



SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS
3-4	SUMMARY OF QUANTITIES
5-6	TYPICAL SECTIONS
7	STAGING TYPICAL SECTIONS
8	SCHEDULE OF QUANTITIES
9	ALIGNMENT, TIES, AND BENCHMARKS
10-24	ROADWAY AND PAVEMENT MARKING PLANS
25-27	SUGGESTED STAGES OF CONSTRUCTION
28	NOT USED
29	SUGGESTED MAINTENANCE OF TRAFFIC
30	NOT USED
31	MAINTENANCE OF TRAFFIC - STAGE 1 - RAMP B
32 -32A	MAINTENANCE OF TRAFFIC - STAGE 2 - RAMP B
33 -33A	MAINTENANCE OF TRAFFIC - STAGE 3 - RAMP B
33B	DETOUR PLAN
34	PROPOSED PLAN AND PROFILE
35-38B	LIGHTING DETAILS
39-46	STRUCTURAL PLANS
47	RESURFACING DETAILS AT PCC APPROACH SLABS
48	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
49	BUTT JOINT AND HMA TAPER DETAILS
50	BENCHING CONSTRUCTION DETAILS
51	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
52	FREEWAY SINGLE AND MULTI LANE WEAVE
53	NOT USED
54-55	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
56	NOT USED
57	NOT USED
58	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
59	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
60	NOT USED
61	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
62	EXISTING ROUND LOOP INSTALLATION
63	EXISTING ROUND INDUCTION LOOP TYPICALS
64	RECTANGULAR INDUCTION LOOP TYPICAL
65	LOOP, CONDUIT & DUCT INSTALLATION DETAILS
66	TYPICAL INDUCTION LOOP LEAD-IN TRANSITION DIAGRAM
67	NEW CONSTRUCTION ROUND INDUCTION LOOP TYPICAL INSTALLATION
68	LOOP STATUS REPORT
69	DIVE HOLE DUCT SYSTEM (#B)
70	DIVE HOLE DUCT SYSTEM (#BA)
71-80	CROSS SECTIONS
	HIGHWAY STANDARDS

STATE STANDARDS

SHEET NO.	TITLE
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT REBARS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND CLASS D PATCHES
515001-03	NAME PLATE FOR BRIDGE
601001-03	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701400-03	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-05	LANE CLOSURE FREEWAY/EXPRESSWAY
701406-05	LANE CLOSURE FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY
701411-05	LANE CLOSURE, MULTILANE ENTRANCE AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701446-01	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POST FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATION OF TYPES A & B METAL POST (FOR SIGN & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.

DIMENSIONS ARE IN ENGLISH UNITS UNLESS OTHERWISE NOTED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT LISTED IN THE PLANS WITH THE LATEST NUMBERS.

DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL DEPOSITS THAT OBSTRUCT THE FLOW OF WATER IN DRAINING THE AREA SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING PROPERTIES.

THE CONTRACTOR SHALL NOTIFY THE EXPRESSWAY TRAFFIC FIELD ENGINEER AT (847) 705-4151 AT LEAST 72 HOURS PRIOR TO FINAL PAVEMENT MARKING INSTALLATION.

THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAIL" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKING SHALL BE REDIRECTED BY THE ENGINEER.

SUMMARY OF QUANTITIES			URBAN FED. TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT		I000	X220-2A
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23	
20200100	EARTH EXCAVATION	CU YD	460	460	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	202	202	
20201550	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	428	428	
20400800	FURNISHED EXCAVATION	CU YD	30	30	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1232	1232	
25000210	SEEDING, CLASS 2A	ACRE	0.3	0.3	
25100630	EROSION CONTROL BLANKET	SQ YD	1232	1232	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
28000300	TEMPORARY DITCH CHECKS	EACH	4	4	
28000400	PERIMETER EROSION BARRIER	FOOT	510	510	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	152	152	
40600300	AGGREGATE (PRIME COAT)	TON	682	682	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	103	103	
40600895	CONSTRUCTING TEST STRIP	EACH	4	4	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	391	391	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	613	613	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	29,568	29,568	
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	270	270	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	19,146	19,146	
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	4,428	4,428	
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	207,366	207,366	
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	289,564	289,564	
44000920	BITUMINOUS CONCRETE SHOULDER REMOVAL	SQ YD	419	419	
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	2,736	2,736	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	1631	1631	

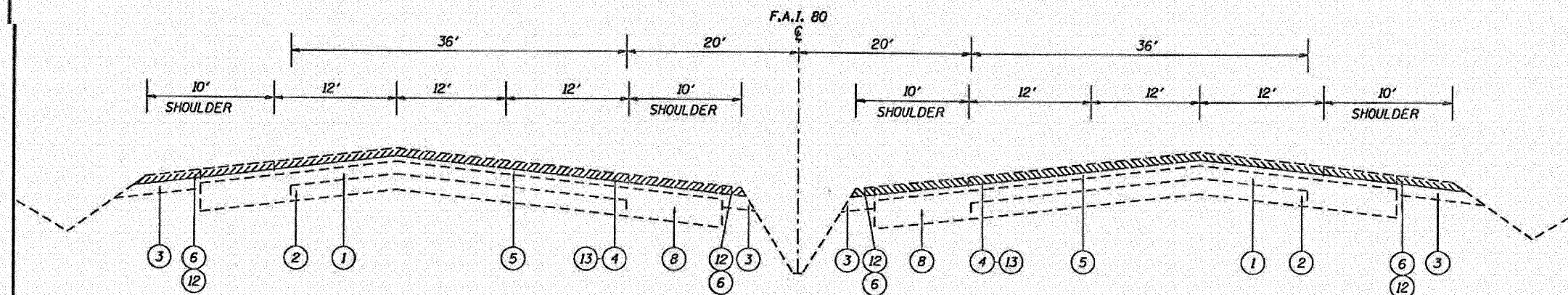
* SPECIALTY ITEM

SUMMARY OF QUANTITIES			URBAN FED. TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT		I000	X220-2A
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	360	360	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	268	268	
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	33,607	33,607	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	302,786	302,786	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1151	1151	
50157301	PROTECTIVE SHIELD (PERMANENT)	SQ YD	711		711
52000340	NEOPRENE EXPANSION JOINT 4"	FOOT	234		234
58700300	CONCRETE SEALER	SQ FT	93832		93832
63500105	DELINEATORS	EACH	1	1	
64200105	SHOULDER RUMBLE STRIP	FOOT	141,544	141,544	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1	
70103817	TRAFFIC CONTROL SURVEILLANCE (SPECIAL)	CAL DA	24	24	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	64576	64576	
70300200	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	126600	126600	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	35770	35770	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	17954	17954	
70300280	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	6068	6068	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	11669	11669	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1692	1692	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1692	1692	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	116,266	116,266	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	52,223	52,223	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	6068	6068	
* 78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	35770	35770	
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	33,304	33,304	
* 78005120	EPOXY PAVEMENT MARKING - LINE 5"	FOOT	35,600	35,600	

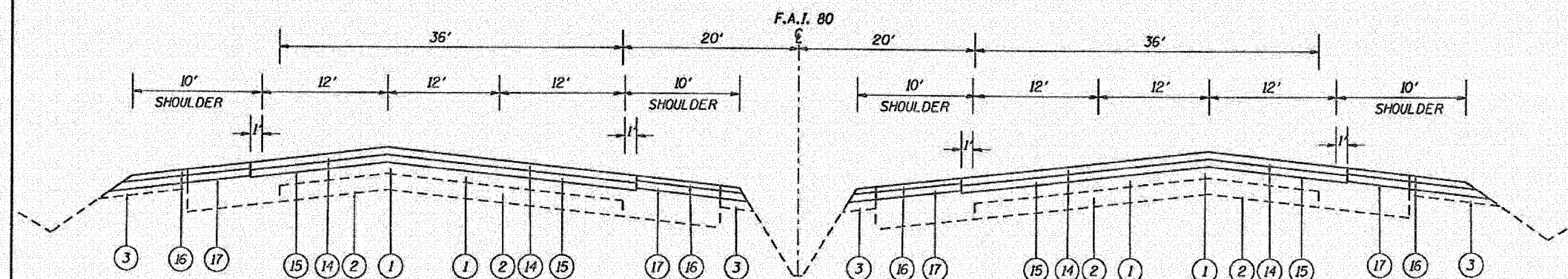
SUMMARY OF QUANTITIES			URBAN 100% FED. TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT		1000	X220-2A
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3096	3096	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	112	112	
* 78200500	BARRIER WALL MARKERS	EACH	200	200	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	623	623	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3208	3096	112
61603685	UNIT DUCT, 600V, 3-1/C NO. 1, 1/2" NO. 4 GROUND, (EPR-TYPE USE), 1/4" DIA., POLYETHYLENE	FOOT	750	750	
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	718	718	
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	6	6	
* 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	3	3	
* 84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	1	1	
87800160	CONCRETE FOUNDATION, TYPE E 30 INCH DIAMETER	FOOT	30	30	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2	
X0320887	POLYMER CONCRETE	CU FT	41		41
X0321744	SILICONE JOINT SEALER, 2"	FOOT	519		519
X0322247	MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE	L SUM	1	1	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	1236	1236	
X0322729	MATERIAL TRANSFER DEVICE	TON	65,532	65,532	
X0324494	TEMPORARY EPOXY PAVEMENT MARKING 4"	FOOT	40772	40772	
X0324495	TEMPORARY EPOXY PAVEMENT MARKING 5"	FOOT	17885	17885	
78005140	EPOXY PAVEMENT MARKING- LINE 8"	FOOT	52,223	52,223	
X0324497	TEMPORARY EPOXY PAVEMENT MARKING 12"	FOOT	2347	2347	
X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1	
X0324685	TEST STRIP (STONE MATRIX ASPHALT)	EACH	2	2	
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	362,135	362,135	
X0325840	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 12 INCH	FOOT	15,019	15,019	
X0325876	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 8 INCH	FOOT	87,103	87,103	
X0326107	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5 INCH	FOOT	177,310	177,310	

* SPECIALTY ITEM

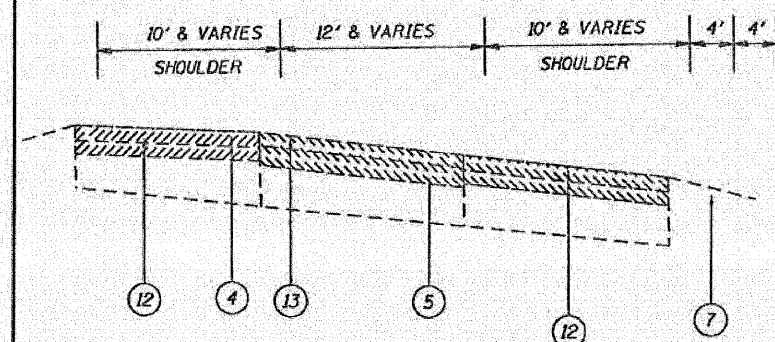
SUMMARY OF QUANTITIES			URBAN 100% FED. TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT		1000	X220-2A
X4066580	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	35,817	35,817	
X4066685	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	TON	29,715	29,715	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	24	24	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	24	24	
* X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	6743	6743	
* X8850102	INDUCTION LOOP	FOOT	1635	1635	
XX004814	SILICONE JOINT SEALER, 3"	FOOT	244		244
* XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	6	6	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	5		5
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	4		4
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3	3	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
⊙ Z0076600	TRAINEES	HOURL	2000	2000	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146	146	
X0325842	WET REFLECTIVE TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS	SQ FT	10,798	10,798	
* X8160395	UNIT DUCT, WITH 3-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW), 1 1/2" DIA., POLYETHYLENE	FOOT	1,028	1,028	
* 84200700	LIGHTING FOUNDATION REMOVAL	EACH	3	3	
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	5	5	
* X0324387	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	6	6	
* X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3	3	
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	50	50	
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	6,550	6,550	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1,032	1,032	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3,908	3,908	
* 78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	1,020	1,020	
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	1,000	1,000	
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	6	6	
* X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	6	6	



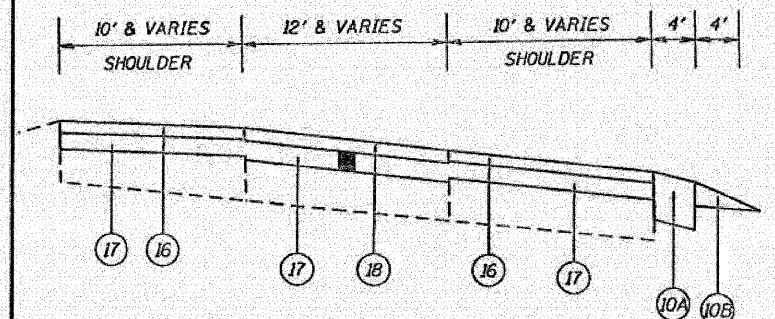
EXISTING ROADWAY SECTION ROUTE I-80
STA. 81+61 TO STA. 405+00



PROPOSED ROADWAY SECTION ROUTE I-80
STA. 81+61 TO STA. 405+00



EXISTING TYPICAL SECTION FOR THE RAMPS



PROPOSED TYPICAL SECTION FOR THE RAMPS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE TYPE	THICKNESS	AC/PG	DESIGN AIR VOIDS
MAINLINE RESURFACING			
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80	2"	SBS/SBR PG 76-22	3.5% @ 80 GYR
POLYMERIZED HMA BINDER COURSE, STONE MATRIX ASPHALT, N80	2"	SBS/SBR PG 76-22	3.5% @ 80 GYR
MAINLINE SHOULDER RESURFACING			
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	1 1/2"	PG 64-22	4% @ 70 GYR
HMA BINDER COURSE, IL-19.0, N70	2 1/4"	PG 64-22*	4% @ 70 GYR
ALL OTHER RAMPS RESURFACING (EXCLUDING I-80 EB TO I-57 NB RAMP B)			
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL-9.5 mm) (MAINLINE)	1 3/4"	SBS/SBR PG 70-22	4% @ 90 GYR
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (SHOULDER)	1 1/2"	PG 64-22	4% @ 70 GYR
HMA BINDER COURSE, IL-19.0, N70	2 1/4"	PG 64-22*	4% @ 70 GYR
I-80 EB TO I-57 NB RAMP B RESURFACING			
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL-9.5 mm)	1 3/4"	SBS/SBR PG 70-22	4% @ 90 GYR
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90	2 1/4"	SBS/SBR PG 70-22	4% @ 90 GYR
I-80 EB TO I-57 NB RAMP B SHOULDER RESURFACING, 8" (EAST SIDE) (FULL DEPTH)			
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	2"	PG 64-22	4% @ 70 GYR
HMA BINDER COURSE (HMA BINDER IL-19mm)	6"	PG 64-22*	4% @ 70 GYR
I-80 EB TO I-57 EB TO I-57 NB RAMP B SHOULDER RESURFACING (WEST SIDE)			
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	1 1/2"	PG 64-22	4% @ 70 GYR
HMA BINDER COURSE, IL-19.0, N70	2 1/4"	PG 64-22*	4% @ 70 GYR
PATCHING			
CLASS D PATCHES (HMA BINDER IL-19 mm)	10"	PG 64-22*	4% @ 70 GYR
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	2 1/4"	PG 64-22*	4% @ 70 GYR

LEGEND

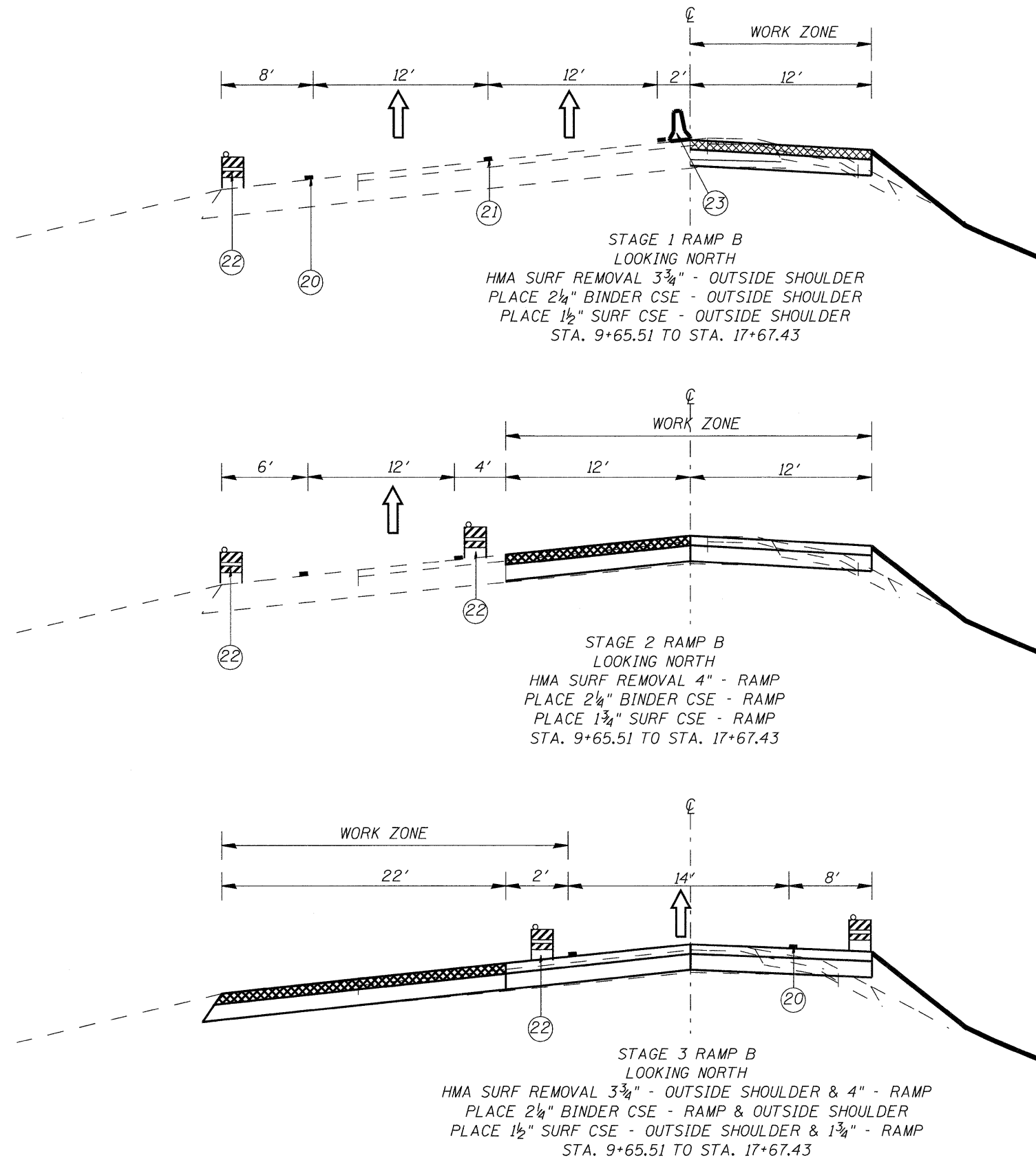
- 1 EXISTING C.R.C PAVEMENT, 10"
- 2 EXISTING SUB-BASE, 4"
- 3 EXISTING STAB. SHOULDER, 14"
- 4 EXISTING HMA SURF. CSE., 1 3/4"
- 5 EXISTING HMA BINDER CSE., 2 1/2"
- 6 EXISTING HMA SHOULDER TYPE A, 6"
- 7 EXISTING AGGREGATE SHOULDER
- 8 EXISTING LEVELING BINDER (MACHINE METHOD) MIX "C"
- 9 EARTH EXCAVATION
- 10 FURNISHED EXCAVATION
- 10A PROPOSED AGGREGATE SHOULDER, TYPE B 8"
- 10B PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B (6")
- 11 PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- 12 PROPOSED HMA SURF. CSE. REMOVAL, 3 3/4"
- 13 PROPOSED HMA SURF. CSE. REMOVAL, 4"
- 14 PROPOSED POLYMERIZED HMA SURF. CSE., SMA, N80 (2")
- 15 PROPOSED POLYMERIZED HMA BINDER CSE., SMA, N80 (2")
- 16 PROPOSED HMA SURF. CSE., MIX "D", N70 (1 1/2")
- 16A PROPOSED HMA SHOULDER, 8"
- 17 PROPOSED HMA BINDER COURSE, IL-19.0, N70 (2 1/4")
- 18 PROPOSED POLYMERIZED HMA SURF. CSE. MIX "F", N90 (1 3/4")
- 19 PROPOSED POLYMERIZED HMA BINDER CSE., IL-19.0, N90 (2 1/4")
- 19A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B (12")
- 20 PROPOSED WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4"
- 21 PROPOSED WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5"
- 22 PROPOSED TYPE II BARRICADE WITH FLASHING LIGHTS (AT 25' C-C)
- 23 TEMPORARY CONCRETE BARRIER

NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE AND BINDER COURSE MIXTURES IS 112 LBS/SOYD/IN AND SURFACE COURSE SMA IS 135 LBS/SOYD/IN AND BINDER COURSE SMA IS 112 LBS/SOYD/IN.

* - WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.



LEGEND

- ① EXISTING C.R.C PAVEMENT, 10"
- ② EXISTING SUB-BASE, 4"
- ③ EXISTING STAB. SHOULDER, 14"
- ④ EXISTING HMA SURF. CSE., 1 3/4"
- ⑤ EXISTING HMA BINDER CSE., 2 1/2"
- ⑥ EXISTING HMA SHOULDER TYPE A, 6"
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING LEVELING BINDER (MACHINE METHOD) MIX "C"
- ⑨ EARTH EXCAVATION
- ⑩ FURNISHED EXCAVATION
- ⑩A PROPOSED AGGREGATE SHOULDER, TYPE B 8"
- ⑩B PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B (6")
- ⑪ PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- ⑫ PROPOSED HMA SURF. CSE. REMOVAL, 3 3/4"
- ⑬ PROPOSED HMA SURF. CSE. REMOVAL, 4"
- ⑭ PROPOSED POLYMERIZED HMA SURF. CSE., SMA, N80 (2")
- ⑮ PROPOSED POLYMERIZED HMA BINDER CSE., SMA, N80 (2")
- ⑯ PROPOSED HMA SURF. CSE., MIX "D", N70 (1 1/2")
- ⑯A PROPOSED HMA SHOULDER, 8"
- ⑰ PROPOSED HMA BINDER COURSE, IL-19.0, N70 (2 1/4")
- ⑱ PROPOSED POLYMERIZED HMA SURF. CSE. MIX "F", N90 (1 3/4")
- ⑲ PROPOSED POLYMERIZED HMA BINDER CSE., IL-19.0, N90 (2 1/4")
- ⑲A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B (12")
- ⑳ PROPOSED WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4"
- ㉑ PROPOSED WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5"
- ㉒ PROPOSED TYPE II BARRICADE WITH FLASHING LIGHTS (AT 25' C-C)
- ㉓ TEMPORARY CONCRETE BARRIER

NOTE:

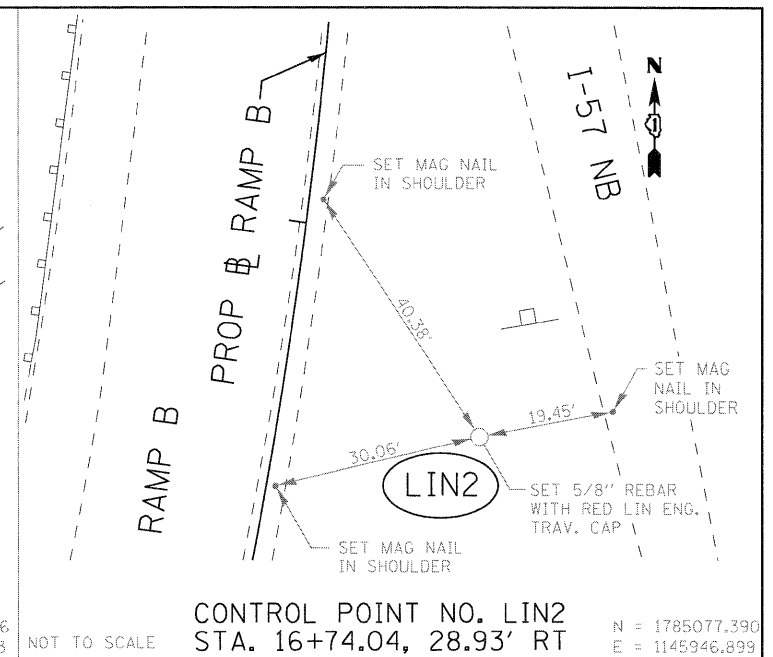
* - USE EPOXY PAVEMENT MARKING ON MILLED SURFACE.

I-80 WESTBOUND CROSS STREET		LANE NO.	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	AREA	I-80 WESTBOUND CROSS STREET		LANE NO.	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	AREA	I-80 WESTBOUND CROSS STREET		LANE NO.	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	AREA	I-80 WESTBOUND CROSS STREET		LANE NO.	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	AREA	I-80 WESTBOUND CROSS STREET		LANE NO.	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	AREA					
FROM	TO	1, 2, 3	FT	FT	SQ YD	FROM	TO	1, 2, 3	FT	FT	SQ YD	FROM	TO	1, 2, 3	FT	FT	SQ YD	FROM	TO	1, 2, 3	FT	FT	SQ YD	FROM	TO	1, 2, 3	FT	FT	SQ YD					
I-294	KEDZIE	1	12	7	9	PULASKI	I-57	1	12	14	19	I-57	HARLEM	2	12	7	9	HARLEM	I-57	2	12	7	9	HARLEM	I-57	3	12	12	16					
		1	12	7	9			2	12	7	9			2	12	7	9			2	12	7	9											
		1	12	7	9			2	12	7	9			2	12	12	16			2	12	7	9			3	12	24	32					
		1	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9			3	12	24	32					
		1	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9	I-57	PULASKI	1	12	7	9					
		2	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9			1	12	7	9					
		2	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9			1	12	7	9					
		2	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9			2	12	7	9					
		2	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9			2	12	7	9					
		2	12	10	13			2	12	7	9			3	12	7	9			2	12	7	9			2	12	7	9					
		3	12	7	9			2	12	7	9			3	12	7	9			2	12	7	9			2	12	7	9					
		3	12	7	9			2	12	10	13			3	12	7	9			2	12	7	9			2	12	7	9					
		3	12	7	9			2	12	10	13			3	12	7	9			2	12	7	9			2	12	7	9					
		3	12	7	9			2	12	14	19			3	12	7	9			2	12	7	9			2	12	7	9					
		3	12	7	9			3	12	7	9			3	12	7	9			2	12	7	9			2	12	7	9					
		3	12	7	9			3	12	7	9			3	12	7	9			2	12	14	19			2	12	10	13					
		3	12	10	13			3	12	7	9			3	12	7	9			2	12	24	32			2	12	10	13					
		3	12	10	13			3	12	7	9			3	12	7	9			3	12	7	9			2	12	12	16					
		3	12	14	19			3	12	7	9			3	12	10	13			3	12	7	9			2	12	12	16					
KEDZIE	PULASKI	1	12	7	9			3	12	7	9			3	12	12	16			3	12	7	9			2	12	12	16					
		1	12	7	9			3	12	7	9			3	12	24	32			3	12	7	9			3	12	7	9					
		1	12	7	9			3	12	7	9			I-80 EASTBOUND CROSS STREET				LANE NO.	PAVEMENT PATCH WIDTH	PAVEMENT PATCH LENGTH	AREA			3	12	7	9			3	12	7	9	
		2	12	7	9			3	12	7	9			FROM				TO	1, 2, 3	FT	FT	SQ YD			3	12	7	9			3	12	7	9
		2	12	7	9			3	12	7	9			HARLEM	I-57	1	12	7	9				3	12	7	9			3	12	12	16		
		2	12	10	13			3	12	7	9					1	12	7	9				3	12	7	9			3	12	19	25		
		3	12	7	9			3	12	7	9					1	12	7	9				3	12	7	9			3	12	19	25		
		3	12	7	9			3	12	7	9					1	12	7	9				3	12	7	9			3	12	19	25		
		3	12	7	9			3	12	7	9					1	12	10	13				3	12	7	9	PULASKI	KEDZIE	1	12	14	19		
		3	12	7	9			3	12	7	9					1	12	10	13				3	12	7	9			2	12	7	9		
		3	12	7	9			3	12	7	9					1	12	12	16				3	12	7	9			2	12	7	9		
		3	12	7	9			3	12	10	13					2	12	7	9				3	12	7	9			3	12	7	9		
		3	12	7	9			3	12	14	19					2	12	7	9				3	12	7	9	KEDZIE	I-294	1	12	7	9		
PULASKI	I-57	1	12	7	9			1	12	7	9					2	12	7	9				3	12	10	13			2	12	7	9		
		1	12	7	9			1	12	7	9					2	12	7	9				3	12	10	13			3	12	7	9		
		1	12	7	9			1	12	14	19					2	12	7	9				3	12	10	13								
		1	12	10	13			2	12	7	9					2	12	7	9				3	12	12	16								
		1	12	12	16			2	12	7	9					2	12	7	9				3	12	12	16								
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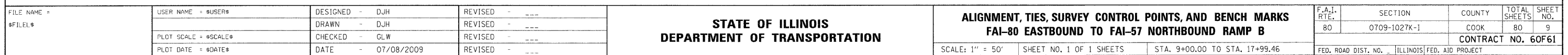
EARTHWORK					
LOCATION		EARTH EXCAVATION CU YD	EMBANKMENT CU YD	ADJ. EXCAVATION 15% CU YD	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
STATION	STATION				
9+50	17+99.46	460.0	187.0	389	202
					30

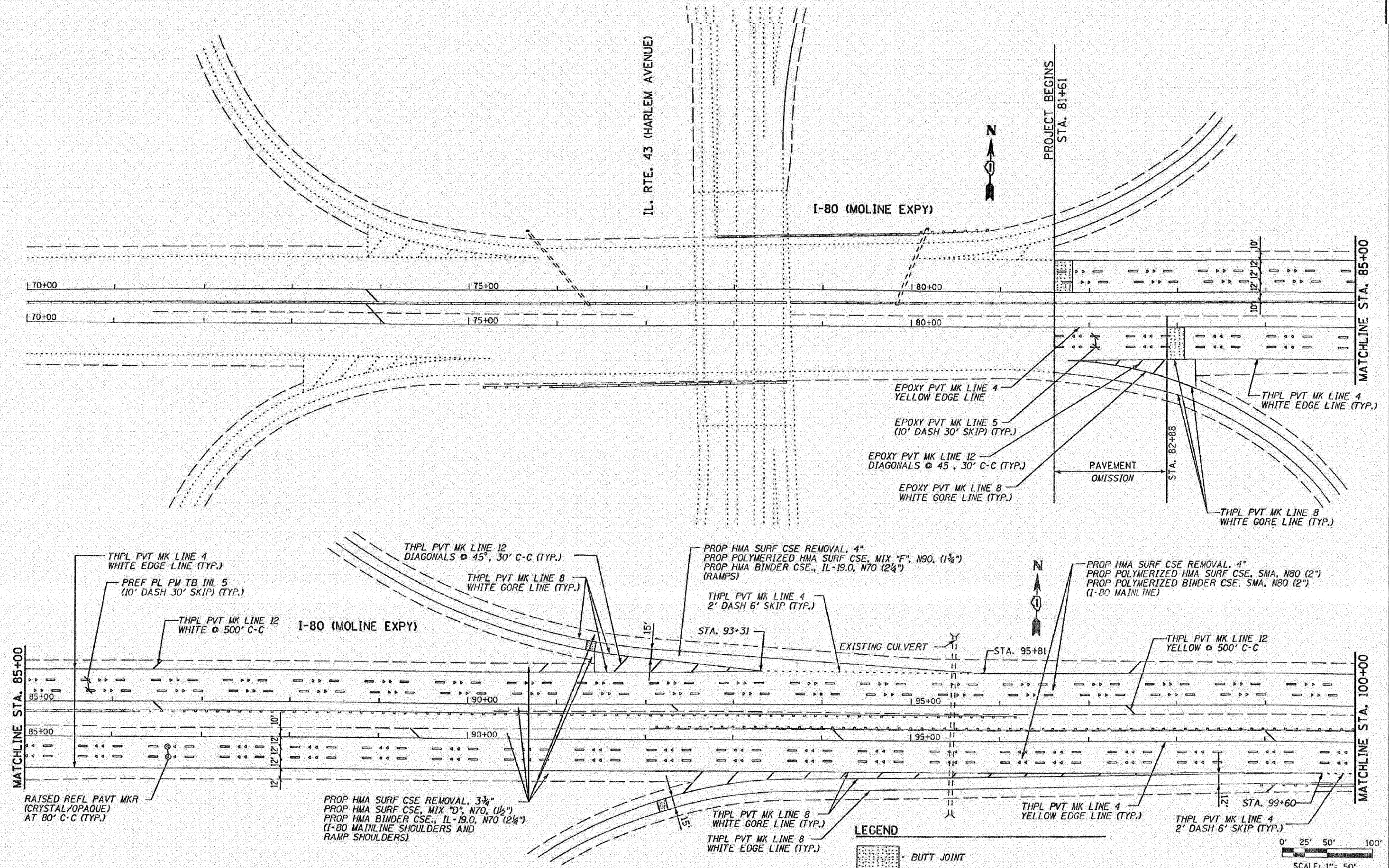
DELINEATORS		
LOCATION		QUANTITY
STATION	OFFSET	EACH
9+96	RT	1
	TOTAL	1

TEMPORARY DITCH CHECKS		
LOCATION		QUANTITY
STATION	OFFSET	EACH
10+30	RT	1
11+00	RT	1
11+60	RT	1
12+00	RT	1
	TOTAL	4



BENCHMARK NO. BM2
CHISELED "□" ON NORTH END OF WEST BRIDGE
PARAPET OF I-57 NORTH BOUND OVER I-80
EAST BOUND; ELEV. = 729.71
STA. 15+08, 136.5' RT





LOVCO, INC.
CONSULTING ENGINEERS
1640 HALL ST., SUITE 202
NAPERVILLE, ILLINOIS 60563 PH 630/571-9100

USER NAME = *USER*	DESIGNED - MJY & ST	REVISD -
PLOT SCALE = *SCALE*	DRAWN - ST	REVISD -
PLOT DATE = *DATE*	CHECKED - WHE	REVISD -
	DATE - 07/08/2009	REVISD -

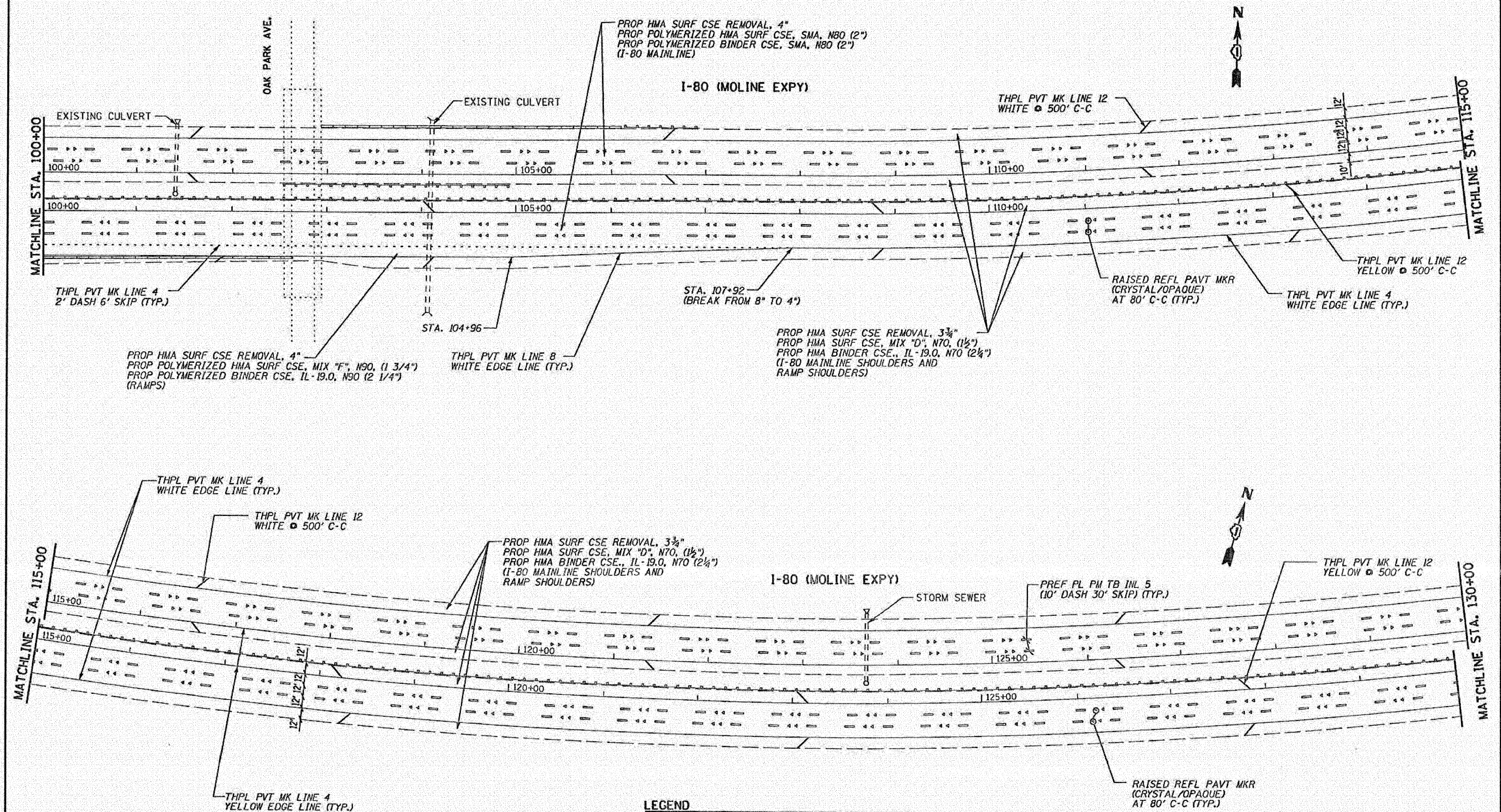
PROP HMA SURF CSE REMOVAL, 3 3/4"
PROP HMA SURF CSE, MIX "D", N70, (1 1/2")
PROP HMA BINDER CSE., IL-19.0, N70 (2 1/4")
(I-80 MAINLINE SHOULDERS AND RAMP SHOULDERS)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

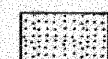
**EXISTING/PROPOSED PLAN STA. 81+61 TO 100+00
I-80 (EAST OF 80th AVE. TO I-294)**

SCALE: 1"=50' SHEET NO. 1 OF 15 SHEETS STA. 81+61 TO STA. 100+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC., 1819-024) RS-2	WILL & COOK	80	10
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

 BUTT JOINT

0' 25' 50' 100'
SCALE: 1"= 50'

LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 202
HAPERVILLE, ILLINOIS 60563 PH 630/571-5100

USER NAME = *USER*	DESIGNED - MJY & ST	REVISED -
PLOT SCALE = *SCALE*	DRAWN - ST	REVISED -
PLOT DATE = *DATE*	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

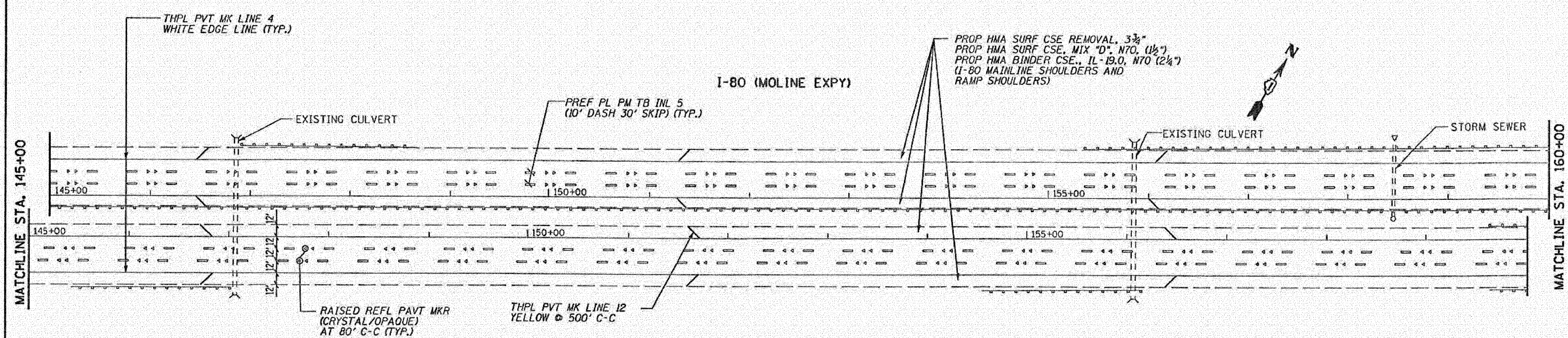
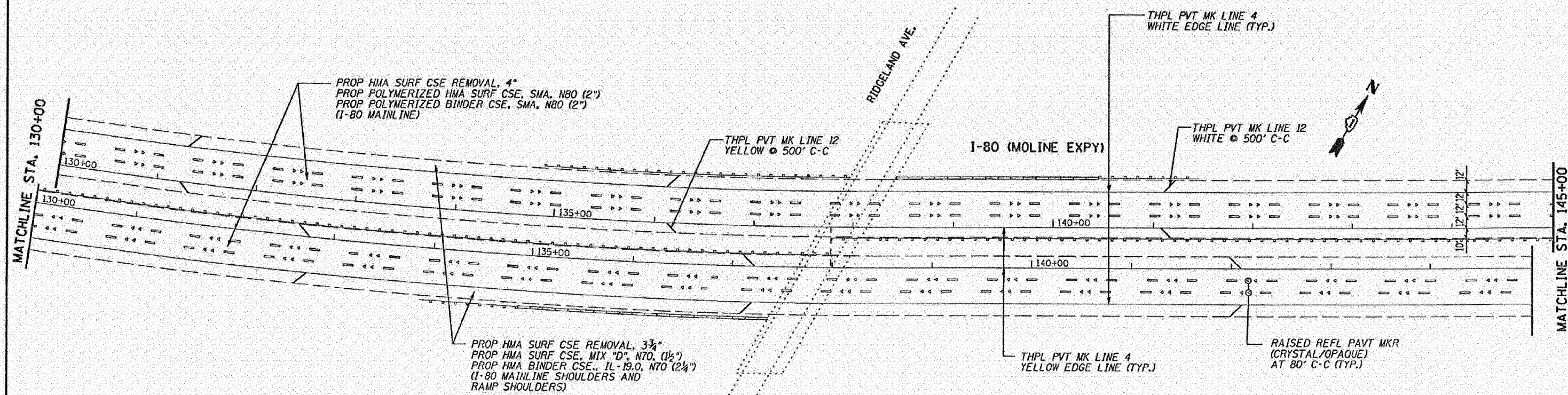
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED PLAN STA. 100+00 TO 130+00
I-80 (EAST OF 80th AVE TO I-294)

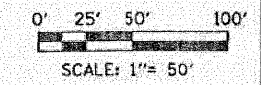
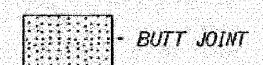
SCALE: 1"=50' SHEET NO. 2 OF 15 SHEETS STA. 100+00 TO STA. 130+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	11
	C-91-145-09			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

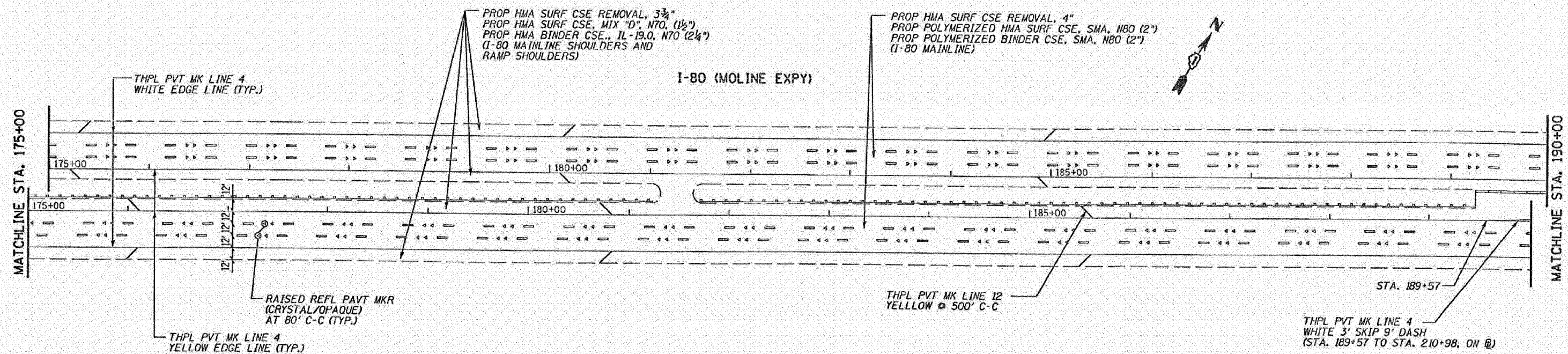
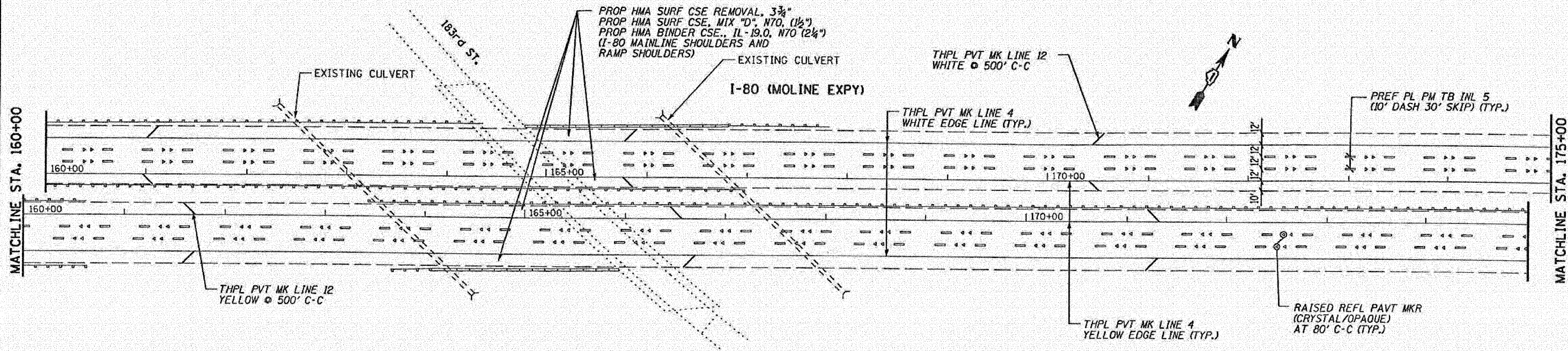
CONTRACT NO. 60F61



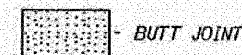
LEGEND



LONGO, INC. CONSULTING ENGINEERS 1560 WALL ST., SUITE 222 NAPERVILLE, ILLINOIS 60563 PH 630.517-9100	USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING/PROPOSED PLAN STA. 130+00 TO 160+00 I-80 (EAST OF 80th AVE. TO I-294)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	CHECKED - WHE	REVISED -					80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	12
	PLOT DATE = #DATE#	DATE - 07/08/2009	REVISED -		C-91-145-09			CONTRACT NO. 60F61				
					SCALE: 1"=50'	SHEET NO. 3 OF 15 SHEETS	STA. 130+00 TO STA. 160+00	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



LEGEND



0' 25' 50' 100'

SCALE: 1"= 50'

LOCO, INC.
CONSULTING ENGINEERS
1500 WALL ST., SUITE 202
NAPERVILLE, ILLINOIS 60563 PH: 630/517-9100

USER NAME: *USER*	DESIGNED: MJY & ST
PLOT SCALE: *SCALE*	DRAWN: ST
PLOT DATE: *DATE*	CHECKED: WHE
	DATE: 07/08/2009

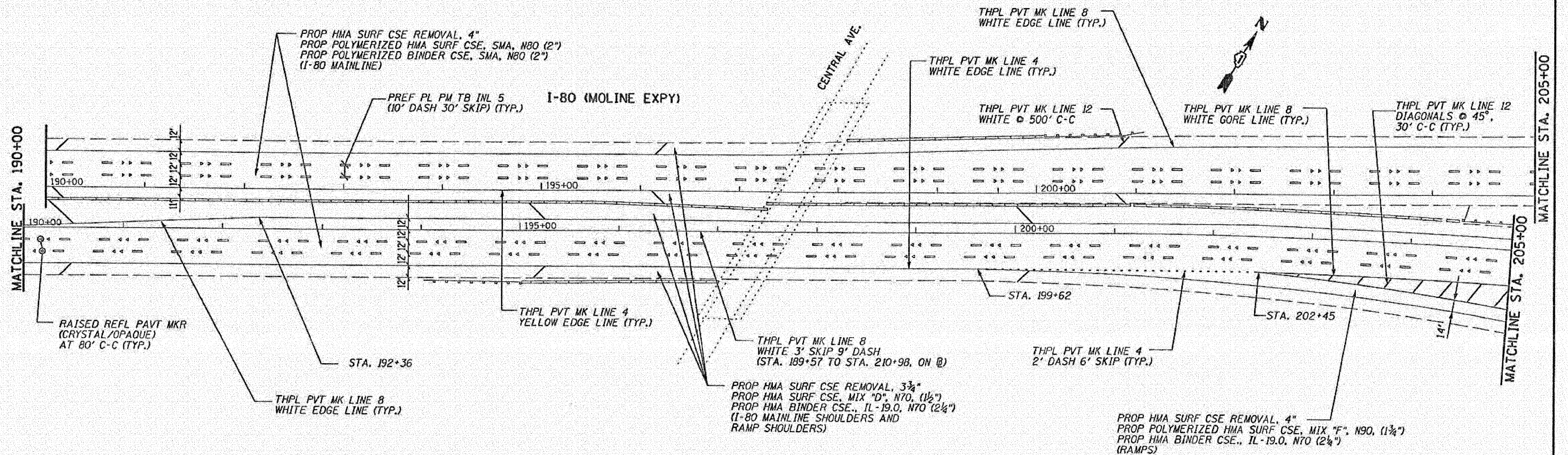
REVISED: -
REVISED: -
REVISED: -
REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED PLAN STA. 160+00 TO 190+00
I-80 (EAST OF 80th AVE. TO I-294)

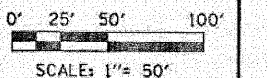
SCALE: 1"=50' SHEET NO. 4 OF 15 SHEETS STA. 160+00 TO STA. 190+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	13
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

 BUTT JOINT



LONGO, INC.
 CONSULTING ENGINEERS
 1550 WALL ST., SUITE 222
 NAPERVILLE, ILLINOIS 60563 P/N 18301 577-0100

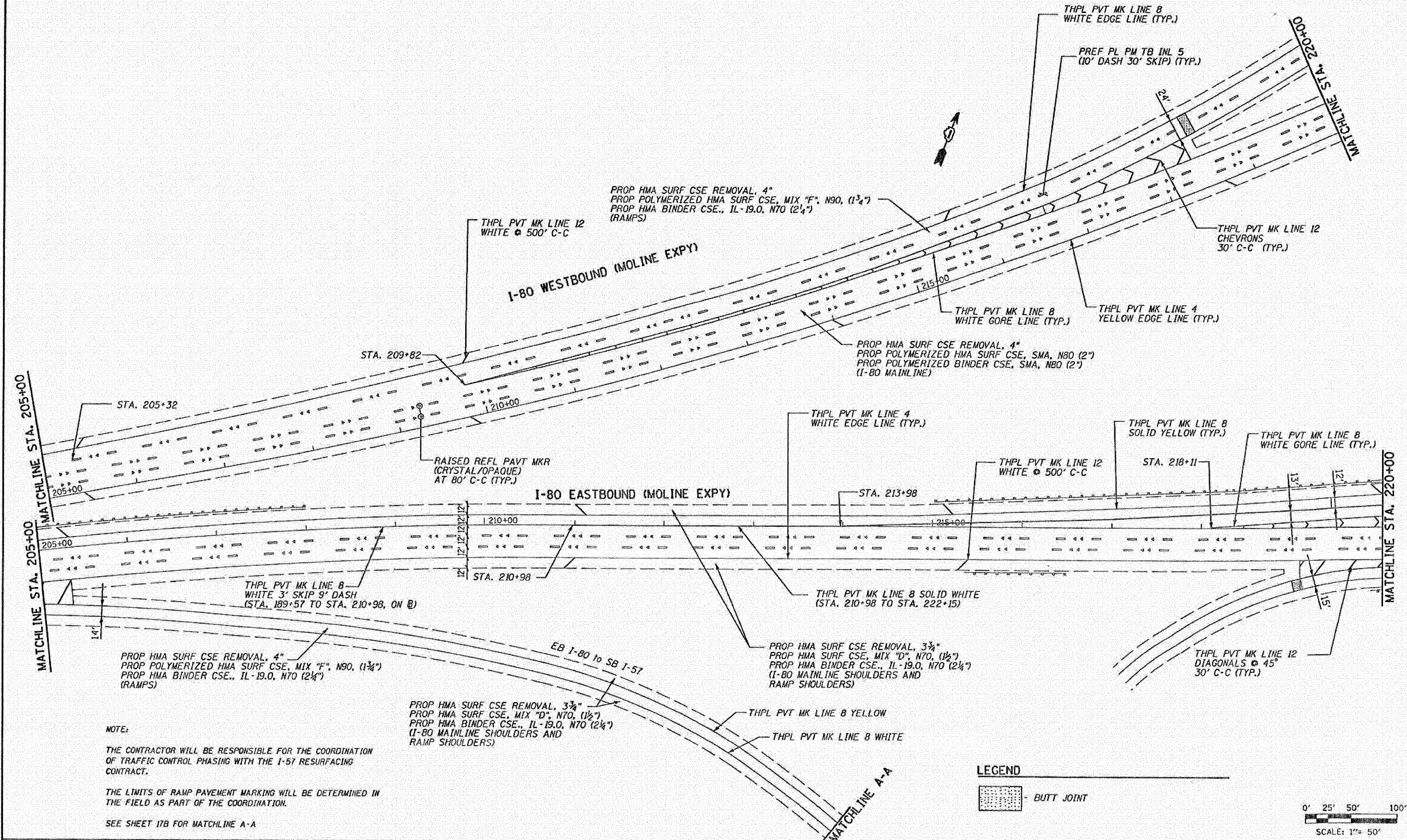
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PLOT DATE : #DATE#	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED PLAN STA. 190+00 TO 205+00
 I-80 (EAST OF 80th AVE. TO I-294)

SCALE: 1"=50' SHEET NO. 5 OF 15 SHEETS STA. 190+00 TO STA. 205+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	195-5-1, ETC, 1819-8241 RS-2	WILL & COOK	80	14
	C-91-145-09			CONTRACT NO. 60F61
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



NOTE:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF TRAFFIC CONTROL PHASING WITH THE I-57 RESURFACING CONTRACT.

