

## **DISTRICT OFFICES**

### SL District

Thomas Blair, PE – District Engineer  
Missouri Department of Transportation  
1590 Woodlake Drive  
Chesterfield, MO 63017

### Contact

Dan Savageau, PE – Project Manager  
314-453-5089  
Daniel.Savageau@modot.mo.gov  
**Email responses are required.**

**District SL**


<b>St. Louis County, Route 180</b>	
<b>Job No:</b>	J6S3311
<b>Location:</b>	Route 180 at the I-70 interchange
<b>Proposed Improvement:</b>	Replace Route 180 Bridge (L0887) over I-70 and ADA Improvements
<b>Length:</b>	0.1 miles
<b>Approximate Construction Cost:</b>	\$20,910K
<b>DBE Goal (if applicable)</b>	0%
<b>Consultant Services Required:</b>	<p>Conceptual report, preliminary and final design services (bridge and roadway), including the final PS&amp;E package for new bridge and improvements on Route 180 over I-70. At minimum, extending the acceleration lanes from the loop ramps to I-70 will be included in the design. Additional improvements to I-70 may be included as part of the final PS&amp;E package as part of a Supplemental.</p> <p>Surveying (boundary and utility) and utility coordination services will be required.</p> <p>Geotechnical services will be required.</p> <p>Anticipated Timeline:  Consultant Selected: 03/04/26  Contract Negotiated by 06/12/26  Final PS&amp;E due: March 2028  Letting: June 2028</p>
<b>Other Comments:</b>	<p>No interviews/presentations will be required for selection.</p> <p>Please see the following link to MoDOT's I-70 Corridor Study:  <a href="https://www.modot.org/projects/i-70-stl-conceptual-study">https://www.modot.org/projects/i-70-stl-conceptual-study</a></p> <p>Attachments Included within Solicitation:  -Existing Bridge Plans L0887  -Conceptual Plan from I-70 Study  -As-builts related to Utilities (MOAW &amp; MSD)</p>

**Rating Criteria w/Weighted Values**

Project Understanding & Innovation	25 Points Max
Past Performance	25 Points Max
Qualifications of Personnel Assigned	20 Points Max
General Experience of Firm	10 Points Max
Familiarity/Capability	10 Points Max
Accessibility of Firm & Staff	<u>10 Points Max</u>
	100 Points Max Total



MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



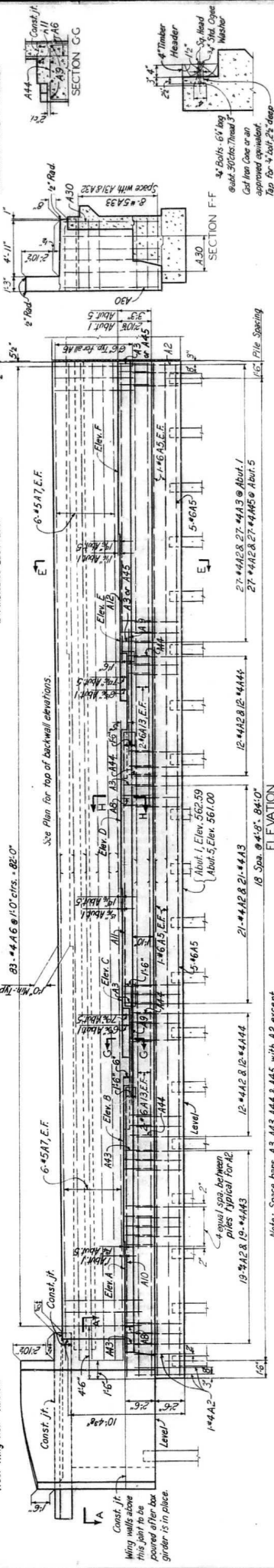
1-888-ASK-MODOT (1-888-275-6636)  
JEFFERSON CITY, MO 65102  
105 WEST CAPITOL

# HNTH

008 PN 05 J613660 I200 Segment1.dgn 4:05:08 PM 12/10/2025







NOTES

SECTION H-H  
Showing typical A8 bar  
which will be placed under  
each bearing plate.

SECTION D-D

SECTION A-A

PLAN OF WING WALL  
East Wing Wall-About 1.50mm

ST. LOUIS COUNTY

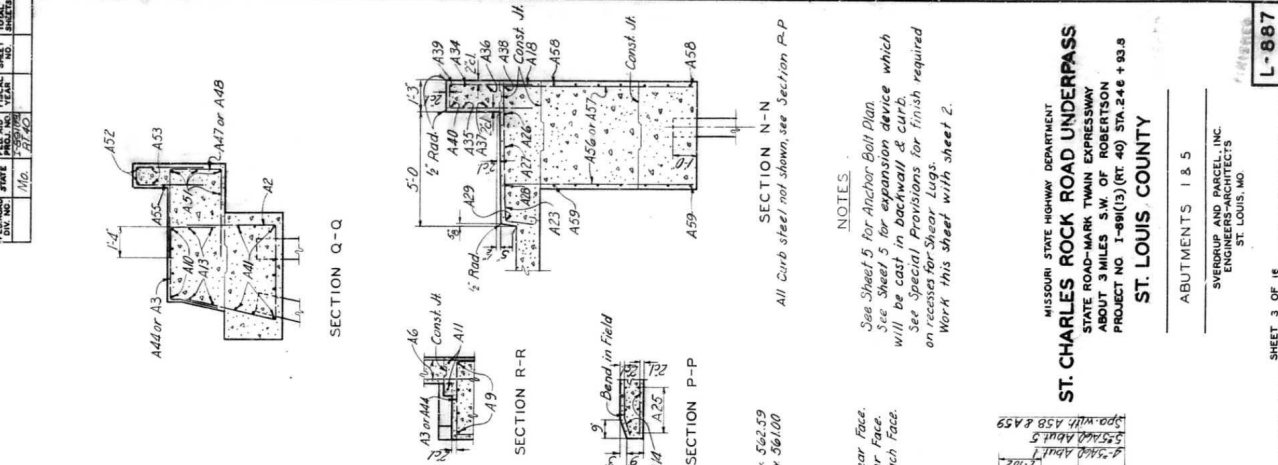
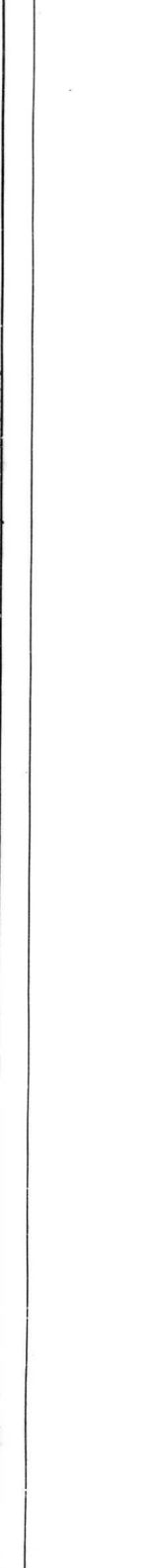
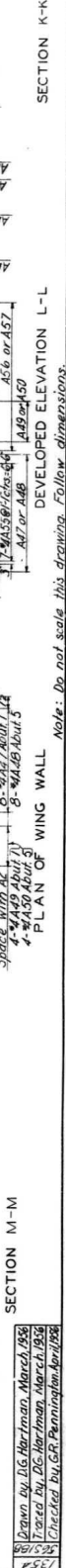
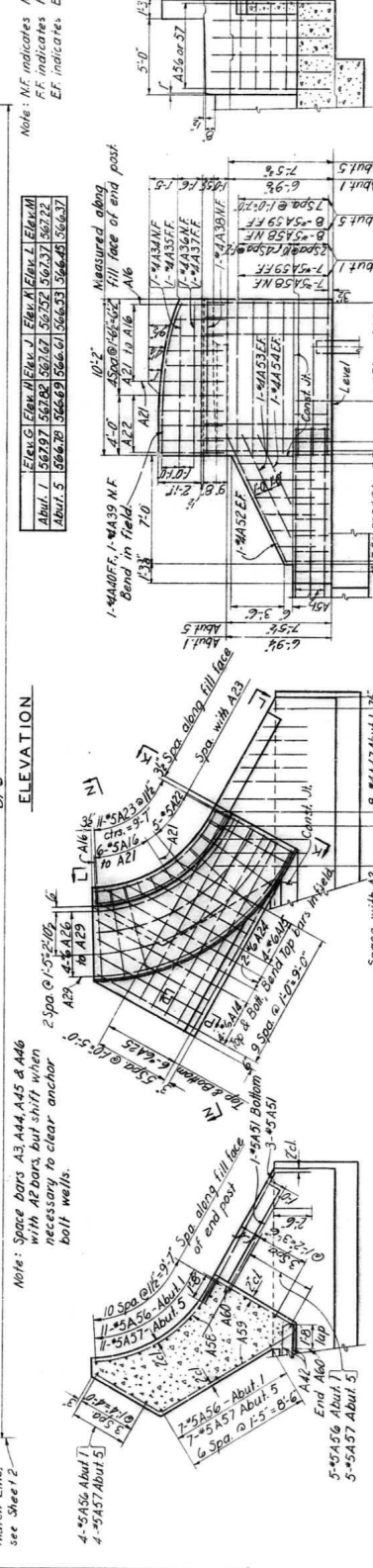
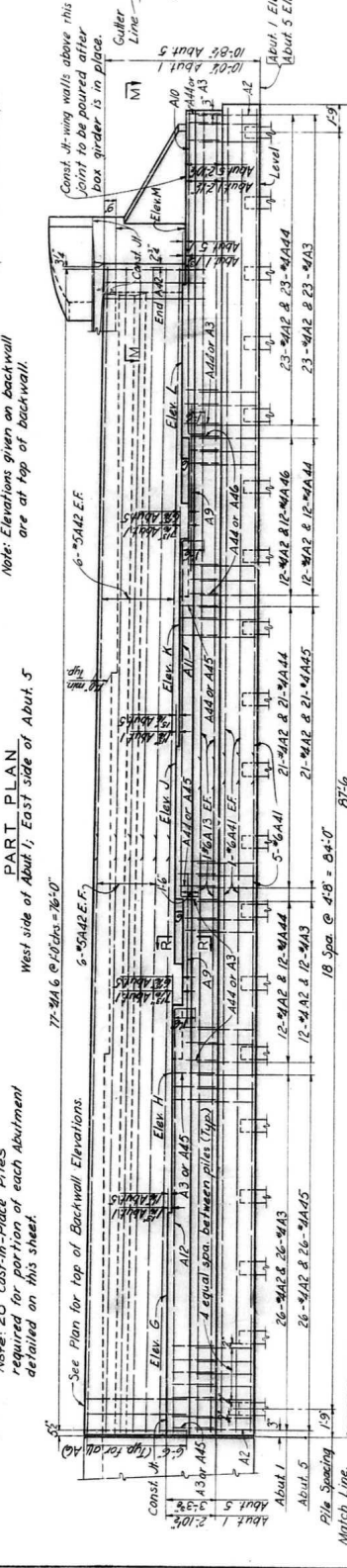
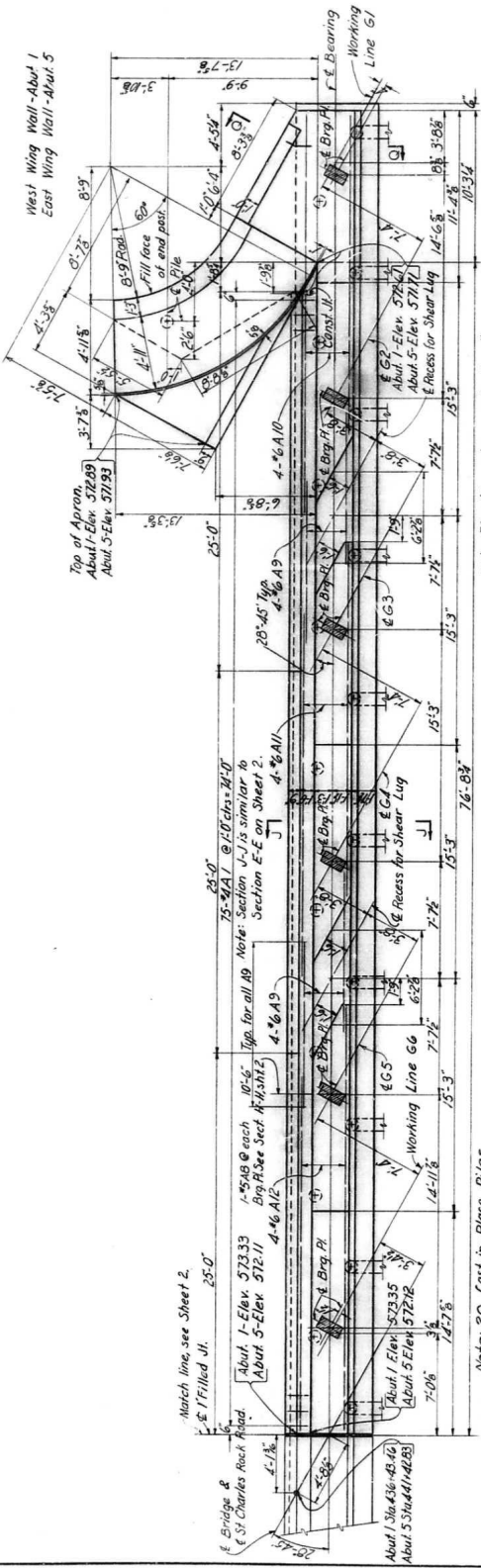
MISSOURI STATE HIGHWAY DEPARTMENT

