

**INDEX OF SHEETS** 06-16-2023 LETTING ITEM 137

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- 72 DISTRICT 5 DETAIL NO. 20070100 SURVEY MONUMENT COVER ASSEMBLY

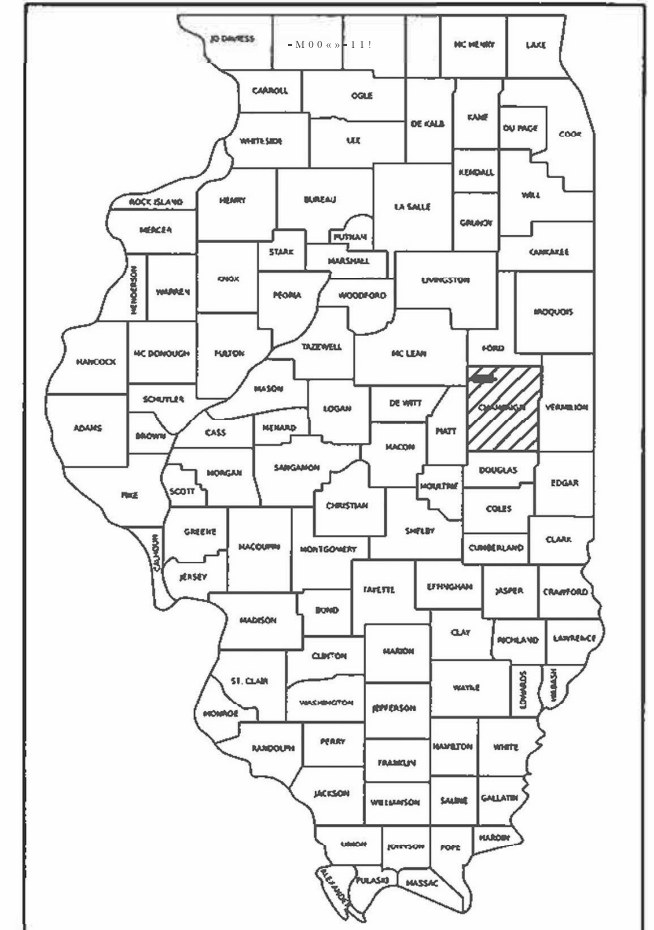
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

**FAP ROUTE 709 (US 136)  
SECTION (104)RS-2  
PROJECT STP-HBFP-BW4M(414)  
RESURFACING (3P), ADA IMPROVEMENTS, &  
CULVERT REPLACEMENT  
CHAMPAIGN COUNTY**

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	1

CONTRACT NO. 70A93  
D-95-048-14



LOCATION OF SECTION INDICATED THIS: - - -

**FUNCTIONAL CLASS: MINOR ARTERIAL**  
 LEG "A" • 2021 ADT = 1350  
 P.V.=86.7% S.U.=4.4% M.U.=8.9%  
 LEG "B" • 2021 ADT = 2750  
 P.V.=89.1% S.U.=3.6% M.U.=7.3%

LEG "A" IS FROM MCLEAN COUNTY LINE TO IL 47  
 LEG "B" IS FROM IL 47 TO THE ECL OF FISHER

**CULVERT REPLACEMENT  
SN 010-8064  
STA 1568+87.58**

C-95-048-14

**SN 010-8065  
STA 1647+55.00**

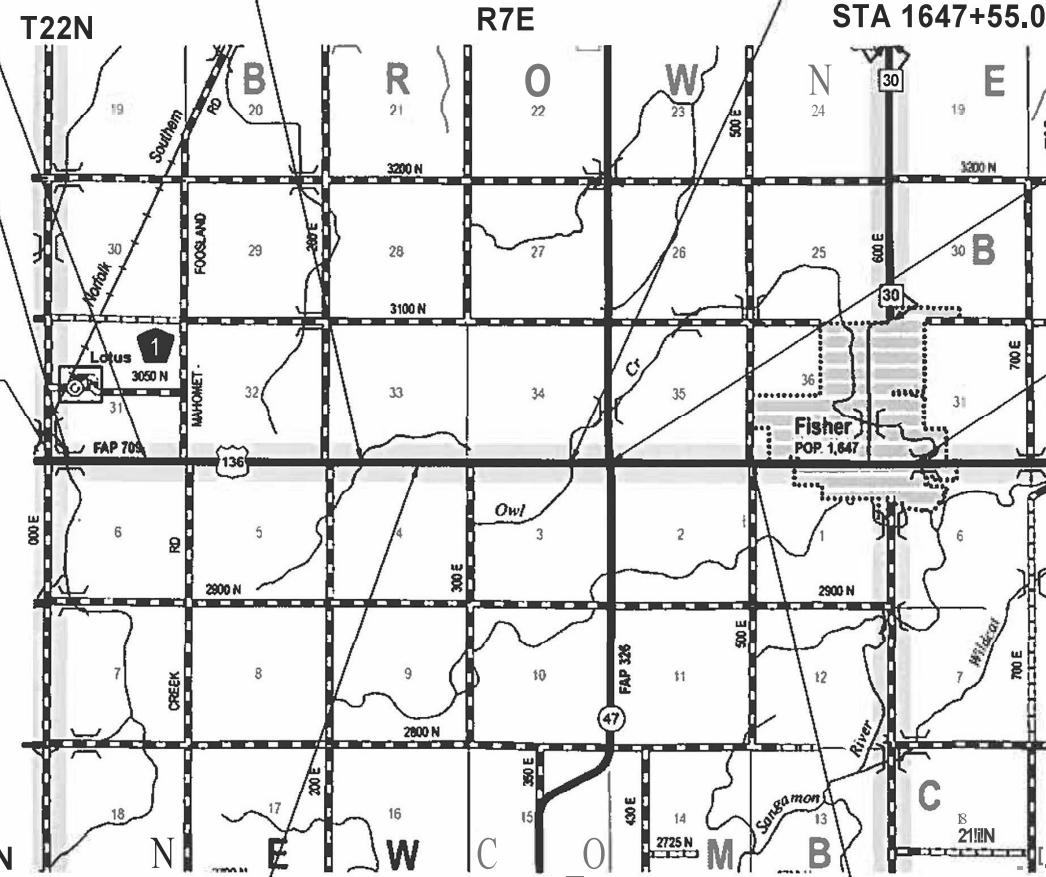
**STATION EQUATION  
STA 1479+00 (BK) =  
STA 1479+04.77 (AH)**

**BRIDGE OMISSION  
SN 010..0058  
STA 1457+85.24 TO  
STA 1458+28.24**

**BEGIN PROJECT  
STA 1450+73.08**

**RESURFACING  
OMISSION  
STA 1651+30.00 TO  
STA 1673+70.00**

**END PROJECT  
STA 1779+18.17**

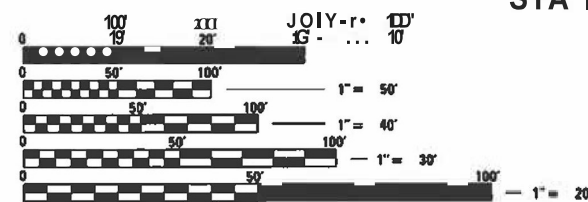


**STATION EQUATION  
STA 1594+92.00 (BK)=  
STA 1595+00.00 (AH)**

GROSS LENGTH = 32,829.14 FT. = 6.218 MILE  
NET LENGTH = 30,546.14 FT. = 5.785 MILE

PROJECT LOCATED WITHIN FISHER TOWNSHIP

**STATION EQUATION  
STA 1732+46.82 (BK)=  
STA 1732+50.00 (AH)**

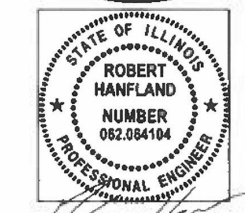


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
**OR811**

**PROJECT ENGINEER JASON STULTS, P.E.  
PROJECT MANAGER DAVID JAYME, P.E.  
(217) 46M181**

**CONTRACT NO. 70A93**



ROBERT HANFLAND, PE  
STATE OF ILLINOIS NO. 062-064104  
EXPIRES 11-3 2023

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3/15 2023  
*Yensil A. Barnett*  
 REGIONAL ENGINEER

May 12, 2023  
*John A. Etkin*  
 ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023  
*Steph M. Smith*  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604036-03	GRATE TYPE 8
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" AWAY FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

## STRUCTURE INFORMATION

BASED ON STRUCTURAL ANALYSIS, THE FOLLOWING STRUCTURES CAN BE  
CROSSED WITH AN EMPTY MATERIAL TRANSFER DEVICE:

010-0058  
010-8064  
010-8065

## GENERAL NOTES

G.N. -100A  
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD  
FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN  
VERTICAL DATUM OF 1988. (NAVD 88)

G.N. -406H  
MIXTURE REQUIREMENTS  
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION	US 136	US 136	US 136	US 136
MIXTURE USE	SURFACE	BINDER 9.5 FG	CLASS D & P.D. PATCH / BASE COURSE WIDENING	INCIDENTAL & SHOULDER - 2-3/4"
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ NDES=50	4.0% @ NDES=50	4.0% @ NDES=50	4.0% @ NDES=50
MIX COMP (GRADATION)	1L 9.5	1L 9.5 FG	1L 19.0	1L 9.5
FRICTION AGGREGATE	MIX C	N.A.	N.A.	MIX C
MIXTURE WEIGHT	112	112	112	112
QUALITY MANAGEMENT PROGRAM	QCP	QCP	QC/QA	QC/QA
SUBLOT SIZE	1000	1000	N.A.	N.A.

G.N. 406S  
PROJECT POSTED SPEED LIMITS  
THE FOLLOWING TABLE IS A LISTING OF POSTED SPEED LIMITS WITHIN THE PROJECT LIMITS.  
THE ENGINEER SHALL FIELD VERIFY THESE LIMITS:

STATION	TO	STATION	POSTED SPEED LIMIT (MPH)
1450+73		1736+28	55
1736+28		1765+92	35
1765+92		1776+86	40
1776+86		1779+18	50

G.N.-440B  
THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND EXISTING  
MEDIANS, GUTTERS AND/OR COMBINATION CURB AND GUTTERS THAT ARE FOUND  
SUITABLE FOR REUSE SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED  
INTO THE NEW CONSTRUCTION. ANY EXISTING TIE BARS THAT ARE FOUND  
UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO  
EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE  
OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE THE LIMITS OF THE  
RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD  
SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED  
INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL  
COMPENSATION WILL BE ALLOWED.

G.N.- 703A  
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER  
ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS  
(TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE  
COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL  
COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT  
MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE  
EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER  
STATION).

G.N. -781  
THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE  
RAISED REFLECTIVE PAVEMENT MARKERS.

## COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & HIGHWAY STANDARDS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	2
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

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	DRAWN - LCS	REVISED -
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PLOT DATE = 2/27/2023	DATE -	REVISED -

FAP 709 (US 136)	FAP 709 (US 136)
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	MINOR ARTERIAL 1568+87.58
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
80% FED / 20% STATE	80% FED / 20% STATE
RURAL ROADWAY	RURAL BOX CULVERT
0005	0004
	010-8175

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
20200100	EARTH EXCAVATION	CU YD	6	6	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	38		38
20700110	POROUS GRANULAR EMBANKMENT	TON	217		217
21301060	EXPLORATION TRENCH 60" DEPTH	FOOT	50		50
25000100	SEEDING, CLASS 1	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23	
25100115	MULCH, METHOD 2	ACRE	0.25	0.25	
28100101	STONE RIPRAP, CLASS A1	SQ YD	43		43
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	32		32
28200200	FILTER FABRIC	SQ YD	34		34
35400542	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 15 1/2"	SQ YD	3	3	
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	171		171

^ SPECIALTY ITEM

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PLOT DATE = 3/17/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
SCALE:	SHEET 1	OF 8 SHEETS	STA. TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 3
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

FAP 709 (US 136)	FAP 709 (US 136)
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	MINOR ARTERIAL 1568+87.58
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
80% FED / 20% STATE	80% FED / 20% STATE
RURAL	RURAL
ROADWAY	BOX CULVERT
0005	0004
	010-8175

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	63,784	63,784	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	30,546	30,546	
40600990	TEMPORARY RAMP	SQ YD	234	234	
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	6,167	6,167	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	7,435	7,435	
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,724	2,724	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	450	450	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,654	1,654	
* 42400800	DETECTABLE WARNINGS	SQ FT	135	135	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2,014	2,014	
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	86,184	86,184	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	597	597	
44000600	SIDEWALK REMOVAL	SQ FT	1,605	1,605	
44003100	MEDIAN REMOVAL	SQ FT	30	30	

\* SPECIALTY ITEM

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PLOT DATE = 3/16/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 4
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	

FAP 709 (US 136)	FAP 709 (US 136)
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	MINOR ARTERIAL 1568+87.58
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
80% FED / 20% STATE	80% FED / 20% STATE
RURAL ROADWAY	RURAL BOX CULVERT
0005	0004
	010-8175

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
44201421	CLASS C PATCHES, TYPE IV, 15 INCH	SQ YD	121		121
44201823	CLASS D PATCHES, TYPE I, 15 INCH	SQ YD	441	441	
44201827	CLASS D PATCHES, TYPE II, 15 INCH	SQ YD	265	265	
44201831	CLASS D PATCHES, TYPE III, 15 INCH	SQ YD	88	88	
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SQ YD	88	88	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	771	771	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	15	15	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	188		188
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2
54011204	PRECAST CONCRETE BOX CULVERTS 12' X 4'	FOOT	36		36
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	78		78
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	82		82

^ SPECIALTY ITEM

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PLOT DATE = 3/16/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 5
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	

FAP 709 (US 136)	FAP 709 (US 136)
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	MINOR ARTERIAL 1568+87.58
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
80% FED / 20% STATE	80% FED / 20% STATE
RURAL ROADWAY	RURAL BOX CULVERT
0005	0004
	010-8175

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2		2
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
60260100	INLETS TO BE ADJUSTED	EACH	7	7	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2	2	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	601	601	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	675	675	
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	175	175	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	12	
63200310	GUARDRAIL REMOVAL	FOOT	1,490	1,490	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	

\* SPECIALTY ITEM

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PLOT DATE = 3/16/2023	CHECKED - RLH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 6
				CONTRACT NO. 70A93
		ILLINOIS FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	FAP 709 (US 136)	
				MINOR ARTERIAL 1450+73.08 TO 1779+18.17 CHAMPAIGN COUNTY 80% FED / 20% STATE RURAL ROADWAY 0005	MINOR ARTERIAL 1568+87.58 CHAMPAIGN COUNTY 80% FED / 20% STATE RURAL BOX CULVERT 0004 010-8175
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102642	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	EACH	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6		6
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8,340	8,340	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	927	927	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	72,201	72,201	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	484	484	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	132	132	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	71	71	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	250		250
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	15		15

^ SPECIALTY ITEM



USER NAME = rhanfland	DESIGNED - LCS	REVISED -
	DRAWN - LCS	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED - RLH	REVISED -
PLOT DATE = 3/17/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
SCALE:	SHEET 5	OF 8 SHEETS	STA. TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 7
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

FAP 709 (US 136)	FAP 709 (US 136)
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	MINOR ARTERIAL 1568+87.58
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
80% FED / 20% STATE	80% FED / 20% STATE
RURAL	RURAL
ROADWAY	BOX CULVERT
0005	0004
	010-8175

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	250		250
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	12	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	484	484	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	132	132	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	71	71	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	72,201	72,201	
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	484	484	
* 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	132	132	
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	71	71	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	381	381	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	26	26	

\* SPECIALTY ITEM

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PLOT DATE = 3/16/2023	CHECKED - RLH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 8
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	



FAP 709 (US 136)	FAP 709 (US 136)
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	MINOR ARTERIAL 1568+87.58
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
80% FED / 20% STATE	80% FED / 20% STATE
RURAL ROADWAY	RURAL BOX CULVERT
0005	0004
	010-8175

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	381	381	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	24,583	24,583	
85820200	FLASHER CONTROLLER, SPECIAL	EACH	1	1	
^ 87200400	SPAN WIRE	FOOT	200	200	
^ 87200500	TETHER WIRE	FOOT	200	200	
^ 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5	5	
^ 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	60	60	
^ 88000105	FLASHING BEACON INSTALLATION	EACH	1	1	
^ 88030018	SIGNAL HEAD, LED, 2-FACE, 1-SECTION, SPAN WIRE MOUNTED	EACH	4	4	
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1	1	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	82		82
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	3,782	3,782	
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1		1
^ X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1	1	

^ SPECIALTY ITEM

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PLOT DATE = 3/16/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
SCALE:	SHEET 7	OF 8	SHEETS
	STA.		TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 9
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

FAP 709 (US 136)	
MINOR ARTERIAL 1450+73.08 TO 1779+18.17	
CHAMPAIGN COUNTY	
80% FED / 20% STATE	
RURAL	
ROADWAY	
0005	
FAP 709 (US 136)	
MINOR ARTERIAL 1568+87.58	
CHAMPAIGN COUNTY	
80% FED / 20% STATE	
RURAL	
BOX CULVERT	
0004	
010-8175	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
^ X8302140	TRAFFIC SIGNAL WOOD POLE, 40 FT, CLASS 4	EACH	2	2	
^ XZ193400	SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	9	9	
Z0010900	COLD MILLING (SPECIAL)	FOOT	607	607	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
^ Z0038700	PERMANENT BENCH MARKS	EACH	1		1
^ Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	1	1	
^ Z0070202	SURVEY MARKER VAULT	EACH	18	18	

^ SPECIALTY ITEM

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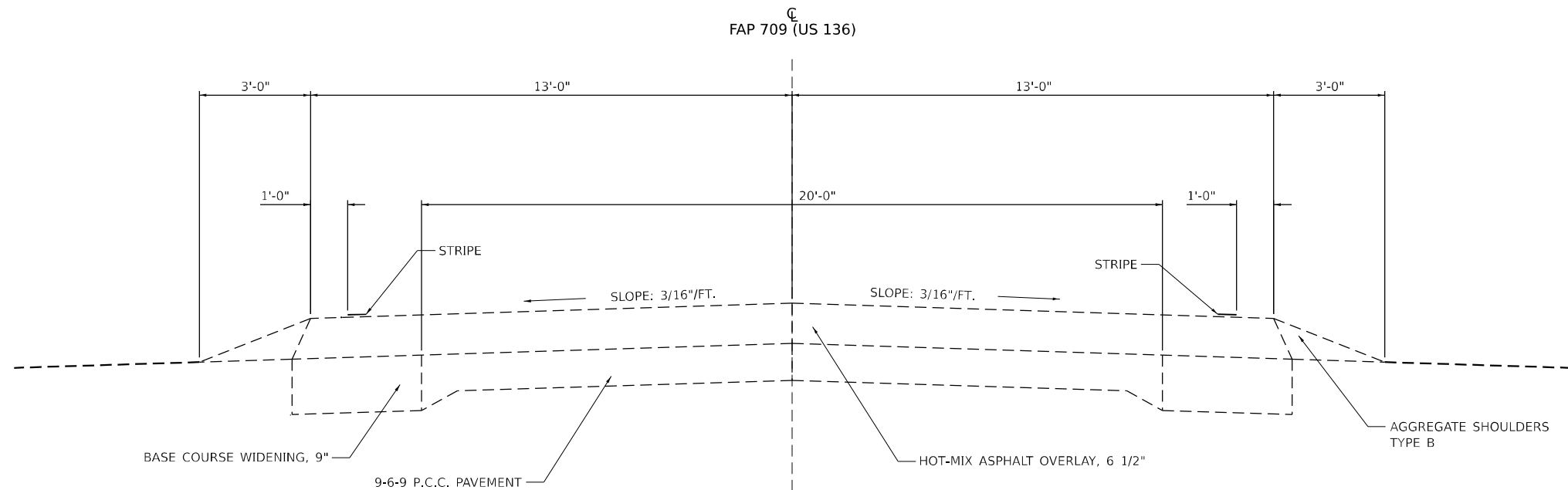


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PLOT SCALE = 0.16666633 ' / in.	DATE -	REVISED -
PLOT DATE = 3/17/2023		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 8	OF 8 SHEETS	STA. TO STA.

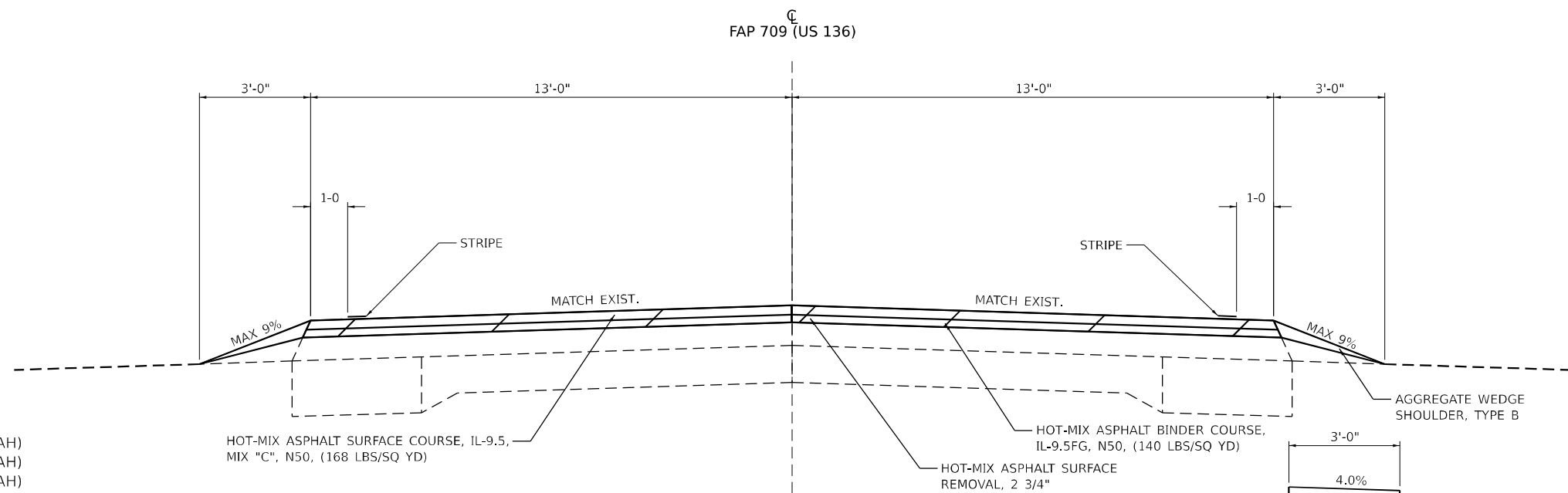
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	10
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTIONS**

STA. 1450+29.50 TO STA. 1457+85.24 OMISSION: SN 010-0058  
 STA. 1458+28.24 TO STA. 1479+00.00 (BK)  
 STA. 1479+04.77 (AH) TO STA. 1594+92.00 (BK)  
 STA. 1595+00.00 (AH) TO STA. 1650+00.00  
 STA. 1674+00.00 TO STA. 1732+46.82 (BK)  
 LT. STA. 1732+50.00 (AH) TO STA. 1743+02.00 LT.  
 RT. STA. 1732+50.00 (AH) TO STA. 1741+58.00 RT.