THE LIMITS OF RAMP PAVEMENT MARKING WILL BE DETERMINED IN THE FIELD AS PART OF THE COORDINATION.

SEE SHEET 17B FOR MATCHLINE A-A

LOCO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 202
NAPERVILLE, ILLINOIS 60563 PH (630) 571-2100

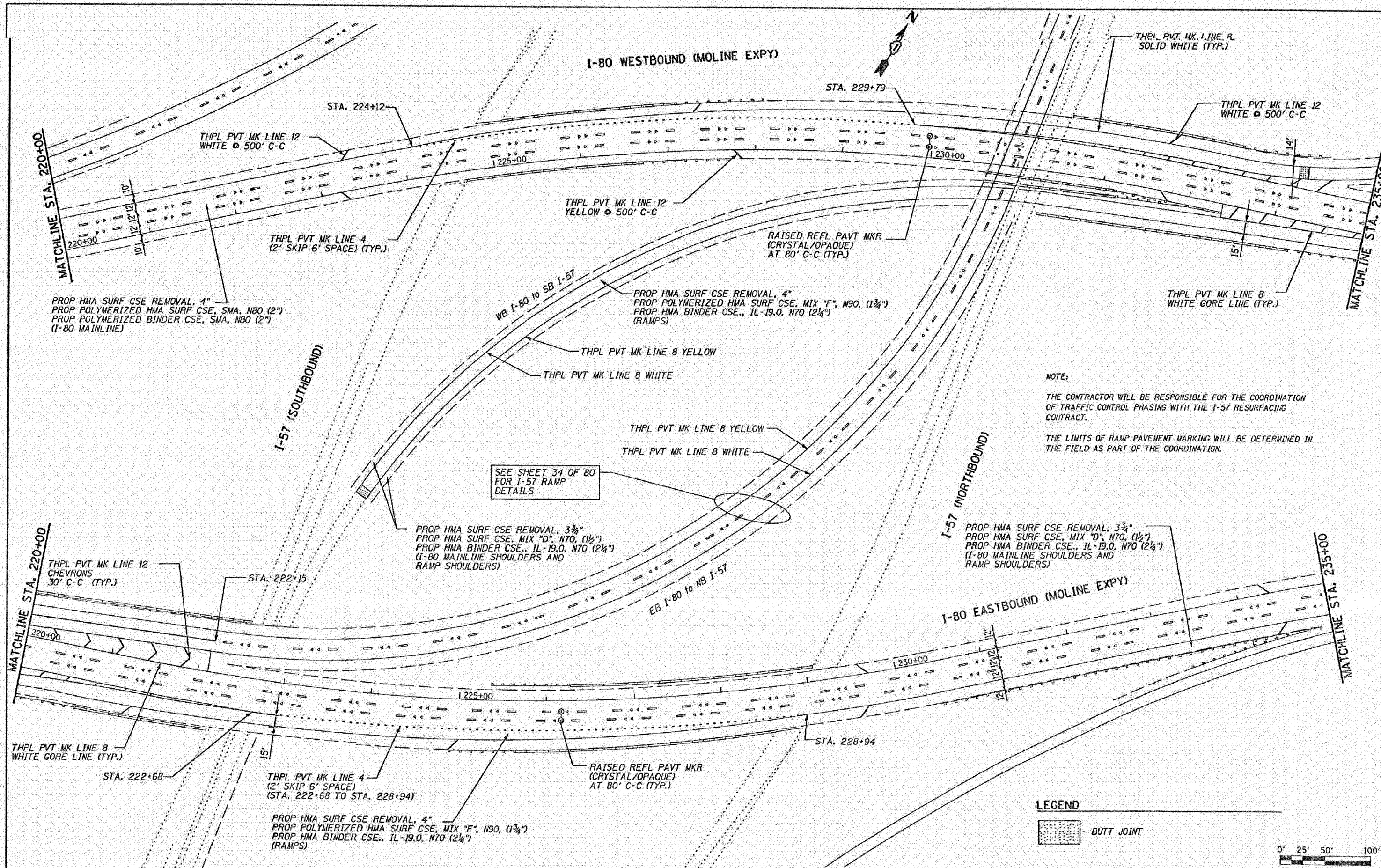
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PLOT SCALE * SCALE#	DRAWN - ST	REVISED -
PLOT DATE * DATE#	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED PLAN STA. 205+00 TO 220+00
I-80 (EAST OF 80th AVE. TO I-294)
SCALE: 1"=50' SHEET NO. 6 OF 15 SHEETS STA. 205+00 TO STA. 220+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	15
	C-91-145-09			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT NO. 60F51



LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
WAPERVILLE, ILLINOIS 60563 PH 630 577-9100

USER NAME = USER9	DESIGNED = MJY & ST	REVISED =
PLOT SCALE = #SCALE9	DRAWN = ST	REVISED =
PLOT DATE = #DATE9	CHECKED = WHE	REVISED =
	DATE = 07/08/2009	REVISED =

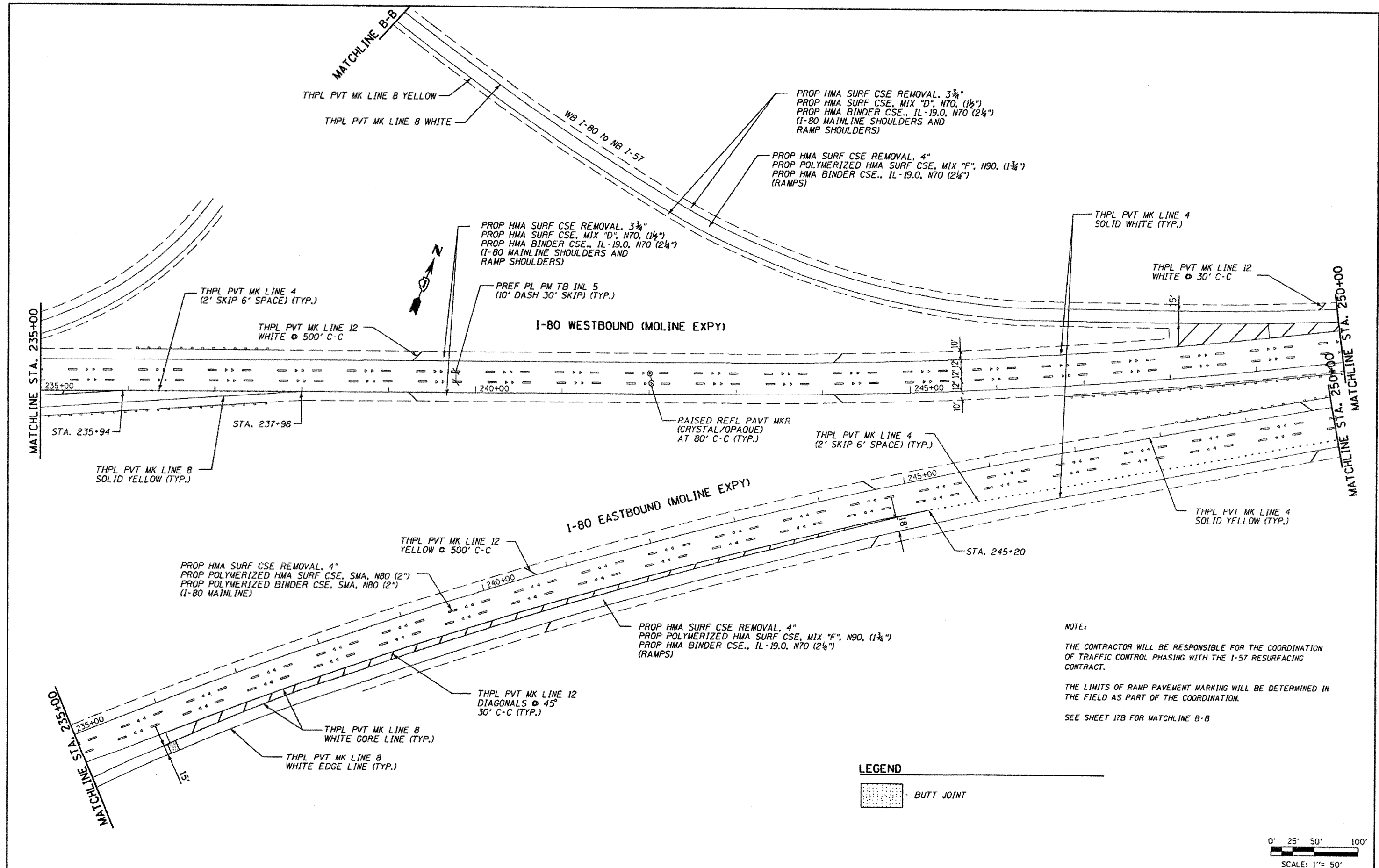
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED PLAN STA. 220+00 TO 235+00
I-80 (EAST OF 80th AVE. TO I-294)

SCALE: 1"=50' SHEET NO. 7 OF 15 SHEETS STA. 220+00 TO STA. 235+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC. 1819-824) RS-2	WILL & COOK	80	16
	C-91-145-09			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

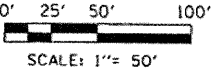
CONTRACT NO. 60F61



NOTE:
 THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF TRAFFIC CONTROL PHASING WITH THE I-57 RESURFACING CONTRACT.
 THE LIMITS OF RAMP PAVEMENT MARKING WILL BE DETERMINED IN THE FIELD AS PART OF THE COORDINATION.
 SEE SHEET 17B FOR MATCHLINE B-B

LEGEND

[Symbol] BUTT JOINT

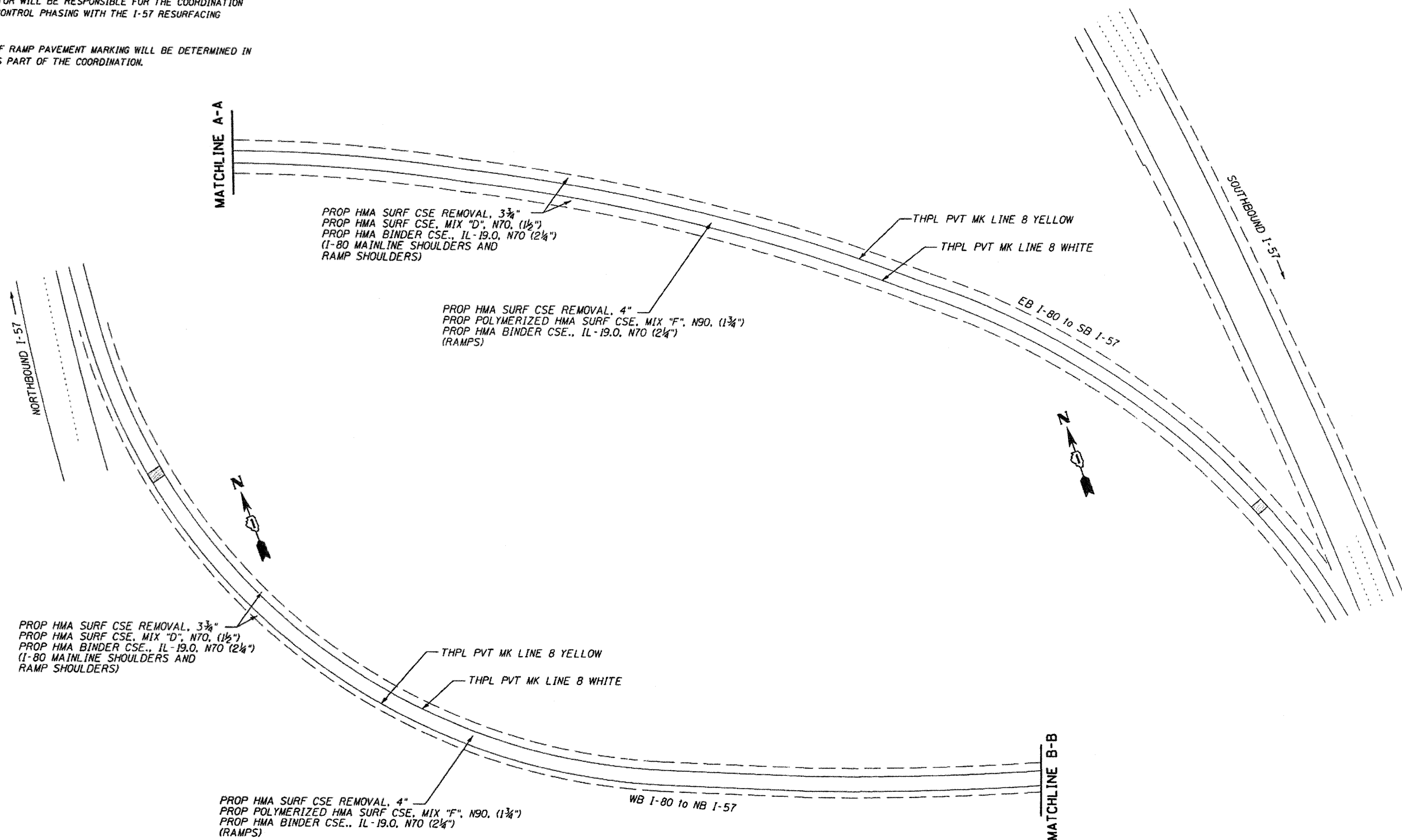


LONGCO, INC. CONSULTING ENGINEERS 1560 WALL ST., SUITE 222 NAPERVILLE, ILLINOIS 60563 PH 630/577-9100	USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING/PROPOSED PLAN STA. 235+00 TO 250+00 I-80 (EAST OF 80th AVE. TO I-294)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ST	REVISED -					80	(95-5-1, ETC. 1819-824) RS-2	WILL & COOK	80	17
	PLOT SCALE = #SCALE#	CHECKED - WHE	REVISED -		C-91-145-09		CONTRACT NO. 60F61					
	PLOT DATE = #DATE#	DATE - 07/08/2009	REVISED -		SCALE: 1"=50'	SHEET NO. 8 OF 15 SHEETS	STA. 235+00 TO STA. 250+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTE:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF TRAFFIC CONTROL PHASING WITH THE I-57 RESURFACING CONTRACT.

THE LIMITS OF RAMP PAVEMENT MARKING WILL BE DETERMINED IN THE FIELD AS PART OF THE COORDINATION.



LEGEND

BUTT JOINT

0' 25' 50' 100'
SCALE: 1" = 50'

LONGO, INC.
CONSULTING ENGINEERS
1540 WALL ST., SUITE 222
NAPERVILLE, ILLINOIS 60563 PH 16301 577-9100

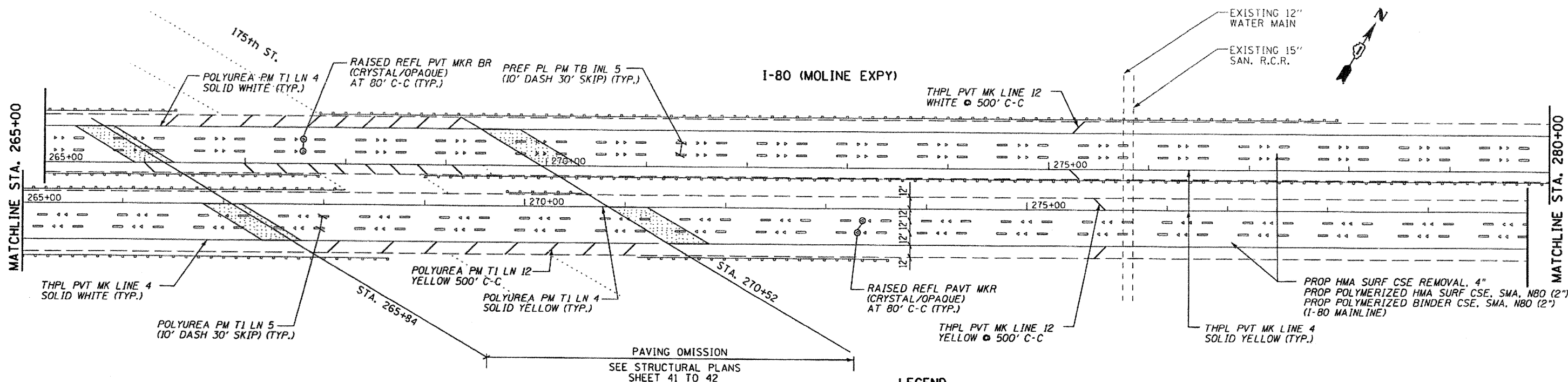
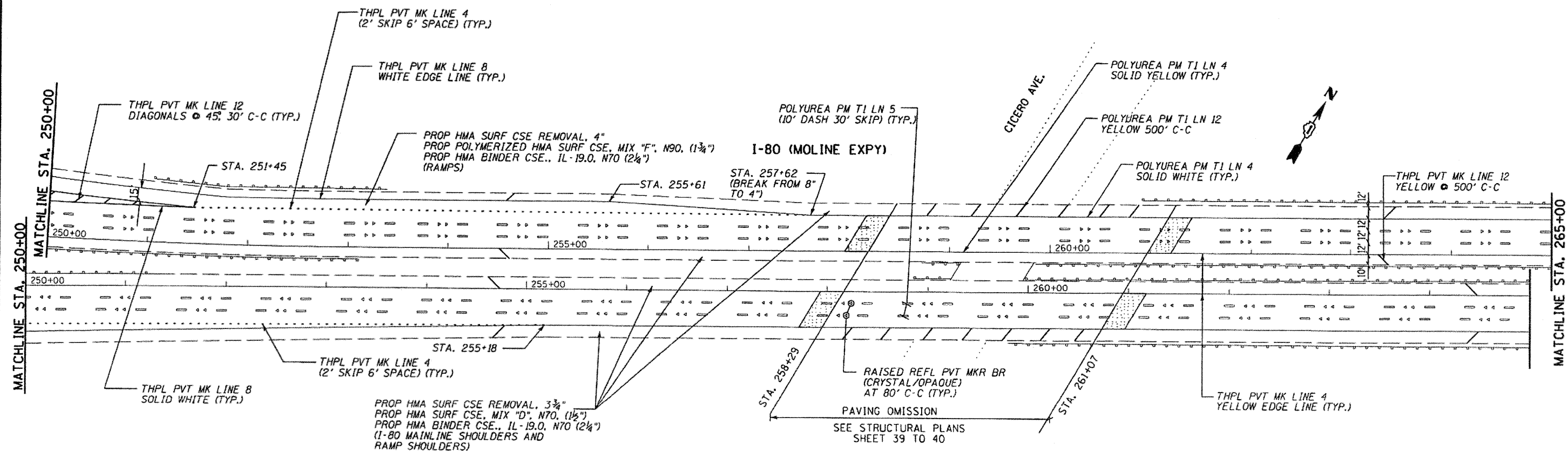
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	DRAWN - ST	REVISED -
PLOT SCALE = *SCALE*	CHECKED - WHE	REVISED -
PLOT DATE = *DATE*	DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

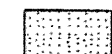
EXISTING/PROPOSED PLAN STA. 235+00 TO 250+00
I-80 (EAST OF 80th AVE. TO I-294)

SCALE: 1"=50' SHEET NO. 8 OF 15 SHEETS STA. 235+00 TO STA. 250+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC. 1819-824) RS-2	WILL & COOK	80	17A.
	C-91-145-09			CONTRACT NO. 60F61
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



LEGEND

 BUTT JOINT

0' 25' 50' 100'
SCALE: 1"= 50'

LOWCO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 222
HAVERVILLE, ILLINOIS 60563 PH 630/577-9100

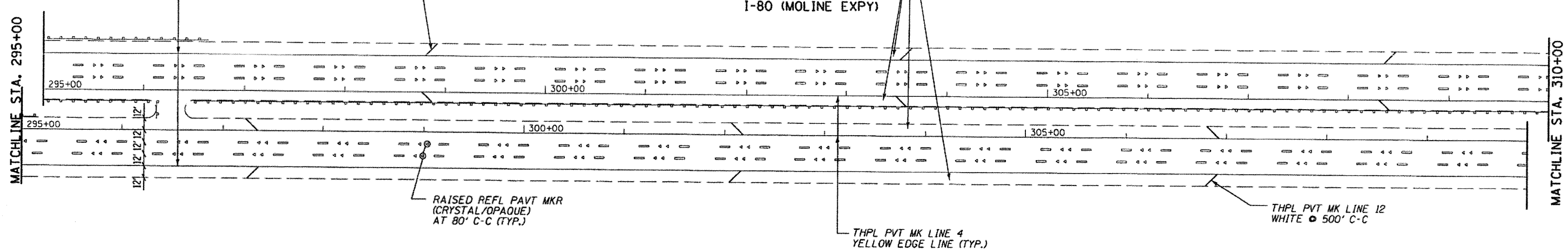
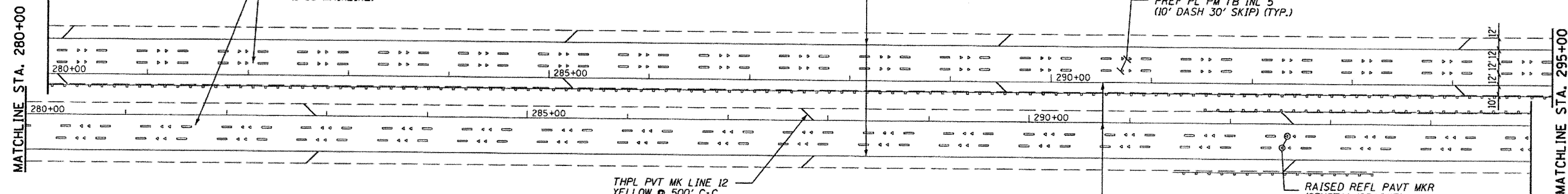
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PLOT DATE = 07/08/2009	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED PLAN STA. 250+00 TO 280+00
I-80 (EAST OF 80th AVE. TO I-294)

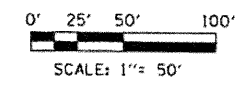
SCALE: 1"= 50' SHEET NO. 9 OF 15 SHEETS STA. 250+00 TO STA. 280+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	195-S-1, ETC. 1819-8241 RS-2	WILL & COOK	80	18
	C-91-145-09			CONTRACT NO. 60F61
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



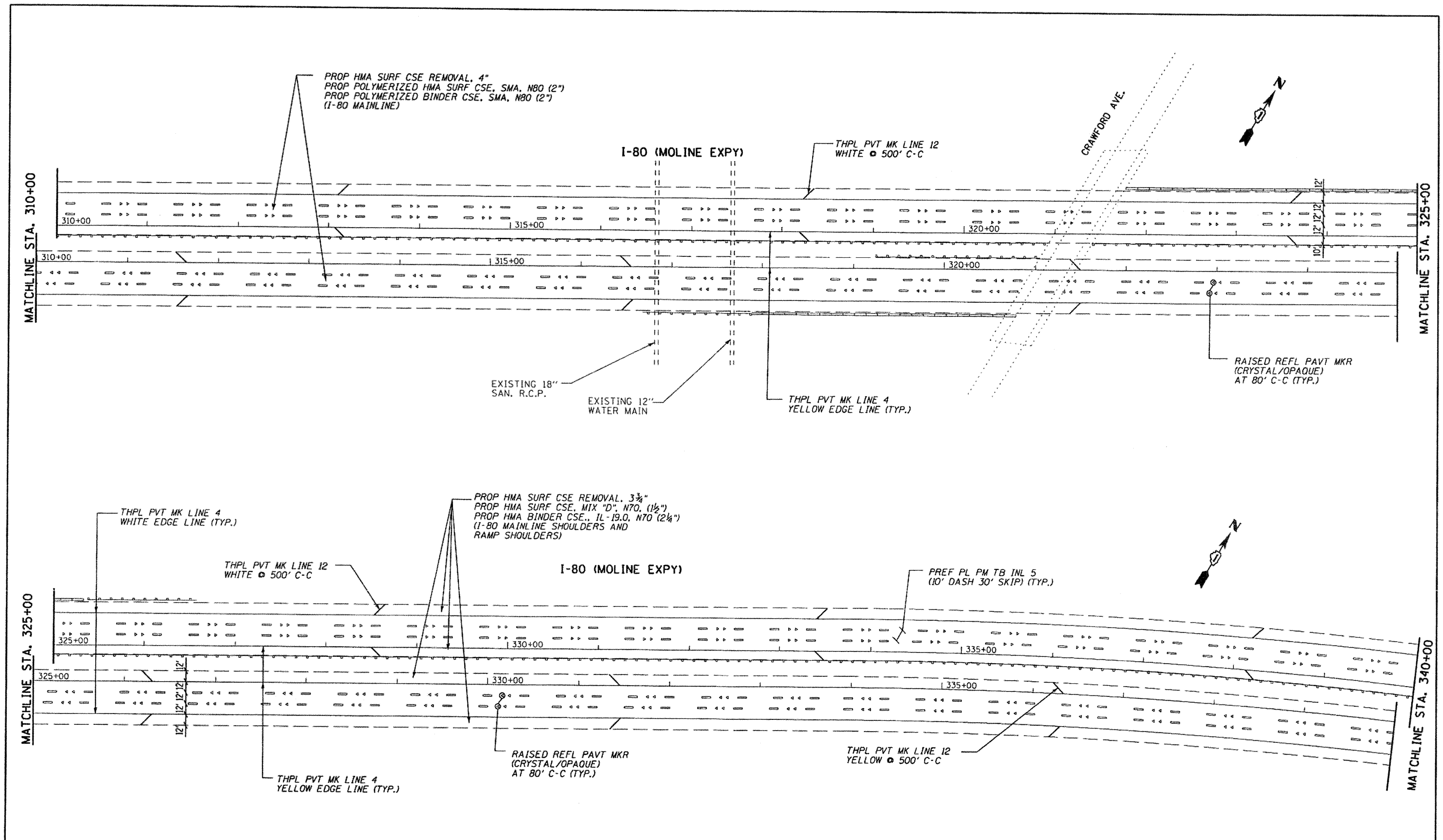
LEGEND

 BUTT JOINT



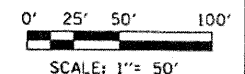
SCALE: 1"= 50'

LONGO INC. CONSULTING ENGINEERS 1560 WALL ST., SUITE 222 NAPERVILLE, ILLINOIS 60563 PH (630) 571-9100	USER NAME : #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING/PROPOSED PLAN STA. 280+00 TO 310+00 I-80 (EAST OF 80th AVE. TO I-294)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : #SCALE#	DRAWN - ST	REVISED -				80	(95-5-1, ETC. 1819-8241 RS-2	WILL & COOK	80	19
	PLOT DATE : #DATE#	CHECKED - WHE	REVISED -		SCALE: 1"=50'		SHEET NO. 10 OF 15 SHEETS		STA. 280+00 TO STA. 310+00		
	DATE - 07/08/2009	REVISED -			C-91-145-09		CONTRACT NO. 60F61				
							FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

BUTT JOINT



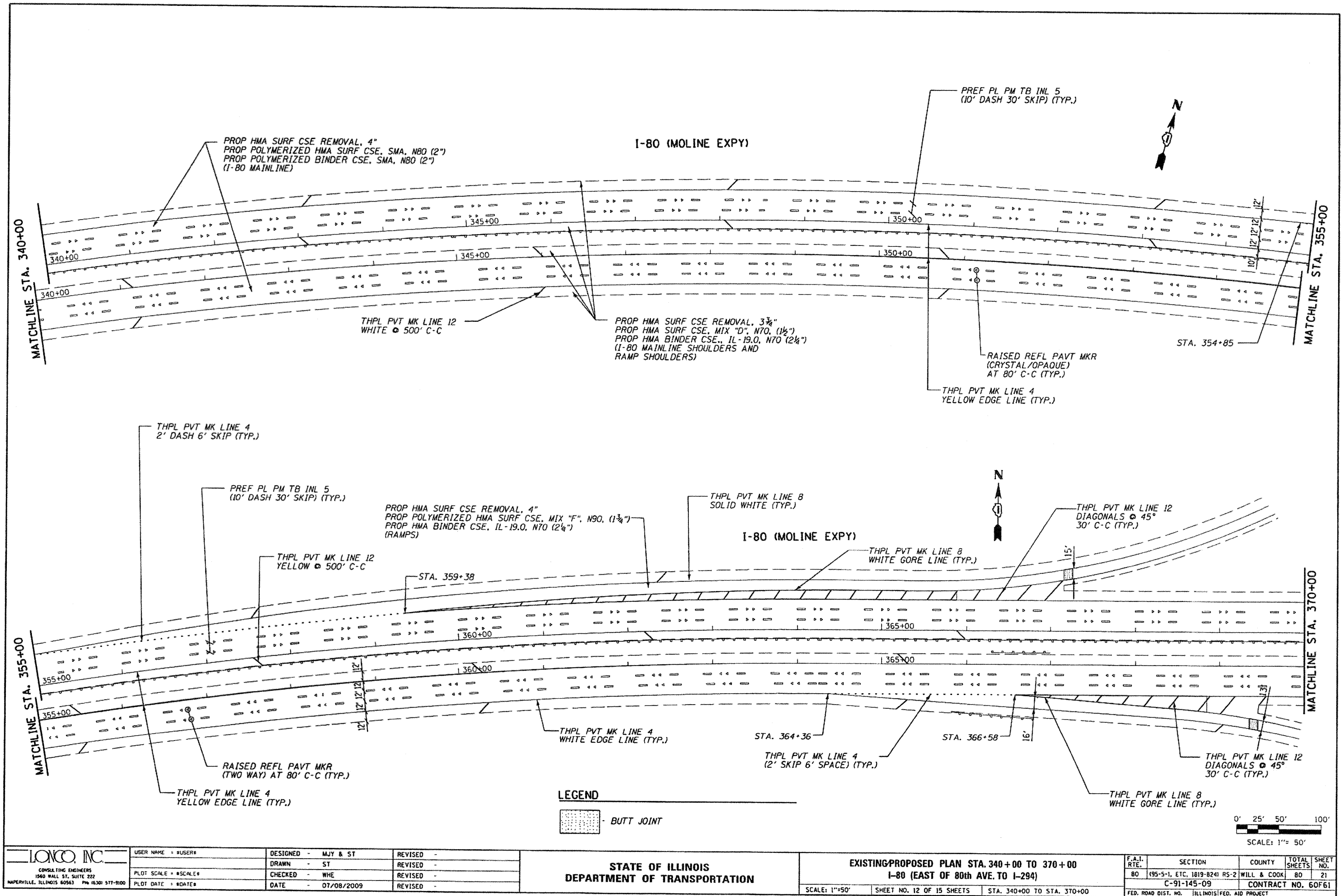
LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 222
HAVERVILLE, ILLINOIS 60563 PH 630/517-9100

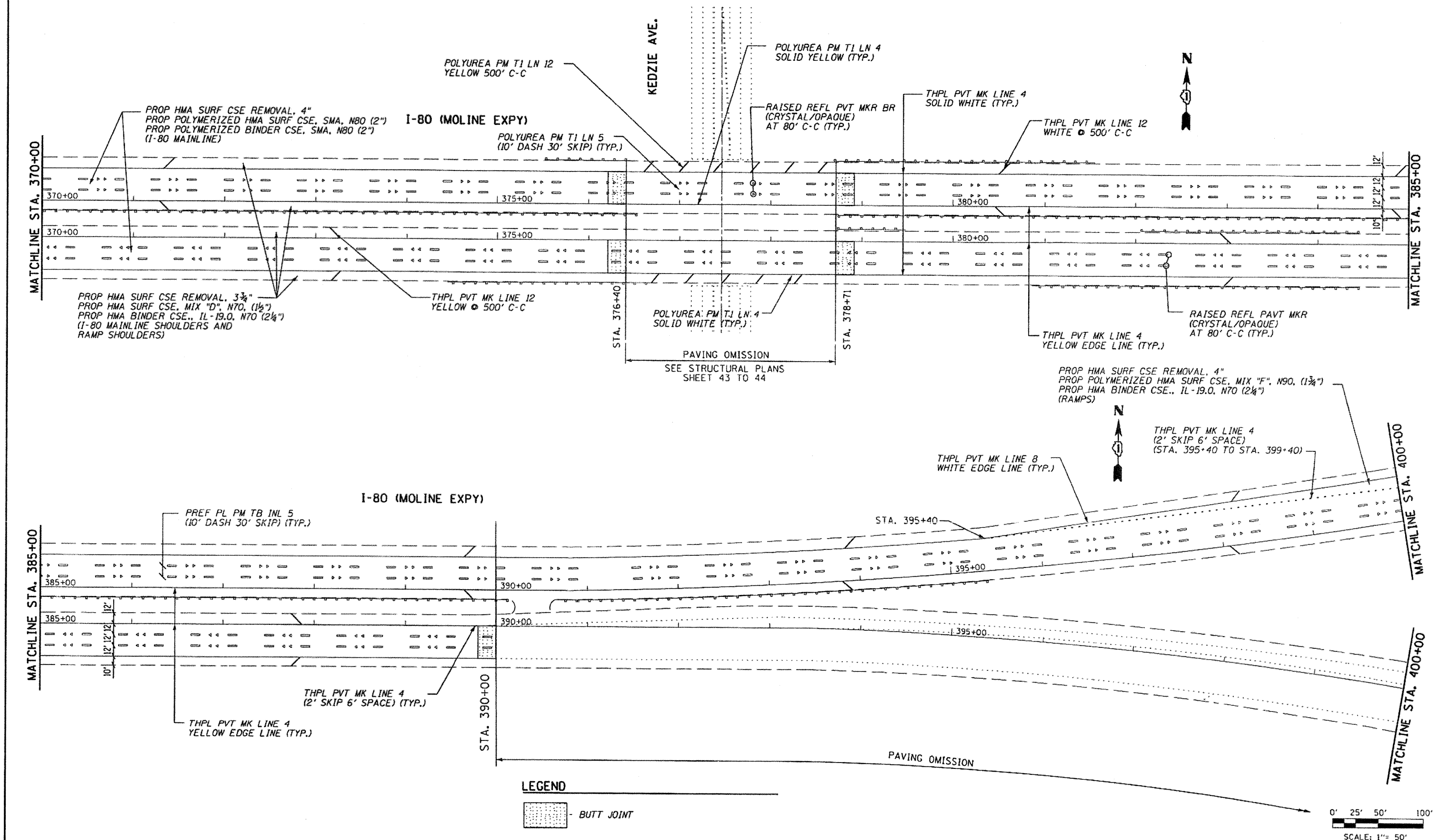
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PLOT DATE = #DATE#	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

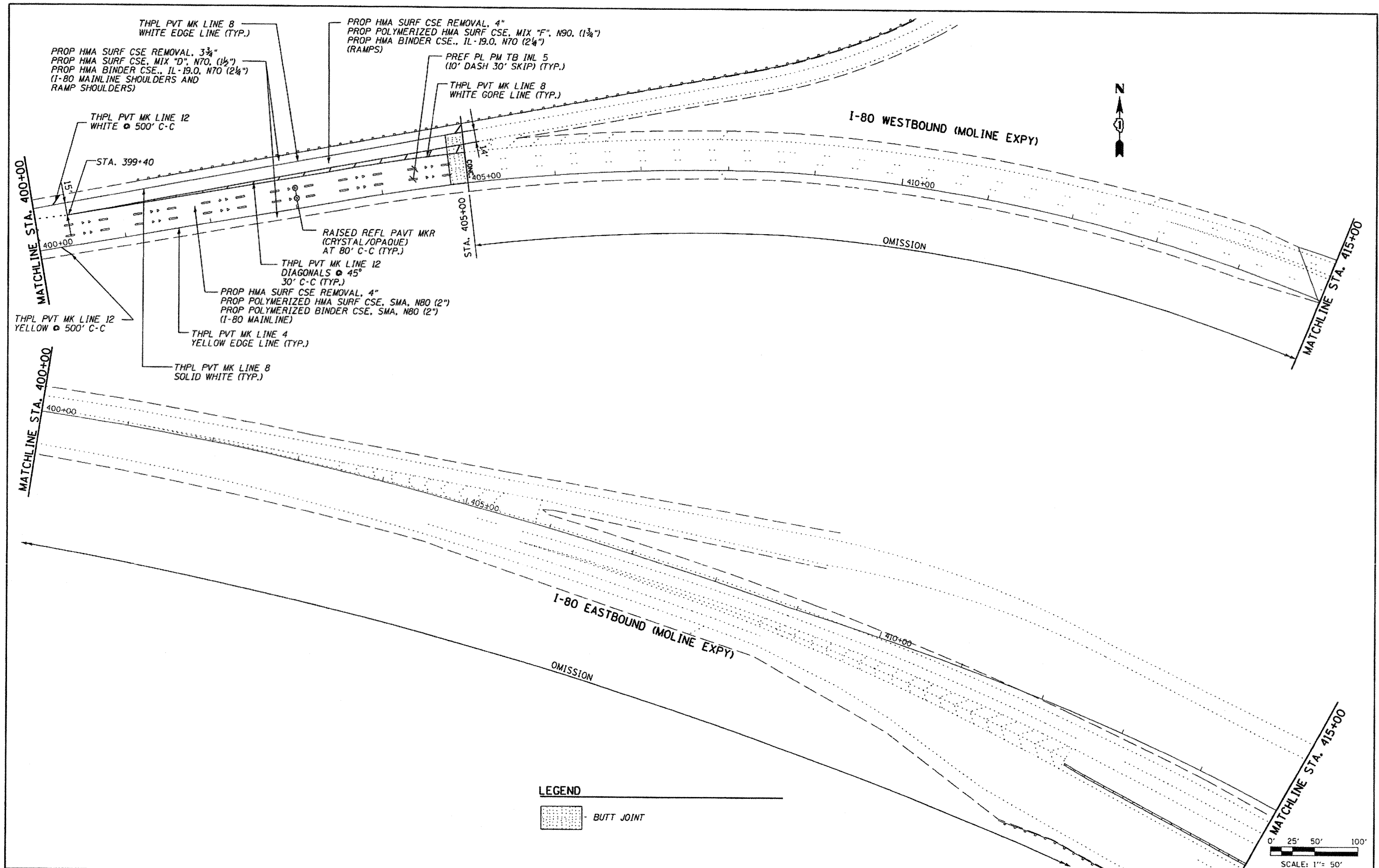
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING/PROPOSED PLAN STA. 310+00 TO 340+00 I-80 (EAST OF 80th AVE. TO I-294)		
SCALE: 1"=50'	SHEET NO. 11 OF 15 SHEETS	STA. 310+00 TO STA. 340+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	195-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	20
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		







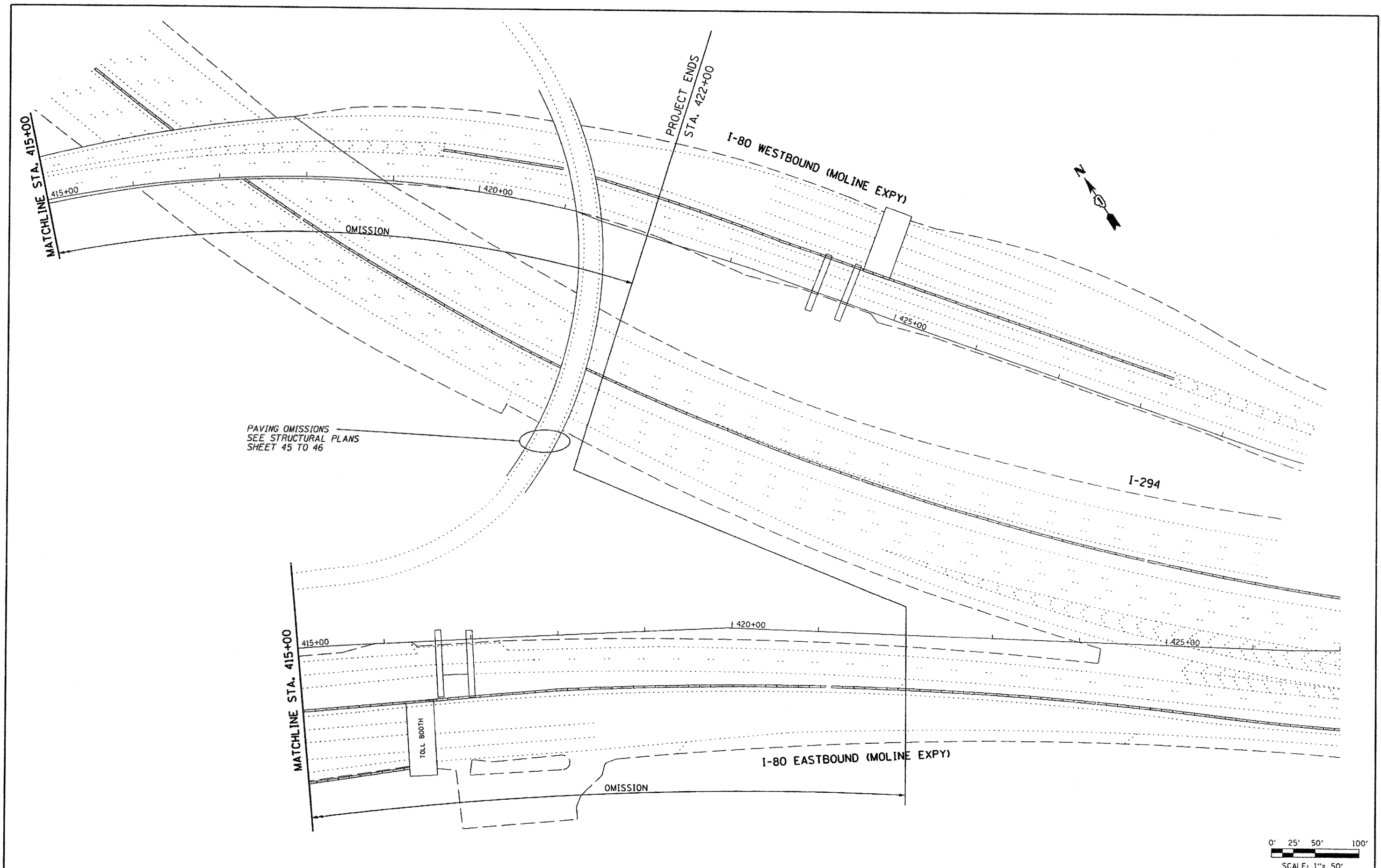
LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100

USER NAME - RUSERS	DESIGNED - MJY & ST	REVISED -
DRAWN - ST	REVISED -	
PLOT SCALE - 1"=50'	CHECKED - WHE	REVISED -
PLOT DATE - 07/08/2009	DATE - 07/08/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING/PROPOSED PLAN STA. 400+00 TO 415+00 I-80 (EAST OF 80th AVE. TO I-294)		
SCALE: 1"=50'	SHEET NO. 16 OF 15 SHEETS	STA. 400+00 TO STA. 415+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	195-5-1, ETC. 1819-8241 RS-2	WILL & COOK	80	23
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LONGO, INC. CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH (630) 517-9100	USER NAME = #USER#		DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 (EAST OF 80th AVE. - I-294)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#		DRAWN - ST	REVISED -		EXISTING/PROPOSED PLAN STA. 415+00 TO 427+00		80	(95-5-1, ETC. 1819-824) RS-2	WILL & COOK	80	24
	PLOT DATE = #DATE#		CHECKED - WHE	REVISED -		SCALE: 1"=50'		C-91-145-09		CONTRACT NO. 60F61		
			DATE - 07/08/2009	REVISED -		SHEET NO. 15 OF 15 SHEETS		STA. 415+00 TO STA. 427+00		ILLINOIS FED. AID PROJECT		

STAGE I

STAGE I NOTES

I. RAMPS

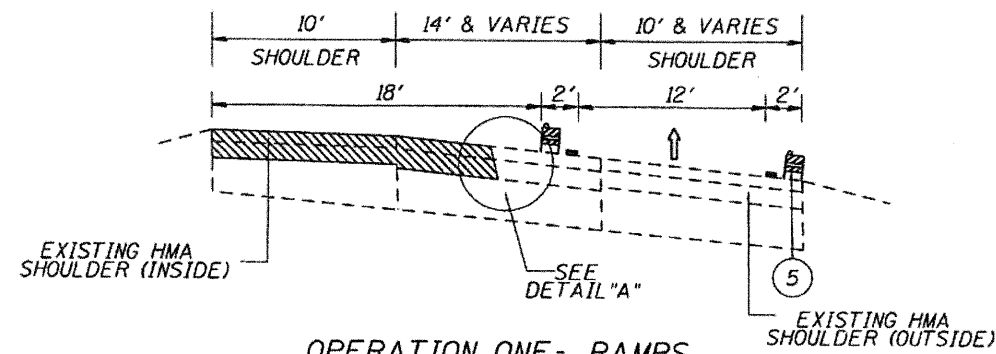
- A. SEQUENCE OF CONSTRUCTION: HMA SURFACE REMOVAL AND PROPOSED HMA COURSES. WORK CAN OCCUR CONCURRENTLY BUT THE AGREED SEQUENCE SHALL BE MAINTAINED AND NOT CONFLICT.
- B. SHOULDER, LANE AND PARTIAL RAMP CLOSURES PER STANDARD 701101, 701400 AND 701401 AND DISTRICT DETAIL TC-17 TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES AS IDENTIFIED IN THE SPECIAL PROVISIONS.