ST. CHARLES ROCK ROAD UNDERPASS

STATE ROAD-MARK TWIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-89(13) (RT 40) STA. 24.7 + 93.8

WEST WING NO. 11 - ADD. 5' - Similar	DEVELOPED ELEVATION B-B	SECTION C-C for curb steel not shown, see Section D-D	Note: Do not scale this drawing. Follow dimensions.
Drawn by: H.C. Morris, March, 1956 965175	SHEET 2 OF 16		
SVERDRUP AND PARCEL, INC. ENGINEERS-ARCHITECTS ST. LOUIS, MO.			
FINISHED			
L-887			

ITEM NO.	DATE	REV.	BY	CHK.	SHEET NO.	TOTAL SHEETS
110	11/0	11/0	11/0	11/0	11/0	11/0



NOTES

See Sheet 5 for Anchor Bolt Plan.

See Sheet 5 for expansion device which will be cast in backwall & curb.

See Special Provisions for finish required on recess for Shear Lugs.

Work this sheet with sheet 2.

MISSOURI STATE HIGHWAY DEPARTMENT

**ST. CHARLES ROCK ROAD UNDERPASS**

STATE ROAD-MARK TWIN EXPRESSWAY

ABOUT 3 MILES S.W. OF ROBERTSON

PROJECT NO. 1-89(13) (RT. 40) STA 246 + 83.8

**ST. LOUIS COUNTY**

ABUTMENTS 1 & 5

SWERUP AND PARCEL, INC.

ENGINEERS-ARCHITECTS

ST. LOUIS, MO.

SHEET 3 OF 18

L-887

SEE FINAL PLANS BROWN-LINES

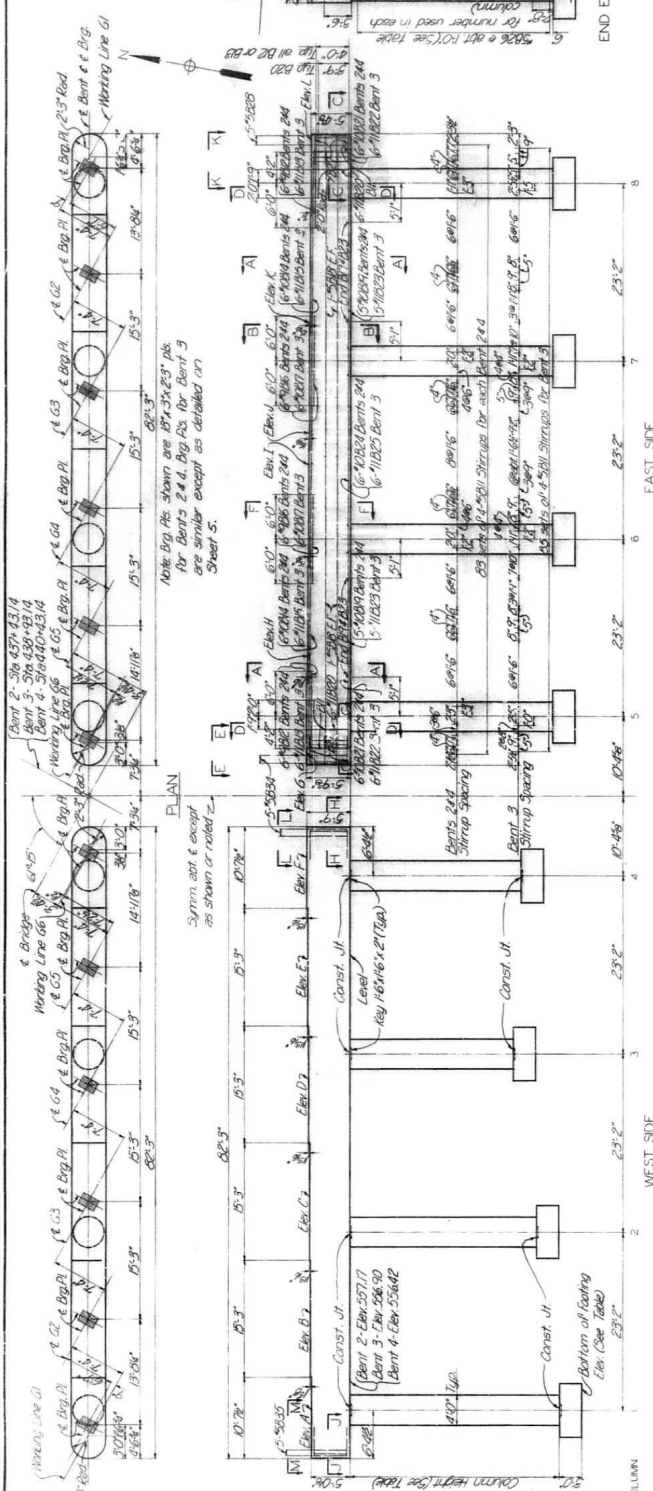
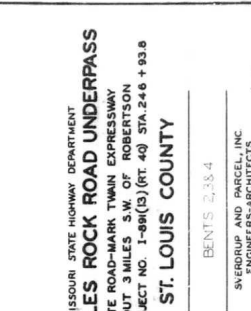
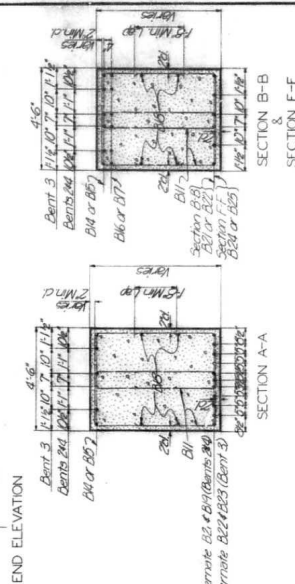
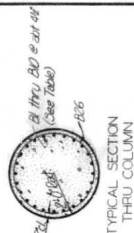
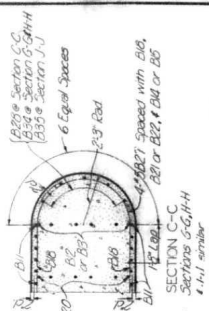
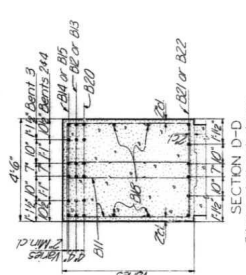
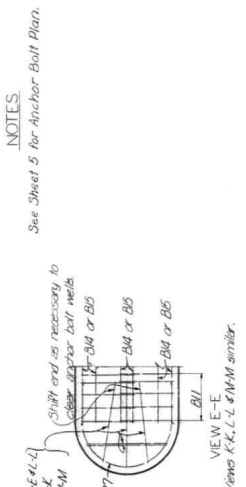
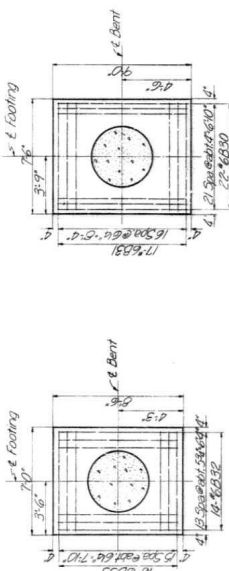


TABLE OF COLUMN REINFORCEMENT				
Bent	Column No.	Column Height	Column Width	No. of Bars
2	1	5700	275	27
	2	5700	245	24
	3	5700	215	21
	4	5380	255	22
3	5	5674.5	265	26
	6	5230	248	24
	7	5290	240	24
	8	5290	210	21
4	9	5340	295	29
	10	5290	245	24

Elem.	TABLE OF ELEVATION				
	dent 1	dent 2	dent 3	dent 4	dent 5
A	562.15	561.91	561.43		
B	562.32	562.05	561.57		
C	562.47	562.20	561.72		
D	562.62	562.36	561.87		
E	562.77	562.50	562.02		
F	562.92	562.65	562.17		
G	562.95	562.68	562.20		
H	562.96	562.69	562.21		
I	562.98	562.70	562.23		
J	562.99	562.71	562.24		
K	562.99	562.71	562.24		
L	562.99	562.71	562.24		



NOTES

See Sheet 5 for Anchor Bolt Plan.

Shift end as necessary to clear anchor bolt wells  
7'-0" or 8'5"  
8'4" or 8'5"  
8'4" or 8'5"  
8'4" or 8'5"

VIEW E-F

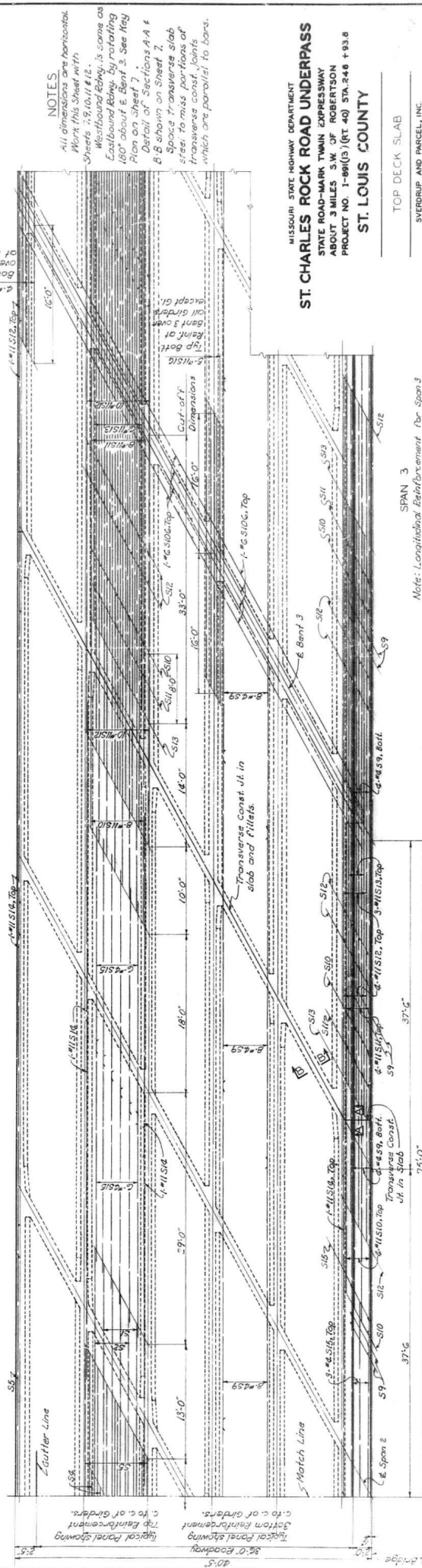
Notes K.L.L.L & M.M similar.

