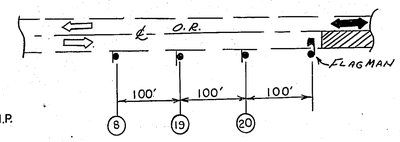
MAIN LINE

RAMP RESURFACING





CROSSROAD
N/A



RESURF. OUTER ROADWAY
COEUR DE VILLE DR & EMERSON RD.

(2) G20-2 END CONSTRUCTION

(8) W20-1 ROAD CONSTRUCTION AHEAD

(9) W5-1 ROAD NARROWS

(11) W20-9 OPEN TRENCH

(13) W4-1R

(14) YIELD R1-2

(15) W20-1 RAMP CONSTRUCTION AHEAD PLAQUE

(16) 'B' W.L. W12-2 13' 4" LOW CLEARANCE W12-2x 16 ea

(17) W25-2a MILES W12-2 13' 4" LOW CLEARANCE W12-2 x 4 ea

(18) 13 FT. 4 IN. W12-3 W/2 ea. 'B' W.L. MOUNTED ON FALSEWORK OR BRIDGE 4 ea

(20) FLAGMAN AHEAD W20-7 4 ea.

(19) BE PREPARED TO STOP W3-4 4 ea.

SYMBOLS

- CONES (OR DRUMS)
- DRUMS W/ TYPE III OBJECT MARKERS
- SIGNS
- AREA RESURFACING

TRAFFIC CONTROL PLAN

VERTICAL CLEARANCE ON BRIDGE CONSTRUCTION

RAMP RESURFACING

FINAL PLANS

SPECIAL SHEET 10 OF 20

Rev: 1 Apr 83

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

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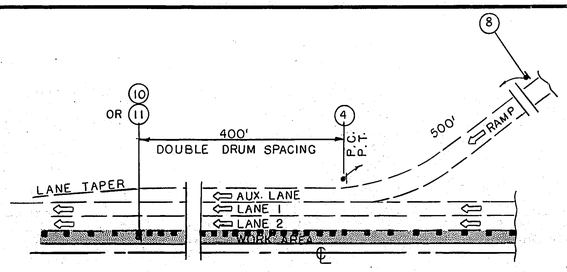
1167 24 TO 1

FED. ROAD DIV NO	STATE	JOB NO. 6-I-270-422C	SHEET NO
7	MO.	PROJ. NO. IR-270-5(212)	16
DIST NO	COUNTY	ROUTE	SEC
6	ST. LOUIS	270	

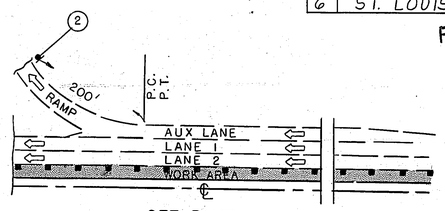
FINAL PLANS

LOW SHOULDER - OPEN TRENCH
MEDIAN LANE CONSTRUCTION

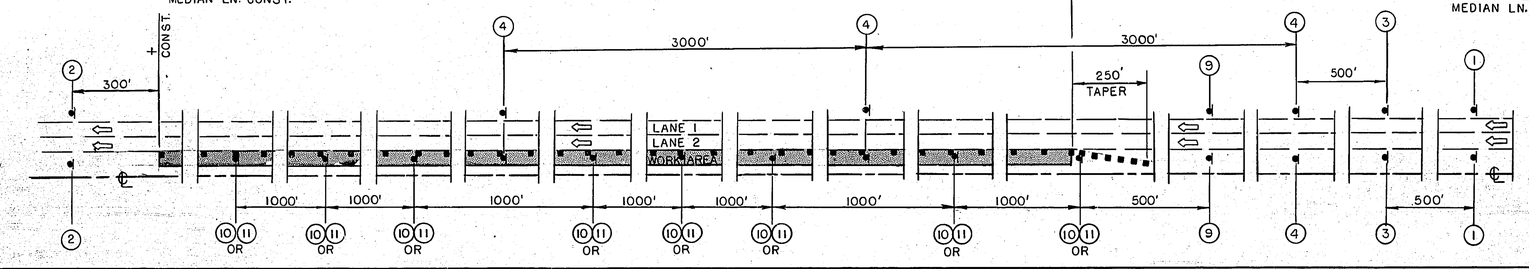
NOTE: 1) SEE SPECIAL SHEET "T.C.P. - CHANNELIZING DEVICES" FOR DRUM SPACING.
2) OPEN TRENCH WORK AREA SHALL BE LIMITED TO NOT MORE THAN 1½ MILES IN LENGTH AND LIMITED TO ONE SIDE OF THRU LANES AT A TIME.



ON RAMP
MEDIAN LN. CONST.



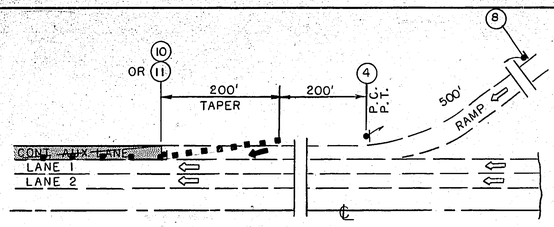
OFF RAMP
MEDIAN LN. CONST



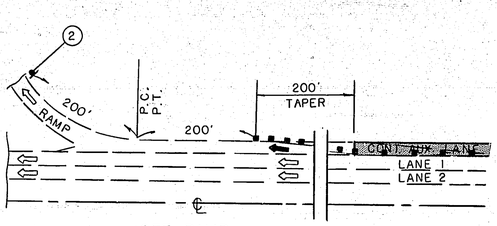
MEDIAN LANE

LOW SHOULDER - OPEN TRENCH
CONTINUOUS AUXILIARY LANE CONSTRUCTION

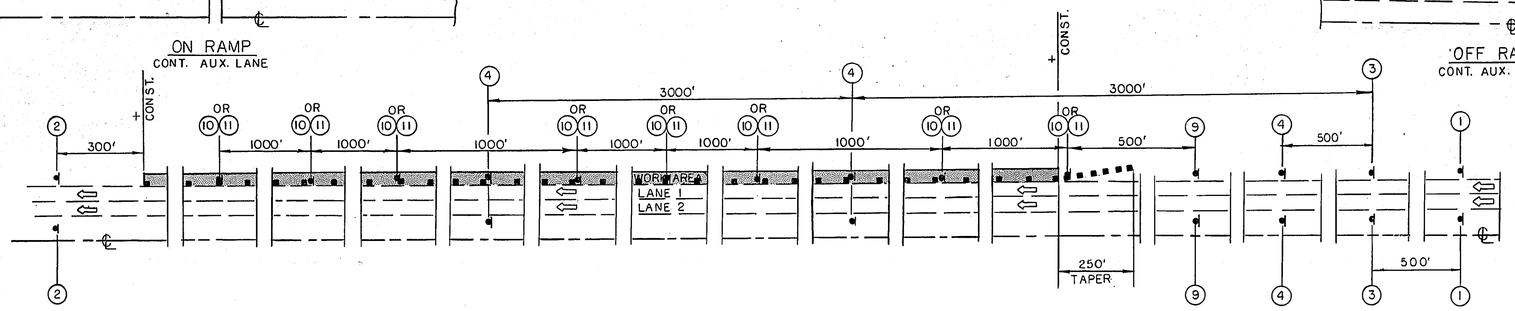
NOTE: SEE NOTES 1) AND 2) ABOVE.



ON RAMP
CONT. AUX. LANE



OFF RAMP
CONT. AUX. LANE



CONT. AUX. LANE

G20-1 (1) ROAD CONSTRUCTION NEXT MILES

IF PROJECT LENGTH IS:
2 MILES OR MORE, USE G20-1
OR
LESS THAN 2 MILES, USE W 20-1

W20-1 ROAD CONSTRUCTION AHEAD

G20-2 (2) END CONSTRUCTION

(3) R2-5 REDUCED SPEED AHEAD
USE R2-5 ONLY WHEN SPEED REDUCTION IS 20 M.P.H. OR GREATER BELOW NORMAL SPEED LIMIT

(4) R2-1 SPEED LIMIT
R2-1 EVERY 3000 FT. THRU PROJECT LIMITS

(8) W20-1 ROAD CONSTRUCTION AHEAD

(9) W5-1 ROAD NARROWS
USE W5-1 ONLY WHEN DRUMS/CONES ARE PLACED ON E.P. OF THRU-LANE.

(10) W8-9 LOW SHOULDER
USE W8-9 WHEN DROP AT E.P. IS 2" TO 3".(EVERY 1000' THRU WORK AREA LIMITS.

(11) W20-9 OPEN TRENCH
USE W20-9 WHEN DROP AT E.P. IS 3" OR GREATOR.(EVERY 1000' THRU WORK AREA LIMITS)

SYMBOLS
- WORK AREA
- DRUMS W/TYPE III OBJECT MARKER
- SIGNS

TRAFFIC CONTROL PLAN
LOW SHLDR.-OPEN TRENCH
MEDIAN LANE & AUXILIARY LANE CONST.
FINAL PLANS
SPECIAL SHEET 11 OF 20

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE

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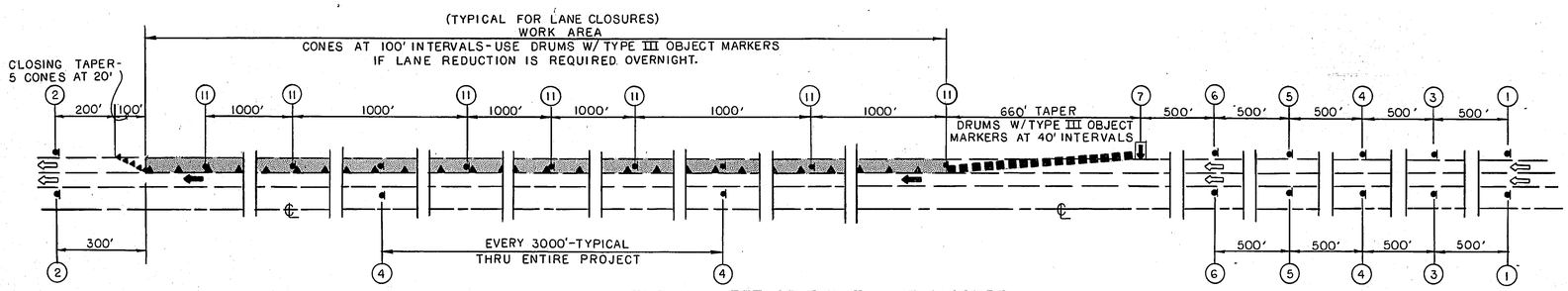
Rev 1 Apr 83

1167 24 TO 1

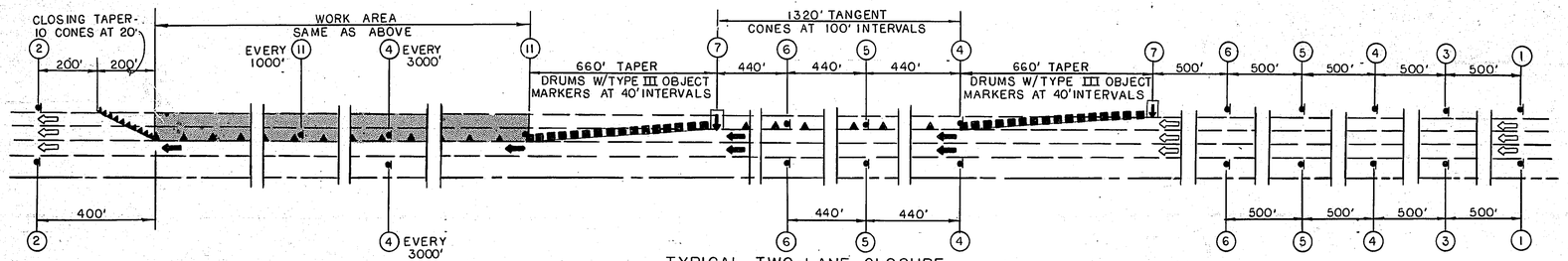
FED. ROAD DIV. NO.	STATE	JOB NO. G-I-270-422C	SHEET NO.
7	MO.	PROJ. NO. IR-270-5(212)	17
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	270	

FINAL PLANS

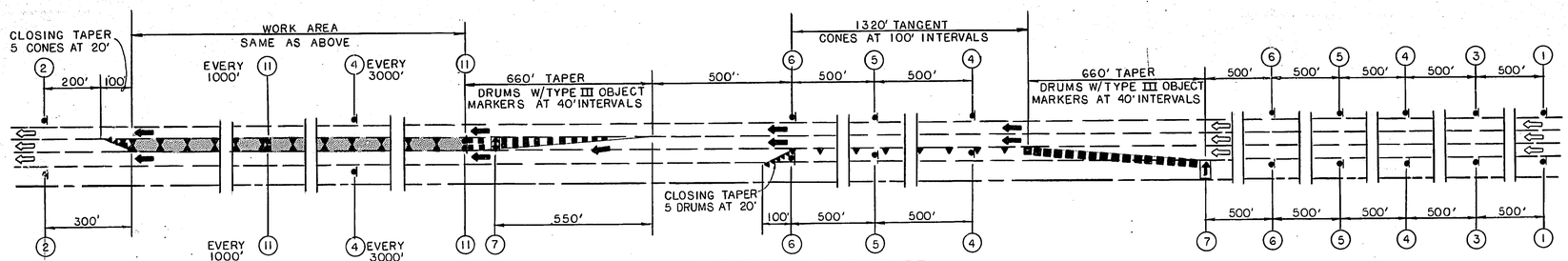
(TYPICAL FOR LANE CLOSURES)
WORK AREA
CONES AT 100' INTERVALS - USE DRUMS W/ TYPE III OBJECT MARKERS IF LANE REDUCTION IS REQUIRED OVERNIGHT.



TYPICAL LEFT OR RIGHT LANE CLOSURE



TYPICAL TWO-LANE CLOSURE



TYPICAL CENTER LANE CLOSURE

① G20-1 ROAD CONSTRUCTION NEXT MILES
W20-1 ROAD CONSTRUCTION AHEAD

IF PROJECT LENGTH IS:
2 MILES OR MORE, USE G 20-1
OR
LESS THAN 2 MILES, USE W 20-1

② G20-2 END CONSTRUCTION

③ R2-5 REDUCED SPEED AHEAD
USE R2-5 ONLY WHEN SPEED REDUCTION IS 20 M.P.H. OR GREATER BELOW NORMAL SPEED LIMIT.

④ R2-1 SPEED LIMIT
USE R2-1 EVERY 3000 FT. THRU PROJECT LIMITS.

⑤ W20-5 RIGHT LANE CLOSED AHEAD
OR LEFT OR CENTER
⑥ W20-6 RIGHT LANE CLOSED

⑦ FLASHING ARROW PANEL

⑪ W20-9 OPEN TRENCH
USE W20-9 WHEN DROP AT E.P. IS 3" OR GREATER (EVERY 1000' THRU WORK AREA LIMITS)

SYMBOLS
- CONES (OR DRUMS)
- DRUMS W/TYPE III OBJECT MARKERS
- SIGNS
- WORK AREA

TRAFFIC CONTROL PLAN

LANE CLOSURES
DIVIDED HIGHWAY

FINAL PLANS

SPECIAL SHEET 12 OF 20

REV. 1 APR. 83

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

2229

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1167 24 TO 1

STATE	JOB NO. G-I-270-422 C	SHEET NO.
MO.		18
DIST. NO.	PROJECT NO. IR-270-5(212)	ROUTE
6	COUNTY ST LOUIS	I-270

FINAL PLANS

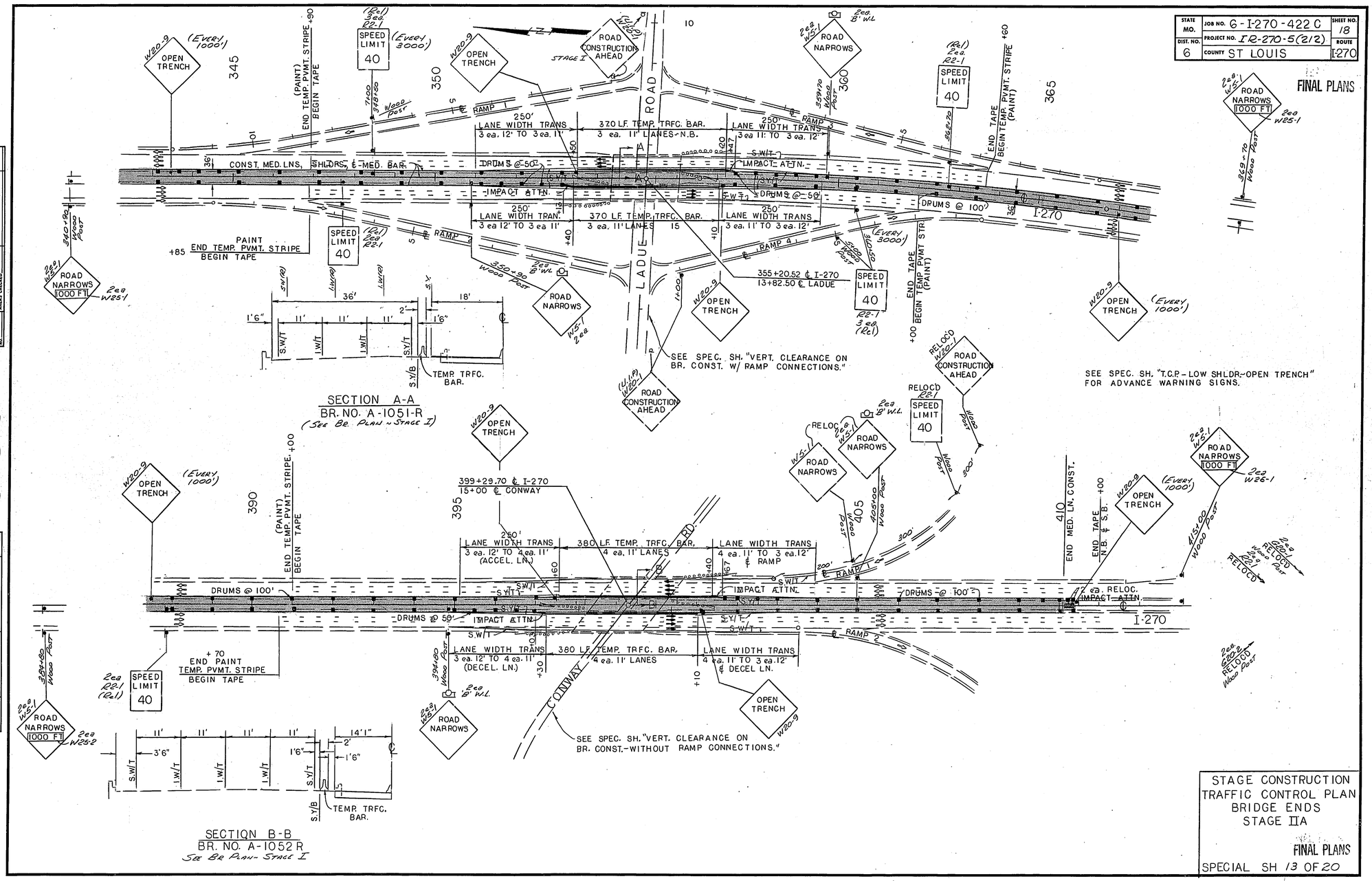
ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

23-30

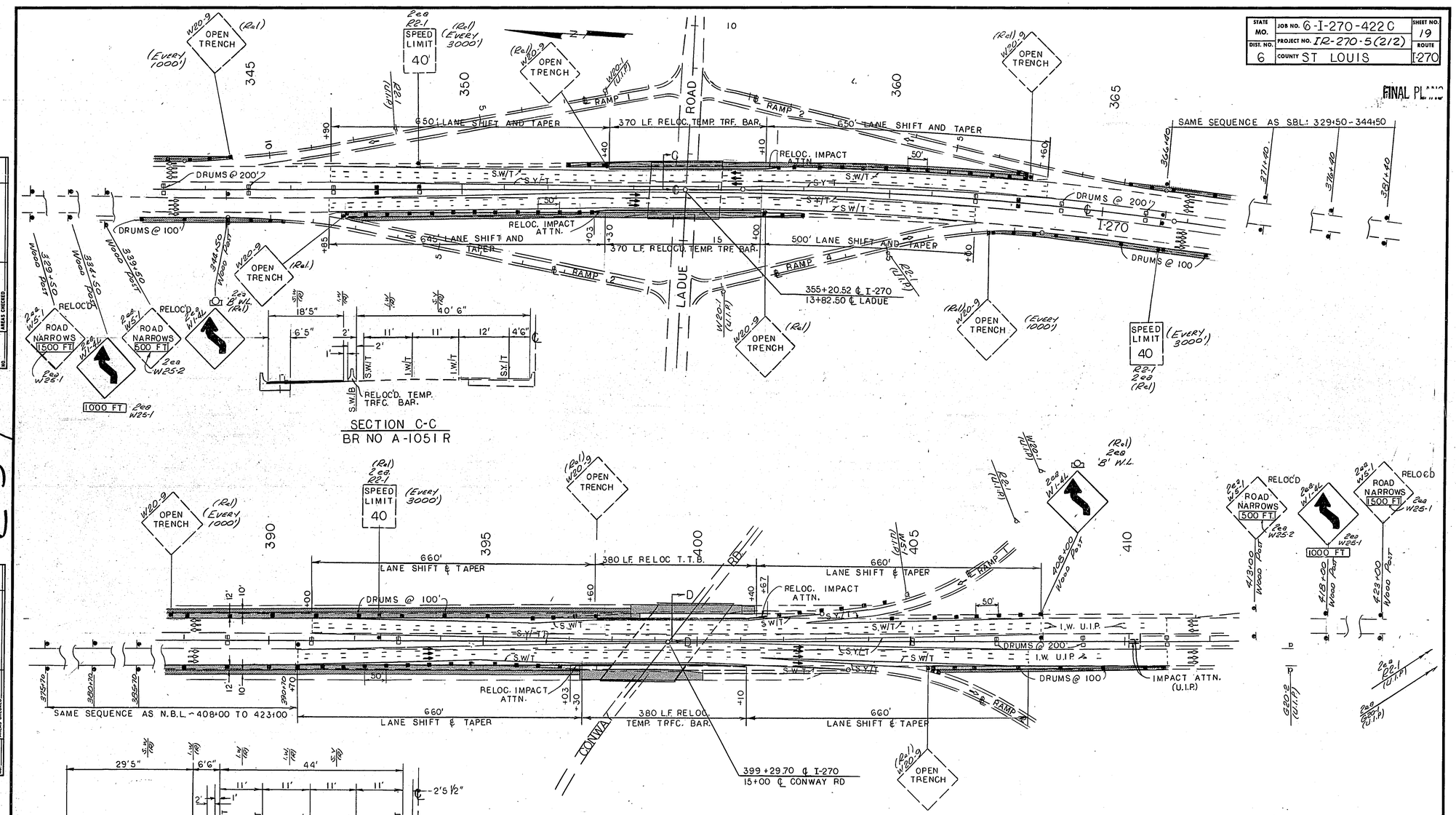
392

1167 24 TO 1



STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 19
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE
	COUNTY ST LOUIS	I-270

FINAL PLANS



STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
BRIDGE ENDS
STAGE IIB

FINAL PLANS

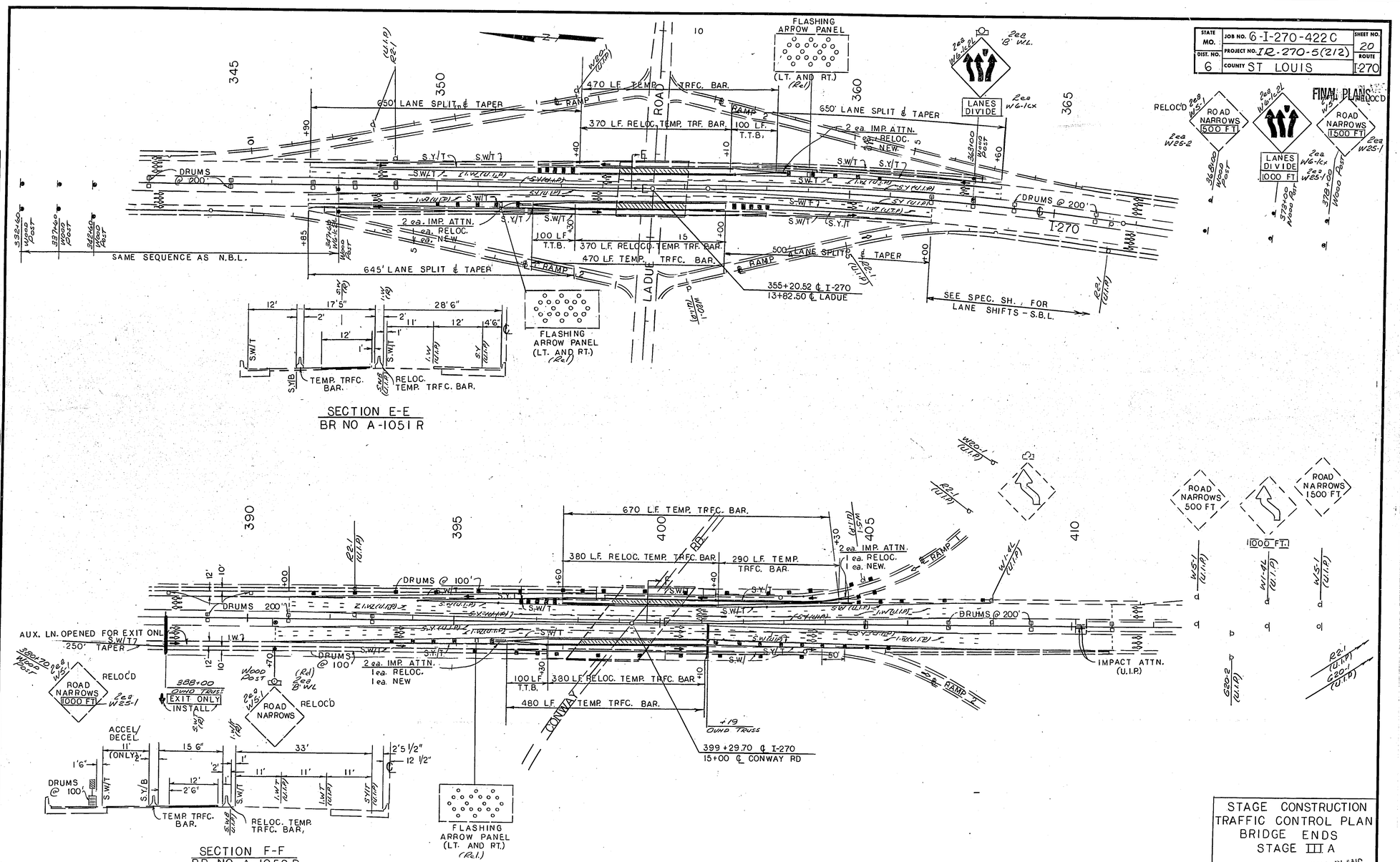
SPECIAL SH. 14 OF 20

1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 20
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED BY	DATE
NOTE BOOK	PLOTTED BY	
NO.	TEMPLATE	
	AREAS	
	AREAS CHECKED	



ORIGINAL SURVEY	SURVEYED BY	DATE
NOTE BOOK	PLOTTED BY	
NO.	TEMPLATE	
	AREAS	
	AREAS CHECKED	

232

STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
BRIDGE ENDS
STAGE III A

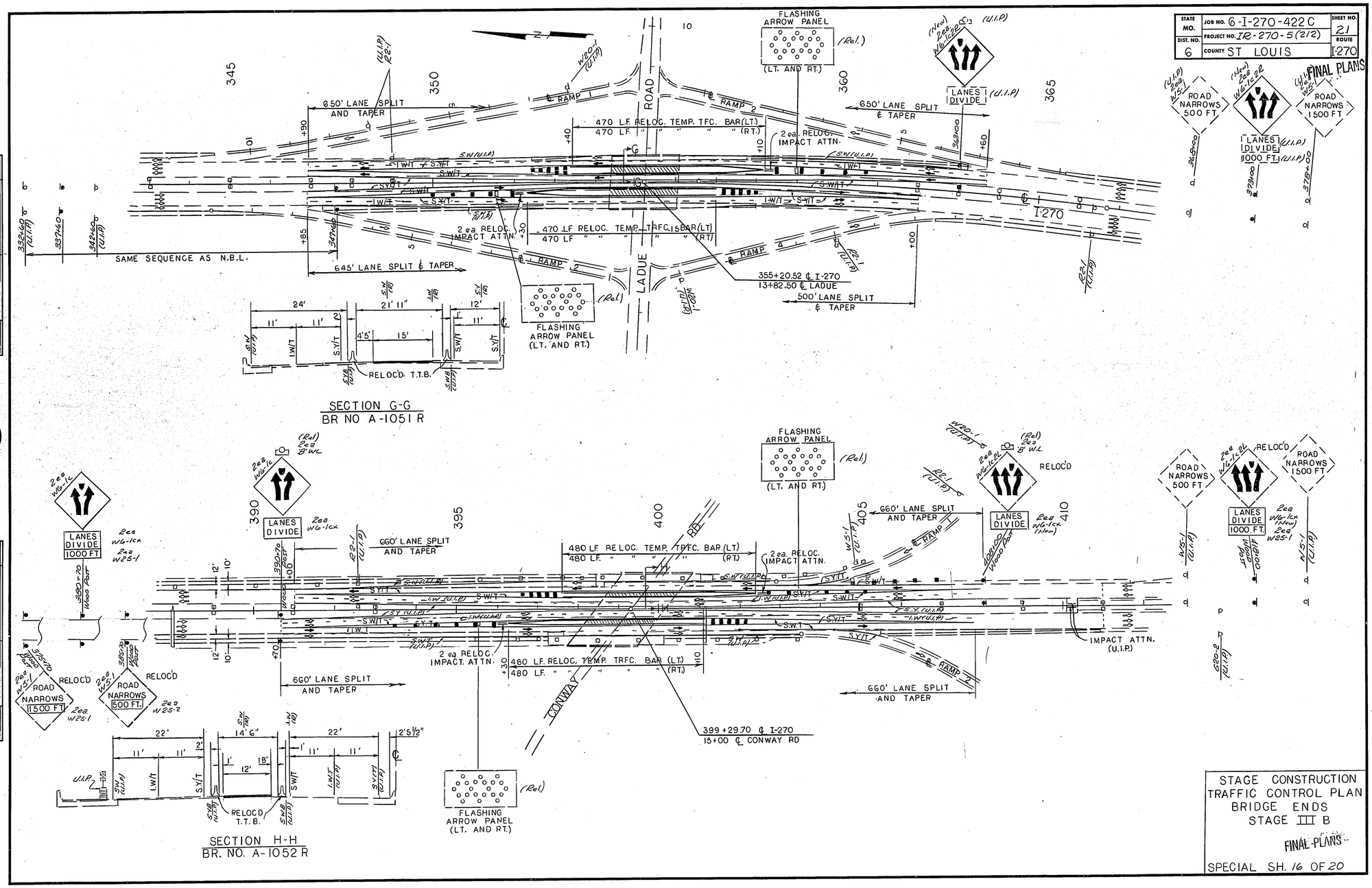
FINAL PLANS

SPECIAL SH. 15 OF 20

1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422 C	SHEET NO. 21
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS



STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
BRIDGE ENDS
STAGE III B

FINAL PLANS

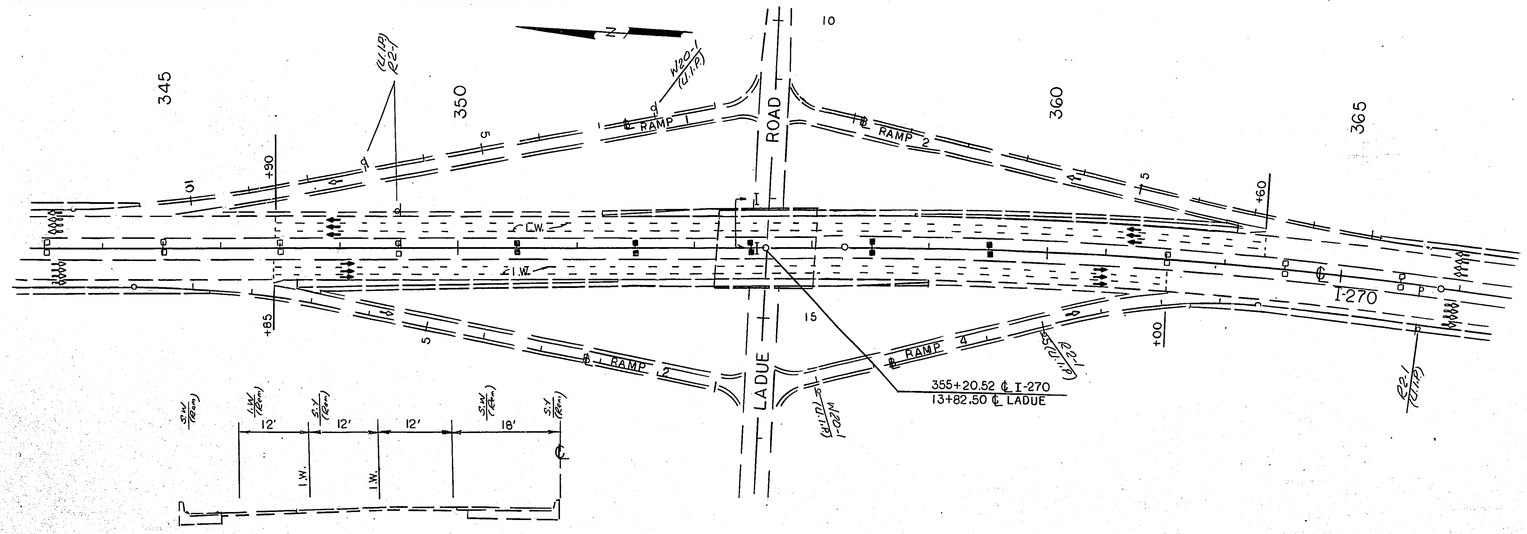
SPECIAL SH. 16 OF 20

1167 24 TO 1

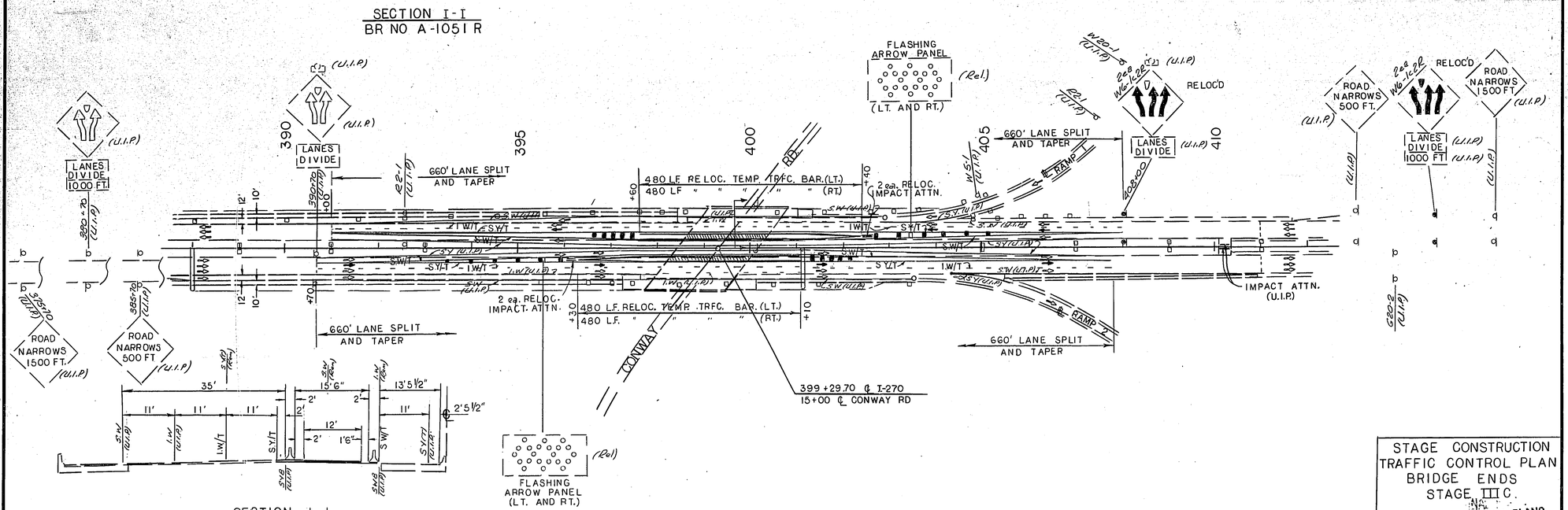
STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 22
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



SECTION I-I
BR NO A-1051 R



SECTION J-J
BR. NO. A-1052 R

STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
BRIDGE ENDS
STAGE III C.

FINAL PLANS

SPECIAL SH. 17 OF 20

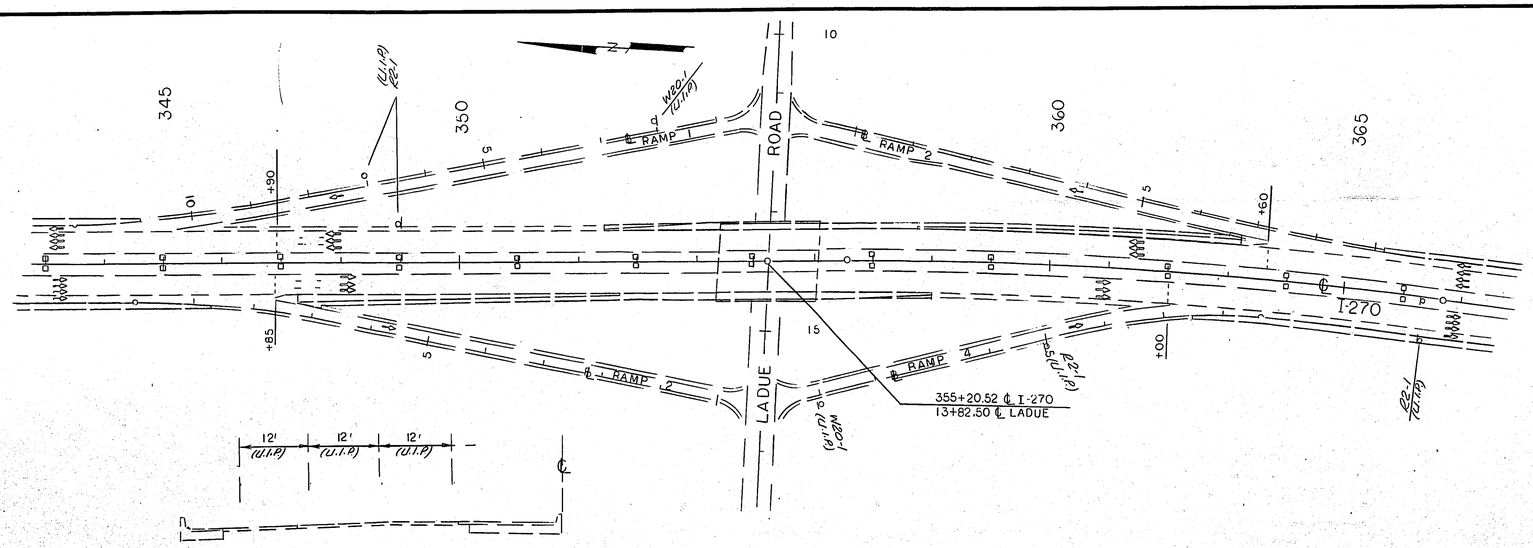
ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

234

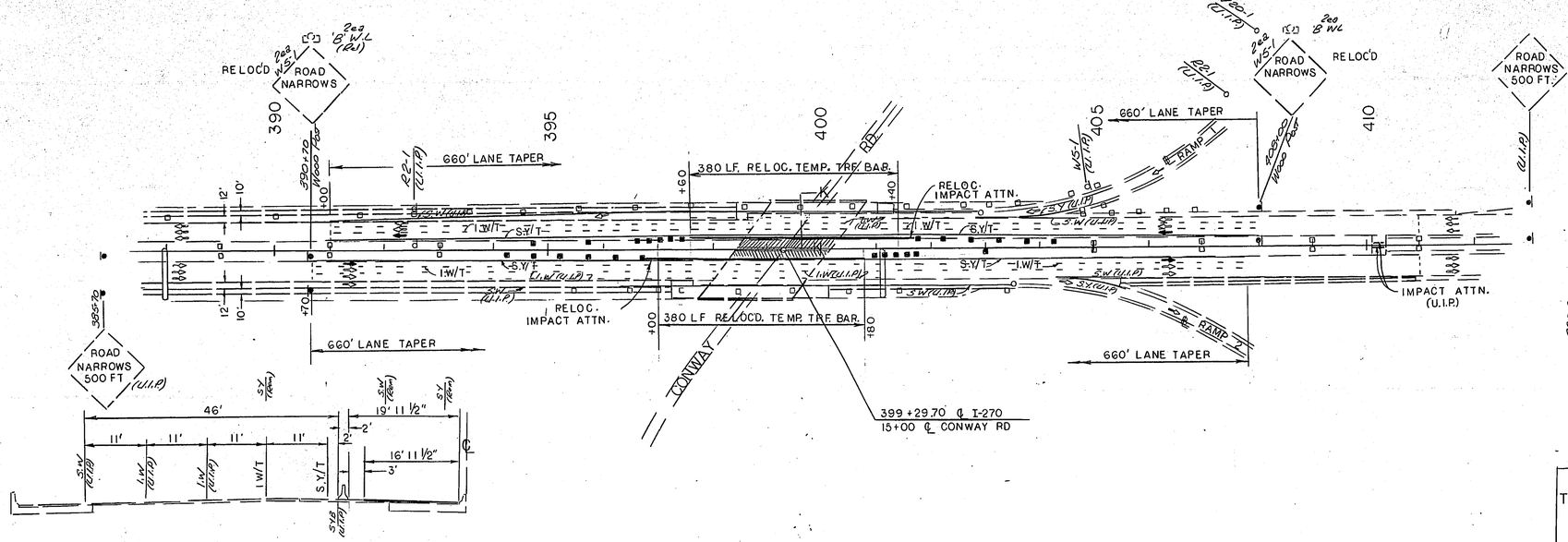
1167 24 TO 1

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 23
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS



SECTION
BR NO A-1051 R



SECTION K-K
BR. NO. A-1052 R

STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
BRIDGE ENDS
STAGE III.D

FINAL PLANS
SPECIAL SH. 18 OF 20

235

1167 24 TO 1

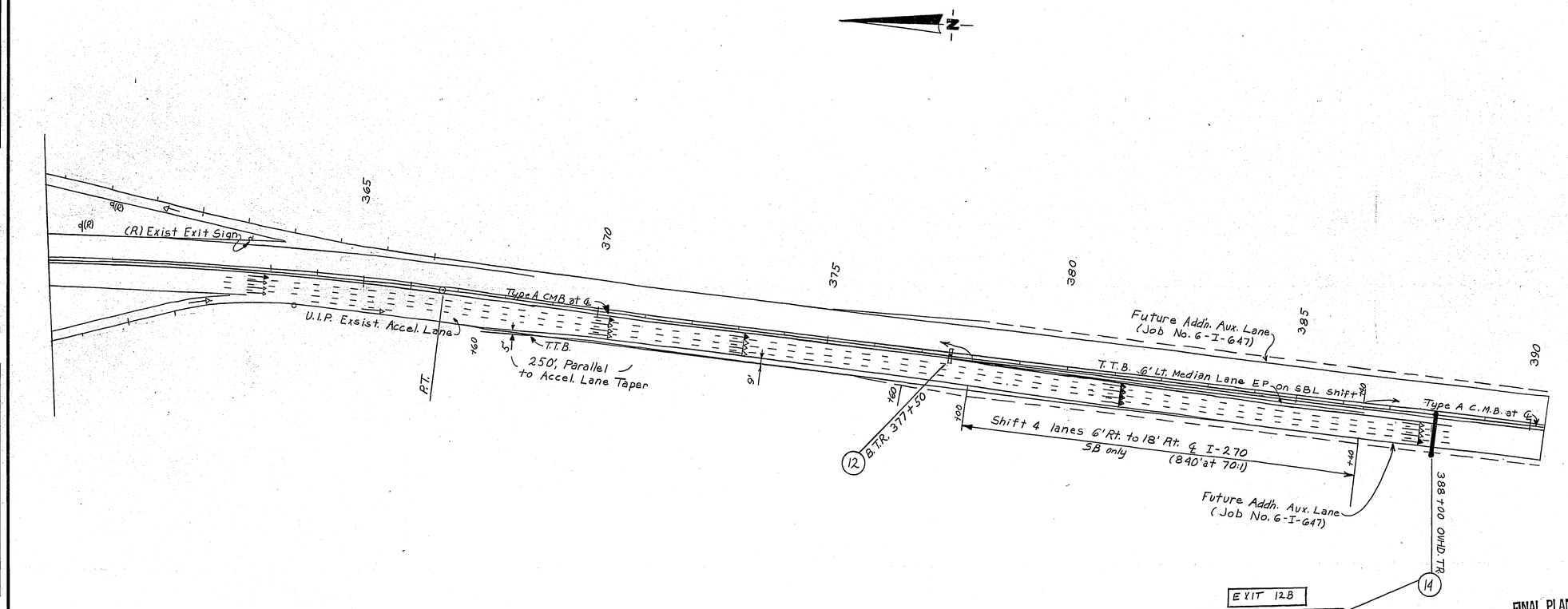
STATE MO.	JOB NO. 6-I-270-44C	SHEET NO. 24
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

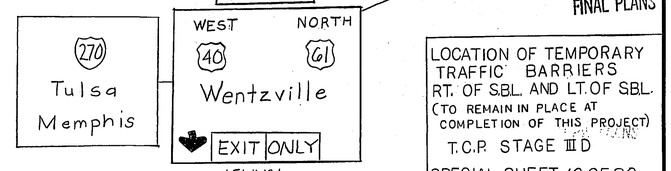
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

236

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



FINAL PLANS



LOCATION OF TEMPORARY TRAFFIC BARRIERS
RT. OF S.B.L. AND LT. OF S.B.L.
(TO REMAIN IN PLACE AT COMPLETION OF THIS PROJECT)
T.C.P. STAGE III D
SPECIAL SHEET 19 OF 20

1167 24 TO 1

SP-31

SPECIAL SIGN DETAIL SHEET

FED ROAD DIV NO	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO
7	MO.	IR-270-5(212)	25
DIST NO	COUNTY	ROUTE	SEC
6	ST. LOUIS	270	

SHEET 20 of 20

6-I-270-422C

FINAL PLANS

SIGN NO. W06-1cx
STATION See T.C.P.
QUANTITY REQ'D
OVERALL SIZE WIDTH 2 FT, HEIGHT 1.5 FT
BORDER WIDTH 1 IN, RADII 1/2 IN
BACKGROUND TYPE Reflect. ND, COLOR Orange
LEGEND COPY TYPE LI, COLOR Black, BORDER TYPE LI, ROUTE, MARKER TYPE, PANEL TYPE SHR1, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES ~~ROUNDS~~
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN.
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY
SCALE

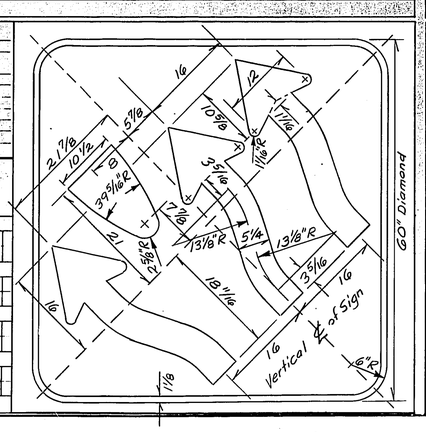
Educational Plaque for W06-1c2R or 2L

LANES
DIVIDE

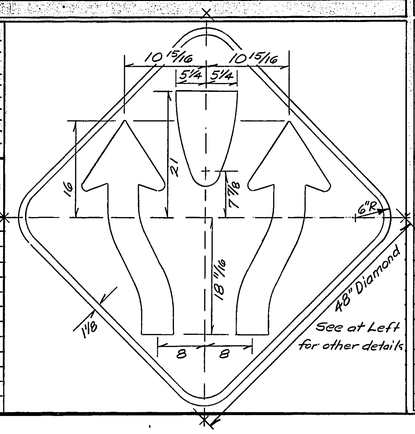
4" Series 'D' Letters

	SPACE	COPY SIZE	COPY	SPACE
LINE 1	3¾	4"UC	L A N E S	3.86 2.69 4.09 3.63 3.19 2.69 3.85
LINE 2	2½	4"UC	D I V I D E	3.81 3.63 1.37 3.75 1.56 3.63 2.44 3.81
LINE 3	3¾			
LINE 4				

SIGN NO. W06-1c2R
STATION See T.C.P.
QUANTITY REQ'D
OVERALL SIZE WIDTH 5 FT, HEIGHT 5 FT
BORDER WIDTH 1/8 IN, RADII 6 IN
BACKGROUND TYPE Reflect. COLOR Orange
LEGEND COPY TYPE LI, COLOR Black, BORDER TYPE LI, ROUTE, MARKER TYPE, PANEL TYPE SHR1, POST SIZE
Reverse for W06-1c2L



SIGN NO. W06-1c
STATION See T.C.P.
QUANTITY REQ'D
OVERALL SIZE WIDTH 4 FT, HEIGHT 4 FT
BORDER WIDTH 1/8 IN, RADII 6 IN
BACKGROUND TYPE Reflect. COLOR Orange
LEGEND COPY TYPE LI, COLOR Black, BORDER TYPE LI, ROUTE, MARKER TYPE, PANEL TYPE SHR1, POST SIZE



FINAL PLANS

1167 24 TO 1

FED ROAD DIV NO	STATE	JOB NO. G-I-270-422C	SHEET NO
7	MO.	PROJ. NO. IR-270-5(212)	26
DIST NO	COUNTY	ROUTE	SEC
6	ST. LOUIS	270	C

FINAL PLANS

Note;
Control Station 'J' 332+80, 215' Rt.
240v Multiple Circuit, Base Mount.
10 KVA.
Coil 60' Cable-Conduit @ U.E. Pole
for connection by Utility Co. (#2 AWG)

FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	TEMPLATE	
	AREAS	
	AREAS CHECKED	
NO.	REVISIONS	

ORIGINAL GRADE | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | DATE | BY | NO. | REVISIONS

238

4338

JOB NO. G-I-270-422B | JOB NO. G-I-270-422C

Olive Blvd EXIT ONLY 12x8.5' (b) — 7.5x2 EXIT 14 (a) — 340

Olive Blvd ½
Page Ave 2½
Dorsett Rd 3¼
16.5x7 (b)

Ladue Rd ½
US 40-61 1¾
Manchester Rd 4
17.5x7 (a)

AB Ladue Rd EXIT ONLY 12x8' (b) — 7.5x2 EXIT 13 (a)

Ladue Rd ¼
Olive Blvd 1¼
Page Ave 3½
15.5x7 (b)

US 40-61 ¾
Manchester Rd 3
Big Bend Rd 5½
17.5x7 (a)

Tulsa
Memphis
12x11 (a)

WEST 40 | NORTH 61
Wentzville
St Louis
EXIT ONLY
15x12.5' (c)

Future Sign 6.5x7.5' (c)
LANE ENDS MERGE LEFT

SPEED LIMIT 55 MINIMUM 40 — 4x5 (a) / 4x3 (b)

2x1 2.5x2 NORTH 270 — 332+00
2x1 2.5x2 SOUTH 270 — 316+50

Exit 12B (b) — 9x2

Exit 13 (a) — 7.5x2

Exit 14 (a) — 7.5x2

Exist. R/w

I-270

2 Lights, 250w

5 Lights, 250w

2" Conduit, Pushed 90'

2" Conduit, Pushed 40'

Extend #8 AWG 2" Conduit 20' Beyond E.P.

Outer Rd.

Controller

Circuit M-1

#8 AWG

2" R.S. Conduit Pushed 40'

New Circuit M-2 #8 AWG

Abandon

Conway Road

Coil 60' #2 AWG Cable-Conduit at base UE, pole for Utility Co. connection

Control Station 'M' 399+28, 137' Rt.
240v Multiple Circuit Base Mount.
Remove exist. pole-mounted controller at 399+28, 147' Rt. U/G exist. MHTD pole, install new cable from exist. pole to new controller for power. (#2 AWG).
Coil 60' Cable-Conduit at base of MHTD pole for connection by Utility Co. (#2 AWG).

Control Station 'L' 377+50, 150' Lt.
240v Multiple Circuit, Base Mount.
10 KVA.

Future Legend

Temp. Traffic Barrier

Type 'A' C.M.B. @ ℄

Std. 40:1 Barrier Transition Temp. Traffic Barrier

Shift 4 Lanes R(R) 12' to Rt. Southbound Only

Butterfly Truss

Ovhd Truss

MILE 1 3 — 1x3

386+18 Rt & Lt

309+00

Match Line See Sheet 11C

371+00 Match Line See Sheet 11C

340+00 Match Line See Sheet 12C

LIGHTING LEGEND

- 400w High Pressure Sodium Vapor Luminaire,
- Concrete Pull Box
- Control Station
- Existing Cable Conduit
- Cable Conduit
- Rigid Steel Conduit, Pushed 2" Unless otherwise shown on plans.
- Power Pole

FINAL PLANS

LIGHTING & SIGNING SHEET 1 OF 13

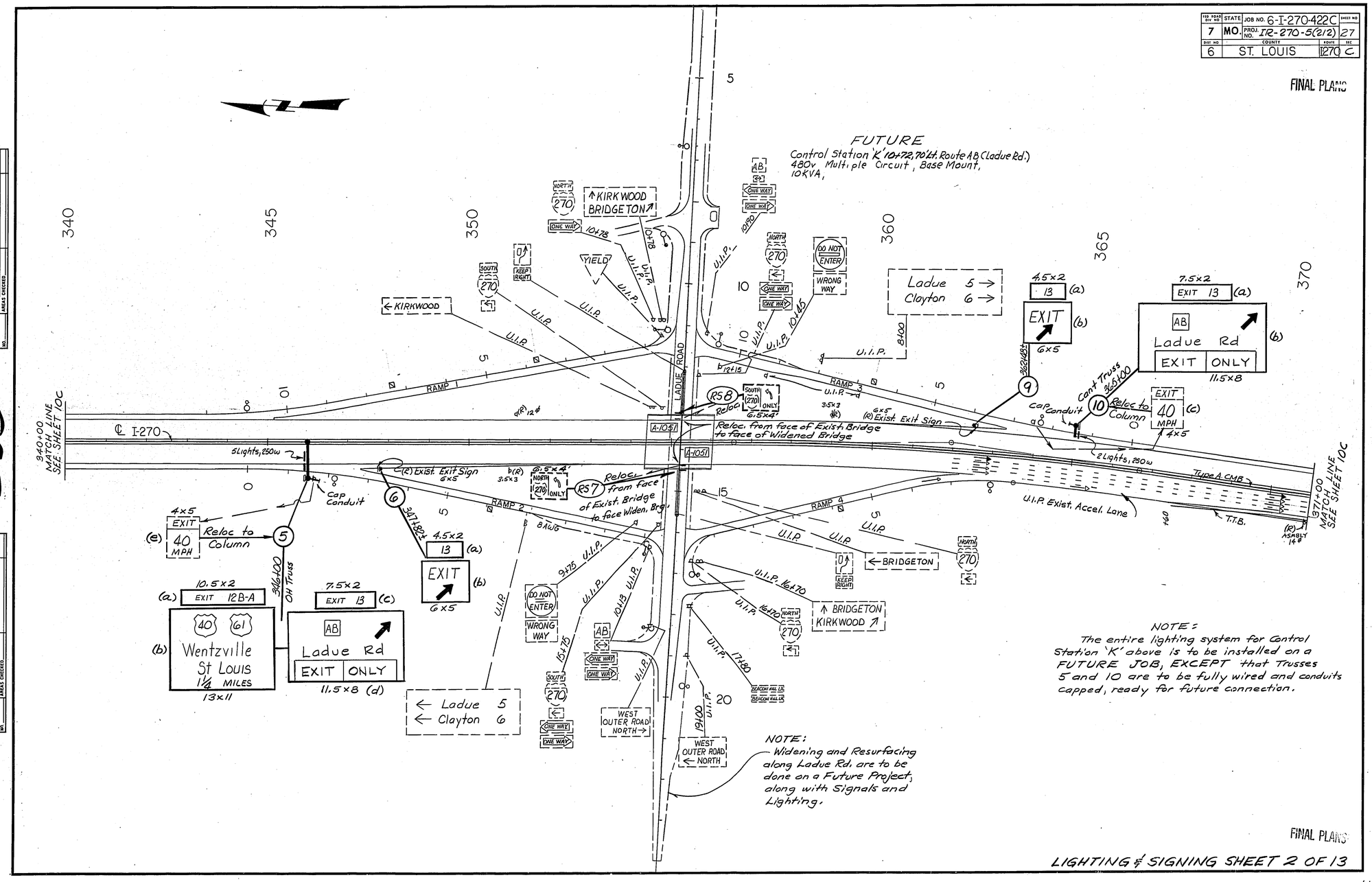
Signs 1-4, 11-15

10c

1167 24 TO 1

FED. ROAD DIST. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO
7	MO.	PROJ. NO. IR-270-5(212)	27
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	270	C

FINAL PLANS



FINAL PLANS

LIGHTING & SIGNING SHEET 2 OF 13

Signs 5-10

11C

1167 24 TO 1

FED. ROAD DIV. NO.	STATE	JOB NO. 6-I-270-422C	SHEET NO
7	MO.	PROJ. NO. IR-270-5(212)	28
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	1270	C

FINAL PLANS

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

240

402

SEE SHEET 10C

MATCH LINE 401+00

401+40 Owned Trees

#8 AWG 8 Lights, 250w

Abandon

Relocate Column (16)

EXIT 40 MPH 4x5 (g)

Tulsa Memphis (R) (12)

EAST SOUTH 40 61 St Louis NEXT RIGHT (16)

WEST NORTH 40 61 Wentzville (17)

Reloc. (3)

404+20

405

410

410+10

CITY LIMIT Creve Coeur

℄ I-270

S.Y.

BR 3.5x3

A-1053

End Job No. 6-I-270-422C

RS17

10' CITY LIMIT Town & Country 3'

RAMP 1

RAMP 2

RAMP 3

RAMP 4

RAMP 5

RAMP 6

RAMP 7

RAMP 8

ROUTE 40-61

690

685

680

675

U.I.P.

YIELD

EXIT 30 MPH

WEST NORTH 40 61 Wentzville

LANE ENDS MERGE LEFT

MERGING TRAFFIC

60" YIELD

13' JJ Ballas Rd EXIT 1/4 MILE 8'

4' SPEED LIMIT 55 5'

270 NORTH Chicago

(a) 270 Kansas City Chicago 15.5x11 Future

(b) 9x2 EXIT 12B Future

(c) WEST NORTH 40 61 Wentzville NEXT RIGHT 16x10

9x2 EXIT 12A (d)

EAST SOUTH 40 61 St Louis (e) 15x9

EXIT ONLY (f) Future 15x1.5

5.5x2 (a) 12A (b) EXIT 6x5 Future

4x5 EXIT F Column 50 MPH (e)

432+65 Guard Trees

Exist. R/W

423+00 Begin Job No. 6-I-270-485 Future

425

430

433+00 MATCH LINE SEE SHEET 13C

9x2 New (b) EXIT 12A

EAST SOUTH 40 61 St Louis NEXT RIGHT Reloc 16x10 (c)

9x2 New EXIT 12B (d)

WEST NORTH 40 61 Wentzville (e) 17x9 Reloc.

EXIT ONLY New 17x1.5' (f)

Center Std. Sign E11-1 on New Panel

270 SOUTH Memphis

270 Tulsa Memphis (a) 12x11' New

12.5 270 Chicago

16 WEST NORTH 40 61 Wentzville NEXT RIGHT

15 EAST SOUTH 40 61 St Louis 19

(15)

Notes:
U.I.P. Existing Controller on U.E. Pole @ 432+53, 135' Lt. (240v.)

FINAL PLANS

LIGHTING & SIGNING SHEET 3 OF 13

Signs 16, 17

12C

402

1167 24 TO 1

SP-29
REV. AUG. 1, 1981

FED. ROAD DIV. NO.	STATE	JOB NO.	SHEET NO.
7	MO.	6-I-270-422C; PROJ. NO. IR-270-5(212)	29
DIST. NO. 6	COUNTY: ST. LOUIS	ROUTE: I-270	SEC: C

FINAL PLANS

SIGNS: SIGN NO.	STATION	SIGN DT'L SHT NO.	LOCATION	New SIGN SIZE	PIPE POST* PIPE SIZE IN.	POST NO. 1 LIN. FT.	POST NO. 2 LIN. FT.	TOTAL* LIN. FT.	LBS PER FT.	TOTAL LBS.	STRUCTURAL STEEL POSTS* POST DES. NO.	POST NO. 1 LIN. FT.	POST NO. 2 LIN. FT.	POST NO. 3 LIN. FT.	TOTAL* LIN. FT.	LBS PER FT.	TOTAL LBS.	3 INCH ZEE ASSEMBLY NO. EACH	POST SPACE	TOTAL LBS.	BASE PLATE LBS.	ASSEMBLY CROSS-BARS 2" X 3/8" BARS @ 2.55 LBS/LIN. FT. NO. EACH	LG. IN.	TOTAL LIN. FT.	TOTAL LBS.	BRKAWY ASM. ITEM NO. 903-12.40 EACH	TOTAL STRUCT STL. POST ITEM NO. 903-12.10 POUNDS	TOTAL PIPE POST ITEM NO. 903-12.20 POUNDS	CONC. FTG'S EMBD ITEM NO. 903-10.10 CU. YDS.	CONC. FTG'S BOLT DOWN ITEM NO. 903-10.20 CU. YDS.	BRKAWY ASM. MULTI DIR'L ITEM NO. 903-12.40 EACH	HORZ CLEAR IF NOT STD
1	323+00	—	I-270 Lt.	4x5, 4x3	—						1	18.75	19.08	—	37.83	8.5	321.6									2	322	—	0.28	—		
2	325+90		" ℄	17.5x7, 16.5x7	Butterfly Truss																					—	—	—	—	16.5		
3	332+00	—	" Lt.	ASMBLY	—						1	11	—	—	11	8.5	93.5									1	94	—	0.14	—		
4	332+80		" Rt.	7.5x2, 12x8	Cant. Truss																					—	—	—	—	16.9		
5	346+00		" ℄ to Rt.	10.5x2, 7.5x2, 13x11, 11.5x8	Overhead Truss (4x5 Reloc. to Column)																					—	—	—	—	33.5		
6	347+82±	—	" Rt.	4.5x2, 6x5							1	17.67	18.5	—	36.17	8.5	307.4									2	307	—	0.28	—		
RS7	355+20±	—	" Rt.	—	(Reloc. 6.5x4 to Widened Bridge Face A-1051R)																					—	—	—	—	—		
RS8	355+20±	—	" Lt.	—	(Reloc. 6.5x4 to Widened Bridge Face A-1051R)																					—	—	—	—	—		
9	362+48±	—	" Lt.	4.5x2, 6x5							1	18	19.17	—	37.17	8.5	315.9									2	316	—	0.28	—		
10	365+00		" Lt.	7.5x2, 11.5x8	Cant. Truss (4x5 Reloc. to Column)																					—	—	—	—	17.3		
11	375+00	—	" Rt.	ASMBLY	—						1	14.67	—	—	14.67	8.5	124.7									1	125	—	0.14	—		
12	377+50		" ℄	17.5x7, 15.5x7	Butterfly Truss																					—	—	—	—	14.4		
13	385+00	—	" Rt.	4x5, 4x3	—						1	19.83	20.67	—	40.5	8.5	344.3									2	344	—	0.28	—		
14	388+00		" ℄ to Rt.	12x11, 8.5x2, 15x12.5	Overhead Truss																					—	—	—	—	37.1		
15	391+00		" ℄ to Lt.	7.5x2, 12x8	Overhead Truss (Future 6.5x7.5)																					—	—	—	—	39.5		
16	401+40		" ℄ to Rt.	12x11, 9x2, 9x2, 17x11.5	Overhead Truss (Reloc. 16x10, 17x9 & 4x5 to Column)																					—	—	—	—	34.3		
RS17	410+04	—	" Rt.	—	(Reloc. 10x3)						1	14	15.25	—	29.25	8.5	248.6									2	249	—	0.28	—		
																								Totals:	·	1757	—	1.68	·		
																								USE:	12	1760	—	1.7	209.5		

*TOTAL INCLUDES STUB LENGTH WHEN APPLICABLE

DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING & BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.

MILEPOSTS, 12x36" D10-2

Station	Location	Mile No.	Each
386+18	NBL I-270	13	1
"	SBL I-270	13	1
		Total:	2

NOTE:
Trusses 5 and 10 were installed with all luminaires and wiring on truss in place and conduit through concrete pedestals capped as shown.
Actual electrical connections are to be made on a Future Job on Ladue Rd. (Rte. AB).

For Sign Lighting Quantities, See Lighting 2B Sheet.

The following signs were Relocated:
RS 7, RS 8, & RS 17. (82 SQ.FT.)
ITEM 903-99.05-LUMP SUM

ORIGINAL SURVEY / FINAL SURVEY: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ BY ___ DATE ___

1167 24 TO 1

SP-30
REV. AUG. 1, 1981

DIST	STATE	JOB NO	SHEET NO
7	MO.	G-I-270-422C	
DIST NO	COUNTY	PROJ NO	SEC
6	ST. LOUIS	I-270 C	

FINAL PLANS

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SHR 2.3	SIGN DESCRIPTION, SIZES & NUMBER OF EACH: (270) 24x24	24x12 NORTH	24x12 SOUTH
3	332+00	I-270 Lt	1	1	1	
11	375+00	" Rt	1			1
		totals	2	1	1	
		Sq. Ft. Ea.	4	2	2	
		TOTALS:	8	2	2	SQ. FT.

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE	SIZE TYPE & SQUARE FEET: STB24 ITEM NO. 903-50.01	STR24 ITEM NO. 903-50.02	STR1 ITEM NO. 903-50.03	SHR24 ITEM NO. 903-50.04	SHR123 ITEM NO. 903-50.05	SHR1 ITEM NO. 903-50.06	SHB24 ITEM NO. 903-50.07	36" STOP EACH
E1-5b NO. 13	STD	2	4.5x2				18				
E5-1 EXIT 1		2	6x5				60				
R2-1c SPEED 55		2	4x5						40		
R2-4 MIN. 40		2	4x3						24		
ASMBLY		See @ Left						12			
E1-5q EXIT 12B-A		1	10.5x2	21							
E1-5q EXIT 12A		1	9x2	18							
E1-5q EXIT 12B		2	9x2	36							
E1-5q EXIT 13	STD	4	7.5x2	60							
	SPCL										
2a		1	17.5x7	122.5							
2b		1	16.5x7	115.5							
4b, 15b		2	12x8	192							
5b		1	13x11	143							
5d, 10b		2	11.5x8	184							
12a		1	17.5x7	122.5							
12b		1	15.5x7	108.5							
14a, 16a		2	12x11	264							
14c		1	15x12.5	187.5							
16f		1	17x1.5	25.5							
TOTAL				1600			78	12	64		

FINAL PLANS

SIGNING SHEET 5 OF 13

C

FINAL SURVEY — SURVEYED, PLOTTED, AREAS, AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, AREAS, AREAS CHECKED, NO, BY, DATE

2412

1167 24 TO 1

Job No. G-I-270-422C

SP-31

SPECIAL SIGN DETAIL SHEET

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	IR-270-5(212)	31
DIST. No.	COUNTY	ROUTE	SEC.
6	St. LOUIS	I-270	C

FINAL PLANS

SIGN NO. 2a — STATION 325+90 — QUANTITY REQ'D 1 — OVERALL SIZE: WIDTH 175 FT, HEIGHT 7 FT — BORDER: WIDTH 2 IN, RADII 9 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

Ladue Rd	1/2
US 40-61	1 3/4
Manchester Rd	4

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE:

SPACE 12"																		
LINE 1 — COPY SIZE 13.33" 10"	COPY		L	a	d	u	e		R	d		1/2						
	SPACE	12	12.5	12.38	15.38	12.5	8.5	14	14.13	8.5	61.44	26.67	12					
SPACE 10.01"																		
LINE 2 — COPY SIZE 13.33" 10"	COPY		U	S	4	0	-	G	1		1	3/4						
	SPACE	12	10.65	13.33	20	15.12	11.13	26.66	14.04	4.38	22.98	4.38	10	33.33	12			
SPACE 10"																		
LINE 3 — COPY SIZE 13.33" 10"	COPY		M	a	n	c	h	e	s	t	e	r		R	d		4	
	SPACE	12	16.88	13.51	12.5	12.51	12.5	11.38	11.13	11.38	12.63	6.5	14	14.13	8.5	16.07	12.38	12
SPACE 12"																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 2b — STATION 325+90 — QUANTITY REQ'D 1 — OVERALL SIZE: WIDTH 16.5 FT, HEIGHT 7 FT — BORDER: WIDTH 2 IN, RADII 9 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

Olive Blvd	1/2
Page Ave	2 1/2
Dorsett Rd	3 1/4

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE

SPACE 12"																		
LINE 1 — COPY SIZE 13.33" 10"	COPY		O	l	i	v	e		B	l	v	d		1/2				
	SPACE	12	15.63	7.63	6.25	12.63	8.5	14	15.25	6.25	12.63	8.5	40.06	26.67	12			
SPACE 10.01"																		
LINE 2 — COPY SIZE 13.33" 10"	COPY		P	a	g	e		A	v	e		2		1/2				
	SPACE	12	13.88	12.38	12.5	8.5	14	15.51	12.63	8.5	28.80	10.63	10	26.67	12			
SPACE 10"																		
LINE 3 — COPY SIZE 13.33" 10"	COPY		D	o	r	s	e	t		R	d		3		1/4			
	SPACE	12	16.88	15.38	9.75	13.63	13.63	11.25	8	12	16.88	10.25	12.96	10.63	10	26.67	12	
SPACE 12"																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 46, 156 — STATION 332+80, 391+00 — QUANTITY REQ'D 2 — OVERALL SIZE: WIDTH 12 FT, HEIGHT 8 FT — BORDER: WIDTH 2 IN, RADII 12 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

AB
Ladue Rd
EXIT ONLY

Type 'C' Arrow 16 1/2" x 22 1/2"

* Exit Only sign, Series 'E' black letters on yellow background Included in price for sign its attached to, (Std. Sign # E11-1)

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

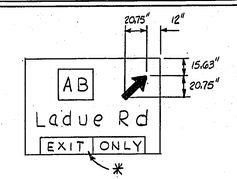
SCALE

SPACE 11"																		
LINE 1 — COPY SIZE 30"	COPY		AB															
	SPACE	51	36	51														
SPACE 11"																		
LINE 2 — COPY SIZE 16" 12"	COPY		L	a	d	u	e		R	d								
	SPACE	16.49	15.13	15.01	16.38	15.13	10.25	12	16.88	10.25	16.48							
SPACE 10"																		
LINE 3 — COPY SIZE 13.33" 10"	COPY		E	X	I	T		↓		O	N	L	Y					
	SPACE	←	54	→	6.75	22.5	6.75	←	54	→								
SPACE 0																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 5d, 10b — STATION 346+00, 365+00 — QUANTITY REQ'D 2 — OVERALL SIZE: WIDTH 11.5 FT, HEIGHT 8 FT — BORDER: WIDTH 2 IN, RADII 12 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24



WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE:

SPACE 11"																		
LINE 1 — COPY SIZE 30"	COPY		AB		↗													
	SPACE	34.63	36	34.62	20.75	12												
SPACE 11"																		
LINE 2 — COPY SIZE 16" 12"	COPY		L	a	d	u	e		R	d								
	SPACE	13.49	15.13	15.01	16.38	15.13	10.25	12	16.88	10.25	13.48							
SPACE 10"																		
LINE 3 — COPY SIZE 18" 12"	COPY		E	X	I	T		O	N	L	Y							
	SPACE	15	←		108						→	15						
SPACE 0																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 12a — STATION 377+50 — QUANTITY REQ'D 1 — OVERALL SIZE: WIDTH 17.5 FT, HEIGHT 7 FT — BORDER: WIDTH 2 IN, RADII 9 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

US 40-61	3/4
Manchester Rd	3
Big Bend Rd	5 1/2

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE:

SPACE 12"																		
LINE 1 — COPY SIZE 13.33" 10"	COPY		U	S	4	0	-	6	1		1	3/4						
	SPACE	12	10.65	13.33	20	15.12	11.13	26.66	14.04	4.38	37.36	33.33	12					
SPACE 10.01"																		
LINE 2 — COPY SIZE 13.33" 10"	COPY		M	a	n	c	h	e	s	t	e	r		R	d		3	
	SPACE	12	16.88	13.51	12.5	12.51	12.5	11.38	11.13	11.38	12.63	6.5	14	14.13	8.5	17.82	10.63	12
SPACE 10"																		
LINE 3 — COPY SIZE 13.33" 10"	COPY		B	i	g		B	e	n	d		R	d		5		1/2	
	SPACE	12	15.25	6.5	8.5	14	14.25	12.63	12.5	8.5	10	14.13	8.5	13.94	10.63	10	26.67	12
SPACE 12"																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 12b — STATION 377+50 — QUANTITY REQ'D 1 — OVERALL SIZE: WIDTH 15.5 FT, HEIGHT 7 FT — BORDER: WIDTH 2 IN, RADII 9 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

Ladue Rd	1/4
Olive Blvd	1 1/4
Page Ave	3 1/2

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE

SPACE																		
LINE 1 — COPY SIZE 13.33" 10"	COPY		L	a	d	u	e		R	d		1/4						
	SPACE	12	12.5	12.38	15.38	12.5	8.5	14	14.13	8.5	37.44	26.67	12					
SPACE																		
LINE 2 — COPY SIZE 13.33" 10"	COPY		O	l	i	v	e		B	l	v	d.		1		1/4		
	SPACE	12	15.63	7.63	6.25	12.63	8.5	14	15.25	6.25	12.63	8.5	13.68	4.38	10	26.67	12	
SPACE																		
LINE 3 — COPY SIZE 13.33" 10"	COPY		P	a	g	e		A	v	e		3		1/2				
	SPACE	12	13.88	12.38	12.5	8.5	14	15.51	12.63	8.5	16.8	10.63	10	26.67	12			
SPACE																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 14c — STATION 388+00 — QUANTITY REQ'D 1 — OVERALL SIZE: WIDTH 15 FT, HEIGHT 12.5 FT — BORDER: WIDTH 2 IN, RADII 12 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

* Center Std. Sign # E11-1 on bottom edge.

Type 'C' Arrow 16" x 22 1/2" Future Legend

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE

SPACE 10"																		
LINE 1 — COPY SIZE 13.33	COPY		W	E	S	T		N	O	R	T	H						
	SPACE	12.02	16.74	12.62	13.37	9.88	14.03	14.04	14.54	13.37	12.62	10.75	12.02					
SPACE 10.67"																		
LINE 2 — COPY SIZE 36"	COPY		40		61													
	SPACE	20.32	36	37	36	26.68												
SPACE 10"																		
LINE 3 — COPY SIZE 16" 12"	COPY		W	e	n	t	z	v	i	l	l	e						
	SPACE	13.55	20.63	15.25	14.75	11.75	13.75	16.38	9.13	9.13	7.88	10.25	13.55					
SPACE 36"																		
LINE 4 — COPY SIZE 18"	COPY		↓		E	X	I	T		O	N	L	Y					
	SPACE	6.75	22.5	6.75	←			108				→	36					
SPACE 0																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGN NO. 14a, 16a — STATION 388+00, 401+40 — QUANTITY REQ'D 2 — OVERALL SIZE: WIDTH 12 FT, HEIGHT 11 FT — BORDER: WIDTH 2 IN, RADII 12 IN

BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2 or L-4, COLOR White, BORDER TYPE L-2 or L-4, ROUTE I-270, MARKER TYPE —, PANEL TYPE —, POST SIZE —
STB24

WIDTH-HORIZONTAL SPACING-INCHES & EIGHTS
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SCALE

SPACE 14																		
LINE 1 — COPY SIZE 48"	COPY		270															
	SPACE	42	60	42														
SPACE 12																		
LINE 2 — COPY SIZE 16/12	COPY		T	u	l	s	a											
	SPACE	39.87	16.63	16.38	7.5	13.63	10.13	39.86										
SPACE 12																		
LINE 3 — COPY SIZE 16/12	COPY		M	e	m	p	h	i	s									
	SPACE	18.18	20.25	15.25	23.01	15.13	16.38	7.5	10.13	18.17								
SPACE 14																		
LINE 4 — COPY SIZE	COPY																	
	SPACE																	

SPACE

SIGNING SHEET 6 OF 13

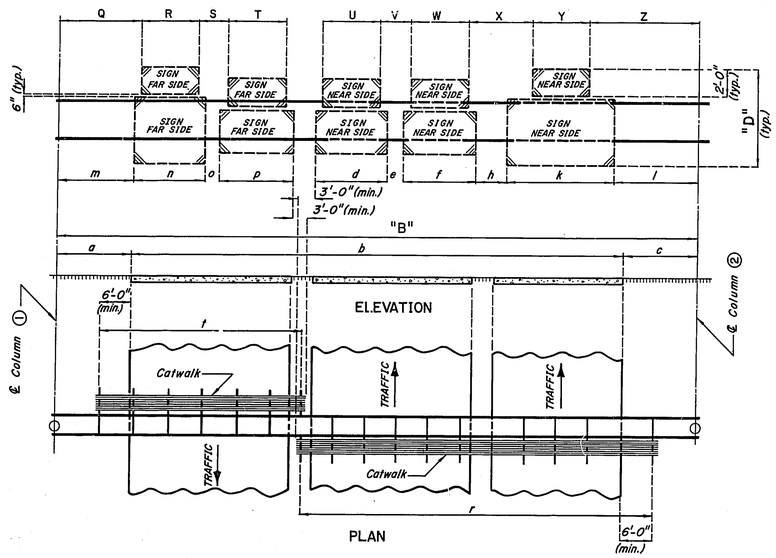
243

1167 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

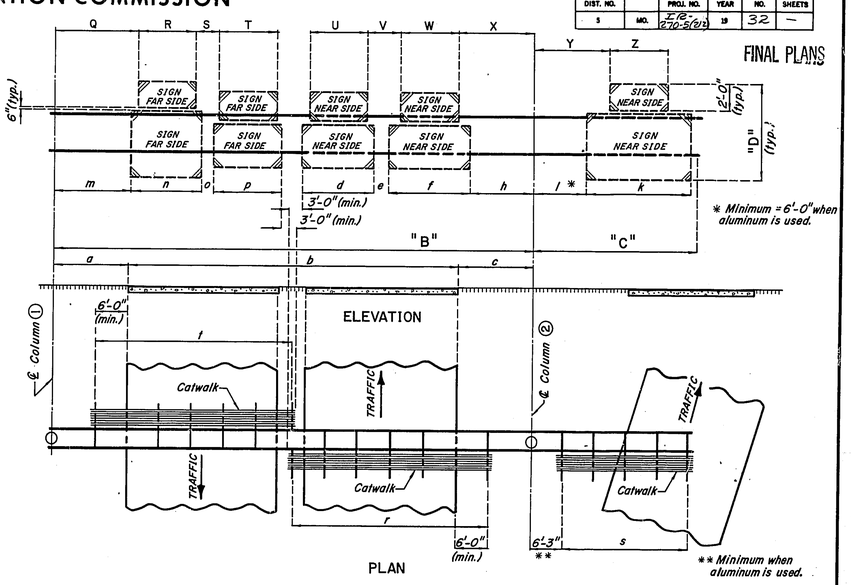
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	FE-270-5(21)	19	32	—

FINAL PLANS



PLAN

DIMENSIONS
TYPE 'B' SIGN BRIDGE



PLAN

DIMENSIONS
TYPE 'BC' SIGN BRIDGE

Note: Above minimums are recommended dimensions.

SIGN BRIDGE DIMENSIONS

Sign No.	Station Number	Truss Description: Type	"B"	"C"	Chord: Alum.	Chord: Steel	Roadway Description: a	b	c	"D"	Sign Spacing: Near Side: d	Ht.	e	f	Ht.	h	k	Ht.	l	Far Side: m	n	Ht.	o	p	Ht.	Catwalk *** Near Side: r	s	F. Side: t	Column ①: H	Type	Column ②: H	Type	Footing & Pedestal C.Y. Class B	Lighting Data: Power: Col. No.	Voltage	Photo Electric Switch	⊛ Mercury Luminaires	⊛ Light Support Extensions	Sign No.
5	346+00	B	95'	—	5/16"x7/16"	6x6x1/2"	6	66	23	13.5	13	11	2.75	11.5	8	—	—	—	26.25	—	—	—	—	—	—	39.5	—	—	20'6"	III	23'3"	IV	15.2+18.3	2	480	—	5	4@3/4"	5
14	388+00	B	90'	—	5/16"x1/4"	6x6x1/2"	6	60/72 Future	24/12 Future	15	12	11	22.5	15	12.5	—	—	—	16.5	—	—	—	—	—	—	63	—	—	21'3"	III	23'6"	IV	15.2+19.8	2	240	—	5	4@3/4"	14
15	391+00	B	105'	—	5/16"x7/16"	6x6x1/2"	6	60/Future 72	39/39 Future	10.5	12	8	24.75 Future 61.5	Sign 22.5	—	—	—	—	39/24.75 Future	—	—	—	—	—	—	33	—	—	20'6"	IV	21'8"	IV	18.1+19.3	1	240	—	3	4@3/4"	15
16	401+40	B	90'	—	5/16"x1/4"	6x6x1/2"	6	60/Future 72	24/12 Future	12.5	12	11	1.5	16	10	0.5	17	10.5	19/15.5 Future	—	—	—	—	—	—	63	—	—	20'6"	III	22'10"	III	15.2+16.5	2	240	—	8	4@3/4"	16

SIGN BRIDGE DIMENSIONS

Sign No.	Station Number	Truss Description: Type	"B"	"C"	Chord: Alum.	Chord: Steel	Roadway Description: a	b	c	"D"	Sign Spacing: Near Side: U	V	W	X	Y	Z		Far Side: Q	R	S	T
5			See Above							—	10.5	6	7.5	—	—	28.25		—	—	—	—
14			See Above								—	—	9	—	—	19.5		—	—	—	—
15			See Above								7.5	—	—	—	—	41.25		—	—	—	—
16			See				Above				—	—	9	8	9	23/20.25 Future		—	—	—	—

⊛ CHART FOR PLACING MERCURY LUMINAIRES

COMINATION OR TOTAL SIGN HEIGHT			℄ LUMINAIRE TO VERTICAL SIGN SUPPORT
13'-0"	&	UNDER	4' - 6 3/4"
13'-1"	TO	14'-0"	6' - 0 1/2"
14'-1"	TO	15'-0"	6' - 9 1/2"
15'-1"	TO	16'-0"	7' - 6 1/2"
16'-1"	&	OVER	8' - 3 1/2"

*** *Catwalk lengths given are the minimum lengths necessary to reach 3'-0" past all signs and 6'-0" past roadway slab. Lengths may need to be increased because end catwalk supports must be placed at a truss vertical or at a column.*

OVERHEAD SIGN TRUSSES
STRUCTURAL STEEL OR ALUMINUM

DATA SHEET
(SEE STANDARD 903.10 OR 903.60)

GENERAL NOTES:

DESIGN SPECIFICATIONS: A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 1975.
BASIC ASSUMPTIONS: WIND VELOCITY 70 MI./HR., WIND PRESSURE ON SIGN AREA = 27 LBS./SQ. FT., ICE LOAD = 3 LBS./SQ. FT.
STRUCTURAL ALUMINUM STRESS 10,000 LBS./SQ. IN.
STRUCTURAL STEEL STRESS 20,000 LBS./SQ. IN. (A.S.T.M.-A36)
REINFORCING STEEL STRESS 20,000 LBS./SQ. IN.
CONCRETE CLASS "B" STRESS 1,200 LBS./SQ.IN.
FOOTING SOIL PRESSURE 2,750 LBS./SQ. FT.
ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.
MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE 17'-6".
REINFORCEMENT: EMBEDMENT IS 2" CLEAR TO MAIN REINFORCEMENT, EXCEPT AS NOTED.
TRUSS SHALL BE ALL-WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.
QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.
STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH A.W.S. SPECIFICATIONS FOR BRIDGES AS AMENDED BY THE MO. HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION. ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH PART B, SEC. 9, A.S.M.E.
ALL ALUMINUM FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE SHOWN.
PAINT: ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED WITH SYSTEM A OR B IN ACCORDANCE WITH STANDARD SPECIFICATIONS 712.12 AND 903.3.4. CONTACT SURFACES OR BOLTED FIELD CONNECTIONS SHALL RECEIVE ONE COAT OF PRIMER AND SURFACES INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS OF PRIMER. COLOR OF THE FINAL FIELD COAT FOR SYSTEM B SHALL BE ALUMINUM. PAYMENT FOR CLEANING AND PAINTING WILL BE INCLUDED IN CONTRACT UNIT PRICE FOR ITEMS PAINTED. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF PAINTING. PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.
PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.
ELECTRICAL: SEE STANDARD PLANS 903.09.

FINAL PLANS
SIGNING SHEET 7 OF 13

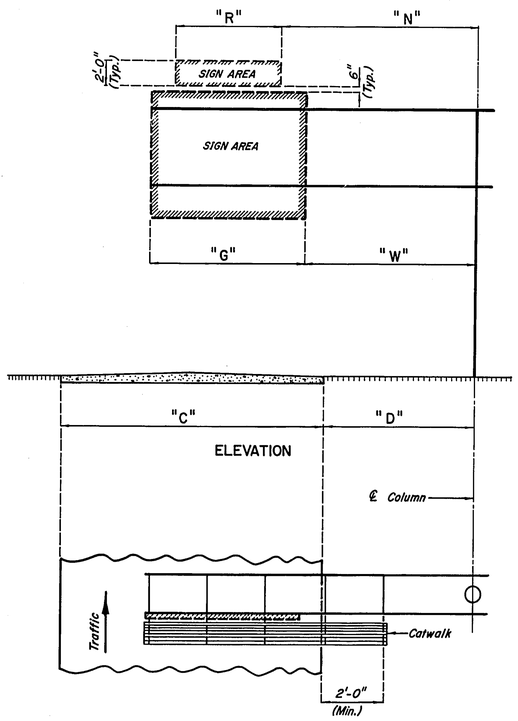
OCTOBER 1982

2447
4006
1167 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

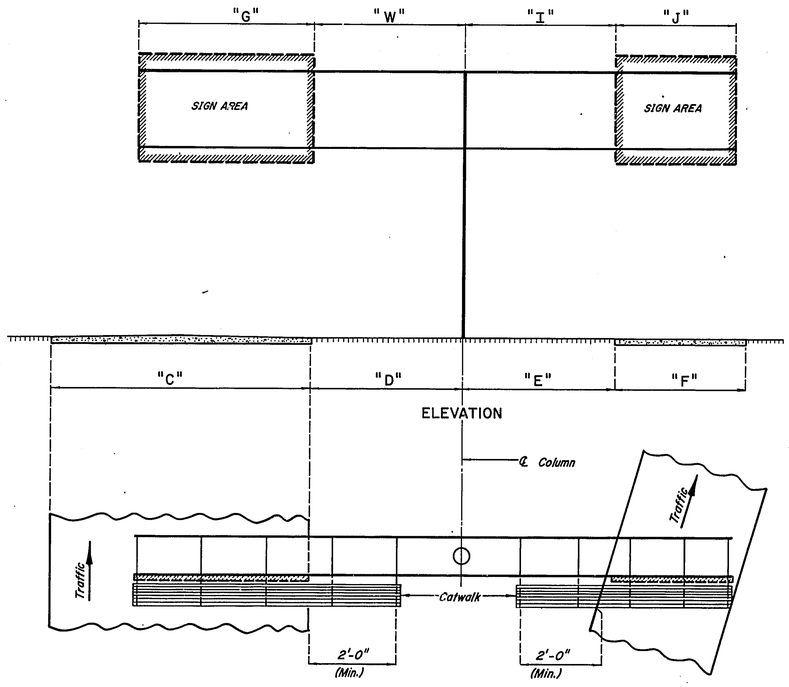
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	Z(2-23)S(2,3)	19	33	—

FINAL PLANS



PLAN

CANTILEVER OVERHEAD SIGN TRUSS



PLAN

BUTTERFLY OVERHEAD SIGN TRUSS

GENERAL NOTES:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 1975.

BASIC ASSUMPTIONS: WIND VELOCITY 70 MI./HR., WIND PRESSURE ON SIGN AREA = 27 LBS./SQ. FT., ICE LOAD = 3 LBS./SQ. FT.

STRUCTURAL ALUMINUM STRESS 10,000 LBS./SQ. IN.

STRUCTURAL STEEL STRESS 20,000 LBS./SQ. IN. (A.S.T.M.-A36)

REINFORCING STEEL STRESS 20,000 LBS./SQ. IN.

CONCRETE CLASS "B" STRESS 1,200 LBS./SQ. IN.

FOOTING SOIL PRESSURE 2,750 LBS./SQ. FT.

ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE 17'-6".

REINFORCEMENT: EMBEDMENT IS 2" CLEAR TO MAIN REINFORCEMENT, EXCEPT AS NOTED.

TRUSS SHALL BE ALL WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH A.W.S. SPECIFICATIONS FOR BRIDGES AS AMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH PART B, SEC. 9, A.S.M.E.

ALL ALUMINUM FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE SHOWN.

PAINT: ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED WITH SYSTEM A OR B IN ACCORDANCE WITH STANDARD SPECIFICATIONS 712.12 AND 903.3.4. CONTACT SURFACES OF BOLTED FIELD CONNECTIONS SHALL RECEIVE ONE COAT OF PRIMER AND SURFACES INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS OF PRIMER. COLOR OF THE FINAL FIELD COAT FOR SYSTEM B SHALL BE ALUMINUM. PAYMENT FOR CLEANING AND PAINTING WILL BE INCLUDED IN CONTRACT UNIT PRICE FOR ITEMS PAINTED. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF PAINTING. PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

ELECTRICAL: SEE STANDARD PLANS 903.09.

⊛ CHART FOR PLACING MERCURY LUMINAIRES.

COMBINATION OR TOTAL SIGN HEIGHT	℄ LUMINAIRE TO VERTICAL SIGN SUPPORT
13'-0" & UNDER	4'-6¾"
13'-1" TO 14'-0"	6'-0½"
14'-1" TO 15'-0"	6'-9½"
15'-1" TO 16'-0"	7'-6½"
16'-1" & OVER	8'-3½"

OVERHEAD SIGN DIMENSIONS

Sign No.	Station Number	Type Sign: Cant.	Type Sign: Butterfly	Col. H	Col. Type	Roadway Description: "C"	"D"	"E"	"F"	Near Side: "G"	Near Side: Ht.	Sign Spacing: "W"	"I"	"J"	Far Side: Ht.	"R"	"N"	Catwalk*: N. Side	Catwalk*: F. Side	Footing & Pedestal: C.Y. Class B	Lighting Data: Photo Elec. Switch	Lighting Data: Mercury Luminaires ⊛	Lighting Data: Power Voltage	Lighting Data: Light Support Extensions ⊛	Sign No.
2	325+90	—	10+10	17'	III BC	60	6	6	60	17.5	7	0	0	16.5	7	—	—	20	20	14.4	—	6	240	4'6¾"	2
4	332+80	30'	—	21'8"	I BC	60	18	—	—	12	8	18	—	—	—	7.5	20.25	18	—	16.9	—	2	240	4'6¾"	4
10	365+00	25'	—	22'	V BC	71	10.5	—	—	11.5	8	13.25	—	—	—	7.5	15.25	30	—	17.3	—	2	480	4'6¾"	10
12	377+50	—	10+10	17'	III BC	48	6	6	48	17.5	7	0	0	15.5	7	—	—	20	20	14.4	—	6	240	4'6¾"	12

Note: On Butterfly Trusses 2 & 12, Center both Near "G" and Far "J" Signs on Column.

* Catwalk lengths given are the minimum lengths necessary to reach 3'-0" past all signs and 6'-0" past roadway slab. Lengths may need to be increased because end catwalk supports must be placed at a truss vertical or at a column.

BUTTERFLY AND CANTILEVER OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATA SHEET
(SEE STANDARD 903.12)

FINAL PLANS

SIGNING SHEET 8 OF 13

OCTOBER 1982

24

4097

1167 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

STATE MO.	JOB NO. 6-I-270-422C	SHEET NO. 100
DIST. NO. 6	PROJECT NO. IR-270-5(212)	ROUTE I-270
	COUNTY ST. LOUIS	

SP-2
JULY, 1984

✓	NO.	DESCRIPTION
✓	203.00E	EXCAVATION & EMBANKMENT
✓	203.02C	UNDERGRADING
	203.10A	TABULATED EARTHWORK & SECTION DATA
	203.20A	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21A	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35A	MAILBOX TURNOUTS
	203.40D	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (NO SAFETY ZONE)
	203.41D	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (SAFETY ZONE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
✓	502.00J	CONCRETE PAVEMENT APPURTENANCES *
✓	502.10C	DOWEL SUPPORTING UNITS
✓	503.00H	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	604.05A	PIPE CULVERT HEADWALLS - TYPE S
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25B	DROP INLET - TYPE F
	604.26C	DROP INLET - TYPE G
	604.27C	DROP INLET - TYPE S (3 SHEETS)
	604.28D	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
✓	604.40E	PIPE COLLARS
	605.10A	CLASS A UNDERDRAINS
✓	606.00S	GUARD RAIL (2 SHEETS) *
	606.20G	BRIDGE ANCHOR SECTION - BRUSH CURB (ALSO INCLUDE 606.00)
	606.21E	BRIDGE ANCHOR SECTION - CURB TYPE (ALSO INCLUDE 606.00) *
✓	606.22D	BRIDGE ANCHOR SECTION - SAFETY BARRIER CURB (INCLUDE 606.00)
✓	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10P	CHAIN LINK FENCE *
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20E	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
	608.00C	PAVED APPROACHES *
	608.10F	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20B	CONCRETE STEPS
✓	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
✓	609.15A	PAVED DITCHES
✓	609.40D	DRAIN BASIN, SHLDR. PAVING & FILL SLOPE AT BR. ENDS
	609.60A	DITCH LINER
✓	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
✓	611.60K	CONCRETE SLOPE PROTECTION
✓	612.10K	BARRICADES AND FLASHER SIGNS
✓	614.10K	CURB INLETS, GRATES & BEARING PLATES *
✓	614.30C	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
✓	616.10B	TRAFFIC CONTROL DEVICES (2 SHEETS) (ALSO INCLUDE 903.01)
✓	617.00S	CONCRETE MEDIAN BARRIER (3 SHEETS) *
	702.01E	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.15D	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS) (INCL. 706.35)
	703.16C	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS) (FLARED WINGS) (INCL. 706.35)
	703.20D	CONCRETE BOX CULVERTS, HS20 LOADING (3 SHEETS) (INCL. 706.35)
	703.21C	CONCRETE BOX CULVERTS, HS20 LOADING (3 SHEETS) (FLARED WINGS) (INCL. 706.35)
	703.24D	CONCRETE BOX CULVERTS, SKEW DATA (703.15, 703.20, 703.30) (INCL. 706.35)
	703.25C	CONCRETE BOX CULVERTS, SKEW DATA (703.16 & 703.21)(3 SHEETS) (FLARED WINGS) (INCL. 706.35)
	703.30C	CONCRETE BOX CULVERTS, 4' SPANS & LESS - ALL LOADING (INCL. 706.35)
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL. 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL. 706.35)
	703.50E	CONCRETE DOUBLE BOX STRUCTURE - SQUARE (INCL. 706.35) *
	703.51D	CONCRETE DOUBLE BOX STRUCTURE - SKEWED (INCL. 706.35) *
	703.52B	CONCRETE DOUBLE BOX STRUCTURE - CUT SECTIONS (INCL. 706.35)
	703.53C	DOUBLE BOX STRUCTURE REINFORCEMENT - H15 LOADING (6 SHEETS)
	703.54C	DOUBLE BOX STRUCTURE REINFORCEMENT - H20 OR HS20 LOADING (6 SHEETS)
	703.55B	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL. 706.35) *
	703.56B	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL. 706.35) *
	703.60C	CONCRETE BOX STRUCTURE - PIPE INLET
	706.30D	REINFORCING BAR SUPPORTS
✓	706.35D	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40B	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	712.41B	STEEL DAMS FOR BRIDGES (4" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
✓	726.30C	CULVERT INSTALLATION METHODS *
✓	731.00N	PRECAST MANHOLES (ALSO INCLUDE 614.30)
✓	731.10F	PRECAST DROP INLETS (4 SHEETS) (ALSO INCLUDE 614.30 & 614.10)
✓	732.00K	FLARED END SECTION (2 SHEETS) *
	806.00C	EROSION CONTROL NETTING (INSTALLATION) TYPE I
	806.02	STAPLE PLACEMENT FOR TYPE III NETTING

✓	NO.	DESCRIPTION
		HIGHWAY LIGHTING
	901.00L	POLES & APPURTENANCES - 30' (3 SHEETS) *
✓	901.01Q	POLES & APPURTENANCES - 45' (3 SHEETS) *
✓	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (NOTE BELOW)
	901.12A	POLE MOUNT. CONT. STA.-SECONDARY SERV.-480 V MULTI. CIR. (NOT METERED)
	901.15C	POLE MOUNT. CONT. STA.-SEC. SERV.-120, 240, & 480 V MULTI. CIR.
	901.16B	POLE MOUNT. CONT. STA.-SEC. SERV.-480 V MULTI. CIR. (METERED)
	901.18B	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR.
	901.19B	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (NOT METERED)
	901.20B	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR. (SIG. METERED)
	901.22C	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 & 480 V MULTI. CIR. (BOTH METERED)
	901.23C	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (METERED)
	901.24B	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (LT'S & SIGS-BOTH METERED)
	901.25B	BASE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR.
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
	902.00D	SIGNAL HEADS, LENSES AND MOUNTING *
	902.10E	PULL BOXES, CONTROLLERS, COND. LOCATION *
	902.15A	POWER SUPPLY ASSEMBLY *
	902.21B	TELEPHONE INTERCONNECT *
	902.30E	CONCRETE BASES *
	902.40E	TUBULAR STEEL POST *
	902.50E	DETECTORS *
	902.60E	SPAN WIRE DETAILS - STEEL POST *
	902.70A	SPAN WIRE DETAILS - WOOD POLE *
		HIGHWAY SIGNING
✓	903.01C	ALPHABETS (2 SHEETS)
✓	903.02T	HIGHWAY SIGNING (7 SHEETS) *
✓	903.03AF	SIGN MOUNTING DETAILS (6 SHEETS) *
	903.04D	WEIGH STATION SIGNING *
	903.05C	TUBULAR SPAN SUPPORT - ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT - TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
✓	903.09C	LIGHTING SUPPORT BRACKET
✓	903.10S	SIGN TRUSSES - OVERHEAD ALUMINUM (8 SHEETS) (INCL. 903.03)
✓	903.12L	SIGN TRUSSES - BUTTERFLY & CANTILEVER - STEEL (7 SHEETS) (INCL. 903.03)
✓	903.60Q	SIGN TRUSSES - OVERHEAD STEEL (7 SHEETS) (INCL. 903.03)

NOTES: Plans for this project were developed using Drawings from this index.

* Revised since April, 1983.

2416

4224

1167 24 TO 1

SP-1

DESIGN DESIGNATION

A.D.T. - 1986 = 104,500-117,700 (I-270)
75,500- 86,000 (40-61)
A.D.T. - 2006 = 133,600- 141,600 (I-270)
102,200- 119,400 (40-61)

A.D.T. - 2006 =
D.H.V. = 9 % OF A.D.T.

T = 6 % OF A.D.T.

V = 60 M.P.H.

FULLY LIMITED ACCESS HIGHWAY

THIS SHALL BE A FULLY LIMITED ACCESS HIGHWAY BETWEEN STA 401+23.10 AND STA 431+00 NO ABUTTING OWNER SHALL HAVE THE RIGHT OF DIRECT ACCESS TO SAID HIGHWAY OR ITS RIGHT-OF-WAY EXCEPT THAT ACCESS WILL BE PERMITTED TO ANY ADJACENT OUTER ROADWAY OR SERVICE ROAD TO WHICH ACCESS IS NOT SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING "NO RIGHT OF ACCESS" AS SHOWN ON THE PLANS. NO ACCESS WILL BE PERMITTED FROM OUTER ROADWAYS AND SERVICE ROADS TO THROUGHWAYS EXCEPT ALONG ROUTES CONSTRUCTED FOR THAT PURPOSE. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.

- BEGINNING AND ENDING OF LIMITED ACCESS
- LIMITED ACCESS
- NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

NOTE: F.L. R/W Previously Acquired on CJ 6478

CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER

GUARD RAIL NOTATIONS:
B.A.S. - Bridge Anchor Section (Safety Bar. Curb)
Type A G.R. - Type A Guard Rail
ET 2000 - ET 2000 Safety Barrier Terminal Sect.
B.E.A. - Breakaway End Anchor

TITLE SHEET LEGEND
IDENTIFICATION SIGNS * (4 REQUIRED) □

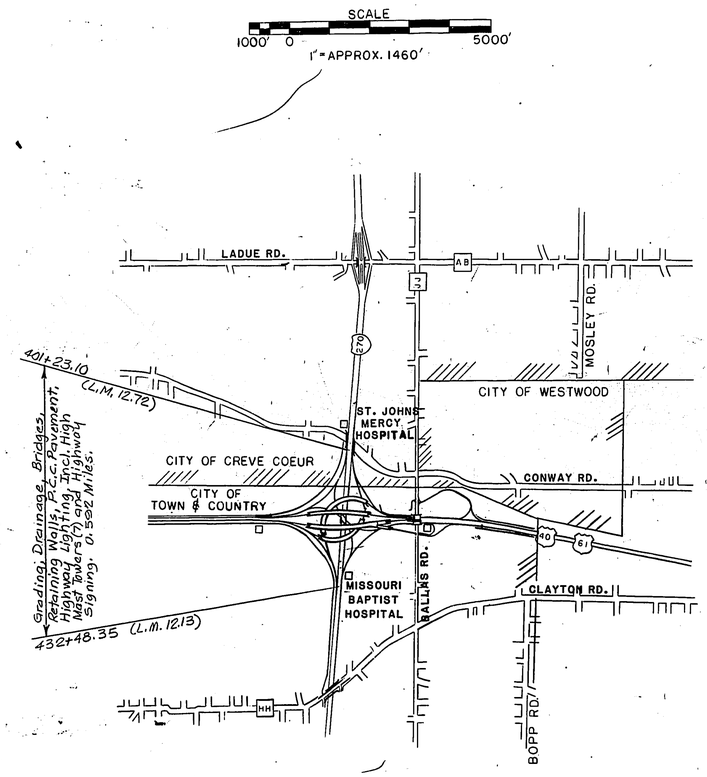
NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

REV SEP 83

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT

NOTE:
THIS PROJECT SHALL BE CONSTRUCTED AS JOB NO. 6I 6471 270 AND ALL REFERENCE TO ANY OTHER CONSTRUCTION JOB NO. FOUND ELSEWHERE IN THESE PLANS SHALL BE CONSTRUCTED **VOID.**

SCALE
1000' 0 5000'
1" = APPROX. 1460'



NOTE: Construction along Rte. 40, east and west of Rte. I-270 is included in and is incidental to this project.

Bridges on this project.		
No.	Loc.	Type
A-4677	Lt. WB 40	Ret. Wall
A-4580R	" " "	" "
A-4591	Rt. EB 40	" "
A-4678	Lt. S.F. Dr.	" " (Part)
A-4654	Rt. Rp. B5	" "
A-4788	Rt. Rp. 5	" "
A-4625	Lt. Rp. 2	" " (Part)
A-4652	EB 40	Pt Gdr. (Part)
A-4653	Rp. 4	" " (Part)
A-5197	RP-9	RET. WALL

RECEIVED
OCT 04 1991
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

COUNTY ST. LOUIS
ROUTE I-270
PROJECT IR-IRE-270-5(254)
JOB NO. J6I0647I

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (1 SHEET)	2
SUMMARY (3 SHEETS)	2-A
SUMMARY (3 SHEETS)	2-B
PLAN-PROFILE	3-66
REFERENCE POINTS	–
SPECIAL SHEETS (16 SHEETS)	67-82
LIGHTING (3 SHEETS)	83-85
SIGNALS	–
SIGNING (30 SHEETS)	86-115
CULVERT SECTIONS (7 SHEETS)	116-122
BRIDGE DRAWINGS	123-316
STANDARD PLANS INDEX	317
CROSS SECTIONS	1-98
COMPUTER DATA	

LENGTH OF PROJECT

END OF PROJECT	STA.	432+48.35
BEGINNING OF PROJECT	STA.	401+23.10
APPARENT LENGTH		3125.25 FEET
EQUATIONS AND EXCEPTIONS		
TOTAL CORRECTIONS		0 FEET
NET LENGTH OF PROJECT		3125.25 FEET
STATE LENGTH		0.592 MILES
FEDERAL LENGTH		0.592 MILES

STATE OF MISSOURI
WAYNE MURI
NUMBER E-10472
REGISTERED PROFESSIONAL ENGINEER

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

Wayne Muri 8-29-91
CHIEF ENGINEER — DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

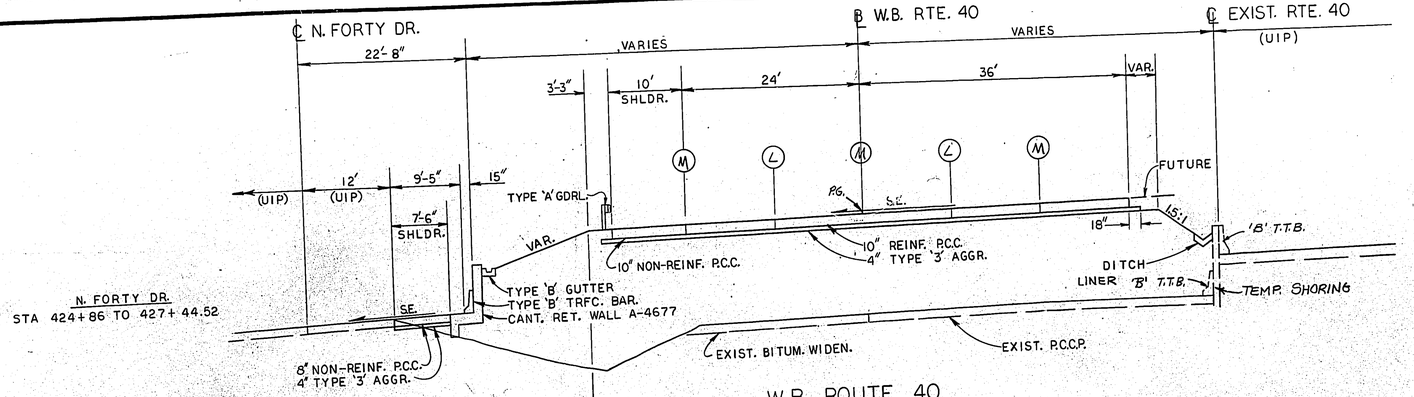
APPROVED

DIVISION ADMINISTRATOR — DATE

1544 24 TO 1

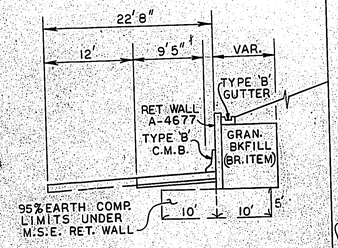
STATE MO.	JOB NO. J6I0647I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(254)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS



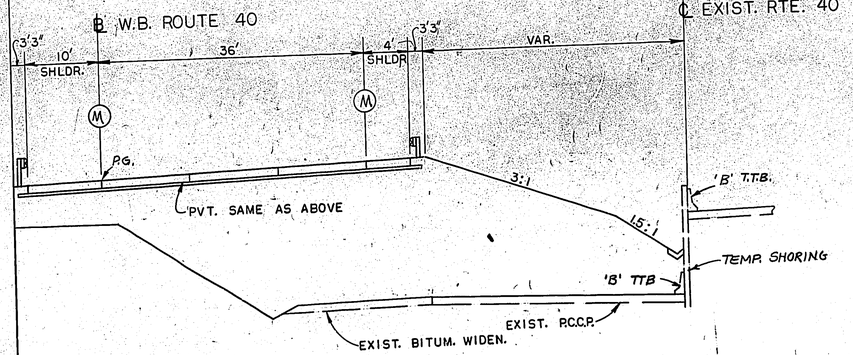
N. FORTY DR.
STA 424+86 TO 427+44.52

W.B. ROUTE 40
STA 663+50 TO 669+55



N. FORTY DR.
STA 417+30 TO 424+86

SEE RAMP 3 TYPICAL SH. OF



STA. 668+55 to STA. 676+23

TYPICAL SECTIONS
WESTBOUND LNS.
N. FORTY DR.
STAGE I

SH. 1 OF 11

FINAL SURVEY | DATE | BY | SURVEYED | PLOTTED | NOTE BOOK | TEMPLATE | NO. | AREAS CHECKED | AREAS

ORIGINAL SURVEY | DATE | BY | SURVEYED | PLOTTED | NOTE BOOK | TEMPLATE | NO. | AREAS CHECKED

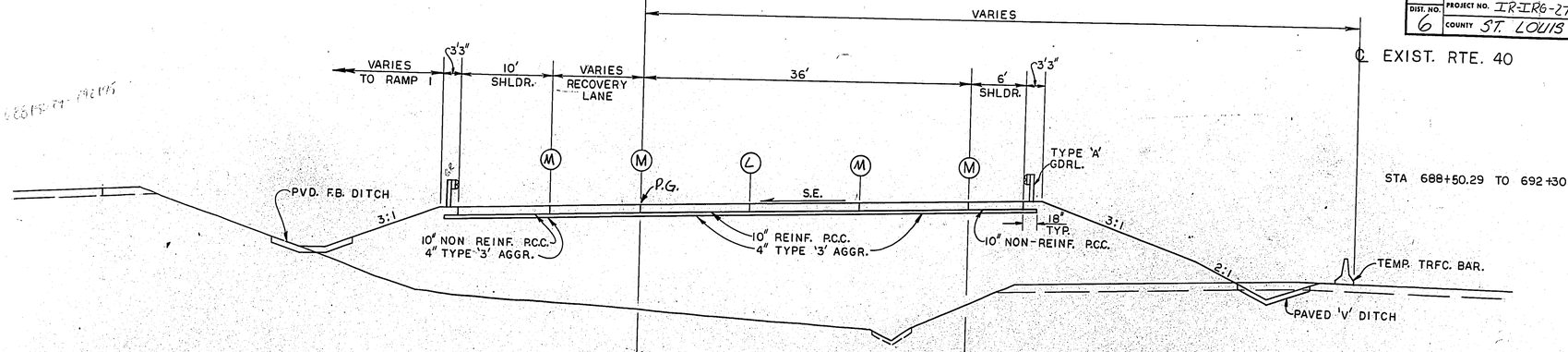
QUALITY REPRO

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

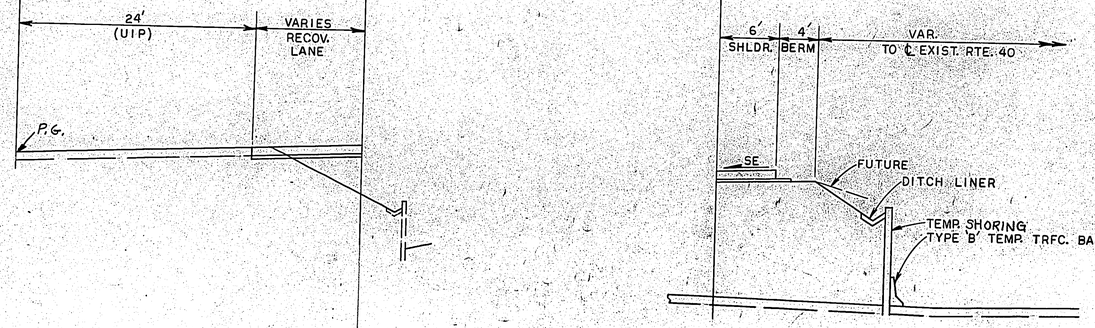
FINAL PLANS

℄ W.B. RTE. 40



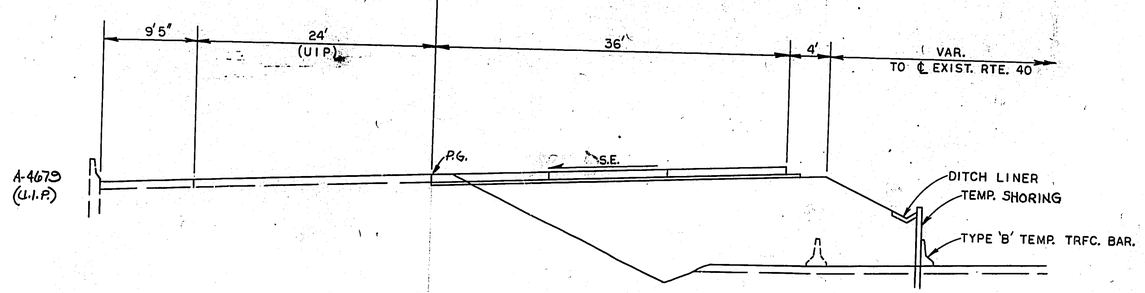
STA 688+50.29 TO 692+30

℄ RAMP I



STA 692+30 TO 693+50

℄ W.B. RTE. 40



STA. 693+50 TO 697+70

TYPICAL SECTIONS
WESTBOUND LNS.
688+50.29 TO 698+86.67
STAGE I

FINAL PLANS

SH. 2 OF 11

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

QUALITY CONTROL

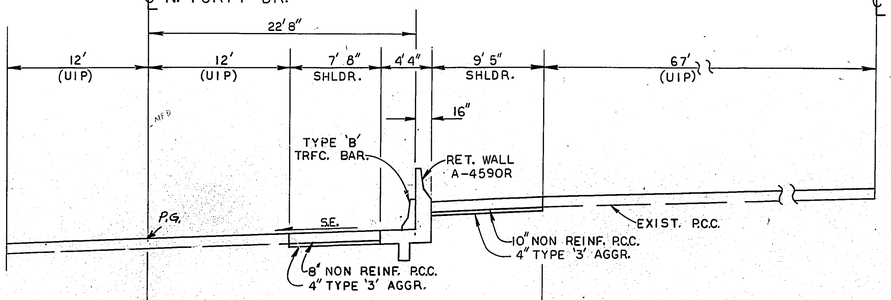
T-542

24 TO 1

STATE MO.	JOB NO. J6I0647I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IR-IR6-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

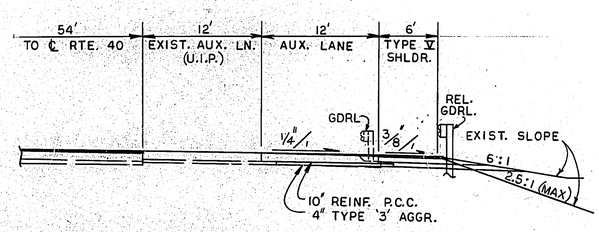
FINAL PLANS

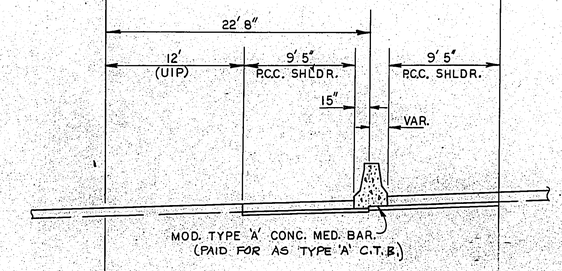
℄ N. FORTY DR.



℄ RTE. 40

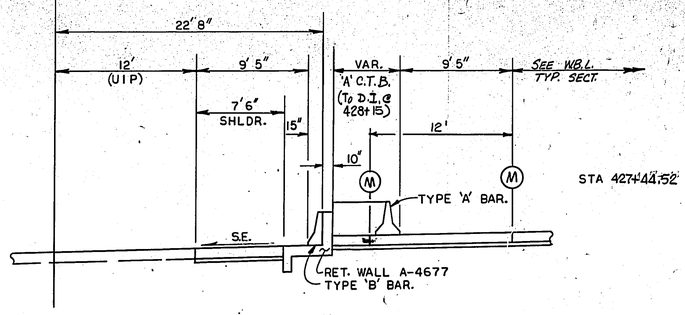
STA 659+60 TO 660+35.54 ℄ RTE. 40 / 430+57.63 ℄ N.F.D. EQ.