II. MAINLINE

- A. SEQUENCE OF CONSTRUCTION: CLASS D PATCHING, HMA SURFACE REMOVAL AND PROPOSED HMA COURSE. WORK CAN OCCUR CONCURRENTLY WITH THE RAMPS.
- B. CLASS D PATCHING
- LANE CLOSURES PER STANDARDS 701400, 701401
- C. BARRIER WALL AND GLARE SCREEN REPAIRS. SHOULDER AND LANE CLOSURES PER STANDARDS 701101 AND 701401 FOR TRAFFIC CONTROL DURING ALLOWABLE SHOULDER AND LANE CLOSURES AS IDENTIFIED IN THE SPECIAL PROVISIONS.
- D. SHOULDER AND EMBANKMENT WORK
- OUTSIDE SHOULDERS. SHOULDER, LANE CLOSURES AND PARTIAL RAMP CLOSURES PER STANDARDS 701101, 701400 AND DISTRICT DETAIL TC-17 FOR TRAFFIC CONTROL DURING ALLOWABLE CLOSURES AS IDENTIFIED IN THE SPECIAL PROVISIONS.
 - MEDIAN. TRAFFIC CONTROL PER MAINTENANCE OF TRAFFIC PLANS. PERMANENT LANE CLOSURES SHOWN IN STAGE I FOR I-80 SHALL NOT EXCEED 30 CALENDER DAYS. TEMPORARY LANE CLOSURES OUTSIDE THE 30 CALENDER DAYS ARE ALLOWED AS STIPULATED IN THE SPECIAL PROVISIONS

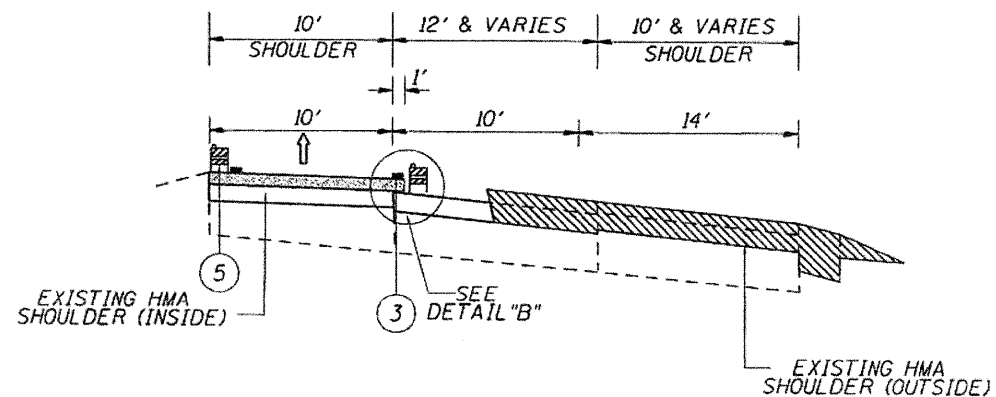
THE CONTRACTOR SHALL ERECT ROAD CONSTRUCTION AHEAD SIGNS (W20-1103(0)48) WITH FLASHING BEACON ON ALL ARTERIAL ROADWAYS APPROACHING INTERCHANGE RAMPS.

- III. REMOVAL OF TEMPORARY PAVEMENT MARKING, WHEN REQUIRED, SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".
- IV. REMOVAL OF EXISTING PAVEMENT MARKING, WHEN REQUIRED, SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL".
- V. EXISTING OR TEMPORARY PAVEMENT MARKINGS REMOVED DURING MILLING OPERATIONS WILL NOT BE PAID SEPARATELY.
- VI. CASTINGS EXPOSED IN TRAVEL LANES SHALL BE PROTECTED PER APPLICABLE PORTIONS OF ARTICLE 603.07 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE VARIOUS HMA BINDER AND SURFACE COURSES PLACED.



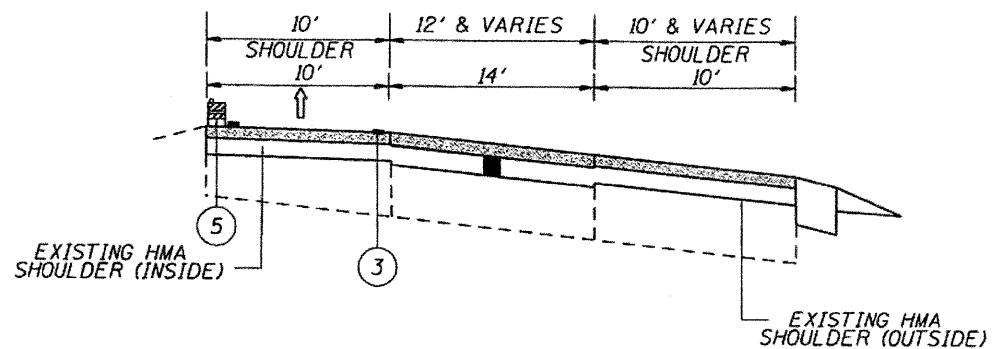
OPERATION ONE - RAMPS

- HMA SURFACE REMOVAL 4" - LANE (MIX "F")
- HMA SURFACE REMOVAL 3 3/4" - INSIDE RAMP SHOULDER (MIX "D")
- PLACE 2 1/4" HMA BINDER CSE (MIX "D")
- PLACE 1 1/2" HMA SURFACE CSE - INSIDE SHOULDER (MIX "D")



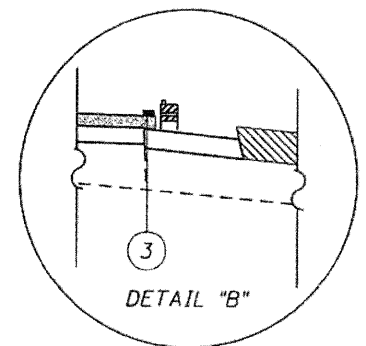
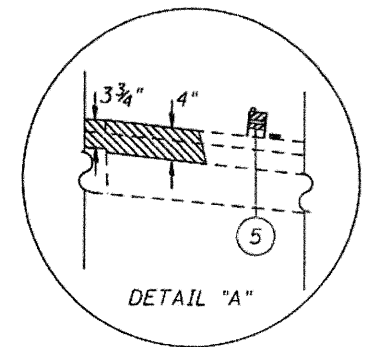
OPERATION TWO - RAMPS

- HMA SURFACE REMOVAL 4" - LANE (MIX "F")
- HMA SURFACE REMOVAL 3 3/4" - OUTSIDE RAMP SHOULDER (MIX "D")
- PLACE 2 1/4" HMA BINDER CSE



OPERATION THREE - RAMPS

- PLACE 1 3/4" HMA SURFACE CSE - RAMP LANE (MIX "F")



LEGEND

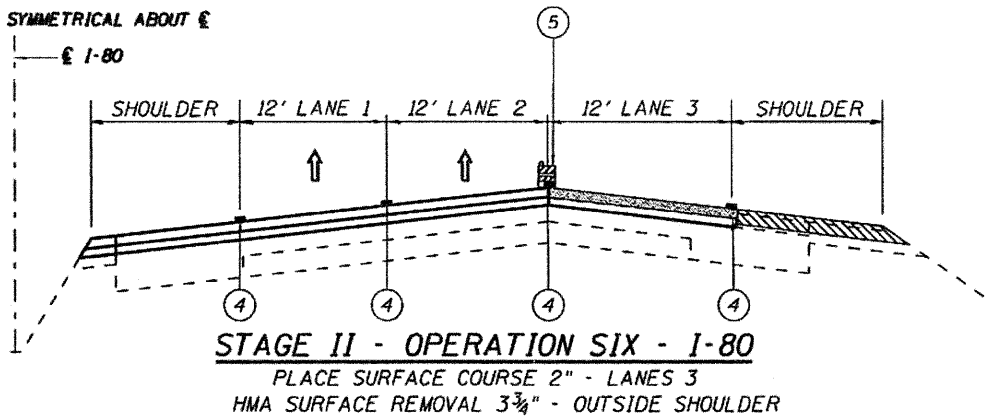
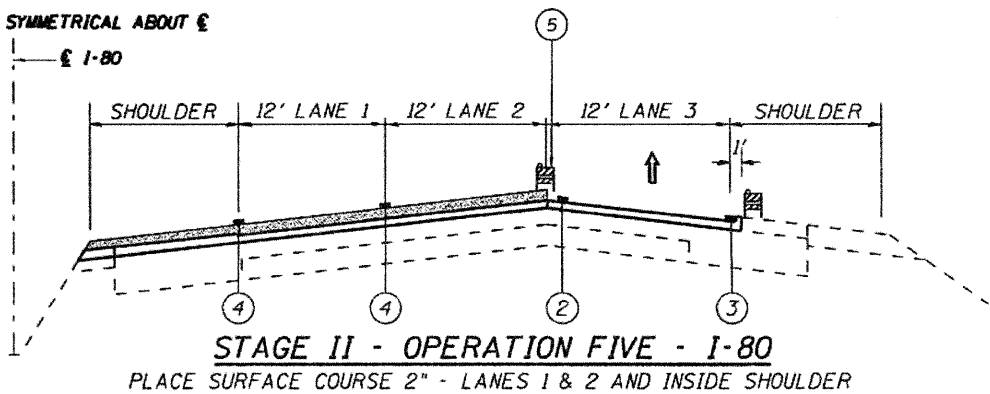
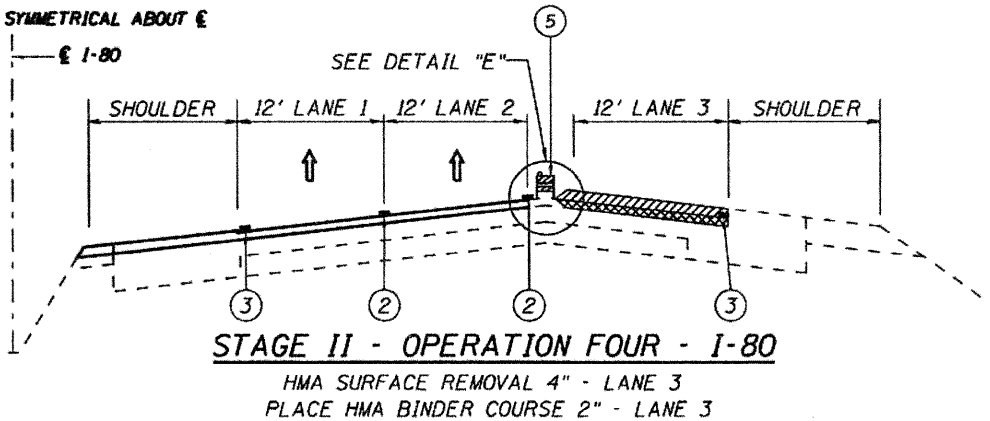
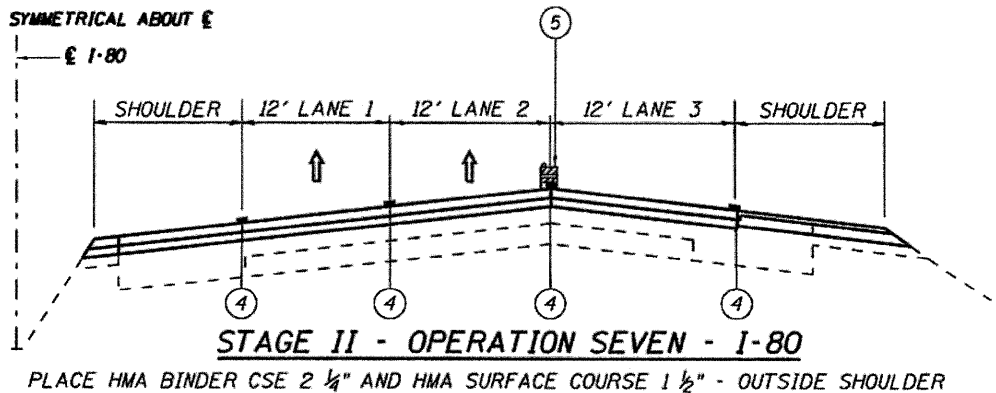
- ① EXISTING PAVEMENT MARKING
- ② WET REFLECTIVE TEMPORARY TAPE, TYPE III, 5" (10' DASH - 30' SKIP) *
- ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" * (YELLOW LEFT & WHITE RIGHT) INSTALLED WITHIN 24 HOURS OF MILLING OR BINDER PLACEMENT.
- ④ PROPOSED PAVEMENT MARKING. SEE PAVEMENT MARKING PLANS.
- ⑤ VERTICAL BARRICADES WITH STEADY BURNING MONO DIRECTIONS LIGHT AT 100' C-C SPACING.

* - USE EPOXY PAVEMENT MARKING ON MILLED SURFACE

STAGE II (CONTINUED)

STAGE II NOTES

1. SEQUENCE OF CONSTRUCTION: PAVEMENT PATCHING, HMA SURFACE REMOVAL AND PROPOSED HMA COURSE AS DETAILED IN EACH OPERATION SECTION. WORK CAN OCCUR CONCURRENTLY, BUT SEQUENCE SHALL BE MAINTAINED AND NOT CONFLICT. THE TWO LANE SECTION OF I-80 WILL FOLLOW THE SEQUENCE OF LANES 1 AND 3 IN THE OPERATION SECTIONS. RAMP WORK WILL BE COMPLETED USING DISTRICT DETAIL TC-18 - FREEWAY AND EXIT RAMP CLOSURE DETAILS.
2. LANE AND RAMP CLOSURES ALLOWED AS STIPULATED IN THE SPECIAL PROVISIONS.
3. HMA SURFACE REMOVAL AND RESURFACING OPERATIONS FOR STAGE II SHALL NOT BEGIN UNTIL STAGE I IS COMPLETED.
4. LANE CLOSURES PER STANDARDS 701400, 701401 AND 701446.
5. REDUCE LANE WIDTH USING 35:1 TAPER PER DISTRICT TC-9 - TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE. A W5-1 (48 X 48) ROAD NARROWS SIGN WILL BE ERECTED 500' IN ADVANCE OF THE TAPER.
6. THE CONTRACTOR SHALL ERECT ROAD CONSTRUCTION AHEAD SIGNS (W20-1103(O)-48) WITH FLASHING BEACON ON ALL ARTERIAL ROADWAYS APPROACHING INTERCHANGE RAMP.
7. GRADE DIFFERENTIAL BETWEEN LANES SHALL NOT EXCEED 2".
8. PARTIAL MILLING OF PAVEMENT FOR AN OPERATION WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE PAID FOR AT THE FINAL MILLING THICKNESS SHOWN ON THE TYPICAL SECTIONS.
9. REMOVAL OF TEMPORARY PAVEMENT MARKING, WHEN REQUIRED, SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".
10. REMOVAL OF EXISTING PAVEMENT MARKING, WHEN REQUIRED, SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL".
11. EXISTING OR TEMPORARY PAVEMENT MARKINGS REMOVED DURING MILLING OPERATIONS WILL NOT BE PAID FOR SEPARATELY.
12. CASTINGS EXPOSED IN TRAVEL LANES SHALL BE PROTECTED PER APPLICABLE PORTIONS OF ARTICLE 603.07 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE VARIOUS HMA BINDER AND SURFACE COURSES PLACED.



- LEGEND
- ① EXISTING PAVEMENT MARKING
 - ② WET REFLECTIVE TEMPORARY TAPE, * TYPE III, 5" (10' DASH - 30' SKIP)
 - ③ WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" * (YELLOW LEFT & WHITE RIGHT) INSTALLED WITHIN 24 HOURS OF MILLING OR BINDER PLACEMENT.
 - ④ PROPOSED PAVEMENT MARKING. SEE PAVEMENT MARKING PLANS.
 - ⑤ VERTICAL BARRICADES WITH STEADY BURNING MONO DIRECTIONS LIGHT AT 100' C-C SPACING.
- * - USE TEMPORARY EPOXY PAVEMENT MARKING ON MILLED SURFACE

LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST. SUITE 222
HAWKINSVILLE, ILLINOIS 60143
P: (630) 517-9100

DESIGNED - MJY
DRAWN - TS, ST, SV
CHECKED - MJY
DATE - 07/08/2009

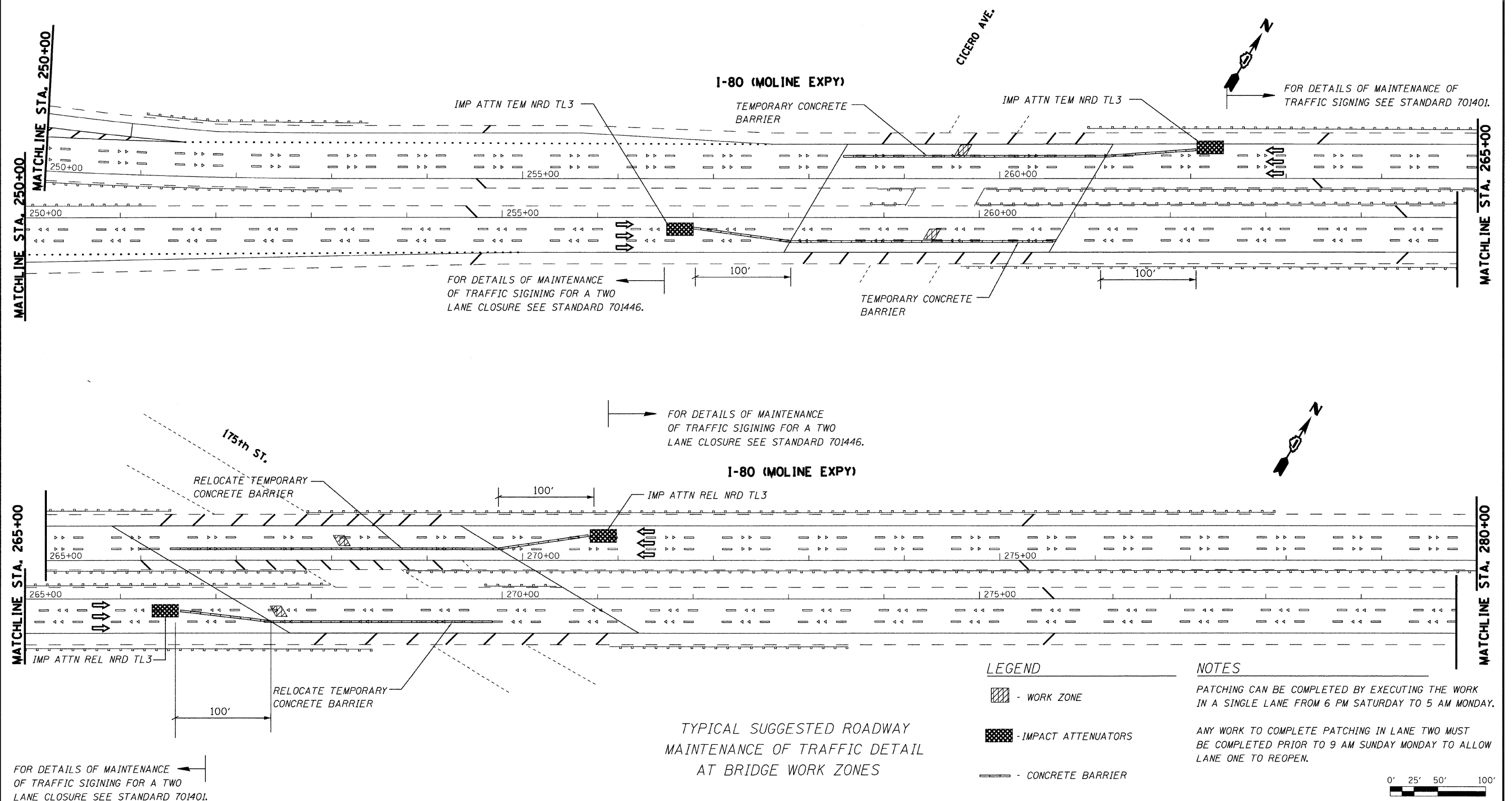
REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

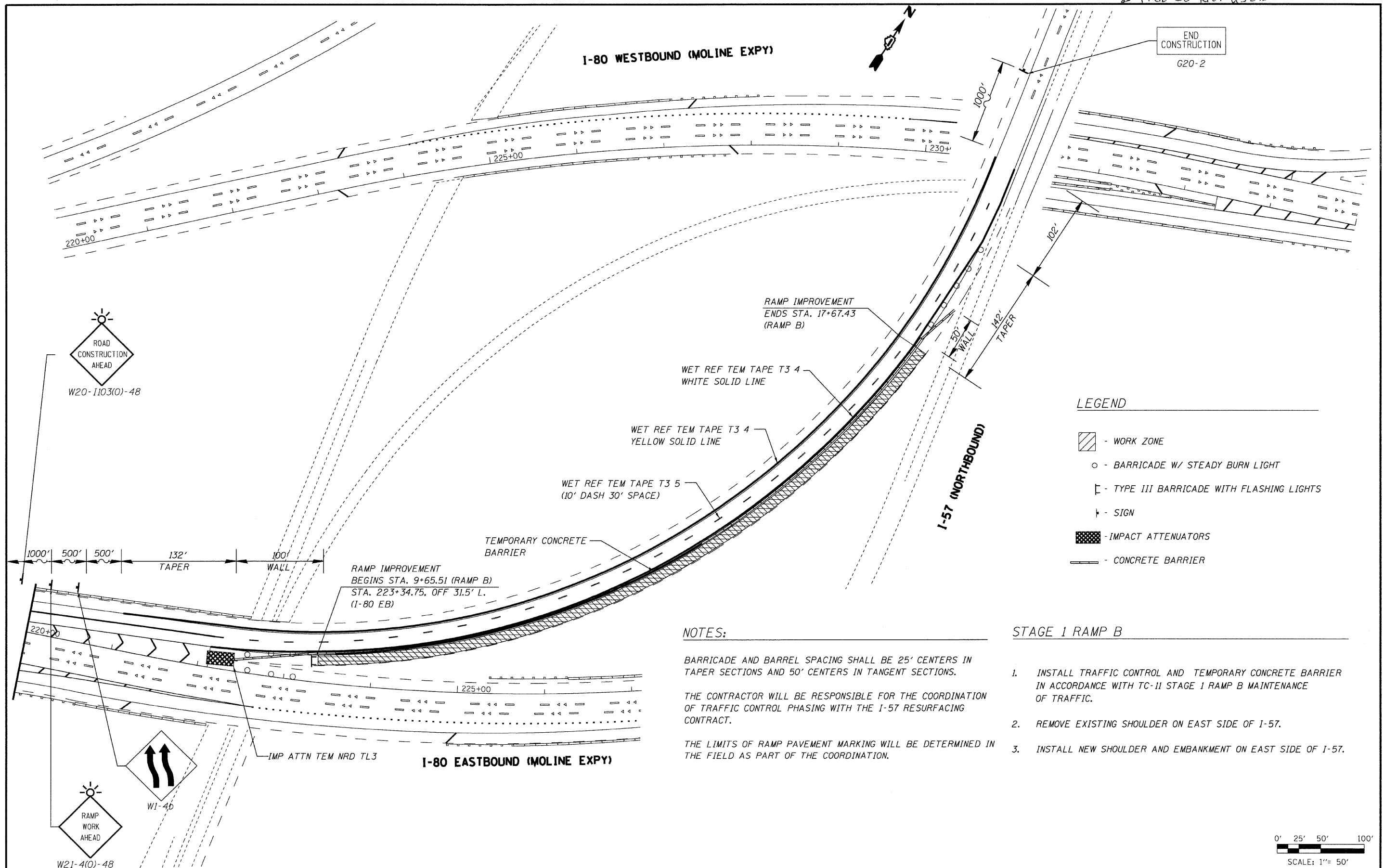
SUGGESTED MAINTENANCE OF TRAFFIC
I-80 (EAST OF 80th AVE. TO I-294)

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. 81+61 TO STA. 427+00

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	27
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LONGO, INC. CONSULTING ENGINEERS 1560 WALL ST., SUITE 222 NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100	USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGESTED MAINTENANCE OF TRAFFIC I-80 (EAST OF 80th AVE. TO I-294)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN - ST	REVISED -					80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	29		
	PLOT SCALE = #SCALE#	CHECKED - WHE	REVISED -		SCALE: 1"=50'			SHEET NO. 1 OF 2 SHEETS		STA. 250+00 TO STA. 280+00		C-91-145-09		CONTRACT NO. 60F61
	PLOT DATE = #DATE#	DATE - 07/08/2009	REVISED -											



LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH 630/517-9100

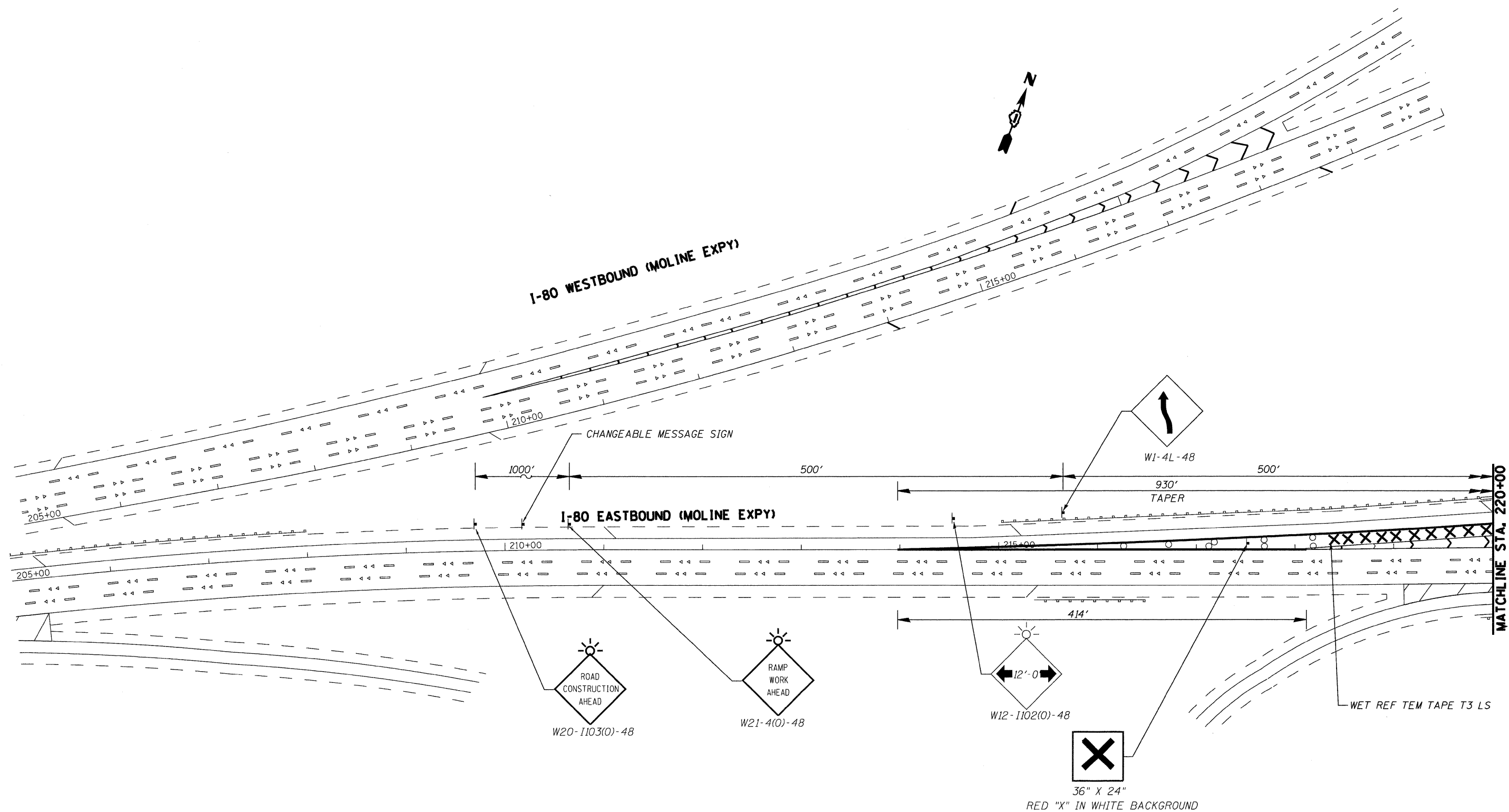
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PLOT SCALE = #SCALE#	DRAWN - ST	REVISED -
PLOT DATE = #DATE#	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION STAGING PLAN - STAGE 1 - RAMP B
I-80 RAMP (EASTBOUND TO NORTH BOUND I-57)**

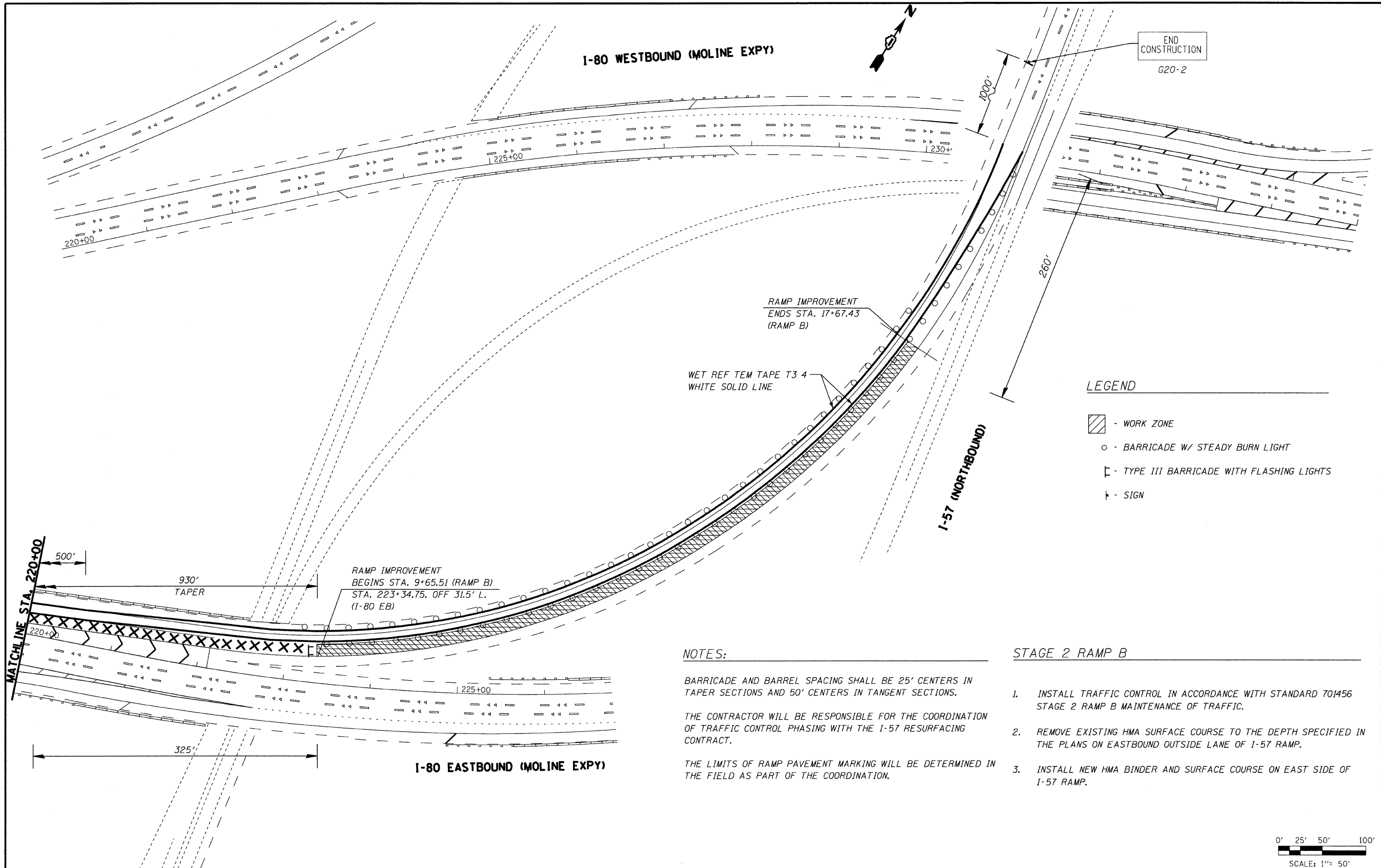
SCALE: 1"=50' SHEET NO. 1 OF 5 SHEETS STA. 220+00 TO STA. 235+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	31
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

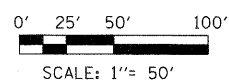
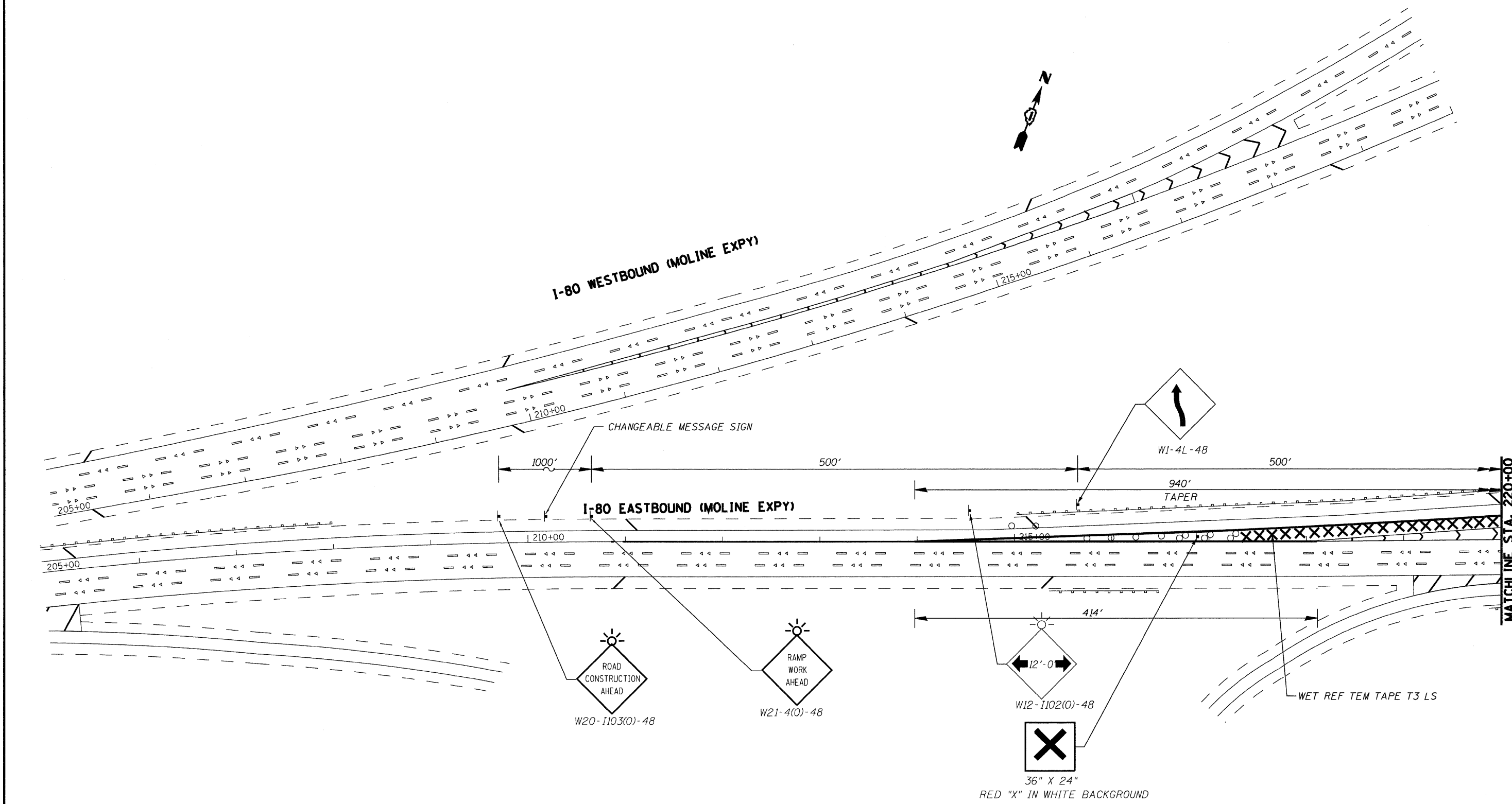


0' 25' 50' 100'
SCALE: 1"= 50'

LONCO, INC. CONSULTING ENGINEERS 1560 WALL ST., SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: 630/577-9100	USER NAME = #USER#		DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION STAGING PLAN - STAGE 2 - RAMP B I-80 RAMP (EASTBOUND TO NORTH BOUND I-57)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#		DRAWN - ST	REVISED -		SCALE: 1"=50' SHEET NO. 2 OF 5 SHEETS STA. 205+00 TO STA. 220+00			80	(95-5-1, ETC. 1819-824) RS-2	WILL & COOK	80	32
	PLOT DATE = #DATE#		CHECKED - WHE	REVISED -					C-91-145-09 CONTRACT NO. 60F61				
			DATE - 07/08/2009	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LOWCO, INC. CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION STAGING PLAN - STAGE 2 - RAMP B I-80 RAMP (EASTBOUND TO NORTH BOUND I-57)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - ST	REVISED -					80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	32A
	PLOT DATE = #DATE#	CHECKED - WHE	REVISED -		C-91-145-09		CONTRACT NO. 60F61					
	DATE - 07/08/2009	REVISED -	SCALE: 1"=50'		SHEET NO. 3 OF 5 SHEETS	STA. 220+00 TO STA. 235+00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			



LOVCO, INC.
 CONSULTING ENGINEERS
 1560 WALL ST, SUITE 222
 NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100

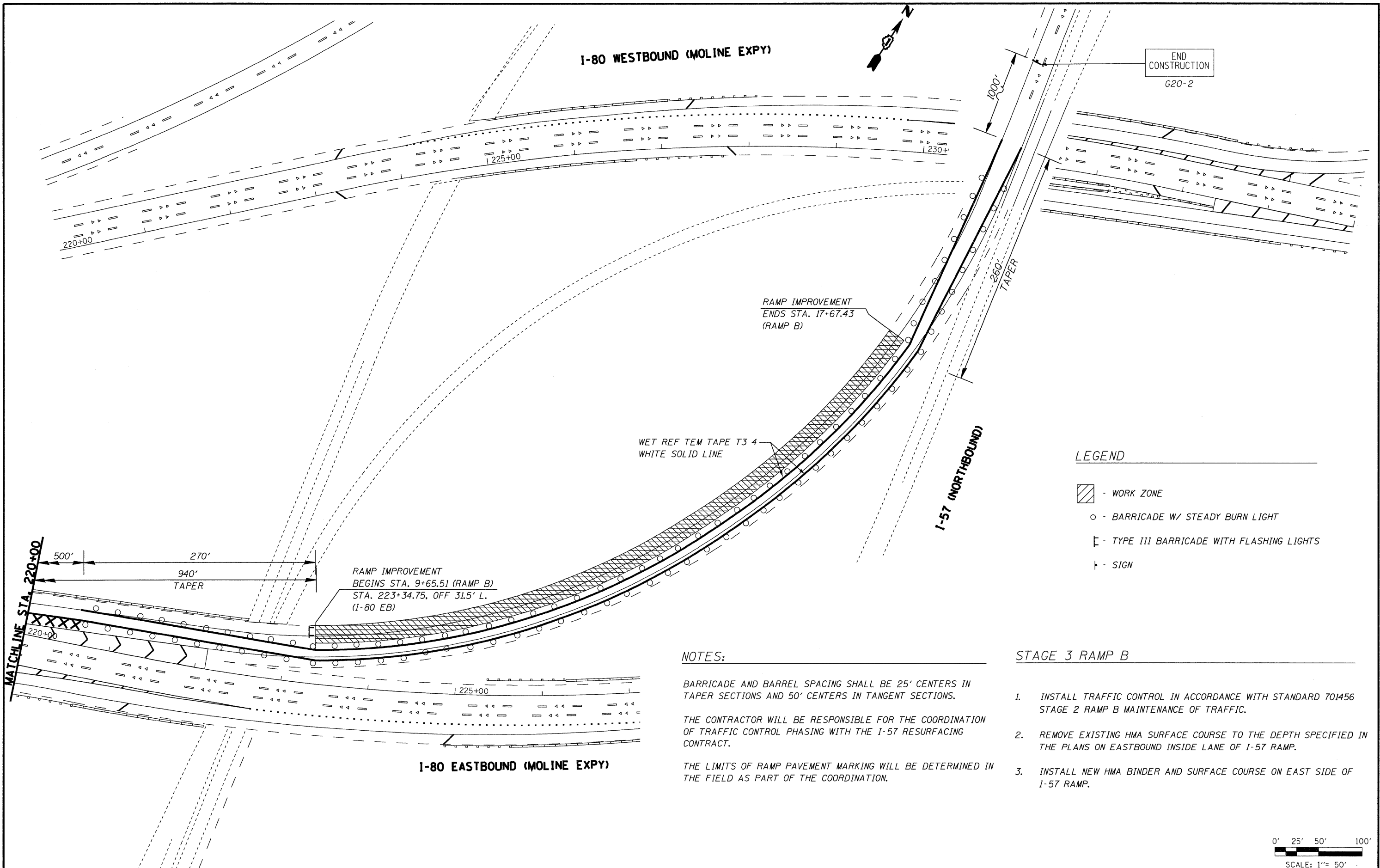
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PLOT DATE = *DATE*	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION STAGING PLAN - STAGE 3 - RAMP B
 I-80 RAMP (EASTBOUND TO NORTH BOUND I-57)**

SCALE: 1"=50' SHEET NO. 4 OF 5 SHEETS STA. 220+00 TO STA. 235+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	33.
C-91-145-09				CONTRACT NO. 60F61
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- LEGEND**
- WORK ZONE
 - BARRICADE W/ STEADY BURN LIGHT
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - SIGN

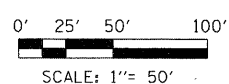
NOTES:

BARRICADE AND BARREL SPACING SHALL BE 25' CENTERS IN TAPER SECTIONS AND 50' CENTERS IN TANGENT SECTIONS.

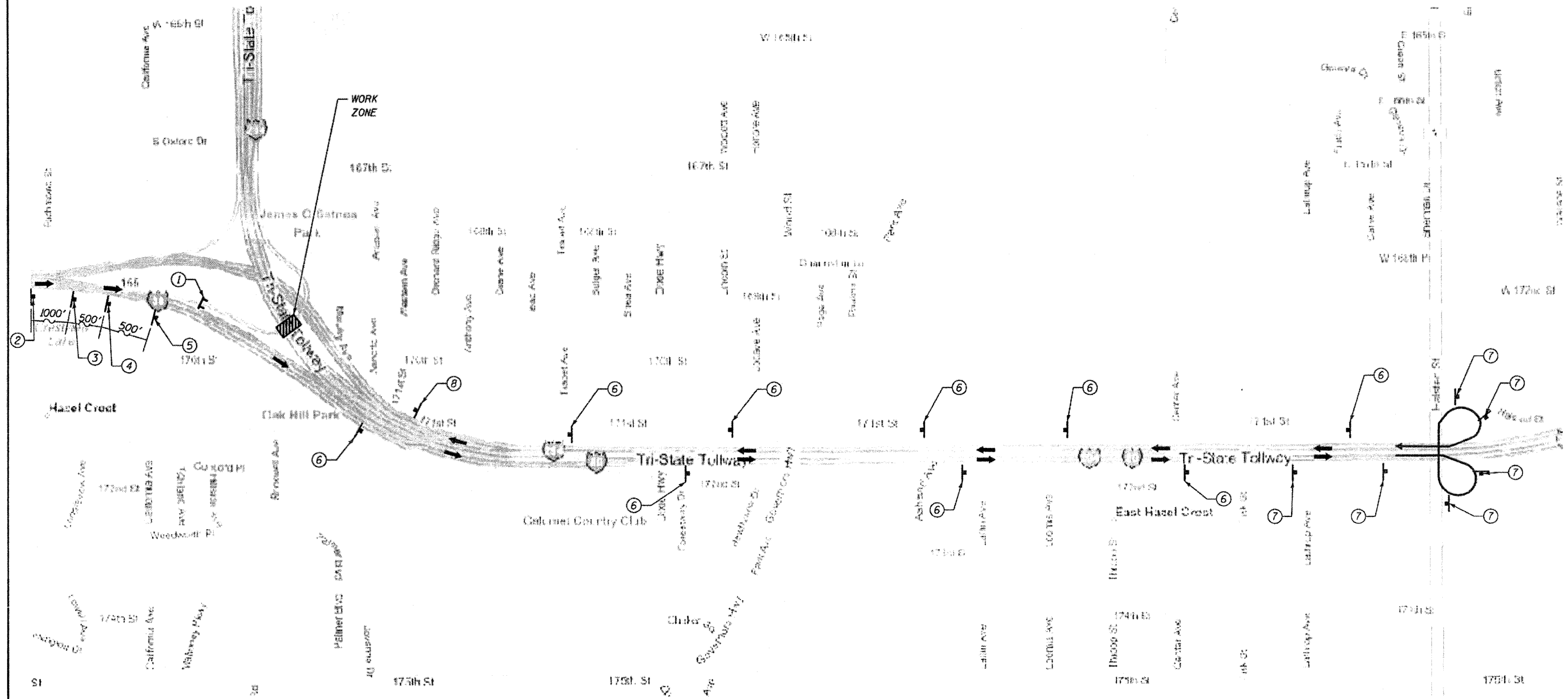
THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF TRAFFIC CONTROL PHASING WITH THE I-57 RESURFACING CONTRACT.

THE LIMITS OF RAMP PAVEMENT MARKING WILL BE DETERMINED IN THE FIELD AS PART OF THE COORDINATION.

- STAGE 3 RAMP B**
1. INSTALL TRAFFIC CONTROL IN ACCORDANCE WITH STANDARD 701456 STAGE 2 RAMP B MAINTENANCE OF TRAFFIC.
 2. REMOVE EXISTING HMA SURFACE COURSE TO THE DEPTH SPECIFIED IN THE PLANS ON EASTBOUND INSIDE LANE OF I-57 RAMP.
 3. INSTALL NEW HMA BINDER AND SURFACE COURSE ON EAST SIDE OF I-57 RAMP.