Dimensions

22. Perrinton, Ar. 1956

Checked by:





**NOTES**  
All dimensions are horizontal.  
Work this sheet with  
sheets 7, 9, 10, 11 & 12.  
Westwood Eddy, is same as  
Westwood Eddy, by rotating  
about 180° about E. Surf 3. See Key  
Plan on Sheet 7.  
Detail of Sections A &  
B shown on Sheet 7.  
Space Transverse slab  
sides. To miss portions of  
transverse const. joints  
which are parallel to bars.

**ST. CHARLES ROCK ROAD UNDERPASS**  
MISSOURI STATE HIGHWAY DEPARTMENT  
STATE ROAD-MARK TWAIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-991(3) (RT 40) STA. 24.6 + 93.6  
**ST. LOUIS COUNTY**

TOP DECK SLAB

SVERDRUP AND PARCEL, INC.  
ENGINEERS-ARCHITECTS

L-887

SHEET 6 OF 16

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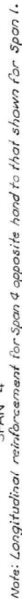
NO CONSTRUCTION CHANGES

Note: Do not scale this drawing. Follow dimensions.

PLAN OF TOP DECK SLAB - EASTBOUND ROADWAY

SPAN 2 (CONT'D.)

Crown by: L. H. J. J. J. J., Feb., 1966  
Checked by: E. J. Shields, Apr., 1956



PLAN OF TOP DECK SLAB-EASTBOUND ROADWAY



*Note: For location of construction joints in girders, see Sheets 8 & 9.*

Note: Do not scale this drawing. Follow dimensions.

NOTES

Work this Sheet with Sheets 6, 9, 10, 11 & 12.

NOTES

NOTES

Work this Sheet with Sheets 6, 9, 10, 11 & 12.

MISSOURI STATE HIGHWAY DEPARTMENT  
**ST. CHARLES ROCK ROAD UNDERPASS**  
STATE ROAD-MARK TWIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-991(13) (RT. 40) STA. 24.6 + 93.8

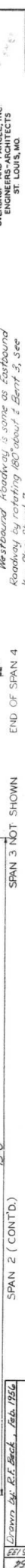
ST. LOUIS COUNTY

TOP DECK SLAB  
AND MISC. DETAILS  
SVERDRUP AND PARCEL, INC.

1964	56510	Grown by: L.H. Glaser, Mar., 1956
		Checked by: F. J. Shields, Aug. 1956



SPAN 1	SPAN 2
78'-0"	78'-0"
Note: All longitudinal dimensions	Note: Reinforcement to be cut or shifted



75	Drawn by: R.F. Beck, Feb. 1956	SPAN 2 (CONT'D.)	62.2	SPAN 3 NOT SHOWN	END OF SPAN 4	ENGINEERS-ARCHITECTS ST. LOUIS, MO.
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11 Checked by E. L. Shields, Apr. 1986

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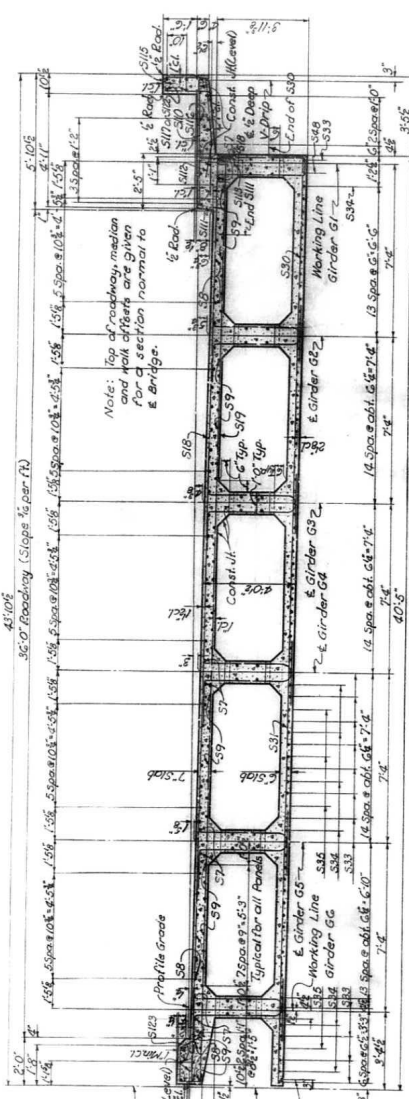
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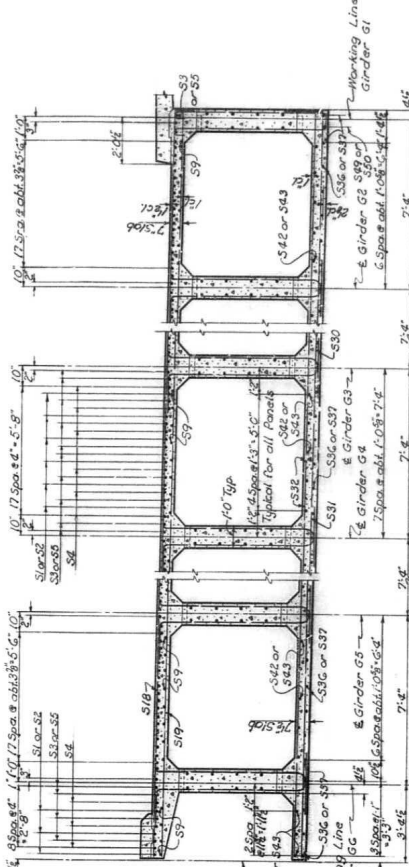
SOCIETY FOR CONCRETE  
ON CHANGES

PAGE 1 OF 10

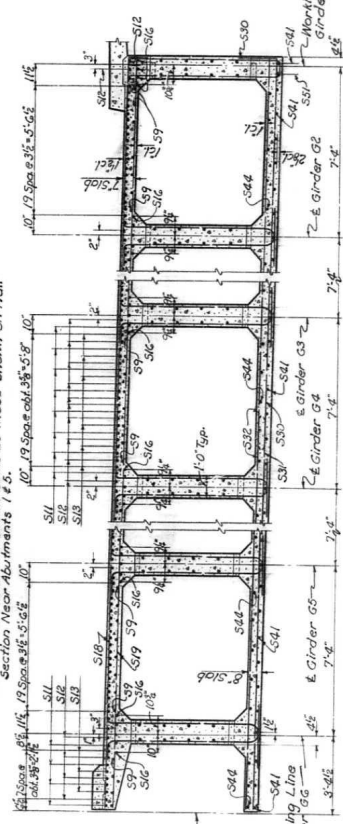
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1	11/20/82	MD		



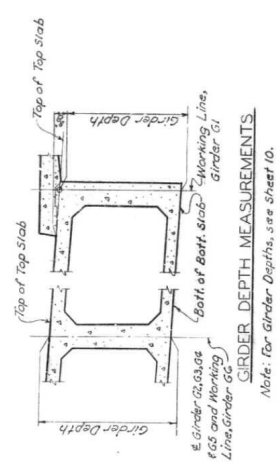
HALF SECTION NEAR ABUTMENTS 1 & 5



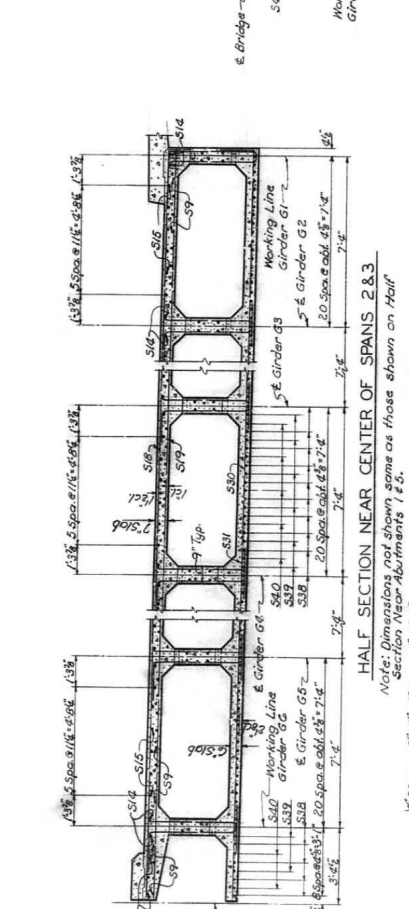
HALF SECTION NEAR CENTER OF SPANS 2 & 3



HALF SECTION NEAR BENT 3



GIRDER DEPTH MEASUREMENTS



HALF SECTION NEAR BENTS 2 & 4

NOTES

Work this Sheet with Sheets 6, 7, 8, 10, 11 & 12

MISSOURI STATE HIGHWAY DEPARTMENT  
STATE ROAD-MARK TWIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-89(13) (RT-40) STA 24.6 + 93.8  
ST. LOUIS COUNTY

CROSS SECTIONS  
SVERDRUP AND PARCEL, INC.  
ENGINEERS-ARCHITECTS  
ST. LOUIS, MO.

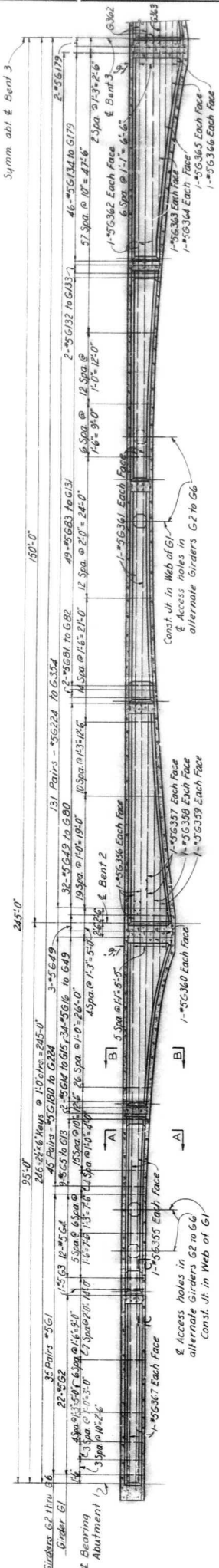
Note: Do not scale this drawing. Follow dimensions.

NO CONSTRUCTION CHANGES

SHEET 8 OF 18

L-867

FILE NO.	STATE	FED. AID	FEEL	TOTAL
110	MO	27.50		



LONGITUDINAL SECTION THRU BRIDGE  
SHOWING ELEVATION OF GIRDERS  
Note: All dimensions are horizontal and  
along & of girder.