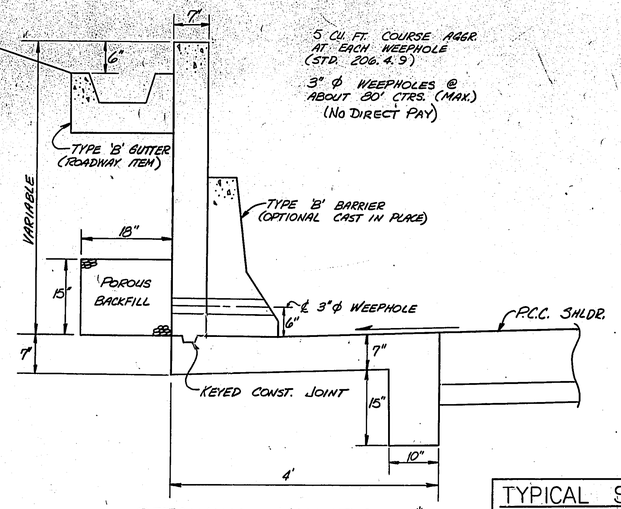
STA 429+40 TO 430+57.63

AUXILIARY LANE
STA 376+00 TO 397+25.12 I-270



STA 427+44.52

N. FORTY DR.



RETAINING WALL TYPICAL *

A-4656, A-4678, A-4677, A-4590R, A-4591R
A-4678 (EXCEPT THROUGH LIMITS OF MECH. STAB. EARTH WALLS)

* ALL STAGES

TYPICAL SECTIONS
N. FORTY DR.
I-270 AUX. LANE
RETAINING WALL
STAGE 1 FINAL PLANS

SH. 3 OF 11

FINAL SURVEY / ORIGINAL SURVEY — DATE / BY / SURVEYED / PLOTTED / TEMPLATE / AREAS CHECKED / NOTE BOOK / NO.

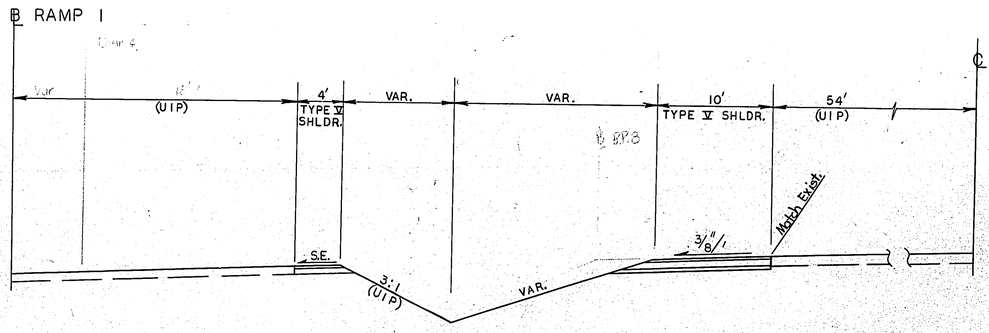
QUALITY REPRO

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I	SHEET NO.
		2
DIST. NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	270

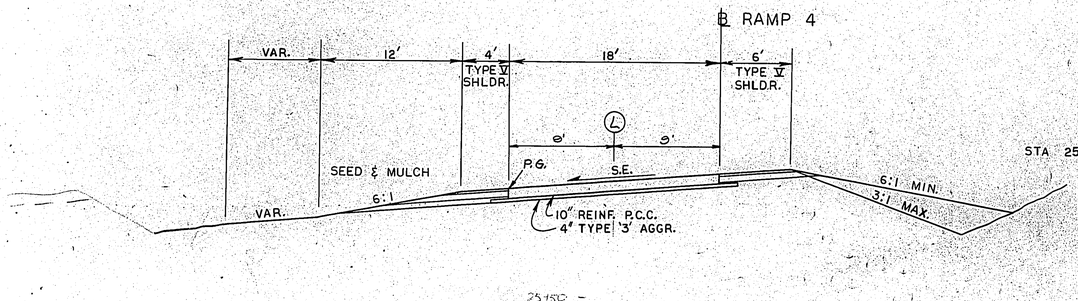
FINAL PLANS

FINAL PLANS



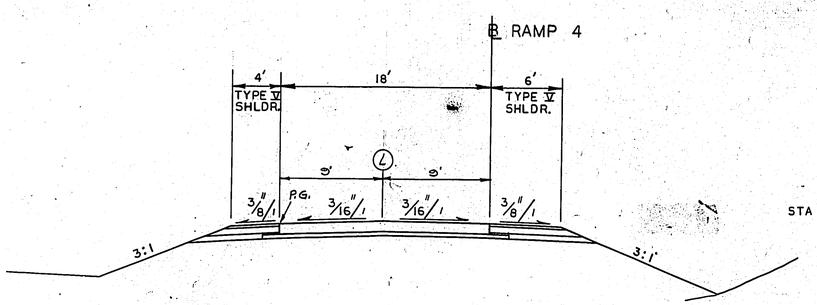
STA 402+76.28 TO 407+30

I-270
STAGE I



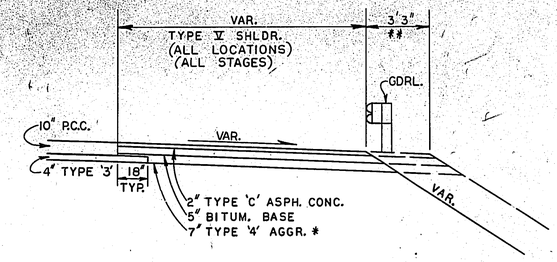
STA 25+50 TO 29+20.24

S.E. SECTION



STA 29+20.24 TO 32+74.31

RAMP 4
STAGE I



TYPE V SHOULDER

*OMIT ON HIGH SIDE (S.E.)
**TYPE V SHLDR. @ LIMITS OF GDRL.

TYPICAL SECTIONS
RAMP 4
I-270
STAGE I FINAL PLANS

FINAL PLANS

SH 4 OF 11

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

QUALITY REPRO

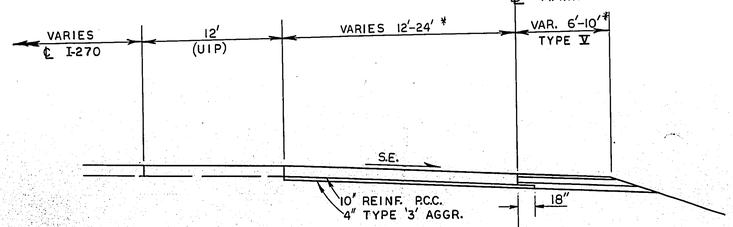
T544 24 TO 1

STATE MO.	JOB NO. J6I0647I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IR-IRG-270-5 (259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

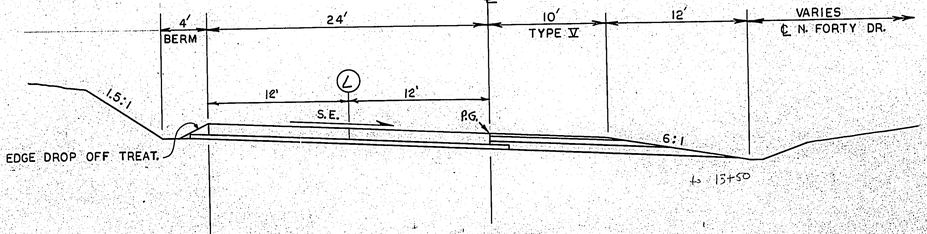
FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

℄ RAMP 3



STA 400+18.21 TO 401+23.10 I-270
STA 0+00 TO 2+27.76 RAMP 3

℄ RAMP 3

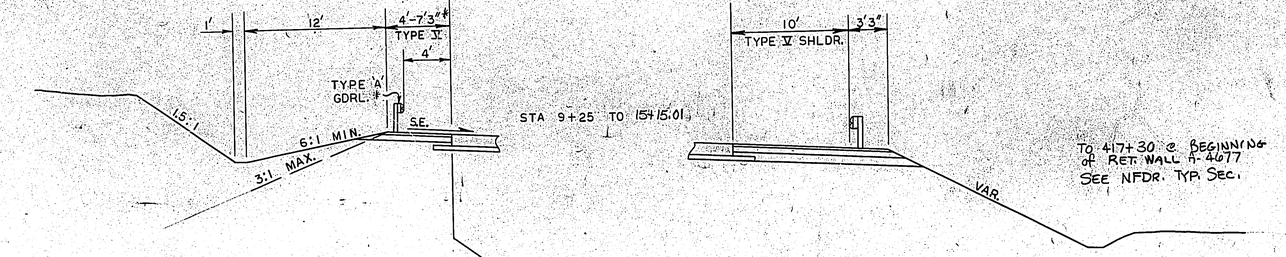


STA 2+27.76 TO 9+

* SEE PLAN SHEETS FOR LIMITS

to 13+50

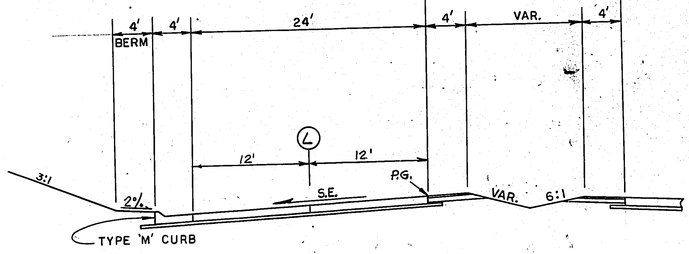
RAMP 3
STA. 2+27.76 TO 9+25



STA 9+25 TO 15+15.01

TO 417+30 @ BEGINNING of RET. WALL A-4077
SEE NFDR. TYP. SEC.

℄ RAMP 8



RAMP 8
STA 24+26.96 TO P.T. @ RP. 3

TYPICAL SECTIONS
RAMP 3
RAMP 8
STAGE I

FINAL PLANS

SH. 5 OF 11

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

QUALITY REPRO

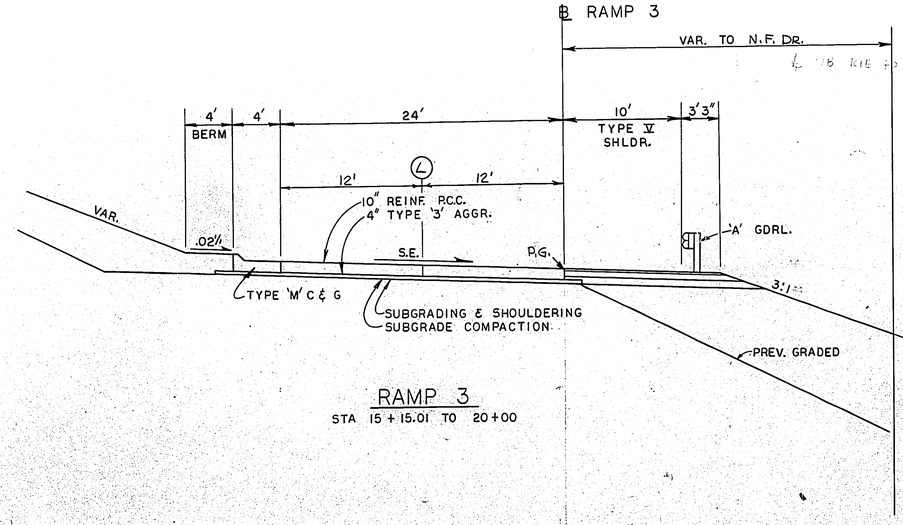
1544 24 TO 1

STATE	JOB NO. J6I0647I	SHEET NO.
MO.	PROJECT NO. IR-IRG-270-5(250)	2
DIST. NO.	COUNTY ST. LOUIS	ROUTE
6		270

FINAL PLANS

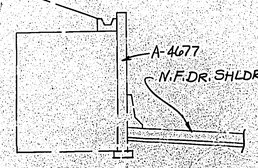
FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED

℄ RAMP 3

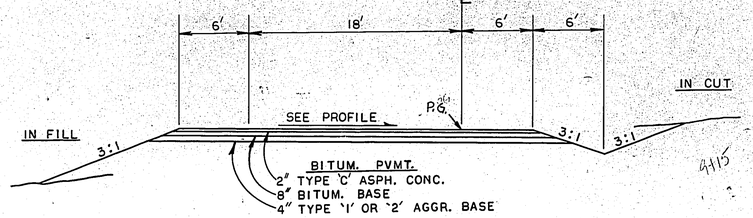


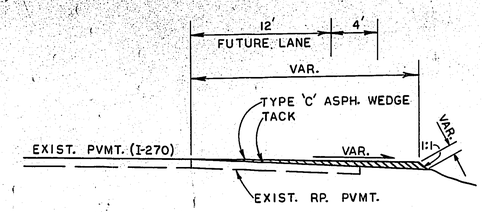
SEE W.B. ROUTE 40 TYPICAL SEC.
SH. 1 OF 1

RAMP 3
STA 15+15.01 TO 20+00



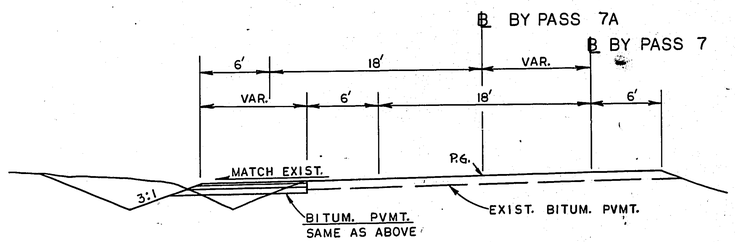
℄ BY PASS 7A





ASPH. WEDGE

℄ BY PASS 7A
℄ BY PASS 7



BY PASS 7A

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED

TYPICAL SECTIONS
RAMP 3
BYPASS 7A
ASPHALT WEDGE
STAGE I
FINAL PLANS
SH. 6 OF 11

QUALITY REPRO

1544

24 TO 1

STATE	JOB NO. J6I0647I	SHEET NO.
MO.		2
DIST. NO.	PROJECT NO. IRIRG-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	270

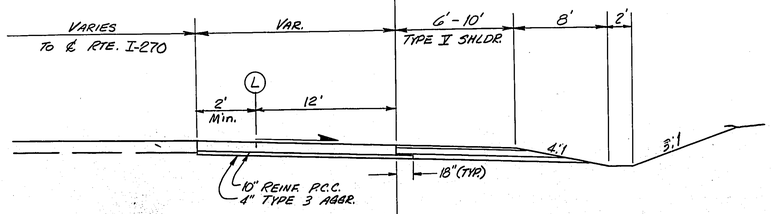
FINAL PLANS

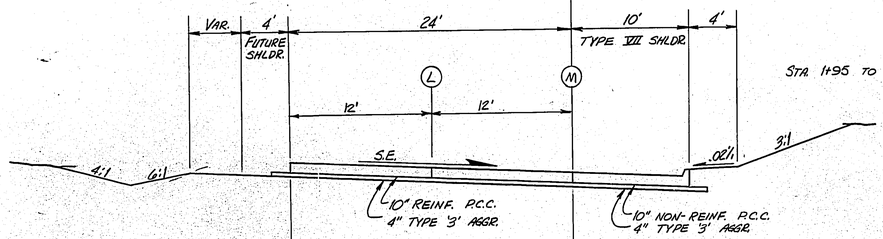
FINAL SURVEY — DATE / BY / SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / AREAS CHECKED / NO

ORIGINAL SURVEY — DATE / BY / SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / AREAS CHECKED / NO

QUALITY REPRO

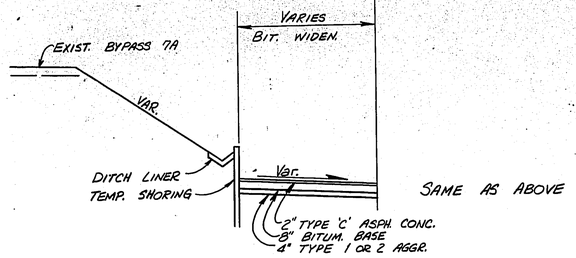
℄ RAMP 5



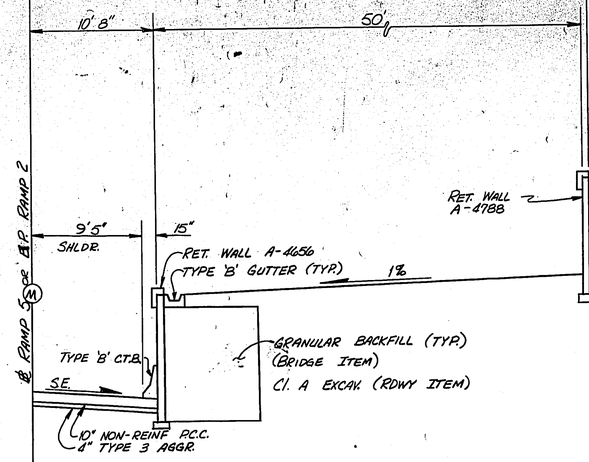


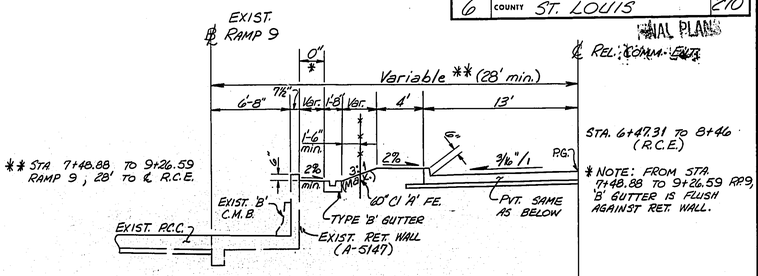
STA. 11+95 TO 13+00 RP 5

RAMP 5



SAME AS ABOVE





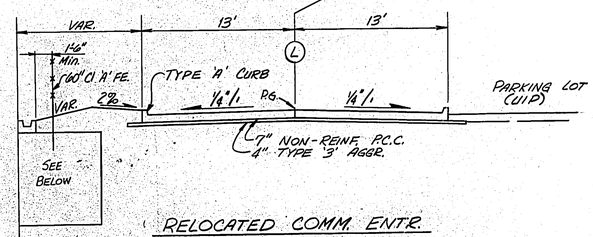
** STA 7+48.88 TO 9+26.59 RAMP 9, 28' TO ℄ R.C.E.

STA. 6+47.31 TO 8+46 (R.C.E.)

* NOTE: FROM STA 7+48.88 TO 9+26.59 RP9, 'B' GUTTER IS FLUSH AGAINST RET. WALL.

RELOCATED COMM. ENTR.

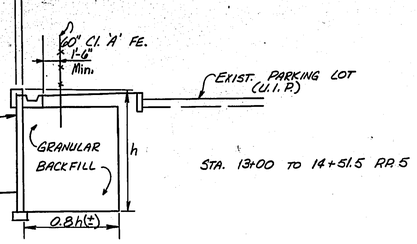
RT. OF EXIST. RAMP 9



RELOCATED COMM. ENTR.

RT. OF RAMPS 5 & 2

STA. 14+51.5 RP 5 TO 28+48.75 RP 2



STA. 13+00 TO 14+51.5 RP 5

TYPICAL SECTIONS

RAMP 5

R.C.E. FINAL PLANS

STAGE II

SH. 7 OF 11

T544 24 TO 1

STATE MO.	JOB NO. J6I0647I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IRIRS-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

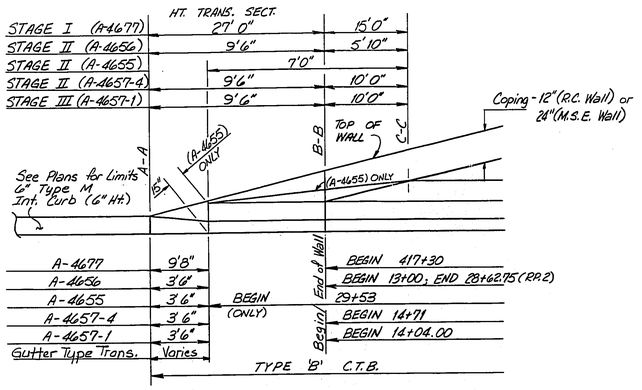
FINAL PLANS

FINAL SURVEY	SURVEYED	BY
	PLOTTED	
	NOTE BOOK	
	AREAS	
NO.	AREAS CHECKED	DATE

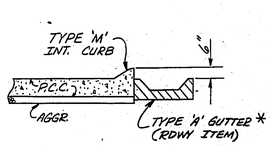
ORIGINAL SURVEY	SURVEYED	BY
	PLOTTED	
	NOTE BOOK	
NO.	AREAS	
	AREAS CHECKED	DATE

HT. TRANS. SECT.

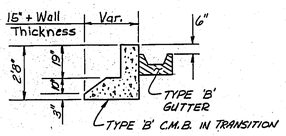
STAGE I (A-4677)	27'0"	15'0"
STAGE II (A-4656)	9'6"	5'10"
STAGE II (A-4655)	7'0"	
STAGE II (A-4657-4)	9'6"	10'0"
STAGE III (A-4657-1)	9'6"	10'0"



TYPE 'B' C.T.B. HEIGHT TRANSITION SECTIONS AT BEGINNING OR END OF RETAINING WALLS (Not to Scale)

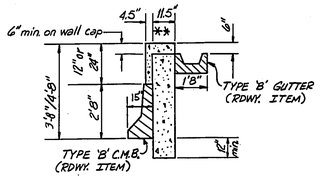


SECTION A-A



SECTION B-B

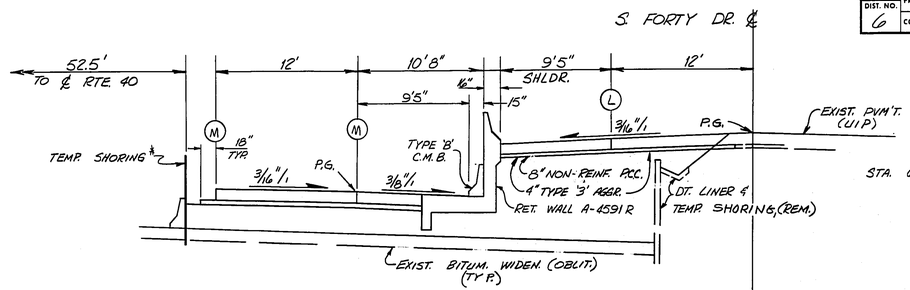
* Trans. offset to normal ditch & ditch treatment in 50'±.



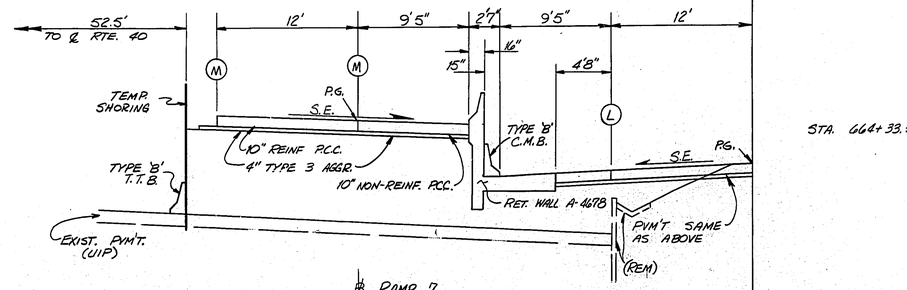
SECTION C-C

** Varies with wall type.

S. FORTY DR. ℄

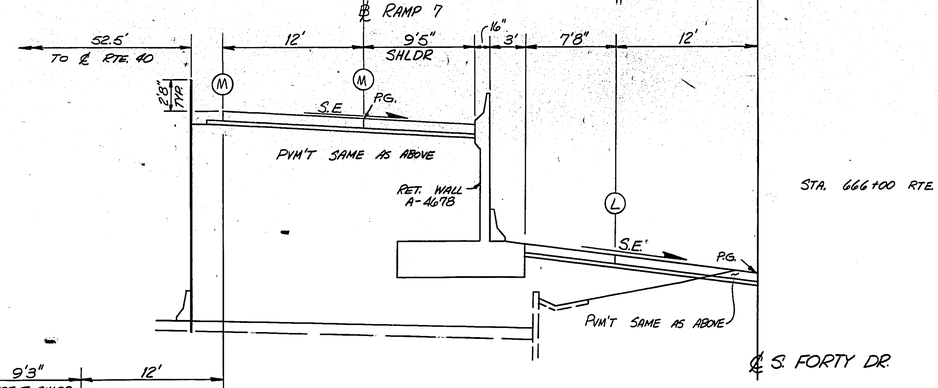


STA. 658+60 TO 664+25.24

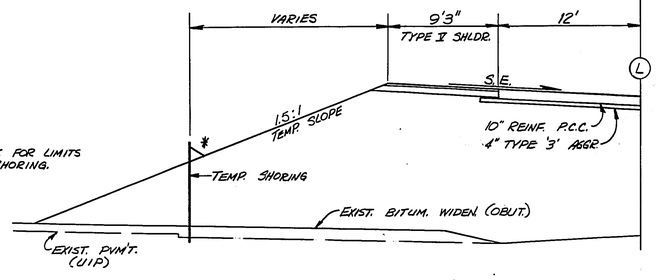


STA. 664+33.58 TO 666+00

℄ RAMP 7



STA. 666+00 RTE. 40 TO 415+20 S.F.D.



STA. 3+19.85 TO 5+75.09 RP. 7

TYPICAL SECTIONS

S. FORTY DR.
RAMP 7

FINAL PLANS

STAGE - II

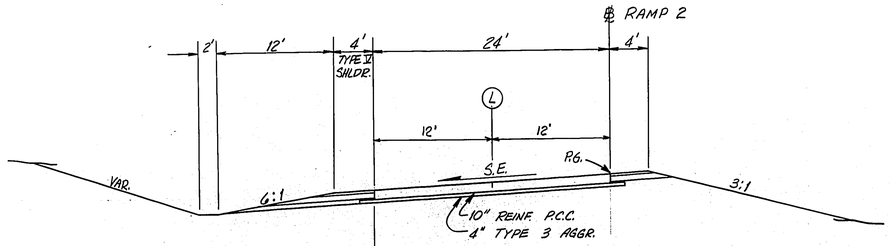
SH. 8 OF 11

QUALITY REPRO

1544 24 TO 1

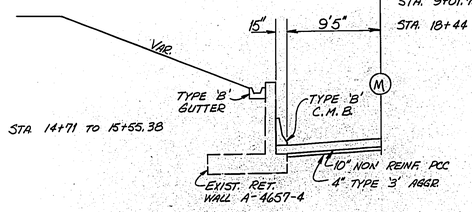
STATE MO.	JOB NO. J6I0649I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

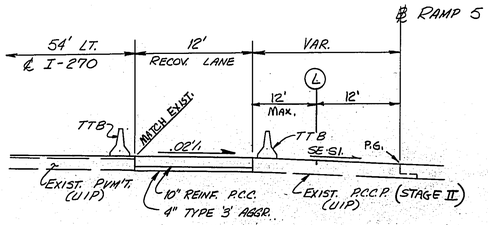


RAMP 2

STA. 9+01.78 TO 15+55.38 - STAGE II
STA. 18+44 TO 24+55.71 - STAGE III

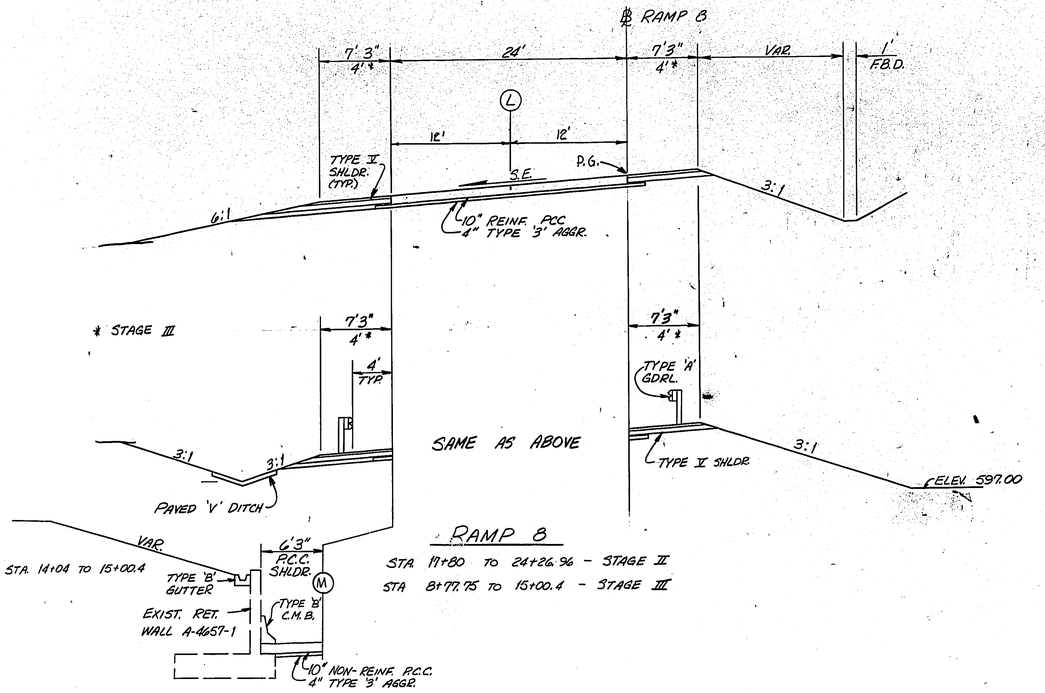


STA. 14+71 TO 15+55.38



RECOV. LANE DETAIL

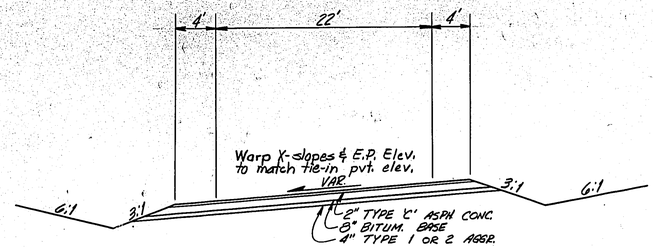
STA. 430+15.20 TO 432+64 I-270
STAGE III



STA. 14+04 TO 15+00.4

RAMP 8

STA. 11+80 TO 24+26.96 - STAGE II
STA. 8+77.75 TO 15+00.4 - STAGE III



TEMP. CONN.

W.B. RTE. 40 TO RAMP 8 - STAGE II
E.B. RTE. 40 TO RAMP 4 - STAGE II
E.B. RTE. 40 TO RAMP 2 - STAGE III

FINAL PLANS

TYPICAL SECTIONS

RAMP 2
RAMP 8
TEMP. CONN.

FINAL PLANS

STAGES II & III
SH. 9 OF 11

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

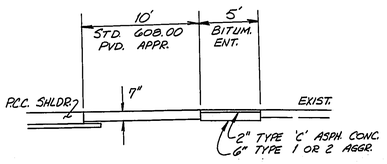
ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

QUALITY REPRO

1544 24 TO 1

STATE	JOB NO. J6I0647I	SHEET NO.
MO.		2
DIST. NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	270

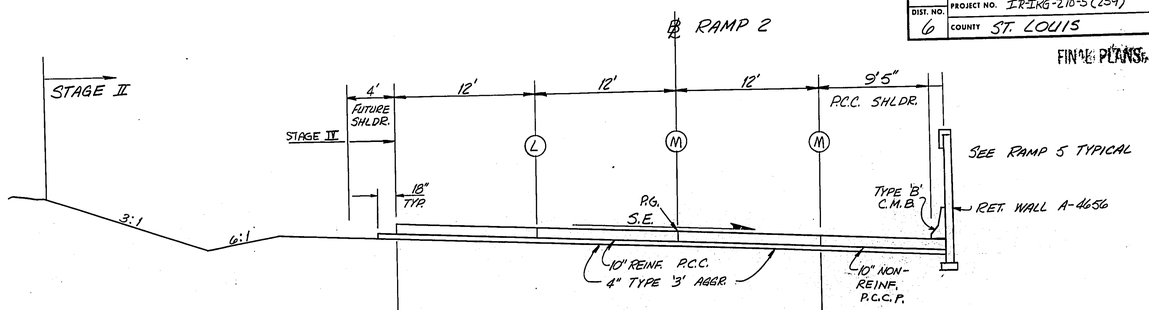
FINAL PLANS

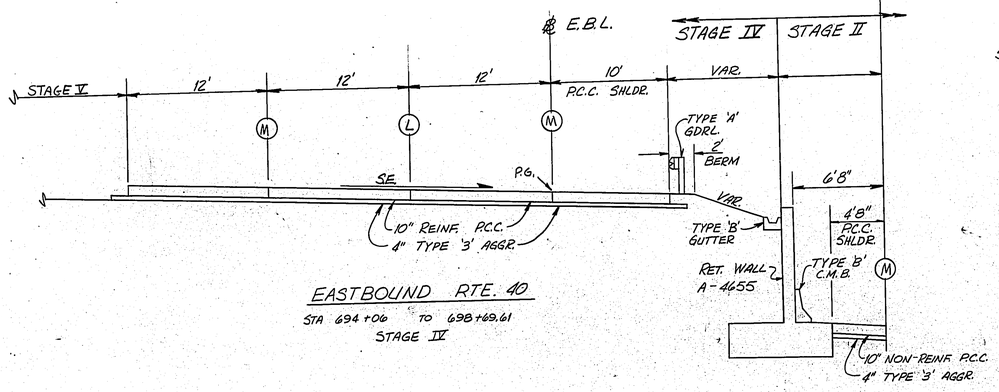


PAVED APPROACH

STA. 658+97 S. FORTY DR.

STAGE IV





EASTBOUND RTE. 40

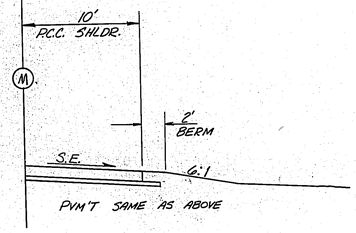
STA 694+06 TO 698+69.61

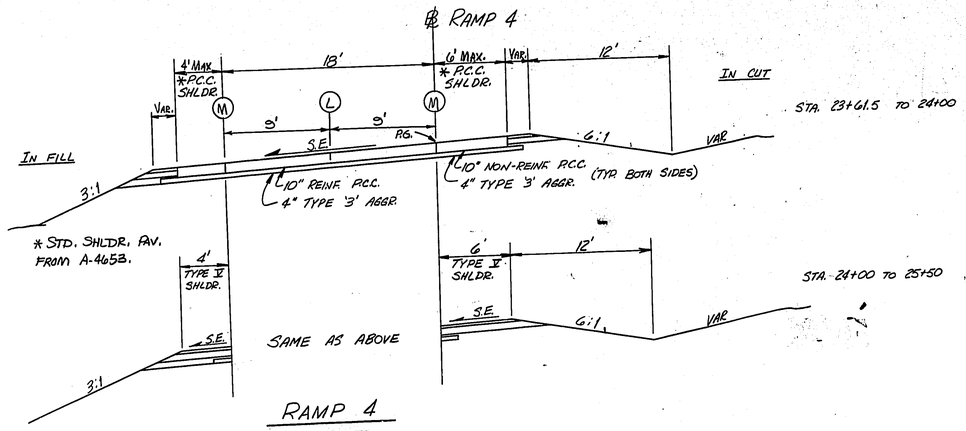
STAGE IV

RAMP 2

STA 26+36.96 TO 33+12.27

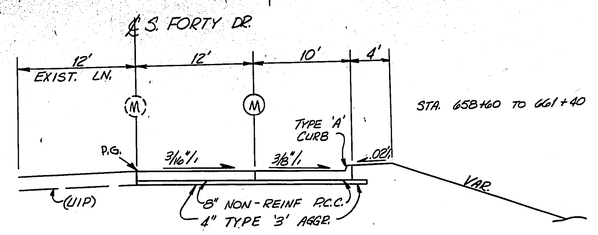
STAGE II





RAMP 4

STAGE IV



S. FORTY DR.

STAGE IV

FINAL PLANS

TYPICAL SECTIONS

EASTBOUND LNS.
RAMP 2
RAMP 4
S. FORTY DR.

STAGES II & IV

SH. 10 OF 11

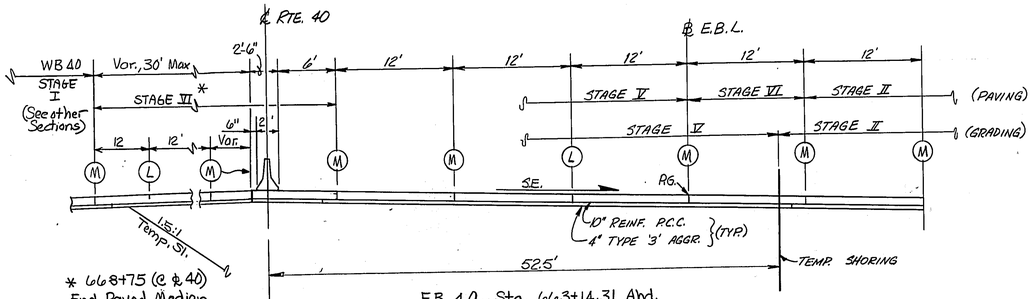
FINAL SURVEY — NOTE BOOK — NO. — SURVEYED BY — PLOTTED BY — TEMPLATE AREAS — AREAS CHECKED — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED BY — PLOTTED BY — TEMPLATE AREAS — AREAS CHECKED — DATE

QUALITY REPRO

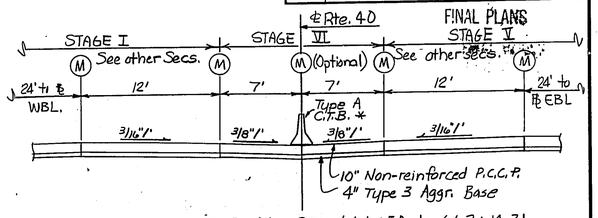
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I	SHEET NO. 2
DIST. NO. 6	PROJECT NO. IPARK-270-8(259)	ROUTE 270
	COUNTY ST. LOUIS	

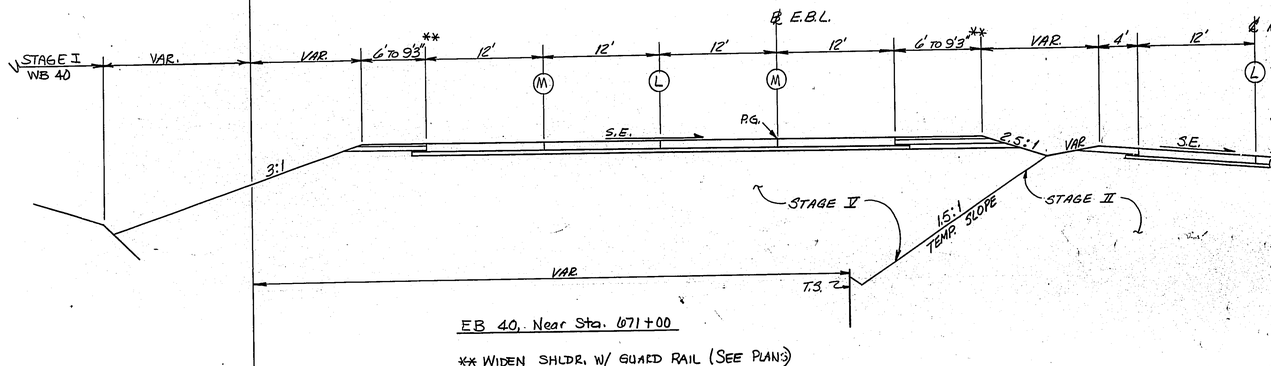


* 668+75 (℄ ℄ 40) End Paved Median STAGE VI.

EB 40, Sta. 663+14.31 Ahd.
(EB 40 on Tangent to Sta. 667+63.88)

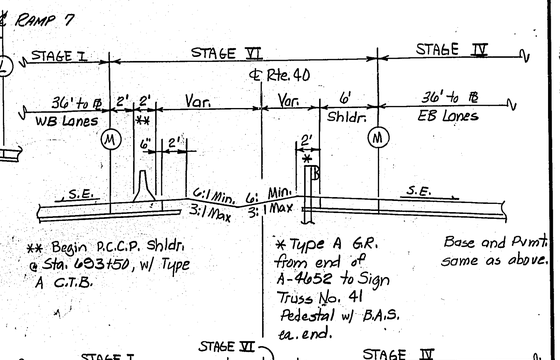


RTE. 40 STA. 661+50 to 663+14.31
* Const. Perm. C.T.B. Beginning @ Sta. 653+00



EB 40, Near Sta. 671+00

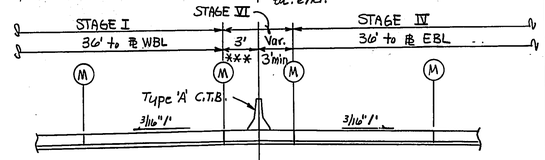
** WIDEN SHLDR. W/ GUARD RAIL (SEE PLANS)



** Begin P.C.C.P. Shldr. @ Sta. 693+50, w/ Type A C.T.B.

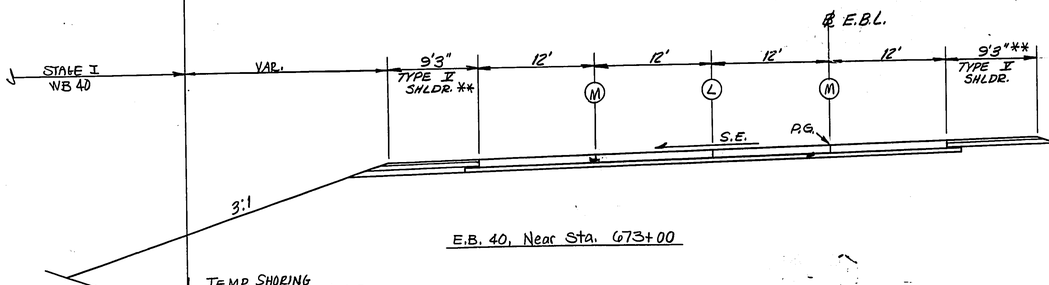
* Type A G.R. from end of A-4652 to Sign Truss No. 41 Pedestal w/ B.A.S. ea. end.

Base and Pvmt. same as above.



Base and Pvmt. Same as above.

*** Complete 6' median and/or Type 'A' C.T.B. to Sta. 703+00 ℄ ℄ 40 after traffic on compl. lanes, EB & WB 40. Median width varies ahead of Sign Tr. No. 41 to Sta. 687+63 ℄ (P.T. Cv. EBL-4).



E.B. 40, Near Sta. 673+00

FINAL PLANS

TYPICAL SECTIONS
EASTBOUND LANES
STAGE V
STAGE VI

SH. 11 OF 11

FINAL SURVEY — SURVEYED / PLOTTED / NOTE BOOK / TEMPLATE / AREAS CHECKED — DATE / BY / NO

ORIGINAL SURVEY — SURVEYED / PLOTTED / NOTE BOOK / TEMPLATE / AREAS CHECKED — DATE / BY / NO

QUALITY RECORD

1544 24 TO 1

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO. J6I0647I	SHEET NO.
MO		2A
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	I-270

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-10.00	CLASS A EXCAVATION	CU YD	295,547
203-55.00	EMBANKMENT IN PLACE	CU YD	74,934
203-60.00	COMPACTING EMBANKMENT	CU YD	225,639
203-70.75	COMPACTING IN CUT	STATION	60.3
206-30.00	CLASS 3 EXCAVATION	CU YD	4624
206-50.99	TEMPORARY SHORING	SQ FT	14,992
210-10.06	SUBGRADE COMPACTION (6-INCH DEPTH)	STATION	9.0
212-10.00	SUBGRADING AND SHOULDERING CLASS 1	STATION	9.0
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE) AC-20	TON	294.3
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	6321
304-00.43	TYPE 1 OR TYPE 2 AGGREGATE FOR BASE (4 IN. THICK)	SQ YD	65,648
304-03.43	TYPE 3 AGGREGATE FOR BASE (4 IN. THICK)	SQ YD	74,348
304-04.73	TYPE 4 AGGREGATE FOR BASE (7 IN. THICK)	SQ YD	18,115
403-10.11	ASPHALT CEMENT (ASPHALTIC CONCRETE) AC-20	TON	148.8
403-10.26	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	3005
403-10.27	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX) SPOT WEDGE	TON	0
407-10.05	TACK COAT	GALLON	130
502-11.07	CONCRETE PAVEMENT (7 IN. NON-REINF)	SQ YD	19493
502-11.08	CONCRETE PAVEMENT (8 IN. NON-REINF)	SQ YD	5252.2
502-11.10	CONCRETE PAVEMENT (10 IN. NON-REINF)	SQ YD	10,964
502-12.10	CONCRETE PAVEMENT (10 IN. REINFORCED)	SQ YD	30,059.9
503-10.00	BRIDGE APPROACH SLAB	SQ YD	575.3
601-10.00	FIELD LABORATORIES	LUMP SUM	1
604-20.10	ADJUSTING MANHOLE	EACH	1
606-10.10	GUARD RAIL TYPE A	LIN FT	6760
606-22.00	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)	EACH	20
606-23.00	TRANSITION SECTION	EACH	2
606-64.00	GUARD RAIL, RELOCATED AND MODIFIED	LIN FT	1050
606-66.10	END ANCHOR (BREAKAWAY)	EACH	12
606-66.20	END ANCHOR, EMBEDDED	EACH	1
606-99.98	SAFETY END TREATMENT: E.T. 2000	EACH	16
607-10.12	CHAIN-LINK FENCE (60 IN. TYPE A)	LIN FT	940
607-99.10	HEADLIGHT GLARE FENCE	LIN FT	1460
608-10.00	CONCRETE MEDIAN	SQ YD	0
609-10.41	CONCRETE GUTTER TYPE A	LIN FT	67
609-10.42	CONCRETE GUTTER TYPE B	LIN FT	2963

ITEM	DESCRIPTION	UNIT	QUANTITY
609-10.60	PAVED DITCH	SQ YD	2810.9
609-20.11	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A	LIN FT	142.3
609-20.13	INTEGRAL CURB TYPE M	LIN FT	1667
609-60.00	DITCH LINER	SQ YD	1718.0
611-60.10	CONCRETE SLOPE PROTECTION	SQ YD	2366.1
611-99.91	GROUT FILL IN DRAINAGE STRUCTURES	CU YD	65.0
612-20.11	IMPACT ATTENUATOR (11 SAND BARRELS)	EACH	1
612-20.20	REPLACEMENT SAND BARREL	EACH	60
612-20.30	IMPACT ATTENUATOR (RELOCATION)	EACH	8
612-90.10	INSTALLING GIVE EM A BRAKE 4 FT. X 8 FT. SIGN	EACH	0
612-90.20	INSTALLING GIVE EM A BRAKE 4 FT. X 4 FT. SIGN	EACH	0
612-99.00	IMPACT ATTENUATOR (HEX FOAM, 8 BAY, WIDE TYPE)	EACH	1
614-10.10	GRATES AND BEARING PLATES	POUND	6480
614-30.14	MANHOLE FRAME AND COVER TYPE 4	EACH	6
616-10.05	CONSTRUCTION SIGNS	SQ FT	2221
616-10.10	RELOCATED SIGNS	SQ FT	1365
616-10.20	CHANNELIZER (DRUM)	EACH	350
616-10.40	FLASHING ARROW PANEL	EACH	2
616-10.52	WARNING LIGHT, TYPE B	EACH	13
616-10.65	TEMPORARY RAISED PAVEMENT MARKER	EACH	635
616-10.80	EDGE DROP-OFF TREATMENT	LIN FT	6149
616-99.95	VARIABLE MESSAGE BOARD	EACH	2
617-10.00	CONCRETE TRAFFIC BARRIER, TYPE A	LIN FT	2074
617-10.99	MODIFIED TYPE A CONCRETE TRAFFIC BARRIER	LIN FT	900
617-20.00	CONCRETE TRAFFIC BARRIER, TYPE B	LIN FT	4540
617-50.00	TEMPORARY TRAFFIC BARRIER	LIN FT	0
617-50.10	RELOCATING TEMPORARY TRAFFIC BARRIER	LIN FT	7596
617-50.99	TYPE B TEMPORARY TRAFFIC BARRIER	LIN FT	0
617-60.00	STATE FURNISHED CONCRETE TRAFFIC BARRIER	LIN FT	5795
618-10.00	MOBILIZATION	LUMP SUM	1
620-53.01	PREFORMED REMOVABLE MARKING TAPE 4 IN., SOLID WHITE	100 FT	184.9
620-53.02	PREFORMED REMOVABLE MARKING TAPE 4 IN., INTERMITTENT WHITE	100 FT	31.7
620-53.03	PREFORMED REMOVABLE MARKING TAPE 4 IN., SOLID YELLOW	100 FT	130.6
620-60.00	4 IN. SOLID WHITE PAINT STRIPE	100 FT	769.7
620-60.01	4 IN. SOLID YELLOW PAINT STRIPE	100 FT	549.5
620-60.02	4 IN. INTERMITTENT WHITE PAINT STRIPE	100 FT	130.6
620-64.31	CONCRETE TRAFFIC BARRIER MARKING, 12 IN., SOLID WHITE	100 FT	80.7

ITEM	DESCRIPTION	UNIT	QUANTITY
620-64.32	CONCRETE TRAFFIC BARRIER MARKING, 13 IN., SOLID YELLOW	100 FT	121
620-70.00	PAVEMENT STRIPE REMOVAL (PAINT)	100 FT	446
620-70.05	PAVEMENT STRIPE REMOVAL (TAPE)	100 FT	200
701-10.60	60 IN. PEDESTAL PILE	LIN FT	173
703-40.30	CLASS B-1 CONCRETE (BARRIER CURBS)	CU YD	5
707-10.00	CONDUIT SYSTEM ON STRUCTURE	LUMP SUM	1
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	1320
725-10.12	12 IN. CORRUGATED METAL PIPE	LIN FT	129
725-10.24	24 IN. CORRUGATED METAL PIPE	LIN FT	309
725-10.36	36 IN. CORRUGATED METAL PIPE	LIN FT	152
726-13.12	12 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	225
726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	160
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	488
726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	386
726-13.30	30 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	142
726-13.42	42 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	272
726-13.48	48 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	413
726-99.18	JACKED 18 IN CL III REINFORCED CONCRETE PIPE (GASKET TYPE)	LIN FT	75
726-99.24	JACKED 24 IN CL III REINFORCED CONCRETE PIPE (GASKET TYPE)	LIN FT	110
726-99.30	JACKED 30 IN CL III REINFORCED CONCRETE PIPE (GASKET TYPE)	LIN FT	13
726-99.42	JACKED 42 IN CL III REINFORCED CONCRETE PIPE (GASKET TYPE)	LIN FT	92
726-99.48	JACKED 48 IN CL III REINFORCED CONCRETE PIPE (GASKET TYPE)	LIN FT	80
731-00.48	PRECAST CONCRETE MANHOLE - 48 IN.	FT	42
731-00.60	PRECAST CONCRETE MANHOLE - 60 IN.	FT	7
731-00.72	PRECAST CONCRETE MANHOLE - 72 IN.	FT	23
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X 2 FT	FT	24
731-10.33	PRECAST CONCRETE DROP INLET 3 FT X 3 FT	FT	22
731-10.42	PRECAST CONCRETE DROP INLET 4 FT X 2 FT	FT	94
731-10.52	PRECAST CONCRETE DROP INLET 5 FT X 2 FT	FT	12
731-10.53	PRECAST CONCRETE DROP INLET 5 FT X 3 FT	FT	10
732-00.12	12 IN. FLARED END SECTION	EACH	8
732-00.15	15 IN. FLARED END SECTION	EACH	4
732-00.18	18 IN. FLARED END SECTION	EACH	3
732-00.24	24 IN. FLARED END SECTION	EACH	9
732-00.30	30 IN. FLARED END SECTION	EACH	1
732-00.36	36 IN. FLARED END SECTION	EACH	2
732-00.42	42 IN. FLARED END SECTION	EACH	4

ST. LOUIS
I-27001
P.A.-270-5(259)

Sheet 1 of 4

FINAL PLANS

1544 24 TO 1

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO. J6I0647I	SHEET NO.
MO	PROJECT NO. IR-IR5-270-5(259)	2A
DIST NO. 6	COUNTY ST. LOUIS	ROUTE I-270

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
732-00.48	48 IN. FLARED END SECTION	EACH	2
802-30.00	TYPE 3 MULCH (7)	ACRE	41.5
805-10.00	SEEDING (7)	ACRE	41.5
	HIGHWAY LIGHTING		
901-10.60	TYPE AT-45 LIGHTING POLE, DESIGN 1	EACH	25
901-10.62	TYPE AT-45 LIGHTING POLE, DESIGN 2	EACH	6
901-10.64	TYPE AT-45 LIGHTING POLE, DESIGN 3	EACH	3
901-10.66	TYPE AT-45 LIGHTING POLE, DESIGN 4	EACH	3
901-10.72	TYPE MB-45 LIGHTING POLE, DESIGN 3	EACH	13
901-10.75	150 FT. HIGH MAST LIGHTING UNIT (7)	LUMP SUM	1
901-13.25	1000 WATT ASYMMETRICAL PATTERN H.P. SODIUM LUMINAIRE (TOWER LIGHT)	EACH	28
901-32.00	CONDUIT, 2 IN. RIGID STEEL, IN TRENCH	LIN FT	124
901-33.00	CONDUIT, 3 IN. RIGID STEEL, IN TRENCH	LIN FT	252
901-50.10	TRENCHING TYPE I	LIN FT	12,597
901-50.20	TRENCHING TYPE II	LIN FT	1,191
901-61.01	PULL BOX TYPE A	EACH	10
901-70.02	CABLE, 2 AWG 1 CONDUCTOR	LIN FT	1,940
901-70.06	CABLE, 6 AWG 1 CONDUCTOR	LIN FT	6,480
901-70.08	CABLE, 8 AWG 1 CONDUCTOR	LIN FT	740
901-71.10	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LIN FT	5,360
901-72.02	WIRE, 2 AWG, BARE NEUTRAL	LIN FT	670
901-72.06	WIRE, 6 AWG, BARE NEUTRAL	LIN FT	2,240
901-72.08	WIRE, 8 AWG, BARE NEUTRAL	LIN FT	370
901-74.02	1 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 4 AWG	LIN FT	6,960
901-74.04	1 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 6 AWG	LIN FT	2,040
901-74.07	1 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG	LIN FT	3,430
901-74.10	1 1/4 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 2 AWG	LIN FT	2,290
901-74.98	1 1/4 IN. CABLE-CONDUIT 2 CONDUCTORS AND 1 BARE NEUTRAL, 1 AWG	LIN FT	3,020
901-82.45	POLE FOUNDATION (45-FOOT MOUNTING HEIGHT)	EACH	37
901-91.50	CONDUIT, 1 1/2 IN. RIGID STEEL. IN MEDIAN	LIN FT	1,747
901-99.20	HOLOPHANE VECTOR 400 WATT H.P. SODIUM LUMINAIRE WITH BRACKET ARM (7)	EACH	62
901-99.61	12X12X12 IN. METAL JUNCTION BOX	EACH	2
	HIGHWAY SIGNING		
903-10.10	CONCRETE FOOTINGS, EMBEDDED	CU YD	54.3
903-10.20	CONCRETE FOOTINGS, BOLT DOWN	CU YD	476.3

ITEM	DESCRIPTION	UNIT	QUANTITY
903-12.10	STRUCTURAL STEEL POSTS	POUND	5010
903-12.40	BREAKAWAY ASSEMBLY	EACH	23
903-50.00	TYPE STR4 SIGNS	SQ. FT.	1,836
903-50.03	TYPE STR1 SIGN	SQ FT	190
903-50.05	TYPE SHR123 SIGN	SQ FT	56
903-50.06	TYPE SHR1 SIGN	SQ FT	220
903-50.13	MILEPOST	EACH	2
903-50.20	FLEXIBLE DELINEATOR, ELONGATED WHITE	EACH	89
903-50.21	FLEXIBLE DELINEATOR, WHITE	EACH	139
903-50.22	FLEXIBLE DELINEATOR, YELLOW	EACH	94
903-80.00	71 FT. OVERHEAD TRUSS (SIGN NO. 4)	LUMP SUN	1
903-80.01	50 FT. OVERHEAD TRUSS (SIGN NO. 23)	LUMP SUM	1
903-80.02	75 FT. OVERHEAD TRUSS (SIGN NO. 25)	LUMP SUM	1
903-80.03	80 FT. OVERHEAD TRUSS (SIGN NO. 41)	LUMP SUM	1
903-80.04	79 FT. 8IN. OVERHEAD TRUSS (SIGN NO. 44)	LUMP SUM	1
903-80.05	50 FT. OVERHEAD TRUSS (SIGN NO. 85)	LUMP SUM	1
903-81.00	20 FT. CANTILEVER TRUSS (SIGN NO. 49)	LUMP SUM	1
903-81.01	30 FT. CANTILEVER TRUSS (SIGN NO. 409)	LUMP SUM	1
903-99.04	SIGN LEGEND MODIFICATIONS, 4 SIGNS	LUMP SUM	1
903-99.99	RELAMPING EXISTING SIGNS WITH HOLOPHANE PANEL-VUE LUMINAIRES, 19 SIGNS (7)	LUMP SUM	1
	WALL DRAWING NO. A-4656 STATION 13+00.00		
703-20.10	CONCRETE FACE PANELS	SQ FT	1,903
	WALL DRAWING NO. A-4788 STATION 13+00.00		
703-20.10	CONCRETE FACE PANELS	SQ FT	7,715
	WALL DRAWING NO. A-4655 STATION 25+23.00		
206-10.00	CLASS 1 EXCAVATION	CU YD	758
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	2083
703-20.09	CLASS B CONCRETE (RETAINING WALLS)	CU YD	554.4
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	77,650
	WALL DRAWING NO. A-4677 STATION 417+30.00		
206-10.00	CLASS 1 EXCAVATION	CU YD	10
703-20.10	CONCRETE FACE PANELS	SQ FT	4,756
703-40.09	CLASS B-1 CONCRETE (RETAINING WALLS)	CU YD	139.2

ITEM	DESCRIPTION	UNIT	QUANTITY
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	1,690
	BRIDGE DRAWING NO. A-4653 STATION 421+91.76		
206-10.00	CLASS 1 EXCAVATION	CU YD	87.5
702-10.12	STRUCTURAL STEEL PILES (12 IN.)	LIN FT	342
702-60.00	PRE-BORE FOR PILING	LIN FT	120
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	82.5
703-20.25	DEADMAN ANCHORAGE ASSEMBLY	EACH	1
703-42.04	CLASS B-2 CONCRETE (SUPSTR ON STEEL)	CU YD	167.1
703-42.15	SAFETY BARRIER CURB	LIN FT	445
703-72.70	POT BEARING	EACH	9
703-82.35	PREFORMED COMPRESSION EXPANSION JOINT SEAL (3.5 IN.)	LIN FT	27
706-10.60	REINFORCING STEEL (PRIDGES)	POUND	14,560
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	56,160
712-10.20	FAB. STRUCT. CARBON STEEL (PLT GIR)	POUND	100,640
712-11.21	FAB. STRUCT. LOW ALLOY STEEL (PLT GIR) A-572	POUND	79,620
712-36.50	VERTICAL DRAIN AT END BENTS	EACH	2
712-40.05	PAINTING (SYSTEM C) GREEN	TON	89.2
	WALL DRAWING NO. A-4591R STATION 658+60.00		
206-10.00	CLASS 1 EXCAVATION	CU YD	181
703-40.09	CLASS B-1 CONCRETE (RETAINING WALLS)	CU YD	308.7
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	35,500
712-98.35	WOODEN SOUND ATTENUATOR WALL	SQ FT	2,574
712-98.36	HEADLIGHT GLARE FENCE	LIN FT	40
	WALL DRAWING NO. A-4590R STATION 659+60.00		
206-10.00	CLASS 1 EXCAVATION	CU YD	31.5
703-40.09	CLASS B-1 CONCRETE (RETAINING WALLS)	CU YD	32.1
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	3580
	WALL DRAWING NO. A-4678 STATION 658+60.00		
206-10.00	CLASS 1 EXCAVATION	CU YD	130.5
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	5033
702-60.00	PRE-BORE FOR PILING	LIN FT	3472
703-40.09	CLASS B-1 CONCRETE (RETAINING WALLS)	CU YD	1,069.3
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	145,250

F.A.-270-5(259) I-270D1 ST. LOUIS

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Sheet 2 of 4

FINAL PLANS

1544 24 TO 1

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO. J6I0 6071	SHEET NO.
MO	PROJECT NO. IR-IRG-270-5(259)	2A
DIST NO. 6	COUNTY ST. LOUIS	ROUTE I-270

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
712-98.35	WOODEN SOUND ATTENUATOR WALL	SQ. FT.	2,811
	BRIDGE DRAWING NO. A-4652 STATION 689+88.30		
206-10.00	CLASS I EXCAVATION	CU. YD.	1390
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	1181
702-10.12	STRUCTURAL STEEL PILES (12 IN.)	LIN FT	901
702-60.00	PRE-BORE FOR PILING	LIN FT.	0
702-70.00	PILE POINT REINFORCEMENT	EACH	80
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	354.0
703-20.25	DEADMAN ANCHORAGE ASSEMBLY	EACH	1
703-42.12	SLAB ON STEEL	SQ YD.	1487
703-42.13	SLAB ON CONCRETE I-GIRDER	SQ YD	970
703-42.15	SAFETY BARRIER CURB	LIN FT	855
703-70.30	PLAIN NEOPRENE BEARING PAD	EACH	6
703-71.45	LAMINATED NEOPRENE BEARING PAD	EACH	18
703-71.60	LAMINATED NEOPRENE BEARING PAD (STEEL STRUCTURES)	EACH	18
703-72.50	TYPE N PTFE BEARING	EACH	6
703-83.30	ELASTOMERIC EXPANSION JOINT SEAL (3.0 IN.)	LIN FT.	51
705-11.81	PRESTRESSED CONCRETE I-GIRDER, 81 FT. SPAN	EACH	12
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	61,090
710-10.00	REINFORCING STEEL (EPOXY COATED)	POUND	3,200
712-10.20	FAB. STRUCT. CARBON STEEL (PLT. GIR)	POUND	241,100
712-11.21	FAB. STRUCT. LOW ALLOY STEEL (PLT GIR) A-572	POUND	62,830
712-36.10	SLAB DRAIN	EACH	40
712-36.50	VERTICAL DRAIN AT END BENTS	EACH	1
712-40.05	PAINTING (SYSTEM C) GREEN	TON	150.4

ITEM	DESCRIPTION	UNIT	QUANTITY
	CONTINGENT ITEMS - ROADWAY		
501.01 - C.O.#23	6" TYPE 1 OAZ AGGREGATE	SQ. YD	0
501.02 - C.O.#1	SPARE PARTS FOR ET-2000	EACH	1
501.03 - C.O.#2	ADJUSTED DROP INLETS	EACH	3
501.04 - C.O.#12	RELOCATED HDLT. GLARE FENCE	LIN FT.	750
501.05 - C.O.#23	PAVED APPROACH 7"	SQ YD.	224.8
501.06 - C.O.#23	CURB AND GUTTER, TYPE 'B'	LIN FT	0
501.07 - C.O.#3	CRUSHED STONE - (TEMPORARY)	TON	305
501.08 - C.O.#3	ADDITIONAL REM OF IMPROVE	LUMP SUM	1
501.09 - C.O.#23	REPLACE RAISED PAVT MARK	EACH	534
501.10 - C.O.#4	SPEC. REM OF IMPROVEMENTS	LUMP SUM	1
501.11 - C.O.#23	LIM. PAT DIRECTIONAL ARROWS	EACH	9
501.12 - C.O.#4	RESTORATION OF SITE	LUMP SUM	1
501.13 - C.O.#4	SPAN WIRE ASS, DBL MESSNGR	LIN. FT	1035
501.14 - C.O.#4	CONT. ASMBLY, 8 PHASE DP	EACH	2
501.15 - C.O.#4	VEH DET INDUCTION LOOP 1C	EACH	8
501.16 - C.O.#4	CONDUIT, 1¼ IN, TRENCH	LIN. FT.	124
501.17 - C.O.#4	COND. 2 IN. TRENCH	LIN. FT.	126
501.18 - C.O.#4	CABLE 8 AWG 1 COND, PWR	LIN. FT.	600
501.19 - C.O.#4	CABLE 12 AWG 2 COND	LIN. FT.	1610
501.20 - C.O.#4	CABLE 12 AWG 7 COND	LIN. FT.	2740
501.21 - C.O.#4	CABLE LOOP DET, IN DUCT	LIN. FT.	2410
501.22 - C.O.#4	CABLE LOOP DET, LEAD-IN	LIN. FT.	1560
501.23 - C.O.#4	4 FT. BRACKET ARM	EACH	4
501.24 - C.O.#4	10 FT. BRACKET ARM	EACH	1
501.25 - C.O.#4	15 FT. BRACKET ARM	EACH	3
501.26 - C.O.#4	1.25 COND. ON POLE	LIN. FT.	200
501.27 - C.O.#4	4.00 COND. ON POLE	LIN. FT.	46
501.28 - C.O.#4	120/240, POWER SUPPLY	EACH	2
501.29 - C.O.#4	SIGNAL HEAD TYPE 3C	EACH	27
501.30 - C.O.#4	SIGNAL HEAD, TYPE 5C	EACH	3
501.31 - C.O.#4	150W, 120V, HP SOD. LUM.	EACH	8
501.32 - C.O.#4	WD. SPAN WIRE POLE, 35 FT.	EACH	16
501.33 - C.O.#23	TYPE II OBJECT MARKERS	EACH	117
501.34 - C.O.#6	ADJUST INLET 3-B5	LUMPSUM	1
501.35 - C.O.#6	TEMPORARY GUARD RAIL	LIN. FT.	1437
501.36 - C.O.#8	TRAFFIC STAGING REVISION	LUMPSUM	1

ITEM	DESCRIPTION	UNIT	QUANTITY
501.37 - C.O.#23	TEMPORARY BERMS	LIN. FT.	0
501.38 - C.O.#23	SLOPE DRAINS	LIN FT.	62
501.39 - C.O.#23	SILT FENCE DITCH CHECKS	EACH	39
501.40 - C.O.#23	SEDIMENT REMOVAL	C.Y. YD.	30
501.41 - C.O.#23	SILT FENCE	LIN. FT.	3689
501.42 - C.O.#10	SPECIAL 12" REIN. CURB	LIN. FT.	848
501.43 - C.O.#23	CONC. CURB 6" TYPE S	LIN. FT.	675
501.44 - C.O.#23	SOD	SQ. YD.	2781
501.45 - C.O.#24	K JT. SUBSTITUTION	LIN. FT.	3163
501.46 C.O.#23	SPECIAL REMOVALS	LUMPSUM	1
501.47 C.O.#23	SPECIAL CURB	LIN. FT.	320
501.48 C.O.#24	TYPE E GUARD RAIL	LIN. FT.	25
501.49 C.O.#24	GUARD RAIL REFLECTORS	EACH	37
501.50 C.O.#24	TYPE C GUARD RAIL	LIN. FT.	75
501.51 C.O.#24	CONST. SIGNING CHANGE	LUMPSUM	1
501.52 C.O.#24	PED. PILES 60 IN. + 25%	LIN. FT.	7
501.53 C.O.#24	PRECAST D.I. 3'X2'-6"	LIN. FT.	5
501.54 C.O.#24	REGRADE, SEED & MULCH	LUMPSUM	1
501.55 C.O.#24	SLOTTED DRAIN REVISION	LUMPSUM	1
501.56 C.O.#24	HEX FORM CONVERSION KIT	LUMPSUM	1
501.57 C.O.#24	SOUND WALL - PAINT TEST SECTION	LUMPSUM	1
501.58 C.O.#24	GUARD RAIL REMOVAL	LUMPSUM	1
501.59 C.O.#24	EROSION REPAIR	F.A.	36196.89
501.60 C.O.#24	CLASS 'C' EXCAVATION	CU. YD	2376
501.61 C.O.#24	PAINT TEST SECTION NO. 2	LUMPSUM	1
	CONT. ITEMS - LIGHTING		
502.01 C.O.#10	CABLE 4 AWG 1 COND	LIN. FT.	1530
502.02 C.O.#10	WIRE, 4 AWG, BARE NEUTRAL	LIN. FT.	770
502.03 C.O.#10	400. WHP SOD LUM (VECT.)	EACH	4
502.04 C.O.#10	COND, 1.5 IN RS, TR.	LIN. FT.	311
502.05 C.O.#24	3" PVC CONDUIT	LIN. FT.	1085
502.06 C.O.#24	#00 CABLE	LIN. FT.	4960
502.07 C.O.#24	REPLACE VECT. LT. FIXTURE	LUMPSUM	1
502.08 C.O.#24	LOCATE FAULT ON CIRC. N2	LUMPSUM	1
502.09 C.O.#24	INSTALL COND. & CABLEDUCT	LUMPSUM	1
502.10 C.O.#24	SPECIAL COND. TRUSS #15	LUMPSUM	1

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Sheet 3 of 64

FINAL PLANS

1544 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO. J6I0647I	SHEET NO.
MO	PROJECT NO. IR-IR6-270-5(259)	2A
DIST NO. G	COUNTY St. Louis	ROUTE I-270

FINAL PLANS

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
503.01-00K	Cont. Items Signing COL. REV. SIGN #49	LUMPSUM	1
503.08-20N	TYPE SHR-24 SIGNS	SQFT.	195
503.03-00K	SPECIAL WORK TRUSS L116.	LUMPSUM	1
	BRIDGE A-4653		
508.01-00S	PAINT SPEC. CHANGE	LUMPSUM	1
508.02-00S	GIRDER ADJUSTMENT	LUMPSUM	1
	RET. WALL A-4678		
511.01-00S	ADDITIONAL RESTEEL	LUMPSUM	1
511.02-00S	ADDITIONAL STEELCUTTING	LUMPSUM	1
	BRIDGE A-4652		
512.01-00S	EXPANSION JOINT MATERIAL	LUMPSUM	1

ITEM	DESCRIPTION	UNIT	QUANTITY

ITEM	DESCRIPTION	UNIT	QUANTITY

Accepted: 2-13-94

Prepared By: W.K. Sloan

Resident Engineer: [signature] Date: 12/6/93

Distr. Office: Michael Manion Date: 5/23/94

Main Office: Mark A. Adams Date: 6/29/94

Sheet 4 of 4

FINAL PLANS

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1544 24 TO 1

SP-2BS REV JAN. 88

STATE MO.	JOB NO. JCI0647I	SHEET NO. 2B
DIST. NO. 6	PROJECT NO. IR-IRS-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

T.C.P. SHEET 1 OF 1

FINAL PLANS

SUMMARY OF QUANTITIES

SIGN	SIZE (INS)	AREA (SQ FT)	QTY	TOTAL AREA (SQ FT)	QTY. RELOC.	TOTAL RELOC. AREA (SQ FT)	DESCRIPTION
WARNING SIGNS							
W01-1Lb	48x48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48x48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48x48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48x48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48x48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48x48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48x48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4Lb2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4Rb	48x48	16.0	1	11			REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48x24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72x36	18.0	1	18			HORIZONTAL ARROW (SYMBOL)
W01-7	48x24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72x36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18x24	3.0	62	186			CHEVRON (SYMBOL)
W03-1b	48x48	16.0					STOP AHEAD
W03-2b	48x48	16.0	2	32			YIELD AHEAD
W03-3b	48x48	16.0					SIGNAL AHEAD (SYMBOL)
W03-4b	48x48	16.0					BE PREPARED TO STOP
W04-1Lb	48x48	16.0	1	16			MERGE (SYMBOL FROM LEFT)
W04-1Rb	48x48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1a	48x48	16.0	12	192	4	64	ROAD NARROWS
W05-3a	48x48	16.0					ONE LANE BRIDGE
W06-1b	48x48	16.0					DIVIDED HIGHWAY
W06-2b	48x48	16.0					DIVIDED HIGHWAY ENDS
W06-3b	48x48	16.0					TWO WAY TRAFFIC (SYMBOL)
W06-3x	24x18	3.0					TWO WAY TRAFFIC (PLAQUE)
W08-1b	48x48	16.0					BUMP
W08-2b	48x48	16.0					DIP
W08-3	48x48	16.0					PAVEMENT ENDS
W08-4b	48x48	16.0					SOFT SHOULDER
W08-5b	48x48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6b	48x48	16.0					TRUCK CROSSING
W08-6c	48x48	16.0					TRUCK ENT. (Includes 1000 FT./1500 FT. plate W025-1a)
W08-7a	36x36	9.0					LOOSE GRAVEL
W08-9	48x48	16.0					LOW SHOULDER
W08-9La	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR LEFT DROPOFF)
W08-9Ra	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR RIGHT DROPOFF)
W09-1R	48x48	16.0	1	16			RIGHT LANE ENDS (Includes LEFT/CENTER plate WO25-3c)
W09-2Ra	48x48	16.0	2	32			LANE ENDS MERGE RIGHT (Includes LEFT plate WO25-3b)
W10-1a	42 Dia.	9.6					RAILROAD CROSSING
W012-1	24x24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W012-2a	48x48	16.0	1	16	8	128	LOW CLEARANCE (SYMBOL)
W012-2x	24x18	3.0			4	12	LOW CLEARANCE (PLAQUE)
W012-3a,b	144x24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W013-1a	24x24	4.0	10	40	2	8	ADVISORY SPEED (PLAQUE)
WO20-1	48x48	16.0			3	48	ROAD CONST. AHEAD (Incl. RAMP/BRIDGE plate WO25-6)
WO20-2	48x48	16.0					DETOUR AHEAD (Includes 500 FT./1000 FT. plate WO25-1b)
WO20-3	48x48	16.0					RD. CLOSED AHEAD (Incl. 500 FT./1000 FT. plate WO25-1c)
WO20-4a	48x48	16.0					ONE LN. RD. AHD (Incl. 1000 FT./1500 FT. plate WO25-1a)
WO20-5	48x48	16.0					RT. LN. CLOSED AHEAD (Incl. LEFT/CENTER plate WO25-3d)
WO20-6a	48x48	16.0					RIGHT LANE CLOSED (Incl. LEFT/CENTER plate WO25-3c)
WO20-7a	48x48	16.0					FLAGMAN AHEAD (Incl. 500 FT./1000 FT. plate WO25-1b)
WO20-8	36x18	4.5					WORKERS AHEAD
WO20-9c	48x48	16.0	2	32			OPEN TRENCH
WO21-2b	48x48	16.0					FRESH OIL
WO21-5b	48x48	16.0	1	16			SHOULDER WORK AHEAD
WO21-7	36x36	9.0					SAND BLASTING
WO22-1	48x48	16.0					BLASTING ZONE 1000 FT.
WO22-2	42x36	10.5					TURN OFF 2-WAY RADIO
WO22-3	42x36	10.5					END BLASTING ZONE
WO25-1a	26x9						1000 FT./1500 FT. Plate
WO25-1b	38x9	24	15	36	7	17	500 FT./1000 FT. Plate
WO25-1c	34x9						500 FT./1000 FT. Plate
WO25-3b	30x9	1.88					LEFT Plate
WO25-3c	33x9	2.06					LEFT/CENTER Plate
WO25-3d	22x9	1.38					LEFT/CENTER Plate
WO25-5	30x12	2.5	3	7.5	2	5	1/2 MILE/1 MILE (PLAQUE)
WO25-6	28x9	1.75					RAMP/BRIDGE Plate
REGULATORY SIGNS							
R1-1b	48x48	13.25					STOP
R1-2a	48x48x48	6.90	5	34.5			YIELD
R1-3	20x9	1.25					4-WAY (PLAQUE)
R1-5	20x9	1.25					3-WAY (PLAQUE)
R2-1b	36x48	12.0	7	84	6	72	SPEED LIMIT XX
R2-5b	36x48	12.0	4	48			REDUCED SPEED AHEAD
R3-1b	36x48	12.0					NO RIGHT TURN
R3-2b	36x48	12.0					NO LEFT TURN
R3-3a	36x36	9.0					NO TURNS
R3-4b	36x48	12.0					NO U-TURN
R3-7L	30x30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30x30	6.25			1	6	RIGHT LANE MUST TURN RIGHT
R4-1b	36x48	12.0					DO NOT PASS
R4-2b	36x48	12.0					PASS WITH CARE
R4-7Lb	36x48	12.0					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	36x48	12.0					KEEP RIGHT (HORIZONTAL ARROW)
R4-17L	36x36	9.0					KEEP LEFT
R4-17R	36x36	9.0					KEEP RIGHT
R5-1	30x30	6.25					DO NOT ENTER
R5-1a	36x24	6.0					WRONG WAY
R6-1La	48x18	6.0					ONE WAY ARROW (LEFT)
R6-1Ra	48x18	6.0					ONE WAY ARROW (RIGHT)
R6-2La	24x30	5.0					ONE WAY (LEFT)
R6-2Ra	24x30	5.0					ONE WAY (RIGHT)
R11-2	48x30	10.0	1	10			ROAD CLOSED
R11-3	60x30	12.5					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60x30	12.5					ROAD CLOSED TO THRU TRAFFIC
R12-3b	36x36	9.0					TO ONCOMING TRAFFIC (PLAQUE)
R20-1	36x18	4.5					WHEN FLASHING
GUIDE SIGNS							
GO20-1	60x36	15.0			1	10	ROAD CONSTRUCTION NEXT XX MILES
GO20-2	60x24	10.0					END CONSTRUCTION
MO4-8a	30x15	3.13					DETOUR (PLAQUE)
MO4-9L	48x36	12.0					DETOUR (LEFT ARROW)
MO4-9R	48x36	12.0					DETOUR (RIGHT ARROW)
MO4-10L	48x18	6.0					DETOUR (ARROW LEFT)
MO4-10R	48x18	6.0					DETOUR (ARROW RIGHT)
MO4-11	24x18	3.0					DETOUR ENDS
M5-1L	21x15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21x15	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							
WO1-4Rb3	48x48	16.0	12	192	2	32	TRIPLE ARROW REVERSE CURVE (SYMBOL)
WO1-4Lb3	48x48	16.0	4	64	4	64	TRIPLE ARROW REVERSE CURVE (SYMBOL)
WO3-7R	48x48	16.0	2	32	2	32	RIGHT LANE MUST EXIT
WO3-7L	48x48	16.0	3	48			LEFT LANE MUST EXIT
WO4-3	48x48	16.0	6	96	2	32	MERGE (SYMBOL)
WO25-2	24x6	1.0					200 FT.
WO25-2a	24x9	1.63					500 FT.
W13-2	48x60	20.0	2	40	1	20	EXIT 20 MPH
SPCL	24x24	4.0	3	12			SOUTH 270
SPCL	48x48	16.0	2	32			LANE NARROWS AHEAD
SPCL	18'x7'	56.0	3	168			SIGNS 123,126
SPCL	6'x6'	48.0	3	144			SIGNS 32,37,39
SPCL	36x36	9.0	1	9			EXIT
SPCL	6'x6'	36.0	1	36			BALLAS ROAD EXIT ONLY
SPCL	36x18	4.5	1	4.5			LEFT LANE
SPCL	4'x6'	24.0	1	24			270 NORTH, LEFT LANE 3/4 MILE
616-10.05 CONSTRUCTION SIGNS TOTAL			SUB-	1,733.5			
616-10.10 RELOCATED SIGNS TOTAL			SUB-	550.0			

ITEM NO.	SIZE (INS)	TOTAL QTY.	DESCRIPTION
616-10.20	36x18	350	CHANNELIZER (DRUM)
616-10.35	8x24		TYPE I BARRICADE (One Rails)
616-10.36	8x24		TYPE II BARRICADE (Two Rails)
616-10.40	36x72	2	FLASHING ARROW PANEL
616-10.45	18X18		TYPE I OBJECT MARKER
616-10.46	6x12	117	TYPE II OBJECT MARKER (Temporary) CONT Sec. 5B
616-10.47	8x24		TYPE III OBJECT MARKER
616-10.50	8		FLASHING ELECTRIC LIGHT
616-10.51	---		WARNING LIGHT TYPE A
616-10.52	---	13	WARNING LIGHT TYPE B
616-10.53	---		WARNING LIGHT TYPE C
616.10.54	---		STROBE LIGHT
616-10.65	---	635	RAISED PAVEMENT MARKER, TEMP.
616-10.70	28		FLEXIBLE DELINEATOR
612-10.30	72x144		MOVABLE BARRICADE (Three Rails)
616-9995	---	2	VARIABLE MESSAGE BOARD
612-90.10	48x96	0	INSTALL GIVE EM A BRAKE SIGN
612-90.20	96x96	0	INSTALL GIVE EM A BRAKE SIGN
612-20.30	-	8	IMPACT ATTENUATOR RELOCATION
612-20.11	-	1	IMPACT ATTENUATOR (11 SAND BARRELS)
612-20.20	-	60	REPLACEMENT SAND BARREL
616-10.90	-	2	FLASHING ARROW PANEL
CONT 620.03	-	534	REPLACED RAISED PAVT MARKER TEMP
SEC 49	-	37	GUARD RAIL REFLECTORS

CONSTRUCTION SIGNS - CONTINUED

SIGN	SIZE	AREA (SUB-TOTAL)	QTY	TOT. AREA	DESCRIPTION
				1733.5	
SPCL	4'X6'	24.0	1	24	270 NORTH - LEFT LANE ONLY
SPCL	5'X6'	30.0	1	30	EXIT
SPCL	3'X48	12.0	3	36	EXIT
SPCL	24x18"	3.0	2	6	BALLAS ROAD (PLAQUE) EXITING RAMP / NORTH 270 / LEFT 2 BALLAS RD / SOUTH 270 EXITONLY
SPCL	*	391.5	1	391.5	* ORIGINALLY 55616.0 SF, EXTENDED PER SEE C.O. #8
TOTALS	—	—	—	2,221.0	(ITEM 616-10.05)

RELOCATED CONSTRUCTION SIGNS - CONTINUED

SIGN	SIZE	AREA (SUB-TOTAL)	QTY	TOT. AREA	DESCRIPTION
				550.0	
SPCL	—	184.0	1	184	EXISTING MOUNTED ON BRIDGE EAST TO SOUTH 270
SPCL	4'X3'	12.0	1	12	TRUCK TILT (SYMBOL)
SPCL	4'X4'	16.0	1	16	45 MPH
SPCL	85'X10'	85.0	1	85	270 SOUTH
SPCL	2'X4'	8.0	1	8	SLOW
SPCL	3'X6'	18.0	1	18	→ RIGHT ARROW
SPCL	12'X13'	156.0	1	156	CHICAGO / TULSA EXIT
SPCL	4'X4'	16.0	1	16	EXIT 2S
SPCL	12'X2'	24.0	1	24	EXIT ONLY
SPCL	4'X5'	20.0	2	40	EXIT
SPCL	8'X6'	48.0	3	144	EXIT 270
SPCL	3'X4'	12.0	1	12	EXIT
SPCL	4'X9'	36.0	1	36	HOSPITAL NEXT RIGHT
SPCL	4'X10'	40.0	1	40	RIGHT LANE MUST EXIT
SPCL	2'X12'	24.0	1	24	270 NORTH LEFT LANE ONLY
TOTALS	—	—	—	1,365	(ITEM 616-10.10)

DATE	BY	
		SURVEYED
		PLOTTED
		AREAS
		AREAS CHECKED
		NOTE BOOK
		NO.

FINAL SURVEY

DATE	BY	
		SURVEYED
		PLOTTED
		AREAS
		AREAS CHECKED
		NOTE BOOK
		NO.

ORIGINAL SURVEY

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO		
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET NO.= LIGHTS & SIGNS SHEETS

ALL STAGES, LIGHTING 2B SHEET 1 OF 2

POLES, ARMS AND LUMINAIRES

SHEET NO.	POLE NO.	STA.	OFFSET	LOC.	POLES: AT-30	B-30	AT-45 DI	2	3	4	5	B-45 D3	M5 45 D3	BRACKET ARMS: 4'	6'	8'	10'	12'	15'	H.P. SODIUM LUMINAIRES (I.E.S. PATTERNS): 250W I	4WY II	4WY III	IV	V	400W I	4WY II	4WY III	IV	V	1000W I	4WY II	4WY III	IV	V	UNDRPS	FOUNDATIONS 30'M.H.	45'M.H.	CABLE 10 AWG, 1 COND. POLE & BRKT. CIRCUIT
1	L2-1	380+15	110'LT	I-270			1																	1												1	115	L-2
1	L2-2	383+15	110'LT	I-270			1																	1												1	115	L-2
1	L2-3	386+15	110'LT	I-270			1																	1												1	115	L-2
1	L2-4	389+15	105'LT	I-270			1																	1												1	115	L-2
1	L2-5	392+15	110'LT	I-270			1																	1												1	105	L-2
2	L2-6	395+15	110'LT	I-270			1																	1												1	105	L-2
2	L2-7	398+15	110'LT	I-270			1																	1												1	105	L-2
2	M2-1	399+65	110'RT	I-270			1																	1												1	115	M-2
2	M2-2	402+65	120'RT	I-270			1																	1												1	115	M-2
1	M4-1	381+65	110'RT	I-270			1																	1												1	115	M-4
1	M4-2	384+65	110'RT	I-270			1																	1												1	115	M-4
1	M4-3	387+65	110'RT	I-270			1																	1												1	115	M-4
1	M4-4	390+65	110'RT	I-270			1																	1												1	115	M-4
1	M4-5	393+65	110'RT	I-270			1																	1												1	105	M-4
2	M4-6	396+65	110'RT	I-270			1																	1												1	115	M-4
5	N1-1	430+00	112'LT	I-270				1				1												1												1	105	N-1
5	N1-2	433+00	110'LT	I-270				1																1												1	85	N-1
7	N3-1	436+00	115'LT	I-270				1																1												1	115	N-3
7	N3-2	439+00	110'LT	I-270				1																1												1	115	N-3
7	N3-3	442+00	110'LT	I-270				1																1												1	115	N-3
7	N3-4	445+00	110'LT	I-270				1																1												1	115	N-3
7	N3-5	448+00	110'LT	I-270				1																1												1	115	N-3
7	N3-6	451+00	110'LT	I-270				1																1												1	115	N-3
7	N3-7	454+00	110'LT	I-270				1																1												1	115	N-3
	SUB-TOTALS EACH:						18			1														99												124	2580	-----
	ITEM NO. 901-						10.60	0.62		10.66				-	-	(24)	-	-	-					24												82.45	71.10	-----

NOT-UP (EDGELE INCLUDED WITH VECTOR LUMINAIRE

HOLOPHANE VECTOR LUMINAIRE (SEE SPECIAL PROVISIONS)

(7) HIGH MAST LIGHTING UNITS (TOWERS)

SHEET NO.	STA.	OFFSET	LOC.	TOWER NO	CIRCUIT	HIGH MAST POLES: 150 FT	H.P. SODIUM LUMINAIRES (ASSYMET. PATTERN): 1000 W	FOUNDATIONS: 60" PED	PILE
3	408+95	87'LT	I-270	1	O-2	1	4	28.0	20.0
4	12+25	58'LT	RAMP 2	2	M-3	1	4	28.0	
3	26+50	33'RT	RAMP 4	3	O-1	1	4	32.0	
4	674+82	69'RT	W.B.L. 40	4	V-1	1	4	24.0	
5	13+50	33'RT	RAMP 8	5	N-2	1	4	26.0	
6	24+65	48'RT	RAMP 6	6	V-2	1	4	22.0	
5	424+13	87'LT	I-270	7	N-2	1	4		
	TOTALS:					EACH 7	EACH 28		LIN FT 180.0
	ITEM NO. 901-					10.75	13.25	ITEM NO. 701-	10.60

SEE SPECIAL SHEETS FOR DETAILS, FOUNDNS, ETC.

TRENCHING

SHEET NO.	FROM	TO	CIRCUIT	TYPE I	TYPE II	TYPE III
1,2			L-2	1885	210	
2			M-2	385		
4			M-3	0		
1,2			M-4	1465	160	
5			N-1	635	70	
5			N-2	260		
7			N-3	1944	216	
3			O-1	210	20	
3			O-2	130	35	
	L.F. SUB-TOTALS:			6914	711	
	ITEM NO 901-50.			.10	.20	

POWER SUPPLY ASSEMBLIES ☐ P.S.

SHEET NO.	STA.	OFFSET	LOC.	TYPE I 2	BRKR A	FACE METER	CIR
				(U.I.P.)			L
				(U.I.P.)			M
				(U.I.P.)			N
				(U.I.P.)			O
	TOTALS:			- -			EACH

PRICE BID FOR POWER SUPPLY PEDESTAL (ITEM 901-99.99) SHALL INCLUDE CABLE-CONDUIT (#2 AWG, MIN) AND TRENCHING BETWEEN PEDESTAL AND UTILITY CO. FACILITIES.

CABLE & BARE WIRE, ONE CONDUCTOR (USE IN MEDIAN CONDUIT)

SHEET NO.			INSUL. CABLE: CIR	2 AWG	(600 CIR) 4 AWG	6 AWG	8 AWG	2 AWG	BARE WIRE: (600 CIR) 4 AWG	6 AWG	8 AWG
9	ALL		X			2X1000				1000	
11,12	PART		S-2		2X				425		(S2-1 & STA 709+00)
9,10	ALL		W-2			2X1240				1240	(S2-2 & S2-1)
11	PART		S-2		2X340		2X370		340		370
10	ALL EXCEPT	W1-1 TO W1-2 W-1									
11	BR A-4454	R-3	R-3	2X350							
11	SIGN 41	TO R3-5	R-3	2X320					350		
	L.F. TOTALS:			340	530	4480	740	2X370	320	670	4770
	ITEM NO 901-			70.02		70.06	70.08	72.02		72.06	72.08

PULL BOXES

SHEET NO.	STA.	OFFSET	LOC.	P.B. NO.	CONC. A	CONC. B	PREF'M. PLASTIC MORTAR	CIRCUIT
2	397+72	92'RT	I-270	14			(U.I.P.)	M-1, M-4
4	405+90	74'RT	I-270	2			(U.I.P.)	M-3
4	412+85	68'RT	I-270	4			(U.I.P.)	M-3
5	424+60	66'LT	I-270	6			(U.I.P.)	N-2
5	421+20	66'LT	I-270	7			(U.I.P.)	N-2
5	6+12	RT	RAMP 5	PB9N			(NOT A PAY ITEM)	N-2
	TOTALS:				-	-		EACH

SECONDARY SERVICE CONTROL STATION

SHEET NO.	STA.	OFFSET	LOC.	CONTROL LETTER	STD. DWG. NO.	SPCL. SHEET NO.	BREAKERS (AMPS) CIRCUIT MAIN	1	2	3	4	POSTMT 1 CIR	BASE MOUNT SINGLE 240V	MULTI. 240V	SINGLE 480V	MULTI. 480V
1	377+50	150'LT	I-270	L			100	30	30	-	-			(U.I.P.)		
2	399+28	137'RT	I-270	M			100	30	30	40	30			(U.I.P.)		
5,7	432+50	148'LT	I-270	N			100	30	50	30	-			(U.I.P.)		
3	12+15	95'RT	RAMP 1	O			100	30	30	-	-			(U.I.P.)		
	TOTALS, EACH:													-		

1 IN. CABLE-CONDUIT, 2 COND. & 1 B.N., 8 AWG

SHEET NO.	CONT. STA.	CIRCUIT	L.F.
	TOTAL:		

CABLE & NEUTRAL WIRE, 2 COND & 1 NEUTRAL (600 CIR) INSUL CABLE

SHEET NO			CIR	CONDUIT
4	PART	PB-2 to TOWER #2	M-3	2500
5	PART	TOWER #7 to 427+83 NB I-270	N-2	960
4	PART	SB I-270 @ RAMP #3	M-3	1500
	TOTAL			4960

1 IN. CABLE-CONDUIT, 2 COND. & 1 B.N., 4 AWG

SHEET NO.	CONT. STA.	CIRCUIT	L.F.
	TOTAL:		

1 1/4 IN. CABLE-CONDUIT, 2 COND & 1 BN, 2 AWG

SHEET NO.	CONT. STA.	CIRCUIT		L.F.
5,11	R	R-3	ALL EXCEPT SIGN 41 TO R3-5	1970
3	O	O-1	SIGN 61 TO TOWER 3	320
ITEM 901-74.01			L.F. TOTAL:	2290

17 18

LIGHTING, PART 1

FINAL PLANS

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO	PROJECT NO. IR-IRS-270-5(259)	ROUTE
DIST NO. 6	COUNTY ST LOUIS	I-270

SHEET NO.= LIGHTS & SIGNS SHEET

ALL STAGES, LIGHTING 2B SHEET 2 OF 2

POLES, ARMS AND LUMINAIRES

SHEET NO.	POLE NO.	STA.	OFFSET	LOC.	POLES: AT-30	B-30	AT-45: D1	2	3	4	5	B-45 MS-45: D3	D3	BRACKET ARMS: 4'	6'	8'	10'	12'	15' (U.I.P.)	H.P. SODIUM LUMINAIRES (I.E.S. PATTERNS): 250W (U.I.P.)	400W (U.I.P.)	W	150W	FOUNDATIONS: UNDRPS	30'M.H.	45'M.H. (U.I.P.)	CABLE: 10 AWG, 1 COND. POLE & BRKT.	CIRCUIT
11	R3-1	12+34	15'RT	RAMP 9				(U.I.P.)																			(U.I.P.)	- R-3
5	R3-2	125+22	48'LT	RAMP 2				1						CAT NO. BKT-10-P (SINGLE)					1							1	95 R-3
11	R3-3	693+20	11'RT	RTE 40			1						1	CAT NO. BKT-12-P (DOUBLE)					2							1	120 R-3
11	R3-4	696+20	℄	RTE 40									1	BKT-12-P (DOUBLE)					2	1-NORTH	1-SOUTH					-	100 R-3
11	R3-5	698+60	℄	RTE 40									1	BKT-12-P (DOUBLE)					2	1-NORTH	1-SOUTH					-	100 R-3
6	V3-1	428+50	82'RT	I-270			1							BKT-12-P (DOUBLE)					2							-	100 R-3
6	V3-2	431+50	110'RT	I-270			1							BKT-10-P (SINGLE)					1							1	120 V-3
8	V3-3	434+50	110'RT	I-270			1							BKT-10-P (SINGLE)					1							1	115 V-3
8	V3-4	437+50	110'RT	I-270			1							BKT-10-P (SINGLE)					1							1	115 V-3
8	V3-5	440+50	110'RT	I-270			1							BKT-10-P (SINGLE)					1							1	115 V-3
8	V3-6	443+50	110'RT	I-270				1						BKT-10-P (SINGLE)					1							1	105 V-3
8	V3-7	446+50	110'RT	I-270					1					BKT-10-P (SINGLE)					1							1	95 V-3
8	V3-8	449+50	110'RT	I-270					1					BKT-10-P (SINGLE)					1							1	95 V-3
8	V3-9	452+50	110'RT	I-270						1				BKT-10-P (SINGLE)					1							1	85 V-3
8	V3-10	455+50	110'RT	I-270						1				BKT-10-P (SINGLE)					1							1	85 V-3
9	W2-1	654+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							-	100 W-2
9	W2-2	657+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							-	100 W-2
10	W2-3	660+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							-	100 W-2
10	W2-4	663+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							-	100 W-2
10	W1-1	666+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							-	100 W-1
10	W1-2	669+15	6'LT	RTE 40			1							BKT-12-P (DOUBLE)					2							1	120 W-1
9	X1	642+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							(U.I.P.)	100 X
9	X2	645+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							(U.I.P.)	100 X
9	X3	648+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							(U.I.P.)	100 X
11	X4	651+15	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							(U.I.P.)	100 X
11	X5	1705+20	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							(U.I.P.)	100 X
11	X6	701+90	℄	RTE 40									1	BKT-12-P (DOUBLE)					2							(U.I.P.)	100 X
SUBTOTALS THIS SHEET							7	1	3	2			13	(10) SINGLE					(14) DOUBLE							13	2680 ---- ----
SUBTOTALS FROM PREVIOUS 2B SHEET							18	5	30	1			0	(24) SINGLE					(0) DOUBLE							24	2680 ---- ----
TOTALS EACH:							25	6	33	3			13	(34)					(14)							37	8360 ---- ----
ITEM NO. 901-							10.60	0.62	0.64	0.66			0.72	-	-	-	-	-	-		99.20					82.45	71.10 ---- ----

RIGID STEEL CONDUIT

SHEET NO.	STA.	OFFSET	LOC.	IN TRENCH (IN.): 1.50	2.00	2.50	3.00	3.50	4.00	5.00	FROM	TO	IN MEDIAN (IN.): 1.50	2.00	2.50	3.00	3.50	4.00	5.00	CIR
5	13+40	℄	RAMP 8			40					PB7	TOWER 5								N-2
6	674+80	℄	E.B.L. 40			70					TOWER 4	SIGN 47								V-1
10	664+26	664+30	℄ RTE 40			14					JB W1A	SIGN 44								W-1
10	664+05	℄	S.40 DR				102				JB W1A	M								W-1, W-2
9	654+15	657+15	℄ RTE 40								W2-1	W2-2	306							W-2
9,10	657+15	660+15	℄ RTE 40								W2-2	W2-3	306							W-2
10	660+15	663+15	℄ RTE 40								W2-3	W2-4	306							W-2
10	663+15	666+26	℄ RTE 40								W2-4	JB W1A	117							W-2
10	664+26	666+15	℄ RTE 40								JB W1A	W1-1	198							W-1
11	BR. A-4654		RAMP 9	SEE "CONDUIT SYSTEM ON STRUCTURE" - LUMP SUM (ITEM 707-10.00)																R-3
11	695+80	696+20	℄ RTE 40								SIGN 41	R3-4	46							R-3
11	696+20	698+60	℄ RTE 40								R3-4	R3-5	246							R-3
2,4	TRUSS "G" & PB2		SB I-270				150				S2-1	S2-4	222							S-2
											S2-1	S2-2	311							S-2
L.F. TOTALS:						124	252													
ITEM NO. 901-3.__.t						2.00	3.00						901-9.__.t 1.50							

INSTALL MEDIAN CONDUIT ON TOP OF PAVEMENT, UNDER CONCRETE TRAFFIC BARRIER (50.04)

TRENCHING

SHEET NO.	FROM	TO	CIRCUIT	TYPE I	TYPE II	TYPE III
5,11			R-3	1150	125	
6	TOWER 4	SIGN 47	V-1	310	35	
6			V-2	455	50	
6,8			V-3	2435	270	
10			W-1	300	0	
9,10			W-2	0	0	
9			X	0	0	
11			S-2	813		
1			M-4	50		
1			L-2	130		
5			N-2	40		
SUBTOTALS FROM PREVIOUS 2B:				6914	711	
L.F. TOTALS:				12597	1191	
ITEM NO 901-50.__				.10	.20	

POWER SUPPLY ASSEMBLIES ☐ P.S.

SHEET NO.	STA.	OFFSET	LOC.	TYPE 1	TYPE 2	BRKR A	METER	FACE CIR
				(UIP)				V
				(UIP)				W
TOTALS:				-	-	EACH		

PRICE BID FOR POWER SUPPLY PEDESTAL (ITEM 901-99.99) SHALL INCLUDE CABLE-CONDUIT (#2 AWG, MIN) AND TRENCHING BETWEEN PEDESTAL AND UTILITY CO. FACILITIES.

3" PVC (502.05)

SHEET NO	CIR	LOCATION	3"
4	M-3	PB-2 & TOWER #2	775
5	N-2	TOWER #7 & STA 427+23 NB I-270	310
		LF TOTAL	1085

PULL BOXES

SHEET NO.	STA.	OFFSET	LOC.	P.B. NO.	CONC. A	CONC. B	12X12X12 JUNCTION BOX ■	CIRCUIT
11	10+00	23'LT	RAMP 9	R3 A	(UIP)			R-3
11	7+18	25'LT	RAMP 9	R3 B	1			R-3
11	26+73	35'LT	RAMP 2	R3 C	1			R-3
TOTALS:					10		2	EACH
ITEM NO 901-61.__					.01		-99.61	

SECONDARY SERVICE CONTROL STATION ⋈

SHEET NO.	STA.	OFFSET	LOC.	CONTROL LETTER	STD. DWG. NO.	SPCL. SHEET NO.	BREAKERS (AMPS) CIRCUIT: MAIN	1	2	3	4	POSTMT 1 CIR 240V	BASE MOUNT SINGLE 240V	MULTI. 240V	SINGLE 480V	MULTI. 480V
11	123+90	76'LT	EX ℄ JJ	R			100	30	-	30	-			(UIP)		
6	423+53	35'LT	S.40 DR	V			100	30	30	30	-			(UIP)		
10	664+00	30'RT	S.40 DR	W			100	30	30	-	-			(UIP)		
9	643+00	120'RT	RTE 40	X			100	30	-	-	-					(UIP)
TOTALS, EACH:												—				

1 IN. CABLE-CONDUIT, 2 COND. & 1 B.N., 8 AWG

SHEET NO.	CONT. STA.	CIRCUIT			
6	V	V-2	ALL		670
10	W	W-1	PART (W1-1 TO W1-2)		320
2	M	M-2	ALL		430
5	N	N-1	ALL		780
1	M	M-1	PART (M4-3 TO TRUSS #14)		80
1	L	L-2	PART (L2-5 TO TRUSS #15)		150

ITEM 901-74.07 L.F. TOTAL: 2430

1 IN. CABLE-CONDUIT, 2 COND. & 1 B.N., 6 AWG

SHEET NO.	CONT. STA.	CIRCUIT			
1,2	M	M-4	ALL		1770
3	O	O-2	PART (PB 02A TO TOWER 1)		270

ITEM 901-74.04 L.F. TOTAL: 2040

1 IN. CABLE-CONDUIT, 2 COND. & 1 B.N., 4 AWG

SHEET NO.	CONT. STA.	CIRCUIT			
6	V	V-1	PART (TOWER 4 TO SIGN 47)		530
1,2	L	L-2	ALL		2280
11	S	S-2	ALL		1460
5	N	N-2	(PB7 TO TOWER 5, PB6 TO TOWER 7)		340
7	N	N-3	ALL		2350

ITEM 901-74.02 L.F. TOTAL: 6360

1 1/4 IN. CABLE-CONDUIT, 2 COND & 1 BN, 1 AWG

SHEET NO.	CONT. STA.	CIRCUIT			
6,8	V	V-3	(PB V3B TO V3-10 & V3-11)		3020

ITEM 901-74.98 L.F. TOTAL: 3020

LIGHTING, PART 2

FINAL PLANS

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IBG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE I SHEET I

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM ITEM 202-20.10

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	DESCRIPTION
I	4	659+60		662+60	W.B.L.40	LT	TEMP. RETAIN WALL
I	4	661+00		---	RTE.40	LT	DI
I	4,5	661+50		676+35	RTE.40	LT	4885 S.Y. P.C.C.PAVEMENT
I	4	670+26		---	RTE.40	LT	DI
I	4	673+50		---	RTE.40	LT	DI
I	4	419+25		421+00	N.40 DR.	LT	268 L.F. DITCH LINER
I	4	420+25		---	N.40 DR.	LT	FES
I	4	675+25		677+00	RTE.40	LT	610 S.F. TEMP. RETAIN WALL
I	5	675+25		677+00	RTE.40	LT	190 L.F. PAVED DITCH
I	5	675+25		690+00	RTE.40	LT	328 L.F. DITCH LINER
I	6	687+77		689+35	RTE.40	LT	135 L.F. PAVED V DITCH
I	6	688+00		689+25	RTE.40	LT	605 S.F. TEMP. RETAIN WALL
I	6	688+10		690+15	W.B.L.40	LT	95 L.F. DITCH LINER
I	6	689+25		689+50	RTE.40	LT	55 L.F. DITCH LINER
I	6	689+35		27+38	RAMP 4	RT	50 L.F. DITCH LINER
I	6	26+90		0+44	BYPASS 8	RT	231 L.F. DITCH LINER
I	6	2+40		2+75	BYPASS 8	LT,RT	51 L.F. 12" CGMP, 2 FES
I	6	5+75		---	BYPASS 8	RT	50 L.F. DITCH LINER
I	6	6+00		6+25	BYPASS 8	RT	15 L.F. DITCH LINER
I	6	6+00		6+70	BYPASS 8	LT	70 L.F. DITCH LINER
I	6	6+10		---	BYPASS 8	LT,RT	48 L.F. 18" CGMP, 2 FES
I	6	6+35		---	BYPASS 8	LT	25 L.F. DITCH LINER
I	6,7	690+00		691+60	RTE.40	LT	160 L.F. PAVED V DITCH
I	7	693+50		695+60	RTE.40	LT	1047 S.F. TEMP. RETAIN WALL
I	7	693+50		695+60	RTE.40	LT	210 L.F. DITCH LINER
I	12	9+25		10+55	BYPASS 8	RT	130 L.F. DITCH LINER
I	12	9+50		---	BYPASS 8	LT,RT	53 L.F. 12" CGMP, 2 FES
I	13	400+45		401+95	I-270	RT	125 L.F. TYPE A GUARDRAIL, TES
I	11	379+27.5		379+52.5	I-270	RT	TES

Additional Removal Of Improvements - 1 Lump Sum Cost Item 501.08

Stage I, II & III ——— Final pay = 1 Lump Sum - Change Order #3

703-40-30	CLASS B-1 CONCRETE (BARRIER CURB)	5	CU YDS See Special Plan Sheet #82B
710-10.00	EPOXY COATED REINFORCING STEEL	1320	LBS. See Special Plan Sheet #82B
701-10.60	60 IN. PEDESTAL PILE	773	LIN FT See Special Plan Sheet #84.
206-50.99	TEMPORARY SHORING	5491	SQ FT (STAGE I ONLY)
601-10.00	FIELD LABORATORIES	1	LUMP SUM
615-10.00	OFFICE FOR ENGINEER		MONTHS
618-10.00	MOBILIZATION	1	LUMP SUM
602-20.00	STEEL R/W MARKER		EACH (BY MHTD FORCES)
602-30.00	CONCRETE R/W MARKER		EACH

LANDSCAPING ITEMS		STAGE: I	II	III	IV	V	VI	TOTALS	
201-10.00	CLEARING								ACRES
201-20.00	GRUBBING								ACRES
801-10.00	FERTILIZING								ACRES
802-10.00	TYPE 1 MULCH								ACRES
802-20.00	TYPE 2 MULCH								ACRES
802-30.00	TYPE 3 MULCH	0	10.3	2.7	2.0	26.5	0.0	41.5	ACRES - Total Final Pay Stages I Thru III
802-40.00	TYPE 4 MULCH								ACRES
802-50.00	TYPE 2 OR 3 MULCH								ACRES
CONT. 501.44	SODDING	—	21614	—	—	—	617	22181	SQ YD Total Final Pay Stages I Thru III
805-10.00	SEEDING	0	10.3	2.7	2.0	26.5	0.0	41.5	ACRES Total Final Pay Stages I Thru III

EARTHWORK ITEMS

STAGE	GRADING AREA	STATION	TO	STATION	ROADWAY	203-10.00 CLASS A EXCAVATION	203-55.00 EMBANKMENT IN PLACE	203-60.00 COMPACTING EMBANKMENT	210-10.05 6" SUBGRADE COMPACTING	212-10.00 SUBGRADING AND SHOULDERING CL I	203-70.75 COMPACT IN CUT
I											21.2
I		376+00		397+25.	I-270,RT	35114	---	153536	2.3	2.3	
I		400+18.21		1+25	I-270/RAMP 3				5.0	5.0	
I		13+00		18+00	RAMP 3				1.7	1.7	
I		24+26.96		26+00	RAMP 8						
									9.0	9.0	21.2
						CU YD	CU YD	CU YD	STATION	STATION	STATION

IR-20

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
DIST NO. 6	COUNTY ST LOUIS	

STAGE I SHEET 2

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

P.C.C. PAVEMENT

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	ITEM NO. 304-03.43 TYPE 3 AGGR BASE 4" THICK SQ YD	309-11.06 CONCRETE BASE (NON-REINF) 6" SQ YD	309-11.07 7" SQ YD	309-11.08 8" SQ YD	309-11.09 9" SQ YD	309-11.10 10" SQ YD	309-13.06 CONCRETE BASE WIDENING (NON-REINF) 6" SQ YD	309-13.07 7" SQ YD	309-13.08 8" SQ YD	309-13.09 9" SQ YD	309-13.10 10" SQ YD	502-11.06 CONCRETE PAVEMENT (NON-REINFORCED) 6" SQ YD	502-11.07 7" SQ YD	502-11.08 8" SQ YD	502-11.09 9" SQ YD	502-11.10 10" SQ YD	502-12.06 CONCRETE PAVEMENT REINFORCED 6" SQ YD	502-12.07 7" SQ YD	502-12.08 8" SQ YD	502-12.09 9" SQ YD	502-12.10 10" SQ YD	REMARKS
I	4,5	417+10		429+40	N.40 DR.	LT	1298													1298.3								N.40 DR, LT
I	4	659+60		661+50	RTE.40	LT	184													184.2								
I	4	659+60		661+50	RTE.40	LT	199																198.9						
I	4	661+50		669+99.24	W.B.L.40	LT	1056																930.7						
I	4,5	669+55		675+93.92	W.B.L.40	RT	532																425.9						
I	4,5	669+99.24		675+93.92	W.B.L.40	LT	693																610.0						
I	4,5	24+26.96		20+60	RAMP 8/RAMP 3	LT	335																243.7						
I	6,7	688+70.29		693+78.18	W.B.L.40	LT	613																533.0						
I	6,7	688+70.29		693+50	W.B.L.40	RT	400																319.8						
I	6,7	688+78.18		693+78.18	W.B.L.40	LT	389																388.9						VAR WIDTH (RECOVERY LANE)
I	7	693+78.18		695+73.42	W.B.L.40	LT	108																107.6						VAR WIDTH (RECOVERY LANE)
I	13,5	8+60		10+00	RAMP 3	LT	93																76.2						VAR WIDTH
I	4	661+50		668+31.76	RTE.40	LT	4659																				4545.0		
I	4,5	668+31.76		675+93.92	W.B.L.40	RT	3069																				3048.6		
I	4	668+31.76		669+99.24	W.B.L.40	LT	38																				38.3		VAR WIDTH
I	6,7	688+70.29		698+86.67	W.B.L.40	LT,RT	4155																				4065.5		
I	4,5,13	2+27.76		22+87.15	RAMP 3	LT,RT	6031																				5491.7		
I	5	24+26.96		26+99.14	RAMP 8	LT	332																				331.5		
I	6,12	25+50		32+74.31	RAMP 4	LT	1690																				1448.6		
I	11	376+00		378+50	I-270	LT	244																				198.6		
I	11,13	378+50		397+25.12	I-270	LT	2812																				2500.2		
I	13	6+57.11		9+01.78	RAMP 2	RT	314																				314.3		VAR WIDTH
I	13	0+00		2+27.76	RAMP 3	LT,RT	487																				443.5		
I	13	400+18.21		401+23.10	I-270	RT	157																				139.9		
					SUBTOTALS		29888													1482.5			3834.7					22565.7		
					TOTALS																									
					UNITS		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	

CONCRETE APPROACHES, CURBS ETC.

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	ITEM NO. 304-03.43 TYPE 3 AGGR BASE 4" THICK SQ YD	503-10.00 BRIDGE APPRO SLAB VAR W SQ YD	608-10.00 CONCRETE MEDIAN 4'WIDE	608-20.04 CONCRETE MEDIAN 6'WIDE	608-20.06 CONCRETE MEDIAN STRIP VAR W SQ YD	608-30.00 CONCRETE MEDIAN STRIP 4'WIDE	608-40.04 CONCRETE MEDIAN STRIP 6'WIDE	608-40.06 PAVED APPROACH 7"THICK	608-50.07 PAVED APPROACH 8"THICK	608-50.08 CONC SLOPE PROTECT'N 4"THICK	611-60.10 SQ YD	609-10.99 CONCRETE GUTTER TYPE A	609-10.42 CONCRETE GUTTER TYPE B	609-10.51 CURB & GUTTER TYPE A	609-10.52 CURB & GUTTER TYPE B	609-20.13 INT CURB TYPE M	609-10.10 CONCRETE CURB TYPE S 6"	609-10.11 CONCRETE CURB TYPE S 8"	609-20.11 INTEGRAL CURB TYPE A 6"	609-20.21 INTEGRAL CURB TYPE A 8"	609-20.12 INTEGRAL CURB TYPE B 6"	609-20.22 INTEGRAL CURB TYPE B 8"	BARRIER SIMILAR IN SHAPE & WEIGHT TO TYPE S617	617-10.00 CONC TRAFFIC BARRIER TYPE A	617-20.00 CONC TRAFFIC BARRIER TYPE B	617-10.99 MOD TYPE A	501.43 Cont. K-Joint 5483I						
I	4	417+30		428+19	N.40 DR.	LT													1095				231															
I	4	17+83.90		20+15	RAMP 3	LT																	272															
I	4,5	24+26.96		26+99.14	RAMP 8	LT																																	
I	5	675+93.92		676+13.92	W.B.L.40	LT,RT	117	115.6																														
I	6	688+50.29		688+70.29	W.B.L.40	LT,RT	117	115.6																														
I	4	417+14		431+51	N.40 DR.	LT																													1460				
I	4	661+55		662+33	RTE.40	LT																													78				
I	4	660+35.54		661+50	RTE.40	LT																														114			
—	—	24+36.16		33+12.27	RAMP 2	B																															676.1			
—	—	3+47		16+72	RAMP 5	B																															1325.0			
—	—	26+36.16		33+12.27	RAMP 2	18'RTB																															676.1			
—	—	24+55.71		26+34.61	RAMP 2	B																															178.9			
—	—	23+61.50		24+48.70	RAMP 4	B																															87.2			
—	—	23+61.50		24+21	RAMP 4	18'LTB																															59.7			
—	—	694+26		695+86	E.B.I-44	36'LTB																															1040			
					SUBTOTALS		234	231.2												1095				503												1538	114	3630			
					TOTALS																																				
					UNITS		SQ YD	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	SQ YD	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT

CONCRETE ITEMS

FINAL PLANS

(1/2)

20 of 31

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO	PROJECT NO. IR-IRB-270-5(259)	ROUTE I-270
DIST NO. 6	COUNTY ST LOUIS	

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STAGE I SHEET 3

BITUMINOUS PAVEMENT & BASE

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
I	6,15	11+55		10+52	BYPASS 7A	LT,RT	30'	
I	6	10+52		11+75	BYPASS 7A	LT,RT	VAR	
I	15	0+00		1+55	BYPASS 7A	RT	18'	
I	15	426+00		427+57	I-270	LT	VAR	
I	15	427+57		429+62	I-270	LT	18'	

Note: Final Pay for Asphalt Items for Stages I thru VI are listed on this sheet. See Material Receipts, C3214 for Total Tons.