HMA SURFACE REMOVAL, 2 1/2"



**PROPOSED TYPICAL SECTIONS ①**

STA. 1450+73.08 TO STA. 1457+85.24 OMISSION: SN 010-0058  
 STA. 1458+28.24 TO STA. 1479+00.00 (BK)  
 STA. 1479+04.77 (AH) TO STA. 1594+92.00 (BK)  
 STA. 1595+00.00 (AH) TO STA. 1650+00.00  
 STA. 1674+00.00 TO STA. 1732+46.82 (BK)  
 LT. STA. 1732+50.00 (AH) TO STA. 1743+02.00 LT.  
 RT. STA. 1732+50.00 (AH) TO STA. 1741+58.00 RT.

**STATION EQUATIONS:**

STA. 1479+00.00(BK) = STA. 1479+04.77(AH)  
 STA. 1594+92.00(BK) = STA. 1595+00.00(AH)  
 STA. 1732+46.82(BK) = STA. 1732+50.00(AH)

SN 010-0058 (OMISSION) 1 SPAN PSC CONCRETE DECK BEAMS  
 STA. 1457+85.24 TO STA. 1458+28.24

CONTRACT 70844 (OMISSION)  
 STA. 1651+30.00 TO STA. 1673+70.00

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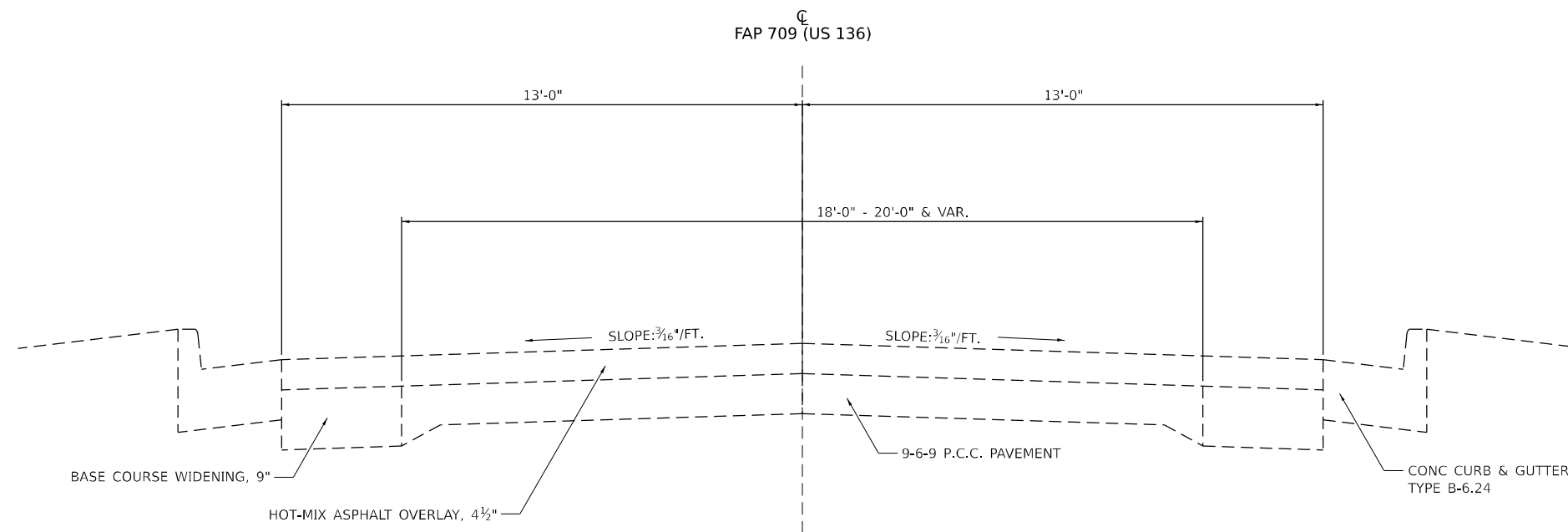
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PLOT DATE =	2/27/2023	DATE -		REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

SCALE: SHEET 1 OF 5 SHEETS STA. 1450+29.50 TO STA. 1741+58.00

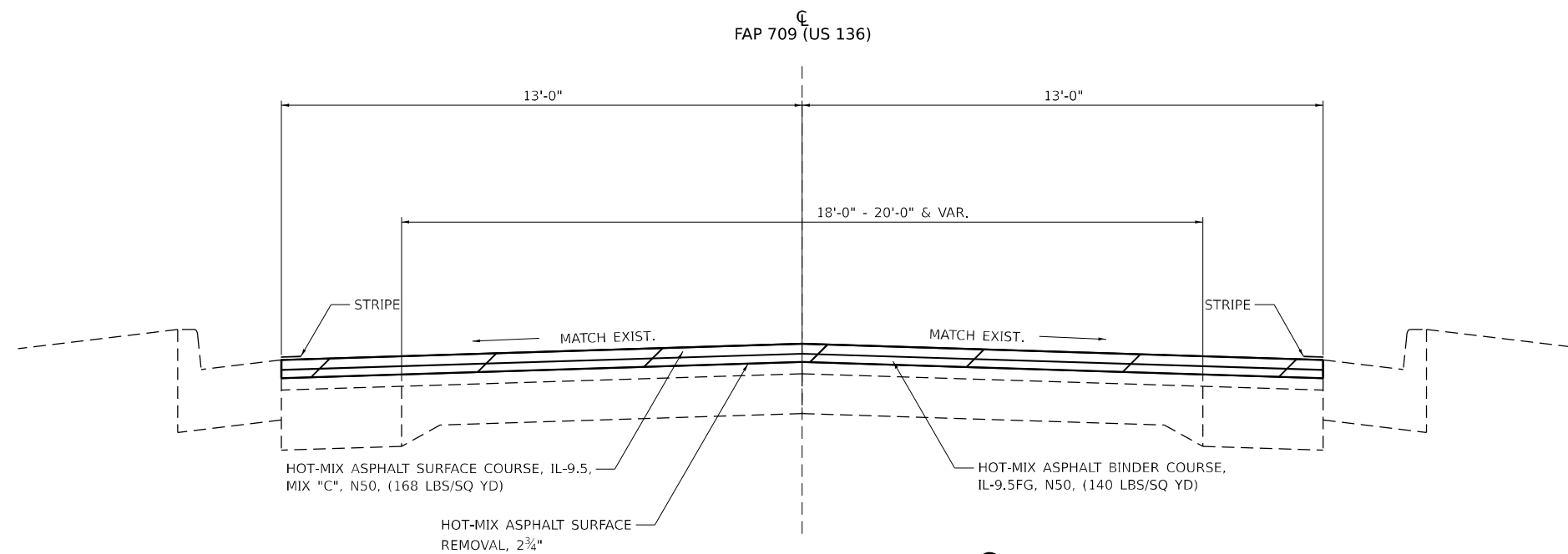
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	11
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTIONS**

RT STA. 1741+58.00 TO STA. 1772+00.00  
 LT STA. 1743+02.00 TO STA. 1772+00.00

 HMA SURFACE REMOVAL, 2 1/2"



**PROPOSED TYPICAL SECTIONS 2**

RT STA. 1741+58.00 TO STA. 1772+00.00  
 LT STA. 1743+02.00 TO STA. 1772+00.00

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	DRAWN - LCS	REVISED -
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PLOT DATE = 2/27/2023	DATE -	REVISED -

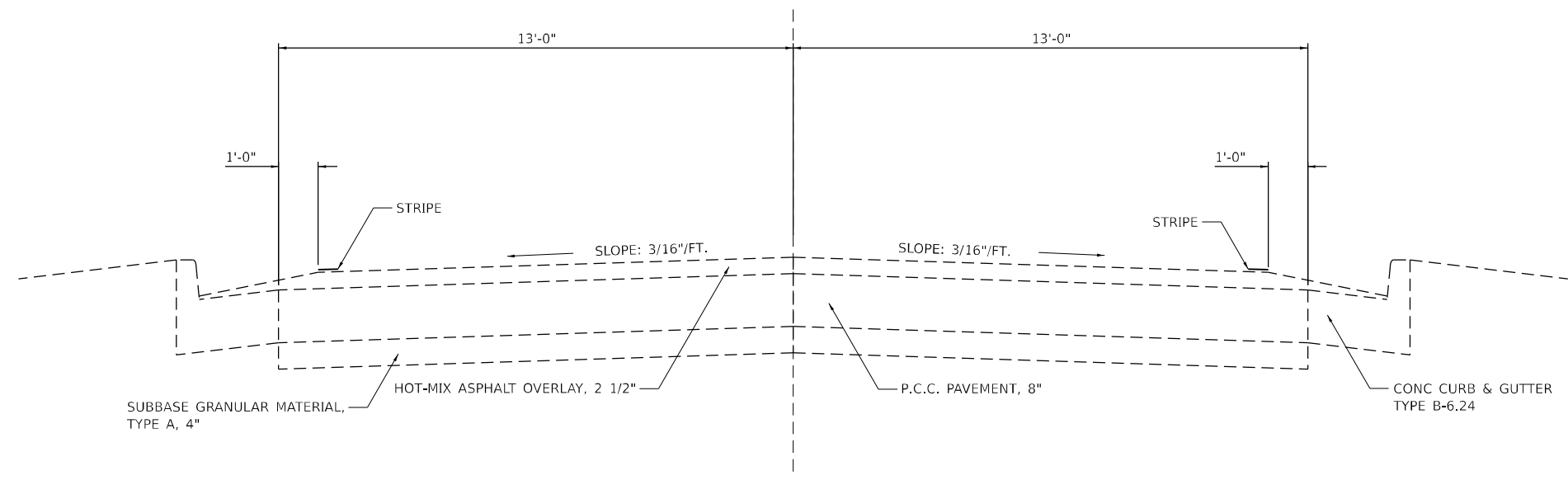
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET 2 OF 5 SHEETS STA. 1741+58.00 TO STA. 1772+00.00

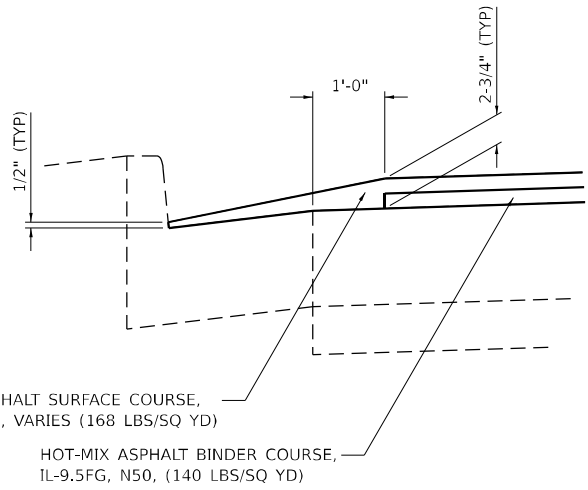
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	12
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

FAP 709 (US 136)



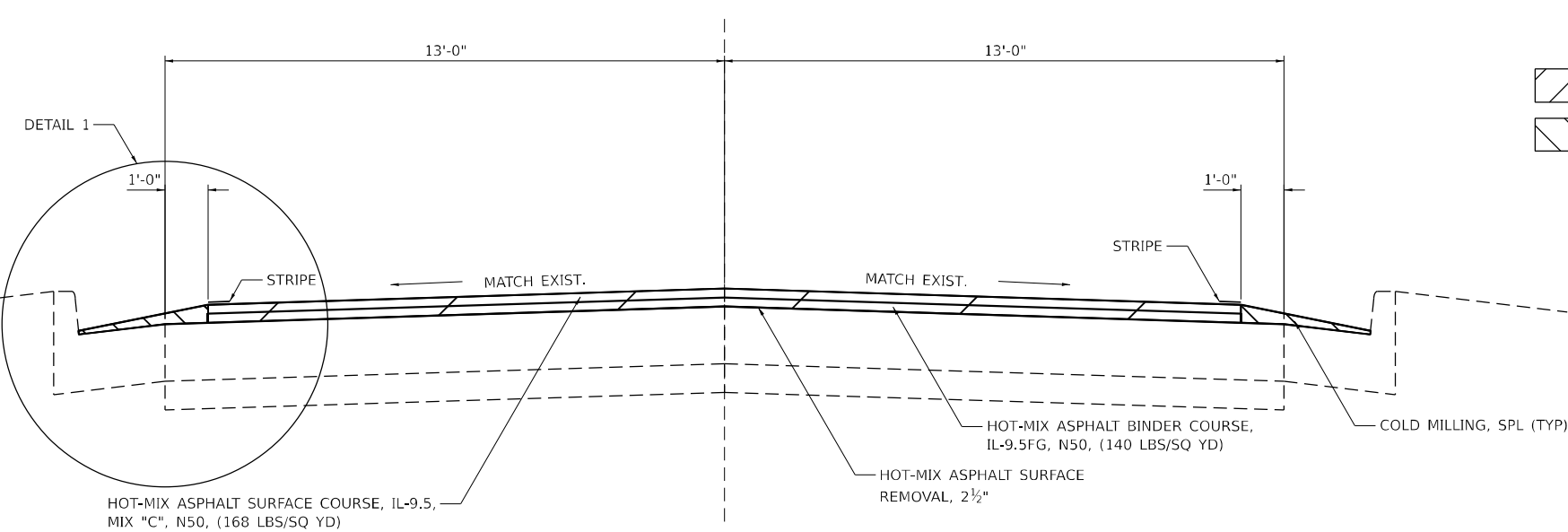
**EXISTING TYPICAL SECTIONS**  
STA. 1772+00.00 TO STA. 1778+06.69

**DETAIL 1 SHOWING PROPOSED PAVING**



HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, VARIES (168 LBS/SQ YD)  
HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50, (140 LBS/SQ YD)

FAP 709 (US 136)



**PROPOSED TYPICAL SECTIONS 3**  
STA. 1772+00.00 TO STA. 1778+06.69

HMA SURFACE REMOVAL, 2 1/2"  
 COLD MILLING (SPECIAL)

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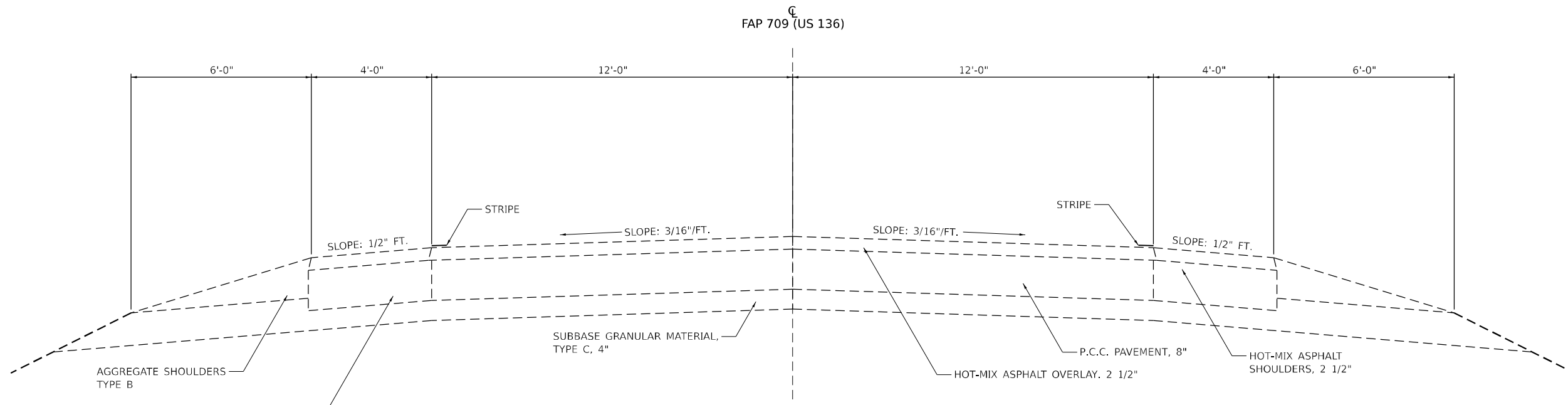


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DRAWN - LCS	REVISED -	
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PLOT DATE = 2/27/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

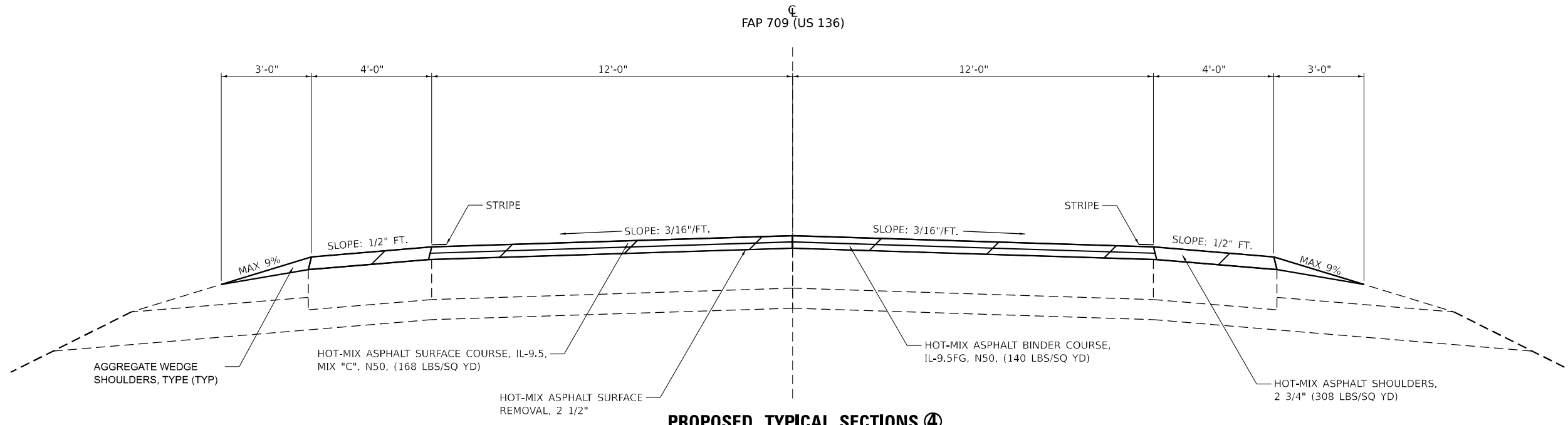
TYPICAL SECTIONS	
SCALE:	SHEET 3 OF 5 SHEETS
STA. 1772+00.00 TO STA. 1778+06.69	

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 13
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTIONS**  
 STA. 1778+06.69 TO STA. 1779+18.17

 HMA SURFACE REMOVAL, 2 1/2"



**PROPOSED TYPICAL SECTIONS ④**  
 STA. 1778+06.69 TO STA. 1779+18.17

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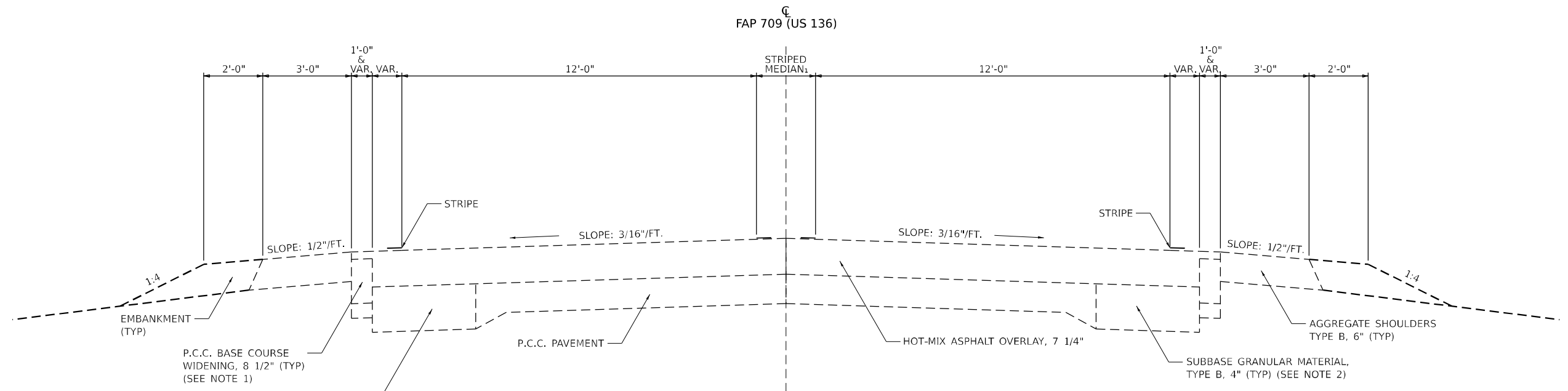


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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