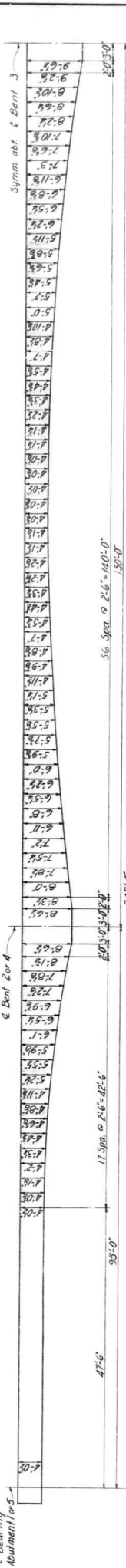
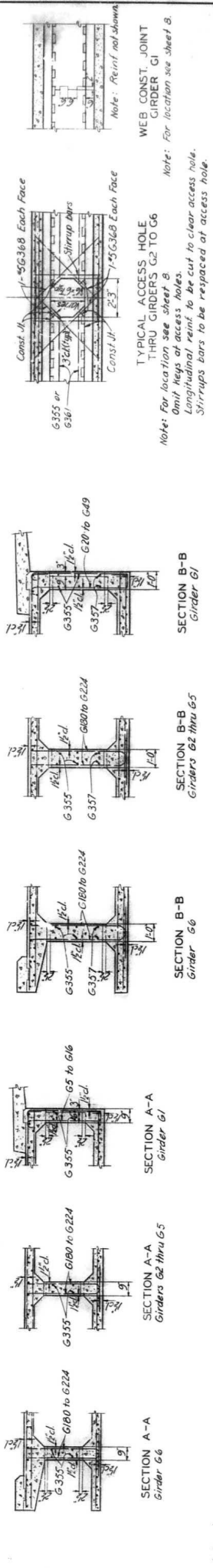
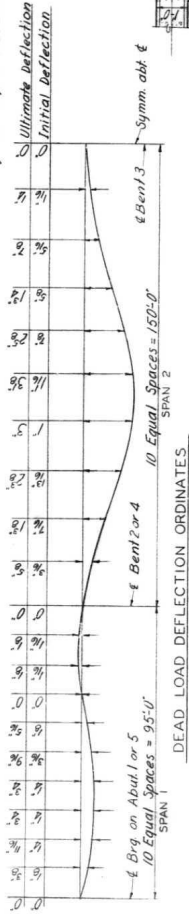
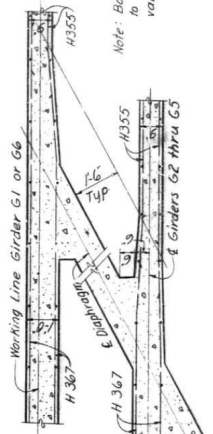


DIAGRAM SHOWING GIRDER DEPTHS  
See sheet 9 for location of girder depth measurements



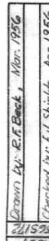
DEAD LOAD DEFLECTION ORDINATES  
SPAN 2  
Note: The Contractor shall make allowances in setting forms to  
compensate for ultimate dead load deflection.  
Top of slab elevations computed from grade line are desired elevations after  
ultimate dead load deflection has occurred.  
Ec = 4000000 p.s.i. used in computing initial dead load deflection.  
Ec = 1,333,333 p.s.i. used in computing ultimate dead load deflection.



SECTION C-C

MISSOURI STATE HIGHWAY DEPARTMENT  
**ST. CHARLES ROCK ROAD UNDERPASS**  
STATE ROAD-MARK TWIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-88(13)(RT 40) STA. 24.8 + 93.8  
**ST. LOUIS COUNTY**

GIRDER DETAILS  
SVERDRUP AND PARCEL, INC.  
ENGINEERS-ARCHITECTS  
ST. LOUIS, MO.



SHEET 11 OF 16

DIAPHRAGMS

SVERDRUP AND PARCEL, INC.  
ENGINEERS-ARCHITECTS  
ST. LOUIS, MO.

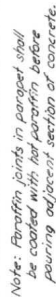
MISSOURI STATE HIGHWAY DEPARTMENT  
**ST. CHARLES ROCK ROAD UNDERPASS**  
STATE ROAD-MARK TWIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-89(13) (RT. 40) STA. 2+6 + 93.6  
**ST. LOUIS COUNTY**

**NOTES**  
All dimensions are in feet.  
Diaphragms shown  
Roadway. See Key Plan  
of similar diaphragms.

*N.F.* indicates Near Face.  
*F.F.* indicates Far Face.

DIAPHRAGM AT BENTS 2, 3 & 4  
Note: Longitudinal dimensions are along a Bent.

Note: Do not scale this drawing. Follow dimensions.



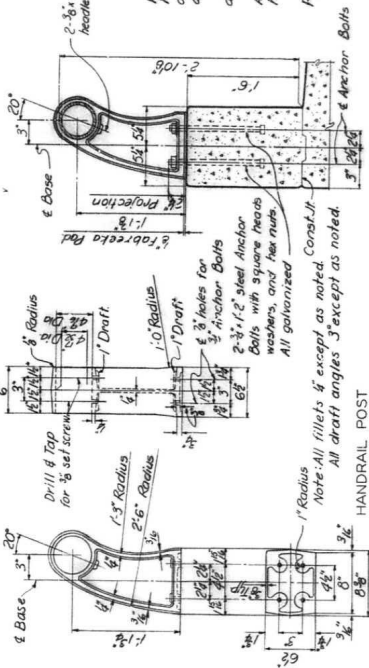
PLAN OF SIDEWALK AND PARAPET FOR EASTBOUND ROADWAY  
*Sidewalk and Parapet for Westbound Roadway same by 180° rotation.*



PLAN OF MEDIAN FOR EASTBOUND ROADWAY  
*Median for Westbound Roadway same by 180° rotation.*



Note: Location of 'E' indicates expansion side of rail expansion joint.



NOTES

**INSTALLATION**

All handrail posts shall be set normal to grade. Post base may be used for adjusting rail alignment. Maximum thickness of shims to be  $\frac{1}{8}$ ". Where more tilting of post is required for proper alignment, concrete bearing one shoe shall be ground down.

All parts of handrail except anchor bolts, nuts, washers, and set screws to be Aluminum. See Special Applications. The contract unit price per linear foot for "Aluminum Alloy Handrail" shall include furnishing and erecting the handrail complete with anchor bolts, shims and fabricate. The length of "Aluminum Alloy Handrail" measured for payment shall be the total length out to cut of rails.

**ST. CHARLES ROCK ROAD UNDERPASS**  
MISSOURI STATE HIGHWAY DEPARTMENT  
STATE ROAD-MARK TWIN EXPRES SWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO. 1-89(13.) (RT 40) STA. 246 + 93.6  
**ST. LOUIS COUNTY**

SIDEWALK, PARAPET, MEDIAN & HANDRAIL

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SVERDRUP AND PARCEL, INC.  
ENGINEERS-ARCHITECTS  
ST. LOUIS, MO

*Note: Do not scale this drawing. Follow dimensions.*

L-987

## NO CONSTRUCTION CHANGES

151596	Drawn by S. A. Hussaini, Feb. 1956
151597	Checked by L. H. Glasser, Apr. 1956



MISSOURI STATE HIGHWAY DEPARTMENT  
**CARLES ROCK ROAD UNDERPASS**  
 STATE ROAD-MARK TWIN EXPRESSWAY  
 ABOUT 3 MILES S.W. OF ROBERTSON  
 PROJECT NO. 1-B9(03) (RT. 40) STA. 2+48 + 93.8

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**ST. LOUIS COUNTY**

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**SAR LIST**

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**SHERIDAN AND PARCEL INC.**  
 ENGINEERS-ARCHITECTS  
 ST. LOUIS, MO

L-887

Dimensions for Bending										Dimensions for Bending										Dimensions for Bending										Dimensions for Bending											
BRIDGE (CONT'D)										BRIDGE (CONT'D)										BRIDGE (CONT'D)										BRIDGE (CONT'D)											
No.	Size	Length	Mark	Type	Location	A	B	C	D	E	F	G	H	J	K	P	O			No.	Size	Length	Mark	Type	Location	A	B	C	D	E	F	G	H	J	K	P	O				
1	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	1	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
2	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	2	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	3	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	5	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	6	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	7	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	8	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	9	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
10	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
11	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	11	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	12	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	13	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	14	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	15	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	16	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	17	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	18	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	19	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	20	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	21	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	22	1/2"	10'	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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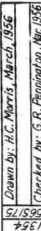
565319	Drawn by: D.G. Hartman, Jr. 1956.
1/354	Checked by: H. J. J. 1956

*Dimensioning, bending and hooks for Special  
Bending Details shall conform to the standards  
as noted or shown on Sheet 13.*

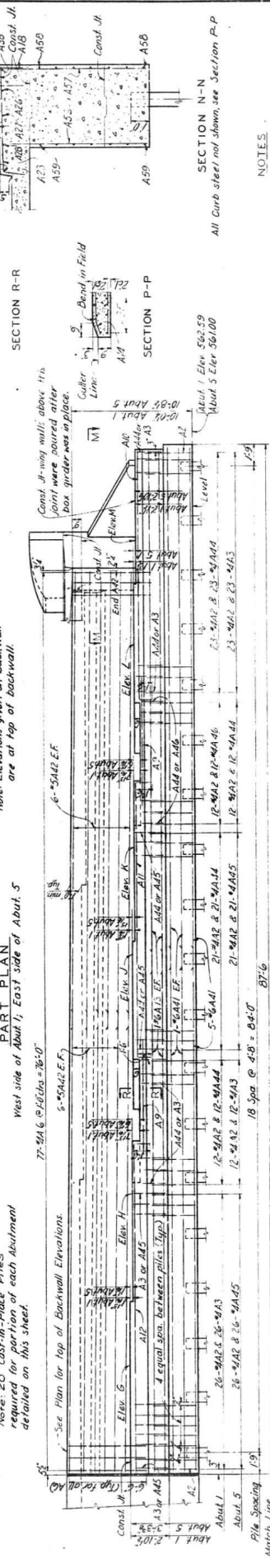
SHEET 16 OF 16

L-887

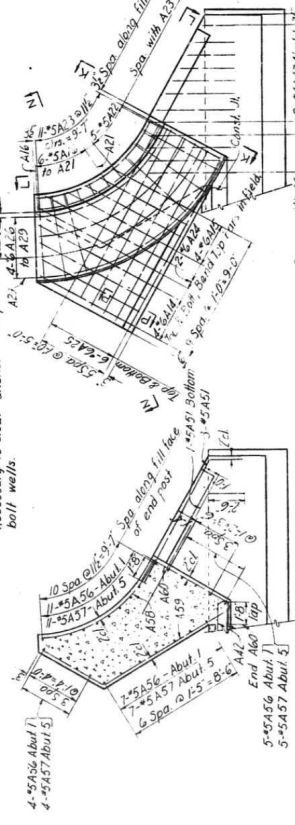




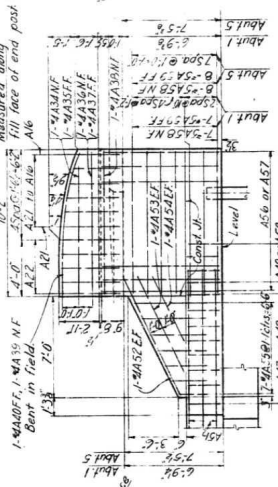
L-887



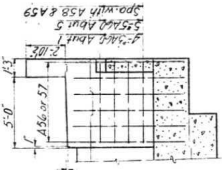
ELEVATION



SECTION M-M



ADP  
ADP or A50  
DEVELOPED ELEVATION L-L



SECTION K-K

MISSOURI STATE HIGHWAY DEPARTMENT  
ST. CHARLES ROCK ROAD UNDERPASS  
STATE ROAD-MARK TWIN EXPRESSWAY  
ABOUT 3 MILES S.W. OF ROBERTSON  
PROJECT NO 1-88(13) (RT 40) STA 2+6 + 93.8  
ST. LOUIS COUNTY