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.25	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
	TYPE I OR 2 AGGR							TYPE 4 AGGR					FINAL PAY BITUM BASE Stages I thru VI		TYPE I-B MIX		TYPE B MIX		Final Pay TYPE C MIX Stages I thru VI		SPOT WEDGE	TYPE I-C MIX		TACK	PRIME		GRAVEL 'A' OR C.STONE
	3"	4"	5"	6"	7"	8"	9"	5"	6"	7"	8"	9"	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A			SANDING	'B'
																										PRIMER	
		3592													Not Used on Project		Not Used on Project				Not Used on Project					Not Used on Project	Not Used on Project
		287																									
		362																									
		142																									
		439																									
Asphalt Items ——— Stages I thru VI Total Tons													294.3	6321	—	—	—	—	48.8	9005	—	—	—	30	—	—	—
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

BITUMINOUS SHOULDERS

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
I	11	376+00		378+50	I-270	RT	9'3"-6'	V
I	11,13	378+50		397+25.12	I-270	RT	6'	V
I	13	400+18.21		401+23.10	I-270	RT	6'	V
I	13	0+00		1+30	RAMP 3	RT	6-10'	V
I	13,5	1+30		13+25	RAMP 3	RT	10'	V
I	5	13+25		14+00	RAMP 3	RT	10-13'3"	V
I	5,4	14+00		21+22	RAMP 3	RT	13'3"	V
I	5	9+25		10+75	RAMP 3	LT	4'	V
I	5	10+75		11+50	RAMP 3	LT	4'-7'-3"	V
I	5	11+50		14+25	RAMP 3	LT	7'3"	V
I	5	14+25		15+00	RAMP 3	LT	7'3"-4'	V
I	5	15+00		15+60	RAMP 3	LT	4'	V
I	5	15+60		15+76.12	RAMP 3	RT	VAR	V
I	5	24+26.96		24+88.46	RAMP 8	LT	4'	V
I	6,12	25+50		36+22.89	RAMP 4	LT	4'	V
I	12	15+88.83		18+19±	RAMP 1	RT	6'	V
I	6,12	25+50		32+74.31	RAMP 4	LT	6-10'	V
I	12	402+75.67		403+45	I-270	LT	10'	V
I	12	403+46		407+30	I-270			
SUBTOTALS								
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD
		4827											303														
													1853														
													104														
													158														
													2292														
													165														
													1385														
													800														
													411														
													62														
													702														
													8238														

Note: Final Pay for asphalt items see Stage I, B.A. Bit & Base

27 32

BITUM PAVT 1/3

FINAL PLANS

1544 24 TO 1

REV MAY 1, 89

FINAL PLANS

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-I06-270-5(659)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE I SHEET 4

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

EROSION CONTROL

ITEM NO	609-10.60	609-60.00	609-70.00	
	PAVED DITCH	DITCH LINER	ROCK LINING	REMARKS
		97.2		SHAPING
		146.7		
		50.0		
		276.7		
		31.5		
		58.3		
		57.6		
	13.9			
	550.6			
	54.3			
	567.9			
	400			
	56.3			
	106.1			
	35.1			
SUBTOTALS	1424.2	718.0	----	
UNITS	SQ YD	SQ YD	CU YD	

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	IN-SLOPE	AVG WIDTH	OUT-SLOPE	DEPTH	LIN FT	THICK
I	4	662+50	667+50	W.B.L.40	RT				0-0.5'		
I	4	667+50	674+10	W.B.L.40	RT	2:1	0'	2:1	0.5'		
I	4,5	674+10	677+00	W.B.L.40	RT	2:1	0'	2:1	0.5'		
I	6	686+84	21+67	RTE 40/RAMP 2	RT	3:1	2'	3:1	1.0'		
II	18	11+50	—	RAMP 2	LT	3:1	0'	3:1	1.0'		
III	27	20+45	—	RAMP 2	RT	3:1	0	3:1	1.0'		
III	27	21+50	—	RAMP 2	RT	3:1	2	3:1	1.0'		
I											
I		5+20	—	RAMP 2/RAMP 4	LT	3:1	VAR.	3:1	1.5		
I	6	687+75	692+50	W.B.L. 40	LT	3:1	4'	3:1	1.0		
I	6	26+90	27+37	RAMP 4	RT	3:1	4'	3:1	1.0		
I	6	687+70	693+76	RTE 40	RT	3:1	2'	6:1	1.0		
I	6	25+65	26+25	RAMP 4	RT	3:1	VAR	3:1	1.0		
I	6	28+30	29+05	RAMP 4	RT		VAR				
I	6	30+20	30+81	RAMP 4	LT	3:1	2'	3:1	1.0		
I	12	407+00	407+30	I-270	LT	3:1	2'	3:1	1.0		
I											
I											
I											
I											
I											
I											
I											
I											
I											

GUARDRAIL

ITEM NO	606-10.10	CONT NO 501.50	606-64.00	606-66.10	CONT NO 501.48	606-21.00	606-22.00	606-99.97	606-99.98
	GUARDRAIL		RELOC EXIST G.R.	BREAK-AWAY END ANCHOR	GUARDRAIL		Bridge Anchor SECTIONS	ET2000 SPARE PARTS PKG	ET2000 TERM SECTION
	TYPE A	TYPE C			TYPE-E		SAFETY B		
I 6	688+60	691+35	WB 40	RT	200				
I 6	688+60	676+00	WB 40	LT	200				
I 5	673+56	676+00	WB 40	RT	212.5				
I 4,5	669+50	676+00	WB 40	LT	212.5				
I 4,5	669+31	14+00	Rte 40 & Rp #3	LT	212.5				
I 5	11+50	14+18	Rp #3	RT	212.5				
I 13	399+89	14+16	I-270 & Rp #3	RT	37.5				
I 5	26+42	26+86	Rp #6	LT	200				
I 4	662+31	664+31	WB 40	LT		37.5			
I 11	332+25	332+37	I-270	RT		12.5			
IV 42	8+02	8+145	Rp #4	LT		1050			
SUBTOTALS:					3125	1050	6	6	6
UNITS	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	LUMPSUM	EACH

GUARDRAIL

I	13	387+77	388+14.2	I-270	RT	37.5	
IV	13	401+03.40	0.00	Rp #3 & Rp #4	RT	37.5	
IV	42	417.50	—	Rp #5	RT	75	
TOTALS:						150	
UNITS						LIN FT	

(TEMP) EDGE DROP-OFF TREATMENT

ITEM NO	616-10.80
I thru VI	6149 Final pay
TOTALS:	6149 Final pay Stage I thru VI
	LIN FT

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE
I thru VI		See Documentation Records for location!	7,11,26		

TEMPORARY PAVEMENT MARKING

NOTE: FOR DOUBLE SOLID LINES (DSY OR 8"SW GORE), USE DOUBLE THE 4" STRIPE LENGTH. EXAMPLE: FOR 50'OF 8"SWP, ENTER 2X50' UNDER THE 4"SWP COLUMN.

ITEM NO	620-53.01	620-53.02	620-53.03	620-53.04	620-70.05	620-60.00	620-60.01	620-60.02	620-60.03	620-64.31	620-64.32	620-70.00
	TAPE STRIPE				REMOVE TAPE	PAINT STRIPES						REMOVE PAINT
	SOLID WHITE	INTRMIT WHITE	SOLID YELLOW	INTRMIT YELLOW	(R)	SOLID WHITE	SOLID YELLOW	INTRMIT WHITE	INTRMIT YELLOW	SOLID WHITE ON C.I.B.	SOLID YELLOW ON C.I.B.	(R)
	4"SWT	4"IWT	4"SYT	4"IYT		4"SWP	4"SYP	4"IWP	4"IYP	13"SWB	13"SYB	
Stage I thru V FINALPAY TOTALS	329	51.7	130.6	—	900	769.7	549.5	130.6	—	130.7	22.1	446
UNITS	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE
I thru VI	—	See Documentation Records			
I thru VI	—	See Documentation Records			
I thru VI	—	See Documentation Records			
I	3,4	657+50	662+00	RTE. 40	LT
I	5	675+00	678+00	RTE. 40	LT
I	6	682+60	690+20	RTE. 40	RT

MISC. ITEMS

TOTALS	UNIT	ITEM NO	DESCRIPTION
0	Ln Ft	617.50.10	TEMP TRAFFIC BARRIER (New Load)
15960	Ln Ft	617.50.10	RELOCATING TEMP TRAFFIC BARRIER
0	Ln Ft	617.50.30	TYPE B TEMPORARY TRAFFIC BARRIER (CONCRETE USED)
1460	LIN FT	607.99.10	HEADLIGHT GLARE FENCE
1	Lump Sum	707-10.00	CONDUIT SYSTEM ON STRUCTURE
5795	Lin Ft	617-60.00	STATE PLANS-CONC. TRAFFIC BARRIER
1	Each	616-99.00	IMPACT ATTEN. (HEX FORM & BAY)
1	Each	CONT 501.56	HEX FORM CONVERSION KIT

Note: Final Pay totals for temporary pavement striping, Stages I thru VI See documentation records for locations.

22-23

DITCHES, PAV'T MARKS, GUARDRAIL, MISC. 3/4

FINAL PLANS

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO	PROJECT NO. IR-IRS-270-5(259	ROUTE
DIST NO. 6	COUNTY ST LOUIS	I-270

STAGE I SHEET 5

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

P I P E

*(CL.3 EXC. FOR FEB'S INCLUDED IN QUANTITY FOR PIPE)

STAGE	PLAN SHEET	FROM STATION	FROM ROADWAY	FROM SIDE	TO STATION	TO ROADWAY	TO SIDE	CULVERT SHEET STR	CULVERT SHEET TO STR	ITEM NO 206-30.00 CLASS 3 EXCAVATION *	725-10.12 12"	725-10.15 15"	725-10.18 18"	725-10.24 24"	725-10.30 30"	725-10.36 36"
											CORRUGATED METAL PIPE					
I	15	1+94	RAMP 5	RT	3+78	RAMP 5	RT	I-1F	I-3M	293				26		
I	15	3+63.30	RAMP 5	RT	3+78	RAMP 5	RT	I-2M	I-3M	23						
I	15	3+78	RAMP 5	RT	4+67	RAMP 5	LT	I-3M	I-4F	54						
I	15	428+65	I-270	3'RT	427+64	I-270	LT	I-5M	I-6F	36						152
I	6	4+22	BYPASS 7A	RT	5+36	BYPASS 7A	LT	I-7F	I-8F	572						
I	6	11+96	RAMP 8	RT	11+00	RAMP 8	LT	I-9F	I-10F	182						
I	6	9+00	BYPASS 7A	RT	----		LT	I-11F	I-12F	13	44					
I	6	4+10	BYPASS 5	LT	----		LT	I-13P	I-14S	395						
I	6	4+10	BYPASS 5	LT	----		LT	I-14S	I-15P	#:0						
I	6	24+50	RAMP 2	LT	22+90	RAMP 2	LT	I-16P	I-17S	254						
I		30+50	RAMP 4	RT	----		LT	I-21F	I-22F	35						
I	4	420+25	N.40 DR.	LT	----		RT			----						
I	4	670+30	W.B.L.40	RT	----					----						
I	7	691+57	RTE.40	LT	----					----						
I	6	3+50	BYPASS 7	LT	10+42	BYPASS 7A	LT	EX.PIPE	I-19F	0	0					
I	6	4+10	BYPASS 5	LT	22+90	RAMP 2	LT	I-14S	I-17S	352				162		
I	4	424+88	N.40 DR.	LT	425+14	N.40 DR.	LT	I-1SE	I-5-5E	45						
I	4	667+00	RTE.40	LT	----					----						
I	15	428+65	I-270	LT	----					----						
I	6	6+95	BYPASS 5	LT	----		RT			----						
I	15	3+78	RAMP5	RT	3+75	RAMP5	RT	I-3M	II-1A	1						
SUBTOTALS										2255	44			188		152
										SEE NEXT SHEET						
UNITS										CU YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT

726-13.12 12"	726-13.15 15"	726-13.18 18"	726-13.24 24"	726-13.30 30"	726-13.36 36"	726-13.42 42"	726-13.48 48"
CLASS III REINF CONCRETE PIPE							
	180			42			
			26			42	
							55
							*0
		72					
		75					
		26					
4							
4	180	173	26	42		42	55
LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT

726-99.18 18"	726-99.24 24"	726-99.30 30"	726-99.36 36"	726-99.42 42"	726-99.48 48"	611-99.91 GROUT FILL IN DRAIN STRUCT	REMARKS
JACKED CL III RCP (GASKET TYPE)							
		73					Extended Pipe on Individual Sht
	110						
				92			
					80		* See Book III Page 19
75							
						2.4	(12" PIPE)
						2.3	(12" PIPE)
						2.2	(12" PIPE)
							Pipe Info on Previous Sheet
							Addition C.O.'s
						1.5	(12" PIPE)
						14.5	(24" PIPE)
						41.0	(30" PIPE)
75	110	73		92	80	62.9	
LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	CU YD	

83-34

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO.	ROUTE
6	IR-IR2-270-5(259)	I-270
	COUNTY ST LOUIS	

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STAGE I SHEET 6

DRAINAGE STRUCTURES

*(CL. 3 EXC. INCLUDED ON PIPE 2B SHEET)

STAGE	PLAN SHEET	CULVERT SHEET	STATION	ROADWAY	SIDE	STRUCT	TYPE	DESIGN 'D'	CLASS 3 EXCAVATION
I	15		1+94	RAMP 5	23'RT	I-1	F	---	*
I	15		3+63.3	RAMP 5	46.4'RT	I-2	M	6'6"	12
I	15		3+78	RAMP 5	20'RT	I-3	M	6'6"	15
I	15		4+67	RAMP 5	39'LT	I-4	F	---	*
I	15		428+65	I-270	3'RT	I-5	EXIST.M	---	---
I	15		427+64	I-270	91'LT	I-6	F	---	*
I	6		4+22	BYPASS 7A	40'RT	I-7	F	---	*
I	6		5+36	BYPASS 7A	57'LT	I-8	F	---	*
I	6		11+96	RAMP 8	47'RT	I-9	F	---	*
I	6		11+00	RAMP 8	45'LT	I-10	F	---	*
I	6		9+00	BYPASS 7A	12'RT	I-11	F	---	*
I	6		9+00	BYPASS 7A	31'LT	I-12	F	---	*
I	6		4+10	BYPASS 5	111'LT	I-13	P	---	*
I	6		4+10	BYPASS 5	54.5'LT	I-14	S-I	5'0"	40
I	6		4+10	BYPASS 5	59'LT	I-15	P	---	*
I	6		24+50	RAMP 2	40'LT	I-16	P	---	*
I	6		22+90	RAMP 2	40'LT	I-17	S-I	3'0"	6
I	4		424+88	N.40 DR.	25.5'LT	5-5	E	11'3"	9
I	4		428+17.35	N.40 DR.	25.5'LT	I-18	C	---	0
I			10+42	BYPASS 7A	28'LT	I-19	F	---	0
			425+14	N.40 DR.	25.5 LT	5-5S	E	10'6"	15
I			30+50	RAMP 4	27'RT	I-21	F	---	*
I			30+50	RAMP 4	48'LT	I-22	F	---	*

	206-30.00	731-00.48	731-00.60	731-00.72	731-99.84	614-30.10	614-30.11	614-30.12	614-30.14	731-10.22	731-10.32	731-10.33	731-10.42	731-10.52	731-10.53	614-10.10
		PRECAST CONCRETE MANHOLE				MANHOLE FRAME & COVER				PRECAST CONCRETE DROP INLET PAY DEPTH						GRATES AND BEARING PLATES
	CLASS 3 EXCAVATION	48"	60"	72"	84"	TYPE 1-A	TYPE 1-B	TYPE 2	TYPE 4	2X2	3X2	3X3	4X2	5X2	5X3	
SUBTOTALS (THIS SHEET)	97	7	7						2			22		3	5	850
SUBTOTALS (PIPE SHEET)	2255															
	2352															
UNITS	CU YD	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	POUND

PIPE OPENINGS NO.--SIZE	732-00.12	732-00.15	732-00.18	732-00.24	732-00.30	732-00.36	732-00.42	732-00.48
			FLARED (M = METAL)	END	SECTION			
1-15"		1						
1-15,1-18,1-24"								
1EA:12,15,24,30"								
1-30"					1			
1-24"	(FILL EXIST. 24" OPENING--NO DIRECT PAY)							
1-24"				1				
1-36"						1M		
1-36"						1M		
1-42"							1	
1-42"							1	
1-12"	1M							
1-12"	1M							
1-48"	(NO F.E.S., END OF PIPE LOCATION ONLY)							
1-24,2-48"								
1-48"	(NO F.E.S., END OF PIPE LOCATION ONLY)							
1-18"	(NO F.E.S., END OF PIPE LOCATION ONLY)							
1-18,1-24"								
2-18"	(TYPE A COVER)							
1-12"								
	(RELOCATED FROM STA. 3+50-30'LT. BYPASS 7A--NO DIRECT PAY)							
	(RELOCATE 24"F.E.S.--NO DIRECT PAY)							
1-18"			1					
1-18"			1					
	2	1	2	1	1	2	2	
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH

*Not Installed See Book "12 B" 7

*See Book "11 Page "19

FINAL PLANS DRAINAGE STRUCTURES 2/6

24 35

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST LOUIS	

STAGE II SHEET 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM ITEM 202-20.10

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE		DESCRIPTION
II	17	658+60		670+50	S.FORTY DR.	LT		1190 L.F. TEMP.RET.WALL
II	17	660+50		670+50	RTE.40	RT		100 L.F. DIT LINER
II	17	672+75		-	RTE.40	RT		DI, 350' 30" CGMP
II	18	14+00		-	RAMP 3	LT		160 L.F. 36" CGMP, B COLLAR
II	18	2+45		-	BYPASS 4	LT,RT		55 L.F. 18" CGMP, 2 FES
II	18	3+60		-	BYPASS 4	LT,RT		168 L.F. 48"CGMP, B COLLAR
II	18	8+50		9+75	BYPASS 14	RT		125 L.F. DIT LINER
II	18	10+50		11+08	BYPASS 14	LT		78 L.F. DIT LINER
II	18	677+80		-	RTE.40	LT		DI
II	18	677+80		680+00	RTE.40	LT		258 L.F. 30" RCP
II	18	680+00		-	RTE.40	LT		DI
II	19	686+90		687+25	RTE.40	LT		60 L.F. DIT LINER
II	19,25	0+00		12+10	RAMP 7	LT,RT		2230 S.Y. CONC PAVT
II	19	6+85		-	RAMP 7	LT		213 S.Y. PAVED DITCH
II	19	6+85		-	RAMP 7	LT,RT		36 L.F. 24"RCP, 2 FES
II	19	11+25		-	RAMP 7	RT		DI
II	19	11+25		-	RAMP 7	LT,RT		120 L.F. 42" P
II	19,20	7+00		9+43	RCE	LT		3 CONC ISLANDS, 1 LIGHT (MO. BAPT. PARKING LOT)
II	19	12+75		16+25	RAMP 5	RT		355 L.F. PAVED V DITCH
II	19,20	15+60		16+60	RAMP 5	RT		110 L.F. PAVED V DITCH
II	19,25	428+75		691+65	I-270/RTE.40	LT/RT		1295 L.F. FENCE
II	20	695+35		697+63	RTE.40	RT		212.5 L.F. GUARDRAIL, 1 TES
II	20	4+75		6+45.45	RAMP 9	RT		170.5 L.F. TEMP. RET. WALL
II	20	4+75		6+45.45	RAMP 9	LT		170 L.F. PAVED V DITCH
II	25	5+75		-	RAMP 7	RT		25 L.F. 18"P, 1 FES

206-50.99	TEMPORARY SHORING	9001	SQ FT (STAGE II ONLY)
601-10.00	FIELD LABORATORIES		LUMP SUM
615-10.00	OFFICE FOR ENGINEER		MONTHS
618-10.00	MOBILIZATION		LUMP SUM
602-20.00	STEEL R/W MARKER		EACH (BY MHTD FORCES)
602-30.00	CONCRETE R/W MARKER		EACH

LANDSCAPING ITEMS		STAGE: I	II	III	IV	TOTALS	
201-10.00	CLEARING						ACRES
201-20.00	GRUBBING						ACRES
801-10.00	FERTILIZING						ACRES
802-10.00	TYPE 1 MULCH						ACRES
802-20.00	TYPE 2 MULCH						ACRES
802-30.00	TYPE 3 MULCH		10.3			10.3	ACRES
802-40.00	TYPE 4 MULCH						ACRES
802-50.00	TYPE 2 OR 3 MULCH						ACRES
CONT. 501.44	SODDING		2164			2164	SQ YD
805-10.00	SEEDING		10.3			10.3	ACRES

EARTHWORK ITEMS

STAGE	MARK	STATION	TO	STATION	ROADWAY	SIDE	203-10.00 CLASS A EXCAVATION	203-55.00 EMBANKMENT IN PLACE	203-60.00 COMPACTING EMBANKMENT	203-70.75 COMPACT IN CUT
II							109791	16902	7687	
II	-	0+00		16+70	Ramp "5"	Left				16.7
II	-	9+00		15+80	Ramp #2	Left				6.4
II	-	26+00		31+00	Ramp #2	Lt & Rt				5.0
									Total =	28.1
							CU YD	CU YD	CU YD	STATION

REMOVALS, EARTH, ETC (17/1)

FINAL PLANS

25-26

1544 24 TO 1

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE II SHEET 2

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FINAL PLANS

P.C.C. PAVEMENT

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	304-03.43 TYPE 3 AGGR BASE 4" THICK	309-11.06 CONCRETE BASE (NON-REINF) 6"	309-11.07 7"	309-11.08 8"	309-11.09 9"	309-11.10 10"	309-13.06 CONCRETE BASE WIDENING (NON-REINF) 6"	309-13.07 7"	309-13.08 8"	309-13.09 9"	309-13.10 10"	502-11.06 CONCRETE PAVEMENT (NON-REINFORCED) 6"	502-11.07 7"	502-11.08 8"	502-11.09 9"	502-11.10 10"	502-12.06 CONCRETE PAVEMENT REINFORCED 6"	502-12.07 7"	502-12.08 8"	502-12.09 9"	502-12.10 10"	REMARKS
II	19-20	4+69.60	11+40.84	RCE	LT,RT	2163												1939.1									
II	17	658+60	416+48.71	S.40 DR.	LT	2014													1789.9								
II	17	658+60	664+25.24	S.40 DR.	LT	592													591.6								
II	17	664+33.58	665+80.19	S.40 DR	LT	77													76.5								
II	17	658+60	664+25.24	RTE.40	RT	220															219.8						
II	17	664+33.58	667+66.14	RTE 40	RT	348															348.1						
II	17	0+00	5+75.08	RAMP 7	RT	724															724.3						
II	17	659+50	667+66.14	RTE.40.	RT	1224																				1088.2	
II	18	0+00	3+19.85	RAMP 7	LT	480																				426.5	
II	18,24	3+19.85	5+75.08	RAMP 7	LT	723																				680.4	
II	18,24	18+87	24+26.96	RAMP 8	LT	1620																				1439.9	
II	19,20	9+01.78	15+40	RAMP 2	LT	1915																				1701.9	
II	19,20	432+45.33	432+64	I-270	LT	28																				24.9	
II	19	0+00	2+27.26	RAMP 5	LT	543																				505.0	
II	19,25	2+27.26	2+67.26	RAMP5	LT	124																				111.1	
II	19,25	2+67.26	16+72.01	RAMP5	LT	4214																				3746.0	
II	25	6+33.73	8+77.75	RAMP 8	LT	447																				406.7	
II	25	21+55.71	25+17.21	RAMP2	LT	—																				164.0	
II	18	14+20	15+40.00	RAMP 2	LT	92															84.3						
II	18	9+01.78	10+01.78	RAMP 2	RT	65															44.4						
II	17	410+27.16	416+48.71	S.40 DR.	LT	530													529.7								
II	17	658+40	658+60	S.40 DR.	LT	47													46.7								
II	17	25+17.21	26+36.16	RAMP2	LT	254																				237.9	
II	18	26+36.16	33+12.27	RAMP 2	LT,RT	2930																				2704.4	
					SUBTOTALS	21374												1939.1	3034.4		1420.9 CONT. ON STAGE III/2					13236.9	
					TOTALS	↓															↓						
					UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	

CONCRETE APPROACHES, CURBS ETC.

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	304-03.43 TYPE 3 AGGR BASE 4" THICK	503-10.00 BRIDGE APPRO SLAB	608-10.00 CONCRETE MEDIAN 6"THICK VAR W SQ YD	608-20.04 CONCRETE MEDIAN 4'WIDE	608-20.06 CONCRETE MEDIAN 6'WIDE	608-30.00 CONCRETE MEDIAN STRIP VAR W SQ YD	608-40.04 CONCRETE MEDIAN STRIP 4'WIDE	608-40.06 CONCRETE MEDIAN STRIP 6'WIDE	608-50.07 PAVED APPROACH 7"THICK	608-50.08 PAVED APPROACH 8"THICK	611-60.10 CONC SLOPE PROTECT'N 4"THICK *	609-10.99 CONCRETE GUTTER TYPE A	609-10.42 CONCRETE GUTTER TYPE B	609-10.51 CURB & GUTTER TYPE A	609-10.52 CURB & GUTTER TYPE B	609-20.13 INT CURB TYPE M	609-10.10 CONCRETE CURB TYPE S 6"	609-10.11 CONCRETE CURB TYPE S 8"	609-20.11 INTEGRAL CURB TYPE A 6"	609-20.21 INTEGRAL CURB TYPE A 8"	609-20.12 INTEGRAL CURB TYPE B 6"	609-20.22 INTEGRAL CURB TYPE B 8"	BARRIER LENGTH SHOWN INCLUDES HEIGHT TRANS OF THIS AMOUNT	617-10.00 CONC TRAFFIC BARRIER TYPE A	617-20.00 CONC TRAFFIC BARRIER TYPE B	617-20.99 CONC TRAFFIC BARRIER MOD TYPE B				
II	19	13+00	28+60	RAMP 5/RAMP 2	RT/RT													602.0																	
II	19,20	12+90	6+47.31	RAMP 5/RAMP9	RT/RT													681.0																	
II	20	29+23	34+18.88	RAMP 2	LT													496.0																	
II	18	14+66	15+36	RAMP 2	LT													69.0																	
II	18	14+00	14+25	RAMP 2	LT												31																		
II	18	23+88	24+24	RAMP 8	LT												36																		
II	18	14+30	14+60	RAMP 2	LT																30.0														
II	18	28+71	29+09	RAMP 2	LT																38.0														
II	19,25	1+95	12+91	RAMP 5	RT																1096.0														
II	17	658+60	664+25.24	RTE.40	RT																									565					
II	17	664+33.58	416+48.71	S.40 DR.	LT																									808					
II	19,20	12+91	28+62	RAMP 5/RAMP 2	RT/RT																									615					
II	20	6+36	10+22	RAMP 9	RT																									379					
II	19,20	4+69.60	10+98	RCE	RT																			648.0											
II		428+00		EB40	LT													20.0																	
II	20	29+23	34+71.3	RAMP2	LT																									554					
II	19,20	14+67	15+40	RAMP2	LT																									73					
					SUBTOTALS											*SEE 2B SH II/2 FOR TOTALS	67	1868.0			1164.0			648.0						2994					
					TOTALS																							---							
					UNITS	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	SQ YD	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	---	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT

CONCRETE ITEMS II/2

FINAL PLANS

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
DIST NO. 6	PROJECT NO. IR-I26-270-5(259)	ROUTE I-270
	COUNTY ST LOUIS	

STAGE II SHEET 3

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS PAVEMENT & BASE

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
II	18	682+10		20+00	RTE.40/RAMP 8	LT/LT	26	TEMP.CONN
II	19	685+50		25+80	RTE.40/RAMP 4	LT/LT	26	TEMP.CONN
II	19,20	6+90		11+40.84	RCE	LT	VAR	PARK LOT
								SUBTOTALS
								TOTALS
								UNITS

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93
	TYPE I OR 2 AGGR						
	3"	4"	5"	6"	7"	8"	9"
		508.1 ✓					
		340.1 ✓					
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD

ITEM NO	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93
	TYPE 4 AGGR				
	5"	6"	7"	8"	9"
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD

ITEM NO	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.25	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
	BITUM BASE		TYPE I-B MIX		TYPE B MIX		TYPE C MIX		SPOT WEDGE	TYPE I-C MIX		TACK	PRIME	SANDING	GRAVEL 'A' OR C.STONE
	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A			PRIMER	'B'
UNITS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

Note: Final pay for Asphalt Items see Stage I, Bit. Base & Base

BITUMINOUS SHOULDERS

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
II	18	9+01.78 ✓		10+01.78 ✓	RAMP 2	LT	4'	V
II	18	10+01.78 ✓		14+20 ✓	RAMP 2	LT	4'	V
II	18	9+01.78		10+01.78	RAMP 2	RT	4'	V
II	18	10+01.78		12+50	RAMP 2	RT	4'	V
II	18	12+50		14+40	RAMP 2	RT	4'	V
II	18	14+40		15+55.38	RAMP 2	RT	4'	V
II	18	20+00 ✓		20+45 ✓	RAMP 8	LT	7'3"	V
II	18	20+45 ✓		21+20 ✓	RAMP 8	LT	7'3"	V
II	18	21+20 ✓		23+85 ✓	RAMP 8	LT	7'3"	V
II	18	20+87.5		23+12.5	RAMP 8	RT	7'3"	V
II	18	23+12.5		24+26.96	RAMP 8	RT	4'	V
								SUBTOTALS
								TOTALS
								UNITS

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93
	TYPE I OR 2 AGGR						
	3"	4"	5"	6"	7"	8"	9"
		848.2 ✓					
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD

ITEM NO	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93
	TYPE 4 AGGR				
	5"	6"	7"	8"	9"
			130.4 ✓		
			65.0 ✓		
			37.3 ✓		
			75.7 ✓		
			315.2		
			1213.6 ✓		
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD

ITEM NO	301-10.11	301-20.00	403-10.11	403-10.25	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
	BITUM BASE		TYPE B MIX		TYPE C MIX		SPOT WEDGE	TYPE I-C MIX		TACK	PRIME	SANDING	GRAVEL 'A' OR C.STONE
	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A			PRIMER	'B'
UNITS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

Note: Final pay for asphalt items see Stage I, Bit. Base & Base

BITUM PAVT

FINAL PLANS

7-38

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO.
MO	PROJECT NO. IR-IRG-270-5(259)	2B
DIST NO.		ROUTE
6	COUNTY ST LOUIS	I-270

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STAGE II SHEET 4

EROSION CONTROL

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	IN-SLOPE	AVG WIDTH	OUT-SLOPE	DEPTH	LIN FT	THICK	609-10.60 PAVED DITCH	609-60.00 DITCH LINER	609-70.00 ROCK LINING	REMARKS
II															
II	18	11+55	---	RAMP 2	RT	3:1	V	3:1	1'			116.2			
II	18	11+25	11+67	RAMP 2	LT	6:1	2'	3:1	1'			93.9			
II	18	18+69	19+40	RAMP8	RT	3:1	2'	3:1	1'			61.5			
II	18	19+40	21+30	RAMP8	RT	3:1	2'	3:1	1'			186.6			TO DETENTION POND
II	18	21+30	21+84	RAMP8	RT	3:1	2'	3:1	1'			54.0			
II	18	679+90	680+40	RTE 40	LT	3:1	VAR	3:1	1.5'			81.9			
II	18	22+36	23+70	RAMP8	LT	3:1	VAR	3:1	1'			120.9			
II	18	21+76	22+20	RAMP8	LT	3:1	VAR	3:1	1'			37.4			2-24F TO 2-32S
II	18	679+90	22+22	RTE40/RAMP8	LT/LT	3:1	VAR	3:1	1'			614.7			
											SUBTOTALS	1367.1			
											PREV. SUB TOTAL	1424.2			
											TOTALS	2791.3			
											UNITS	SQ YD	SQ YD	CU YD	

GUARDRAIL

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	606-10.10 GUARDRAIL TYPE A	606-10.20 TYPE B	606-10.30 TYPE C	606-10.40 TYPE D	606-20.00	606-23.00 TRANSITION SECTIONS (TRANS SECT)	606-22.00 BRIDGE ANCHOR SECTIONS → SAFETY B	606-66.10 BREAK-AWAY END ANCHOR	606-99.98 ET2000 → TERM SECTION
II	18	19+00	22+38	RAMP 8	RT	338							1	
II	18	21+20	24+01	RAMP 8	LT	225							1	1
II	17	C.O. #7 4+75	6+84	RAMP7	RT	188						1		
II	13	C.O. #10 5+67	6+70	RAMP3	RT						2		1	1
II	20	C.O. #12 32+87	33+37	RAMP2	RT									1
II	25	C.O. #12 5+12	6+49.5	RAMP5	Lt & Rt								2	2
					SUBTOTALS:	751					2	1	5	5
					TOTALS:									
					UNITS	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH

EDGE DROP-OFF TREATMENT

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	616-10.80
II	17	659+40	661+50	RTE.40	RT	210
					TOTAL:	210
						LIN FT

TEMPORARY PAVEMENT MARKING

NOTE: FOR DOUBLE SOLID LINES (DSY OR 8"SW GORE), USE DOUBLE THE 4" STRIPE LENGTH. EXAMPLE: FOR 50' OF 8"SWP, ENTER 2X50' UNDER THE 4"SWP COLUMN.

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	620-53.01 TAPE STRIPES SOLID WHITE 4"SWT	620-53.02 INTRMIT WHITE 4"IWT	620-53.03 SOLID YELLOW 4"SYT	620-53.04 INTRMIT YELLOW 4"IYT	620-70.05 REMOVE TAPE (R)	620-60.00 PAINT STRIPES SOLID WHITE 4"SWP	620-60.01 SOLID YELLOW 4"SYP	620-60.02 INTRMIT WHITE 4"IWP	620-60.03 INTRMIT YELLOW 4"IYP	620-64.31 SOLID WHITE ON C.T.B. 13"SWB	620-64.32 SOLID YELLOW ON C.T.B. 13"SYB	620-70.00 REMOVE PAINT (R)
					SUBTOTALS												
					TOTALS												
					UNITS	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT

Note: For final pay totals for temporary Pavement Striping See Stage I

MISC. ITEMS

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	TOTALS	UNIT	ITEM NO	DESCRIPTION
II	19,20	12+90	10+21.5	RAMP 5/RAMP 9	RT/RT	940	LIN FT	607-10.12	60" TYPE A C.L. FENCE
I thru VI	See Documentation Records *Also listed with Const Sign & Sheet					8	EACH	612-20.30	RELOC. IMPACT ATTEN.
I thru VI	See Documentation Records *					60	EACH	612-20.20	REPLACE SAND BARREL
I	See Documentation Records *		---			4	EACH	612-20.11	IMPACT ATTEN. (11 BBL)

DITCHES, PAV'T MARKS, G.R., MISC. II/4

FINAL PLANS

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REV MAY 1, 89

FINAL PLANS

STATE	JOB NO. J6I0647I	SHEET NO.
MO	PROJECT NO. IR-IRG-270-5(259)	2B
DIST NO. 6	COUNTY ST LOUIS	ROUTE I-270

STAGE II SHEET 5

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

P I P E

*(CL.3 EXC. FOR FES'S INCLUDED IN QUANTITY FOR PIPE)

STAGE	PLAN SHEET	FROM STATION	FROM ROADWAY	FROM SIDE	TO STATION	TO ROADWAY	TO SIDE	STR	TO STR	CULVERT SHEET
II	25	3+75	RAMP 5	RT	3+78	RAMP 5	RT	II-1A	II-2M	
II	25	426+15	I-270	LT	6+90	RAMP 5	RT	II-3M	II-4M	
II	19,25	6+90	RAMP 5	RT	7+69	RAMP 5	LT	II-4M	II-5F	
II	19	12+00	RAMP 5	RT	12+49	RAMP 5	RT	II-6A	II-7A	
II	19	12+49	RAMP 5	RT	12+79	RAMP 5	RT	II-7A	II-13M	
II	19	12+58	RAMP 5	RT	12+79	RAMP 5	RT	II-8D	II-9M	
II	19	12+79	RAMP 5	RT			RT	II-9M	II-13M	
II	19	13+01	RAMP 5	RT	12+79	RAMP 5	RT	II-10E	II-9M	
II	19	13+05	RAMP 5	RT	12+90	RAMP 5	RT	II-11B	II-12E	
II	19	12+90	RAMP 5	RT	12+79	RAMP 5	RT	II-12E	II-13M	
II	18	18+45	RAMP 8	LT	18+92	RAMP 8	LT	II-14F	I-15F	
II	18	680+00	RTE.40	LT			LT	II-16D	II-17F	
II	18	22+22	RAMP 8	LT	22+00.67	RAMP 8	RT	II-18F	II-19F	
II	18	14+00	RAMP 2	LT	13+83.36	RAMP 2	LT	2-27S	2-29M	
II	18	11+55	RAMP 2	LT			RT	2-32S	2-33F	
II	18	22+38.49	RAMP 8	RT	22+78.01	RAMP 8	RT	2-34F	2-35S	
II	19	25+23.5	RAMP 4	LT	25+59	RAMP 8	LT	II-20F	II-21F	
II	19	12+79	RAMP 5	RT	12+79	RAMP 5	LT	II-13M	II-22M	
II	17	662+57	S.40 DR.	LT				EX.PIPE		
II	17	5+58.43	RAMP 7	RT			LT	II-23E	II-1F	

ITEM NO / STR	206-30.00 CLASS 3 EXCAVATION *	725-10.12 CORRUGATED METAL PIPE 12"	725-10.15 15"	725-10.18 18"	725-10.24 24"	725-10.30 30"	725-10.36 36"			726-13.12 CLASS III REINF CONCRETE PIPE 12"	726-13.15 15"	726-13.18 18"	726-13.24 24"	726-13.30 30"	726-13.36 36"	726-13.42 42"	726-13.48 48"			726-23.18 18"	726-99.18 CL III RCP (GASKET TYPE) SPCL JACKED 18"	726-23.24 24"	726-23.36 36"	726-23.48 48"	611-99.91 GROUT FILL IN DRAIN STRUCT	REMARKS	
II-1A – II-2M	2									5																See Book 111, P.33 for change	
II-3M – II-4M	96				83																						
II-4M – II-5F	84												94														
II-6A – II-7A	19									47																	
II-7A – II-13M	17									27																	
II-8D – II-9M	465															80											
II-9M – II-13M	71															26											
II-10E – II-9M	16	24																									
II-11B – II-12E	4									14																	
II-12E – II-13M	3									8																	
II-14F – I-15F	70	52																									
II-16D – II-17F	0	30																									
II-18F – II-19F	230															124											
2-27S – 2-29M	8											10															
2-32S – 2-33F	122												93														
2-34F – 2-35S	44											44															
II-20F – II-21F	0				38												41										
II-13M – II-22M	73																								1.1	(15" PIPE)	
EX.PIPE																											
II-23E – II-1F	28									52																	
SUBTOTALS	1352	106			121'					153		54	187			230	41								1.1		
																									63.9	STAGE	I
SEE NEXT SHEET								---	---									---	---						Final Pay Total 65.0	-----	-----
UNITS	CU YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT			LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT			LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	CU YD		

PIPE II/5

FINAL PLANS

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1544 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

DRAINAGE STRUCTURES

*(CL.3 EXC.FOR FES'S INCLUDED ON PIPE 2B SHEET)

STAGE	PLAN SHEET	CULVERT SHEET	STATION	ROADWAY	SIDE	STRUCT	TYPE	DESIGN 'D'	206-30.00 CLASS 3 EXCAVATION	731-00.48 PRECAST CONCRETE MANHOLE 48"	731-00.60 PRECAST CONCRETE MANHOLE 60"	731-00.72 PRECAST CONCRETE MANHOLE 72"	604-20.10 ADJUST TO GRADE	614-30.10 MANHOLE FRAME & COVER TYPE 1-A	614-30.11 MANHOLE FRAME & COVER TYPE 1-B	614-30.12 MANHOLE FRAME & COVER TYPE 2	614-30.14 MANHOLE FRAME & COVER TYPE 4	501.03 Cont ADJUSTED DROP INLETS	731-10.32 PRECAST CONCRETE DROP INLET PAY DEPTH 3X2	731-10.33 3X3	731-10.42 4X2	731-10.52 5X2	731-10.53 5X3	614-10.10 GRATES AND BEARING PLATES	PIPE OPENINGS NO.--SIZE	732-00.12 FLARED END SECTION (M = METAL) 12"	732-00.15 15"	732-00.18 18"	732-00.24 24"	732-00.30 30"	732-00.42 42"	732-00.48 48"	604-40.11 PIPE COLLAR TYPE A	604-40.12 PIPE COLLAR TYPE B
II	25		3+75	RAMP 5	7.5'RT	II-1	A	2'	5												2			370	1-12"									
II	25		3+78	RAMP 5	46.4'RT	II-2	EXIST M		0		UIP																							
II	25		426+15	I-270	309'LT	II-3	EXIST M	UIP	0																1-24"	(FILL EXISTING 18" OPENING-NO DIRECT PAY)								
II	25		6+90	RAMP 5	14'RT	II-4	M	4'6"	9	5							1								2-24"									
II	19		7+69	RAMP 5	42'LT	II-5	F	--	*																1-24"				1					
II	19		12+00	RAMP 5	7.5'RT	II-6	A	2'0"	4												2			370	1-12"									
II	19		12+49	RAMP 5	7.5'RT	II-7	A	2'9"	5												3			370	2-12"									
II	19		12+58	RAMP 5	130.2'RT	II-8	EXIST D	UIP	0																1-42"									
II	19		12+79	RAMP 5	47'RT	II-9	M	15'9"	45			16					1								1-12",2-42"									
II	19		13+01	RAMP 5	62.75'RT	II-10	E	4'6"	7										5					WEIR	1-12"									
II	19		13+05	RAMP 5	7.17'RT	II-11	B	2'0"	4												2			370	1-12"									
II	19		12+90	RAMP 5	11.5'RT	II-12	E	4'0"	6										4					WEIR	2-12"									
II	19		12+79	RAMP 5	15'RT	II-13	M	7'0"	22			7					1								2-12,1-42,1-48"									
II	18		18+45	RAMP 8	39'LT	II-14	F	--	4																1-12"	1M								
II	18		18+92	RAMP 8	72'LT	II-15	F	--	4																1-12"	1M								
II	18		680+00	RTE.40	65'LT	II-16	EXIST D	UIP	0																									
II	18		680+00	RTE.40	95'LT	II-17	F	--	0																1-12"	1M								
II	18		22+22	RAMP 8	65'LT	II-18	F	--	10																1-42"						1			
II	18		22+00.67	RAMP 8	57.2'RT	II-19	F	--	7																						1			
II	18		14+00	RAMP 2	45.5'LT	2-27	S-1	3'0"	8													3		300										
II	18		13+83.36	RAMP 2	55.6'LT	2-29	EXIST M	UIP	0																									
II	18		20+35.81	RAMP 8	69.5'LT	2-30	EXIST M	UIP	0				1																					
II	18		21+33.75	RAMP 8	71.4'LT	2-31	F	--	12																1-48"							1		
II	18		11+55	RAMP 2	43.5'LT	2-32	S-1	4'9"	12														5	550	1-24"									
II	18		11+55	RAMP 2	52'RT	2-33	F	--	4																1-24"				1					
II	18		22+38.49	RAMP 8	81.2'RT	2-34	F	--	2																1-18"			1						
II	18		22+78.01	RAMP 8	69.75'RT	2-35	EXIST S-1	UIP	0									1					UIP											
II	19		25+23.5	RAMP 4	25'LT	II-20	F	--	0																1-24"				1M					
II	19		25+59	RAMP 4	59'LT	II-21	F	--	0																1-24"				1M					
II	17		5+58.43	RAMP 7	12.51 RT	II-23	E	3'0"	3										3					50	1-12"	1								
II	18		659+40	S. FORTY DR.	RT	EXIST.	S											1						550										
II	17		665+83	S. FORTY DR.	26.25'LT	5-4B	B	13'-3"	11												13			370										
II			661+10	S. FORTY DR.	RT	EXIST.	S											1																
SUBTOTALS (THIS SHEET)									184	5		23	1				3	3	12		22	3	5	3300	-------	4		1	4		2	1		
SUBTOTALS (PIPE SHEET)									1352																-------									
									1536																									
UNITS									CU YD	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	POUND		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH

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1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO.	ROUTE
6	IR-IES-270-5(259)	I-270
	COUNTY ST LOUIS	

STAGE III SHEET 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM ITEM 202-20.10

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	DESCRIPTION
III	27	686+25		E.B.L.40	LT	BRIDGE ANCHOR SECTION
III	27	686+80		E.B.L.40	RT	HIGHWAY GUIDE SIGN, 120 S.F.±
III	27	2+30	9+20	BYPASS 5	RT	662 L.F. TYPE A GUARDRAIL, 1 TES
III	27	3+25		BYPASS 5	B	48' 12"CGMP, 2 FES
III	27	3+25		BYPASS 5	RT	110' V DITCH LINER
III	27	4+48		BYPASS 5	RT	35' DITCH LINER, 4'FB
III	27	6+65		BYPASS 5	B	70' 18" CGMP, 2 FES
III	27	7+32		BYPASS 5	B	ONE 30"FES, LT
III	27	9+00		BYPASS 7A	B	40' 12" CGMP, 2 FES
III	27	10+44		BYPASS 7A	B	65' 12" CGMP, 2 FES
III	27	10+70		BYPASS 7A	LT	100' T.T.B. WITH HEIGHT TRANS
III	27	11+30		BYPASS 7A	RT	140' T.T.B. WITH HEIGHT TRANS
III	27	11+75		BYPASS 7A	B	48' 24' CGMP, 2 FES
III	27	11+75		BYPASS 7A	LT	48' DITCH LINER, 2'FB

206-50.99	TEMPORARY SHORING	SQ FT
601-10.00	FIELD LABORATORIES	LUMP SUM
615-10.00	OFFICE FOR ENGINEER	MONTHS
618-10.00	MOBILIZATION	LUMP SUM
602-20.00	STEEL R/W MARKER	EACH (BY MHTD FORCES)
602-30.00	CONCRETE R/W MARKER	EACH (BY MHTD FORCES)

LANDSCAPING ITEMS	STAGE:	I	II	III	IV	V	VI	SUB TOTALS	
201-10.00	CLEARING								ACRES
201-20.00	GRUBBING								ACRES
801-10.00	FERTILIZING								ACRES
802-10.00	TYPE 1 MULCH								ACRES
802-20.00	TYPE 2 MULCH								ACRES
802-30.00	TYPE 3 MULCH			2.7				2.7	ACRES
802-40.00	TYPE 4 MULCH								ACRES
802-50.00	TYPE 2 OR 3 MULCH								ACRES
CONT. 501.44	SODDING								SQ YD
805-10.00	SEEDING			2.7				2.7	ACRES

EARTHWORK ITEMS

STAGE	GRADING AREA	STATION	TO STATION	ROADWAY	203-10.00 CLASS A EXCAVATION	203-55.00 EMBANKMENT IN PLACE	203-60.00 COMPACTING EMBANKMENT	210-10.06 6" SUBGRADE COMPACTING	212-10.00 SUBGRADING AND SHOULDERING CL I	203-70.75 COMPACT IN CUT
III					86706		1068			11.0
III		18+50	24+50	Ramp #2						6.0
III		9+00	14+00	Ramp #3						5.0
				Total=						11.0
					CU YD	CU YD	CU YD	STATION	STATION	STATION

FINAL PLANS REMOVALS, EARTH, ETC

34 32

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRS-270-5(29)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE III SHEET 2

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

P.C.C. PAVEMENT

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	TYPE 3 AGGR BASE 4" THICK	309-11.06 CONCRETE BASE (NON-REINF) 6"	309-11.07 7"	309-11.08 8"	309-11.09 9"	309-11.10 10"	309-13.06 CONCRETE BASE WIDENING (NON-REINF) 6"	309-13.07 7"	309-13.08 8"	309-13.09 9"	309-13.10 10"	502-11.06 CONCRETE PAVEMENT (NON-REINFORCED) 6"	502-11.07 7"	502-11.08 8"	502-11.09 9"	502-11.10 10"	502-12.06 CONCRETE PAVEMENT REINFORCED 6"	502-12.07 7"	502-12.08 8"	502-12.09 9"	502-12.10 10"	REMARKS
III	27	19+00		24+55.71	RAMP 2		1667																					14814
III	27	8+77.75		11+04	RAMP 8		1579																					11033
III	32	425+16		432+60	I-270	LT	718																					16132
II	19,20,25	1+95		13+00	RAMP 5	RT	1412																					
II	19,25	13+00		16+72.01	RAMP 5	RT	435																					
II	19,25	8+74.53		9+76.53	RAMP 5	RT	65																					
II	19,20	24+55.71		25+17.21	RAMP 2	LT	212																					
II	19,20	26+36.16		28+62	RAMP 2	RT	268																					
II	19,20	28+62		33+12.27	RAMP 2	RT	575																					
II	19,20	28+73		29+23	RAMP 2	LT	46																					
II	19,20	29+23		33+12.27	RAMP 2	LT	178																					
																						12278						
																						435.1						
																						44.4						
																						22.3						
																						267.7						
																						500.3						
																						37.0						
																						178.2						
																					sub	2217.8						
																					sub sub	1939.9						
				SUBTOTALS			7155															Cont Stg III 4138.7						35484	
				UNITS			SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	

CONCRETE APPROACHES, CURBS ETC.

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	TYPE 3 AGGR BASE 4" THICK	ITEM NO. 304-03.43	503-10.00 BRIDGE APPRO SLAB	608-10.00 CONCRETE MEDIAN VAR W 4'WIDE	608-20.04 6'WIDE	608-20.06 SQ YD	608-30.00 CONCRETE MEDIAN STRIP VAR W 4'WIDE	608-40.04 6'WIDE	608-40.06 7"THICK	608-50.07 PAVED APPROACH 8"THICK	608-50.08 CONC SLOPE PROTECT'N 4"THICK	611-60.10	609-10.99 CONCRETE TYPE A	609-10.42 GUTTER TYPE B	609-10.51 CURB & GUTTER TYPE A	609-10.52 TYPE B	609-20.13 INT CURB TYPE M	609-20.11 CONCRETE CURB TYPE S 6"	8"	609-20.21 INTEGRAL CURB TYPE A 6"	8"	609-20.12 INTEGRAL CURB TYPE B 6"	8"	609-20.22	BARRIER LENGTH SHOWN INCLUDES 2 FT TAPER AT EACH END OF THIS AMOUNT	617-10.00 CONC TRAFFIC BARRIER TYPE A	TYPE B	617-20.00 TYPE B	617-20.99 MOD TYPE B
III	19,20	8+50		9+46	RCE	LT																			96										
III	19,20	4+69		8+50	RCE	LT																			220										
III	19,20	9+73		10+06	RCE	LT																			31										
III	19,20	10+46		10+78	RCE	LT																			32										
III	36	23+10.8		23+60.8	RP 4	LT																			20										
III	36	12+10		12+29.5	RP 4	LT																			26										
III	34	658+97		—	S 40 DR	RT																			21										
III	17	676+57		—	E B40	LT																			17										
III	46	675+87		—	W B40	LT																			22										
III	46	688+76		—	W B40	LT																			9										
III	49	699+00		699+20	W B40	LT																			27										
III	28	7+30		—	RP 9	LT																			3										
III		0+00			MO. BAPTIST HOSP	—																			9										
III	27,28	4+69		4+90	RCE	LT																			26										
III	27,28	5+15		5+50	RCE	LT																			46										
III	27,28	5+75		6+10	RCE	LT																			44										
III	27,28	6+35		6+70	RCE	LT																			44										
III	27,28	6+95		7+30	RCE	LT																			40										
III	27,28	7+55		7+90	RCE	LT																			43										
III	27,28	8+13		8+35	RCE	LT																			26										
III		8+50		9+46	PARKING LOT	LT																			89										
III	27,28	9+73		10+06	RCE	LT																			48										
III	27,28	10+46		10+78	RCE	LT																			46										
III	—	11+20		—	PARKING LOT	LT																			50										
				SUBTOTALS																					502		533								
				UNITS				SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	SQ YD	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	---	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT

CONCRETE ITEMS (2B)

FINAL PLANS

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO	PROJECT NO. IR-IØS-270-5(259)	ROUTE
DIST NO. 6	COUNTY ST LOUIS	I-270

STAGE III SHEET 3

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS PAVEMENT & BASE

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
III	27	683+80		21+67	RTE.40/RAMP 2	RT/LT	28'	

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.26	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
	TYPE I OR 2 AGGR							TYPE 4 AGGR					BITUM BASE		TYPE I-B MIX		TYPE B MIX		TYPE C MIX		SPOT WEDGE	TYPE I-C MIX		TACK	PRIME	SANDING	GRAVEL 'A' OR C.STONE
	3"	4"	5"	6"	7"	8"	9"	5"	6"	7"	8"	9"	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A			PRIMER	'B'
		672																									
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

Note: Final pay for asphalt items see Stage I, B.P. Pavt. & Base.

BITUMINOUS SHOULDERS

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
III	27	6+33.73		13+80	RAMP 8	LT	4'	
III	27	21+67		24+50	RAMP 2		4'	
III	27	425+17		430+15.2	I-270		12'	

	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.26	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
													BITUM BASE						TYPE C MIX								
		4"								7"																	
										618			Note: Final pay for asphalt items see Stage I, B.P. Pavt. & Base.														
										400																	
										708																	
SUBTOTALS		672								1726																	
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

FINAL PLANS BITUM PAVT (3)

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE III SHEET 4

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

EROSION CONTROL

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	IN-SLOPE	AVG WIDTH	OUT-SLOPE	DEPTH	LIN FT	THICK	609-10.60 PAVED DITCH	609-60.00 DITCH LINER	609-70.00 ROCK LINING		REMARKS
III	27	4+67	11+00	RAMP5/RAMP8	LT/LT	3:1	VAR.	3:1	1'			1070.7				
III	27	12+35	12+85	RAMP8	LT	3:1	VAR.	3:1	1'			57.1				
III																
III																
III																
III	27		DETENTION POND	(S.E. QUAD.)			4'					65.0				SWALE FROM III-1F
III	27		DETENTION POND	(S.E. QUAD.)			4'					367.3				SWALE FROM I-10F
											SUBTOTALS	1560.1				
											PREV. SUBTOTAL	2791.3				
											TOTAL	4351.4				
											UNITS	SQ YD	SQ YD	CU YD		

GUARDRAIL

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	606-10.10 GUARDRAIL TYPE A	606-10.20 TYPE B	606-10.30 TYPE C	606-10.40 TYPE D	606-20.00 BRIDGE ANCHOR SECTIONS	606-21.00	606-22.00 SAFETY B	606-66.10 BREAK-AWAY END ANCHOR	606-99.98 ET2000 TERM SECTION
III	25	CO. #12 5+12	6+49	Rp#5	LT	75								
III	25	CO. #12 5+12	6+49	Rp#5	RT	75								
VI	48&49	24+50	29+23	Rp#2	LT	400						1		1
					SUBTOTALS:	550						1		1
					UNITS	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH		EACH

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	ITEM NO

TEMPORARY PAVEMENT MARKING

NOTE: FOR DOUBLE SOLID LINES (DSY OR 8"SW GORE), USE DOUBLE THE 4" STRIPE LENGTH. EXAMPLE: FOR 50'OF 8"SWP, ENTER 2X50' UNDER THE 4"SWP COLUMN.

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	620-53.01 TAPE STRIPES SOLID WHITE 4"SWT	620-53.02 INTRMIT WHITE 4"IWT	620-53.03 SOLID YELLOW 4"SYT	620-53.04 INTRMIT YELLOW 4"IYT		620-70.05 REMOVE TAPE (R)	620-60.00 PAINT STRIPES SOLID WHITE 4"SWP	620-60.01 SOLID YELLOW 4"SYP	620-60.02 INTRMIT WHITE 4"IWP	620-60.03 INTRMIT YELLOW 4"IYP	620-64.31 SOLID WHITE ON C.T.B. 13"SWB	620-64.32 SOLID YELLOW ON C.T.B. 13"SYB		620-70.00 REMOVE PAINT (R)
				RTE.40/RAMP 4,TEMP CONN															
				SUBTOTALS															
				UNITS		100 FT	100 FT	100 FT	100 FT		100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT		100 FT

Note: For final pay totals for temporary pavement striping See Stage II.

MISC. ITEMS

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	TOTALS	UNIT	ITEM NO	DESCRIPTION

DITCHES,PAV'T MARKS,GUARDRAIL (III/4)

FINAL PLANS

1544 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REV MAY 1, 89

STATE	JOB NO. 6I 647I 270	SHEET NO.
MO		2B
DIST NO.	PROJECT NO.	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE III SHEET 5

PIPE

*(INCLUDES CL. 3 EXC. FOR FES'S)

STAGE	PLAN SHEET	FROM STATION	FROM ROADWAY	FROM SIDE	TO STATION	TO ROADWAY	TO SIDE	TO STR	TO STR	CULVERT SHEET
III	27	12+79	RAMP 5	LT	---		LT	II-22M	III-1F	
III	27	20+00	RAMP 2	LT	20+45	RAMP 2	RT	III-2F	III-3F	
III	27	21+50	RAMP 2	LT	---		RT	III-4F	III-5F	

ITEM NO	206-30.00	725-10.12	725-10.15	725-10.18	725-10.24	725-10.30	725-10.36	726-13.12	726-13.15	726-13.18	726-13.24	726-13.30	726-13.36	726-13.42	726-13.48	726-99.18	726-99.24	726-99.30	726-99.36	726-99.42	726-99.43	611-99.91	
	CLASS 3 EXCAVATION *	CORRUGATED METAL PIPE						CLASS III REINF CONCRETE PIPE								JACKED CL III RCP (GASKET TYPE)						GROUT FILL IN DRAIN STRUCT	REMARKS
		12"	15"	18"	24"	30"	36"	12"	15"	18"	24"	30"	36"	42"	48"	18"	24"	30"	36"	42"	48"		
	30							68							# 17								# Adjust to match Sewer Rate
	56										47												*(INCLUDES EXC. FOR 2 FES'S)
	59																						*(INCLUDES EXC. FOR 2 FES'S)
SUBTOTALS	145							68			47				17								
	SEE NEXT SHEET																					---	
UNITS	CU YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	CU YD		

35-36

PIPE (SY 5)

1544 24 TO 1

REV MAY 1, 89

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO. 6I 647I 270	SHEET NO. 2B
DIST NO. 6	PROJECT NO.	ROUTE I-270
	COUNTY ST LOUIS	

STAGE III SHEET 6

DRAINAGE STRUCTURES

STAGE	PLAN SHEET	CULVERT SHEET	STATION	ROADWAY	SIDE	STRUCT	TYPE	DESIGN 'D'
III	27		12+79	RAMP 5	LT	III-1F	FES	
III	27		20+00	RAMP 2	LT	III-2F	FES	
III	27		20+45	RAMP 2	RT	III-3F	FES	
III	27		21+50	RAMP 2	LT	III-4F	FES	
III	27		21+50	RAMP 2	RT	III-5F	FES	
III	27		12+84	RAMP 8	RT	III-3BS		

*(CL 3 EXC. INCLUDED ON PIPE SB SHEET)

ITEM NO	206-30.00	731-00.48	731-00.60	731-00.72	731-99.84	614-30.10	614-30.11	614-30.12	614-30.14	731-10.22	731-10.32	731-10.33	731-10.42	731-10.52	501, 3*.** CONT.	614-10.10	732-00.12	732-00.15	732-00.18	732-00.24	732-00.30	732-00.36	732-00.42	732-00.48	
	CLASS 3 EXCAVATION	PRECAST CONCRETE MANHOLE				MANHOLE FRAME & COVER				PRECAST CONCRETE DROP INLET PAY DEPTH					SPECIAL ADJUST	GRATES AND BEARING PLATES	PIPE OPENINGS		FLARED END SECTION (M = METAL)						
		48"	60"	72"	84"	TYPE 1-A	TYPE 1-B	TYPE 2	TYPE 4	2X2	3X2	3X3	4X2	5X2	5X3		NO.--SIZE	12"	15"	18"	24"	30"	36"	42"	48"	
	*																	1							1	
	*																	1								
	*																				1					
	*																				1					
	*																									C.O. #6
															1										
SUBTOTALS (THIS SHEET)	0 *														1		--------	2			2				1	
SUBTOTALS (PIPE SHEET)	146																--------									
UNITS	CU YD	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	POUND	--------	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	

DRAINAGE STRUCTURES (SH 6)

36-37

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST LOUIS	

STAGE IV SHEET 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM ITEM 202-20.10

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE		DESCRIPTION
IV	36	685+00±	698+69±	EXIST.E.B.40	RT EX ℄		36'± P.C.C PAV'T WITH INTEGRAL CURB, APPROX. 6370 S.Y.
IV	36	687+25		EXIST.E.B.40	LT		FES ON 12" CGMP (RT SIDE TEMP.CONN,EB-NB)
IV	36	687+25	695+73±	EXIST.E.B.40	LT		V DITCH LINER
IV	36	692+05±	695+73±	EXIST.E.B.40	LT		TEMP.SHORING, T.T.B.
IV	36	696+10±	692+05±	EXIST.E.B.40	EX ℄		595'± T.T.B.

206-50.99	TEMPORARY SHORING	SQ FT
601-10.00	FIELD LABORATORIES	LUMP SUM
615-10.00	OFFICE FOR ENGINEER	MONTHS
618-10.00	MOBILIZATION	LUMP SUM
602-20.00	STEEL R/W MARKER	EACH (BY MHTD FORCES)
602-30.00	CONCRETE R/W MARKER	EACH

LANDSCAPING ITEMS	STAGE:	I	II	III	IV	V	VI	SUB-TOTALS	
201-10.00	CLEARING								ACRES
201-20.00	GRUBBING								ACRES
801-10.00	FERTILIZING								ACRES
802-10.00	TYPE 1 MULCH								ACRES
802-20.00	TYPE 2 MULCH								ACRES
802-30.00	TYPE 3 MULCH				2.0			2.0	ACRES
802-40.00	TYPE 4 MULCH								ACRES
802-50.00	TYPE 2 OR 3 MULCH								ACRES
CONT.501.44	SODDING								SQ YD
805-10.00	SEEDING				2.0			2.0	ACRES

EARTHWORK ITEMS

STAGE	GRADING AREA	STATION	TO STATION	ROADWAY	203-10.00 CLASS A EXCAVATION	203-55.00 EMBANKMENT IN PLACE	203-60.00 COMPACTING EMBANKMENT	210-10.06 6" SUBGRADE COMPACTING	212-10.00 SUBGRADING AND SHOULDERING CL I	203-70.75 COMPACT IN CUT
IV					10108		10687			
					CU YD	CU YD	CU YD	STATION	STATION	STATION

REMOVALS, EARTH, ETC

IV1

FINAL PLANS

37 38

1544 24 TO 1

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO.
MO	PROJECT NO. IR-IRG-270-5(259)	2B
DIST NO. 6	COUNTY ST LOUIS	ROUTE I-270

FINAL PLANS

STAGE IV SHEET 2

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

P.C.C. PAVEMENT

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	304-03.43 TYPE 3 AGGR BASE 4" THICK	309-11.06 CONCRETE BASE (NON-REINF) 6"	309-11.07 7"	309-11.08 8"	309-11.09 9"	309-11.10 10"	309-13.06 CONCRETE BASE WIDENING (NON-REINF) 6"	309-13.07 7"	309-13.08 8"	309-13.09 9"	309-13.10 10"		502-11.06 CONCRETE PAVEMENT (NON-REINFORCED) 6"	502-11.07 7"	502-11.08 8"	502-11.09 9"	502-11.10 10"	502-12.06 CONCRETE PAVEMENT REINFORCED 6"	502-12.07 7"	502-12.08 8"	502-12.09 9"	502-12.10 10"	REMARKS
IV	37	694+26	698+86.95	E.B.L.40	LT	1997																					18438	
IV	37	694+26	698+86.95	E.B.L.40	RT	589																512.2						
IV	36	23+61.5	25+50	RAMP 4	LT	440																					377.0	
IV	36	658+40	661+40	S.40 DR.	RT	783														733.3								
IV	36	23+61.50	24+20	RAMP 4	LT	30																19.8						
				SUBTOTALS		3839														733.3		532					2220.8	
				UNITS		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	

CONCRETE APPROACHES, CURBS ETC.

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	304-03.43 TYPE 3 AGGR BASE 4" THICK	503-10.00 BRIDGE APPRO SLAB	608-10.00 CONCRETE MEDIAN VAR W SQ YD	608-20.04 4'WIDE	608-20.06 6'WIDE	608-30.00 CONCRETE MEDIAN STRIP VAR W SQ YD	608-40.04 4'WIDE	608-40.06 6'WIDE	501.05 CONT. PAVED APPROACH 7"THICK	608-50.08 8"THICK	611-60.10 CONC SLOPE PROTECT'N 4"THICK	609-10.99 CONCRETE GUTTER MODIFIED TYPE B	609-10.42 TYPE B	609-10.51 CURB & GUTTER TYPE A	609-10.52 TYPE B	609-20.13 INT CURB TYPE M	609-10.10 CONCRETE CURB TYPE S 6"	609-10.11 8"	609-20.11 INTEGRAL CURB TYPE A 6"	501.42 Cont 501.42 Special 12"	609-20.12 INTEGRAL CURB TYPE B 6"	609-20.22 8"	BARRIER LENGTH SHOWN INCLUDES HEIGHT TRANS OF THIS AMOUNT	617-10.00 CONC TRAFFIC BARRIER TYPE A	617-20.00 TYPE B	617-20.99 MOD TYPE B				
IV	37	694+06.0	694+26	E.B.L.40	BOTH	117	115.0																												

IV	36	23+40.8	23+61.5	RAMP 4	BOTH	73	66.7							97.2										242	848					8					

IV	34	658+97	---	S.40 DR.	RT	---																													
IV	34	658+40	661+40	S.40 DR.	RT	---																													
IV	36,37	2+50	10+98	R.C.E.	RT									127.6								173													
IV	33,34	664+25		S.40 DR.	LT																														
IV	33,34	658+97		S.40 DR	RT											61.6																			
IV	34	21+53	666+50	RAMP3/WBL40	RT											15.2																			
*II	20	8+12	7+00	RAMP 5/RAMP9	RT/RT											22.2																			
*II	17	428+19	428+67	N.40 DR.	LT											539.5																			
*II	17	427+59	428+19	N.40 DR.	LT											26.2																			
IV	36	22+44	23+57	RAMP4	RT/LT											327																			
IV	37	28+59	29+09	RAMP2	RT											246.4																			
IV	37	696+70	698+80	E.B.40	RT											356.5																			
IV	37	694+06	696+70	E.B 40	RT											302.1																			
IV	37	5+35	7+00	RAMP9	LT/RT											462.2																			
IV	36	693+76	694+05	E.B.40	LT/RT											309.1																			
IV	36	25+13	26+35	RAMP 2	LT											18.2																			
IV	37	27+85	29+20	RAMP 2	LT																														
IV	36	8+25	8+51	RAMP 6	RT/LT																														
				SUBTOTALS		190	181.7							224.8		2391.9						173		242	848			---		8					
				UNITS		SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	SQ YD	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	---	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT

* Cont. From Stage II

CONCRETE ITEMS IV/2

FINAL PLANS

38-39

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE IV SHEET 3

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS PAVEMENT & BASE

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.25	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408-10.10	408-20.00	310.50.01
	TYPE I OR 2 AGGR							TYPE 4 AGGR					BITUM BASE		TYPE I-B MIX		TYPE B MIX		TYPE C MIX			TYPE I-C MIX		TACK	PRIME		GRAVEL 'A' OR C.STONE
																					SPOT WEDGE					SANDING	'B'
																										PRIMER	
	3"	4"	5"	6"	7"	8"	9"	5"	6"	7"	8"	9"	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A				
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

Note: Final pay for asphalt items see Stage I, Bit Pvt & Base

BITUMINOUS SHOULDERS

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	WIDTH	TYPE
IV ✓	3A ✓	23+82. ✓		25+50. ✓	RAMP 4 ✓	LT ✓	4'	V

SUBTOTALS													BITUM BASE						TYPE C MIX								
UNITS	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

7"
98.6 ✓

Note: Final pay asphalt items see stage I, Bit Pvt & Base ✓

98.6 ✓

BITUM PAVT

FINAL PLANS

3940

1544

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE IV SHEET 4

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

EROSION CONTROL

ITEM NO						609-10.60	609-60.00	609-70.00		
						PAVED DITCH	DITCH LINER	ROCK LINING		
STAGE	SHEET	STATION TO STATION	ROADWAY	SIDE	IN-SLOPE / AVG WIDTH / OUT-SLOPE	DEPTH	LIN FT	THICK		REMARKS
IV	36	21+67 / 25+00	RAMP 2	LT	6:1 / 2' / 3:1	1.0'			411.6	
IV	36	25+00 / 28+65	RAMP2	LT	VAR / 2' / VAR	1.0'			352.4	
IV	36	28+65 / 29+23	RAMP2	LT	VAR / 2' / VAR	1.0'			58.2	
							SUBTOTALS		822.2	
									4351.4	
									5173.6	
							UNITS		SQ YD	SQ YD / CU YD

GUARDRAIL

ITEM NO					606-10.10	606-10.20	606-10.30	606-10.40	606-20.00	606-21.00	606-22.00	
						GUARDRAIL			BRIDGE ANCHOR SECTIONS			BREAK AWAY END ANCHOR
STAGE	SHEET	STATION TO STATION	ROADWAY	SIDE	TYPE A	TYPE B	TYPE C	TYPE D			SAFETY B	
IV	37	694+20 / 699+18	E.B.L.40	RT	481						2	
				SUBTOTALS:	481						2	
				UNITS	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	

ITEM NO				
STAGE	SHEET	STATION TO STATION	ROADWAY	SIDE

TEMPORARY PAVEMENT MARKING

NOTE: FOR DOUBLE SOLID LINES (DSY OR 8"SW GORE), USE DOUBLE THE 4" STRIPE LENGTH. EXAMPLE: FOR 50'OF 8"SWP, ENTER 2X50' UNDER THE 4"SWP COLUMN.

ITEM NO					620-53.01	620-53.02	620-53.03	620-53.04	620-70.05	620-60.00	620-60.01	620-60.02	620-60.03	620-64.31	620-64.32	620-70.06
					TAPE STRIPES					PAINT STRIPES						
					SOLID	INTRMIT	SOLID	INTRMIT	REMOVE	SOLID	SOLID	INTRMIT	INTRMIT	WHITE	YELLOW	REMOVE
					WHITE	WHITE	YELLOW	YELLOW	TAPE	WHITE	YELLOW	WHITE	YELLOW	ON C.T.B.	ON C.T.B.	PAINT
STAGE	SHEET	STATION TO STATION	RDWY	SIDE	4"SWT	4"IWT	4"SYT	4"IYT	(R)	4"SWP	4"SYP	4"IWP	4"IYP	13"SWB	13"SYB	(R)
				SUBTOTALS												
				UNITS	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT

Note: For final pay totals for temporary pavement striping See Stage I.

MISC. ITEMS

Cont Item - Relocated Glare Fence - Line 901.04

STAGE	SHEET	STATION	TO STATION	ROADWAY	SIDE	TOTALS	UNIT	ITEM NO	DESCRIPTION	
IV	34	660+40	666+40	E.B. RTE 40	LT	600	LIN FT	607-99.10	RELOC	GLARE FENCE
IV	6	4+10	5+40	BY PASS 5	LT	150	LIN FT	607-99.10	RELOC	GLARE FENCE
					TOTAL	750				

MISC. DITCHES, PAVT MARKS, GUARDRAIL IV 14

FINAL PLANS

1544 24 TO 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REV MAY 1, 89

FINAL PLANS

STATE	JOB NO. J6I06471	SHEET NO.
MO		2B
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE IV SHEET 5

PIPE

STAGE	PLAN SHEET	FROM STATION	FROM ROADWAY	FROM SIDE	TO STATION	TO ROADWAY	TO SIDE	STR TO STR		CULVERT SHEET	ITEM NO 206-30.00 CLASS 3 EXCAVATION	725-10.12 CORRUGATED METAL PIPE 12"	725-10.15 15"	725-10.18 18"	725-10.24 24"	725-10.30 30"	725-10.36 36"	726-13.12 CLASS III REINF CONCRETE PIPE 12"	726-13.15 15"	726-13.18 18"	726-13.24 24"	726-13.30 30"	726-13.36 30"	726-13.42 42"	726-13.48 48"	726-99.18 JACKED CL III RCP (GASKET TYPE) 18"	726-99.24 24"	726-99.30 30"	726-99.36 36"	726-99.42 42"	726-99.48 48"	611-99.91 GROUT FILL IN DRAIN STRUCT	REMARKS
IV		687+70.35	RTE.40	RT	686+84.35	RTE.40	RT	IV-1F	IV-2F		113										86										
		0+00	HOSP. P LOT	LT	3+78	RAMP 5	RT	T-01	I-3M		42	66																			ADDED C.O.20M
		675+87.67	RTE.40	LT	— —	— —		5-1B	—		54	118																			C.O.13
		688+76.54	RTE.40	LT	— —	— —		5-2B	—		51	114																			" C.O.13
		12+19	RAMP 4	LT	— —	— —		5-3B	—		38	86																			" C.O.13
		23+65.75	RAMP 4	LT	— —	— —		5-4B	—		37	85																			" C.O.13
		676+57	RTE.40	RT	— —	— —		5-5B	—		45	110																			" C.O.13
		152+19	MH.TD.P LOT	LT	152+42	MH.TD.P LOT	RT	1	2		59									137										" C.O.14
		161+75	MH.TD.P LOT	LT	162+24	MH.TD.P LOT	RT	3	4		84									124										" C.O.14
SUBTOTALS											523	579								261	85										
											SEE NEXT SHEET																					
UNITS											CU YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT		LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	CU YD	

FINAL PLANS PIPE 2/2

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE IV SHEET 6

DRAINAGE STRUCTURES

*(CL.3 EXC. FOR FEB'S INCLUDED ON PIPE 2B SHEET)

STAGE	PLAN SHEET	CULVERT SHEET	STATION	ROADWAY	SIDE	STRUCT	TYPE	DESIGN 'D'	CLASS 3 EXCAVATION
IV						IV-1	F	-	*
IV						IV-2	F	-	*
			675+87.67	RTE. 40	LT	5-1B		3	7
			688+76.54	RTE. 40	LT	5-2B		3	7
			12+19	RAMP 4	LT	5-3B		3	6
			23+65.75	RAMP 4	LT	5-4B		3	6
			676+57	RTE. 40	RT	5-5B		3	10
			152+19	MH.T.D. P. LOT	LT	1	S-1	4'	5
			152+42	MH.T.D. P. LOT	RT	2	S-1	2'-6"	5
			161+75	MH.T.D. P. LOT	LT	3	S-1	2'	7
			162+24	MH.T.D. P. LOT	RT	4	S-1	6'-3"	7
			0+00	HOSP. P. LOT	LT	T-D.I.	T	5	8

ITEM NO	206-30.00	731-00.48	731-00.60	731-00.72	731-99.84	614-30.10	614-30.11	614-30.12	614-30.14	731-10.22	731-10.32	731-10.33	731-10.42	731-10.52	731-10.53	614-10.10	732-00.12	732-00.15	732-00.18	732-00.24	732-00.30	732-00.36	732-00.42	732-00.48
		PRECAST CONCRETE MANHOLE				MANHOLE FRAME & COVER				PRECAST CONCRETE DROP INLET						GRATES AND BEARING PLATES			FLARED END SECTION (M = METAL)					
												PAY DEPTH (CONT ITEM 501.53)												
		48"	60"	72"	84"	TYPE 1-A	TYPE 1-B	TYPE 2	TYPE 4	2X2	3X2	3X2.5	4X2	5X2	5X3		PIPE OPENINGS NO.--SIZE	12"	15"	18"	24"	30"	36"	42"	48"
																				1				
													3			370	1-12"			1				
													3			370	1-12"							
													3			370	1-12"							
											3					280	1-12"							
													3			370	1-12"							
											4					190	1-18", 1-24"							
											3					190	1-18"							
											2					190	1-18"							
									1			5		6		EXIST.	1-18"								CO. 20M
SUBTOTALS (THIS SHEET)		68							1		12	5	12	6		2330				2				
SUBTOTALS (PIPE SHEET)		523																						
		591																						
UNITS		CU YD	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	POUND		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH

DRAINAGE STRUCTURES 8/10

FINAL PLANS

#3 #3

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO.	ROUTE
6	IR-IRG-270-5(259)	I-270
	COUNTY ST LOUIS	

STAGE V SHEET 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM ITEM 202-20.10

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	DESCRIPTION
V		661+50	664+00	E.B.L.40	RT	EXIST. VAR. WIDTH REINF. P.C.C.PAVEMENT (APPROX. 1117 S.Y.)

206-50.99	TEMPORARY SHORING	SQ FT
601-10.00	FIELD LABORATORIES	LUMP SUM
615-10.00	OFFICE FOR ENGINEER	MONTHS
618-10.00	MOBILIZATION	LUMP SUM
602-20.00	STEEL R/W MARKER	EACH } (BY MHTD FORCES)
602-30.00	CONCRETE R/W MARKER	EACH }

LANDSCAPING ITEMS	STAGE:	I	II	III	IV	V	VI	SUB-TOTALS	
201-10.00	CLEARING								ACRES
201-20.00	GRUBBING								ACRES
801-10.00	FERTILIZING								ACRES
802-10.00	TYPE 1 MULCH								ACRES
802-20.00	TYPE 2 MULCH					26.5		26.5	ACRES
802-30.00	TYPE 3 MULCH								ACRES
802-40.00	TYPE 4 MULCH								ACRES
802-50.00	TYPE 2 OR 3 MULCH						617	617	SQ YD
CONT 501.44	SODDING					26.5		26.5	ACRES
805-10.00	SEEDING								

EARTHWORK ITEMS

STAGE	GRADING AREA	STATION	TO STATION	ROADWAY	203-10.00 CLASS A EXCAVATION	203-55.00 EMBANKMENT IN PLACE	203-60.00 COMPACTING EMBANKMENT	Final Measured (301.60) CLASS C EXCAVATION	212-10.00 SUBGRADING AND SHOULDERING CL I	203-70.75 COMPACT IN CUT
V					4144	58032	51203	2376 CY		
				C.O.#4 Sproede Rd Temp Signals	60					
V				C.O.#24 Lt. Deduct Hwy Quard Cut Back	- 2376					
V				C.O.#13 Beam Bearing Bridge ends			22			
V				C.O.#26 Soil Quadrant Fill creek			1267			
V				C.O.#24 R.C.E. Ltr. Split Rdwy Lot			163			
					CU YD	CU YD	CU YD	STATION	STATION	STATION

REMOVALS, EARTH, ETC (V1)

FINAL PLANS

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

STAGE V SHEET 2

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

P.C.C. PAVEMENT

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	ITEM NO. 304-03.43 TYPE 3 AGGR BASE 4" THICK SQ YD	309-11.06 CONCRETE BASE (NON-REINF) 6" SQ YD	309-11.07 CONCRETE BASE (NON-REINF) 7" SQ YD	309-11.08 CONCRETE BASE (NON-REINF) 8" SQ YD	309-11.09 CONCRETE BASE (NON-REINF) 9" SQ YD	309-11.10 CONCRETE BASE (NON-REINF) 10" SQ YD	309-13.06 CONCRETE BASE WIDENING (NON-REINF) 6" SQ YD	309-13.07 CONCRETE BASE WIDENING (NON-REINF) 7" SQ YD	309-13.08 CONCRETE BASE WIDENING (NON-REINF) 8" SQ YD	309-13.09 CONCRETE BASE WIDENING (NON-REINF) 9" SQ YD	309-13.10 CONCRETE BASE WIDENING (NON-REINF) 10" SQ YD	502-11.06 CONCRETE PAVEMENT (NON-REINFORCED) 6" SQ YD	502-11.07 CONCRETE PAVEMENT (NON-REINFORCED) 7" SQ YD	502-11.08 CONCRETE PAVEMENT (NON-REINFORCED) 8" SQ YD	502-11.09 CONCRETE PAVEMENT (NON-REINFORCED) 9" SQ YD	502-11.10 CONCRETE PAVEMENT (NON-REINFORCED) 10" SQ YD	502-12.06 CONCRETE PAVEMENT REINFORCED 6" SQ YD	502-12.07 CONCRETE PAVEMENT REINFORCED 7" SQ YD	502-12.08 CONCRETE PAVEMENT REINFORCED 8" SQ YD	502-12.09 CONCRETE PAVEMENT REINFORCED 9" SQ YD	502-12.10 CONCRETE PAVEMENT REINFORCED 10" SQ YD	REMARKS
V	4	651+50		663+14	RTE.40	LT	255															255					3782	
V	4,5	661+50		670+95	E.B.L.40	RT	4095																				172.0	
V	4	0+00		2+58.35	RAMP 7	LT	172																				82.0	
V	4	2+58.35		3+19.85	RAMP 7	LT	92																					
V	4	663+16		668+75	E.B.L.40	LT	1021															1602.7						
V	12	668+71		669+55	W.B.L.40	RT	70															56.0						
V	12	693+50		698+86.87	W.B.L.40	RT	358															357.9						
V	15	4+44		—	Rp #5 MO.BAPTIST HOSPITAL	RT	0												4.0									
V	12	696+26		695+80	E.B.L.40	LT	128															102.7						
V	12	695+80		697+89	E.B.L.40	RT	67															106.7						
V	5	670+95		676+71	E.B.L.40	RT	3264																				3078.0	
V	5	661+50		670+95	E.B.L.40	RT	1260																				1260	
V	6	660+95.76		661+50	EBL 40	RT	72																				72.3	
V	6	661+34		661+50	EBL 40	LT	21																				21.3	
V	12	688+76.54			WBL 40	RT	6																				6.3	
V	12	675+87.67			WBL 40	RT	6																				6.3	
V	12	676+57			EBL 40	LT	11																				11.1	
V		12+19			RAMP 4	LT	5																				4.6	
					SUBTOTALS		111503												4.0			2459.0					8488.1	
					UNITS		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	

CONCRETE APPROACHES, CURBS ETC.

STAGE	SHEET	STATION	TO	STATION	RDWY	SIDE	ITEM NO. 304-03.43 TYPE 3 AGGR BASE 4" THICK SQ YD	503-10.00 BRIDGE APPRO SLAB VAR W SQ YD	608-10.00 CONCRETE MEDIAN 4'WIDE SQ YD	608-20.04 CONCRETE MEDIAN 6'WIDE SQ YD	608-20.06 CONCRETE MEDIAN 8'WIDE SQ YD	608-30.00 CONCRETE MEDIAN STRIP VAR W SQ YD	608-40.04 CONCRETE MEDIAN STRIP 4'WIDE SQ YD	608-40.06 CONCRETE MEDIAN STRIP 6'WIDE SQ YD	608-50.07 PAVED APPROACH 7"THICK SQ YD	608-50.08 PAVED APPROACH 8"THICK SQ YD	611-60.10 CONC SLOPE PROTECT'N 4"THICK SQ YD	609-10.99 CONCRETE MODIFIED TYPE B LIN FT	609-10.42 GUTTER TYPE B LIN FT	609-10.51 CURB & GUTTER TYPE A LIN FT	609-10.52 CURB & GUTTER TYPE B LIN FT	609-20.13 INT CURB TYPE M	609-10.10 CONCRETE CURB TYPE S 6" LIN FT	609-10.11 CONCRETE CURB TYPE S 8" LIN FT	609-20.11 INTEGRAL CURB TYPE A 6" LIN FT	609-20.21 INTEGRAL CURB TYPE A 8" LIN FT	CONT- 501.47 (Asphalt Section) Curb 6" LIN FT	BARRIER LENGTHS SHOWN ALSO WEIGHT TRANS OF THIS AMOUNT	617-10.00 CONC TRAFFIC BARRIER TYPE A LIN FT	617-20.00 CONC TRAFFIC BARRIER TYPE B LIN FT	617-10.99 MOD CONC TRAFFIC BARRIER TYPE A LIN FT
V	5	676+71		676+96.8	E.B.L.40 (BR.A-4652)	LT,RT	165	162.4																							
V	45,46	652+79.5		662+06.5	E.B.L.40	LT																							919	
V	49,50	700+99.7		701+85	E.B.L.40	LT																							85	
V	49,50	701+85		705+90	E.B.L.40	LT																							400	
V	49,50	705+90		706+77	E.B.L.40	LT																							87	
V	49,50	706+77		707+99	EBL 40	LT																							122	
V	45,46	667+19		668+75	EBL 40	LT																							156	
V	49,50	699+00		699+58	EBL 40	LT																							58	
V	49	693+50		695+01	WBL 40	RT																							151	
V	49	695+01		695+97	WBL 40	RT																							96	
V	45,46	660+35		660+99	EBL 40	LT																								64
V	45,46	660+99		661+50	EBL 40	LT																								50
V	45,46	662+06.5		667+19.5	EBL 40	LT																								500
V	49,50	696+06		698+86	EBL 40	LT																								277
V	49,50	695+97		696+06	EBL 40	LT																								9
V	42	676+80		676+97	EBL 40	RT											7.6													
V	42	674+78		676+97	EBL 40	LT											8.4													
V	43	688+76		688+76	WBL 40	LT/RT											13.3													
V	42	675+87		675+87	WBL 40	LT/RT											15.1													
V	42	12+35		12+35	RAMP 4	LT/RT											17.8													
V	42	676+15		—	WBL 40	RT											11.20											320			
VI	46	18+00		21+82	RAMP 3	RT																									
					SUBTOTALS		165	162.4									1742												2074	900	
					TOTAL		1434A										2566.1											320	---		
					UNITS		SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	SQ YD	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	---	LIN FT	LIN FT	LIN FT

FINAL PLANS CONCRETE ITEMS (V/2)

1544 24 TO 1

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO. J6I0647I	SHEET NO. 2B
MO	PROJECT NO. IR-IRG-270-5(259)	ROUTE
DIST NO. 6	COUNTY ST LOUIS	I-270

STAGE V SHEET 3

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS PAVEMENT & BASE

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	WIDTH	TYPE
V (?)		408+95	(LIGHT TOWER 1)	I-270	87'LT	10'DIAM	'WALK'
V (?)		12+25	(LIGHT TOWER 2)	RAMP 2	58'LT	10'DIAM	'WALK'
V (?)		26+50	(LIGHT TOWER 3)	RAMP 4	33'RT	10'DIAM	'WALK'
V (?)		674+82	(LIGHT TOWER 4)	W.B.L.40	69'RT	10'DIAM	'WALK'
V (?)		13+50	(LIGHT TOWER 5)	RAMP 8	33'RT	10'DIAM	'WALK'
V (?)		24+65	(LIGHT TOWER 6)	RAMP 6	48'RT	10'DIAM	'WALK'
V (?)		424+13	(LIGHT TOWER 7)	I-270	87'LT	10'DIAM	'WALK'

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.25	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
		TYPE I OR 2 AGGR						TYPE 4 AGGR					BITUM BASE		TYPE I-B MIX		TYPE B MIX		TYPE C MIX		SPOT WEDGE	TYPE I-C MIX		TACK	PRIME		GRAVEL 'A' OR C.STONE
																									SANDING	PRIMER	'B'
		3"	4"	5"	6"	7"	8"	9"	5"	6"	7"	8"	9"	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A				
			6.5											Note: Final pay for asphalt items see Stage I B.T. Pavt. & Base.														
			6.5																								
			6.5																								
			6.5																								
			6.5																								
			6.5																								
SUBTOTALS			45.5																								
UNITS		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

BITUMINOUS SHOULDERS

STAGE	SHEET	STATION	TO STATION	RDWY	SIDE	WIDTH	TYPE
V	41-42	673+00	676+50	E.B.L.40	LT	9'-3"	V
V	42	676+50	676+71	E.B.L.40	LT	9'-6'	V
V	41	670+98	673+35	E.B.L.40	RT	6'	V
V	41	673+35	673+85	E.B.L.40	RT	6'-9"	V
V	46	670+27	670+62	E.BL.40	RT	0-6'	V
V	46	670+62	670+95	E.B.L.	RT	6'	V
V	C.O.#4	16+20	17+20	SPOEDE RD.	RT	—	V

ITEM NO	304-00.33	304-00.43	304-00.53	304-00.63	304-00.73	304-00.83	304-00.93	304-04.53	304-04.63	304-04.73	304-04.83	304-04.93	301-10.11	301-20.00	403-71.00	403-72.00	403-10.11	403-10.25	403-10.11	403-10.26	403-10.27	403-81.00	403-82.00	407-10.05	408.10.10	408-20.00	310.50.01
		TYPE I OR 2 AGGR						TYPE 4 AGGR					BITUM BASE		TYPE I-B MIX		TYPE B MIX		TYPE C MIX		SPOT WEDGE	TYPE I-C MIX		TACK	PRIME		GRAVEL 'A' OR C.STONE
																									SANDING	PRIMER	'B'
		3"	4"	5"	6"	7"	8"	9"	5"	6"	7"	8"	9"	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	A CEM	MIN A	MIN A	A CEM	MIN A				
											7"			Note: Final pay for asphalt items see Stage I B.T. Pavt. & Base.														
											468																	
											23																	
											235																	
											58																	
											23																	
											32																	
			179.8																								
SUBTOTALS			225.3								839																
UNITS		SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	GALLONS	GALLONS	CU YD	CU YD

FINAL PLANS

BITUM PAVT

FINAL PLANS

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	2B
DIST NO.	PROJECT NO. IR-IR5-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STAGE V SHEET 4

EROSION CONTROL

ITEM NO	609-10.60	609-60.00	609-70.00	
	PAVED DITCH	DITCH LINER	ROCK LINING	REMARKS
	725			
	960.9			
	406.2			
	38.5			
	561.0			
	210.2			
	59.6			
	48.6			
	20.0			
	138.4			
	45.4			
	66.1			
	29.9			
SUBTOTALS	2637.3			
PREV SUBTOTAL	5173.6			
FINAL TOTAL	7810.9			
UNITS	SQ YD	SQ YD	CU YD	

STAGE	SHEET	STATION	TO	STATION	ROADWAY	SIDE	IN-SLOPE	AVG WIDTH	OUT-SLOPE	DEPTH	LIN FT	THICK
V	42	22+90		23+37	RAMP 6	RT	3:1	VAR	3:1	1.5		
V	42	670+00		675+78	E.B. 40	LT	3:1	2'	3:1	2.0		
V	42	675+78		678+50	E.B. 40	LT	3:1	2'	3:1	2.0		
V	42	676+57		——	E.B. 40	LT	3:1	2'	3:1	2.0		
VI	47	5+00		11+25	RAMP 7/RAMP 4	LT/LT	3:1	VAR	3:1	1.5		
VI	47	11+25		12+65	RAMP 4	LT	3:1	2'	3:1	1.5		
VI	47	23+95		23+37	RAMP 6	RT	3:1	VAR	3:1	1.5		
ADDED		416+79			N. 40 DR.	RT	3:1	VAR	3:1	1.0		
ADDED		699+00		699+60	RTE 40	LT	3:1	—	—	—		
ADDED		18+00		——	RAMP 3	RT	3:1	1'	3:1	1.0		
ADDED		668+28		——	W.B 40	LT	3:1	1'	3:1	1.0		
ADDED		125+00		125+70	RTE JJ	LT	3:1	VAR	3:1	1.0		
ADDED		7+30		——	RAMP 9	LT	3:1	0	3:1	1.0		

GUARDRAIL - STAGE V & VI

ITEM NO	606-10.10	606-10.20	606-10.30	606-10.40	606-G620	606-21.00	606-22.00	606-46.10	606-99.98
	GUARDRAIL				END ANCHOR EMBEDDED	ANCHOR SECTIONS		BREAK BRIDGE AWAY	ET2000 TERM SECTION
	TYPE A	TYPE B	TYPE C	TYPE D		SAFETY B	END ANCHOR		
	325					1-1			1-1
	900					1-1			1-1
	141.5					2-1			
	256					1-1	1-1		
	250					1-1			
	82					1-1			
	98.5					1-1			1-1
	62.5					1-1			
	237.5					1-1			
	—								
SUBTOTALS:	1853					10-1	1-1		1-1
UNITS	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH		

STAGE	SHEET	STATION	TO	STATION	ROADWAY	SIDE	ITEM NO
V	42	672+87		676+80	EB 40	RT	
V	41-42	672+05		676+80	EB 40	LT	
VI	49	694+20		695+80	EB 40	RT	
VI	49	691+35		693+91	WB 40	RT	
VI	48	23+56		26+26	RP #4	RT	
VI	46	668+73		669+56	WB 40	RT	
—	82A (PREVIOUSLY PLACED)	425+51		486+49	WB 40	LT	
—	82A	378+43		379+06	EB 40	RT	
—	82A	480+46		482+84	EB 40	RT	
—	82A	402+70		—	WB 40	LT	
V	42	7+52		8+08	RAMP 4	LT	

TEMPORARY PAVEMENT MARKING

NOTE: FOR DOUBLE SOLID LINES (DSY OR 8"SW GORE), USE DOUBLE THE 4" STRIPE LENGTH. EXAMPLE: FOR 50'OF 8"SWP, ENTER 2X50' UNDER THE 4"SWP COLUMN.

ITEM NO	620-53.01	620-53.02	620-53.03	620-53.04	620-70.05	620-60.00	620-60.01	620-60.02	620-60.03	620-64.31	620-64.32	620-70.06
	TAPE STRIPES				REMOVE TAPE	PAINT STRIPES						REMOVE PAINT
	SOLID WHITE	INTRMIT WHITE	SOLID YELLOW	INTRMIT YELLOW	(R)	SOLID WHITE	SOLID YELLOW	INTRMIT WHITE	INTRMIT YELLOW	SOLID WHITE ON C.T.B.	SOLID YELLOW ON C.T.B.	(R)
	4"SWT	4"IWT	4"SYT	4"IYT		4"SWP	4"SYP	4"IWP	4"IYP	13"SWB	13"SYB	
SUBTOTALS												
UNITS	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT	100 FT

Note: For final pay totals for temporary pavement striping see stage I.

STAGE	SHEET	STATION	TO	STATION	ROADWAY	SIDE	TOTALS	UNIT	ITEM NO	DESCRIPTION

DITCHES, PAV'T MARKS, GUARDRAIL V/6

FINAL PLANS

1544 24 TO 1

STATE	JOB NO. J6I0E471 -270	SHEET NO.
MO.		3
DIST. NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	270

FINAL PLANS

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO & A PART OF THE CONSTRUCTION OF THE PROJECT.

RIGHT-OF-WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 405+65 TO STA. 431+00, A DISTANCE OF 0.480 MILES ON RTE I-270; AND FROM STA 661+55.35 TO STA 720+54.12, A DISTANCE OF 1.117 MILES ON RTE. 40.

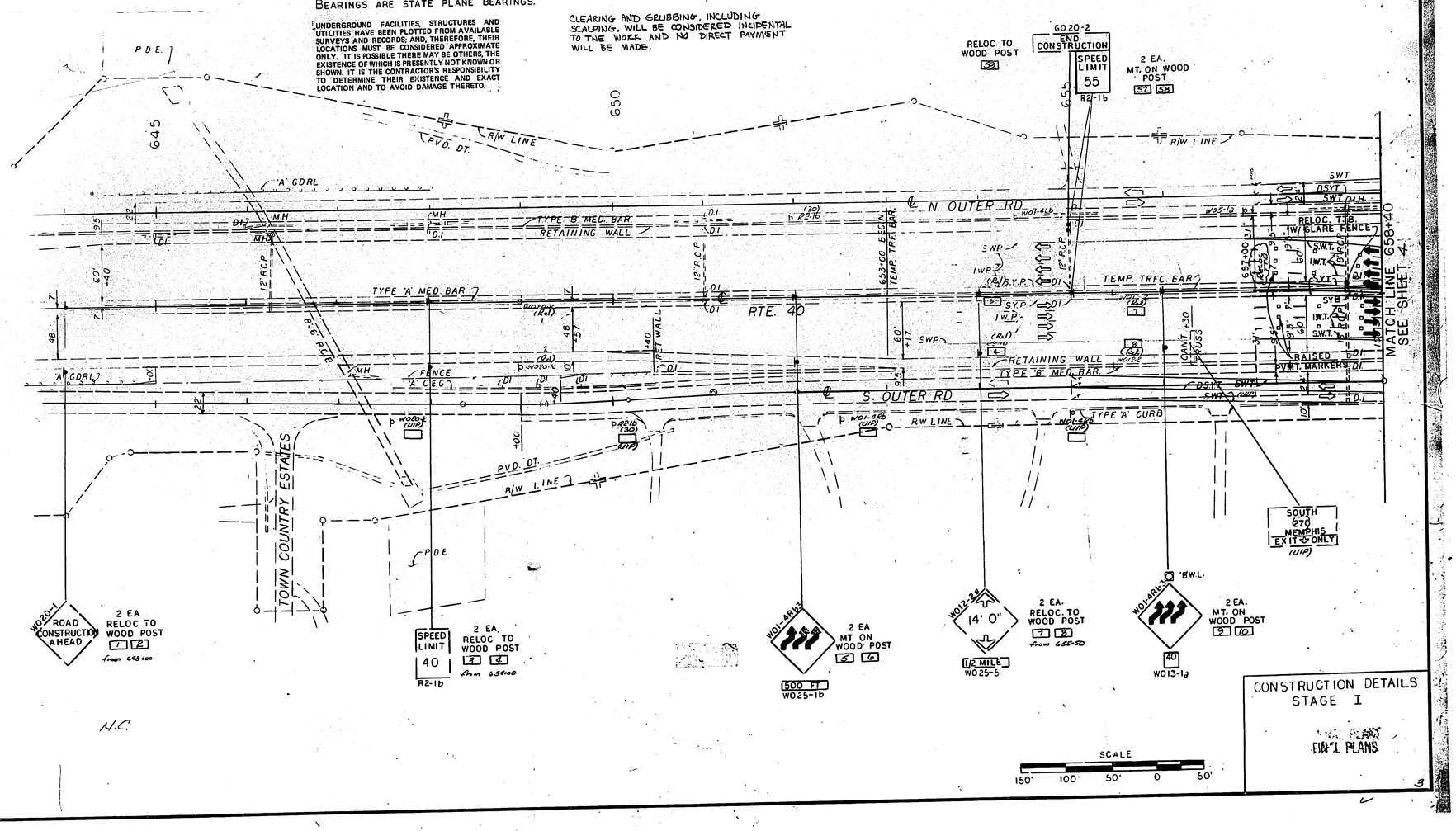
RIGHT-OF-WAY PURCHASED UNDER PROJECT 6I 647C-270.

BEARINGS ARE STATE PLANE BEARINGS.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO.

CLEARING AND GRUBBING, INCLUDING SCALPING, WILL BE CONSIDERED INCIDENTAL TO THE WORK AND NO DIRECT PAYMENT WILL BE MADE.

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO	AREAS CHECKED		



CONSTRUCTION DETAILS
STAGE I

FINAL PLANS

3

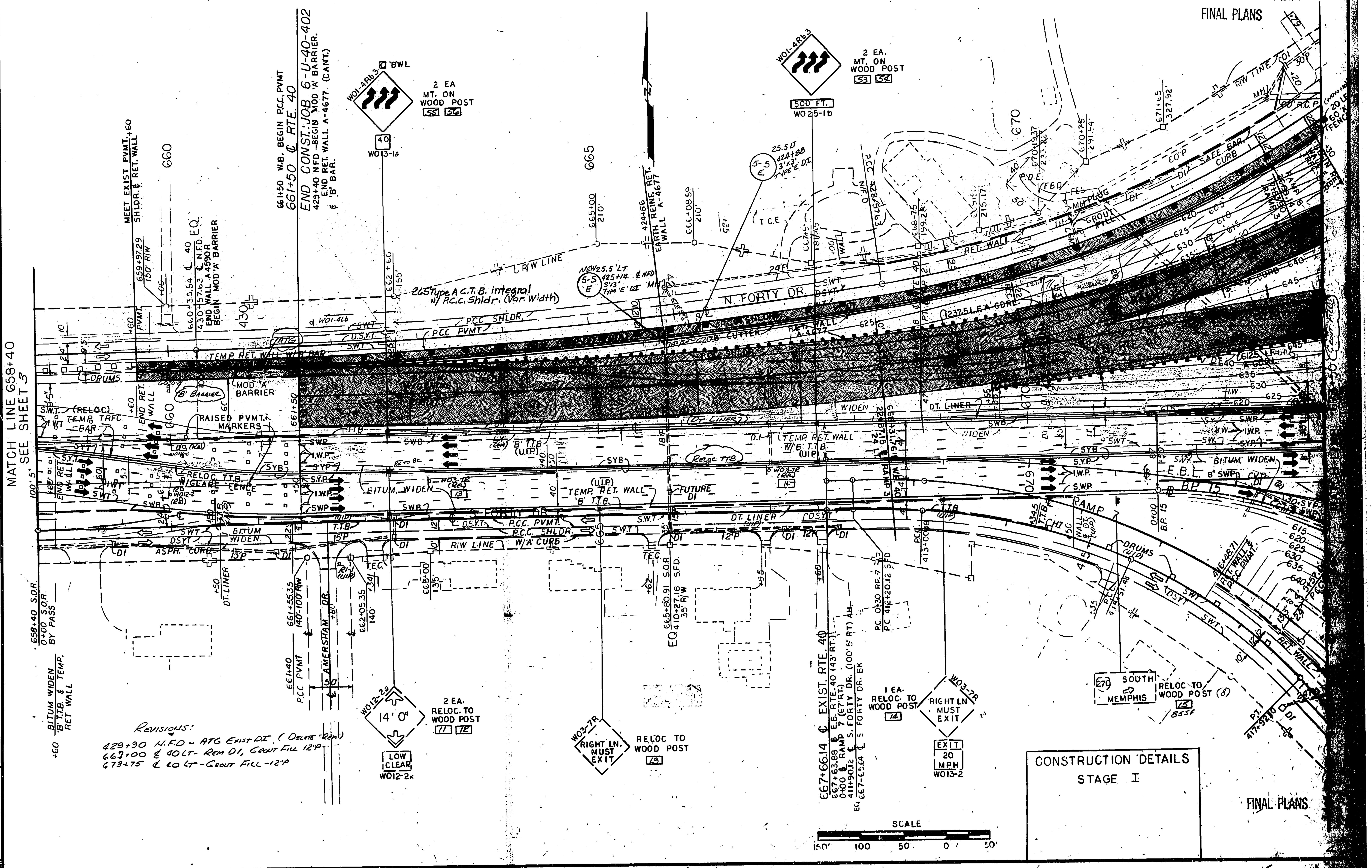
ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO	AREAS CHECKED		

48

1544 24 TO 1

STATE	JOB NO. J6I06471 -270	SHEET NO.
MO.	PROJECT NO. IR-IRG-270-5(259)	4
DIST. NO.		ROUTE
6	COUNTY ST LOUIS	270

FINAL PLANS



REVISIONS:
429+90 N.F.D ~ ATG EXIST DI. (DELETE "REM")
667+00 ℄ 40 LT - REM DI, GROUT FILL 12"P
673+75 ℄ 40 LT - GROUT FILL - 12"P

CONSTRUCTION DETAILS
STAGE I

FINAL PLANS

49

1544 24 TO 1

STATE MO.	JOB NO. JGI0647I - 270	SHEET NO. 5
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	
	COUNTY ST LOUIS	ROUTE 270

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
NO	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
NO	AREAS CHECKED		

50

SEE SHEET 13
MATCH LINE 410+00

417+06.6 ℄ I-270
682+59.01 ℄ RTE. 40
SEE SHEET 6

FINAL PLANS

MATCH LINE 425+00
SEE SHEET 14

CONSTRUCTION DETAIL
STAGE I
FINAL PLANS

SCALE
150' 100' 50' 0 50'

N/C
No Quant. Change

B.E.A. MATCH LINE 673+50 - SEE SHEET 4

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 6
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

UNCOVER SOUTH (270) TULSA (U/P) NORTH (270) CHICAGO

SEE SHEET 7 MATCH LINE 691+00

WO 4 BWL 2 EA MT ON WOOD POST 43 44

WO 21-5b SHOULDER WORK AHEAD 76

WO 13-1a 40

WO 4-3 MT ON WOOD POST 22

WO 20-9a OPEN TRENCH 81

(270) NORTH CHICAGO EXIT ONLY REM. 45

RELOCATE 12" METAL FES 28' LT 10+42 ℄ BPIIA

(U/P) WO 1-3Lb 20 MPH WO 13-1

PARKING GARAGE AND OFFICE BLDG.

(U/P) WO 1-3Lb 200 FT WO 25-2

RAMP 1 RAMP 2 RAMP 5 RAMP 7 RAMP 8 RAMP 9

BY PASS 3 BY PASS 5 BY PASS 7

℄ I-270

SEE SHEET 5 MATCH LINE

SEE SHEET 5 MATCH LINE 410+00

SEE SHEET 5 MATCH LINE 425+00

SHOULDER WORK AHEAD 70

14' 2" LOW CLEAR

ROAD NARROWS

(270) SOUTH MEMPHIS NEXT RIGHT REM. 47

RESURFACED PCC PVMT & SHLDR. 'A' TRFC BAR

CONSTRUCTION DETAILS STAGE I FINAL PLANS

SCALE 150' 100' 50' 0 50'

Revisions
27+12 Rp & Lt - Rem 4 LF 20-P
(Sta. Misc Ditches)
6+28 to 6+65 BP 5 Lt - Rem DT.
30+20 to 30+81 ~ Rp & Lt - Pvd DT
8+85 Rp 8 Lt - End Pvd Dt - Begin DT Liner.

FINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, AREAS, AREAS CHECKED, NO., DATE, BY

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, AREAS, AREAS CHECKED, NO., DATE, BY

51

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 7
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST LOUIS	

FINAL PLANS

SEE JOB 647H
MATCH LINE 130+50

SEE SHEET 6
MATCH LINE 691+00

MATCH LINE 706+00
SEE SHEET 8

MATCH LINE 123+00
SEE JOB 647H

CONSTRUCTION DETAILS
STAGE I

FINAL PLANS

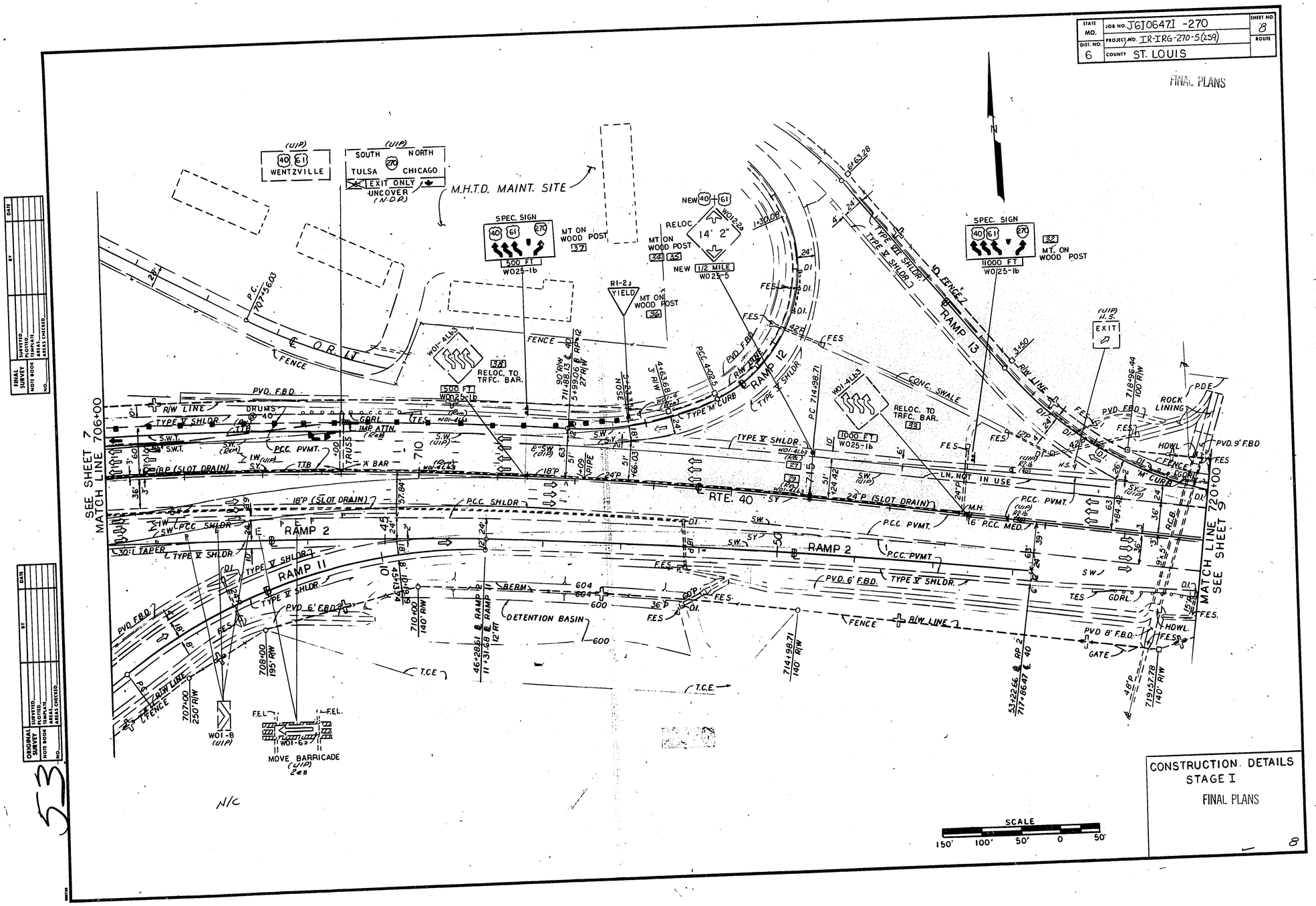
SCALE
150' 100' 50' 0 50'

DATE	BY	FINAL SURVEY	ORIGINAL SURVEY
		SURVEYED PLOTTED TEMPLATE AREAS CHECKED	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
		NOTE BOOK	NOTE BOOK
		NO.	NO.

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 8
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST. LOUIS	

FINAL PLANS



CONSTRUCTION DETAILS
STAGE I
FINAL PLANS

8

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, HOST ROAD, AREAS, AREAS CHECKED, NO., BY, DATE

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, HOST ROAD, AREAS, AREAS CHECKED, NO., BY, DATE

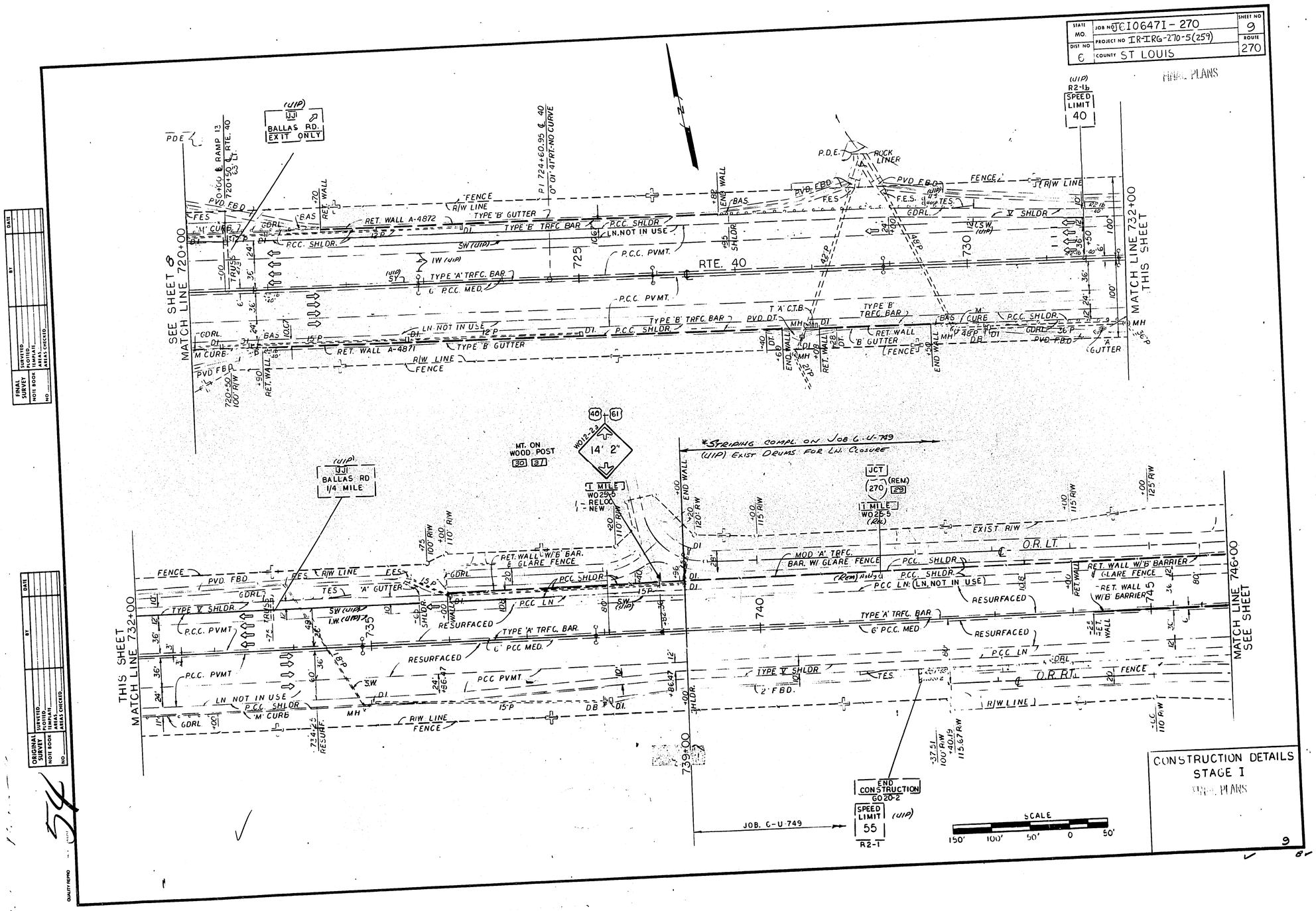
53

N/C

1544 24 TO 1

STATE MO.	JOB NO J6I0647I-270	SHEET NO 9
DIST NO 6	PROJECT NO IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS



FINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS CHECKED, NO, DATE, BY

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS CHECKED, NO, DATE, BY

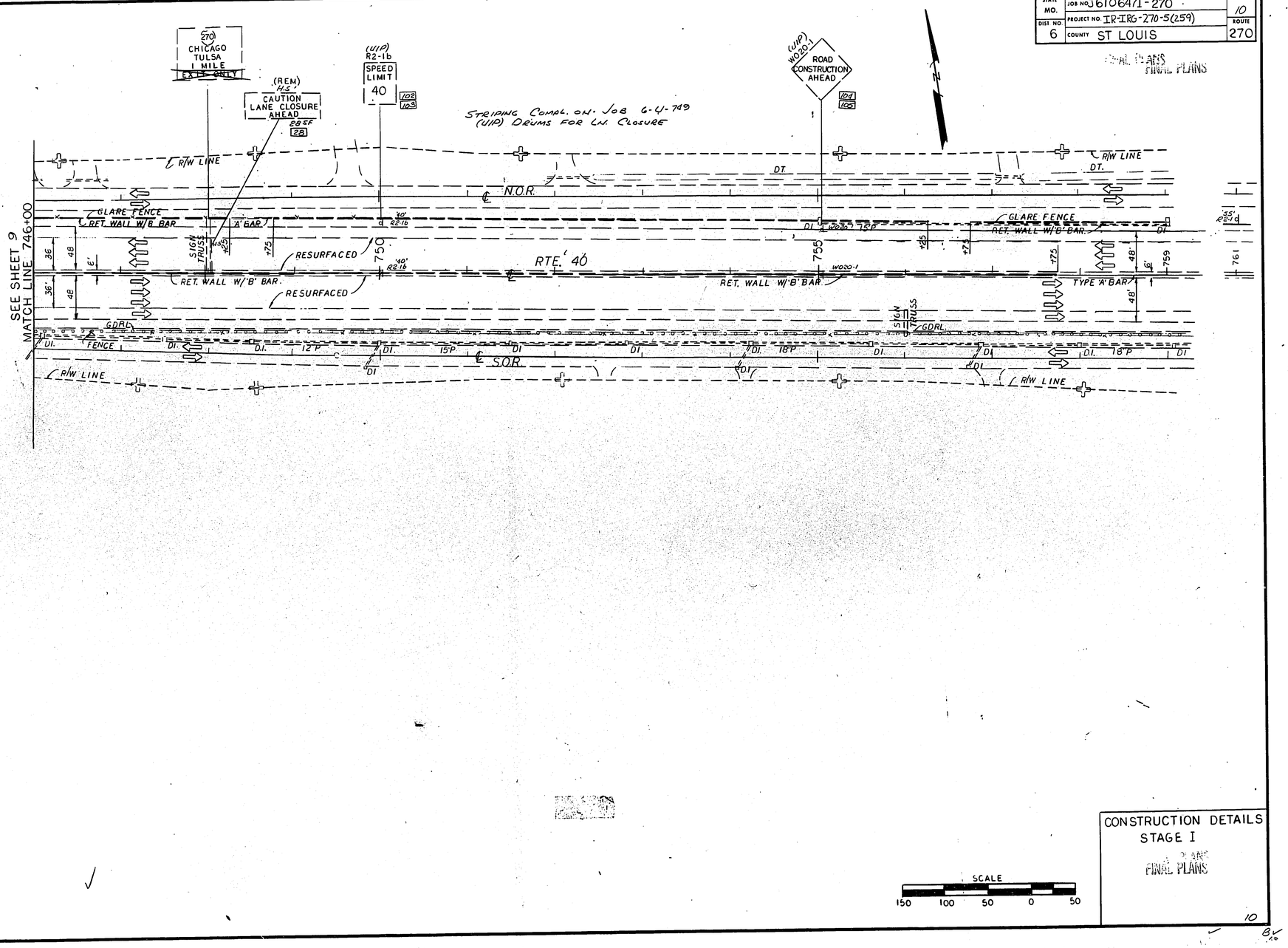
QUALITY REPRO

1544

24 TO 1

STATE MO.	JOB NO. J6106471-270	SHEET NO. 10
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS



SCALE
150 100 50 0 50

CONSTRUCTION DETAILS
STAGE I

FINAL PLANS

10

ORIGINAL SURVEY NOTE BOOK NO. | SURVEYED PLOTTED COMPARE AREAS AREAS CHECKED | BY | DATE

QUALITY REPRO

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 11
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

(U/P) GO20-2 END CONSTRUCTION

R/W LINE

+69.45 165' R/W

+00.75 147.81' R/W

+24.57 147.81' R/W

+52.24 158.33' R/W

370

375

385

390

P.T. 366+69.45

440.73 P.C.C. LN.

+25 2" STUB

(U/P) GO20-1

V SHLDR.