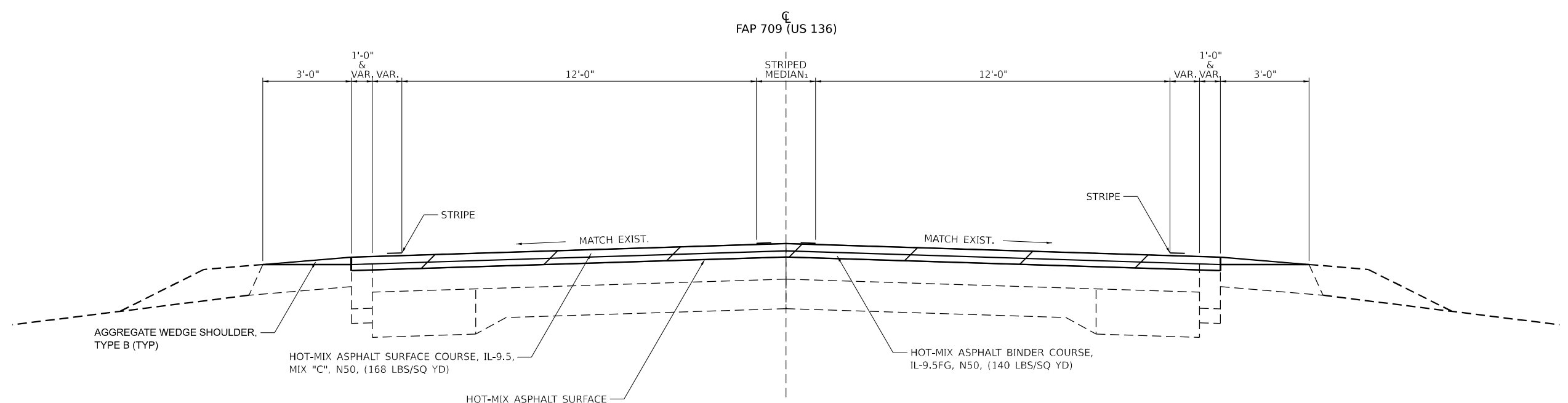
<b>TYPICAL SECTIONS</b>			
SCALE:	SHEET 4	OF 5 SHEETS	STA. 1778+06.69 TO STA. 1779+18.17

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 14
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTIONS**  
 STA. 1650+00.00 TO STA. 1651+30.00 OMISSION: 70844  
 OMISSION: 70844 STA. 1673+70.00 TO STA. 1674+00.00

HMA SURFACE REMOVAL, 2 1/2"



**PROPOSED TYPICAL SECTIONS ⑤**  
 STA. 1650+00.00 TO STA. 1651+30.00 OMISSION: CN 70844  
 OMISSION: CN 70844 STA. 1673+70.00 TO STA. 1674+00.00

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET 5 OF 5 SHEETS STA. 1650+00.00 TO STA. 1674+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	15
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				





HMA SURFACE REMOVAL SCHEDULE					
STATION	TO	STATION	44000159	44000160	Z0010900
			HMA SURFACE REMOVAL, 2-1/2" SQ YD	HMA SURFACE REMOVAL, 2-3/4" SQ YD	COLD MILLING (SPECIAL) FOOT
1450+29.50		1457+85.24		2,057.4	
1458+28.24		1479+00.00		5,985.1	
1479+04.77		1594+92.00		33,474.2	
1595+00.00		1650+00.00		15,888.9	
1650+00.00		1651+30.00		390.0	
1673+70.00		1674+00.00		86.7	
1674+00.00		1732+46.82		16,890.8	
1732+50.00		1743+02.00		1,519.6	
1732+50.00		1741+58.00		1,311.6	
1741+58.00		1772+00.00		4,394.0	
1743+02.00		1772+00.00		4,186.0	
1772+00.00		1778+06.69	1,617.8		606.7
1778+06.69		1779+18.17	396.4		
TOTAL			2,014.2	86,184.3	606.7
USE			2,014.0	86,184.0	607.0

SHORT TERM PAVEMENT MARKING SCHEDULE					
STATION	TO	STATION	70300100	70300150	
			SHORT TERM PVMT MARKING YELLOW FOOT	SHORT TERM PVMT MARKING REMOVAL SQ FT	
1450+73.00		1457+85.00	195.0	21.7	
1458+28.00		1479+00.00	567.0	63.0	
1479+05.00		1594+92.00	3,162.0	351.3	
1595+00.00		1651+30.00	1,536.0	170.7	
1673+70.00		1732+47.00	1,605.0	178.3	
1732+50.00		1779+18.00	1,275.0	141.7	
TOTAL			8,340.0	926.7	
USE			8,340	927	

TEMPORARY RAMPS		
STATION	SIDE	40600990
		TEMPORARY RAMP SQ YD
1450+73.08	WB	19.4
1450+73.08	EB	19.4
1457+85.24	WB	19.4
1457+85.24	EB	19.4
1458+28.24	WB	19.4
1458+28.24	EB	19.4
1651+30.00	WB	20.8
1651+30.00	EB	20.4
1673+70.00	WB	19.4
1673+70.00	EB	20.5
1779+18.17	WB	18.1
1779+18.17	EB	18.1
TOTAL		233.7
USE		234

PATCHING SCHEDULE					
LOCATION	44201421	44201823	44201827	44201831	44201833
	CLASS C PATCHES TYPE IV 15"	CLASS D PATCHES TYPE I 15"	CLASS D PATCHES TYPE II 15"	CLASS D PATCHES TYPE III 15"	CLASS D PATCHES TYPE IV 15"
	SQYD	SQYD	SQYD	SQYD	SQYD
US 136		441.0	264.6	88.2	88.2
1458+28.24	120.9				
TOTAL	120.9	441.0	264.6	88.2	88.2
USE	121	441	265	88	88

\* Calculations for the class D patches are:  
 Total - 1% of entire pavement area  
 Type I - 50% of Total  
 Type II - 30% of Total  
 Type III - 10% of Total  
 Type IV - 10% of Total

PAVEMENT MARKING SCHEDULE												
STATION	TO	STATION	78001110		78000400	78000600	78000650	78011035	78011065	78011125	78100100	78300200
			PAINT PVMT MARKING - LINE 4"		THERMOPLASTIC PVMT MARKING - LINE 6"	THERMOPLASTIC PVMT MARKING - LINE 12"	THERMOPLASTIC PVMT MARKING - LINE 24"	GROOVING FOR RECESSED PVMT MARKING, 7"	GROOVING FOR RECESSED PVMT MARKING, 13"	GROOVING FOR RECESSED PVMT MARKING, 25"	RAISED REFLECTIVE PVMT MARKER	RAISED REFLECTIVE PVMT MARKER REMOVAL
			YELLOW FOOT	WHITE FOOT	WHITE FOOT	WHITE FOOT	WHITE FOOT	FOOT	FOOT	FOOT	EACH	EACH
1450+73.00		1457+85.00	179.0	1,425.0							9.0	9.0
1458+28.00		1479+00.00	518.0	4,144.0							26.0	26.0
1479+05.00		1594+92.00	2,897.0	23,175.0							145.0	145.0
1518+23.00		1525+61.00	738.0									
1528+48.00		1535+19.00	671.0									
1586+48.00		1593+39.00	691.0									
1594+86.00		1602+92.00	806.0									
1595+00.00		1651+30.00	1,408.0	11,260.0							70.0	70.0
1648+40.00		1651+30.00	291.0									
1673+70.00		1732+47.00	1,470.0	11,754.0							73.0	73.0
1673+70.00		1676+03.00	234.0									
1732+50.00		1779+18.00	1,168.0	9,337.0							58.0	58.0
1758+86.00		1758+86.00	35.0									
1743+94.35		1743+94.35			52.9	48.0		52.9	48.0			
1744+37.23		1744+75.20			71.2		15.5	71.2		15.5		
1748+31.24		1748+64.03			64.5	84.0		64.5	84.0			
1748+67.64		1748+67.64			96.3		13.7	96.3		13.7		
1758+57.98		1759+16.73			116.8		24.7	116.8		24.7		
1762+86.56		1763+33.79			82.0		17.1	82.0		17.1		
TOTAL			11,106.0	61,095.0	483.7	132.0	71.0	483.7	132.0	71.0	381.0	381.0
USE			72,201		484	132	71	484	132	71	381	381

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USER NAME = kujlich	DESIGNED - LCS	REVISED -
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PLOT DATE = 2/27/2023	CHECKED - RLH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:				SCHEDULES			
SHEET 2	OF 4	SHEETS	STA.	SHEET 2	OF 4	SHEETS	STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 17
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	

ADA SCHEDULE										
STATION	SIDE	INTERSECTION	42400200 PORTLAND CEMENT CONCRETE SIDEWALK, 5"	42400800 DETECTABLE WARNINGS	44000600 SIDEWALK REMOVAL	44000500 COMBINATION CURB & GUTTER REMOVAL	60605000 COMBINATION CURB & GUTTER TYPE B-6.24	60600095 CLASS SI CONCRETE (OUTLET)	60260100 INLETS TO BE ADJUSTED	72400500 RELOCATE SIGN PANEL ASSEMBLY - TYPE A
			SQ FT	SQ FT	SQ FT	SQ FT	FOOT	CU YD	EACH	EACH
1742+23.93	RT	N/A				10.0	5.0	1.5		
1743+94.25	RT	S NORTHWEST ST	77.9	10.0	295.0	15.0	15.0			
1743+94.33	LT	S NORTHWEST ST	328.1	10.0	77.0	15.0	15.0			
1744+33.94	LT	S NORTHWEST ST		10.0		17.2	17.2			
1744+78.31	LT	S NORTHWEST ST	67.6	8.0	69.1	16.6	16.6		1.0	
1748+27.68	LT	S 5TH ST	156.2	10.0	129.4	18.5	18.3			
1748+70.52	RT	S 5TH ST	187.7	10.0	233.2	41.2	41.2			
1748+70.52	LT	S 5TH ST	198.3	27.3	231.2	43.9	53.4		1.0	
1758+55.70	LT	S 3RD ST	151.6	12.4	144.7	16.3	16.3		1.0	1.0
1759+11.49	LT	S 3RD ST	174.9	17.6	155.5	21.1	21.1			
1762+77.73	RT	S 2ND ST				30.0	30.0			
1762+82.92	LT	S 2ND ST	190.9	10.0	162.1	24.2	24.2		2.0	
1763+36.70	LT	S 2ND ST	120.8	10.0	108.0	22.6	22.6		1.0	
1769+88.00	LT	N/A				55.0	55.0			
1774+00.00	RT	N/A				250.0	250.0		1.0	
TOTAL			1,654.0	135.3	1,605.2	596.6	600.9	1.5	7.0	1.0
USE			1,654	135	1,605	597	601	2	7	1

GUARDRAIL SCHEDULE								
STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POSTS	63000360 LONG-SPAN GUARDRAIL OVER CULVERT 18 FT 9 IN SPAN	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL TANGENT	63100087 TRAFFIC BARRIER TERMINAL TYPE 6A	63200310 GUARDRAIL REMOVAL	72501000 TERMINAL MARKER DIRECT APPLIED
			FOOT	FOOT	EACH	EACH	FOOT	EACH
1456+50.50		1457+86.23			1.0	1.0	131.2	1.0
1455+98.81		1457+86.31	100.0		1.0	1.0	200.8	1.0
1458+28.30		1460+15.80	100.0		1.0	1.0	206.5	1.0
1458+27.27		1459+62.99			1.0	1.0	124.6	1.0
1568+02.71		1570+59.71	112.5	43.8	2.0		189.4	2.0
1567+16.45		1569+72.29	112.5	43.8	2.0		213.3	2.0
1646+71.04		1649+53.04	137.5	43.8	2.0		212.9	2.0
1645+83.62		1648+43.37	112.5	43.8	2.0		211.5	2.0
TOTAL			675.0	175.0	12.0	4.0	1,490.3	12.0
USE			675	175	12	4	1,490	12

EARTHWORK										
STATION	TO	STATION	SIDE	20200100 EARTH EXCAVATION	20200500 EARTH EXCAVATION WIDENING	25000100 SEEDING CLASS 1	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH METHOD 2
				CUYD	CUYD	ACRE	POUND	POUND	POUND	ACRE
1567+63.00		1570+16.00	RT		18.8					
1567+63.00		1570+22.00	LT		19.2					
1743+96.90		1744+34.83	RT			0.0028	0.2	0.2	0.2	0.0028
1743+96.90		1744+34.83	LT	0.7		0.0210	1.9	1.9	1.9	0.0210
1748+09.25		1748+28.69	LT	0.3		0.0065	0.6	0.6	0.6	0.0065
1748+51.66		1748+73.71	RT	1.9		0.0166	1.5	1.5	1.5	0.0166
1748+75.38		1749+00.52	LT	0.9		0.0128	1.2	1.2	1.2	0.0128
1758+36.68		1758+55.58	LT	0.5		0.0042	0.4	0.4	0.4	0.0042
1759+13.02		1759+34.98	LT	0.7		0.0073	0.7	0.7	0.7	0.0073
1762+62.80		1762+83.22	LT	0.5		0.0091	0.8	0.8	0.8	0.0091
1763+45.73		1763+55.70	LT	0.3		0.0055	0.5	0.5	0.5	0.0055
TOTAL				5.6	38.0	0.0831	7.6	7.6	7.6	0.0831
USE				6.0	38.0	0.25	23	23	23	0.25

MEDIAN REMOVAL		
STATION	44003100 MEDIAN REMOVAL	35400542 PCC BASE COURSE WIDENING, 15.5"
	SQFT	SQYD
1758+70.00	30.2	3.4
TOTAL	30.2	3.4
USE	30	3

MODEL: Schedules (1 of 2) [Sheet]  
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		DRAWN -	LCS	REVISED -	
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PLOT DATE =	2/27/2023	DATE -		REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>			
SCALE:	SHEET 3	OF 4	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	18
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

TEMPORARY CONCRETE BARRIER SCHEDULE								
STATION	TO	STATION	SIDE	70400100	70400200	70600251	70600352	70400125
				TEMP CONCRETE BARRIER	TEMP CONC BARRIER RELOCATE	IMPACT ATTENUATORS (NON-REDIRECTIVE, NARROW) TEST LEVEL 3	RELOC IMPACT ATTENUATORS (NON-REDIRECTIVE, NARROW) TEST LEVEL 3	PINNING TEMP CONCRETE BARRIER
				FT	FT	EACH	EACH	EACH
1567+73.00		1568+38.00		75.0	75.0			
1568+38.00		1569+38.00		100.0	100.0			15.0
1569+38.00		1570+03.00		75.0	75.0			
1567+74.00			LT			1.0	1.0	
1570+04.00			LT			1.0	1.0	
TOTAL				250.0	250.0	2.0	2.0	15.0
USE				250	250	2	2	15

FOR STANDARD 701321 @ BOX CULVERT REPLACEMENT STA. 1568+87.58	TEMPORARY RUMBLE STRIPS 70106700 6 EACH	TEMPORARY BRIDGE TRAFFIC SIGNALS 70106500 1 EACH
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DRAINAGE SCHEDULE			
AT BOX CULVERT REPLACEMENT STA. 1568+87.58	550A0410 STORM SEWERS CLASS A TYPE 2, 24"	60219000 MANHOLES, TYPE A 4'-DIAMETER TYPE 8 GRATE	21301060 EXPLORATION TRENCH 60" DEPTH
	FEET	EACH	FOOT
TOTAL	78	2	50

MANHOLES TO BE ADJUSTED 60255500		
STATION	OFFSET	EACH
1749+09	28' RT	1
1767+27	31' LT	1
TOTAL		2

TEMPORARY PAVEMENT MARKING SCHEDULE										
STATION	TO	STATION	70300221 TEMP PAINT PVMT MARKING LINE 4" - PAINT				70300241 TEMP PVMT MARKING LINE 6" - PAINT	70300261 TEMP PVMT MARKING LINE 12" - PAINT	70300281 TEMP PVMT MARKING LINE 24" - PAINT	78300202 PVMT MARKING REMOVAL - WATER BLASTING
			WHITE	YELLOW						
			SOLID	SKIP	SOLID	DOUBLE				
			FOOT	FOOT	FOOT	FOOT	WHITE	WHITE	WHITE	
1450+73.00		1457+85.00	1,425.0	179.0						SQ FT
1458+28.00		1479+00.00	4,144.0	518.0						534.7
1479+05.00		1594+92.00	23,175.0	2,897.0						1,554.0
1518+23.00		1525+61.00			738.0					8,690.7
1528+48.00		1535+19.00			671.0					246.0
1586+48.00		1593+39.00			691.0					223.7
1594+86.00		1602+92.00			806.0					230.3
1595+00.00		1651+30.00	11,260.0	1,408.0						268.7
1648+40.00		1651+30.00			291.0					4,222.7
1673+70.00		1732+47.00	11,754.0	1,470.0						97.0
1673+70.00		1676+03.00			234.0					4,408.0
1732+50.00		1779+18.00	9,337.0	1,168.0						78.0
1758+86.00		1758+86.00				35.0				3,501.7
1743+94.35		1743+94.35					52.9			11.7
1744+37.23		1744+75.20					71.2	15.5		74.5
1748+31.24		1748+64.03					64.5	84.0		66.6
1748+67.64		1748+67.64					96.3		13.7	116.2
1758+57.98		1759+16.73					116.8		24.7	75.6
1762+86.56		1763+33.79					82.0		17.1	107.8
TOTAL			61,095.0	7,640.0	3,431.0	35.0	483.7	132.0	71.0	24,582.9
USE							484	132	71	24,583

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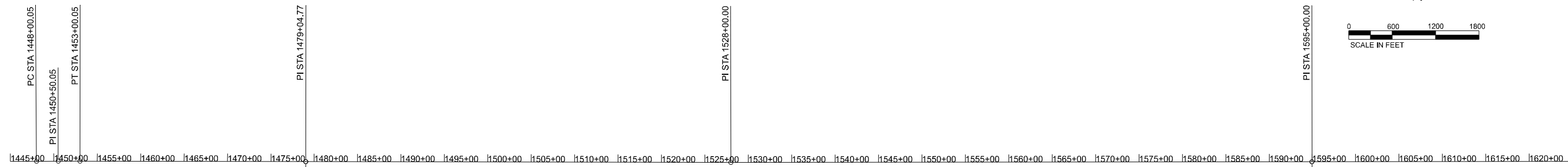
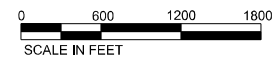
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	DRAWN - LCS	REVISED -
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

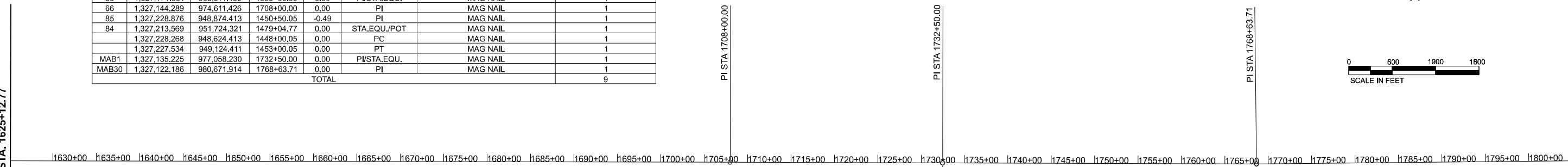
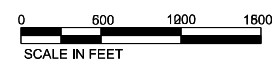
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	19
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



EX CURVE  
 PI STA = 1450+50.05  
 $\Delta = 00^\circ 26' 50''$  (RT)  
 $D = 00^\circ 05' 22''$   
 $R = 64,058.51'$   
 $T = 250.00'$   
 $L = 500.00'$   
 $E = 0.49'$   
 $e =$   
 PC STA = 1448+00.05  
 PT STA = 1453+00.05

PT#	NORTHING	EASTING	STATION	OFFSET	CODE	EXISTING	SURVEY MONUMENT	
							COVER ASSEMBLY	SURVEY MARKER
							EACH	EACH
200	1,327,121.610	980,523.187	1767+14.98	1.11	200	NAIL SECTION CORNER		1
201	1,327,132.554	977,894.164	1740+85.94	-0.34	201	NAIL QUARTER CORNER		1
202	1,327,132.655	977,864.825	1740+56.40	-0.34	201	PK NAIL QUARTER CORNER		1
203	1,327,143.963	975,313.860	1715+02.43	-2.28	200	VAULT/DISK SECTION CORNER	1	
204	1,327,144.417	975,204.529	1713+93.10	-2.33	200	NAIL SECTION CORNER		1
205	1,327,150.871	972,638.737	1688+27.30	-1.77	201	NAIL QUARTER CORNER		1
206	1,327,151.221	972,533.672	1687+22.24	-1.87	201	NAIL QUARTER CORNER		1
207	1,327,157.644	970,002.130	1661+90.69	-2.12	200	VAULT SECTION CORNER		1
208	1,327,158.092	969,878.992	1660+67.55	-2.27	200	VAULT SECTION CORNER		1
209	1,327,161.235	967,326.298	1635+14.85	0.81	201	NAIL QUARTER CORNER		1
210	1,327,161.794	967,217.797	1634+06.35	0.52	201	NAIL QUARTER CORNER		1
211	1,327,164.939	964,700.882	1608+89.44	3.51	200	NAIL SECTION CORNER		1
212	1,327,165.491	964,556.366	1607+44.92	3.31	200	NAIL SECTION CORNER		1
213	1,327,179.474	959,422.636	1556+03.17	1.33	200	NAIL SECTION CORNER		1
214	1,327,180.059	959,233.708	1554+14.24	1.18	200	NAIL SECTION CORNER		1
215	1,327,188.560	956,772.411	1529+52.93	-1.64	201	NAIL QUARTER CORNER		1
216	1,327,198.564	953,914.839	1500+95.34	3.24	200	NAIL SECTION CORNER		1
217	1,327,231.837	948,853.348	1450+28.98	-3.42	200	DISK SECTION CORNER		1
218	1,327,196.935	954,161.586	1503+42.09	3.54	200	PK NAIL SECTION CORNER		1
TOTAL							1	18

PT#	NORTHING	EASTING	STATION	OFFSET	CODE	EXISTING	EACH
24	1,327,187.275	956,619.480	1528+00.00	0.00	PI	MAG NAIL	1
38	1,327,171.831	963,311.459	1595+00.00	0.00	PI/STA.EQU.	MAG NAIL	1
66	1,327,144.289	974,611.426	1708+00.00	0.00	PI	MAG NAIL	1
85	1,327,228.876	948,874.413	1450+50.05	-0.49	PI	MAG NAIL	1
84	1,327,213.569	951,724.321	1479+04.77	0.00	STA.EQU./POT	MAG NAIL	1
	1,327,228.268	948,624.413	1448+00.05	0.00	PC	MAG NAIL	1
	1,327,227.534	949,124.411	1453+00.05	0.00	PT	MAG NAIL	1
MAB1	1,327,135.225	977,058.230	1732+50.00	0.00	PI/STA.EQU.	MAG NAIL	1
MAB30	1,327,122.186	980,671.914	1768+63.71	0.00	PI	MAG NAIL	1
TOTAL							9



