

DESIGN DESIGNATION

A.D.T. - 19 =
A.D.T. - 19 =

D = %
T = %
V = M.P.H.

MISSOURI STATE HIGHWAY COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

COUNTY **JACKSON**

ROUTE **24**

PROJECT **4-11-24-121**

Job No 4-11-24-121

FINAL PLANS

INDEX OF SHEETS

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LENGTH OF PROJECT

END OF PROJECT STA. 73+00
BEGINNING OF PROJECT STA. 61+40

APPARENT LENGTH 1,160 FEET

EQUATIONS AND EXCEPTIONS
 STA 61+40 TO STA 61+50 = 10' (10' 0" 0")
 STA 61+50 TO STA 61+60 = 10' (10' 0" 0")
 STA 61+60 TO STA 61+70 = 10' (10' 0" 0")
 STA 61+70 TO STA 61+80 = 10' (10' 0" 0")
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 STA 72+70 TO STA 72+80 = 10' (10' 0" 0")
 STA 72+80 TO STA 72+90 = 10' (10' 0" 0")
 STA 72+90 TO STA 73+00 = 10' (10' 0" 0")
 TOTAL CORRECTIONS 26.874 FEET
 NET LENGTH OF PROJECT 28,014 FEET

STATE LENGTH 5.305 MILES

FEDERAL LENGTH MILES

MISSOURI STATE HIGHWAY COMMISSION

SUBMITTED

CHIEF ENGINEER

DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

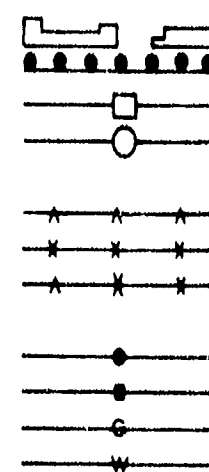
APPROVED

DIVISION ENGINEER

DATE

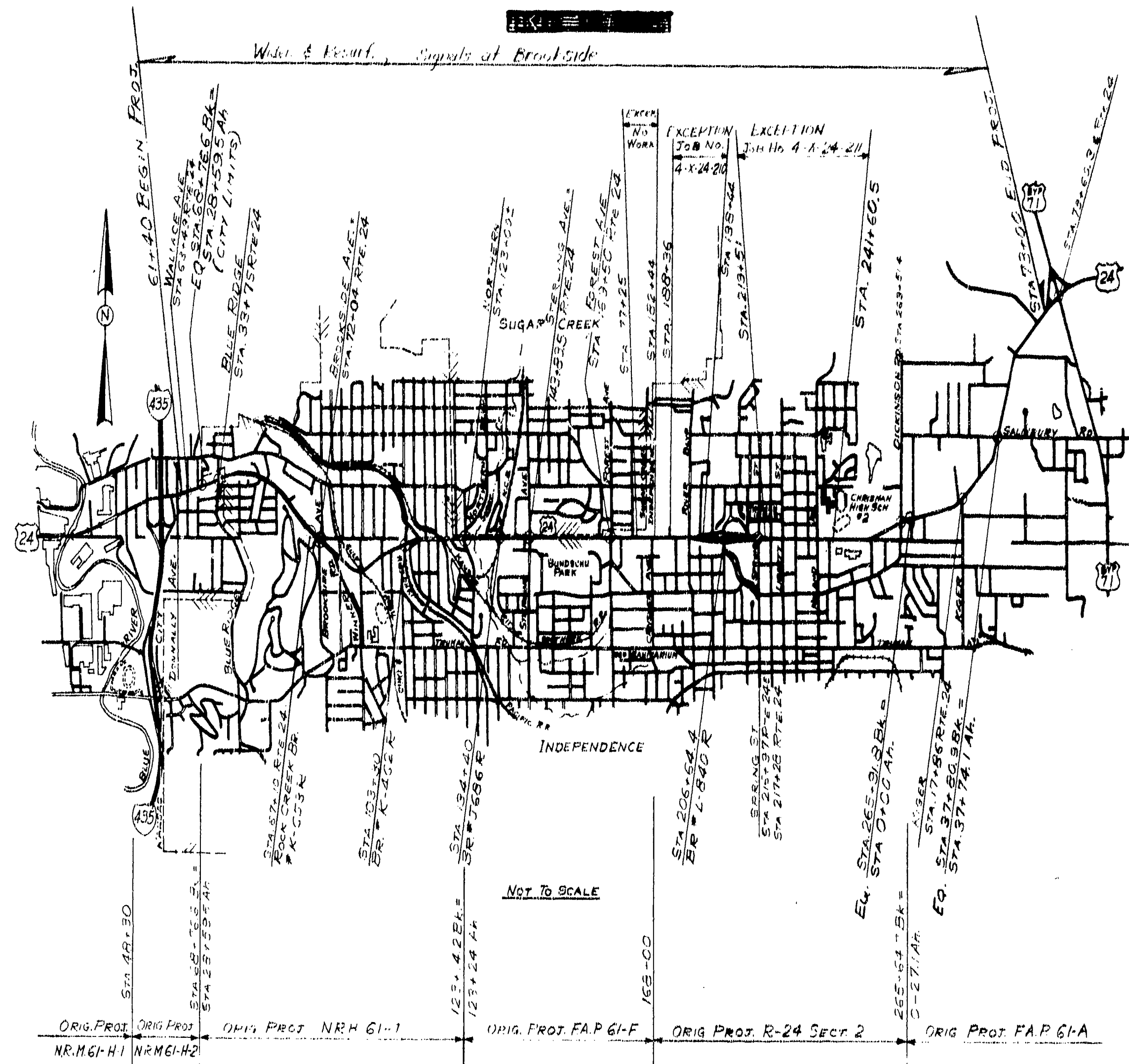
CONVENTIONAL SIGNS (USED IN PLANS)

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



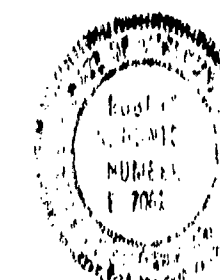
NOTE - DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE.

TITLE SHEET LEGEND



NOT TO SCALE

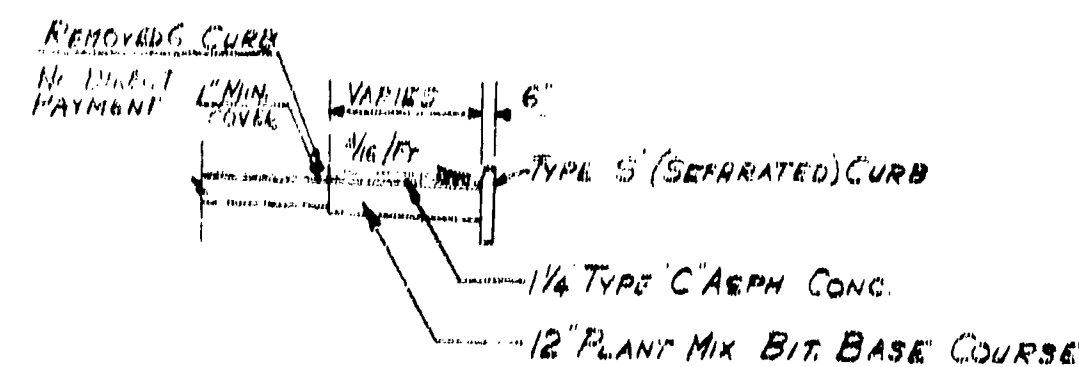
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 ORIG. PROJ. NR. M61-H2
 ORIG. PROJ. NR. H 61-1
 ORIG. PROJ. F.A.P. 61-F
 ORIG. PROJ. R-24 SECT. 2
 ORIG. PROJ. F.A.P. 61-A



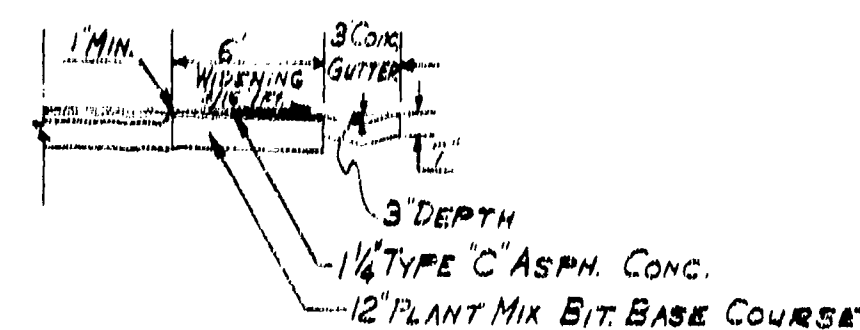
70

JOB NO.	STATE	JOB NO.	DATE	SHEET NO.
7	MO.	4-24-121	2	2
4	JACKSON	24		

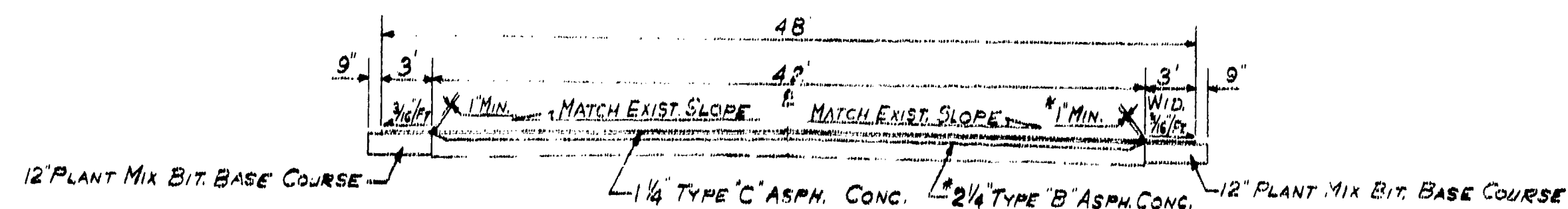
FINAL PLANS



STA. 63± R.T.

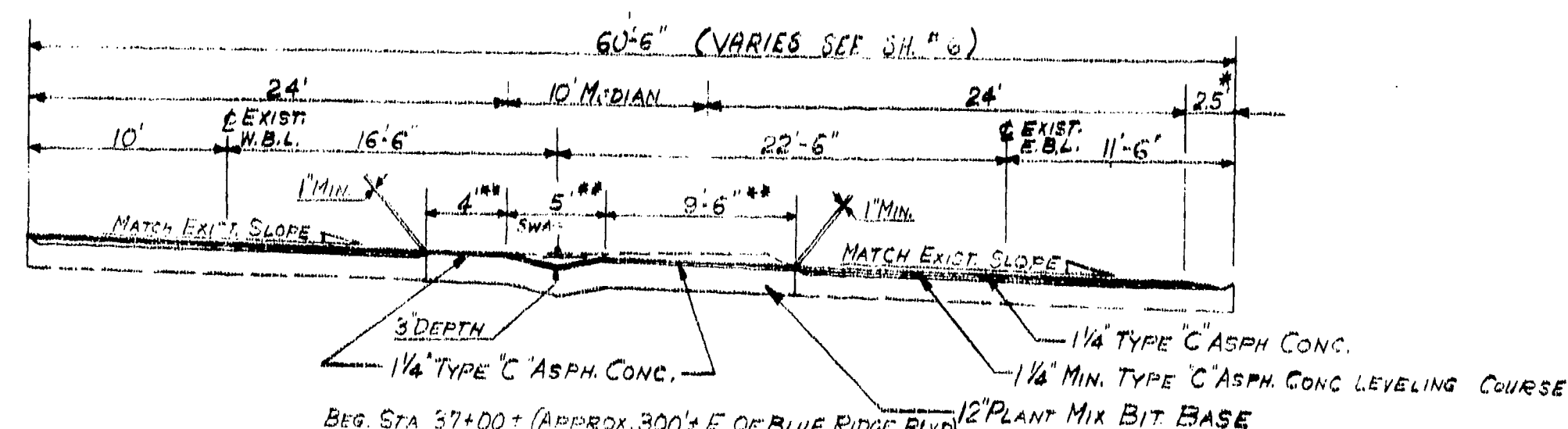


STA. 64± R.T.



STA 64+40 TO STA 65+90 TRANSITION WIDENING FROM 0' TO 3' LT.
 STA 64+40 TO STA 65+90 TRANSITION WIDENING FROM 6' TO 3' RT.
 STA 65+90 TO STA 68+76.6 BK. WIDEN 3' LT. & RT.
 EQUATION: STA 68+76.6 BK. = STA 28+59.5 AL.
 STA 28+59.5 AL. TO STA 34+40 WIDEN 3' LT. & RT.
 STA 34+40 TO STA 35+20 TRANSITION WIDENING FROM 3' TO 0' LT.

* VARY THICKNESS TO PROVIDE 1\"/>



BEG. STA 37+00± (APPROX. 300± E. OF BLUE RIDGE BLVD.)
 TO STA 66+57± (WEST END ROCK CREEK BRIDGE.)

BEG. STA 67+67± (EAST END ROCK CREEK BRIDGE)
 TO STA 75+ (INTERSECTION @ BROOKSIDE)

* NO GUTTER SECTION RIGHT STA. 47+90± TO STA 51+24± (LEXINGTON AVE. & KENTUCKY ST.)
 STA. 53+20± TO STA 53+89± (TENNESSEE ST.)

** OMIT BASE & 1/4\"/>

** WARP SWAG

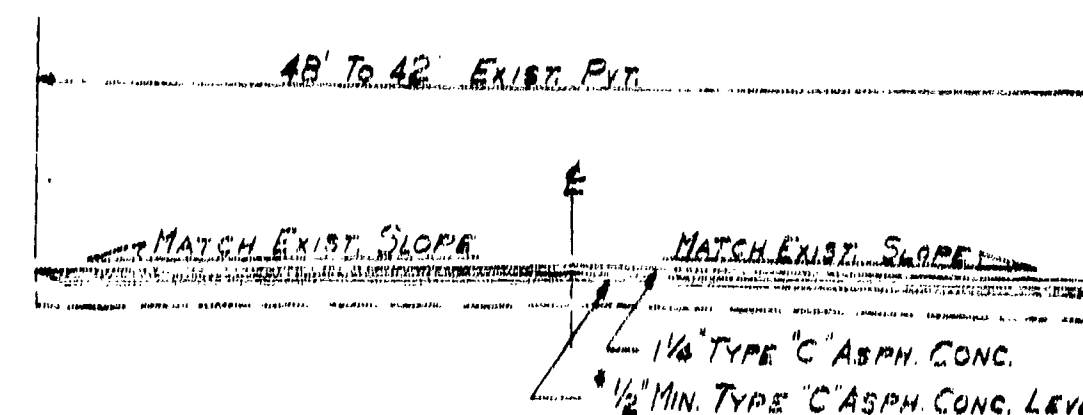
** OMIT SWAG

STA. 62+51± TO STA 66+57± (BRIDGE P.C.S.)
 STA. 67+67± TO STA 71+65± (BROOKSIDE INTERSECTION)
 STA. 47+35± TO STA 49+75± (MEDIAN CROSS-OVER, VICINITY OF LEXINGTON AVE. & KENTUCKY ST.)
 STA. 53+20± TO STA 53+95± (MEDIAN CROSS-OVER, VICINITY OF TENNESSEE ST.)
 STA. 58+00± TO STA 58+70± (MEDIAN CROSS-OVER, VICINITY OF PARK COURT)
 STA. 68+33± TO STA 75+10± (P.C. MEDIAN & BROOKSIDE INTERSECTION - SEE SHEET #6)
 AT THE FOLLOWING INLET LOCATIONS:
 STA. 47+40± (MEDIAN CROSS-OVER VICINITY OF LEXINGTON AVE.)
 STA. 58+03± (MEDIAN CROSS-OVER VICINITY OF TENNESSEE ST.)
 STA. 49+ TO 53+

Sht. 1 of 3

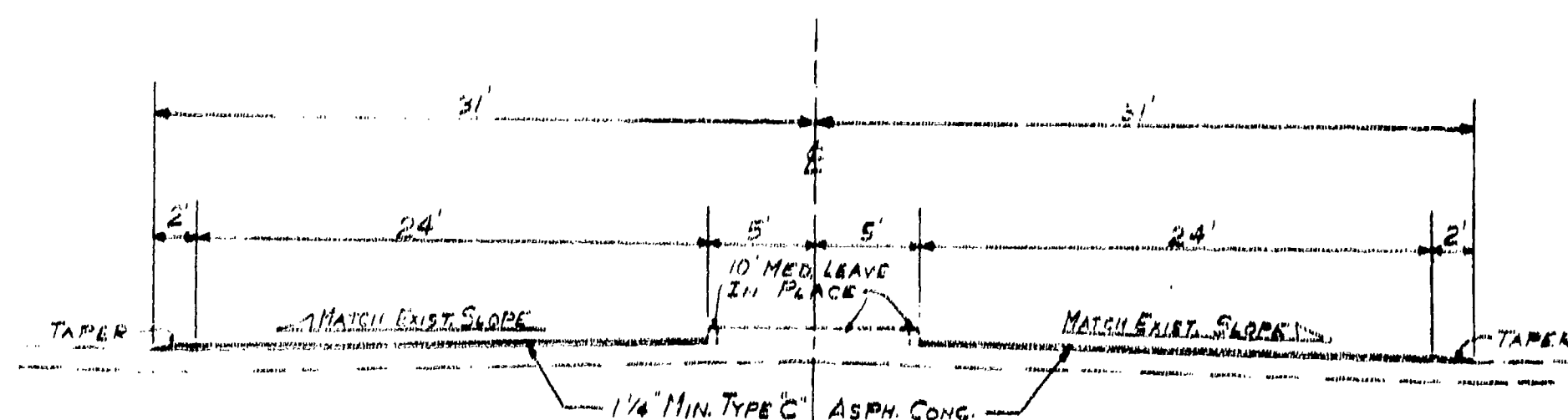
JOB NO.	STATE	JOB NO.	SHEET NO.
7	MO.	4-U-24-121	2
DATE	COUNTY	ROUTE	SECTION
4	JACKSON	24	