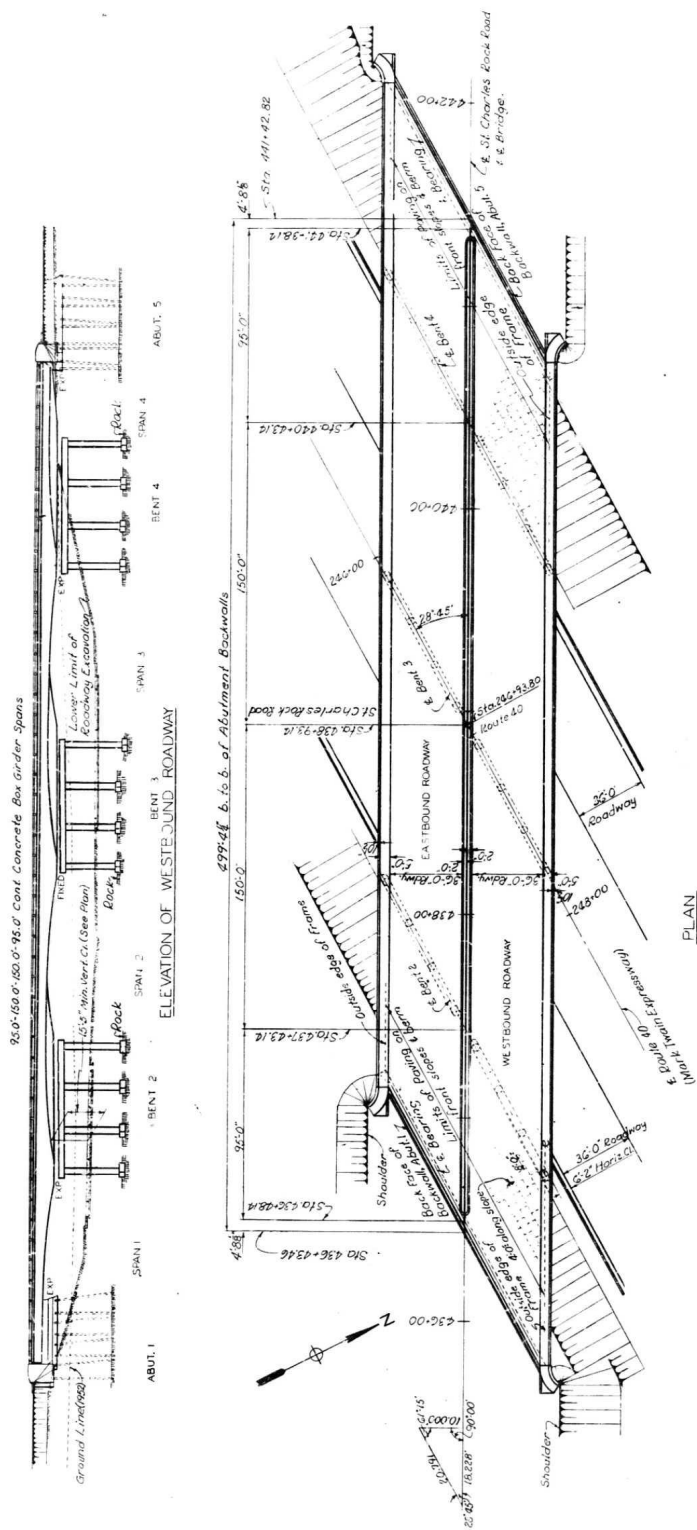
ABUTMENTS 1 & 5

FINAL PLANS

Note: Do not scale this drawing. Follow dimensions.

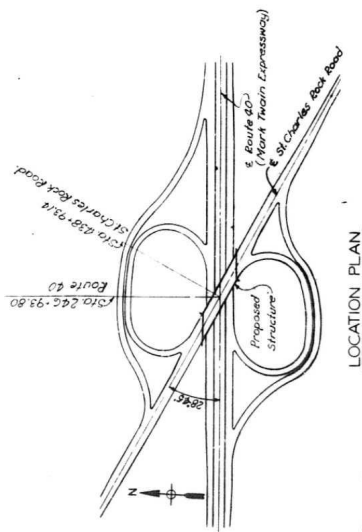


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MD.		19	2	



ESTIMATED QUANTITIES		Total
Item		
Latex Concrete Wearing Surface	Sq Yd	3996
Repairing Concrete (Half-Sole)	Sq Ft	5395
Full Depth Repair	Sq Ft	790
Reinforcing Steel	Lbs	1000
Modification of Expansion Devices (Lump Sum)		1

*Note: An estimated 1000lbs of Reinforcing Steel has been added to the Estimated Quantities for the replacement of reinforcing steel for repairing the deck by half-sole and full depth repair.*



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

STD.	L-887R
------	--------

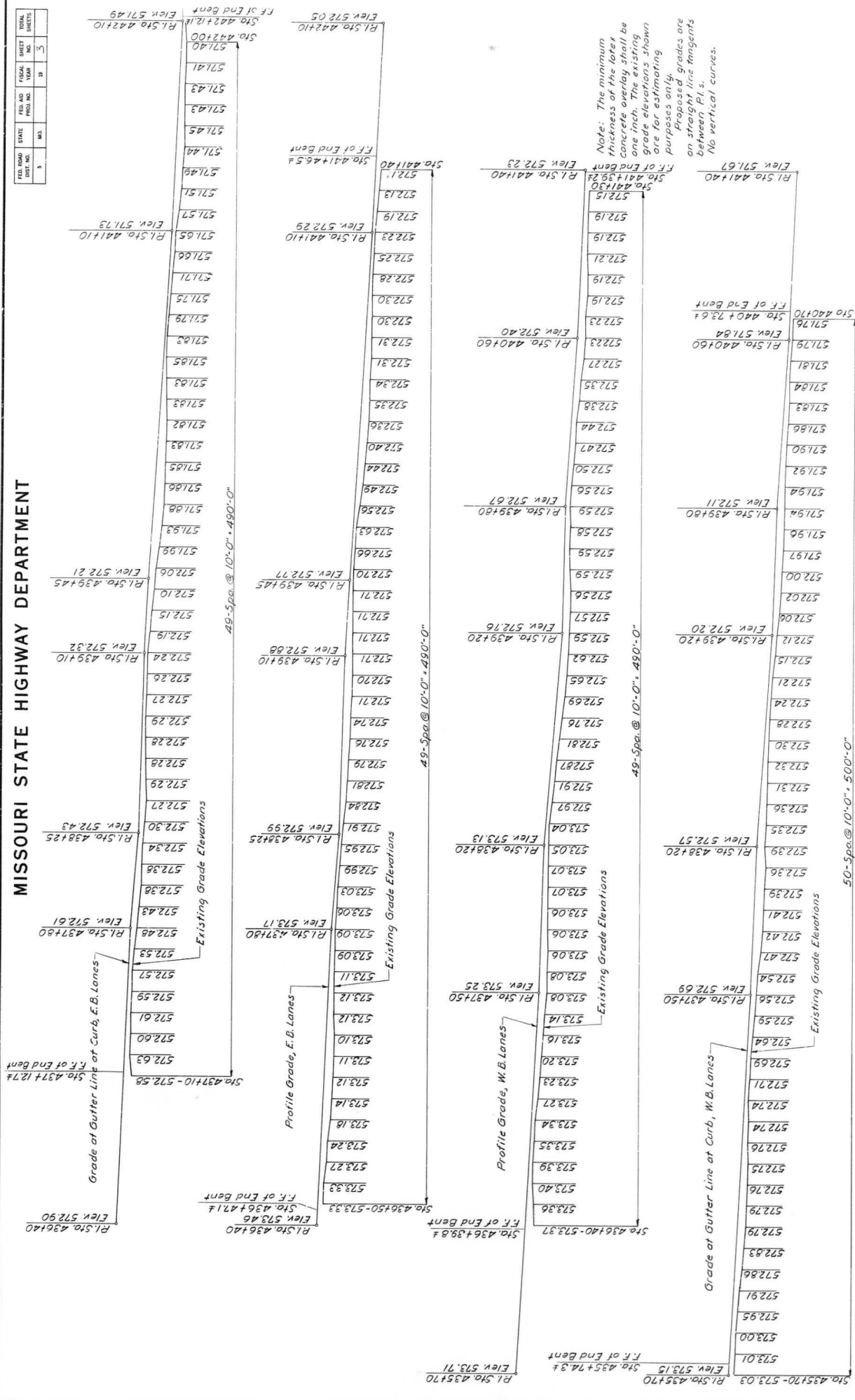
SUBMITTED BY W. R. Conley DATE 7-3-73  
SAFETY ENGINEER

APPROVED BY Robert M. Hendrick DATE 7-3-73

Sheet No. 1 of 3.

DESIGNED	19	BY
DETAILED	JUN	1973 BY CHAPMAN
CHECKED	June	1973 BY Moberly

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	M.D.		19	3	



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

## PROPOSED AND EXISTING GRADES

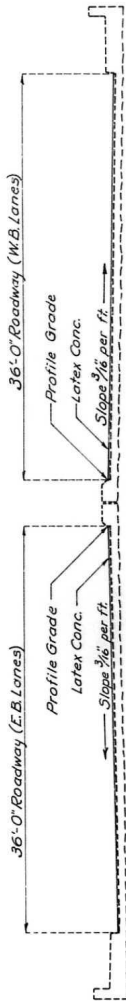
Sheet No. 2 of 3

ST. LOUIS COUNTY

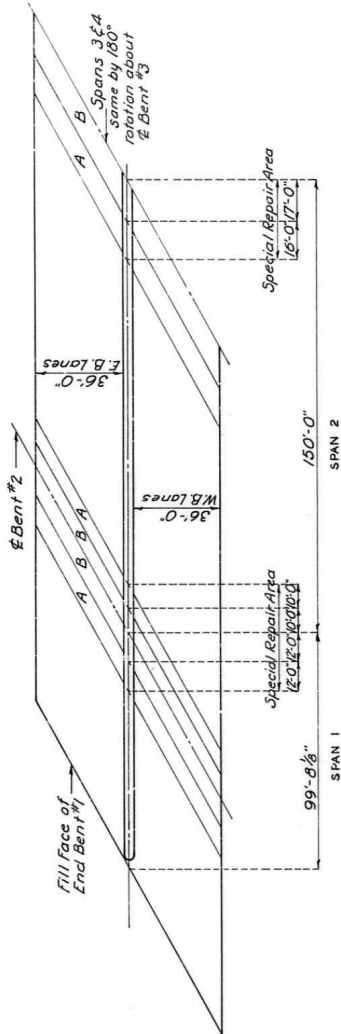
L-887R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5	MO.		19	47

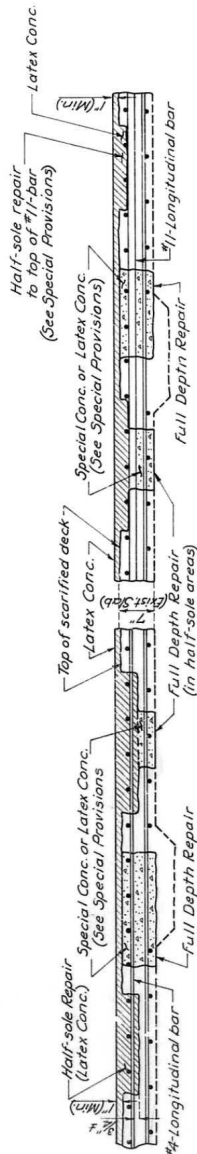


PART TYPICAL SECTION

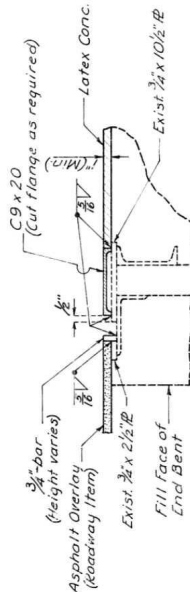


PART PLAN

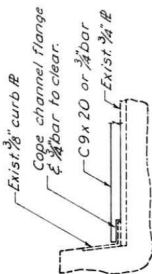
Note: Any concrete removal for half-slab or full depth repair shall be done first in the areas designated "A", next in areas "B" and then in the remainder of the spans. (See Special Provisions)



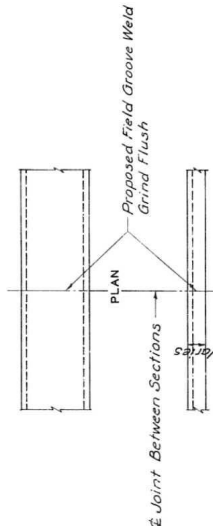
TYPICAL DECK REPAIR



EXPANSION DEVICE MODIFICATION AT END BENTS



EXPANSION DEVICE AT CURBS (Typ.)