Alignment Coordinates - US 136

Station	N	E	
POB	1445+00.00	1327227.538	948324.412
PC	1448+00.05	1327228.268	948624.413
PI	1450+50.05	1327228.876	948874.413
PT	1453+00.05	1327227.534	949124.411
PI	1479+04.77	1327213.569	951724.320
PI	1528+00.00	1327187.275	956619.480
PI	1595+00.00	1327171.831	963311.459
PI	1708+00.00	1327144.289	974611.426
PI	1732+50.00	1327135.225	977058.230
PI	1768+63.71	1327122.186	980671.914

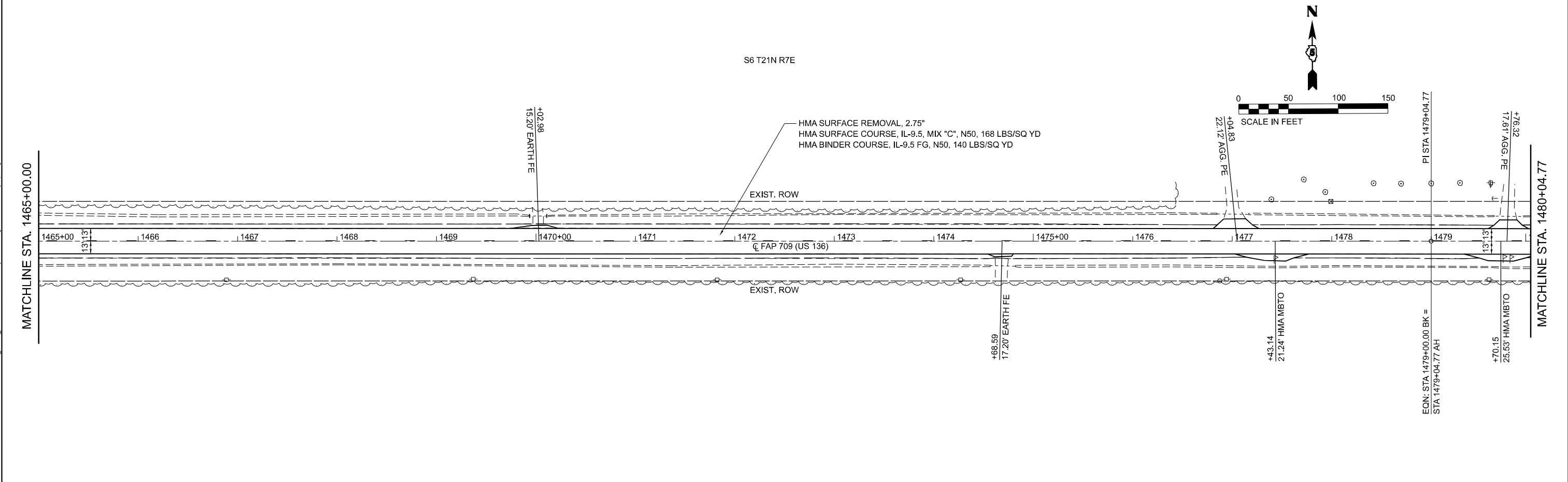
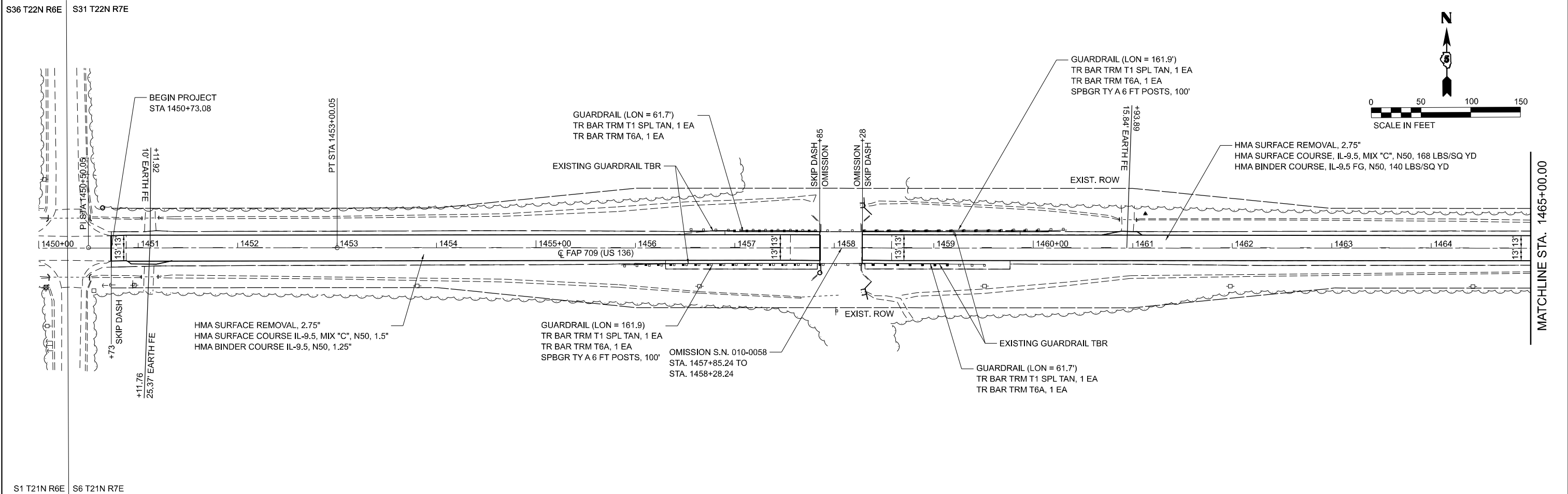
BM 4875-25: CHSLD [ ] ON TOP CENTER OF WEST HEADWALL OF A PIPE CULVERT UNDER A PRIVATE ENTRANCE TO A BRICK FARMHOUSE 600' OFF ROAD @ STA. 1689+95.57 OFFSET -29.12 LT ELEV = 732.65

BM 4875-27: CHSLD [ ] ON TOP CENTER OF EAST HEADWALL OF PIPE CULVERT UNDER A COMMERCIAL ENTRANCE TO THE FISHER SCHOOL, JUST NORTH OF THE WELCOME TO FISHER SIGN @ STA. 1741+18.03 OFFSET 25.85 RT ELEV = 727.08

BM 4875-28: FROM US 136 AND IL 47 GO 2.2 MILES TO MARK ON LEFT. CHSLD [ ] ON TOP OF NW WINGWALL OF STR NO:212 @ EAST CITY LIMITS OF FISHER. ELEV = 711.41

MODEL: US136 (CONV) (REV) 3 - Rtn: 1 (Rev: 4) FILE NAME: P:\US136\US136-1\X1507\_IDOT\_FTB\_199-227.DS\_VL\_Cadrel\_W00#3128-TransCAD\Project Drawings\0570493-dt-1TB.dgn

 <b>CIVIL DESIGN, INC.</b> WBE / DBE EFFINGHAM, IL LIC. # 184.003222	USER NAME = kujrich DESIGNED - NB DRAWN - NB CHECKED - RLH DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>ALIGNMENT AND BENCHMARKS</b>		F.A.P. RTE. 709 SECTION (104)RS-2 COUNTY CHAMPAIGN TOTAL SHEETS 72 SHEET NO. 20	CONTRACT NO. 70A93 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 0.16666633 1/16" PLOT DATE = 2/27/2023	DATE -	SCALE: 1"=600' SHEET 1 OF 1 SHEETS STA. 1445+00 TO STA. 1805+15.96					



MODEL: I:\S\36(CORNERED) - Pkgs 1 (Sheet) FILE NAME: P:\S\36\50\51\X\507 - IDOT PFB 199-027.DS\_V\Gates\_W00#318-TransCAD\Project Drawings\057003-shc-dpwr.dgn

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		DATE -	REVISED -

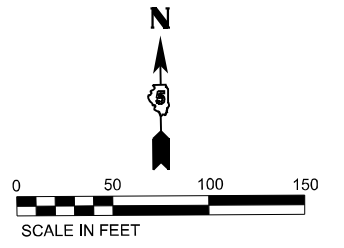
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CHECKED - RLH	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEETS</b>			
SCALE: 1:50	SHEET 1	OF 11 SHEETS	STA. 1450+00.00 TO STA. 1480+04.77

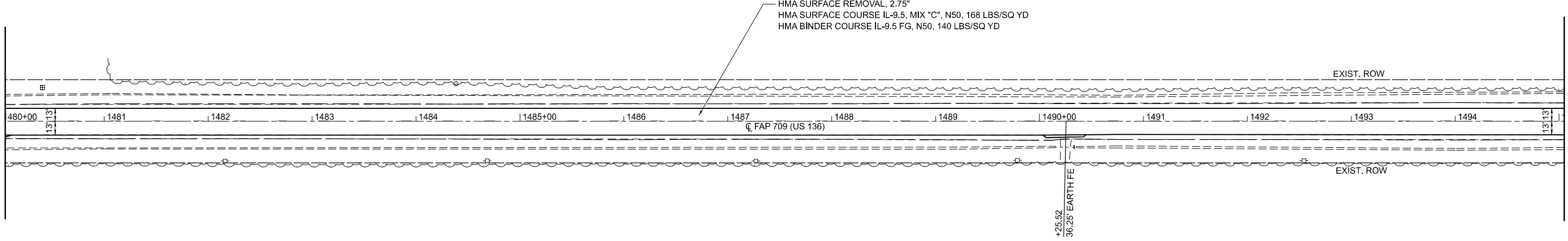
F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 21
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

S31 T22N R7E

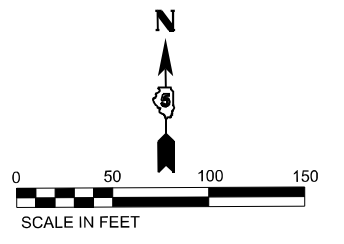


MATCHLINE STA. 1480+04.77

MATCHLINE STA. 1495+04.77

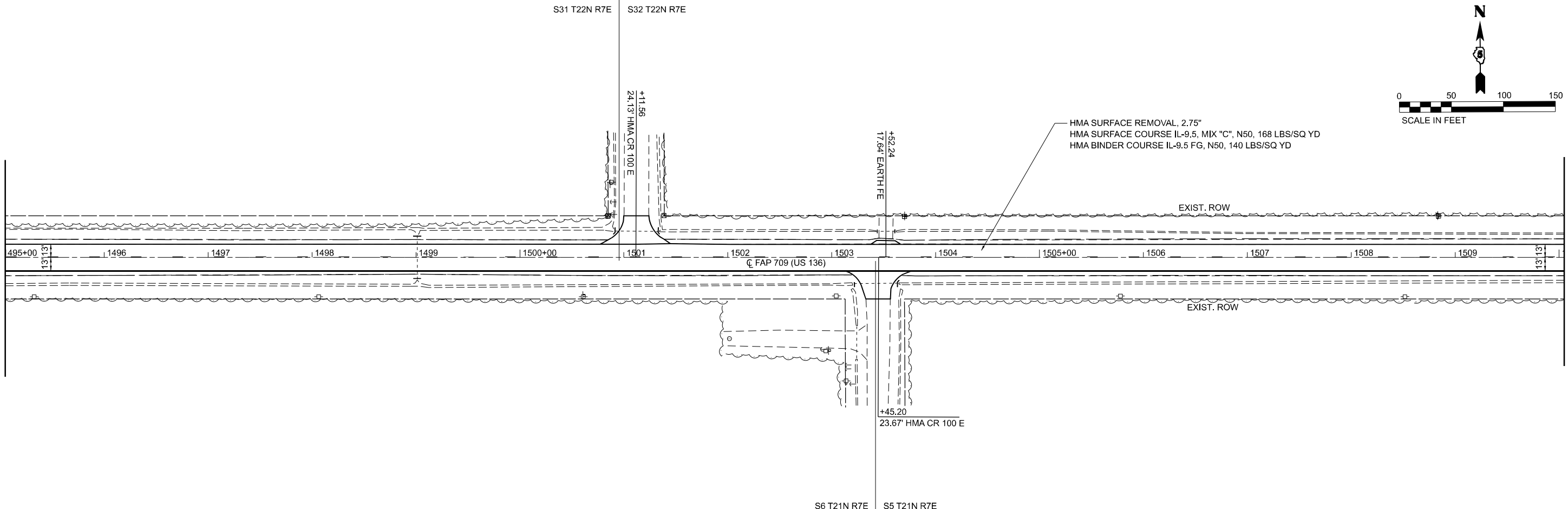


S6 T21N R7E



MATCHLINE STA. 1495+04.77

MATCHLINE STA. 1510+04.77



S6 T21N R7E S5 T21N R7E

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USER NAME = kujlich	DESIGNED - LCS	REVISED -
DRAWN - LCS	REVISED -	
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PLOT DATE = 2/27/2023	DATE -	REVISED -

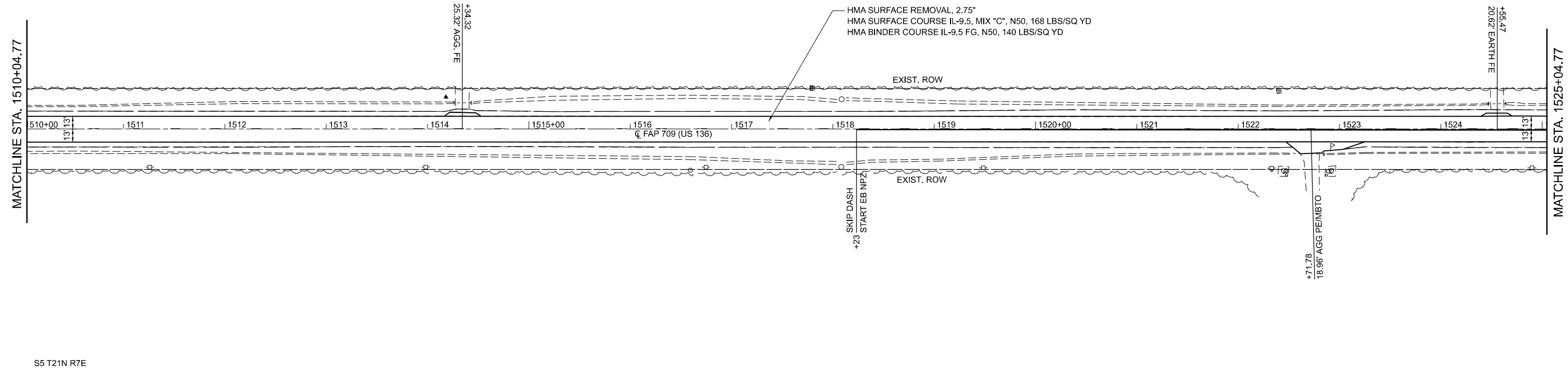
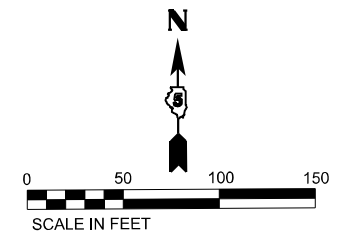
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

SCALE: 1:50 SHEET 2 OF 11 SHEETS STA. 1480+04.77 TO STA. 1510+04.77

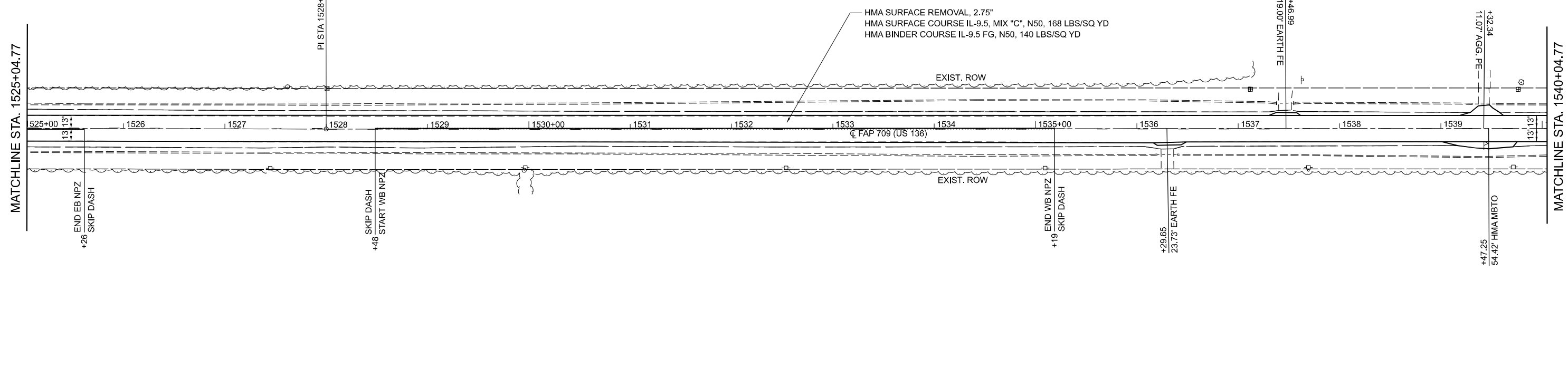
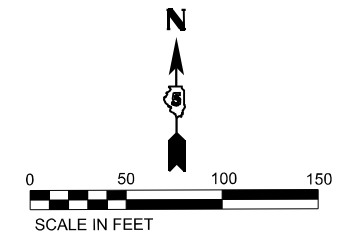
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	22
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

S32 T22N R7E



S5 T21N R7E

S32 T22N R7E



S5 T21N R7E

MODEL: US31 (CONVISED) - Rte 5 (Sheet) FILE NAME: P:\S\X\50\X\50\DOT PFB 199-027 DS\_VV\_Gates\WOP#3128\TransCAD\Project Drawings\057093-04.77-1540.77.dwg



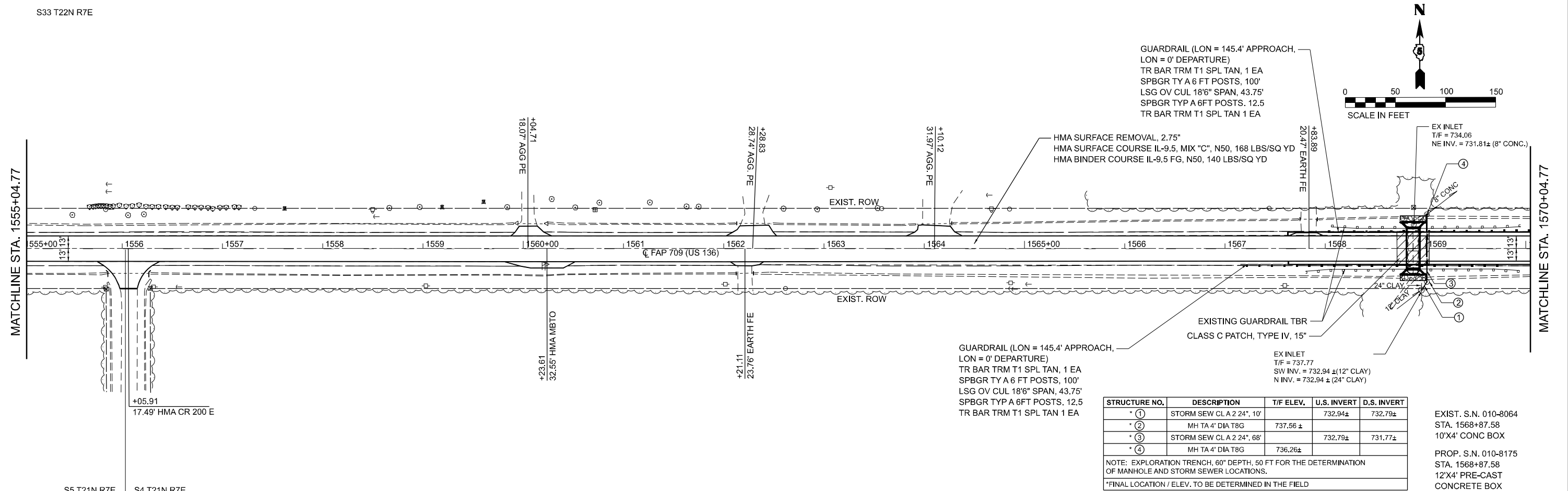
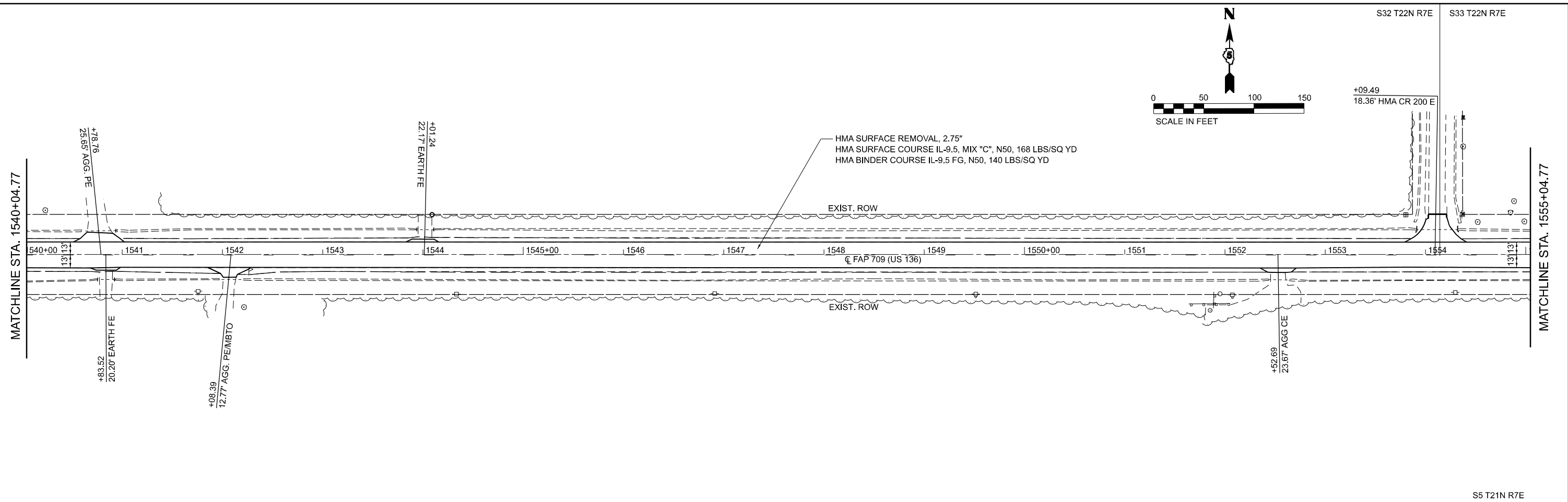
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DRAWN - LCS	REVISED -	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - RLH	REVISED -
PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEETS</b>			
SCALE: 1:50	SHEET 3	OF 11 SHEETS	STA. 1510+04.77 TO STA. 1540+04.77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	23
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	