P.C.C. PVMT.

RESURFACED

P.C.C. PVMT. & SHLDR.

'A' MED. BAR

I-270

21" R.C.P.

18" R.C.P.

D.I.

AUX. LN

P.C.C. PVMT.

V SHLDR.

FLEXIBLE DELIN.

PVD 'V' DT

EDGE DROP OFF TREAT

EARTH BERM

SIGN TRUSS

DRUMS @ 40'

W020-1 ROAD CONST AHEAD

SPEED LIMIT 40

R2-1b

RELOC. TO WOOD POST

W020-2 SHLDR. WORK AHEAD

W001-2 OPEN TRENCH

BEGIN PCC AUX. SHLDR.

+37.47 150' R/W

+03.30 150' R/W

+35.09 167.4' R/W

+68.54 180.26' R/W

+04.98 167.26' R/W

+58.23 149.85

LN. NOT IN USE

P.C.C. PVMT.

RESURFACED

M.H.

30" R.C.P.

21" R.C.P.

TYPE V SHLDR.

937.5' (RELOC.) GDRL

PVD. 5' F.B. DT.

P.O.C.

PVD. 4' F.B. DT.

C'GDRL

T.E.S.

SW.

I.W.

S.Y.

MATCH LINE 380+00 SEE THIS SHEET

MATCH LINE 380+00 SEE THIS SHEET

Revision:
Reloc. GDRL - 937.5' LF R/W TES
179+58.5 - 188+90 ℄ 270 Rt

CONSTRUCTION DETAILS STAGE II

FINAL PLANS

SCALE 150' 100' 50' 0 50'

DATE BY

FINAL SURVEY: SURVEYED, PLOTTED, TRIPLATE, AREAS CHECKED

ORIGINAL SURVEY: SURVEYED, PLOTTED, HOR. SCALE, VERT. SCALE, AREAS CHECKED

NO.

36

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 12
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY NOTE BOOK NO.	DATE	BY	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

STA. 401 + 23.10 ℄ I-270

BEGIN FEDERAL IMPROVEMENTS AT A POINT APPROX. 770 FEET NORTH AND 1035 FEET EAST OF THE SW COR. OF THE NW 1/4 SEC. 15, T 45N, R 5E.

SEE SHEET 11 MATCH LINE 395+00

MATCH LINE SEE SHEET 13

MATCH LINE SEE SHEET 13 410+00

I-270

℄ CONWAY RD.

399+29.70 ℄ I-270 15+00 ℄ CONWAY RD.

W020-9C OPEN TRENCH

W05-12 ROAD NARROWS

RAMP 1

CONSTRUCTION DETAILS
STAGE I
FINAL PLANS

12

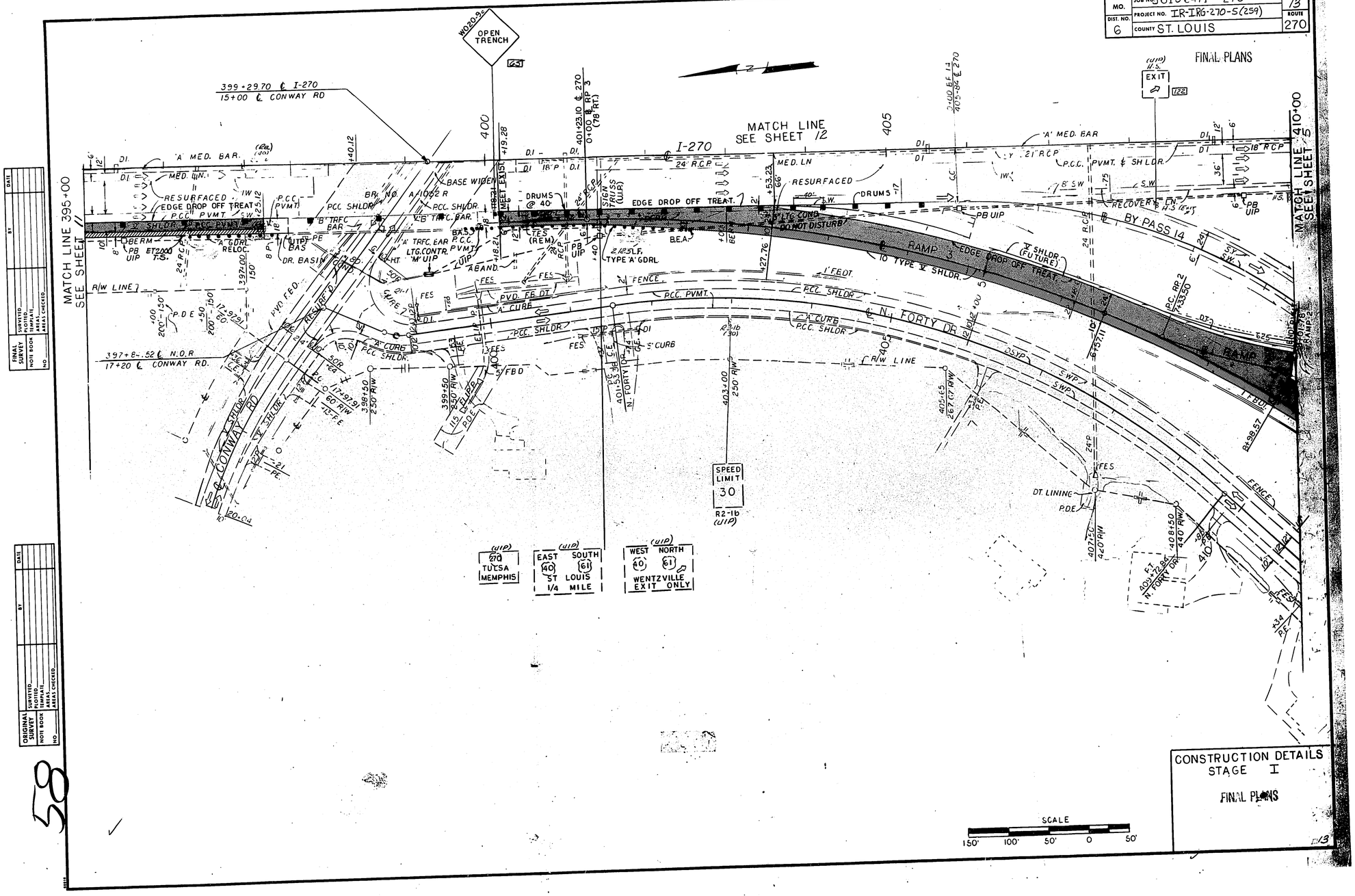
SCALE 150' 100' 50' 0 50'

ORIGINAL SURVEY NOTE BOOK NO.	DATE	BY	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 13
DIST. NO. 6	PROJECT NO. IR-IRG-270-S(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS



ORIGINAL SURVEY	SUBMITTED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
NOTE BOOK	AREAS CHECKED		
NO			

FINAL SURVEY	SUBMITTED	BY	DATE
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO	AREAS CHECKED		

59

1544 24 TO 1

STATE MO.	JOB NO. J610E471 - 270	SHEET NO. 14
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

MATCH LINE 425+00 - SEE SHEET 5

MATCH LINE - SEE SHEET 15

I-270

RAMP 7

RAMP 6

RAMP 5

FORTY DR.

JENIFER LN

NO THRU BY PASS

RESURFACED

P.C.C. PVMT. & SHLDR

P.C.C. PVMT.

P.C.C. SHLDR. W/ 'A' CURB

A FENCE

DRUMS @ 40'

18" R.C.P.

8" SWP

SWP

IWP

SIGN TRUSS

'A' MED BAR

PVD. 2' F.B. DT.

PVD. V DT.

R/W LINE

PDE

SFD PT 432+15.32 432+15.32 140 RT ℄ 270

STA 432+48.35 ℄ I-270
END FEDERAL IMPROVEMENTS AT A POINT APPROX. 304 FEET NORTH AND 781.5 FEET EAST OF THE SW CORNER, SEC. 15, T 45N, R 5E.

OPEN S.B. 270 AUX. LN. TO TRFC.
REM. EXIST. SWP.
PLACE SWP & IWP STA. 432+48.35 TO 455+50 I-270 RT.

(UIP) G020-2 END CONSTRUCTION

(UIP) W01-4LB

(UIP) W01-4LC

(UIP) R2-1b SPEED LIMIT 30

(UIP) W20-1 ROAD CONSTRUCTION AHEAD

(UIP) W25-2 200 FT

SCALE 150' 100' 50' 0 50'

CONSTRUCTION DETAILS
STAGE I
FINAL PLANS

14

ORIGINAL SURVEY / FINAL SURVEY — DATE — BY — SUBMITTED — PLOTTED — TEMPLATE — NOTE BOOK — PAGE — AREAS CHECKED — NO

1544 24 TO 1

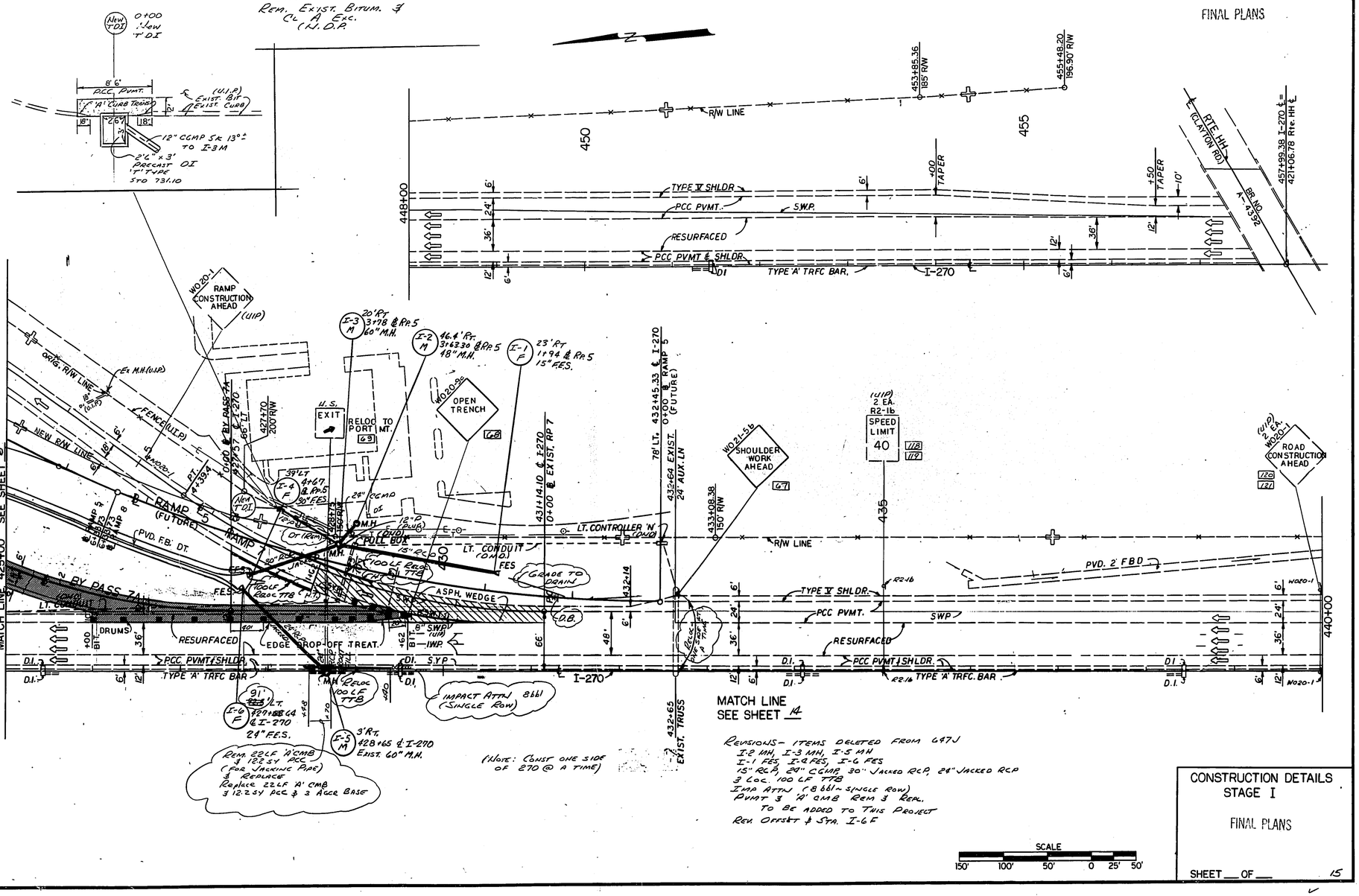
STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 15
DIST. NO. 6	PROJECT NO. IR-IRG-270-S(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

REVISION 7/93
2 S.Y 7" NON REINF PCC. (SUMP @ D.I OPENING)
3 L.F. TYPE 'A' CURB (TRANS.)
REM. EXIST. BITUM. & CL A EXC. (N.O.R.)

FINAL SURVEY	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	TEMPLATE	BY
	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	TEMPLATE	BY
	AREAS	
NO.	AREAS CHECKED	



REVISIONS - ITEMS DELETED FROM 647J
I-2 MH, I-3 MH, I-5 MH
I-1 FES, I-4 FES, I-6 FES
15" RCP, 24" CGMP, 30" JACKED RCP, 24" JACKED RCP
3 LOC. 100 LF TTB
IMP ATTN (8 bbl - SINGLE ROW)
PVMT & 'A' CMB REM & REPL.
TO BE ADDED TO THIS PROJECT
REV. OFFSET & STA. I-6F

SCALE
150' 100' 50' 0 25' 50'

CONSTRUCTION DETAILS
STAGE I

FINAL PLANS

SHEET ___ OF ___ 15

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 16
DIST. NO. 6	PROJECT NO. IP-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

P.D.E.

645 650 655

RIGHT LANE ENDS

(C13) 6+51+90 P.C.C.M. U.S.

(U1P) END CONST.

P.V.D. DT. R/W LINE

'A' GDRL

TYPE 'B' MED. BAR. RETAINING WALL

TYPE 'A' MED. BAR

12" R.C.P.

F.A.P. 3 (RELOC.)

RET WALL

FENCE 'A' C.L.F.

6+33.00 BEGIN TEMP. TRF. BAR.

℄ N. OUTER RD.

℄ RTE. 40

DRUMS @ 40' (17ea)

TEMP. TRFC. BAR.

℄ S. OUTER RD.

RETAINING WALL TYPE 'B' MED. BAR.

TYPE 'A' CURB

14' 0" (U1P) 2ea

1330' E.B. TAN.

660' E.B. LN. TAPER

TOWN COUNTRY ESTATES

WO20-6 (U1P) LEFT LANE CLOSED — WO25-3c — 2 ea. 90 91 — MT. ON WOOD POST

RELOC. TO WOOD POST 2ea 3 4

P.D.E. R2-1E SPEED LIMIT 40

WO20-2 (U1P) WO25-3d LEFT LANE CLOSED 84 85 MT ON WOOD POST

R2-1b SPEED LIMIT 40 2ea 86 87 MT ON WOOD POST

WO20-5 WO25-3d LT. LN. CLOSED AHEAD 2ea 88 89 MT ON WOOD POST

WO20-1 ROAD CONST AHEAD — RELOC. TO WOOD POST 1 2

WO20-5 (2ea) WO25-3d LT. LN. CLOSED AHEAD 82 83 MT ON WOOD POST

(17ea) DRUMS @ 40'

RTE 40

(38ea) DRUMS @ 80'

660' E.B. TAPER

1330' E.B. TAN.

SCALE 150' 100' 50' 0 50'

MATCH LINE 658+40 SEE SHEET 17

Revisions: Reloc Imp Attn

CONSTRUCTION DETAILS
STAGE II
FINAL PLANS

16

No Change on Stage III

FINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS, AREAS CHECKED, BY, DATE, NO.

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS, AREAS CHECKED, BY, DATE, NO.

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 17
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	SUBMITTED	DATE
	PLOTTED	
NOTE BOOK	TEMPLATE	BY
	AREAS CHECKED	
NO.		

ORIGINAL SURVEY	SUBMITTED	DATE
	PLOTTED	
NOTE BOOK	TEMPLATE	BY
	AREAS CHECKED	
NO.		

67

REVISIONS
ADD DRUMS @ 40' ALONG S.F.D.
PLACE W020-9R "OPEN TRENCH" 4/6+50 S.F.D.

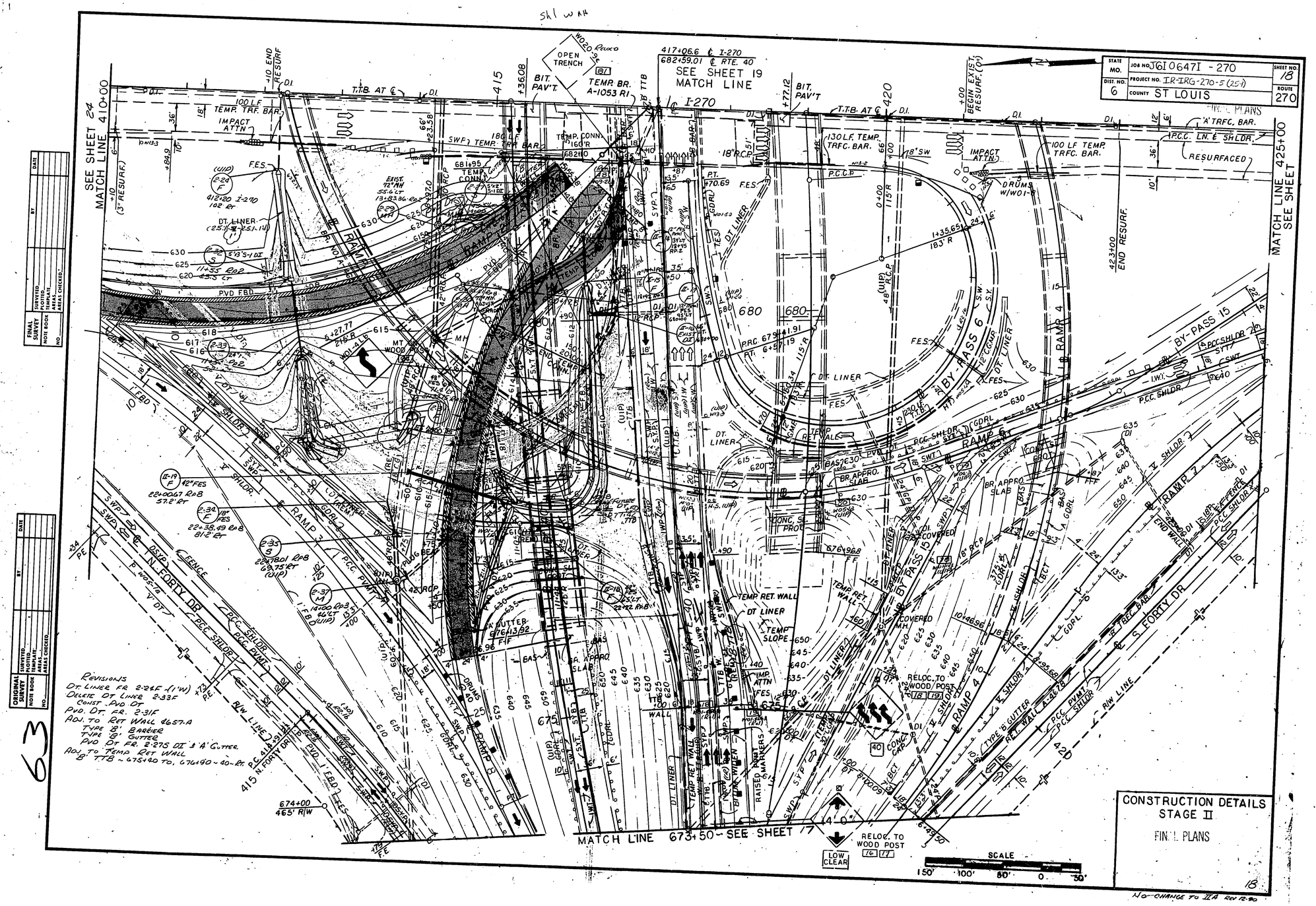
CONSTRUCTION DETAILS
STAGE II

17

FINAL PLANS

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 18
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(251)	
	COUNTY ST LOUIS	ROUTE 270



ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, NOTE BOOK, NO. — BY — DATE

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NO. — BY — DATE

Revisions
Dt. Liner fr. 2-22F-1('W)
Delete Dt Liner 2-33F
Const. Pvd Dt
Pvd. Dt. fr. 2-31F
Adj. to Ret Wall #657-A
Type 'B' Barrier
Type 'B' Gutter
Pvd Dt Fr. 2-27S Dt 'B' 'A' Gutter
Adj. to Temp Ret Wall
'B' T.T.B ~ 675+40 to, 676+90 ~ 40-Ft. Rt.

63

NO CHANGE TO IIA REV 12-90

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 19
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

SEE SHEET 20
MATCH LINE 691+00

SEE CULV. SH. FOR DETAILS

PARKING GARAGE AND OFFICE BLDG.

RELOC TO WOOD POST

RAMP 1 — RAMP 2 — RAMP 3 — RAMP 4 — RAMP 5 — RAMP 6

BY PASS 3 — BY PASS 5 — BY PASS 7A

BRIDGE A 4651 S.V.A. — BRIDGE A 4652 — BRIDGE A 4653 — BRIDGE A 4654 — BRIDGE A 4655 — BRIDGE A 4656 — BRIDGE A 1053 RI

TEMP. BRIDGE

I-270

SEE SHEET
MATCH LINE 410+00

SEE SHEET 25
MATCH LINE 425+00

RESURFACED PCC PVMT & SHLDR

CONSTRUCTION DETAILS
STAGE II
FINAL PLANS
19

REVISIONS:
RAMP 4 TEMP CONN ~ STA 26+80 (CORRECTION)
REM. 42" P ~ 12+50 RAMP 5

SCALE
150' 100' 50' 0 50'

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
	NO.		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
	NO.		

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1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 20
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(251)	ROUTE
	COUNTY ST LOUIS	

FINAL PLANS

SEE SHEET MATCH LINE 691+00

SEE JOB 647H MATCH LINE 130+50

MATCH LINE 706+00 SEE SHEET

MATCH LINE 123+00 SEE JOB 647H

RAMP 1 — RAMP 2 — RAMP 9 — RAMP 10 — RAMP 11

E.B. 40 — W.B. 40 — CONST. ℄ RTE. JJ

RET. WALL A-4679 — RET. WALL A-4656 — RET. WALL A-4788

BR. A-4586 — BR. A-4580 — BR. A-4581

PARKING LOT — FENCE — R/W LINE

R3-7R$_d$ RT LANE MUST TURN RT — R2-1b SPEED LIMIT 40 — M1-1b (New) EXIT — RIGHT LN MUST EXIT — R2-1b (20) SPEED LIMIT 40

RELOC. TO WOOD POST 75 — RELOC TO WOOD POST 46 — RELOC TO WOOD POST 73 — RELOC TO WOOD POST 74 — RELOC TO WOOD POST 24 25 — RELOC TO WOOD POST 26 27

MT ON WOOD POST 38 — MT ON WOOD POST 37 — MT ON WOOD POST 100 — MT ON WOOD POST 101

700+29.28 ℄ RTE 40 = 127+48.34 ℄ RTE JJ

700+46.31 ℄ E.B. 40 = 127+09.34 ℄ RTE. JJ

700+46.83 ℄ W.B. = 127+87.34 ℄ JJ

675+73.42 ℄ W.B.L. = 0+00 ℄ RAMP 1-24LT

MEET RP. 2 PVMT. 697+63 ℄ RTE. 40
P.T. 697+80.34 ℄ E.B. 40 (39' RT.)
P.T. 33+12.27 ℄ RAMP 2 (83' RT.)
BEGIN P.C.C. PVMT.-RP2

35+77.88 ℄ RAMP 2 = 126+65.34 ℄ RTE. JJ

13+33.97 ℄ RAMP 9 = 124+24.36 CONST. ℄

123+00 ℄ RTE. JJ = 123+00 CONST. ℄ RTE. JJ (18' LT.)

124+75.77 ℄ JJ = 6+52.78 ℄ RP 10

124+25 ℄ JJ = 0+18.28 ℄ RP 11

DETOUR JJ BALLAS RD 1 MILE

SIGNALIZED INTERSECTION

REV. 2° CV. W.B.L.

2"x40" LT. COND.

TRUSS ℄ 10 (U/P)

ASPH. RESURF.

SEE SPECIAL SHEET FOR DETAILS OF PARTIAL REMOVAL OF EXIST WALL

LN. ENDS MERGE W025-3b-LEFT

W09-2R2

W01-4R3

W01-3-1a

Revisions:
PVD 'V' DT - END OF WALL A-4656 TO 7+75 RP 9
Type 'B' Gutter ~ 4+56 to 8+65.6 R.L.R. See Chart - RT
PVD 'V' DT ~ to 28+62 RP2-LT
PVD 2' FBD

Revision - 5 Jan. 1993
25+23 to 29+23 - RP 2 LT ET 2000, 350' A GORL, BAS
33+12 RP 2 RT - ET 2000

RAMP 9 STA	OFFSET	R ELEV WALL A-5147
6+56	19'10½"	
6+73.8	20'	655.66
6+96.5	20.25'	655.88
7+12	20.75'	656.10
7+30.5	21.25'	656.21
7+43.5	21.75'	656.30

RAMP 9 STA	OFFSET	R ELEV
7+73.5	22.5'	656.56
7+91	23.0'	656.71
8+09'	23.25'	656.90
8+26.4	23.5'	657.10
8+45.8	24.0'	657.33
8+65.6	24.75'	657.63

B' Gutter Offsets - Wall A-5147 to A-4788

SCALE 150' 100' 50' 0 50'

CONSTRUCTION DETAILS STAGE II

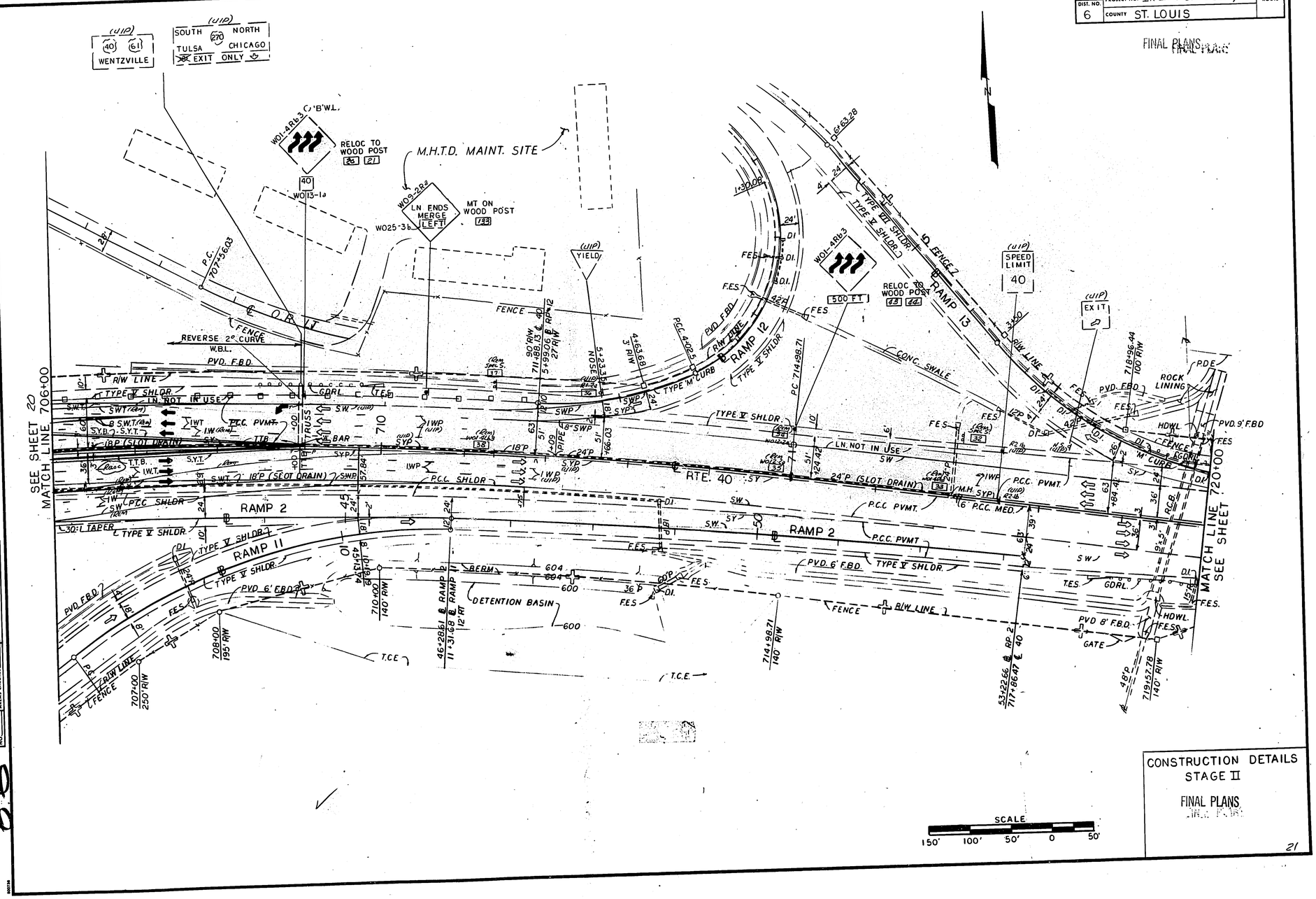
FINAL PLANS

20

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 21
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST. LOUIS	

FINAL PLANS



CONSTRUCTION DETAILS
STAGE II

FINAL PLANS

21

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS CHECKED, NO., BY, DATE

FINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS CHECKED, NO., BY, DATE

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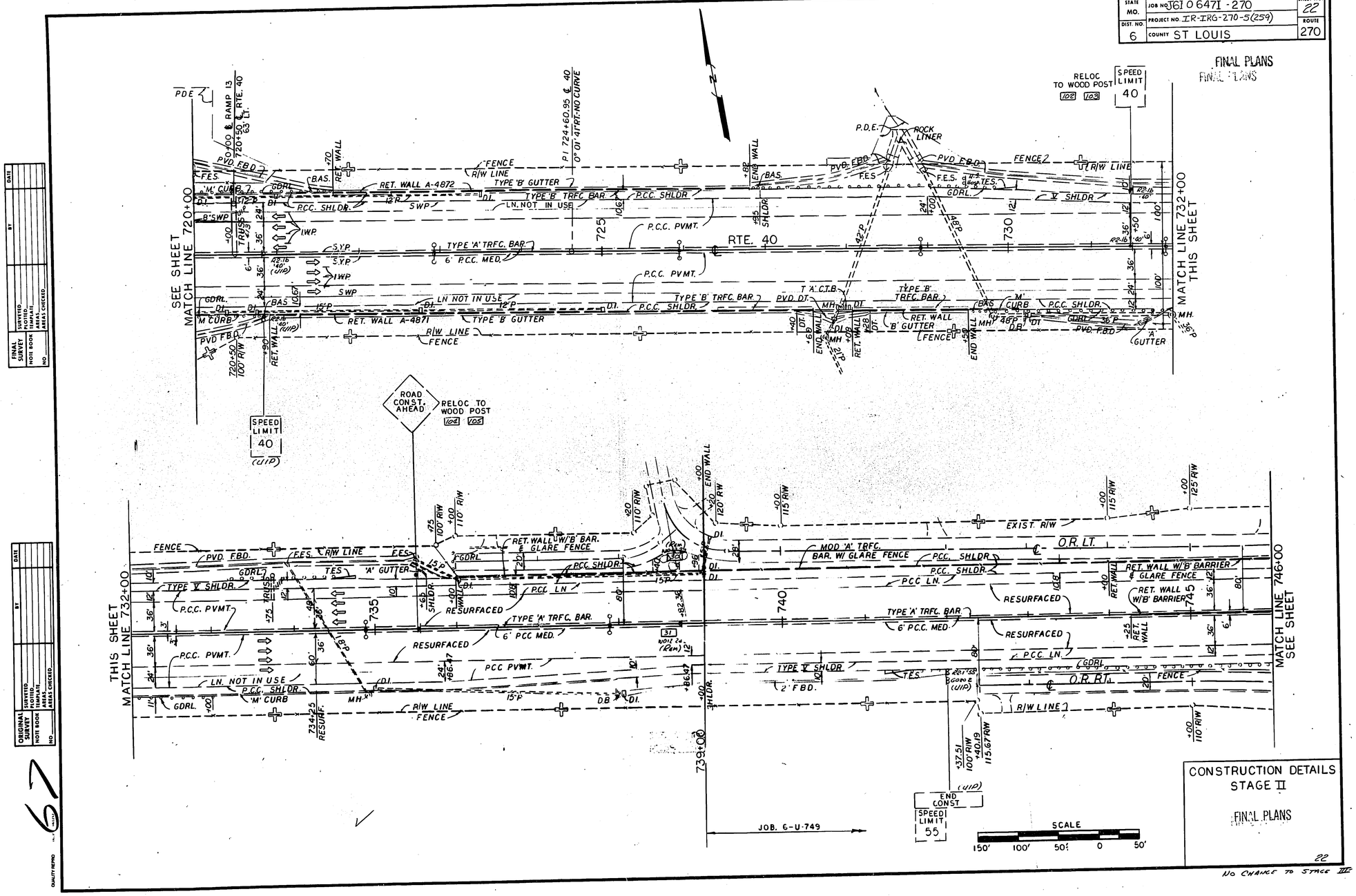
1544 24 TO 1

STATE MO.	JOB NO. J6I 0647I - 270	SHEET NO. 22
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS



CONSTRUCTION DETAILS
STAGE II

FINAL PLANS

22

NO CHANGE TO STAGE III

1544

24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 23
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

SEE SHEET MATCH LINE 746+00

R/W LINE
℄ N.O.R.
DT.
GLARE FENCE
RET. WALL W/B BAR
'A' BAR
SIGN TRUSS
RESURFACED
RTE. 40
RET. WALL W/'B' BAR.
TYPE 'A' BAR
GDRL
FENCE
DI.
12"P
15"P
18"P
℄ S.O.R.
36"
48"
6"
750
755
759
761
775
(R-1) W220-1
22-16
(2-1)
102
103
104
105
35' R-1-9

542
SPEC SIGN #2
DETOUR
BALLAS RD.
MT. ON CAN'T. TRUSS
107
EXIT 27
SPOEDE RD.
EXIT ONLY

(UIP)
BALLAS RD. 1/2
I-270
MASON RD 2 3/4

(UIP)
270
CHICAGO
TULSA
1 MILE
EXIT ONLY
FUTURE

(UIP) R1-1
STOP
3 WAY R1-5
114
114 MT ON WOOD POST
113
STOP R1-1
3 WAY

N. OUTER RD.
RAMP 1
RAMP 2
RAMP 3
RAMP 4
S. OUTER RD.
SPOEDE RD.
770
775
780
300'

SPEC SIGN #3
DETOUR
BALLAS RD.
MT ON WOOD POSTS
109 110

SPEC SIGN #3
DETOUR
BALLAS RD.
MT ON WOOD POSTS
108

(UIP) R1-1
STOP
3 WAY R1-5
111
R1-1
STOP
3 WAY
MT ON WOOD POST
112 115

SCALE
150 100 50 0 50

CONSTRUCTION DETAILS
STAGE II
FINAL PLANS
23
NO CHANGE TO STAGE III

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREA, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREA, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

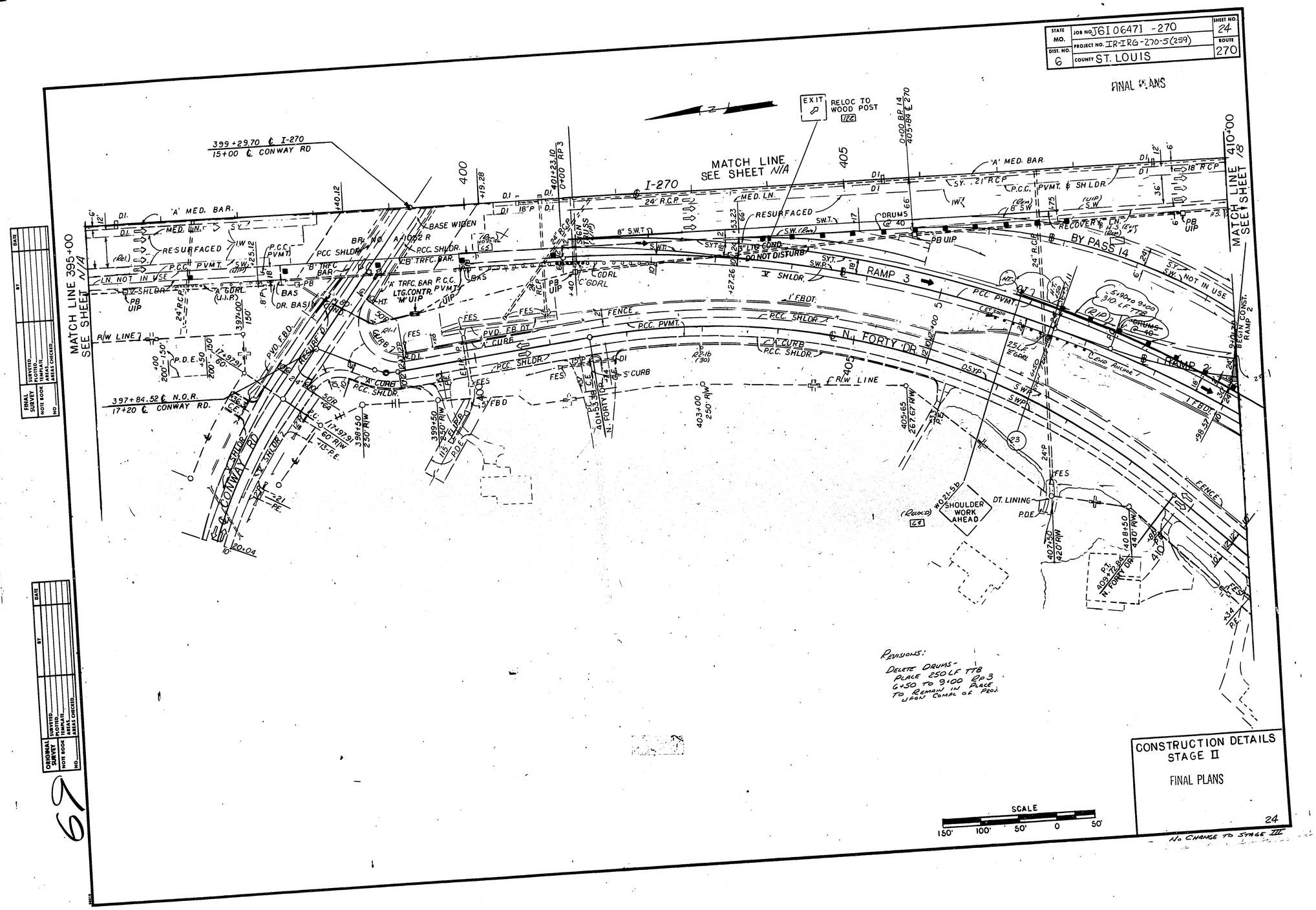
QUALITY PRINTS

68

544 24 TO 1

STATE MO.	JOB NO. JGI 06471 -270	SHEET NO. 24
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS



REVISIONS:
DELETE DRUMS -
PLACE 250 LF TTB
G450 TO 9100 RP 3
TO REMAIN IN PLACE
UPON COMPL OF PROJ.

CONSTRUCTION DETAILS
STAGE II

FINAL PLANS

24

NO CHANGE TO STAGE III

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TAPE FT.		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TAPE FT.		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

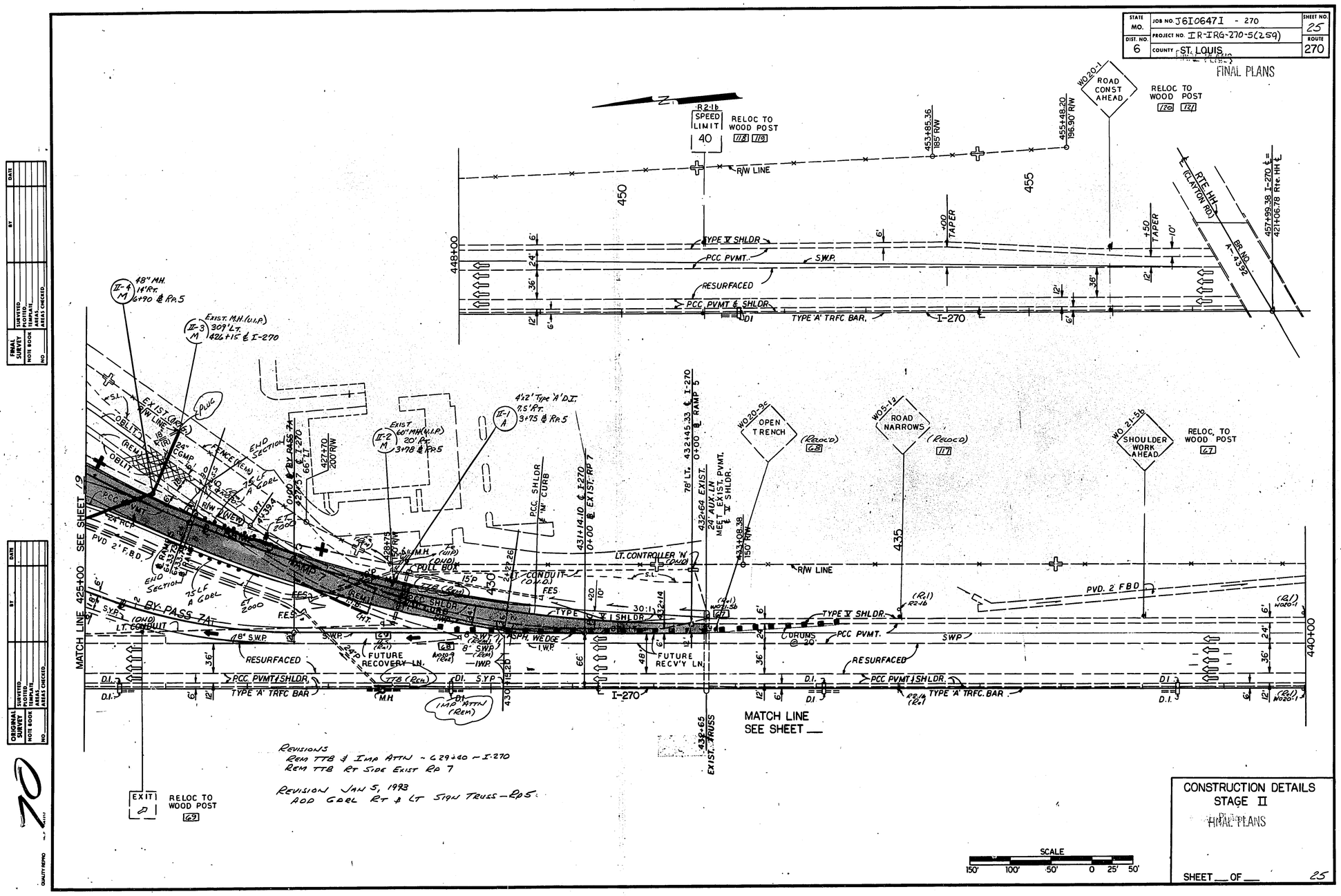
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 25
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
PAGE	
AREAS	
NO	AREAS CHECKED

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
PAGE	
AREAS	
NO	AREAS CHECKED



Revisions
Rem TTB & Imp Attn ~ L 29+40 ~ I-270
Rem TTB Rt Side Exist Rp 7

Revision Jan 5, 1993
Add Goel Rt & Lt Sign Truss - Rp 5

SCALE
150' 100' 50' 0 25' 50'

CONSTRUCTION DETAILS
STAGE II
FINAL PLANS

SHEET ___ OF ___ 25

19

1544 24 TO 1

STATE MO.	JOB NO. JG10647I - 270	SHEET NO. 26
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

SEE SHEET N/A MATCH LINE 410+00

MATCH LINE 425+00 SEE SHEET N/A

417+06.6 ℄ I-270
682+59.01 ℄ RTE. 40

I-270

BY-PASS 15

RAMP 1

RAMP 2

RAMP 3

RAMP 4

RAMP 5

RAMP 6

RAMP 7

N. FORTY DR.

S. FORTY DR.

100 LF TEMP. TRF. BAR.

180 LF TEMP. TRF. BAR.

130 LF TEMP. TRFC. BAR.

IMPACT ATTN.

DRUMS

DRUMS w/W01-8

SHLDR. WORK AHEAD

LEFT LN MUST EXIT

500 FT

MT. ON WOOD POST

NORTH 270 40 61

P.C.C. LN. & SHLDR. RESURFACED

BIT. PAV'T.

TEMP. BR. A-1053 R1

T.T.B. AT ℄

DT. LINER

TEMP. RET. WALL

TEMP. SLOPE

CONSTRUCTION DETAILS
STAGE III

FINAL PLANS

SCALE
150' 100' 50' 0 50'

MATCH LINE 673+50 -- SEE SHEET N/A

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 27
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

REVISIONS:
REM. DT. 6874.10 ~ 691+25 RTE 40, RT.
REM. TEMP SHORING - RP 5 - LT.
REM. 42"P ~ 12+50± - RP 5 - LT.
DT LINER 20+45 RP 2 - RT (III-3F)
PVD DT 12+00 RP 8 - RT (I-10F)
ASPH WEDGE 20+50 ~ 21+67 RP 2
ASPH WEDGE 684+00 ~ 684+50 - 40 - EBL
RAISED PVMT MARKERS - 685+00 - 688+00 RTE 40 ~ EBL
PVD. DT. 12+35 - 12+85, RP 8, LT
PCC SHLDR, 8' BARRIER & 2' GUTTER 19+00 ~ 15+00, & RP 8 - LT, ADJ. TO RET WALL A-6571.
RELOC IMP ATTN ~ 684+50 ~ 40 - LT
REM 72LF 18"P, 162 LF 24"P, 57 LF 48"P
REM 2#8 DI ~ 20+50 RP 2 TO 21+10 RP 5

FINAL SURVEY	SURVEYED	BY
	PLOTTED	
	NOTE BOOK	
	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	DATE

ORIGINAL SURVEY	SURVEYED	BY
	PLOTTED	
	NOTE BOOK	
	TEMPLATE	
NO.	AREAS CHECKED	DATE

SEE SHEET 3/ MATCH LINE 410+00

SEE SHEET MATCH LINE 691+00

MATCH LINE 425+00 SEE SHEET 32

MATCH LINE SEE SHEET 26

℄ I-270

℄ R/W LINE

RAMP 1

RAMP 2

RAMP 3

RAMP 4

RAMP 5

BY PASS 3

BY PASS A

PARKING GARAGE AND OFFICE BLDG.

REM TEMP SHORING

OPEN TRENCH

MT ON WOOD POST

MT ON WOOD POSTS

LEFT LN MUST EXIT

BRIDGE A 4651

BRIDGE A 1053 R1

TEMP BRIDGE

RESURFACED PCC PVMT & SHLDR. W TRFC BAR

Rp 8 DELETE PCC PVMT, 3" BIT. PVD DT & 3' I. SHLDR (Rt) 2+02 TO 5+05.5 DELETE E SHLDR(LT) 13+75 TO 15+00.5

Rp 2 - DELETE PVMT & Rt SHLDR 18+44 TO 19+00

4 May 92

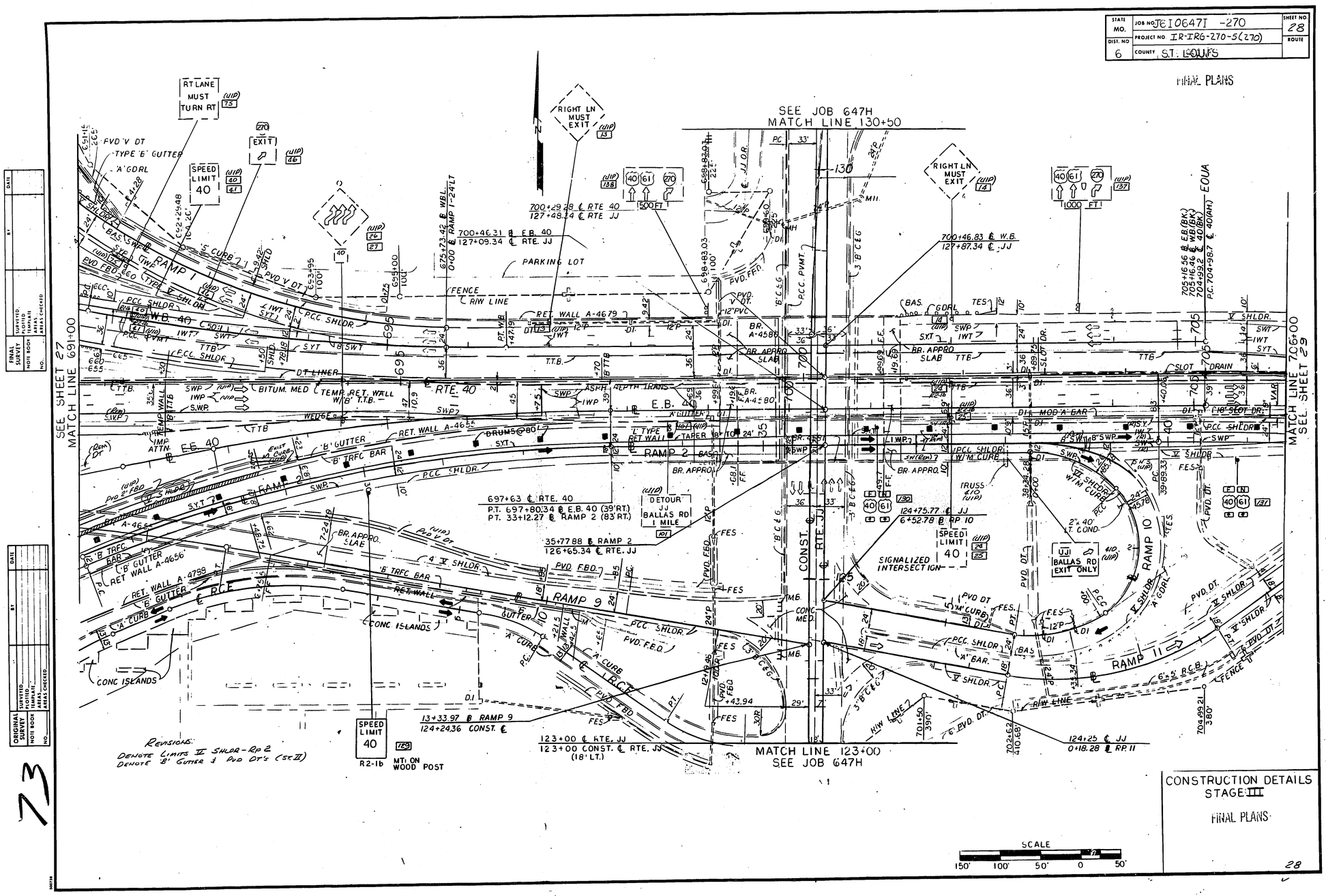
SCALE 150' 100' 50' 0 50'

CONSTRUCTION DETAILS STAGE III.

27

STATE MO.	JOB NO. JE I0647I -270	SHEET NO. 28
DIST. NO 6	PROJECT NO. IR-IRG-270-5(270)	ROUTE
	COUNTY ST. LOUIS	

FINAL PLANS



CONSTRUCTION DETAILS
STAGE III

FINAL PLANS

28

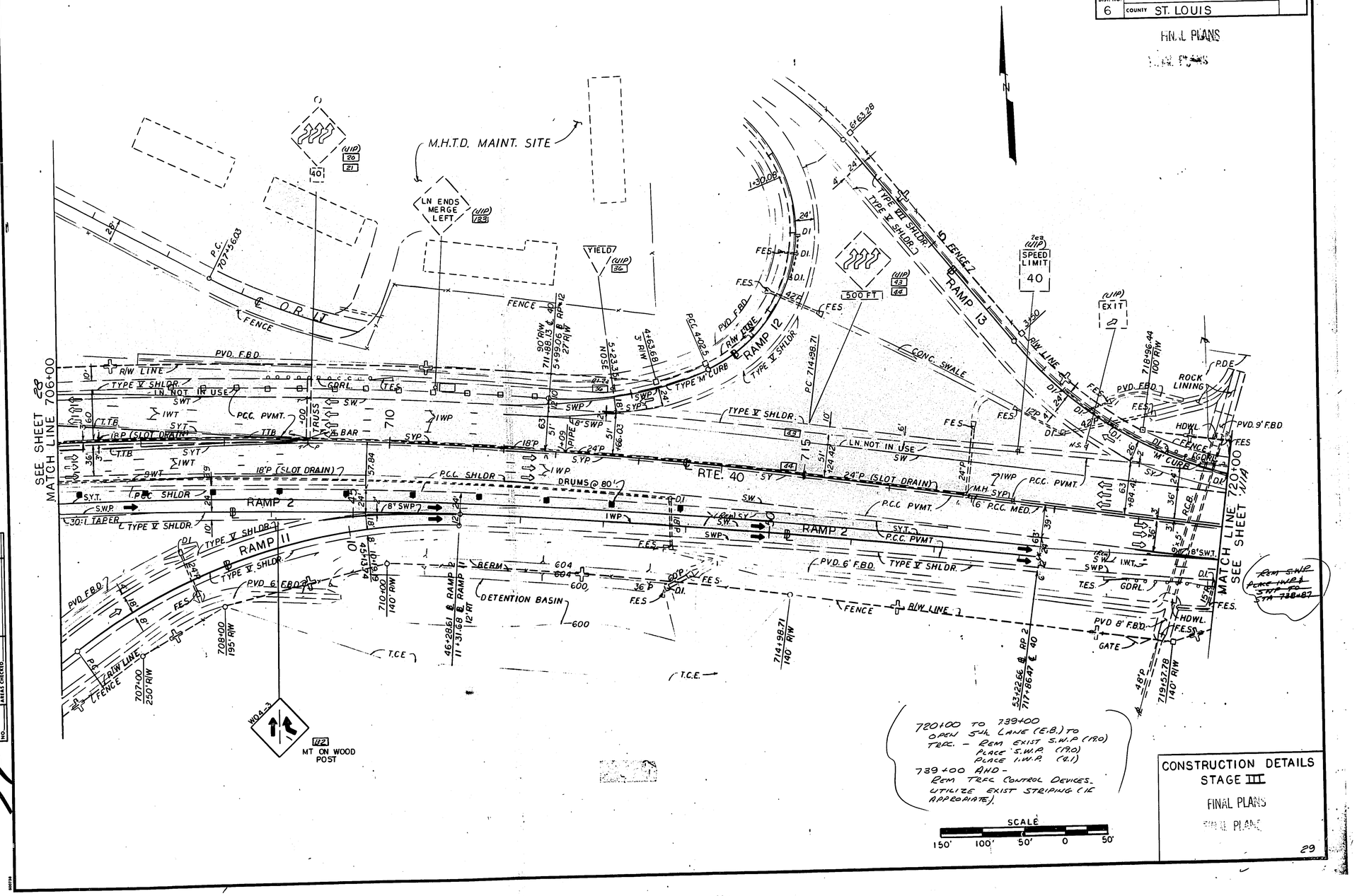
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 29
DIST. NO. 6	PROJECT NO. IR-IRG-270-S(270)	ROUTE
	COUNTY ST. LOUIS	

FINAL PLANS

SURVEY: SURVEYED / PLOTTED / NOTE BOOK / TEMPLATE / AREAS CHECKED / NO. / DATE / BY

ORIGINAL SURVEY: SURVEYED / PLOTTED / NOTE BOOK / TEMPLATE / AREAS CHECKED / NO. / DATE / BY



CONSTRUCTION DETAILS
STAGE III
FINAL PLANS

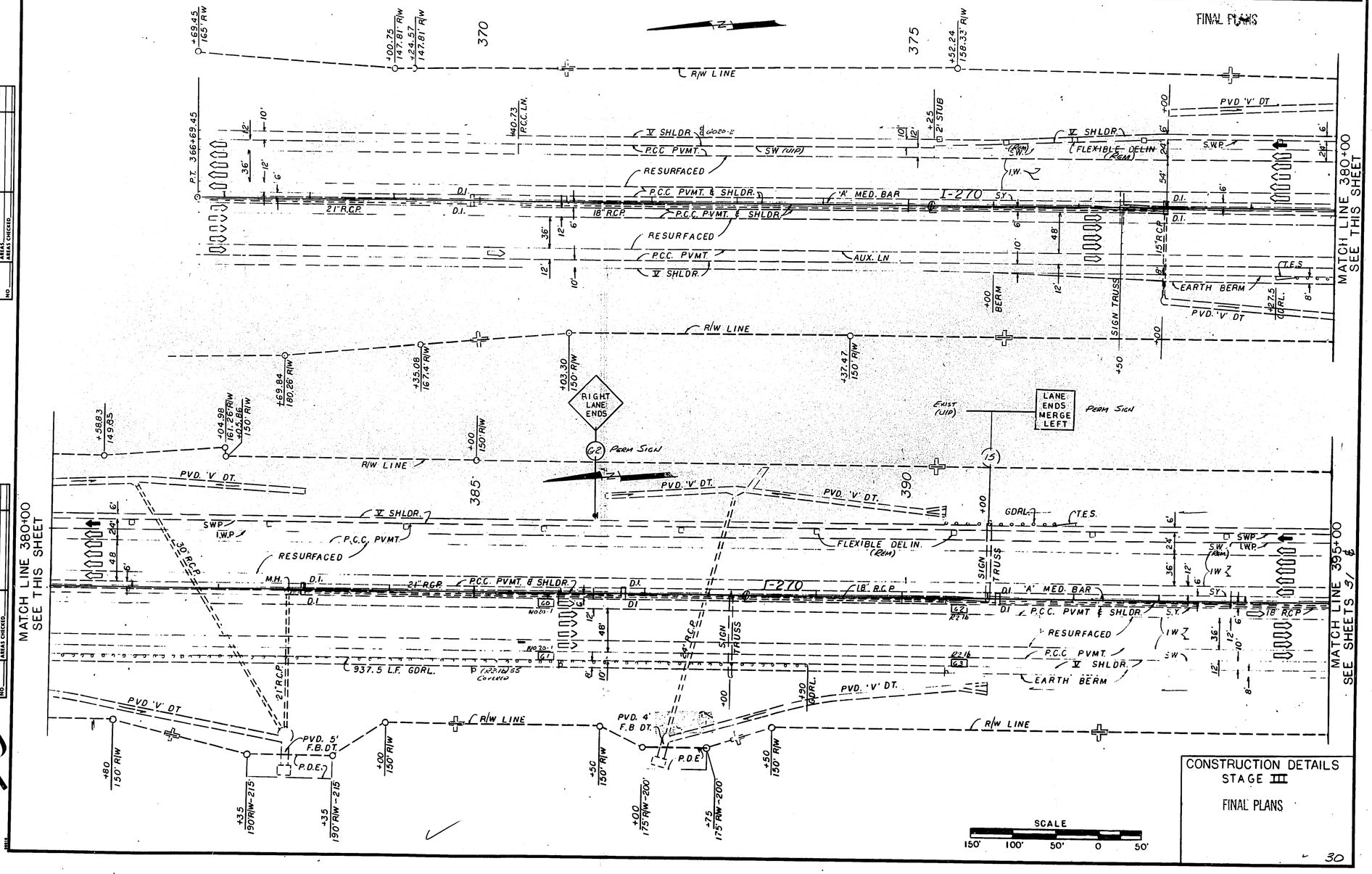
29

1344 24 TO 1

STATE MO.	JOB NO. J10C471 - 270	SHEET NO. 30
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



CONSTRUCTION DETAILS
STAGE III

FINAL PLANS

30

1544 24 TO 1

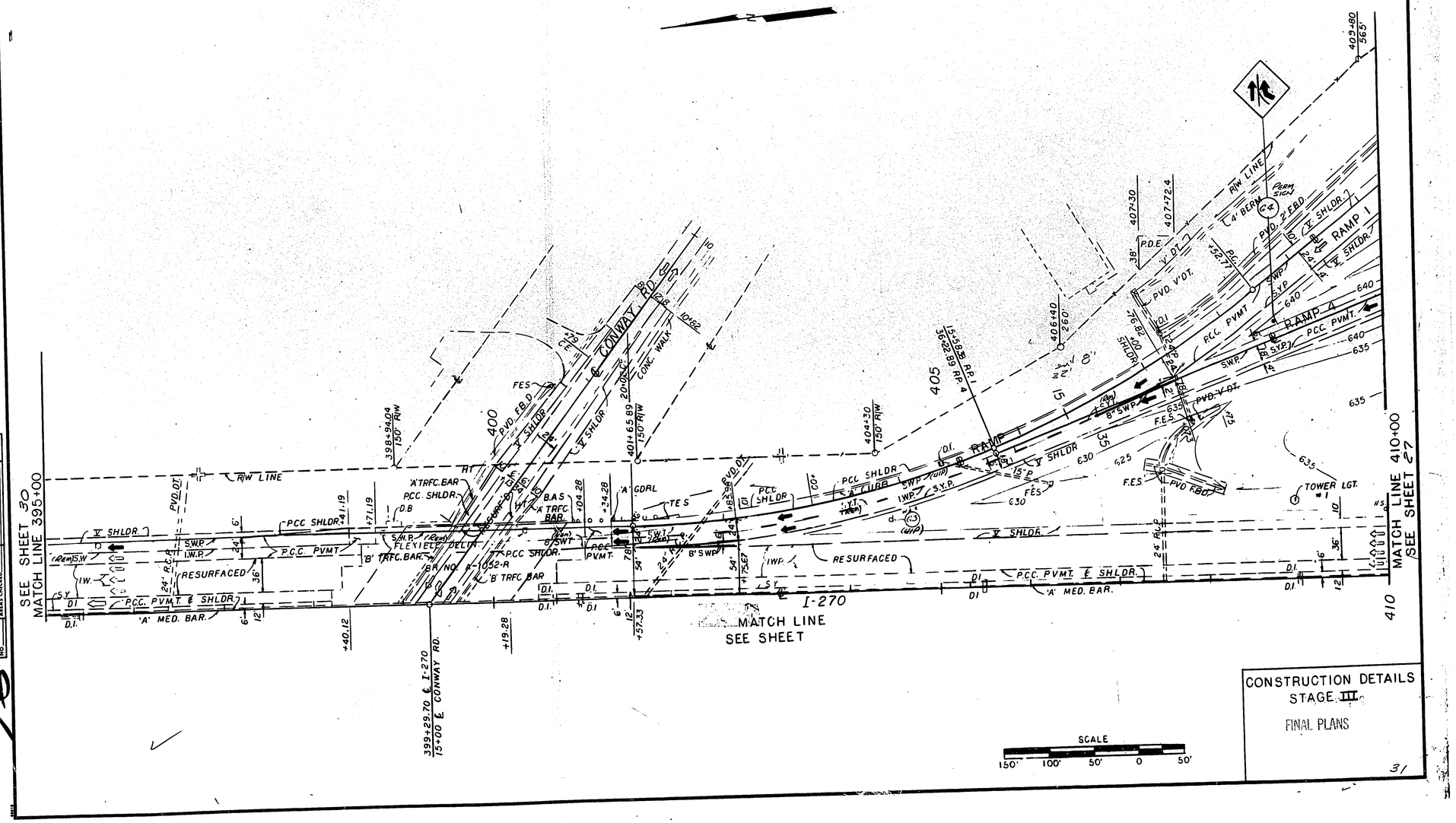
STATE MO.	JOB NO. JGID647I - 270	SHEET NO. 31
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

76



CONSTRUCTION DETAILS
STAGE III
FINAL PLANS

31

1544

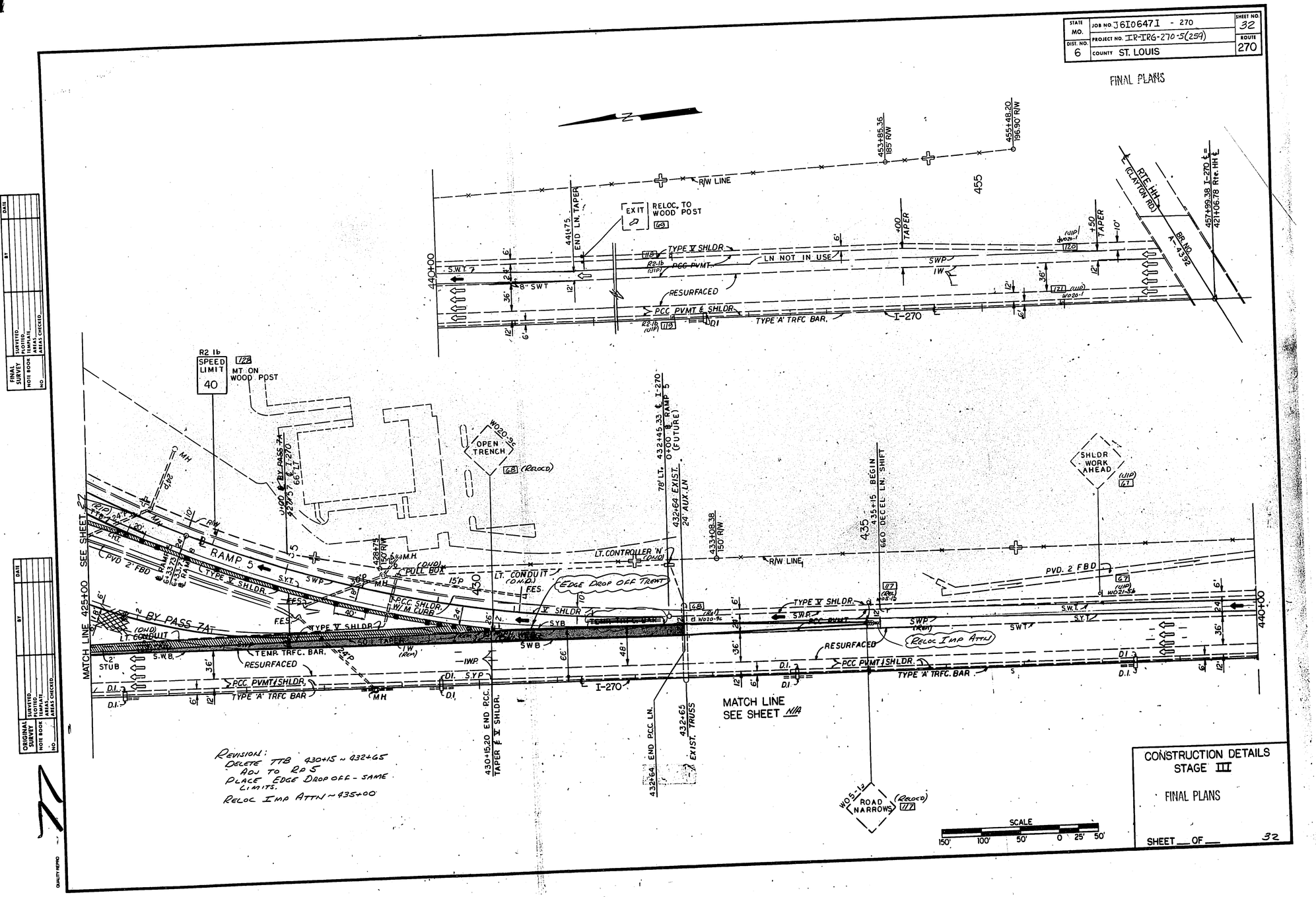
24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 32
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, SHEET, NO., DATE, BY

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, NOTE BOOK, SHEET, NO., AREAS CHECKED, DATE, BY



Revision:
Delete TTB 430+15 ~ 432+65
Adj to Rp 5
Place Edge Drop off - same limits.
Reloc Imp Attn ~ 435+00

CONSTRUCTION DETAILS
STAGE III

FINAL PLANS

SHEET ___ OF ___ 32

QUALITY REPRO

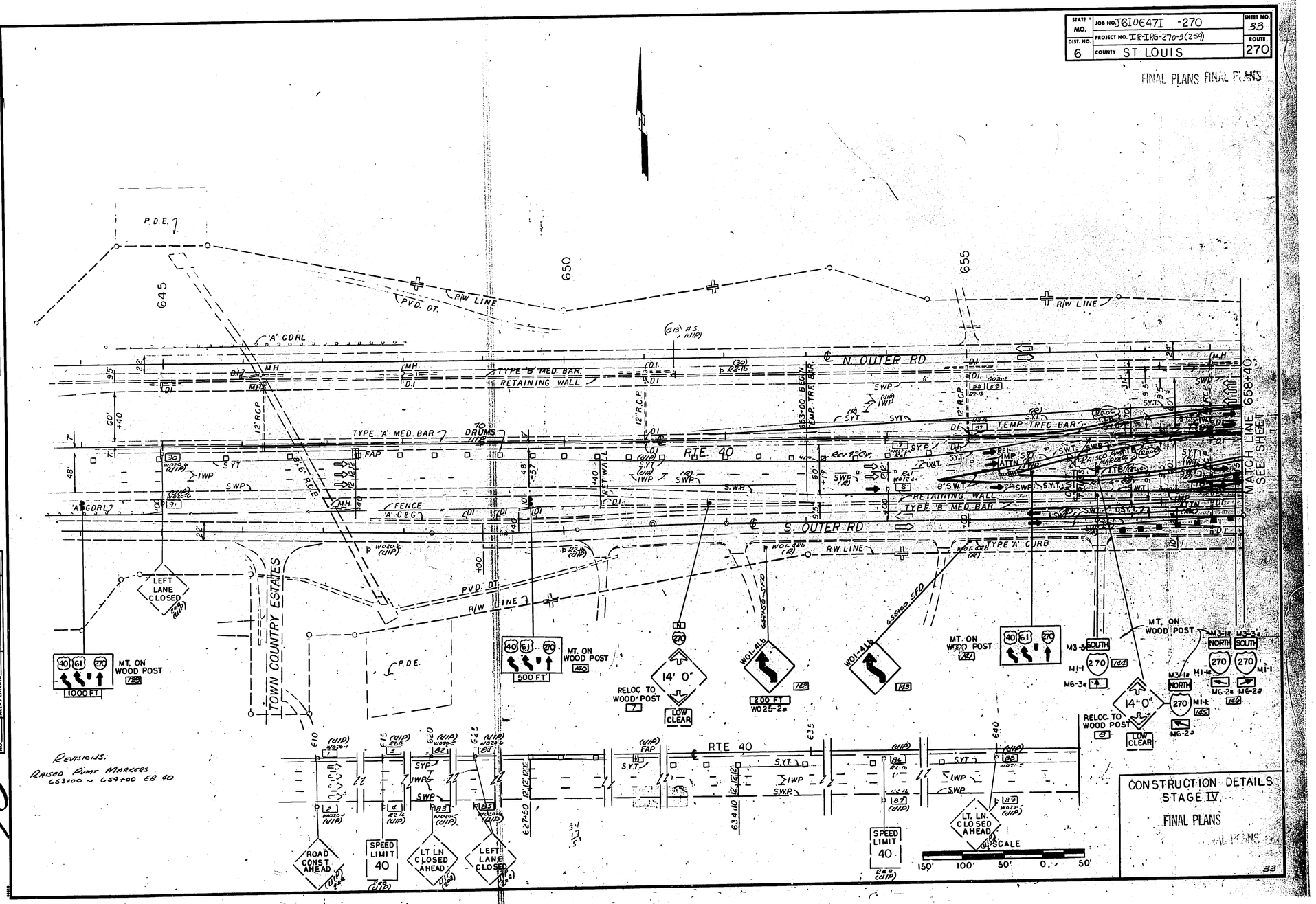
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 33
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK	TEMPLATE	
	NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK	TEMPLATE	
	NO.	AREAS CHECKED	



Revisions:
Raised Pvmt Markers
633+00 ↘ 639+00 EB 40

CONSTRUCTION DETAILS
STAGE IV
FINAL PLANS

33

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 34
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259) FINAL PLANS	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	DATE
PLOTTED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	BASIS
DRAWN	BY
PLOTTED	
NOTE BOOK	
NO.	

MATCH LINE 658+40 SEE SHEET 33

MATCH LINE 673+50 SEE SHEET 35

661+50 ℄ RTE. 40 END CONST. JOB 6-U-40-402

660 | 665 | 670

659+97.29 150' RW

660+35.54 ℄ 40 430+57.63 ℄ N.F.D. EQ.

662+60 1.55' RW

666+08.59 210'

663+00 210'

667+15 181.48'

668+76 199.28'

669+50 215.17'

670+37 233.32'

670+75 291.94'

671+65 327.92'

L R/W LINE

24" CMP

M.H. 47

T.C.E.

FES

PCC. SHLDR.

PCC. PVMT.

"B" TRFC. BAR.

RET. WALL

SWP

DSYP

DI

MOD. A BAR.

W B RTE 40

E B RTE 40

DRUMS @ 40'

EDGE DROP OFF TRENT

TEMP. SHORING W/ "B" TTB.

TEMP. RET. WALL W/ "B" TTB.

N. FORTY DR.

S. FORTY DR.

RAMP 3

RAMP 4

TYPE "B" GUTTER

TYPE V SHLDR.

P.C.C. SHLDR. W/M. CURB

8" SWT 7

SYT

IWT

GDRL

DT LINER

SAFE. BAR

CURB

WT ON WOOD POST 140

LN ENDS MERGE RIGHT

W09-2R

SPEED LIMIT 40 R2-1b

SPEED LIMIT 40 142

SPEED LIMIT 40 15C

WOOD POST 148 149

RELOC TO WOOD POST 94

W01-4Lb

OPEN TRENCH W20-1a 74 (Reloc'd)

PVD APPRO. 5' BITUM. ENT. DO NOT TYP @ a time TO ALLOW ACCESS

ASPH. APPR. (REM'D)

P.C.C. SHLDR W/ "A" CURB

BEGIN P.C.C. PVMT. +40 S.F.D.

661+40 P.C.C. PVMT.

ABERSHAM DR. +80'

662+05.35 140'

665+80.91 S.O.R. 35' R/W S.F.D.

EQ 410+97.18

667+66.14 ℄ EXIST. RTE. 40

667+63.98 ℄ E.B. RTE. 40 (43' RT.)

0+00 ℄ RAMP 7 (67' RT.)

411+90.12 ℄ S. FORTY DR. (100' 5" RT) AH

EQ 667+65.64 ℄ S. FORTY DR. BK.

P.C. 410+20.12 S.F.D.

413+00.68 P.C.C.

T.T.B.

S.Y.T.

I.W.T.

S.W.T.

REVISIONS:
EDGE DROP OFF TREAT
658+40 ~ 661+90 S.F.D.
RELOC IMP ATTN ~ 659+00± ℄ 40 Rt

SCALE
150' 100 50 0 50'

CONSTRUCTION DETAILS
STAGE IV

FINAL PLANS

34

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 35
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

CONSTRUCTION DETAILS
STAGE IV

FINAL PLANS

35

Rev 12-90

SCALE 150' 100' 50' 0 50'

SEE SHEET MATCH LINE 410+00

MATCH LINE 425+00 - SEE SHEET

MATCH LINE 673+50 - SEE SHEET

I-270

T.T.B. 417+06.6 ℄ I-270
682+59.01 ℄ RTE. 40

RAMP 2 · RAMP 3 · RAMP 4 · RAMP 5 · RAMP 6 · RAMP 7 · RAMP 8

BY-PASS 15

S. FORTY DR.

N. FORTY DR.

RTE 40

CURB B

100 LF TEMP. TRF. BAR.

180 LF TEMP. TRF. BAR.

130 LF TEMP. TRFC. BAR.

100 LF TEMP. TRFC. BAR.

IMPACT ATTN.

DRUMS w/W01-6

BIT. PAV'T.

TEMP. BR. A-1053 R/L

BR. NO. A-4615

BR. NO. A-4616

BR. APPRO. SLAB

TEMP. RET. WALL

DT LINER

TEMP. SLOPE

CONC. SLOPE PROT.

RET. BASIN EL 597.0

MT ON WOOD POST

MT ON POST

RELOC TO WOOD POST

LOW CLEAR

A' 0"

'A' TRFC. BAR.

P.C.C. LN. & SHLDR. RESURFACED

42+00 END RESURF.

+00 BEGIN EXIST. RESURF. (0")

+10 END RESURF

+10 (3" RESURF.)

STAGE CONSTRUCTION LIMITS

ORIGINAL SURVEY · FINAL SURVEY
SURVEYED · PLOTTED · TEMPLATE · NOTE BOOK · AREAS CHECKED · BY · DATE · NO.

1544 24 TO 1

STATE MO.	JOB NO. J6I0 6471 - 270	SHEET NO. 36
DIST. NO. 6	PROJECT NO. IR-IRS-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

SEE SHEET MATCH LINE 691+00

MATCH LINE 410+00 SEE SHEET

MATCH LINE 425+00 SEE SHEET

MATCH LINE SEE SHEET

PARKING GARAGE AND OFFICE BLDG.

DET. POND

OPEN TRENCH

BY PASS 3

RAMP 1

RAMP 2

RAMP 3

RAMP 4

RAMP 5

RAMP 8

NOT IN USE

I-270

BRIDGE A 4651

BRIDGE A 4653

TEMP. BRIDGE A 1053 RI

TEMP. CONN.

RETAINING WALL

RESURFACED PCC PVMT & SHLDR

'A' TRFC BAR

CONSTRUCTION DETAILS
STAGE IV
FINAL PLANS

Revisions:
Dt. Liner (Repair) 21+07 Bk. Rp 2 Lt.
S.W.P. Temp Conn - 40 to Rp 4
Change Order - Drain Basin - See Detail

SCALE
150' 100' 50' 0 50'

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	AREAS		
NO.	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	AREAS		
NO.	AREAS CHECKED		

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 37
DIST. NO. 6	PROJECT NO. IR-IR6-270-5(253)	ROUTE
	COUNTY ST LOUIS	

FINAL PLANS

SEE JOB 647H
MATCH LINE 130+50

SEE SHEET
MATCH LINE 691+00

MATCH LINE 706+00
SEE SHEET

MATCH LINE 123+00
SEE JOB 647H

RAMP 1 — RAMP 2 — RAMP 9 — RAMP 10 — RAMP 11

SPEED LIMIT 40

RT LANE MUST TURN RT

EXIT

RIGHT LN MUST EXIT

500 FT

1000 FT

MT ON WOOD POST

DETOUR JJ BALLAS RD 1 MILE

RELOC TO WOOD POST

SIGNALIZED INTERSECTION

700+29.28 ℄ RTE 40
127+48.34 ℄ RTE JJ

700+46.31 B E.B. 40
127+09.34 ℄ RTE. JJ

700+46.83 ℄ W.B.
127+87.34 ℄ JJ

697+63 ℄ RTE. 40
P.T. 697+80.34 B E.B. 40 (39°RT.)
P.T. 33+12.27 ℄ RAMP 2 (83°RT.)

35+77.88 B RAMP 2
126+65.34 ℄ RTE. JJ

13+33.97 B RAMP 9
124+24.36 CONST. ℄

123+00 ℄ RTE. JJ
123+00 CONST. ℄ RTE. JJ
(18° LT.)

124+75.77 ℄ JJ
6+52.78 ℄ RP 10

124+25 ℄ JJ
0+18.28 ℄ RP 11

PARKING LOT

FENCE

R/W LINE

RET. WALL A-4679

RET. WALL A-4788

RET. WALL A-4656

BR. A-4655

BR. A-4580

BR. APPRO. SLAB

CONC. ISLANDS

CONC. MED.

CONST. ℄ RTE. JJ

REVISIONS-
EXTENSION OF PVD 2' FBD
TO 693+50 ℄ 90 RT.

CHANGE ORDER - (CONC SL. PROT.)
SEE DETAIL - DRAIN BASIN

SCALE
150' 100' 50' 0 50'

CONSTRUCTION DETAILS
STAGE IV

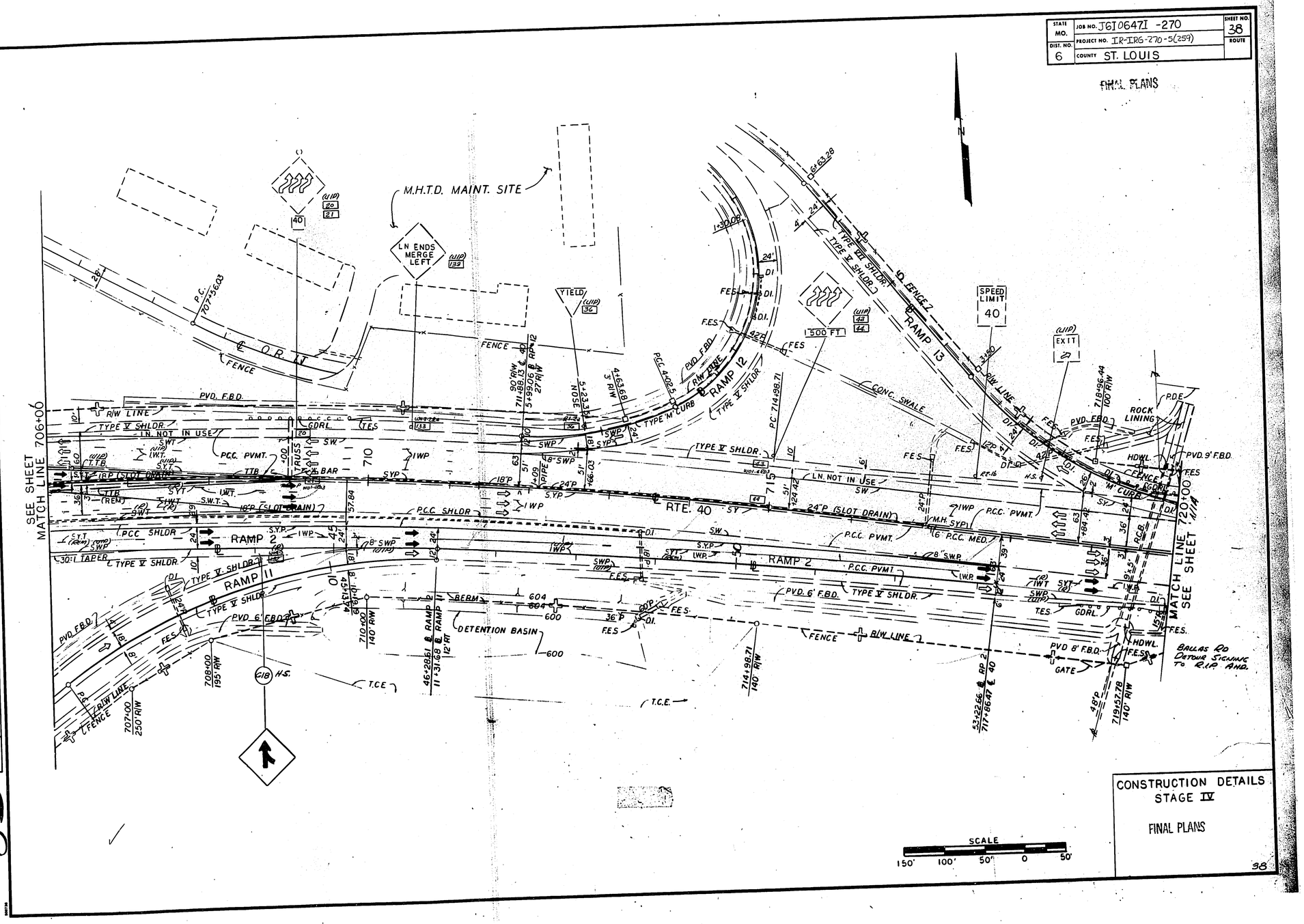
FINAL PLANS

37

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 38
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST. LOUIS	

FINAL PLANS



CONSTRUCTION DETAILS
STAGE IV

FINAL PLANS

38

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 39
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

MATCH LINE 425+00 - SEE SHEET

MATCH LINE - SEE SHEET

I-270

RAMP 7

RAMP 6 STYP

RAMP 7 STYP

BY PASS 15

S FORTY DR.

JENIFER LN

R/W LINE

PDE

SFD PT 432+15.32 432+15.32 140 RT. ℄ 270

RESURFACED

P.C.C. PVMT. & SHLDR.

P.C.C. PVMT.

P.C.C. SHLDR. W/ A CURB & FENCE

P.C.C. SHLDR. W/A CURB

V SHLDR

DRUMS

18" R.C.P.

8" SWP

I.W.P.

S.W.P.

D.I.

A MED BAR

SIGN TRUSS

PVD. 2' F.B. DT.

PVD. V. DT.

END P.C.C.

SCALE

150' 100' 50' 0 50'

CONSTRUCTION DETAILS
STAGE IV

FINAL PLANS

59

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
NO.	AREAS		
	AREAS CHECKED		

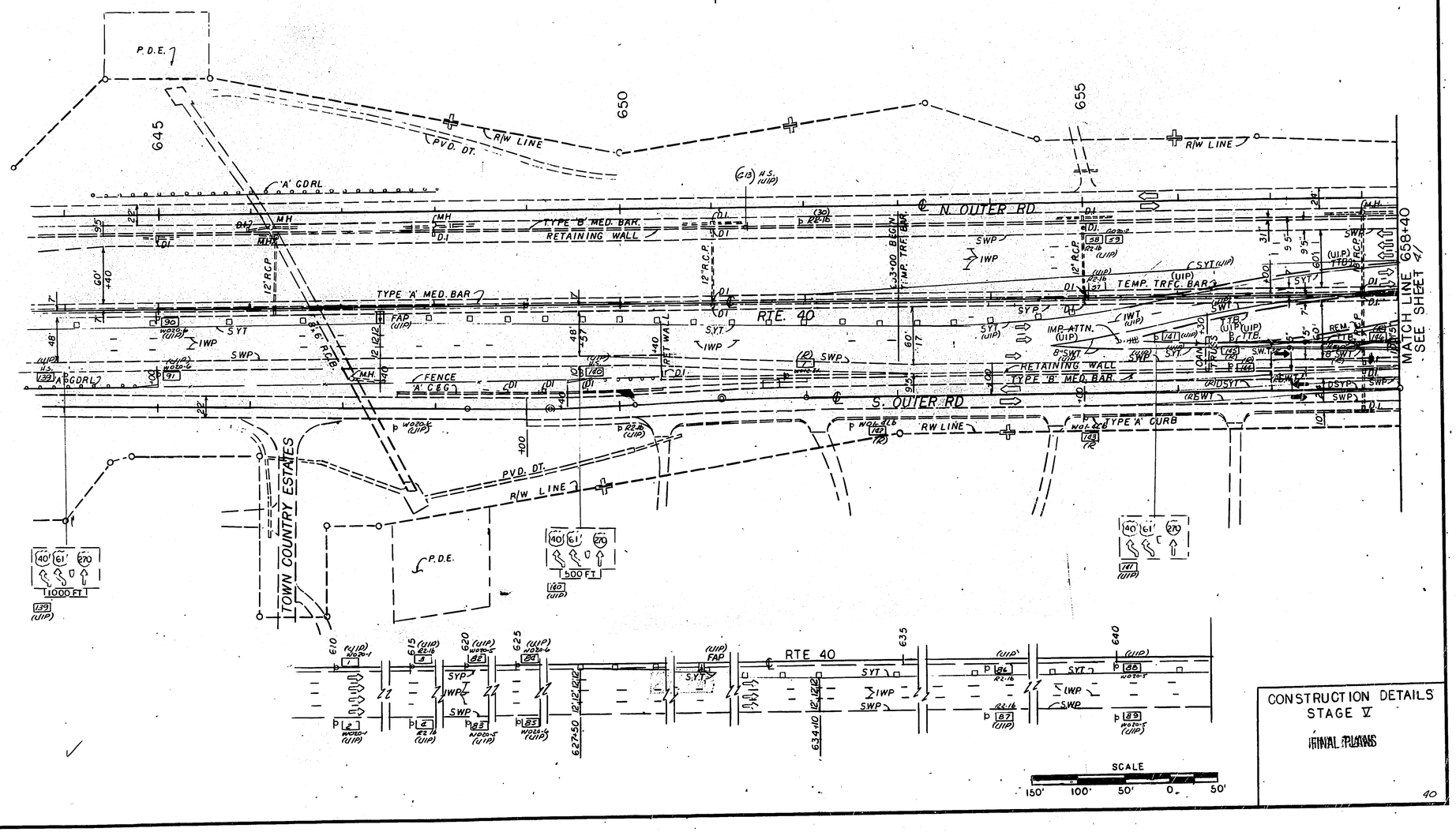
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 40
DIST. NO. 6	PROJECT NO. IR-IRG-270-S(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		



CONSTRUCTION DETAILS
STAGE V

FINAL PLANS

40

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 41
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

MATCH LINE 658+40 SEE SHEET 40

MATCH LINE 673+50 SEE SHEET 42

660 665 670

661+50 ℄ RTE. 40 END CONST. JOB 6-U-40-402

659+97.29 150' R/W

660+35.54 ℄ 40 430+15.63 ℄ NFD. EQ.

662+60 155'

666+00 210'

666+50 210'

670+75 291.54'

671+45 327.92'

670+37 233.42'

669+45 215.17'

668+75 199.28'

SPEED LIMIT 40

N. FORTY DR.

W.B. RTE 40

E.B. RTE 40

S. FORTY DR.

AMERSHAM DR.

RAMP 3

RAMP 7

RAMP 8

EXIST. RTE. 40

R/W LINE

TCE

24"CMP

MH

FES

FBO

DI

SWP

DSYP

SWF

DSYF

SYT

IWT

SWT

TTB

TTE

PCC SHLDR.

PCC PVMT

RET. WALL

MOD A BAR

6' TRFC. BAR

TYPE 'E' GUTTER

TYPE V SHLDR

W/A CURB

SAFE BAR CURB

GDRL

2' PVD FBO

TEMP. RET. WALL

TEMP. SHORING

ORIG. PCC PVMT (REM)

FUTURE ISLN

BITUM. WITH.

CONSTRUCTION DETAILS STAGE V

41

SCALE 150' 100 50 0 50'

REVISIONS
GROUT FILL EXIST P 667+00 ℄ 40 RT

667+66.14 ℄ EXIST. RTE. 40 (143' RT.)
667+63.86 ℄ E.B. RTE. 40 (143' RT.)
0+00 ℄ RAMP 3 (100' RT.) S. FORTY DR.
411+90.72 ℄ S. FORTY DR. BK
EQ ℄ 667+65.64 ℄ S. FORTY DR. AH

665+80.91 SOR 35' R/W EQ 410+27.18 SFD

661+55.35 140'-100' R/W

662+05.35 140

FINAL SURVEY: SURVEYED, SUBMITTED, FIELD BOOK, NOTE BOOK, TEMPLATE, AREAS, AREAS CHECKED, NO., BY, DATE

ORIGINAL SURVEY: SUBMITTED, FIELD BOOK, NOTE BOOK, TEMPLATE, AREAS, AREAS CHECKED, NO., BY, DATE

1544 24 TO 1

STATE	JOB NO. J6I0647I - 270	SHEET NO.
MO.		42
DIST. NO.	PROJECT NO. IR-IR6-270-5(254)	ROUTE
6	COUNTY ST LOUIS	270

SEE SHEET MATCH LINE 410+00

MATCH LINE 425+00 SEE SHEET

MATCH LINE 673+50 - SEE SHEET 41

I-270

TEMP. BR. A-1053 R1

BIT. PAV'T.

417+06.6 ℄ I-270
682+59.01 ℄ RTE. 40

RAMP 2

RAMP 6

RAMP 3

RAMP 4

RAMP 7

BY-PASS 6

BY-PASS 15

S. FORTY DR.

N. FORTY DR.

RTE 40

W B

100 LF TEMP. TRF. BAR.

180 LF TEMP. TRF. BAR.

130 LF TEMP. TRFC. BAR.

IMPACT ATTN.

DRUMS

WEST | SOUTH

T.T.B. AT ℄

18" RCP

24" RCP

30" RCP

36" RCP

42" RCP

48" RCP

72" RCP

(UIP) 18" RCP

(UIP) 48" RCP

PVD FBD

DT. LINER

TEMP. RET. WALL

RET. BASIN EL 597.0

BR. APPRO. SLAB

CONC. SL. PROT. (UIP)

P.C.C. SHLDR.

P.C.C. LN. & SHLDR.

RESURFACED

END RESURF.

BEGIN EXIST. RESURF. (OL)

423+00 END RESURF.

415+36.08

420+77.12

+10 END RESURF

+00 BEGIN EXIST. RESURF. (OL)

+10 (3" RESURF.)

+84.9

+23.58

+70.69

+35.65

+74.19

+76.13.92

674+00
465' R/W

+73 P.T.

+34 P.T.

PC 414+91.18
N. FORTY DR.

PC 419+50.00
S. FORTY DR.

RW LINE

FENCE

BALLAS RD 1/4 MILE

NORTH 270 CHICAGO | SOUTH 270 MEMPHIS

47

REVISIONS:
10' HT ON TTB 6457 By-Pass 6

DRAIN BASIN (O.B.) SEE DETAIL

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

CONSTRUCTION DETAILS
STAGE V
FINAL PLANS

SCALE

97

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 43
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		DATE

SEE SHEET
MATCH LINE 691+00

RAMP 9

RAMP 1

RAMP 2

RAMP 3

RAMP 4

RAMP 5

RAMP 8

BY PASS 3

I-270

PARKING GARAGE
AND OFFICE BLDG.

DET. POND

NOT IN USE

EAST NORTH

BRIDGE A 4651

BRIDGE A 4650

BRIDGE A 4653

TEMP. BRIDGE A 1053 RI

SEE SHEET
MATCH LINE 410+00

MATCH LINE 425+00
SEE SHEET

MATCH LINE
SEE SHEET

CONSTRUCTION DETAILS
STAGE V
FINAL PLANS
43

SCALE
150' 100' 50' 0 50'

ORIGINAL SURVEY	SURVEYED	BY	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		DATE

88

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 44
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

MATCH LINE 425+00 - SEE SHEET 42

MATCH LINE - SEE SHEET

I-270

RAMP 7

RAMP 6

RAMP 5

BY PASS 15

S. FORTY DR.

JENIFER LN

PDE

S.F.D. PT. 432+15.32 432+15.32 140 RT. ℄ 270

SIGN TRUSS

18" R.C.P.

P.C.C. PVMT. & SHLDR.

RESURFACED

P.C.C. PVMT.

PCC SHLDR. W/ A CURB

PCC SHLDR. W/ A FENCE

PCC PVMT.

PCC SHLDR.

8" SWP

A' MED BAR

DRUMS

PVD. 2' F.B. DT.

PVD 'V' DT.

R/W LINE

℄ SOR.

CONSTRUCTION DETAILS
STAGE V

FINAL PLANS

SCALE
150' 100' 50' 0 50'

44

1544 24 TO 1

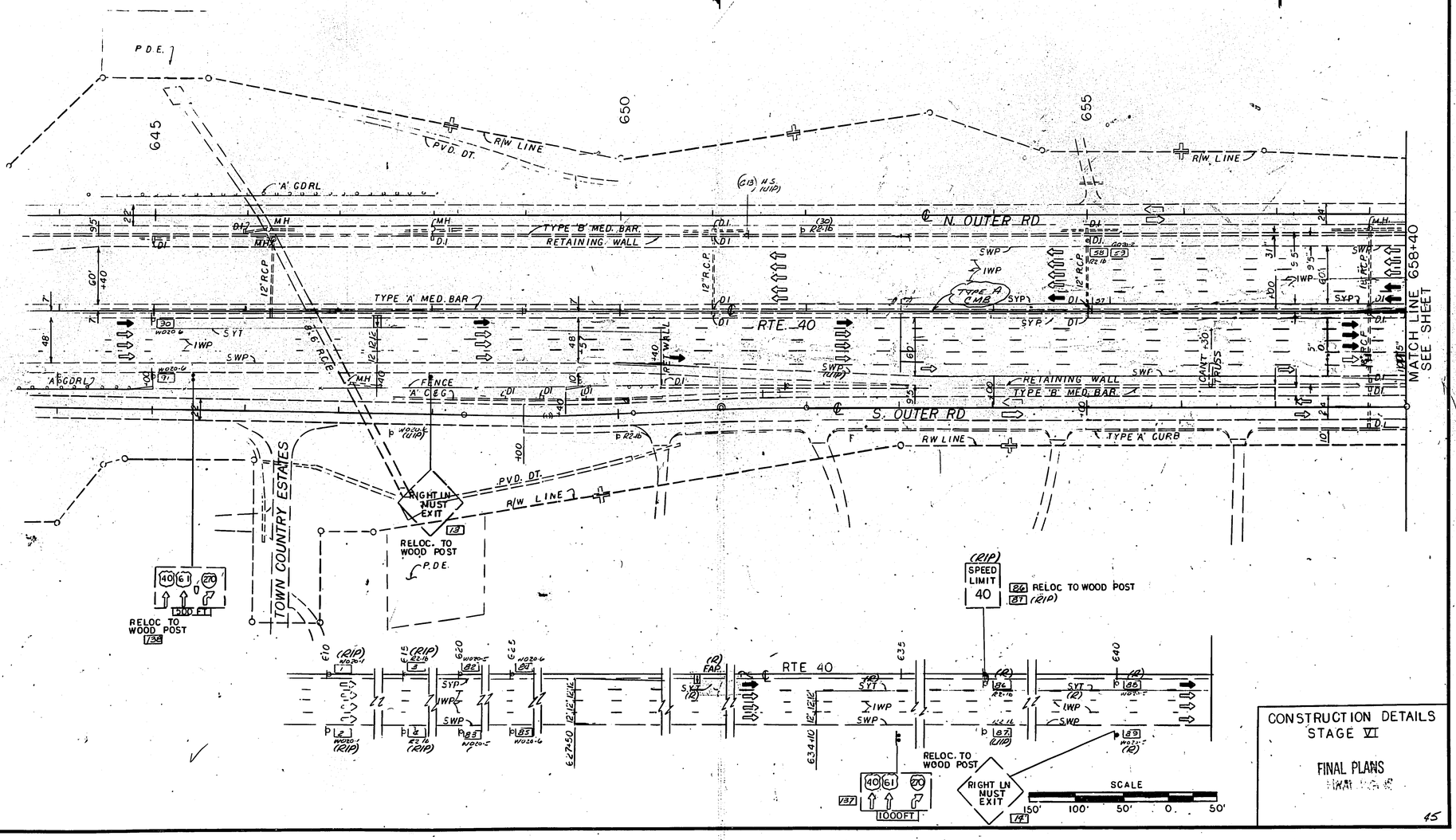
STATE MO.	JOB NO. J610647I -270	SHEET NO. 45
DIST. NO. 6	PROJECT NO. IR-IRG-270:5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	PLOTTED	BY	DATE
	PLOTTED		
	NOTE BOOK	TEMPLATE	
	NO.	AREAS CHECKED	

ORIGINAL SURVEY	PLOTTED	BY	DATE
	PLOTTED		
	NOTE BOOK	TEMPLATE	
	NO.	AREAS CHECKED	

90



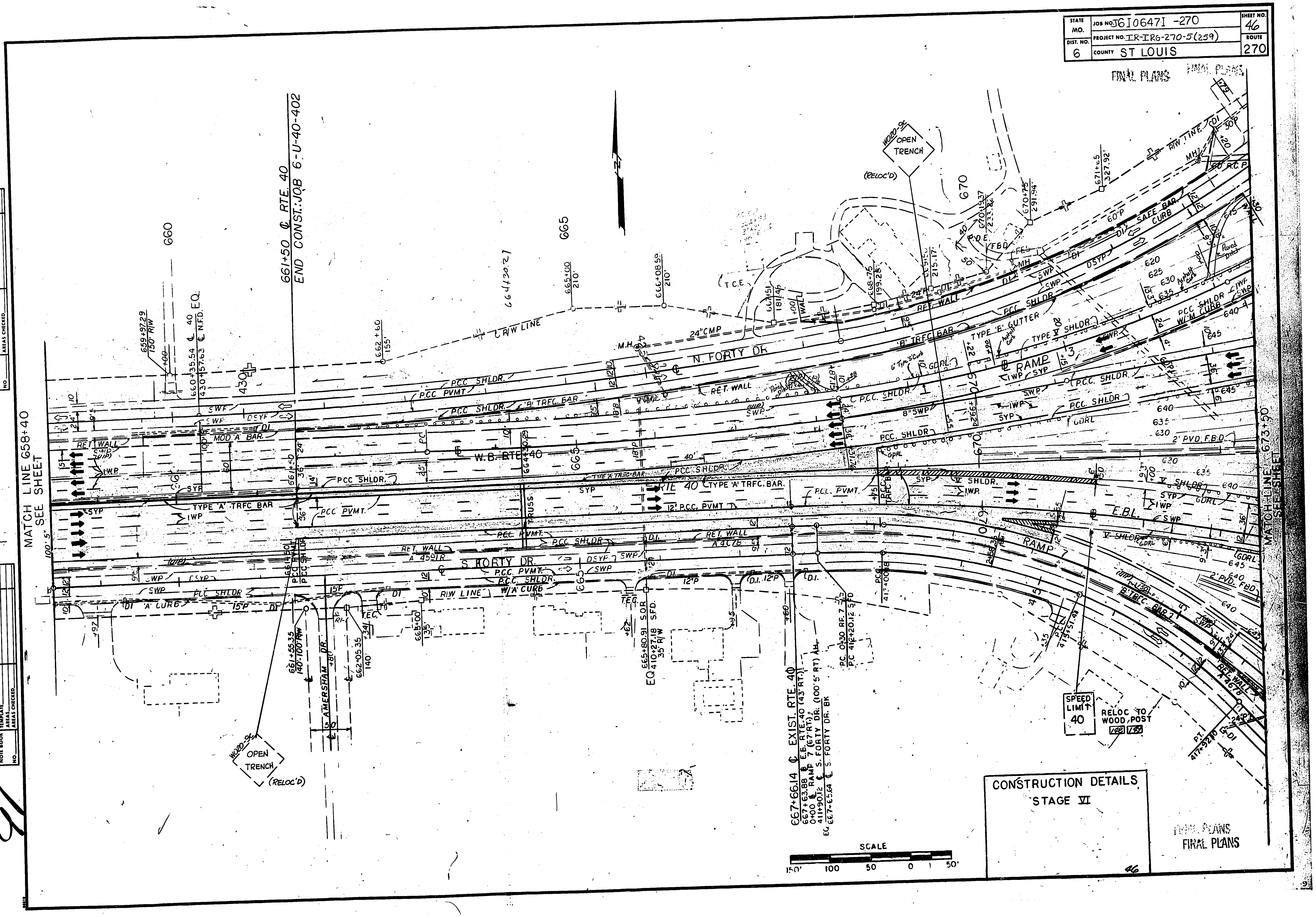
CONSTRUCTION DETAILS
STAGE VI

FINAL PLANS

45

1544

24 TO 1


STATE MO.
JOB NO. J6I0647I -270
SHEET NO. 46
PROJECT NO. IR-IRG-270-5(259)
ROUTE 270
DIST. NO. 6
COUNTY ST LOUIS
FINAL PLANS
MATCH LINE 658+40 SEE SHEET
MATCH LINE 673+50 SEE SHEET
661+50 ℄ RTE. 40
END CONST. JOB 6-U-40-402
N. FORTY DR
S. FORTY DR.
W.B. RTE 40
RTE 40
E.B.L.
RAMP 7
AMERSHAM DR.
R/W LINE
TYPE 'A' TRFC. BAR
'B' TRFC. BAR
RET. WALL
P.C.C. SHLDR.
P.C.C. PVMT.
24" CMP
OPEN TRENCH (RELOC'D)
SPEED LIMIT 40
RELOC TO WOOD POST
667+66.14 ℄ EXIST. RTE. 40
SCALE
150' 100 50 0 50'
CONSTRUCTION DETAILS
STAGE VI
46

1544 24 TO 1

STATE MO.	JOB NO. JGI-0647I - 270	SHEET NO. 47
DIST. NO. 6	PROJECT NO. IRIRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

SEE SHEET MATCH LINE 410+00

MATCH LINE 425+00 SEE SHEET

I-270

RAMP 2

RAMP 3

RAMP 4

RAMP 6

RAMP 7

BY-PASS 15

BY-PASS 6

N. FORTY DR

S. FORTY DR

TEMP. BR. A-1053 R1

BR. NO. A-4841

BIT. PAV'T.

T.T.B. AT ℄

100 LF TEMP. TRF. BAR.

180 LF (SWF) TEMP. TRF. BAR.

130 LF. TEMP. TRFC. BAR.

IMPACT ATTN.

DRUMS

DRUMS W/WO1-4

SHOULDER WORK AHEAD

TEMP. WALL

TEMP. CONC. BARRIER

DT. LINER

P.C.C. LN. & SHLDR. RESURFACED

42+31.00 END RESURF.

+10 END RESURF.

+10 (3" RESURF.)

+00 BEGIN EXIST. RESURF. (70')

417+06.6 ℄ I-270
682+59.01 ℄ RTE. 40

+36.08

+77.12

415

420

RET. BASIN EL 597.0

BALLAS RD 1/4 MILE

NORTH CHICAGO (270) (61) SOUTH MEMPHIS (270)

674+00 465' R/W

MATCH LINE 673+50 - SEE SHEET

CONSTRUCTION DETAILS STAGE VI

FINAL PLANS

SCALE 150' 100' 50'

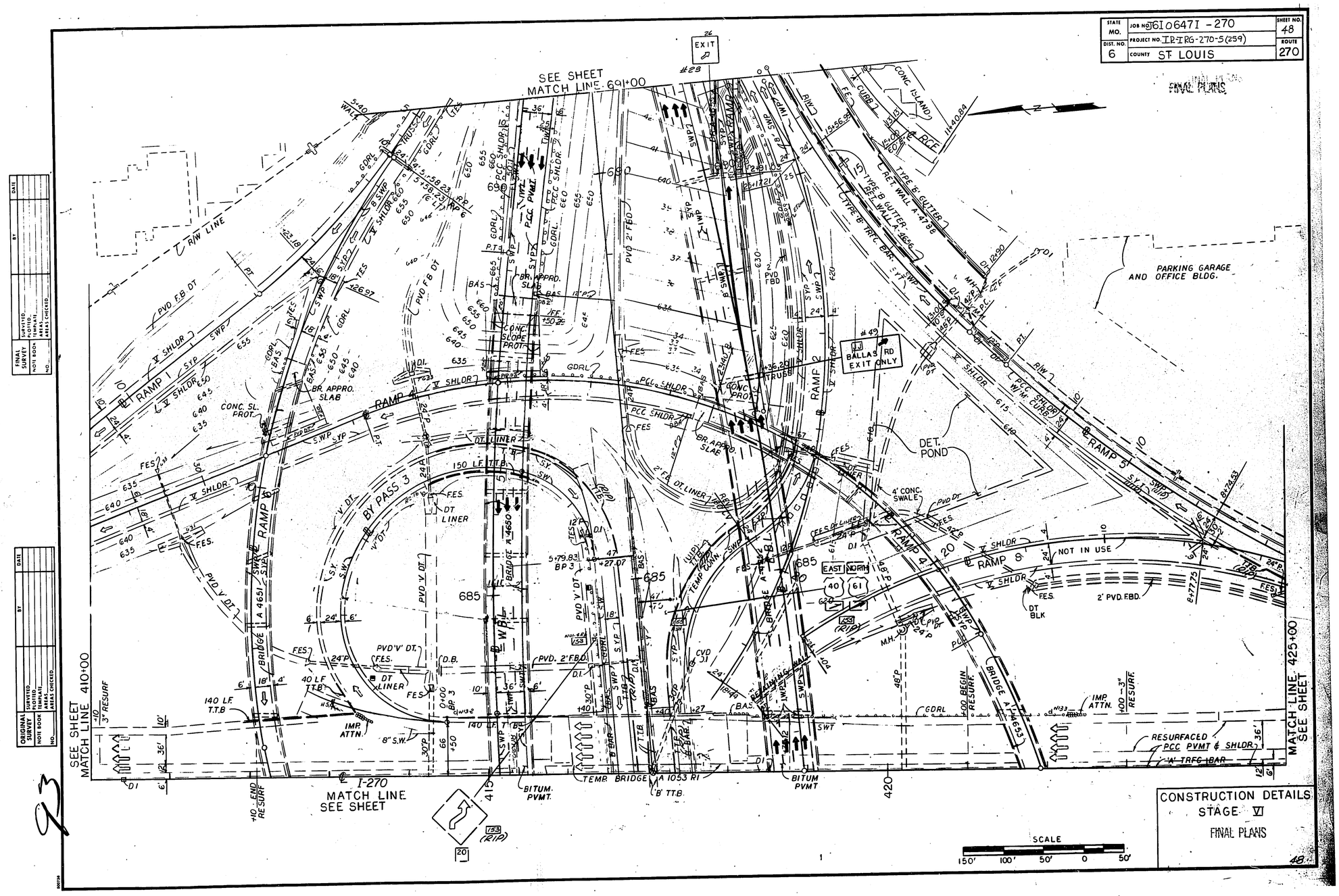
FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	TEMPLATE	
	AREAS CHECKED	
	NO.	

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	TEMPLATE	
	AREAS CHECKED	
	NO.	

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 48
DIST. NO. 6	PROJECT NO. IP-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

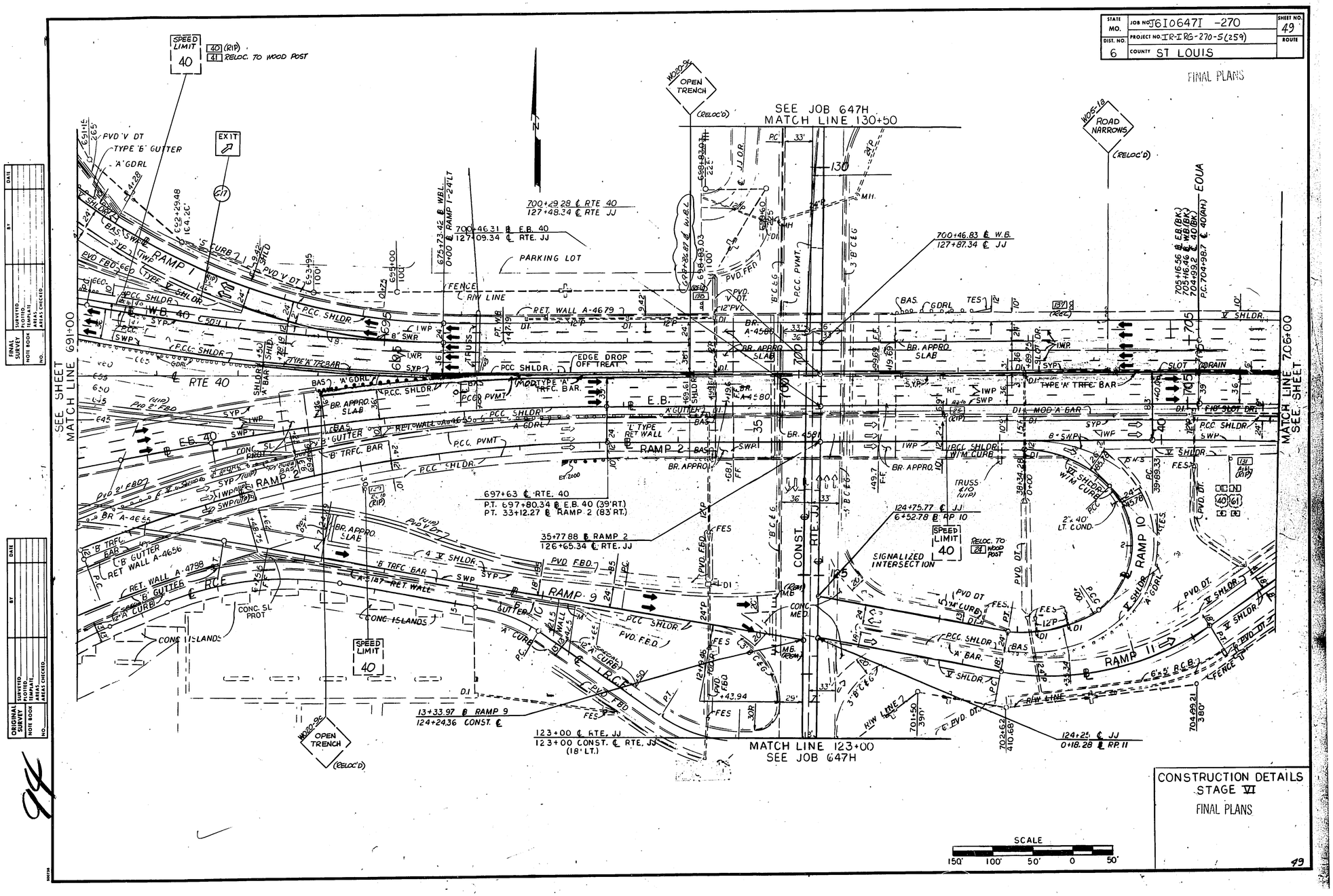
FINAL PLANS



1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 49
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST LOUIS	

FINAL PLANS



CONSTRUCTION DETAILS
STAGE VI
FINAL PLANS

49

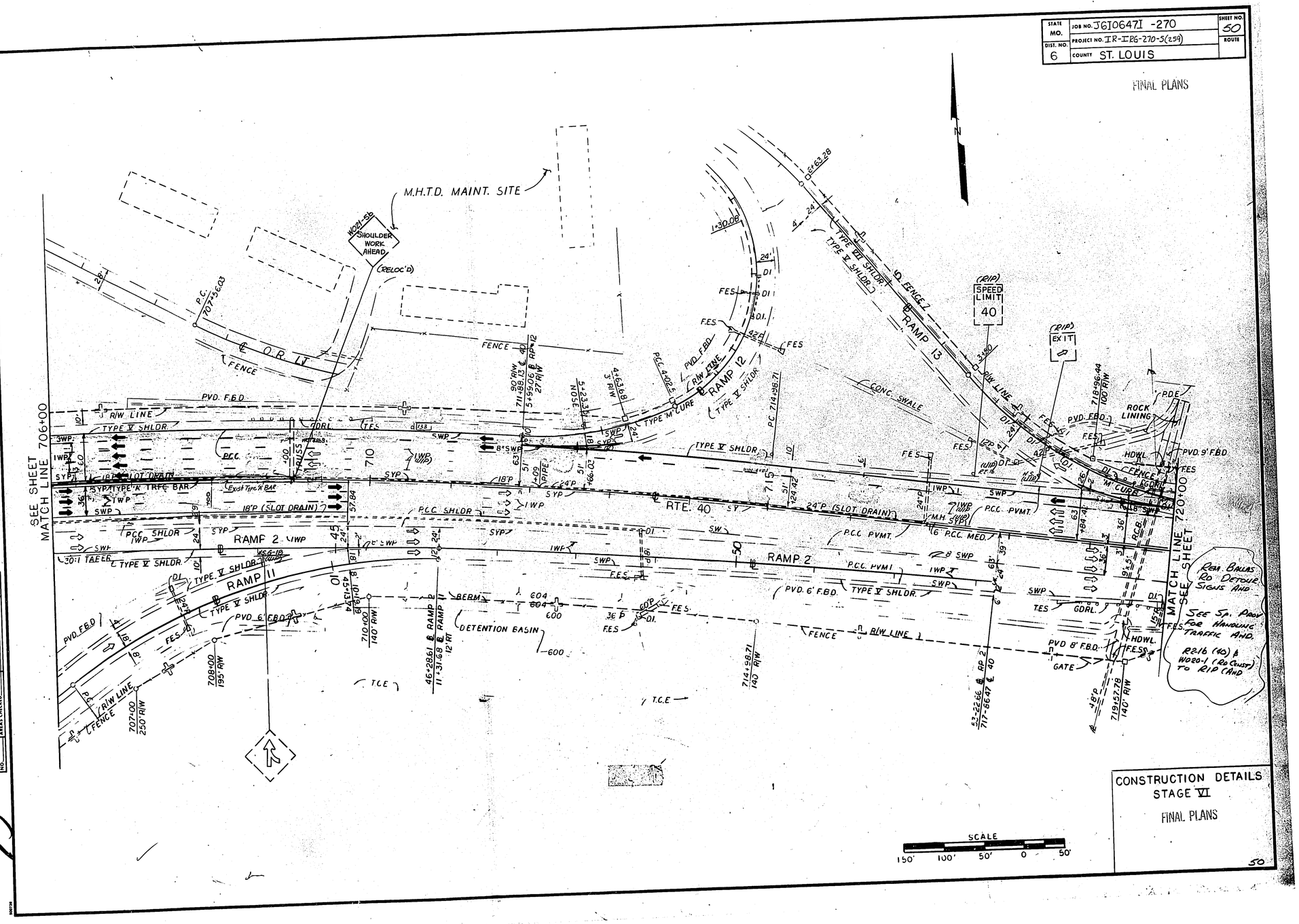
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 50
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY — DATE / BY / SURVEYED / PLOTTED / FIELD BOOK / AREAS COMPUTED / AREAS CHECKED / NO.