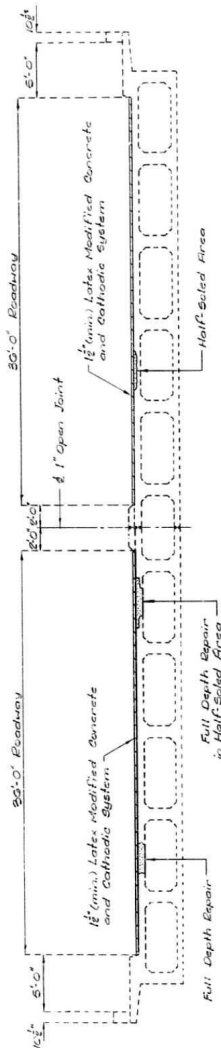


DETAILS OF CHANNEL SPLICE

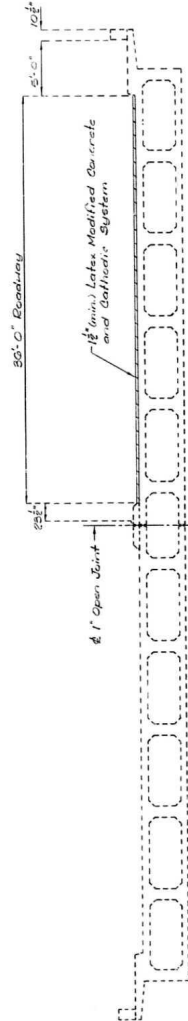


MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

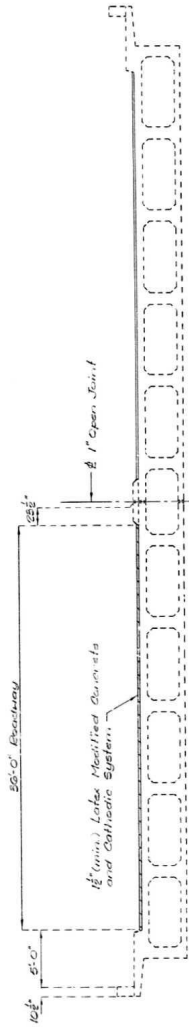
STATE	PROJ. NO.	SHEET NO.
MO		1
SEC./RUR. 1/2	TWP. 24N	RGE. 2E



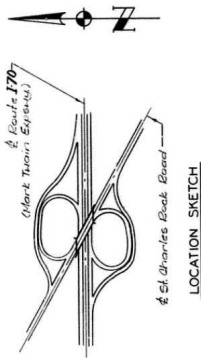
SECTION THRU SLAB



STAGE ONE CONSTRUCTION



STAGE TWO CONSTRUCTION



LOCATION SKETCH

ESTIMATED QUANTITIES	
ITEM	TOTAL
Repairing Concrete Deck (Half Section)	Sq. Ft. 1,785
Full Depth Repair	Sq. Ft. 1,785
Later Concrete Repairing Surfaces	Sq. Ft. 8,12
Cathodic Protection System	Linear Feet 4
Steel Bar-Dows	Sq. 4

GENERAL NOTES:

Cutting of old work is indicated by light dashed lines. Heavy lines indicate new work.  
Traffic over structure to be maintained during construction.  
(See road plans)

REPAIRS TO:  
BRIDGE OVER INTERSTATE ROUTE 70

STATE ROAD FROM LINDBERGH BLVD. TO ROUTE 115  
IN BRIDGETON

PROJECT NO. 10-70-5(221) STA. 436+43.46

JOB NO. 6-U180-687 RTE. 180

ST. LOUIS COUNTY

DATE April 24, 1985

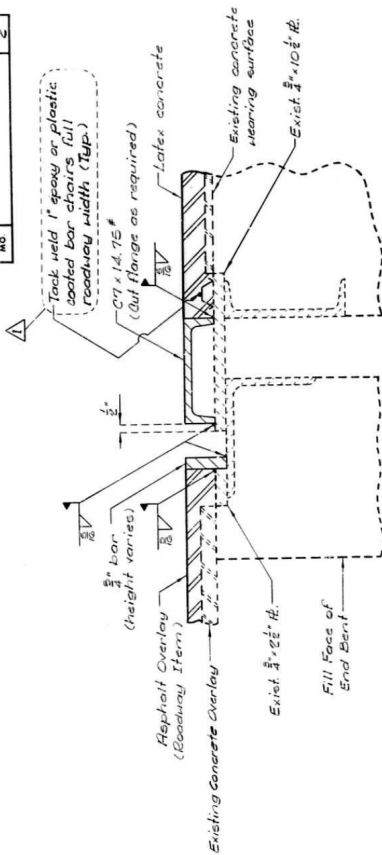
Sheet No. 1 of 5

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

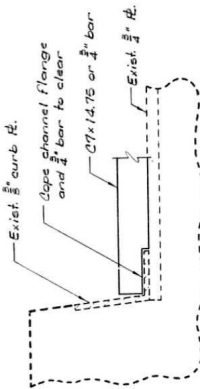
DESIGNED April, 1985  
DETAILED April, 1985  
CHECKED April, 1985

STD. 712.40  
L-887R1

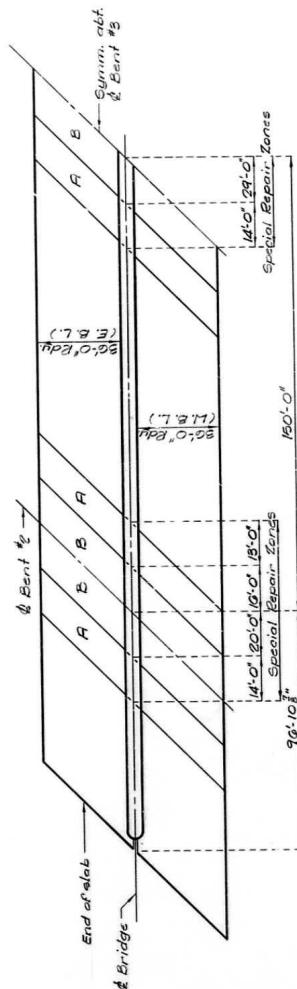
STATE	PROJ. NO.	SHEET
MO.		NO.
		2



EXPANSION DEVICE MODIFICATIONS  
AT END BENTS

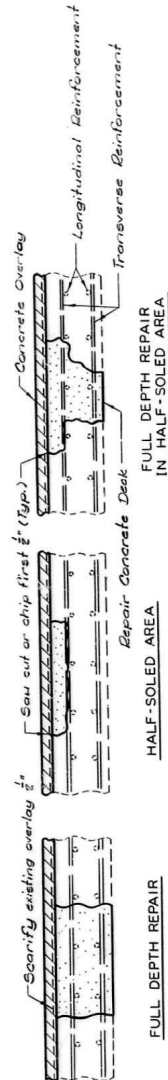


EXPANSION DEVICE AT CURBS



PLAN OF EXISTING SLAB  
SHOWING SPECIAL REPAIR ZONES

Note: Any repair in the remainder of the bridge that is within 4'-0\"/>



Note: For 'General Notes' pertaining to expansion device modifications see Std. Drawing No. 118.42.  
Remove the existing bar dam (3/4\"/>

DETAILED April 1, 1986  
CHECKED April 1, 1986

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

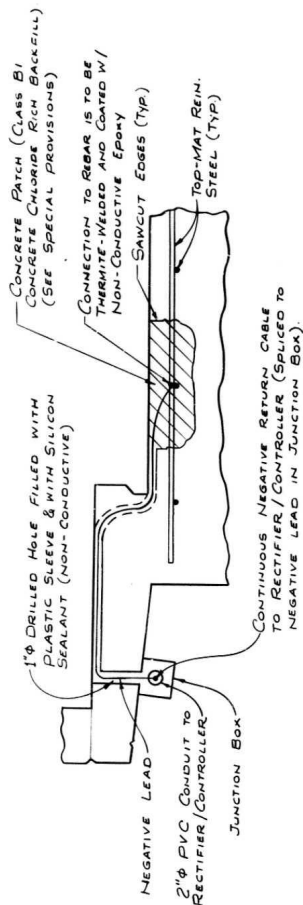
Revised Jan. 15, 1986

Sheet No. 2 of 5

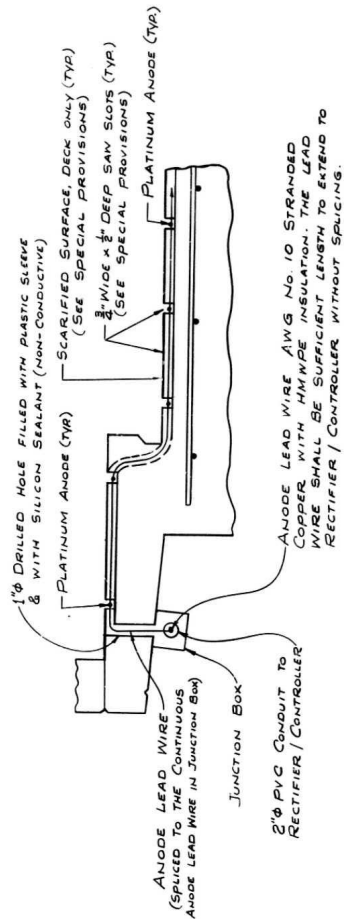
ST. LOUIS COUNTY

L-887R1





**SYSTEM NEGATIVES CONNECTION DETAIL**



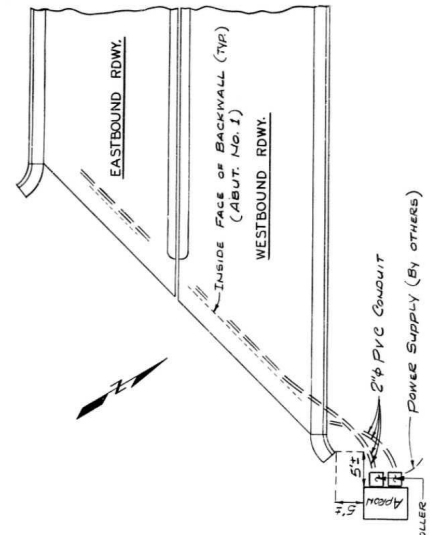
**PRIMARY ANODE TO ANODE LEAD WIRE DETAIL**

**Note:** All concrete removal shall be initiated by saw cutting the first 1/2".

**Notes:** Conduit shall be schedule 40 Heavy Wall PVC (Polyvinyl Chloride Plastic). Each section shall be 10' long. Conduit shall be secured to concrete with clamps at 10' intervals. Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines. The location and direction of conduit may be shifted to meet field conditions as approved by the engineer. Use expansion couplings and access fittings where appropriate. The junction boxes shall be PVC molded, surface mounted, size 6" x 6" x 4". They shall be equal to Carlon Electrical Construction Products or "Triangle Conduit & Cable Inc." The conduits and the connections and cover shall be of water tight construction.