MODEL: I:\S33\COV\G01\101 - Plan 7 (15x84) FILE NAME: P:\S33\COV\G01\101 - IDOT PFB 199-027 DS\_VV\_Gates\W03\328\TransCAD\Project Drawings\101\101-101.dgn



STRUCTURE NO.	DESCRIPTION	T/F ELEV.	U.S. INVERT	D.S. INVERT
* ①	STORM SEW CL A 2' 24", 10'	732.94±	732.94±	732.79±
* ②	MH TA 4' DIA T8G	737.56 ±		
* ③	STORM SEW CL A 2' 24", 68'		732.79±	731.77±
* ④	MH TA 4' DIA T8G	736.26±		

NOTE: EXPLORATION TRENCH, 60" DEPTH, 50 FT FOR THE DETERMINATION OF MANHOLE AND STORM SEWER LOCATIONS.  
 \*FINAL LOCATION / ELEV. TO BE DETERMINED IN THE FIELD

EXIST. S.N. 010-8064  
 STA. 1568+87.58  
 10'X4' CONC BOX  
  
 PROP. S.N. 010-8175  
 STA. 1568+87.58  
 12'X4' PRE-CAST  
 CONCRETE BOX

	USER NAME = kulrich	DESIGNED - LCS	REVISED -
	PLOT SCALE = 0.16666633 1/16"	DRAWN - LCS	REVISED -
	PLOT DATE = 2/27/2023	CHECKED - RLH	REVISED -
		DATE -	REVISED -

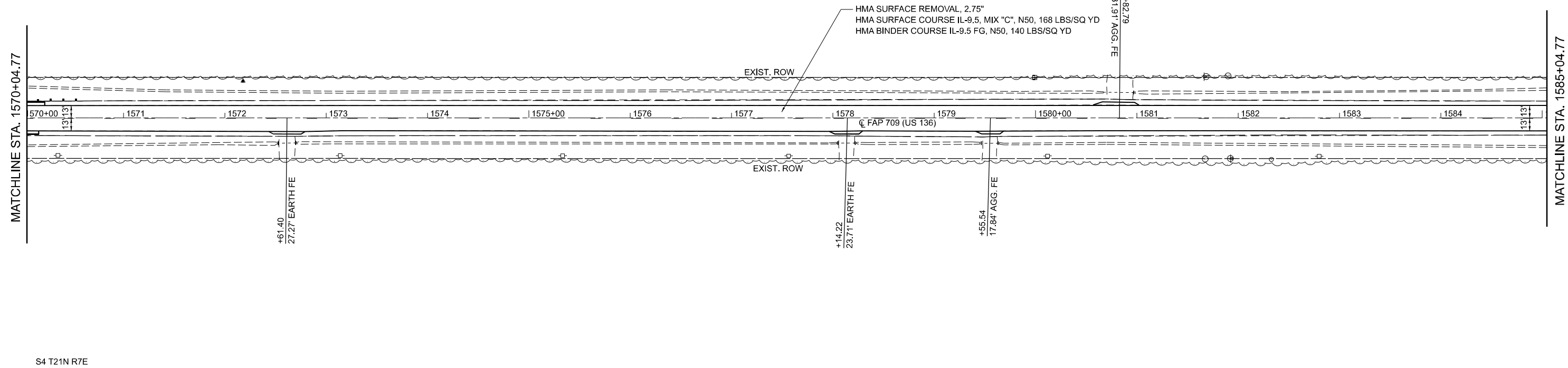
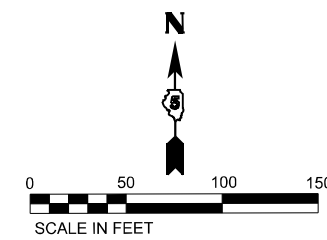
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**  
 SCALE: 1:50    SHEET 4 OF 11 SHEETS    STA. 1540+04.77 TO STA. 1570+04.77

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 24
CONTRACT NO. 70A93				ILLINOIS FED. AID PROJECT

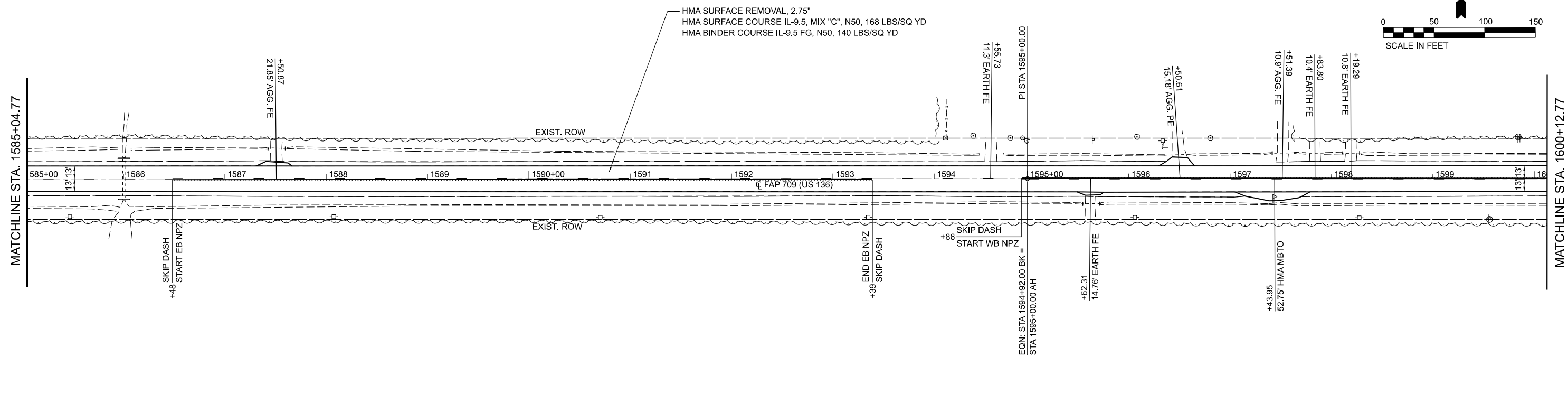
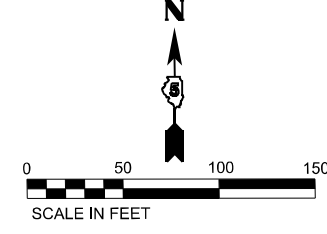


S33 T22N R7E



S4 T21N R7E

S33 T22N R7E



S4 T21N R7E

MODEL: I:\S33\CONV\CONV\CONV - Rte 015\sheet1.dwg  
 FILE NAME: P:\S33\CONV\CONV\CONV - Rte 015\sheet1.dwg  
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 FILE NAME: P:\S33\CONV\CONV\CONV - Rte 015\sheet1.dwg



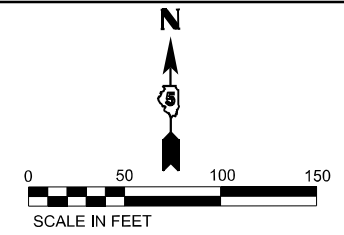
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DRAWN - LCS	REVISED -	
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

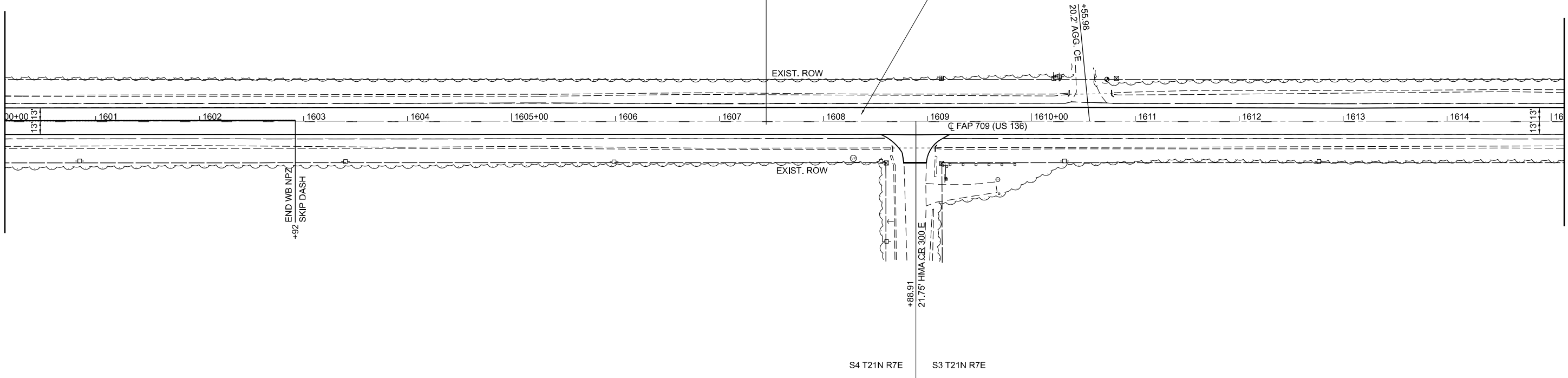
<b>PLAN SHEETS</b>			
SCALE: 1:50	SHEET 5	OF 11 SHEETS	STA. 1570+04.77 TO STA. 1600+12.77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	25
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

S33 T22N R7E S34 T22N R7E

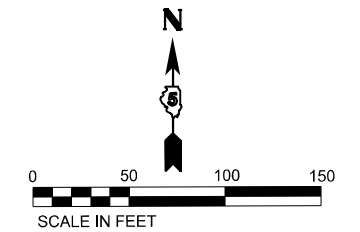


MATCHLINE STA. 1600+12.77

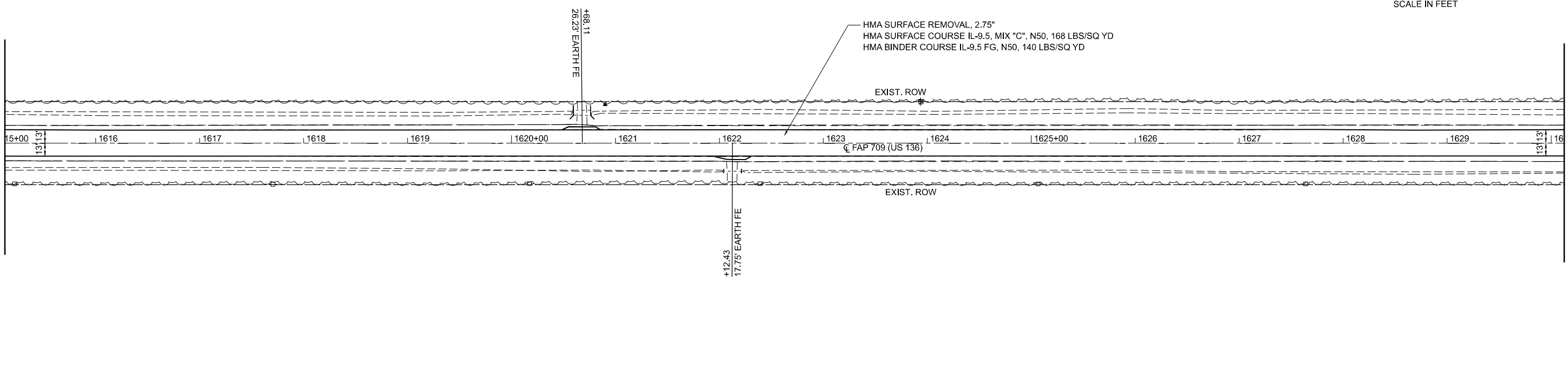


MATCHLINE STA. 1615+12.77

S34 T22N R7E



MATCHLINE STA. 1615+12.77



MATCHLINE STA. 1630+12.77

S3 T21N R7E

MODEL: US316 (CONVIMED) - Rm 11 (S-in) FILE NAME: P:\S\X\50\X\50\DOT PFB 199-027 DS\_VV\_Gates\WOP#318-Trans\CAD\Project Drawings\057003-03-14-19-2023.dwg



USER NAME = kulrich	DESIGNED - LCS	REVISED -
DRAWN - LCS	REVISED -	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - RLH	REVISED -
PLOT DATE = 2/27/2023	DATE -	REVISED -

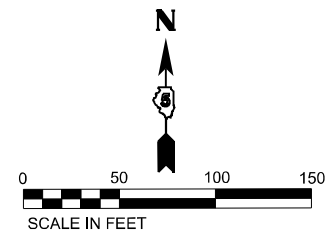
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

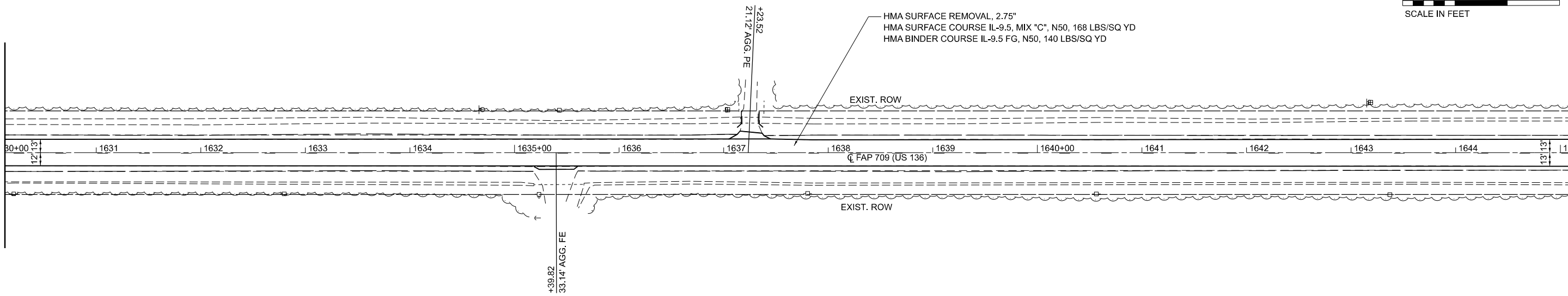
SCALE: 1:50 SHEET 6 OF 11 SHEETS STA. 1600+12.77 TO STA. 1630+12.77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	26
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

S34 T22N R7E



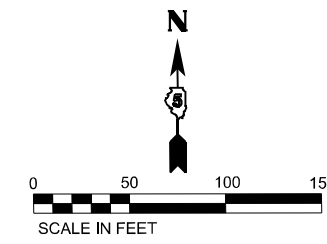
MATCHLINE STA. 1630+12.77



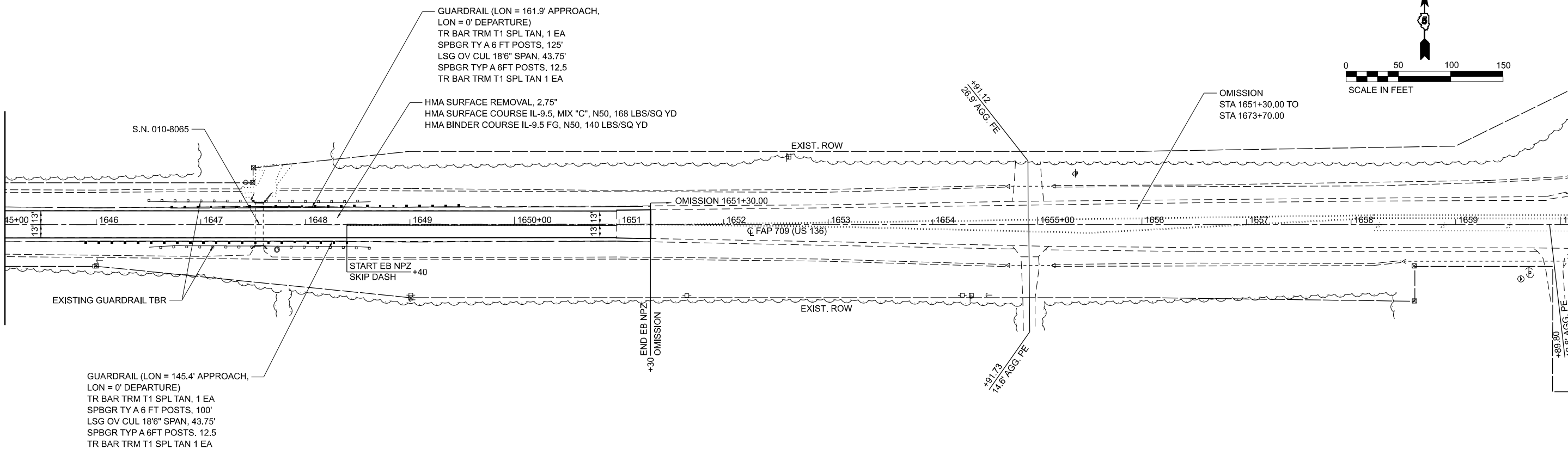
MATCHLINE STA. 1645+12.77

S3 21N R7E

S34 T22N R7E



MATCHLINE STA. 1645+12.77



MATCHLINE STA. 1660+12.77

S3 21N R7E

MODEL: I:\S3\21N\CONV\1645-1660.dwg; USER: kullrich; DATE: 2/27/2023; PROJECT: 1645-1660; SHEET: 7 OF 11



USER NAME = kullrich	DESIGNED - LCS	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - LCS	REVISED -
PLOT DATE = 2/27/2023	CHECKED - RLH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS			
SCALE: 1:50	SHEET 7	OF 11 SHEETS	STA. 1630+12.77 TO STA. 1660+12.77

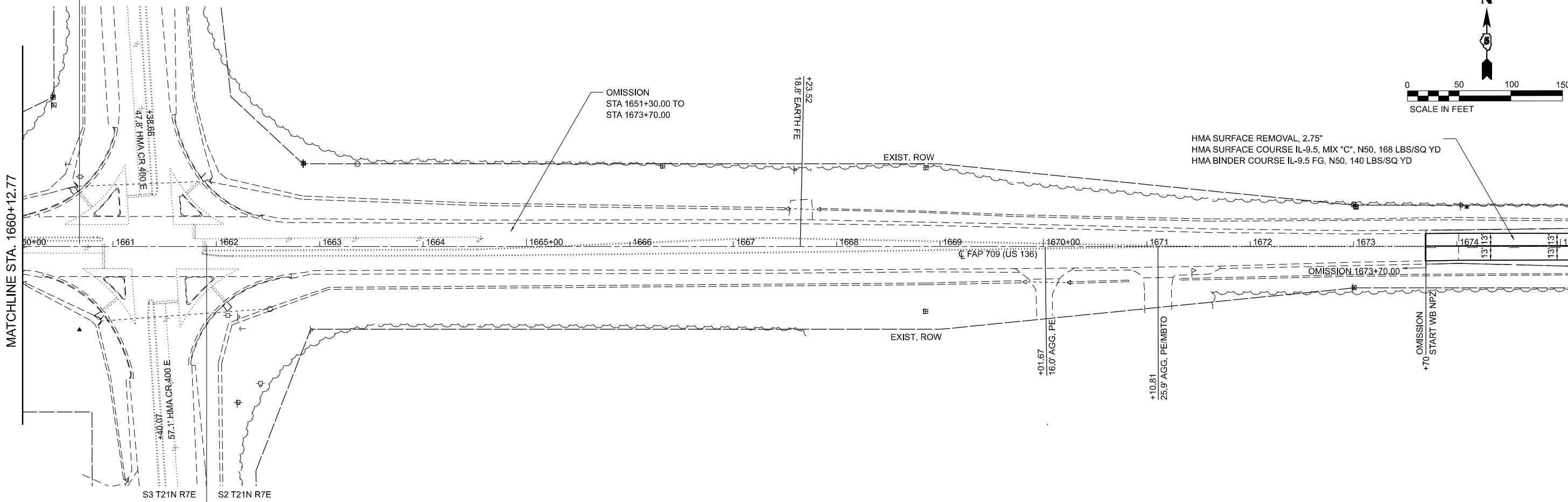
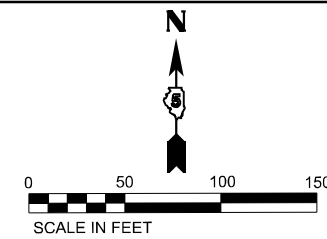
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	27
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

S34 T22N R7E

S35 T22N R7E

MATCHLINE STA. 1660+12.77

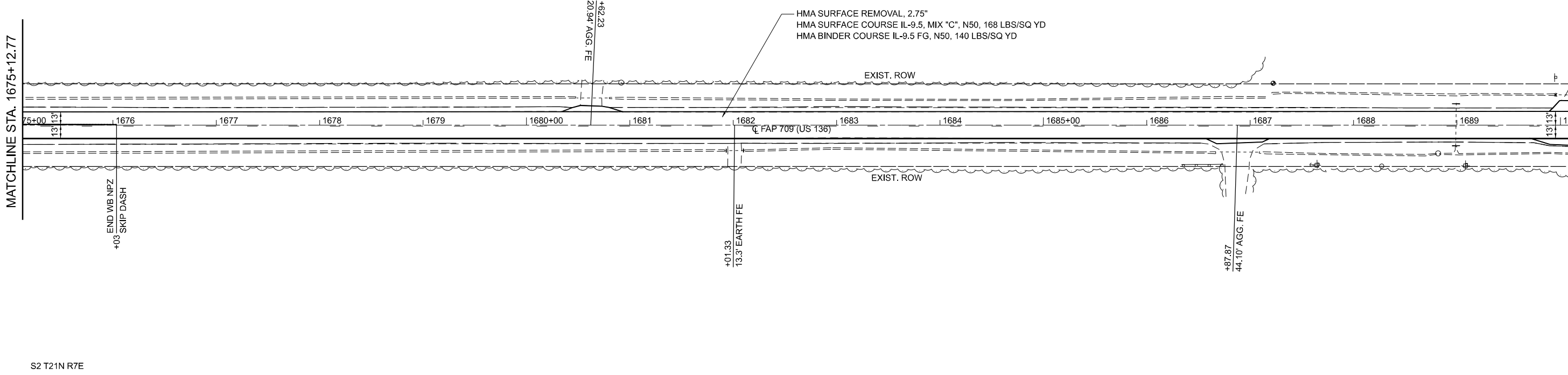
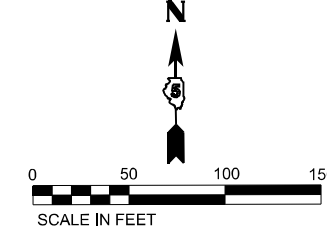
MATCHLINE STA. 1675+12.77