FINAL PLANS

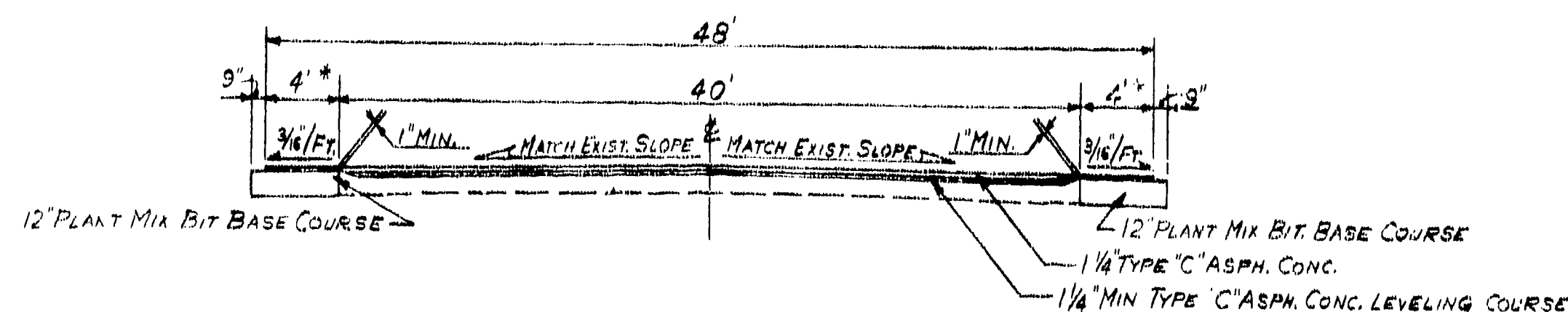


* Vary Thickness to provide new asphalt to top of lip curb.

STA. 78+ (W. SIDE R.I.) TO STA. 83+78.9 WIDTH VARIES 42' TO 48'
 STA. 83+78.9 (P.C. 500' ± EAST OF GLENWOOD) TO STA. 91+81.9 (P.T. 200' ± EAST OF ARLINGTON) WIDTH 48'
 STA. 91+81.9 (P.T. 200' ± EAST OF ARLINGTON) TO STA. 93+84.6 (P.C. 200' ± WEST OF OVERTON) WIDTH VARIES 48' TO 42'
 STA. 93+84.6 (P.C. 200' ± WEST OF OVERTON) TO STA. 107+ (WILSON RD. IN FAIRMOUNT) WIDTH 42'
 STA. 107+ TO STA. 109+50.1 (EAST OF WILSON RD.) 42' TO 55'



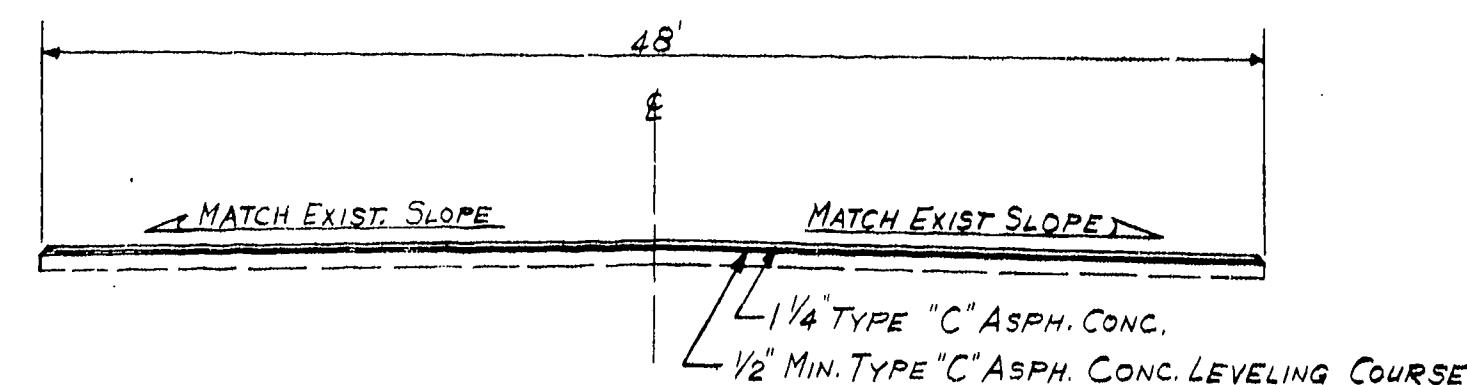
STA. 110+ (WILSON RD. IN FAIRMOUNT) TO 120+ (WEST OF NORTHERN)



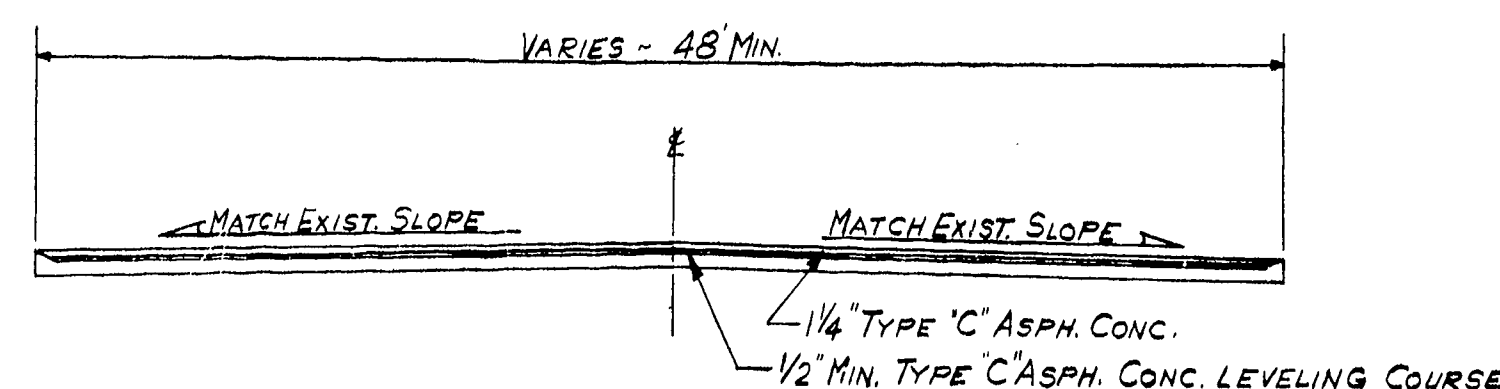
STA. 120+ (NORTHERN AVE.) TO STA. 138+36 (200' ± W. OF GRAND OR BEGINNING OF JOB NO. 4-X-24-210) (Slide Area Exceptions Sta. 177+25 to 182+44)
 * STA. 165+ (500' ± WEST OF FOREST) TO STA. 172+ (400' ± EAST OF FOREST) 4' TO 8' SEE SPEC. SHT.
 * SEE PLANS FOR WIDENING DETAILS AT NORTHERN, STERLING AND EX. #J-686
 STA. 217+ (SPRING CT.) TO STA. 219+51 (BEGINNING OF JOB NO. 4-X-24-211)
 STA. 241+60.5 (END OF JOB NO. 4-X-24-211) TO 73+00 (END PROJ.)
 * SEE PLANS FOR WIDENING AT KIGER AND SALISBURY

FED. ROAD DIST. NO.	STATE	JOB NO. 4-U-24-121	SHEET NO.
7	MO.	PROJECT NO. 4-U-24-121	2
SHT. NO.	COUNTY	SHEET	SEC.
4	JACKSON	24	

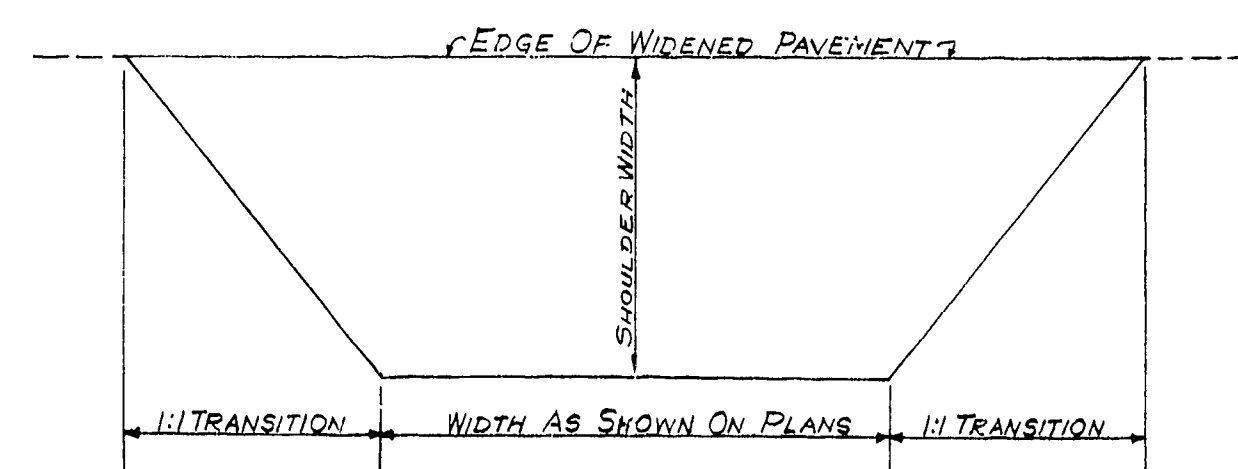
FINAL PLANS



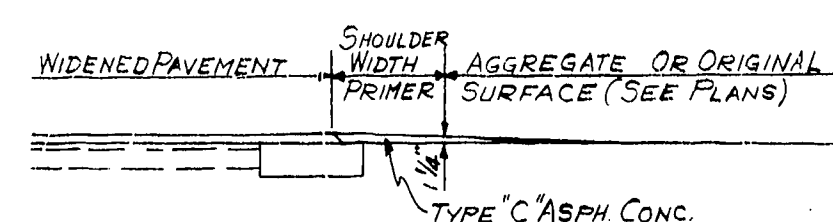
BETWEEN RAMPS AT TRUMAN LIBRARY INTERCHANGE
STA 198+ TO STA. 212+



STA 212+ (EAST RAMP NOSE TRUMAN LIBRARY INTERCHANGE) TO 217+ (SPRING STREET)

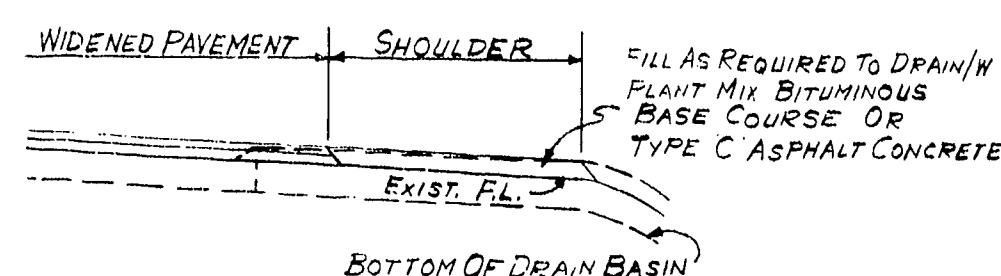


PLAN

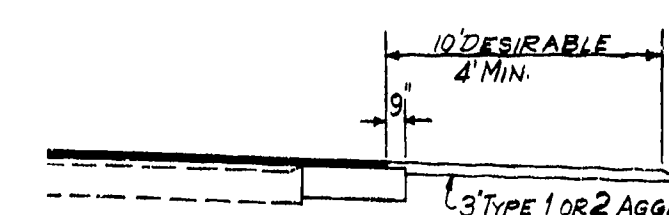


PROFILE

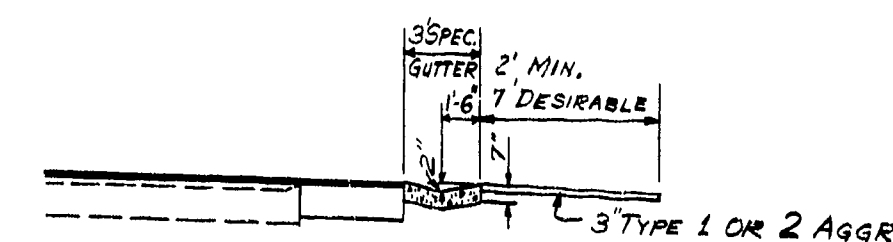
SURFACING REQUIREMENTS AT ENTRANCES & APPROACHES



FILLING EXISTING SURFACE DRAIN BASINS



CLEANED DITCHES AT LOCATIONS DIRECTED BY ENG.
NO DIRECT PAYMENT



SEE PLANS FOR SPECIAL GUTTER LOCATION
SEE STANDARD 603.00 FOR JOINT DETAILS

SHOULDER TREATMENT

MISSOURI STATE HIGHWAY COMMISSION SUMMARY OF QUANTITIES

Sheet 1 of 2

FED. ROAD DIVISION	STATE	PROJECT	SHEET NO.
5	MO.	4-U-24-121	24
DIST. NO.	COUNTY	ROUTE	
4	JACKSON	24	

ITEM	DESCRIPTION	UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
206-30.00	CLASS 3 EXCAVATION	CU YD	138
220-10.00	MOBILIZATION	LUMP SUM	1
301-10.00	ASPHALT CEMENT (BITUMINOUS BASE)	TON	0
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	0
304-99.99	TYPE 1 OR 2 AGGREGATE (1)	TON	5066
310-50.01	GRAVEL (A) OR CRUSHED STONE (B)	CU YD	8
403-60.00	ASPHALT CEMENT (ASPHALTIC CONCRETE) (2)	TON	1013.3
403-70.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE B MIX)	TON	859
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	20770
407-10.05	TACK COAT	(4) GALLON	3360
407-20.00	SANDING TACK	(5) CU YD	0
601-10.07	FIELD LABORATORIES	LUMP SUM	1
604-20.10	ADJUSTING MANHOLE	EACH	3
604-40.11	PIPE COLLAR, TYPE A	EACH	4
604-99.90	CAPPING INLETS	EACH	3
604-99.99	PIPE COLLAR, SPECIAL	EACH	3
606-10.10	GUARD RAIL TYPE A	LIN FT	613
606-10.30	GUARD RAIL TYPE C	LIN FT	0
606-21.00	BRIDGE ANCHOR SECTION (CURB TYPE)	EACH	0
606-30.00	TERMINAL SECTION	EACH	5
608-10.00	CONCRETE MEDIAN	SQ YD	25.7
608-20.04	CONCRETE MEDIAN, 4 FT WIDE	LIN FT	591
608-60.04	CONCRETE SIDEWALK, 4 IN.	SQ YD	27.3
609-10.11	CONCRETE CURB (OVER 6 IN. HEIGHT) TYPE S	LIN FT	1046
609-10.60	PAVED DITCH	SQ YD	32.3
609-30.10	ASPHALT CURB	LIN FT	226
609-99.99	CONCRETE GUTTER, SPECIAL	LIN. FT.	3821
612-10.30	MOVABLE BARRICADES	EACH	6
612-20.10	STANDARD CONSTRUCTION SIGNS	LUMP SUM	1
613-20.10	TEMPORARY PAVEMENT MARKING	MILE	5.3
614-10.10	GRATES AND BEARING PLATES	POUND	2970
614-30.13	MANHOLE FRAME AND COVER, TYPE 3	EACH	1
703-20.02	CLASS B CONCRETE (MISC)	CU YD	0.7
706-10.00	REINFORCING STEEL	POUND	0
725-10.15	15 IN. CORRUGATED GALVANIZED METAL PIPE	LIN FT	68
726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	206
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	14