Sheet No. 4 of 5



RECTIFIER/CONTROLLER

PLAN LOCATION OF RECTIFIER/CONTROLLER

POWER SUPPLY (By others)

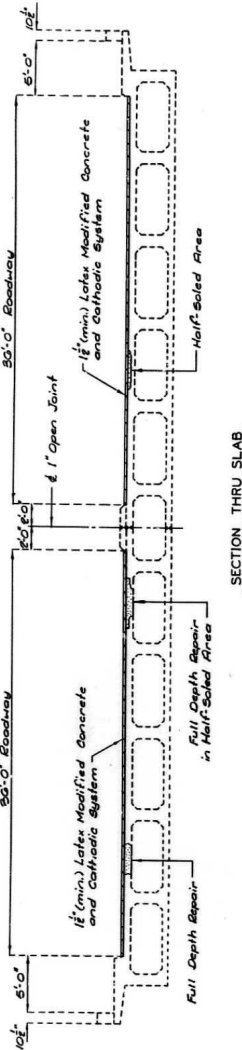
L-887R1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

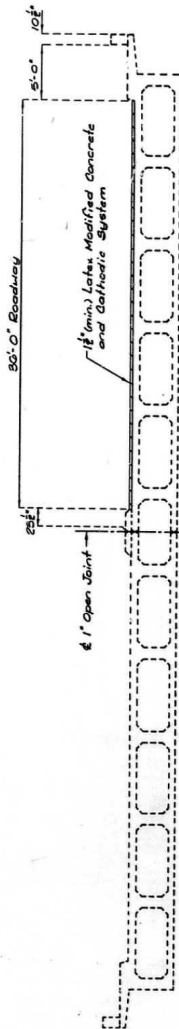
STATE	PROJ. NO.	SHEET
MO.		1
SEC./RUR. 1/2	TWP. 46N	RGE. 52E

GENERAL NOTES:

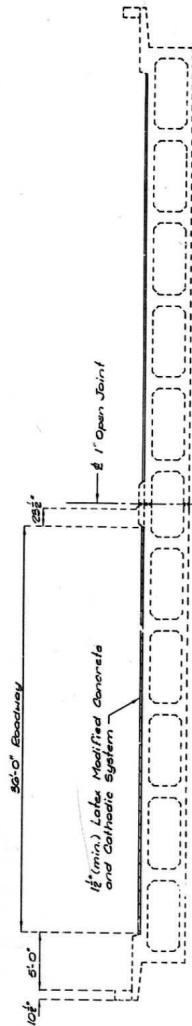
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.  
Traffic over structure to be maintained during construction.  
(See road plans)



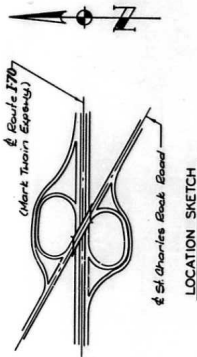
SECTION THRU SLAB



STAGE ONE CONSTRUCTION



STAGE TWO CONSTRUCTION



FINAL QUANTITIES	
ITEM	TOTAL
Repairing Concrete Deck (Half-Soling)	Sq. Ft. 9,317
Full Depth Repair	Sq. Ft. 1,274
Latex Concrete Wearing Surface	Sq. Yds. 8.1
Cathodic Protection System	Lump Sum 1.0
Steel Bar Dams	Ea. 4.0

REPAIRS TO:  
**BRIDGE OVER INTERSTATE ROUTE 70**  
STATE ROAD FROM LINDBERGH BLVD. TO ROUTE 115  
IN BRIDGETON  
PROJECT NO. 12-70-5(221) STA. 436+43.46  
JOB NO. 6-U/30-687 RTE. 180  
**ST. LOUIS COUNTY**  
DATE April 24, 1985  
SHEET NO. 1A of 5.

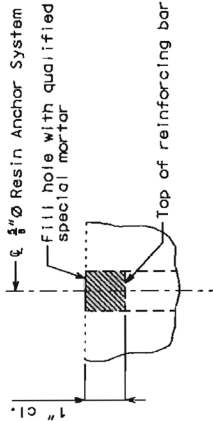
DESIGNED April, 1985	STD.
DETAILED April, 1985	STD. 712-40
CHECKED April, 1985	L-887R1

Job No.	Bridge No	New Bridge No.	County	Feature Intersected	Facility Carried
J6S2143	A0831	A08313	JEFFERSON	IS 55	MAIN ST E
J6S2143	A0240	A02403	ST. LOUIS	IS 270	OLD HALLS FERRY RD
J6S2143	A0964	A09642	ST. LOUIS	IS 270	BIG BEND
J6S2143	A1721	A17214	ST. LOUIS	SAPPINGTON RD S	IS 44
J6S2143	A1726	A17264	ST. LOUIS	ROCK HILL RD S	IS 44
J6S2143	A1732	A17323	ST. LOUIS	MURDOCH AVE E	IS 44
J6S2143	A1736	A17362	ST. LOUIS	SHREWSBURY AVE S	IS 44
J6S2143	L0638	L06382	ST. LOUIS	IS 64	GRAND
J6S2143	L0793	L07934	ST. LOUIS	CST LACLEDE STATION RD	IS 64 E
J6S2143	L0794	L07942	ST. LOUIS	IS 64	BOLAND PLACE
J6S2143	L0795	L07954	ST. LOUIS	CST CLAYTON TER	IS 64 E
J6S2143	L0887	L08873	ST. LOUIS	MO 180 E	IS 70
J6S2143	L0887	L08873	ST. LOUIS	MO 180 W	IS 70
J6S2143	L0888	L08884	ST. LOUIS	FEE FEE RD S	IS 70
J6S2143	A0136	A01362	ST. LOUIS CITY	9TH ST S	IS 70, RV 70
J6S2143	A0141	A01413	ST. LOUIS CITY	IS 70, RV 70	ST LOUIS AVE E
J6S2143	A0840	A08402	ST. LOUIS CITY	MARKET ST E	RP PINE ST TO IS64E, RP,
J6S2143	A0891	A08912	ST. LOUIS CITY	KINGSHIGHWAY BLVD	IS 64
J6S2143	A0891	A08912	ST. LOUIS CITY	KINGSHIGHWAY BLVD	IS 64
J6S2143	A0892	A08921	ST. LOUIS CITY	KINGSHIGHWAY BLVD	CST CLAYTON AVE
J6S2143	A0892	A08921	ST. LOUIS CITY	KINGSHIGHWAY BLVD	CST CLAYTON AVE
J6S2143	A0918	A09183	ST. LOUIS CITY	WEBER RD E	IS 55
J6S2143	A1077	A10772	ST. LOUIS CITY	IS 55	LOUGHBOROUGH AVE E
J6S2143	A1077	A10772	ST. LOUIS CITY	IS 55	LOUGHBOROUGH AVE W
J6S2143	A1078	A10783	ST. LOUIS CITY	HOLLY HILLS AVE E	IS 55
<del>J6S2143</del>	<del>A1081</del>	<del>A10814</del>	<del>ST. LOUIS CITY</del>	<del>IS 55</del>	<del>DELOR ST E</del>
J6S2143	A1087	A10874	ST. LOUIS CITY	UTAH ST E	IS 55
J6S2143	A1088	A10886	ST. LOUIS CITY	ARSENAL ST E	IS 55
J6S2143	A1088	A10886	ST. LOUIS CITY	ARSENAL ST W	IS 55
J6S2143	A1089	A10894	ST. LOUIS CITY	PESTALOZZI ST E	IS 55
J6S2143	A1090	A10904	ST. LOUIS CITY	SIDNEY ST E	IS 55
J6S2143	A1091	A10914	ST. LOUIS CITY	MO 30 E	IS 55
J6S2143	A1094	A10944	ST. LOUIS CITY	IS 55, IS 44	GRAVOIS AVE E
J6S2143	A1510	A15102	ST. LOUIS CITY	WALNUT ST E	IS 70
J6S2143	A1511	A15112	ST. LOUIS CITY	MARKET ST W	IS 70
J6S2143	A1512	A15122	ST. LOUIS CITY	CHESTNUT ST E	IS 70
J6S2143	A1513	A15132	ST. LOUIS CITY	PINE ST W	IS 70
J6S2143	A2257	A22573	ST. LOUIS CITY	NEBRASKA AVE S	IS 44
J6S2143	A2279	A22793	ST. LOUIS CITY	IS 44	GRAND BLVD S
J6S2143	A2279	A22793	ST. LOUIS CITY	IS 44	GRAND BLVD N
J6S2143	A2317	A23178	ST. LOUIS CITY	IS 44	JAMIESON
J6S2143	A2317	A23178	ST. LOUIS CITY	IS 44	JAMIESON

Job No.	Bridge No	New Bridge No.	County	Feature Intersected	Facility Carried
J6S2143	A2322	A23224	ST. LOUIS CITY	IS 44	MACKLIND AVE S
J6S2143	A3263	A32632	ST. LOUIS CITY	IS 44	EDWARDS ST S
J6S2143	K0432	K04322	ST. LOUIS CITY	IS 64	TAMM ENTRANCE S
J6S2143	K0434	K04343	ST. LOUIS CITY	HAMPTON CONCOURSE	IS 64
J6S2143	K0434	K04343	ST. LOUIS CITY	HAMPTON CONCOURSE	IS 64
J6S2143	K0453	K04537	ST. LOUIS CITY	IS 64	TAYLOR
J6S2143	K0465	K04653	ST. LOUIS CITY	IS 64	NEWSTEAD
J6S2143	K0466	K04663	ST. LOUIS CITY	IS 64	TOWER GROVE
J6S2143	L0668	L06683	ST. LOUIS CITY	IS 64	BOYLE AVE S
J6S2143	L0837	L08371	ST. LOUIS CITY	OAKLAND AVE E	IS 64

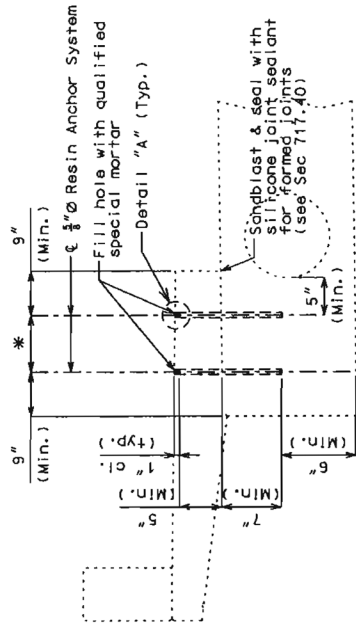
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	DISTRICT	SHEET NO.
MO	BR	
JOB NO. J6S2143		
CONTRACT ID		
PROJECT NO.		