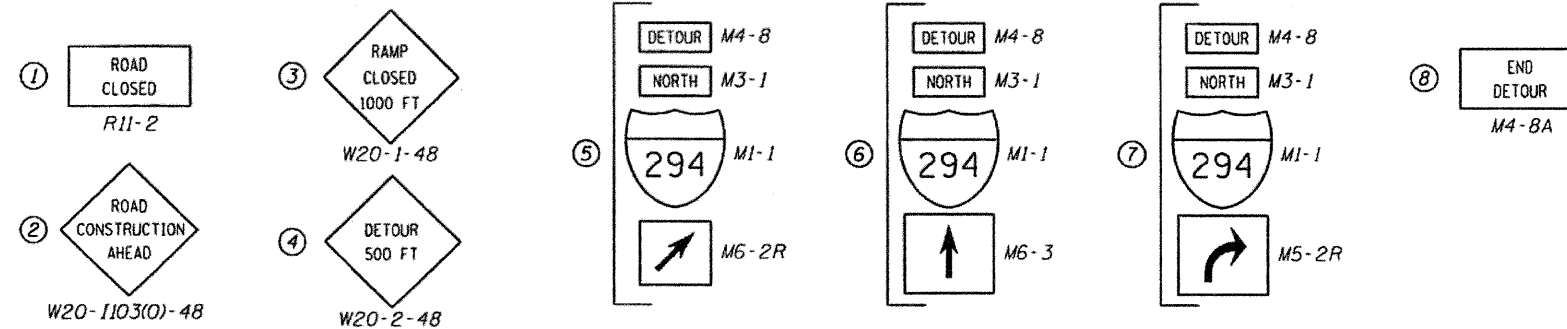


LONGO, INC. CONSULTING ENGINEERS 1560 WALL ST. SUITE 222 NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100	USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION STAGING PLAN - STAGE 3 - RAMP B I-80 RAMP (EASTBOUND TO NORTH BOUND I-57)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - ST	REVISED -					80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	33A.
	PLOT DATE = #DATE#	CHECKED - WHE	REVISED -					C-91-145-09		CONTRACT NO. 60F61		
	DATE - 07/08/2009	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									
					SCALE: 1"=50'	SHEET NO. 5 OF 5 SHEETS	STA. 220+00 TO STA. 235+00					



LEGEND

1 - TYPE III BARRICADE WITH
TWO FLASHING LIGHTS



 CONSULTING ENGINEERS 1560 WALL ST., SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: 630.301.577-9100	USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN I-80 RAMP (EASTBOUND TO NORTH BOUND I-294)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - ST	REVISED -					80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	33B.
	PLOT DATE = #DATE#	CHECKED - WHE	REVISED -		DATE - 07/08/2009	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	C-91-145-09 CONTRACT NO. 60F61		

PLAN	SURVEYED	DATE
	BY	
NOTE BOOK	PLOTTED	CHECKED
	NO.	NO.
NO.	NO.	NO.
	NO.	NO.

PRC FILE	SURVEYED	DATE
	BY	
NOTE BOOK	PLOTTED	CHECKED
	NO.	NO.
NO.	NO.	NO.
	NO.	NO.

BEGIN SHOULDER IMPROVEMENTS
STA. 9+65.51 (RAMP B)
STA. 223+34.75, 31.5' L.
(I-80 EB)

PROP. CURVE RTEPI
PI STA. = 13+97.39
Δ = 60° 51' 16" (LT)
D = 6° 45' 56"
R = 846.86'
T = 497.39'
L = 899.46'
E = 135.26'
P.C. STA. = 9+00.00
P.T. STA. = 17+99.46

PROP HMA SURF CSE REMOVAL, 3 3/4"
PROP HMA SURF CSE, MIX "D", N70, (1 1/2")
PROP HMA BINDER CSE, 1L-19.0, N70 (2 1/4")
(I-80 MAINLINE OUTSIDE SHOULDERS AND RAMP SHOULDERS)

EXISTING RAMP B

REMOVE AND RE-ERECT
EXISTING SIGN
STA. 12+64
OFF 13.52' RT

REMOVE AND RE-ERECT
EXISTING SIGN
STA. 14+29
OFF 15.92' RT

END SHOULDER IMPROVEMENTS
STA. 17+67.43
(RAMP B)

PROP HMA SURF CSE REMOVAL, 4"
PROP POLYMERIZED HMA SURF CSE, MIX "F", N90, (1 3/4")
PROP POLYMERIZED BINDER CSE, 1L-19.0, N90 (2 1/4")
(RAMPS)

REMOVE AND RE-ERECT
EXISTING SIGN
STA. 11+64
OFF 14.96' RT

REMOVE AND RE-ERECT
EXISTING SIGN
STA. 13+55
OFF 15.41' RT

PROP. PAVEMENT MARKING REMOVAL
PROP. PREFORMED PLASTIC PAVEMENT MARKING, TYPE B LINE - 5"
SKIP DASH - WHITE (10' DASH - 30' SKIP)

PROP. THERMOPLASTIC PAVEMENT MARKING LINE - 12"
DIAGONALS - (SOLID WHITE - RT); (SOLID YELLOW - LT) (TYP.)

REMOVE AND RE-ERECT EXISTING SIGN
STA. 15+92, OFF 17.48' RT

PROP. PAVEMENT MARKING REMOVAL
PROP. THERMOPLASTIC PAVEMENT MARKING LINE - 4"
(SOLID YELLOW - LT) (TYP.)
PROP. THERMOPLASTIC PAVEMENT MARKING LINE - 8"
(SOLID WHITE - RT) (TYP.)

PROP. BIT. CONC. SHOULDER REMOVAL
PROP. HMA SHOULDERS, 8"
PROP. SUB-BASE GRAN. MATL., TYPE B - 12"

PROP. SHOULDER RUMBLE STRIPS (INSIDE AND OUTSIDE SHOULDERS) (TYP.)

REMOVE AND RE-ERECT EXISTING SIGN
STA. 14+98, OFF 16.47' RT

SYMBOLS:



PROP. DITCH CHECK



PROP. SEEDING, CLASS 2A & EROSION CONTROL BLANKET



PROP. PERIMETER EROSION BARRIER



PROP. DITCH



EXIST. DITCH

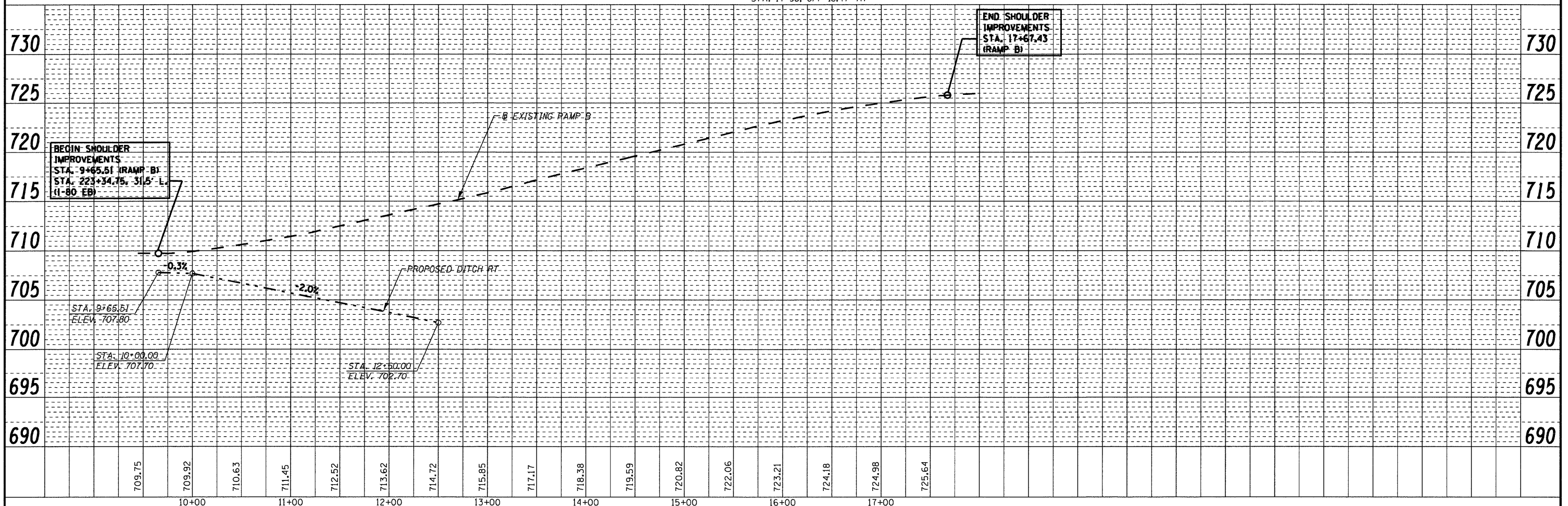
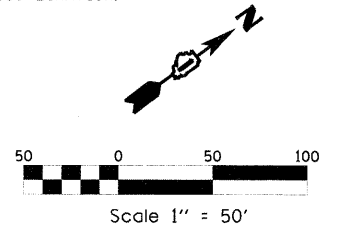


BUTT JOINT

NOTE:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF TRAFFIC CONTROL PHASING WITH THE I-57 RESURFACING CONTRACT.

THE LIMITS OF RAMP PAVEMENT MARKING WILL BE DETERMINED IN THE FIELD AS PART OF THE COORDINATION.



FILE NAME =	USER NAME = *USER*	DESIGNED - FML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN & PROFILE SHEET FAI-80 EASTBOUND TO FAI-57 NORTHBOUND RAMP B SCALE: 1"=50'H, 5'V SHEET NO. 1 OF 1 SHEET STA. 9+00.00 TO STA. 17+99.46	F.A.I. RTE. 80	SECTION 0709-1027K-1	COUNTY COOK	TOTAL SHEETS 80	SHEET NO. 34
FILEL		DRAWN - FML	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		CHECKED - PBL	REVISED -							
		DATE - 07/08/2009	REVISED -							

LIGHTING PLAN/ TABLE OF CONTENTS

- L1. LIGHTING DETAILS, NOTES AND LEGEND
- L2. EXISTING/PROPOSED LIGHTING PLAN
- L3. ALUMINUM LIGHT POLE
- L4A. LIGHT POLE FOUNDATION
- L4B. LUMINAIRE SAFETY CABLE ASSEMBLY
- L4C. MISC. ELECTRICAL DETAILS, SHEET A

LEGEND

- EXISTING LIGHT POLE & FOUNDATION
- REL RELOCATED EXISTING LIGHTING UNIT
- UTILITY POWER POLE EXISTING
- GROUND ROD 5/8 INCH DIAMETER X 10 FEET
- PROPOSED 400W HPS TYPE MCIII ROADWAY LUMINAIRE ON BLACK CABLE
- PROPOSED 400W HPS TYPE MCIII ROADWAY LUMINAIRE ON RED CABLE
- REL RELOCATED EXISTING LIGHTING UNIT ON RED CABLE
- UNIT DUCT. SEE PLAN SHEET FOR SIZES.
- LT** LEFT OF CENTER-LINE STATIONING. (VIEWED IN THE DIRECTION OF INCREASE STATION NUMBERS.)
- RT** RIGHT OF CENTER-LINE STATIONING. (VIEWED IN THE DIRECTION OF INCREASE STATION NUMBERS.)
- MH** MOUNTING HEIGHT
- MA** MAST ARM
- ROW** ROW-OF-WAY

GENERAL NOTES / LIGHTING PLAN

- 1. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE STATE AND LOCAL CODES.
- 2. THE CONTRACTOR IS TO VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE BEGINNING ANY TRENCHING OR AUGERING OPERATIONS.
- 3. PRIOR TO INSTALLING LIGHT STANDARDS NEAR ANY EXISTING OVERHEAD ELECTRICAL FACILITIES, THE CONTRACTOR IS TO NOTIFY COMED OF THE WORK IN PROGRESS, AND OBTAIN COMED'S APPROVAL OF LOCATION.
- 4. FOR LOCATION OF ANY UNDERGROUND ELECTRICAL FACILITIES, THE CONTRACTOR IS TO NOTIFY COMED OF THE WORK IN PROGRESS, AND OBTAIN COMED'S APPROVAL OF LOCATION.
- 5. UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (EPR-TYPE RHW), 1 1/2" DIA. POLYETHYLENE.

CIRCUIT	RED (AMPS)	BLACK (AMPS)	LOAD (VA)
C	16.0	-	3840
D	-	16.0	3840

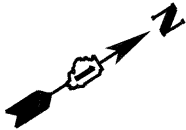
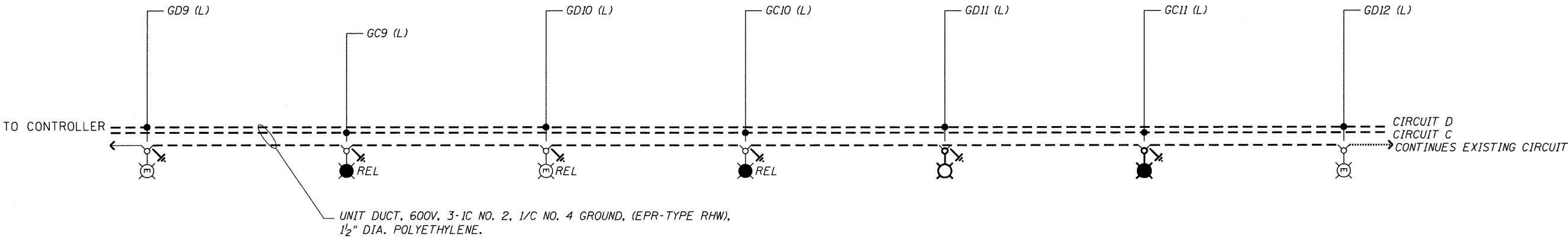
LUMINAIRE PERFORMANCE TABLE

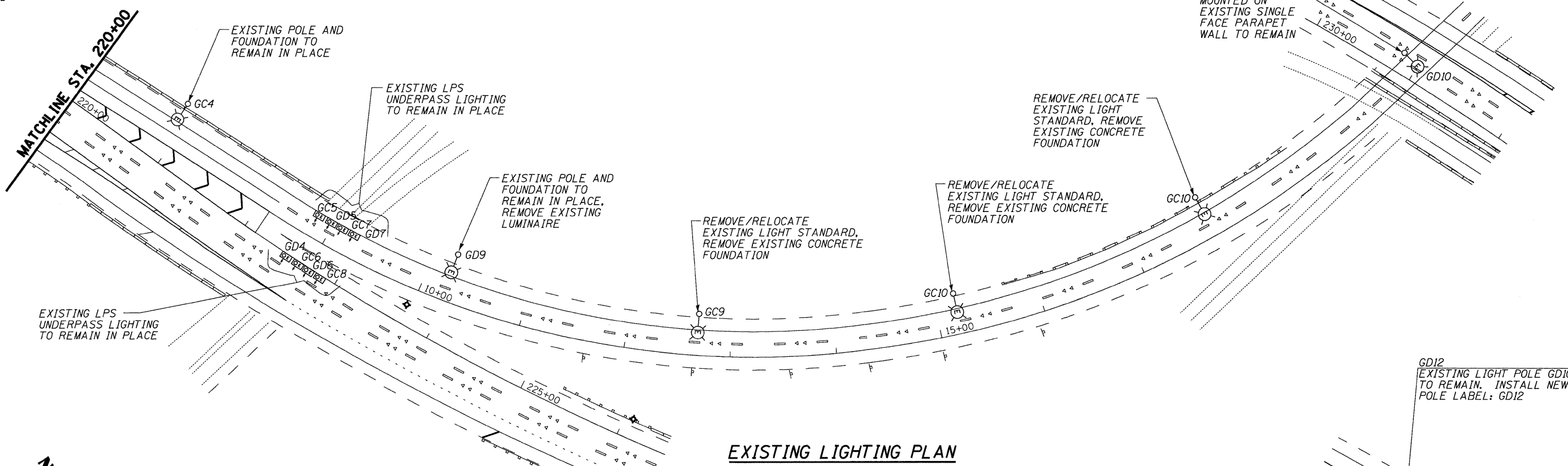
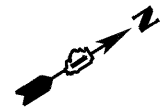
ILLUMINANCE		LUMINANCE			
E _{AVG}	E _{AVG} /E _{MIN}	L _{AVG}	L _{AVG} /L _{MIN}	L _{MAX} /L _{MIN}	L _V /L _{AVG}
1.2 fc	3.0	0.8	3.0	5.0	0.3

NOTES /ONE LINE DIAGRAM

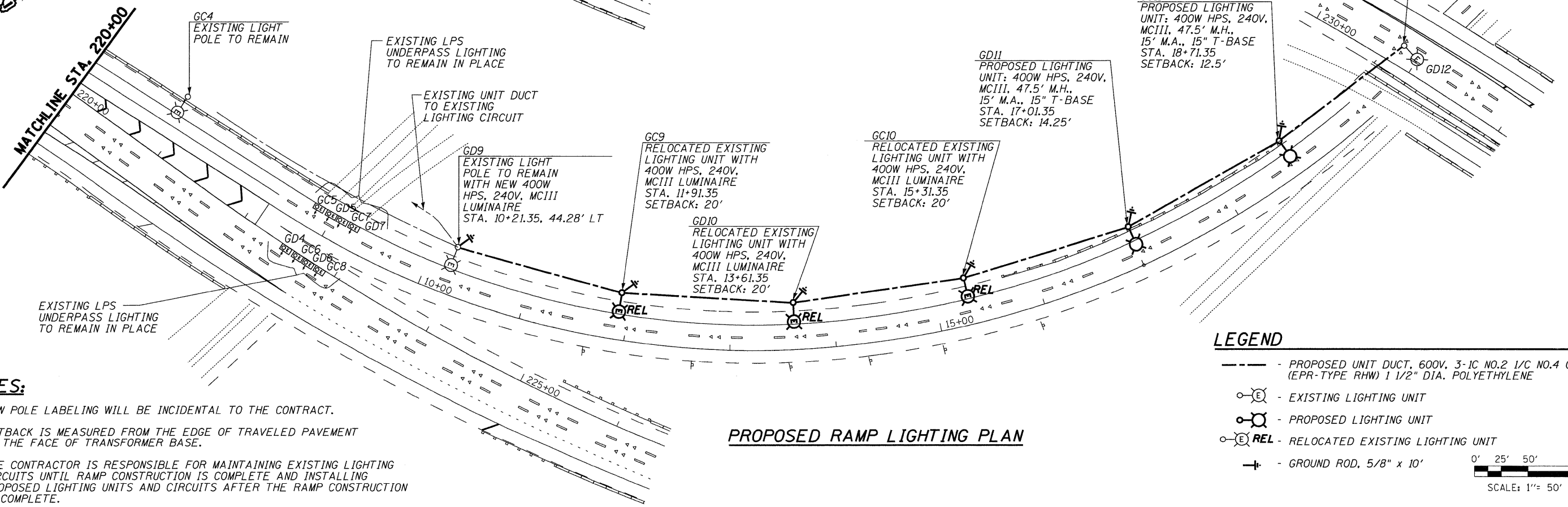
- 1. LINE VOLTAGE IS 240/480V SINGLE PHASE THREE WIRE.
- 2. ALL POLE FIXTURES ARE 400W, 240V, HIGH PRESSURE SODIUM.

ONE LINE DIAGRAM





EXISTING LIGHTING PLAN



PROPOSED RAMP LIGHTING PLAN

NOTES:

1. NEW POLE LABELING WILL BE INCIDENTAL TO THE CONTRACT.
2. SETBACK IS MEASURED FROM THE EDGE OF TRAVELED PAVEMENT TO THE FACE OF TRANSFORMER BASE.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING LIGHTING CIRCUITS UNTIL RAMP CONSTRUCTION IS COMPLETE AND INSTALLING PROPOSED LIGHTING UNITS AND CIRCUITS AFTER THE RAMP CONSTRUCTION IS COMPLETE.

LEGEND

- PROPOSED UNIT DUCT, 600V, 3-1C NO.2 1/C NO.4 GROUND, (EPR-TYPE RHW) 1 1/2" DIA. POLYETHYLENE
 - E- EXISTING LIGHTING UNIT
 - P- PROPOSED LIGHTING UNIT
 - REL- RELOCATED EXISTING LIGHTING UNIT
 - ⊕- GROUND ROD, 5/8" x 10'
- 0' 25' 50' 100'
SCALE: 1"= 50'

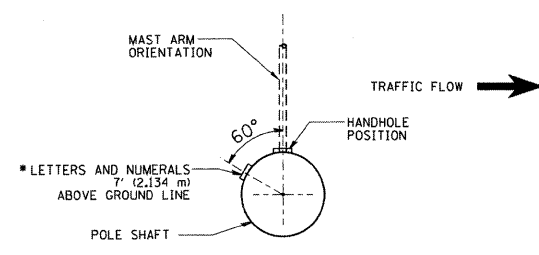
LOCO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100

USER NAME = #USER#	DESIGNED - MJY & ST	REVISED -
PLOT SCALE = #SCALE#	DRAWN - ST	REVISED -
PLOT DATE = #DATE#	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

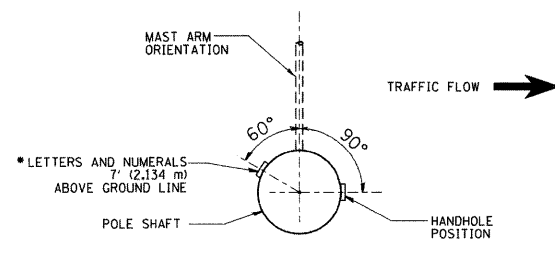
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/PROPOSED LIGHTING PLAN		
I-80 RAMP (EASTBOUND TO NORTH BOUND I-57)		
SCALE: 1"=50'	SHEET NO. 1 OF 4 SHEETS	STA. XX TO STA. XX

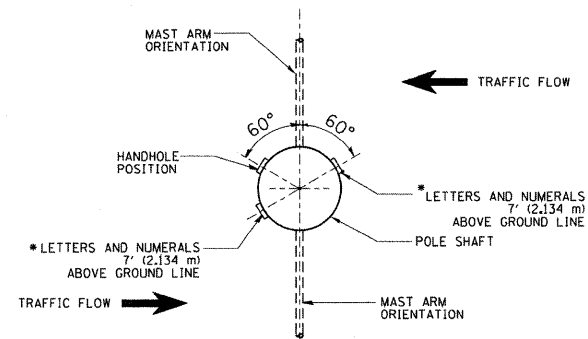
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	36
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



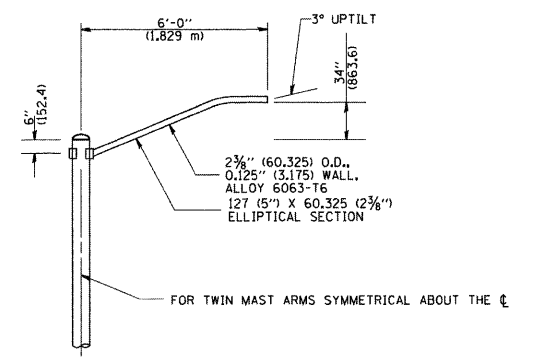
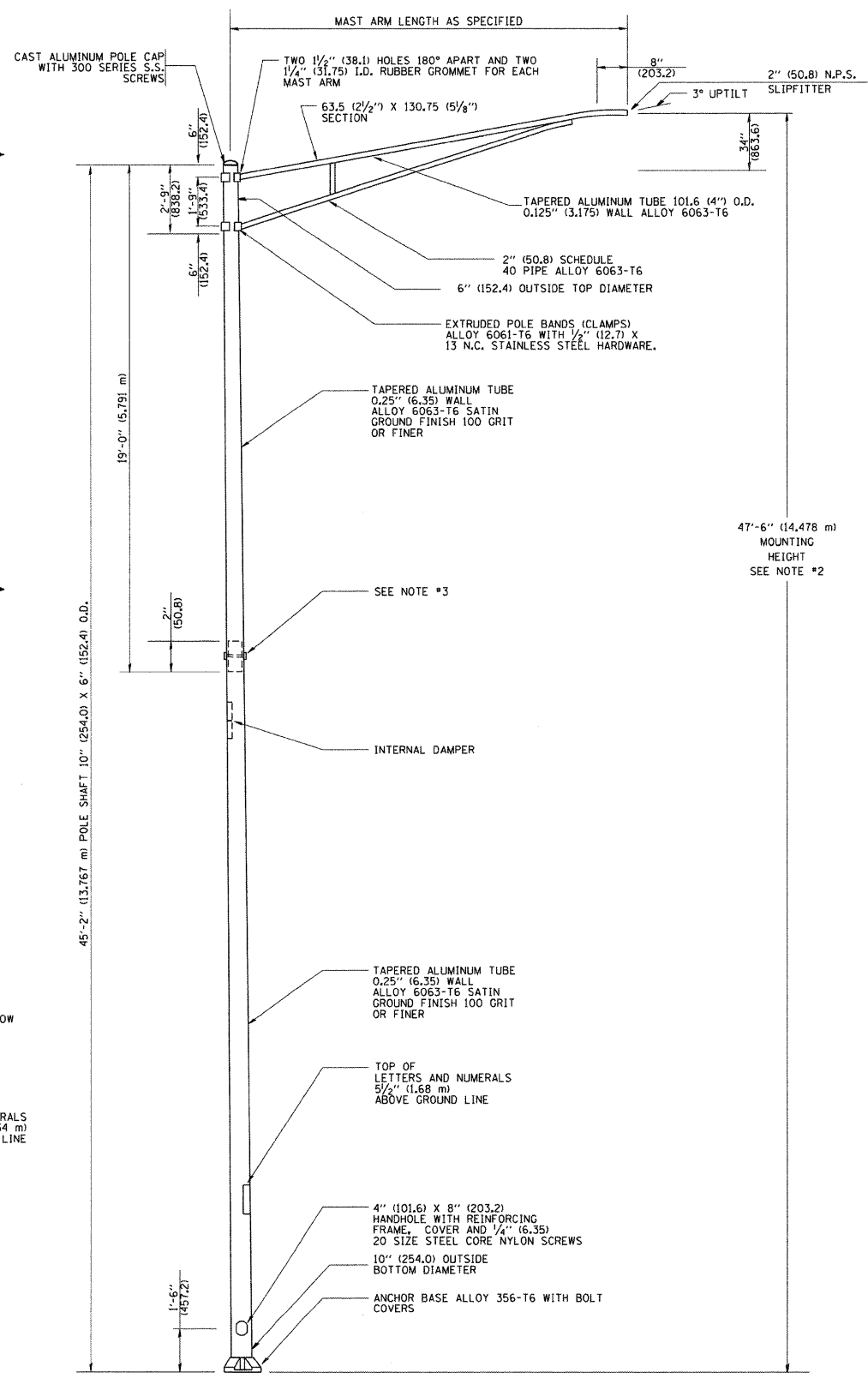
POSITION OF HANDHOLE AND
POLE NUMBER FOR SINGLE
MAST ARM POLES MOUNTED
ON BRIDGE PARAPET OR
BARRIER WALL



POSITION OF HANDHOLE AND
POLE NUMBER FOR SINGLE
MAST ARM POLES

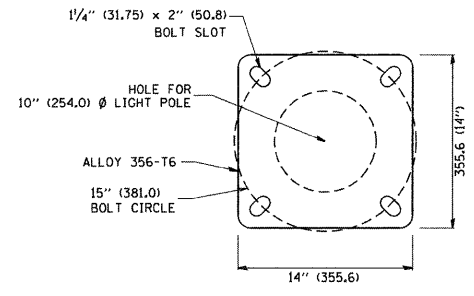


POSITION OF HANDHOLE AND
POLE NUMBER FOR TWIN
MAST ARM POLES

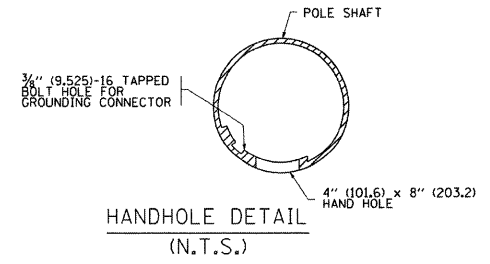


6' (1.8 m) SINGLE MEMBER MAST ARM
(N.T.S.)

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



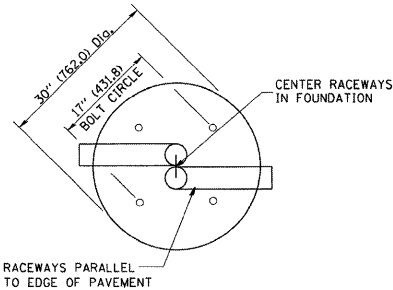
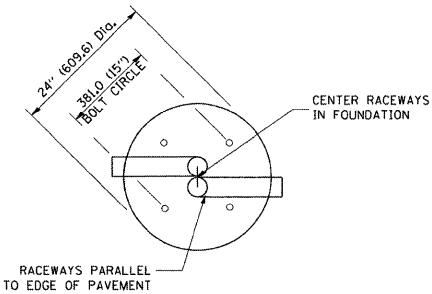
LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

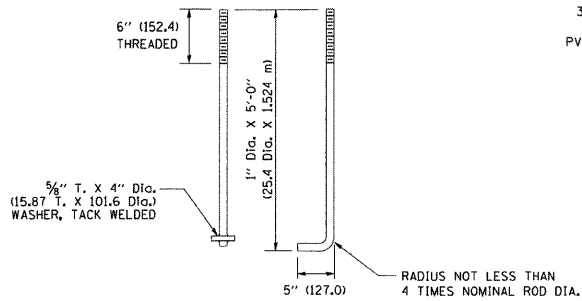
LIGHT POLE FOUNDATION DEPTH TABLE
 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY QU = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY QU = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY QU = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

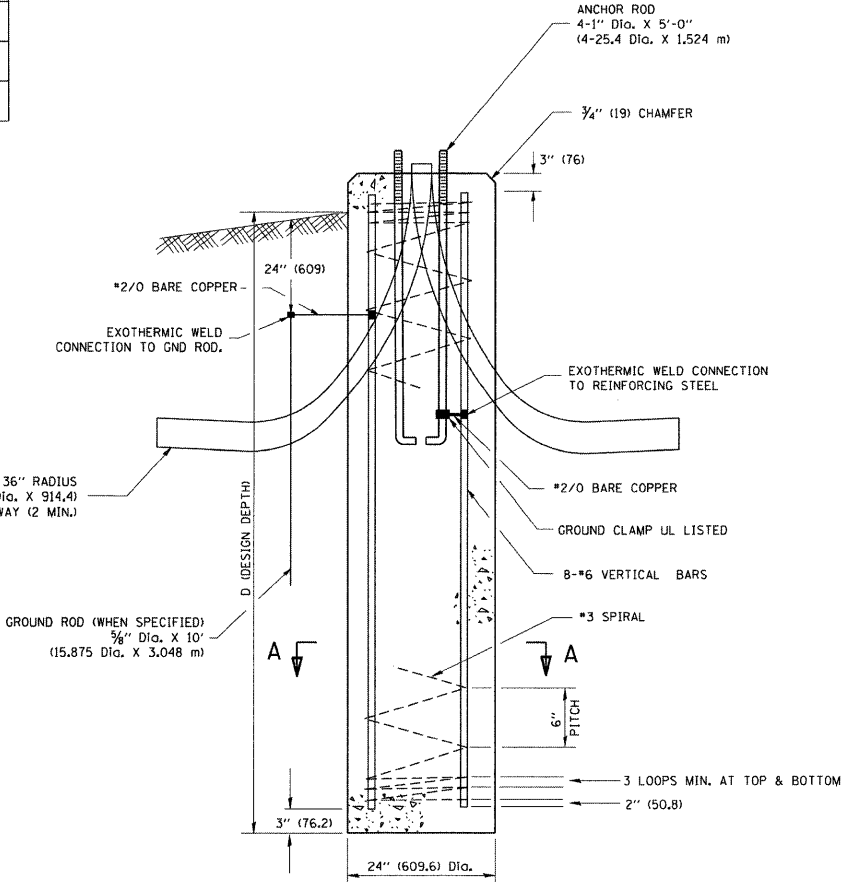


TOP VIEW

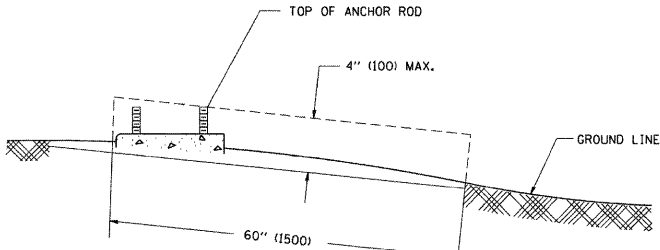
TOP VIEW



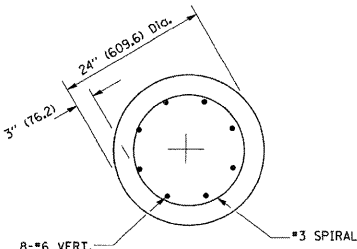
ANCHOR ROD DETAIL



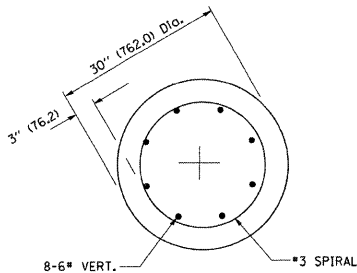
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



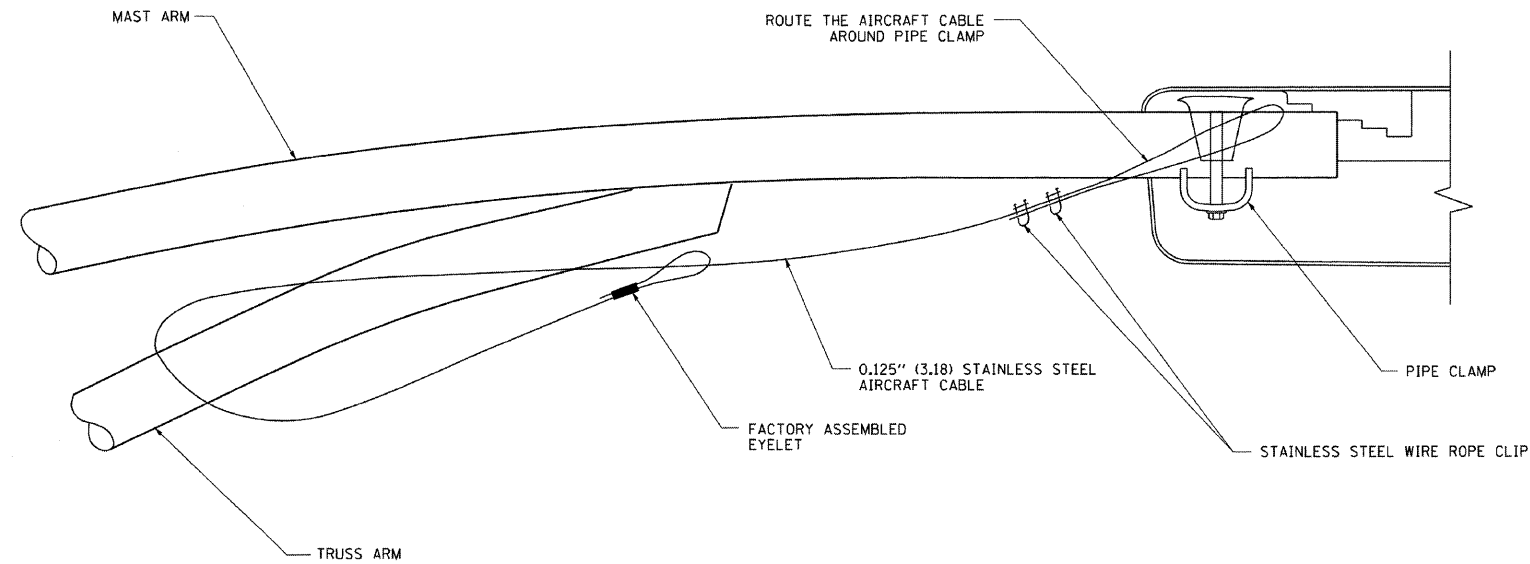
SECTION A-A



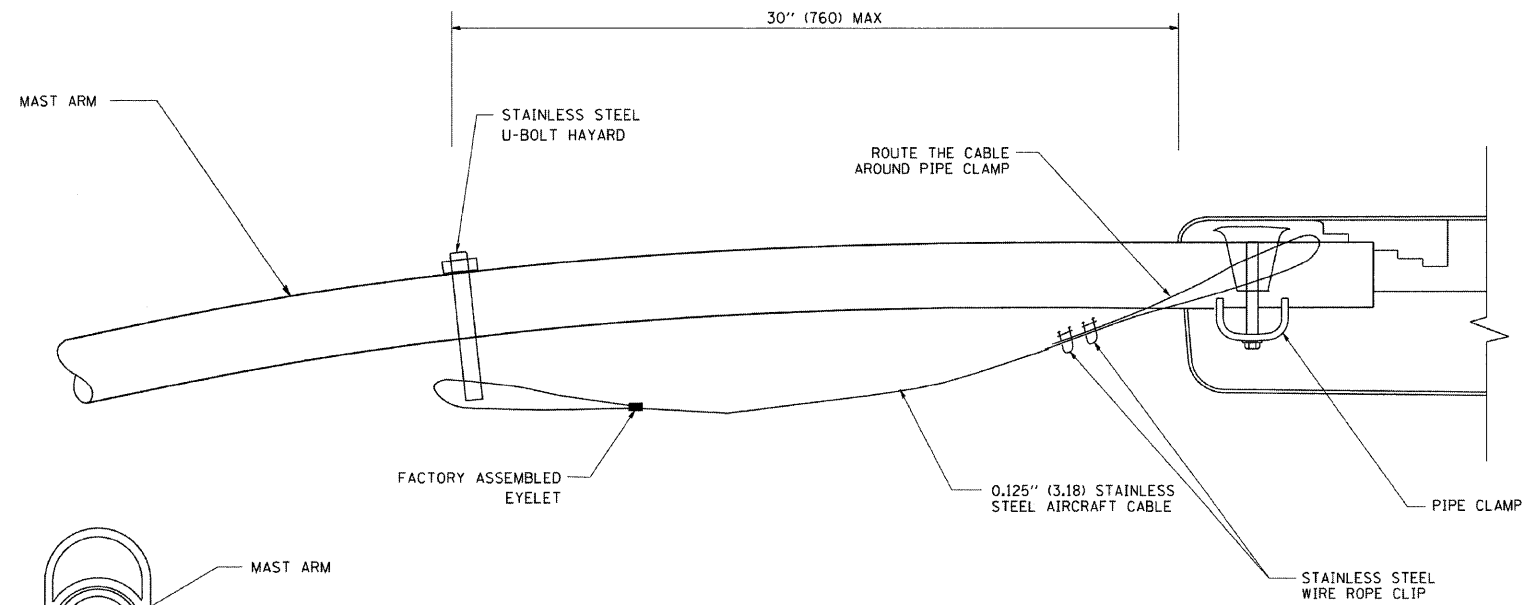
SECTION A-A

NOTES

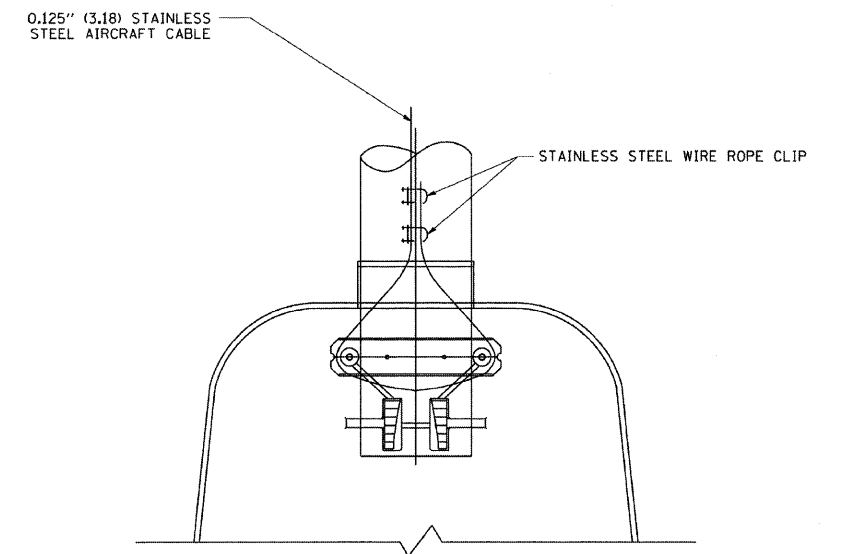
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMIC MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



SIDE VIEW (TRUSS ARM)
N.T.S.



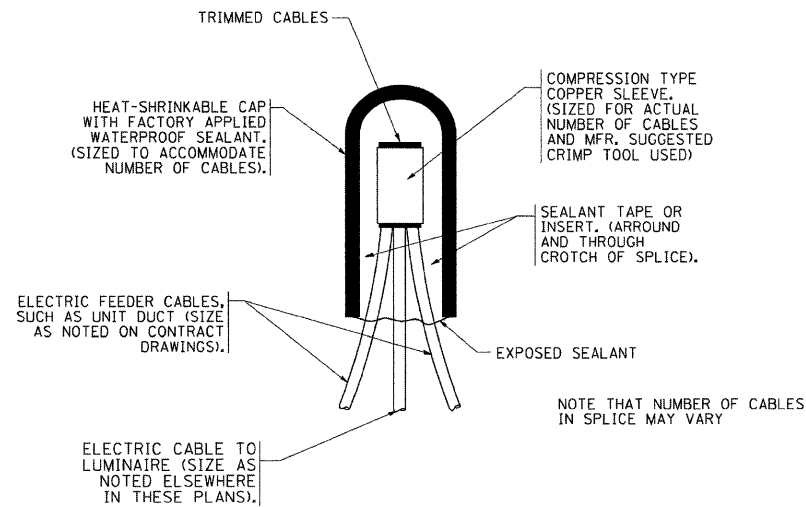
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



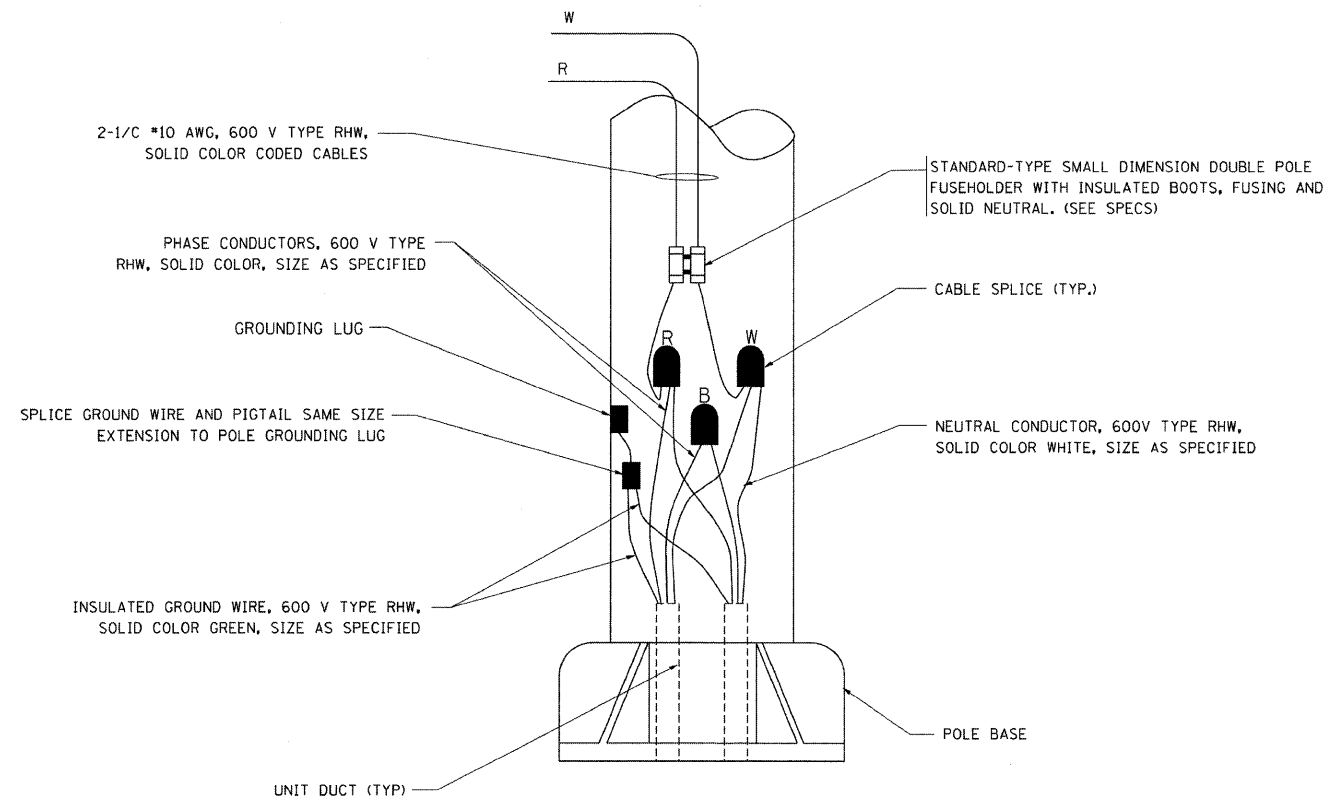
BOTTOM VIEW
N.T.S.

NOTES:

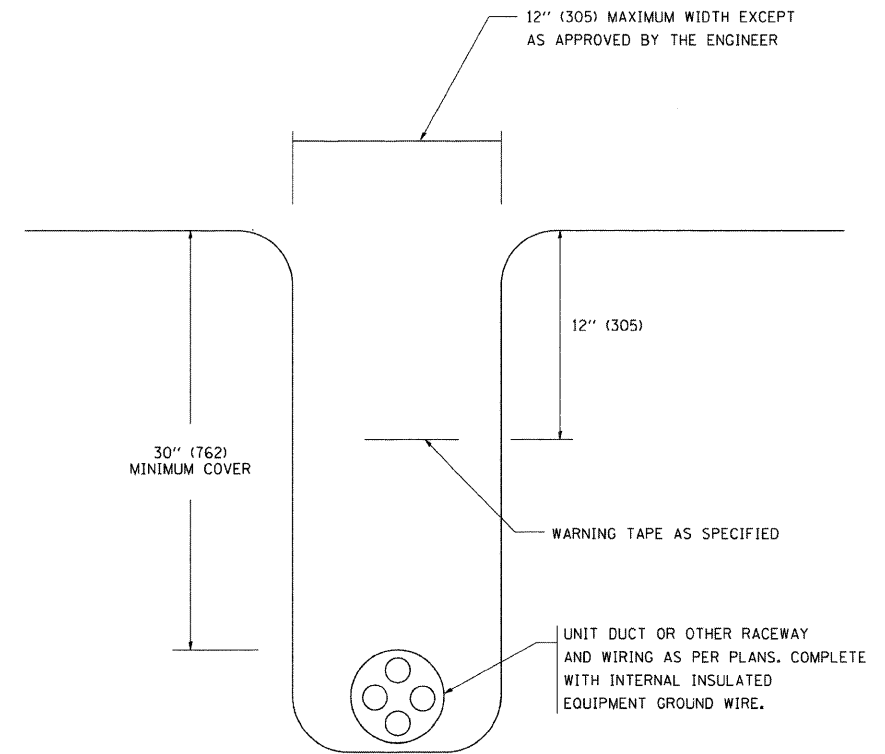
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125\" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

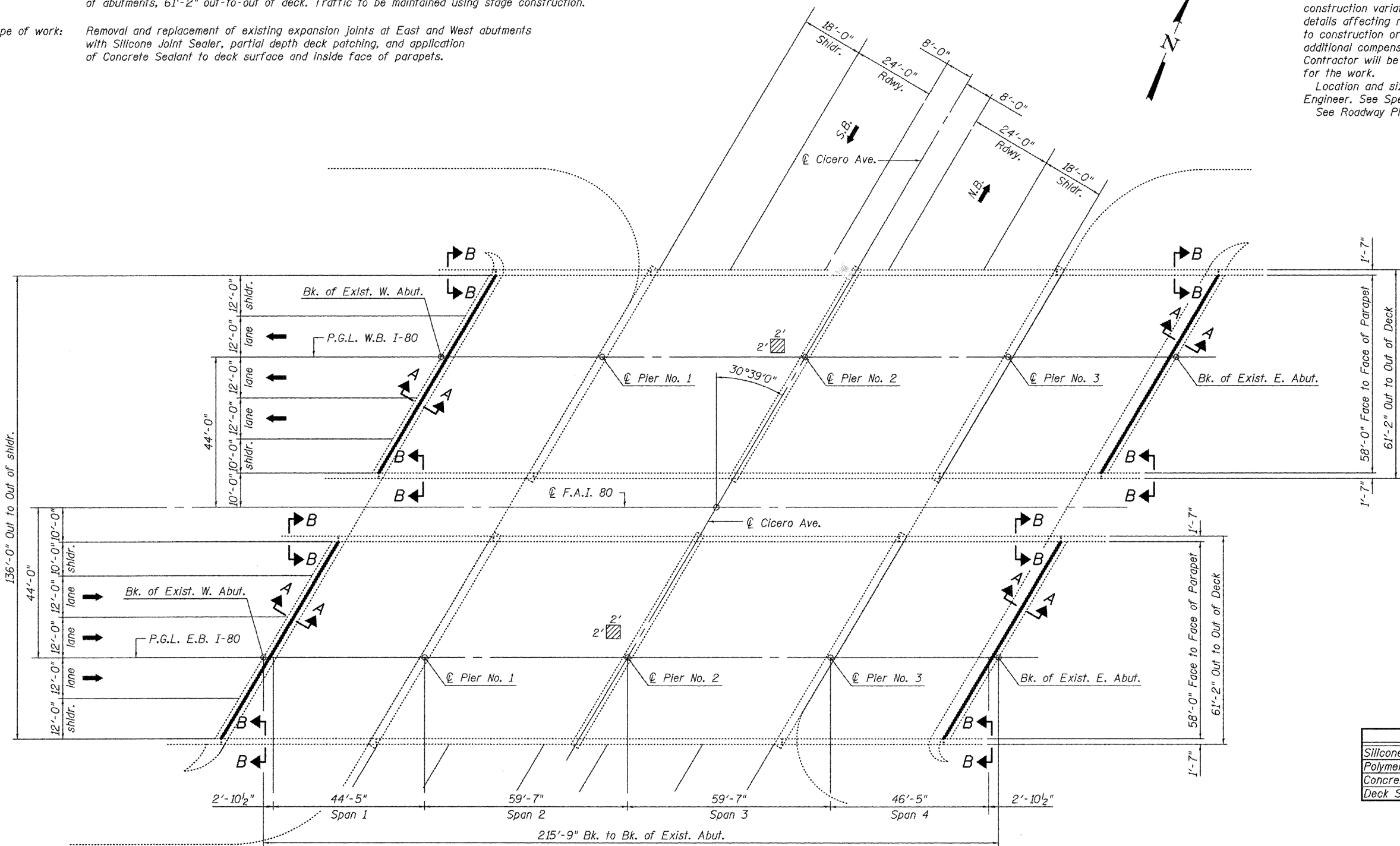
GENERAL NOTES

Existing Structure: FAI-80 built under section 1516-804HB & 1516-804 in 1964. Redecked and widened in 1995 under section (1516-804HB)R, Structure No. 016-0074 (EB) & 016-0075 (WB). Structure consists of a reinforced concrete deck supported by continuous rolled steel beams on pile bent abutments and multiple column piers. 215'-9" back-to-back of abutments, 61'-2" out-to-out of deck. Traffic to be maintained using stage construction.