S35 T22N R7E

MATCHLINE STA. 1675+12.77

MATCHLINE STA. 1690+12.77



S2 T21N R7E

MODEL: US31(COINMIND) - Rm 15 (5-hr) FILE NAME: P:\S\X\50\X\50\DOT PFB 199-027 DS\_V\Gates\W0#318-TransCAD\Project Drawings\057093-sh-h-prt.dgn



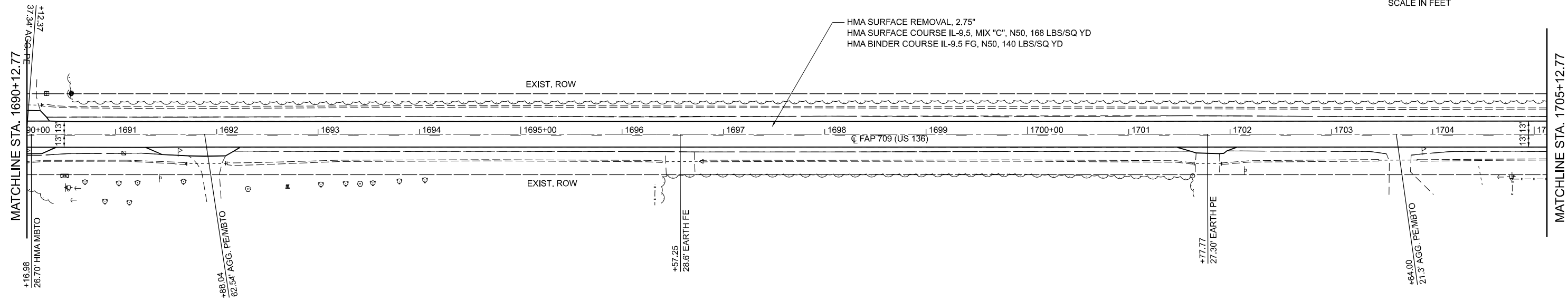
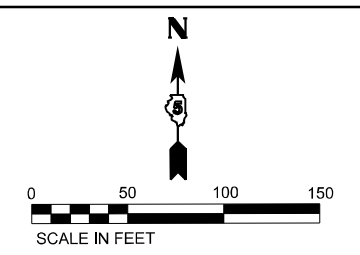
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DRAWN - LCS	REVISED -	
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PLOT DATE = 2/27/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS  
SCALE: 1:50 SHEET 8 OF 11 SHEETS STA. 1660+12.77 TO STA. 1705+12.77

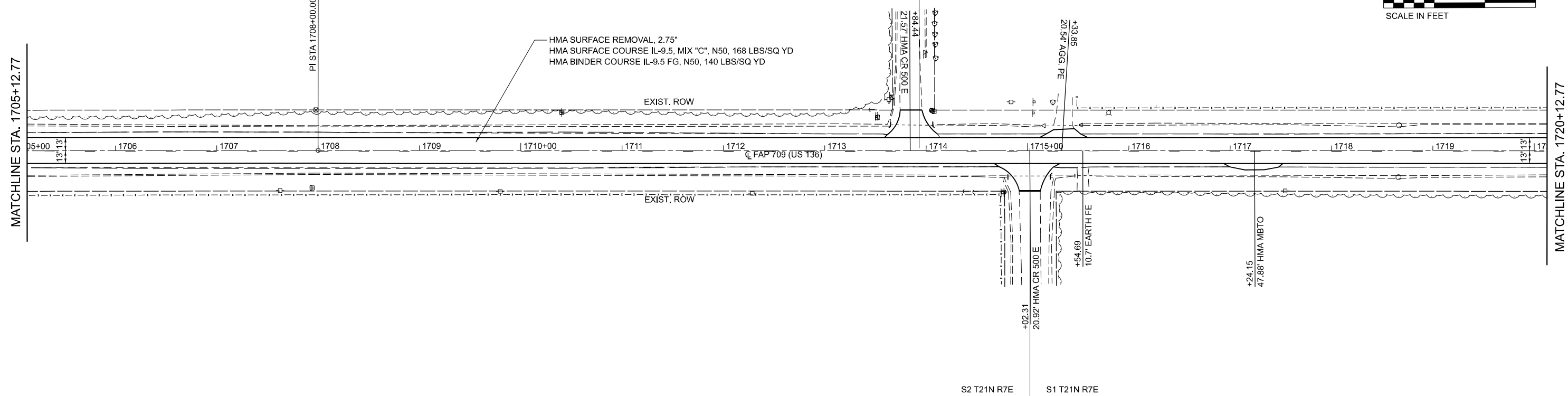
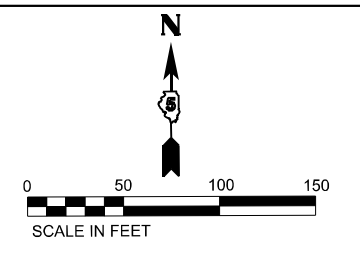
F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 28
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

S35 T22N R7E



S2 T21N R7E

S35 T22N R7E S36 T22N R7E



S2 T21N R7E S1 T21N R7E

MODEL: I:\S35\COMBINED - Rm 17 (S1641)  
FILE NAME: P:\S35\COMBINED - Rm 17 (S1641) - IDOT PFB 199-027.DS\_VV\_Catcol\_WOP#3128-TransCAD\Project Drawings\057093-2\17-1705-1720.dgn



USER NAME = kulrich	DESIGNED - LCS	REVISED -
DRAWN - LCS	REVISED -	
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

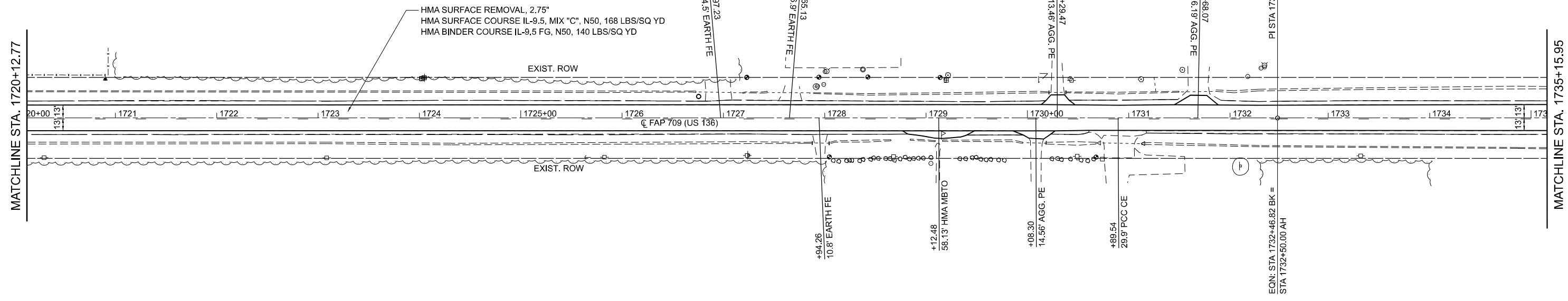
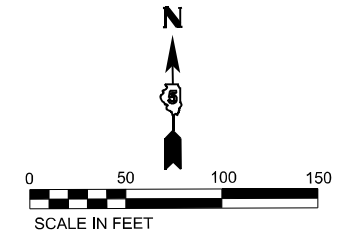
**PLAN SHEETS**

SCALE: 1:50 SHEET 9 OF 11 SHEETS STA. 1690+12.77 TO STA. 1720+12.77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	29
CONTRACT NO. 70A93				

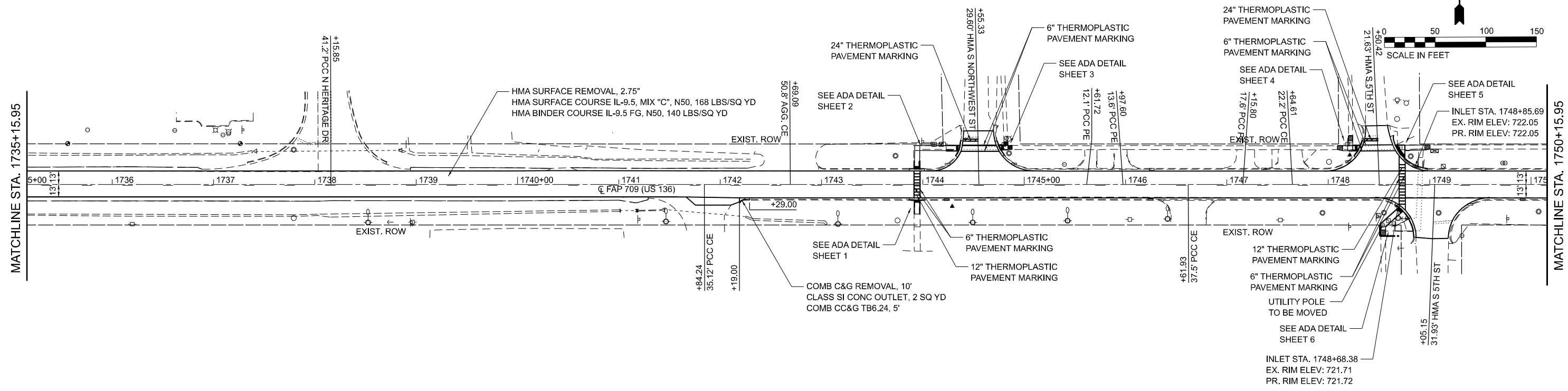
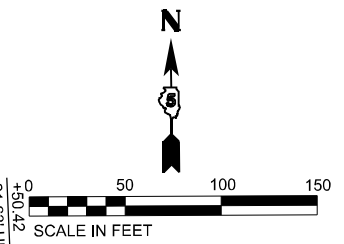
ILLINOIS FED. AID PROJECT

S36 T22N R7E



S1 T21N R7E

S36 T22N R7E



S1 T21N R7E

MODEL: I:\S36 T22N R7E (CONV) - Rm 19 (S1) - 101  
FILE NAME: P:\S36 T22N R7E (CONV) - Rm 19 (S1) - 101 - 101.DOT PFB 19-04-2023 05:10:08  
C:\Users\jacob\OneDrive\Documents\Drawings\2023\709\03-24-23\pfb.dwg



USER NAME = kulrich  
DESIGNED - LCS  
DRAWN - LCS  
CHECKED - RLH  
DATE -  
PLOT SCALE = 0.16666633 1/16"  
PLOT DATE = 2/27/2023

DESIGNED - LCS  
DRAWN - LCS  
CHECKED - RLH  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

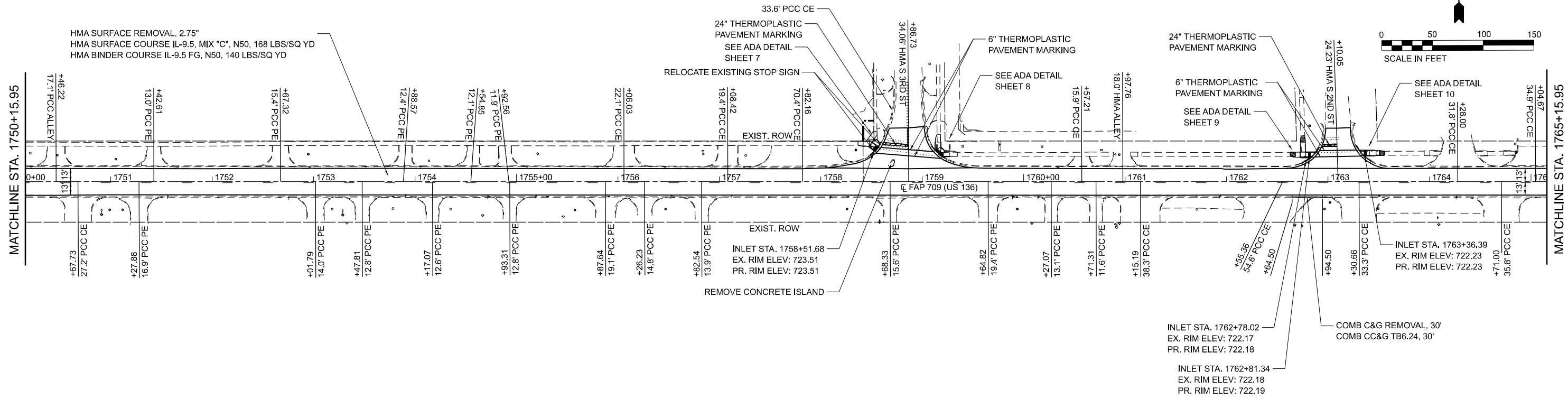
PLAN SHEETS

SCALE: 1:50 SHEET 10 OF 11 SHEETS STA. 1720+12.77 TO STA. 1750+15.95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	30
CONTRACT NO. 70A93				

ILLINOIS FED. AID PROJECT

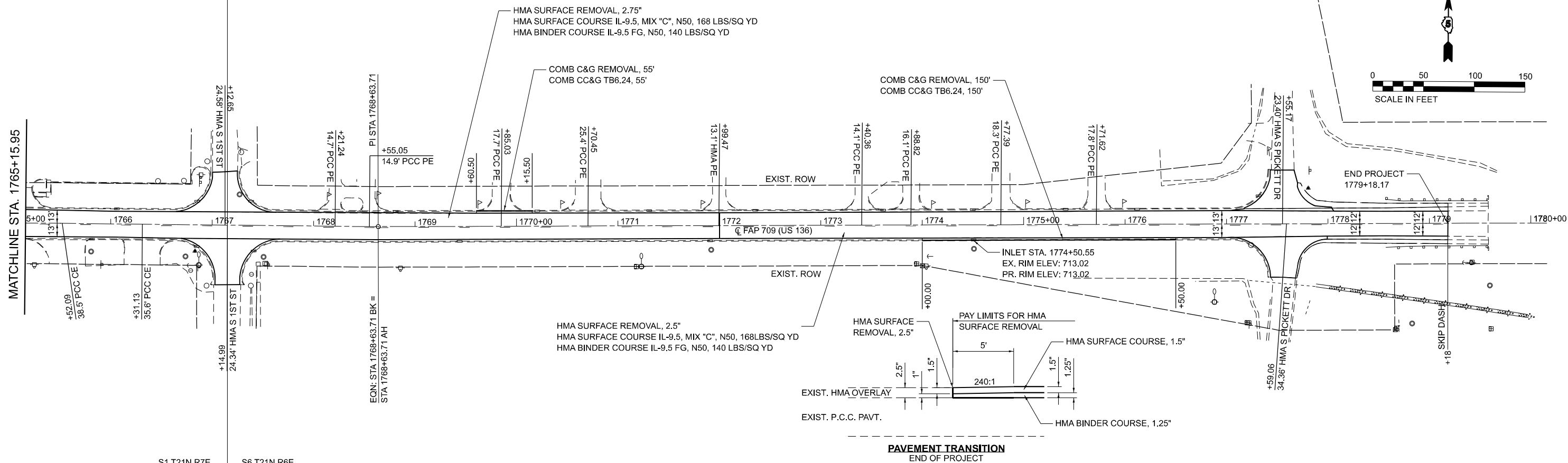
S36 T22N R7E



S1 T21N R7E

S36 T22N R7E

S31 T22N R8E



S1 T21N R7E

S6 T21N R6E

MODEL: I:\S36 T22N R7E (CONV) - Rte 21 (S1765) FILE NAME: P:\S36 T22N R7E (CONV) - Rte 21 (S1765) - IDOT FTE 199-027.DS\_VL\_Cadrel\_W00#31282.mxd CADProject: D:\mhp\p0570933\h4\p0570933.dgn



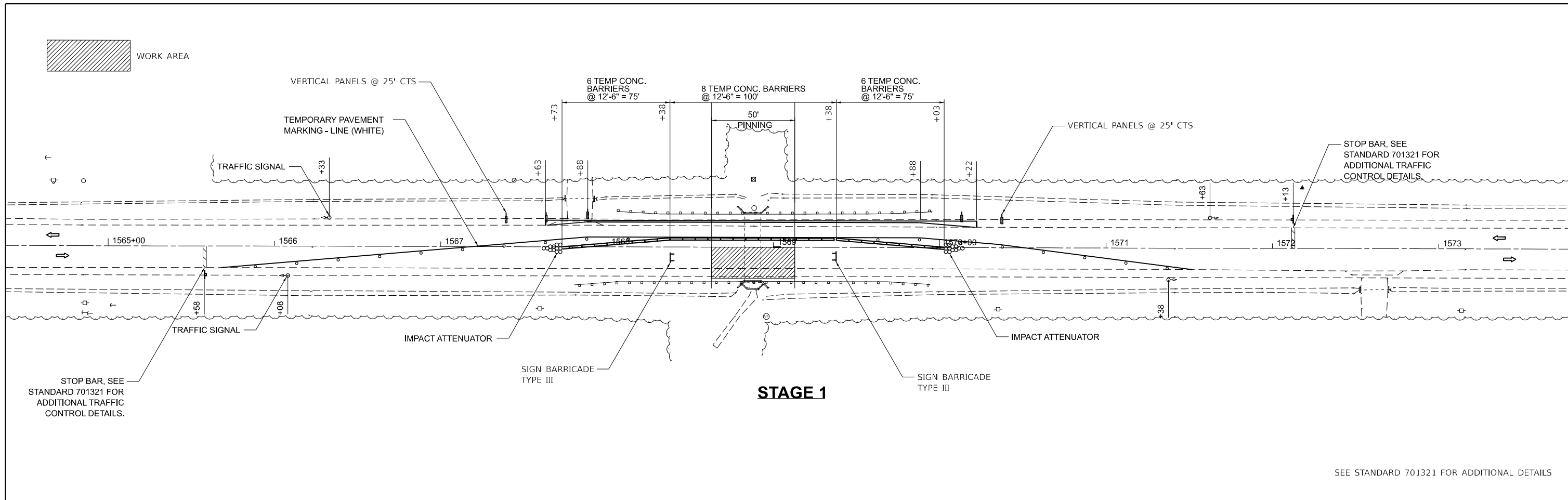
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DRAWN - LCS	REVISED -	
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

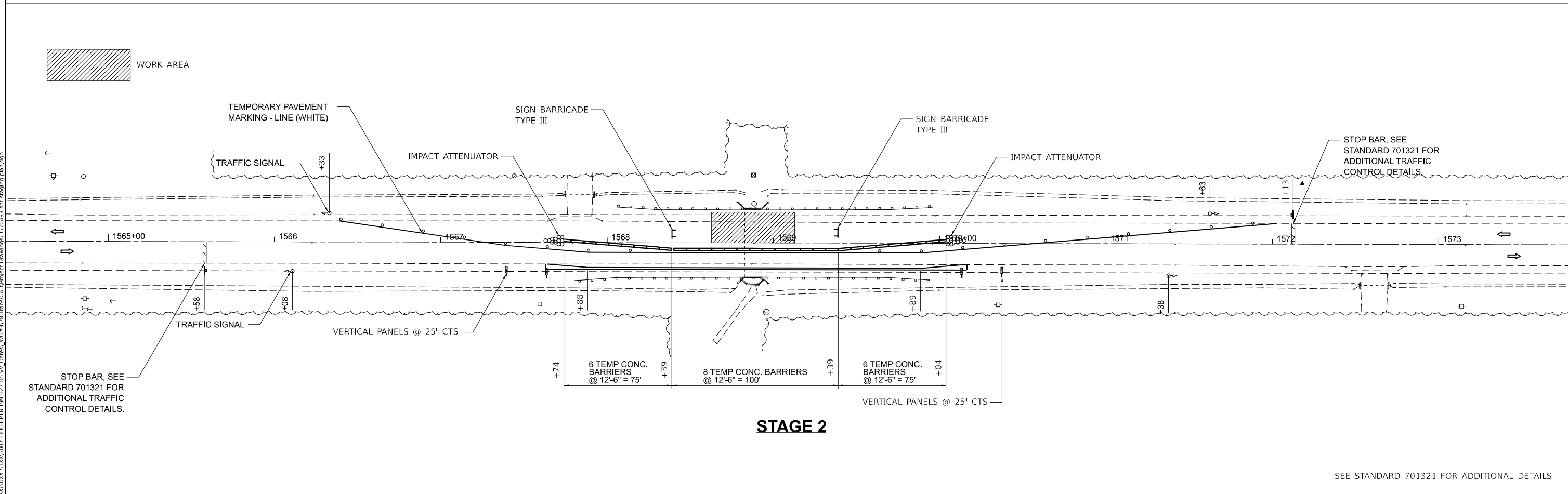
**PLAN SHEETS**

SCALE: 1:50      SHEET 11 OF 11 SHEETS      STA. 1750+15.95 TO STA. 1779+18.17

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 31
CONTRACT NO. 70A93				ILLINOIS FED. AID PROJECT



SEE STANDARD 701321 FOR ADDITIONAL DETAILS



SEE STANDARD 701321 FOR ADDITIONAL DETAILS

MODEL: staging1.dwg [1/24/21]  
 FILE NAME: P:\S\X\05\15\15007 - I\DOT P\B 199-027 DS\_VV\_Garret\_W04\308-TransitCAD\Project Drawings\0570A03-sh-staging\_pln3.dwg



USER NAME = kulrich	DESIGNED - LCS	REVISED -
	DRAWN - LCS	REVISED -
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN**  
 SCALE: 1"=30'    SHEET 1    OF 1    SHEETS    STA.    TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 32
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				