DETAIL "A"

PART SECTION SHOWING RESIN ANCHORS



Estimated Quantities		
Item	Estimated Quantities	Final Quantities
Resin Anchor System (Slab Bridges)	each	4.042
Silicone Joint Sealant	linear foot	6.052

GENERAL NOTES:

See Roadway Plans for traffic control.

Temporary weight shall be placed on the sidewalk in line with the resin anchors. This temporary weight shall be sufficient to balance the cantilevered sidewalk. It shall remain in place until the epoxy bonding agent is cured.

**Resin Anchors:**  
The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the anchor system complete in place shall be included in the price bid for Resin Anchor System (Slab Bridges) including the qualified special mortar to cap the resin anchor.

The minimum ultimate pullout strength shall be in accordance with Sec 1039 with  $f'c = 4,000$  psi.

3/8 inch epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 3/8 inch threaded rod stud.

The epoxy bonding agent shall extend the full length of reinforcing bar.

The Silicone Joint Sealant will be measured to the nearest linear foot. Silicone Joint Sealant, including all materials, equipment, labor and any other incidental work necessary to complete this work, will be paid for at the contract unit price for Silicone Joint Sealant.

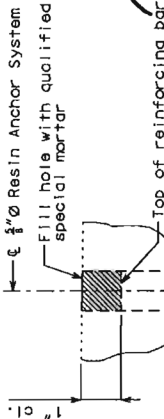
PART PLAN SHOWING RESIN ANCHORS

\* This dimension may be reduced to 0" to avoid rebar and voids in the slab.

8

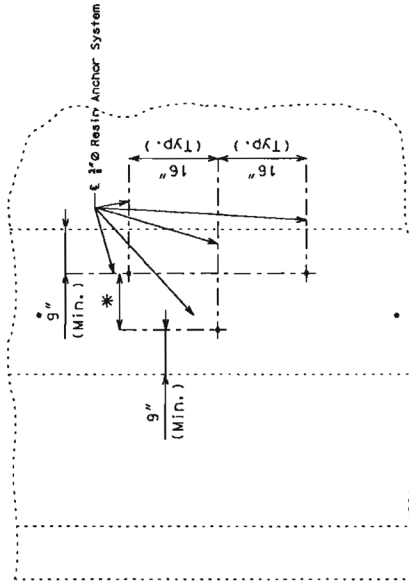
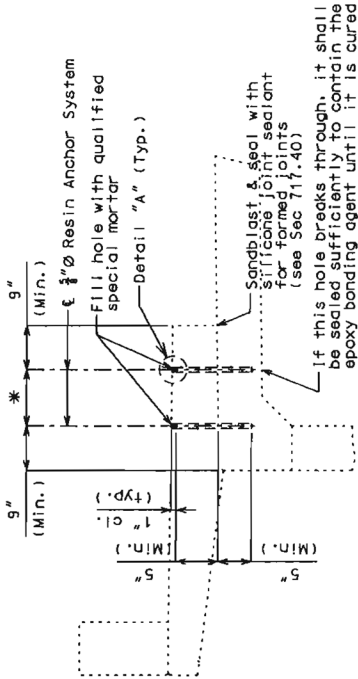
CANTILEVER SIDEWALK RETROFIT FOR SLAB BRIDGES

STATE	DISTRICT	SHEET NO.
MO	BR	
JOB NO. J652143		
CONTRACT ID		
PROJECT NO.		
COUNTY VARIES		



DETAIL "A"

PART SECTION SHOWING RESIN ANCHORS



PART PLAN SHOWING RESIN ANCHORS

\* This dimension may be reduced to 0" to avoid rebar and voids in the slab.

Estimated Quantities		
Item	Estimated Quantities	Final Quantities
Resin Anchor System (Box Girder Bridges)	each	8.407
Silicone Joint Sealant	linear foot	11.199

GENERAL NOTES:

See Roadway Plans for traffic control.

Temporary weight shall be placed on the sidewalk in line with the resin anchors. This temporary weight shall be sufficient to balance the cantilevered sidewalk. It shall remain in place until the epoxy bonding agent is cured.

Resin Anchors:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the anchor system complete in place shall be included in the price bid for Resin Anchor System (Box Girder Bridges) including the qualified special mortar to cap the resin anchor.

The minimum ultimate pullout strength shall be in accordance with Sec 1039 with  $f'c = 4,000$  psi.

$\frac{1}{2}$ " epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the  $\frac{1}{2}$ "  $\phi$  threaded rod stud.

The epoxy bonding agent shall extend the full length of reinforcing bar. The Silicone Joint Sealant will be measured to the nearest linear foot. Silicone Joint Sealant, including all materials, equipment, labor and any other incidental work necessary to complete this work, will be paid for at the contract unit price for Silicone Joint Sealant.

CANTILEVER SIDEWALK RETROFIT FOR BOX GIRDER BRIDGES

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

Detailed Mar. 2007  
Checked Mar. 2007

Sheet No. 2 of 2

VARIES

\\nwr-pr2\gsd\p\652143\_sdwalk\_retrofit.dgn 12:34:16 PM 03/06/2007

**DIST 6 SLAB STRUCTURES WITH SIDEWALKS  
FOR CONTRACT**  
(Total 17)

Bridge No.	County	Feature Intersected	Facility Carried	Bridge Length Ft.	Comment	Resin Anchor System (Slab Bridges)	Silicone Joint Sealant Lin. Ft.
A0831	JEFFERSON	IS 55	MAIN ST E	211	Conduit	282	422
A0240	ST. LOUIS	IS 270	OLD HALLS FERRY RD	131		175	262
A0961	ST. LOUIS	IS 270	DOUGHERTY FERRY RD	236	Conduit	315	472
K0690	ST. LOUIS	RVR DES PERES	MO 340 E	123		164	246
L0793	ST. LOUIS	CST LACLEDE STATION RD	IS 64 E	137		183	274
L0795	ST. LOUIS	CST CLAYTON TER	IS 64 E	137		183	274
A0141	ST. LOUIS CITY	IS 70, RV 70	ST LOUIS AVE E	177		236	354
A0892	ST. LOUIS CITY	KINGSHIGHWAY BLVD	CST CLAYTON AVE	118	Sidewalk on one side only, Conduit	79	118
A0892	ST. LOUIS CITY	KINGSHIGHWAY BLVD	CST CLAYTON AVE	118	Sidewalk on one side only, Conduit	79	118
A1077	ST. LOUIS CITY	IS 55	LOUGHBOROUGH AVE E	209	Sidewalk on one side only, Conduit	140	209
A1077	ST. LOUIS CITY	IS 55	LOUGHBOROUGH AVE W	209	Sidewalk on one side only, Conduit	140	209
A1081	ST. LOUIS CITY	IS 55	DELOR ST E	218		291	436
A1094	ST. LOUIS CITY	IS 55, IS 44	GRAVOIS AVE E	328		438	656
A2279	ST. LOUIS CITY	IS 44	GRAND BLVD S	142		190	284
A2279	ST. LOUIS CITY	IS 44	GRAND BLVD N	142		190	284
A2322	ST. LOUIS CITY	IS 44	MACKLIND AVE S	183	Conduit	244	366
A3263	ST. LOUIS CITY	IS 44	EDWARDS ST S	142	Sidewalk on one side only	95	142
K0432	ST. LOUIS CITY	IS 64	TAMM ENTRANCE S	230		307	460
L0668	ST. LOUIS CITY	IS 64	BOYLE AVE S	233		311	466
<b>SubTotal</b>						<b>4,042</b>	<b>6,052</b>



**DIST 6 BOX GIRDERS WITH SIDEWALKS  
FOR CONTRACT**  
(Total 29)



Bridge No	County	Feature Intersected	Facility Carried	Bridge Length, Ft.	Comment	Resin Anchor Girder Bridges	Silicone Joint Sealant Lin. Ft.
A1721	ST. LOUIS	SAPPINGTON RD S	IS 44	228		342	456
A1726	ST. LOUIS	ROCK HILL RD S	IS 44	251		377	502
A1732	ST. LOUIS	MURDOCH AVE E	IS 44	196		294	392
A1736	ST. LOUIS	SHREWSBURY AVE S	IS 44	243	Sidewalk on one side only	183	243
L0887	ST. LOUIS	MO 180 E	IS 70	499		749	998
L0887	ST. LOUIS	MO 180 W	IS 70	499		749	998
L0888	ST. LOUIS	FEE FEE RD S	IS 70	226	Cathodic Protection System	339	452
A0136	ST. LOUIS CITY	9TH ST S	IS 70, RV 70	292		438	584
A0840	ST. LOUIS CITY	MARKET ST E	RP PINE ST TO IS64E, RP.	345	Conduit	518	690
A0891	ST. LOUIS CITY	KINGSHIGHWAY BLVD	IS 64	231	Sidewalk on one side only, Conduit	174	231
A0891	ST. LOUIS CITY	KINGSHIGHWAY BLVD	IS 64	231	Sidewalk on one side only, Conduit	174	231
A0918	ST. LOUIS CITY	WEBER RD E	IS 55	271	Conduit	407	542
A1078	ST. LOUIS CITY	HOLLY HILLS AVE E	IS 55	230	Conduit	345	460
A1087	ST. LOUIS CITY	UTAH ST E	IS 55	192	Conduit	288	384
A1088	ST. LOUIS CITY	ARSENAL ST E	IS 55	240	Sidewalk on one side only, Conduit	180	240
A1088	ST. LOUIS CITY	ARSENAL ST W	IS 55	240	Sidewalk on one side only, Conduit	180	240
A1089	ST. LOUIS CITY	PESTALOZZI ST E	IS 55	245	Conduit	368	490
A1090	ST. LOUIS CITY	SIDNEY ST E	IS 55	237	Conduit	356	474
A1091	ST. LOUIS CITY	MO 30 E	IS 55	259	Conduit	389	518
A1510	ST. LOUIS CITY	WALNUT ST E	IS 70	80	Conduit	120	160
A1511	ST. LOUIS CITY	MARKET ST W	IS 70	80	Conduit	120	160
A1512	ST. LOUIS CITY	CHESTNUT ST E	IS 70	80	Conduit	120	160
A1513	ST. LOUIS CITY	PINE ST W	IS 70	80	Conduit	120	160
A2257	ST. LOUIS CITY	NEBRASKA AVE S	IS 44	225	Conduit	338	450
K0434	ST. LOUIS CITY	HAMPTON CONCOURSE	IS 64	254	Sidewalk on one side only, Conduit	191	254
K0434	ST. LOUIS CITY	HAMPTON CONCOURSE	IS 64	254	Sidewalk on one side only, Conduit	191	254
L0837	ST. LOUIS CITY	OAKLAND AVE E	IS 64	238	Sidewalk on one side only, Conduit	357	476
<b>SubTotal</b>						<b>8,407</b>	<b>11,199</b>

270-5(4) 16  
ST. LOUIS I-70  
JOB NO. 6-I-70-55EM  
TAGN. ASE.  
FINAL PLANS

REINFORCED CONC. PIPE CULVERT	STATUS	STATION	LOCATION	TRANSVERSE	LENGTH
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234+20	1	234+20	1	1	1
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U.S. SURVEY 654  
247192 I-70, RT. 1  
15' TYPE 'S' SAFETY HDM.

234+00 & I-70  
48' PRECAST M.M.  
I-TYPE 18 FRAME COVER

PRECAST DROP INLETS	STATUS	STATION	LOCATION	TRANSVERSE	LENGTH
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[illegible]