Scope of work: Removal and replacement of existing expansion joints at East and West abutments with Silicone Joint Sealer, partial depth deck patching, and application of Concrete Sealant to deck surface and inside face of parapets.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

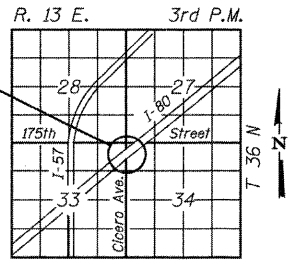
Location and size of the deck repair shall be determined in the field by the Engineer. See Special provisions.
See Roadway Plans for traffic control details.



PLAN

- Indicates joint removal and replacement at West and East Abutments.
- ▨ Deck Slab Repair (Partial)

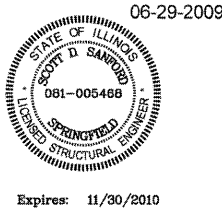
STRUCTURE LOCATION



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	285
Polymer Concrete	Cu. Ft.	21.5
Concrete Sealer	Sq. Ft.	28,910
Deck Slab Repair (Partial)	Sq. Yd.	1.0



Signature

BRIDGE REPAIR
FAI-80 OVER CICERO AVENUE

*Section (95-5-1, ETC, 1819-824)RS-1

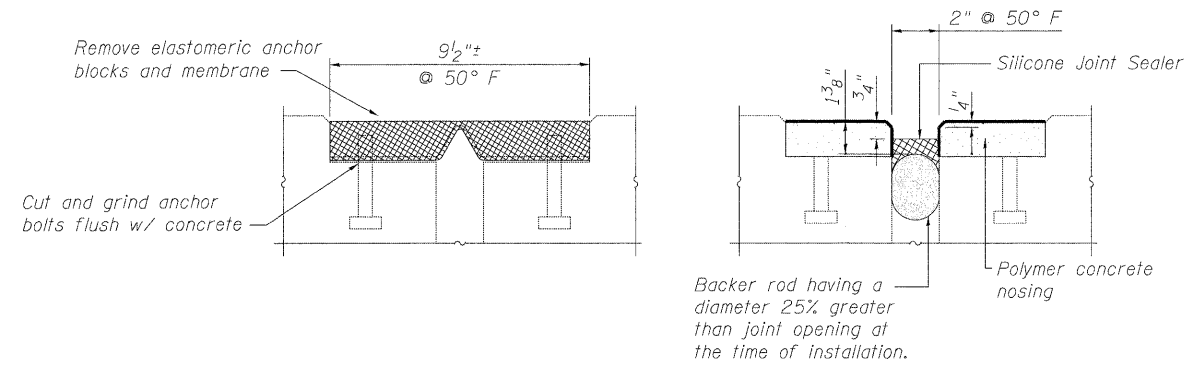
SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	80	*	COOK	80	39
2 SHEETS	SN 016-0074 & 0075		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

D-91-145-09

DESIGNED - CMV
CHECKED - SDS
DRAWN - DLH
CHECKED - CMV

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



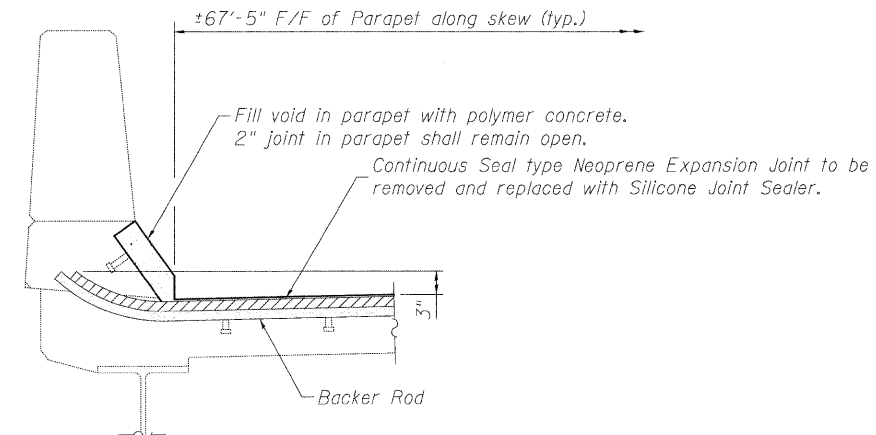
NEOPRENE EXPANSION JOINT REMOVAL

SILICONE JOINT SEALER REPLACEMENT

SECTION A-A

Note:

The cost of removing the existing Neoprene Expansion Joint and grinding the existing anchor bolts shall be included in the cost of Silicone Joint Sealer, 2".



SECTION B-B

JOINT REPLACEMENT DETAILS
FAI-80 OVER CICERO AVENUE

DESIGNED - CMV
CHECKED - SDS
DRAWN - DLH
CHECKED - CMV

	7018 KINGSMILL CT.,
	SPRINGFIELD, IL
	(217) 483-9457
	DESIGN FIRM #184001036

*Section (95-5-1, ETC, 1819-824)RS-1

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2 SHEETS	80	*	COOK	80	40
SN 016-0074 & 0075			CONTRACT NO. 60F61		
FED. ROAD DIST. NO. _			ILLINOIS FED. AID PROJECT		

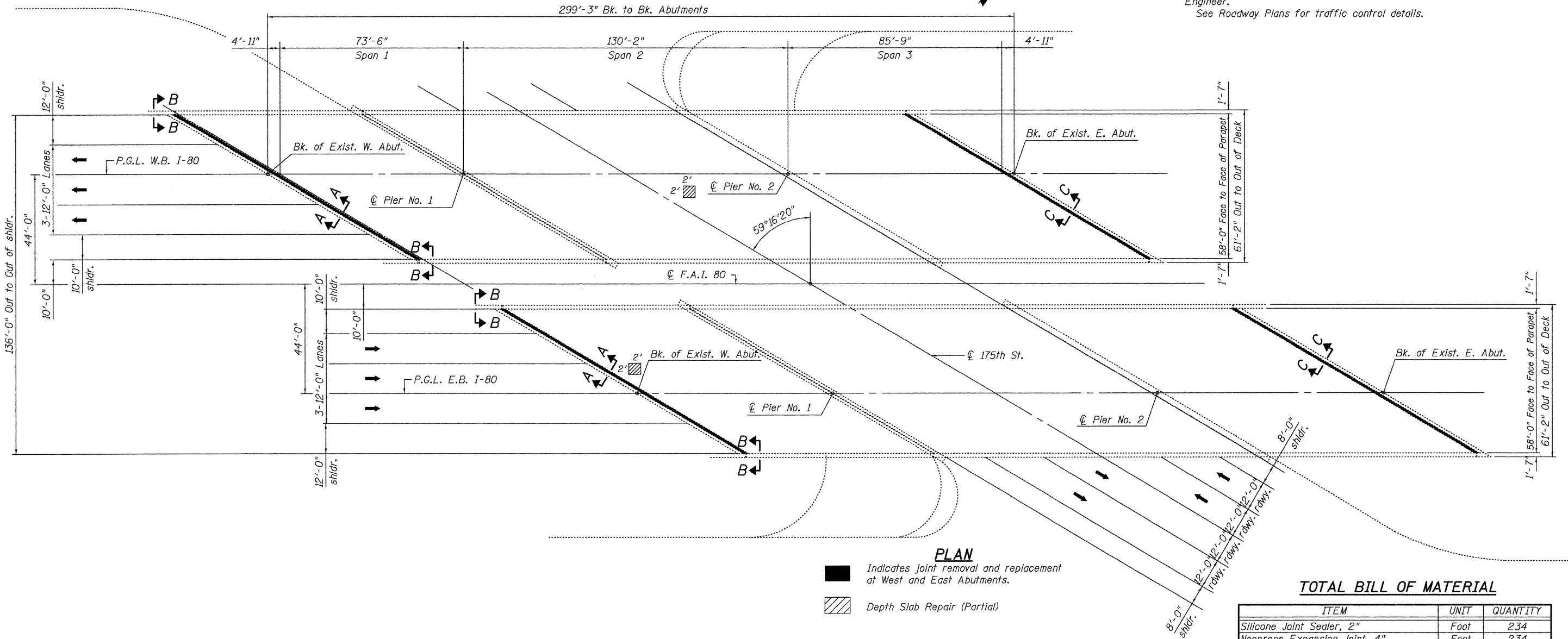
Existing Structure: Sta. 1478+62.03, FAI-80 built under section 1516-805HB in 1964. Redecked and widened in 1995 under section (1516-805HB)R, Structure No. 016-0076 (EB) & 016-0077 (WB). Structure consists of a reinforced concrete deck supported by continuous welded plate girders on pile bent abutments and multiple column piers. 299'-3" back-to-back of abutments, 61'-2" out-to-out of deck. Traffic to be maintained using stage construction.

Scope of work: Removal and replacement of existing expansion joints at East abutment with Silicone Joint Sealer, Removal and replacement of existing expansion joints at West abutment with Neoprene Expansion Joint, partial depth deck patching, and application of Concrete Sealant to deck surface and inside face of parapets.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Location and size of the deck repair shall be determined in the field by the Engineer.
See Roadway Plans for traffic control details.



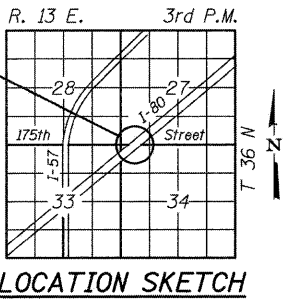
PLAN

- Indicates joint removal and replacement at West and East Abutments.
- Depth Slab Repair (Partial)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Silicone Joint Sealer, 2"	Foot	234
Neoprene Expansion Joint, 4"	Foot	234
Polymer Concrete	Cu. Ft.	19.5
Concrete Sealer	Sq. Ft.	40,100
Deck Slab Repair (Partial)	Sq. Yd.	1

STRUCTURE LOCATION



LOCATION SKETCH

BRIDGE REPAIR
FAI-80 OVER 175th STREET

*Section (95-5-1, ETC, 189-824)RS-1

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2 SHEETS	80	SN 016-0076 & 0077	COOK	80	41
CONTRACT NO. 60F61					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

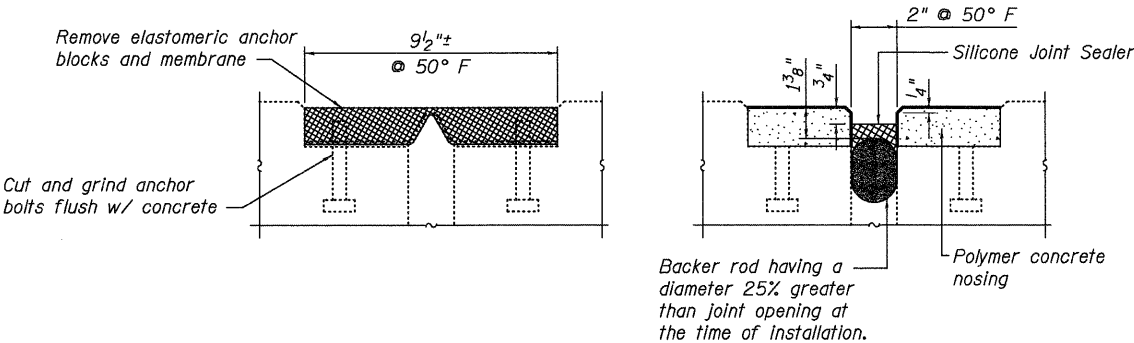
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

INSTALLATION NOTES

- 1 Install continuous seal in roadway, parapet, curb, and sidewalk.
- 2 Install anchor blocks as indicated.

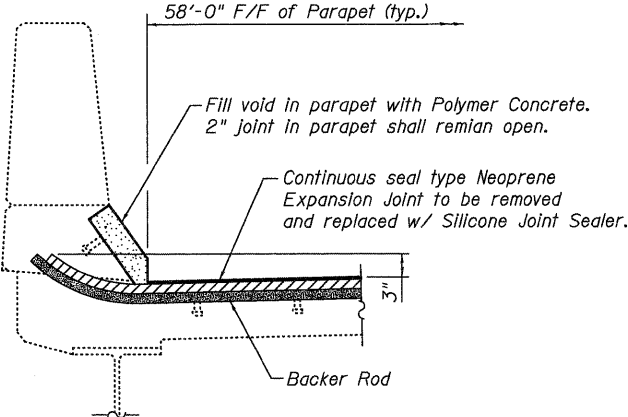


NEOPRENE EXPANSION JOINT REMOVAL

SILICONE JOINT SEALER REPLACEMENT

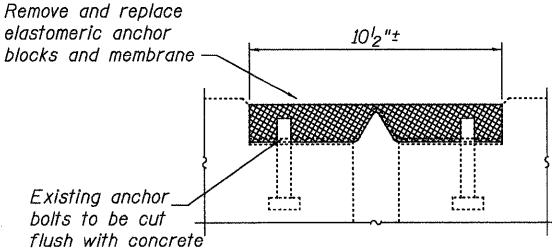
SECTION A-A

Note:
The cost of removing the existing Neoprene Expansion Joint and grinding the existing anchor bolts shall be included in the cost of Silicone Joint sealer, 2".



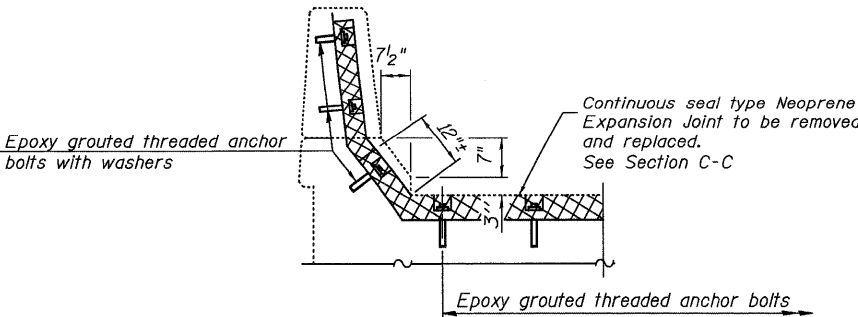
SECTION B-B

JOINT REPLACEMENT DETAILS - WEST ABUTMENT

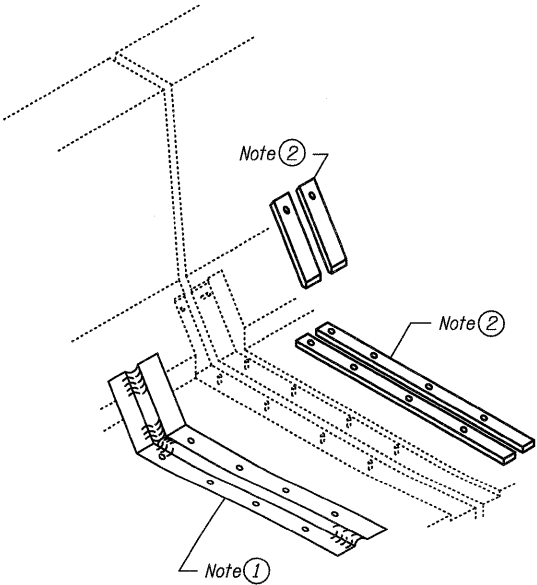


SECTION C-C

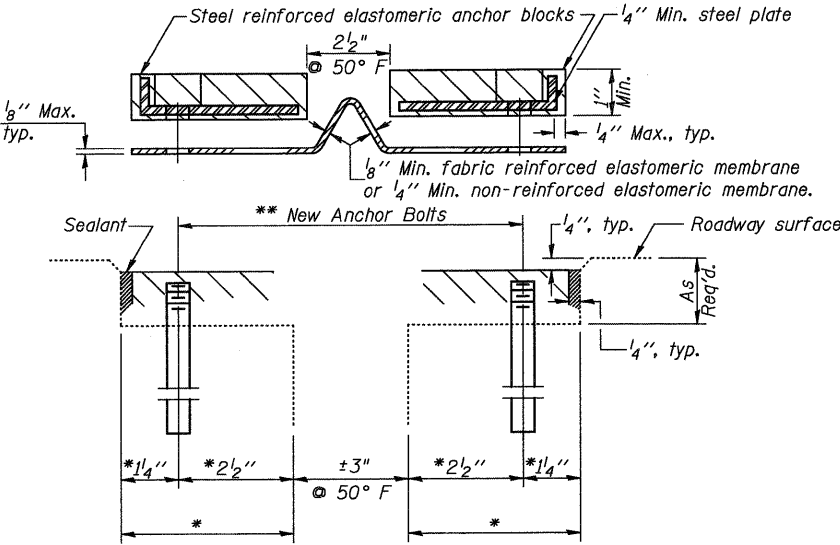
Note:
The cost of removing the existing Neoprene Expansion Joint shall be included in the cost of Neoprene Expansion Joint, 4".



SECTION AT PARAPET



AT PARAPET



CROSS SECTION

* Contractor shall verify joint dimensions prior to fabrication of elastomeric anchor blocks and membrane.

** New anchor bolts to be epoxy grouted in accordance with Article 584 of the Standard Specifications. Space anchors to miss existing anchor bolts. Cost included with Neoprene Expansion Joint, 4".

JOINT REPLACEMENT DETAILS
FAI-80 OVER 175th STREET

DESIGNED - CMV
CHECKED - SDS
DRAWN - DLH
CHECKED - CMV

WHKS & co.
ENGINEERING

7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

JOINT REPLACEMENT DETAILS - EAST ABUTMENT

*Section (95-5-1, ETC, 189-824)RS-1

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2 SHEETS	80	*	COOK	80	42
		SN 016-0076 & 0077			CONTRACT NO. 60F61
		FED. ROAD DIST. NO. _ ILLINOIS			FED. AID PROJECT

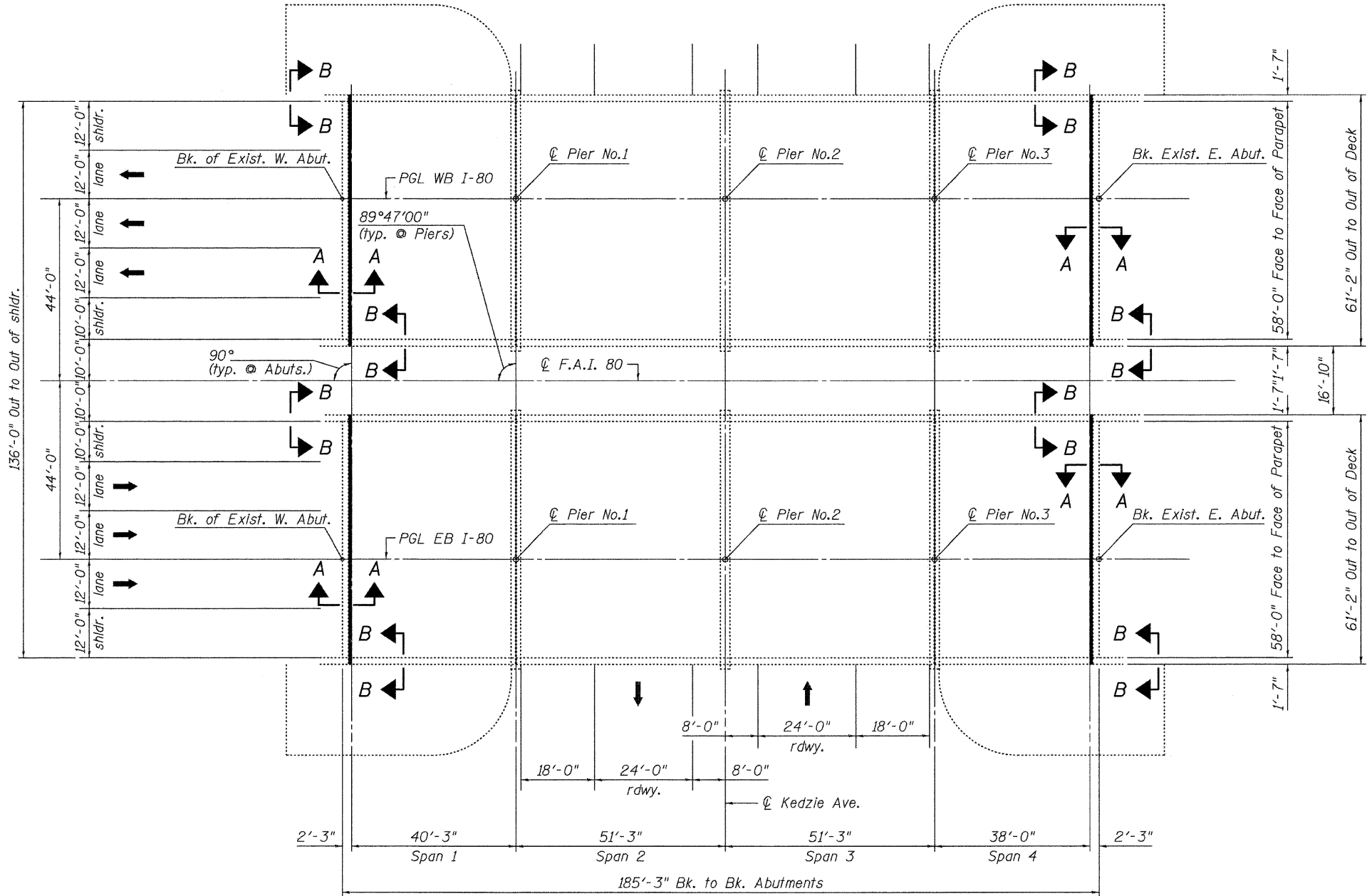
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: Sta. 1587+55.76 FAI-80 built under section 1718-807HB in 1964.
Redecked and widened in 1995 under section (1516-807HB)R, Structure No. 016-0078 (EB)
& 016-0079 (WB). Structure consists of a reinforced concrete deck supported by continuous
rolled steel beams on pile bent abutments and multiple column piers. 185'-3" back-to-back
of abutments, 61'-2" out-to-out of deck. Traffic to be maintained using stage construction.

Scope of work: Removal and replacement of existing expansion joints at East and West abutments with silicone
joint sealer, and application of Concrete Sealant to deck surface and inside face of parapets.

GENERAL NOTES

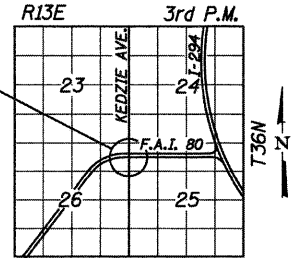
Plan dimensions and details relative to existing plans are subject to nominal
construction variations. The Contractor shall field verify existing dimensions and
details affecting new construction and make necessary approved adjustments prior
to construction or ordering of materials. Such variations shall not be cause for
additional compensation for a change in scope of the work, however, the
Contractor will be paid for the quantity actually furnished at the unit price bid
for the work.
See roadway plans for traffic control details.



PLAN

Indicates joint removal and replacement
at West and East Abutments.

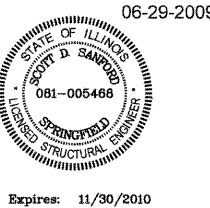
STRUCTURE LOCATION



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Silicone Joint Sealer, 3"	Foot	244
Concrete Sealer	Sq. Ft.	24,822



Signature

BRIDGE REPAIR
FAI-80 OVER KEDZIE AVENUE

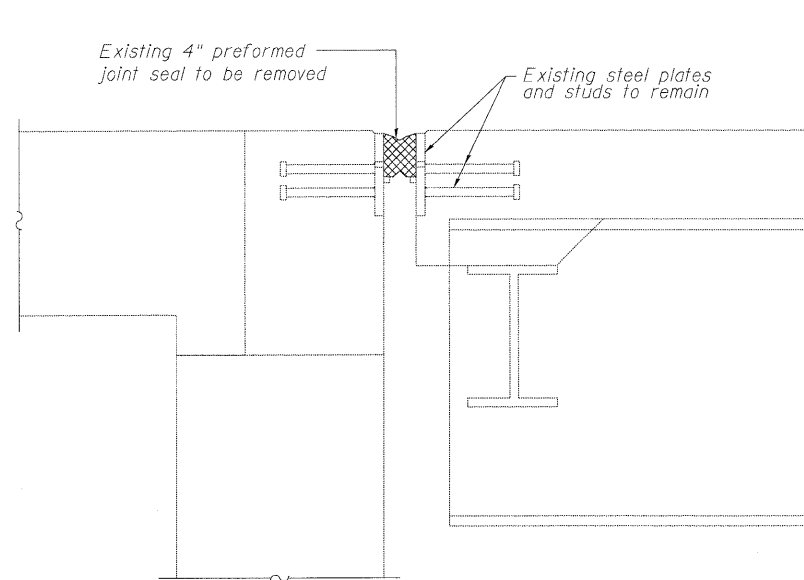
*Section (95-5-1, ETC, 189-824)RS-1

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	80	*	COOK	80	43
2 SHEETS	SN 016-0078 & 0079		CONTRACT NO. 60F61		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT		

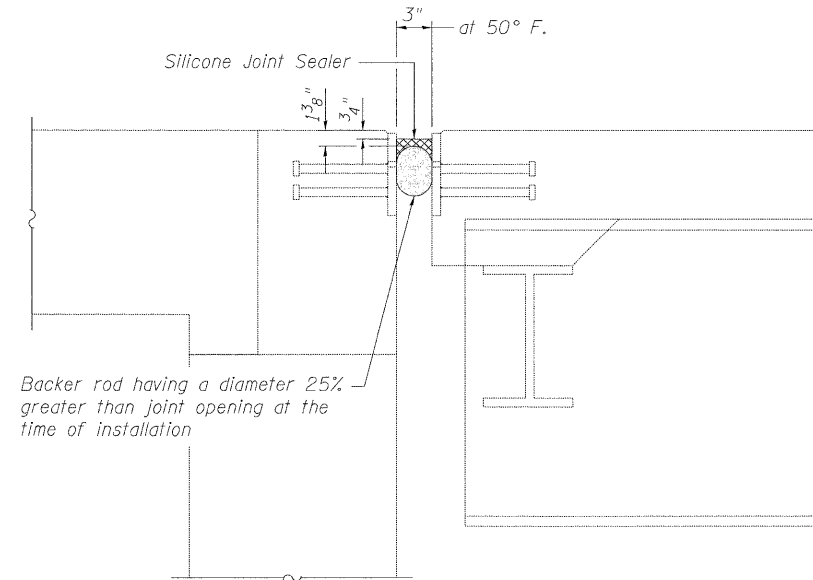
DESIGNED - CMV
CHECKED - SDS
DRAWN - DLH
CHECKED - CMV

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



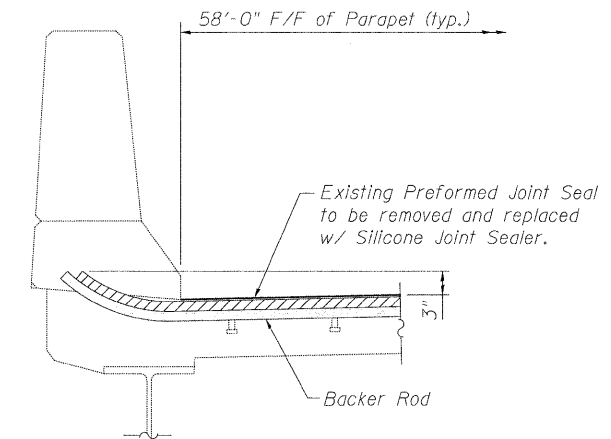
PREFORMED JOINT SEAL REMOVAL



SILICONE JOINT SEALER REPLACEMENT

SECTION A-A

Note:
The cost of removal of the existing 4" Preformed Joint Seal shall be included in the cost of Silicone Joint Sealer, 3".



SECTION B-B

JOINT REPLACEMENT DETAILS
FAI-80 OVER KEDZIE AVENUE

DESIGNED - CMV
CHECKED - SDS
DRAWN - DLH
CHECKED - CMV

	7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457
	DESIGN FIRM #184001036

*Section (95-5-1, ETC, 189-824)RS-1

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2 SHEETS	80	*	COOK	80	44
		SN 016-0078 & 0079	CONTRACT NO. 60F61		
		FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

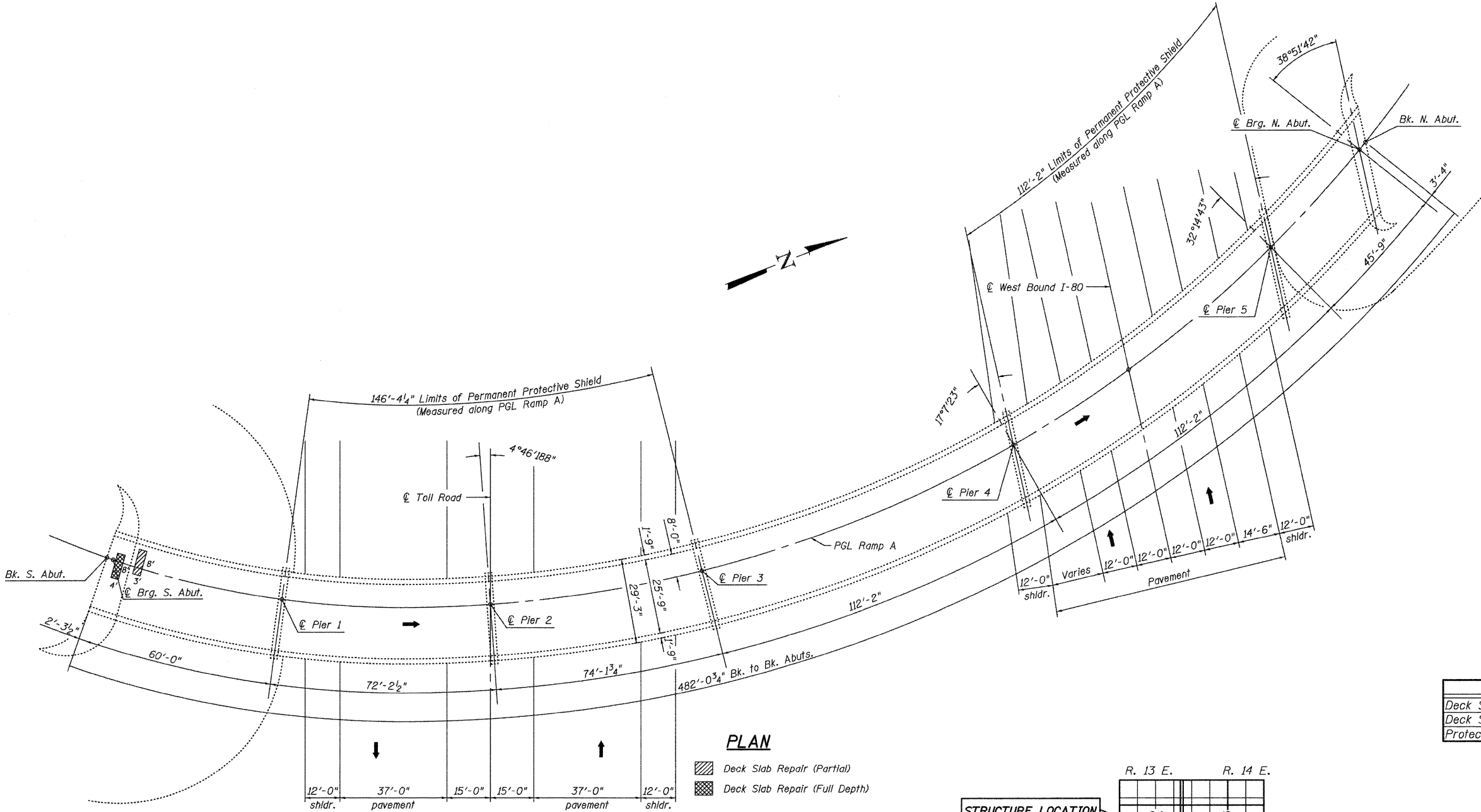
Existing Structure: Sta. 29+01.09 (At Tollway) FAI-80 built under section 1818-809HB in 1964.
Repaired and concrete overlay added in 1990 under section 1818-809HB-BR-1-DL.
Structure No. 016-2132. Structure consists of a reinforced concrete deck supported by welded steel plate girders on pile bent abutments and pile supported piers. 482'-0³/₄" back-to-back of abutments, 29'-3" out-to-out of deck.
Traffic to be maintained using stage construction.

Scope of work: Partial and full depth deck patching, and installation of Permanent Protective Shield over Tollway & I-80.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Location and size of the deck repair shall be determined in the field by the Engineer.

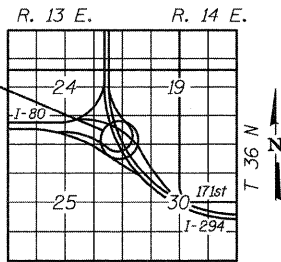
See roadway plans for traffic control details.



PLAN

- Deck Slab Repair (Partial)
- Deck Slab Repair (Full Depth)

STRUCTURE LOCATION



LOCATION SKETCH



Expires: 11/30/2010

Scott D. Sanborn

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4
Deck Slab Repair (Partial)	Sq. Yd.	3
Protective Shield (Permanent)	Sq. Yd.	711

BRIDGE REPAIR
FAI-80 EB RAMP TO I-294

*Section (95-5-1, ETC, 189-824)RS-1

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	80	*	COOK	80	45
2 SHEETS	SN 016-2132			CONTRACT NO. 60F61	
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

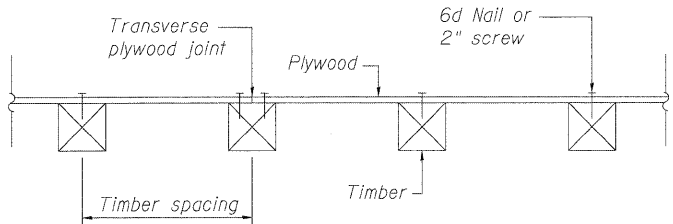
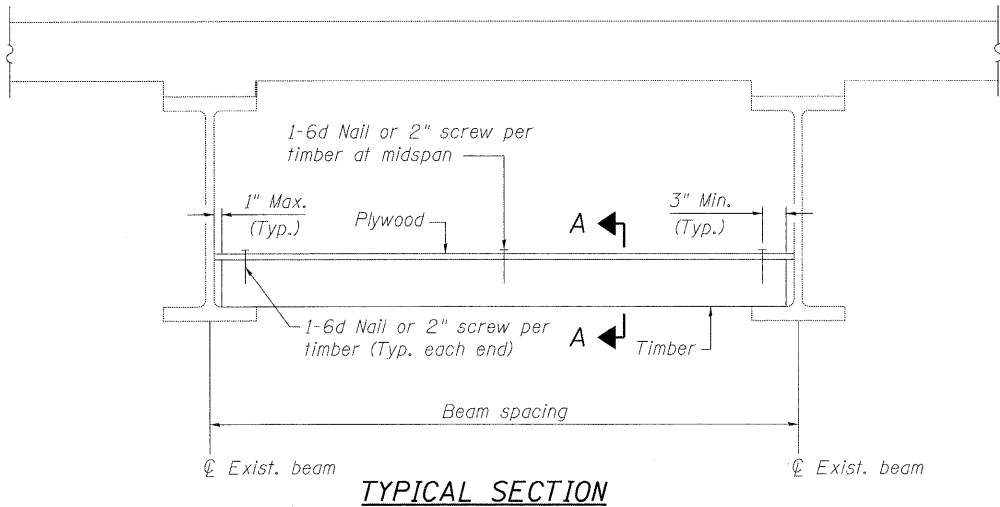
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIMBER SPACING

NOTES

See special provisions for Permanent Protective Shield System.
Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
All timber shall be treated.
Plywood shall be 5/8" Exterior type plywood by APA.
Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
Transverse plywood joints shall be supported by timbers.
When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
Design load = 200 psf.

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12



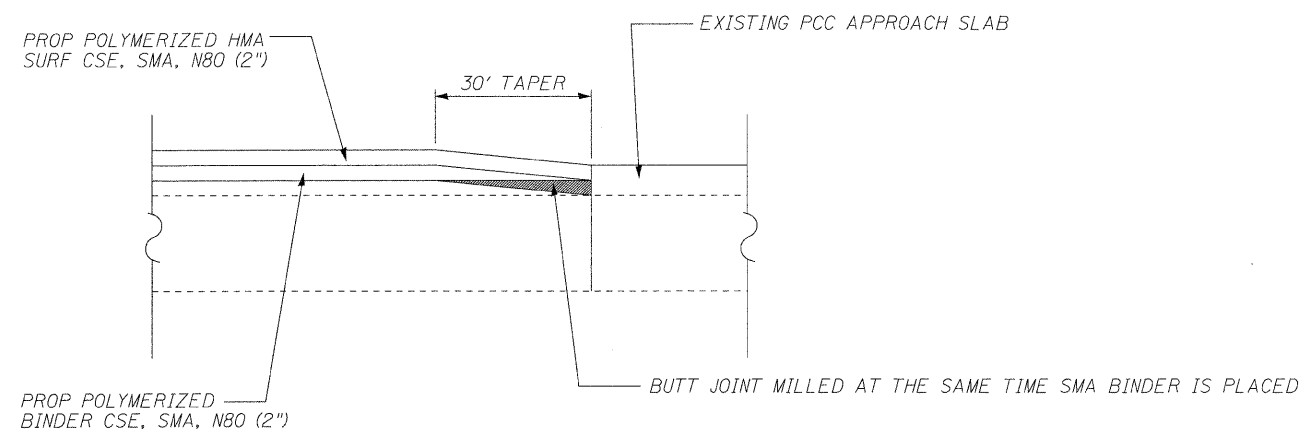
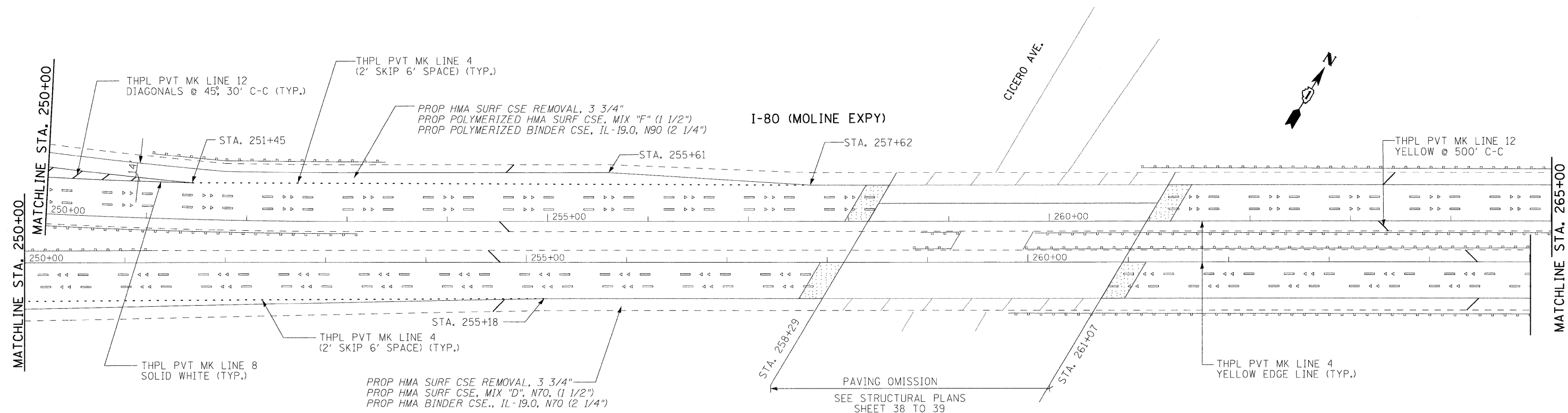
PERMANENT PROTECTIVE SHIELD
FAI-80 EB RAMP TO I-294

DESIGNED - CMV
CHECKED - SDS
DRAWN - DLH
CHECKED - CMV

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

*Section (95-5-1, ETC, 189-824)RS-1

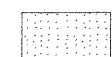
SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2 SHEETS	80	*	COOK	80	46
SN 016-2132		CONTRACT NO. 60F61			
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT		



NOTE:
THIS WORK IS THE SAME ON BOTH ENDS OF THE PCC APPROACH SLABS.
THE DETAIL ONLY SHOWS THE SOUTH SIDE OF THE BRIDGE.

THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THE EXISTING PCC APPROACH SLABS. ANY DAMAGE TO THE APPROACH SLABS, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX THE DAMAGE AND WILL NOT BE PAID FOR SEPARATELY.