ITEM	DESCRIPTION	UNIT	QUANTITY
733-10.30	PRECAST CONCRETE DROP INLET 3 FT X 2 FT-6 IN.	FT	3
733-10.42	PRECAST CONCRETE DROP INLET 4 FT X 2 FT	FT	5
733-10.52	PRECAST CONCRETE DROP INLET 5 FT X 2 FT	FT	19
803-10.00	SODDING	SQ YD	988
805-10.00	SEEDING	ACRE	0.9
999-20.00	LEFT TURN ARROWS	EACH	5
999-40.00	WHITE TRAFFIC LINE	100 L.F.	3.5
	TRAFFIC SIGNALS		
902-01.13	SIGNAL HEAD, TYPE 3T	EACH	1
902-02.13	SIGNAL HEAD, TYPE 3S	EACH	2
902-05.13	SIGNAL HEAD, TYPE 3B	EACH	7
902-27.10	POST, 10 FT SIGNAL	EACH	1
902-32.26	POST, TYPE C-2, 26A	EACH	1
902-32.30	POST, TYPE C-2, 30A	EACH	1
902-33.01	POST TYPE B 26E, 14K.	EACH	1
902-39.80	CONTROLLER, TYPE M-M	EACH	1
902-51.25	CONDUIT, 1 1/4 IN. RIGID STEEL, IN TRENCH	LIN FT	574
902-51.50	CONDUIT, 1 1/2 IN. RIGID STEEL, IN TRENCH	LIN FT	0
902-52.00	CONDUIT, 2 IN. RIGID STEEL, IN TRENCH	LIN FT	82
902-53.00	CONDUIT, 3 IN. RIGID STEEL, IN TRENCH	LIN FT	25
902-72.00	CONDUIT, 2 IN. RIGID STEEL, PUSHED	LIN FT	283
902-82.08	CABLE, 8 AWG 1 CONDUCTOR, POWER	LIN FT	150
902-83.07	CABLE, 12 AWG 7 CONDUCTOR	LIN FT	1,740
902-86.00	POWER SUPPLY ASSEMBLY	EACH	1
902-87.30	30 FT SERVICE POLE	EACH	1
902-89.00	JUNCTION BOX	EACH	4
902-90.01	BITUMINIZED FIBER PULL BOX, TYPE I	EACH	2
902-91.00	BASE, CONCRETE	CU YD	7.9
	BRIDGE DWG. NO. K-653R AT STA. 66+57.50		
202-99.95	SPECIAL WORK (SEE SPECIAL PROVISIONS)	LUMP SUM	1
403-60.00	ASPHALT CEMENT (ASPHALTIC CONCRETE)	TON	5.4
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	115
409-20.32	COVER AGGREGATE GRADE 3	TON	11.0
409-99.95	BITUMINOUS MATERIAL (SEAL COAT) ASPH. CEMENT (120-150 PENETRATION)	GAL.	300
703-99.95	CLASS B1 CONCRETE (HALF SOLING)	CU. YD.	50.0
703-99.95	REPAIRING CONCRETE DECK	SQ FT.	2594.0

ITEM	DESCRIPTION	UNIT	QUANTITY
703-99.96	FULL DEPTH REPAIR	SQ. FT.	83.0
	BRIDGE DWG. NO. K-442R AT STA. 101+86.65		
202-99.95	SPECIAL WORK	LUMP SUM	1
403-60.00	ASPHALT CEMENT (ASPHALTIC CONCRETE)	TON	8.0
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	181.0
409-20.32	COVER AGGREGATE GRADE 3	TON	20.0
409-99.95	BITUMINOUS MATERIAL (SEAL COAT) ASPH. CEMENT (120-150 PENETRATION)	GAL.	530
703-99.95	REPAIRING CONCRETE DECK (HALF SOLING)	SQ. FT.	3540
703-99.96	FULL DEPTH REPAIR	SQ FT.	23
703-99.97	SIDEWALK REPAIR	SQ FT.	493
	BRIDGE DWG. NO. J-686R AT STA. 133+97.19		
202-99.95	SPECIAL WORK	LUMP SUM	1
403-60.00	ASPHALT CEMENT (ASPHALTIC CONCRETE)	TON	2.8
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	59
409-20.32	COVER AGGREGATE GRADE 3	TON	6.0
409-99.95	BITUMINOUS MATERIAL (SEAL COAT) ASPH. CEMENT (120-150 PENETRATION)	GAL.	170
703-99.95	REPAIRING CONCRETE DECK (HALF SOLING)	SQ FT.	121
703-99.96	FULL DEPTH REPAIR (DECK GIRDER SPAN)	SQ. FT.	0
703-99.97	FULL DEPTH REPAIR (SLAB SPANS)	SQ FT.	0
	BRIDGE DWG. NO. L-840R AT STA. 204+83.4		
202-99.95	SPECIAL WORK	LUMP SUM	1
403-60.00	ASPHALT CEMENT (ASPHALTIC CONCRETE)	TON	5.0
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	109
409-20.32	COVER AGGREGATE GRADE 3	TON	12.0
409-99.95	BITUMINOUS MATERIAL (SEAL COAT) ASPH. CEMENT (120-150 PENETRATION)	GAL.	340
703-99.95	REPAIRING CONCRETE DECK (HALF SOLING)	SQ. FT.	132
703-99.96	FULL DEPTH REPAIR	SQ FT.	0
	CONTINGENT ITEMS		
50101	ASPHALT CEMENT (ASPH. CONC.)	TON	709.2
50102	MINERAL AGGREGATE (ASPH. CONC.) TYPE B	TON	15548
50103	STRUCT. 65+27	LUMP SUM	1
50104	STRUCT. 86+15	LUMP SUM	1
50105	STRUCT. 87+83	LUMP SUM	1
50106	REVISED ENTRANCES (F.A.)	LUMP SUM	9887.89
50107	TEMPORARY SURFACING	CU. YD.	96

Date of Final Acceptance: Nov. 11, 1977 Plans prepared by: Robert Mahan 11-30-77 CHECKED IN DISTRICT OFFICE BY Ed. K. Kipetich 12-14-77

Mark J. Luster 1-11-78

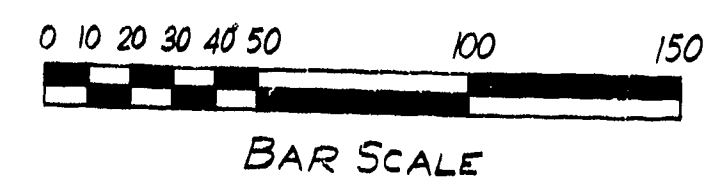
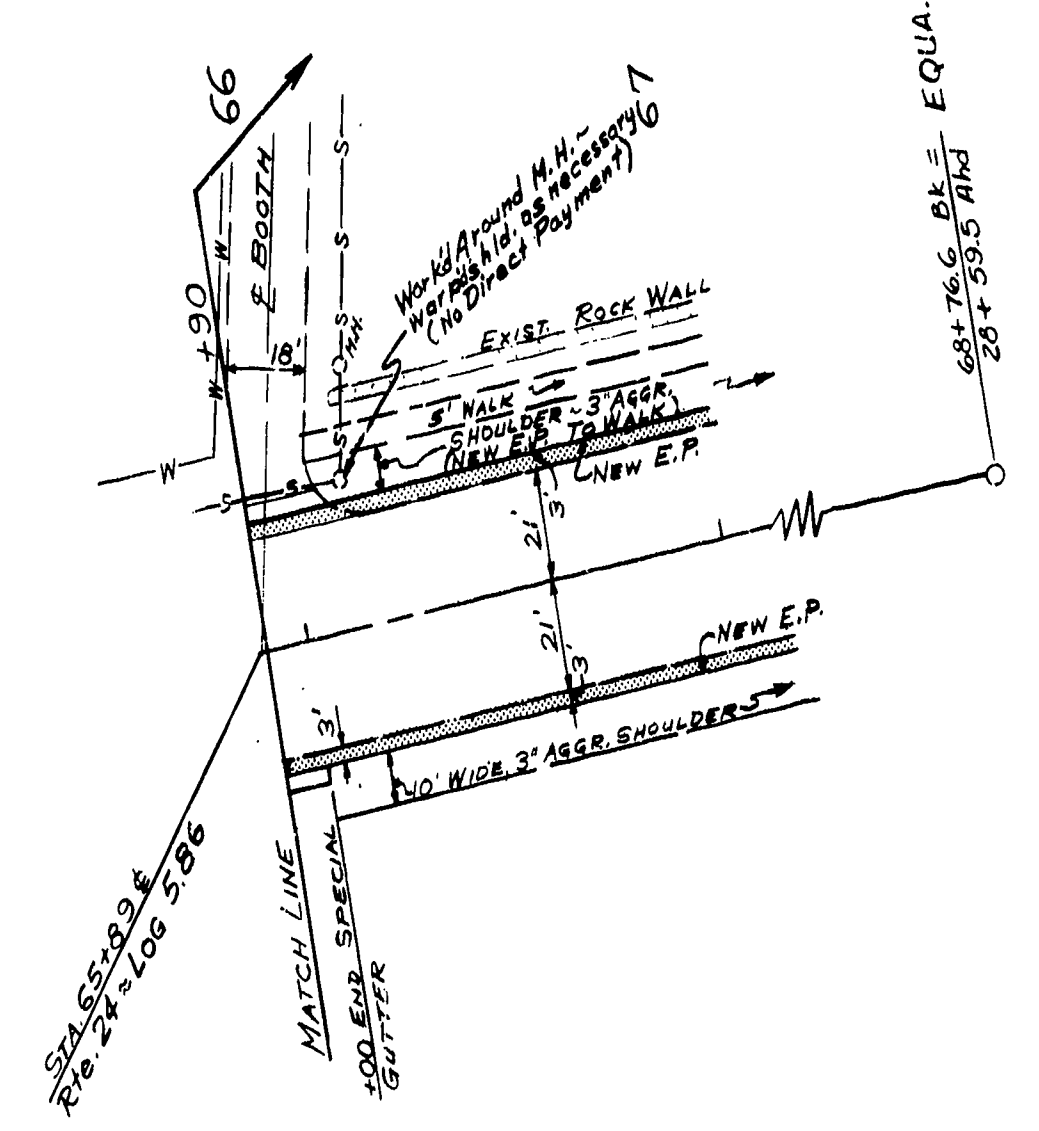
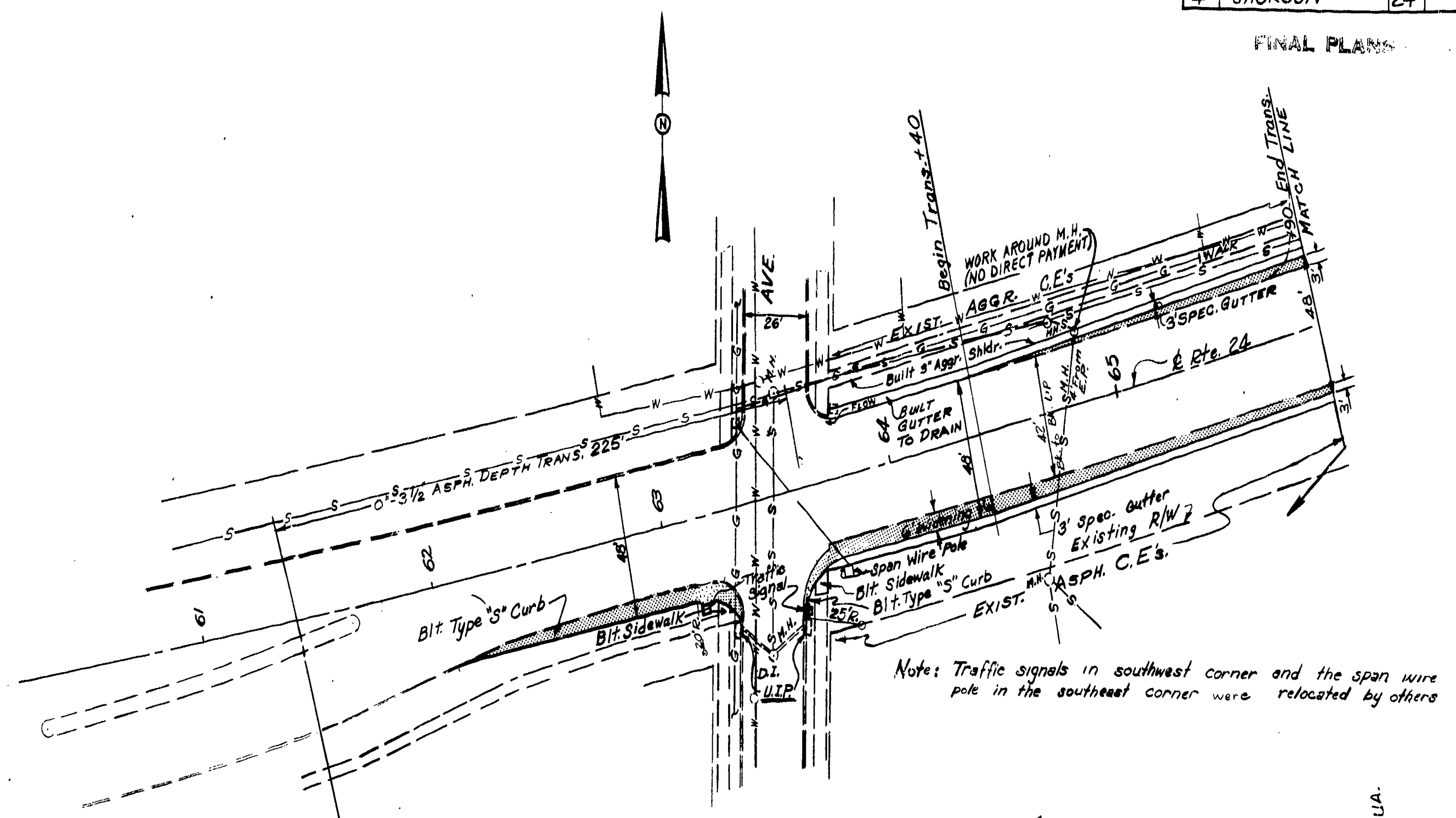
75

DESIGNED BY	DATE
CHECKED BY	DATE
IN CHARGE	DATE
APPROVED BY	DATE

DESIGNED BY	DATE
CHECKED BY	DATE
IN CHARGE	DATE
APPROVED BY	DATE

JOB NO.	4-U-24-121	SHEET NO.	3
PROJECT NO.	4-U-24-121	SEC.	
COUNTY	JACKSON	ROUTE	24

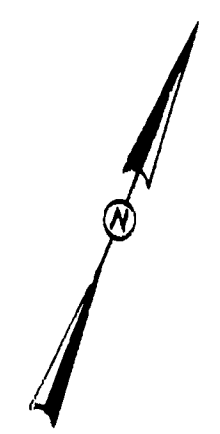
FINAL PLANS



EXIST. STA. 61+40 TO 68+

JOB NO.	STATE	JOB NO.	4-U-24-121	SHEET NO.
7	MO.	PROJECT NO.	4-U-24-121	4
DIST. NO.	COUNTY	SHEET	SHEET	SHEET
4	JACKSON	24		

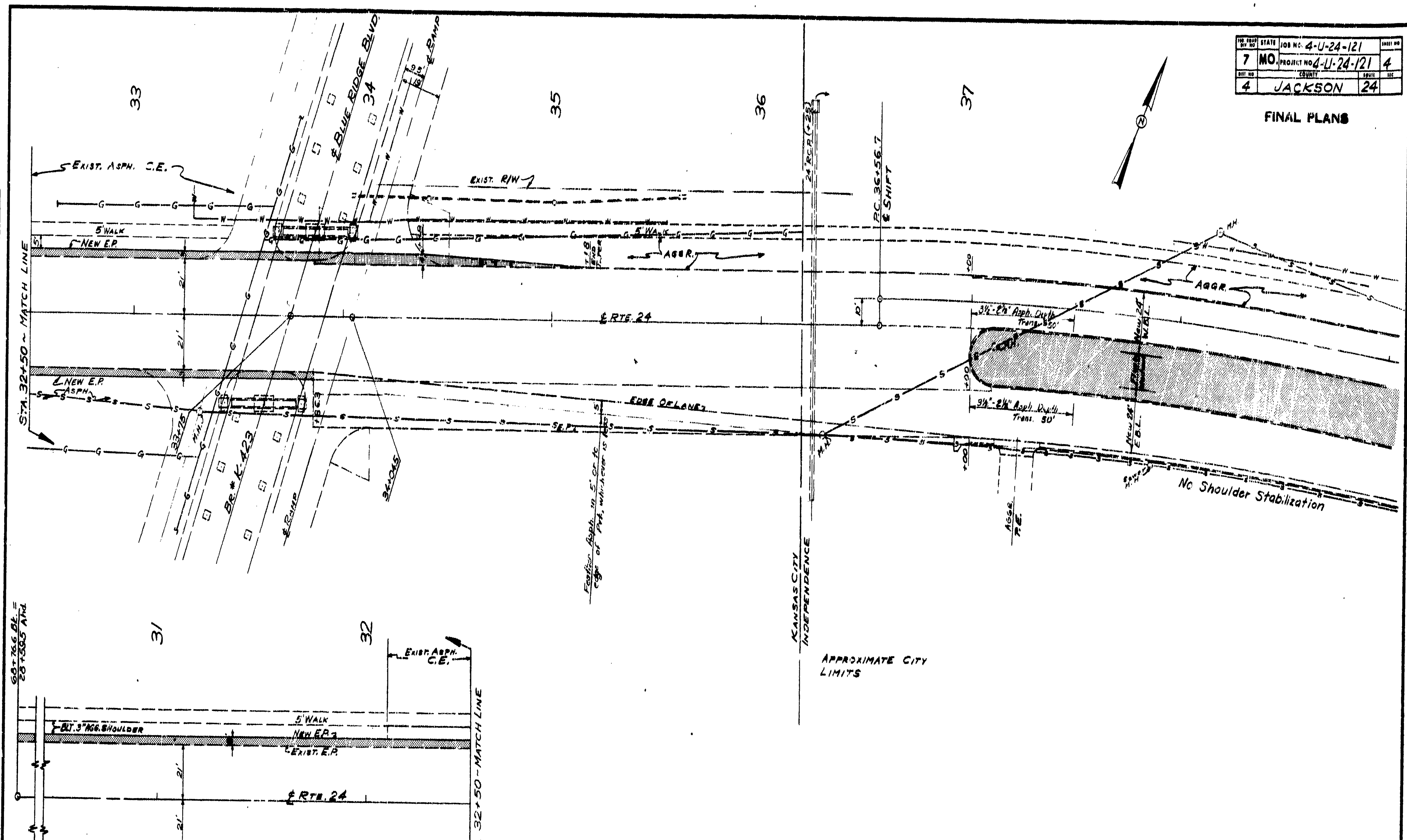
FINAL PLANS



DATE	
BY	
CHECKED	
APPROVED	
DESIGNED	
DRAWN	
IN CHARGE	

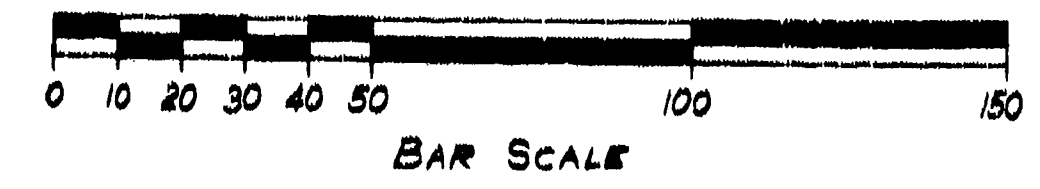
DATE	
BY	
CHECKED	
APPROVED	
DESIGNED	
DRAWN	
IN CHARGE	