ORIGINAL SURVEY — DATE / BY / SURVEYED / PLOTTED / FIELD BOOK / AREAS COMPUTED / AREAS CHECKED / NO.



95

50

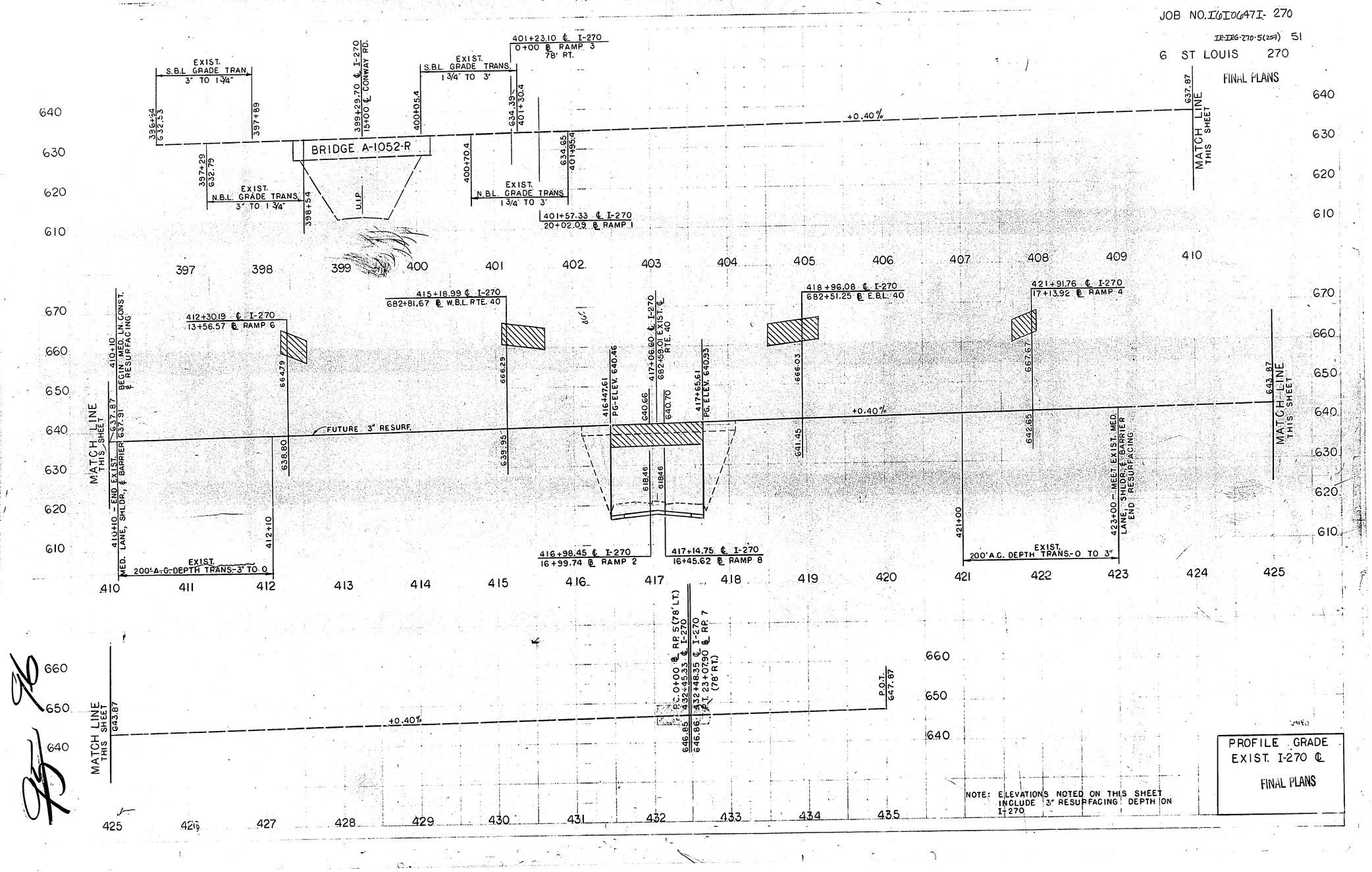
1544 24 TO 1

JOB NO. I6I0647I- 270

IR-IRG-270-5(259) 51

6 ST LOUIS 270

FINAL PLANS



1544 24 TO 1

JOB NO J6I0647I- 270

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	IR-IRG-270-5(259)	52
DIST. NO.	COUNTY	ROUTE / SEC.
6	ST. LOUIS	270

FINAL PLANS

PLANS

CROWN SECTION

S.E. TRANS. CROWN TO .0156% RT.

S.E. TRANS. .0156% RT. TO .05% RT.

.05% S.E. RT.

S.E. TRANS. .05% RT. TO FLAT

S.E. TRANS. FLAT TO .04% LT.

Job No. 6-U-40-402

Job No. 6-I-270-647 I

℄ E.B.L.

℄ RTE. 40 661+50 (BK.) = 661+50.5(AH)

607.50 7' RT. ℄

607.31 ℄ E.B.L.

661+48.24 ℄ E.B.L. 43' RT.

+0.88

+85.88

24' RT. 667+53.88 ℄ E.B.L. = 0.100 ℄ RAMP 7

628.24

+3.4%

EXIST. GR. LINE

℄ EASTBOUND RTE 40

+24.82

+64.82

PC 671+33.38 EL. 644.20

+2.26%

℄ RAMP 13 668+31.76 ℄ E.B.L. 22+87.15 24' LT.

630.49

+85.88

V.C. = 460'
K = 404
SSD = 810'
M.O. = -0.66'

655.00

SEE SHEET MATCH LINE 676+00

6-I-270-647 I

6-I-270-647 E

CROWN SECTION

S.E. TRANS. CROWN TO .0156% LT.

S.E. TRANS. .0156% LT. TO .025% LT.

.025% S.E. LT.

S.E. TRANS. .025% LT. TO FLAT

S.E. TRANS. FLAT TO .025% RT.

.025% S.E. RT.

Job No. 6-U-402

Job No. 6-I-647 I

+51.81

+35.81

+93.81

RT. SIDE FLAT

+33.81

+95.26

+75.26

+35.26

℄ RTE. 40 661+50 (BK.) = 661+50.4(AH)

607.50 7' LT. ℄

607.31 ℄ W.B.L.

661+50.4(AH) ℄ W.B.L. 43' LT.

+3.4%

630.49

668+31.76 ℄ W.B.L. 22+87.15 ℄ RAMP 13 24' LT.

PC 672+39.06 644.34

1570 V.C.

Temp. Sl. 25:1 Max.

Job No. 6-I-647 I

Job No. 6-I-647

655.00

SEE SHEET MATCH LINE 676+00

EXIST. GR. LINE

℄ WESTBOUND RTE 40

BENCH MARK
See Following Sh.

FINAL PLANS

PROFILE GRADE
EASTBOUND
& WESTBOUND
RTE. 40
STA. 661+50.50 TO 676+00

661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676

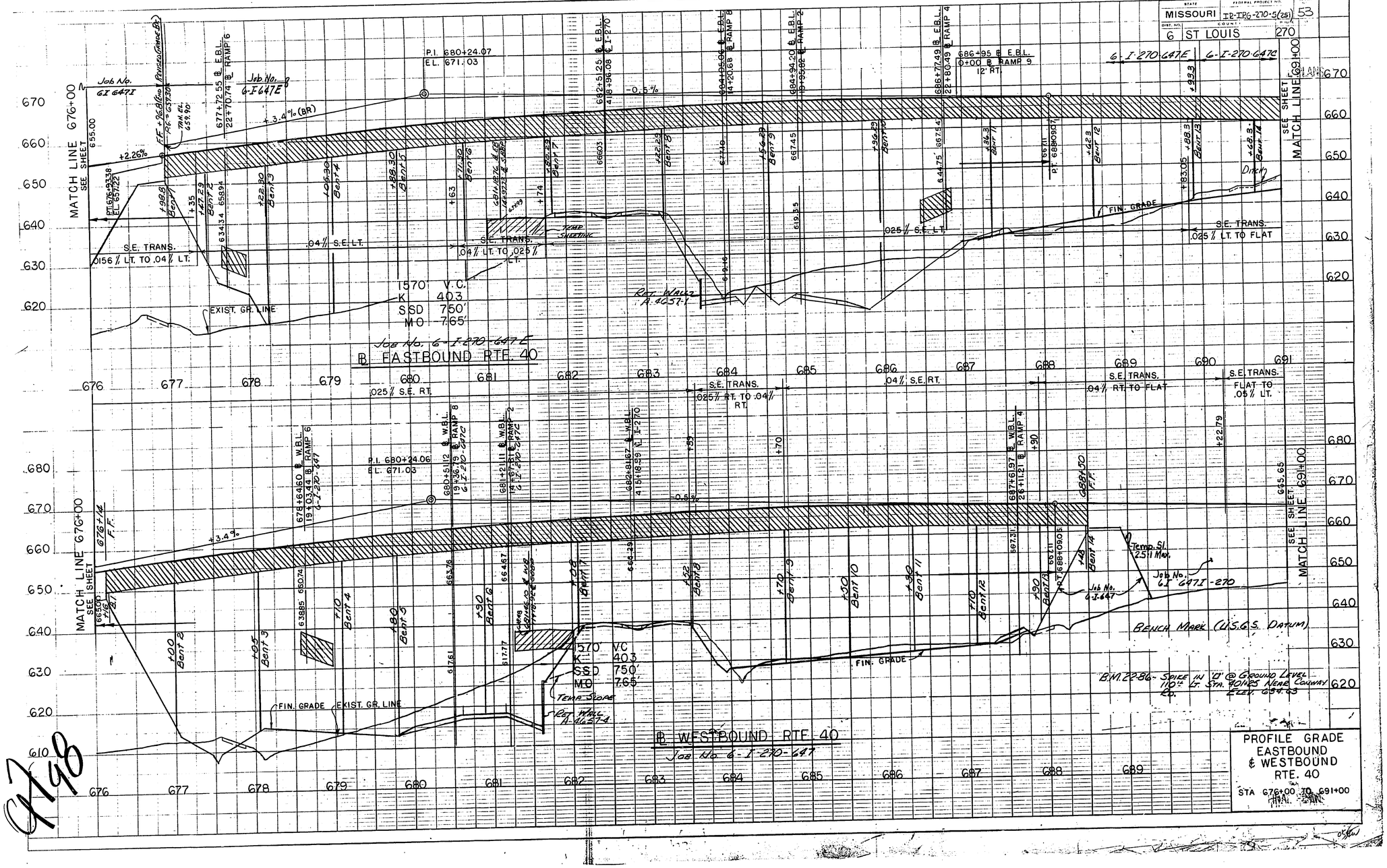
610 620 630 640 650 660 670

600

1544 24 TO 1

JOB NO. J6I0(647I-270)

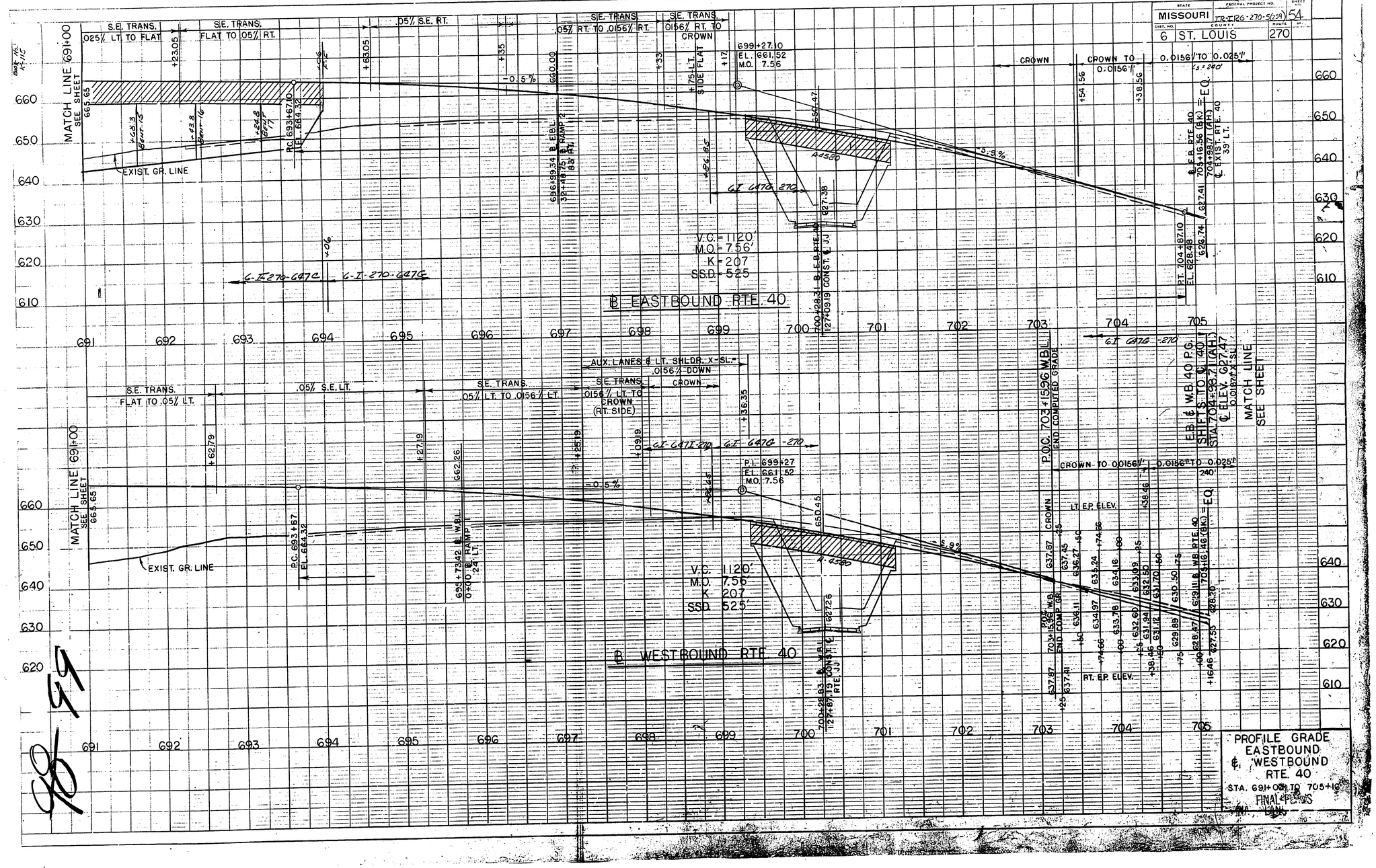
STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
MISSOURI	IR-IRG-270-5(251)	53	
DIST. NO.	COUNTY	ROUTE NO.	
6	ST LOUIS	270	



1544 24 TO 1

J6I0604 7T-271

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	IR-IRG-270-5(639)	54
DIST. NO.	COUNTY	ROUTE
6	ST. LOUIS	270



1544 24 TO 1

FINAL PLANS

STATE MO.	JOB NO. J5P1006.47I-270	SHEET NO. 55
DIST NO 6	PROJECT NO IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.M.'S NOTED
NOTE BOOK
NO.
SHOWN THUS

DATE	BY

0.0156"/ TO 0.025"/

MATCH LINE 704+98.71
SEE SHEET 82 OF 705-011

P.C. 705+01.47

480' V.C.
K=120.0
MO 2.4

0.025"/

P.T. 709+81.11

P.I. 707+41.10
EL 613.17

1.9%

℄ I 270-6.67 B

0.025"/ TO 0.0156"/

S.E. 0.025"/

711+68.13 ℄ 40
5°49'03" RT. RAMP 12
163' LT.

712+06.03 ℄ 90 NO SE
5°23'35" RT. RP 12

+78.71

+113.13
607.68

609.68

603.20

0.0156"/
E.B.L.

+118.71

W.B.L. S.E. RUNOUT
0.0156/RT. TO 0.0156"/LT.

0.0156"/ TO
W.B. & E.B.L.

+68.71

520' V.C.

E.B.L. EL 615.90

1.9%

7+78.67 ℄ 40
53°12'26" RT. RAMP 2

MATCH LINE-THIS SH.

MATCH LINE-THIS SH.

520' V.C.
K 200
MO. 1.65

720-SC ℄ 40
0°40' RT. RAMP 13
63' LT.

EXIST. GROUND LINE

400' V.C.
K 118.9
MO. 1.74

-1.9%

+0.16%

RP 13
(2.11 W.B.L. ELEV.)

P.I. 716+50
EL 592.10

P.I. 729+00
EL 598.40

+4.05%

MATCH LINE-THIS SH.

MATCH LINE-THIS SH.

0.0156"/ CROSS SL.

P.I. 733+00
ELEV. 614.72

+3.04%

EXIST.

250' V.C.
K 231.5
SSD 740
MO. 0.34

1'00" COLDMILLING & WARP RESURF. TO MATCH EXIST. CROSS SLOPE (E.B.L.)

RESURF. W.B.L. - MATCH E.B.L. ELEV.

0.0156"/
W.B.L.

+100 E.B.L. 630.99
+100 W.B.L. 630.99

PROFILE GRADE
℄ RTE. 40
STA. 704+98.71
TO
STA. 735+25
FINAL PLANS
SH. 5 OF 13

82 100

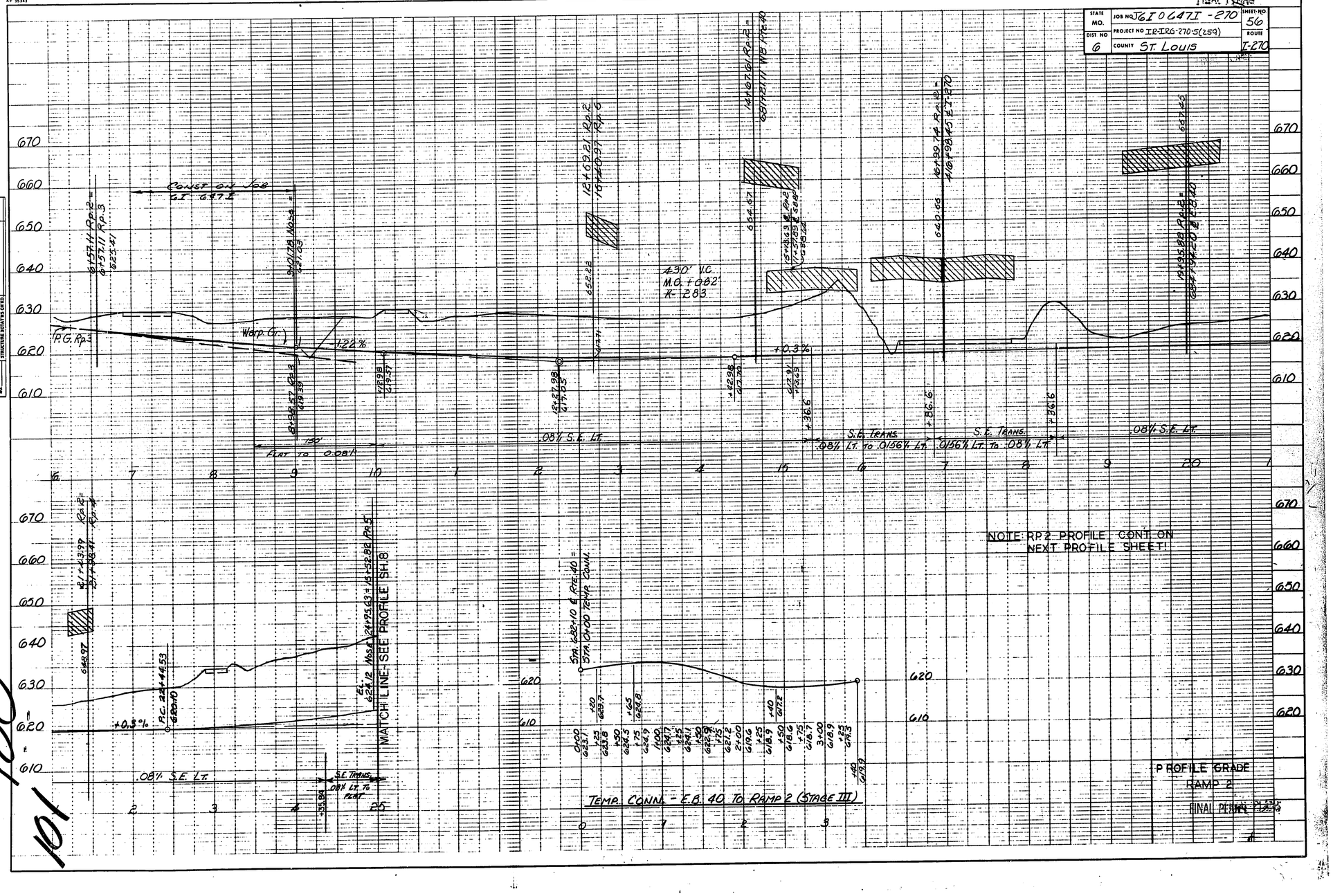
1544 24 TO 1

AF 35343

FINAL PLANS

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 56
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE
	COUNTY ST. LOUIS	I-270

PROFILE — SURVEYED, PLOTTED, CHECKED & DETAILED, R.M.'S & STRUCTURE NOTATIONS ENTERED
NOTE BOOK
NO.
BY
DATE



101

1544 24 TO 1

J6I-0104TI-270

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	IR-IPG-270-5(259)	57

DIST. NO.	COUNTY	ROUTE	REF.
6	ST LOUIS	270	

FINAL PLANS

BOOK NO. MS-115

SE. TRANS. .08% LT TO FLAT

S.E. TRANS FLAT TO 0.06%

.06% SE. RT.

SE. TRANS .08% RT. TO 0.0156% RT

SE. TRANS 0.0156% TO ½ FLAT

SE. TRANS ½ FLAT TO CROWN

CROWN SECTION

P.I. 33+34.47
EL. 663.82
M.O. 15.16

+37.27 +52.27 +87.27 +22.27

℄ 647G-270

MATCH LINE SEE PROFILE SHEET 7.

550' V.C.
M.O. 3.90
K 96.5

662.06

27+11.54 ℄ RP 2
4+87.29 ℄ RP 9

+6.0%

26+34.51 (B.K.)
26+36.16 (A.H.)

P.I. 25+11
EL. 620.92
+0.3%

P.C. 28+39.47
EL. 640.12

TEMP. COMB. 10-40

℄ GROUND LINE

A-4581

-6.25%

℄ TEMP. SLOPE

V.C. = 990'
M.O. = 15.16'
K = 80.8
SSD = 330'

35+58.88 ℄ RAMP 2
126+65.19 CONST. ℄ RTE. JJ

℄ 647G-270 ℄ I-270-647B

38+34.28 ℄ RAMP 12
0+00 ℄ RAMP 10
(12' RT.)

B51.24

627.39

PT. 36+29.47
EL. 638.88

638.88

39+06.49
634.09

14' RT.
39+28.53 ℄ RAMP 2 NOSE
0+48.78 ℄ RAMP 10
26' LT.

632.89
631.45
630.04

628.59

MATCH LINE THIS SHEET

CROWN TO 0.0188½" IN 141.62' WARP GRADE

670 660 650 640 630 620

25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

0.0188½" TO 0.025½" ℄ 40 - WIDTH VAR.

0.025½"

0.025½"

MATCH LINE THIS SHEET

626.74
705+16.56 E.B. 40 (B.K.)
704+38.71 ℄ RTE. 40 (A.H.)
627.47

0.0188½"
624.24

705+51.16 ℄ 40
P.G. 624.48

622.74
621.30

706+21.79 ℄ 40
P.G. 621.81

619.91
618.58

706+52.98 ℄ 40
P.G. 619.35

617.28
616.10

707+03.17 ℄ 40
P.G. 617.11

615.01
613.97

707+53.85 ℄ 40
P.G. 615.08

612.98
612.05

708+04.53 ℄ 40
P.G. 613.26

611.17
610.36

708+55.22 ℄ 40
P.G. 611.66

609.58
608.87

709+05.89 ℄ 40
P.G. 610.27

608.28
607.60

709+70.48 ℄ 40
P.G. 608.82

607.06
606.56

710+07.22 ℄ 40
P.G. 608.11

606.08
605.61

710+57.88 ℄ 40
P.G. 607.15

605.14
604.67

710+66.86 ℄ 40
P.G. 606.60

604.60
604.20

712+09.77 ℄ 40
P.G. 604.27

603.73
603.27

711+59.15 ℄ 40
P.G. 605.23

602.80
602.34

712+60.37 ℄ 40
P.G. 603.30

601.86
601.40

713+10.99 ℄ 40
P.G. 602.34

600.94
600.47

713+64.54
P.G. 601.38

600.01
599.53

713+78.71

599.11
598.72

714+12.10 ℄ 40
P.G. 600.42

598.30
597.95

714+62.63 ℄ 40
P.G. 599.46

597.55
597.14

715+13.03 ℄ 40
P.G. 598.50

596.72
596.30

715+63.16 ℄ 40
P.G. 597.55

595.87
595.46

716+18.71 ℄ 40

595.05
594.65

716+63.43 ℄ 40
P.G. 595.77

594.26
593.95

717+13.60 ℄ 40
P.G. 595.06

593.64
593.35

594.23

53+22.66 ℄ RAMP 2
717+86.47 ℄ RTE. 40
63' RT.

593.12

ELEV. ESTAB. BY ℄ 40 CROSS SL-x OFFSET

See Cross Section

40+48.31 ℄ RAMP 12

606.56 NOSE
+25

604.67
+25

606.74 ℄ RAMP 12
10+49.99
(18' LT.)

604.60 ℄ RAMP 10
(12' RT.)

SEE RTE. 40 CROSS SL.

0.025½" TO 0.0156½" ℄ 40 - WIDTH VAR.

0.0156½" ℄ 40 - WIDTH VAR.

501+22.5

0.0208½" RAMP 2 CROSS SL (24' w)

PROFILE GRADE
RAMP 2
FINAL PLANS

101
103

1544 24 TO 1

AF 35343

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 58
DIST NO. 6	PROJECT NO. IR-IR6-270-5(239)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS

PROFILE — SURVEYED, PLOTTED, CHECKED, NOTE BOOK, NO., BY, DATE, REVISED (SHOW NO. DEVD.)

S.E. TRANS. 021'-RT. TO 06'-RT.

S.E. = 06'-RT.

Result
PG. 58 I-270
2+22.26 Noise
203°-59'-23" B.L. I-270

-0.28%

0+00 Rp. 3
401+23.10 E I-270
(70' RT.)

P.T. 3+50
El. 633.10

240' V.C.
M.O. 0.72
K 108
SSD 420

S.E. = 0.08'-RT.

S.E. TRANS. 08'-RT. TO 08'-RT.

S.E. TRANS. 08'-RT. TO 06'-RT.

S.E. TRANS. 06'-RT. TO 08'-RT.

S.E. TRANS. 06'-RT. TO 06.5'-RT.

S.E. = 0.08'-RT.

+5.0%

-2.7%

+2.0%

-1.50%

620' V.C.
M.O. 5.97
K 80.5
SSD 325'

P.G. WB 10

540' V.C.
M.O. 5.06'
K 72

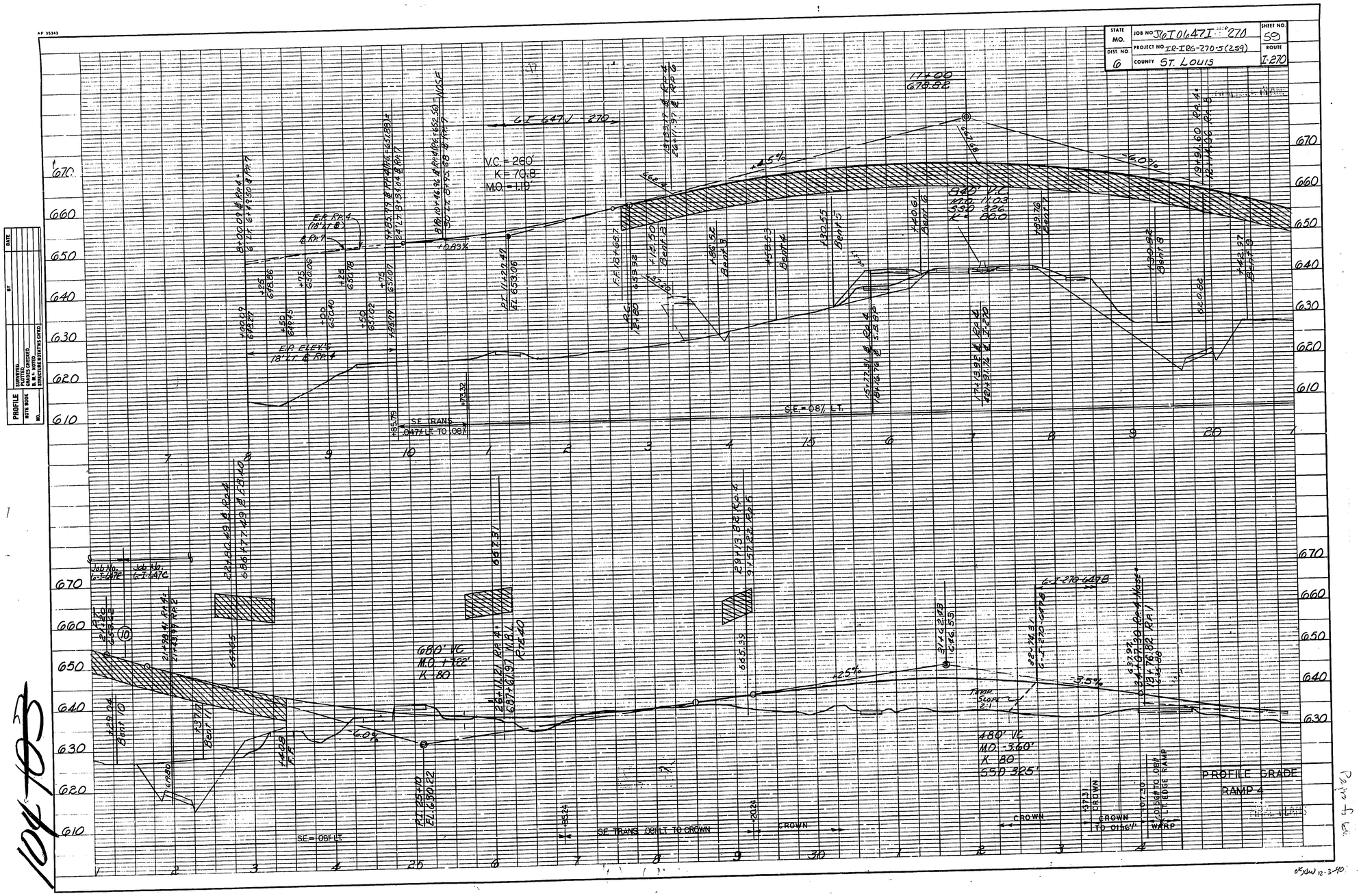
PROFILE GRADE
RAMP 3
FINAL PLANS

103-1822

AF 35343

STATE MO.	JOB NO J6I0647I ... 270	SHEET NO 59
DIST NO 6	PROJECT NO IR-IR6-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWN
CHECKED
STRUCTURE NO(S) & CNTRD.
DATE
BY



10 of 103

Ramp 4

05 JW 12-3-90

1544 24 TO 1

AF 35343

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 60
DIST. NO. 6	PROJECT NO. I-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

PROFILE
SURVEYED
PLOTTED
CHECKED
DRAWN
ALIGN. DESIGNED
R.L.'s NOTED
STRUCTURE DETAILS (SHEET)
NOTE BOOK
NO.
DATE
BY

Resurf. P.G. NB I-270

0+00 Rp 5
4321+45.38 ℄ I-270
(78' Lt.)

Warp Grade

SE. TRANS. 02% TO 06% RT.

-5.50

SE = 06% RT.

210' V.C.
MID. 0.45'
K=12.4
SSD=495'

-3.82%

RAMP 5

SE = 06% RT.

690' V.C.
MID. 7.14'
K=61

-0.90

-3.2%

1.5%

PROFILE GRADE
RAMP 5

105
194

1544 24 TO 1

AF 35343

STATE MO.	JOB NO J6I0647I- 270	SHEET NO 61
DIST. NO 6	PROJECT NO IR-IR6-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
BLACKS CHECKED
& ★ STRUCTURE NOTATIONS CHKD
BY
DATE

1995 1106

6-I270-6478

150' V.C.
M.O. +0.31
K=75.0

Warp Gr. +0.51%

P.I. 8+00
EL. 644.47

+25%

720' V.C.
M.O. 8.10'
K 80
SSD 325'

P.I. 13+05
EL. 674.09

Bent 2
Bent 3
Bent 4
Bent 5
Bent 6
Bent 7
Bent 8
Bent 9
Bent 10
Bent 11

Trap St.

Fin. Gr.

SE -.08% LT.

BENCH MARK (USGS Datum)

B.M. 22.86 - Spike in "T" @ Ground Level 110'± Lt. Sta. 2014+25' near Conway Rd.
Elev. 634.63

450' V.C.
M.O. 1.38'
K=75

220' V.C.
M.O. +0.77'
K=78.9

-0.5%

+3.0%

Revised Grade

P.I. 21+90.36
EL. 634.77

(Bridge)
St. 21+20
EL. 633.12

Temp. Slope

Fin. Gr.

Revised Per 40 Grade

SE. TRANS. .06% TO CROWN

400' V.C.
M.O. -2.48'
K= 80.7
SSD=325'

1.75%

E.P. ELEV'S - 19' Lt. & Rt. 6

SE TRANS: CROWN TO .02% RT.

PROFILE GRADE
RAMP 6
FINAL PLANS

FINAL PLANS

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 62
DIST. NO. 6	PROJECT NO. I2-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

PROFILE
SURVEYED BY
NOTE BOOK
NO.
DRAWN BY
CHECKED BY
R. R.- PLOTTED BY
DATE 3-1-96

Beam 0+00 Fo.7 ℄=667+16.38 EL(R)=640.40 ℄ (24" Pvt)
+00-627.54
+25-628.27
+50-628.99
+75-629.76
+00-630.50
+25-631.21
+50-631.90
+75-632.54
+00-633.18
+25-633.77
+50-634.33
PVC 2+48.35
EL=634.45
+1.44%
P.I. 3+33.35
EL=635.22
P.I. 4+83.35
EL=639.72
5+25.09
4.41%
PVC 5+90.00
EL=645.62
5+40.02
7+35.02
P.T. 8+34.02
P.C. 8+89.06
EL=657.41
3.0%
9+04.04
9+37.51
VC=500'
MG=5.15
K=81.70
SSD=330'
11+02.51
S.E.=0.08% Rt.
S.E. TRANS.=0.0292% to 0.08% Rt.
WARP GRADE
S.E. TRANS.=0.08% to Crown
Crown Section
S.E. TRANS. Crown to 0.0156% Rt.
S.E. 0.0156% Rt.
S.E. TRANS.=0.0156% to 0.07% Rt.
P.T. 11+70.49
EL=648.41
3.0%
P.C. 12+93.08
EL=642.03
VC=330'
MG=1.136'
K=71.70
P.I. 14+58.08
EL=637.07
P.T. 17+23.08
EL=650.37
+1.6%
20+28.25
S.E.=0.07% Rt.
WARP GRADE
S.E. TRANS.=0.07% to 0.0208% Rt.
20+44.34 P.C.
EL=644.94
+50-644.94
+75-645.34
+00-645.72
+25-646.08
546.36
546.36 P.T.
EL=646.46

PROFILE GRADE-RAMP 7

J6I0647I-270

1544 24 TO 1

AF 35343

STATE MO.	JOB NO. JGI0647I - 270	SHEET NO 63
DIST NO. 6	PROJECT NO IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

PROFILE — SURVEYED / PLOTTED / DESIGN CHECKED / BL.& NOTED. / STRUCTURE NOTES PD OR RD — BY — DATE

NOTE BOOK — NO.

FINAL PLANS

08% S.E. LT.

S.E. TRANS. 01% RT. TO 08% LT.

S.E. TRANS. 08% LT. TO 0156% LT.

S.E. TRANS. 0156% LT. TO 08% LT.

150'

08% S.E. LT.

+5.00

+1.76

+1.82

+1.82

670
660
650
640
630
620
610

5 6 7 8 9 10 1 2 3 4 15 6 7 8 9 20

6+33.73 RP. 18° E
6+33.73 RP. 5

8+77.25 APEX
8+74.59 RP. 5

9+59.85

12+14.06 RP. 8
19+91.60 RP. 1

12+39.93
21+19.70

300' VC
M.O. +0.64
K= 176

Warp Gr.
P.G. Rp. 5
-1.0%

6+20.68 RP. 8
6+47.50 RP. 8 APEX
6+74.10

6+32.10

10+42.52 RP. 8
20+74.79 RP. 5 I-270

640.70
+1.82

-0.3%

18+42.15 RP. 8
18+62.82 RP. 8

18+36.79 RP. 8
18+51.12 RP. 8 APEX
18+76.40

663.76

I-270

+1.95

(642.57)
20+87.05 RP. 8E
21+14.38 RP. 6

6+18.26

21+21.85 SE
21+61.70

350' VC.
M.O. +2.10
K= 72.9

+1.5%

-0.3%

08% S.E. LT.

S.E. TRANS. 08% LT. TO 01% RT.

LT. E.P. ON S.E. TRANS. 0.01% RT. TO 0.08% RT.

23+91.47

24+88.16 RP. 8 NOSE
25+76.12 RP. 3 NOSE

633.42

+1.59%

+1.5%

270' VC
M.O. -1.01'
K: 90
550-355'

26+19.11

20+09.14 RP. 8°
17+39.90 RP. 3
6+36.21

P.G. RP. 3

PROFILE GRADE
RAMP 8

FINAL PLANS

187168

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 64
DIST. NO. 6	PROJECT NO. IR-IR6-270-5(259	ROUTE 270
	COUNTY ST LOUIS	

PROFILE — HORIZONTAL PLOTTED 10 TIMES VERTICAL — WERE MADE — BY — DATE

Exist E.P. - I-270

644.99 427.57 | 644.69 427.06 | 644.49 426.55 | 644.28 426.03

640 630

0+00 1 2 3 4 5 6 7 8 9 10 11

BY-PASS 7A

9+19 0.04%

6+34 0.02%

6+60 0.02%

7+60 FLAT

8+90 FLAT

P.I. 8+75 EL. 633.00

250' V.C. K = 7.8 MO = 1.08

+1.5 END GRADING

Exist EP B.P. 7

23.5%

6338.32 6337.25

6336.75 6336.32

6338.96 6338.42

6339.27 6340

200' K = 39 MO = 1.29

-1.39

+3.77

9+35.87 631.88

6336.42 6335.87

6337.31 FLAT

6338.59 6338.59

6337.71 6337.71

BY PASS 7A 11+75 4467

11+00 EL. 631.41

Revised BP 7A

Grade to Template Job 647.1
Build Point = Job 627.4

PROFILE GRADE BY PASS 7A STAGE I

188.102

1544 24 TO 1

AF 35343

STATE MO.	JOB NO J6I0647I-270	SHEET NO 65
DIST NO 6	PROJECT NO I-IT(6)-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

PROFILE
NOTE BOOK
NO.

	DATE
CONVERTED	
PLOTTED	
DRAWN, CHECKED, & TRACED	BY
STRUCTURE NOTATIONS CHTD.	

397+83.15 Outer Rd. (I-270)
177+20 Conway Rd. (I-270)

390' V.C.
M.O. +2.05
K 92.6

P.I. 400+00
El. 610.16

-1.21%

+2.0%

+3.0%

P.I. 406+32.89
El. 630.65

800' V.C.
M.O. -5.35
K-150
SSD 445'

-2.35%

SE TRANS. CROWN TO .08½ RT.

SE=.08½ RT.

SE TRANS .08½ RT. TO CROWN

SE TRANS. CROWN TO .08½ RT.

SE=.02½ RT.

SE TRANS .02½ RT. TO CROWN

SE=.08½ RT.

SE TRANS .08½ RT. TO .02½ RT.

SE=.02½ RT.

400 1 2 3 4 405 6 7 8 9 410 1 2

415 6 7 8 9 420 1 2 3 4 425 6 7

430 6 6 5 5 4 4 3 3 2 2 1 1 435 6 7 8 9

640 630 620 610 600 590 580

1092.110

Mod. "A" C.M.B.

Y+40 - End 126 ft. Wall - Begin Mod. Type "A" C.M.B.

Y+48.17

Sta. 430+67.68 24"ø
El. 601.37

SQ

Sta. 430+95.54 Ahd.

-4.0%

-1.0%

Y+60

659+60 - End Wall
El. 598.35

Meet Exist. Wall End Conn. St.

N.O. R.D.W.Y.

Job No. 6-11-40.402 (U.I.P.)

ABO' V.C.
M.O. +2.82
K-102

P.I. 419+50
El. 600.87

+2.35%

760' V.C.
M.O. 609'
K 120
SSD 400'

Sta. 659+67.45
El. 617.45

PROFILE GRADE
NORTH FORTY DR.
(N. OUTER ROADWAY)
(50 M.P.H.)

FINAL PLANS

1544 24 TO 1

AF 35343

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 66
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
CALCS CHECKED
FINAL LINE ESTATYS CHKD
BY
DATE
NO.

Job No. 6U40402 | Job No 6I 6471 270

640 630 620 610 600 590 580 640 630 620 610 600 590 580

PT 660+30.91
El. 620.01

+3.4%

300' V.C.
M.O. = 0.60'
K = 187
S.S.D. = 365'

+5.0%

PT 655+49.25
El. 599.25

PVI 660+00.00
El. 609.00

500' V.C.
M.O. 1.94
K 161.29
S.S.D. 462

+0.3%

PT 665+54.82
El. 620.02

PVI 665+04.82
El. 620.17

PT 665+59.32
El. 620.19

CROWN TO OBV RT

S.E. TRANS (235')
108'± RT.

S.E. = 108'± RT.

+60.64

+20.12

655 6 7 8 9 660 1 2 3 4 665 6 6667 415 2 3 4

PT 665+59.40
El. 620.20

+0.8%

+3.75%

400' V.C.
M.O. 1.72
K 116

PT 666+01.76.23
El. 620.86

400' V.C.
M.O. 1.40'
K 136
S.S.D. 425'

+0.3%

S.E. TRANS. (235')
OBV TO CROWN

SE = 108' RT

SE TRANS CROWN TO OBV RT

SE = 108' RT

+60.64

+20.12

+60.64

+20.12

415 6 7 8 9 420 1 2 3 4 425 6 7 8

PT 433+00
El 645.83

+0.8%

2.32%

450' V.C.
M.O. 2.03'
K 121
S.S.D. 400

+3.5%

PVI 433+76

SE = 108' RT

SE TRANS OBV TO CROWN

+60.64

+20.12

430 1 2 3 4 435 6 7 8 9 440

PROFILE GRADE
SOUTH FORTY DR
(S. OUTER ROADWAY)
(50 MPH)

FINAL LINE

1544 24 TO 1

STATE MO.	JOB NO J6I0647I - 270	SHEET NO. 67
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

MATCH LINE SEE SHEET

S 4°49'14.4"W EXIST ℄ RTE I-270 S 4°49'14.4"W EXIST. ℄ RTE I-270 S 4°49'14.4"W

412+30.19 ℄ I-270 = 13+56.57 ℄ RP. 6

415+18.99 ℄ I-270 = 682+81.67 ℄ W.B.L.

416+98.45 ℄ I-270 = 16+99.74 ℄ RP. 2

417+06.60 ℄ I-270 = 682+59.01 ℄ RTE. 40

417+14.75 ℄ I-270 = 16+45.62 ℄ RP. 8

421+91.76 ℄ I-270 = 17+13.92 ℄ RP. 4

418+96.08 ℄ I-270 = 682+51.25 ℄ E.B.L.

FINAL PLANS

RAMP 3 — S 1°36'18.7"E — CV N.F.D.-1 — P.C. N.F.D.-1 — 401+23.10 ℄ I-270 = P.C. 0+00 ℄ RP. 3 = 78' RT.(3-1)

6+57.11 ℄ RP. 2 = 6+57.11 ℄ RP. 3

S 47°33'45.5"W — P.T. N.F.D.-1 — 410

RAMP 2 — 12+69.21 ℄ RP. 2 = 16+40.97 ℄ RP. 6 — 70°24'35.4" T.C. — P.C. 2-1

RAMP 6 — S 42°53'52.0"E — N 42°53'52.0"W — 18+14.38 ℄ RP. 6 = 20+87.05 ℄ RP. 8 — CV 6-2 — 70°30'59.4" T.C. — CV WBL-2

681+21.11 ℄ W.B.L. = 14+67.61 ℄ RP. 2 — 120°36'13.5" T.C. — P.C. 2-1

680+51.12 ℄ W.B.L. = 19+36.79 ℄ RP. 6

678+64.60 ℄ W.B.L. = 19+03.44 ℄ RP. 6

55°36'18.3" T.C.

S 27°49'09.7"W

RAMP 8 — S 16°01'32.9"E — N 82°03'01.6"E — S 67°15'26.0"W — CV 8-2

RAMP 3 — N. FORTY DR. (N. OUTER ROADWAY) — P.C. 415 N.F.D.-2 — S 47°33'45.5"W — RP. 3 — RP. 8

POC 17+83.90 ℄ RP. 8 = POT 26+99.14 ℄ RP. 3 — N.F.D.-2

N 89°52'15.7"E — P.T. W.B.L.-1 — P.C. W.B.L.-2 — W.B.L. 40 — EXIST. ℄ RTE. 40 — S 89°52'15.7"W — S 82°03'01.6"W — N 89°56'58.4"E

P.C.C. N.F.D. 2 ℄ 3 — POC. 668+31.76 ℄ W.B.L. = P.T. 22+87.15 ℄ RP. 3-2 (3-1) — LT.

(N. OUTER ROADWAY) ℄ N. FORTY DR. — 660 — 660+35.54 AH. ℄ EQUA. = P.T. 430+57.63 BK. EQUA. (100'-5" LT.) — 430 — 661+50 BK. = 661+50.50 AH. EXIST. RTE. 40 — N 89°56'58.4" W. — ℄ W.B.L.

℄ EXIST. RTE. 40 — S 89°56'58.4"E — ℄ E.B.L.

(S. OUTER ROADWAY) ℄ S. FORTY DR. — 661+50 ℄ S.F.D. (100'5"RT.) = 661+50.5 AH. ℄ RTE. 40 = 661+48.24 ℄ E.B.L. (43' RT.) = 661+50 ℄ W.B.L. (43' LT.)

MATCH LINE THIS SHEET — 663+13.81 ℄ W.B.L. P.C. W.B.L.-1 = 663+14.31 ℄ RTE. 40-43' LT.

RAMP 6 — S 16°01'32.9"E — CV 7-3 — 13+33.17 ℄ RP. 1 = 26+11.97 ℄ RP. 6 — 30

RAMP 7 — POT 32+51.72 ℄ RP. 7 (L.T.) = PCC 17+21.41 ℄ RP. 6 (L.T.) (3-4) — P.T. 432+15.32-S.F.D.-4 = 140' RT. ℄ I-270 — P.T. 21+44.34-CV. 7-4 = 432+48.35 ℄ I-270 = 78' RT.

CV 7-4 — CV S.F.D.-4 — CV 7-3 — CV 7-2 — CV 7-1 — CV 4-1 — CV S.F.D.-3 — CV S.F.D.-2 — CV S.F.D.-1 — CV EBL-2 — CV EBL-1 — CV WBL-1 — CV WBL-2 — CV 8-2

RAMP 4 — S 19°02'35.8"E — S 45°11'05.3"E — P.C. S.F.D.-4 — P.C. S.F.D.-1 — P.T. S.F.D.-3 — P.C. S.F.D.-3 — P.C.C. S.F.D.-2 — P.C.C. S.F.D.-3 — P.C.C. S.F.D.-1&2 — CV SFD-1 — PC 7-1 + PC. SFD-1 = 411+90.12 S.F.D. AHD (100'5" RT.) = EQUA. — 667+65.64 S.F.D. BK. = 667+66.14 ℄ RTE. 40 = 0+00 RP. 7 (67' RT.)

RAMP 7 — S. FORTY DR. (S. OUTER RDWY.) — 420 — 425 — 430 — 435

(S. OUTER RDWY.) S. FORTY DRIVE CURVE S.F.D.-1	
P.I.	412+60.17
Δ	4°07'23.0"RT.
D	5°09'00.7"
T	40.05'
L	80.06'
R	1112.50'
E	
S.E.	0.08%
P.C.	412+20.12
P.C.C.	413+00.18
Ls	SEE PROFILE

E.B.L. RTE. 40 CURVE E.B.L.-1	
P.I.	670+64.98
Δ	12°RT.
D	2°
T	301.10'
L	600.00'
R	2864.79'
E	
S.E.	0.05'/'
P.C.	667+63.88
P.T.	673+63.88
Ls	SEE PROFILE

E.B.L. RTE. 40 CURVE E.B.L.-2	
P.I.	678+99.53
Δ	12°LT.
D	1°30'
T	401.47'
L	800.00'
R	3819.72'
E	
S.E.	0.04'/'
P.C.	673+65.76
P.C.C.	681+65.76
Ls	SEE PROFILE

W.B.L. RTE. 40 CURVE W.B.L.-1	
P.I.	667+14.46
Δ	8° LT.
D	1°
T	400.65'
L	800.00'
R	5729.58'
E	13.99'
S.E.	0.025%
P.C.	663+13.81
P.T.	671+13.81
Ls	SEE PROFILE

W.B.L. RTE. 40 CURVE W.B.L.-2	
P.I.	678+57.99
Δ	10° RT.
D	1°
T	501.27'
L	1000.00'
R	5729.58'
E	21.89'
S.E.	0.025%
P.C.	673+56.72
P.C.C.	683+56.72
Ls	SEE PROFILE

(N. OUTER RDWY.) N. FORTY DRIVE CURVE N.F.D.-1	
P.I.	405+90.26
Δ	49° 10'04.2"
D	6°00'
T	436.88'
L	819.46'
R	954.93'
E	95.12'
S.E.	0.08%
P.C.	401+53.38
P.T.	409+72.64
Ls	SEE PROFILE

RAMP 2 CURVE 2-1	
P.I.	12+38.57
Δ	70°23'01.7"LT.
D	8°
T	505.07'
L	879.80'
R	716.20'
E	160.18'
S.E.	0.08%
P.C.	7+33.50
P.T.	16+13.30
Ls	SEE PROFILE

RAMP 3 CURVE 3-1	
P.I.	13+74.85
Δ	80°03'01.3"RT.
D	3°30'
T	1374.85'
L	2287.15'
R	1637.02'
E	500.75'
S.E.	SEE PROFILE
P.C.	0+00
P.T.	22+87.15
Ls	SEE PROFILE

(N. OUTER RDWY.) N. FORTY DRIVE CURVE N.F.D.-2	
P.I.	418+86.43
Δ	34°29'16"
D	4° 30'
T	395.20'
L	766.40'
R	1273.24'
E	59.92'
S.E.	0.08%
P.C.	414+91.23
P.C.C.	422+57.63
Ls	SEE PROFILE

RAMP 4 CURVE 4-1	
P.I.	14+14.80
Δ	65°32'27.5" LT
D	6°
T	614.71'
L	1092.35'
R	954.93'
E	
S.E.	0.08'/'
P.C.	8+00.09
P.C.C.	18+92.44
Ls	SEE PROFILE

RAMP 7 CURVE 7-1	
P.I.	0+71.25
Δ	4°07'23.0"RT
D	5°
T	41.25'
L	82.46'
R	1145.92'
E	
S.E.	0.08'/'
P.C.	0+30.00
P.C.C.	1+12.46
Ls	SEE PROFILE

RAMP 6 CURVE 6-2	
P.I.	20+79.59
Δ	100°46'28.7" LT.
D	9°05'08.26"
T	761.95'
L	1109.17'
R	630.62'
E	358.44'
S.E.	0.08'/'
P.C.C.	13+17.64
P.T.	24+26.80
Ls	SEE PROFILE

RAMP 8 CURVE 8-2	
P.I.	22+48.93
Δ	70°10'42" LT.
D	8°
T	503.15'
L	877.23'
R	716.20'
E	159.07'
S.E.	0.08%
P.C.	17+45.78
P.T.	26+23.01
Ls	SEE PROFILE

(N. OUTER RDWY.) N. FORTY DRIVE CURVE N.F.D.-3	
P.I.	426+56.27
Δ	8°00'
D	1°00'
T	400.65'
L	800.00'
R	5729.58'
E	13.99'
S.E.	0.02%
P.C.C.	422+57.63
P.T.	430+57.63
Ls	SEE PROFILE

(S. OUTER RDWY.) S. FORTY DRIVE CURVE S.F.D.-2	
P.I.	414+27.05
Δ	19°42'16.7"RT
D	7°50'35.1"
T	126.87'
L	251.24'
R	730.53'
E	
S.E.	0.08'/'
P.C.C.	413+00.18
P.C.C.	415+51.41
Ls	SEE PROFILE

(S. OUTER RDWY.) S. FORTY DRIVE CURVE S.F.D.-4	
P.I.	428+42.30
Δ	47°43'40.5"
D	6°00'
T	422.45'
L	795.47'
R	954.93'
E	89.27'
S.E.	0.08%
P.C.	424+19.85
P.T.	432+15.32
Ls	SEE PROFILE

RAMP 7 CURVE 7-2	
P.I.	3+65.42
Δ	36°38'30.1"RT
D	7°30'
T	252.96'
L	488.56'
R	763.94'
E	
S.E.	0.08'/'
P.C.C.	1+12.46
P.T.	6+01.02
Ls	SEE PROFILE

(S. OUTER RDWY.) S. FORTY DRIVE CURVE S.F.D.-3	
P.I.	416+73.43
Δ	23°12'52.6"RT
D	9°38'43.2"
T	122.02'
L	240.68'
R	594.03'
E	
S.E.	0.08'/'
P.C.C.	415+51.41
P.T.	417+92.10
Ls	SEE PROFILE

RAMP 7 CURVE 7-3	
P.I.	13+75.42
Δ	33°09'32.4"RT
D	4°34'27.4"
T	372.92'
L	724.90'
R	1252.56'
E	
S.E.	0.07'/'
P.C.	10+02.51
P.C.C.	17+27.41
Ls	SEE PROFILE

RAMP 7 CURVE 7-4	
P.I.	19+38.20
Δ	20°50'47.3"RT
D	5°
T	210.80'
L	416.93'
R	1145.92'
E	
S.E.	0.07'/'
P.C.C.	17+27.41
P.T.	21+44.34
Ls	SEE PROFILE

SCALE 300' 200' 100' 0 100'

GEOMETRIC SHEET AND CURVE DATA FOR FINAL PLANS

SPECIAL SHEET 1 OF 16

FINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO — DATE — BY

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO — DATE — BY — Rev. L&K

1544 24 TO 1

STATE MO.	JOB NO. J6I06-71-21C	SHEET NO. 68
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

MATCH LINE SEE SHEET

EXIST. ℄ RTE. JJ

NOTE: SEE SH. NO. — FOR TIE STATIONS ON RTE. JJ

N 0° 30' 38.6" E

CONST. ℄ RTE. JJ

0+00 RELOC. RCE. = 122+97 RTE. JJ

P.C. RELOC. RCE. 0+95.66

N 89°29'21.4" W

CV-1

P.T. RELOC. RCE. 2+01.03

N 54°59'21.4" W

P.C. RELOC. RCE. 3+81.28

CV-2

P.T. RELOC. RCE. 4+69.60

S 80°17'30.3" E

P.C. RELOC. RCE. 6+47.31

CV-3

P.T. RELOC. RCE. 8+66.81

P.C. 26+36.16 ℄ RP. 2-2-3

P.T. 16+72.01 ℄ RP. 5-12' RT

P.C. RELOC. RCE. 9+43.21

CV-4

P.T. RELOC. RCE. 11+40.84

EQUA

26+34.61 ℄ RP. 2 BK. =

26+36.16 ℄ RP. 2 AH.

S 39°50'53.4" W

N 66°23'17.7" E

686+94.89 ℄ E.B.L. 0+00 ℄ RAMP 5 12' RT.

P.C. 5-2

P.T. 5-1

CV. 5-2

13+33.98 ℄ RP. 9 = 124+24.36 CONST. ℄ JJ

P.T. E.B.L.-4 P.T. RP. 2-2-5 (44° R.T.)

RAMP 2

S 89°56'58.4" E

P.T. W.B.L.-4 - 696+47.19 = 696+29.96 ℄ EXIST. RTE. 40 39° RT.

695+73.42 ℄ W.B.L. P.C. 0+00 ℄ RP 1 24' LT.

E.B.L. 40

CV. E.B.L.-4

CV. 2-3

CV. W.B.L.-4

W.B.L. 40

EXIST. RTE. 40

N 88°28'21" W

P.C. E.B.L.-4

P.T. W.B.L.-4

RAMP 1

CV. 1-1

S 5°58'22" E 5+58.22 P.C. 6-1

16° 00' 00"

S 38°42.6" W

P.T. W.B.L.-3

N 49°23'54.3" W

122°21'10.9"

P.C. 12

RAMP 4

CV. 6-1

RAMP 6

S 84°44'55.7" W

S 87°56'56.4" E

CV W.B.L.-3

S 79°

687+61.37 ℄ W.B.L. 26+11.21 ℄ RP 4

154°54'58.2" T.C.

N 80°09'30.3" W

686+77.49 ℄ E.B.L. 22+80.49 ℄ RP 4

CV. 2-2-2

N 27°00'04.2" E

684+94.30 ℄ E.B.L. 19+26.82 ℄ RP 2

RAMP 8

69°39'50.0" T.C.

19+91.60 ℄ RP 4

12+14.06 ℄ RP 8

P.C.C. 1-1 & 4-1

684+05.06 ℄ E.B.L. 14+20.68 ℄ RP 8

418+96.08 ℄ I-270 682+51.25 ℄ E.B.L.

421+91.76 ℄ I-270 17+41.92 ℄ RP 4

N 46°37'48.8" E

CV. 5-1

RAMP 5

N 4°49'14.4" E

6+33.73 ℄ RP 5 6+33.73 ℄ RP 6

432+45.33 ℄ I-270 P.C. 1-1 & 4-1 76' LT. (6-1)

401+57.33 ℄ I-270 P.T. 20+02.09 ℄ RP 1-78' LT.

RAMP 1 N 4°49'14.4" E

CV. 1-2

15+88.83 ℄ RP. 1 36+22.89 ℄ RP. 4 (6' LT.)

S 4°49'14.4" W

EXIST. ℄ I-270

MATCH LINE SEE SHEET

103°36'28.9" T.C.

P.C.C. 6-1 & 2

412+30.19 ℄ I-270 14+26.57 ℄ RP. 6

W.B.L. 2-3

85°33'47.2"

86°28'45.4" T.C.

415+18.99 ℄ I-270 662+81.61 ℄ W.B.L.

416+98.45 ℄ I-270 16+99.74 ℄ RP. 2

47°23'06.4"

417+14.75 ℄ I-270 16+45.62 ℄ RP. 6

95°37'30.4" T.C.

417+06.60 ℄ I-270 682-59.01 ℄ RTE 40

S 4°49'14.4" W

7°19'52.3" T.C.

EXIST. ℄ I-270

SCALE 300' 200' 100' 0 100'

W.B.L. RTE. 40 CURVE W.B.L.-3
P.I. 686+40.57
Δ 8°30' RT.
D 1° 30'
T 283.85'
L 566.67'
R 3819.72'
E 10.53'
S.E. 0.04%
P.C.C. 683+56.72
P.T. 689+23.39
Ls SEE PROFILE

W.B.L. RTE. 40 CURVE W.B.L.-4
P.I. 693+85.43
Δ 10°30 LT.
D 2°
T 263.24'
L 525.00'
R 2864.79'
E 12.07'
S.E. 0.05%
P.C. 691+22.15
P.T. 696+47.19
Ls SEE PROFILE

RAMP 1 CURVE 1-1
P.I. 4+33.64
Δ 55°49'44.5 RT.
D 7°
T 433.64'
L 797.56'
R 818.51'
E 107.78'
S.E. 0.08%
P.C. 0+00
P.T. 7+97.56
Ls SEE PROFILE

RAMP 1 CURVE 1-2
P.I. 16+41.37
Δ 37°27'57" RT.
D 5°
T 388.60'
L 749.32'
R 1145.92'
E 64.10'
S.E. 0.08%
P.C. 12+52.77
P.T. 20+02.09
Ls SEE PROFILE

RAMP 4 CURVE 4-2
P.I. 24+32.15
Δ 81°06'59.4" LT.
D 9°05'08.26"
T 539.71'
L 892.80'
R 630.62'
E 199.42'
S.E. 0.08%
P.C.C. 18+92.44
P.T. 27+85.24
Ls SEE PROFILE

RAMP 6 CURVE 6-1
P.I. 9+59.59
Δ 45°51'10" LT.
D 6°02'16.57"
T 401.36'
L 759.41'
R 948.93'
E 81.39'
S.E. 0.08%
P.C. 5+58.23
P.C.C. 13+17.64
Ls SEE PROFILE

RELOC. R.C.E. CV-3
P.I. 7+69.91
Δ 31°29'57.9" LT.
D 14°21'01.9"
T 112.60'
L 219.50'
R 399.26'
E 15.57'
S.E. CROWN
P.C. 6+47.31
P.T. 8+66.81

RELOC. R.C.E. CV-4
P.I. 10+44.10
Δ 28°21'38.4" LT.
D 14°21'01.9"
T 100.88'
L 197.63'
R 399.26'
E 12.55'
S.E. CROWN
P.C. 9+43.21
P.T. 11+40.84

RAMP 9 CURVE 9-1
P.I. 3+00.69
Δ 14°56'56.8"
D 2°30'
T 300.69'
L 597.96'
R 2291.83'
E
S.E. 0.03'/'
P.C. 0+00
P.T. 5+97.96
Ls SEE PROFILE

RAMP 2 CURVE 2-4
P.I. 27+11.97
Δ 14°54'52.1" RT.
D 7°06'07.7"
T 105.60
L 210.00'
R 806.74'
E 6.88'
S.E. 0.08%
P.C. 26+06.37
P.T. 28+16.37(BK).
Ls NONE

RAMP 2 CURVE 2-5
P.I. 30+66.74
Δ 10°
D 2°01'52.3"
T 246.79'
L 492.32'
R 2820.79'
E 10.76'
S.E. 0.06%
P.C. 28+19.95(AHD.)
P.T. 33+12.27
Ls SEE PROFILE

RELOC. R.C.E. CV-1
P.I. 1+50.00
Δ 34°30' RT.
D 32°44'26"
T 54.34
L 105.37
R 175.00
E 8.24
S.E. CROWN
P.C. 0+95.66
P.T. 2+01.03

E.B.L. RTE. 40 CURVE E.B.L.-3
P.I. 686+67.03
Δ 10° LT.
D 1°
T 501.27'
L 1000.00'
R 5729.58'
E 21.89'
S.E. 0.025%
P.C.C. 681+65.76
P.T. 691+65.76
Ls SEE PROFILE

RAMP 2 CURVE 2-2
P.I. 22+52.22
Δ 69°13'36.2" LT.
D 8°
T 494.32'
L 865.33'
R 716.20'
E 154.03'
S.E. 0.08%
P.C. 17+57.90
P.T. 26+23.24
Ls SEE PROFILE

RAMP 5 CURVE 5-1
P.I. 6+25.27
Δ 41°48'34.4"
D 3°30'
T 625.27'
L 1194.56'
R 1637.02'
E 115.35'
S.E. 0.06%
P.C. 0+00
P.T. 11+94.56
Ls SEE PROFILE

RELOC. R.C.E. CV-2
P.I. 4+26.17
Δ 25°18'09" LT
D 28°38'52"
T 44.89
L 88.32
R 200.00
E 9.79
S.E. CROWN
P.C. 3+81.28
P.T. 4+69.60

E.B.L. RTE. 40 CURVE E.B.L.-4
P.I. 695+30.98
Δ 10° RT.
D 2°
T 250.64'
L 500.00'
R 2864.79'
E 10.94'
S.E. 0.05%
P.C. 693+80.34
P.T. 697+80.34
Ls SEE PROFILE

RAMP 2 CURVE 2-3
P.I. 29+78.37
Δ 21°50'29.8" RT
D 3°13'49.7"
T 342.21'
L 676.11'
R 1773.60'
E 32.71'
S.E. 0.08%
P.C. 26+36.16
P.T. 33+12.27
Ls SEE PROFILE

RAMP 5 CURVE 5-2
P.I. 14+67.53
Δ 21°34'42.9" RT.
D 5°12'47.0"
T 209.45'
L 413.93'
R 1099.08'
E 19.78'
S.E. 0.06%
P.C. 12+58.08
P.T. 16+72.01
Ls SEE PROFILE

RAMP 8 CURVE 8-1
P.I. 12+06.51
Δ 69°33.582 LT.
D 8°
T 497.45'
L 869.57'
R 716.20'
E 158.81'
S.E. 0.08%
P.C. 7+09.06
P.T. 15+78.63
Ls SEE PROFILE

GEOMETRIC SHEET AND CURVE DATA
FINAL PLANS
SPECIAL SHEET 2 OF 16

ORIGINAL SURVEY | REVISED | FINAL SURVEY | SURVEYED | PLOTTED | NOTE BOOK | AREAS | AREAS CHECKED | NO. | BY | DATE

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 69
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

MATCH LINE
SEE SHEET

EXIST. ℄ RTE. JJ

CONST. ℄ RTE. JJ

N0° 30' 38.6"E

177.13

+104.41

POINT "208"
COPPERWELD 4" DEEP
LOCATED 200'± W. OF JCT.
40 ℄ BALLAS RD. 10.2' N.
OF N. EDGE RTE. 40.
X=516046.757
Y=1021469.907

"X" ON SIGN BASE

"208"

+52.61
57.49'

700+29.28 ℄ RTE. 40
127+48.34 ℄ RTE. JJ
X=516223.377
Y=1021412.258
743

POINT "D"
80d SPIKE BURIED 1/2"
9.0'± FROM N. EDGE OF
WESTBOUND RTE 40.
X=515279.578
Y=1021458.751

N & W CRAB APPLE

CONC. DT.

"D"

"X" IN '55 MPH' SIGN

POINT "E"
80d SPIKE AT BASE
OF CONC. ISLAND 50.0'±
S. OF MO. BAPTIST HOSP.
PERSONNEL OFFICE
X=515509.980
Y=1021145.872

MO. BAPTIST HOSP. PERS. OFF.

"X" ON MH RIM

"X" IN CONC. ISLANDS

+16.12
267.02'

"E"

POINT 207
COPPERWELD 4" DEEP
LOCATED IN MEDIAN OF
I-270 AT N.E. END OF
BRIDGE # A-1053 OVER
RTE. 40.
X=514451.924
Y=1021527.672

N.B. I-270

"207"

S.B. I-270

+85.44
45.66'

"D"

S 89° 56' 58.4"E
EXIST. RTE. 40

POINT "301"
COPPERWELD 6" DEEP
LOCATED 6/10 MI. S. OF
JCT I-270 ℄ 40. 65.2'
E. OF E. EDGE I-270 AT
STAMPED STATION 446+00.
X=514327.836
Y=1018513.497

WILD CHERRY

SWEET LOCUST

"301"

E.P. N.B. I-270

6" ELM

"204"
2" ASH

COTTON WOOD STUMP

E.P. N.B. I-270

POINT 204
COPPERWELD 6" DEEP
LOCATED 1 9/10 MI. S.
OF JCT. 270 ℄ 340.
4/10 MI. N. OF JCT. 40
℄ 270. 79.0' E. OF EAST
EDGE I-270 AT STAMPED
STA. 394+00.
X=514779.703
Y=1023709.056

POINT "H"
80d SPIKE BURIED
3"± 33.0'± E. OF E.
EDGE N.B. I-270
X=514422.517
Y=1019874.295

N & W 3" OAK

N & W 2" TWIN RED BUD

"H"

E.P. N.B. I-270

℄ RAMP 1

℄ RAMP 2

℄ RAMP 4

℄ RAMP 5

℄ RAMP 6

℄ RAMP 8

℄ RAMP 9

EXIST. ℄ I-270

EXIST. ℄ I-270
S 4° 49' 14.4"W

MATCH LINE
SEE SHEET

417+06.60 ℄ I-270
682+59.01 ℄ RTE. 40
X=514453.108
Y=1021413.816
741

SCALE
300' 200' 100' 0 100'

TRAVERSE TIE POINTS
MODIFIED COORDINATES
FINAL PLANS

SHEET 3 OF 16

FINAL SURVEY — NOTE BOOK — SUBMITTED — PLOTTED — TEMPLATE — AREAS CHECKED — NO. — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NO. — BY — DATE

113

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I -270	SHEET NO. 70
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY Kay Lee
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	

270 + 400.00

417+06.60 ℄ I-270
682+59.01 ℄ RTE. 40
X = 514453.108
Y = 1021413.816

S 4°49' 14.4"W

+102.48 136.09'
+111.45 236.10
+93.32 111.58'

"207"

POINT "G"
80d SPIKE BURIED 3" 21'± FROM W. EDGE OF RAMP FROM S.B. I-270 TO W.B. RTE. 40
X = 514410.2872
Y = 1022525.464

N & W IN 3 RUSSIAN OLIVE TREES
15.82' 103° 20.69'
4" 3" 4"
FENCE

"999" SUB. PT.
SPIKE 3" DEEP LOCATED ON W. OUTER RD. OF I-270 2/10 MI. N. OF JCT. 40/270.
X = 514301.471
Y = 1022425.289

"X" ON CHAIN LINK FENCE POST
13.3'
"999"
E.P. W.O.RD.

POINT 207
COPPERWELD 4" DEEP LOCATED IN MED OF I-270 AT N.E. END OF BR. A1053 OVER RTE. 40.
X=514451.924
Y=1021527.672

N.B. I-270
29.1'
"207"
80.0'
S.B. I-270

POINT "F"
80d SPIKE BURIED 3" 2.0'± S. OF S. SHLDR. OF RAMP FR. S.B. I-270 TO W.B. RTE. 40.
X=513436.780
Y=1021530.048

E.P. W.B. 40
90.00'
"F"
18.54'
40.90'
E.P. RAMP FR. S.B. I-270

"F" +42.58
115.34'

POINT "206"
COPPERWELD 4" DEEP LOCATED 1 4/10 MI. E. OF JCT. 40 & MASON RD 6.0' N. OF N. EDGE OF N. O. RD.
X=512430.222
Y=1021532.404

10" ELM
WOOD F. COR. POST
P.P.
85.5'
38.8'
58.7'
"206"
E.P. N.O.RD.

POINT "39"
80d SPIKE 5" DEEP 37.5 N. OF N.O.RD., 59.0'± W. OF ENT. TO HSE. # 12407
X=512135.037
Y=1021553.394

"39"
4.1'
51.06'
51.13'
X 5
ON CONC. ENT. HSE. 12407
E.P. NORD.

"39"
660
660+35.54 AH. ℄ N.F.D. = EQUA.
430+57.63 BK. ℄ N.F.D.
430
661+50.50 AH. EXIST. ℄ RTE. 40
661+36.81 BK.
116.81'
+36.02
"206"

℄ N. FORTY DR.
137.54'
+40.32
℄ EXIST. RTE. 40
S 89°56'58"E
X=512344.599
Y=1021415.673
℄ S. FORTY DR.
"I"
℄ W.B.L.
℄ E.B.L.

661+50.5 AH. ℄ RTE. 40 =
661+48.24 ℄ E.B.L. (43' RT.)
661+50 ℄ W.B.L. (43' LT.)

MATCH LINE THIS SHEET

411+90.12 AHD. SFD = EQUA
667+66.14 BK. (100'5" RT. ℄ 40)

90.72'
+52.06
"40"

POINT "40"
80d SPIKE 4" DEEP 15.6' S. OF S.O.RD. IN FRONT OF 1 STY. BRICK HSE. # 12380
X = 512646.081
Y = 1021324.685

N & W
21.10'
CURB
2.02'
9.48'
"40"
HSE.
S.O. RD.
N & W IN JT.

℄ RAMP 2
℄ RAMP 3
℄ RAMP 4
℄ RAMP 6
℄ RAMP 7
℄ RAMP 8
℄ W.B.L.
℄ EXIST. RTE. 40
℄ N. FORTY DR.
℄ S. FORTY DR.

MATCH LINE THIS SHEET

SCALE
300 200 100 0 100

TRAVERSE TIE POINTS
MODIFIED COORDINATES

FINAL PLANS

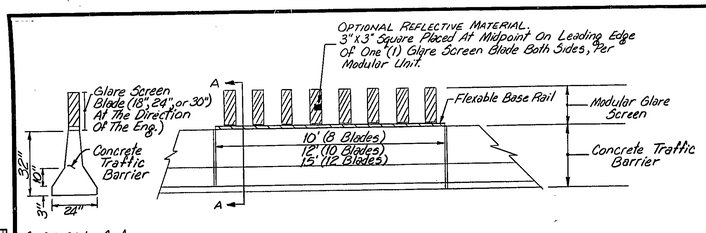
SPECIAL SHEET 4 OF 16

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 71
DIST. NO. 6	PROJECT NO. IR-IBG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

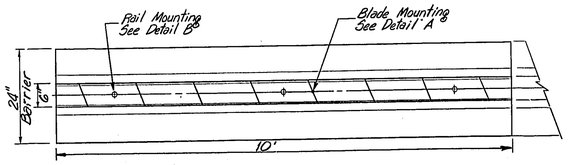
FINAL PLANS

FINAL SURVEY	SURVEYED	DATE
	NOTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



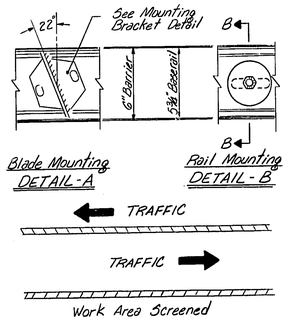
SECTION A-A

ELEVATION

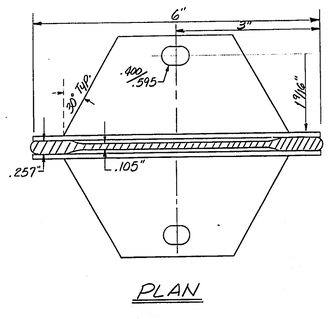


PLAN

TYPICAL MODULAR GLARE SCREEN INSTALLATION

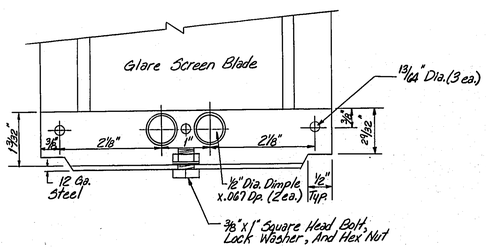


TYPICAL PLACEMENT DETAIL

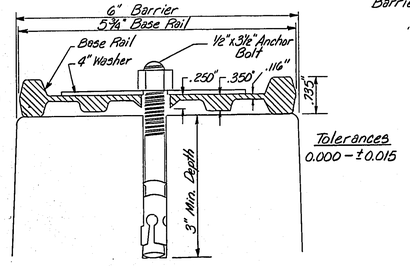


PLAN

NOTE: Use Optional Flush Mount Anchoring System When Using Temporary Barrier Wall.



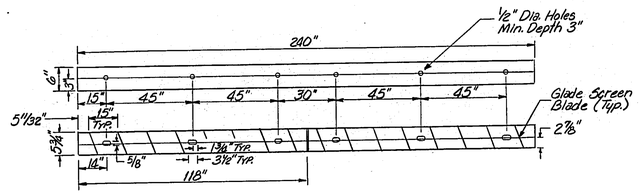
ELEVATION



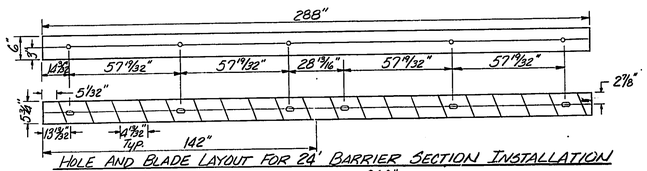
SECTION B-B

Tolerances
0.000 - ±0.015

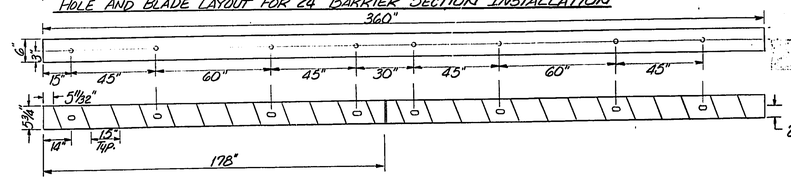
MOUNTING BRACKET DETAIL



HOLE AND BLADE LAYOUT FOR 20' BARRIER SECTION INSTALLATION



HOLE AND BLADE LAYOUT FOR 24' BARRIER SECTION INSTALLATION



HOLE AND BLADE LAYOUT FOR 30' BARRIER SECTION INSTALLATION

(A) The glareblade and flexible base rail are manufactured from a glass fiber and marble reinforced thermosetting composite and shall conform to the following requirements:

1. GLAREBLADE

wt./lin. ft.	315 gms.
min. specific gravity	1.70
min. rail tensile strength - 0°	40,000 psi
min. webb tensile strength - 90°	5,000 psi

glareblades may be either white or green, as directed by the engineer.

2. FLEXIBLE BASE RAIL

wt./lin. ft.	536 gms
min. specific gravity	1.70
min. webb tensile strength - 0°	25,000 psi
min. rib tensile strength - 0°	40,000 psi

(B) The standard anchor system for the module consist of three (3) or four (4) 3½" x ½" Trubolt masonry bolts with hex nuts and 4" washers, or equivalent.

As an alternate, Molly Drop-In Anchors, Catalog No. MDI-12, with 4" washers may be used.

The modular unit is placed over the anchor bolts, and nuts shall be tightened to 25 to 30 ft./lbs. Torque.

(C) All thermosetting composites shall retain mechanical properties over a temperature of -40 degrees F. and +180 degrees F., and show min. degradation after 3,000 hrs. in a weatherometer.

It shall be the Owner's responsibility to insure that the concrete upon which the Modular Glare Screens are to be mounted provides a min. of 3,000 psi compressive strength, and that large hard aggregate is not present in such quantities as to make it difficult or impossible to drill satisfactory holes for the setting of the anchor bolts.

(D) The cumulative nominal length of the Modular Glare Screen units shall equal the length of the individual sections of temporary concrete traffic barrier on which they are installed so that the joint between barrier sections will not be spanned by any one unit.

(E) Flexible Base Rails may be ordered with 22° cross-cuts in both directions to permit bi-directional mounting of glareblades as shown in the Typical Placement Detail.

(F) As an alternate to the Modular Glare Screen, individually mounted glareblades, either 6" or 9" wide, may be installed with anchor bolts on the concrete traffic barrier. Contact the manufacturer regarding materials specifications, spacing and angle of installation.

MODULAR GLARE SCREEN

FINAL PLANS

Special Sheet 5 of 16

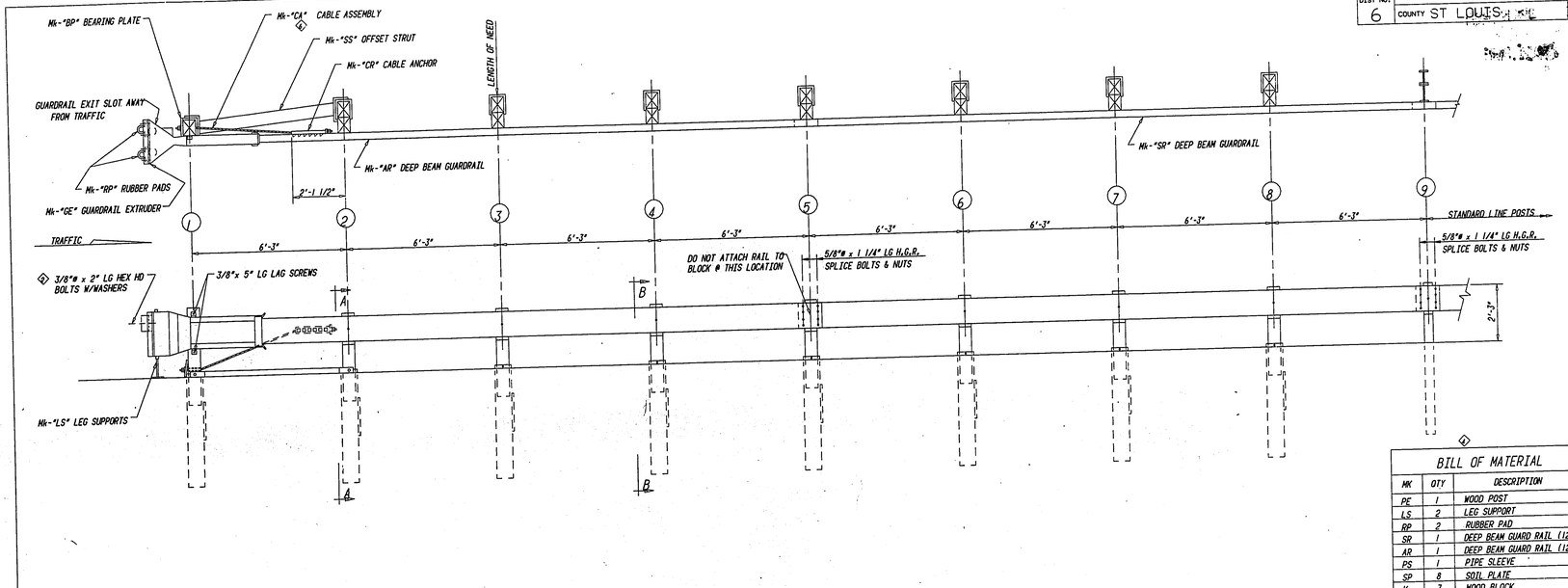
ORIGINAL SURVEY	SURVEYED	DATE
	NOTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

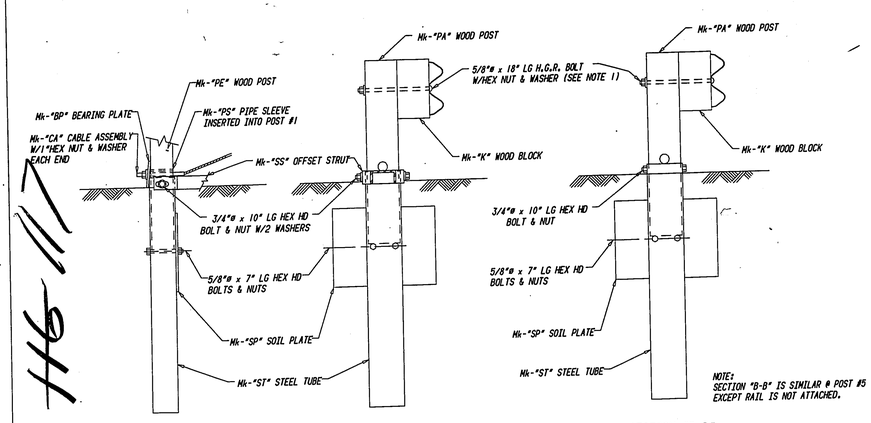
QUALITY REPRO

1544

24 TO 1

STATE	JOB NO. J6I0G47I 270	SHEET NO.
MO		72
DIST NO.	PROJECT NO. IR-IRG-270-5(254)	ROUTE
6	COUNTY ST LOUIS	I-270





PARTIAL VIEW @ POST #1

SECTION "A-A" (@ POST #2)

SECTION "B-B" (TYP @ POSTS #3, 4, 5, 7 & 8)

◇ BILL OF MATERIAL

MK	QTY	DESCRIPTION
PE	1	WOOD POST
LS	2	LEG SUPPORT
RP	2	RUBBER PAD
SR	1	DEEP BEAM GUARD RAIL (12GA)
AR	1	DEEP BEAM GUARD RAIL (12GA)
PS	1	PIPE SLEEVE
SP	8	SOIL PLATE
K	7	WOOD BLOCK
PA	7	WOOD POST
ST	8	STEEL TUBE
BP	1	BEARING PLATE
CR	1	CABLE ANCHOR
◇ CA	1	CABLE ASSEMBLY
◇ SS	1	OFFSET STRUT (LEFT OR RIGHT)
GE	1	GUARDRAIL EXTRUDER
	◇	HARDWARE
	8	3/4"ø x 10" HEX HD BOLT
	8	3/4" HEX NUT
	4	3/4" WASHER
	7	5/8"ø x 18" H.G.R. POST BOLT
	16	5/8"ø x 1 1/4" H.G.R. SPLICE BOLT
	16	5/8"ø x 7" HEX HD BOLT
	16	5/8" H.G.R. NUT
	23	5/8" HEX NUT
	7	5/8" WASHER
	2	3/8"ø x 5" LAG SCREW
	4	3/8"ø x 2" HEX HD BOLT
	4	3/8" WASHER
	2	1" HEX NUT
	2	1" WASHER

NOTES:
1.) THE 5/8" FLAT WASHER IS USED UNDER THE NUT, BEHIND THE POST ONLY. NO WASHER IS USED AT THE RAIL.
◇ 2.) THE BREAKAWAY POSTS @ LOCATIONS #5, 6, 7 & 8 MAY BE AS SHOWN OR MAY UTILIZE POSTS AS SHOWN IN OPTION "B" WITHOUT FOUNDATION TUBES. (SEE SYRO DRAWING NO. SS-234.) POSTS @ LOCATIONS #1, 2, 3 & 4 MUST USE FOUNDATION TUBES.
3.) THE ET-2000 WAS TESTED ON FLAT & LEVEL TERRAIN. IT IS NOT RECOMMENDED ON SLOPES.
4.) MANUFACTURER SUGGESTS CUSTOMER TO PROVIDE REFLECTORIZATION OF TERMINAL.

SPECIAL SHEET 6 OF 16

NO.	REVISIONS	DATE	BY
◇	CHANGED Mk-CB TO Mk-CA & REDRAWN	9-17-90	B.I.
◇	REVISED TITLE BLOCK & NOTE 2	9-17-90	B.I.
◇	REMOVED OPTION "B" SECTION & NOTE	9-17-90	B.I.
◇	ADDED HARDWARE TO BILL OF MATERIAL	9-17-90	B.I.
◇	REVISED BOLT LGTH. WAS 3/8"ø x 2 1/4" LG	4-2-90	T.L.C.
◇	ADDED LEFT OR RIGHT NOTE FOR Mk-SS IN BILL	2-1-90	T.L.C.

ET-2000
PLAN, ELEVATION & SECTIONS
◇ OPTION "A"

SYRO STEEL COMPANY
GIRARD, OHIO
CENTERVILLE, UTAH

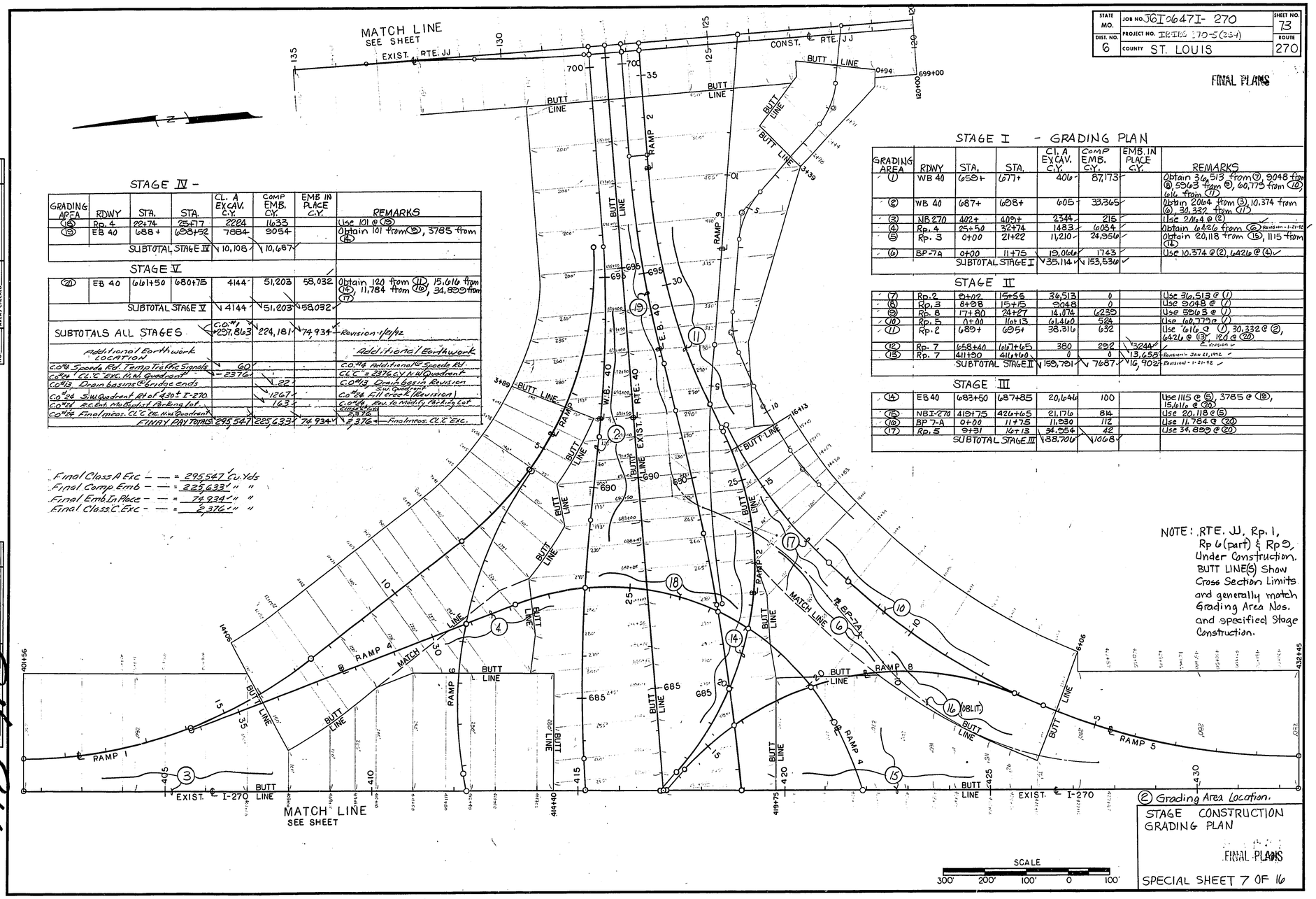
DRAWN	T.L.C.
CHECKED	E.R.
APPROVED	
DATE	4-7-89
SCALE	NONE
DRAWING NO.	SS 215

1544

24 TO 1

STATE MO.	JOB NO. JGI0647I- 270	SHEET NO. 73
DIST. NO. 6	PROJECT NO. IRIM 270-5(234)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS



STAGE I - GRADING PLAN

GRADING AREA	RDWY	STA.	STA.	CL. A EXCAV. C.Y.	COMP EMB. C.Y.	EMB. IN PLACE C.Y.	REMARKS
①	WB 40	658+	677+	406	87,173		Obtain 36,513 from ⑦, 9048 from ⑧, 5563 from ⑨, 60,775 from ⑩, 1616 from ⑪
②	WB 40	687+	698+	605	33,365		Obtain 2004 from ③, 10,374 from ⑥, 30,332 from ⑪
③	NB 270	402+	409+	2344	215		Use 2004 @ ②
④	Rp. 4	25+50	32+74	1483	6054		Obtain 6426 from ⑥ Revision-1-21-92
⑤	Rp. 3	0+00	21+22	11,210	24,956		Obtain 20,118 from ⑮, 1115 from ⑭
⑥	BP-7A	0+00	11+75	19,066	1743		Use 10,374 @ ②, 6426 @ ④
			SUBTOTAL STAGE I	35,114	153,536		

STAGE II

⑦	Rp. 2	0+02	15+55	36,513	0		Use 36,513 @ ①
⑧	Rp. 3	8+28	15+15	9048	0		Use 9048 @ ①
⑨	Rp. 8	17+80	24+27	14,074	6235		Use 5563 @ ①
⑩	Rp. 5	0+00	16+13	61,460	524		Use 60,775 @ ①
⑪	Rp. 2	689+	695+	38,316	632		Use 1616 @ ①, 30,332 @ ②, 6426 @ ④, 120 @ ⑳
⑫	Rp. 7	658+40	661+65	380	292	3244	Revision -
⑬	Rp. 7	411+90	414+60	0	0	13,658	Revision - Jan 21, 1992
			SUBTOTAL STAGE II	159,791	7687	16,902	Revision - 1-21-92

STAGE III

⑭	EB 40	683+50	687+85	20,1646	100		Use 1115 @ ⑤, 3785 @ ⑲, 15,611a @ ⑳
⑮	NBI-270	419+75	426+65	21,176	814		Use 20,118 @ ⑤
⑯	BP 7-A	0+00	11+75	11,930	112		Use 11,784 @ ⑳
⑰	Rp. 5	9+31	16+13	34,554	42		Use 34,859 @ ⑳
			SUBTOTAL STAGE III	88,700	1068		

STAGE IV -

GRADING AREA	RDWY	STA.	STA.	CL. A EXCAV. C.Y.	COMP EMB. C.Y.	EMB IN PLACE C.Y.	REMARKS
⑮	Rp. 4	32+74	25+57	2224	1633		Use 101 @ ⑱
⑱	EB 40	688+	688+52	7884	9054		Obtain 101 from ⑮, 3785 from ⑲
			SUBTOTAL STAGE IV	10,108	10,687		

STAGE V

⑳	EB 40	661+50	680+75	4144	51,203	58,032	Obtain 120 from ⑪, 15,616 from ⑭, 11,784 from ⑯, 34,859 from ⑰
			SUBTOTAL STAGE V	4144	51,203	58,032	

SUBTOTALS ALL STAGES	C.O.#1 257,863	224,181	74,934	Revision-1/21/92
Additional Earthwork LOCATION				Additional Earthwork
C.O.#4 Speeds Rd Temp Traffic Signals	60			C.O.#4 Additional Speeds Rd.
C.O.#24 CL C Exc. N.W. Quadrant	2376			CL C = 2376 C.Y. N.W. Quadrant
C.O.#13 Drain basins & bridge ends		22		C.O.#13 Drain basin Revision
C.O.#24 SW Quadrant Rd of 230th I-270		1267		C.O.#24 Fill Creek (Revision)
C.O.#24 ACBM Mix Bypass at Parking lot		163		C.O.#24 Rev. to Modify Parking Lot
C.O.#24 Final Meas. CL C Exc. N.W. Quadrant			2376	Revision - Jan 21, 1992
FINAL PAY TOTALS	295,547	225,633	74,934	2,376 Final Meas. CL C Exc.

Final Class A Exc — — = 295547 Cu. Yds
Final Comp. Emb — — = 225633 " "
Final Emb In Place — — = 74934 " "
Final Class C Exc — — = 2376 " "

NOTE: RTE. JJ, Rp. 1, Rp 6 (part) & Rp 9, Under Construction. BUTT LINE(S) Show Cross Section Limits and generally match Grading Area Nos. and specified Stage Construction.

② Grading Area Location.

STAGE CONSTRUCTION GRADING PLAN

FINAL PLANS

SPECIAL SHEET 7 OF 16

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

1129

1544

24 TO 1

Sht. 1 of 2

J6I0647I 73-A
IR-IRG-270-5(259)
6 St. Louis I-270
Sheet 1 of 2
FINAL PLANS

CLASS "C" EXCAVATION
Detention Basin

FINAL SURVEY NOTE BOOK NO. 1064
ORIGINAL SURVEY NOTE BOOK NO. 1064
DATE 6/7/93
BY GARRISON, KRAEGG

2% LT. ℄ → AP 3

(D) 50 (530+438 / 2) = 24,200 CF / 27
C ~ 896 C.Y.

(C) 50 (208+530 / 2) = 18,450 CF / 27
C ~ 683 C.Y.

(B) 50 (19+228 / 2) = 11425 CF / 27
C ~ 238 C.Y.

(A) 50 (0+449 / 2) = 12,225 CF / 27
C ~ 456 C.Y.

5' (VERTICAL)
10' (HORIZONTAL)
SCALE

70	100	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0

620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535 530

13+00
C = 438'

12+50
C = 530'

12+00
C = 208'

11+50
C = 49'

11+00
C = 0'

FINAL PLANS
DETENTION POND
CL C

1544 24 TO 1

SHT. 2 OF 2

STATE	FED. NO.	SHEET NO.
MO	J6I0647I	73B
DIST. NO.	PROJECT NO.	TOTAL SHEETS
6	IR-IRG-270-5(459)	I-270
	COUNTY: ST. LOUIS	

Sheet 2 of 2

FINAL PLANS

CLASS "C" EXCAVATION

Detention Basin

SUMMARY:

(A)	45	C.Y.
(B)	238	C.Y.
(C)	685	C.Y.
(D)	896	C.Y.
(E)	733	C.Y.
(F)	137	C.Y.
TOTAL	2376	C.Y.

Final Pass: 2376 C.Y. @ C-0"

24' LT. ℄ RP-3

620
615
610 13+70 C-0
605
600
595
590
585
580
575
570
565
560
555
550
545
540
535
530
525
520
515
510
505 13+50 C-54
500

(B) $20\left(\frac{84+0}{2}\right) = 840$ C.F. 13+70 C-3' C.Y.

(A)

(E) $50\left(\frac{733+54}{2}\right) = 13,050$ C.F. C-733' C.Y.

5' (Vertical)

10' (Horizontal)

SCALE

50 40 30 20 10 0

DETENTION POND
℄ C

FINAL PLANS

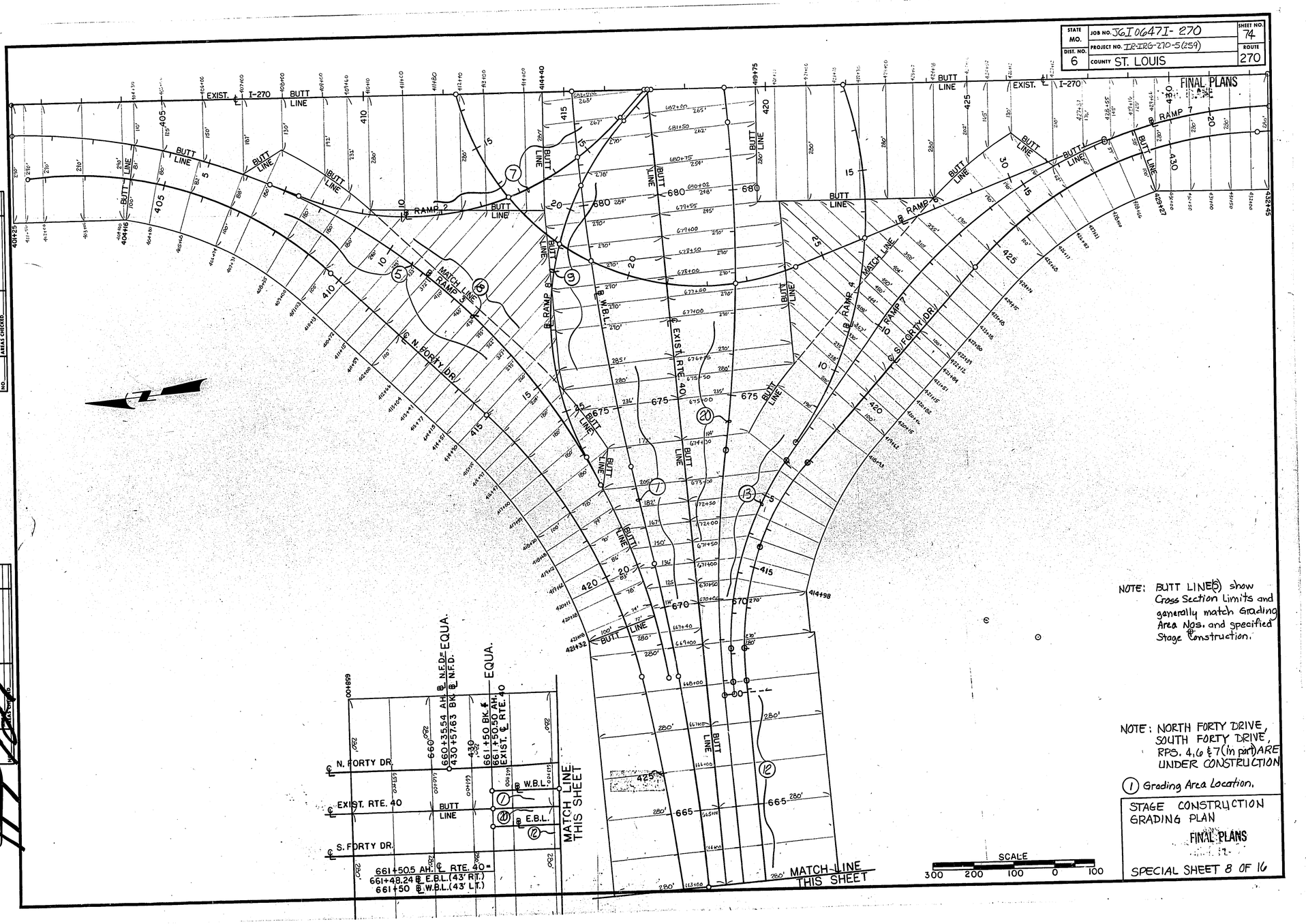
FINAL SURVEY NOTE BOOK NO. 1084 — DATE 7/96 — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — MARIUS / SMEED

ORIGINAL SURVEY — DATE 4/17/97 — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — MARIUS / SMEED — BY MARIUS / SMEED / MACKIE / CHRISTOFF

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 74
DIST. NO. 6	PROJECT NO. I2-IRG-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS



NOTE: BUTT LINE(S) show Cross Section Limits and generally match Grading Area Nos. and specified Stage Construction.

NOTE: NORTH FORTY DRIVE, SOUTH FORTY DRIVE, RPS. 4, 6 & 7 (in part) ARE UNDER CONSTRUCTION

(1) Grading Area Location.

STAGE CONSTRUCTION GRADING PLAN

FINAL PLANS

SPECIAL SHEET 8 OF 16

FINAL SURVEY — SURVEYED, PLOTTED, ERRATE, AREAS CHECKED — BY — DATE — NO.

ORIGINAL SURVEY — PLOTTED, ERRATE, AREAS CHECKED — BY — DATE — NO.

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I 270	SHEET NO. 75
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

NOTE: Certain drainage facilities, erosion control items, lighting items, permanent signing and other incidental items require placement on specific construction stages. The contractor shall be responsible for proper coordination of his construction operations.

Work this sheet with the Grading Plan (2 sheets). Excavated material shown in STAGES II and III is required in STAGES I, IV and V.

TRAFFIC CONTROL PLAN - STAGE CONSTRUCTION

FINAL PLANS

STAGE I

A. Place applicable construction signing.
B. Shift EB and WB traffic to temporary widening, Sta. 658+ to Sta. 672+. EB and WB traffic in place across Rp. 2 and EB 40 bridges over Ballas Rd., from Proj. No. FI-IR-270-5(253).
C. Const. WB 40, Sta. 661+50 to A-4652 and A-4652 to Sta. 658+68± (Grading Areas 1 and 2).
D. Const. Rp. 4, Sta. 25+ to Sta 32+ (Grading Areas 3 and 4).
E. Const. Rp. 3, Sta. 0+ to 21+22, incl. A-4677 and A-4590R and left pvd. shldr. on N. Forty Dr. (Grading Area 5).
F. Const. Bypass 7-A, Sta. 0+00 to Sta. 11+75. (Grading Area 6).
G. Const. Aux. lane along SB I-270, Sta. 375+25 to north of Conway Rd. overpass.

STAGE II

A. Place applicable construction signing.
B. Shift 2-lane WB 40 traffic to completed Step C, STAGE I, incl new WB lanes across Ballas Rd.
1. Shift EB 40 to compcted EB lanes across Ballas Rd. from Rp. 2 bridge over Ballas Rd.
C. Shift NB I-270 to EB 40 on completed Bypass 7-A, Step F, STAGE I. DETOUR EB 40 traffic to Ballas exit eastward to Spoede Rd. and back west.
D. Const. Rp. 2, Sta. 0+02 to Sta. 15+55 (Grading Area 7).
E. Const. Rp. 3, Sta. 8+88 to Sta. 15+15, Left side, (Grading Area 8).
F. Const. Rp. 6, Sta. 17+80 to Sta. 24+27 (Grading Area 9). Incls. Temp. Conn. from WB 40.
G. Const. Rp. 5, Sta. 0+00 to Sta. 16+13, incl. A-4656, A-4788, and Reloc. Comm. Entr. & MBMC tr. (Grading Ar. 10).
H. Const. Rp. 2, Sta. 24+55 to Sta. 33+12 (Rt. of EB40), incl. A-4655. (Grading Area 11).
I. Const. Rp. 7, incl. aux. lane, Sta. 658+40 (EB40) to Sta. 416+60, incl. A-4591R, A-4678 and remaining shldr. pvt. on S. Forty Dr. (left side). (Grading Areas 12 and 13).
J. Const. Temp. Conn. from EB 40 to NB I-270 @ Rp. 4 near Sta. 25+80.

STAGE III

A. Place applicable construction signing. (DETOUR from Step C, STAGE II, remains in use).
B. Shift NB I-270 traffic to EB 40 and Ballas Rd exit on completed Step G and H, STAGE II. (Rps. 5 and 2)
C. Const. Rp. 2, Sta. 18+44 to Sta. 24+55, Rt. of EB 40. (Grading Area 14), incl. Temp. Conn. from EB 40 to Rp. 2.
D. Const. Rp. 8, Sta. 8+77 to Sta. 15+00, Lt. of NB I-270. (Grading Area 15).
E. Obliterate Bypass 7-A, Sta. 0+00 to Sta. 11+75, incls. site grading and compl. of detention basin. (Grading Area 16).
F. Site Grading and compl. of detention basin left of Rp. 5, Sta. 0+31 to Sta. 15+00. (Grading Area 17).
G.

STAGE IV

A. Place applicable construction signing.
B. Shift 2-lane EB 40 traffic to south half compl. WB 40, Sta. 627+ to east of Ballas Rd. (DETOUR from Step C, STAGE II, remains in use).
1. Shift EB 40 to SB I-270 traffic to compl. Step I, STAGE II, (Rps. 7 and 6).
2. Shift EB 40 to NB I-270 traffic to compl. Step J, STAGE II (Exist. EB 40 and Rp. 4).
3. Shift SB I-270 to EB 40 and Ballas to compl. Step H, STAGE II and Step C, STAGE III. (Exist. BP. 6 and Rp. 2)
C. Const. Rp. 4, Sta. 21+21 to Sta. 25+77, incl. A-4653 (part). (Grading Area 18).
D. Const. EB 40, Sta. 689+93 to Sta. 658+69, incl. A-4652 (part), (Grading Area 19).
E. Shift NB I-270 to WB 40 traffic onto compl. Step E, STAGE I and Step F, STAGE II (Exist. BP. 3; Rps. 8 and 3).
F. Const. Right 1/2 S.F.Dr., Sta. 658+40 to Sta. 661+40. (Shift 2-way S.F.Dr. traffic to compl. Left 1/2 of S.F.Dr.).

STAGE V

A. Place applicable construction signing.
B. Shift EB 40 to both NB and SB I-270 on compl. Step I, STAGE II (Rps. 7-4-1 and 7-6 respectively).
1. EB 40 traffic remains on Step B, STAGE IV.
C. Const. EB 40, Sta. 661+50 to end of A-4652, incl. site grading. (Grading Area 20).

STAGE VI

A. Remove remaining traffic control signing as required.
B. Shift EB 40 traffic to compl. Step C, STAGE I and remainder of compl. EB lanes, incl. Rp. 5 exit to Ballas.
1. Remove DETOUR from Step C, STAGE II, Rem. remainder of T.T.B.
C. All traffic is now on compl. roadways except NB I-270 to WB 40 and SB to EB 40 (part Rps. 8 and 2 respectively).
D. Compl. incidental items, lighting and signing

TRAFFIC CONTROL PLAN
STAGING SEQUENCE

FINAL PLANS

SPECIAL SHEET 9 OF 16

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SUBMITTED — PLOTTED — TEMPLATE — AREAS CHECKED

ORIGINAL SURVEY — SUBMITTED — PLOTTED — TEMPLATE — AREAS CHECKED — DATE — BY

1544 24 TO 1

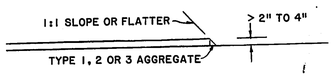
STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 76
DIST. NO. 6	PROJECT NO. IR-IEG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

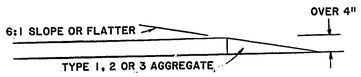
PAVEMENT EDGE DROP-OFF TREATMENT

FOR EDGE DROP-OFF OF 2" OR LESS, NO EDGE TREATMENT IS REQUIRED, UNLESS OTHERWISE SPECIFIED ON THE TRAFFIC CONTROL PLAN.

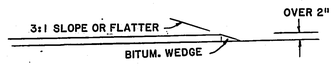
FOR EDGE DROP-OFF (DURING NON-WORKING HOURS) ADJACENT TO THRU LANES, OF GREATER THAN 2" AND NOT OVER 4", THE DROP OFF SLOPE SHALL BE FLATTENED TO A 1:1 SLOPE OR FLATTER, CONSISTING OF TYPE 1, 2 OR 3 AGGREGATE (AS APPROVED BY THE R.E.). LOW SHOULDER SIGNS (W08-9) SHALL BE PLACED AT 1000' INTERVALS THROUGHOUT THE WORK AREA.



FOR EDGE DROP OFF (DURING NON WORKING HOURS) ADJACENT TO THRU LANES OF GREATER THAN 4", THE DROP OFF SLOPE SHALL BE FLATTENED TO A 3:1 SLOPE, OR FLATTER, CONSISTING OF TYPE 1, 2 OR 3 AGGREGATE (AS APPROVED BY THE R.E.). OPEN TRENCH SIGNS (W020-9) SHALL BE PLACED AT 1000' INTERVALS THROUGHOUT THE WORK AREA.



UNEVEN PAVEMENT EDGES OVER WHICH TRAFFIC IS EXPECTED TO CROSS FROM LANE TO LANE EXCEEDING 2" IN HEIGTH, SHALL BE TREATED WITH A BITUMINOUS WEDGE AT A SLOPE OF 3:1 OR FLATTER. UNEVEN PAVEMENT SIGNS (W08-9a), IF APPLICABLE, SHALL BE NOTED ON THE TRAFFIC CONTROL PLAN.



CHANNELIZING DEVICES

CONES MAY BE USED FOR TEMPORARY LANE CLOSURES DURING DAY LIGHT HOURS ONLY. NO TOTAL QUANTITY IS SHOWN AND NO DIRECT PAYMENT IS MADE FOR CONES.

CHANNELIZERS (DRUMS) SHALL BE USED TO DIRECT TRAFFIC THROUGH A WORK AREA AND AS A WARNING DEVICE TO MARK SPECIFIC HAZARDS DURING WORKING AND NON-WORKING HOURS. CHANNELIZERS SHALL BE PLACED OFF THE PAVEMENT UNLESS LANE CLOSURE IS IN EFFECT.

TEMPORARY TRAFFIC BARRIER (TTB) IS USED TO PREVENT VEHICLES FROM ENTERING THE WORK AREA, SEPARATE 2 WAY TRAFFIC AND AT SPECIFIC HAZARDS FOR LONG TERM PERIODS. TEMPORARY TRAFFIC BARRIER TO BE USED IN LIEU OF EDGE DROP-OFF TREATMENT AS NOTED ON THE TRAFFIC CONTROL PLAN. EXPOSED ENDS OF TEMPORARY TRAFFIC BARRIER SHALL HAVE AN IMPACT ATTENUATOR, HEIGTH TRANS. OR BRIDGE ANCHOR SECTION, AS APPROPIATE, ON THE APPROACH END. (SEE SPECIAL SHEET)

WORK SHALL BE LIMITED TO ONE SIDE OF THRU LANES AT A TIME (MEDIAN LANE AND OUTSIDE LANE TO BE CONSTRUCTED SEPARATELY).

NOTE:

ITEMS NOTED ON THE TRAFFIC CONTROL PLAN AND/OR SPECIAL PROVISIONS SHALL HAVE PRECEDENCE OVER THIS SHEET.

THE CONTRACTOR MAY, AT HIS OWN EXPENSE, ADD ANY STANDARD SIGN OR TRAFFIC CONTROL DEVICE HE CONSIDERS NECESSARY TO PROTECT THE WORK AREA. THE R.E. MAY ALSO ADD SIGNS OR TRAFFIC CONTROL DEVICES HE CONSIDERS NECESSARY TO PROTECT THE PUBLIC AND WORK AREA, IN WHICH CASE, THE CONTRACTOR WILL BE PAID FOR SUCH ADDITIONAL DEVICES UNDER THE UNIT CONTRACT PRICE.

CONSTRUCTION ZONE SIGNING

EXISTING GUIDE, WARNING AND REGULATORY SIGNS WITHIN THE PROJECT LIMITS SHALL NOT CONFLICT WITH THE CONSTRUCTION SIGNING (SUCH AS SPEED LIMIT, BRIDGE CLEAR. ETC.) AND SHALL BE COVERED, REMOVED OR RELOCATED. CONSTRUCTION SIGNS SHALL NOT OBSTRUCT EXISTING SIGNS REMAINING IN PLACE.

THE SPEED LIMIT DURING ACTIVE CONSTRUCTION SHALL BE 45 M.P.H. UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLAN. SPEED LIMIT DURING NON-CONSTRUCTION HOURS SHALL REVERT BACK TO 55 M.P.H. UNLESS OTHERWISE NOTED.

CONSTRUCTION SIGNS WHICH ARE TO REMAIN IN PLACE FOR AN EXTENDED PERIOD OF TIME, DAY AND NIGHT, SHALL BE MOUNTED ON A PERMANENT TYPE WOOD POST(S) AS NOTED ON THE TRAFFIC CONTROL PLAN.

WARNING SIGNS WITH THE LEGEND "AHEAD" MAY BE USED IN LIEU OF THE DISTANCE PLAQUE WHEN THE CONSTRUCTION SIGN IS TO BE RELOCATED DURING THE WORK DAY.

LOW CLEARANCE SIGNS ARE NOT REQUIRED IF A 14'9" CLEARANCE CAN BE MAINTAINED DURING CONSTRUCTION. THE VERTICAL CLEARANCE SHOWN ON LOW CLEARANCE SIGNS IS THE ACTUAL CLEARANCE MINUS 2".

LIGHTING DEVICES

FLASHING ELECTRIC LIGHTS (FEL) SHALL BE MOUNTED ON MOVABLE BARRICADES WHERE A DIRECTIONAL MOVEMENT IS REQUIRED. TYPE B WARNING LIGHTS MAY BE USED IF AN ELECTRICAL POWER SOURCE IS NOT AVAILABLE.

TYPE A WARNING LIGHTS SHALL BE USED TO WARN TRAFFIC OF AN ISOLATED HAZARD AT NIGHT.

TYPE B WARNING LIGHTS SHALL BE USED ON ADVANCED WARNING SIGNS, DAY AND NIGHT, WHERE CONSTRUCTION HAZARDS SUCH AS LANE SHIFTS, TAPERS, BY-PASS, CURVE, DETOUR OR LOW CLEARANCE IS A FACTOR. SEE TRAFFIC CONTROL PLAN FOR LOCATIONS.

TYPE C WARNING LIGHTS SHALL BE USED ON CHANNELIZING DEVICES TO DELINEATE TRAFFIC IN THE WORK AREA AT NIGHT.

FLASHING ARROW PANELS (FAP) SHALL BE USED TO MOVE TRAFFIC OUT OF A TAPERED LANE CLOSURE DURING DAY AND NIGHT.

PAVEMENT MARKING AND REMOVAL

REMOVABLE PAVEMENT MARKING (PAINT) SHALL BE USED AS PAVEMENT STRIPING TO DELINEATE TRAFFIC LANES ON BYPASSES, TEMPORARY CONNECTIONS, EXISTING PAVEMENTS, AND NEW PAVEMENTS USED FOR HANDLING TRAFFIC FOR EXTENDED PERIODS OF TIME, SUCH AS: OVER (4) MONTHS DURING THE CONSTRUCTION SEASON, OVER WINTER MONTHS, OR WHEN LEFT IN PLACE AT THE END OF A PROJECT FOR SUBSEQUENT USE ON SUCCEDING PROJECTS. LEFT AND RIGHT EDGE LINES SHALL BE PLACED BY THE CONTRACTOR ON ABOVE NOTED ROADWAYS. FINAL EDGE LINES SHALL BE PLACED BY M.H.T.D. WITHIN 14 CALENDER DAYS AFTER FINAL SURFACE COURSE, INCLUDING SHOULDERS, HAS BEEN PLACED.