70A93 WIDTH RESTRICTION SIGNING DETAIL

MODEL: \\b3-1\c\proj\1  
 FILE NAME: P:\3\X\50\X-51\X\5007 - I.DOT.PTB.199-027.D5.VI\_Gates.W04#318-TransCAD\Project Drawings\0570A93-ah1\_Width Restriction Signing.dgn



USER NAME =	kuirich	DESIGNED -	REVISIED -
		DRAWN -	REVISIED -
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PLOT DATE =	2/27/2023	DATE -	REVISIED -

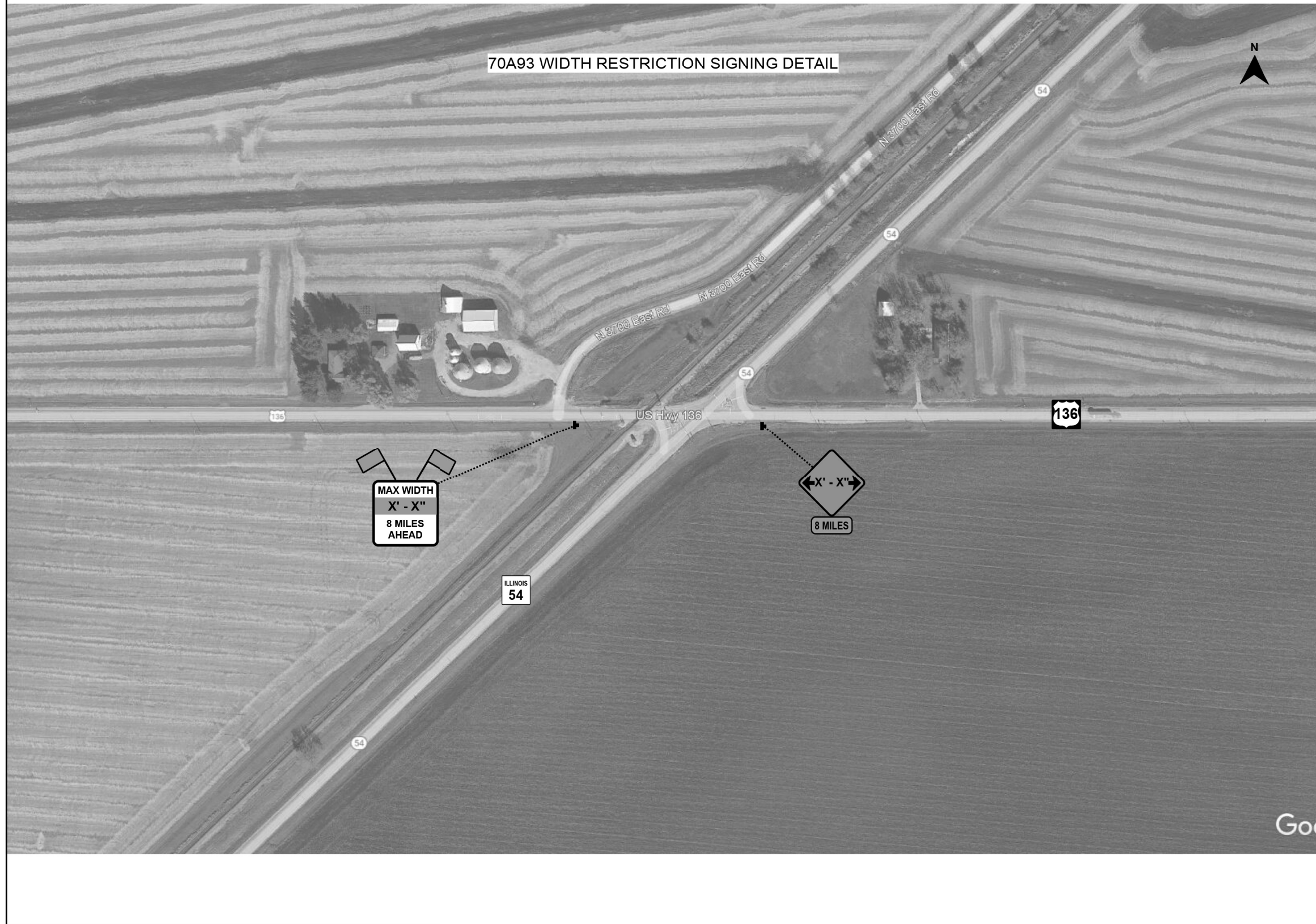
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING PLAN**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	33
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

70A93 WIDTH RESTRICTION SIGNING DETAIL



MODEL: \\03-215-1\cadd\1\184\003222\184-003222.dwg  
 FILE NAME: P:\184\003222\184-003222.dwg  
 USER: kullrich  
 DATE: 2/27/2023



USER NAME = kullrich	DESIGNED -	REVISED -
PLOT SCALE = 0.16666667 1/ in.	DRAWN -	REVISED -
PLOT DATE = 2/27/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING PLAN

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	34
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

5062001

The Board of Education of  
Fisher Community Unit School District No. 1

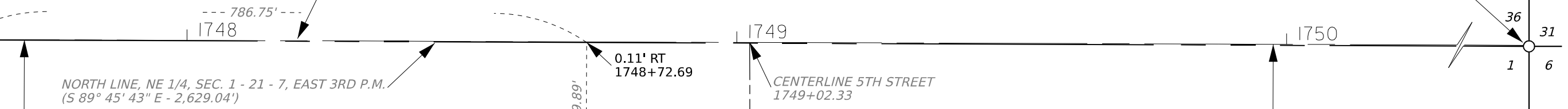
PART OF THE NORTH ONE-HALF (N 1/2) OF THE NORTHEAST QUARTER (NE 1/4)  
OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN,  
SITUATED IN CHAMPAIGN COUNTY, ILLINOIS.

ROUTE \* SECTION (104)RS-2 COUNTY CHAMPAIGN  
\* FAP ROUTE 709 (US 136) CONTRACT NO. 70A93

TOTAL ROW AREA REQUIRED = 275 SF = 0.006 AC. +/-

NE COR., NE 1/4, SEC. 1, T. 21 N., R. 7 E., 3RD P.M.  
1.11' RT. STA 1767+14.98  
TOWNSHIP/RANGE CORNER  
SEE MON. REC. DOC. NO. 2012R17996  
MAG NAIL & BRASS TAG PER MON. REC.  
NAIL FOUND THIS SURVEY 2.35' SE OF PK NAIL & WASHER

P.O.C.  
NW COR., NE 1/4, SEC. 1, T. 21 N., R. 7 E., 3RD P.M.  
0.34' LT. STA 1740+85.94  
SEE MON. REC. DOC. NO. 2000R20293  
NAIL  
EXIST. SURVEYED CENTERLINE FAP ROUTE 709 (U.S. 136) (S 89° 47' 36" E)



NORTH LINE, NE 1/4, SEC. 1 - 21 - 7, EAST 3RD P.M.  
(S 89° 45' 43" E - 2,629.04')

FAP 709 (U.S. 136)

40' RT 1748+47.67

S 0° 14' 17" W - 39.89'

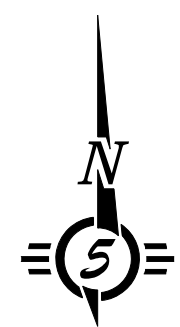
0.11' RT 1748+72.69

CENTERLINE 5TH STREET  
1749+02.33

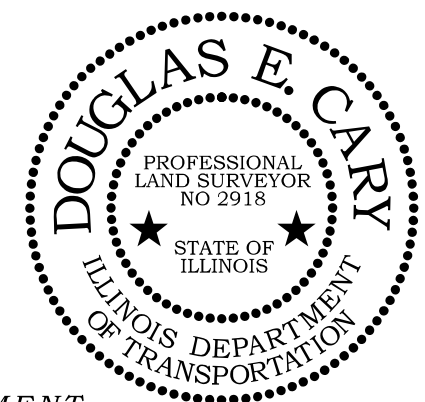
EXISTING R.O.W. LINE PREVIOUSLY DEDICATED R.O.W. (SEE DEED BK 226, PG 619) EXISTING R.O.W. LINE

**LEGEND**  
● IRON PIN W/IDOH CAP TO BE SET  
○ IRON PIN FOUND (UON)  
[100.00'] INDICATE DISTANCE BETWEEN FOUND IPF'S

**COURSE and DISTANCE TAGS**  
L1 = S 0° 16' 30" E - 11.00'  
L2 = N 89° 47' 36" W - 25.00'  
L3 = N 0° 16' 30" W - 11.00'  
L4 = S 89° 47' 36" E - 25.00'



**NOTE**  
BEARINGS BASED ON ILLINOIS  
STATE PLANE COORDINATES,  
EAST ZONE NAD 83 (2011 ADJ.)



**SURVEYOR'S STATEMENT**  
I, DOUGLAS E. CARY, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2918,  
DO HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF,  
THE PLAT OF SURVEY SHOWN HEREON IS A TRUE AND CORRECT  
REPRESENTATION OF A SURVEY MADE UNDER MY DIRECT SUPERVISION.  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS  
MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FIELD WORK TO BE COMPLETED UPON EXECUTION OF CONVEYANCE  
OF PROPOSED RIGHT OF WAY ACQUISITION.

DOUGLAS E. CARY DATE  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2918  
LICENSE EXPIRES: 11/30/2022

**RIGHT OF WAY PLAT**

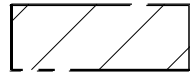
SCALE: 1"= 20' DATE 06.17.2021 JOB NO. R-95-006-20

BY	DATE	COMPUTED	CHECKED	INKED	INK CHECKED
R.O.W.	PLAT	NOTE BOOK	NO.		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NOTES REGARDING PROPERTY MONUMENTS FOUND ALONG WEST ROW 3RD ST.

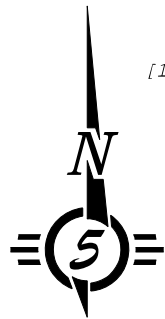
- 1: IPF ON PREVIOUSLY SURVEYED AND ACCEPTED W. ROW LINE 3RD ST. 1.2' E. OF PLATTED (70') W. ROW LINE 3RD ST.
- 2: IPF ON PREVIOUSLY SURVEYED AND ACCEPTED W. ROW LINE 3RD ST. 1.1' E. OF PLATTED (70') W. ROW LINE 3RD ST.
- 3: IPF ON PREVIOUSLY SURVEYED AND ACCEPTED W. ROW LINE 3RD ST. 1.3' E. OF PLATTED (70') W. ROW LINE 3RD ST.



TOTAL ROW AREA REQUIRED = 240 SF = 0.006 AC. +/-

LEGEND

- IRON PIN W/IDOH CAP TO BE SET
- IRON PIN FOUND (Unless Otherwise Noted)
- [100.00'] INDICATE DISTANCE BETWEEN FOUND IPF'S



COURSE and DISTANCE TAGS

- L1 = N 89° 47' 36" W - 12.00'
- L2 = N 0° 16' 37" W - 20.00'
- L3 = S 89° 47' 36" E - 12.00'
- L4 = S 0° 16' 37" E - 20.00'

DATE	BY	COMPUTED	CHECKED	INKED	INK CHECKED

R.O.W. PLAT	NOTE BOOK	NO.

ROUTE \* SECTION (104)RS-2 COUNTY CHAMPAIGN  
\* FAP ROUTE 709 (US 136) CONTRACT NO. 70A93

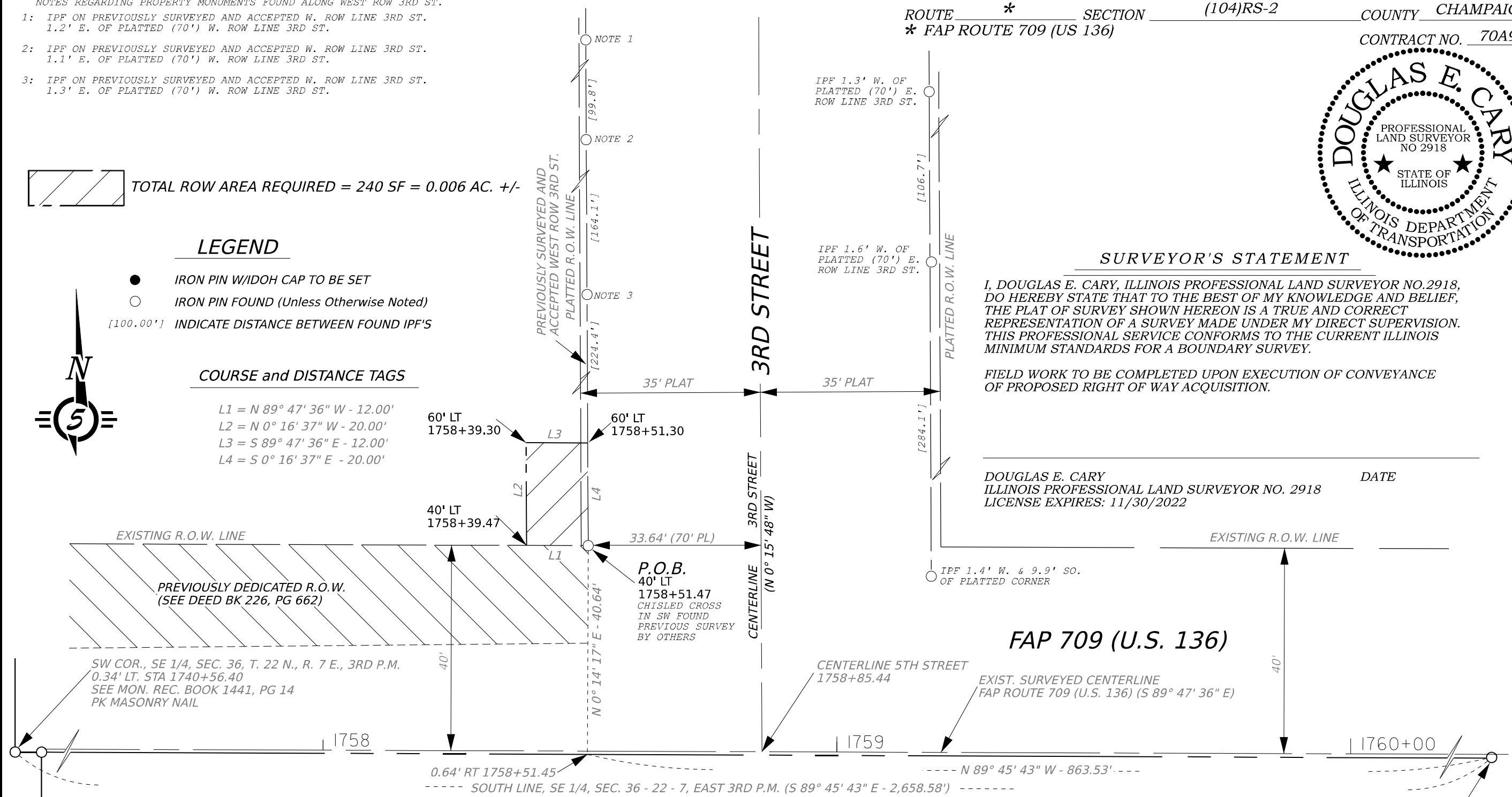


SURVEYOR'S STATEMENT

I, DOUGLAS E. CARY, ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2918, DO HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE PLAT OF SURVEY SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY MADE UNDER MY DIRECT SUPERVISION. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FIELD WORK TO BE COMPLETED UPON EXECUTION OF CONVEYANCE OF PROPOSED RIGHT OF WAY ACQUISITION.

DOUGLAS E. CARY DATE  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2918  
LICENSE EXPIRES: 11/30/2022



5062002

Dania Amairani Ortiz-Gonzalez

A PART OF LOT 13 OF A SUBDIVISION OF A PART OF THE SOUTH HALF (S 1/2) OF THE SOUTHEAST QUARTER (SE 1/4)

NOTE OF SECTION 36, TOWNSHIP 22 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, SITUATED IN CHAMPAIGN COUNTY, ILLINOIS.

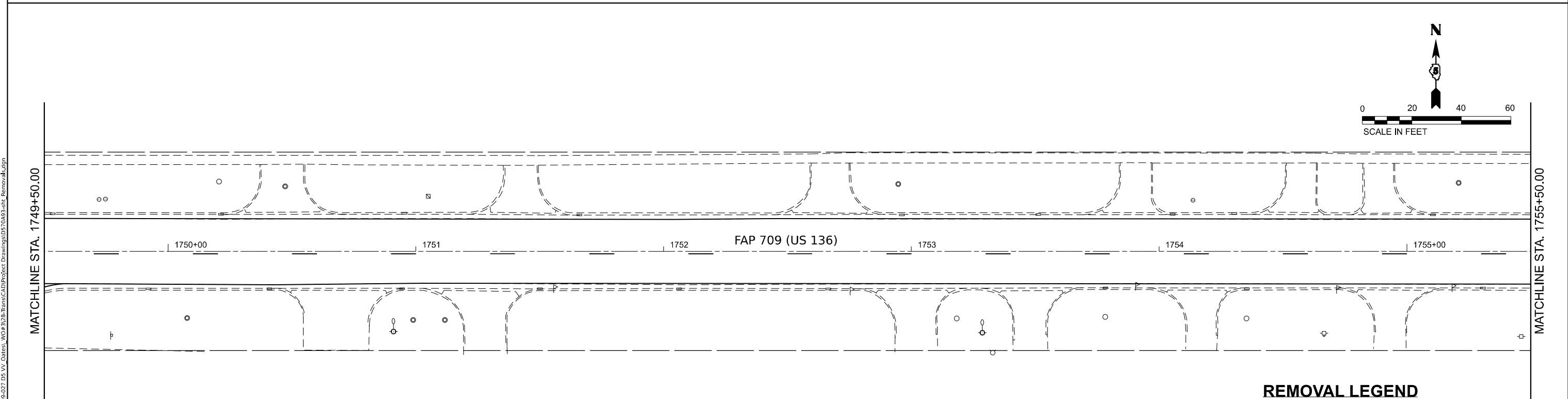
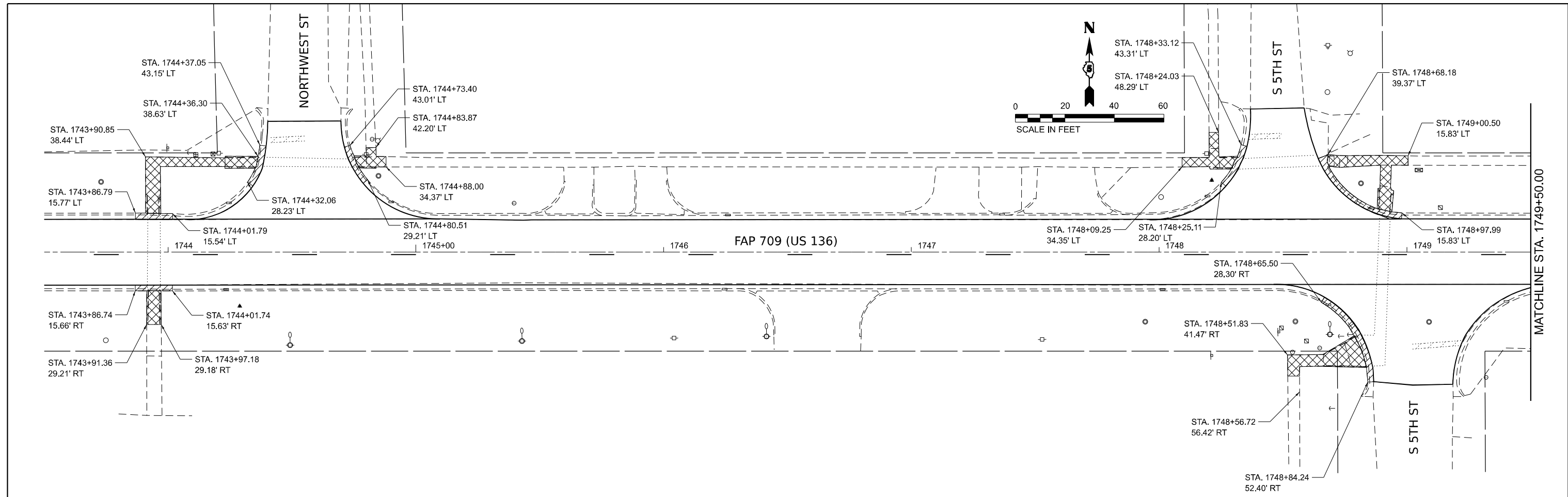
BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE NAD 83 (2011 ADJ.)