76



UTILITY OWNERSHIPS

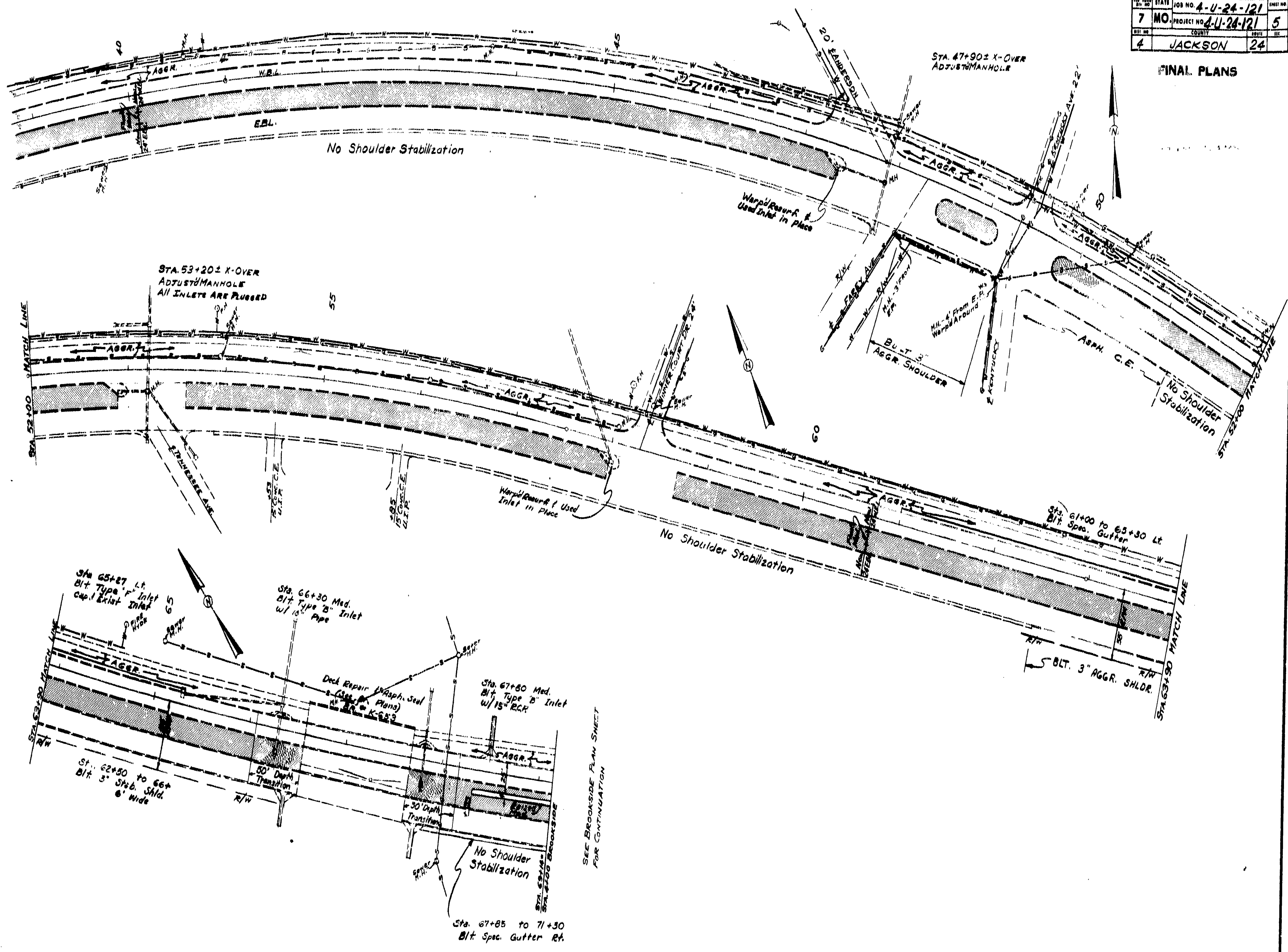
- | | |
|--------------------------------------|---|
| KANSAS CITY, MO. POWER AND LIGHT CO. | INDEPENDENCE, MO. POWER & LIGHT CO. (NO UNDERGROUNDS) |
| KANSAS CITY, MO. GAS SERVICE CO. | INDEPENDENCE, MO. GAS SERVICE CO. |
| KANSAS CITY, MO. WATER CO. | INDEPENDENCE, MO. WATER CO. |
| KANSAS CITY, MO. SANITARY SEWERS | INDEPENDENCE, MO. SANITARY SEWERS |
| | INDEPENDENCE, MO. SOUTHWESTERN BELL TELEPHONE CO. |



EXISTING STA. 68 + TO 39 +

JOB NO.	STATE	PROJECT NO.	SHEET NO.
7	MO	4-U-24-121	5
4	JACKSON	24	

FINAL PLANS



SEE BROOKSIDE PLAN SHEET FOR CONTINUATION

STA. 39+ TO 69+

22

Note: Remove
sodded concrete under islands

Job No. 4-U-24-121

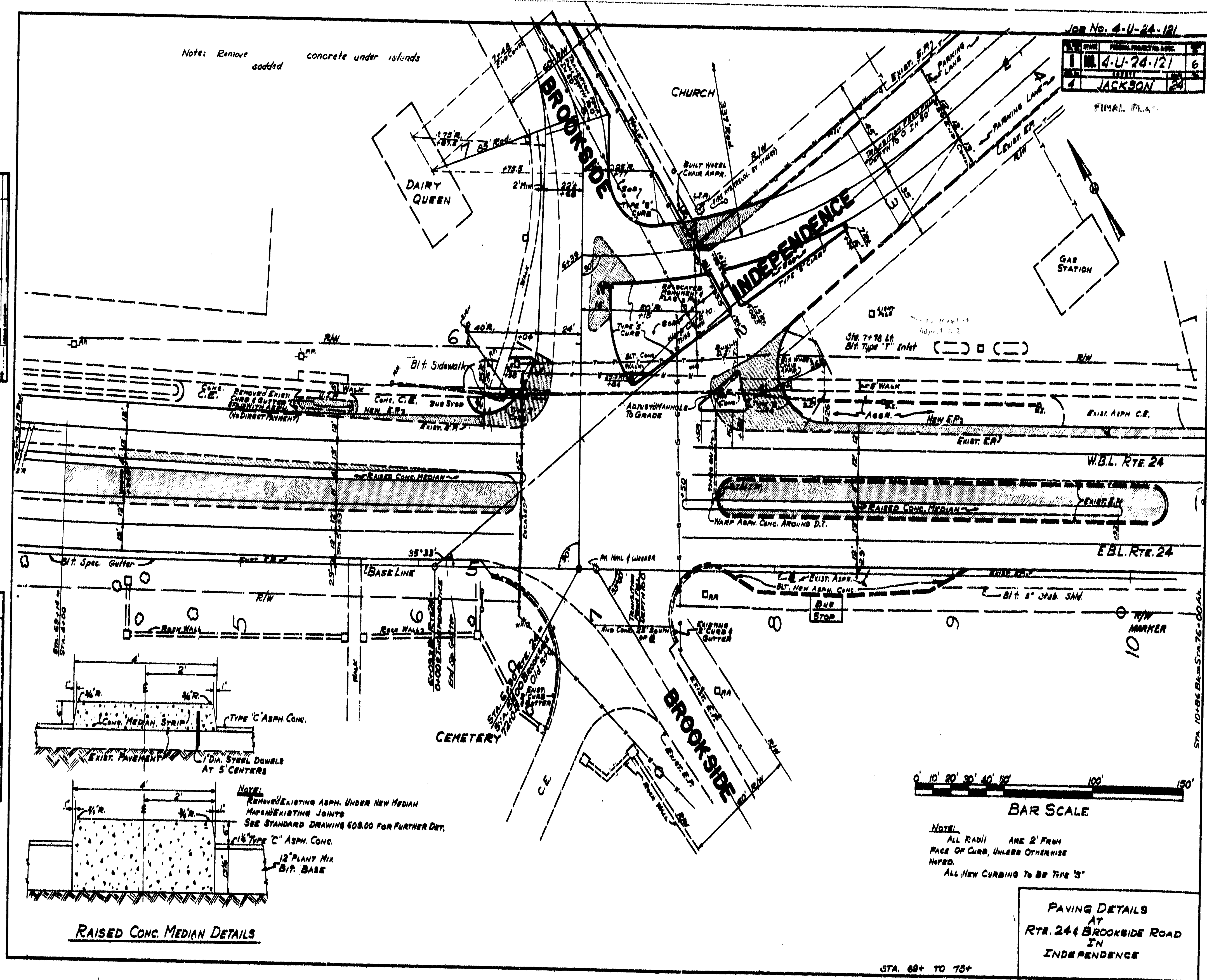
DATE	PROJECT	NO.
4-U-24-121		6
JACKSON		

FINAL PLAN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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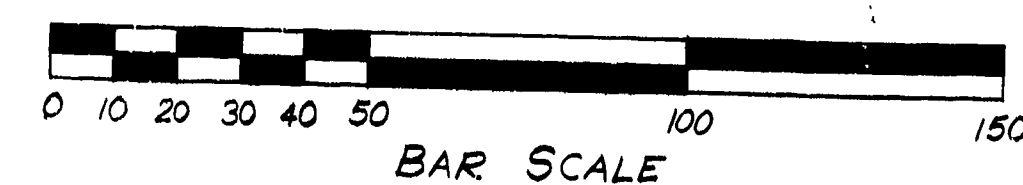
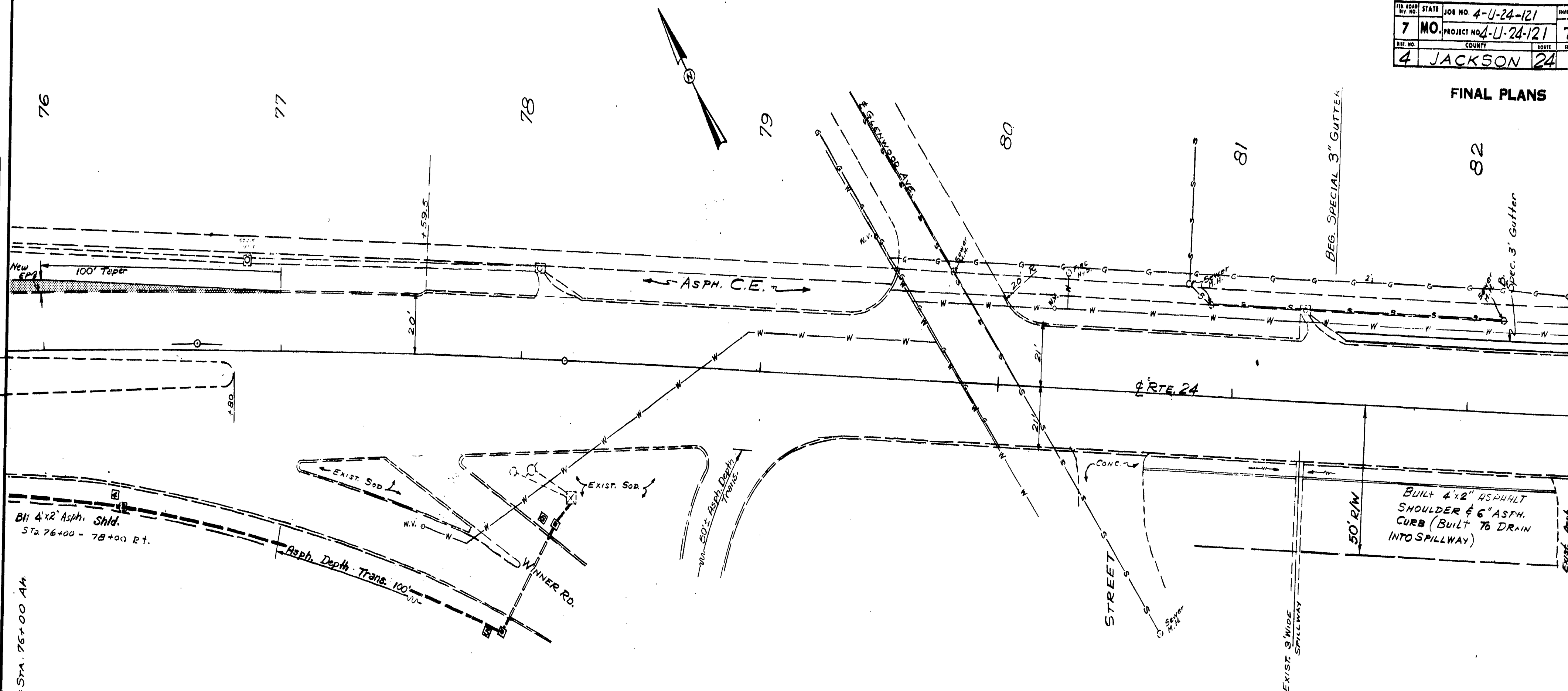
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78



FED. ROAD DIV. NO.	STATE	JOB NO. 4-U-24-121	SHEET
7	MO.	PROJECT NO. 4-U-24-121	7
DIST. NO.	COUNTY	ROUTE	SECTION
4	JACKSON	24	

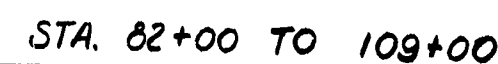
FINAL PLANS



STA. 76+ TO 82+

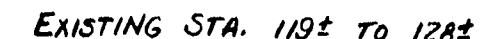
REQ. NO. 17 7137

FINAL SURVEY	SHEETED	BY	DATE
	PLATTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

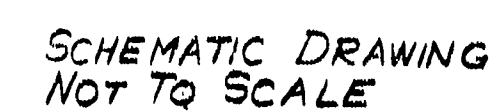
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JOB No. 4-U-24-121