PREFORMED PAVEMENT MARKING TAPE, THERMOPLASTIC PAVEMENT MARKING, REMOVABLE PAVEMENT MARKING (TAPE OR PAINT) AND SHORT TERM PAVEMENT MARKING SHALL BE USED UNDER THE CONDITIONS AND AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE R.E. THE WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 620 (REVISED) OF THE GENERAL SPECIAL PROVISIONS.

CONFLICTING STRIPING SHALL BE REMOVED PRIOR TO GUIDING TRAFFIC THROUGH WORK ZONES. ANY OF THE ABOVE MARKINGS WHICH ARE OBLITERATED DURING A DAYS WORK SHALL BE REMARKED NO LATER THAN THE END OF THE SAME DAY.

PAVEMENT MARKING DIMENSIONS:
- CENTER LINE AND EDGE LINES-CONTINUOUS, 4" WIDE (WHITE OR YELLOW)
- LANE LINE-INTERMITTENT, 10' LONG, 30' SKIP, 4" WIDE (WHITE)
- DOUBLE CENTER LINES-CONTINUOUS, 4" WIDE, 8" APART (YELLOW)
- GORE LINE-CONTINUOUS, 8" WIDE (WHITE)
- STOP LINE-CONTINUOUS, 12" WIDE (WHITE)
- TRAFFIC BARRIER STRIPE-CONTINUOUS, 13" WIDE (WHITE OR YELLOW)

PAVEMENT MARKING USES:

Item 620-50.	TYPE 1 PREFORMED MARKING TAPE, FINAL MARKINGS, URBAN AREAS (55 MPH)
Item 620-51.	TYPE 2 PREFORMED MARKING TAPE, FINAL MARKINGS, RURAL AREAS (55 MPH)
Item 620-53.	PREFORMED REMOVABLE MARKING (TAPE OR PAINT-CONTRACTOR OPTION)
Item 620-54.	PREFORMED SHORT TERM MARKING TAPE (USED WHEN EXIST. MARKINGS ARE COVERED AT END OF DAYS OPERATIONS-4" WIDE, 36' GAP, 4' STRIP. NO EDGE LINES REQUIRED.
Item 620-60.	REMOVABLE PAVEMENT MARKING (PAINT) WHEN SPECIFIED FOR USE ON BYPASSES, BINDER COURSE OR NEW PAVEMENTS HANDLING TRAFFIC, INCL. EDGE LINES.

SYMBOLS USED ON TRAFFIC CONTROL PLANS

CLOSED OR FILLED IN SYMBOLS REPRESENT NEW OR RELOCATED ITEMS-
OPEN OR DASHED SYMBOLS REPRESENT EXISTING ITEMS

	EXISTING PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW BITUM. PAVEMENT OR RESURFACING
	PAVEMENT OBLITERATION
	TRAFFIC USEAGE
TCP	TRAFFIC CONTROL PLAN
GDRL.	GUARDRAIL
BAS	BRIDGE ANCHOR SECTION
TES	TERMINAL END SECTION
TTB	TEMPORARY TRAFFIC BARRIER
H.T.	HEIGTH TRANSITION
IMP ATTN	IMPACT ATTENUTOR
DRUMS	CHANNELIZERS (DRUMS)
	CONES (NO DIRECT PAYMENT)
	SIGN
PEDT	PAVEMENT EDGE DROP-OFF TREATMENT
FAP	FLASHING ARROW PANEL
FEL	FLASHING ELECTRIC LIGHT
W.L.	TYPE A, B OR C WARNING LIGHTS
R.I.	REMOVAL OF IMPROVEMENT (PAY ITEM)
REM.	REMOVAL OF TRAFFIC CONTROL DEVICE (NO DIRECT PAY)
R.I.P.	REMAIN IN PLACE (AFTER COMPLETION OF THIS PROJECT)

PAVEMENT MARKING

I.W.	INTERMITTENT WHITE
S.W.	SOLID WHITE
S.Y.	SOLID YELLOW
D.S.Y	DOUBLE SOLID YELLOW
S.W.B.	SOLID WHITE (13") ON TRAFFIC BARRIER
S.Y.B.	SOLID YELLOW (13") ON TRAFFIC BARRIER
-/P	DENOTES PAINT
-/T	DENOTES TAPE

TRAFFIC CONTROL PLAN
GENERAL CONDITIONS AND SYMBOLS
FINAL PLANS

SPECIAL SHEET 10 OF 16

DATE | BY | SURVYED | PLOTTED | NOTE BOOK | TEMPLATE | AREAS CHECKED | NO.

ORIGINAL SURVEY | FINAL SURVEY

120

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 77
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS

DESIGN SPEED MPH (1)	(L) MIN. TAPER LENGTH FOR LANE WIDTH 10'	11'	12'	MAXIMUM CHANNELIZER SPACING THROUGH TAPER	THROUGH WORK AREA
45	450	495	540	45	100
50	500	550	600	50	100
55	550	605	660	55	100

(1) POSTED SPEED PRIOR TO CONSTRUCTION.

MAXIMUM SPACING FOR CHANNELIZERS AT CURVES:

DEGREE OF CURVE	SPACING ON CURVE	SPACING IN ADVANCE OF AND BEYOND CURVE 1ST	2ND	3RD
TAN TO 1/2	100'	100'	100'	100'
1/2 TO 2	75'	85'	100'	100'
2 TO 4	60'	70'	80'	100'
4 TO 8	50'	60'	70'	80'

NOTES:

CHANNELIZERS SHALL BE PLACED OFF THE PAVEMENT ULESS LANE CLOSURE IS IN EFFECT.

CONSTRUCTION IS LIMITED TO ONE LANE OF A THRUWAY AT A TIME.

MAXIMUM SIGN SPACING FOR SPEEDS IN EXCESS OF 40 MPH SHALL BE 500' UNLESS OTHERWISE NOTED ON THE TRAFFIC CONTROL PLAN.

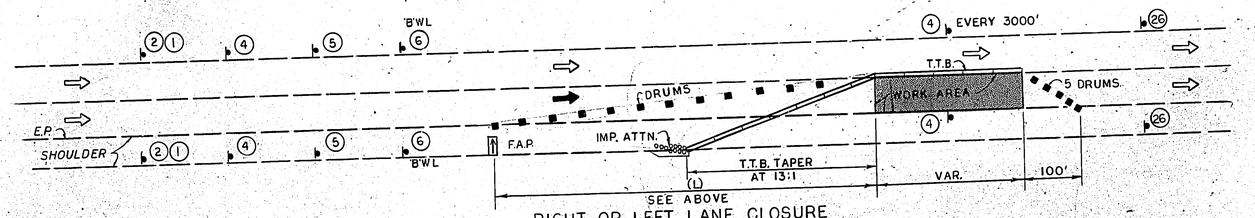
CONSTRUCTION SIGNS SHALL BE PLACED ON THE RIGHT AND LEFT SIDE OF DIVIDED HIGHWAYS.

SPEED LIMIT SHALL REVERT TO ORIGINAL SPEED LIMIT DURING NON WORKING HOURS AND APPLICABLE CONSTRUCTION SIGNS COVERED OR TURNED AWAY.

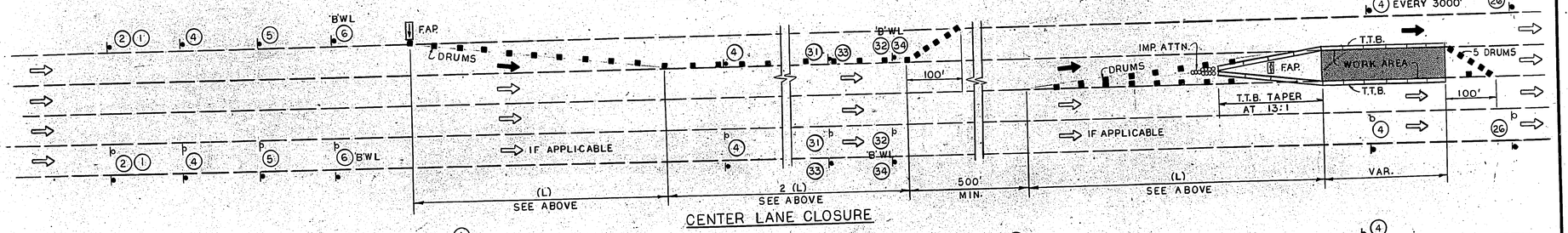
REFER TO SEC. 620 (REVISED) FOR PAVEMENT MARKING.

SEE SPECIAL SHEET "IMPACT ATTENUATOR AND TRAFFIC BARRIER".

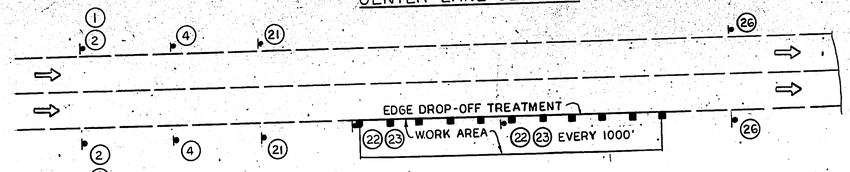
TYPICAL INSTALLATION



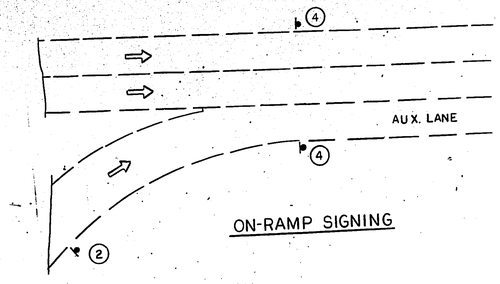
RIGHT OR LEFT LANE CLOSURE



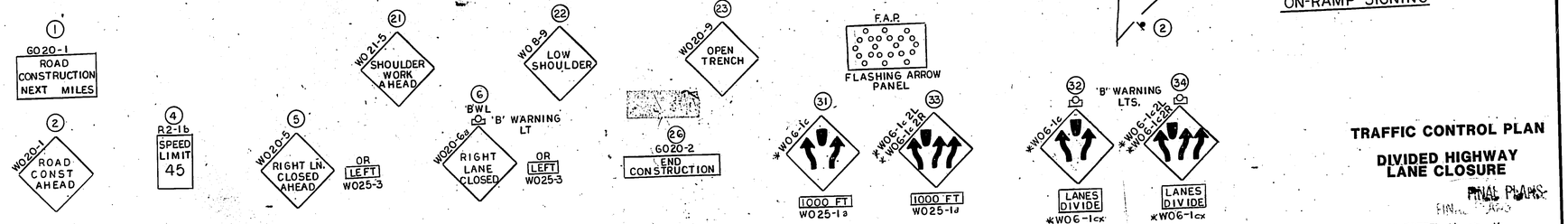
CENTER LANE CLOSURE



OPEN TRENCH/LOW SHOULDER
W/ EDGE DROP OFF TREATMENT



ON-RAMP SIGNING



USE (1) IF LENGTH OF PROJECT IS 2 MILES OR MORE.

*SEE T.C.P. SPECIAL SH. -SIGN DETAIL

TRAFFIC CONTROL PLAN

DIVIDED HIGHWAY LANE CLOSURE

FINAL PLANS

SPECIAL SHEET 11 OF 16

FINAL SURVEY — SURVEYED BY, PLOTTED BY, NOTE BOOK, NO., DATE, AREAS CHECKED

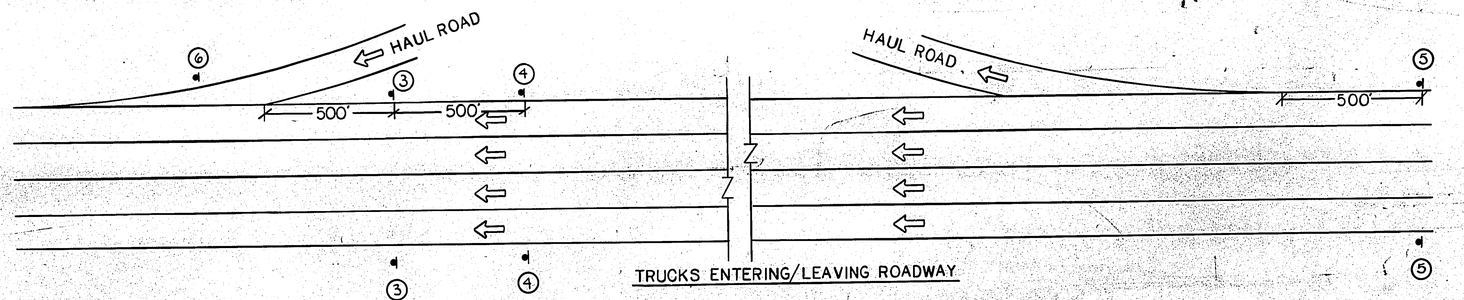
ORIGINAL SURVEY — SURVEYED BY, PLOTTED BY, NOTE BOOK, NO., DATE, AREAS CHECKED

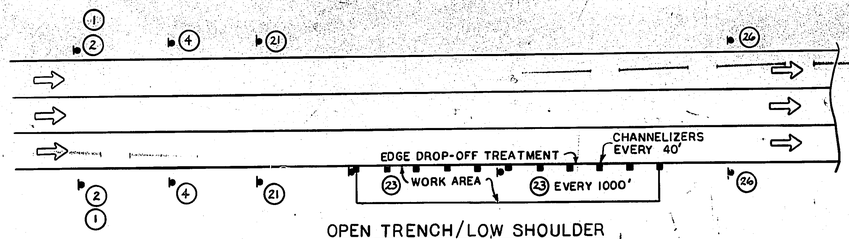
1544 24 TO 1

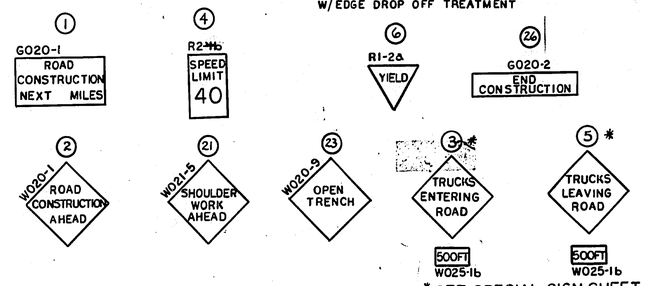
STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 78
DIST. NO. 6	PROJECT NO. IPIRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY — SURVEYED ____ PLOTTED ____ NOTE BOOK ____ TEMPLATE ____ AREAS CHECKED ____ NO. ____ BY ____ DATE ____







TRAFFIC CONTROL PLAN

SPECIAL SHEET 12 OF 16

FINAL PLANS

ORIGINAL SURVEY — STAKED ____ NOTE BOOK ____ TEMPLATE ____ AREAS CHECKED ____ NO. ____ BY ____ DATE ____

12-2-85

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 79
DIST NO. 6	PROJECT NO. IP-IPG 270-5(251)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

TEMPORARY IMPACT ATTENUATION DEVICES

TEMPORARY IMPACT ATTENUATION DEVICES (IMP. ATTN.) SHALL BE PLACED ON THE APPROACH ENDS OF TRAFFIC HAZARDS (I.E. RETAINING WALLS, TRAFFIC BARRIER, ETC.). THE PLACEMENT LOCATION AND RELOCATION OF IMPACT ATTENUATORS ARE NOTED ON THE TRAFFIC CONTROL PLAN.

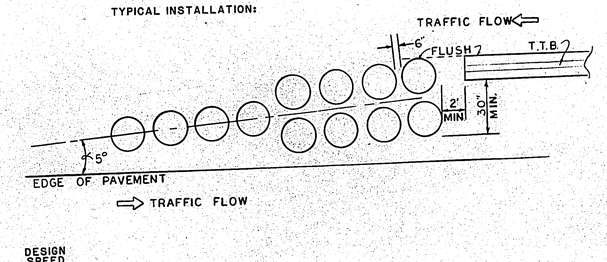
SITE PREPARATION: EXISTING CURBS AND MEDIANS (EXCEEDING 4" IN HEIGTH) SHALL BE REMOVED. SLOPES (LATERIAL AND LONGITUDINAL) IN EXCESS OF A 5% GRADE SHALL BE FLATTENED BY PLACING A BITUMINOUS PAD ON THE SITE.

MAINTENANCE OF THE IMPACT ATTENUATION DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING REPLACEMENT MODULES THAT HAVE BEEN DAMAGED BY VEHICLE IMPACT, EXCEPT IN THE CASE OF CONTRACTOR NEGLIGENCE. DAMAGED UNITS SHALL BE REPLACED BY THE CONTRACTOR AS SOON AS PRACTICAL AND HE SHALL INSURE THAT THE SITE IS CLEAR OF DEBRIS AT ALL TIMES.

WHEN THERE IS NO LONGER A NEED FOR IMPACT ATTENUATION DEVICES, THE MODULES SHALL BE REMOVED. SAND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. EMPTY MODULES, WHICH ARE SERVICABLE, SHALL REMAIN THE PROPERTY OF M.H.T.D. AND BE DELIVERED AND STOCKPILED AT A MAINTENANCE SITE, AS DIRECTED BY THE R.E.

WHENEVER POSSIBLE, THE ARRAY OF MODULES SHALL BE ROTATED 5 DEGREES FROM A LINE PARALLEL TO THE EDGE OF PAVEMENT, TOWARD THE APPROACHING TRAFFIC.

TYPICAL INSTALLATION:



DESIGN SPEED MPH	LENGTH	MODULE ARRAY EA./LBS
35	19'	1 at 700, 1 at 1400, 2 at 1400, 2 at 1400. 2 at 2100.
40	22.5'	1 at 700, 1 at 1400, 2 at 1400, 2 at 1400, 2 at 1400, 2 at 2100.
45-50	26'	1 at 400, 1 at 700, 1 at 1400, 2 at 1400, 2 at 1400, 2 at 1400, 2 at 1400, 2 at 2100.
55	29.5'	1 at 200, 1 at 400, 1 at 700, 1 at 1400, 2 at 1400, 2 at 1400, 2 at 1400, 2 at 1400, 2 at 2100.

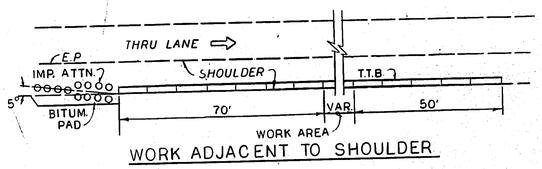
TEMPORARY TRAFFIC BARRIER

TEMPORARY TRAFFIC BARRIER (TTB) SHALL BE USED TO PREVENT VEHICLES FROM ENTERING THE WORK AREA, SEPERATE 2-WAY TRAFFIC AND AT SPECIFIC HAZARDS. EXPOSED ENDS TO APPROACHING TRAFFIC (SPEED OF 35 M.P.H. OR ABOVE) SHALL HAVE AN IMPACT ATTENUATOR OR BRIDGE ANCHOR SECTION, AS APPROPIATE, TO PROTECT TRAFFIC. FOR ROADWAYS WITH AN APPROACH SPEED OF LESS THAN 35 M.P.H., A 1'-6" T.T.B. HEIGTH TRANSITION SHALL BE PLACED AT THE APPROACH END OF THE TRAFFIC BARRIER.

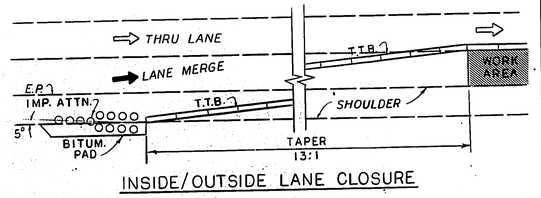
MAINTENANCE OF TEMPORARY TRAFFIC BARRIER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING REPLACEMENTS FOR TRAFFIC DAMAGED SECTIONS. DAMAGED SECTIONS SHALL BE REPLACED BY THE CONTRACTOR AS SOON AS PRACTICAL.

WHENEVER POSSIBLE, TEMPORARY TRAFFIC BARRIER TAPERS SHALL BE AT A RATE OF 13:1, TO THE NEAREST 10'.

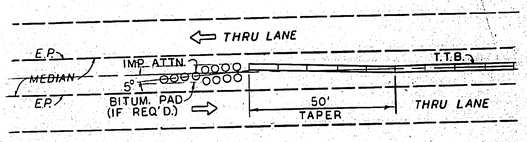
TYPICAL PLACEMENT



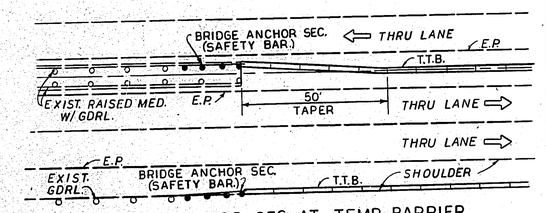
WORK ADJACENT TO SHOULDER



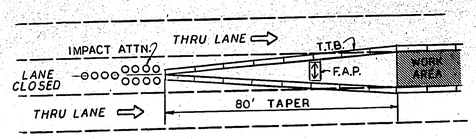
INSIDE/OUTSIDE LANE CLOSURE



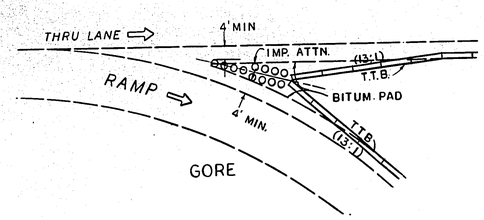
SEPERATE 2-WAY TRAFFIC
WITH IMPACT ATTENUATOR



BRIDGE ANCHOR SEC. AT TEMP. BARRIER



CENTER LANE CLOSED



SEE SPECIAL SHEET FOR HANDLING TRAFFIC.

TRAFFIC CONTROL PLAN
IMPACT ATTENUATOR AND TRAFFIC BARRIER

FINAL PLANS

SPECIAL SHEET 13 OF 16

1544 24 TO 1

REV JAN 26, 1990

STATE	JOB NO. J6I0647I 270	SHEET NO.
MO		82
DIST NO.	PROJECT NO. IR-IBG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

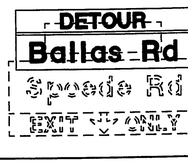
SPECIAL SIGN DETAIL SHEET

FINAL PLANS

SIGN NO. S4a, S8b
STATION 756+00, 771+00
QUANTITY REQ'D 2
OVERALL SIZE WIDTH 12 FT, HEIGHT 4 FT
BORDER WIDTH - IN, RADII - IN

BACKGROUND TYPE SHR I
COLOR LEGEND COLOR ORANGE REFLECT
COPY TYPE L-I
COLOR BLACK
BORDER TYPE NONE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.



INSTALL TEMPORARY PANEL OVER TOP EDGE OF EXIST SIGN & IT'S EXIT NO. PANEL
CENTER NEW PANEL ON EXIST SIGN HORIZONTALLY & OVERLAP LOWER PANEL BY 6"

SERIES E(M)

SPACE 3"
LINE 1 — COPY SIZE 12 — COPY [X] D E T O U R [X]
SPACE 37.17 | 12.65 | 10.47 | 11.29 | 13.03 | 12.65 | 9.57 | 37.17

SPACE 3"+2"BAR+6"
LINE 2 — COPY SIZE 6/12 — COPY [X] B a l l a s [X] R d [X]
SPACE 11.8 | 17.25 | 16.26 | 9.13 | 7.88 | 14.63 | 10.13 | 18 | 16.88 | 10.25 | 11.79

SPACE 6"
LINE 3 — COPY SIZE — COPY — SPACE

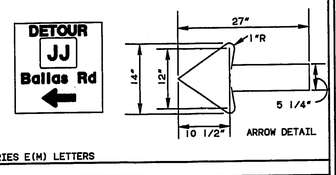
SPACE
LINE 4 — COPY SIZE — COPY — SPACE

SPACE

SIGN NO. TG3, TG4
STATION 17+60&122+60
SPOEDE RD
QUANTITY REQ'D 2
OVERALL SIZE WIDTH 6 FT, HEIGHT 6 FT
BORDER WIDTH - IN, RADII - IN

BACKGROUND TYPE HIGH DENSITY PLYWOOD
COLOR LEGEND COLOR ORANGE REFLECT
COPY TYPE L-I
COLOR BLACK
BORDER TYPE NONE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.



SERIES E(M) LETTERS — ARROW DETAIL

SPACE
LINE 1 — COPY SIZE — COPY — SAME AS SIGN TG1 BELOW
SPACE
LINE 2 — COPY SIZE — COPY — SAME AS SIGN TG1 BELOW
SPACE
LINE 3 — COPY SIZE — COPY — SAME AS SIGN TG1 BELOW
SPACE 5"
LINE 4 — COPY SIZE 14 — COPY [X] ← [X] — SPACE 22.5 | 27 | 22.5
SPACE 5"

SIGN NO.
STATION
QUANTITY REQ'D
OVERALL SIZE WIDTH FT, HEIGHT FT
BORDER WIDTH IN, RADII IN

BACKGROUND TYPE
COLOR LEGEND COPY TYPE
COLOR
BORDER TYPE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

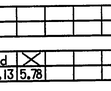
WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.

SPACE
LINE 1 — COPY SIZE — COPY — SPACE
LINE 2 — COPY SIZE — COPY — SPACE
LINE 3 — COPY SIZE — COPY — SPACE
LINE 4 — COPY SIZE — COPY — SPACE

SIGN NO. TG1
STATION 698+00
QUANTITY REQ'D 1
OVERALL SIZE WIDTH 6 FT, HEIGHT 6 FT
BORDER WIDTH - IN, RADII - IN

BACKGROUND TYPE HIGH DENSITY PLYWOOD
COLOR LEGEND COLOR ORANGE REFLECT
COPY TYPE L-I
COLOR BLACK
BORDER TYPE NONE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.



SERIES E(M)

SPACE 2"
LINE 1 — COPY SIZE 8 — COPY [X] D E T O U R [X]
SPACE 12.79 | 8.43 | 6.98 | 7.53 | 8.68 | 8.43 | 6.38 | 12.78

SPACE 2"
LINE 2 — COPY SIZE 24 — COPY [X] JJ [X]
SPACE 21 | 30 | 21

SPACE 4"
LINE 3 — COPY SIZE 8/6 — COPY [X] B a l l a s [X] R d [X]
SPACE 5.79 | 8.63 | 8.2 | 4.57 | 3.94 | 7.38 | 5.13 | 9 | 8.45 | 5.13 | 5.78

SPACE 7"
LINE 4 — COPY SIZE 10/8 — COPY [X] I [X] M I L E [X]
SPACE 17.1 | 3.32 | 8 | 9.43 | 3.65 | 7.53 | 5.88 | 17.09
SPACE 7"

SIGN NO.
STATION
QUANTITY REQ'D
OVERALL SIZE WIDTH FT, HEIGHT FT
BORDER WIDTH IN, RADII IN

BACKGROUND TYPE
COLOR LEGEND COPY TYPE
COLOR
BORDER TYPE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

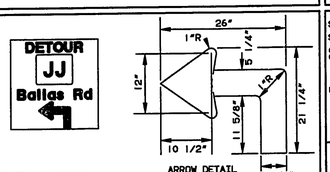
WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.

SPACE
LINE 1 — COPY SIZE — COPY — SPACE
LINE 2 — COPY SIZE — COPY — SPACE
LINE 3 — COPY SIZE — COPY — SPACE
LINE 4 — COPY SIZE — COPY — SPACE

SIGN NO. TG2
STATION 5+00 RP 4, SPOEDE RD
QUANTITY REQ'D 1
OVERALL SIZE WIDTH 6 FT, HEIGHT 6 FT
BORDER WIDTH - IN, RADII - IN

BACKGROUND TYPE HIGH DENSITY PLYWOOD
COLOR LEGEND COLOR ORANGE REFLECT
COPY TYPE L-I
COLOR BLACK
BORDER TYPE NONE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.



SERIES E(M) LETTERS — ARROW DETAIL

SPACE
LINE 1 — COPY SIZE — COPY — SAME AS SIGN TG1 ABOVE
SPACE
LINE 2 — COPY SIZE — COPY — SAME AS SIGN TG1 ABOVE
SPACE
LINE 3 — COPY SIZE — COPY — SAME AS SIGN TG1 ABOVE
SPACE 2"
LINE 4 — COPY SIZE 21 1/4 — COPY [X] ← [X] — SPACE 23 | 26 | 23
SPACE 3/4"

SIGN NO.
STATION
QUANTITY REQ'D
OVERALL SIZE WIDTH FT, HEIGHT FT
BORDER WIDTH IN, RADII IN

BACKGROUND TYPE
COLOR LEGEND COPY TYPE
COLOR
BORDER TYPE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.

SPACE
LINE 1 — COPY SIZE — COPY — SPACE
LINE 2 — COPY SIZE — COPY — SPACE
LINE 3 — COPY SIZE — COPY — SPACE
LINE 4 — COPY SIZE — COPY — SPACE

SIGN NO.
STATION
QUANTITY REQ'D
OVERALL SIZE WIDTH FT, HEIGHT FT
BORDER WIDTH IN, RADII IN

BACKGROUND TYPE
COLOR LEGEND COPY TYPE
COLOR
BORDER TYPE
ROUTE
MARKER TYPE
PANEL TYPE
POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.

SPACE
LINE 1 — COPY SIZE — COPY — SPACE
LINE 2 — COPY SIZE — COPY — SPACE
LINE 3 — COPY SIZE — COPY — SPACE
LINE 4 — COPY SIZE — COPY — SPACE

D-31

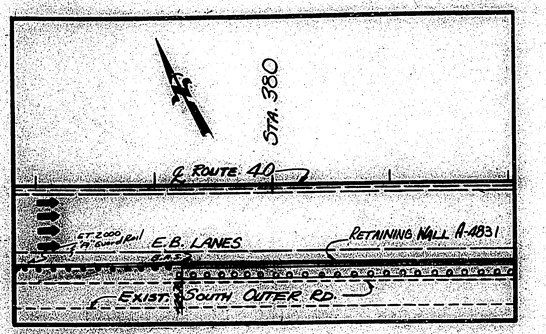
FINAL PLANS

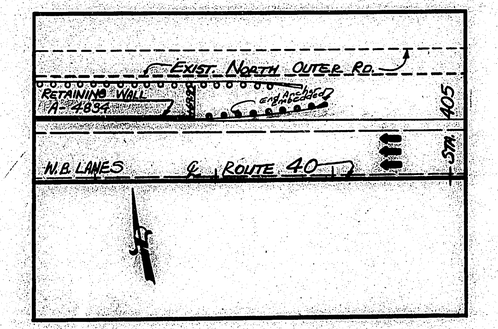
126 129

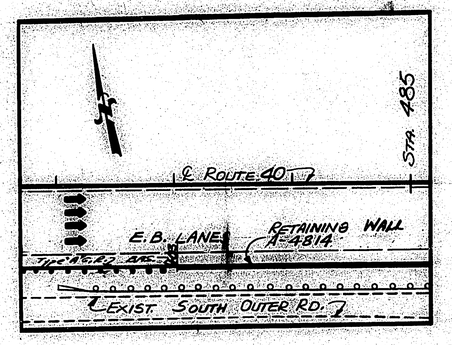
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 82A
DIST. NO. 6	PROJECT NO. IP-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

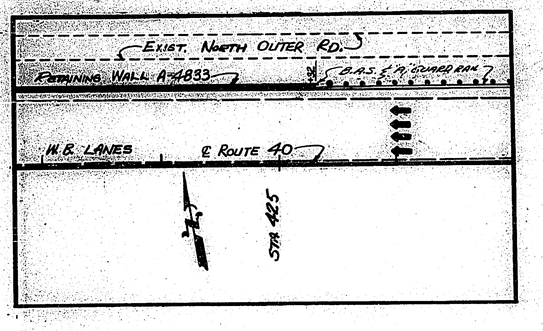


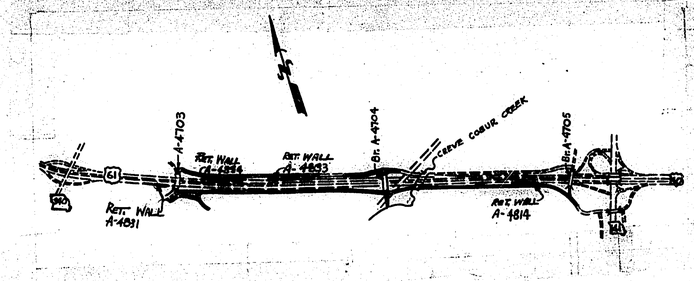




LOCATION SKETCHES

NOTE: GUARDRAIL TO BE ANCHORED INTO BACKSLOPE.





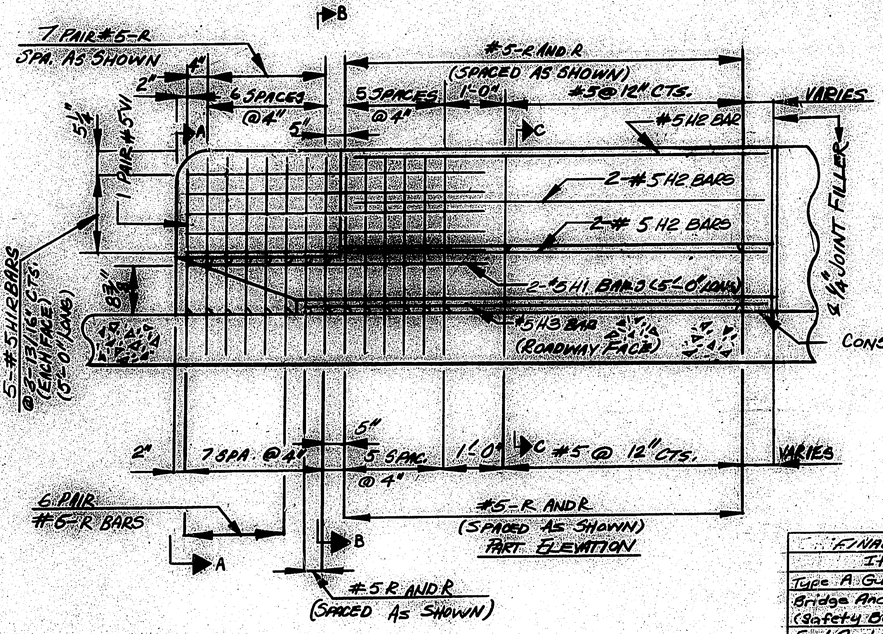
General Location Sketch

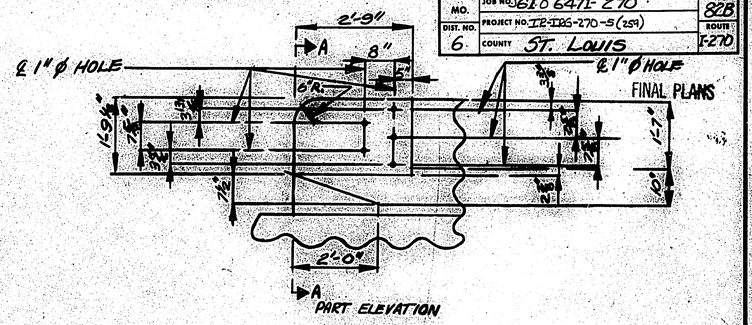
FINAL PLANS

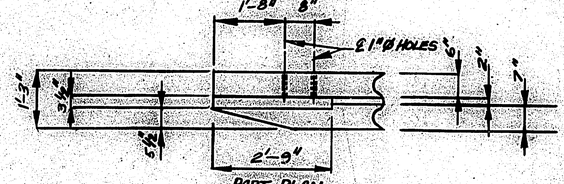
FINAL PLANS
SPECIAL SHEET
SHT. 16A OF 16

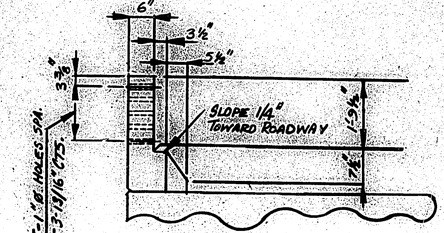
1544 24 TO 1

STATE MO.	JOB NO. J6I0647F C70	SHEET NO. 82B
DIST. NO. 6	PROJECT NO. IR-IBG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	





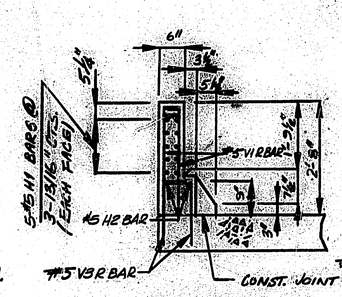


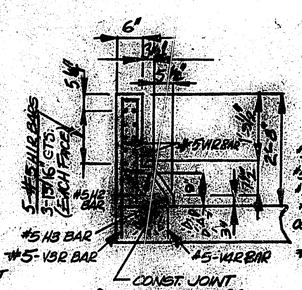


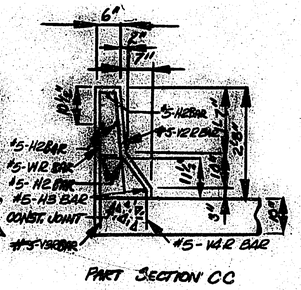
FINAL QUANTITIES		
ITEM	UNIT	TOTAL
CLASS B-1 CONC.	C.Y.	5.0
REINF. STEEL	LBS.	320

* NOTE: NO LBS additional Reinf. used for Bridge Anchor Sections in Traffic Barrier.

FINAL Quantities - Guard Rail		
Item	Unit	Total
Type A Guard Rail	Lin. Ft.	398.5
Bridge Anchor Section (Safety Barrier Curb)	Each	4
End Anchor, Embedded	Each	1
Safety End Treatment ET 2000	Each	1







Note: Remove Barrier Height Transition.
Remove Coping As Required.
Pour 2'-8" Barrier Curb Anchored Into Shoulder To End Of Wall.
All Concrete Shall Be Class B-1.
All Reinforcing Steel Shall Be Epoxy Coated.

Note: No direct payment will be made for Barrier Height Transition or Coping removal.

NOT TO SCALE

BAR BILL					
QUANTITY	MARK NO. SIZE	MARK	LOCATION	LENGTH FT.-IN.	WEIGHT LBS.
12	5	H1	EACH WALL	5'-0"	40
6	5	H2	" "	6'-11"	28
1	5	H3	" "	7'-11"	5
31	5	V1	" "	2'-7"	80
5	5	V2	" "	2'-8"	13
25	5	V3	" "	1'-10"	31
19	5	V4	" "	2'-0"	17
1	5	V1	" "	2'-4"	2
1	5	V2	" "	2'-5"	2
TOTAL POUNDS-REINF STEEL					218 LBS.
PAY = 220 # each x Guards					

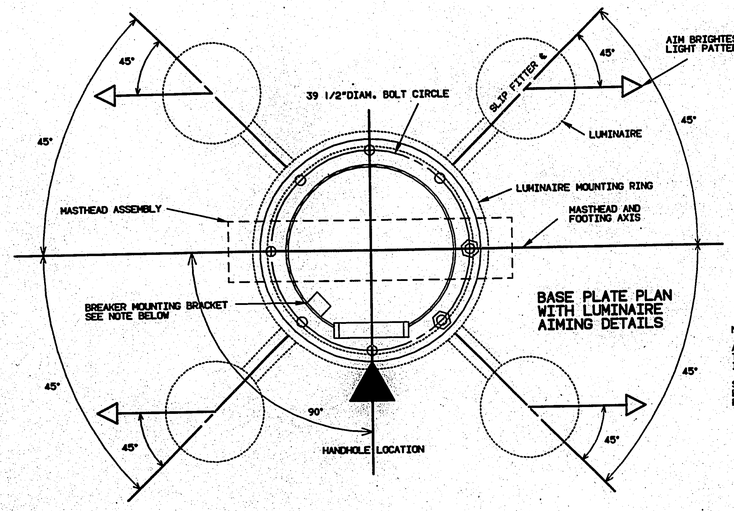
FINAL PLANS

RETAINING WALL END MODIFICATIONS
WALL NOS. A-4814, A-4831, A-4833 & A-4834
SPECIAL SHT. 16B of 16

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I 270	SHEET NO. 83
DIST. NO. 6	PROJECT NO. I-IRG-270-5(259)	ROUTE
	COUNTY ST LOUIS	I-270

FINAL PLANS



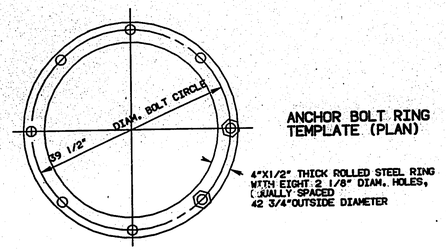
BASE PLATE PLAN WITH LUMINAIRE AIMING DETAILS

AIM BRIGHTEST LOBE OF EACH LUMINAIRE'S LIGHT PATTERN IN DIRECTION OF ARROWS

NOTE:

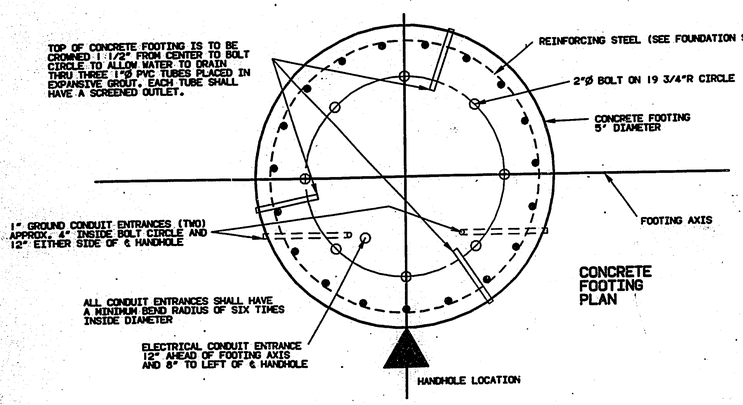
ALL SEVEN 150 FT. TOWERS ON THIS JOB ARE TO HAVE FOUR 1000 WATT LUMINAIRES EACH, AIMED IN THIS CONFIGURATION.

SEE FOOTING DETAIL SHEETS AND LIGHTING PLAN SHEETS FOR ORIENTATION OF EACH TOWER'S FOOTING AXIS TO ROADWAYS.

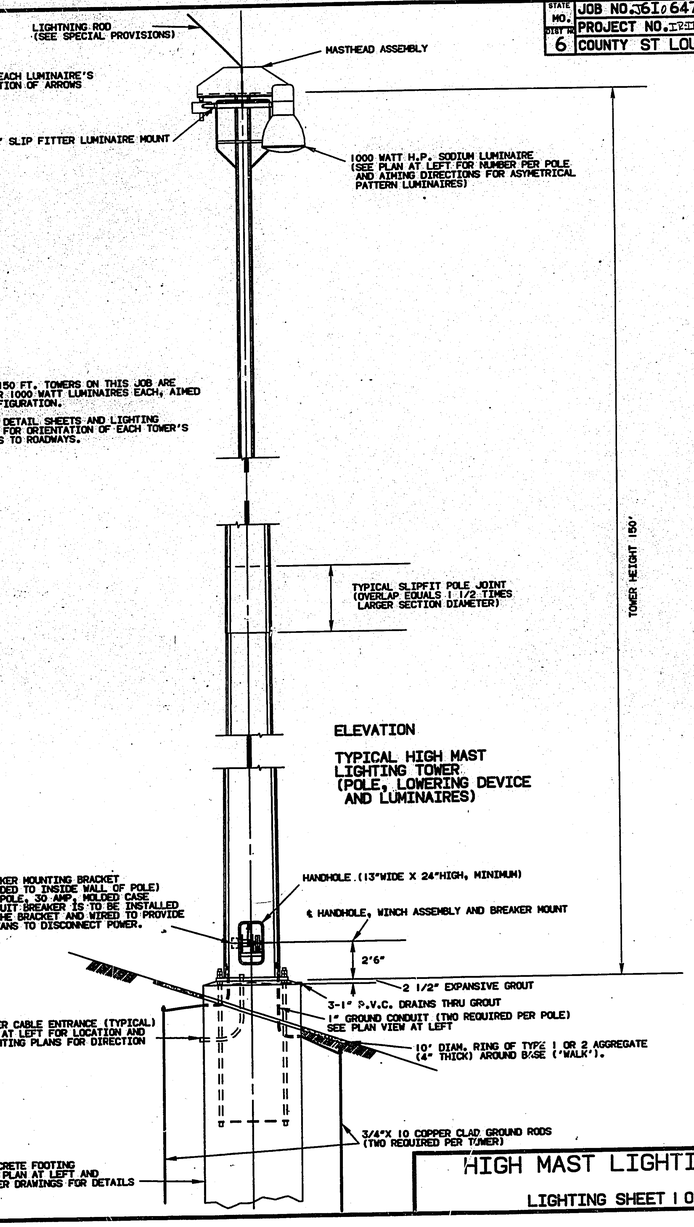


ANCHOR BOLT RING TEMPLATE (PLAN)

4"X1/2" THICK ROLLED STEEL RING WITH EIGHT 2 1/8" DIAM. HOLES, EQUALLY SPACED
42 3/4"OUTSIDE DIAMETER



CONCRETE FOOTING PLAN



ELEVATION

TYPICAL HIGH MAST LIGHTING TOWER (POLE, LOWERING DEVICE AND LUMINAIRES)

FINAL PLANS

HIGH MAST LIGHTING UNIT

LIGHTING SHEET 1 OF 3

REV. 04-99

127/132

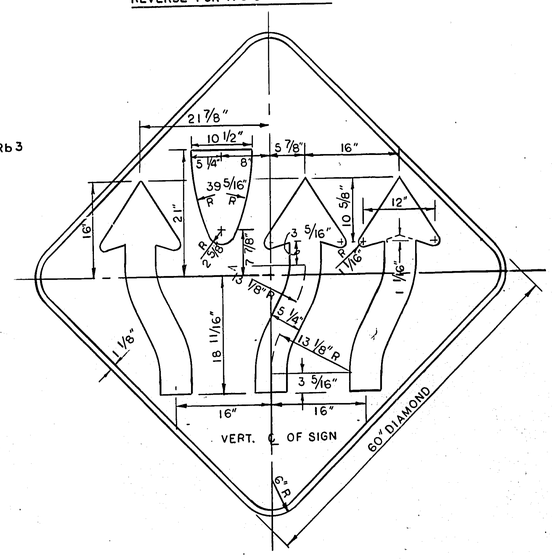
1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 80
DIST. NO. 6	PROJECT NO. IR-270-2(251)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

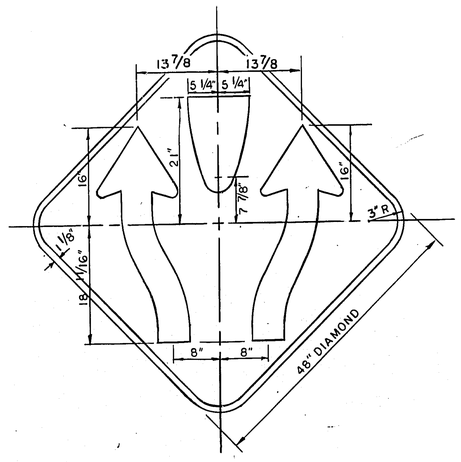
FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

W06-1c2R
REVERSE FOR W06-1c2L



SIGN NO.: W06-1c2R & W01-4Rb3
STA.: SEE T.C.P.
OVERALL SIZE:
WIDTH - 5 FT.
HEIGHT - 5 FT.
BORDER SIZE:
WIDTH - 1 1/8 IN.
RADII - 6 IN.
BACKGROUND:
TYPE - REFLECT.
COLOR - ORANGE
LEGEND:
COPY TYPE - LI
COLOR - BLACK
BORDER TYPE - LI
PANEL TYPE - SHRI

W06-1c



SIGN NO.: W06-1c & W01-4Rb2
STA.: SEE T.C.P.
OVERALL SIZE:
WIDTH - 4 FT.
HEIGHT - 4 FT.
BORDER:
WIDTH - 1 1/8 IN.
RADII - 6 IN.
BACKGROUND:
TYPE - REFLECT.
COLOR - ORANGE
LEGEND:
COPY TYPE - LI
COLOR - BLACK
BORDER TYPE - LI
PANEL TYPE - SHRI

SEE DWG. AT LEFT FOR OTHER DIMENSIONS

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

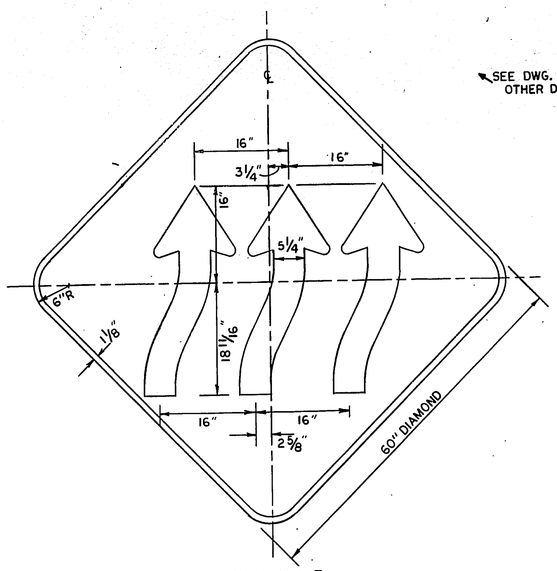
SIGN NO.: W06-1cx
EDUCATIONAL PLAQUE FOR W06-1c2R/2L AND W06-1c.
STA.: SEE T.C.P.
OVERALL SIZE:
WIDTH - 2 FT.
HEIGHT - 1.5 FT.
BORDER:
WIDTH - 1 IN.
RADII - 1 1/2 IN.
BACKGROUND:
TYPE - REFLECT.
COLOR - ORANGE
LEGEND:
COPY TYPE - LI
COLOR - BLACK
BORDER TYPE - LI
PANEL TYPE - SHRI

W06-1cx

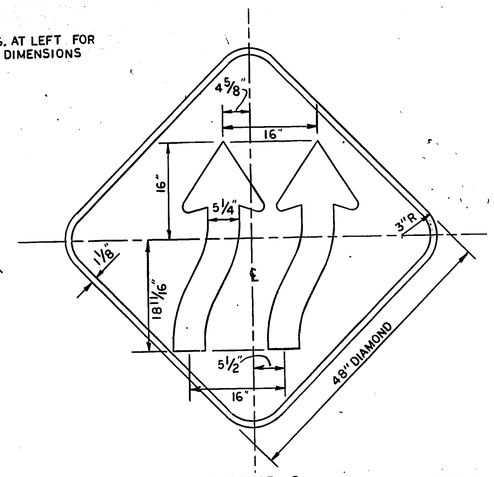
4" SERIES 'D' LETTERS

SPACE 3 3/4											
LINE 1	COPY SIZE	COPY	L	A	N	E	S				
	4" U.C.	SPACE	3.86	2.69	4.09	3.63	3.19	2.69	3.85		
SPACE 2 1/2											
LINE 2	COPY SIZE	COPY	D	I	V	I	D	E			
	4" U.C.	SPACE	3.81	3.63	1.37	3.75	1.56	3.63	2.44	3.81	
SPACE 3 3/4											

W01-4Rb3
REVERSE FOR W01-4Lb3



W01-4Rb2
REVERSE FOR W01-4Lb2



TRAFFIC CONTROL PLAN
SPECIAL SIGN DETAIL

FINAL PLANS

SPECIAL SHEET 14 OF 16

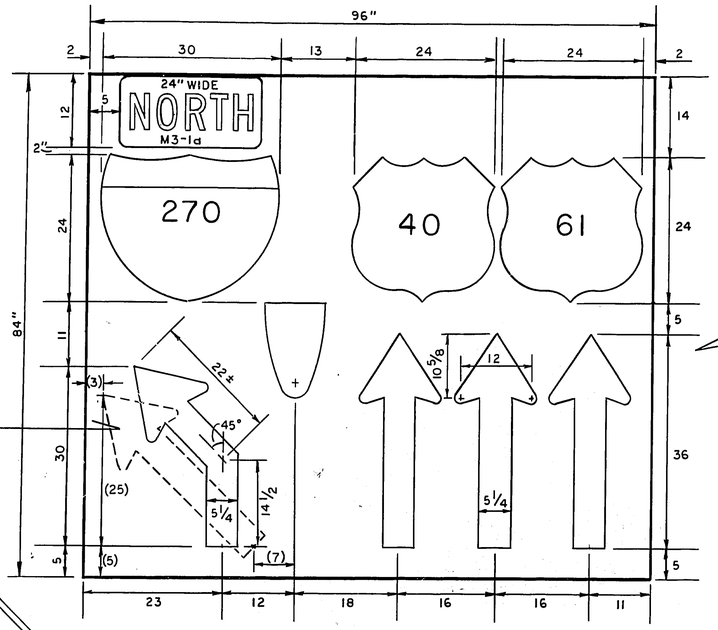
10/84 4

1544

24 TO 1

STATE MO.	JOB NO. J6I0647I 270	SHEET NO. 81
DIST. NO. 6	PROJECT NO. IP-IRS-270-5(259)	ROUTE
	COUNTY ST LOUIS	I-270

FINAL PLANS
NOT FOR CONSTRUCTION

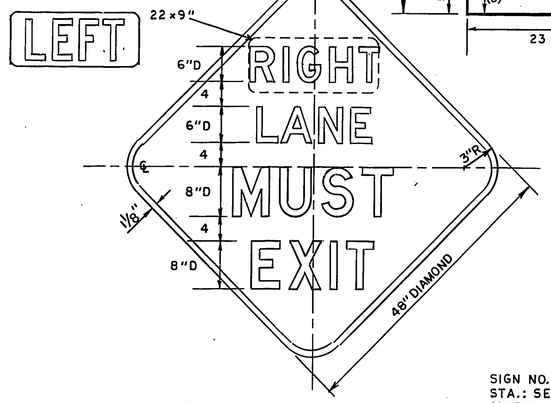


SIGN NO.: 122 / 123 / 126
STA.: 674+25 / 679+40 / 685+25
OVERALL SIZE:
WIDTH - 8 FT.
HEIGHT - 7 FT.
BORDER:
NONE

BACKGROUND:
TYPE - REFLECT. ON HIGH DENS. PLYWOOD
COLOR - ORANGE
LEGEND:
COPY TYPE - LI
COLOR - BLACK
NUMBER REQUIRED: 3

USE DIMENSIONS IN PARENTHESES AND 36"ARROW (WITHOUT BEND) FOR SIGN NO. 126 STA 685+25

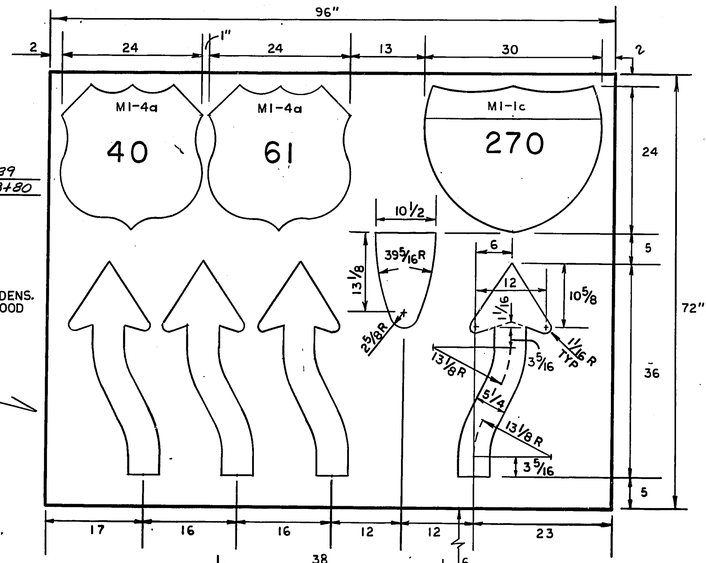
FOR W03-7L (LEFT):
ADD W025-3d TO COVER 'RIGHT'



*CENTER EACH LINE ON PANEL

6" SERIES D	COPY	⊠	R	I	G	H	T	⊠	
	SPACE	*	5.44	2.35	5.44	5.15	3.66	*	
SPACE 4"									
6" SERIES D	COPY	⊠	L	A	N	E	⊠		
	SPACE	*	4.04	6.14	5.44	3.66	*		
SPACE 4"									
8" SERIES D	COPY	⊠	M	U	S	T	⊠		
	SPACE	*	8.07	7.26	6.88	4.88	*		
SPACE 4"									
8" SERIES D	COPY	⊠	E	X	I	T	⊠		
	SPACE	*	6.38	6.88	2.75	4.88	*		

SIGN NO.: W03-7R
STA.: SEE T.C.P.
OVERALL SIZE:
WIDTH - 4 FT.
HEIGHT - 4 FT.
BORDER:
WIDTH - 1⅛ IN
RADII - 3 IN
BACKGROUND:
TYPE - SHRI, REFLECT.
COLOR - ORANGE
LEGEND:
COPY TYPE - LI
COLOR - BLACK
BORDER TYPE - LI
NUMBER REQUIRED:



SIGN NO.: 32 / 37 / 39
STA.: 717+00 / 711+30 / 703+80
OVERALL SIZE:
WIDTH - 8 FT.
HEIGHT - 6 FT.
BORDER:
NONE

BACKGROUND:
TYPE - REFLECT. ON HIGH DENS. PLYWOOD
COLOR - ORANGE
LEGEND:
COPY TYPE - LI
COLOR - BLACK
NUMBER REQUIRED: 3

TRAFFIC CONTROL PLAN
SPECIAL SIGN DETAIL
NOT FINAL

SPECIAL SHEET 15 OF 16

FINAL SURVEY	SUBMITTED	BY	DATE
	PLOTTED		
	NOTE BOOK	TEMPLATE	
	NO.	AREAS CHECKED	

ORIGINAL SURVEY	SUBMITTED	BY	DATE
	PLOTTED		
	NOTE BOOK	TEMPLATE	
	NO.	AREAS CHECKED	

QUALITY REPRO

1544

24 TO 1

REV JAN 26, 1990

STATE	JOB NO. J6I0647I 270	SHEET NO.
MO	PROJECT NO. IR-IRG-270-5(259)	82
DIST NO.		ROUTE
6	COUNTY ST LOUIS	I-270

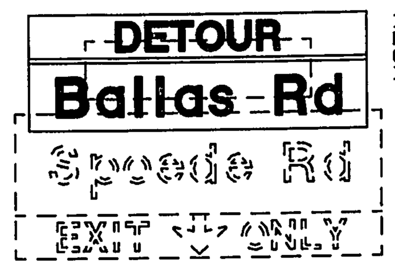
SPECIAL SIGN DETAIL SHEET

FINAL PLANS

SIGN NO. S4a, S8b

SIGN NO. S4a, S8b	BACKGROUND TYPE SHRI
STATION 756+00, 771+00	LEGEND COLOR ORANGE REFLECT
QUANTITY REQ'D 2	COPY TYPE L-1
OVERALL SIZE WIDTH 12 FT	COLOR BLACK
HEIGHT 4 FT	BORDER TYPE NONE
BORDER	ROUTE
WIDTH - IN	MARKER TYPE
RADII - IN	PANEL TYPE
	POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.



INSTALL TEMPORARY PANEL OVER TOP EDGE OF EXIST SIGN & IT'S EXIT NO. PANEL

CENTER NEW PANEL ON EXIST SIGN HORIZONTALLY & OVERLAP LOWER PANEL BY 6"

SERIES E(M)

SPACE 3"

LINE	COPY SIZE												
LINE 1	12	COPY	X	D	E	T	O	U	R	X			
		SPACE	37.17	12.65	10.47	11.29	13.03	12.65	9.57	37.17			

SPACE 3"+2"BAR+6"

LINE	COPY SIZE												
LINE 2	16/12	COPY	X	B	a	l	l	a	s	X	R	d	X
		SPACE	11.8	17.25	16.26	9.13	7.88	14.63	10.13	18	16.88	10.25	11.79

SPACE 6"

LINE 3 COPY SIZE / COPY / SPACE

SPACE

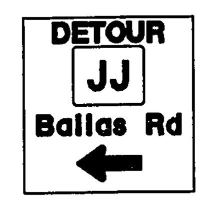
LINE 4 COPY SIZE / COPY / SPACE

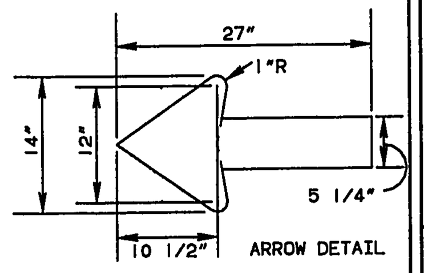
SPACE

SIGN NO. TG3, TG4

SIGN NO. TG3, TG4	BACKGROUND TYPE HIGH DENSITY PLYWOOD
STATION 17+50±, 22+50±, SPOEDE RD	LEGEND COLOR ORANGE REFLECT
QUANTITY REQ'D 2	COPY TYPE L-1
OVERALL SIZE WIDTH 6 FT	COLOR BLACK
HEIGHT 6 FT	BORDER TYPE NONE
BORDER	ROUTE
WIDTH - IN	MARKER TYPE
RADII - IN	PANEL TYPE
	POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.





ARROW DETAIL

SERIES E(M) LETTERS

SPACE

LINE 1 COPY SIZE / COPY: SAME AS SIGN TG1 BELOW

SPACE

LINE 2 COPY SIZE / COPY: SAME AS SIGN TG1 BELOW

SPACE

LINE 3 COPY SIZE / COPY: SAME AS SIGN TG1 BELOW

SPACE 5"

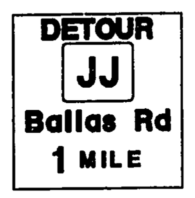
LINE	COPY SIZE				
LINE 4	14	COPY	X	←	X
		SPACE	22.5	27	22.5

SPACE 5"

SIGN NO. TG1

SIGN NO. TG1	BACKGROUND TYPE HIGH DENSITY PLYWOOD
STATION 698+00	LEGEND COLOR ORANGE REFLECT
QUANTITY REQ'D 1	COPY TYPE L-1
OVERALL SIZE WIDTH 6 FT	COLOR BLACK
HEIGHT 6 FT	BORDER TYPE NONE
BORDER	ROUTE
WIDTH - IN	MARKER TYPE
RADII - IN	PANEL TYPE
	POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.



SERIES E(M)

SPACE 2"

LINE	COPY SIZE												
LINE 1	8	COPY	X	D	E	T	O	U	R	X			
		SPACE	12.79	8.43	6.98	7.53	8.68	8.43	6.38	12.78			

SPACE 2"

LINE	COPY SIZE				
LINE 2	24	COPY	X	JJ	X
		SPACE	21	30	21

SPACE 4"

LINE	COPY SIZE												
LINE 3	8/6	COPY	X	B	a	l	l	a	s	X	R	d	X
		SPACE	5.79	8.63	8.2	4.57	3.94	7.38	5.13	9	8.45	5.13	5.78

SPACE 7"

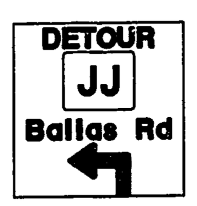
LINE	COPY SIZE									
LINE 4	10/8	COPY	X	1	X	M	I	L	E	X
		SPACE	17.1	3.32	8	9.43	3.65	7.53	5.88	17.09

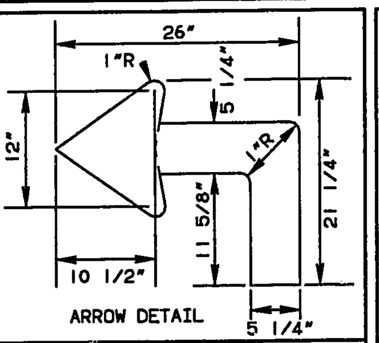
SPACE 7"

SIGN NO. TG2

SIGN NO. TG2	BACKGROUND TYPE HIGH DENSITY PLYWOOD
STATION 5+00 RP 4, SPOEDE RD	LEGEND COLOR ORANGE REFLECT
QUANTITY REQ'D 1	COPY TYPE L-1
OVERALL SIZE WIDTH 6 FT	COLOR BLACK
HEIGHT 6 FT	BORDER TYPE NONE
BORDER	ROUTE
WIDTH - IN	MARKER TYPE
RADII - IN	PANEL TYPE
	POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.





ARROW DETAIL

SERIES E(M) LETTERS

SPACE

LINE 1 COPY SIZE / COPY: SAME AS SIGN TG1 ABOVE

SPACE

LINE 2 COPY SIZE / COPY: SAME AS SIGN TG1 ABOVE

SPACE

LINE 3 COPY SIZE / COPY: SAME AS SIGN TG1 ABOVE

SPACE 2"

LINE	COPY SIZE				
LINE 4	21 1/4	COPY	X	↰	X
		SPACE	23	26	23

SPACE 3/4"

Blank sign forms (4)

SIGN NO.	BACKGROUND TYPE
STATION	LEGEND COLOR
QUANTITY REQ'D	COPY TYPE
OVERALL SIZE WIDTH FT	COLOR
HEIGHT FT	BORDER TYPE
BORDER	ROUTE
WIDTH IN	MARKER TYPE
RADII IN	PANEL TYPE
	POST SIZE

WIDTH-HORIZONTAL SPACING - INCHES. END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.

SPACE / LINE 1 COPY SIZE COPY SPACE / SPACE / LINE 2 COPY SIZE COPY SPACE / SPACE / LINE 3 COPY SIZE COPY SPACE / SPACE / LINE 4 COPY SIZE COPY SPACE / SPACE

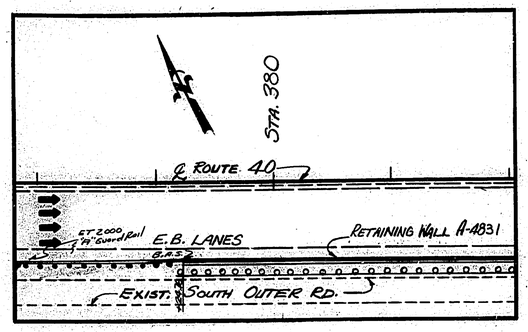
FINAL PLANS

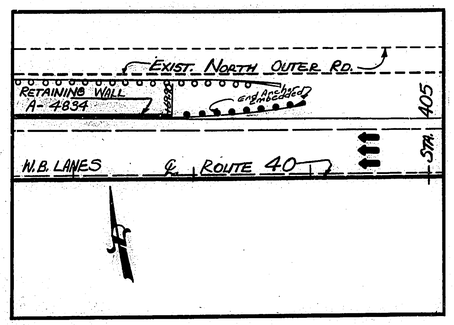
1544 24 TO 1

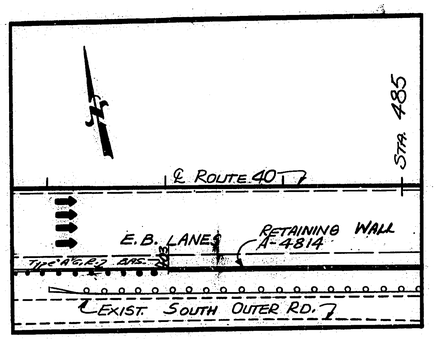
STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 82A
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

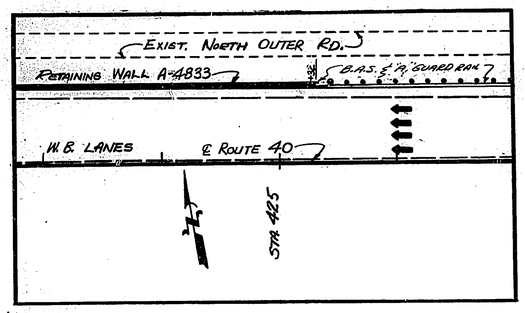
FINAL SURVEY:	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	



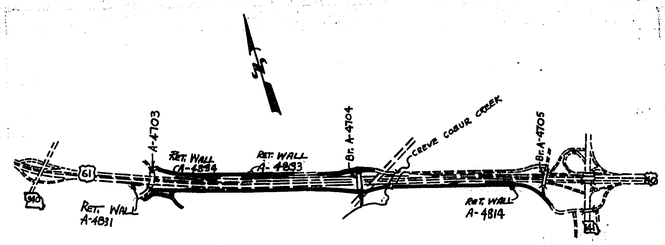




LOCATION SKETCHES



NOTE: GUARDRAIL TO BE ANCHORED INTO BACKSLOPE.



General Location Sketch

FINAL PLANS

FINAL PLANS
SPECIAL SHEET
SHT. 16A OF 16

ORIGINAL	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

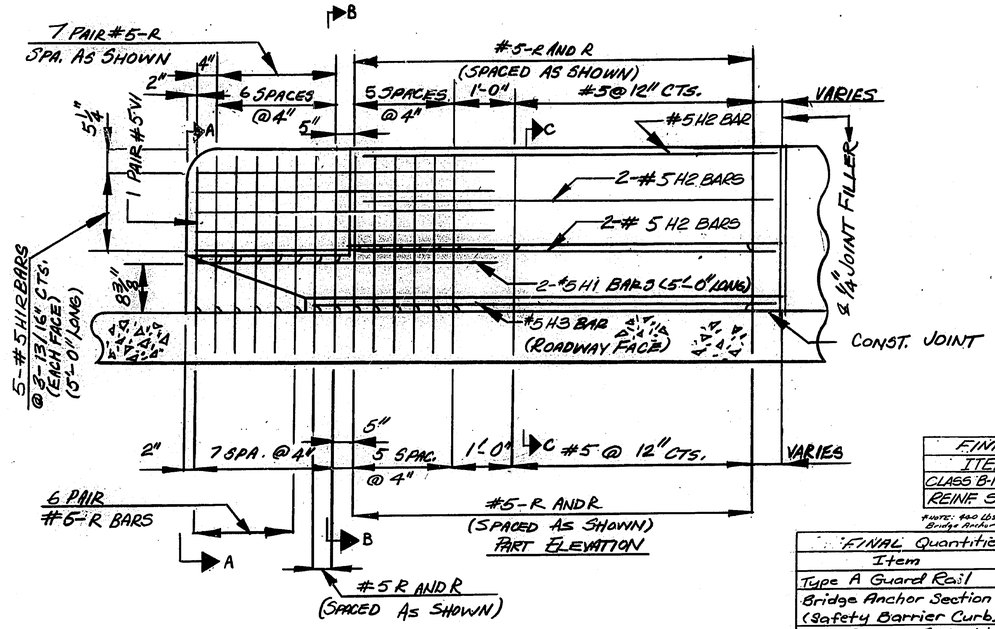
12-30

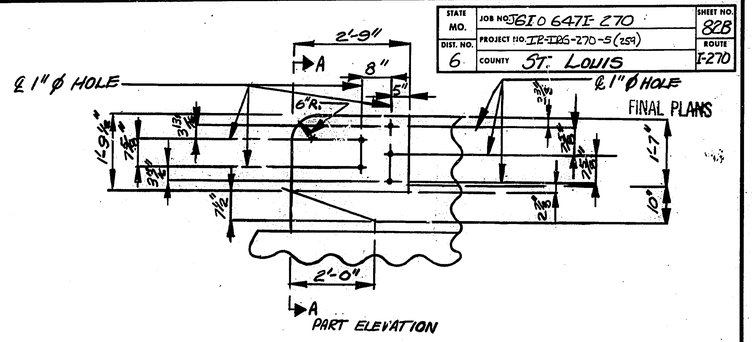
QUALITY REPRO

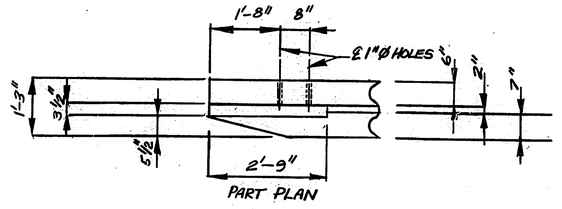
1544 24 TO 1

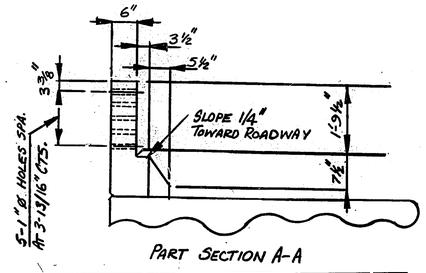
STATE	JOB NO. J6I0 647I C270	SHEET NO.
MO.		82B
DIST. NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	I-270

FINAL PLANS





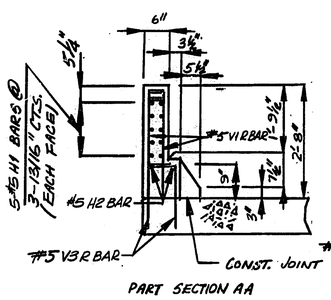


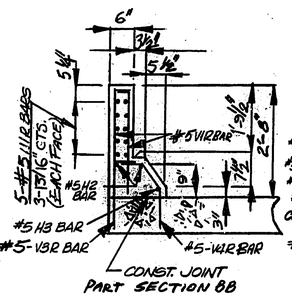


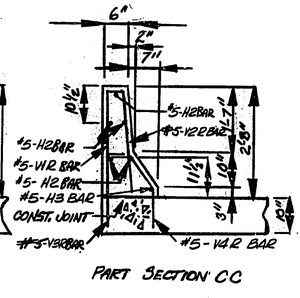
FINAL QUANTITIES		
ITEM	UNIT	TOTAL
CLASS B-1 CONC.	C.Y.	5.0
REINF. STEEL	LBS.	1320

#NOTE: 400 LBS additional Reinf. used for Bridge Anchor Sections in Traffic Barrier

FINAL Quantities - Guard Rail		
Item	Unit	Total
Type A Guard Rail	Lin. Ft.	398.5'
Bridge Anchor Section (Safety Barrier Curb)	Each	4
End Anchor, Embedded	Each	1
Safety End Treatment ET 2000	Each	1







BAR BILL					
QUANTITY	MARK NO. SIZE	MARK	LOCATION	LENGTH FT.-IN.	WEIGHT LBS.
12	5	H1	EACH WALL	5'-0"	40
6	5	H2	" "	6'-11"	28
1	5	H3	" "	7'-11"	5
31	5	V1	" "	2'-7"	80
5	5	V2	" "	2'-8"	13
25	5	V3	" "	1'-10"	31
13	5	V4	" "	2'-0"	17
1	5	V1	" "	2'-4"	2
1	5	V2	" "	2'-5"	2
TOTAL POUNDS REINF STEEL					218 #9
PAY = 220# Each X Guards					

Note: Remove Barrier Height Transition. Remove Coping As Required. Pour 2'-8" Barrier Curb Anchored Into Shoulder To End Of Wall. All Concrete Shall Be Class B1. All Reinforcing Steel Shall Be Epoxy Coated.

Note: No direct payment will be made for Barrier Height Transition or Coping removal.

NOT TO SCALE

RETAINING WALL END MODIFICATIONS
WALL NOS. A-4814, A-4831 A-4833 & A-4834

SPECIAL SHT. 16B of 16

FINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, NO, DATE, BY, AREAS CHECKED

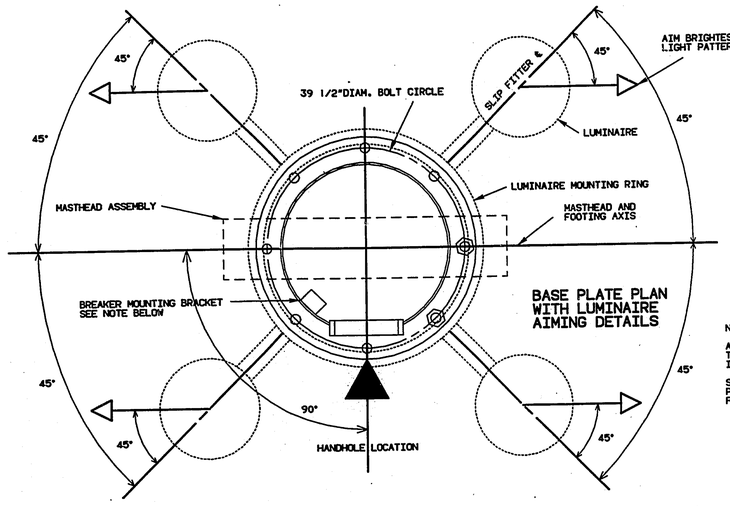
ORIGINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, NO, DATE, BY, AREAS CHECKED

QUALITY REPRO

1544 24 TO 1

STATE NO.	JOB NO. J6I0647I 270	SHEET NO. 83
DIST NO. 6	PROJECT NO. I-2IR6-70-5(259)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS



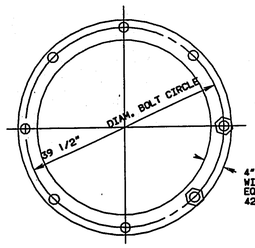
AIM BRIGHTEST LOBE OF EACH LUMINAIRE'S LIGHT PATTERN IN DIRECTION OF ARROWS

BASE PLATE PLAN WITH LUMINAIRE AIMING DETAILS

NOTE:

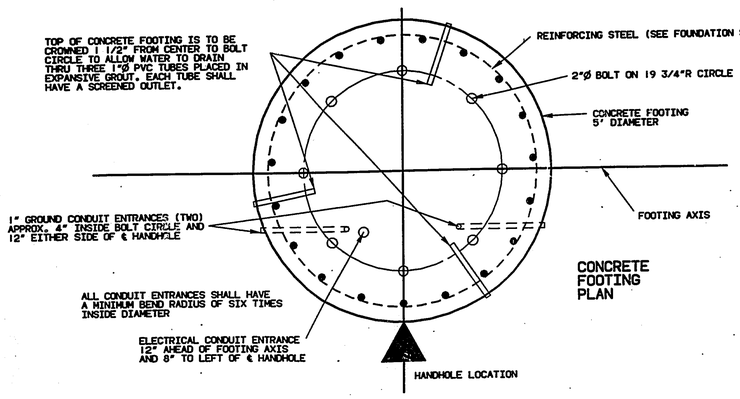
ALL SEVEN 150 FT. TOWERS ON THIS JOB ARE TO HAVE FOUR 1000 WATT LUMINAIRES EACH, AIMED IN THIS CONFIGURATION.

SEE FOOTING DETAIL SHEETS AND LIGHTING PLAN SHEETS FOR ORIENTATION OF EACH TOWER'S FOOTING AXIS TO ROADWAYS.

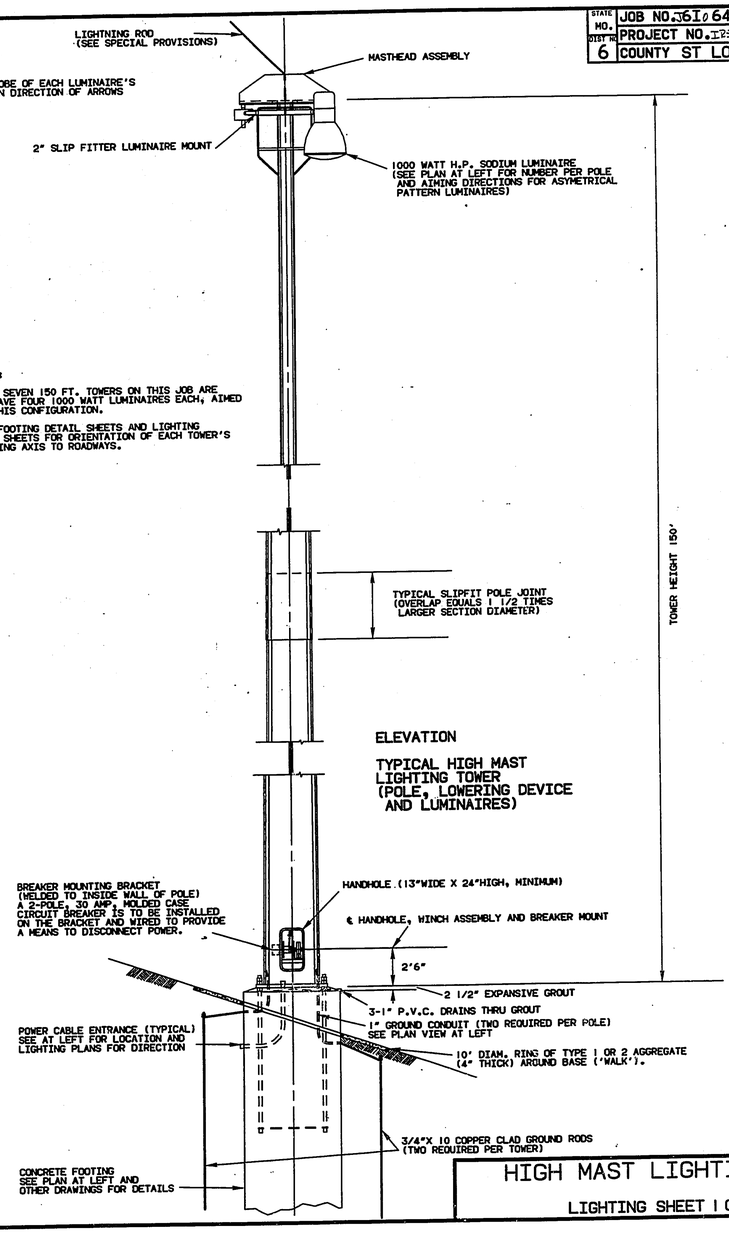


ANCHOR BOLT RING TEMPLATE (PLAN)

4"X1/2" THICK ROLLED STEEL RING WITH EIGHT 2 1/8" DIAM. HOLES, EQUALLY SPACED
42 3/4"OUTSIDE DIAMETER



CONCRETE FOOTING PLAN



ELEVATION

TYPICAL HIGH MAST LIGHTING TOWER (POLE, LOWERING DEVICE AND LUMINAIRES)

FINAL PLANS

HIGH MAST LIGHTING UNIT

LIGHTING SHEET 1 OF 3

REV. 06-89

129/132

1544 24 TO 1

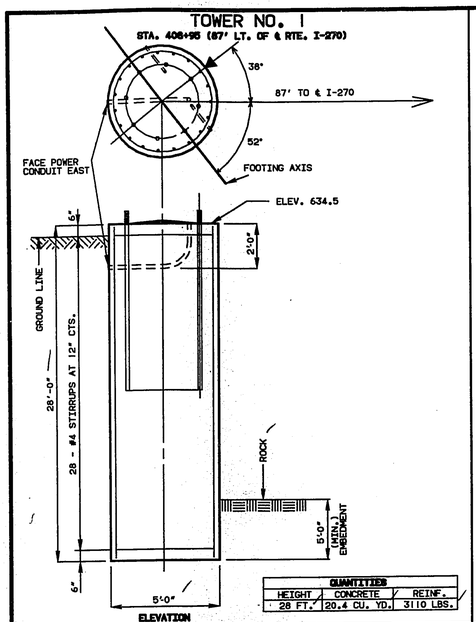
STATE	JOB NO. J6I0647I 270	SHEET NO. 84
MO	PROJECT NO. I-IBG-270-5 (259)	ROUTE
DIST NO. 6	COUNTY ST LOUIS	I-270

150 FT. HIGHMAST LIGHTING FOUNDATIONS

FINAL PLANS

TOWER NO. 1

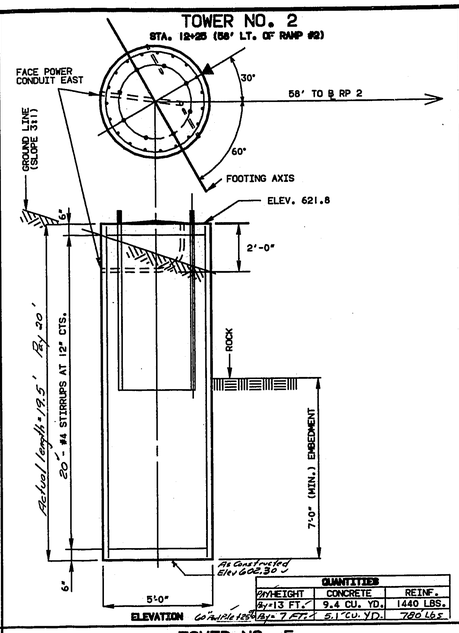
STA. 408+95 (87' LT. OF ℄ RTE. I-270)



QUANTITIES		
HEIGHT	CONCRETE	REINF.
28 FT.	20.4 CU. YD.	3110 LBS.

TOWER NO. 2

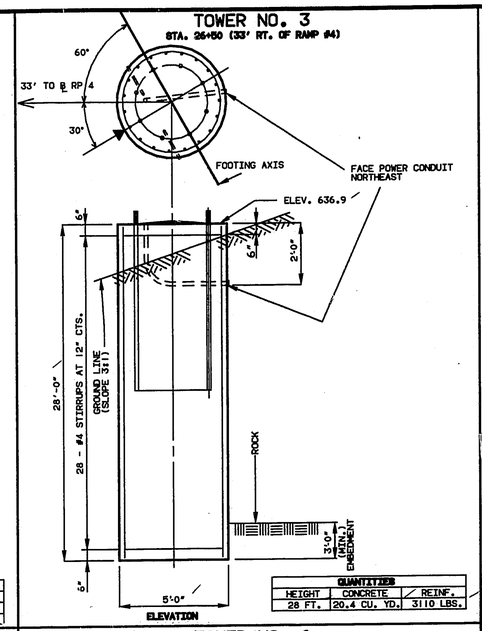
STA. 12+25 (58' LT. OF RAMP #2)



QUANTITIES		
HEIGHT	CONCRETE	REINF.
27 FT.	9.4 CU. YD.	1440 LBS.
6'-13 FT.	5.1 CU. YD.	780 LBS.

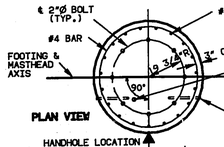
TOWER NO. 3

STA. 26+50 (33' RT. OF RAMP #4)

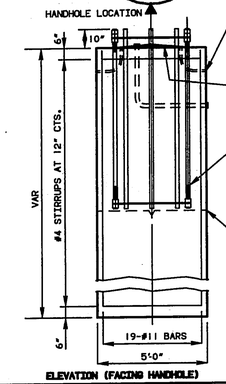


QUANTITIES		
HEIGHT	CONCRETE	REINF.
28 FT.	20.4 CU. YD.	3110 LBS.

PLAN VIEW



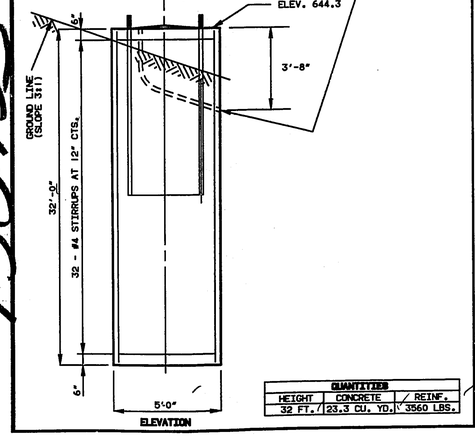
HANDHOLE LOCATION



ELEVATION (FACING HANDHOLE)

TOWER NO. 4

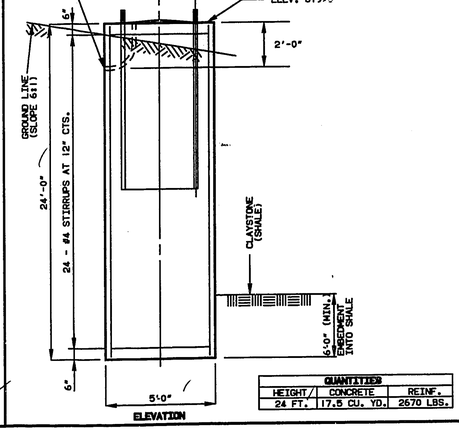
STA. 674+82 (69' RT. OF ℄ W.B.L. RTE. 40)



QUANTITIES		
HEIGHT	CONCRETE	REINF.
32 FT.	23.3 CU. YD.	3560 LBS.

TOWER NO. 5

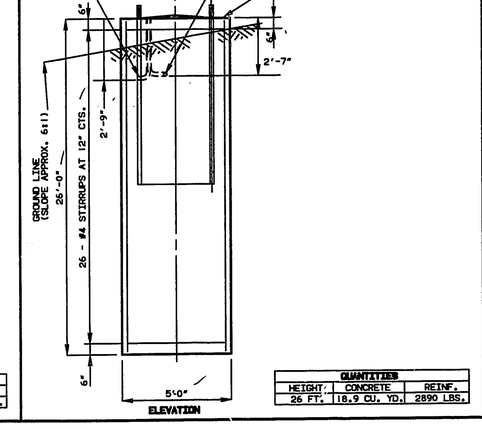
STA. 12+50 (33' RT. OF ℄ RAMP #8)



QUANTITIES		
HEIGHT	CONCRETE	REINF.
24 FT.	17.5 CU. YD.	2670 LBS.

TOWER NO. 6

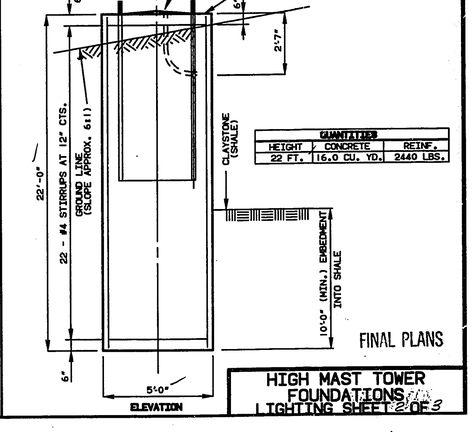
STA. 24+65 (48' RT. OF ℄ RAMP #6)



QUANTITIES		
HEIGHT	CONCRETE	REINF.
26 FT.	18.9 CU. YD.	2890 LBS.

TOWER NO. 7

STA. 424+13 (87' LT. OF ℄ RTE. I-270)



QUANTITIES		
HEIGHT	CONCRETE	REINF.
22 FT.	16.0 CU. YD.	2440 LBS.

FINAL PLANS

HIGH MAST TOWER FOUNDATIONS & LIGHTING SHEET 2 OF 3

130/133

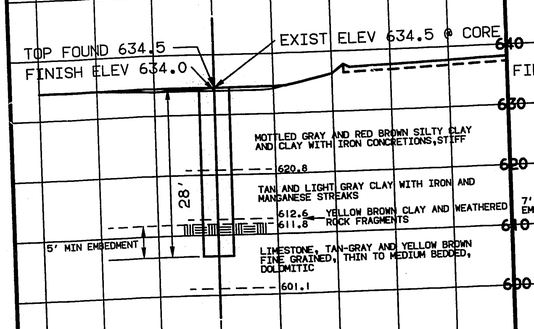
1544 24 TO 1

STATE	JOB NO. J6I0647I 270	SHEET NO.
MO		85
DISTRICT 6	PROJECT NO. IR-IB6-270-5 (259)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS

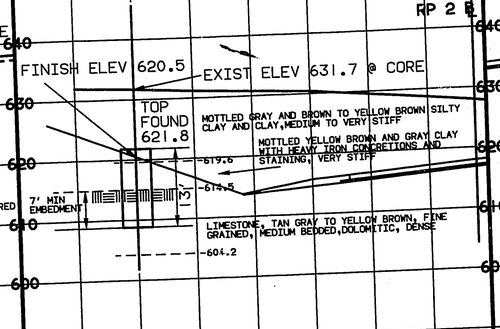
TOWER NO. 1

STA. 408+95 (87' LT. OF ℄ RTE. I-270)



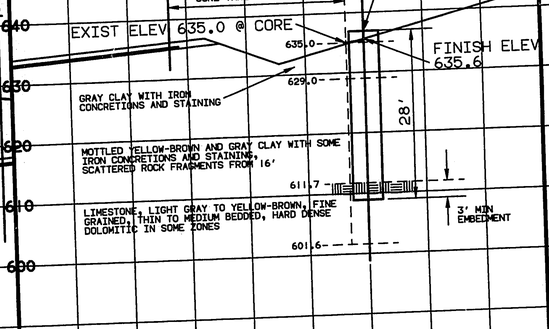
TOWER NO. 2

STA. 12+25 (58' LT. OF ℄ RAMP 2)



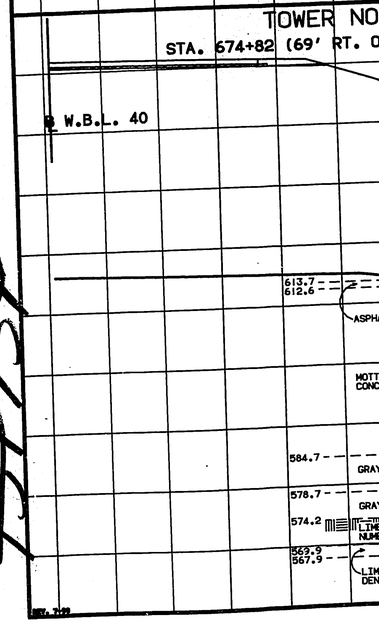
TOWER NO. 3

STA. 26+50 (33' RT. OF RAMP 4)



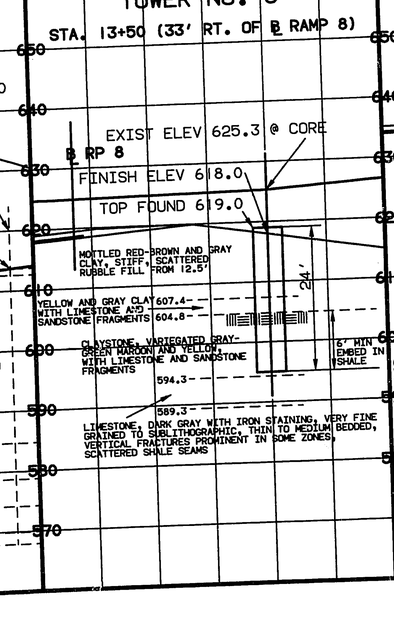
TOWER NO. 4

STA. 674+82 (69' RT. OF ℄ W.B.L. RTE. 40)



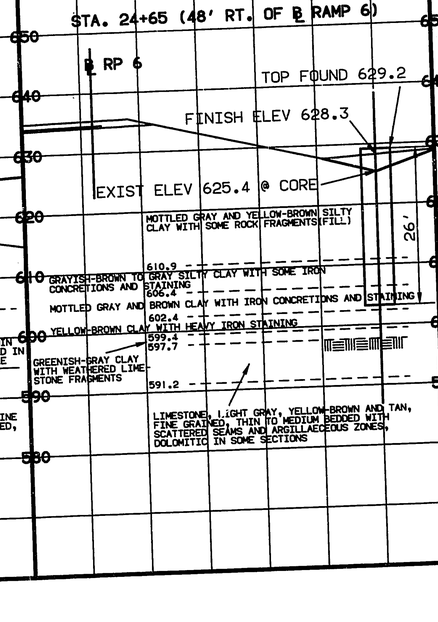
TOWER NO. 5

STA. 13+50 (33' RT. OF ℄ RAMP 8)



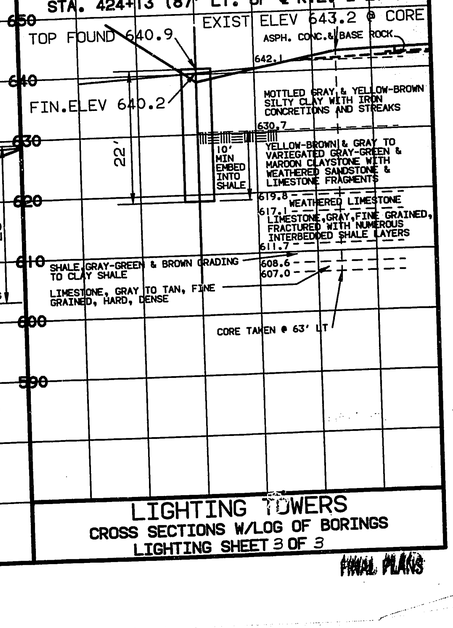
TOWER NO. 6

STA. 24+65 (48' RT. OF ℄ RAMP 6)



TOWER NO. 7

STA. 424+13 (87' LT. OF ℄ RTE. I-270)



LIGHTING TOWERS
CROSS SECTIONS W/LOG OF BORINGS
LIGHTING SHEET 3 OF 3

FINAL PLANS

134136

1544 24 TO 1

STATE MO.	JOB NO. JGI0647I- 270	SHEET NO. 86
DIST. NO. 6	PROJECT NO. IR-IR6-270-5(259)	ROUTE 270
	COUNTY ST. LOUIS	

FINAL PLANS

Notes: • These plans are marked to show the number of existing sign lights & the number of New Panel-Vue Luminaires to be used to Relamp each truss. See Sign Trusses 5, 2, 15, 4, 10 & 13. See also Special Provisions.
• Trusses 14 & 16 (SB I-270) are to be relamped when signs are modified on a future job.
• Trusses *2, 6 & 9 (NB I-270) already have Panel-Vue Luminaires and will have signs modified on a future job.
*(Station 432+65 NB I-270)

Add I-64 Shield to 5(b)
EXIT 12
(a) 10.5x2 Remove Replace w/7.5x2
10.8-A
64 40 61 Wentzville St Louis 1¼ MILES
13x11 (b)
7.5x2 (c) 13
AB Ladue Rd
11.5x8 (d) (U/P)
Modify Sign
16.5'x7' (b) U/P
NB Olive Blvd ½ | Page Ave 2½ | Dorsett Rd 3¼
SB Ladue ½ | US 40-61 1¾ | Manchester Rd 4
17.5'x7' (a) U/P
N 2x1' 2.5x2'
370 270 G1 370+00
440.73 PCC. LN.
+00.75 147.81' R/W
+24.57 147.81' R/W
+52.24 158.32' R/W
375
16.5x7 (U/P) (b)
NB Ladue Rd. 1¼ | Olive Blvd. 1¼ | Page Ave 3½
SB US 40-61 ¾ | Manchester Rd 3 | Big Bend Rd 5½
17.5x7 (U/P) (a)
377+50 - 150' Lt. 240V Multi-Cir (U.I.P.)
R/W LINE
V SHLDR
P.C.C. PVMT.
RESURFACED
P.C.C. PVMT. & SHLDR.
'A' MED. BAR
I-270
D.I.
6'x250W (R) Relamp w/2
Z20-270-5(21)
345
21" R.C.P.
18" R.C.P.
36'
12'
6'
60'
16" R.C.P.
AUX. LN
10'
5x250W Exist.(R) Relamp w/2
4x5 10 (U/P)
346+00 95' TRUSS (U.I.P.) JR270-5(21)
5 SIGN TRUSS U/P 325+00
2
375+00 (U/P)
+00 BERM
10'+10'/8' SIGN TRUSS 450 (U/P)
12
PVD. 'V' DT.
+00
L2-1
New Cir. L-2 #4 AWG
MATCH LINE 380+00 SEE THIS SHEET
+69.84 180.26' R/W
+35.08 167.4' R/W
+03.30 150' R/W
+37.47 150' R/W
7.5x2 (a) 13
AB Ladue
12x8 (b) (U/P)
6.5x7.5 LANE ENDS MERGE LEFT (c) New Panel
JR270-5(22)
W9-1R5 RIGHT LANE ENDS 4x4
G2
+04.98 161.26' R/W
+05.86 150' R/W
+58.83 149.85
D1 L2-1
D1 L2-2
New Cir L-2
#4 AWG
385
D1 L2-3
PVD. 'V' DT.
390
D2 L2-5
D1 L2-4
15
3x250W Exist.(R) Relamp w/2
105' SIGN TRUSS (U.I.P.)
+15 110' Lt.
+65 110' RT.
M.H.
M4-1 D1
M4-2 D1
M4-3 D1
M4-4 D1
M4-5, D2
21" R.C.P.
PVD. 5' F.B. DT.
P.D.E.
PVD. 4' F.B. DT.
385+00 (U/P)
386+48 127' Lt.
3 (U/P)
55 40
5x250W Exist.(U/P)
Cir. M-1 #8 AWG Abandoned
New Cir. M-4 #6 AWG
Cir. M-7 #8 AWG Abandoned
14
+00 175' R/W - 200'
+75 175' R/W - 200'
+50 150' R/W
JR270-5(23)
270 Tulsa MI
12x11 (a) (U/P)
WEST NORTH 40 61 Wentzville
9x2 (U/P) 12
15x12.5 (U/P)
+80 150' R/W
+35 190' R/W - 215'
+00 150' R/W
FLEX DELIN | Y ▲ | W ● | EW ○
NB 270 | 0 | 2 | 20
SB | 0 | 2 | 20
THIS SHEET (DELIN. SPACING = 100' UNLESS NOTED)
SCALE 150' 100' 50' 0 50'
LIGHTS & SIGNS
NORTHERN END
I-270
SHEET 1 OF 30
Cir L-1, L-2, M-1, M-4
5 12 14 15 17 18
3/91 NN

DATE | BY | SURVEYED | DRAWN | NOTE BOOK | TEMPLATE | AREAS CHECKED | NO
FINAL SURVEY
ORIGINAL SURVEY

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I- 270	SHEET NO 88
DIST. NO. 6	PROJECT NO. IR-IRB-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

SOUTH 270 Tulsa | 270 NORTH Chicago

Use in Place, Uncover

Job No. 6-T-270-647B

61 5-#8 Rpl 4 50' Truss (UIP)

Splice in Truss / Column

3-#6

3X250W (UIP)

2"x60' (UIP)

Cir Q-1 New #2AWG

10' 3' 24' 3'

10' 36' 6'

+690

690

+150 F-F

Tower #3

80'

axis parallel #Rp1

60°

33'

70' DELIN

25

PB Q1A (UIP)

RAMP 1 (UIP)

12x15 Rd 95' RPQ 240V Multi-Cir. (UIP)

P.S. (UIP)

Cir Q-1 #2 AWG (UIP)

24'

Splice Cir Q-2 in PB Q2A (UIP)

2"x100' (UIP)

12460

RAMP 4

#6 AWG

Cir Q-2 #6 AWG (UIP)

Q2-2

Q2-1

(UIP)

RAMP 1

403+00

MATCH SHEET 2

405

410

I-270

404+47 I-270

W4-3

G3

G4

4x4

32'9" Rp ⊀

Tower #1

Note: Triangle (▲) denotes location of handhole on each tower.

404+95 87'Lt

52°

New Cir Q-2 #6 AWG

axis parallel #Rp1

FLEX

DELIN	▲	●	O
NB 270	0	5	0
WB 40	3	1	0
RP 1	3	0	0
4	5	12	0
6	5	1	0

THIS SHEET

UIP EXIST

MATCH LINE SEE SHEET 4

RAMP 6 BR NO. A-4650

W.B.L. RTE 40 BR. NO. A-4650

SEE SHEET 5 EXIST ℄ RTE. 40

685

+685

Abandon

Abandon

40'

36'

12'

6'

+448.7 F-F

415

SCALE 150' 100' 50' 0 50'

LIGHTS & SIGNS N.E. CORNER OF I-270 AND RTE. 40-61

SHEET 3 OF 30

Cir Q-1,2 FINAL PLANS

4/41

NE

1544 24 TO 1

FINAL PLANS

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 89
DIST. NO. 6	PROJECT NO. IR-IR6-2705(254)	ROUTE I-270
	COUNTY ST. LOUIS	

MATCH SHEET 2

403+00

I-270

405

410

415

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 6

Future Six 150W H.P.S. Underpass Luminaires

Br. No. A-4657 (FUTURE)

U10 U11 U12

60'

FUTURE

FUTURE

BY PASS

RET. WALL

RET. WALL

B(R)

EXIST. RTE. 40

680+

680

Br. No. A-4650

RAMP 3

RAMP 2

RAMP 8

RAMP 6

Not in Use

DELIN 75'

DELIN 75'

Tower #2 axis parallel to Br. A-4657

CIR. M-3 NEW #00 AWG

PB5M

PB3M

PB4M

3" Conduit (UIP)

Abandoned

Cir M-3 #00 AWG in 3" Conduit

Splice

Cir M-3 New #00 AWG

12x250W

12x250W SB 1+25

SB 1+45

PB2 (UIP)

PB3

PB4

PB5

PB6

PB7

PB8

G5

G6

405+42±

E1-5b

12

EXIT

E5-1

(a) 4.5x2

(b) 6x5

23

14x12.5(a)

14x12.5(b)

EAST SOUTH

WEST NORTH

24 40 61

Wentzville

Cover for Future Use

N. FORTY DR.

W4-3

4x4

W.B.L. RTE 40

Tower #4

675

674+82

69'RT

Cir V-1 #4 AWG

102°

OHS

675

200'

57'

36'

10'

15'

25'

MATCH LINE SEE SHEET 10

673+45

Cir M-3, V-1

FINAL PLANS

FLEX

DELIN	▲	●	○
SB 270	0	0'	0'
WB 40	2'	2'	0
RP 2	2'	7'	0
3	6'	16'	0
6	0'	0'	0
8	4'	6'	0

THIS SHEET

SCALE

150' 100' 50' 0 50'

LIGHTS & SIGNS
N.W. CORNER OF
I-270 AND RTE 40-61
SHEET 4 OF 30

FINAL SURVEY: SURVEYED, PLOTTED, NOTE BOOK, NO., BY, DATE, TEMPLATE, AREAS CHECKED

ORIGINAL SURVEY: SURVEYED, PLOTTED, NOTE BOOK, NO., BY, DATE, AREAS CHECKED, LAST CHANGED

135 30

4I NW

3/91

1544 24 TO 1

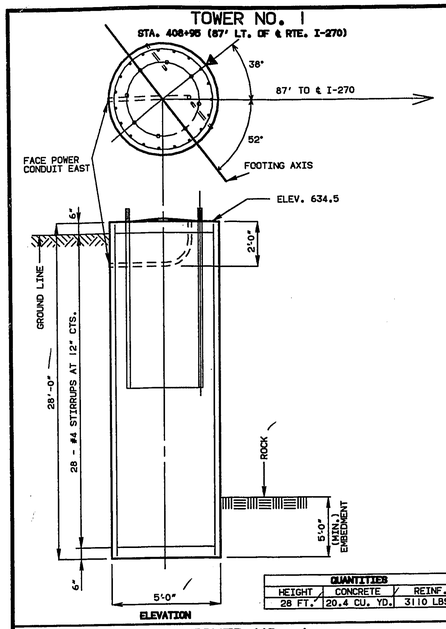
STATE	JOB NO. J6I0647I 270	SHEET NO. 24
MO	PROJECT NO. I-IR6-270-5 (259)	
DIST NO. 6	COUNTY ST LOUIS	ROUTE I-270

150 FT. HIGHMAST LIGHTING FOUNDATIONS

FINAL PLANS

TOWER NO. 1

STA. 408+95 (87' LT. OF ℄ RTE. I-270)

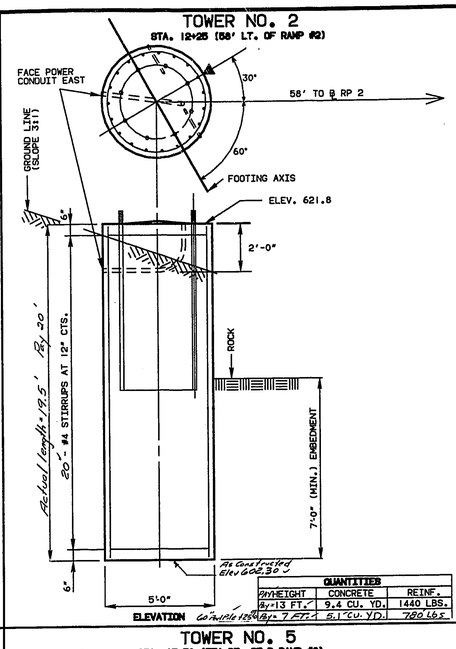


ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
28 FT.	20.4 CU. YD.	3110 LBS.

TOWER NO. 2

STA. 12+25 (58' LT. OF RAMP #2)



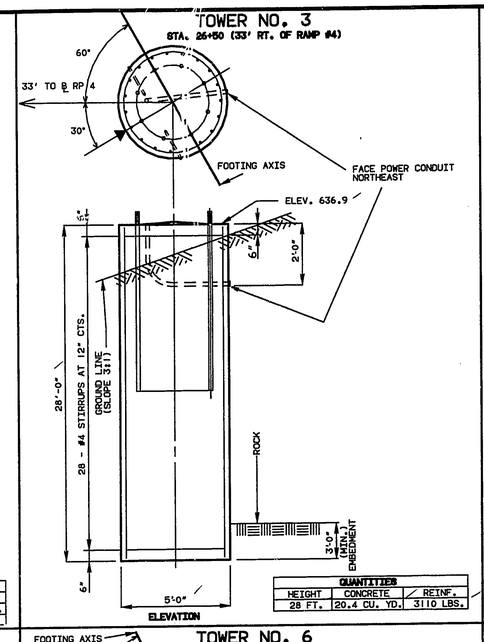
ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
19.13 FT.	9.4 CU. YD.	1440 LBS.

Go with 15% Rx. 7.5FT. 5.1 CU. YD. 700 Lbs.

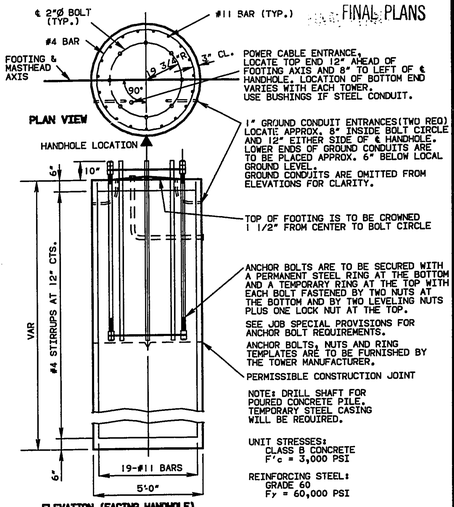
TOWER NO. 3

STA. 26+50 (33' RT. OF RAMP #4)



ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
28 FT.	20.4 CU. YD.	3110 LBS.



ELEVATION (FACING HANDHOLE)

POWER CABLE ENTRANCE, LOCATE TOP END 12" AHEAD OF FOOTING AXIS AND 8" TO LEFT OF ℄ HANDHOLE. LOCATION OF BOTTOM END VARIES WITH EACH TOWER. USE BUSHINGS IF STEEL CONDUIT.

1" GROUND CONDUIT ENTRANCES(TWO REQ) LOCATE APPROX. 8" INSIDE BOLT CIRCLE AND 12" EITHER SIDE OF ℄ HANDHOLE. LOWER ENDS OF GROUND CONDUITS ARE TO BE PLACED APPROX. 6" BELOW LOCAL GROUND LEVEL. GROUND CONDUITS ARE OMITTED FROM ELEVATIONS FOR CLARITY.

TOP OF FOOTING IS TO BE CROWNED 1 1/2" FROM CENTER TO BOLT CIRCLE

ANCHOR BOLTS ARE TO BE SECURED WITH A PERMANENT STEEL RING AT THE BOTTOM AND A TEMPORARY RING AT THE TOP WITH EACH BOLT FASTENED BY TWO NUTS AT THE BOTTOM AND BY TWO LEVELING NUTS PLUS ONE LOCK NUT AT THE TOP.

SEE JOB SPECIAL PROVISIONS FOR ANCHOR BOLT REQUIREMENTS.

ANCHOR BOLTS, NUTS AND RING TEMPLATES ARE TO BE FURNISHED BY THE TOWER MANUFACTURER.

PERMISSIBLE CONSTRUCTION JOINT

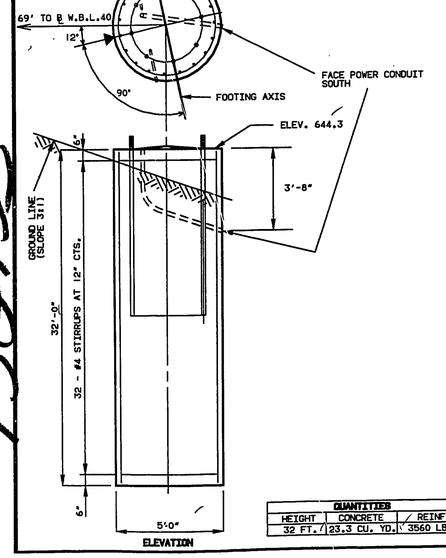
NOTE: DRILL SHAFT FOR POURED CONCRETE PILE. TEMPORARY STEEL CASING WILL BE REQUIRED.

UNIT STRESSES:
CLASS B CONCRETE
F'c = 3,000 PSI

REINFORCING STEEL:
GRADE 60
Fy = 60,000 PSI

TOWER NO. 4

STA. 674+82 (69' RT. OF ℄ W.B.L. RTE. 40)

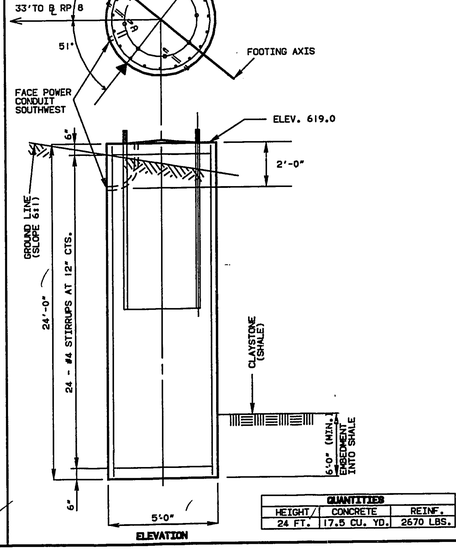


ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
32 FT.	23.3 CU. YD.	3560 LBS.

TOWER NO. 5

STA. 12+50 (33' RT. OF ℄ RAMP #6)

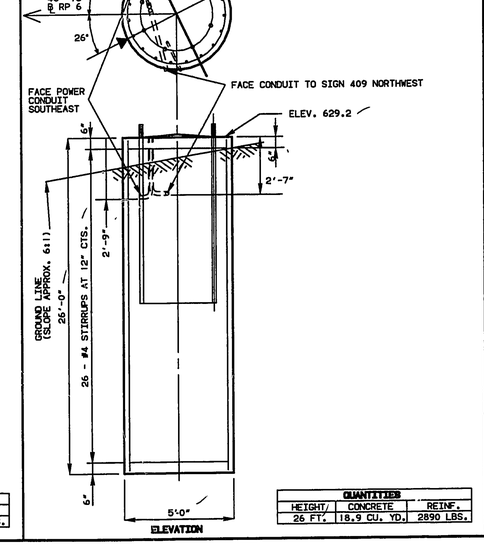


ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
24 FT.	17.5 CU. YD.	2670 LBS.

TOWER NO. 6

STA. 24+65 (48' RT. OF ℄ RAMP #6)

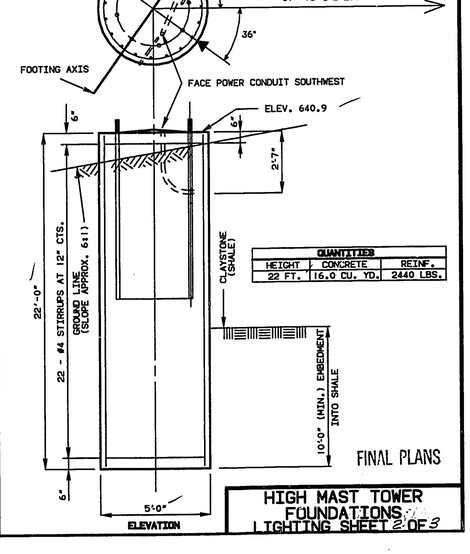


ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
26 FT.	18.9 CU. YD.	2890 LBS.

TOWER NO. 7

STA. 424+13 (87' LT. OF ℄ RTE. I-270)



ELEVATION

QUANTITIES		
HEIGHT	CONCRETE	REINF.
22 FT.	16.0 CU. YD.	2440 LBS.