LEGEND

 BUTT JOINT

0' 25' 50' 100'
SCALE: 1"= 50'

LOWCO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100

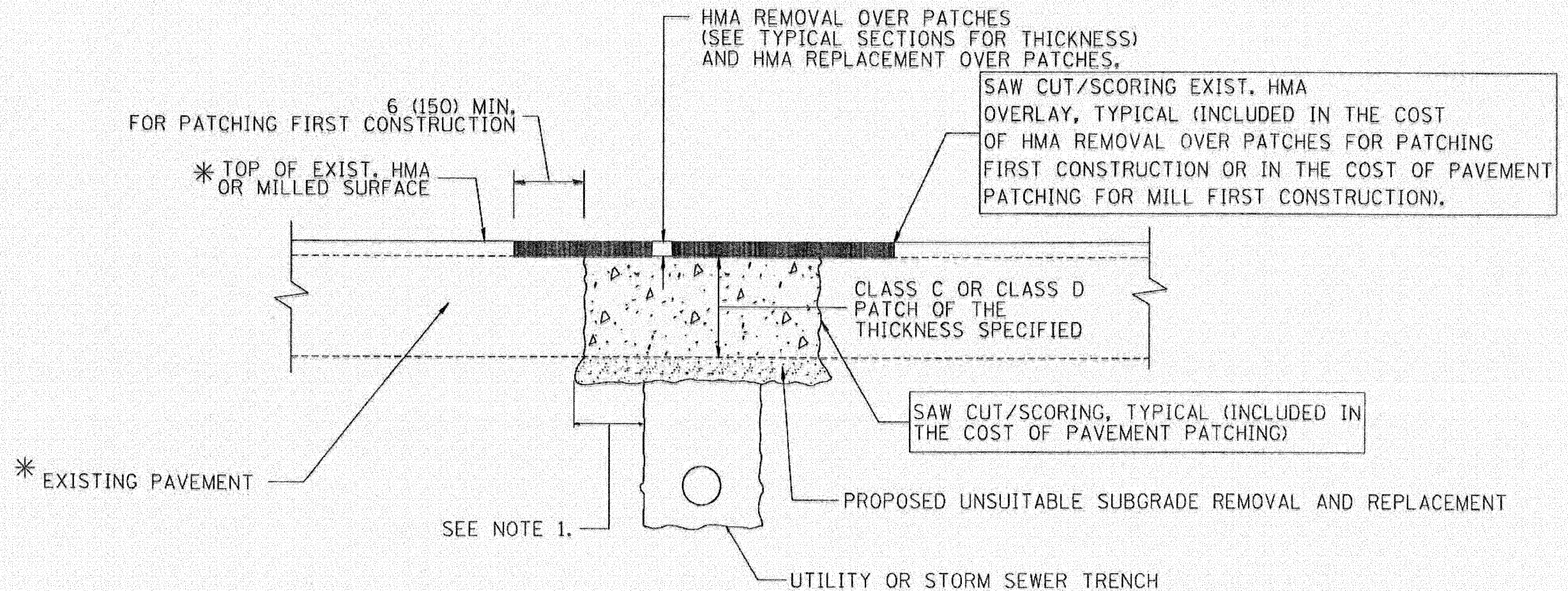
USER NAME = #USERS#	DESIGNED - MJY & ST	REVISED -
PLOT SCALE = #SCALE#	DRAWN - ST	REVISED -
PLOT DATE = #DATE#	CHECKED - WHE	REVISED -
	DATE - 07/08/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING DETAILS AT PCC APPROACH SLABS
I-80 (EAST OF 80th AVE. TO I-294)**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 250+00 TO STA. 280+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(95-5-1, ETC, 1819-824) RS-2	WILL & COOK	80	47
C-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR
THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

REVISIONS	
NAME	DATE
R. SHAH	01/14/95
R. SHAH	03/27/95
T. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/01
R. BORO	09/04/03
K. ENG	00/27/08

LONGO, INC.
CONSULTING ENGINEERS
1860 WALL ST., SUITE 222
HAVERHILL, ILLINOIS 60563 PH (630) 577-9100

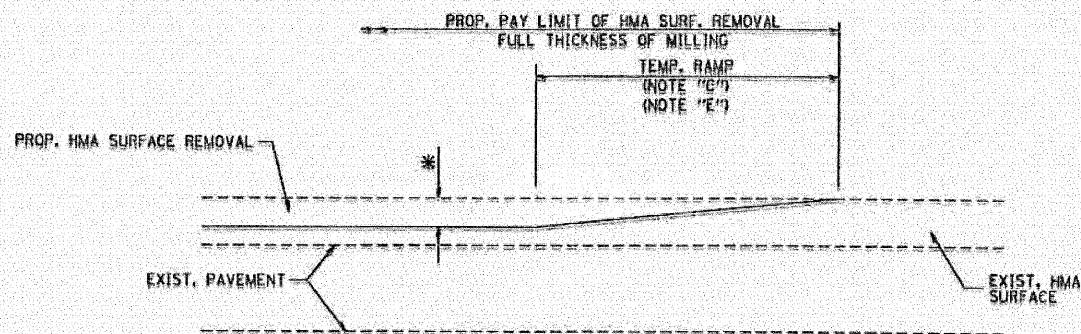
DESIGNED - MJY	REVISED -
DRAWN - ST	REVISED -
CHECKED - MJY	REVISED -
DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL SHEETS
I-80 (EAST OF 80th TO I-294)

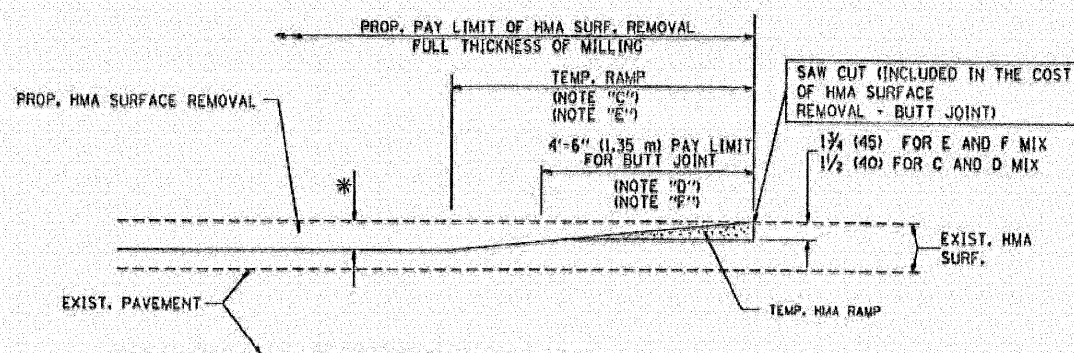
SCALE: NONE SHEET NO. 1 OF 14 SHEETS STA. 10+00 TO STA. 405+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	195-5-1, ETC. 1819-824 RS-1	WILL & COOK	80	48
D-91-145-09			CONTRACT NO. 60F61	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



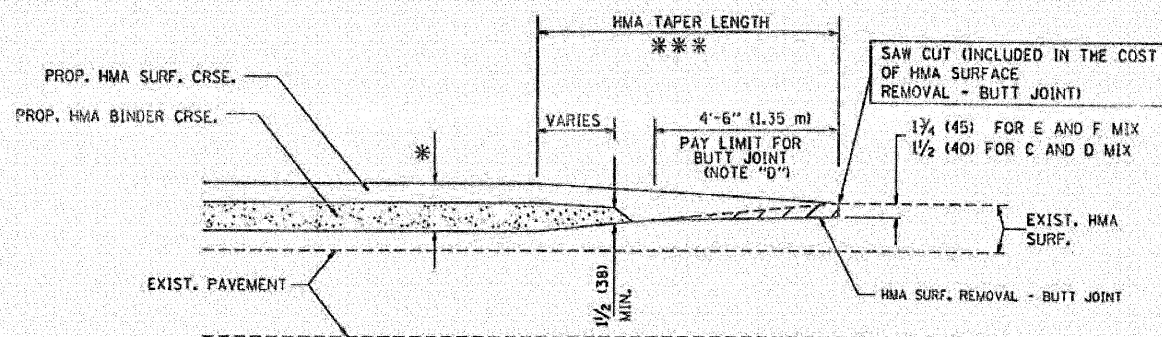
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



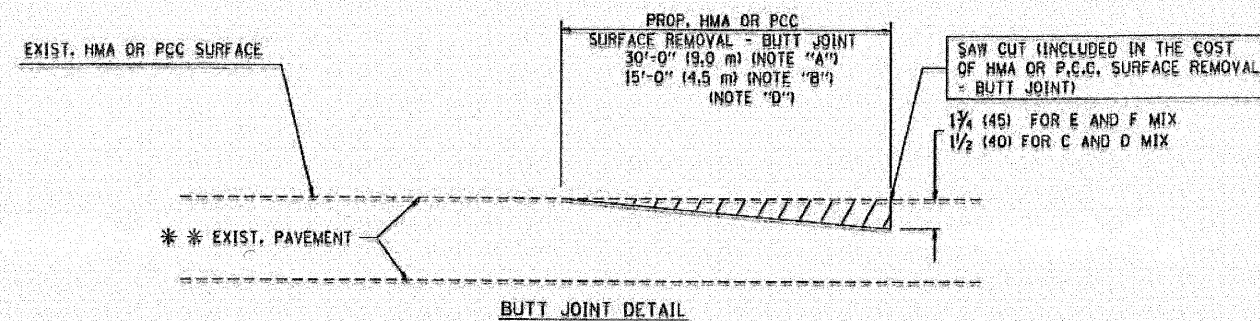
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP

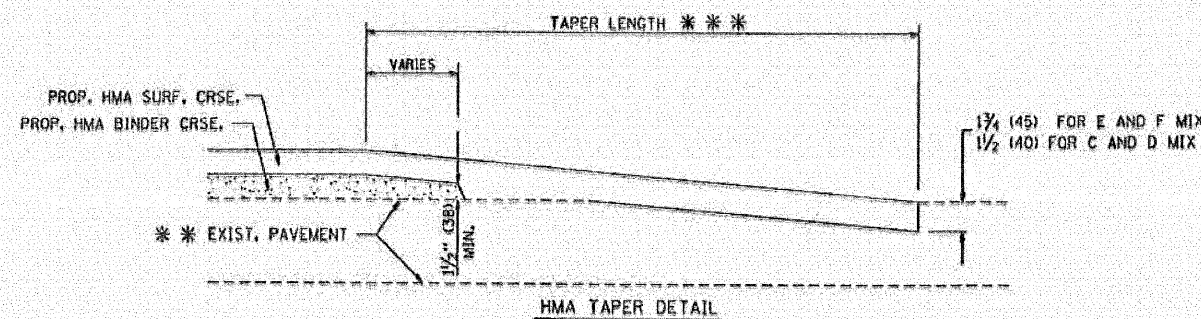


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

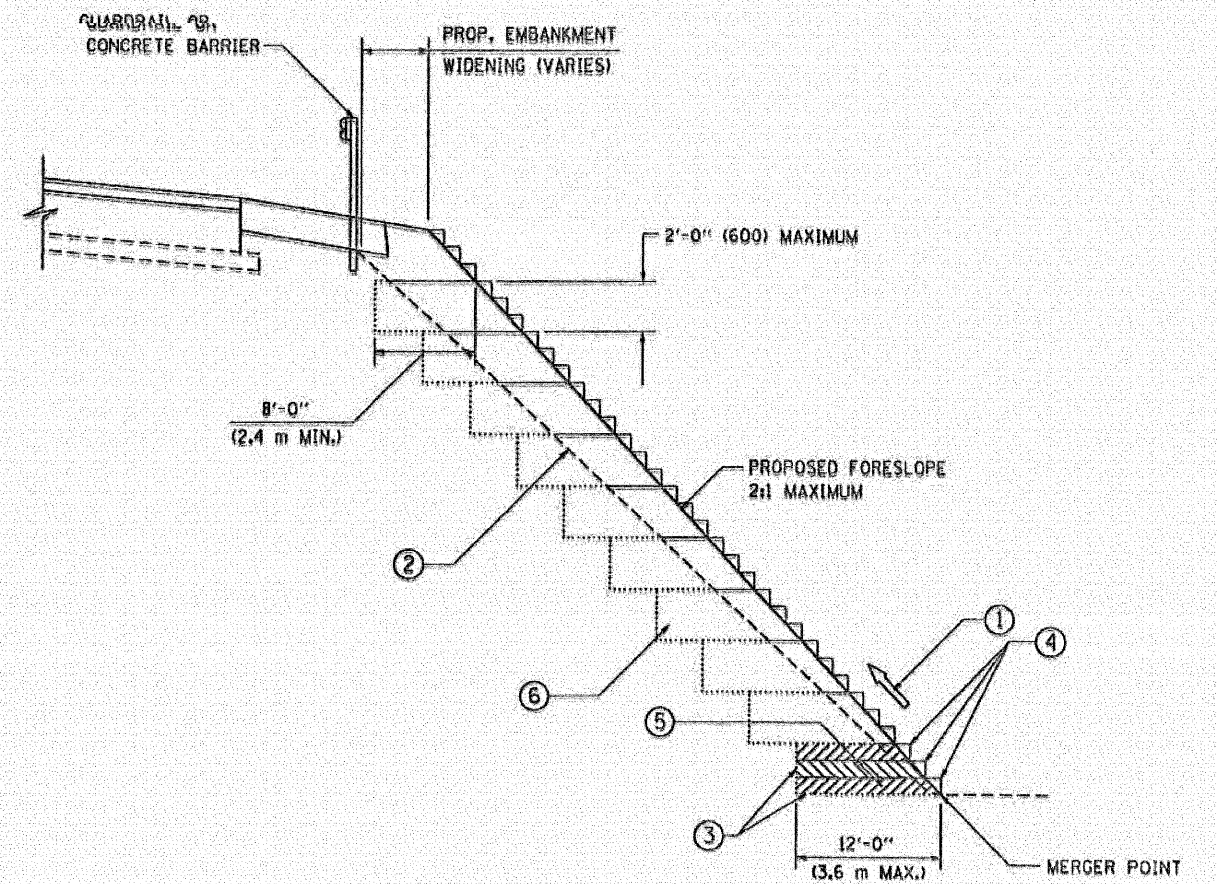
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

BUTT JOINT AND HMA TAPER DETAILS

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	7-27-92
R. SHAW	02/09/94
A. ABBAS	01/21/97
M. GOMEZ	04/26/01
R. BORD	01/01/07



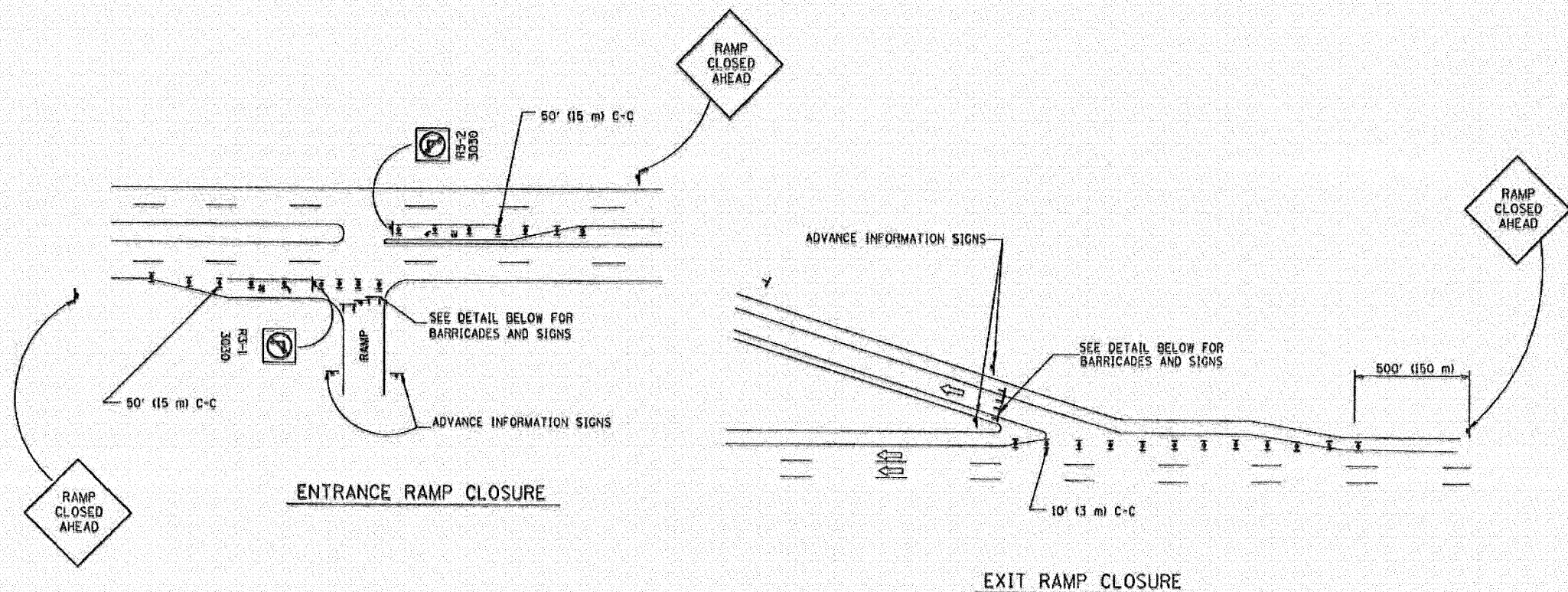
TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

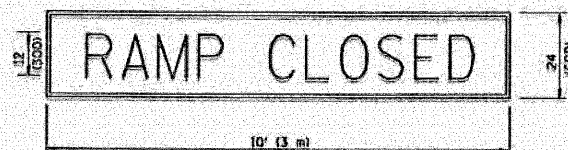
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

BENCHING DETAIL FOR
EMBANKMENT WIDENING

REVISIONS	
NAME	DATE
	05/16/04



RAMP CLOSURE ADVANCE WARNING SIGN

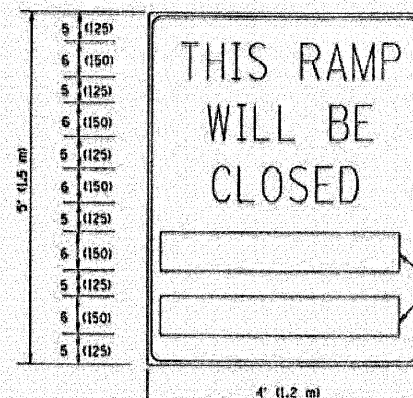


BLACK LEGEND ON ORANGE
REFLECTORIZED BACKGROUND

1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE
CLOSED EXIT RAMP.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON
WHITE REFLECTORIZED
BACKGROUND

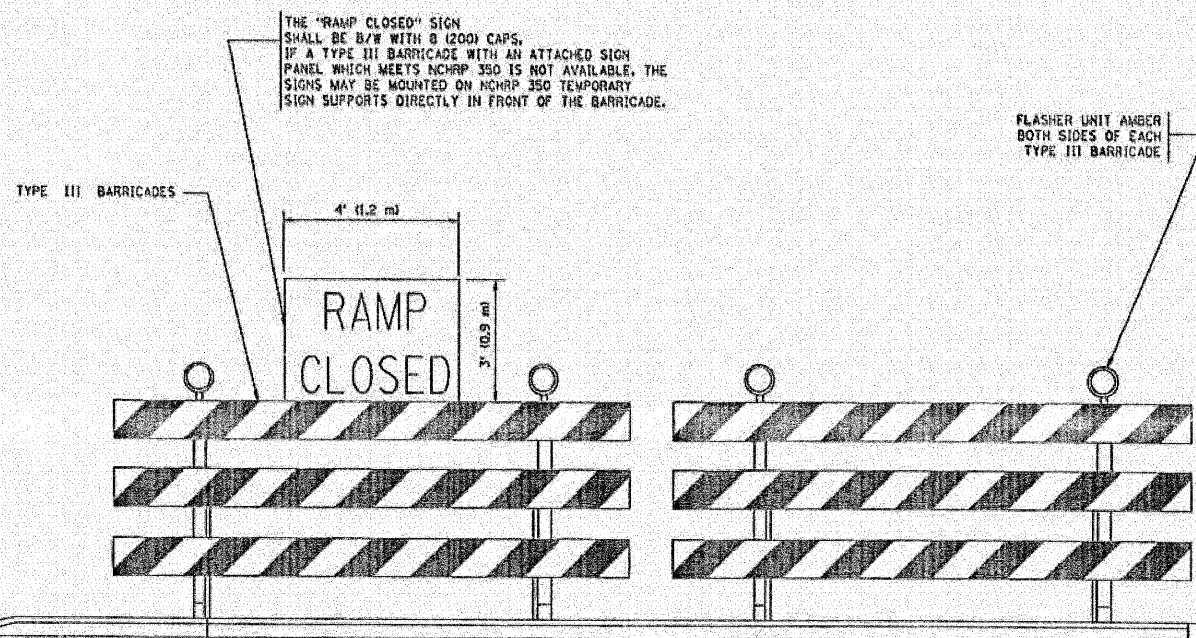
1/2 (12) BORDER

THESE BLANK AREAS SHALL BE
FILLED WITH THE DATES AND THE
TIME THAT THE RAMP WILL BE
CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP. MINIMUM OF
1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 20 (700) HIGH.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.



DETAIL FOR REQUIRED BARRICADES & SIGNS

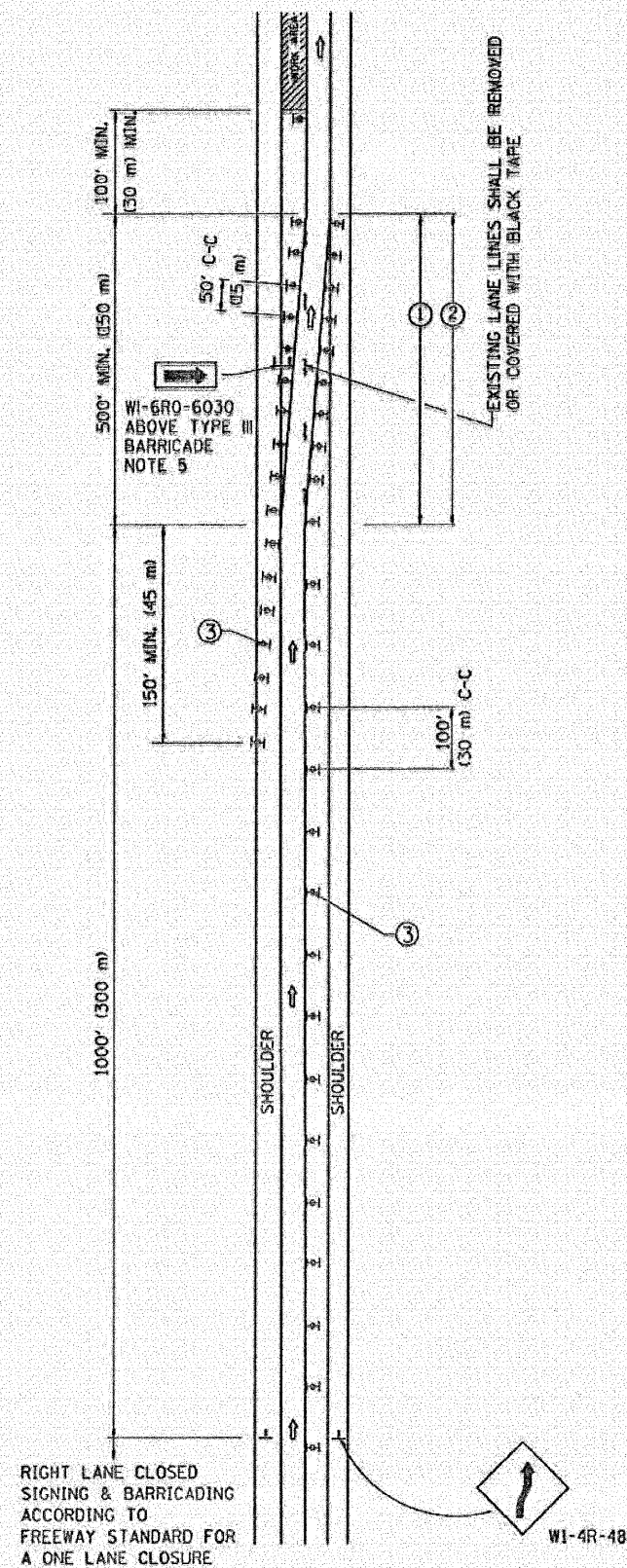
SYMBOLS

- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHT

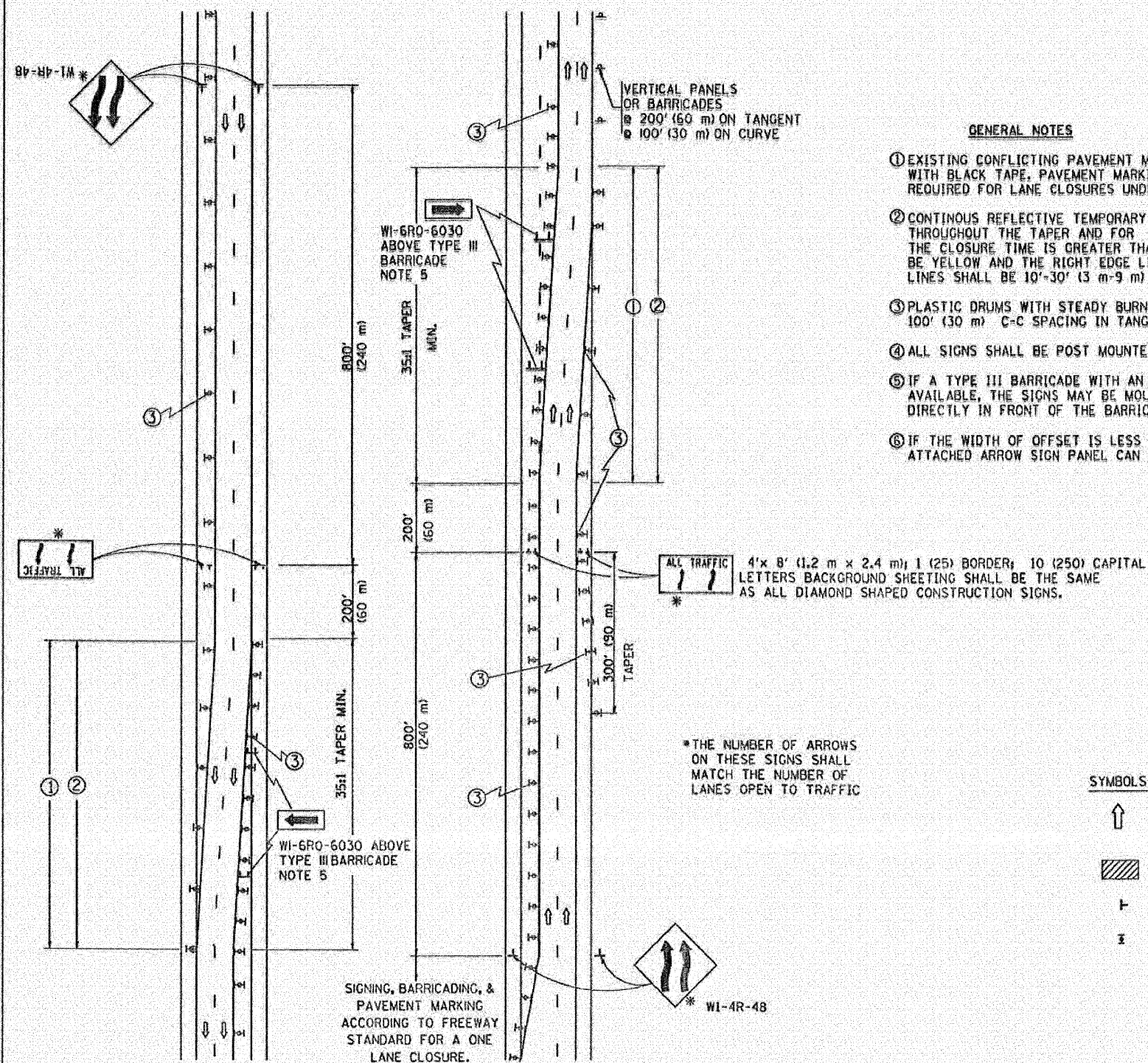
ENTRANCE AND EXIT RAMP CLOSURE DETAILS

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1-90
DWS	9-94
DWS	12-94
DWS/JAF	12-02
JAF	2-05
SFB	1-01
Revised devices to meet NCHRP 350	4-03

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

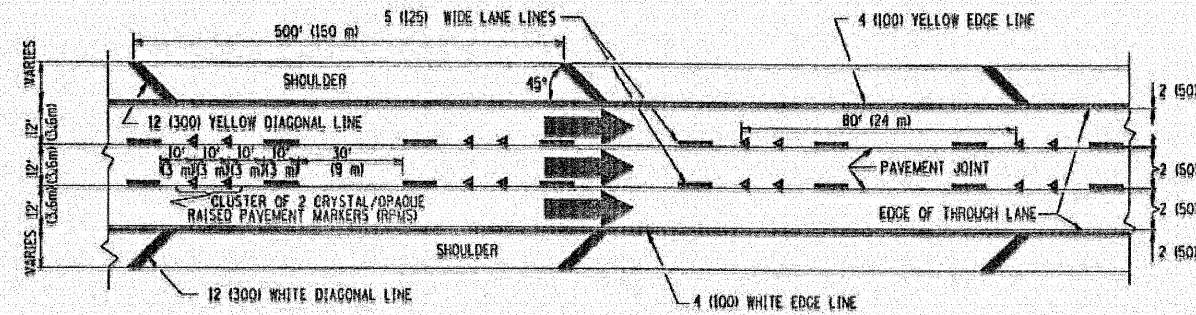
SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ENTRANCE AND EXIT RAMP CLOSURE DETAILS

REVISIONS	
NAME	DATE
DBS	2/87
DBS	1/90
DBS	12/27/94
DBS	11/98
JAF	4/03
JAF	2/06
SFB	1/07

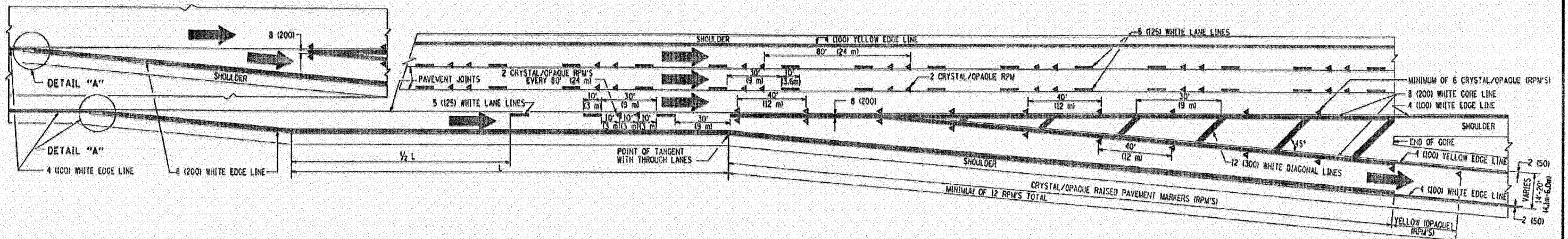
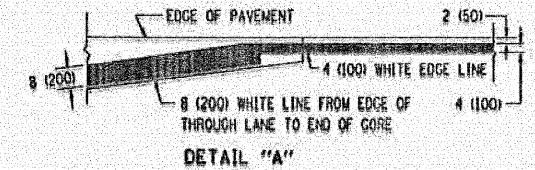
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) G-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH
THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



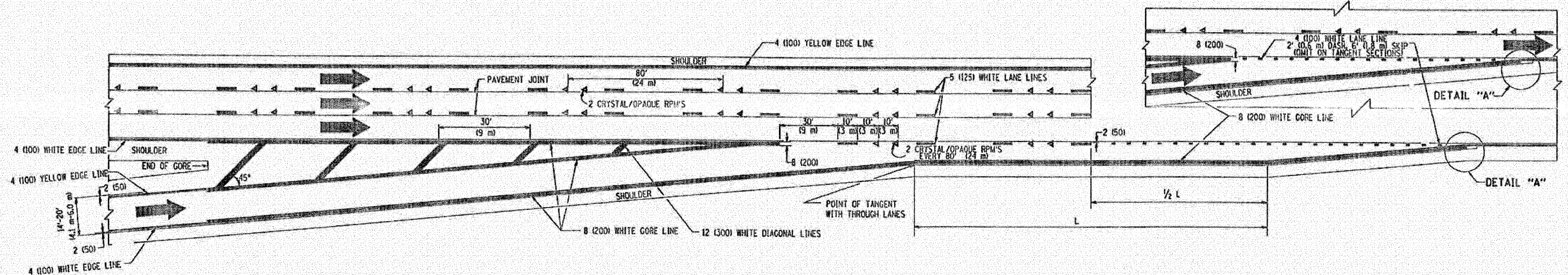
TYPICAL EDGE LINES & LANE LINES

NOTES:

1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCO



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AM	3/95
DWS	7/96
JSP	2/05
SPS	1/07

LONGO, INC.
CONSULTING ENGINEERS
1500 WALL ST., SUITE 202
HAPERVILLE, ILLINOIS 60563 PH 630/577-9100

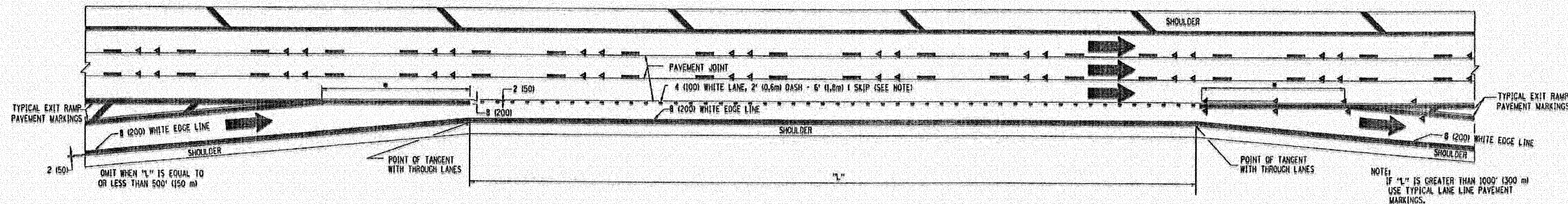
DESIGNED - MJY	REVISED -
DRAWN - ST	REVISED -
CHECKED - MJY	REVISED -
DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

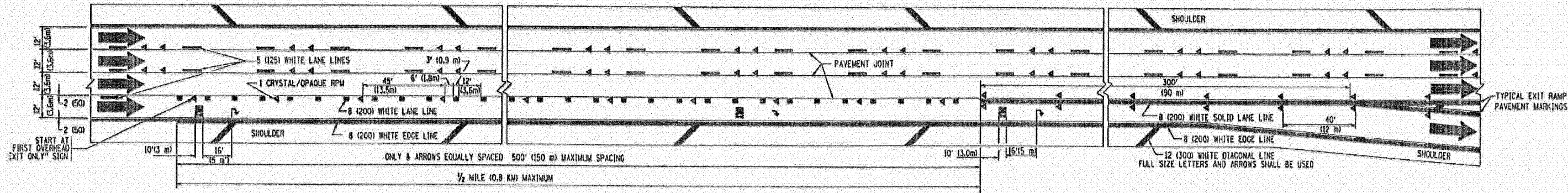
DISTRICT ONE DETAIL SHEETS
I-80 (EAST OF 80th TO I-294)

SCALE: NONE SHEET NO. 7 OF 14 SHEETS STA. 10+00 TO STA. 405+00

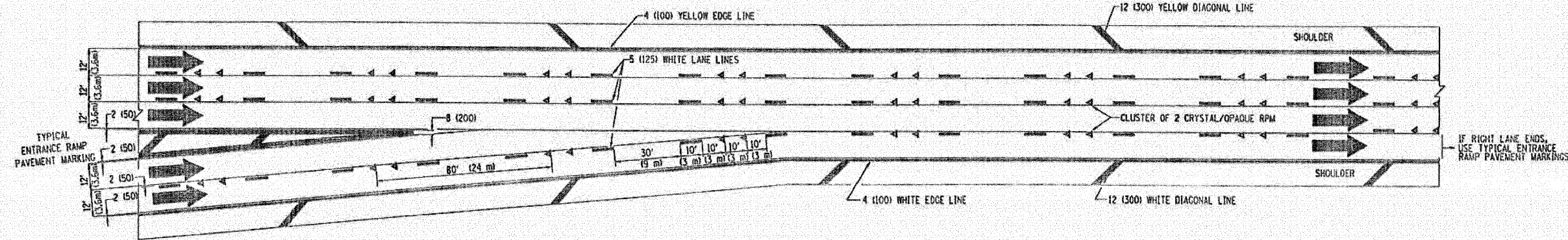
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	195-5-1, ETC, 1819-824 RS-1	WILL & COOK	80	54
D-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

REVISIONS	
NAME	DATE
DPS	1/90
DPS	5/91
SPB	1/07

LONCO, INC.
CONSULTING ENGINEERS
1550 WALK ST., SUITE 222
NAPERVILLE, ILLINOIS 60563 PH (630) 577-5100

DESIGNED - MJY	REVISED -
DRAWN - ST	REVISED -
CHECKED - MJY	REVISED -
DATE - 07/08/2009	REVISED -

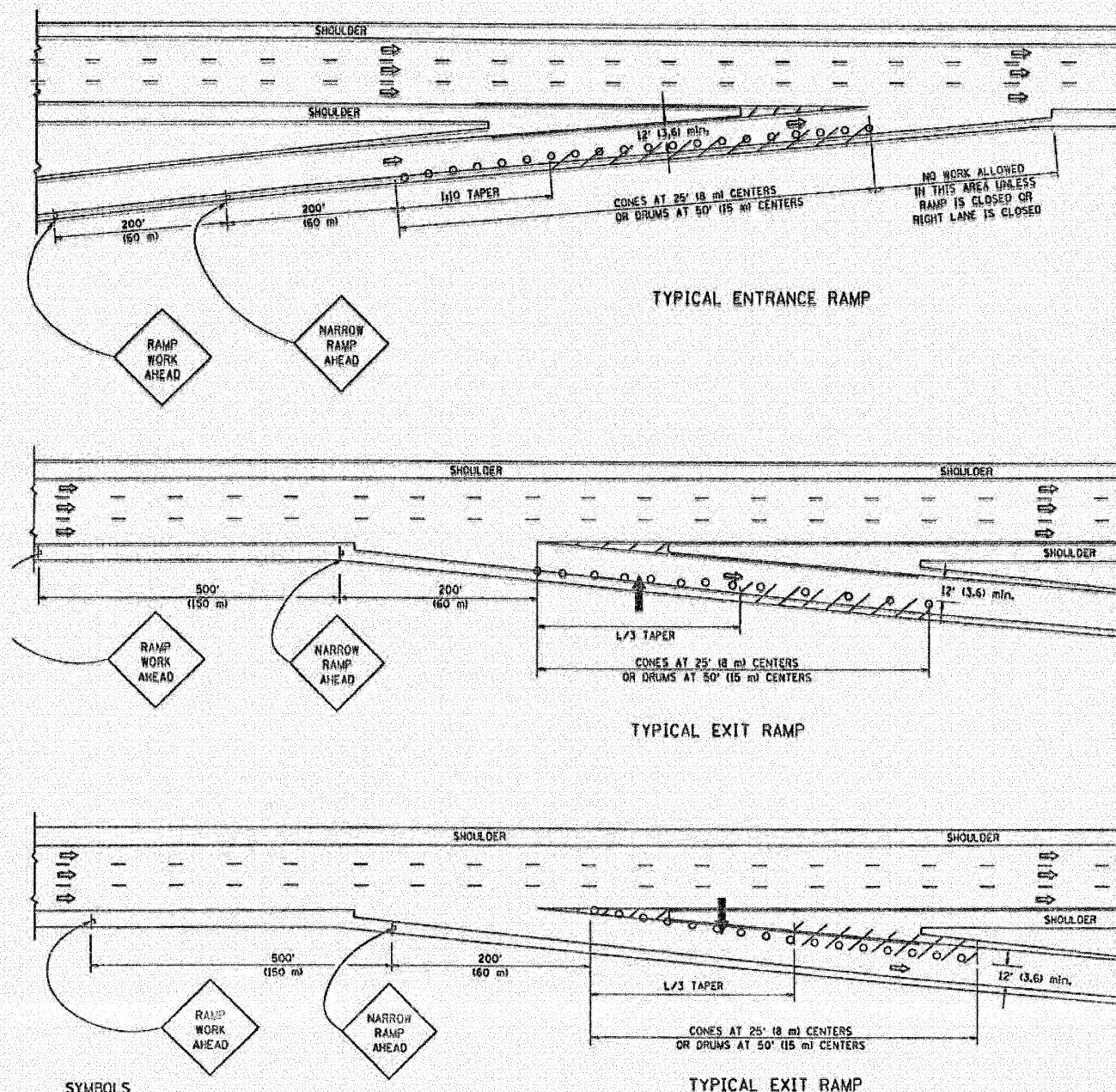
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL SHEETS
I-80 (EAST OF 80th TO I-294)

SCALE: NONE SHEET NO. 8 OF 14 SHEETS STA. 10+00 TO STA. 405+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(95-5-1, ETC. 1819-824) RS-1	WILL & COOK	80	55
0-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PARTIAL RAMP CLOSURE DETAILS



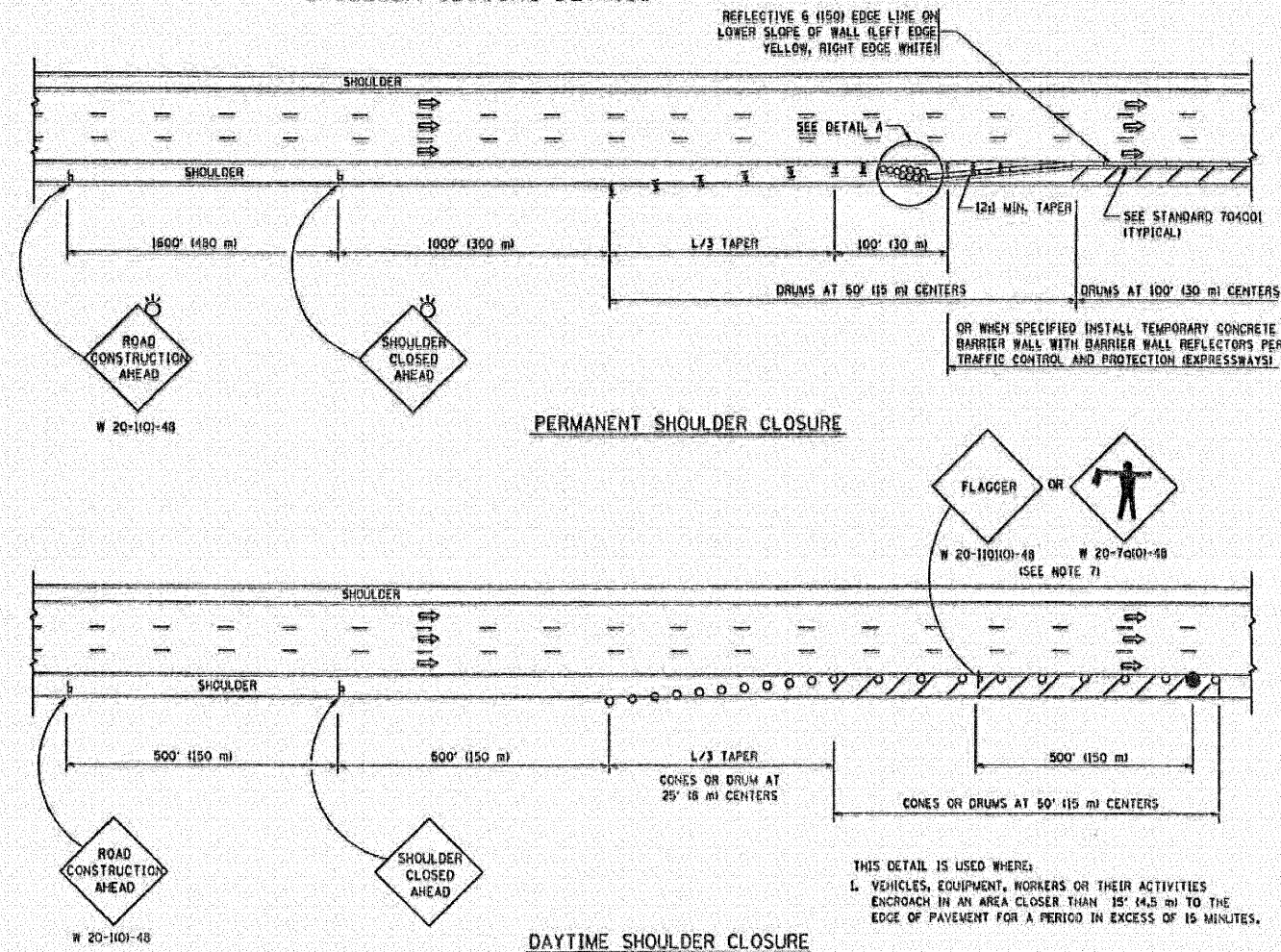
SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

- THE "L" DISTANCE EQUALS:
SPEED LIMIT FORMULAS
45 mph (72 km/h) METRIC ENGLISH
OR GREATER: $L = 0.65(W + S)$ $L = (W + S)$
W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE

DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

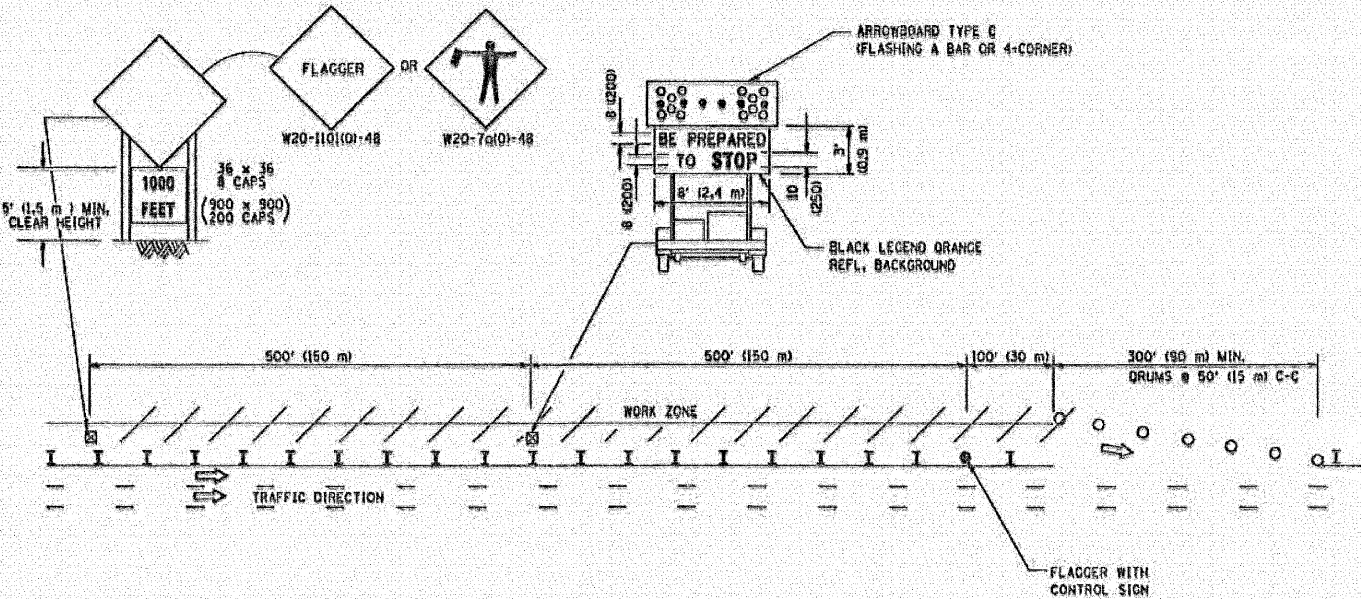
DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

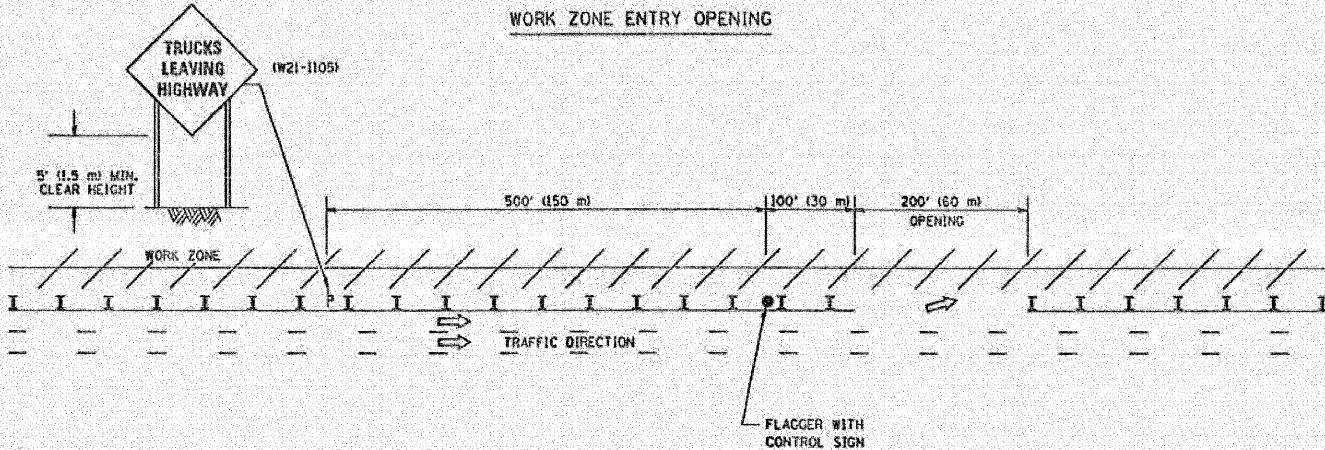
REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



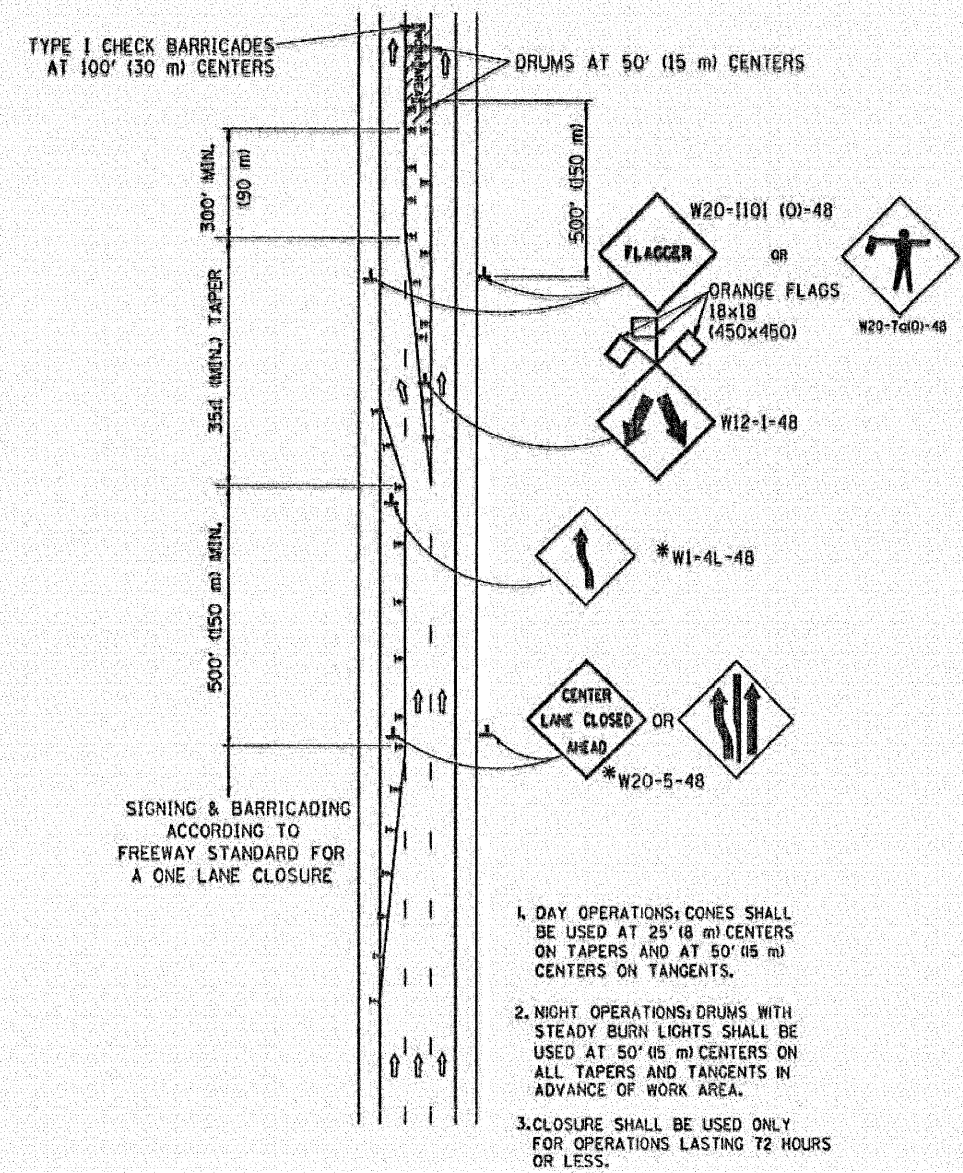
NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists.