10



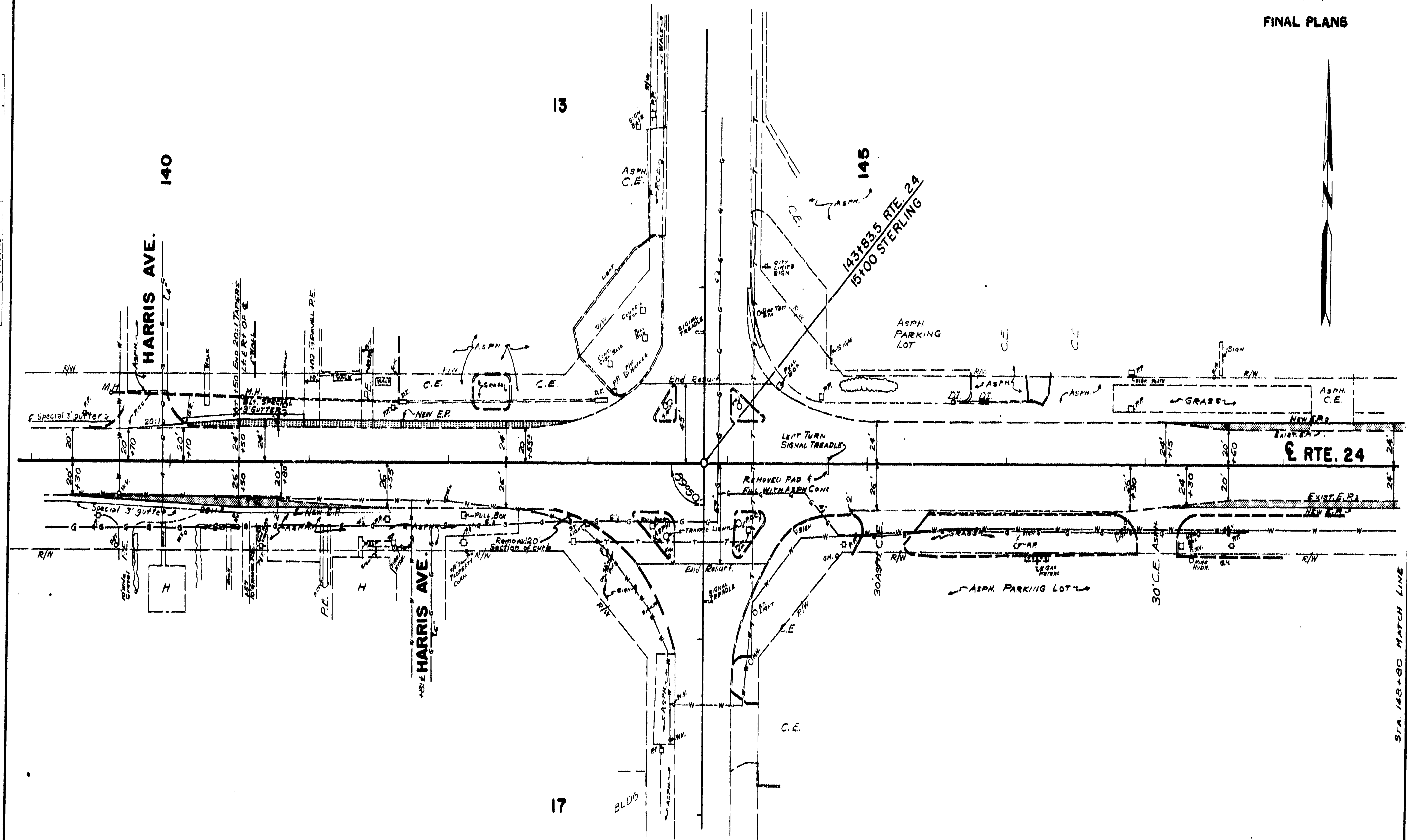
FINAL PLANS



STATE	FEDERAL PROJECT NO.	DATE
5 MO.	4-U-24-121	11
COUNTY	JACKSON	24

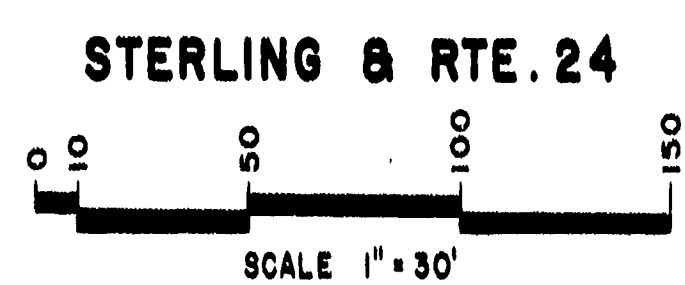
Job No. 4-U-24-121

FINAL PLANS



STA 148+80 MATCH LINE

STERLING



EXISTING STA. 139± TO 149±

83

DATE	NO.
11/11/11	1
11/11/11	2
11/11/11	3
11/11/11	4
11/11/11	5
11/11/11	6
11/11/11	7
11/11/11	8
11/11/11	9
11/11/11	10

DATE	NO.
11/11/11	1
11/11/11	2
11/11/11	3
11/11/11	4
11/11/11	5
11/11/11	6
11/11/11	7
11/11/11	8
11/11/11	9
11/11/11	10

84

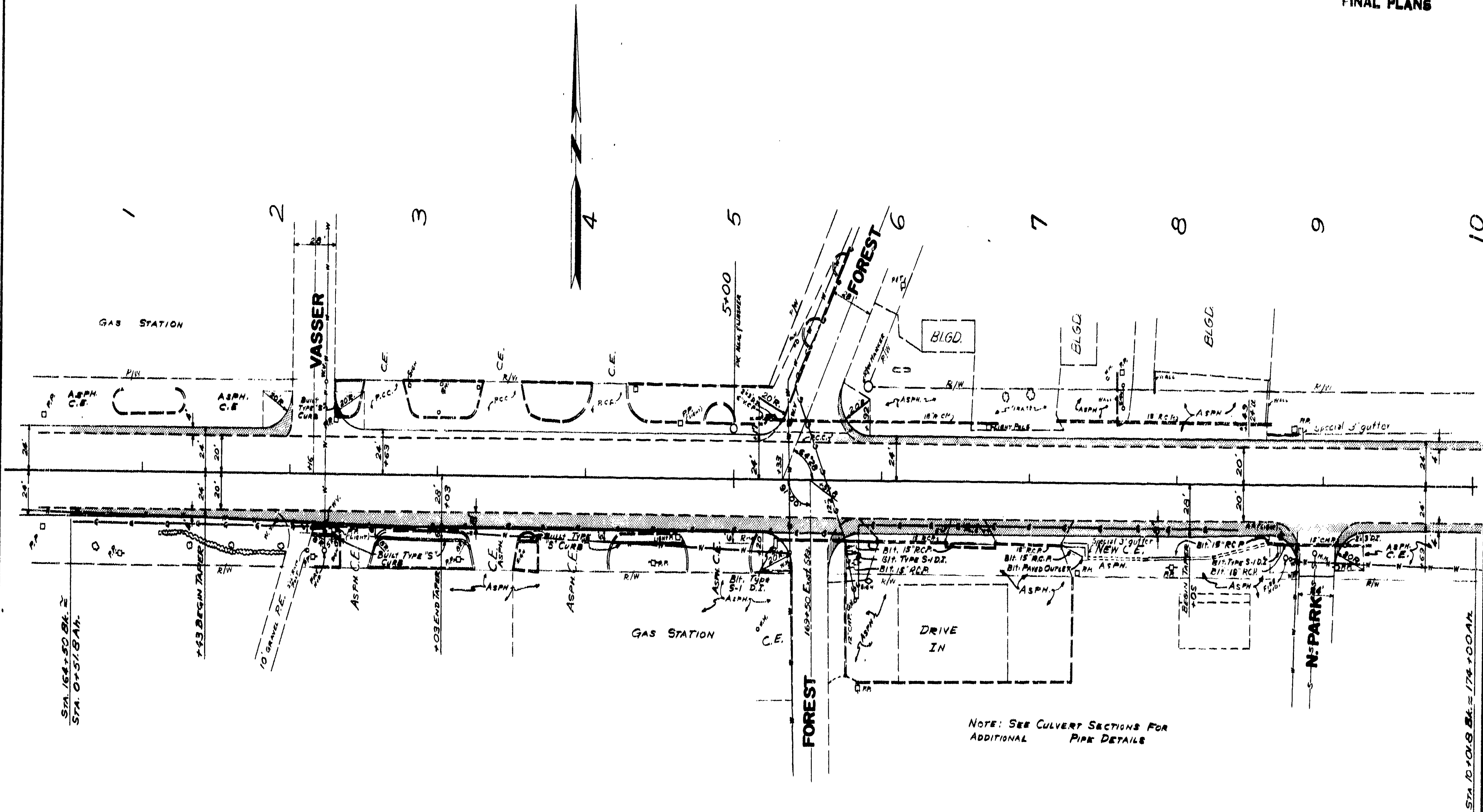
DESIGNED BY	DATE
CHECKED BY	
APPROVED BY	
IN CHARGE	

PROJECT NO.	DATE
PROJECT NAME	
PROJECT LOCATION	
PROJECT DESCRIPTION	

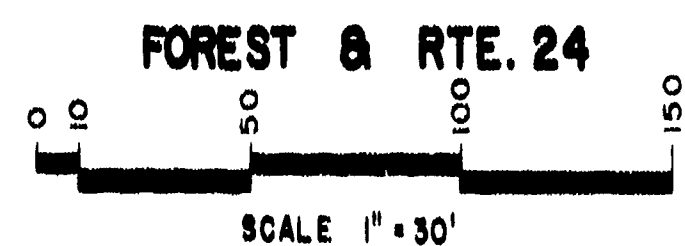
STATE	FEDERAL PROJECT NO.	DATE
5 MO.	4-U-24-121	12
COUNTY	JACKSON	24

Job No. 4-U-24-121

FINAL PLANS



NOTE: SEE CULVERT SECTIONS FOR
ADDITIONAL PIPE DETAILS



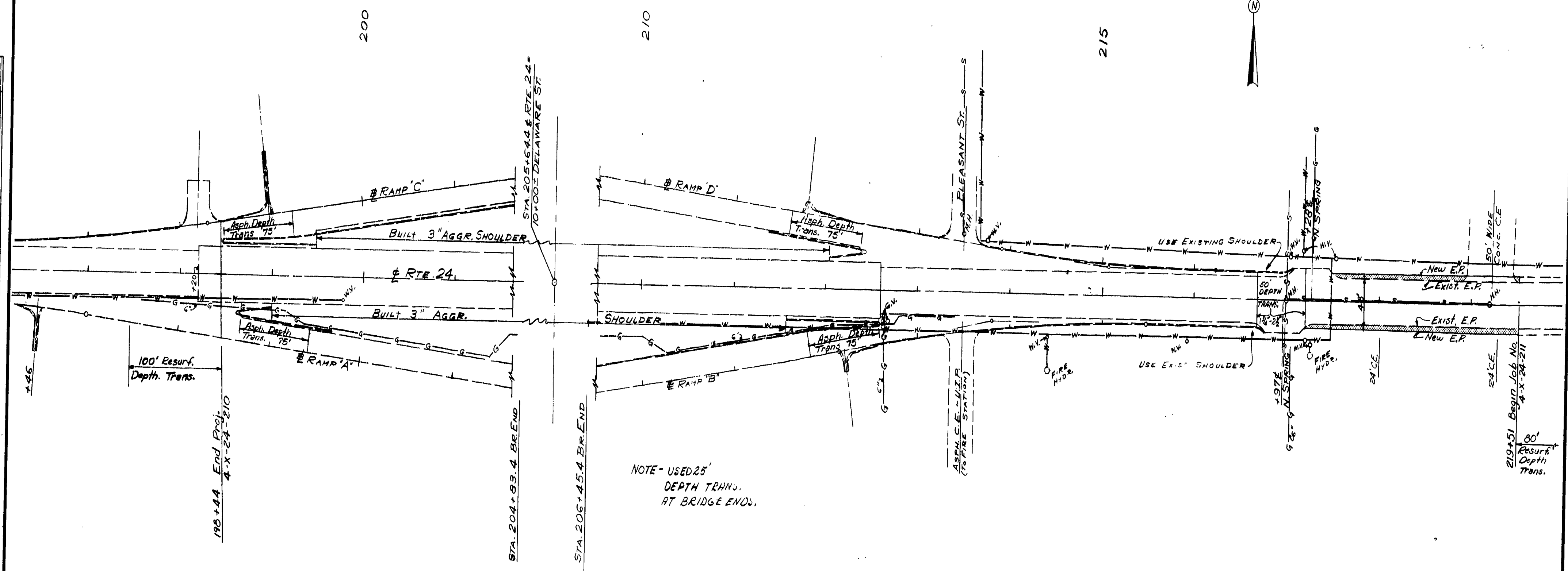
85

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT NO.	DATE
CONTRACT NO.	DATE
SHEET NO.	DATE

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT NO.	DATE
CONTRACT NO.	DATE
SHEET NO.	DATE

TEN ROAD	STATE	JOB NO.	4-U-24-121	SHEET NO.
7	MO.	PROJECT NO.	4-U-21-121	13
4	JACKSON	24		

FINAL PLANS



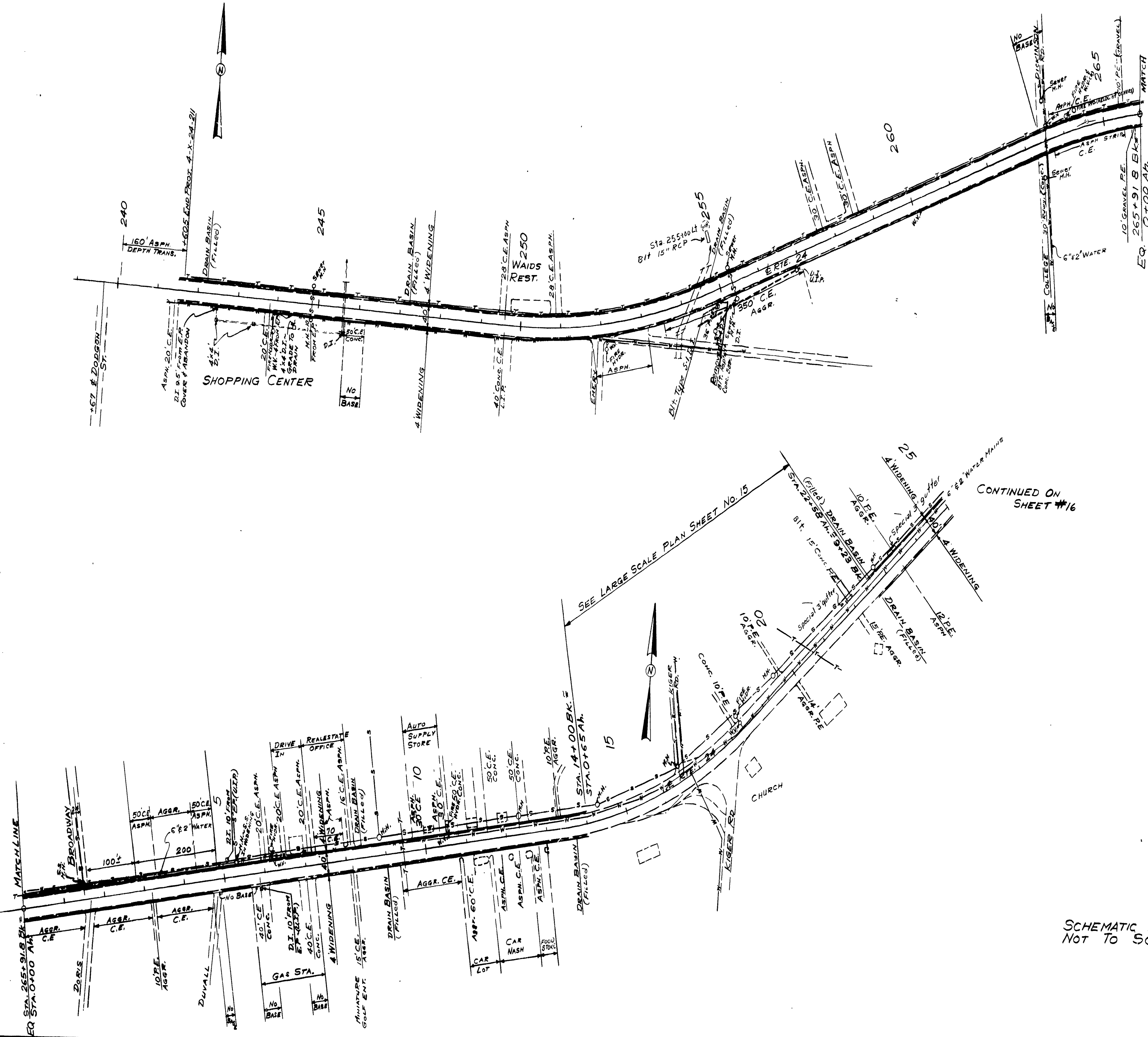
TRUMAN LIBRARY INTERCHANGE

EXISTING STA. 198± TO 220±

86

NO.	DATE	BY	REVISION
1			FINAL
2			REVISION
3			REVISION
4			REVISION
5			REVISION
6			REVISION
7			REVISION
8			REVISION
9			REVISION
10			REVISION

NO.	DATE	BY	REVISION
1			FINAL
2			REVISION
3			REVISION
4			REVISION
5			REVISION
6			REVISION
7			REVISION
8			REVISION
9			REVISION
10			REVISION