FINAL PLANS

HIGH MAST TOWER FOUNDATIONS LIGHTING SHEET 2 OF 3

38133

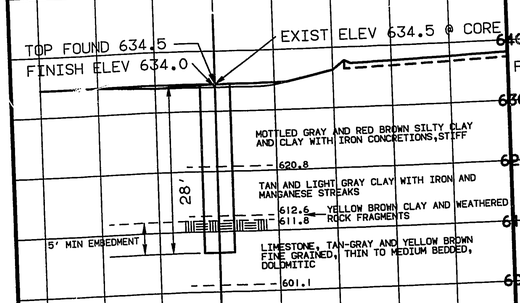
1544 24 TO 1

STATE	JOB NO. 6I0647I 270	SHEET NO. 85
MO	PROJECT NO. I2-I26-270-5 (259)	ROUTE I-270
DISTRICT 6	COUNTY ST LOUIS	

FINAL PLANS

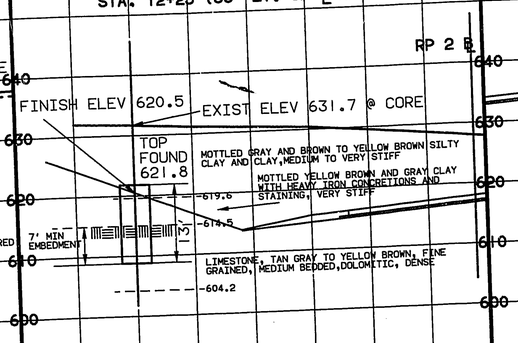
TOWER NO. 1

STA. 408+95 (87' LT. OF ℄ RTE. I-270)



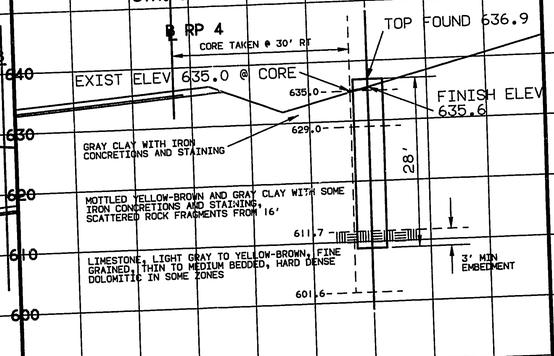
TOWER NO. 2

STA. 12+25 (58' LT. OF ℄ RAMP 2)



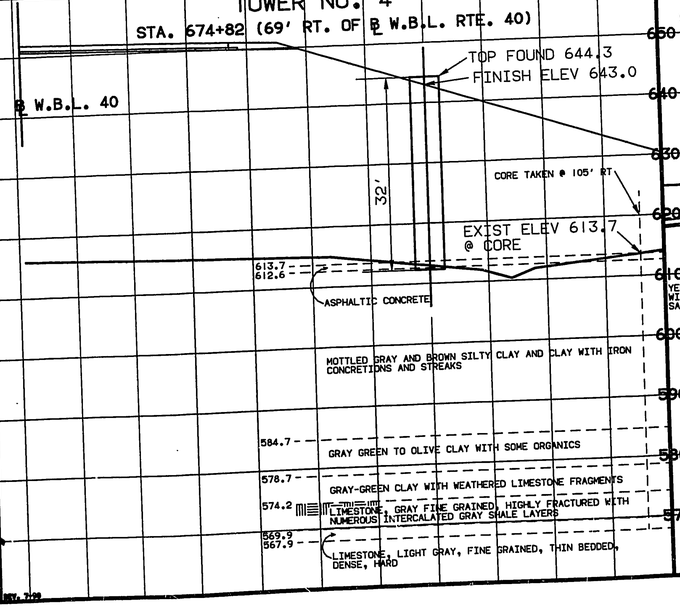
TOWER NO. 3

STA. 26+50 (33' RT. OF RAMP 4)



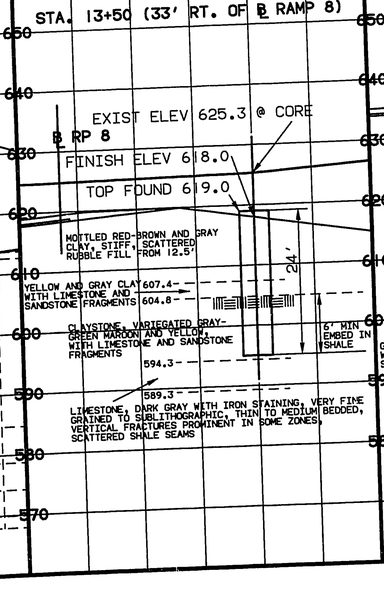
TOWER NO. 4

STA. 674+82 (69' RT. OF ℄ W.B.L. RTE. 40)



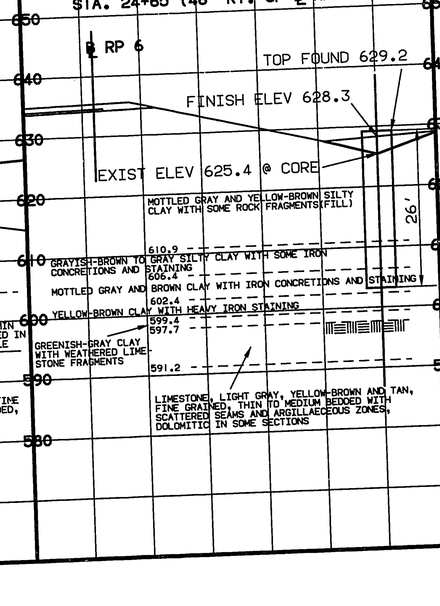
TOWER NO. 5

STA. 13+50 (33' RT. OF ℄ RAMP 8)



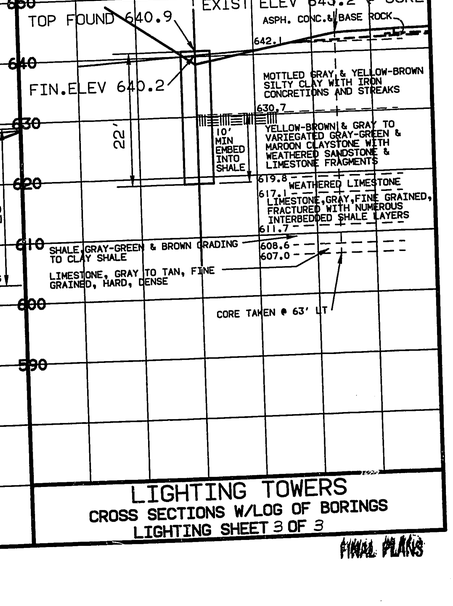
TOWER NO. 6

STA. 24+65 (48' RT. OF ℄ RAMP 6)



TOWER NO. 7

STA. 424+13 (87' LT. OF ℄ RTE. I-270)



LIGHTING TOWERS
CROSS SECTIONS W/LOG OF BORINGS
LIGHTING SHEET 3 OF 3

FINAL PLANS

3L139

1544 24 TO 1

Notes: • These plans are marked to show the number of existing sign lights & the number of New Panel-Vue Luminaires to be used to Relamp each truss. See Sign Trusses 5, 2, 15, 4, 10 & 13. See also Special Provisions.
• Trusses 14 & 16 (SB I-270) are to be relamped when signs are modified on a future job.
• Trusses *2, 6 & 9 (NB I-270) already have Panel-Vue Luminaires and will have signs modified on a future job.
*(Station 432+65 NB I-270)

STATE MO.	JOB NO J6I0647I- 270
DIST NO 6	PROJECT NO IR-I(26-270-5(259)
	COUNTY ST. LOUIS
SHEET NO	86
ROUTE	270

FINAL PLANS

Add I-64 Shield to 5(b)
EXIT 12 (a) 28-A
Wentzville St Louis 1¼ MILES
13x11 (b)
Remove 10.5x2 Replace w/7.5x2
7.5x2(c) 13
Ladue Rd E 0
11.5x8(d) (U/P)
16.5'x7'(b) U/P
NB Olive Blvd ½ Page Ave 2½ Dorsett Rd 3¼
SB Ladue ½ US 40-61 1⅜ Manchester Rd 4
17.5x7'(b) U/P
16.5x7 (U/P) (b)
NB Ladue Rd. 1¼ Olive Blvd 1¼ Page Ave 3½
SB US 40-61 ¾ Manchester Rd 3 Big Bend Rd 5½
17.5x7 (U/P) (a)
377+50 - 150 Lt
240V Multi-Cir (U/I.P)
Median Slope
6 x 250 W (R) Relamp w/2
5x250W Exist.(R) Relamp w/2
4x5 (U/P)
346+00 95' TRUSS (U/P) I-2-270-5(212)
SIGN TRUSS U/P 323+50
21" RCP
18" RCP
16" RCP
30" RCP
P.C.C. PVMT.
RESURFACED
P.C.C. PVMT. & SHLDR.
'A' MED. BAR
I-270
AUX. LN
R/W LINE
375+00 (U/P)
+00 BERM
10'+10'18' SIGN TRUSS (U/P) +50
PVD. 'V' DT.
New Cir L-2 #4 AWG
Cir L-2
MATCH LINE 380+00 SEE THIS SHEET
7.5x2 (a) 13 AB Ladue E 0 12x8(b) (U/P)
6.5x7.5 LANE ENDS MERGE LEFT (c) New Panel
I-2-270-5(212)
W5-1R5 RIGHT LANE ENDS 4x4
G2
+69.84 180.26' R/W
+35.08 167.4' R/W
+03.30 150' R/W
+37.47 150' R/W
+04.98 161.26' R/W
+05.86 150' R/W
+00 150' R/W
+58.83 149.85
385+00 #4 AWG
390
395+00
New Cir L-2 #6 AWG
3x250W Exist.(R) Relamp w/2
5x250W Exist.(U/P)
SIGN TRUSS (U/P)
Cir M-1 #8 AWG Abandoned
Cir M-T #8 AWG Abandoned
New Cir M-4 #6 AWG
Cir M-4
MATCH LINE 395+00 SEE SHEET 2
M4-1 D1
M4-2 D1
M4-3 D1
M4-4 D1
M4-5, D2
PVD. 5' F.B. DT.
P.D.E.
PVD. 4' F.B. DT.
385+40 RT (U/P)
386+48 LT (U/P)
+80 150' R/W
+35 190' R/W - 215'
+35 190' R/W - 215'
+00 150' R/W
+50 150' R/W
+00 175' R/W - 200'
+75 175' R/W - 200'
I-2-270-5(212)
270 Tulsa
40 61 WEST NORTH Wentzville
12x11(a) (U/P)
15x12.5 (U/P)
9x2 (U/P) 12B
FLEX DELIN

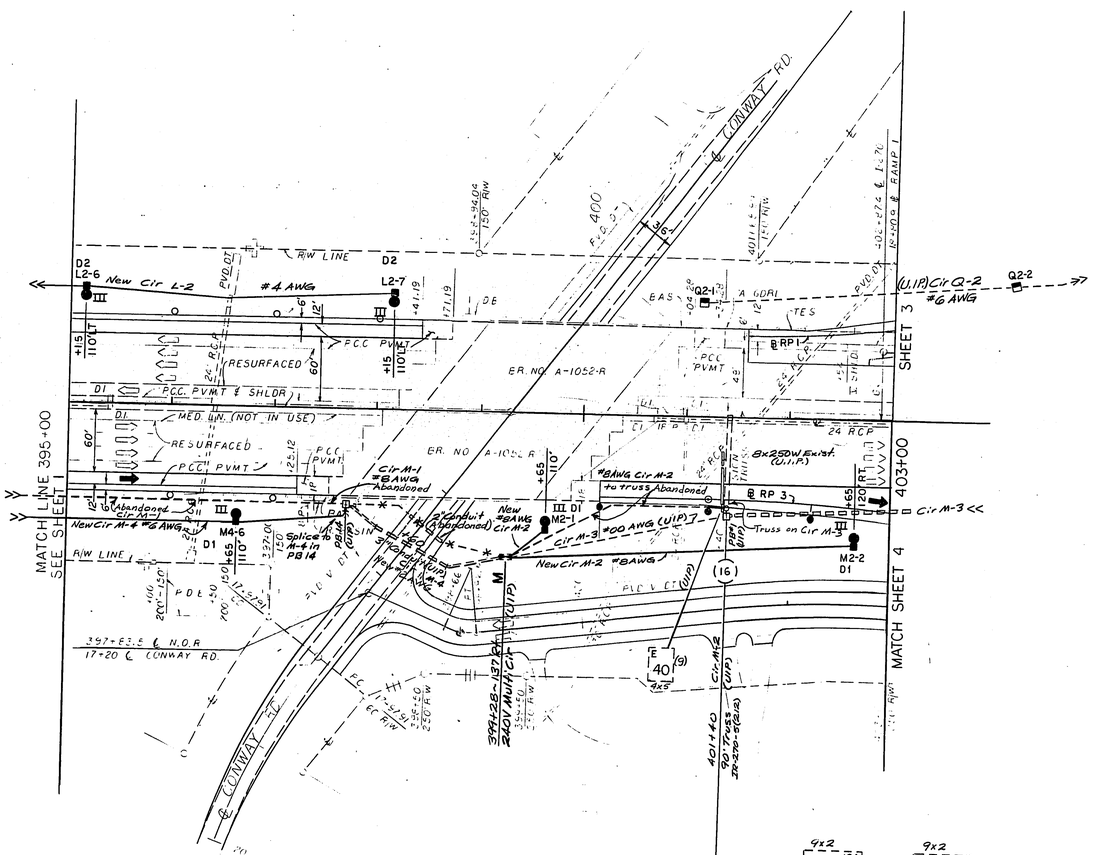
	Y ▲	W ●	EW ○
NB 270	0	2	20
SB	0	2	20

THIS SHEET (DELIN. SPACING = 100' UNLESS NOTED)
SCALE 150' 100' 50' 0 50'
FINAL PLANS
LIGHTS & SIGNS
NORTHERN END
I-270
SHEET 1 OF 30
Cir L-1, L-2, M-1, M-4
(5) (12) (14) (15) (16) (17)
3/11
NN

1544 24 TO 1

STATE MO JOB NO J6I 0647I- 270 SHEET NO 87
DIST NO 6 PROJECT NO IR-IRG-270-5(259) ROUTE
COUNTY ST. LOUIS I-270

FINAL PLANS



FINAL PLANS

LIGHTS & SIGNS
I-270
AT CONWAY RD.
SHEET 2 OF 30
Cir L-2, M-1, 2, 3, 4, Q-2

1544

24 TO 1

STATE MO.	JOB NO. J6I0647I- 270	SHEET NO 88
DIST. NO. 6	PROJECT NO. IR-IR6-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SCRIBED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

SOUTH 270 Tulsa | 270 NORTH Chicago

Use in Place, Uncover

Job No. 6-J-270-6647B

(61) 5#SB Rp 4 50' Truss (UIP)

Splice in Truss Column

3#SB

2#250W (UIP)

2"x60' (UIP)

Cir Q-1 New #2AWG

PB Q1A (UIP)

RAMP 4

12#15 Rp 195'RT Q (UIP)

#2AWG (UIP)

Cir Q-1

P.S. (UIP)

Splice Cir Q-2 in PB Q2A (UIP)

2"x100' (UIP)

12#60

#6AWG (UIP)

Cir Q-2

RAMP 1

Q2-1

Q2-2

(UIP)

403+00

MATCH SHEET 2

405

I-270

404+47 I-270

W4-3

4x4

G3

G4

52#48 Rp 4

New Cir Q-2

#6AWG

4x1.5 parallel #Rp1

Tower #1

Note: Triangle (▲) denotes location of handhole on each tower.

404+95

67'LT

410

MATCH LINE SEE SHEET 4

FLEX DELIN

	▲	●	○	
NB 270	0	5	0	UIP EXIST
WB 40	3	1	0	
RP 1	3	0	0	
4	5	12	0	
6.5	1	0		

THIS SHEET

RAMP 6 BR. NO. A-4650

W. B. L. RTE 40 BR. NO. A-4650

+690

690

+685

685

Abandon

Abandon

+50 F-F

Tower #3

472.5 F-F

+48.7 F-F

80'

60'

70' DELIN

33'24" Rt

4x1.5 parallel #Rp1

SEE SHEET 5 EXIST. ℄ RTE. 40

SCALE 150' 100' 50' 0 50'

LIGHTS & SIGNS
N.E. CORNER OF
I-270 AND RTE. 40-61
SHEET 3 OF 30

Cir Q-1,2 FINAL PLANS 4/81

NE

1544 24 TO 1

FINAL PLANS

STATE	JOB NO. J6I0647I- 270	SHEET NO. 89
MO.	PROJECT NO. IR-IR6-2705(254)	ROUTE I-270
DIST. NO. 6	COUNTY ST. LOUIS	

MATCH SHEET 2

403+00

405

I-270

410

415

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 6

Future Six 150W H.P.S. Underpass Luminaires

BR. NO. A-4657 (FUTURE)

3" Conduit (UIP)

Splice

Cir M-3 #00AWG in 3" Conduit

Abandoned

Abandoned

Cir M-3 New #00AWG

PB3M

6'x50 RP3 50' Truss Mnt

2x250W

CIR. M-3 NEW #00AWG

PB5M

Tower #2 axis parallel to Br. A-4657

PB4M

Not in Use

RAMP 3

RAMP 6

RAMP 8

RAMP 13

N. FORTY DR.

DELIN 75'

SB 270

WB 40

BY PASS

B(R)

EXIST. RTE. 40

BR. NO. A-4650

W.B.L. RTE 40

RET. WALL

FUTURE

G5

G6

405+24 I-270

E1-5b 12 (a) 4.5x2 EXIT (a) 6x5 E5-1

23

14x12.5 (a) EAST SOUTH 64 40 61 St. Louis

14x12.5 (b) WEST NORTH 64 40 61 Wentzville

Cover for Future Use

W4-3 4x4 24"x48" Sign

Tower #4 675 C.V-1 #4 AWG

674+82 69'RT

102°

200'

675

680

MATCH LINE SEE SHEET 10 673+45 FINAL PLANS

C.V-11-3, V-1

23 25 56 2 4

3/91

4I NW

FLEX DELIN

	▲	●	○
SB 270	0	0	0
WB 40	2	2	0
RP 2	2	7	0
3	6	16	0
6	0	0	0
8	4	6	0

THIS SHEET

SCALE 150' 100' 50' 0 50'

LIGHTS & SIGNS
N.W. CORNER OF
I-270 AND RTE 40-61
SHEET 4 OF 30

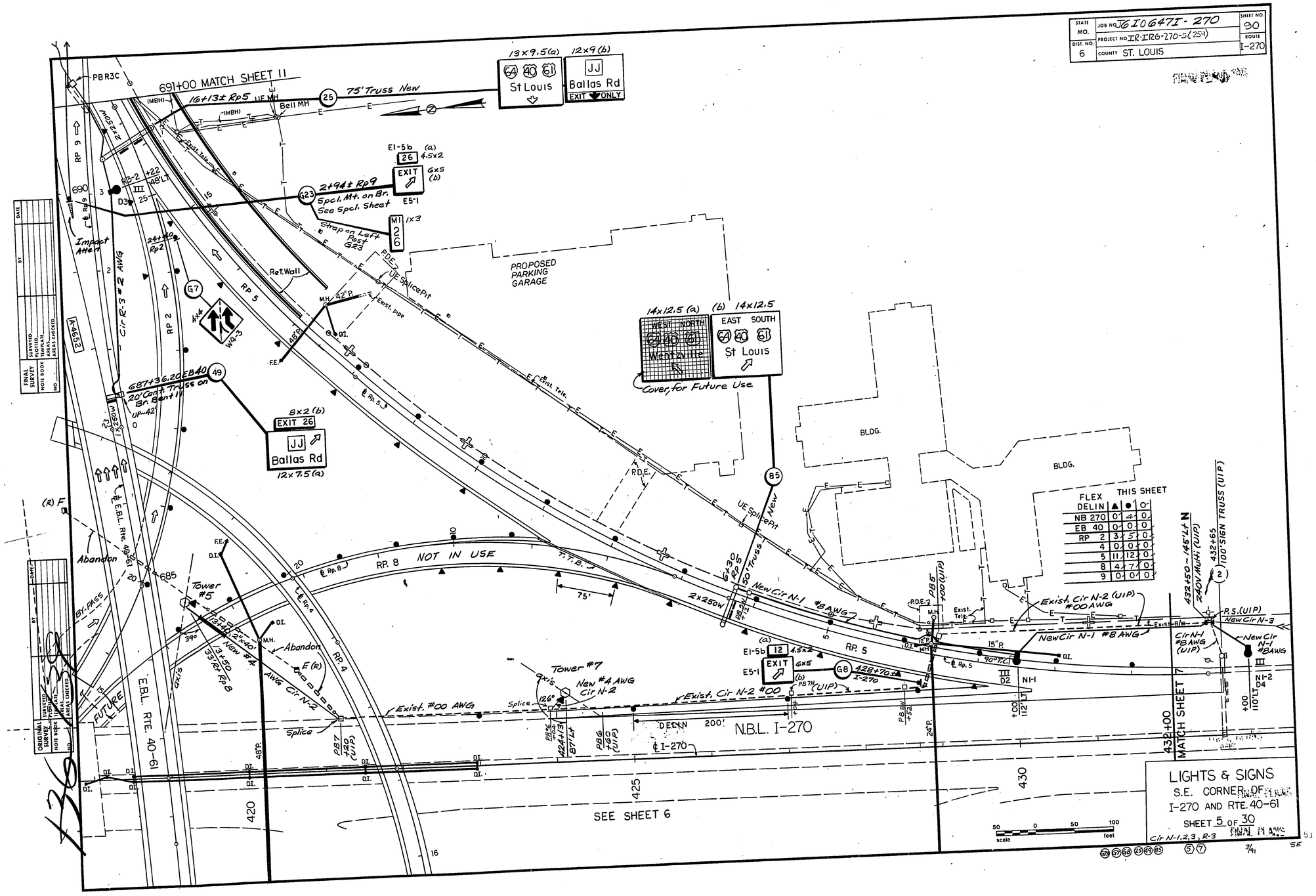
FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
NO	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
NO	AREAS CHECKED		

30

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I - 270	SHEET NO. 30
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(254)	ROUTE I-270
	COUNTY ST. LOUIS	



1544 24 TO 1

STATE	JOB NO. J6I0647I- 270	SHEET NO. 91
MO.	PROJECT NO. IR-IR6-270-5(254)	ROUTE I-270
DIST. NO. 6	COUNTY ST. LOUIS	

FINAL PLANS

MATCH LINE SEE SHEET 5

I-270

MATCH SHEET 8

RAMP 7

RAMP 6

RAMP 4

BR. NO. A-4653

BR. NO. A-4651

EXIT 26

EXIST. RTE. 40

E.B.L. RTE. 40

Ballas Rd 1/4 MILE

70' Tower G

Tower #4

MH

S. FORTY DR.

RET. WALL

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 10 673+45

Chicago

Memphis

Uncover Signs

FLEX DELIN	▲	●	○
SB 270	0	0	0
EB 40	2	2	0
RP 4	5	2	0
6	0	7	0
7	8	14	0
THIS SHEET			

150' 100' 50' 0 50'

FINAL PLANS

LIGHTS & SIGNS
S.W. CORNER OF
I-270 AND RTE. 40-61
SHEET 6 OF 30

Cir V-1,2,3

4/91 SW

1544 24 TO 1

FINAL PLANS

STATE	JOB NO. J6I0647I- 270	SHEET NO
MO.		32
DIST NO	PROJECT NO IR-IRG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

NO	REVISIONS	BY	DATE
	SURVEYED		
	PLOTTED		
	FINAL PLANS		
	HOT BOOK		
	AREAS CHECKED		

FINAL SURVEY

ORIGINAL SURVEY

MATCH LINE THIS SHEET 444+00

10x4' (U.I.P.) HOSPITAL NEXT RT 445+00

150' R/W

R/W LINE

450

455

D1 N3-4 — New Cir N-3 — #4 AWG — D1 N3-5 — D1 N3-6 — N3-7 D1

III — +00 — 110'

V SHLDR — P.C.C. PVMT — RESURFACED — P.C.C. PVMT & SHLDR

6' — 24' — 36' — 12' — 6'

D1 — A MED. BAR. — ℄ I-270

SEE SHEET 8

420.36 185' R/W

448.2 196.9 R/W

TAPER 450

DELIN 200

RTE. HH CLAYTON RD.

℄ 427+99.38 I-270

421+06.78 ℄ RTE. HH

BR. NO. A-1054

MAIR-IRG-I-270-5(163)

459+00 91' SIGN TRUSS (U.I.P.)

1X25DW(U.I.P.)

(U.I.P.) 9x2 12B — 9x2 12A (U.I.P.)

W N (40) (61) — E S (40) (61)

Wentz 3/4 — St L

E 0 — 12x12

14x12 (U.I.P.)

6

13.5x7 (a) Ladue Olive Page (U.I.P.) — 2 Units

12x14 (U.I.P.) — Wentz 1 MILE — St L 1 MI — 12x14 (U.I.P.)

9 — 485+50 (U.I.P.) 90'7" SIGN TRUSS

2x25DW(U.I.P.)

485

MAIR-IRG-I-270-5(163)

485+30 91' TRUSS (U.I.P.)

MATCH LINE THIS SHEET 444+00

MATCH SHEET 5

432+00

432+50~145'Lt N 240V Multi Cir (U.I.P.)

408.38 150' R/W

Cir N-2 — Cir N-1 — N1-2

1X25DW (U.I.P.)

432+65 SIGN TRUSS (U.I.P.) MAIR-IRG-I-270-5(163)

2 — 4x5 — 50 (U.I.P.)

435

R/W LINE

438+98 1X3 MT 2 (U.I.P.)

440

New Cir N-3 #4 AWG — D1 N3-1 — N3-2 — N3-3

2' F.B. PVD. DIT. — PAV'D DIT. — #4 AWG

V SHLDR — P.C.C. PVMT. — RESURFACED — P.C.C. PVMT & SHLDR

+00 — 115' LT — 110'

6' — 24' — 36' — 12'

+35 5'x4' BOX

A' TRFC. BAR. — ℄ I-270

SEE SHEET 8

(U.I.P.) 9x2 12B — 9x2 12A

W N (40) (61) — E S (40) (61)

Wentz 1/4 — St L

E 0 — 12x14 — 12x14 (U.I.P.)

FLEX

DELIN	▲	●	○
NB 270	01	4	22

THIS SHEET

SCALE 150' 100' 50' 0 50'

LIGHTS & SIGNS
SOUTH OF INTRCHG.
EAST SIDE I-270
SHEET 7 OF 30
FINAL PLANS

Cir N-1,2,3

(2)(6)(9)

1/40 SSE

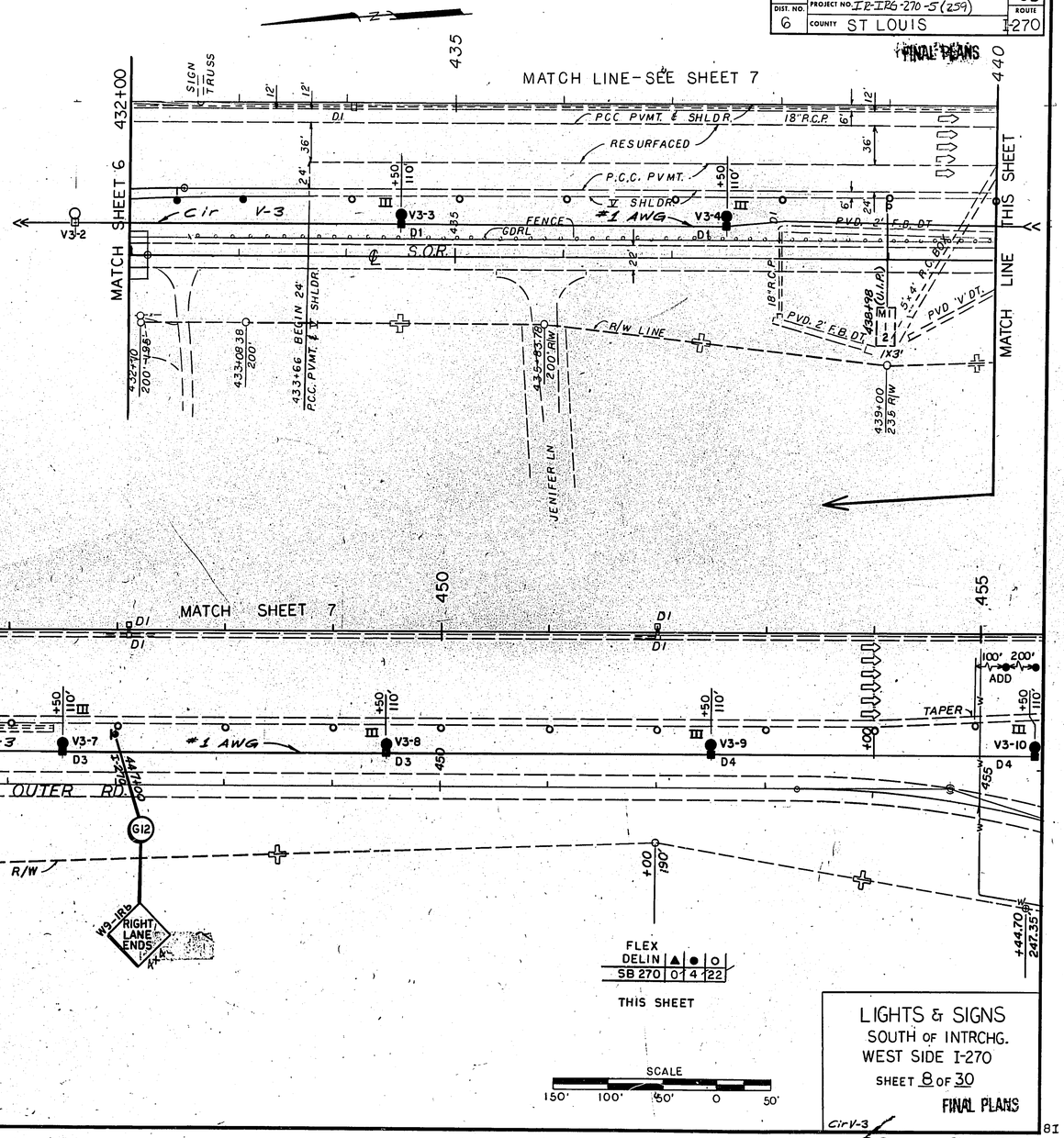
138

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 93
DIST. NO. 6	PROJECT NO. IR-IRB-270-5(259)	ROUTE I270
	COUNTY ST LOUIS	

FINAL PLANS

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED PLOTTED FIELD CHK. AREAS		
NO.	AREAS CHECKED		

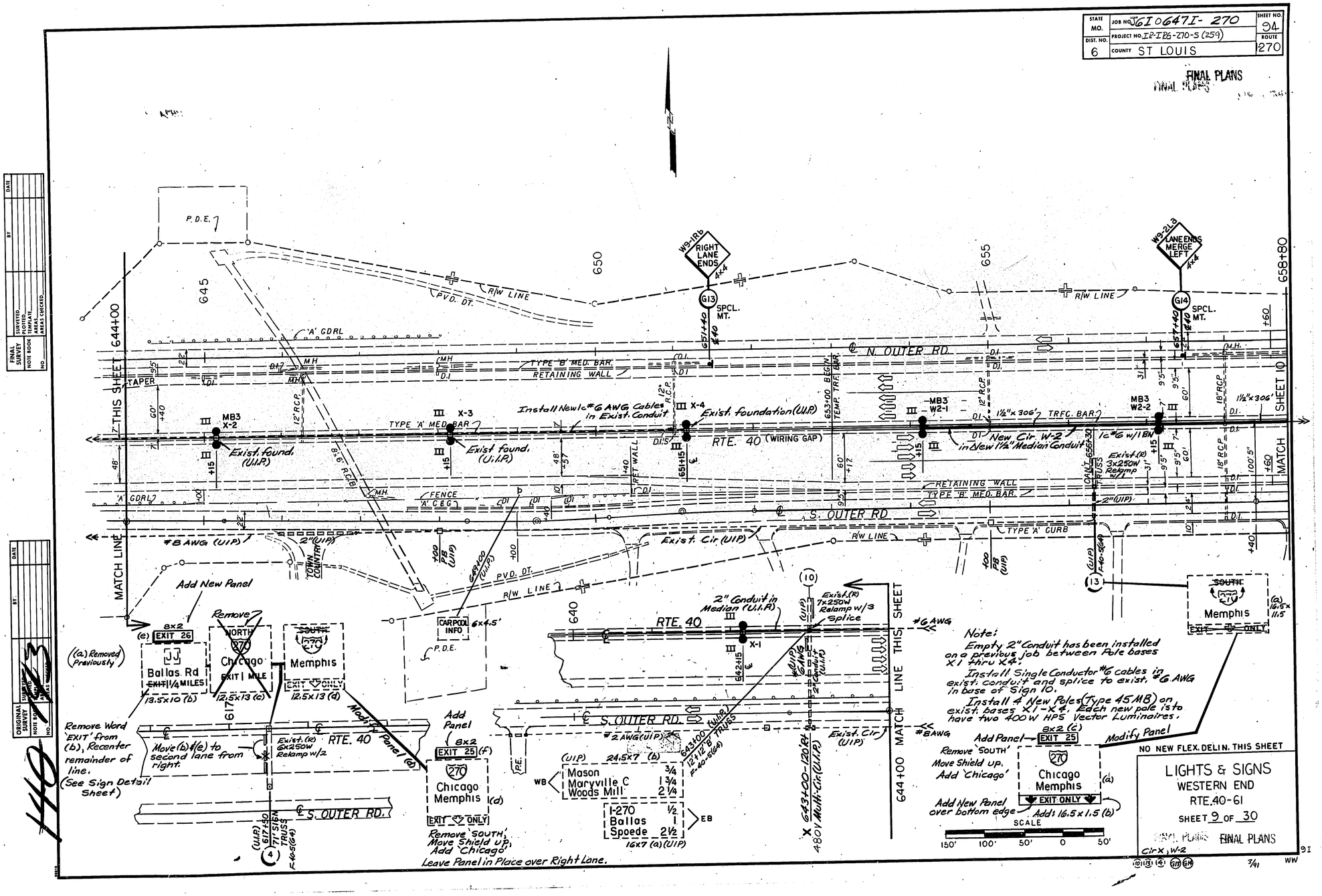


ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED PLOTTED FIELD CHK. AREAS		
NO.	AREAS CHECKED		

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 34
DIST. NO. 6	PROJECT NO. I-IP86-270-S (259)	ROUTE 270
	COUNTY ST LOUIS	

FINAL PLANS



1544 24 TO 1

STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 35
DIST. NO. 6	PROJECT NO. IR-IRG-270-5 (259)	ROUTE 1270
	COUNTY ST. LOUIS	

FINAL PLANS

Sign (44) +30.29

JUNCTION BOX DETAIL

664+26 JBW1A

12x12x12" Junction Box Cast into top of C.T.B.

48" Min. C to C.

Alternate type Sign Pedestal @ ℄ 40

Splice

½"ϕ Drain to face of C.T.B.

Concrete Traffic Barrier

1½" R.S. Median conduit

10" Non-R R.C.C.P.

Conduit must clear anchor bolts & reinforcing steel thru sign pedestal.

3" Cross-Road Conduit in Trench

Min. Radii: 1½"ϕ = 9"R, 2"ϕ = 12"R

Footing

MATCH SHEET 9

658+80

AMERSHAM DR.

RTE. 40

New Cir W-2 #6 AWG

MB3 W2-3

1½"x306'

Two Circuits in 3" Conduit. W-1 & W-2 (Single Conductors)

1½"x117'

2"x14'

JBW1A

1c #8 & 18N in 1½"x198' R.S. Conduit

#8 Cable-Conduit

Cir W-1 #8 AWG

2x250W

195'x3" New

Cir W-1 #8 AWG 240V Multi-Cir (U/P) 664+30.29 Proj. Thus New

Power #2 AWG (U/P)

P.S. (U/P)

2"x40'

30"

W1-1 MB3

W1-2 D1 (AT)

100' T.C.

W2-4 MB3

RET. WALL

N. FORTY DR.

RAMP 3

672+23 W.B.L.

W.B.L. RTE. 40

EXIST. ℄ RTE. 40

E.B.L. RTE. 40

671+80± E.B.L. 40

S. FORTY DR.

RAMP 7

MATCH LINE 673+45

SEE SHEET 4

SHEET 6

W4-3

G16

G15

4.5x2 (a)

25 EXIT

E1-5b

E5-1

GX5 (b)

13x7.5 (a)

8x2 (c) EXIT 25

64 40 61 St Louis

NORTH 270 SOUTH Chicago Memphis EXIT ONLY

22x8.5 (b)

Ho

G

FLEX DELIN	▲	●	○
RP 3	2	10	0
WB 40	7	1	0
EB	5	1	0
RP 7	3	0	0

THIS SHEET

SCALE 150' 100' 50' 0 50'

LIGHTS & SIGNS
WEST EDGE INTRCHG.
RTE. 40-61
SHEET 10 OF 30

FINAL PLANS

Cir W-1,2

44 G15 G16

4/91

FINAL SURVEY | ORIGINAL SURVEY | SURVEYED | COMPUTED | TEMPLATE | AREAS | AREAS CHECKED | NOTE BOOK | NO. | BY | DATE

1544 24 TO 1

STATE MO.	JOB NO. JGI0647I-270	SHEET NO. 36
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SUBMITTED	DATE
	APPROVED	BY
	NOTE BOOK	TRACED
	NO.	AREAS CHECKED

MATCH LINES 691+00 SHEET 3

SHEET 5

Mi 62 1x3

E1-5b 25 4.5x2 EXIT

E5-1 6x5

G17

13x7.5 (a) 64 40 61 Wentzville

8x2 (c) EXIT 25 SOUTH 270 NORTH Tulsa | Chicago EXIT ONLY

19x8.5 (b)

41

695 700 705

691+47 WBL

RP 1

80'

(This Proj.) New R/W

Exist. R/W

Ret. Wall

6@2'=12'± 3 WBL 40

NEW 695+80 ℄ 40 80° Moss

Exist. Water

8"W

6"W

Exist. Water

3+13

Exist. Tele.

Exist. Water

Exist. R/W

℄ Rp. 1

Ret. Wall

700+28.83 ℄ W.B.L. = 127+87.19 Const. ℄ Rte. JJ

F.H.

℄ W.B.L.

20'

60'

+20 ℄ 11 IRT

78°

2x250w

1¼"x 46' R.S. Conduit

MB3

MB3

R3-3 D1

R3-4

R3-5

1¼"x 246' R.S. Conduit Two 1c #2 #18 N.

Cable-Conduit

New Cir R-3 #2 AWG

(GAP)

℄ E.B.L.

101'

A-4652

Ret. Wall

RP. 2

℄ Rp. 2

Exist. R/W

126+65.19 Const. ℄ Rte. JJ= 35+59.88 ℄ Ramp 2

PB R3C down ~30'

Conduit System on Bridge A-4654

down ~7'

PBR3B

Splice

New Cir. R-3 #2 AWG

Splice to Exist.

(U.I.P.) PBR3A

RP. 9

Ret. Wall

WRONG WAY

6x5

11+83 RP 9

℄ Rp. 9

(U.I.P.) Cir R-3 #2 AWG

R3-1 (U.I.P.)

Exist. Tele.

WRONG WAY

124+78.95 Const. ℄ Rte. JJ= 6+01.06 ℄ Ramp 10

Temp. Const. Esmt.

124+28.11 Const. ℄ Rte. JJ= 0+00 ℄ Ramp 11

UE MH

124+94.36 Const. ℄ Rte. JJ= 13+33.97 ℄ Ramp 10

P.D.E.

Exist. Sewer Esmt.

Note: 123+00 Entire Cir. R-1 and Cir. R-2 (U.I.P.)

FLEX

DELIN	▲	●	○	
RP 1	3	0	0	UIP EXIST
RP 2	3	6	0	THIS
WB 40	3	1	0	SHEET
EB 40	0	0	0	
RP 9	5	2	0	
RPS 10, 11	0	0	0	UIP

(U/P) S S1-1

Service Rd. ℄

Exist. R/W

New R/W

(U/P) PBS3A

S3-1

Cir S-3 (U/P)

Exist. Water

Perm. Esmt.

S3-2

Cir. S-2 (U/P)

131+65 Exist. ℄ Rte. JJ= 0+00 ℄ Service Road

Note: Entire 'S' Circuit (U/P)

Job No. 6-U-40-402B

PBS2B (U/P)

Perm. Esmt. New R/W

127+48.34 Exist. ℄ Rte. JJ= 700+29.28 Exist. ℄ Rte. 40

(U/P) PBS2C

704+99.21 Bk. = 24+98.70 Ahd. (P.C.) EQ.

U3 U6 U2 U5 U1 U4

S2-2 ℄ RTE. 40-61

NEW Cir S-2 #4 AWG

S2-1

(U/P) PBS2D

2x250w (U/P)

1x250w (U/P)

700+28.31 ℄ E.B.L. = 127+09.19 Const. ℄ Rte. JJ

4x5 E 25 (U.I.P.)

(U/P) 38+00 Rt 2 30' Cant Truss

(410)

56+34.28 ℄ Ramp 2 = 0+00 ℄ Ramp 10

NEW Cir S-2 #4 AWG

S2-3 (U/P)

Job No. 6-E-270-647B

(U/P) 39+65 Rt 2

2x10 (U/P)

40'

26 4.5x2 EXIT 6x5

EXIT 26 8x2

JJ 12x9

Ballas Rd E O

R1-2

Exist. R/W

℄ Rp. 10

RP. 10

(Abandoned)

℄ Rp. 11

Exist. Sewer Esmt. RP. 11

6'x4' Box

New R/W

M.H. #3

M.H. #2

6' F.B.D.

10' Util. Esmt. MSD/St. Louis

Cir R-1

21'x60'

R-1 (U.I.P.)

(U.I.P.)

Cir R-3

FINAL PLANS

LIGHTS & SIGNS
691+00 TO 706+00
RTE. JJ AND RTE. 40-61
SHEET 11 OF 30

50 0 50 100 scale feet

41 Mo 64

3/11 JJ

1544 24 TO 1

STATE MO	JOB NO. J6I0647I- 270	SHEET NO. 37
DIST NO 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

(a) 13x7.5'
(b) 8x2'
(c) 19x8.5'

EXIT 25

64 40 61 Wentzville

SOUTH 270 NORTH

Tulsa | Chicago

EXIT ONLY

Uncover Sign (b) & EXIT ONLY on Sign (c)

SHEET 2

MATCH LINE 706+00

MATCH LINE 720+00 SHEET

710

715

RP. 12

RP. 13

RP. 11

Rp. 2

Perm. Esmt.

New R/W

℄ Rp. 12

℄ Rp. 13

New R/W

SEE JOB NO. 6-U-40-402B FOR OTHER DELINEATORS ON RP. 12, 13. (UIP)

W4-1R(b) 4x4

G19 713+80 ℄40

(a) 4.5x2'
(b) 6x5'
26
EXIT

(UIP) 718+20

Exist. P.D.E.

Exist. 48" RCP

Exist. 10' Sewer Esmt.

Note: Slot Drain in median (1'-1" ℄) (702+89 to 716+96 ± ℄40)

2x250W (UIP)

(WIRING GAP)

(UIP) PI-1

+90

℄ RTE. 40

PI-2 (UIP)

1½"x306'

1½"x326'

1½"x276'

MH

+16 +22 +10

(UIP) PI-3

PI-4 +80

9'x5' Box

(UIP)

Cir P-1 (UIP) 1½" Conduit with #6 AWG

#4 AWG

Cir S-2 (UIP)

1½" Conduit under C.T.B. (296' to S2-1)

S2-4 (UIP)

1½"x118'

TAPER

10" V.C.P.

8" R.C.P.

Exist. Sewer Esmt.

TOP BERM

M.H. #6

M.H. #7

M.H. #8

M.H. #9

Exist. Detention Basin

Detention Basin

P.D.E.

M.H.

10' Util. Esmt. MSD/St. Louis

M.H. #5

M.H. #4

10" V.C.P. (U.I.P.)

Exist. Sewer Esmt.

(Mo. Serv. U.I.P.)

43+74 ℄ Rp. 2

G18 Rp. 11

W4-1R(b) 4x4

Exist. 48" RCP

10" Exist. Sewer Esmt.

48" V.C.P.

M.H. (U.I.P.)

Exist. P.D.E.

FINAL PLANS

FLEX

DELIN	▲	●	○
RP 11	0	0	0
12	0	0	0
13	0	0	0
40	0	0	0

UIP ALL ON THIS SHEET

50 0 50 100 scale feet

LIGHTS & SIGNS
706+00 TO 720+00
ROUTE 40-61
SHEET 12 OF 30

3/11 E 12-13

12I

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK	AREA	
NO.		AREA CHECKED	

ORIGINAL SURVEY	SURVEYED	BY	DATE
	NOTE BOOK		
NO.		AREA CHECKED	

1544

24 TO 1

STATE MO	JOB NO J6I0647I-270	SHEET NO 98
DIST NO 6	PROJECT NO IR-IRG-270-5(259)	ROUTE
	COUNTY ST LOUIS	I-270

FINAL PLANS

EXIT 25

EXIT 26

64 40 61 Wentzville

270 Chicago Tulsa EXIT ONLY

JJ Ballas Rd

(a) 13x7.5'

(b) 8x2'

(c) 12.5x11

(d) 8x2'

(e) 12x7.5'

(f) 4x5'

Uncover Sign 413 (b) & EXIT ONLY on Sign (c)

EXIT 40

EXIT 26 (a) 8x2' (b) 12x10'

JJ Ballas Rd 1/4 MILE

MATCH LINE 732+00 THIS SHEET

MATCH LINE 732+00 THIS SHEET

RTE. 40

RTE 40

FINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — AREAS — AREAS CHECKED — BY — DATE — NO

ORIGINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — AREAS — AREAS CHECKED — BY — DATE — NO

FLEX

DELIN	▲	●	○
EB 40	0	0	0
WB 40	0	0	0

UIP ALL ON THIS SHEET

SCALE 150' 100' 50' 0 50'

LIGHTS & SIGNS
EASTERN END
RTE. 40-61
SHEET 13 OF 30
FINAL PLANS

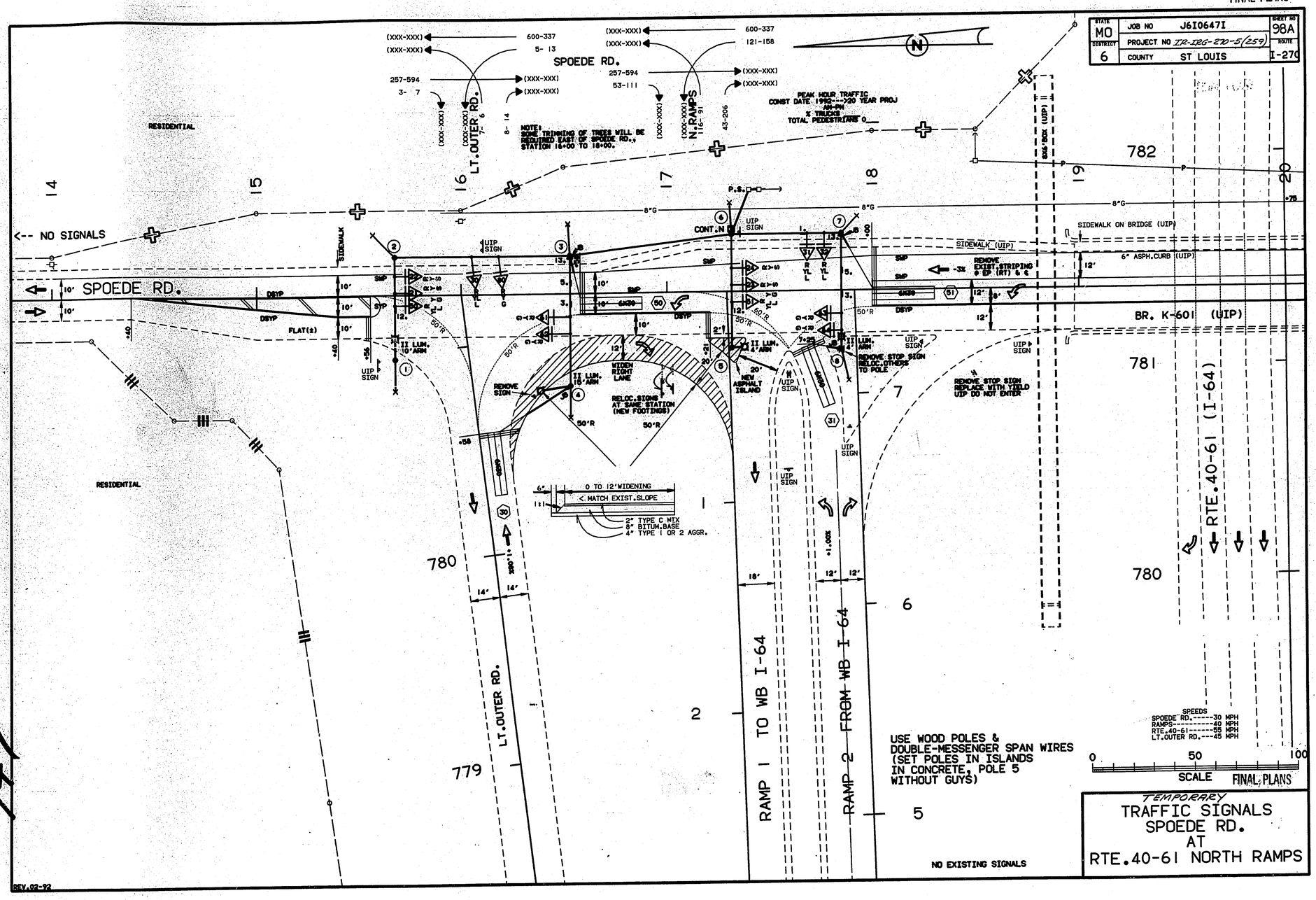
131

3/91 EE

1544 24 TO 1

FINAL PLANS

STATE	JOB NO	J6I0647I	SHEET NO
MO			98A
DISTRICT	PROJECT NO	IR-IBG-270-5(259)	ROUTE
6	COUNTY	ST LOUIS	I-270



TEMPORARY

TRAFFIC SIGNALS SPOEDE RD. AT RTE.40-61 NORTH RAMPS

REV.02-92

145

1544

STATE	JOB NO	SHEET NO
MO	J6I0647I	98B
DISTRICT 6	PROJECT NO IR-IEG-270-5(259)	ROUTE I-270
	COUNTY ST LOUIS	

FINAL PLANS

DESIGN HOURLY VOLUMES
CONST DATE 1992-->20 YEAR PROJ
AM-PM
% TRUCKS
TOTAL PEDESTRIANS 0

SPOEDE RD.

(XXX-XXX) 321-286 (XXX-XXX) 321-286
(XXX-XXX) 187-121 (XXX-XXX) 3- 4
203-503 (XXX-XXX) 203-503 (XXX-XXX)
145-159 (XXX-XXX) 4- 9 (XXX-XXX)

S. RAMPS (XXX-XXX) 168- 57, 168-156
S. OUTER RD. (XXX-XXX) 4- 7, 6- 5

NOTE:
SOME TRIMMING OF TREES WILL BE REQUIRED EAST OF SPOEDE RD., STATION 23+00 TO 25+00.

RESIDENTIAL

782 781 780 779

20 21 22 23 24 25 26

P.E.

PAVED DITCH (UIP)
P.S.
SIDEWALK ON BRIDGE (UIP)
6" ASPH.CURB (UIP)
BR. K-601 (UIP)
CONT.S
UIP SIGN
8"G
SMP
DSYP
60'R
50'R
20'R
II LUM. 4' ARM
III LUM. 15' ARM
RELOC. SIGN TO 23+29 (NEW FOOTINGS)
REMOVE STOP SIGN RELOC. OTHERS TO POLE
REPLACE STOP SIGN WITH YIELD UIP DO NOT ENTER
REMOVE SIGN
SIDEWALK (UIP)
-6%
SPOEDE RD.
NEW 50' TAPER (PAINT)
NEXT SIGNALS 700'--> (CLAYTON RD., STL.CO.)

RTE.40-61 (I-64)

RAMP 3 TO EB I-64
RAMP 4 FROM EB I-64
RT. OUTER RD.

USE WOOD POLES & DOUBLE-MESSENGER SPAN WIRES (SET POLES IN ISLANDS IN CONCRETE, POLE 12 WITHOUT GUYS)

NO EXISTING SIGNALS

SPEEDS
SPOEDE RD.-----30
RAMPS-----40
RTE.40-61-----55

0 50 100
SCALE FINAL PLANS

TEMPORARY
TRAFFIC SIGNALS
SPOEDE RD. FINAL PLANS
AT
RTE.40-61 SOUTH RAMPS

150

FINAL PLANS

REV JAN 7, 1991

STATE	JOB NO.	SHEET NO.
MO	J6I0647I	98C
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST.LOUIS	I-270

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			ACTUATED	SOLID STATE PRE-TIMED			ON-OFF SWITCH*		COORDINATION UNIT*			TONE UNIT*		TIME CLOCK*
APPROACH	STATION	OFFSET	NEMA KEYBORD ENTRY ITEM 902-42.80	TYPE S-M	S-S	S-N	TYPE I	II	MASTER	LOCAL	TIME BASE	TRANS-MITTER	RECEIVER	
SPOEDE RD.	17+31	27'LT	1								1			
SPOEDE RD.	21+97	26'LT	1								1			

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				SERVICE POLE	
APPROACH	STATION	OFFSET	DRAWING 902.15	SPCL DRAWING	SIDE OF CONTROLLER LIGHTING BREAKER	CONTROLLER AUXILIARY BREAKER	CONT & SIGNAL LAMPS	P.S. PEDESTAL MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY U.E.
SPOEDE RD.	17+40	48'LT	Type --	1 (TYPE2)	20 Amps	20 Amps	30 Amps	40 Amps	CL. - Ft. -	17+45,48LT
SPOEDE RD.	21+55	41'LT	Type --	1 (TYPE2)	20 Amps	20 Amps	30 Amps	40 Amps	CL. - Ft. -	21+50,41LT

NEMA 3,4&5, 6X12X4"±, MOUNT ON SIDE OF WOOD POLE 24"± ABOVE GROUND, FOR SPLICING LOOP LEADS, COST INCLUDED IN SPAN WIRE ASSEMBLY.

POST

Columns (not all shown when empty): LOCATION (POST NUMBER, PULL BOX NUMBER, DETECTOR NUMBER, APPROACH, STATION, OFFSET); BASES (A 5, 8, 8 MOD, 10; B 5, 8, 10; C); CUBIC YARDS OF CONCRETE; JUNCTION BOX*; DETECTOR (PUSH BUTTON, MAGNETIC, INDUCTION LOOP CHAN. 1, 2, CALL UNIT*, TIME DELAY UNIT*); POST TOP MOUNT LENGTH 7, 10; TYPE C & CL (ARM LENGTH A; SIGNAL SPACING B C D; SIGN SPACING B C D); TYPE B & BL (ARM LENGTH E K; LEFT ARM E SIGNAL F G H, SIGN F G H; RIGHT ARM K SIGNAL L M N, SIGN L M N); LUMINAIRE BRACKET ARM* (FEET) 4, 6, 8, 10, 12, 15; WOOD POLE; SPAN WIRE LENGTH, FT.; COMMISSION FURNISHED SIGNS (CODE SIGN NUMBER FROM STANDARD PLAN 902.80); POST NO.

POST NUMBER	PULL BOX NUMBER	DETECTOR NUMBER	APPROACH	STATION	OFFSET	JUNCTION BOX*	INDUCTION LOOP CHAN. 1	LUM. ARM 4	LUM. ARM 10	LUM. ARM 15	WOOD POLE	SPAN WIRE LENGTH, FT.	SIGN 3.	SIGN 5.	SIGN 12.	SIGN 13.	SIGN 1.	POST NO.
1			SPOEDE RD.	15+68	31'RT				1		1	35			1			1
2			SPOEDE RD.	15+68	18'LT						1	35						2
3			SPOEDE RD.	16+53	18'LT	1					1	35	1	1		1		3
4			SPOEDE RD.	16+53	44'RT	1				1	1	35						4
5			SPOEDE RD.	17+31	26'RT			1			1	35			1			5
6			SPOEDE RD.	17+31	27'LT						1	35						6
7			SPOEDE RD.	17+85	27'LT	1					1	35	1	1		1	1	7
8			SPOEDE RD.	17+85	28'RT	1		1			1	35						8
9			SPOEDE RD.	21+97	27'RT			1			1	35			1			9
10			SPOEDE RD.	21+97	26'LT						1	35						10
11			SPOEDE RD.	22+68	26'LT	1					1	35	1	2		1		11
12			SPOEDE RD.	22+68	27'RT	1		1			1	35						12
13			SPOEDE RD.	23+42	26'LT	1				1	1	35						13
14			SPOEDE RD.	23+42	30'RT						1	35			1			14
15			SPOEDE RD.	24+32	26'LT						1	35				1		15
16			SPOEDE RD.	24+32	34'RT	1				1	1	35	1					16
		30	N.(LT.) OUTER RD.	780+50	RT		1											
		31	RAMP 2	7+25	LT		1											
		50	SPOEDE RD.	16+58	RT		1											
		51	SPOEDE RD.	18+00	℄		1											
		33	RAMP 4	13+32	LT		1											
		52	SPOEDE RD.	22+80	RT		1											
		81	S.(RT.) OUTER RD.	781+55	RT		1											
		40	SPOEDE RD.	23+59±	LT(@P.E.)		1											
					TOTAL	8	8	4	1	3	16	X	4	4	4	4	1	X

WHEN 2 CHANNEL DETECTORS ARE SPECIFIED, DIVIDE NUMBER BY 2 FOR ACTUAL QUANTITY.

POLES 5, 8, 9, & 12 ARE TO BE CLASS II WOOD POLES, EMBEDDED IN CONCRETE.

SIGNAL HEADS

Columns (not all shown when empty): POST-POST SPAN WIRE; FACE NUMBER; POST NO.; LUMINAIRE 150W SODIUM; INDICATIONS* 12" LENS CONVENTIONAL (R Y G S L Rt YL YRt W DW); 12" LENS OPTICAL LIMITING (R Y G S L Rt YL YRt); VISORS* 12" LENS STD 9.5, TUN 12; LOUVERS* (A B C D E F); BACKPLATE* LENSES (1 2 3 4 5); BRACKET* TYPE (I II III IV); ONE-FACE SECTION (1- T S C B; 2- T S; 3- T S C B; 4- S C B; 5- S C B)

POST-POST SPAN WIRE	FACE NUMBER	POST NO.	LUMINAIRE 150W SODIUM	R	Y	G	S	L	YL	VISORS TUN 12	LENSES 3	LENSES 5	BRACKET TYPE I	3-C	5-C
1-2	21	1	1	1	1		1			3	1		1	1	
1-2	22			1	1		1			3	1		1	1	
5-6	23			1	1		1			3	1		1	1	
5-6	24			1	1		1			3	1		1	1	
2-3	30			1				1	1	3	1		1	1	
6-7	31			1				1	1	3	1		1	1	
6-7	32			1				1	1	3	1		1	1	
1-2	50			1	1	1		1	1	5		1	1		1
5-6	51	5	1	1	1	1		1	1	5		1	1		1
3-4	61	4	1	1	1	1				3	1		1	1	
3-4	62			1	1	1				3	1		1	1	
7-8	63	8	1	1	1	1				3	1		1	1	
7-8	64			1	1	1				3	1		1	1	
2-3	80			1	1	1				3	1		1	1	
9-10	25	9	1	1	1		1			3	1		1	1	
9-10	26			1	1		1			3	1		1	1	
13-14	27			1	1	1				3	1		1	1	
13-14	28			1	1	1				3	1		1	1	
10-11	33			1				1	1	3	1		1	1	
10-11	34			1				1	1	3	1		1	1	
14-16	40	14	1	1	1	1				3	1		1	1	
14-16	41			1	1	1				3	1		1	1	
9-10	52			1	1	1		1	1	5		1	1		1
13-14	53			1	1	1				3	1		1	1	
11-12	65	12	1	1	1	1				3	1		1	1	
11-12	66			1	1	1				3	1		1	1	
15-16	67	16	1	1	1	1				3	1		1	1	
15-16	68			1	1	1				3	1		1	1	
13-15	81			1	1	1				3	1		1	1	
13-15	82			1	1	1				3	1		1	1	
TOTAL			8							TOTALS	CONVENTIONAL			27	3

SPAN WIRE ASSEMBLY

POST-POST SPAN WIRE	MESSENGER CABLE C TO C SPAN	+5%	TOTAL LIN.FT.
1-2	49	3	52
2-3	84	4	88
3-4	62	3	65
3-6	79	4	83
5-6	54	3	57
6-7	53	3	56
7-8	55	3	58
9-10	53	3	56
10-11	71	4	75
11-12	53	3	56
11-13	74	4	78
13-14	56	3	59
13-15	90	5	95
15-16	60	3	63
14-16	90	5	95
			1035

ADDITIONAL ITEMS FOR THIS INSTALLATION

ITEM NO.	DESCRIPTION	ADD QUANTITY	UNIT
202-20.10	REMOVAL OF IMPROVEMENTS (5 SIGNS, 51 S.F.TOTAL) Cont 501.10	1	LUMP SUM
301-10.11	ASPH.CEM.(BIT.BASE) (FOR WIDENING)	SEE STAGE I SHEET 9	TON
301.20.00	MIN.AGGR.(BIT.BASE) "	" " "	TON
304-00.43	TYPE 1 OR 2 AGGR.BASE (4") "	179.8	S.Y.
403-10.11	ASPH.CEM.(TYPE C MIX) "	SEE STAGE I SHEET 9	TON
403-10.26	MIN.AGGR.(TYPE C MIX) "	" "	TON
616-10.10	RELOCATED SIGNS (5 SIGNS)	—	SQ.FT.
620-60.00	4" SOLID WHITE PAINT STRIPE (INCLUDES 24"STOP LINES)	SEE STAGE I 2B SHEET 4	100 FT.
620-60.01	4" SOLID YELLOW PAINT STRIPE	" "	100 FT.
620-70.00	PAVEMENT STRIPE REMOVAL (PAINT)	" " "	100 FT.
903-10.10	CONC.FOOTINGS, EMBEDDED (REPLACE FOR RELOC. SIGNS)	1.3	C.Y.
903-50.05	TYPE SHR123 SIGN (TWO 4'YIELD)	14.0	SQ.FT.
	RESTORATION OF SITE Cont 501.12	1	L.S.

LEGEND
B-MAST ARM MOUNT
C-SPANWIRE MOUNT
T-TOP MOUNT
S-SIDE MOUNT

RTE. 40-61
AT
SPOEDE RD.
INTERSECTION

FINAL PLANS

D-37A

151

1544 24 TO 1

FINAL PLANS

REV SEP 7, 89

STATE	JOB NO. J6I0647I	SHEET NO.
MO		98D
DIST NO.	PROJECT NO. IR-IRS-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCH 1-1/4	TRENCH 1-1/2	TRENCH 2	TRENCH 2-1/2	TRENCH 3	TRENCH 3-1/2	TRENCH 4	ON POLE 501.26 CONT 1" 1-1/4	ON POLE 501.26 CONT 1" 2	ON POLE 501.26 CONT 1"	ON POLE 501.27 CONT 2	ON POLE 501.27 CONT 2-1/2	ON POLE 501.27 CONT 3	ON POLE 501.27 CONT 3-1/2	ON POLE 501.27 CONT 4	ON BRIDGE		REMARKS
Ø	PS	5			13															
PS	6	23			39															
3	50	21	13							25										NORTH RAMPS
4	30	41	29							25										
7	61	30	12							25										
8	51	14	11							25										
																	23			
SPOEDE	17431	27'11"															23			
SPOEDE	21497	26'11"																		
TOTALS			124		126					200							46			

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER #8	CONTROL 2c #12	CONTROL 3c #12	CONTROL 5c #12	CONTROL 7c #12	CONTROL 12c #12	DETECTOR 1c #14	DETECTOR LEAD-IN CABLE	REMARKS
Ø	PS	5	3X50								POWER
PS	6	23	3X40								POWER
6	1	212		270							
6	50	186					230				
6	21 22	180					220				
6	30 80	127					160				
6	50	79							320	140	
6	61 62	116					150				
6	4	141		200							NORTH
6	30	141							360	210	RAMPS
6	23 24	24					50				
6	61	32					60				
6	5	54		90							
6	31 32	45					80				
6	51	53							340	110	
6	63 64	99					130				
6	8	108		150							
6	31	108							310	170	
Ø	PS	5	3X50								POWER
PS	10	45	3X60								POWER
10	26 26	21					50				
10	52	31					60				
10	9	53		90							
10	33 34	64					100				
10	52	71							340	130	
10	65 66	116					150				
10	12	124		170							SOUTH
10	33	124							300	200	RAMPS
10	40	145							110	220	
10	27 28	166					210				
10	53	176					220				
10	14	201		270							
10	40 41	222					270				
10	61 62	221					270				
10	67 68	279					330				
10	18	295		370							
10	81	295							330	380	
TOTALS			600	1610			2740		2410	1560	

RTE. 40-61 AT SPOEDE RD.

INTERSECTION

D-37B

FINAL PLANS

153

1544 24 TO 1

FINAL PLANS

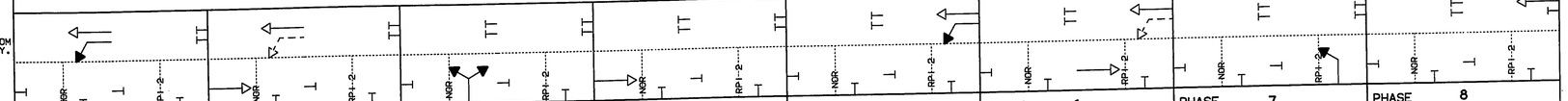
REV SEP 28, 1991

STATE	JOB NO. J6I0647I	SHEET NO.
MO	PROJECT NO. IR-IRG-270-5(659)	98E
DIST NO. 6	COUNTY ST LOUIS	ROUTE I-270

TRAFFIC PHASING AND COLOR SEQUENCE

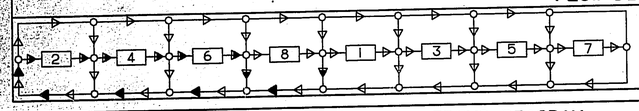
NOTE: RED INDICATIONS OMITTED FROM CLEARANCE CHART FOR CLARITY.

SEE WIRING DIAGRAM FOR FACE LOCATIONS



CONT. NO. NORTH			PHASE 1									PHASE 2									PHASE 3									PHASE 4									PHASE 5									PHASE 6									PHASE 7									PHASE 8									
APPROACH	PHASE	FACE NO.	R/W	CLEAR TO PHASE 2	3	4	5	6	7	8		R/W	CLEAR TO PHASE 1		3	4	5	6	7	8	R/W	CLEAR TO PHASE 1	2		4	5	6	7	8	R/W	CLEAR TO PHASE 1	2	3		5	6	7	8	R/W	CLEAR TO PHASE 1	2	3	4		6	7	8	R/W	CLEAR TO PHASE 1	2	3	4	5		7	8	R/W	CLEAR TO PHASE 1	2	3	4	5	6		8	FACE NO.
E BOUND		30	R									R									L	YL	YL		YL	YL	YL	YL	YL	R								R								R								R								R								30
N.O.R.		80	R									R									G	Y	Y		Y	Y	Y	Y	Y	R								R								R								R								R								80
40 RP.2		31,32	R									R									R									R								R								R								L	YL	YL	YL	YL	YL	YL	YL	R								31,32
N BOUND		50	L	YL	YL	YL	YL	YL	YL	YL	YL	G	G		Y	Y	Y	Y	Y	Y	R									R								R								R								R								R								50
@ N.O.R.		21,22	S	S	Y	Y	Y	Y	Y	Y	Y	S	S		Y	Y	Y	Y	Y	Y	R									R								R								R								R								R								21,22
SPOEDE RD.		51	R									R									R									R								R								R								R								R								51
@ RP.1,2		23,24	R									R									R									R								R								L	YL	YL	YL	YL	YL	YL	YL	S	Y	Y	Y	Y	S	S	Y	R								23,24
S BOUND																																																																									
@ N.O.R.		61,62	R									R									R									G	Y	Y	Y		Y	Y	Y	R								R								R								R								61,62
SPOEDE RD.																																																																					
@ RP.1,2		63,64	R									R									R									R								R								R								G	Y	Y	Y	Y	Y	Y	Y	R								63,64

FLOW DIAGRAM



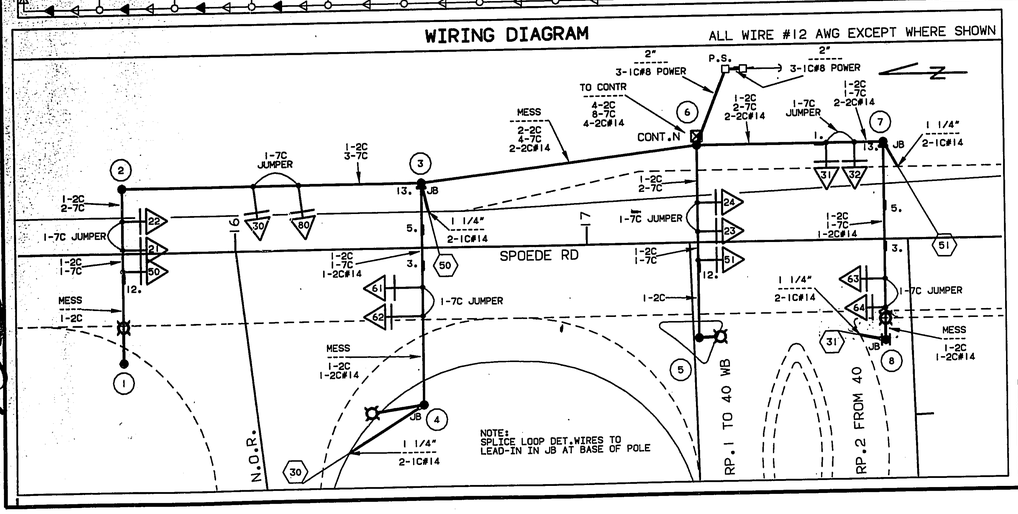
PHASE ON RECALL WITH EQUAL TIME SETTINGS.

SKIP PHASE.

COMBINED RECALL & SKIP PHASE.

WIRING DIAGRAM

ALL WIRE #12 AWG EXCEPT WHERE SHOWN



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIMING TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

FLASHING OPERATION	
RAMP 2 & N.O.R.	FR
SPOEDE RD.	FY

CONTROLLER TYPE 8Ø, SEMI

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YR t — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY -YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING YELLOW

TRAFFIC SIGNAL CONTROL OPERATION

SPOEDE RD.

INTERSECTION OF

RTE.40 NORTH RAMPS

WITH

D-38

FINAL PLANS

1544 24 TO 1

FINAL PLANS

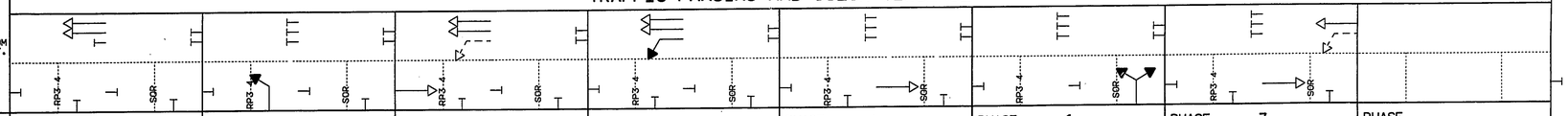
REV SEP 28, 1991

STATE	JOB NO. J6I0647I	SHEET NO.
MO		98F
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST LOUIS	I-270

TRAFFIC PHASING AND COLOR SEQUENCE

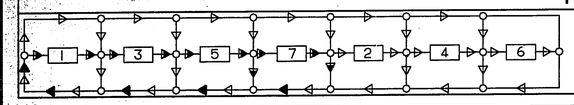
NOTE:
RED INDICATIONS OMITTED FROM CLEARANCE CHART FOR CLARITY.

SEE WIRING DIAGRAM FOR FACE LOCATIONS



CONT. NO. SOUTH			PHASE 1								PHASE 2								PHASE 3								PHASE 4								PHASE 5								PHASE 6								PHASE 7								PHASE								
APPROACH	PHASE	FACE NO.	R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							R/W	CLEAR TO PHASE							FACE NO.
				2	3	4	5	6	7			1		3	4	5	6	7		1	2		4	5	6	7		1	2	3		5	6	7		1	2	3	4		6	7		1	2	3	4	5		7		1	2	3	4	5	6									
E BOUND S.O.R.		81,82	R								R								R								R								R								G	Y	Y	Y	Y		Y		R																		81,82
40 RP.4		33,34	R								L	YL		YL	YL	YL	YL	YL	R								R								R								R								R																		33,34
N BOUND @ S.O.R.		53	R								R								R								R								R								R								G	Y	Y	Y	Y	Y	Y									53
		27,28	R								R								R								R								R								R								G	Y	Y	Y	Y	Y	Y									27,28
SPOEDE RD. @ RP.3,4		52	R								R								G	Y	Y		G	Y	Y	Y	L	YL	YL	YL		YL	YL	YL	R								R								R																		52
		25,26	S	Y	S	S	Y	Y	Y		R								S	Y	Y		S	Y	Y	Y	S	S	Y	S		Y	Y	Y	R								R								R								R									25,26
S BOUND @ S.O.R.		67,68	R								R								R								R								G	Y	Y	Y	Y		Y	Y	R								R																		67,68
SPOEDE RD. @ RP.3,4		65,66	R								R								G	Y	Y		Y	Y	Y	Y	R								R								R								R								R									65,66

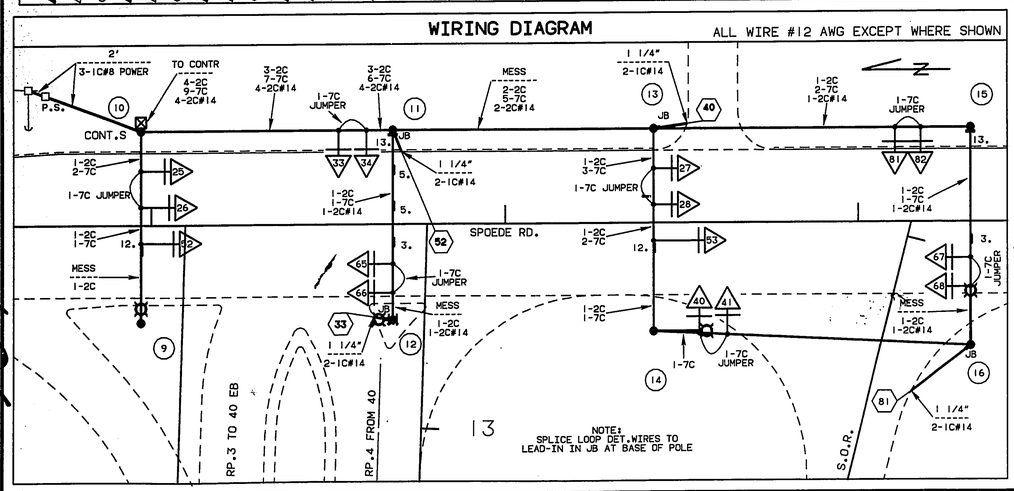
FLOW DIAGRAM



PHASE ON RECALL WITH EQUAL TIME SETTINGS.
SKIP PHASE.
COMBINED RECALL & SKIP PHASE.

WIRING DIAGRAM

ALL WIRE #12 AWG EXCEPT WHERE SHOWN



NOTE:
SPLICE LOOP DET. WIRES TO LEAD-IN IN JB AT BASE OF POLE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIMING TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

FLASHING OPERATION

RAMP 4 & S.O.R.	FR
SPOEDE RD.	FY

CONTROLLER TYPE 8Ø, SEMI

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
R/W — RIGHT OF WAY INTERVAL
DW — DON'T WALK
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
W — WALK
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING YELLOW

TRAFFIC SIGNAL CONTROL OPERATION

SPOEDE RD.
INTERSECTION OF
RTE. 40 SOUTH RAMPS
WITH

FINAL PLANS

D-38

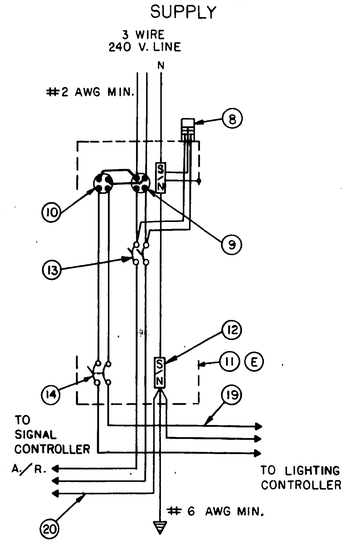
13

1544 24 TO 1

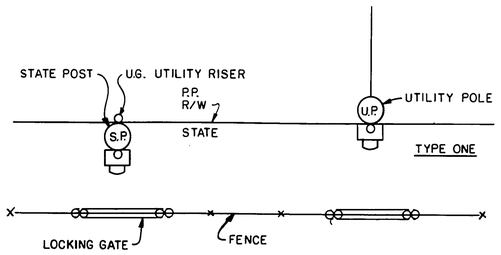
FINAL PLANS

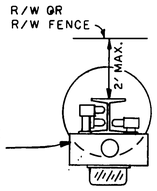
STATE MO.	JOB NO. J6I0647I	SHEET NO. 98G
DIST. NO. 6	PROJECT NO. IR-IR5-270-5(259)	ROUTE I-270
	COUNTY: ST. LOUIS	

SERVICE POWER SUPPLY



WIRING DIAGRAM
LIGHTS AND/OR SIGNALS

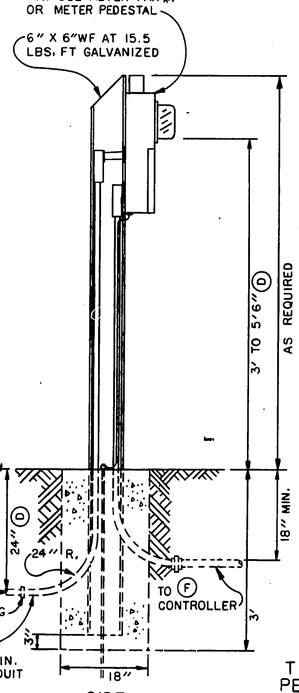




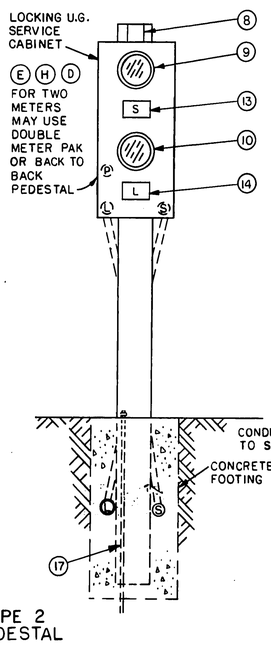
AT EACH LOCATION THE METERS SHALL FACE THE DIRECTION INDICATED BY THE UTILITY OR NOTED IN THE PLANS.
IF BACK TO BACK METER UNITS USED PLACE PEDESTAL AT RIGHT ANGLE TO R/W OR FENCE

TOP VIEW

(E)(H)(D) MAY USE METER PAK*. OR METER PEDESTAL

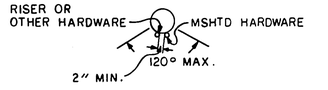


SIDE

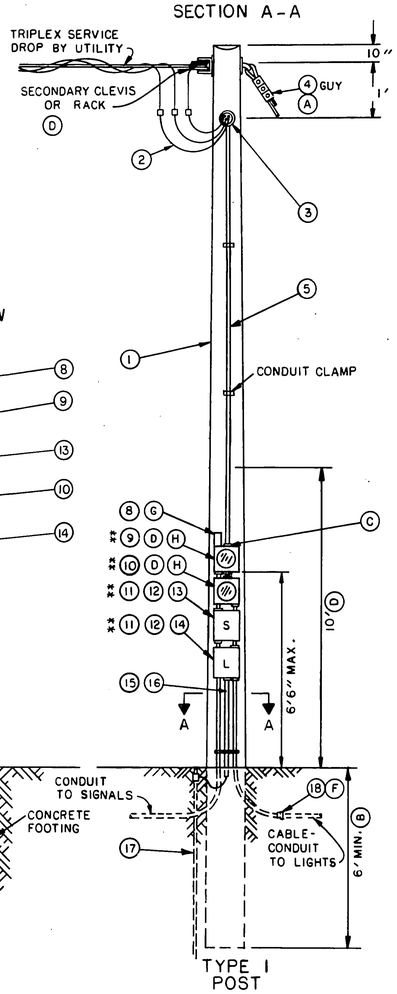


TYPE 2
PEDESTAL
UNDERGROUND SERVICE

LOCATION OF FACILITIES SHALL COMPLY WITH UTILITY CLEARANCE STANDARDS.



SECTION A-A



TYPE 1
POST
OVERHEAD SERVICE

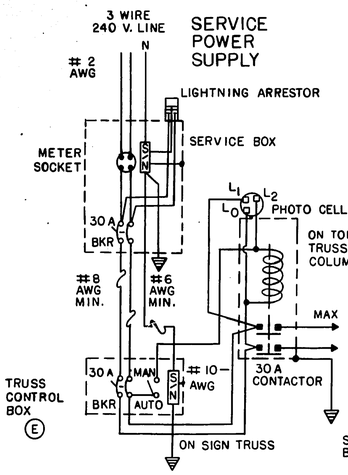
LIST OF MATERIALS * SEE PLANS

ITEM	DESCRIPTION
1	SERVICE POLE 30' MIN. *
2	CABLE #2 AWG, 600 VOLT
3	CONDUIT, SERVICE ENTRANCE CAP.
4	GUY CABLE, AS REQUIRED
5	METAL CONDUIT 1 1/2" MIN.
6	
7	
8	LIGHTNING ARRESTOR, VALVE TYPE, 2 POLE, 650 VOLT
9	METER SOCKET 100 AMP - SIGNAL - MANUAL BYPASS
10	METER SOCKET 100 AMP - LIGHTING
11	SERVICE BOX LOCKING, RAINTIGHT, NEMA 3 R
12	INSULATED GROUNDABLE NEUTRAL, 100 AMP
13	SIGNAL BKR, 1 POLE, 240 V. 30 A MIN, 10000 AIC, LOCKING *
14	LIGHT BKR, 2 POLE, 240 V. 40 OR 100 A, 10000 AIC., LOCKING *
15	METAL CONDUIT 1/2"
16	GROUND WIRE #6 AWG MIN.
17	GROUND ROD, 3/4" X 10' MIN.
18	CONNECTOR, PLASTIC CONDUIT, WATERTIGHT
19	CABLE CONDUIT *
20	CABLE #8 AWG, 600 VOLT MIN.
21	
22	PHOTO ELECTRIC CONTROL, 240 VOLTS-ON SIGN TRUSS
23	LOAD RELAY AND P.C., 240 VOLTS 30A-ON SIGN TRUSS
24	MANUAL - AUTO SWITCH, 15 AMP-ON SIGN TRUSS
25	

NOTES:
- (A) SERVICE POLE SHALL BE GUYED WHEN SPAN OF SERVICE WIRE EXCEEDS 50 FEET.
- (B) INCREASE 1 FOOT FOR EACH 5 FEET IN LENGTH ABOVE 30 FEET.
- (C) IF POWER SUPPLY ASSEMBLY IS ON A UTILITY COMPANY POLE OMIT RIGID STEEL CONDUIT AND COIL SERVICE ENTRANCE CABLES ABOVE METER BOX WITH LENGTH TO REACH UTILITY COMPANY SECONDARY AND FORM DRIP LOOP.
- (D) AS REQUIRED OR RECOMMENDED BY LOCAL UTILITY COMPANY.
- (E) SCHEMATIC DIAGRAM TO BE MOUNTED ON INSIDE OF CABINET DOOR.
- (F) CABLE-CONDUIT TO BE TERMINATED IN METAL CONDUIT.
- (G) WHEN METER BOX IS NOT USED, LIGHTNING ARRESTOR WILL BE LOCATED ON BREAKER BOX.
- (H) UTILITY APPROVED: METER SERVICE PAKS OR SERVICE PEDESTALS MAY BE USED, NEMA 3 R.
- (I) WHEN SHOWN ON THE PLANS OR DESIGNATED IN THE CONTRACT, THE METER ASSEMBLY SHALL BE LOCATED ON UTILITY COMPANY POLE.
  - THE TYPE POWER SUPPLY ASSEMBLY IS SHOWN ON THE PLANS OR DESIGNATED IN THE CONTRACT.
  - ALL WORK AND ITEMS SHALL MEET NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION STANDARDS.
  - THE UTILITY COMPANY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
  - WHERE SIGNAL OR LIGHTING POWER ONLY IS NEEDED, OMIT ITEMS NOT REQUIRED.
  - ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL OR NON-FERROUS METAL.

ALL SERVICE ASSEMBLIES TO BE LOCATED ON THE RIGHT OF WAY.

SERVICE POWER SUPPLY 3 WIRE 240 V. LINE



WIRING DIAGRAM
SIGN TRUSS LIGHTS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SERVICE
POWER SUPPLY
120/240 VOLT

FINAL PLANS
SPECIAL SHEET 9 OF 11

U.E. LIGHT METERS O.H. # ... U.G. # ...
U.E. SIGNAL METERS O.H. # ... U.G. # ...

1544 24 TO 1

FINAL PLANS

FED. ROAD DIV. NO.	STATE	JOB NO. JGI0647I-270	SHEET NO.
7	MO.	PROJ. NO. IR-IRG-270-5(259)	99
DIST. 6		COUNTY ST. LOUIS	ROUTE I-270

SP-29
REV. AUG. 1, 1981

SIGN SHEET 14 OF 30

SIGNS

SIGN NO.	STATION	SIGN DT'L SHT NO.	LOCATION	NEW EXIT SIGN SIZE	NEW SIGN SIZE	PIPE POST (*TOTAL INCLUDES STUB LENGTH WHEN APPLICABLE)
4	617+50	1/3, 3/3	℄ 40 ℄-Rt	8x2, 8x2	Mod 13.5x10, 12.5x13	EXIST. 71' TRUSS
5	346+00	1/3	I-270 ℄-Rt	7.5x2	Modify 13x11	EXIST. 95' TRUSS
10	643+00	—	℄ 40 ℄	—	—	EXIST. 12'+12' B TRUSS (Relamp Only)
12	377+50	—	I-270 ℄	—	—	EXIST. 10'+10' B TRUSS (Relamp Only)
13	656+30	1/3	℄ 40 Rt	8x2	Mod 16.5x11.5	EXIST. 30' CANT. TRUSS
15	391+00	1/3	I-270 ℄-Lt	—	6.5x7.5	EXIST. 105' TRUSS
23	6+50	2/3	Ramp 3 Lt-Rt	—	14x12.5, 14x12.5	NEW 50' TRUSS
25	6+13±		Ramp 5 Lt-Rt	—	13x9.5, 12x9	NEW 75' TRUSS
41	695+80	1/3, 3/3	℄ 40 ℄-Lt	8x2	13x7.5, 19x8.5	NEW 80' TRUSS
44	664+30.29	1/3, 3/3	℄ 40 ℄-Rt	8x2	13x7.5, 22x8.5	NEW 79'8" TRUSS
49	687+36.20		EBL 40 Rt	8x2	12x7.5	NEW 20' CANT. TRUSS ON BR.
85	6+30	2/3	Ramp 5 Lt-Rt	—	14x12.5, 14x12.5	NEW 50' TRUSS
409	676+50	3/3	EBL 40 Rt	8x2	12x12	NEW 30' CANT. TRUSS
51	11+83	—	Ramp 9 Lt	—	4x2.5	
52	11+83		Ramp 9 Rt	—	4x2.5	
G1	370+00	—	I-270 Lt	—	ASMBLY	
G2	385+00	—	I-270 Lt	—	4x4	
G3	404+47	—	I-270 Lt	—	4x4	
G4	32+98	—	Ramp 4 Rt	—	4x4	
G5	405+12±	—	I-270 Rt	4.5x2	6x5	
G6	24+25	—	Ramp 8 Rt	—	4x4	
G7	24+40	—	Ramp 2 Rt	—	4x4	
G8	428+70±	—	I-270 Lt	4.5x2	6x5	
G9	29+03	—	Ramp 6 Rt	—	4x4	
G11	441+00	1/3	I-270 Rt	—	6.5x7.5	
G12	447+00	—	I-270 Rt	—	4x4	
G13	651+40	—	℄ 40 Lt	—	4x4	
G14	657+40	—	℄ 40 Lt	—	4x4	
G15	671+50±	—	EBL 40 Rt	4.5x2	6x5	
G16	672+33	—	WBL 40 Lt	—	4x4	
G17	692+52±	—	WBL 40 Lt	4.5x2	6x5	
G18	43+74	—	Ramp 2 Rt	—	4x4	
G19	713+80	—	℄ 40 Lt	—	4x4	
G20	721+15	1/3	℄ 40 Rt	—	6.5x7.5	
G21	726+64	—	℄ 40 Rt	—	ASMBLY	
G22	728+80	—	℄ 40 Rt	—	4x4	
G23	2+94±	—	Ramp 9 Lt	4.5x2	6x5	

CONT. 503.01' COLUMN REVISION SIGN TRUSS NO. 49 — 1 LUMP SUM

TOTAL — 1 LUMP SUM

Quantities

SIGN NO.	PIPE POST TOTAL LBS.	STRUCT. STEEL POST DES. NO.	POST NO. 1 LIN. FT.	POST NO. 2 LIN. FT.	POST NO. 3 LIN. FT.	TOTAL* LIN. FT.	LBS PER FT.	TOTAL LBS.	3 INCH ZEE ASSEMBLY NO. EACH	POST SPACE	TOTAL LBS.	★ BASE PLATE LBS.	CROSS-BARS (2" X 3/8" BARS @ 2.55 LBS/LIN. FT.) NO. EACH	LG. IN.	TOTAL LIN. FT.	TOTAL LBS.	BRKAWY ASM. ITEM NO. 903-12.40 EACH	TOTAL STRUCT STL. POST ITEM NO. 903-12.10 POUNDS	TOTAL PIPE POST ITEM NO. 903-12.20 POUNDS	CONC. FTG'S EMBD ITEM NO. 903-10.10 CU. YDS.	CONC. FTG'S BOLT DOWN ITEM NO. 903-10.20 CU. YDS.	BRKAWY ASM. MULTI DIR'L ITEM NO. 903-12.40 EACH	HORZ CLEAR IF NOT STD
4																					—		
5																					—		
10																					—		
12																					—		
13																					—		
																					27.2		
15																					37.8		
																					32.5		
23																					30.0		
25																					—		
41																					—		
44																					27.4		
																					20.9		
49																					—		
51	—	1	13	13	—	26	9	234					—	—	—	—	2	234		0.27			
52	—	1	13	13		26	9	234					—	—	—	—	2	234		0.27			
G1	—	1	14	—	—	14	9	126					—	—	—	—	1	126	—	0.14		—	
G2	—	1	16	—	—	16	9	144					1	60	5	13	1	157	—	0.14		—	
G3	—	1	16	—	—	16	9	144					1	60	5	13	1	157	—	0.14		—	
G4	—	1	16.25	—	—	16.25	9	146					1	60	5	13	1	159	—	0.14		—	
G5	—	1	18	19.25	—	37.25	9	335					—	—	—	—	2	335	—	0.28		—	2'/2'
G6	—	1	18.25	—	—	18.25	9	164					1	60	5	13	1	177	—	0.14		—	
G7	—	1	16.5	—	—	16.5	9	149					1	60	5	13	1	162	—	0.14		—	
G8	—	1	17.5	18.25	—	35.75	9	322					—	—	—	—	2	322	—	0.28		—	2'/12'
G9	—	1	18.5	—	—	18.5	9	167					1	60	5	13	1	180	—	0.14		—	
G11	—	1	19.5	20.5	—	40	9	360					—	—	—	—	2	360	—	0.28		—	
G12	—	1	11.25	—	—	11.25	9	101					1	60	5	13	1	114	—	0.14		—	
G13	—	1	19.75	—	—	19.75	9	178				11	1	60	5	13	2	202	—	Spcl. Mt.	0.23	—	-1.04'
G14	—	1	15.08	—	—	15.08	9	136				11	1	60	5	13	2	160	—	Spcl. Mt.	0.23	—	-1.04'
G15	—	1	17.5	18	—	35.5	9	320					—	—	—	—	2	320	—	0.28		—	2'/2'
G16	—	1	17.5	—	—	17.5	9	158					1	60	5	13	1	171	—	0.14		—	
G17	—	1	17.75	17.5	—	35.25	9	317					—	—	—	—	2	317	—	0.28		—	2'/2'
G18	—	1	15.5	—	—	15.5	9	140					1	60	5	13	1	153	—	0.14		—	
G19	—	1	16.5	—	—	16.5	9	149					1	60	5	13	1	162	—	0.14		—	
G20	—	1	13.75	12.5	—	26.25	9	236					—	—	—	—	—	236	—	0.28		—	
G21	—	1	12.5	—	—	12.5	9	113					4	50	16.67	43	—	156	—	0.14		—	
G22	—	1	11.5	—	—	11.5	9	104					1	60	5	13	—	117	—	0.14		—	
G23	—	1	14.75	14.92	—	29.67	9	267				27	—	—	—	—	—	294	—	0	Spcl. Mt.	—	9"/9"
Subtotals																	29	5005		4.04	176.3		
TOTALS:																	29	5010		4.0	176.3		
																	Each	Pounds		Cu.Yd.	Cu.Yd.		

FLEXIBLE DELINEATORS

Lights & Signs Sheet	Yell. ▲	Wht. ●	Elong Wht. ○
1	0	4	40
2	0	3	5
3	16	19	0
4	14	31	0
5	18	28	0
6	15	25	0
7	0	4	22
8	0	4	22
9	0	0	0
10	17	12	0
11	14	9	0
12	0	0	0
13	0	0	0
TOTALS: —	94	139	89

▲ Item 903-50.22
● " 903-50.21
○ " 903-50.20

DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING & BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.

See Lighting Quantities Sheet for All Sign Lighting Items except Relamping of Trusses, below.

SIGN LEGEND MODIFICATIONS
Item No. 903-99.04

4 b: (R) "EXIT", Recenter "1¼ MILES"
4 c: Add 12.5x1.5' EXIT ONLY Panel, (R) "EXIT", Center "1 MI."
5 b: Add 36x36" I-64 Shield, Respace 40 & 61
13: Add 16.5x1.5' EXIT ONLY Panel, (R) "¼ MILE"
TOTAL: 4 SIGNS

RELAMPING EXISTING SIGNS TO USE PANEL-VUE LUMINAIRES
Item No. 903-99.99

SIGN	NO. EXIST. LAMPS	NO. NEW LUM.
4a	2	1 @ ℄ Panel
4b,e	2	1 "
4c,f	2	1 "
5a,b	3	1 "
5c,d	2	1 "
10a	3	2 @ 12' Centers
10b	4	1 @ ℄ Panel
2a	3	1 "
2b	3	1 "
13a,b,c	3	1 "
15a,b	3	1 "
15c	0	1 "
	30 Remove & Salvage	13 Total 250W Panel-Vue Luminaires

Note: Mount New Panel-Vue Luminaires (Cat. No. PANL-250MH-48-STD) with 4-bolt bracket (and door prop) onto slotted channel light supports existing on the truss per Std. 903.09. Luminaire shall be positioned approximately 4' horizontally from the sign panel and 1' below the bottom edge of the panel. Any modifications to the wiring on the truss shall be included in the price bid for the Panel-Vue Luminaires. Do Not use Light Support Extension Channels.

★ Entries in this column show weights of misc. brackets, angle and hardware needed for Special Mounts. See Special Sheets. These misc. items shall be included in price bid for Struct. Steel Posts 903-12.10.

MILEPOSTS Item 903-50.13
MILE 26 - 691+47 (on Post) W.B.L. 40
MILE 26 - 2+94± Rp 9 (on G23) E.B.L. 40
Total: 2 Each

14/30
4/91 647I

1544 24 TO 1

FINAL PLANS

SP-30
REV. AUG. 1, 1981

FED. ROAD DIV. NO.	STATE	JOB NO. G16047I 270	SHEET NO.
7	MO.	PROJ. NO. IR-IRG-270-5(259)	100
DIST. NO. 6	COUNTY ST. LOUIS	ROUTE I-270	SEC

SIGN SHEET 15 OF 30

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE M1-1 (64) 24x24	M1-1a (70) 30x24	M3-2a EAST 24x12	M3-1a NORTH 24x12	M1-4 (65) 24x24	M1-4 (61) 24x24	M3-2 EAST 24x12	M3-3 SOUTH 24x12
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH							
G1	370+00	I-270 Lt		1		1				
G21	726+64	& 40 Rt	1		1		1	1	1	1
		Totals:	1	1	1	1	1	1	1	1
		Sq. Ft. Each:	4	5	2	2	4	4	2	2
		Sq. Ft. Totals:	4	5	2	2	4	4	2	2

SHR123
13 Sq. Ft.

SHR1
12 Sq. Ft.

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE	STR4 ITEM NO. 903-50.01	STR24 ITEM NO. 903-50.02	STR1 ITEM NO. 903-50.03	CONT 503.02 SHR24 ITEM NO. 903-50.04	SHR123 ITEM NO. 903-50.05	SHR1 ITEM NO. 903-50.06	SHB24 ITEM NO. 903-50.07	36" STOP EACH
			SIZE TYPE & SQUARE FEET								
W4-1Rb G18, G19	—	2	4x4						32.00		
W4-3 G3, G4, G6, G7, G9, G16	—	6	4x4						96.00		
RT. LN. ENDS W9-1Rb G2, G12, G13, G22	—	4	4x4						64.00		
LN. ENDS MRG. LT. W9-2La G14	—	1	4x4						16.00		
ASMBLY	—	(SEE AT LEFT)						13.00	12.00		
ASMBLY	—										
(EXIT NO.) 12 G5a, G8a	—	2	4.5x2				18.00				
25 EI-5b G15a, G17a	—	2	4.5x2				18.00				
26 G23a	—	1	4.5x2				9.00				
EXIT E5-1 G5b, G8b, G15b, G17b, G23b 5a	—	1	6x5				150.00				
EXIT 12	—	4	7.5x2	15.00							
EXIT 25 EI-5a 4/c, 4f, 13c, 44c	—	4	8x2	64.00							
EXIT 26 49b, 4e, 409b	—	3	8x2	48.00							
I-64 SHIELD M1-1d 5b	1/3	1	3x3					9.00			
WRONG WAY 51, 52	—	2	4x2.5					20.00			
SPECIAL											
↓EXIT ONLY↓ 13b	1/3	1	16.5x1.5			24.75					
EXIT↓ ONLY 4d	1/3	1	12.5x1.5			18.75					
G11 G20, 15c	1/3	3	6.5x7.5			146.25					
85b, 23a	2/3	2	14x12.5	350.00							
85a, 23b	2/3	2	14x12.5	350.00							
44a	1/3	1	13x7.5	97.50							
44b	3/3	1	22x8.5	187.00							
409a	3/3	1	12x12	144.00							
25a	1/3	1	13x9.5	123.50							
25b	3/3	1	12x9	108.00							
41a	1/3	1	13x7.5	97.50							
41b	3/3	1	19x8.5	161.50							
49a	3/3	1	12x7.5	90.00							
Subtotals:				1836.00		189.75	195.00	42.00	220.00		
TOTAL				1836		190	195.00	42.00	220		

FINAL PLANS

15/30

4/11

647I

1544 24 TO 1

SP-31

FINAL PLANS

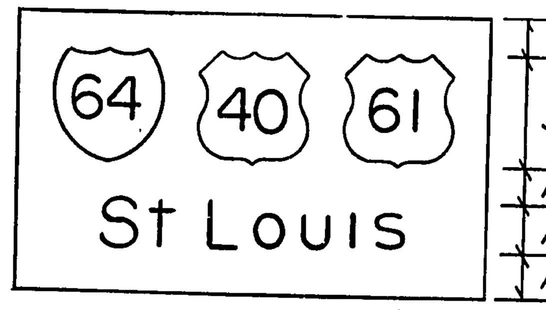
SPECIAL SIGN DETAIL SHEET

Job No J6I0647I - 270

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	IR-IR6-270-5(259)	101
DIST. NO.	COUNTY	ROUTE	SEC.
6	ST. LOUIS	I-270	

SIGN NO. 44a
STATION 664+03.29
QUANTITY REQ'D 1
OVERALL SIZE: WIDTH 13 FT, HEIGHT 7.5 FT
BORDER: WIDTH 2 IN, RADII 12 IN
BACKGROUND: TYPE STR 4, COLOR Green
LEGEND: COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2 or L4, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



Series E(M)

SPACE 12

LINE	COPY SIZE												
LINE 1	36	COPY	X	64	X	40	X	61	X				
		SPACE	12	36	12	36	12	36	12				

SPACE 12

LINE	COPY SIZE												
LINE 2	16/12	COPY	X	S	t	X	L	o	u	i	s	X	
		SPACE	24.68	16.13	8	18	15.13	15.38	16.38	7.5	10.13	24.67	

SPACE 14

LINE 3 COPY SIZE — COPY — SPACE —

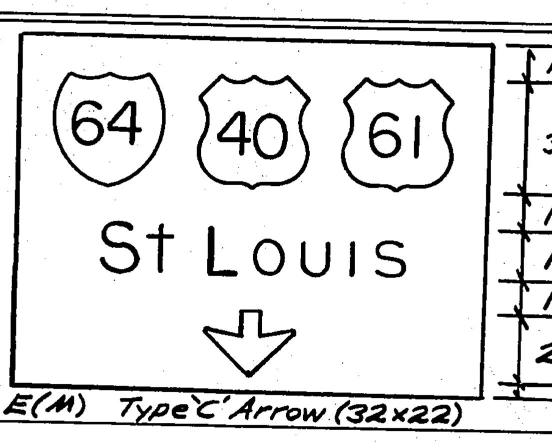
SPACE

LINE 4 COPY SIZE — COPY — SPACE —

SPACE

SIGN NO. 25a
STATION 16+13, Rp 5
QUANTITY REQ'D 1
OVERALL SIZE: WIDTH 13 FT, HEIGHT 9.5 FT
BORDER: WIDTH 2 IN, RADII 12 IN
BACKGROUND: TYPE STR4, COLOR Green
LEGEND: COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



Series E(M) Type 'C' Arrow (32x22)

SPACE 12

LINE	COPY SIZE												
LINE 1	36	COPY	X	64	X	40	X	61	X				
		SPACE	12	36	12	36	12	36	12				

SPACE 12

LINE	COPY SIZE												
LINE 2	16/12	COPY	X	S	t	X	L	o	u	i	s	X	
		SPACE	24.68	16.13	8	18	15.13	15.38	16.38	7.5	10.13	24.67	

SPACE 12

LINE	COPY SIZE				
LINE 3	22	COPY	X	↓	X
		SPACE	62	32	62

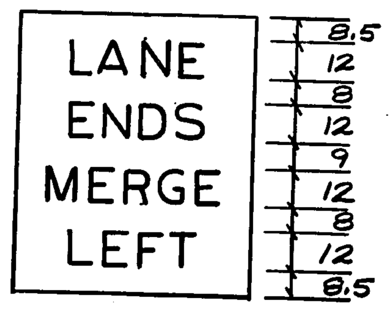
SPACE 4

LINE 4 COPY SIZE — COPY — SPACE —

SPACE

SIGN NO. 15c, G11, G20
STATION
QUANTITY REQ'D 3
OVERALL SIZE: WIDTH 6.5 FT, HEIGHT 7.5 FT
BORDER: WIDTH 1 1/8 IN, RADII 9 IN
BACKGROUND: TYPE STR 1, COLOR Yellow
LEGEND: COPY TYPE L1, COLOR Black, BORDER TYPE L1, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN.
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



Series E(M)

SPACE 8.5

LINE	COPY SIZE								
LINE 1	12	COPY	X	L	A	N	E	X	
		SPACE	16.21	9.65	14.47	12.65	8.82	16.20	

SPACE 8

LINE	COPY SIZE								
LINE 2	12	COPY	X	E	N	D	S	X	
		SPACE	16.23	11.29	12.65	12.04	9.57	16.22	

SPACE 9

LINE	COPY SIZE								
LINE 3	12	COPY	X	M	E	R	G	E	X
		SPACE	9.53	14.15	11.29	12.04	12.65	8.82	9.52

SPACE 8

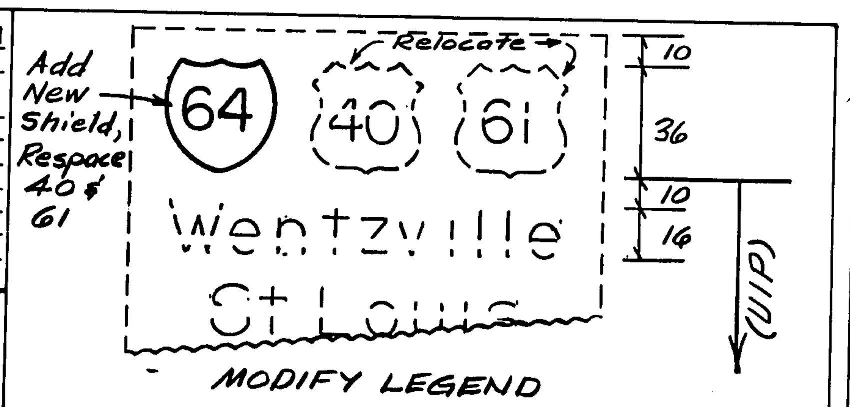
LINE	COPY SIZE								
LINE 4	12	COPY	X	L	E	F	T	X	
		SPACE	18.07	11.29	11.29	10.47	8.82	18.06	

SPACE 8.5

#7138

SIGN NO. 5b
STATION 346+00
QUANTITY REQ'D 1 MOD.
OVERALL SIZE: WIDTH 13 FT, HEIGHT 11 FT
BORDER: WIDTH 2 IN, RADII 12 IN
BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-2, COLOR White, BORDER TYPE L-2, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN.
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



SPACE 10 — New — Relocate

LINE	COPY SIZE												
LINE 1	36	COPY	X	64	X	40	X	61	X				
		SPACE	12	36	12	36	12	36	12				

SPACE 10

LINE	COPY SIZE													
LINE 2	16/12	COPY	X	W	e	n	t	z	v	i	l	l	e	X
		SPACE	←(U.I.P.)→											

SPACE

LINE	COPY SIZE										
LINE 3	16/12	COPY	X	S	t	X	L	o	u	i	s	X
		SPACE	←(U.I.P.)→								

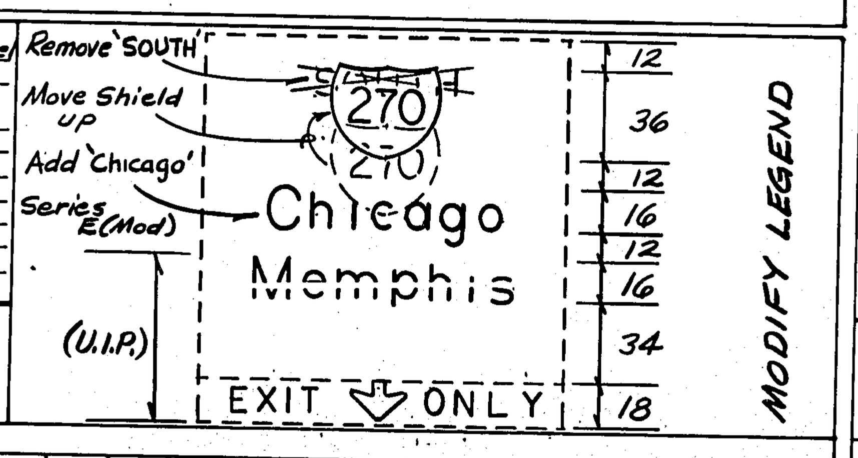
SPACE

LINE	COPY SIZE										
LINE 4	16/10.67	COPY	X	1	X	1/4	X	M	I	L	E	S	X
		SPACE	←(U.I.P.)→								

SPACE

SIGN NO. 4d
STATION 617+50
QUANTITY REQ'D 1 MOD.
OVERALL SIZE: WIDTH 12.5 FT, HEIGHT 13 FT
BORDER: WIDTH — IN, RADII — IN
BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-, COLOR White, BORDER TYPE L-, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN.
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



SPACE 12

LINE	COPY SIZE				
LINE 1	36	COPY	X	270	X
		SPACE	52.5	45	52.5

SPACE 12

LINE	COPY SIZE										
LINE 2	16/12	COPY	X	C	h	i	c	a	g	o	X
		SPACE	26.61	18	16.38	7.88	13.88	15.01	15.13	10.5	26.61

SPACE 12

LINE	COPY SIZE											
LINE 3	16/12	COPY	X	M	e	m	p	h	i	s	X
		SPACE	←(U.I.P.)→								

SPACE 34

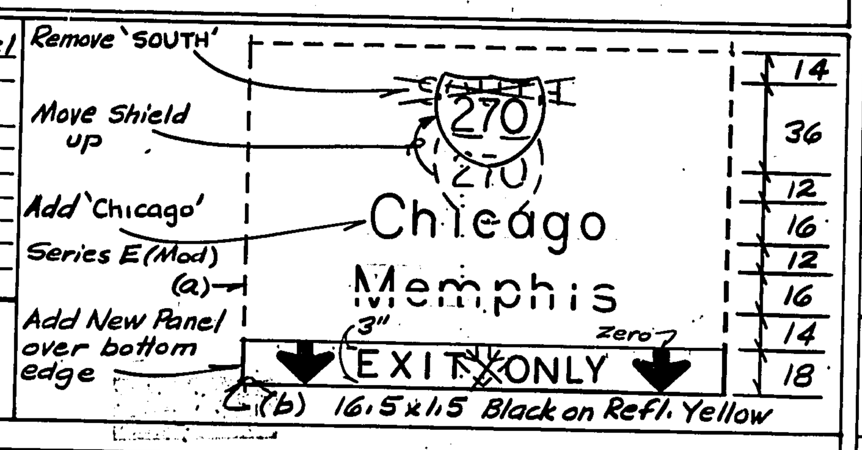
LINE	COPY SIZE														
LINE 4	18	COPY	X	E	X	I	T	X	↓	X	O	N	L	Y	X
		SPACE	←(U.I.P.)→												

SPACE

SIGN NO. 13a, b
STATION 656+30
QUANTITY REQ'D 1 MOD.
OVERALL SIZE: WIDTH 16.5 FT, HEIGHT 11.5 FT
BORDER: WIDTH — IN, RADII — IN
BACKGROUND: TYPE Baked Enamel, COLOR Green
LEGEND: COPY TYPE L-, COLOR White, BORDER TYPE L-, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

MODIFY LEGEND

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN.
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



SPACE 14

LINE	COPY SIZE				
LINE 1	36	COPY	X	270	X
		SPACE	76.5	45	76.5

SPACE 12

LINE	COPY SIZE										
LINE 2	16/12	COPY	X	C	h	i	c	a	g	o	X
		SPACE	50.61	18	16.38	7.88	13.88	15.01	15.13	10.5	50.61

SPACE 12

LINE	COPY SIZE										
LINE 3	16/12	COPY	X	M	e	m	p	h	i	s	X
		SPACE	←(U.I.P.)→								

SPACE 14 — 12" Series E(Mod.) No border on (b) Type 'C' Arrows (22.5x16.5)

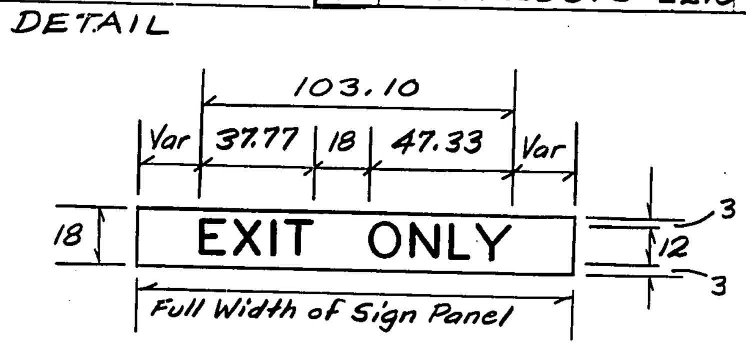
LINE	COPY SIZE																		
LINE 4	12	COPY	X	↓	X	E	X	I	T	X	O	N	L	Y	X	↓	X
		SPACE	14.07	22.5	10.88	11.29	12.79	4.87	8.82	18	13.03	12.65	9.65	12	10.88	22.5	14.07

SPACE

SIGN NO.
STATION
QUANTITY REQ'D
OVERALL SIZE: WIDTH Var FT, HEIGHT 1.5 FT
BORDER: WIDTH — IN, RADII — IN
BACKGROUND: TYPE STR1, COLOR Yellow
LEGEND: COPY TYPE L1, COLOR Black, BORDER TYPE None, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

DETAIL



12" Series E(Mod.)

SPACE 3

LINE	COPY SIZE														
LINE 1	12	COPY	X	E	X	I	T	X	O	N	L	Y	X	22' WIDE PANEL	Sign 44b
		SPACE	80.45	11.29	12.79	4.87	8.82	18	13.03	12.65	9.65	12	80.45		

SPACE 3

LINE	COPY SIZE						
LINE 2		COPY	X	X	X	19'	Sign 41b
		SPACE	62.45	18	62.45		

SPACE

LINE 3 COPY SIZE — COPY — SPACE —

SPACE

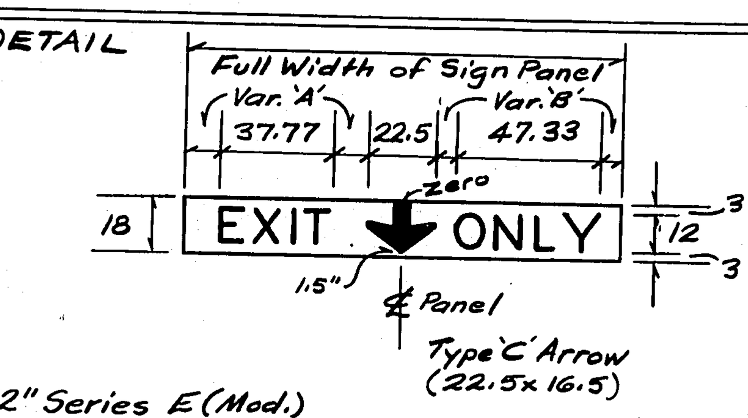
LINE 4 COPY SIZE — COPY — SPACE —

SPACE

SIGN NO.
STATION
QUANTITY REQ'D
OVERALL SIZE: WIDTH Var. FT, HEIGHT 1.5 FT
BORDER: WIDTH — IN, RADII — IN
BACKGROUND: TYPE STR1, COLOR Yellow
LEGEND: COPY TYPE L1, COLOR Black, BORDER TYPE None, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

DETAIL



12" Series E(Mod.)