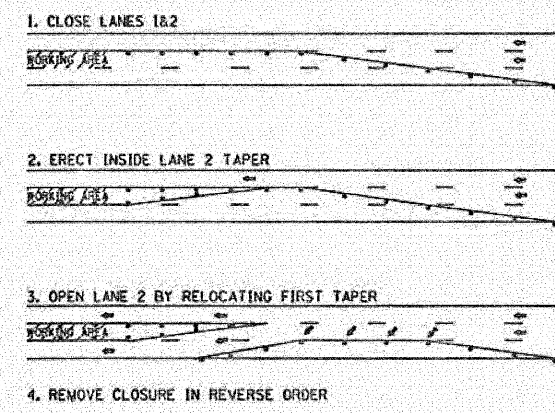
REVISIONS	
NAME	DATE
OWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

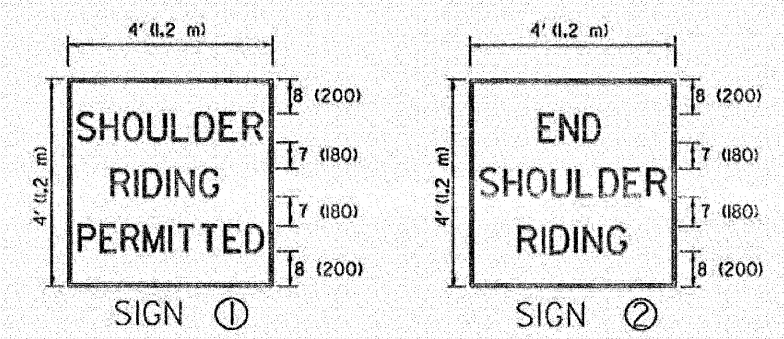
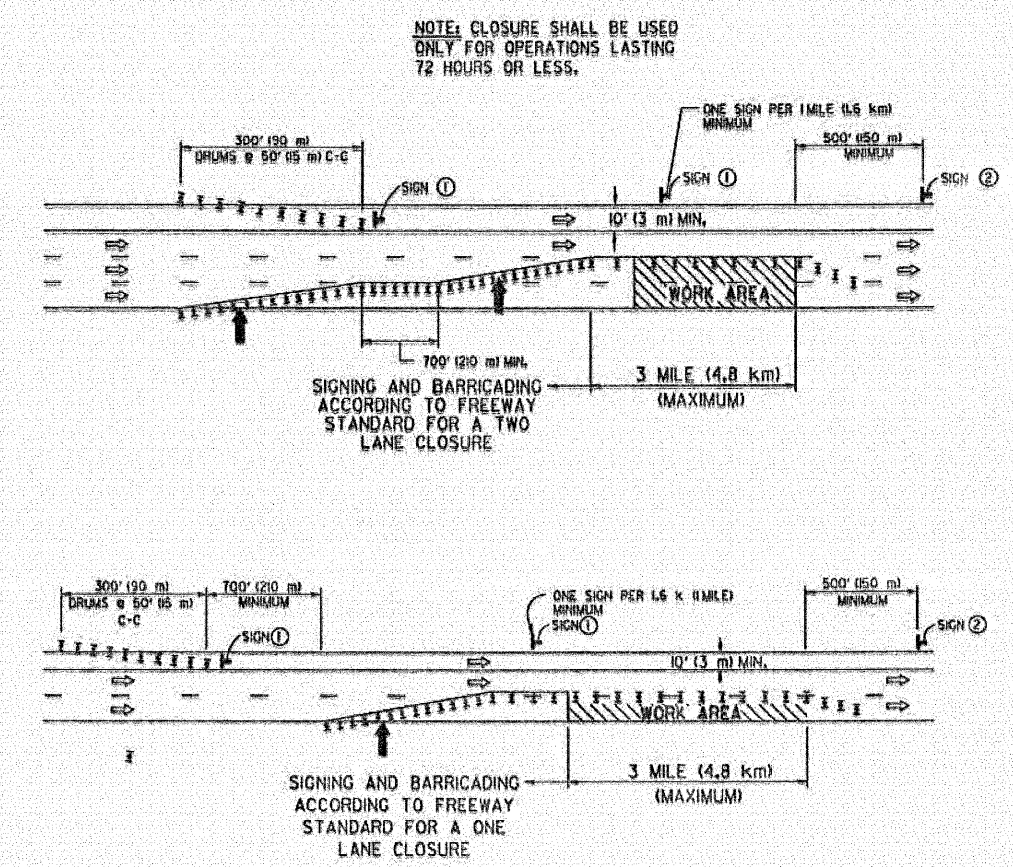
CENTER LANE CLOSURE



INSTALLATION SEQUENCE



SHOULDER LANE



SYMBOLS

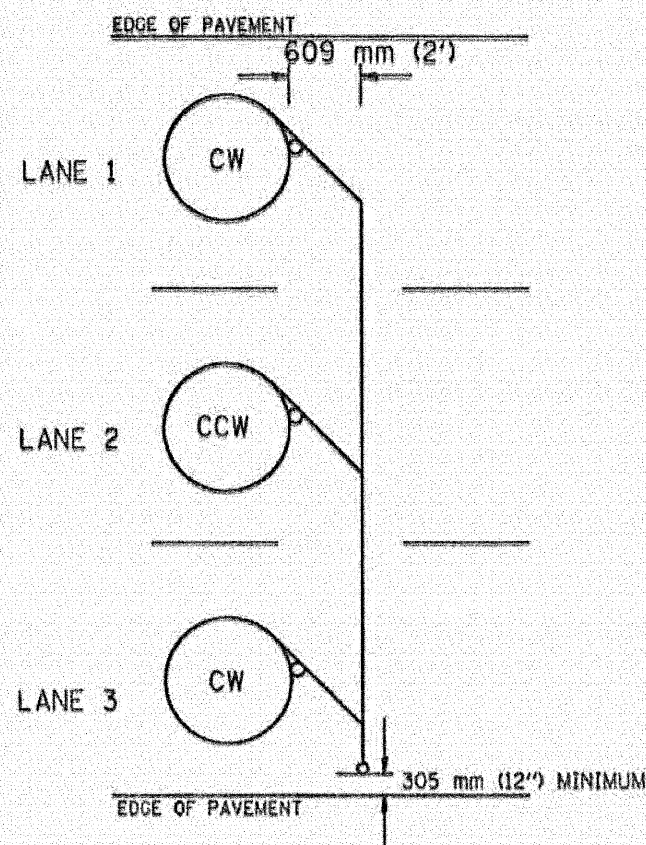
- ↑ DIRECTION OF TRAFFIC
- ➡ ARROWBOARD
- ▨ WORK AREA
- ◇ SIGN WITH 18x18 (450x450) ORANGE FLAGS ATTACHED *
- ▬ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ▬ TYPE I BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

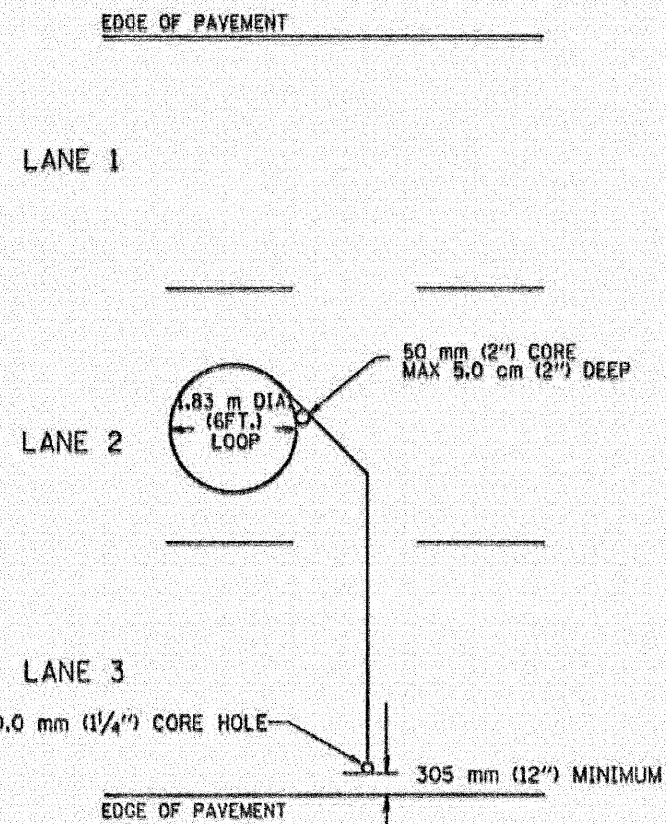
* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

REVISIONS	
NAME	DATE
PRIOR DETAILS ON TC-9 - JAF	4/03
SPB	1/07

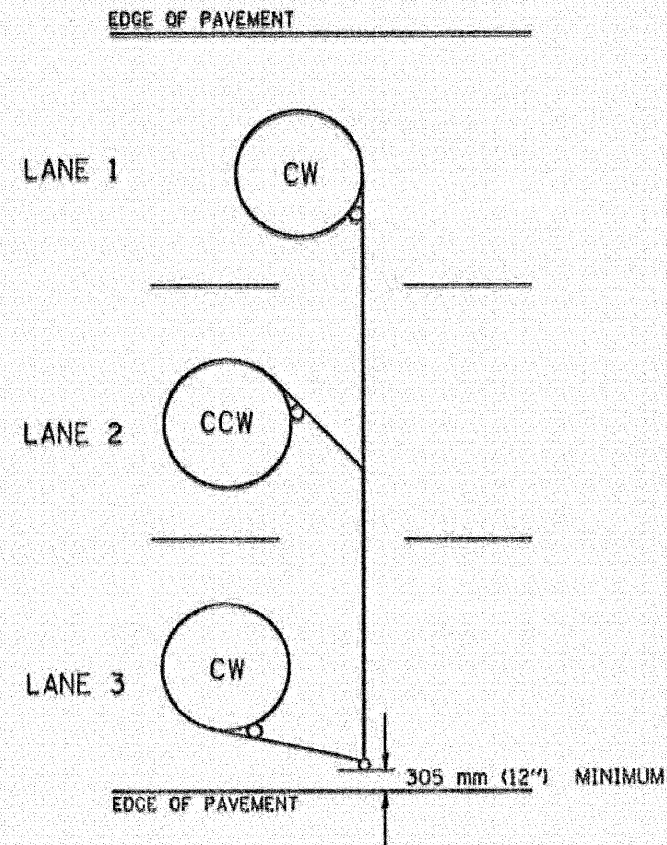
TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE



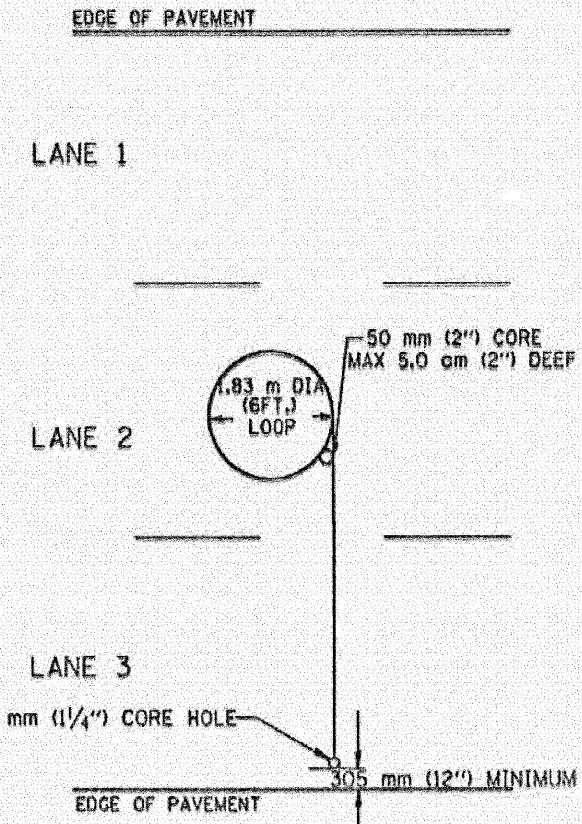
TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



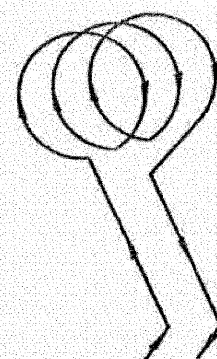
TYPICAL 1.83 m (6') DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



TYPICAL 1.83 m (6') DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 1.83 m (6') DIA. INDUCTION LOOP
LAYOUT FOR LANE 2

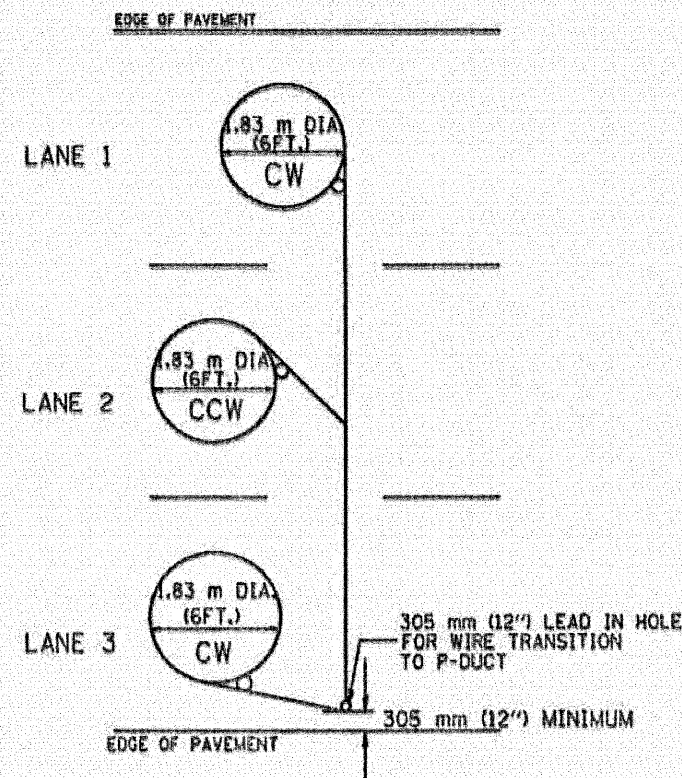


WIRING DETAILS

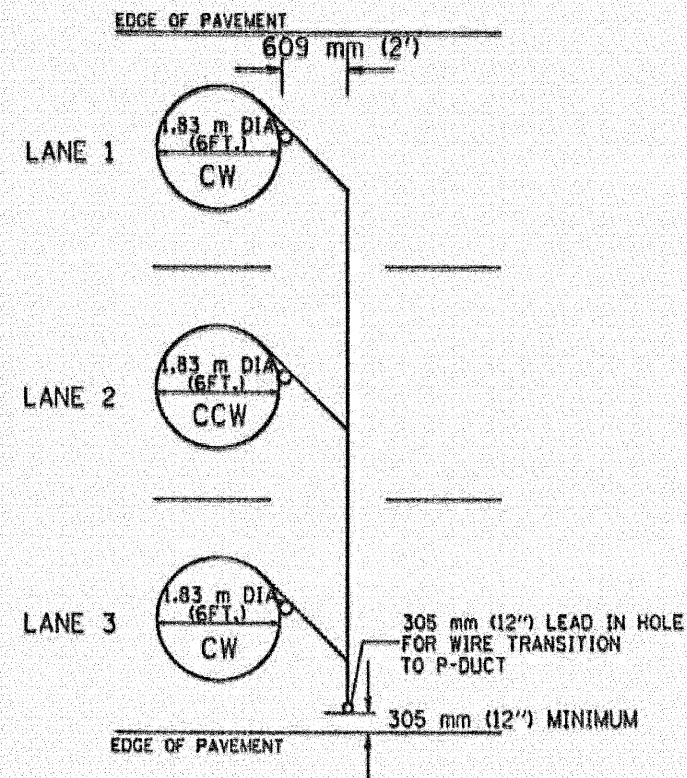
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

REVISIONS	
NAME	DATE
REV.	6/94
I.C.	9/96



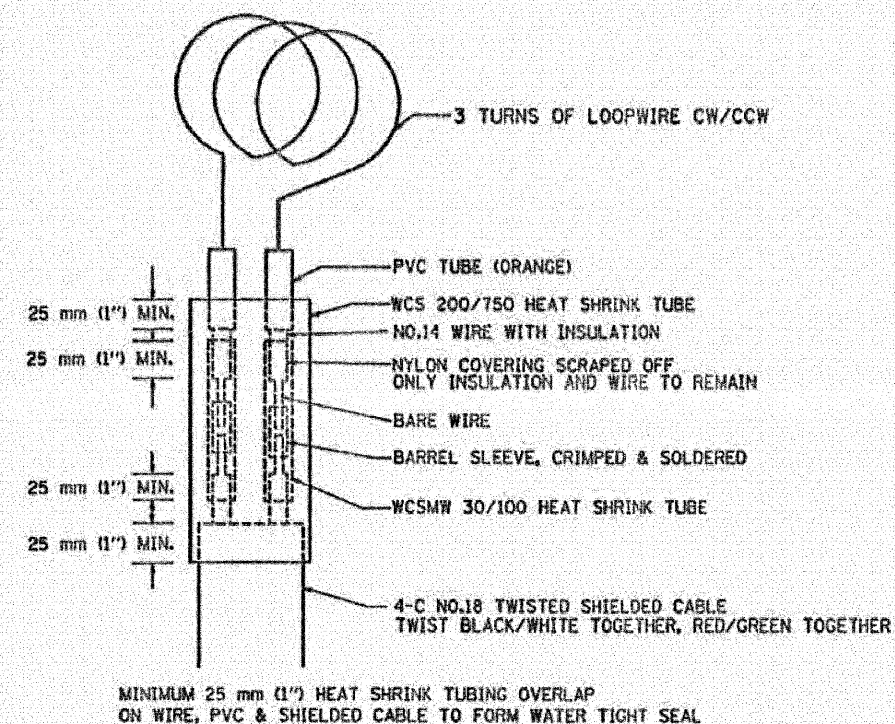
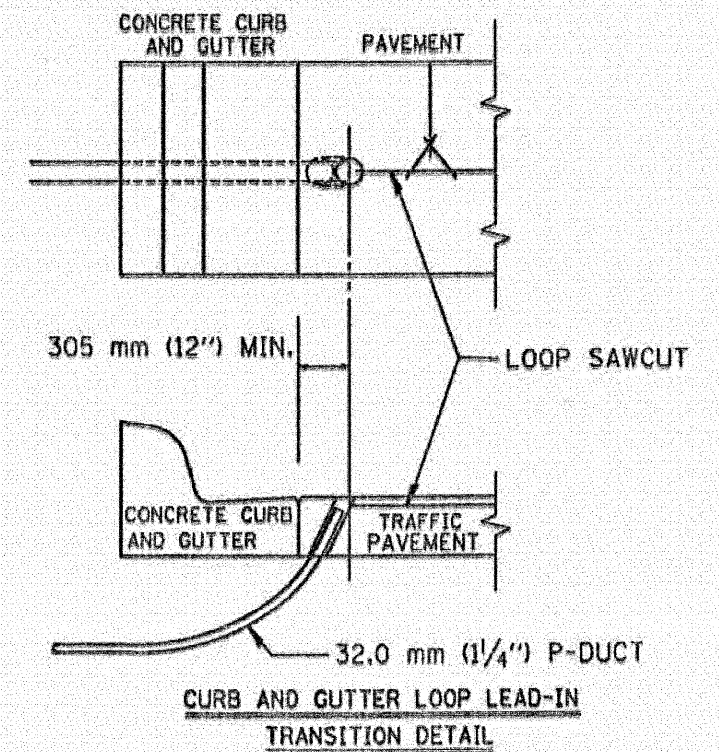
**TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY**



**TYPICAL 1.83 m (6') DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY**

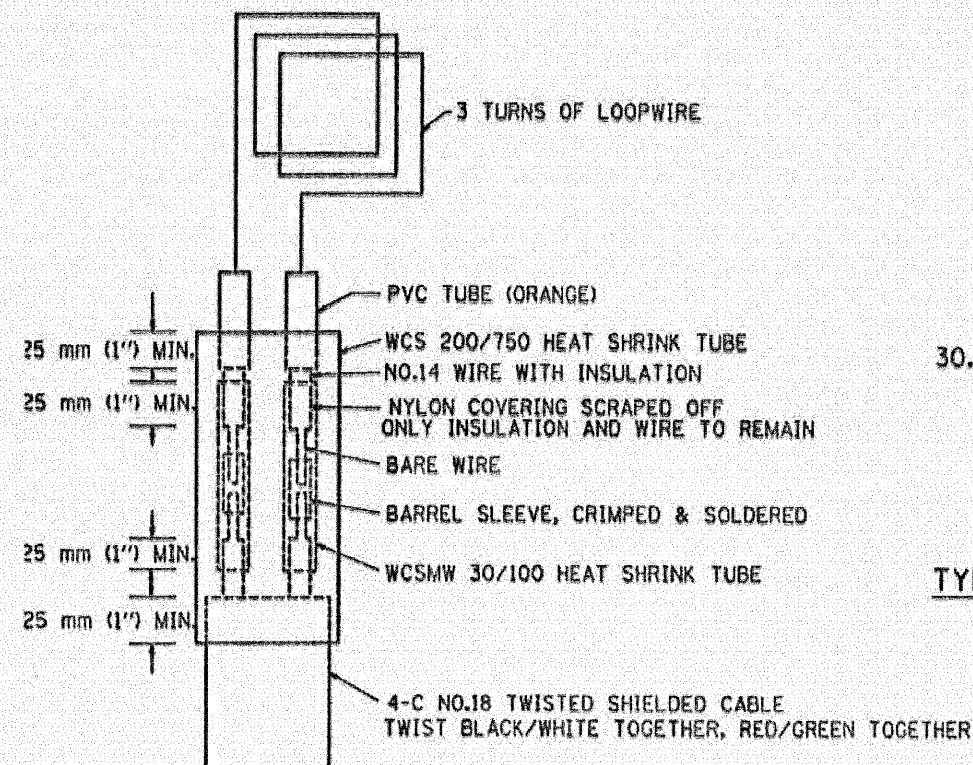
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



LOOP SPLICING REQUIREMENTS

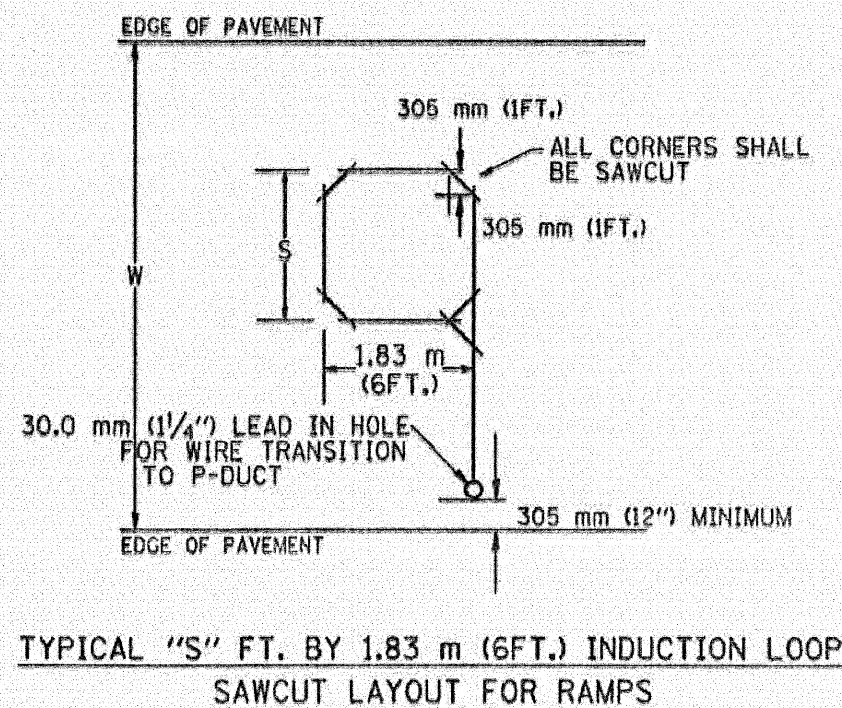
REVISIONS	
NAME	DATE
P.L.	5/94
T.C.	10/96



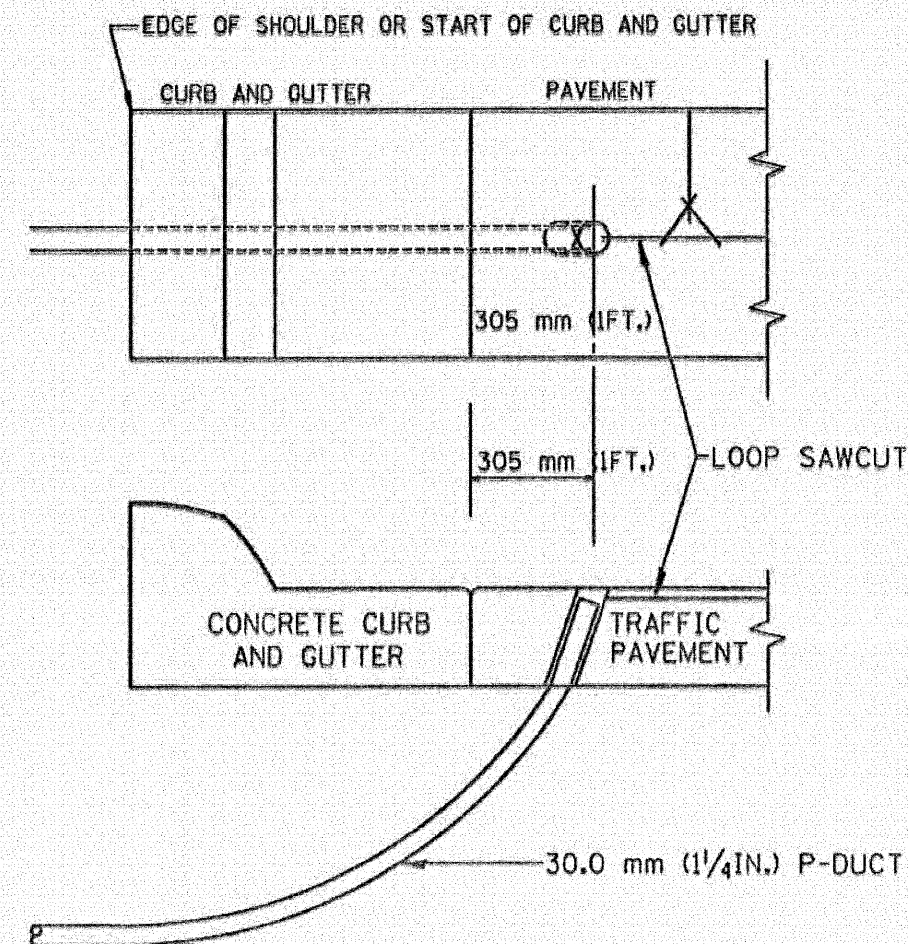
MINIMUM 25 mm (1") HEAT SHRINK TUBING OVERLAP
ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

TABLE 1	
WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')
7.3 m (24')	6.1 m (20')
7.6 m (25')	6.4 m (21')



TYPICAL "S" FT. BY 1.83 m (6FT.) INDUCTION LOOP
SAWCUT LAYOUT FOR RAMPS

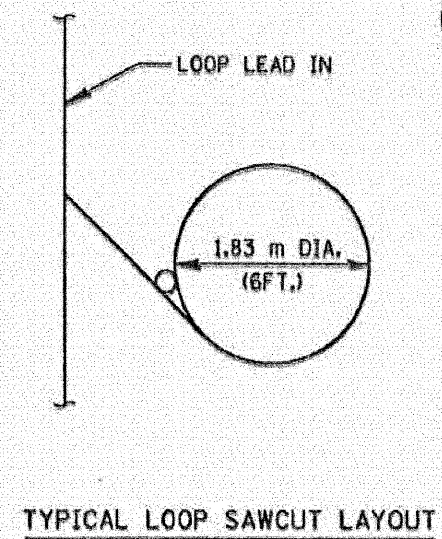


CURB AND GUTTER LOOP LEAD-IN
TRANSITION DETAIL

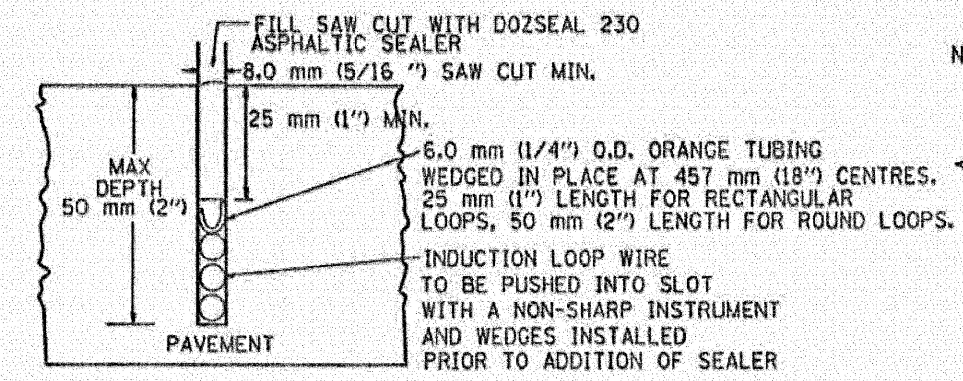
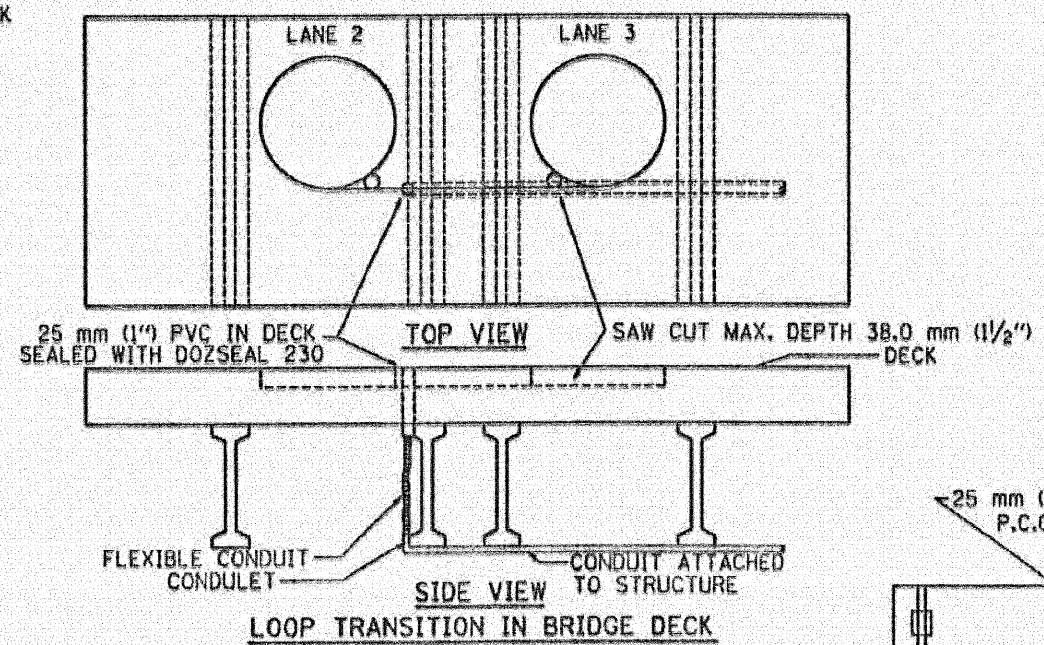
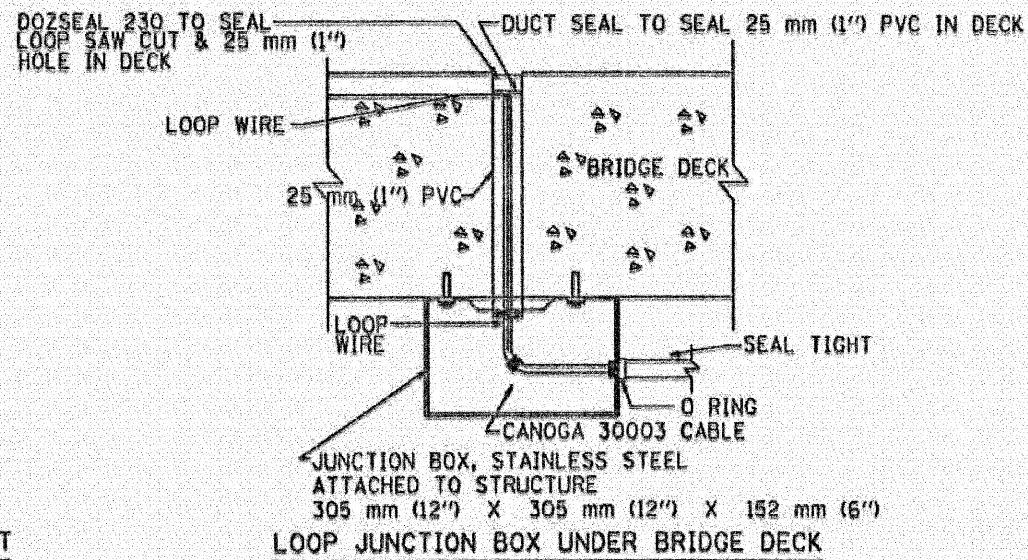
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

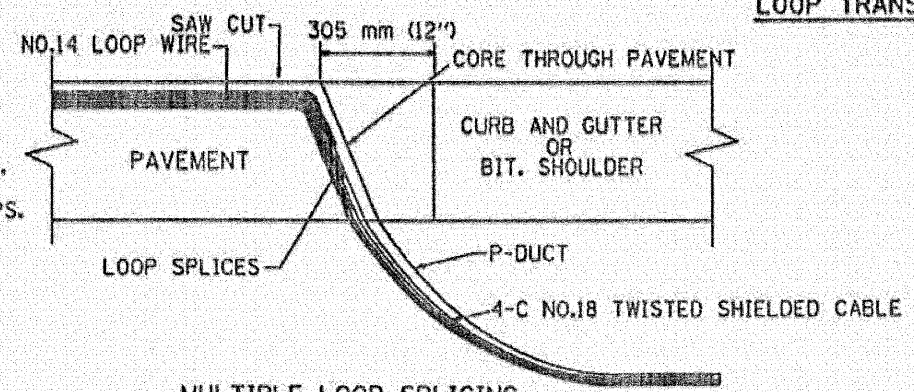
REVISIONS	
NAME	DATE
R.L.	6/94
T.C.	11/95
R.L.	05/96
T.C.	10/96



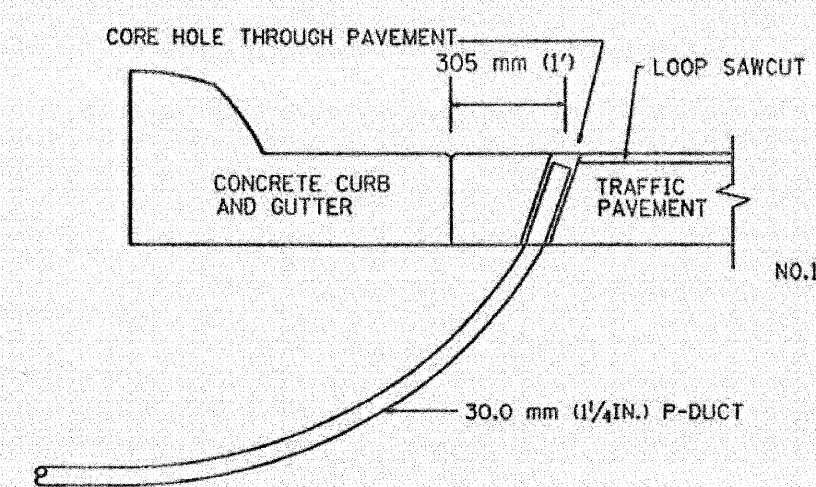
TYPICAL LOOP SAWCUT LAYOUT



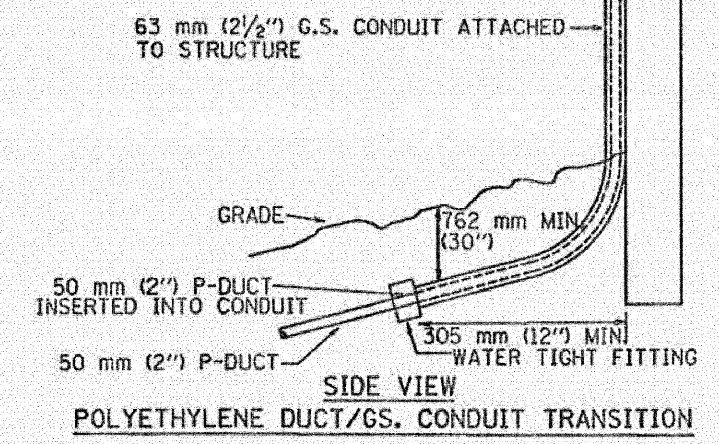
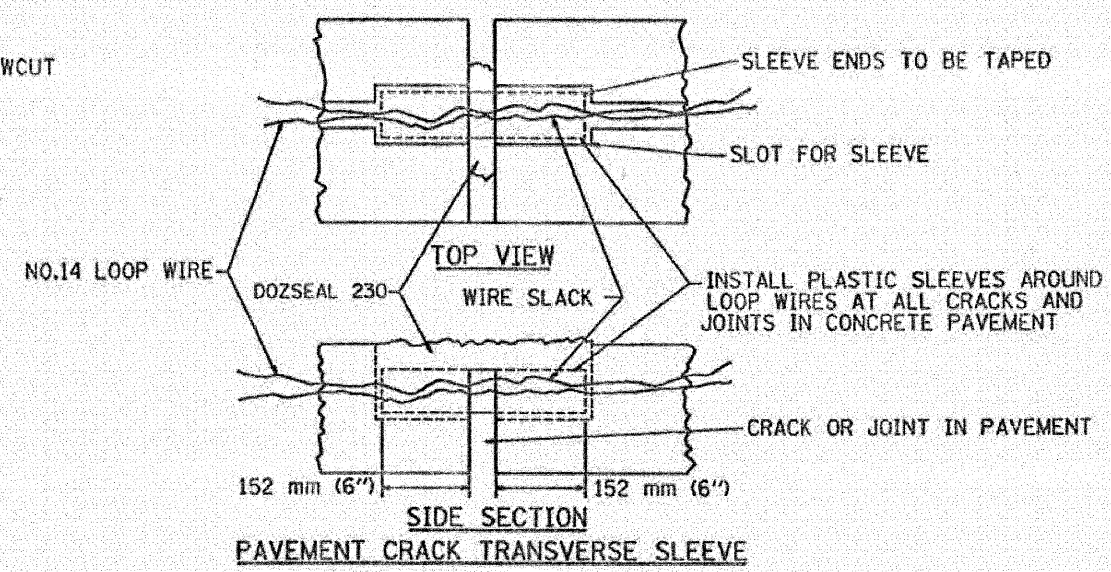
LOOP CROSS SECTION IN PAVEMENT



MULTIPLE LOOP SPLICING



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL



REVISIONS	
NAME	DATE
R.L.	5/91
R.L.	3/95
T.C.	11/95
R.L.	05/96
T.C.	10/96

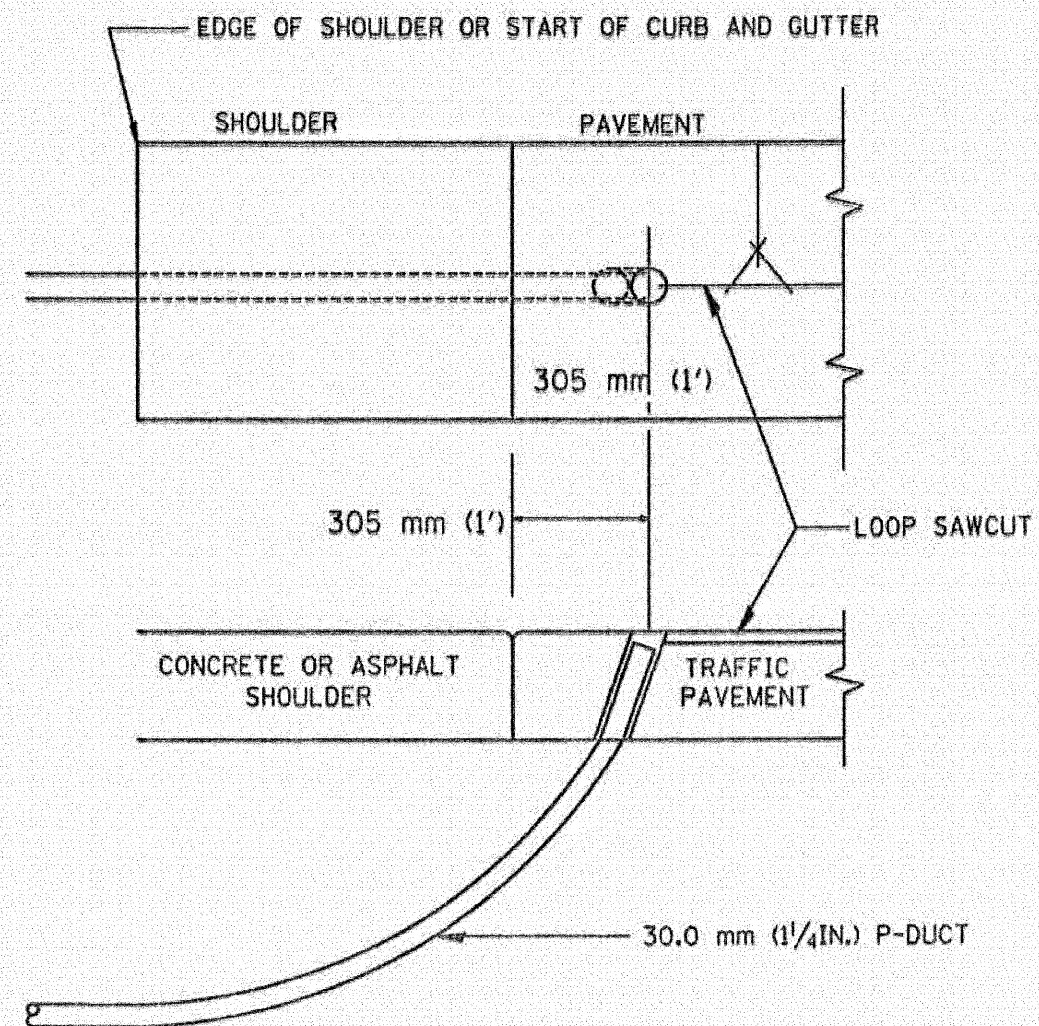
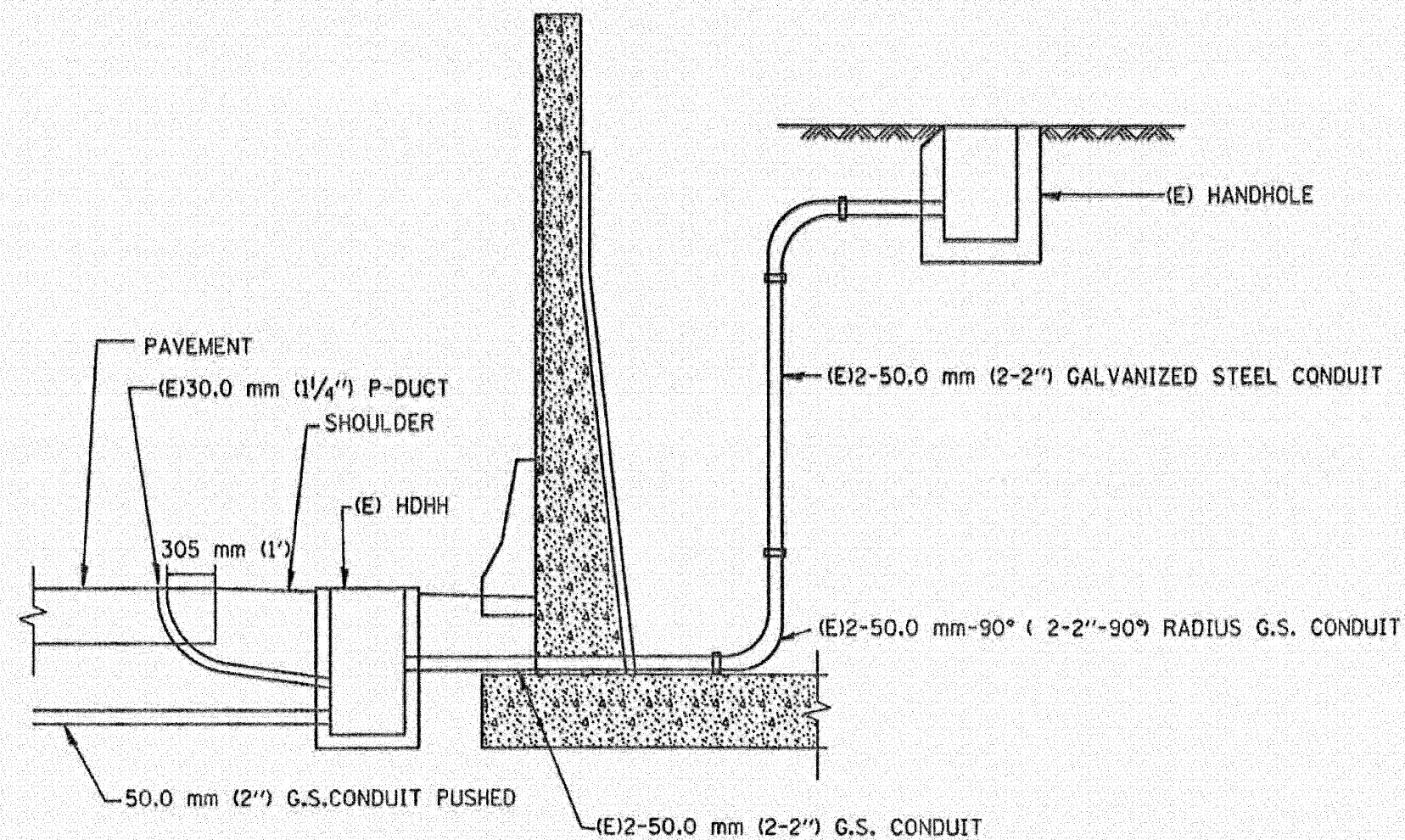
LONCO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 222
NAPERVILLE, ILLINOIS 60563 PH (630) 577-1100

DESIGNED - MJY	REVISED -
DRAWN - ST	REVISED -
CHECKED - MJY	REVISED -
DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOOP, CONDUIT & DUCT INSTALLATION DETAILS
I-80 (EAST OF 80th TO I-294)
SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. 81+61 TO STA. 422+00

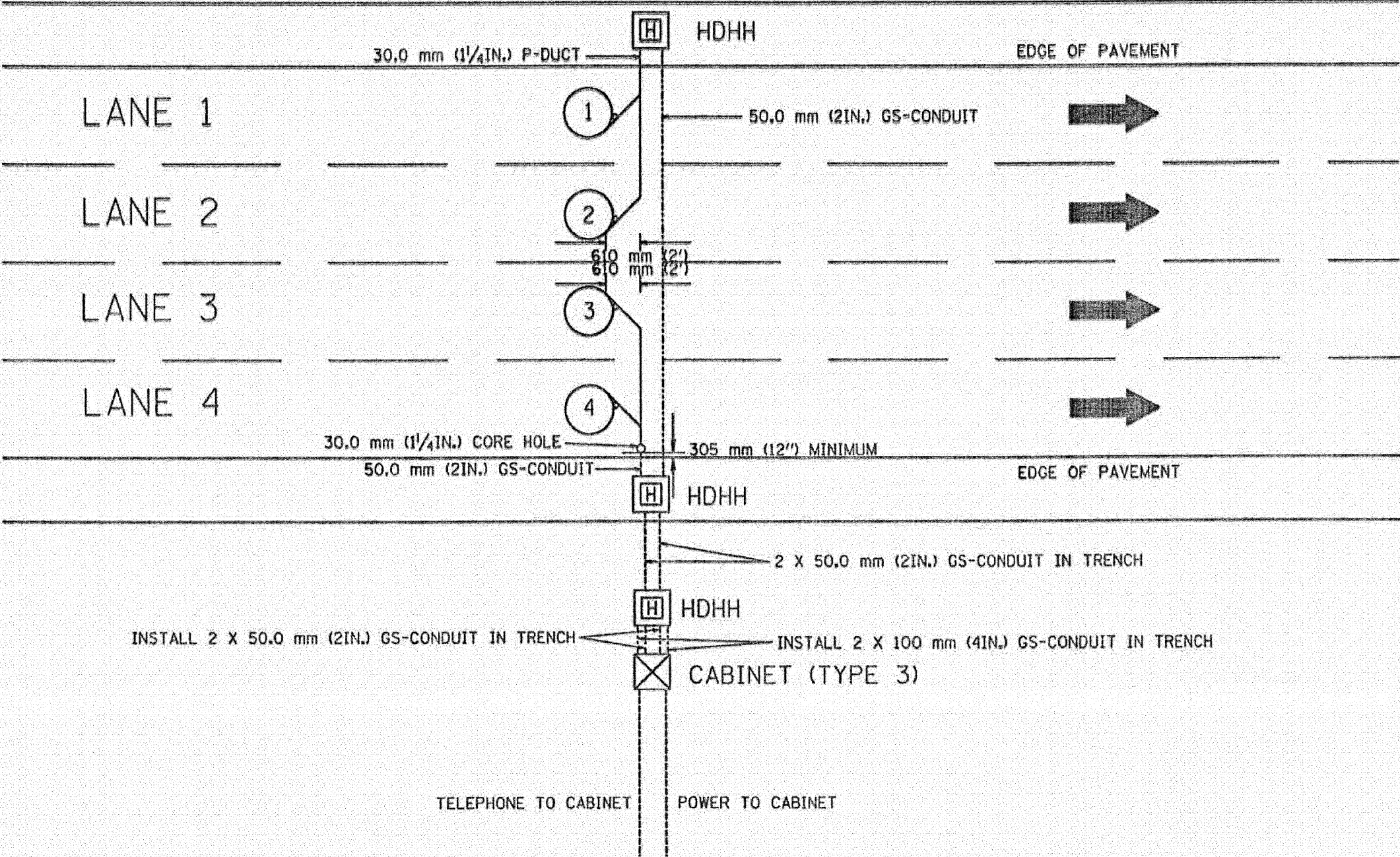
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(95-5-1, ETC, 1819-824) RS-1	WILL & COOK	80	65
D-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SHOULDER LOOP LEAD-IN TRANSITION DETAIL

REVISIONS	
NAME	DATE
R.L.	6/94
T.C.	11/95
R.L.	05/97
T.C.	10/98

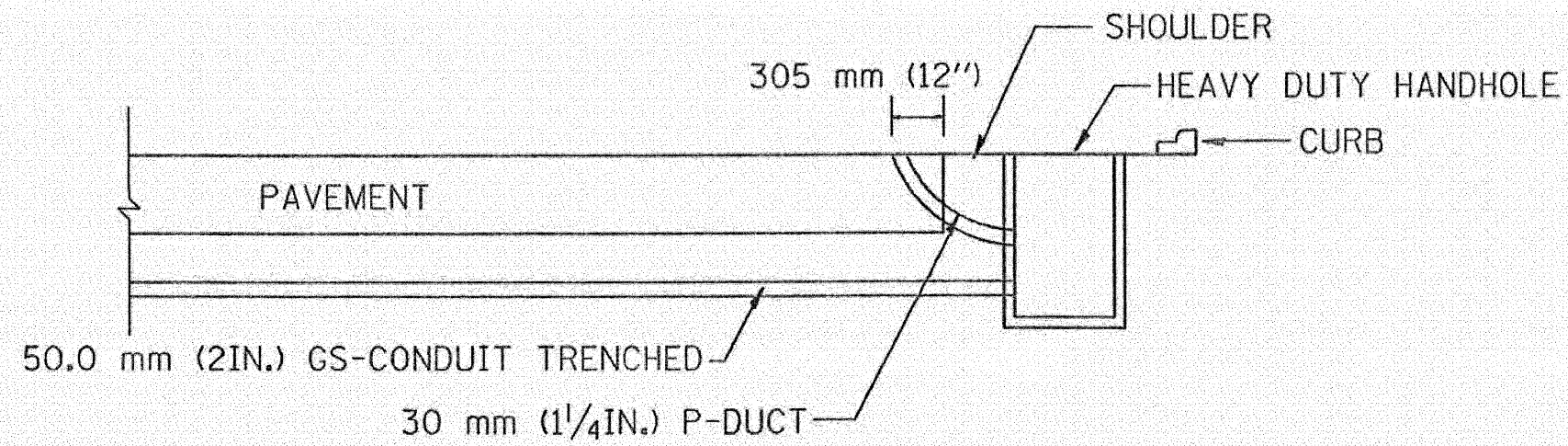
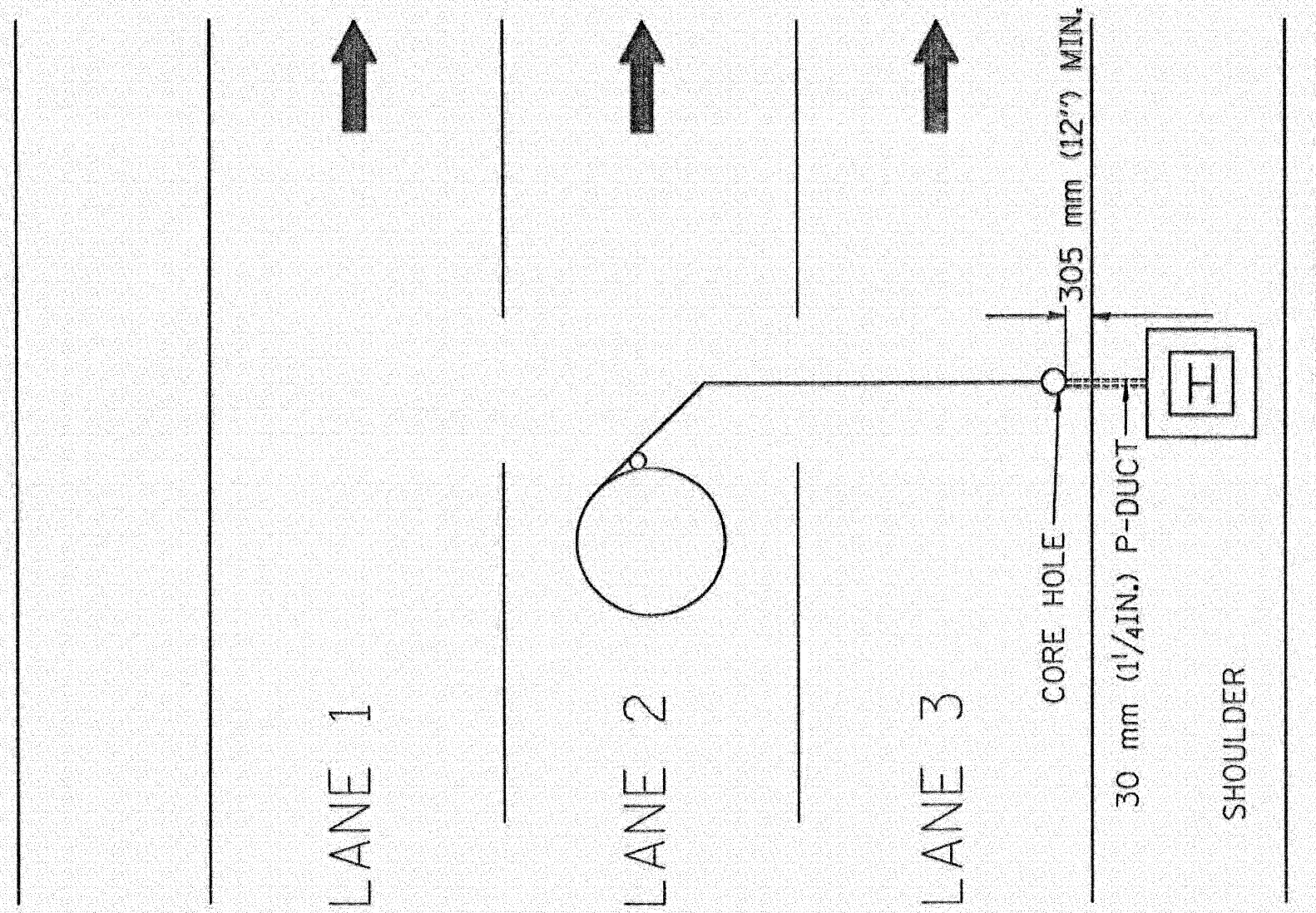
NOTE: ALL MAIN LINE LOOPS ARE ROUND 1.83 m DIA.



NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
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REVISIONS	
NAME	DATE
R.L.	6/94
R.L.	6/95
T.C.	11/95
T.C.	10/96



REVISIONS	
NAME	DATE
R.L.	05/96
T.C.	10/96

LONGO, INC.
CONSULTING ENGINEERS
1950 WALL ST., SUITE 202
NAPERVILLE, ILLINOIS 60563 PH 630/517-9100

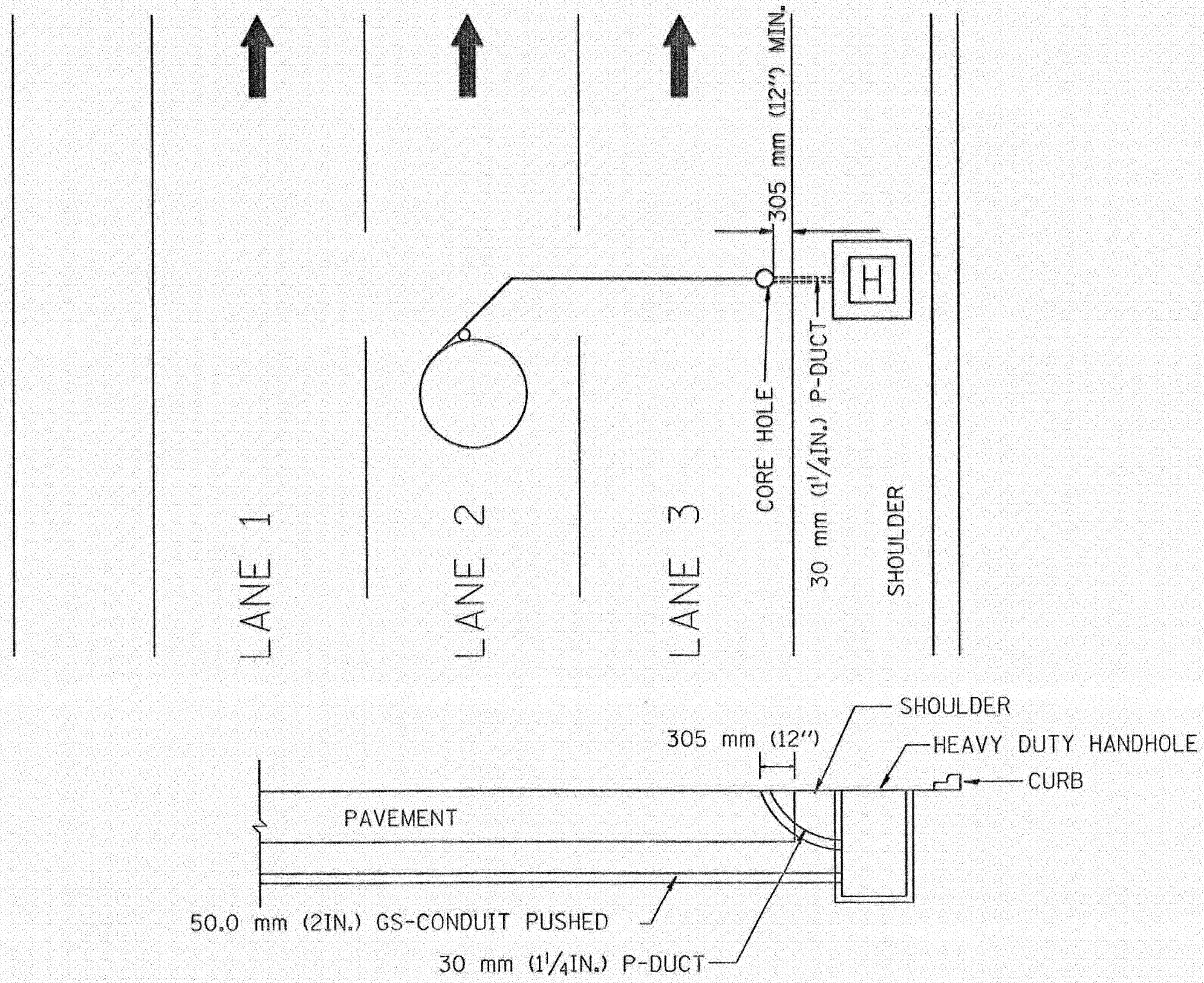
DESIGNED - MJY	REVISED -
DRAWN - ST	REVISED -
CHECKED - MJY	REVISED -
DATE - 07/08/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVE HOLE DUCT SYSTEM (#8)
I-80 (EAST OF 80th TO I-294)

SCALE: NONE SHEET NO. 8 OF 9 SHEETS STA. 81+61 TO STA. 422+00

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(95-5-1, ETC. 1819-824) RS-1	WILL & COOK	80	69
D-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE
R.L.	05/96
T.C.	10/96
J.G.	02/07

LONCO, INC.
CONSULTING ENGINEERS
1550 WALL ST, SUITE 202
NAPERVILLE, ILLINOIS 60563 PH 630/577-5100

DESIGNED - MJY
DRAWN - ST
CHECKED - MJY
DATE - 07/08/2009

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

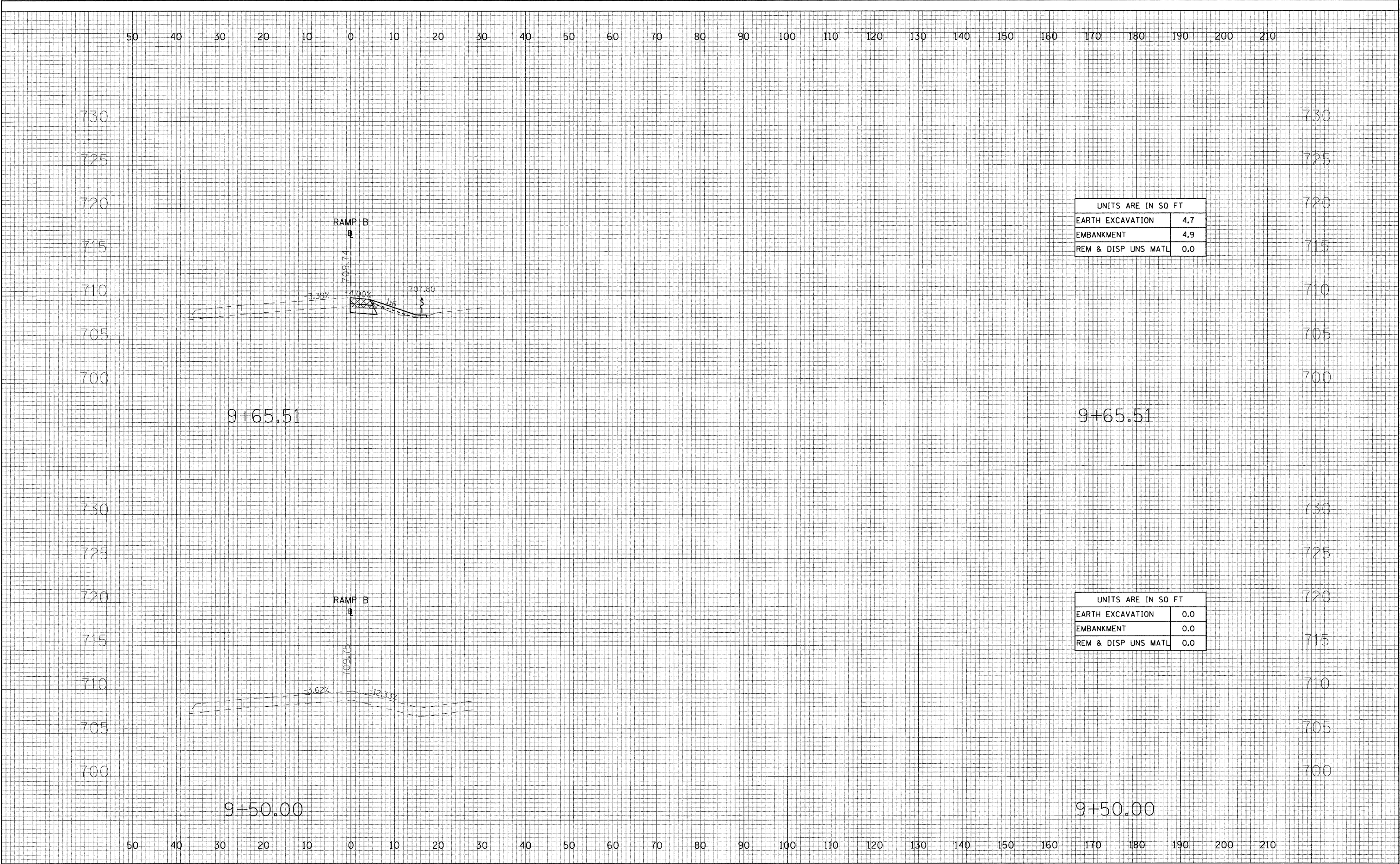
DIVE HOLE SYSTEM (#8A)
I-80 (EAST OF 80th TO I-294)

SCALE: NONE SHEET NO. 9 OF 9 SHEETS STA. 81+61 TO STA. 422+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(95-5-1, ETC, 1819-824) RS-1	WILL & COOK	80	70
D-91-145-09		CONTRACT NO. 60F61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

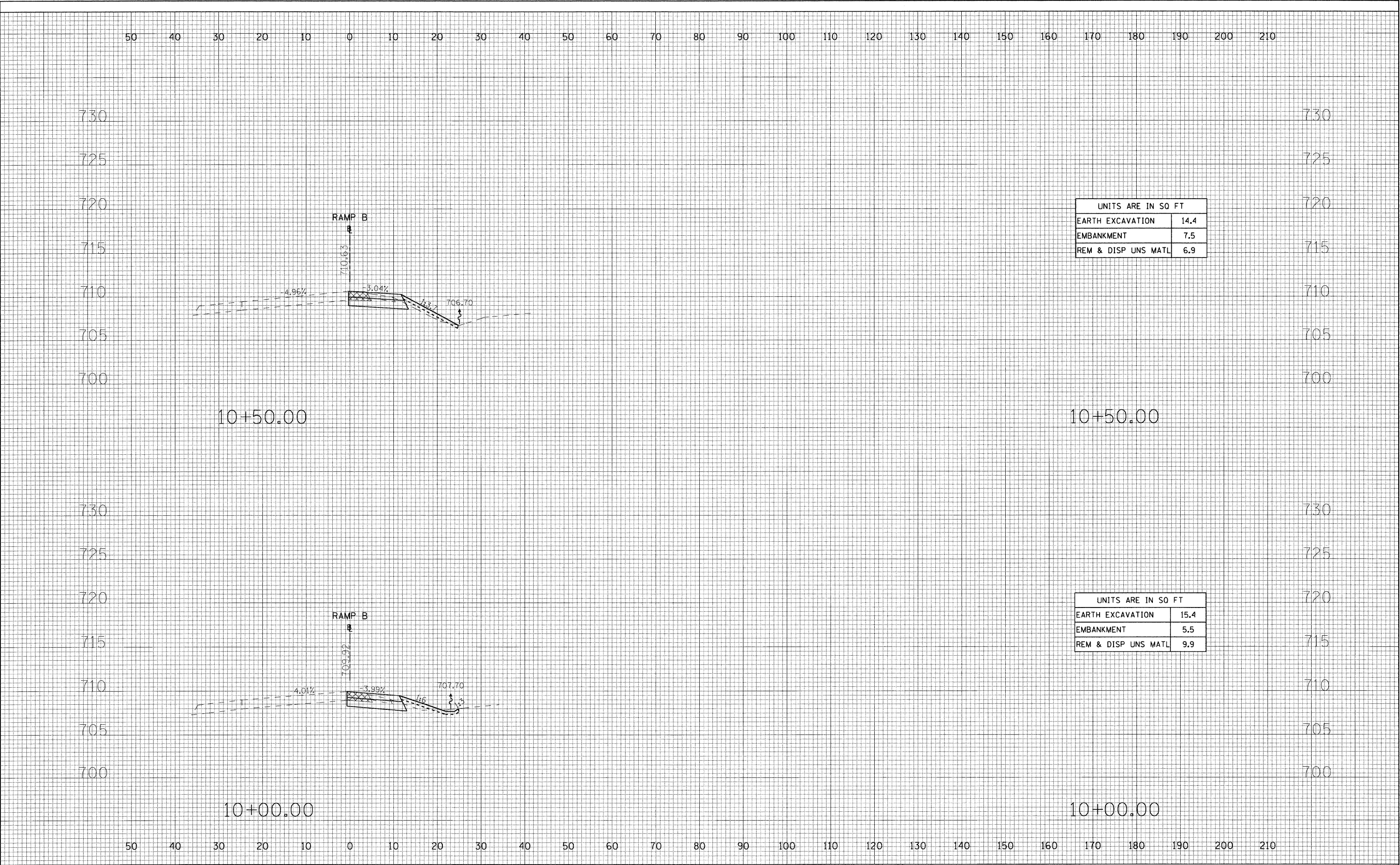
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	PLOTTED	BY
	TEMPLATE	
	NO.	
NO.		

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTTED	BY
	TEMPLATE	
	NO.	
NO.		



FINAL SURVEY	BY	DATE	SURVEYED	
			PLOTTED	
			TEMPLATE	
			NO. AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE	SURVEYED	
			PLOTTED	
			TEMPLATE	
			NO. AREAS CHECKED	

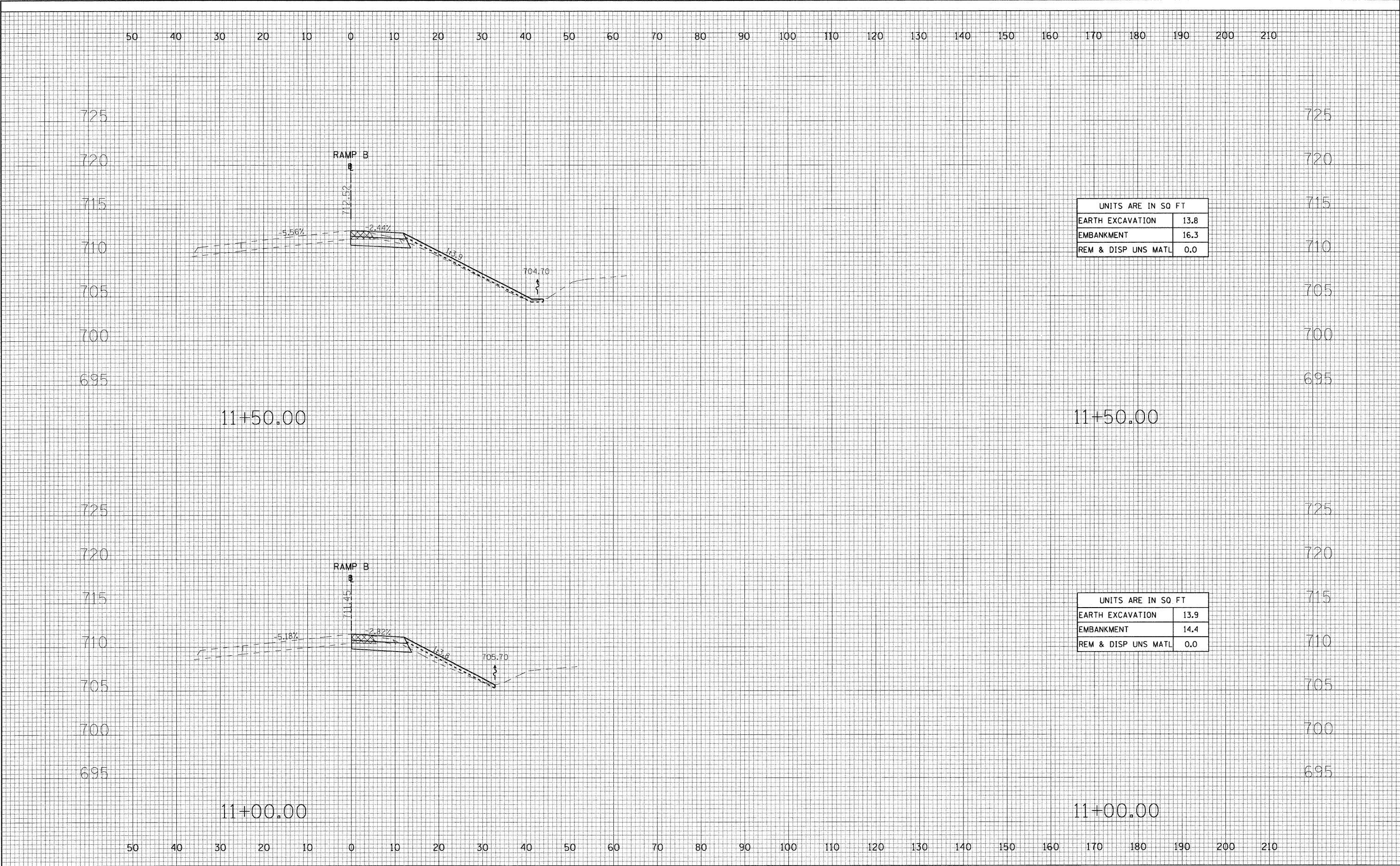


UNITS ARE IN SQ FT	
EARTH EXCAVATION	14.4
EMBANKMENT	7.5
REM & DISP UNS MATL	6.9

UNITS ARE IN SQ FT	
EARTH EXCAVATION	15.4
EMBANKMENT	5.5
REM & DISP UNS MATL	9.9

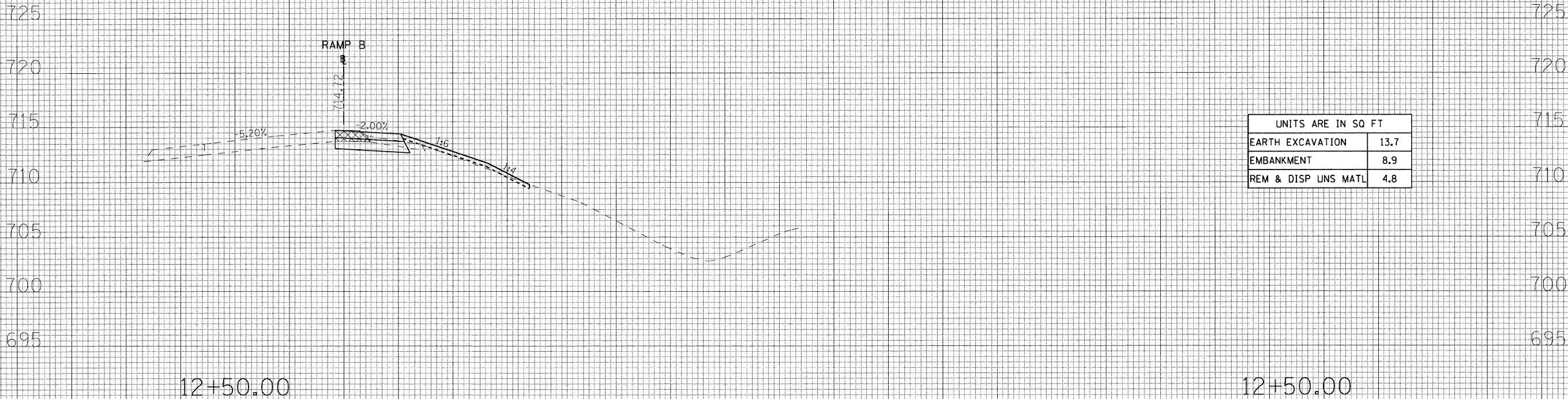
DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
FINAL SURVEY	NO.	NO.	NO.	NO.	NO.

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY	NO.	NO.	NO.	NO.	NO.

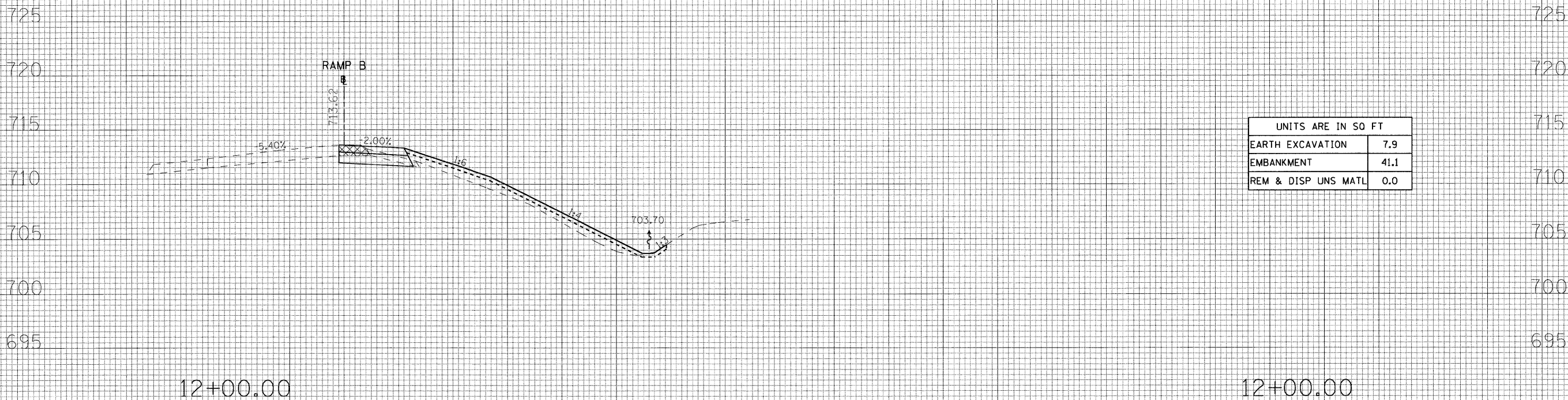


FINAL SURVEY	DATE
	BY
	SURVEYED
	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

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



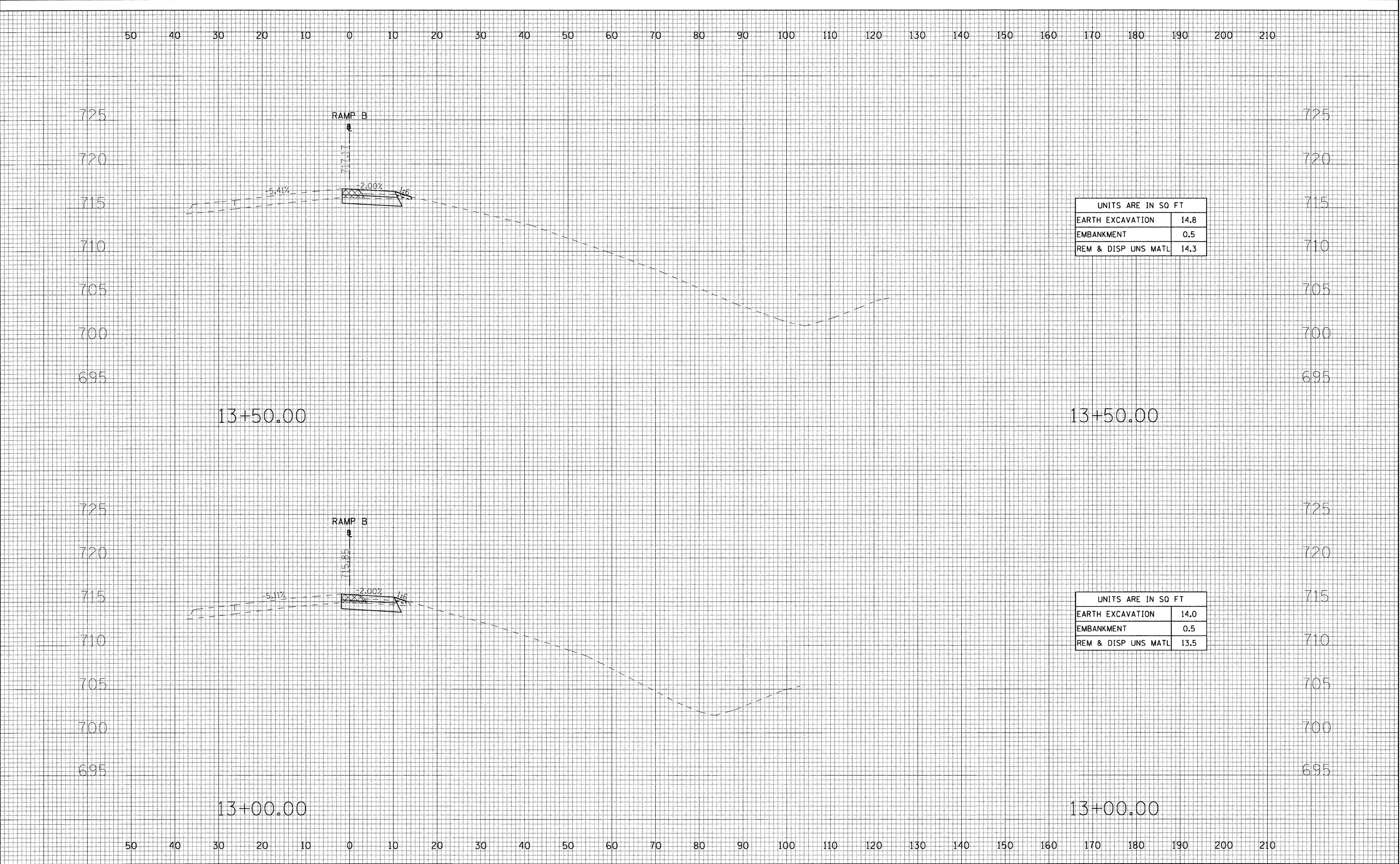
UNITS ARE IN SQ FT	
EARTH EXCAVATION	13.7
EMBANKMENT	8.9
REM & DISP UNS MATL	4.8



UNITS ARE IN SQ FT	
EARTH EXCAVATION	7.9
EMBANKMENT	41.1
REM & DISP UNS MATL	0.0

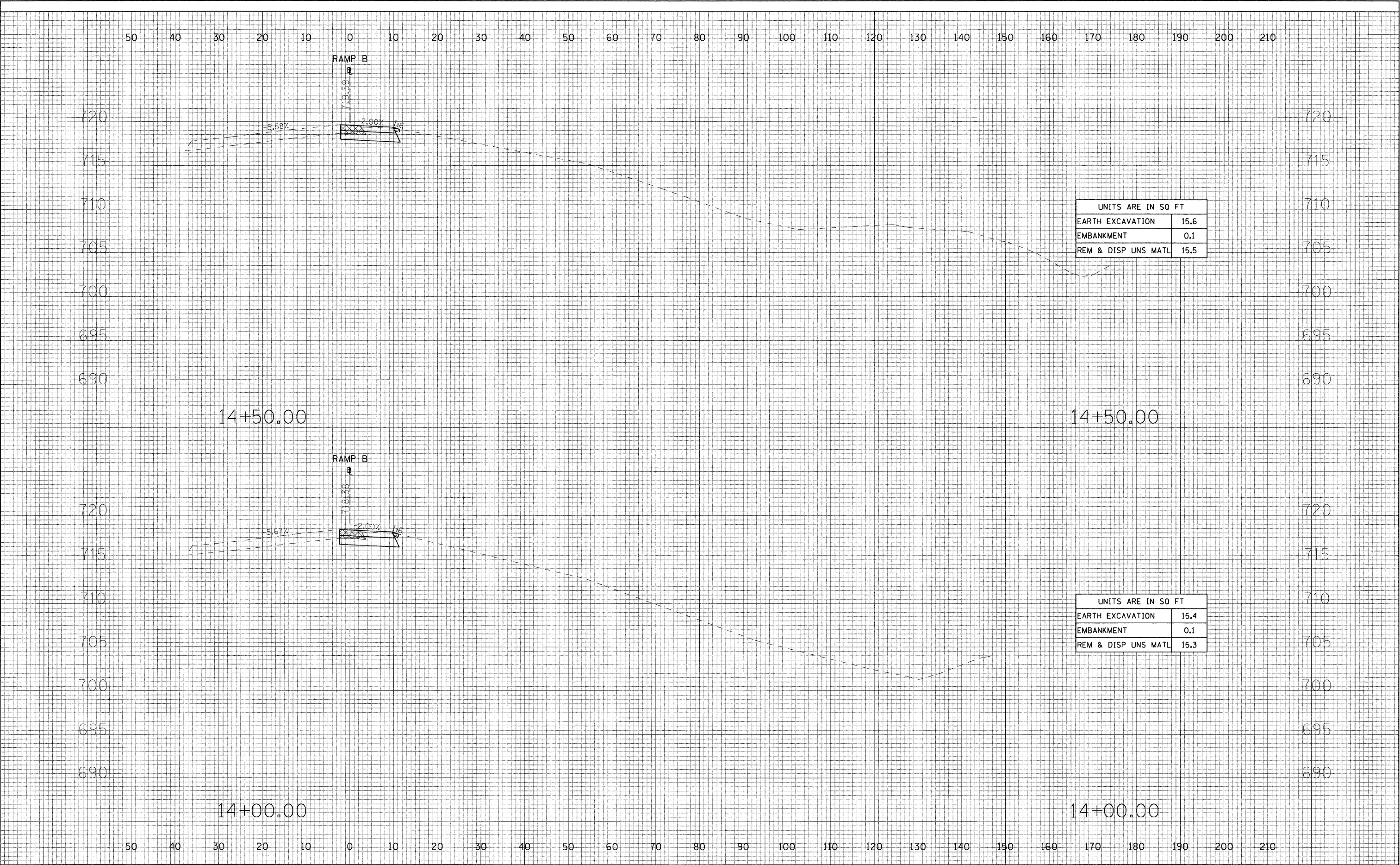
FINAL SURVEY	DATE
	BY
	SURVEYED
	NO.
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	NO.

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



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

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

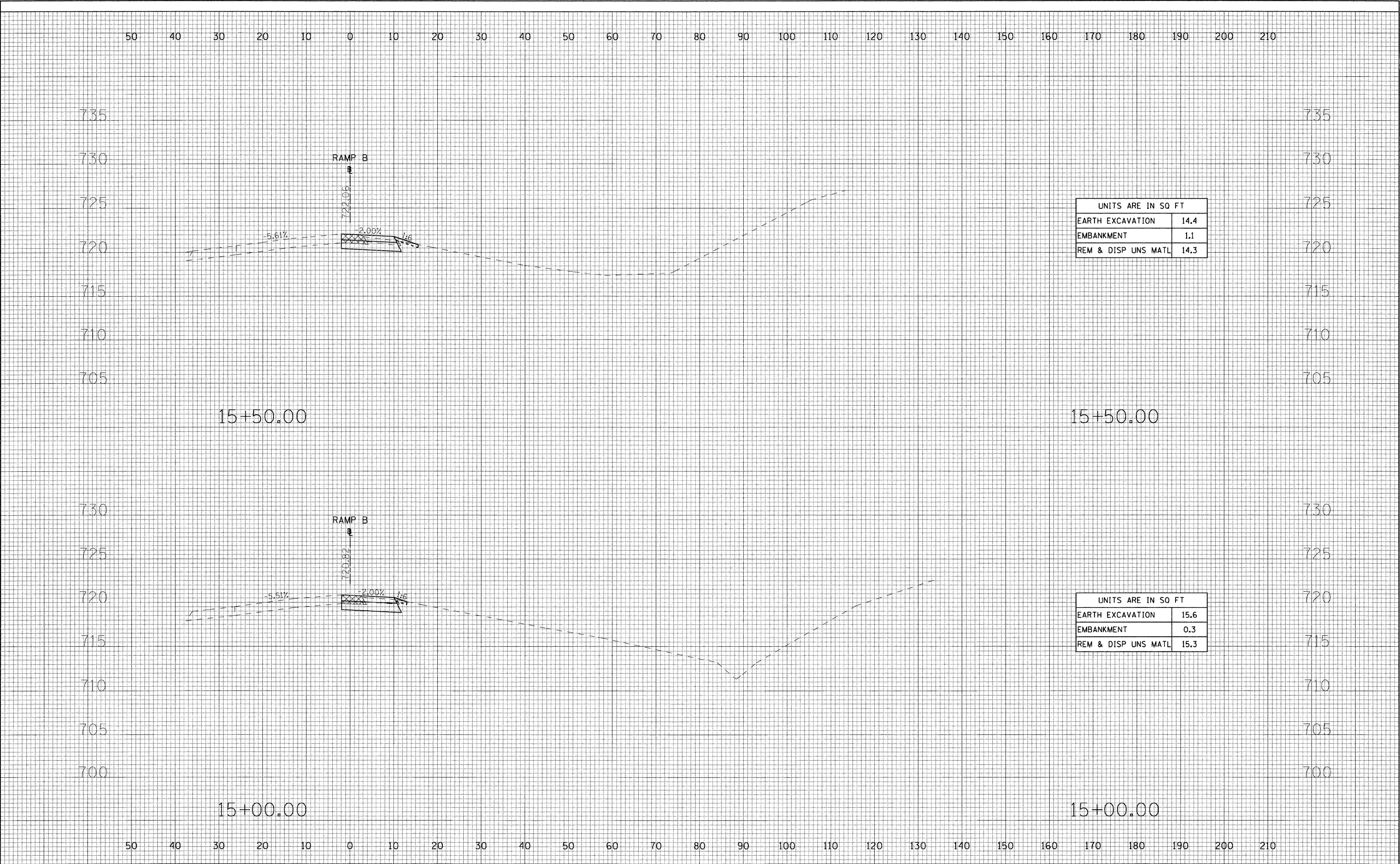


UNITS ARE IN SQ FT	
EARTH EXCAVATION	15.6
EMBANKMENT	0.1
REM & DISP UNS MATL	15.5

UNITS ARE IN SQ FT	
EARTH EXCAVATION	15.4
EMBANKMENT	0.1
REM & DISP UNS MATL	15.3

F.M.L. SURVEY NOTE BOOK NO.	BY	DATE	SURVEYED	_____
			PLOTTED	_____
			TEMPLATE	_____
			AREAS CHECKED	_____

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

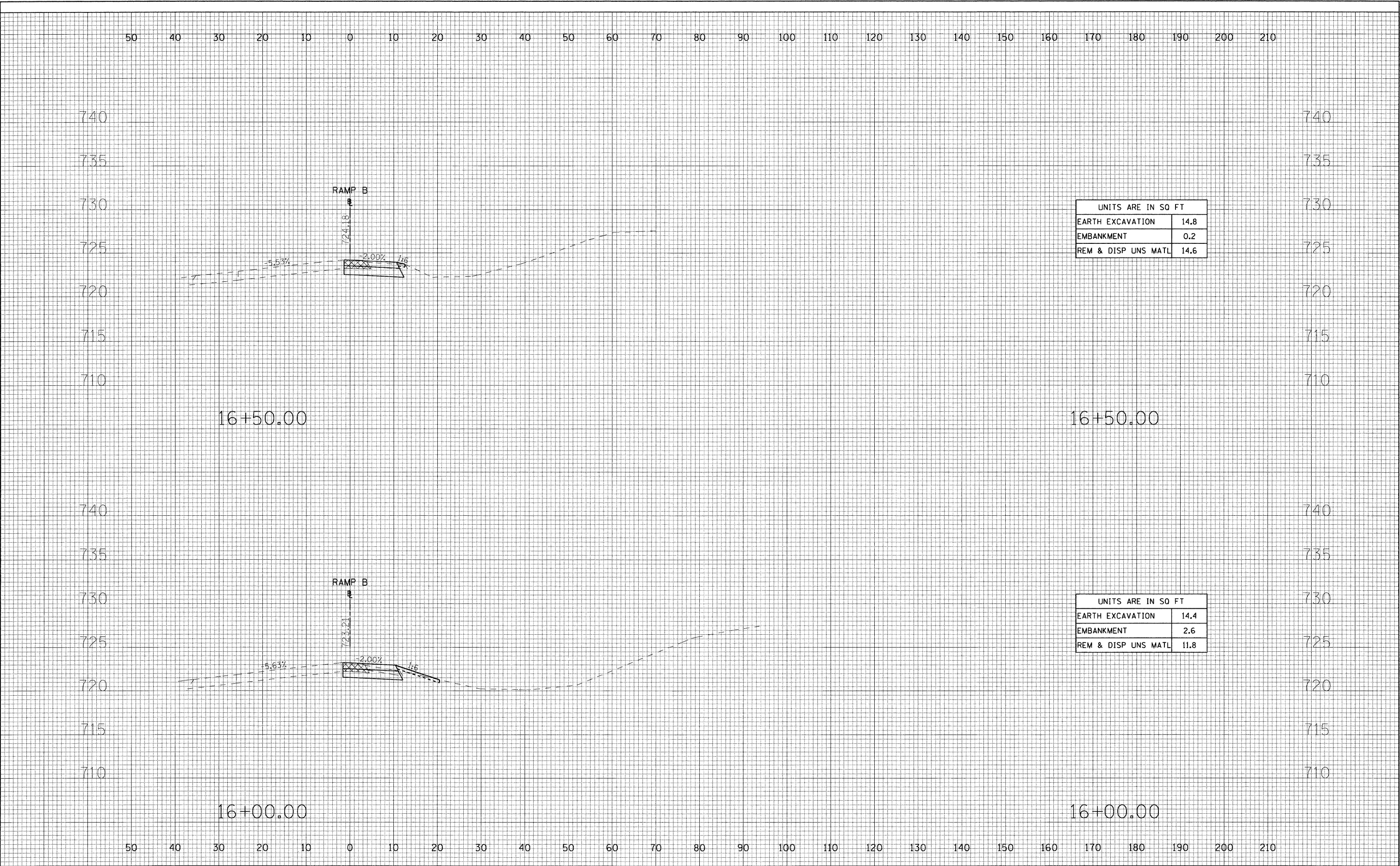


UNITS ARE IN SQ FT	
EARTH EXCAVATION	14.4
EMBANKMENT	1.1
REM & DISP UNS MATL	14.3

UNITS ARE IN SQ FT	
EARTH EXCAVATION	15.6
EMBANKMENT	0.3
REM & DISP UNS MATL	15.3

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

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



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

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

740

735

730

725

720

715

710

17+50.00

RAMP B

725.64

-6.29%

-1.71%

1:4.7

740

735

730

725

720

715

710

17+00.00

RAMP B

724.98

-5.76%

-2.00%

1:10.5

740

735

730

725

720

715

710

UNITS ARE IN SQ FT	
EARTH EXCAVATION	24.8
EMBANKMENT	0.0
REM & DISP UNS MATL	24.8

17+50.00

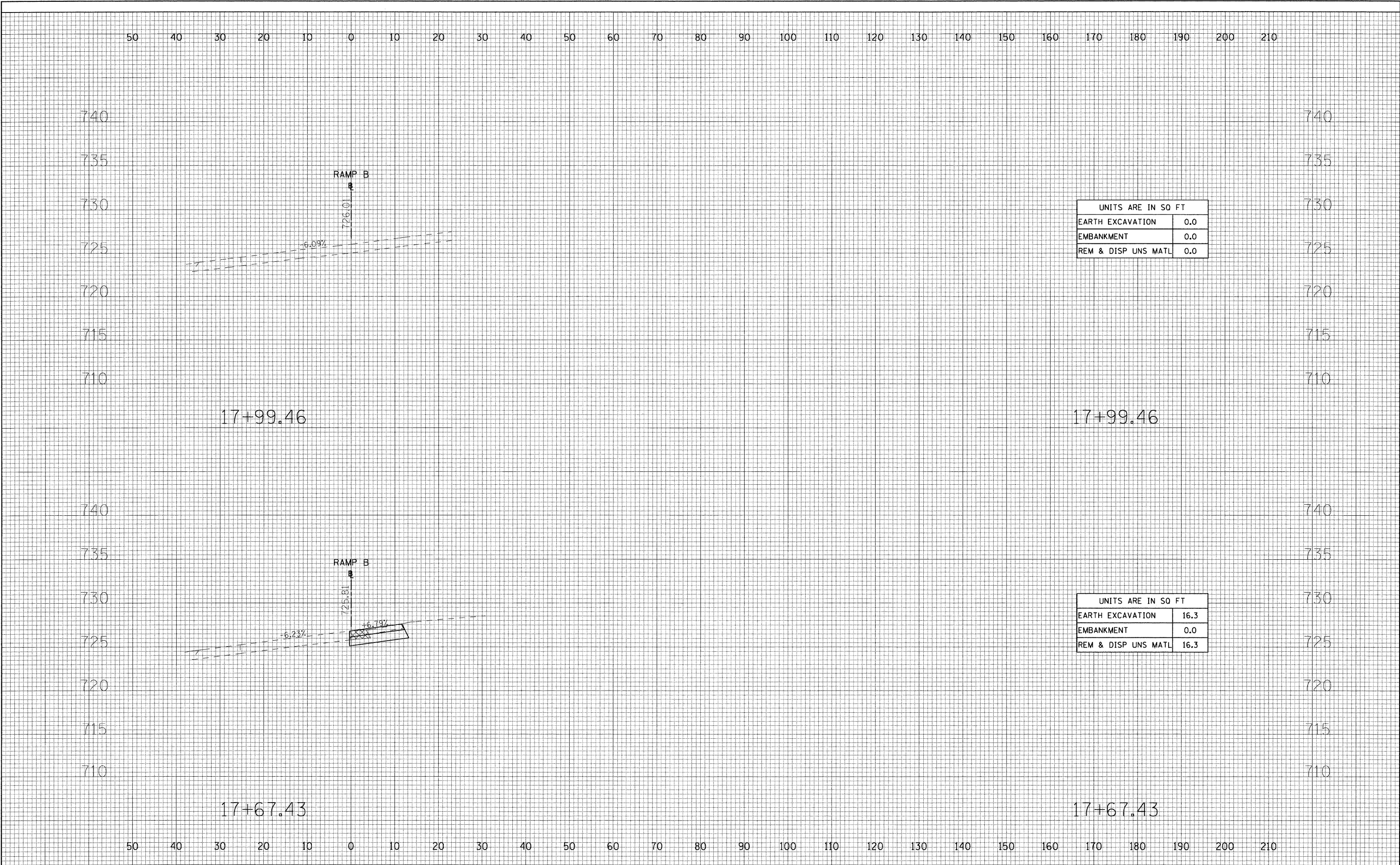
UNITS ARE IN SQ FT	
EARTH EXCAVATION	29.3
EMBANKMENT	0.0
REM & DISP UNS MATL	29.3

17+00.00

FILE NAME = #FILEL\$	USER NAME = #USER\$	DESIGNED - FML	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - FML	REVISED - ---		FAI-80 EASTBOUND TO FAI-57 NORTHBOUND RAMP B			80	0709-1027K-1	COOK	80	79
	PLOT SCALE = #SCALE\$	CHECKED - PBL	REVISED - ---								CONTRACT NO. 60F61	
	PLOT DATE = #DATE\$	DATE - 07/08/2009	REVISED - ---		SCALE:H1"=10',V1"=5'			SHEET NO. 9 OF 10 SHEETS		STA. 17+00.00 TO STA. 17+50.00		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

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

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



UNITS ARE IN SQ FT	
EARTH EXCAVATION	0.0
EMBANKMENT	0.0
REM & DISP UNS MATL	0.0

UNITS ARE IN SQ FT	
EARTH EXCAVATION	16.3
EMBANKMENT	0.0
REM & DISP UNS MATL	16.3