FILE NO.	STATE	JOB NO.	4-U-24-121	SHEET NO.
7	MO.	PROJECT NO.	4-U-24-121	14
4		COUNTY	JACKSON	24

FINAL PLANS

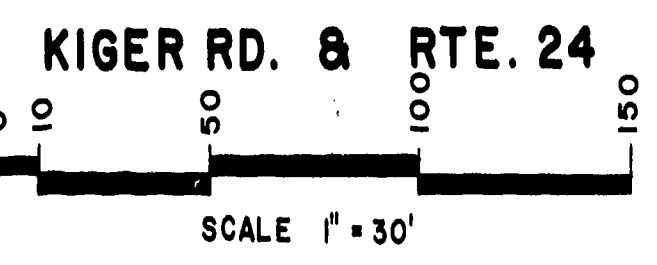
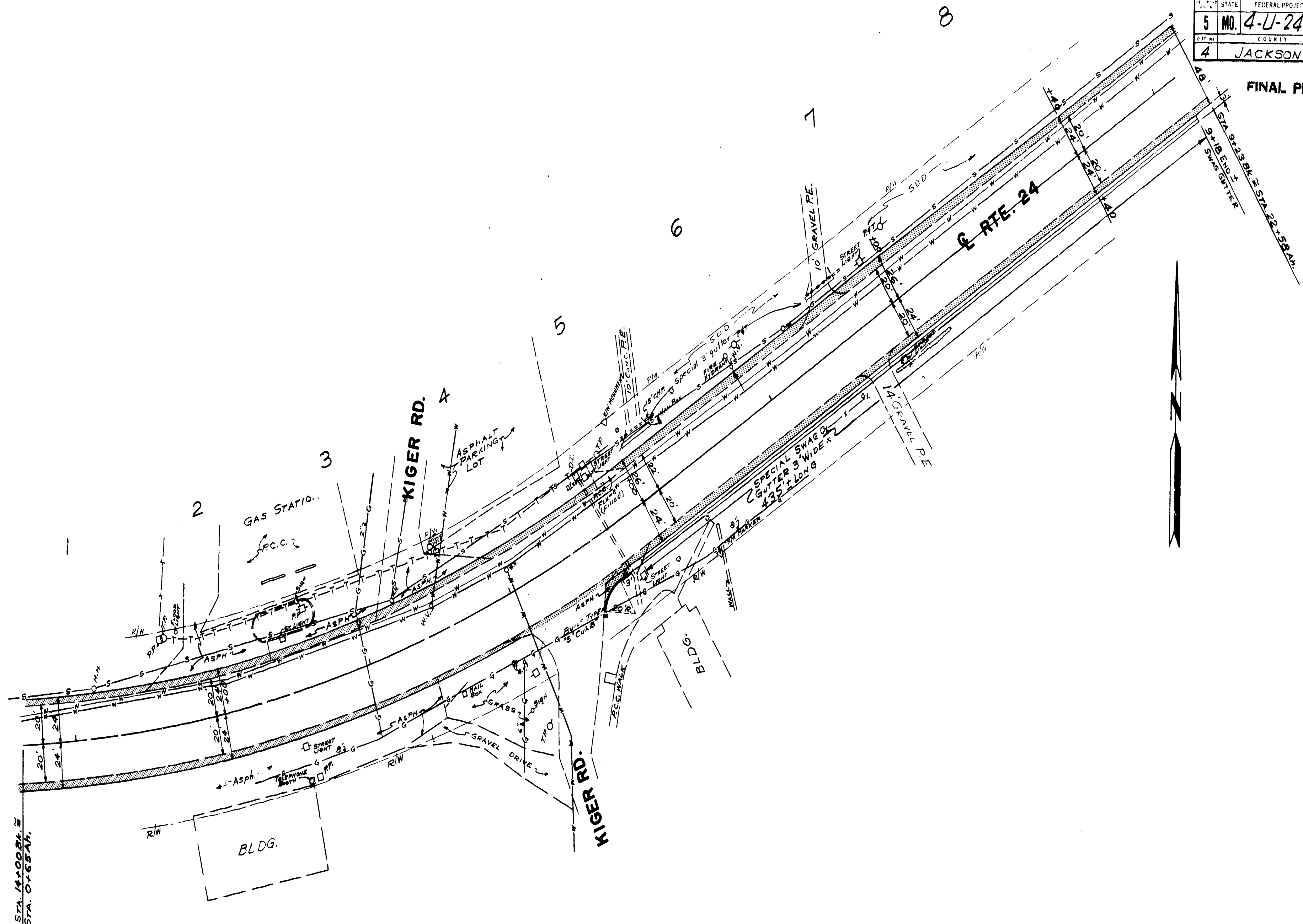
CONTINUED ON SHEET #16

SCHEMATIC DRAWING NOT TO SCALE

JOB No. 4-U-24-121

STATE	FEDERAL PROJECT NO. & SEC.	SHEET
MO.	4-U-24-121	15
COUNTY	DATE	
JACKSON	24	

FINAL PLANS



Exist. Sta. 14 to 22

FINAL SURVEY	DATE
NO. 1	

ORIGINAL SURVEY	DATE
NO. 1	

87

89

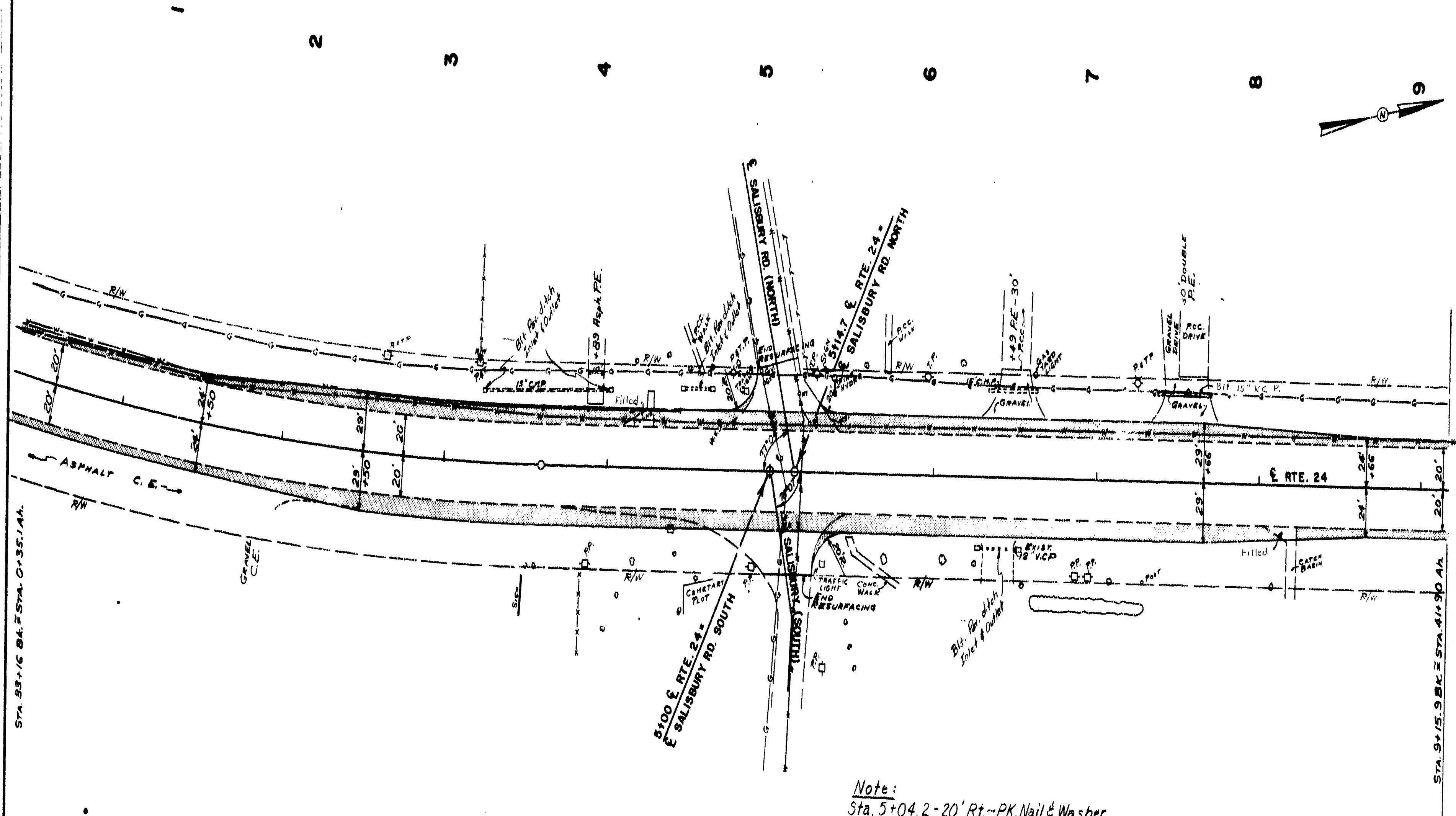
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

STATE	FEDERAL PROJECT NO. & S.D.	DATE
5 MO.	4-U-24-121	17
COUNTY	JACKSON	24

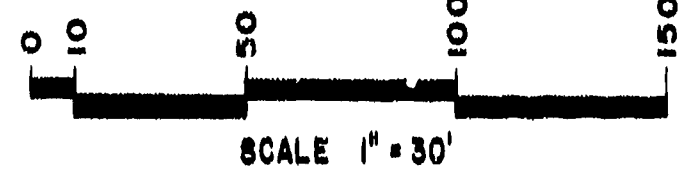
Job No. 4-U-24-121

FINAL PLANS



Note:
Sta. 5+04.2 - 20' Rt. - P.K. Nail & Washer
Sta. 5+10.1 - 20' Lt. - P.K. Nail & Washer