SPACE 3 — 'A' — 'A' — 'B' — 'B'

LINE	COPY SIZE														
LINE 1	12	COPY	X	E	X	I	T	X	↓	X	O	N	L	Y	X	WIDTH OF PANEL
		SPACE		11.29	12.79	4.87	8.82		22.5		13.03	12.65	9.65	12		

SPACE 3

LINE	COPY SIZE							
LINE 2		COPY	X	X	X	X	12.5'	
		SPACE	12.99	12.99	8.21	8.21		

SPACE

LINE	COPY SIZE							
LINE 3		COPY	X	X	X	X	12'	Sign 25b
		SPACE	11.49	11.49	6.71	6.71		

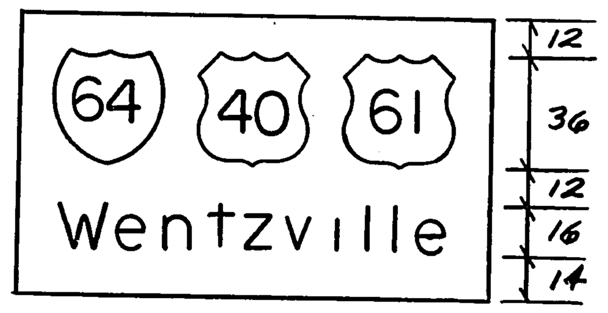
SPACE

LINE 4 COPY SIZE — COPY — SPACE —

SPACE

SIGN NO. 41a
STATION
QUANTITY REQ'D 1
OVERALL SIZE: WIDTH 13 FT, HEIGHT 7.5 FT
BORDER: WIDTH 2 IN, RADII 12 IN
BACKGROUND: TYPE STB24, COLOR Green
LEGEND: COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE, MARKER TYPE, PANEL TYPE, POST SIZE

WIDTH-HORIZONTAL SPACING-INCHES
END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN
OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



SPACE 12

LINE	COPY SIZE												
LINE 1	36	COPY	X	64	X	40	X	61	X				
		SPACE	12	36	12	36	12	36	12				

SPACE 12

LINE	COPY SIZE													
LINE 2	16/12	COPY	X	W	e	n	t	z	v	i	l	l	e	X
		SPACE	13.55	20.63	15.25	14.75	11.75	13.75	16.38	9.13	9.13	7.88	10.25	13.55

SPACE 14

LINE 3 COPY SIZE — COPY — SPACE —

SPACE

LINE 4 COPY SIZE — COPY — SPACE —

SPACE

FINAL PLANS

SIGN SHEET 16 OF 30 I

(15) (4a) (5) (13) (25a) (41a) (44a) 11/10 1/3

1544 24 TO 1

FINAL PLANS

FAI ROUTE	STATE	FEDERAL PROJECT No. & SEC	SHEET
5	MO.	IR-IRG-270-5(259)	102
SAT NO	COUNTY	ROUTE	SEC
6	ST. LOUIS I-270		

SP-31

SPECIAL SIGN DETAIL SHEET

Job No. 6I 647I- 270

SIGN NO. ____ STATION ____ QUANTITY REQ'D ____ OVERALL SIZE WIDTH ____ FT HEIGHT ____ FT BORDER WIDTH ____ IN RADII ____ IN

BACKGROUND TYPE ____ COLOR ____

LEGEND COPY TYPE ____ COLOR ____ BORDER TYPE ____ ROUTE ____ MARKER TYPE ____ PANEL TYPE ____ POST SIZE ____

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SPACE		
LINE 1	COPY SIZE	COPY
		SPACE
SPACE		
LINE 2	COPY SIZE	COPY
		SPACE
SPACE		
LINE 3	COPY SIZE	COPY
		SPACE
SPACE		
LINE 4	COPY SIZE	COPY
		SPACE
SPACE		

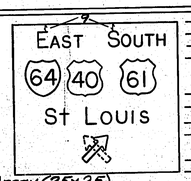
SIGN NO. 85b 23a STATION ____ QUANTITY REQ'D 2 OVERALL SIZE WIDTH 14 FT HEIGHT 12.5 FT BORDER WIDTH 2 IN RADII 12 IN

BACKGROUND TYPE STR4 COLOR Green

LEGEND COPY TYPE L2 or L4 COLOR White BORDER TYPE L2,L4 ROUTE ____ MARKER TYPE ____ PANEL TYPE ____ POST SIZE ____

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

Series E(M)



12 12 12 36 13 16 12 25 12

Type 'A' 45° Arrow (25x25)
Right for 85a, Left for 23a

SPACE 12																
LINE 1	COPY SIZE 15/12	COPY	E	A	S	T	S	O	U	T	H					
		SPACE 26.88	2.92	14.47	12.04	8.82	20.05	14.89	13.03	12.04	11.29	9.57	12			
SPACE 12																
LINE 2	COPY SIZE 36	COPY	64		40		61									
		SPACE 12	36	6	36	17.59	36	24.41								
SPACE 13																
LINE 3	COPY SIZE 16/12	COPY	S	t	L	O	U	I	S							
		SPACE 30.68	16.13	8	18	15.13	15.38	16.38	7.5	10.13	30.63					
SPACE 12																
LINE 4	COPY SIZE 25	COPY														
		SPACE 7.5	25	17.5												
SPACE 12																

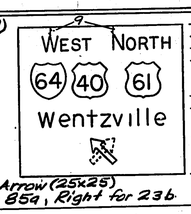
SIGN NO. 85a 23b STATION ____ QUANTITY REQ'D 2 OVERALL SIZE WIDTH 14 FT HEIGHT 12.5 FT BORDER WIDTH 2 IN RADII 12 IN

BACKGROUND TYPE STR4 COLOR Green

LEGEND COPY TYPE L2 or L4 COLOR White BORDER TYPE L2,L4 ROUTE ____ MARKER TYPE ____ PANEL TYPE ____ POST SIZE ____

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY.

Series E(M)



12 12 12 36 13 16 12 25 12

Type 'A' 45° Arrow (25x25)
Left for 85a, Right for 23b

SPACE 12																
LINE 1	COPY SIZE 15/12	COPY	W	E	S	T	N	O	R	T	H					
		SPACE 25.56	18.74	11.29	12.04	8.82	18.15	15.47	13.03	12.04	11.29	9.57	12			
SPACE 12																
LINE 2	COPY SIZE 36	COPY	64		40		61									
		SPACE 12	36	6	36	17.3	36	24.7								
SPACE 13																
LINE 3	COPY SIZE 16/12	COPY	W	e	n	t	z	v	i	l	l	e				
		SPACE 19.53	20.63	15.25	4.75	11.75	13.75	16.38	9.13	9.13	7.88	10.25	19.55			
SPACE 12																
LINE 4	COPY SIZE 25	COPY														
		SPACE 7.5	25	11.5												
SPACE 12																

FINAL PLANS

SIGN SHEET 17 OF 30

23 65 3/11 2/3

1544 24 TO 1

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC	SHEET
5	MO.	IR-IRG-270-5(259)	103
DIST. NO.	COUNTY	ROUTE	SEC
6	ST. LOUIS	I270	

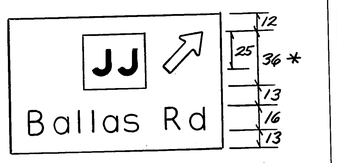
SP-31

SPECIAL SIGN DETAIL SHEET

Job No J6I0647I- 270

SIGN NO. 49a — STATION — — — — — QUANTITY REQ'D 1 — OVERALL SIZE WIDTH 12 FT, HEIGHT 7.5 FT — BORDER WIDTH 2 IN, RADII 12 IN — BACKGROUND TYPE STR4, COLOR Green — LEGEND COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE —, MARKER TYPE SPCL, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY



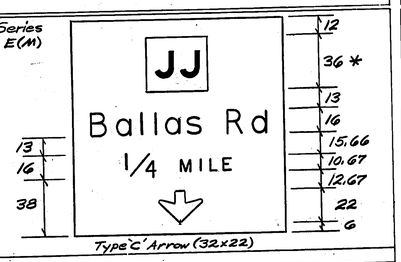
Series E(M) Type 'A' 45° Arrow (25x25)

SPACE 12							45°																	
LINE 1	COPY SIZE 36	COPY		J J		↗																		
		SPACE	51	42	14	25	12																	
SPACE 13																								
LINE 2	COPY SIZE 16/12	COPY		B	a	i	l	a	s		R	d												
		SPACE	11.8	17.25	16.26	9.13	7.88	14.63	10.13	18	16.88	10.25	11.79											
SPACE 13																								
LINE 3	COPY SIZE	COPY																						
		SPACE																						
SPACE																								
LINE 4	COPY SIZE	COPY																						
		SPACE																						
SPACE																								

SIGN NO. 409a — STATION 676+50 — QUANTITY REQ'D 1 — OVERALL SIZE WIDTH 12 FT, HEIGHT 12 FT — BORDER WIDTH 2 IN, RADII 12 IN — BACKGROUND TYPE STR4, COLOR Green — LEGEND COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE —, MARKER TYPE SPCL, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

Series E(M)



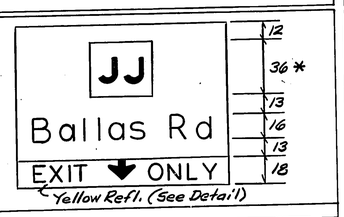
Type 'C' Arrow (32x22)

SPACE 12																								
LINE 1	COPY SIZE 36	COPY		J J																				
		SPACE	51	42	51																			
SPACE 13																								
LINE 2	COPY SIZE 16/12	COPY		B	a	i	l	a	s		R	d												
		SPACE	11.8	17.25	16.26	9.13	7.88	14.63	10.13	18	16.88	10.25	11.79											
SPACE 13																								
LINE 3	COPY SIZE 16/10.67	COPY		1/4		M	I	L	E															
		SPACE	35.5	21.34	16	12.73	4.98	10.08	7.88	35.5														
SPACE 10																								
LINE 4	COPY SIZE 22	COPY		↓																				
		SPACE	56	32	56																			
SPACE 6																								

SIGN NO. 25b — STATION 16+13, RPS — QUANTITY REQ'D 1 — OVERALL SIZE WIDTH 12 FT, HEIGHT 9 FT — BORDER WIDTH 2 IN, RADII 12 IN — BACKGROUND TYPE STR4, COLOR Green — LEGEND COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE —, MARKER TYPE SPCL, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

Series E(M)



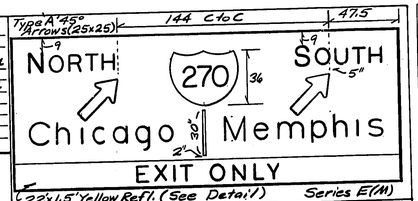
Yellow Refl. (See Detail)

SPACE 12																								
LINE 1	COPY SIZE 36	COPY		J J																				
		SPACE	51	42	51																			
SPACE 13																								
LINE 2	COPY SIZE 16/12	COPY		B	a	i	l	a	s		R	d												
		SPACE	11.8	17.25	16.26	9.13	7.88	14.63	10.13	18	16.88	10.25	11.79											
SPACE 13																								
LINE 3	COPY SIZE 18	COPY		E	X	I	T	↓		O	N	L	Y											
		SPACE																						
SPACE																								
LINE 4	COPY SIZE	COPY																						
		SPACE																						
SPACE																								

SIGN NO. 44b — STATION 664+30.29 — QUANTITY REQ'D 1 — OVERALL SIZE WIDTH 22 FT, HEIGHT 8.5 FT — BORDER WIDTH 2 IN, RADII 12 IN — BACKGROUND TYPE STR4, COLOR Green — LEGEND COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

Type 'A' 45° Arrows (25x25) — 144 c to c — 47.5



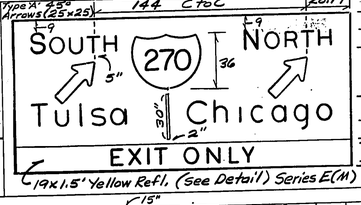
(22"x1.5" Yellow Refl. (See Detail)) Series E(M)

SPACE 12																								
LINE 1	COPY SIZE 15/12	COPY		N	O	R	T	H		270		S	O	U	T	H								
		SPACE	12	15.47	13.03	12.04	11.29	9.57	35.45	45	37.33	14.89	13.03	12.04	11.29	9.57	12							
SPACE 5																								
LINE 2	COPY SIZE 25	COPY																						
		SPACE	47.5	25	119	25	47.5																	
SPACE 2																								
LINE 3	COPY SIZE 16/12	COPY		C	h	i	c	a	g	o			M	e	m	p	h	i	s					
		SPACE	12	18	16.38	7.88	13.88	15.01	15.13	10.5	21.57	2	12	20.25	15.25	23.01	15.13	16.38	7.5	10.13	12			
SPACE 12																								
LINE 4	COPY SIZE 18	COPY		E	X	I	T		O	N	L	Y												
		SPACE	20.75				18					20.75												
SPACE																								

SIGN NO. 41b — STATION 695+80 — QUANTITY REQ'D 1 — OVERALL SIZE WIDTH 19 FT, HEIGHT 8.5 FT — BORDER WIDTH 2 IN, RADII 12 IN — BACKGROUND TYPE STR4, COLOR Green — LEGEND COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

Type 'A' 45° Arrows (25x25) — 144 c to c — 28.79



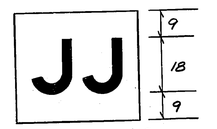
(19"x1.5" Yellow Refl. (See Detail)) Series E(M)

SPACE 12																								
LINE 1	COPY SIZE 15/12	COPY		S	O	U	T	H		270		N	O	R	T	H								
		SPACE	12	14.89	13.03	12.04	11.29	9.57	11.68	45	26.1	15.47	13.03	12.04	11.29	9.57	12							
SPACE 5																								
LINE 2	COPY SIZE 25	COPY																						
		SPACE	30.21	25	119	25	28.79																	
SPACE 2																								
LINE 3	COPY SIZE 16/12	COPY		T	u	l	s	a		I		C	h	i	c	a	g	o						
		SPACE	12	16.63	16.38	7.5	13.63	10.13	28.13	2	12.22	18	16.38	7.88	13.88	15.01	15.13	10.5	12					
SPACE 12																								
LINE 4	COPY SIZE 18	COPY		E	X	I	T		O	N	L	Y												
		SPACE	62.45				18					62.45												
SPACE																								

SIGN NO. * — STATION — — QUANTITY REQ'D 3 — OVERALL SIZE WIDTH 42" FT, HEIGHT 36" FT — BORDER WIDTH — IN, RADII — IN — BACKGROUND TYPE (SHR), COLOR White — LEGEND COPY TYPE L1, COLOR Black, BORDER TYPE None, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

SPECIAL SHIELD DETAIL



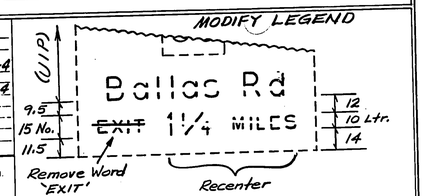
Included in price bid for Sign 409a.
18" Series E(M)

SPACE 9																								
LINE 1	COPY SIZE 18	COPY		J J																				
		SPACE	5.64	17.21	13.5	5.65																		
SPACE 9																								
LINE 2	COPY SIZE	COPY																						
		SPACE																						
SPACE																								
LINE 3	COPY SIZE	COPY																						
		SPACE																						
SPACE																								
LINE 4	COPY SIZE	COPY																						
		SPACE																						
SPACE																								

SIGN NO. 4b — STATION 617+50 — QUANTITY REQ'D 1 MOD — OVERALL SIZE WIDTH 13.5 FT, HEIGHT 10 FT — BORDER WIDTH 2 IN, RADII 12 IN — BACKGROUND TYPE STR4, COLOR Green — LEGEND COPY TYPE L2 or L4, COLOR White, BORDER TYPE L2, L4, ROUTE —, MARKER TYPE —, PANEL TYPE —, POST SIZE —

WIDTH-HORIZONTAL SPACING-INCHES END DIMENSIONS INCLUDE BORDER WIDTH & MARGIN. OTHER DIMENSIONS ARE WIDTH OF CHARACTER PLUS SPACE TO FOLLOWING CHARACTER, EXCEPT LAST CHARACTER OF EACH WORD WHICH IS WIDTH OF CHARACTER ONLY

MODIFY LEGEND



SPACE																								
LINE 1	COPY SIZE 15/10	COPY		1		1/4		M	I	L	E	S												
		SPACE	36.87	14.97	5	20	15	11.82	4.57	9.45	9.45	8	36.87											
SPACE																								
LINE 2	COPY SIZE	COPY																						
		SPACE																						
SPACE																								
LINE 3	COPY SIZE	COPY																						
		SPACE																						
SPACE																								
LINE 4	COPY SIZE	COPY																						
		SPACE																						
SPACE																								

FINAL PLANS

SIGN SHEET 18 OF 30

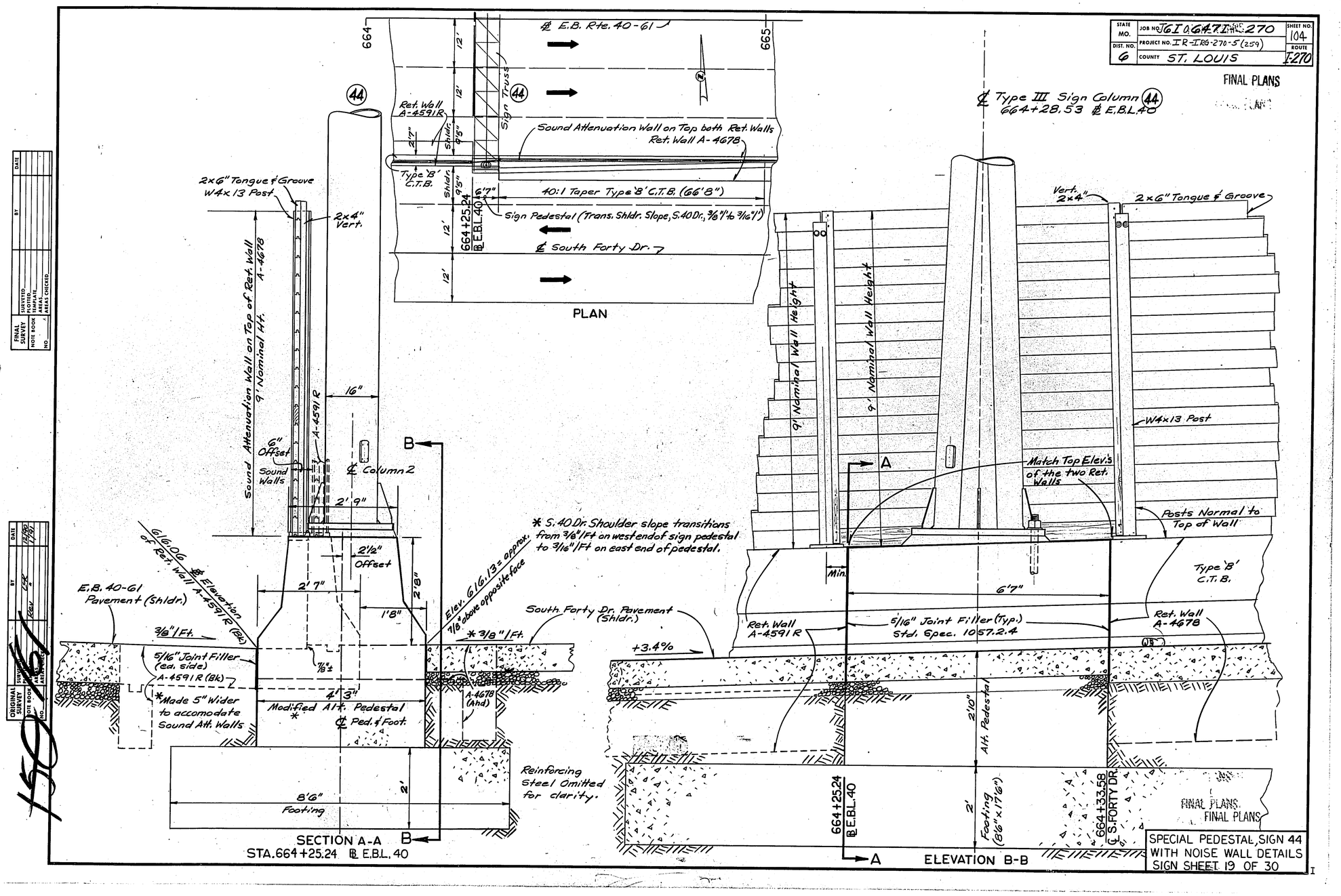
3/41 3/3

1544 24 TO 1

STATE MO.	JOB NO. J6I0647 I-270	SHEET NO. 104
DIST. NO. 6	PROJECT NO. IR-IRB-270-5(259)	ROUTE
	COUNTY ST. LOUIS	I-270

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO	FINAL AREAS		
	AREAS CHECKED		



SPECIAL PEDESTAL, SIGN 44 WITH NOISE WALL DETAILS
SIGN SHEET 19 OF 30

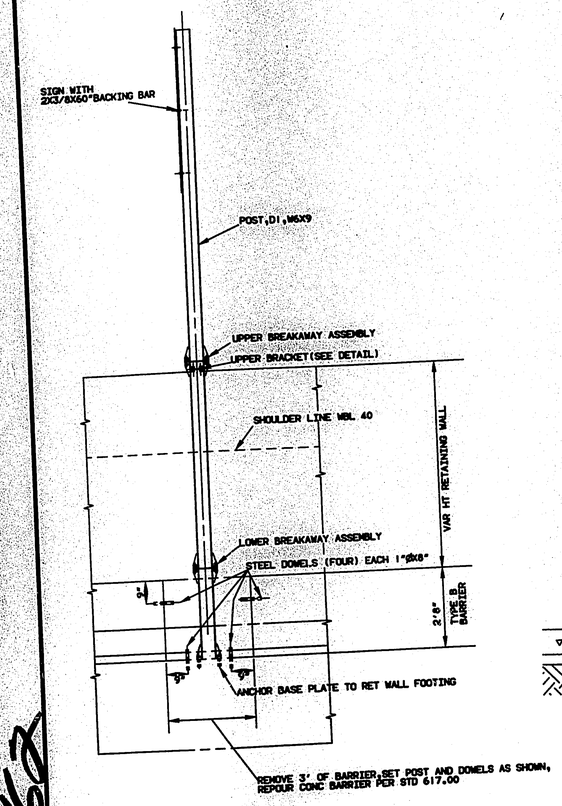
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		1/96
NO	FINAL AREAS		
	AREAS CHECKED		

1544

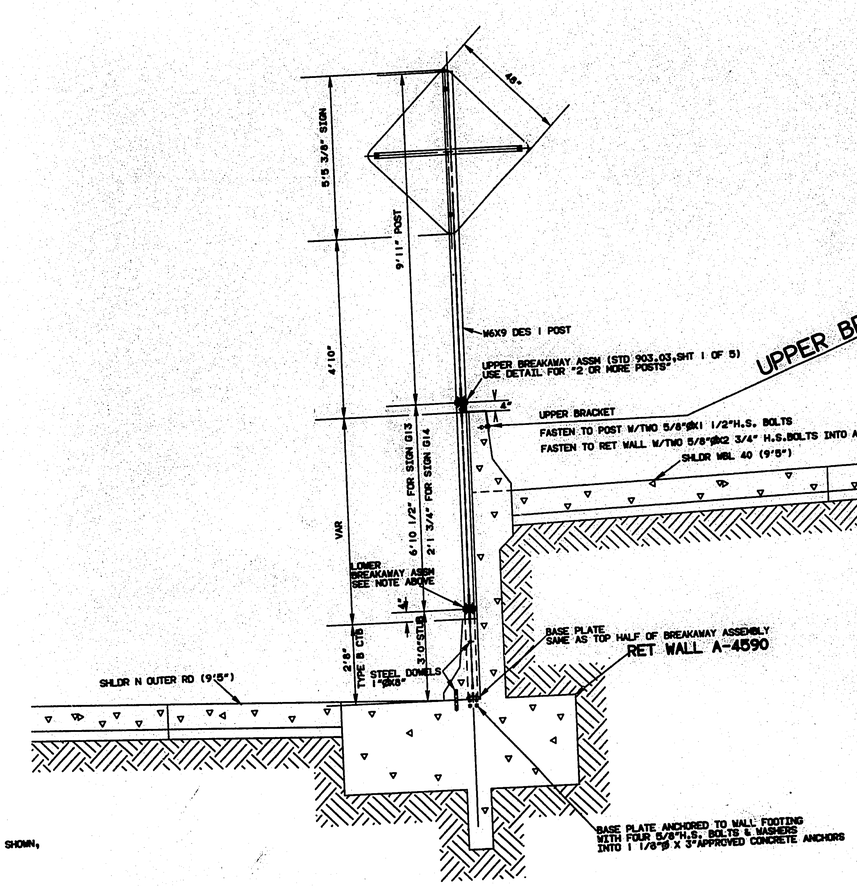
24 TO 1

FINAL PLANS

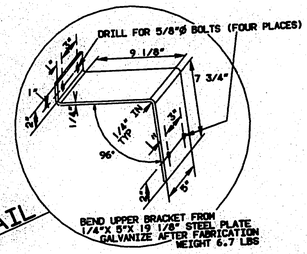
STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 105
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	



NORTH SIDE VIEW



BACK VIEW
(FACING EAST)



UPPER BRACKET DETAIL

POSTS AND BASE PLATES SHALL BE PAID FOR UNDER ITEM 903-12.10
POST LENGTHS:
SIGN G13=19'10"
SIGN G14=15'1"

EACH POST SHALL HAVE TWO BREAKAWAY ASSEMBLIES PAID FOR UNDER ITEM 903-12.40

CLASS B CONCRETE TO REPLACE TYPE B BARRIER SHALL BE PAID FOR UNDER ITEM 903-10.20 CONCRETE FOOTINGS,BOLT-DOWN

FINAL PLANS

SPECIAL MOUNTS FOR SIGNS G13 & G14

SPECIAL SHEET 20 OF 30

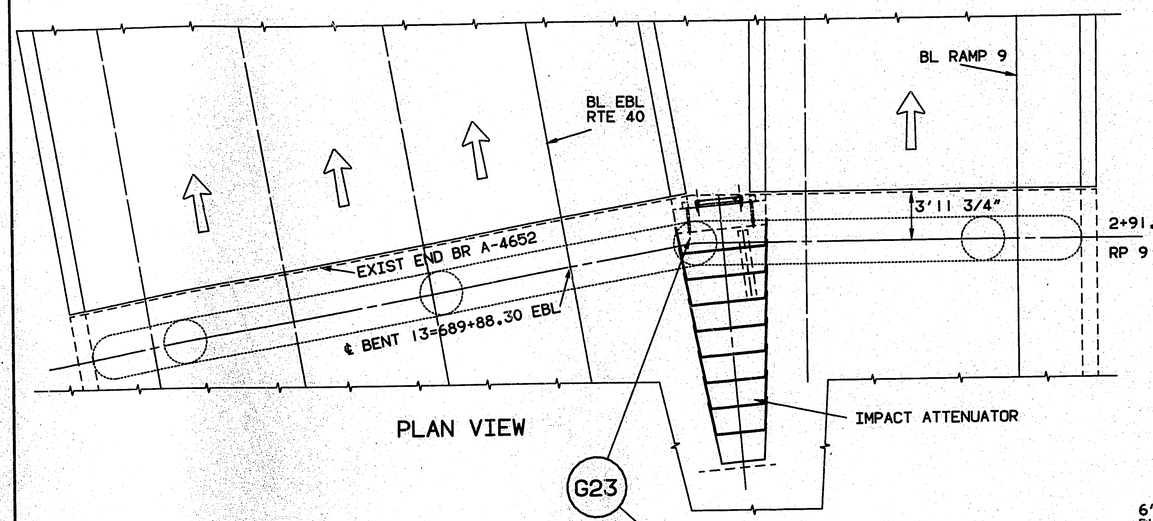
REV. 06-07

15L162

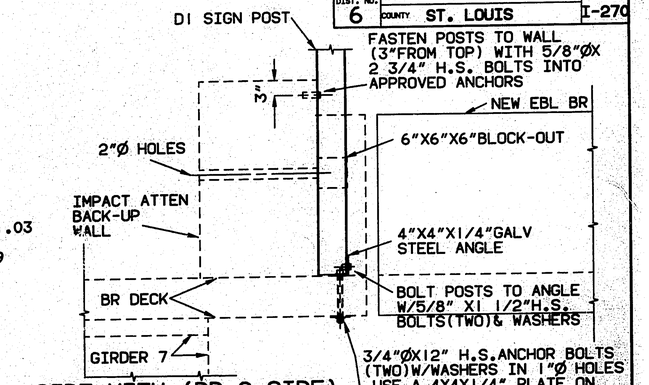
1544 24 TO 1

FINAL PLANS

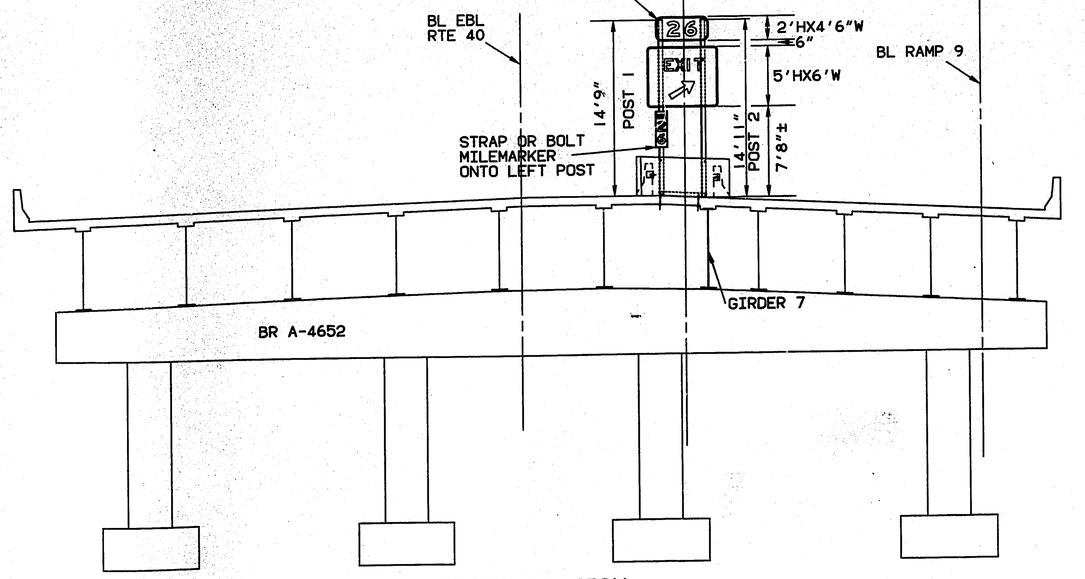
STATE	JOB NO. J6I0647I 270	SHEET NO.
MO		106
DIST. NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	I-270



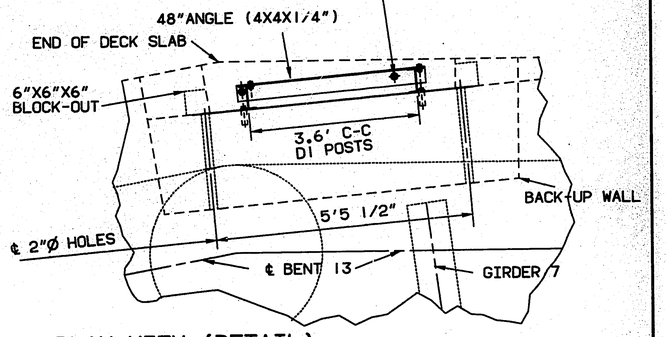
PLAN VIEW



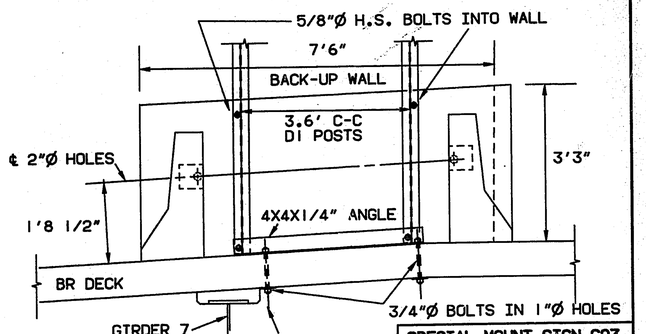
SIDE VIEW (RP 9 SIDE)



CROSS SECTION



PLAN VIEW (DETAIL)



BACK VIEW

SPECIAL MOUNT, SIGN G23 @ IMPACT ATTENUATOR
SPECIAL SHEET 21 OF 30

FINAL PLANS

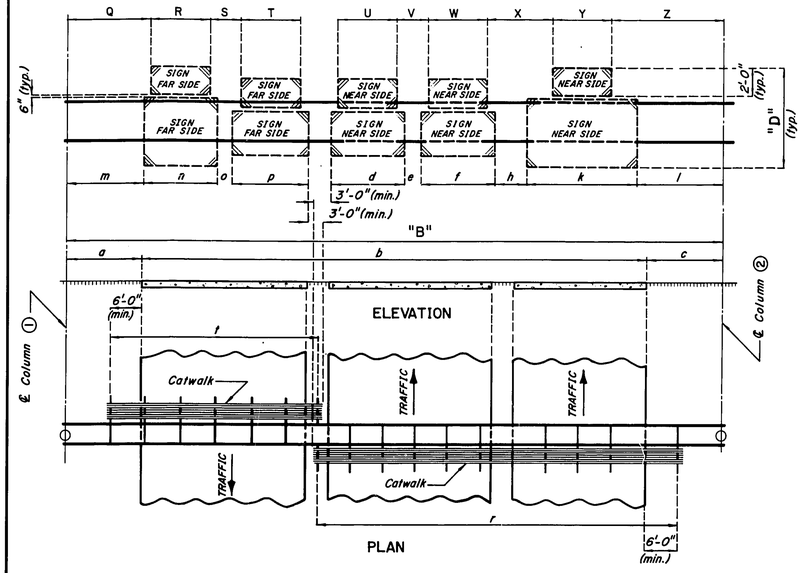
152-163

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

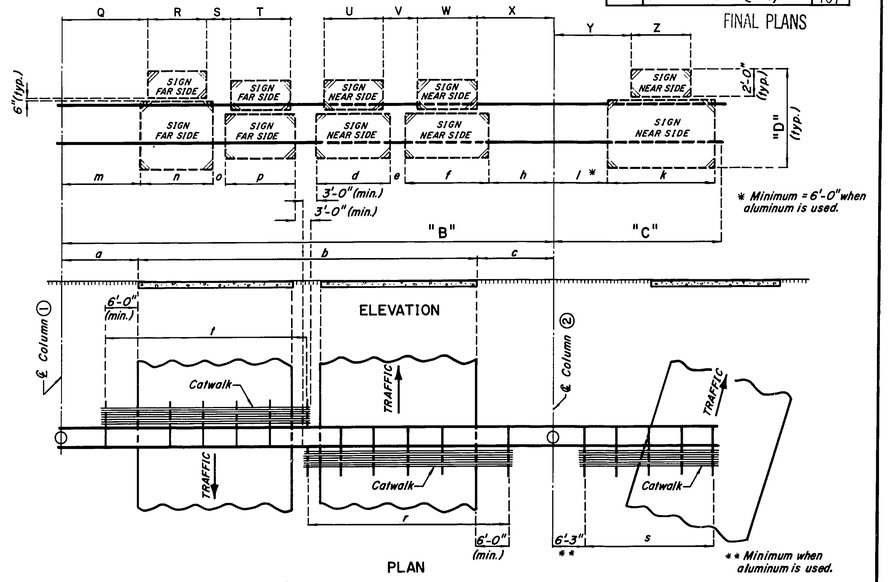
Job No J6I0647I- 270

STATE	PROJ NO	SHEET NO
MO	I-IRG-270-5(259)	107

FINAL PLANS



DIMENSIONS
TYPE 'B' SIGN BRIDGE



* Minimum = 6'-0" when aluminum is used.

** Minimum when aluminum is used.

DIMENSIONS
TYPE 'BC' SIGN BRIDGE

Note: Above minimums are recommended dimensions.

SIGN BRIDGE DIMENSIONS

250W Panel-Vue HMS Luminaires

Sign No.	Station Number	Truss Description: Type	"B"	"C"	Chord: Alum.	Chord: Steel	Roadway Description: a	b	c	"D"	Sign Spacing: Near Side: d	Ht.	e	f	Ht.	h	k	Ht.	l	Far Side: m	n	Ht.	o	p	Ht.	Catwalk ***: Near Side: r	F. Side: s	Column ①: H	Type	Column ②: H	Type	Footing & Pedestal CY Class B	Lighting Data: Power: Col. No.	Voltage	Photo-Electric Switch	⊛ ~~Mercury~~ Luminaires	⊛ ~~Light Support Extensions~~	Sign No.
23	6+50, Rp 3	B	50'	—	4"@8x¼"	4x4x⅜"	10'	24'	16'	12'6"	14'	12'6"	6"	14'	12'6"	—	—	—	13'9"	—	—	—	—	—	—	37'	—	20'4"	II	22'7"	II	27.2	1	240	—	2, CirM-3	—	23
25	16+13±, Rp 5	B	75'	—	4½@8x½"	5x5x ½"	20.7'	39.3'	15'	9'6"	13'	9'6"	8'9"	12'	9'	—	—	—	15'	—	—	—	—	—	—	51'	—	20'3"	II	6'7"	II ★	37.8	1	240	—	2, CirR-3	—	25
41	695+80, ℄40	B	80'	—	4½@8x½"	5x5x½"	4'	60'	16'	11'	13'	7'6"	14'	19'	8'6"	—	—	—	18'6"	—	—	—	—	—	—	62'	—	18'8"	II	28'	III	32.5	1	240	—	2, CirR-3	—	41
44	664+30.29, "	B	79'8"	—	4½@8x½"	5x5x½"	7'11"	60'	11'9"	11'	13'	7'6"	12'6"	22'	8'6"	—	—	—	12'9"	—	—	—	—	—	—	62'	—	18'1"	II ★	19'8"	III ★	30.0	1	240	—	2, CirW-1	—	44
85	6+30, Rp 5	B	50'	—	4"@8x¼"	4x4x⅜"	10'	24'	16"	12'6"	14'	12'6"	6"	14'	12'6"	—	—	—	13'9"	—	—	—	—	—	—	46'	—	20'4"	II	20'	II	27.4	2	240	—	2, CirN-1	—	85
4	617+50, ℄40	B	71'	—	Exist. Truss (U.I.P.)					15'6"	13'6"	10'	6"	12'6"	13'	—	—	—	15'3"	—	—	—	—	—	—	—	—	—	II	—	II	—	2	48.0 (U.I.P.)	—	2 (U.I.P. Cir)	—	4
																															Sub Total =	154.9					

SIGN BRIDGE DIMENSIONS

Sign No.	Station Number	Truss Description: Type	"B"	"C"	Chord: Alum.	Chord: Steel	Roadway Description: a	b	c	"D"	Sign Spacing: Near Side: U	V	W	X	Y	Z	Far Side: Q	R	S	T
23											—	—	—	—	—	—	—	—	—	—
25											—	—	—	—	—	—	—	—	—	—
41			See	Above							—	—	—	—	8'	24'	—	—	—	—
44			"	"							—	—	—	—	8'	19'9"	—	—	—	—
85											—	—	—	—	—	—	—	—	—	—
4											8	5'6"	8	—	—	17'6"	—	—	—	—

~~⊛ CHART FOR PLACING MERCURY LUMINAIRES~~

~~COMBINATION OR TOTAL SIGN HEIGHT~~			~~℄ LUMINAIRE TO VERTICAL SIGN SUPPORT~~
~~13'-0"~~	~~&~~	~~UNDER~~	~~4'-6¾"~~
~~13'-1"~~	~~TO~~	~~14'-0"~~	~~6'-0½"~~
~~14'-1"~~	~~TO~~	~~15'-0"~~	~~6'-9½"~~
~~15'-1"~~	~~TO~~	~~16'-0"~~	~~7'-6¼"~~
~~16'-1"~~	~~&~~	~~OVER~~	~~8'-3½"~~

⊛ Mount Panel-Vue Lamp (250W) approximately 4' horizontally from sign panel and one foot below bottom edge of panel.

*** Catwalk lengths given are the minimum lengths necessary to reach 3'-0" past all signs and 6'-0" past roadway slab. Lengths may need to be increased because end catwalk supports must be placed at a truss vertical or at a column.

OVERHEAD SIGN TRUSSES
STRUCTURAL STEEL OR ALUMINUM

DATA SHEET
(SEE STANDARD 903.10 OR 903.60)

★ Special Pedestals, See Sign X-Sec. & Spcl. Sheet.

GENERAL NOTES:

DESIGN SPECIFICATIONS: A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS -1975.

BASIC ASSUMPTIONS: WIND VELOCITY = 70 MI./HR., WIND PRESSURE ON SIGN AREA = 27 LBS./SQ. FT., ICE LOAD = 3 LBS./SQ. FT.

STRUCTURAL ALUMINUM STRESS = 10,000 LBS./SQ. IN

STRUCTURAL STEEL STRESS = 20,000 LBS./SQ. IN. (A.S.T.M. - A36)

REINFORCING STEEL STRESS = 20,000 LBS./SQ. IN.

CONCRETE CLASS "B" STRESS = 1,200 LBS./SQ. IN.

FOOTING SOIL PRESSURE = 2,750 LBS./SQ. FT.

ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 17'-6".

REINFORCEMENT: EMBEDMENT IS 2" CLEAR TO MAIN REINFORCEMENT, EXCEPT AS NOTED.

TRUSS SHALL BE ALL-WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH A.W.S. SPECIFICATIONS FOR BRIDGES AS AMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION. ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.2-83.

ALL ALUMINUM FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE SHOWN.

PAINT: ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED WITH SYSTEM A OR B IN ACCORDANCE WITH STANDARD SPECIFICATIONS 712.12 AND 903.3.4. CONTACT SURFACES OF BOLTED FIELD CONNECTIONS SHALL RECEIVE ONE COAT OF PRIMER AND SURFACES INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS OF PRIMER. COLOR OF THE FINAL FIELD COAT FOR SYSTEM B SHALL BE ALUMINUM. PAYMENT FOR CLEANING AND PAINTING WILL BE INCLUDED IN CONTRACT UNIT PRICE FOR ITEMS PAINTED. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF PAINTING. PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

ELECTRICAL: SEE STANDARD PLANS 903.09.

FINAL PLANS

SIGN SHEET 22 OF 30

MAR 1990

4/91

153.164

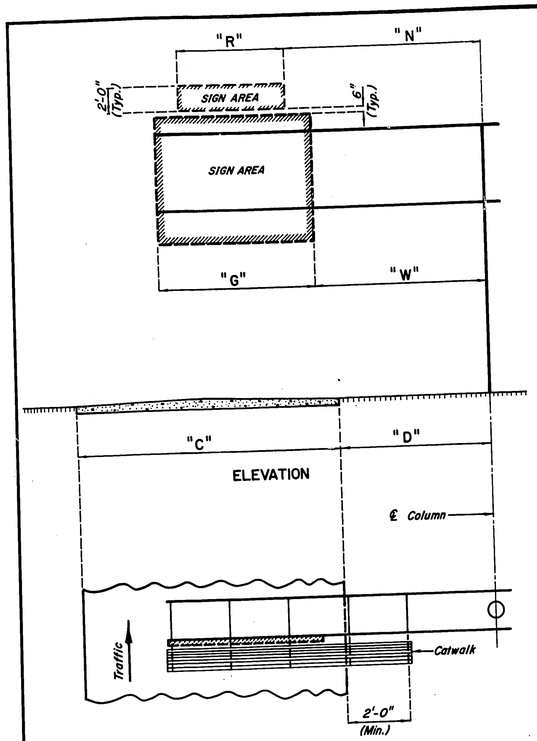
1544 24 TO 1

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

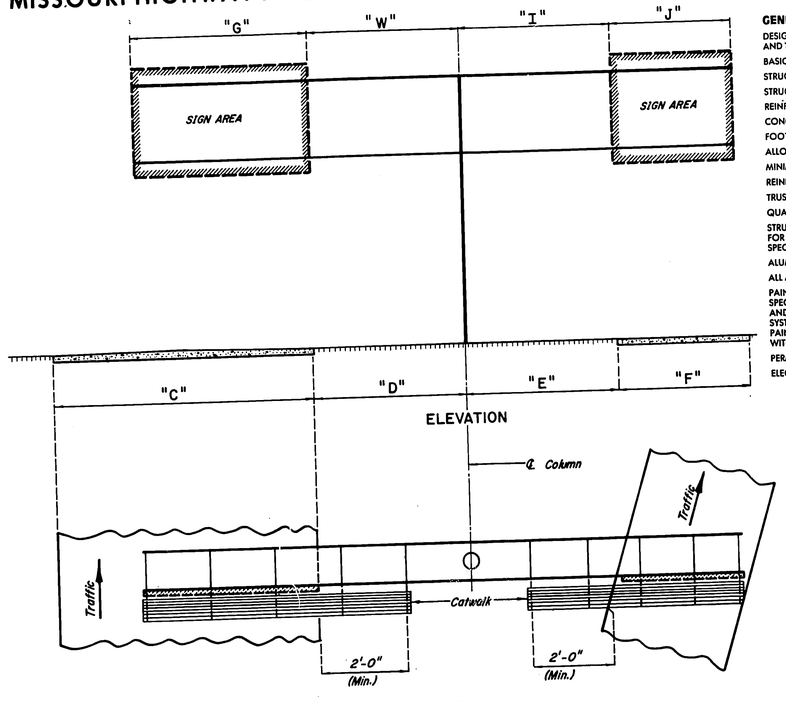
Job No. J6I0647I- 270

STATE	PROJ NO	SHEET NO
MO	IR-IRG-270-5(259)	108



PLAN

CANTILEVER OVERHEAD SIGN TRUSS



PLAN

BUTTERFLY OVERHEAD SIGN TRUSS

GENERAL NOTES:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 1975.

BASIC ASSUMPTIONS: WIND VELOCITY = 70 MI./HR., WIND PRESSURE ON SIGN AREA = 27 LBS./SQ. FT., ICE LOAD = 3 LBS./SQ. FT.

STRUCTURAL ALUMINUM STRESS = 10,000 LBS./SQ. IN.

STRUCTURAL STEEL STRESS = 20,000 LBS./SQ. IN. (A.S.T.M. - A36)

REINFORCING STEEL STRESS = 20,000 LBS./SQ. IN.

CONCRETE CLASS "B" STRESS = 1,200 LBS./SQ. IN.

FOOTING SOIL PRESSURE = 2,750 LBS./SQ. IN.

ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 17'-6".

REINFORCEMENT: EMBEDMENT IS 2" CLEAR TO MAIN REINFORCEMENT, EXCEPT AS NOTED.

TRUSS SHALL BE ALL WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH A.W.S. SPECIFICATIONS FOR BRIDGES AS AMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH PART B, SEC. 9, A.S.M.E.

ALL ALUMINUM FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE SHOWN.

PAINT: ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED WITH SYSTEM A OR B IN ACCORDANCE WITH STANDARD SPECIFICATIONS 712.12 AND 903.3.4. CONTACT SURFACES OF BOLTED FIELD CONNECTIONS SHALL RECEIVE ONE COAT OF PRIMER AND SURFACES INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS OF PRIMER. COLOR OF THE FINAL FIELD COAT FOR SYSTEM B SHALL BE ALUMINUM. PAYMENT FOR CLEANING AND PAINTING WIL. BE INCLUDED IN CONTRACT UNIT PRICE FOR ITEMS PAINTED. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF PAINTING. PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

ELECTRICAL: SEE STANDARD PLANS 903.09.

OVERHEAD SIGN DIMENSIONS

Sign No.	Station Number	Type Sign: Cant.	Type Sign: Butterfly	Col. H	Col. Type	Roadway Description: "C"	"D"	"E"	"F"	Sign Spacing: "G"	Ht.	"W"	"I"	"J"	Ht.	"R"	"N"	Catwalk * N. Side	Catwalk * F. Side	Footing & Pedestal C.Y. Class B	Lighting Data: Photo Elec. Switch	Mercury Luminaires ⊛	Power Voltage	~~Light Support Extensions ⊛~~	Sign No.
	(@ E.B. 40)																								
49	687+36.20	20'	—	25'4"	IV BC	48'±	9'±	—	—	12'	7'6"	6'7"	—	—	—	8'	8'7"	20'	—	BR. A4652	—	1	240V. Cir R3	—	49
409	676+50	30'	—	22'9"	II BC	48'	18'	—	—	12'	12'	18'	—	—	—	8'	20'	20'	—	20.9	—	1	240V. Cir V-2	—	409
																		Sub Total =		20.9		(250W Panel-Vue HMS Luminaires)			

* Catwalk lengths given are the minimum lengths necessary to reach 3'-0" past all signs and 6'-0" past roadway slab. Lengths may need to be increased because end catwalk supports must be placed at a truss vertical or at a column.

~~CHART FOR PLACING MERCURY LUMINAIRES.~~

~~COMBINATION OR TOTAL SIGN HEIGHT~~	℄ LUMINAIRE TO VERTICAL SIGN SUPPORT
~~13'-0" & UNDER~~	~~4'-6¾"~~
13'-1" TO 14'-0"	6'-0½"
~~14'-1" TO 15'-0"~~	6'-9½"
~~15'-1" TO 16'-0"~~	~~7'-6½"~~
16'-1" & OVER	8'-3½"

⊛ Mount Panel-Vue Lamp (250W) approximately 4' horizontally from sign panel and one foot below bottom edge of panel.

BUTTERFLY AND CANTILEVER OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATA SHEET (SEE STANDARD 903.12)

FINAL PLANS

SIGN SHEET 23 OF 30

MAR 1990

1544 165

1544 24 TO 1

STATE MO.	JOB NO. J6I 0647I - 270	SHEET NO. 109
DIST NO. 6	PROJECT NO. IR-IRG-270-5(25-1)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TYPICAL SECTIONS		
	AREAS		
	AREAS CHECKED		

Span = 50'

(a) 14x12.5 — 14x12.5 (b)

E — W — W — STOUT

℄ Signs 125.67

℄ Truss 125.29

Bottom Chord 122.29

℄ 1175

Column 1
Type II
H = 20.4"
(240 V. Power, Cir. N-3)

Two 250 W. Panel-Vue Lamps, one centered on (a), one on (b).

Install Truss & Signs, Cover Sign (a) for Future Use.

Column 2
Type II
H = 22'7"

Designed for 350 S.F.

℄ Rp. 3

101.96
101.76

5'6"

96.26

8x16

2'

Cable Conduit to North

(23) 6+50, Ramp 3
Overhead Truss
(Section Radial to ℄ Rp. 3)

99.71
99.51

94.01

8x16

2'

Span = 50'

14x12.5 (a) — 14x12.5 (b)

W — COVER — E — ST. L — W

℄ Signs 125.67

℄ Truss 125.29

Bottom Chord 122.29

℄ 1175

Column 1
Type II
H = 20.4"

Two 250 W. Panel-Vue Lamps, one centered on each sign.

Install Truss & Signs, Cover Sign (a) for Future Use.

Column 2
Type II
H = 20'
(240 V. Power, Cir. N-1)

New R/W

Designed for 350 S.F.

℄ Rp. 5

101.96
101.76

5'6"

96.26

8x16

2'

102.29
102.09

5'10"

96.26

8x16

2'

Cable Conduit to South

(25) 6+30, Ramp 5
Overhead Truss
(Section Radial to ℄ Rp. 5)

SIGN CROSS SECTIONS
FINAL PLANS
Sign Sheet 24 of 30
(23) (25)

I
1/1

ORIGINAL | REVISED | DATE | BY | NOTED | PLOTTED | TYPICAL SECTIONS | AREAS | AREAS CHECKED

1544 24 TO 1

STATE MO	JOB NO. JGI 0647I- 270	SHEET NO. 110
DIST. NO. 6	PROJECT NO. IR-IRG-270-5 (259)	ROUTE I270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	NOTE BOOK		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	NOTE BOOK		
	AREAS CHECKED		

1544

30'

(b) 8x12

(a) 12x12

℄ Sign 126.67

℄ Truss 126.29

1/4

Bottom Chord 123.29

One 250W. Panel-Vue Lamp centered on (a)

117.5

Column Type II BC H= 22'9" (240 V. Power, Cir. 1-2)

℄ E.B. 40

Designed for 174 S.F.

100.54
100.34

3'0"

7'2"

9x19

Cable Conduit to S.W.

℄ Rp. 1, 343.95

(409) 6'6"x50', E.B. 40 Cantilever Truss (Section Radial to ℄ E.B. 40)

99.17

A 4654

75' Span

(a) 13x9.5

(b) 12x9

(6A)

℄ Signs 124.17

℄ Truss 123.79

Bottom Chord 120.79

Column 1 Type II H= 20'3" (240 V. Power) (Cir. 2-3)

117.5

2 Panel-Vue Lamps (250W ea.) One centered on (a), one on (b).

℄ Rp. 2 2574.78

Designed for 662 S.F.

℄ Rp. 5 1641.3

Column 2 Type II H= 6'7"

5'

Perm. Esmt. (Const. & Maint.)

New R/W

114.21
114.01

116

Back fill

Pedestal

PLAN VIEW

100.54
100.34

67"

Cable Conduits to East & West

8x16

99.76

(23) 16'1 3/4" Ramp 5 Overhead Truss (Section Radial to ℄ Rp. 5)

8x16

95.26

FINAL PLANS

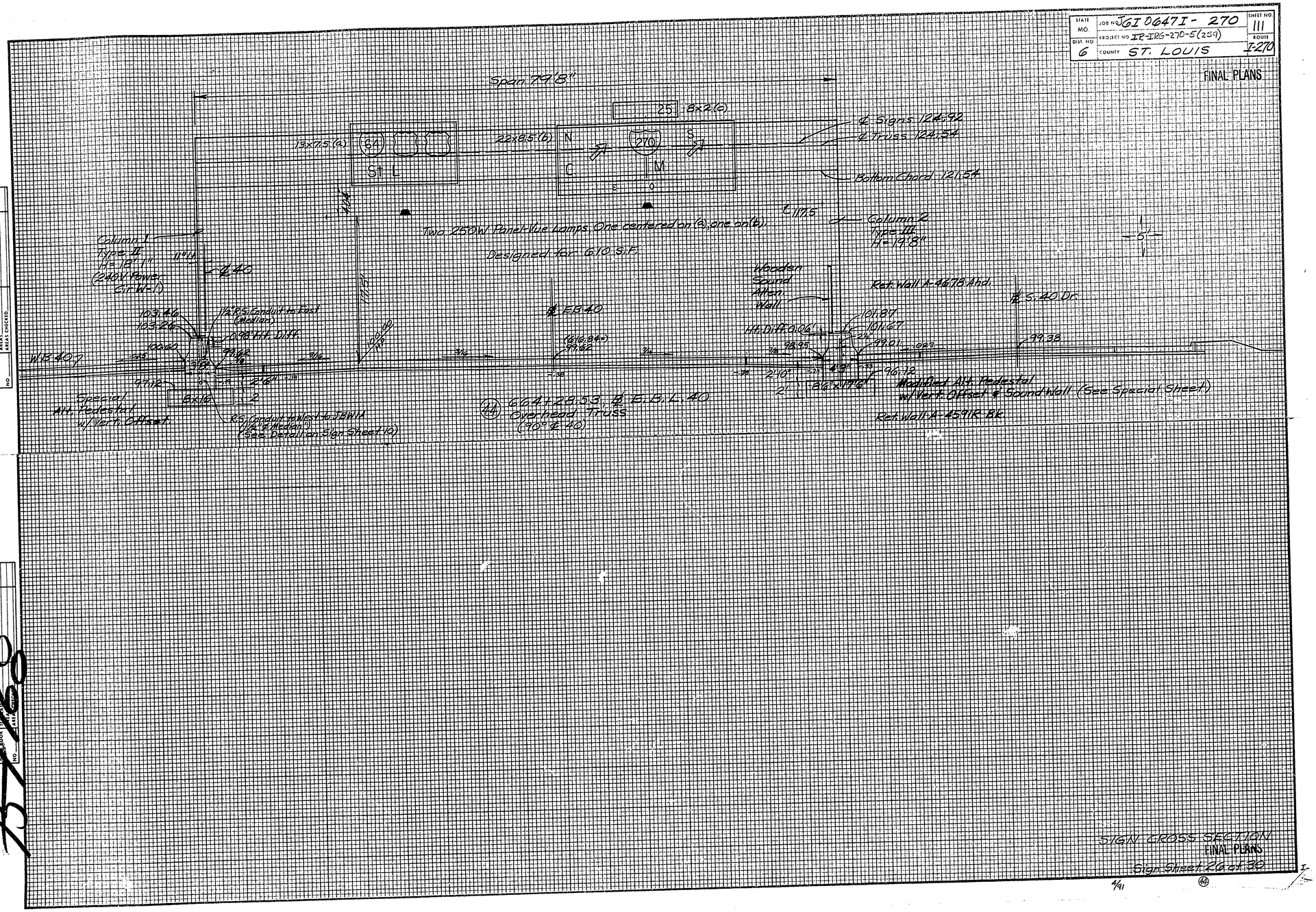
SIGN CROSS SECTIONS

Sign Sheet 25 of 30

I 2/7

STATE MO	JOB NO. J6I 0647I - 270	SHEET NO. 111
DIST NO 6	PROJECT NO IR-IRS-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS



FINAL SURVEY	DATE
PLOTTED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO	

ORIGINAL	DATE
SURVEYED	BY
PROJECTED	
LAYOUT CHKD	
NO	

SIGN CROSS SECTION
FINAL PLANS
Sign Sheet 26 of 30

4/91

1544

STATE MO.	JOB NO. J6I0647I- 270	SHEET NO. 112
DIST NO. 6	PROJECT NO. IR-IRG-270-5(25)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

Note: Sign(a) (Not Shown) was Removed on an earlier project.

Remove (c)(12.5x13)

(e) 8x2

Add Walk Panels

25

26

(f) 8x2

270

J

O

H

N

(a)

(b)

(d) 12.5x13

Move (b)

Move (d)

℄ Signs 126.37

℄ Truss 125.99

Bottom Chord 122.59

117.56

Two (250W) Panel-Vue Lamps, one centered on (b) one on (d). (Remove exist. 6 M.V. Lamps)

Designed for 395 S.F.
Built Under Proj. No. F-40-5(64)

Col. 1 — P (12)

Col. 2 (11) 480V Power (U.I.P.)

℄ Center & gap between (b)(d) 12' from Rt. Edge of Hard Surface

12'

(A) 61'-4.50 ℄ Rte. 40 - Rt.
70'-6" Existing Overhead Truss
(U.I.P.)

80' Span

(c) 8x2

25

(f) 19x8.5

19'-7.5" (c)

℄ Truss 124.54

℄ Signs 124.92

64

270

W

T

C

E

O

5'-0"

Bottom Chord 121.54 (6x6x1/2 or 7x7x7/16 L's)

117.75

7" Rt.

Two (250W) Panel-Vue Lamps, one centered on (c) one on (f)

Designed for 610 S.F.

Column 1
Type III R/H
H = 18'-8"
(240V Power)
(C.I.P. #3)

℄ 40

℄ E.B.L. 40

℄ W.B.L. 40

102.87
103.87

Cable Conduit to West

1½" P.C. Conduit (Median to East)

2'-6"

3'-2"

12

8x16

97.5

Column 2
Type III
H = 28'

(B) 695.4.80 ℄ Rte. 40 - Lt.
Overhead Truss
(Section Looking Backstation)
(90° to ℄ 40)

(U.I.P.) A-4671

93.54
93.34

Rdwy.

3'-4"

6'-3"

87.09

9'-8"x 19"

12'

SIGN CROSS SECTIONS
FINAL PLANS
Sign Sheet 27 of 30

(A) (B)

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

159

1544

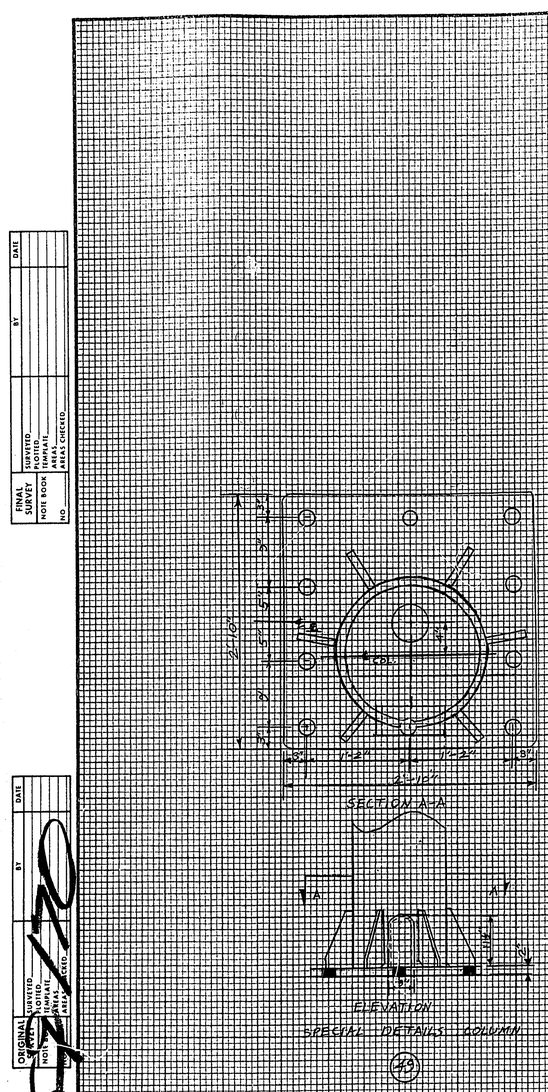
STATE	JOB NO. J6I0647I- 270	SHEET NO
MO		113
DIST NO	PROJECT NO. IR-IR6-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	I270

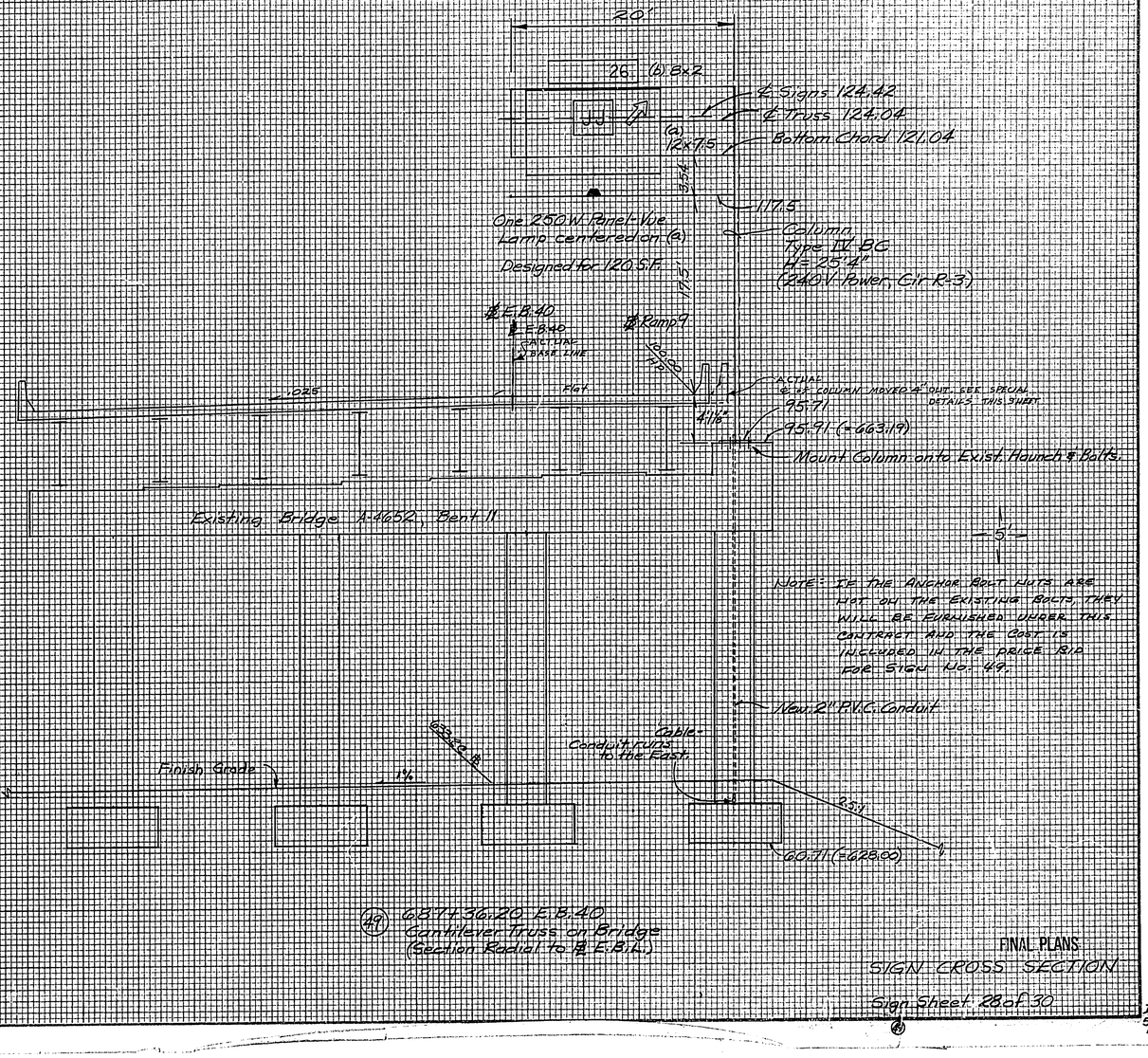
FINAL PLANS

FINAL SURVEY NOTE BOOK NO. ____ | DATE | BY | SURVEYED / PLOTTED / TOTAL AREA / AREAS CHECKED

ORIGINAL SURVEY NOTE BOOK NO. 1544 | DATE | BY | SURVEYED / PLOTTED / TOTAL AREA / AREAS CHECKED

1544 24 TO 1





FINAL PLANS
SIGN CROSS SECTION
Sign Sheet 28 of 30

I 5/1

STATE MO.	JOB NO. J6I0647I 270	SHEET NO. 114
DIST NO. 6	PROJECT NO. IR-IKK-270-5(279)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SUBMITTED	DATE
	PLOTTED	BY
NOTE BOOK	TEMPLATE	
	AREAS CHECKED	
NO		

ORIGINAL SURVEY	SUBMITTED	DATE
	PLOTTED	BY
PROFILE BY	TEMPLATE	
	AREAS CHECKED	
NO		

(9A) (9A) See Spot Sheet for Mount onto Ret. Wall

(9B) 433+74, Rt. Ramp 2 (E.B.)

(9C) 447+00, Rt. I-270 (S.B.)

(9D) 428+70±, Lt. I-270 (N.B.)

(9E) 224+40, Rt. Ramp 2 (E.B.)

(9F) 6722+52±, Lt. W.B.L. 40

(9G) 444+00, Rt. I-270 (S.B.)

(9H) 6724+33, Lt. W.B.L. 40

(9I) 427+66, Rt. I-270 (S.B.)

(9J) 24+03, Rt. Ramp B (S.B.)

(9K) 6711+50, Rt. E.B.L. 40

(9L) 24+25, Rt. Ramp B (W.B.)

(9M) 405+12, Rt. I-270 (S.B.)

(9N) 32+98, Rt. Ramp A (N.B.)

(9O) 204+47, Lt. I-270 (N.B.)

(9P) 785+00, Lt. I-270 (N.B.)

(9Q) 770+30, Lt. I-270 (N.B.)

Ground Mt. Signs Gt. 6'8"

SIGN CROSS SECTIONS
FINAL PLANS
Sign Sheet 29 of 30

I 6/96

1544

STATE MO.	JOB NO. J6I0647I 270	SHEET NO. 115
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

Ref 72

(G23) See Spoil Sheet for Mk. on Bridge

(G22) 728+80, Rt. ℄ 40 (E.B.)

(G21) 726+64, Rt. ℄ 40 (E.B.)

(G20) 721+75, Rt. ℄ 40 (E.B.)

(G51) 11+83 Rt

(G52) 11+83 Rt

(G19) 713+20, Lt. ℄ 40 (W.B.)

Ground Mt. Signs G19-G22
SIGN CROSS SECTIONS
FINAL PLANS
Sign Sheet 30 of 30

1544 24 TO 1

FINAL PLANS

STATE MO.	JOB NO. J6I0647I 270	SHEET NO. 116
DIST NO. 6	PROJECT NO. IR-IRB-270-5(259)	ROUTE I270
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TEMPLATE
	AREAS CHECKED

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TEMPLATE
	AREAS CHECKED

1544 24 TO 1

STATE MO.	JOB NO. J6I0 647I - 270	SHEET NO 117
DIST NO 6	PROJECT NO IR-IRG-270-5(259)	ROUTE I270
	COUNTY ST. LOUIS	

FINAL PLANS

I-14S
STA. 4+70, 54.5 LT. ℄ BYPASS 5
5'x3' TYPE 3-1 D.I.
WITH 1'-20" ± 2-48"
PIPE OPENINGS
D=5'-10"
CL. 3 EXC. - 40.24

I-14S TO I-15P
80'x48" CL. III R.C.P. (JACKED)

I-13P TO I-14S
55'x48" CL. III R.C.P.
CL. 3 EXC. - 395.24

I-9F TO I-10F
98'x42" CL. III R.C.P. (JACKED) & 66'x42" CL. III R.C.P.
WITH 2 F.E.S.
CL. 3 EXC. - 182.04

I-7F TO I-8F
152'x36" C.M.P. & 2 F.E.S.
CL. 3 EXC. - 578.44

I-11F TO I-12F
43'x12" C.M.P. & 2 F.E.S. (METAL)
CL. 3 EXC. - 13.04

FINAL PLANS
CULVERT SECTIONS
STAGE I SHEET 2 OF 3

ORIGINAL SURVEY — SUBMITTED — PLOTTED — TEMPLATE — INSTALL — AREAS CHECKED — NO — BY — DATE

FINAL SURVEY — NOTE BOOK — SUBMITTED — PLOTTED — TEMPLATE — INSTALL — AREAS CHECKED — NO — BY — DATE

1544 24 TO 1

STATE	JOB NO. J6I0647I-270	SHEET NO 118
MO.	PROJECT NO IR-IRS-270-5(259)	ROUTE I-270
DIST NO 6	COUNTY ST. LOUIS	

FINAL PLANS

S-5E

STA. 424+88 — 25.5' LT. & N.F.D.
3'x5' TYPE E D.I.
WITH 2 (8") PIPE OPENINGS
E=1' WEIR OPENING
D=1'-3"
*CL 3 EXC - 9 C.Y.
*(INCL. (R) OF TYPE A PIPE COLLAR E-4 L.F. @ 8'D.)

NEW D.I. (S-5SE)
STA. 425+14.4, 11.40' RT. - 25.5' LT.
3'x8' TYPE E D.I.
WITH 2 (8") PIPE OPENINGS & 1 WEIR
D=1'-3"
CL 3 EXC (OPN.) - 15 C.Y.
26 L.F. RCP
CL 3 EXC (PIPE) - 85 C.Y.

S-5E — 25.5' LT. — T=615.74 — WEIR R.G 614.91

STA. 425+09.62 — ℄ N.F.D. — S-9 EXIST. ℄ — G=617.13

EXIST. 18" RCCP (U.I.P.)

EXIST. 18" RCCP — I.E. 604.59 — R.G 604.49

TYPE 'A' PIPE COLLAR (R)

F-10 S — 40' LT.

T=619.80

STA. 22+77 ℄ RAMP C

18" RCP FROM F-10A 60.23'

R 612.0

24" C.M.P.

Σ 179 (STA. 22+90, 60' LT. ℄ RAMP C) TO Σ 145 (STA. 21+10, 59.5' LT. ℄ RAMP C)
168' x 24" C.M.P.
CL 3 EXC - 352 C.Y.

F-10 S — COVER

R 610.0 — 48" R.C.P. TO E-15P — I.E. 609.4

F-22E — 48' LT.

STA. 30+50 ℄ RAMP A

27' RT. — F-21E

G=637.70

3:1

18" R.C.P.

R 633.0

DITCH LINER (T)

I.E. 631.0

F-22E TO F-21E
76' x 18" CL III R.C.P. E 2 F.E. 3
CL 3 EXC - 35 C.Y.

STA. 3+90 ℄ RAMP A

STA. 10+90 ℄ RAMP A

T=637.08

G=634.39

F-10 P

F-22E

T=615.10

VOF

18" R.C.P.

8 W.S.

ALL PIPE TO F-11P & I.E. 610.20

T=617.70 (F-10)

75'x18" CL III RCP (JACKED)

T-10A (STA. 24+50, 60.4' ℄ RAMP C) TO T-11S (STA. 22+90, 40.4' ℄ RAMP C)
75'x18" CL III RCP (JACKED) & 72"x18" CL III RCP
CL 3 EXC - 258 C.Y.

-10-

FINAL PLANS
CULVERT SECTIONS
STAGE I SHEET 3 OF 3

FINAL SURVEY NOTE BOOK — SUBMITTED / PLOTTED / TEMPLATE / AREA'S CHECKED — NO — BY — DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREA'S CHECKED — NO — BY — DATE

764-73

1544 24 TO 1

STATE	JOB NO. J6I0647I-270	SHEET NO. 119
MO		
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	I-270

FINAL PLANS

FINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / NO — DATE / BY / AREAS CHECKED

ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / NO — DATE / BY / AREAS CHECKED

4'x2' Type A D.I. (II-1 E)
7.5' Rt. 13+75 Rp. 5 ℄
1-12" Open D=2'-0"
Cl. 3 Exc. = 5 cy.

(II-2 M) EXIST. 60" M.H. (UIP)
20' Rt. 13+76 Rp. 5 ℄

5'x12' Cl. III RCP
Cl. 3 Exc. = 21 cy.

Pg. Grade

T=642.0

5'x12' RCP E=639.97

E=639.76 (Proj.)

Exist. 18" RCP E=639.18

Exist. 30" RCP E=635.80

Exist. 24" C.I.G.M.P. E=637.00

Exist. 12" RCP E=637.00

24" F.E.S. (II-3 F)
42' Lt. 7+46 Rp. 5 ℄

E=625.33

94'x24" Cl. III RCP
Cl. 3 Exc. = 84 cy. (Includes F.E.S.)

48" M.H. (II-4 M)
14' Rt. 6+90 Rp. 5 ℄
2-24" Open D=4'-0"
Type 4 Frame & Cover
Cl. 3 Exc. = 9 cy.

T=631.24

E=622.74

T=649.0

E=658.0

L= 0.16 ft/ft

83'x24" Cl. III C.M.P.
Cl. 3 Exc. = 96 cy.

Exist. 42" M.H. (UIP) (II-3 M)
369' Lt. 4+26+15 I-270 ℄
New 24" Open Head.
Fill up Exist. 18" Open.

4'x2' B D.I. (II-11 B)
7.5' Rt. 13+05 Rp. 5 ℄
1-12" Open D=2'-0"
Cl. 3 Exc. = 4 cy.

3'x2' E D.I. (II-12 E)
11.5' Rt. 12+90 Rp. 5 ℄
2-12" Open D=4'-0"
1-Weir Open.
Cl. 3 Exc. = 6 cy.

72" M.H. (II-9 M)
15' Rt. 12+79 Rp. 5 ℄
2-15" 11-42" 1-48" Open
D=7'-0"
Cl. 3 Exc. = 22 cy.

4'x2' A D.I. (II-7 A)
7.5' Rt. 12+49 Rp. 5 ℄
2-12" Open D=2'-9"
Cl. 3 Exc. = 5 cy.

4'x2' A D.I. (II-4 A)
7.5' Rt. 12+00 Rp. 5 ℄
1-12" Open D=2'-0"
Cl. 3 Exc. = 4 cy.

Exist. D.I. (UIP) (II-8 D)
18.2' Rt. 12+58 Rp. 5 ℄

(E) 3'x2' D.I. (II-10 E)
62' Rt. 13+01 Rp. 5 ℄

72" M.H. (II-9 M)
42' Rt. 12+79 Rp. 5 ℄

(E) 3'x2' D.I.
11.5' Rt. 12+90 Rp. 5 ℄

(E) 4'x2' D.I. (II-11 B)
7.0' Rt. 13+05 Rp. 5 ℄

4'x2' D.I. (W) (II-7 A)
7.5' Rt. 12+49
Rp. 5 ℄

4'x2' D.I. (A) (II-4 A)
7.5' Rt. 12+00
Rp. 5 ℄

Route 5 ℄

42" RCP

18" RCP

48" RCP

Route 5 ℄

72" M.H. (II-9 M)
92' Lt. 12+79 Rp. 5 ℄
Install Stage II
Remove Stage III

48" F.E.S. (Smlg.) (II-8 F)

Work R. (14.16)
T=617.50

T=617.83

T=611.38

T=617.03

E=618.18

E=619.50

E=613.21

E=614.11

18.5'x12" Cl. III RCP
Cl. 3 Exc. = 4 cy.

27'x1/2" Cl. III RCP
Cl. 3 Exc. = 17 cy.
E=610.50 48" RCP (To II-22-M)
E=611.00 42" RCP (To II-9-M)

47'x12" Cl. III RCP
Cl. 3 Exc. = 19 cy.

7.5'x1/2" Cl. III RCP
Cl. 3 Exc. = 3 cy.

3'x2' E D.I. (II-10 E)
62.5' Rt. 13+01 Rp. 5 ℄
1-Weir Open D=4'-6"
1-12" CMP Open
Cl. 3 Exc. = 7 cy.

72" M.H. (II-9 M)
47' Rt. 12+79 Rp. 5 ℄
2-42" Open 1-12" CMP Open
Type 4 Frame & Cover D=15'-9"
Cl. 3 Exc. = 45 cy.

T=627.50

E=624.00

E=623.50

E=624.50

E=624.00

24'x12" C.G.M.P. Cl. III
Cl. 3 Exc. = 16 cy.

E=611.75
42" RCP (To II-3-M)

E=612.00
42" RCP (Fr. Collar)

FINAL PLANS

CULVERT SECTION

STAGE II SHEET 1 of 3

1544 24 TO 1

STATE	JOB NO J6I0647I-270
MO	
DIST NO	PROJECT NO IR-IRG-270-5(259)
6	COUNTY ST. LOUIS

FINAL PLANS

FINAL SURVEY — NOTE BOOK — NO — DATE — BY — APPROVED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO — DATE — BY — APPROVED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

(II-9 M) 72" M.H. 47' Rt. 12+79 Rp. 5 ℄ With 7-12" ℄ 2-42" Pipe Openings D=5'-9" Cl. 3 Exc.=51 cy.

Exist. 6'x4'-0" D.I. to be removed

(II-8 D) Exist. D.I. (UIP) 30.2' Rt. 12+56 Rp. 5 ℄ Cover up exist. (-39" Open) New 1-42" Open.

(II-29 M) Exist. 72" M.H. (UIP) 55.6' Lt. 13+83.36 Rp. 2 ℄

(II-27 S) 5'x2' Type S-1 D.I. 45.5' Lt. 14+00 Rp. 2 ℄ 1-18" Open. D=3'-0" Cl. 3 Exc.= 8 cy.

(II-3 M) 72" M.H. 15' Rt. 12+71 Rp. 5 ℄ With 2-18" ℄ 2-42" Open. D=7'-0" Cl. 3 Exc.=22 cy.

Exist. 42"x39" RCP (R)

39" RCP (R)

Exist. 48" RCP (UIP)

Temp. 30" Corrugated Steel Pipe

41'x48" Cl. III RCP Cl. 3 Exc.= 73 cy.

80'x42" Cl. III RCP Cl. 3 Exc.= 165 cy.

26'x42" Cl. III RCP Cl. 3 Exc.= 71 cy.

(II-28 F) 42" F.E.S. 65' Lt. 22+22 Rp. 8 ℄ Cl. 3 Exc.= 10 cy.

(II-11 F) 42" F.E.S. 57' Rt. 22+00.67 Rp. 6 ℄ Cl. 3 Exc.= 7 cy.

(II-14 F) 12" Metal F.E.S. 39' Lt. 16+45 Rp. 8 ℄ Cl. 3 Exc.= 4 cy.

(II-15 F) 12" Metal F.E.S. 72' Lt. 16+92 Rp. 8 ℄ Cl. 3 Exc.= 4 cy.

124'x49" Cl. III RCP Cl. 3 Exc.= 230 cy.

52'x12" Cl. III CMP Cl. 3 Exc.= 10 cy.

(II-30 M) Exist. 72" Precast M.H. 69.5' Lt. 20+85.0 Rp. 8 ℄ Adjust to Grade

(II-31 S) 5'x3' Type S-1 D.I. 49.5' Lt. 11+35 ℄ Rp. 2 1-24" Open. D=2'-9" Cl. 3 Exc.= 12 cy.

(II-32 F) 24" F.E.S. 52' Lt. 11+55 Rp. 2 ℄ Cl. 3 Exc.= 4 cy.

(II-33 F) 48" F.E.S. 71.4' Lt. 21+33.75 Rp. 8 ℄ Cl. 3 Exc.= 12 cy.

93'x24" Cl. III RCP Cl. 3 Exc.= 122 cy.

Old T=622.50

New T=615.25

Finished Grade

Exist. 48" RCP

Exist. 48" RCP

Paved Ditch

Ditch Liner

FINAL PLANS

CULVERT SECTION

STAGE II SHEET 2 of 3

1544

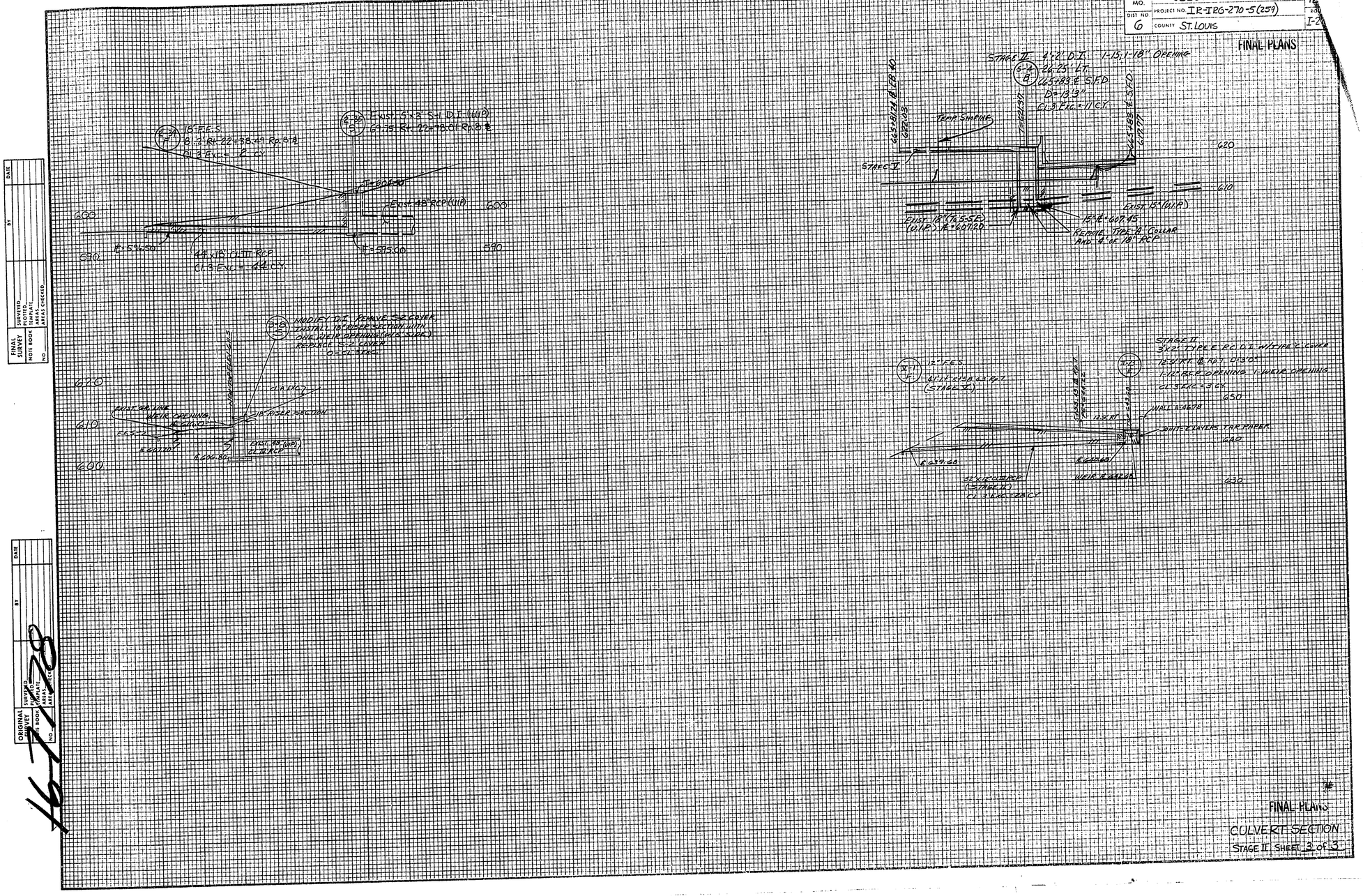
STATE MO.	JOB NO. J6I0647I-270	
DIST NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROU I-2
	COUNTY ST. LOUIS	

FINAL PLANS

FINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
	NOTE BOOK	BY
NO.	AREAS	
	AREAS CHECKED	

16178



FINAL PLANS
CULVERT SECTION
STAGE II SHEET 3 of 3

1544 24 TO 1

STATE MO.	JOB NO. J6I0647I-270	SHEET NO. 122
DIST NO. 6	PROJECT NO. IR-IR6-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

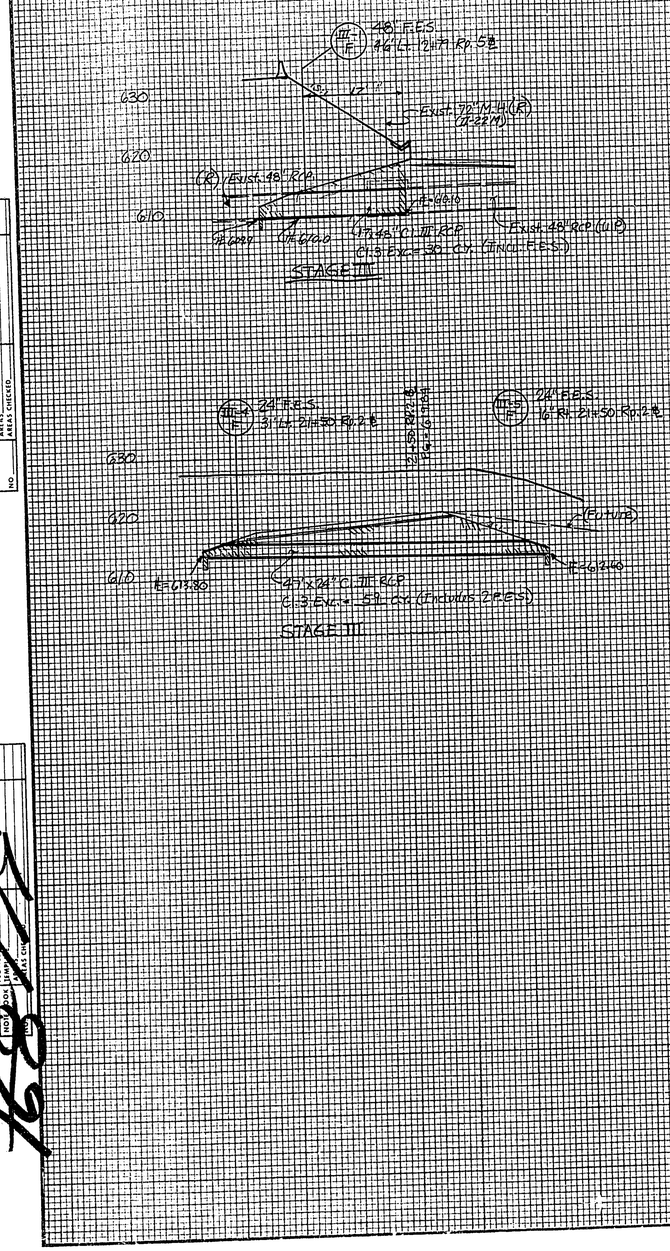
FINAL PLANS

FINAL PLANS
CULVERT SECTION
STAGE III & IV Sht 1 of 1

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	DRAWN		
	MAX CHK		

1687



1544 24 TO 1

STATE MO.	JOB NO. JGI06471	SHEET NO. 122A
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY St. Louis	

FINAL PLANS

FINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS CHECKED / NOTE BOOK / NO. / BY / DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS CHECKED / NOTE BOOK / NO. / BY / DATE

DRAIN BASIN #1

℄ WBL Sta. 688+76.54

(5-2 B) 39'-9" Rt. Sta. 688+76.54 WBL ℄
4'x2' Type 'B' D.I. d=3'
w/ 1-1/2" CGMP Opening
Grate & Bearing Plates = 370 Lbs.
Cl. 3 Exc. 71 C.Y.

39'-9" (to D.I. ℄)
36' (3-12' Lanes)
6' Shldr.
8.00%
T=666.24
IE=663.24
IE=663.23
118'x12" CGMP
Cl. 3 Exc. 54 C.Y.
IE=641.44
IE=641.43
4' Conc. Sl. Prot.
3:1
Exist. Pvd. Ditch
IE=611.48
IE=611.47

DRAIN BASIN #2

℄ WBL Sta. 675+87.67

(5-1 B) 39'-9" Rt. Sta. 675+87.67 WBL ℄
4'x2' Type 'B' D.I. d=3'
w/ 1-1/2" CGMP Opening
Grate & Bearing Plates = 370 Lbs.
Cl. 3 Exc. 7 C.Y.

39'-9" (to D.I. ℄)
36' (3-12' Lanes)
6' Shldr.
8.00%
T=658.63
Conc. (BMS) (CUD)
IE=650.63
IE=650.62
118'x12" CGMP
Cl. 3 Exc. 54 C.Y.
IE=611.48
IE=611.47
4' Conc. Sl. Prot.
3:1
Exist. Pvd. Ditch

DRAIN BASIN #3

(5-3 B) 20'-9" Lt. Sta. 124+19.00 Rp.4 ℄
4'x2' Type 'B' D.I. d=3'
w/ 1-1/2" CGMP Opening
Grate & Bearing Plates = 370 Lbs.
Cl. 3 Exc. 6 C.Y.

(5-3 B) Sta. 124+19.00 Rp.4 ℄
20'-9" (to D.I. ℄)
5' Shldr.
18' Pavmt.
8.00%
T=655.87
IE=651.84
IE=651.83
86'x12" CGMP
Cl. 3 Exc. 38 C.Y.
4' Conc. Sl. Prot.
3:1
Exist. Pvd. Ditch
IE=624.01
IE=624.00

DRAIN BASIN #4
Cooling Back Station

(5-5 B) Sta. 676+57.00 EBL ℄
41'-11" Lt. Sta. 676+57.00 EBL ℄
4'x2' Type 'B' D.I. d=3'
w/ 1-1/2" CGMP Opening
Grate & Bearing Plates = 370 Lbs.
Cl. 3 Exc. 10 C.Y.

41'-11" (to D.I. ℄)
7.3% Shldr.
36' (3-12' Lanes)
3.02%
T=655.07
65.38
IE=652.07
IE=652.06
110'x12" CGMP
Cl. 3 Exc. 45 C.Y.

(5-4 B) Rp.4 Sta. 23+63.75 Rt. ℄
20'-3" Lt. Sta. 23+63.75 Rp.4 ℄
3'x2' Type 'B' D.I. d=3
w/ 1-1/2" CGMP Opening
Grate & Bearing Plates = 280 Lbs.
Cl. 3 Exc. 6 C.Y.

20'-3" (to D.I. ℄)
18' Pavmt.
6' Shldr.
8.00%
T=638.93
IE=635.93
IE=635.82
85'x12" CGMP
Cl. 3 Exc. 37 C.Y.
4' Conc. Sl. Prot.
3:1
IE=624.01
IE=624.00
Exist. Pvd. Ditch

DRAIN BASIN #5

(5-6 F1) 118'x12" CGMP
Cl. 3 Exc. 45 C.Y.
Pvd. V. Ditch
(8:1-V=3:1-4:1')
IE=620.01
IE=620.00
Pvd. Ditch
IE=613.00

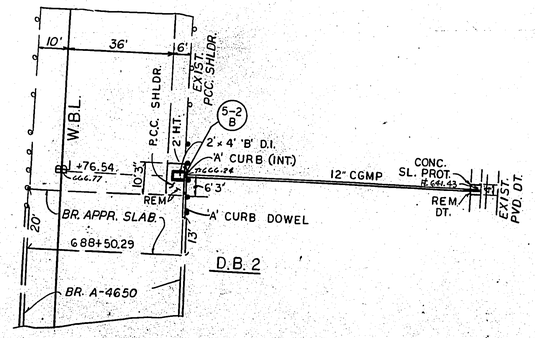
FINAL PLANS
Drainbasins
CULVERT SECTIONS
CHANGE ORDER #13
SHEET 1 OF 1

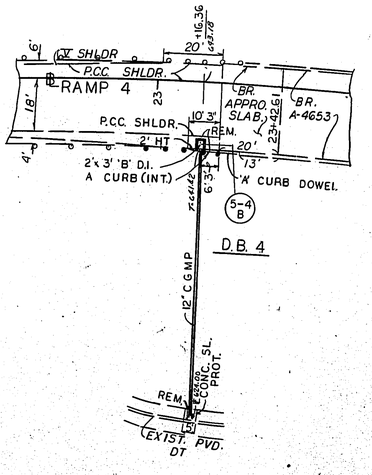
STOCKTON BLUEPRINT CO. FORM P

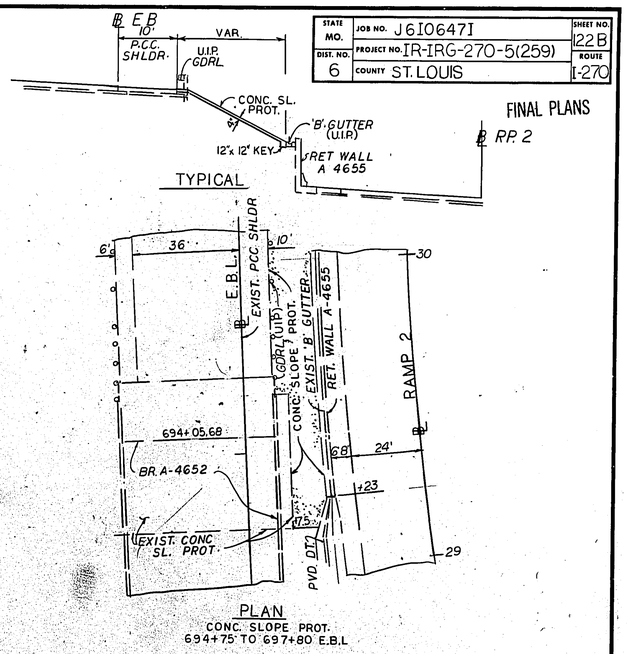
STATE MO.	JOB NO. J6I0647I	SHEET NO. 122B
DIST. NO. 6	PROJECT NO. IR-IRG-270-5(259)	ROUTE I-270
	COUNTY ST. LOUIS	

FINAL PLANS

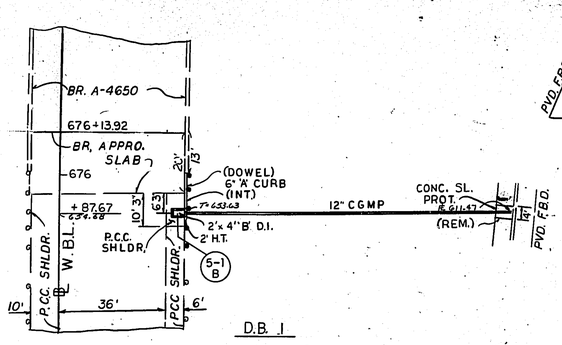
FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

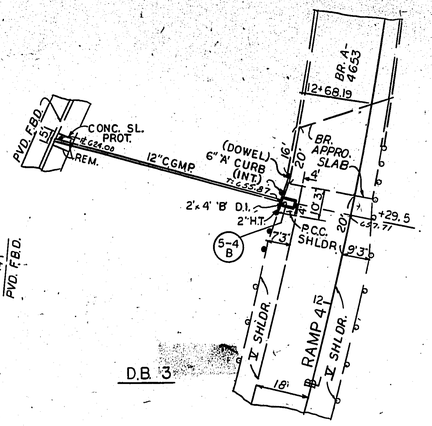


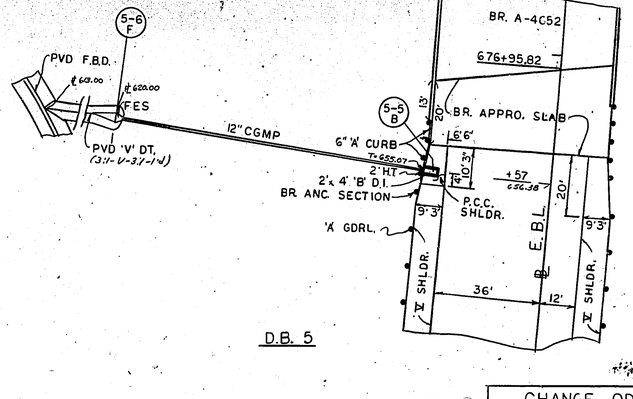




ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		





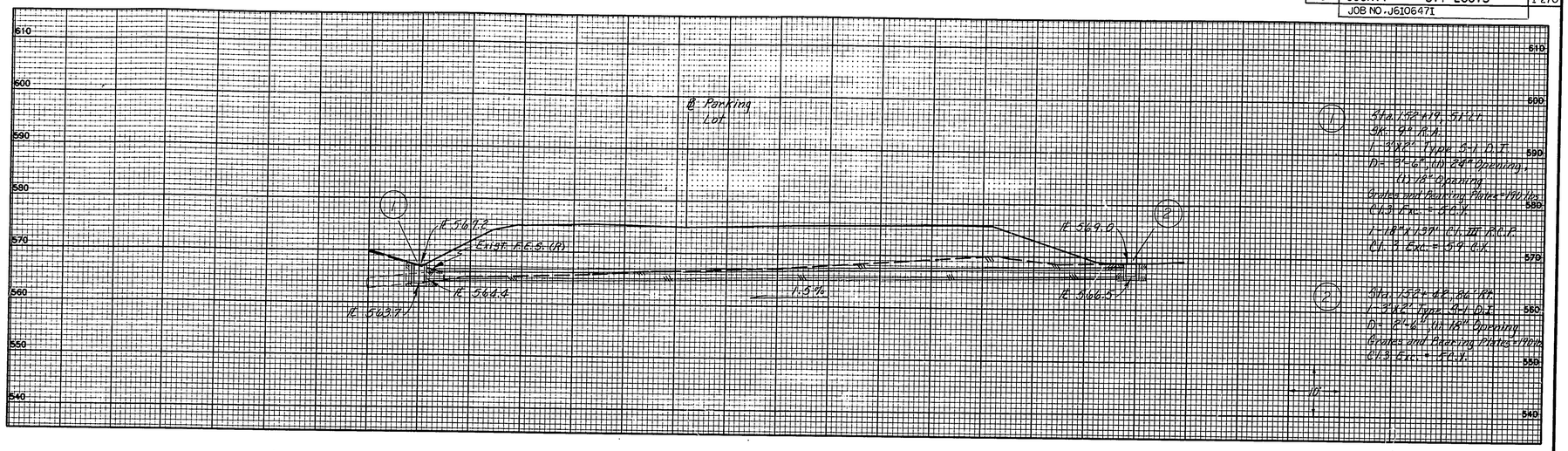


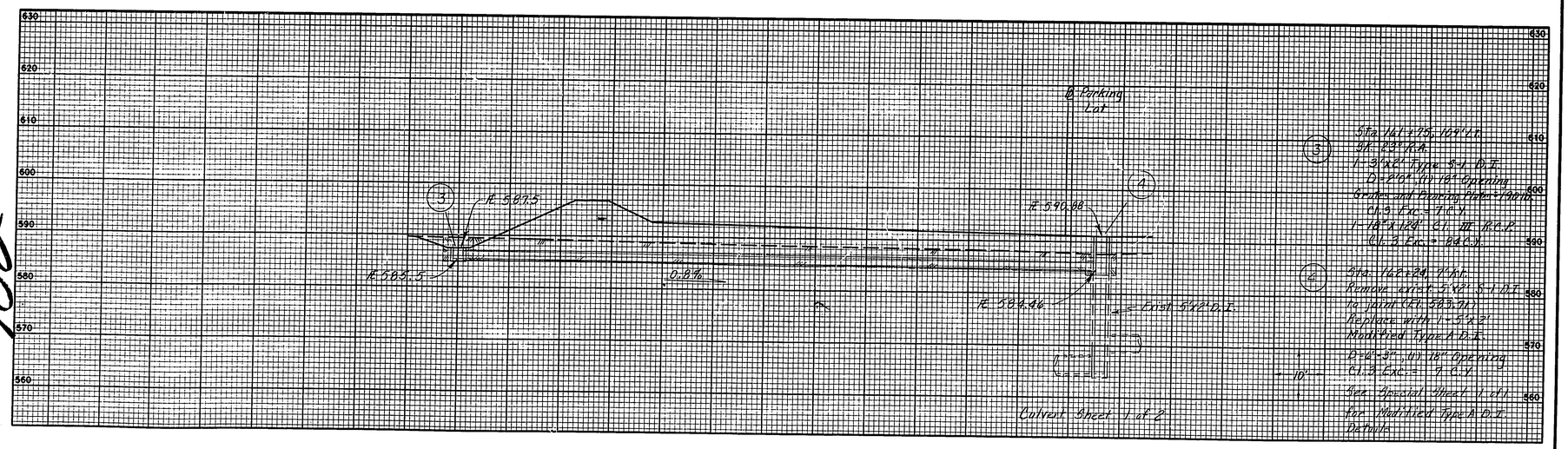
CHANGE ORDER
DRAINAGE BASINS
J6I0647I

FINAL PLANS

1544 24 TO 1

STATE	JOB NO. POOL PARKING LOT	SHEET NO.
MO		182C
DIST NO.	PROJECT NO. IR-IRG-270-5(259)	ROUTE
6	COUNTY ST. LOUIS	I-270
	JOB NO. J6I0647I	





182

REV. FORM 6-92

1544 24 TO 1

Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P

RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 4/1/2003 **SUBMITTAL YEAR :** 2002

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	1984
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45N R 5E
11	Milepoint	12.73 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	161278
30	AADT Year	2001
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	201597
115	Future AADT Year	2023

UNDERRECORD INFORMATION

6	Features Intersected	CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	02
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE CARRIED 'ON' STRUCT**			**RUN DATE :**	**4/1/2003**	**SUBMITTAL YEAR :**	**2002**

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	87.1 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	6
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	6
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	8 / 02	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** REVIEW **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 3/19/2002 **SUBMITTAL YEAR :** 2001

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	1984
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45N R 5E
11	Milepoint	12.73 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	161601
30	AADT Year	2000
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	202001
115	Future AADT Year	2022

UNDERRECORD INFORMATION

6	Features Intersected	CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	02
54A	Vert. Clearance Ref.	N/A
54B	Vert. Clearance	0 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	0.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** REVIEW **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 3/19/2002 **SUBMITTAL YEAR :** 2001

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	89.3 Percent
	Deficiency Rating	NOT APPLICABLE
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	DOES NOT MEET ACCEPT STND
67	Struc Eval App. Rating	6
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	N
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	1 BUILT UP
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	6
59	Superstructure Cond. Rating	6
60	Substructure Cond. Rating	6
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	8 / 01	
91	Gen. Insp. Frequency	12	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/26/2004 **SUBMITTAL YEAR :** 2003

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	05
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.72 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	87562
30	AADT Year	2002
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	109452
115	Future AADT Year	2024

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	02
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/26/2004 **SUBMITTAL YEAR :** 2003

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	90.7 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	6
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	6
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	8 / 02	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 2/26/2004 **SUBMITTAL YEAR :** 2003

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure	05	
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.06 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	4609
30	AADT Year	2002
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	02
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**2/26/2004**	**SUBMITTAL YEAR :**	**2003**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/17/2005 **SUBMITTAL YEAR :** 2004

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.72 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	164830
30	AADT Year	2003
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	206037
115	Future AADT Year	2025

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
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COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/17/2005 **SUBMITTAL YEAR :** 2004

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	74.7 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	8 / 04	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 2/17/2005 **SUBMITTAL YEAR :** 2004

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.06 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	4568
30	AADT Year	2003
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**2/17/2005**	**SUBMITTAL YEAR :**	**2004**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P

RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/1/2006 **SUBMITTAL YEAR :** 2005

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.72 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	166148
30	AADT Year	2004
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	207685
115	Future AADT Year	2026

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/1/2006 **SUBMITTAL YEAR :** 2005

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	74.6 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	8 / 04	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 2/1/2006 **SUBMITTAL YEAR :** 2005

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.06 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	12952
30	AADT Year	2004
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**2/1/2006**	**SUBMITTAL YEAR :**	**2005**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P

RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/16/2007 **SUBMITTAL YEAR :** 2006

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.96 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	166381
30	AADT Year	2004
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	207976
115	Future AADT Year	2027

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Structural Inventory & Appraisal Sheet

October 15, 2013
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COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/16/2007 **SUBMITTAL YEAR :** 2006

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	74.6 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	6 / 06	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 2/16/2007 **SUBMITTAL YEAR :** 2006

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.05 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	12674
30	AADT Year	2005
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**2/16/2007**	**SUBMITTAL YEAR :**	**2006**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 3/14/2008 **SUBMITTAL YEAR :** 2007

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.96 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	190368
30	AADT Year	2004
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	237960
115	Future AADT Year	2028

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	73.2 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	6 / 06	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

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GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.05 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	13442
30	AADT Year	2006
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

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LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

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1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.96 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	188473
30	AADT Year	2004
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	235591
115	Future AADT Year	2029

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

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LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	73.3 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	7 / 08	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 2/19/2009 **SUBMITTAL YEAR :** 2008

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.05 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	13118
30	AADT Year	2008
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**2/19/2009**	**SUBMITTAL YEAR :**	**2008**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 3/4/2010 **SUBMITTAL YEAR :** 2009

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.94 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	178166
30	AADT Year	2009
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	222707
115	Future AADT Year	2030

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
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COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 3/4/2010 **SUBMITTAL YEAR :** 2009

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	73.9 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	4 LOW SLUMP
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	7 / 08	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 3/4/2010 **SUBMITTAL YEAR :** 2009

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.05 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 27 M 6 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	12723
30	AADT Year	2009
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	12%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**3/4/2010**	**SUBMITTAL YEAR :**	**2009**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 1/24/2011 **SUBMITTAL YEAR :** 2010

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.96 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	176384
30	AADT Year	2010
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	220480
115	Future AADT Year	2031

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 1/24/2011 **SUBMITTAL YEAR :** 2010

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	58 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	35 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	74.0 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	6 BITUMINOUS
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	7 / 10	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 1/24/2011 **SUBMITTAL YEAR :** 2010

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.04 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	12596
30	AADT Year	2010
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**1/24/2011**	**SUBMITTAL YEAR :**	**2010**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 1/31/2013 **SUBMITTAL YEAR :** 2012

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	1984
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.96 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	199598
30	AADT Year	2012
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	249497
115	Future AADT Year	2033

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	164 Ft. 7 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	82 Ft. 3 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
51	Curb to Curb Br. Width	164 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 1/31/2013 **SUBMITTAL YEAR :** 2012

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	59 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	36 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	53.0 Percent
	Deficiency Rating	STRUCTURAL
	Funding Eligibility	PARTIAL
75A	Proposed Work	REHAB-GENERAL DETERIORAT
75B	Work Done By	Contract
76	New Struc Length	213 Ft. 2 In.
94	Struc Improve Cost	$ 2,172,000
95	Roadway Improve Cost	$ 217,000
96	Total Project Cost	$ 3,258,000
97	Year of Cost Estimates	2013

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	4
68	Deck Geometry App. Rating	6
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	6 BITUMINOUS
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	4
59	Superstructure Cond. Rating	4
60	Substructure Cond. Rating	6
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	10 / 12	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 1/31/2013 **SUBMITTAL YEAR :** 2012

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.04 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	12053
30	AADT Year	2012
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**APPROVED**	**NBI STATUS :**	**P**
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**1/31/2013**	**SUBMITTAL YEAR :**	**2012**

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P

RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/23/2012 **SUBMITTAL YEAR :** 2011

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	2004
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	12.96 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	174620
30	AADT Year	2011
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	218275
115	Future AADT Year	2032

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.62 miles
32	Approach Roadway Width	127 Ft. 11 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	84 Ft. 7 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	0 Ft. 7 In.
50B	Right Curb/Sidewalk Width	0 Ft. 7 In.
51	Curb to Curb Br. Width	166 Ft. 7 In.
52	Deck Width (Out-Out)	169 Ft. 6 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 2/23/2012 **SUBMITTAL YEAR :** 2011

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	A - OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	59 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	36 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	74.2 Percent
	Deficiency Rating	NOT DEFICIENT
	Funding Eligibility	
75A	Proposed Work	
75B	Work Done By	
76	New Struc Length	0 Ft. 0 In.
94	Struc Improve Cost	$ 0,000
95	Roadway Improve Cost	$ 0,000
96	Total Project Cost	$ 0,000
97	Year of Cost Estimates	0

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	9
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	6 BITUMINOUS
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	5
59	Superstructure Cond. Rating	5
60	Substructure Cond. Rating	7
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	7 / 10	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** APPROVED **NBI STATUS :** P
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 2/23/2012 **SUBMITTAL YEAR :** 2011

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.04 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	11967
30	AADT Year	2011
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 6 In.
48	Maximum Span Length	67 Ft. 10 In.
49	Structure Length	179 Ft. 0 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	ST. LOUIS	**BRIDGE NO.**	A1052 2	**REVIEW STATUS :**	APPROVED
RECORD TYPE :	ROUTE 'UNDER' STRUCT			**RUN DATE :**	2/23/2012
NBI STATUS :	P			**SUBMITTAL YEAR :**	2011

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** REVIEW **NBI STATUS :** T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 10/3/2013 **SUBMITTAL YEAR :** 2013

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	1984
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	IS
5C	Designated Level of Service	MAINLINE
5D	Route Number	00270
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	IS 270 E
12	Base Hwy. Network	YES
13A	LRS Inventory Route No.	0000006135
13B	Subroute No.	00
20	Toll Status	ON FREE ROAD
26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
28A	Lanes on Structure	
100	STRAHNET Designation	ON A DEFENSE HWY
104	National Highway System	ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	YES

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	13.06 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	199598
30	AADT Year	2012
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	11%
114	Future AADT	249497
115	Future AADT Year	2033

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	HIGHWAY
54B	Vert. Clearance	14 Ft. 0 In.
55A	Rt. Lat Clear Ref.	HIGHWAY
55B	Rt. Lat Clearance	13 Ft. 5 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	N/A
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	0.63 miles
32	Approach Roadway Width	164 Ft. 8 In.
34	Skew	38.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	82 Ft. 4 In.
48	Maximum Span Length	67 Ft. 11 In.
49	Structure Length	179 Ft. 2 In.
50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
51	Curb to Curb Br. Width	164 Ft. 8 In.
52	Deck Width (Out-Out)	169 Ft. 7 In.
53	Vert.Clearance Over Deck	99 Ft. 99 In.

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

October 15, 2013
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COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** REVIEW **NBI STATUS :** T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT **RUN DATE :** 10/3/2013 **SUBMITTAL YEAR :** 2013

LOAD RATING AND POSTING INFORMATION

31	Design Load	HS 20+MOD
41	Structure Status	OPEN NO RESTRICTIONS
63	Oper. Rating Meth.	ALLOWABLE STRESS
64	Operating Rating	59 Tons.
65	Inventory Rating Meth	ALLOWABLE STRESS
66	Inventory Rating	36 Tons.
70	Bridge Posting Code	=>LEGAL LOADS

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating	53.0 Percent
	Deficiency Rating	STRUCTURAL
	Funding Eligibility	PARTIAL
75A	Proposed Work	REHAB-GENERAL DETERIORAT
75B	Work Done By	Contract
76	New Struc Length	213 Ft. 3 In.
94	Struc Improve Cost	$ 2,172,000
95	Roadway Improve Cost	$ 217,000
96	Total Project Cost	$ 3,258,000
97	Year of Cost Estimates	2013

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	4
68	Deck Geometry App. Rating	6
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N
72	Approach Road App. Rating	8
113	Scour Assess App. Rating	N

APPROVED POSTING INFORMATION

Approved Posting Categor S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	3
44A	Appr Struc. Mat type	000
44B	Appr Struc. Cnstr. type	000
46	# of Approach Span	0
107	Deck Mat/Constr.	1 CONCRETE CIP
108A	Wear Surf Mat/Constr.	6 BITUMINOUS
108B	Membrane Mat/Constr.	0 NONE
108C	Deck Protect Mat/Constr.	0 NONE

CONDITION RATING INFORMATION

58	Deck Cond. Rating	4
59	Superstructure Cond. Rating	4
60	Substructure Cond. Rating	6
61	Channel /Channel Protection Cond. Rating	N
62	Culvert Cond. Rating	N

INSPECTION INFORMATION

90	Gen. Insp Date	10 / 12	
91	Gen. Insp. Frequency	24	Months
92A	Frac. Critical Insp. Dat	N	Months
93A	Frac. Critical Insp. Date		
92B	Underwater Inspection	N	Months
93B	Underwater Insp. Date		
92C	Special Inspection	N	Months
93C	Special Inspection Date		

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

FIELD POSTING INFORMATION

Field Posting Category S-1

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

NO POSTING REQUIRED

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Structural Inventory & Appraisal Sheet

October 15, 2013
9:22:40am

COUNTY : ST. LOUIS **BRIDGE NO.** A1052 2 **REVIEW STATUS :** REVIEW **NBI STATUS :** T
RECORD TYPE : ROUTE 'UNDER' STRUCT **RUN DATE :** 10/3/2013 **SUBMITTAL YEAR :** 2013

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SL
3	County	ST. LOUIS
8	Federal ID No.	850
27	Year Built	1964
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	
22	Structure Owner	
33	Br. Median Code	
37	Historical Significance	
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE 'UNDER' STRUCT	Code : 2
5B	Route Signing Prefix	CST	
5C	Designated Level of Service	MAINLINE	
5D	Route Number	00000	
5E	Directional Suffix	NOT APPLICABLE	
7	Facility Carried	IS 270 E	
12	Base Hwy. Network		
13A	LRS Inventory Route No.		
13B	Subroute No.		
20	Toll Status	ON FREE ROAD	
26	Functional Classification	17-URBAN COLLECTOR	
28A	Lanes on Structure		
100	STRAHNET Designation	RTE NOT A DEFENSE HWY	
104	National Highway System	NOT ON NHS	
105	Federal Lands Highway		
110	Designated Nat. Network	NO	

STRUCTURE LOCATION INFORMATION

4	Place	WESTWOOD VILLAGE
	Code	79054
9	Location	S 15 T 45 N R 5 E
11	Milepoint	6.09 miles
16	Latitude	38 D 38 M 36 S
17	Longitude	90 D 26 M 57 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	12053
30	AADT Year	2012
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	10%
114	Future AADT	
115	Future AADT Year	

UNDERRECORD INFORMATION

6	Features Intersected	CST CONWAY RD
42B	Type of Service Under	HIGHWAY
28B	Lanes Under Structure	03
54A	Vert. Clearance Ref.	
54B	Vert. Clearance	
55A	Rt. Lat Clear Ref.	
55B	Rt. Lat Clearance	
56	Left Lat Clearance	
38	Navigation Control	
39	Nav Vertical Clear	
40	Nav Horizontal Clear	
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	14 Ft. 0 In.
19	By pass Detour Length	0.00 miles
32	Approach Roadway Width	
34	Skew	
35	Struct. Flared	
47	Total Horiz. Clear	48 Ft. 7 In.
48	Maximum Span Length	67 Ft. 11 In.
49	Structure Length	179 Ft. 2 In.
50A	Left Curb/Sidewalk Width	
50B	Right Curb/Sidewalk Width	
51	Curb to Curb Br. Width	
52	Deck Width (Out-Out)	
53	Vert.Clearance Over Deck	

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

COUNTY :	**ST. LOUIS**	**BRIDGE NO.**	**A1052 2**	**REVIEW STATUS :**	**REVIEW**
NBI STATUS :	**T**				
RECORD TYPE :	**ROUTE 'UNDER' STRUCT**			**RUN DATE :**	**10/3/2013**
SUBMITTAL YEAR :	**2013**				

LOAD RATING AND POSTING INFORMATION

31	Design Load
41	Structure Status
63	Oper. Rating Meth.
64	Operating Rating
65	Inventory Rating Meth
66	Inventory Rating
70	Bridge Posting Code

PROPOSED IMPROVEMENT INFORMATION

	Sufficiency Rating
	Deficiency Rating
	Funding Eligibility
75A	Proposed Work
75B	Work Done By
76	New Struc Length
94	Struc Improve Cost
95	Roadway Improve Cost
96	Total Project Cost
97	Year of Cost Estimates

APPRAISAL RATING INFORMATION

36A	Br. Rail App. Rating
36B	Transition Rail App. Rating
36C	Approach Rail App. Rating
36D	Rail End Treat. App. Rating
67	Struc Eval App. Rating
68	Deck Geometry App. Rating
69	Underclearance App. Rating
71	Waterway Adeq. App. Rating
72	Approach Road App. Rating
113	Scour Assess App. Rating

MATERIAL/CONSTRUCTION INFORMATION

43A	Main Struc. Mat type	CONCRETE CONTINUOUS
43B	Main struc Constr. Type	SLAB
45	# of Main Spans	
44A	Appr Struc. Mat type	
44B	Appr Struc. Cnstr. type	
46	# of Approach Span	
107	Deck Mat/Constr.	
108A	Wear Surf Mat/Constr.	
108B	Membrane Mat/Constr.	
108C	Deck Protect Mat/Constr.	

CONDITION RATING INFORMATION

58	Deck Cond. Rating
59	Superstructure Cond. Rating
60	Substructure Cond. Rating
61	Channel /Channel Protection Cond. Rating
62	Culvert Cond. Rating

INSPECTION INFORMATION

90	Gen. Insp Date
91	Gen. Insp. Frequency
92A	Frac. Critical Insp. Dat
93A	Frac. Critical Insp. Date
92B	Underwater Inspection
93B	Underwater Insp. Date
92C	Special Inspection
93C	Special Inspection Date

BORDER BRIDGE INFORMATION

98	Neighboring State Code
98B	Neighboring State % Respon
99	Neighboring State Struc. No.

APPROVED POSTING INFORMATION

Approved Posting Categor

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

FIELD POSTING INFORMATION

Field Posting Category

Ton1 Ton2 Ton3

Tonnage Values for Posting Sign

General Text for Posting Sign

County = ST. LOUIS and Design_No = A1052 and Structure_Type = STATE SYSTEM BRIDGE and District = SL

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