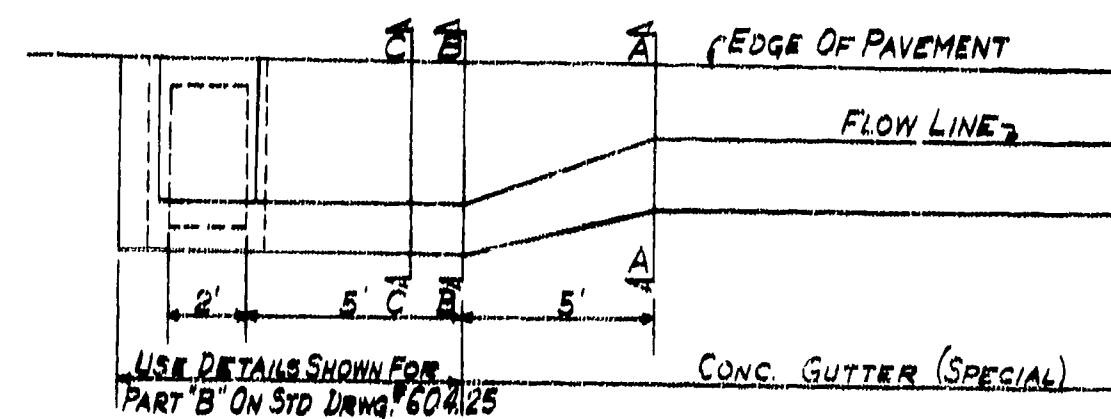
SALISBURY RD. & RTE. 24



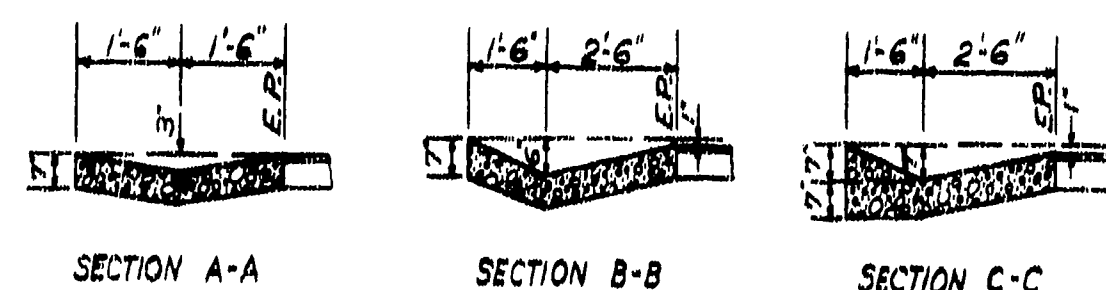
Exist. Sta. 33+ to 42

JOB NO.	STATE	JOB NO.	DATE	PROJECT NO.	DATE	PROJECT NO.	DATE
7	MO.	4-11-24-121	18	4	JACKSON	24	

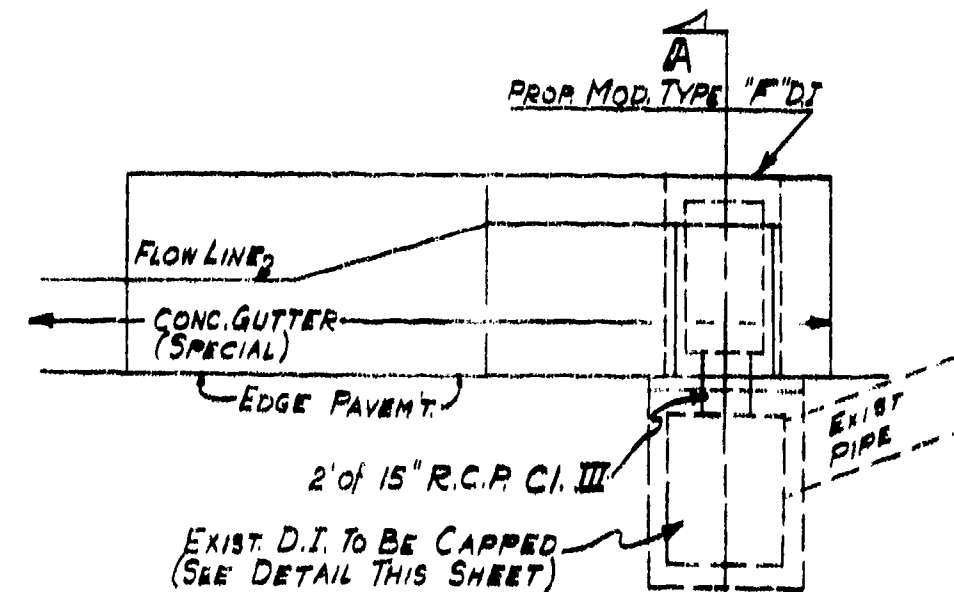
FINAL PLANS



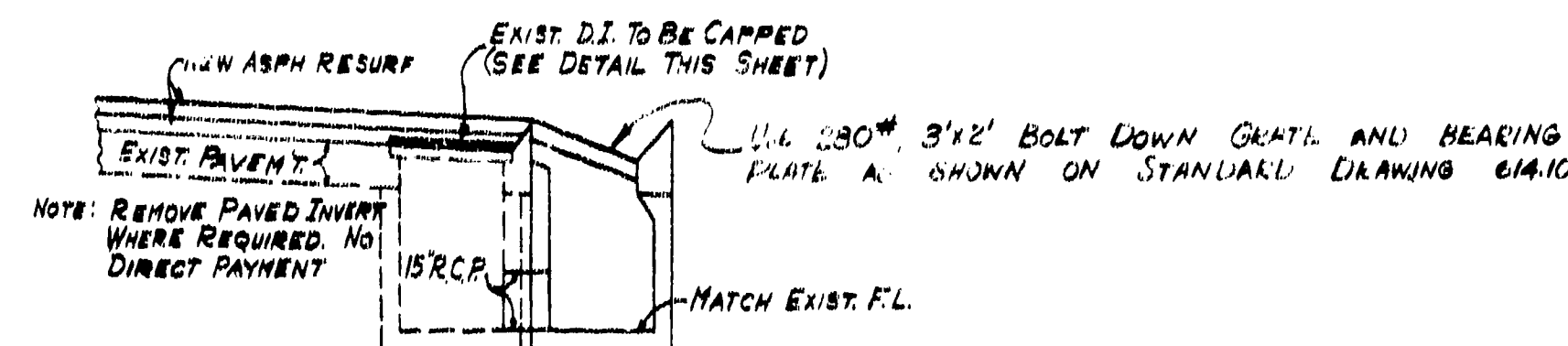
PLAN



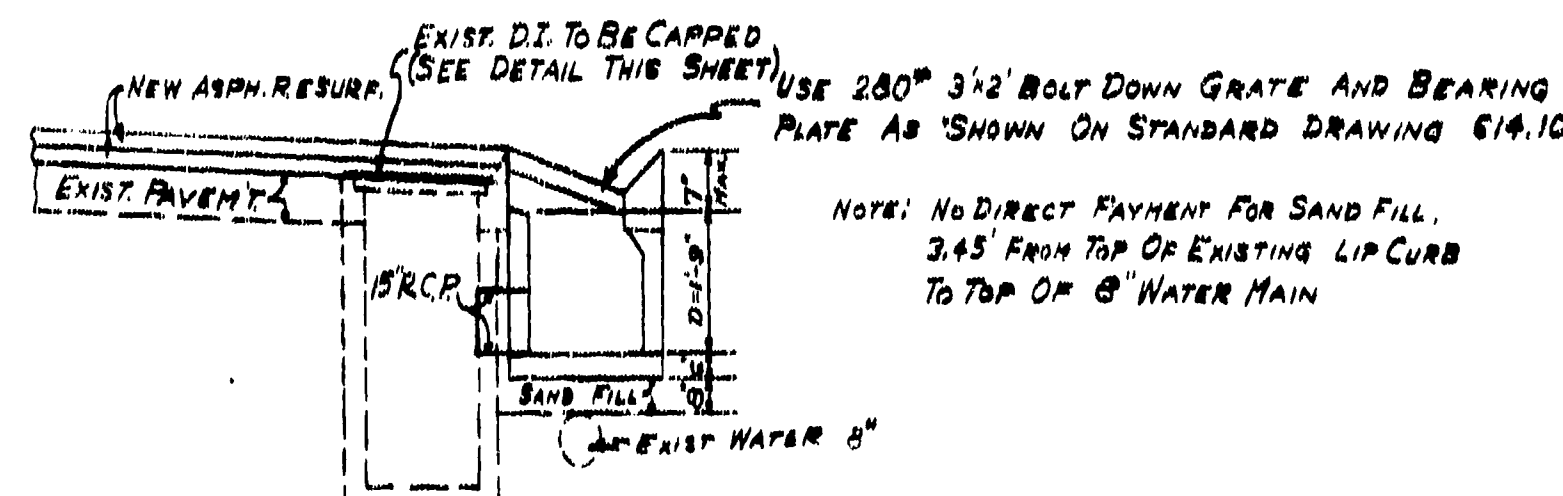
TYPICAL PLAN FOR MODIFIED TYPE 'F' DROP INLET & CONCRETE GUTTER TRANSITION



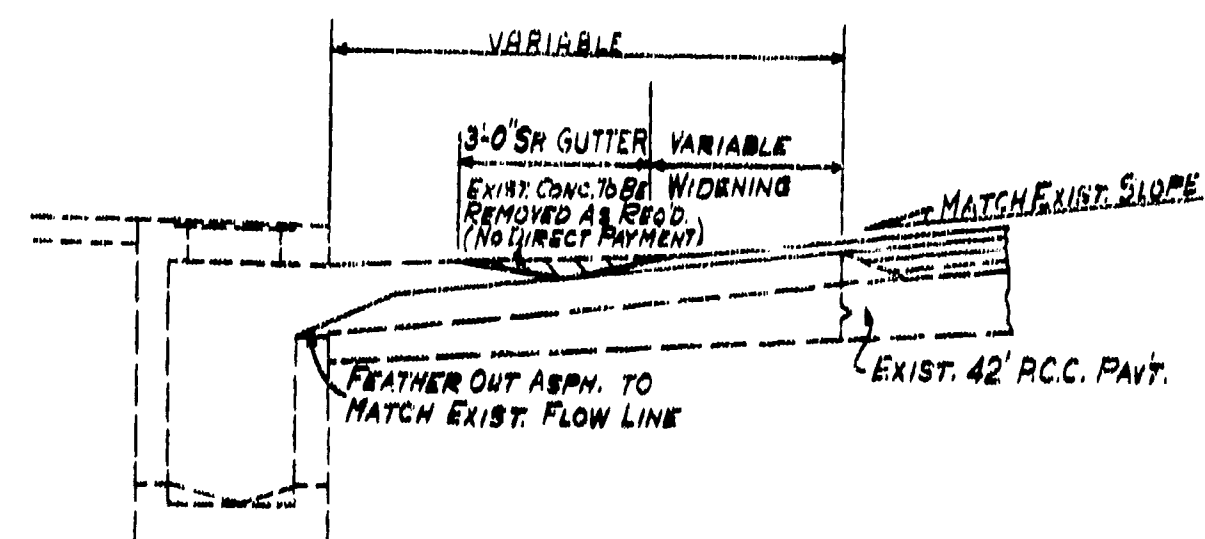
PLAN VIEW
MODIFIED TYPE 'F' DROP INLET



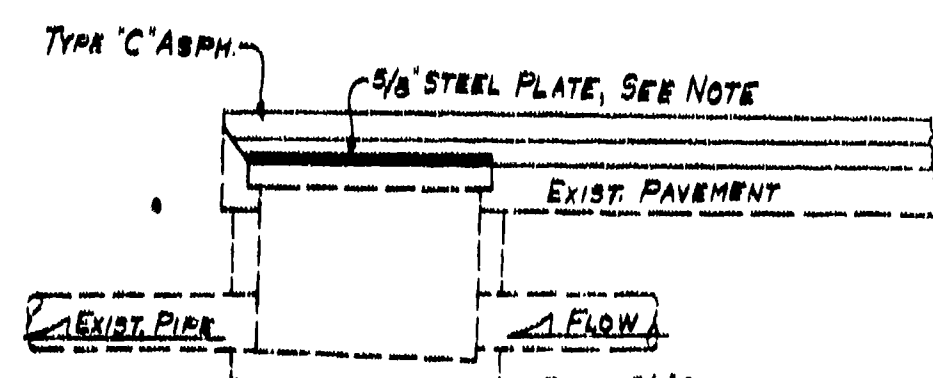
PROFILE SECTION A-A
MODIFIED TYPE 'F' DROP INLET



MODIFIED TYPE 'F' DROP INLET
STA. 86+15 L.F.

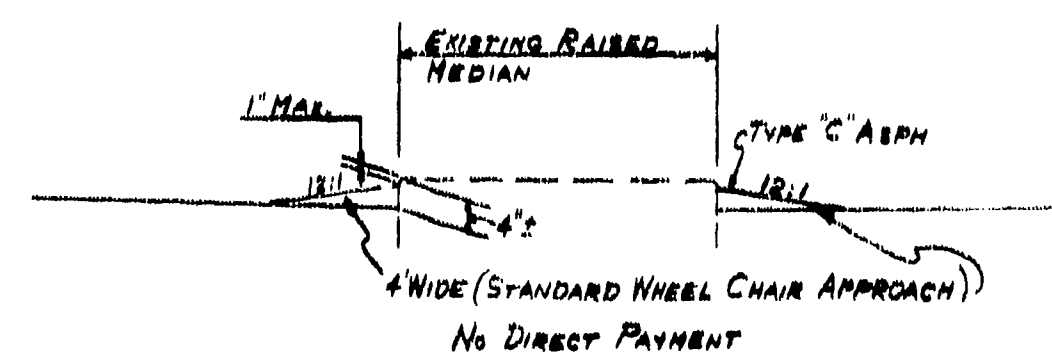


SPECIAL GUTTER DETAIL AT EXISTING DRAIN BASIN LOCATIONS
(SEE SHEET #2)



PLACE 5/8" STEEL PLATE, BOLT OR WELD TO GRATE AS DIRECTED BY ENGR. COST TO BE INCLUDED IN PRICE FOR OTHER ITEMS.

CAPPING EXISTING DROP INLETS



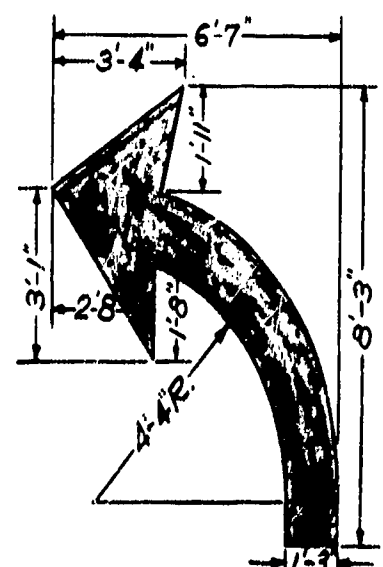
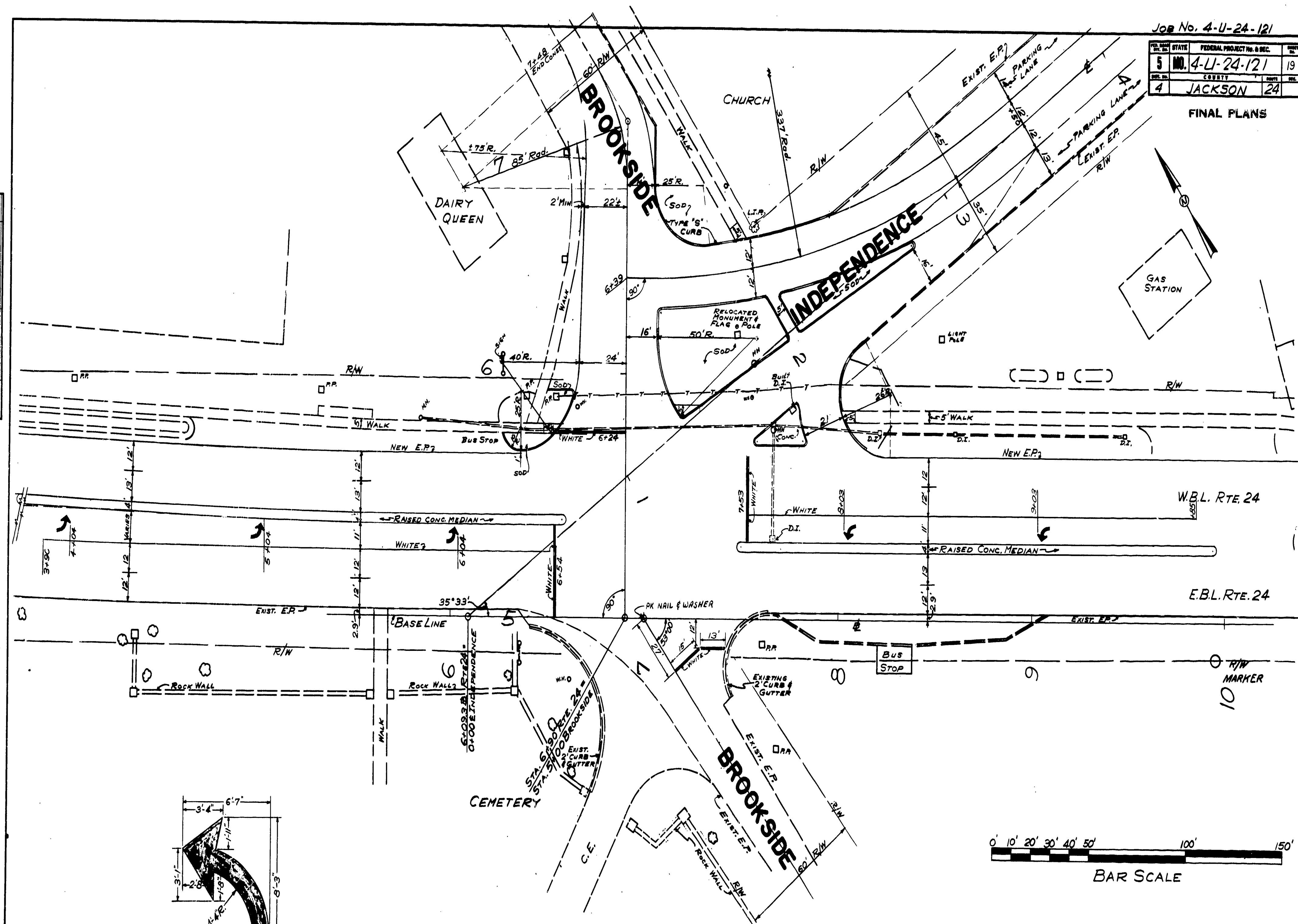
WHEEL CHAIR APPROACHES
IN FAIRMOUNT

MEDIAN X-OVER STA. 110+50± AT HUTTIG ST. (WEST SIDE)
MEDIAN X-OVER STA. 112± AT ASH ST. (EAST SIDE)
(IN PEDESTRIAN X-WALKS)

90

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	ROUTE NO.
5	MO.	4-L-24-121	19
SUP. NO.	COUNTY	ROUTE	SEC.
4	JACKSON	24	

FINAL PLANS





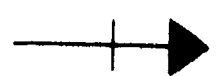


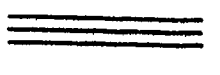


















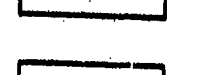
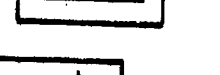
DETAIL FOR LEFT
TURN ARROW





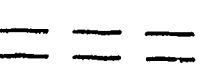
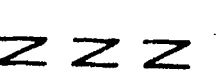

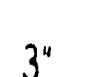





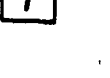


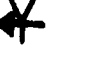









PERM. PAVEMENT MARKING
AT
RTE. 24 & BROOKSIDE ROAD
IN
INDEPENDENCE

TRAFFIC SIGNAL SYMBOLS

FED. ROAD DIST. NO.	STATE	JOB NO. 4-11-24-121	SHEET NO.
5	MO.	PROJECT NO. 4-11-24-121	20
COUNTY		EQUIP.	SEC.
4 JACKSON		24	

BROOKSIDE
FINAL PLANS

-  OPTICALLY LIMITING SIGNAL HEAD
-  SIGNAL HEAD
-  SIGNAL HEAD WITH BACKPLATE
-  SIGNAL HEAD-PEDESTRIAN
-  POST MOUNTED SIGNAL HEAD WITH SIGN
-  STOP LINE
-  LANE USE
-  TYPE A BASE
-  TYPE B BASE
-  TYPE C BASE
-  JUNCTION BOX
-  CONTROLLER
-  CONCRETE PULL BOX
-  CONCRETE PULL BOX (DOUBLE)
-  BITUMINOUS FIBER PULL BOX
-  SPAN WIRE WITH SIGNAL HEAD
-  MAST ARM WITH SIGNAL HEAD
-  MAST ARM WITH SIGNAL HEADS
-  MAST ARM WITH OVERHEAD SIGN
-  MAST ARM WITH ULTRA-SONIC DETECTOR (NARROW)
-  MAST ARM WITH ULTRA-SONIC DETECTOR (EXTENDED)
-  SIDE FIRE ULTRA-SONIC DETECTOR
-  NON-COMP. MAG. DETECTOR
-  PRES.-SENS. DET. NON-DIRECTIONAL
-  PRES.-SENS. DET. DIRECTIONAL
-  INDUCTION LOOP DETECTOR

-  PUSH BUTTON DETECTOR
-  SERVICE POLE AND POWER SUPPLY
-  RIGID STEEL CONDUIT IN TRENCH
-  RIGID STEEL CONDUIT PUSHED
-  ALUMINUM CONDUIT IN TRENCH
-  ALUMINUM CONDUIT PUSHED
-  RIGID STEEL CONDUIT IN MEDIAN
-  3" SIZE OF CONDUIT
-  3-2C #12 NUMBER & SIZE OF CABLE
-  7 SIGNAL FACE NUMBER
-  7 POST NUMBER
-  7 DETECTOR NUMBER
-  7 PULL BOX NUMBER
-  R RED LENS (CIRCULAR)
-  Y YELLOW LENS (CIRCULAR)
-  ✕ YELLOW LEFT ARROW LENS
-  ✕ YELLOW RIGHT ARROW LENS
-  G GREEN LENS (CIRCULAR)
-  S GREEN STRAIGHT ARROW LENS
-  L GREEN LEFT ARROW LENS
-  Rt GREEN RIGHT ARROW LENS
-  DL DOWN LIGHT
-  R 12 INCH LENS
-  G TUNNEL VISOR
-  EYE TUNNEL VISOR WITH EXTERNAL LOUVER
-  W WALK INDICATION

DW DON'T WALK INDICATION
FDW FLASHING DON'T WALK INDICATION

COMMISSION FURNISHED SIGNS

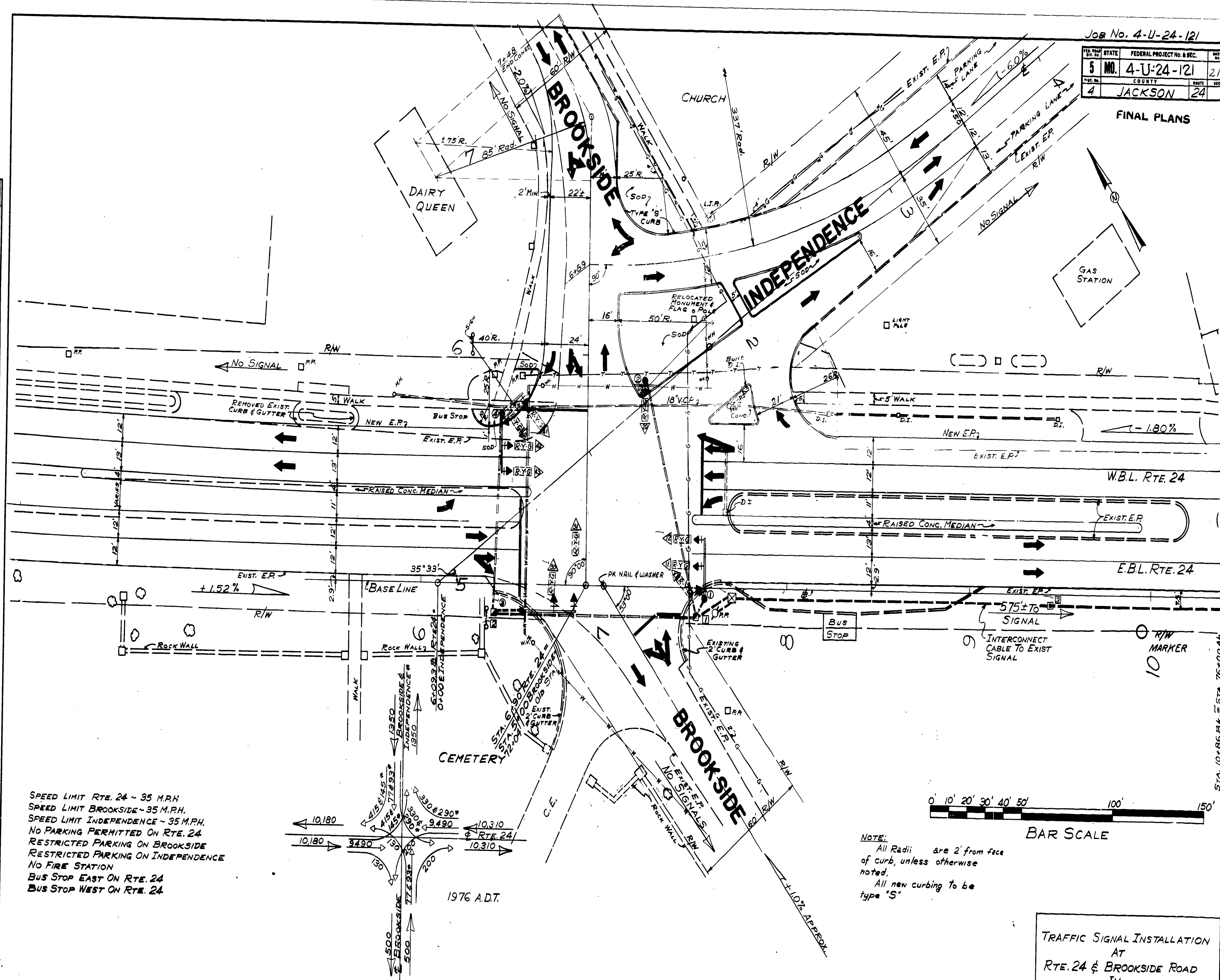
- | SIGN NUMBER | |
|-------------|--|
| 1 | R10-10L - LEFT TURN SIGNAL |
| 2 | R10-10R - RIGHT TURN SIGNAL |
| 3 | R3-5La - LEFT ARROW (SYMBOL)-ONLY |
| 4 | R3-5Ra - RIGHT ARROW (SYMBOL)-ONLY |
| 5 | R10-11 - LEFT TURN YIELD |
| 6 | R10-12 - LEFT TURN YIELD ON GREEN |
| 7 | R10-4 - PUSH BUTTON FOR WALK SIGNAL |
| 8 | R10-3a - ARROW (SYMBOL)(ABOVE PUSHBUTTON) |
| 9 | R3-7L - LEFT LANE MUST TURN LEFT |
| 10 | R3-7R - RIGHT LANE MUST TURN RIGHT |
| 11 | R3-5Sa - STRAIGHT ARROW (SYMBOL)-ONLY |
| 12 | R3-6La - LEFT ARROW-STRAIGHT ARROW (SYMBOL) |
| 13 | R3-6Ra - RIGHT ARROW-STRAIGHT ARROW (SYMBOL) |
| 14 | R3-2 - NO LEFT TURN (SYMBOL) |
| 15 | R3-2x - NO LEFT TURN (PLAQUE) |
| 16 | R3-1 - NO RIGHT TURN (SYMBOL) |
| 17 | R3-1x - NO RIGHT TURN (PLAQUE) |
| 18 | R3-3a - NO TURNS |
| 19 | R9-9 - FIRE STATION SIGNAL |
| 20 | R9-9a - FIRE STATION SIGNAL |
| 21 | R9-9b - FIRE STATION SIGNAL |
| 22 | R1-2a - YIELD (BY OTHERS) |

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JOB No. 4-U-24-121

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	4-U-24-121	21
POST. No.	COUNTY	ROUTE	SEC.
4	JACKSON	24	

FINAL PLANS



SPEED LIMIT RTE. 24 ~ 35 M.P.H.
SPEED LIMIT BROOKSIDE ~ 35 M.P.H.
SPEED LIMIT INDEPENDENCE ~ 35 M.P.H.
NO PARKING PERMITTED ON RTE. 24
RESTRICTED PARKING ON BROOKSIDE
RESTRICTED PARKING ON INDEPENDENCE
NO FIRE STATION
BUS STOP EAST ON RTE. 24
BUS STOP WEST ON RTE. 24

NOTE:
All Radii are 2' from face
of curb, unless otherwise
noted.
All new curbing to be
type "S"

TRAFFIC SIGNAL INSTALLATION
AT
RTE. 24 & BROOKSIDE ROAD
IN
INDEPENDENCE

TRAFFIC SIGNALS

FINAL PLANS

CONTROLLER AND AUXILIARY EQUIPMENT

*ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

POWER SUPPLY

POWER SUPPLY									
LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING		SERVICE POLE		
APPROACH	STATION	OFFSET	DRAWING	DRAWING	CONTROLLER	SERVICE POLE	CONTRACT	FURNISH	UTILITY COMPANY
Rte. 24	7+61	10R1	902.10		DOWN LIGHT	CONT & SIGNAL LAMPS	BOTH BREAKERS		
					20 Amps	40 Amps	40 Amps	CL	11.30

[illegible]

SP-38A

FINAL PLANS

[illegible]

- ▶-ACTUATED VEHICULAR MOVEMENT
- ▶-PARTIALLY ACTUATED VEHICULAR MOVEMENT
- ▶-PARTIALLY RESTRICTED VEHICULAR MOVEMENT
- ▶-ACTUATED PEDESTRIAN MOVEMENT
- ▶-NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊗-DETECTOR DISCONNECTED
- ①-DETECTOR SWITCHED (FUNCTION NO 1)

R/W- RIGHT OF WAY INTERVAL

- ⊗-TRAFFIC PHASE
- R- CIRCULAR RED
- Y- CIRCULAR YELLOW
- G- CIRCULAR GREEN
- S- GREEN STRAIGHT AHEAD ARROW
- ←Y- YELLOW LEFT ARROW
- L- GREEN LEFT ARROW
- Y- YELLOW RIGHT ARROW
- RT- GREEN RIGHT ARROW
- W- WALK
- DW- DON'T WALK
- FDW- FLASHING DON'T WALK

[illegible]

Hand-drawn wiring diagram for a radio receiver. The diagram shows a power supply section with a transformer (labeled "7C. SUMMER") and a rectifier (labeled "7C. SUMMER"). The power is then distributed to various components: a 1-7C. 1 1/4' COND. capacitor, a 2-7C. 2' COND. capacitor, a 3-7C. 3' COND. capacitor, a 3-1/2' 1 1/4' COND. capacitor, a 1-7C. 1 1/4' COND. capacitor, and a 1-7C. 2' COND. capacitor. The diagram also includes a 6-7C. 3' COND. capacitor and a 3-1/2' 1 1/4' COND. capacitor. The diagram is labeled "ALL WIRE #12 AWG EXCEPT WHERE SHOWN".

[illegible]

FLOW DIAGRAM

```
graph LR; R(( )) --> Sum1((+)); Sum1 --> A[φA] --> Sum2((-)); Sum2 --> B[φB] --> Sum3((-)); Sum3 --> C[φC] --> Sum4((-)); Sum4 --> Out(( )); Out --> Sum1; Out --> Sum5(( )); Sum5 --> Bk1[ ] --> Sum6(( )); Sum6 --> Bk2[ ] --> Sum7(( )); Sum7 --> Bk3[ ] --> Sum8(( )); Sum8 --> Bk4[ ] --> Sum9(( )); Sum9 --> Bk5[ ] --> Sum2;
```

Route 24	FY
All Others	FR
	F

RTE. 24
INTERSECTION OF
BROOKSIDE ROAD
WITH

SP-37

FINAL PLANS

SP-2
MAY 1976

MISSOURI STATE HIGHWAY COMMISSION STANDARD PLANS

FED. ROAD DIVISION	PROJECT	SHEET NO.
5	MO. 4-11-24-121	43
DIST. NO.	COUNTY	ROUTE
4	JACKSON	24

✓ NO.	DESCRIPTION
✓ 203.00D	EXCAVATION & EMBANKMENT
203.02B	UNDERGRADING
203.10	TABULATED EARTHWORK & SECTION DATA
203.20	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
203.21	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
203.30	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
203.32C	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
203.36	MAILBOX TURNOUTS
203.40D	TYPICAL DETAILS RAMPS FOR INTERCHANGES (NO SAFETY ZONE)
203.41D	TYPICAL DETAILS RAMPS FOR INTERCHANGES (SAFETY ZONE)
203.50G	TYPICAL CROSOVERS (DIVIDED HIGHWAYS)
204.00A	EMBANKMENT CONTROL MEASURING DEVICES
502.00E	CONCRETE PAVEMENT APPURTENANCES
502.10B	DOWEL SUPPORTING UNITS
502.20	CONCRETE APPROACH SLABS TO RAILROAD CROSSINGS
503.00D	CONCRETE APPROACH SLABS TO BRIDGES
602.00A	RIGHT-OF-WAY & DRAIN MARKERS
604.05	PIPE CULVERT HEADWALLS - TYPE S
604.10A	HEADWALL WITH ENERGY DISSIPATOR - 18"
604.11A	HEADWALL WITH ENERGY DISSIPATOR - 24"
604.12A	HEADWALL WITH ENERGY DISSIPATOR - 30"
604.13A	HEADWALL WITH ENERGY DISSIPATOR - 36"
604.14A	HEADWALL WITH ENERGY DISSIPATOR - 42"
604.15A	HEADWALL WITH ENERGY DISSIPATOR - 48"
604.20A	DROP INLET TYPE B
604.21	DROP INLET TYPE C
604.22	DROP INLET TYPE D
604.23	DROP INLET TYPE E
604.24	DROP INLET TYPE EE
✓ 604.25	DROP INLET TYPE F
604.26A	DROP INLET TYPE G
604.27	DROP INLET TYPE S (3 SHEETS)
604.28B	DROP INLET TYPE T (ALSO INCLUDE 614.30)
604.29A	DROP INLET TYPE X
604.30A	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
✓ 601.40C	PIPE COLLARS
905.10A	CLASS A UNDERDRAINS
✓ 806.00H	GUARD RAIL (2 SHEETS)
806.20C	BRIDGE ANCHOR SECTION (BRUSH CURB) (ALSO INCLUDE 806.00)
✓ 806.21B	BRIDGE ANCHOR SECTION - CURB TYPE (ALSO INCLUDE 806.00)
806.22A	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB) (INCLUDE 806.00)
✓ 806.30B	TERMINAL SECTION (ALSO INCLUDE 806.00)
806.40A	GUARD CABLE
806.50	GUARD FENCE
807.10L	CHAIN LINK FENCE
807.11A	CHAIN LINK FENCE FOR RETAINING WALLS
807.20C	WOVEN WIRE FENCE (ALSO INCLUDE 807.10)

✓ NO.	DESCRIPTION
608.00A	PAVED APPROACHES
✓ 608.10C	CONCRETE SIDEWALK
608.20	CONCRETE STEPS
✓ 609.00F	CONCRETE CURB - CURB & GUTTER - GUTTER
✓ 609.15	PAVED DITCHES
609.40D	DRAIN BASIN, SHLDR. PAVING & FILL SLOPE AT BR. ENDS
609.60	DITCH LINER
609.70A	ROCK LINING FOR CULVERT OUTLETS
610.20A	BRICK MANHOLES (ALSO INCLUDE 614.30)
611.60B	CONCRETE SLOPE PROTECTION
✓ 612.10E	BARRICADES AND FLASHER SIGNS
✓ 612.20L	STANDARD CONSTRUCTION SIGNS (5 SHEETS) (ALSO INCLUDE 903.00)
✓ 614.10F	CURB INLETS, GRATES & BEARING PLATES
✓ 614.30A	MANHOLE FRAMES & COVERS
615.00	OFFICE FOR ENGINEER
617.00K	CONCRETE MEDIAN BARRIER - TYPE A (3 SHEETS)
702.01B	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
702.02	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
703.18B	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS)
703.15	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS) (FLARED WINGS)
703.20B	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)
703.21	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS) (FLARED WINGS)
703.24A	CONCRETE BOX CULVERTS, SKEW DATA (703.15, 703.20, 703.30)
703.25	CONCRETE BOX CULVERTS, SKEW DATA (703.15 & 703.21) (FLARED WINGS)
703.30A	CONCRETE BOX CULVERTS, 4' SPANS & LESS - ALL LOADING
703.35A	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS)
703.36	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS)
703.50C	CONCRETE DOUBLE BOX STRUCTURE - SQUARE
703.51B	CONCRETE DOUBLE BOX STRUCTURE - SKEWED
703.52A	CONCRETE DOUBLE BOX STRUCTURE - CUT SECTIONS
703.53A	DOUBLE BOX STRUCTURE TOP SLAB REINF. H15 LOADING (5 SHEETS)
703.54A	DOUBLE BOX STRUCTURE TOP SLAB REINF. H20 OR H20 LOADING (5 SHEETS)
703.60A	CONCRETE BOX STRUCTURE - PIPE INLET
706.30B	REINFORCING BAR SUPPORTS
706.35A	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
712.40	STEEL DAMS FOR BRIDGES (8" CHANNEL)
712.41	STEEL DAMS FOR BRIDGES (4" CHANNEL)
712.42	FILLET WELDED TEE JOINT TEST
717.11A	TIMBER BRIDGES - 11' ROADWAY
717.15A	TIMBER BRIDGES - 15' ROADWAY
717.19A	TIMBER BRIDGES - 19' ROADWAY
725.31	METAL CURTAIN WALL AND METAL INLETS
✓ 726.30A	CULVERT INSTALLATION METHODS
731.00H	PRECAST MANHOLES (ALSO INCLUDE 614.30)
732.00D	FLARED END SECTION (2 SHEETS)
✓ 733.00J	PRECAST DROP INLETS (4 SHEETS) (ALSO INCLUDE 614.30 & 614.10)
806.00A	EROSION CONTROL NETTING (INSTALLATION) TYPE I & TYPE II
806.02	STAPLE PLACEMENT FOR TYPE III NETTING
807.00	GLASS FIBER MAT (INSTALLATION)

✓ NO.	DESCRIPTION
HIGHWAY LIGHTING	
901.00D	POLES & APPURTENANCES - 30' (2 SHEETS)
901.01J	POLES & APPURTENANCES - 45' (2 SHEETS)
901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (NOTE BELOW)
901.12A	POLE MOUNT. CONT. STA. SECONDARY SERV. 400 V MULTI. CIR. (NOT METERED)
901.15A	POLE MOUNT. CONT. STA. SEC. SERV. 120, 240, & 480 V MULTI. CIR.
901.16A	POLE MOUNT. CONT. STA. SEC. SERV. 480 V MULTI. CIR. (METERED)
901.18B	POLE MOUNT. CONT. STA. SEC. SERV. 120/240 V MULTI. CIR.
901.19A	POLE MOUNT. CONT. STA. SEC. SERV. 240 V MULTI. CIR. (NOT METERED)
901.20A	POLE MOUNT. CONT. STA. SEC. SERV. 120/240 V MULTI. CIR. (SIG. METERED)
901.22A	POLE MOUNT. CONT. STA. SEC. SERV. 120/240 V MULTI. CIR. (SIG. METERED)
901.23J	POLE MOUNT. CONT. STA. SEC. SERV. 240 V MULTI. CIR. (METERED)
901.24A	POLE MOUNT. CONT. STA. SEC. SERV. 240 V MULTI. CIR. (L.T.S. & SIGS. BOTH METERED)
901.25	BASE MOUNT. CONT. STA. SEC. SERV. 120/240 V MULTI. CIR.
NOTE:	DRAWING 901.05 INCLUDED WITH DRAWINGS 901.12 THROUGH 901.25 EXCEPT 901.18
TRAFFIC SIGNALS	
✓ 902.00A	SIGNAL HEADS, LENSES AND MOUNTING
✓ 902.10A	PULL BOXES, CONTROLLERS, COND. INSTAL., POWER SUPPLY
✓ 902.30A	CONCRETE BASES
✓ 902.40A	TUBULAR STEEL POSTS
902.50A	DETECTORS
902.60A	SPAN WIRE DETAILS
HIGHWAY SIGNING	
✓ 903.00A	STANDARD ALPHABETS (SILK SCREEN - 5 SHEETS)
903.01	ALPHABETS (CUT OUT - 5 SHEETS)
903.02J	HIGHWAY SIGNING (7 SHEETS)
903.03C	SIGN MOUNTING DETAILS (7 SHEETS)
903.04	WEIGH STATION SIGNING
903.05A	TUBULAR SPAN SUPPORT - ONE TUBE, TYPE S
903.06A	TUBULAR SPAN SUPPORT - TWO TUBE, TYPE S
903.07A	TUBULAR CANTILEVER SUPPORTS, TYPE C
903.08B	TUBULAR BUTTERFLY SUPPORTS, TYPE B
903.09C	LIGHTING SUPPORT BRACKET
903.10H	SIGN TRUSSES - OVERHEAD ALUMINUM (8 SHEETS)
903.12E	SIGN TRUSSES - BUTTERFLY & CANTILEVER - STEEL (7 SHEETS)
903.00G	SIGN TRUSSES - OVERHEAD STEEL (7 SHEETS)

NOTES: Plans for this project were developed using Drawings from this index. Plans issued for this project contain the Drawings checked. If any Drawing is missing, it will be furnished upon notification and its omission will not be cause for claim on this project.

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