P.O.C.  
SE COR., SE 1/4, SEC. 36, T. 22 N., R. 7 E., 3RD P.M.  
NE COR., NE 1/4, SEC. 1, T. 21 N., R. 7 E., 3RD P.M.  
1.11' RT. STA 1767+14.98  
TOWNSHIP/RANGE CORNER  
SEE MON. REC. DOC. NO. 2012R17996  
MAG NAIL & BRASS TAG PER MON. REC.  
NAIL FOUND THIS SURVEY 2.35' SE OF PK NAIL & WASHER

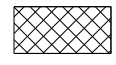
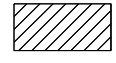
RIGHT OF WAY PLAT

SCALE: 1"= 20' DATE 01.19.2022 JOB NO. R-95-006-20

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 FILE NAME: P:\184\CONTRACTS\184\Removal\184\Removal.dwg



**REMOVAL LEGEND**

-  SIDEWALK REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL



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DRAWN - KAS	REVISED -	
PLOT SCALE = 0.16666667"/in.	CHECKED - RLH	REVISED -
PLOT DATE = 2/27/2023	DATE -	REVISED -

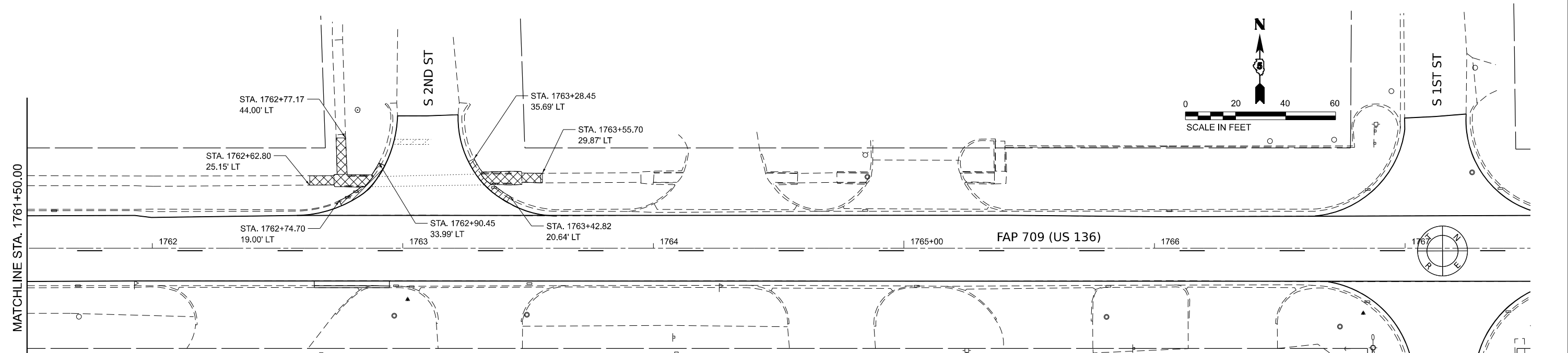
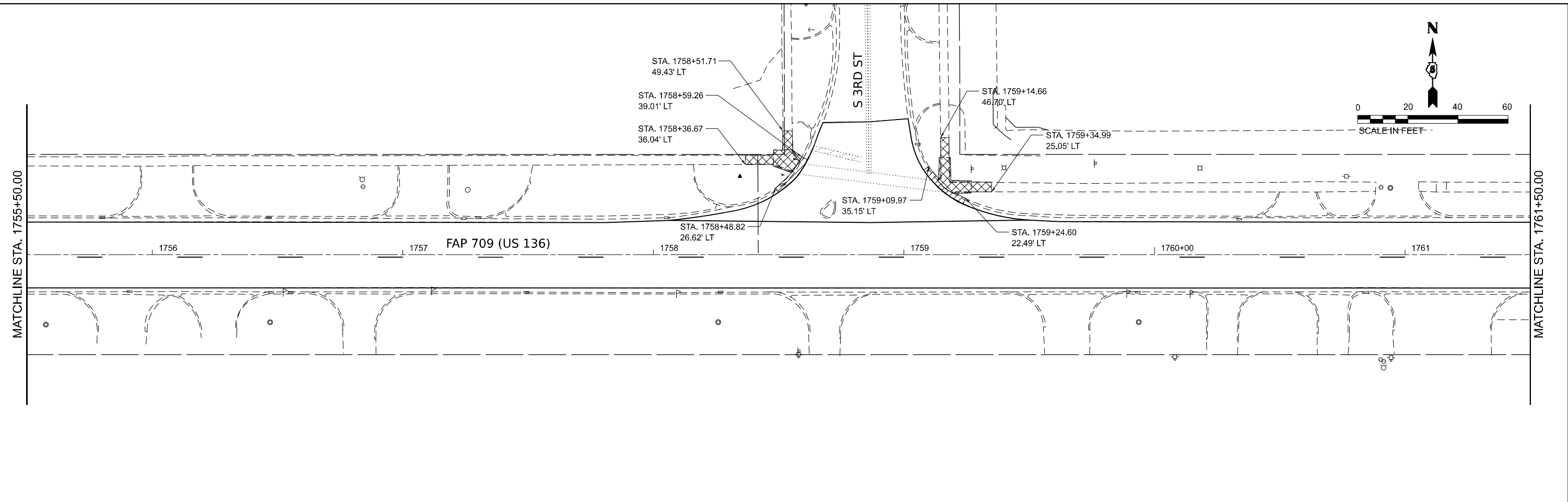
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN FOR ADA**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 1743+50 TO STA. 1755+50

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 37
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	

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 USER: kullrich



**REMOVAL LEGEND**

- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL



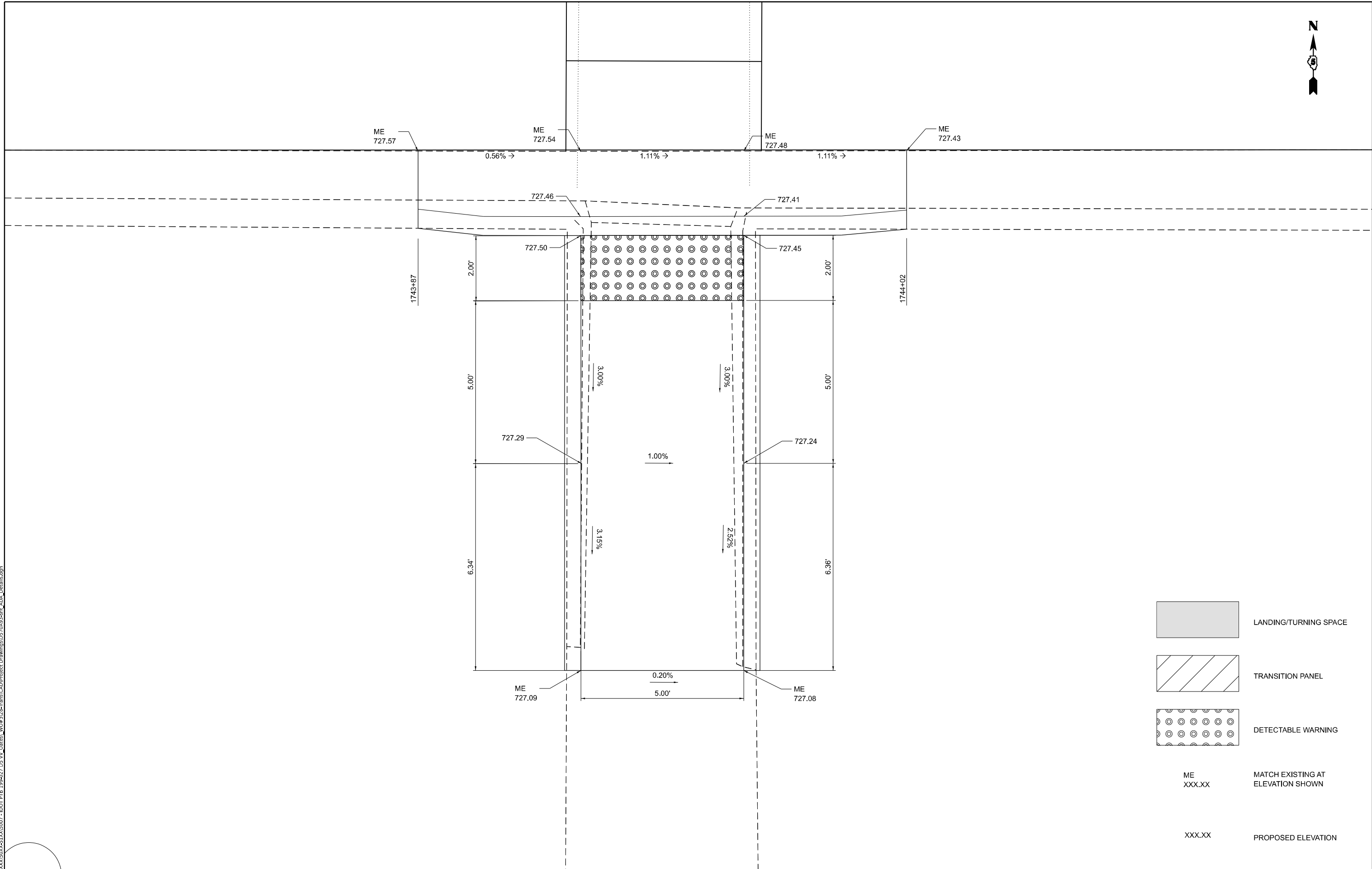
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN FOR ADA**

SCALE: 1"=20'     SHEET 2 OF 2 SHEETS     STA. 1743+50 TO STA. 1755+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	38
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



- LANDING/TURNING SPACE
- TRANSITION PANEL
- DETECTABLE WARNING
- ME  
XXX.XX
MATCH EXISTING AT  
ELEVATION SHOWN
- XXX.XX
PROPOSED ELEVATION

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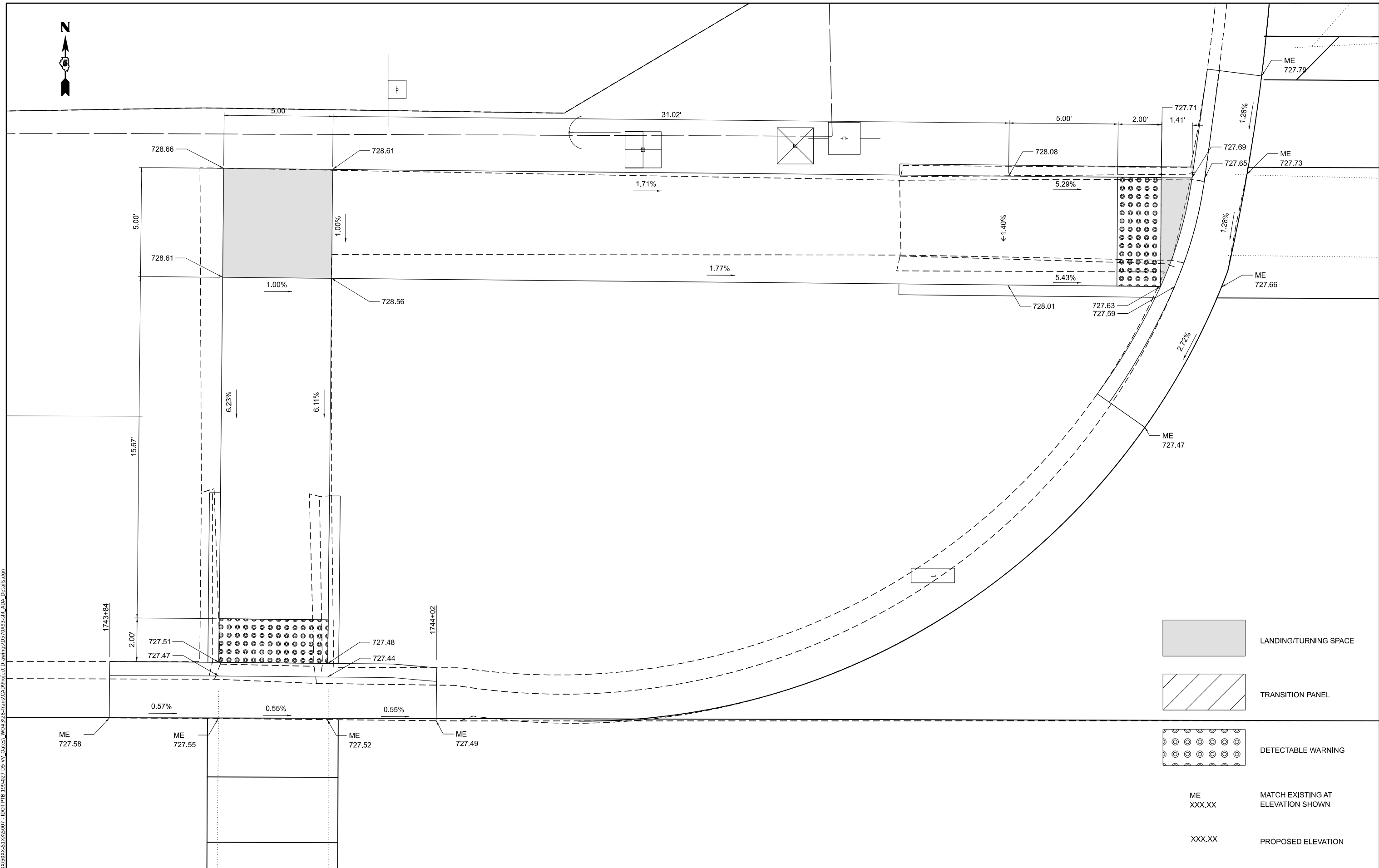
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET DETAILS**  
**ROUTE 136 AND S NORTHWEST ST INTERSECTION**

SCALE: 3/4"=1'-0"    SHEET 1    OF 10    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	39
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 2/27/2023	DATE -	REVISED -

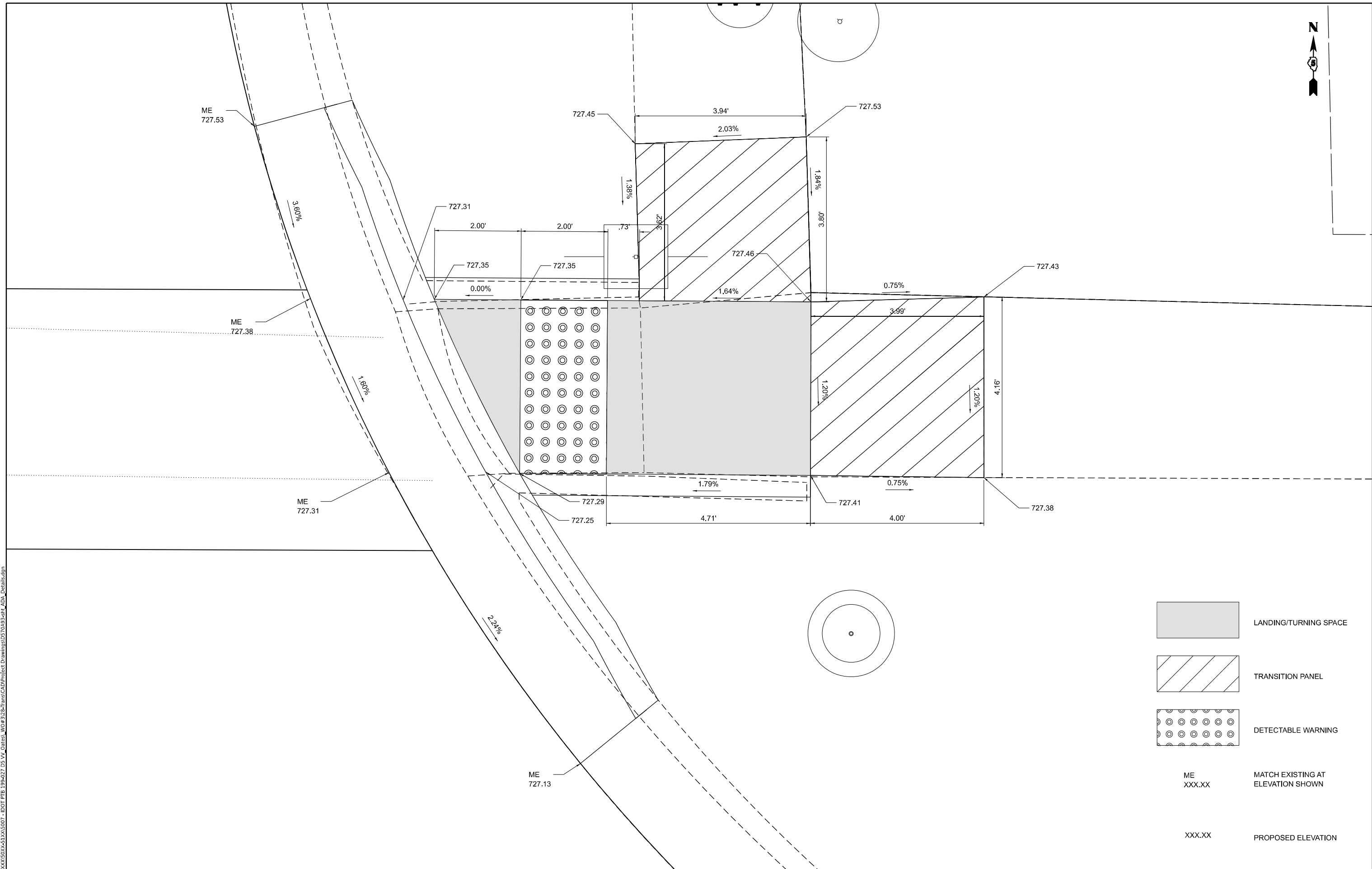
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

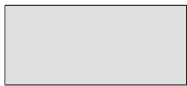

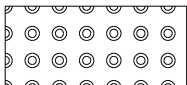
**ADA PLAN SHEETS**  
**ROUTE 136 AND S NORTHWEST ST INTERSECTION**

SCALE: 1/2"=1'-0"    SHEET 2    OF 10 SHEETS    STA.    TO STA.

F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 40
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				





-  LANDING/TURNING SPACE
-  TRANSITION PANEL
-  DETECTABLE WARNING
- ME  
XXX.XX MATCH EXISTING AT  
ELEVATION SHOWN
- XXX.XX PROPOSED ELEVATION

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PLOT DATE = 2/27/2023	DATE -	REVISED -

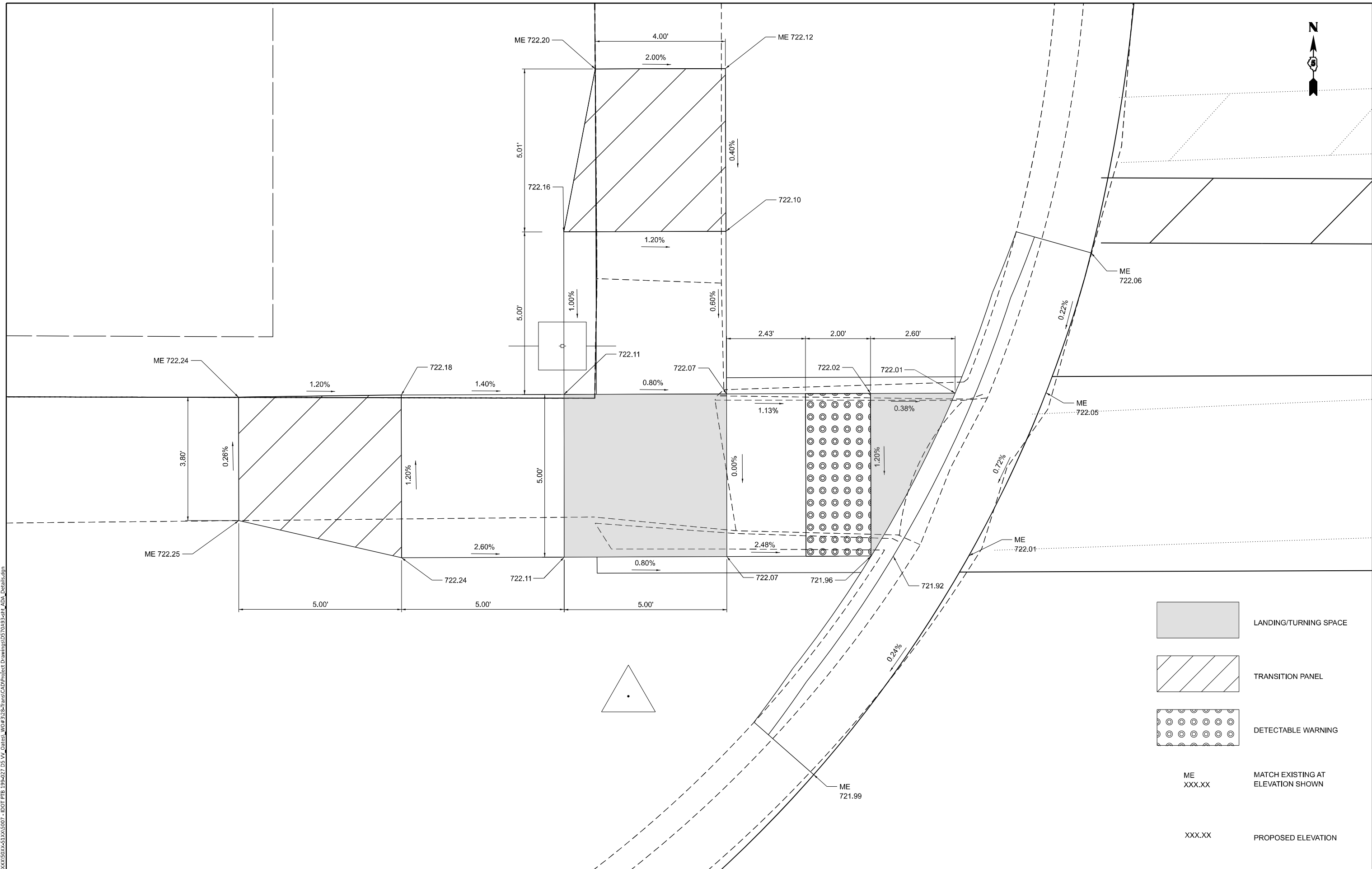
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

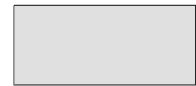
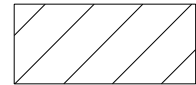
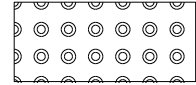
**ADA PLAN SHEET DETAILS**  
**ROUTE 136 AND S NORTHWEST ST INTERSECTION**  
 SCALE: 1"=1'-0"    SHEET 3 OF 10 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	41
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



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	LANDING/TURNING SPACE
	TRANSITION PANEL
	DETECTABLE WARNING
ME XXX.XX	MATCH EXISTING AT ELEVATION SHOWN
XXX.XX	PROPOSED ELEVATION

USER NAME = kulrich	DESIGNED - KAS	REVISED -
DRAWN - KAS	REVISED -	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - RLH	REVISED -
PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET DETAILS  
ROUTE 136 AND S 5TH ST INTERSECTION**

SCALE: 3/4"=1'-0"    SHEET 4    OF 10    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	42
CONTRACT NO. 70A93				

ILLINOIS FED. AID PROJECT





ME 722.14

0.33%

2.18'

0.57%

6.52'

722.12

20.00'

721.89

0.38%

5.2'

ME 721.87

ME 722.11

722.03

722.07

1.15%

1.20%

0.80%

3.14%

3.82'

5.00'



1.05%

721.85

ME 721.75

722.06

4.80'

1.31%

721.96

721.93

2.84'

0.49%

ME 722.01

0.11%

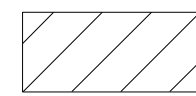
ME 722.00

ME 722.48

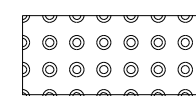
ME 722.10



LANDING/TURNING SPACE



TRANSITION PANEL



DETECTABLE WARNING

ME  
XXX.XX

MATCH EXISTING AT  
ELEVATION SHOWN

XXX.XX

PROPOSED ELEVATION

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PLOT DATE	= 2/27/2023

DESIGNED	- KAS
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CHECKED	- RLH
DATE	-


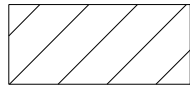
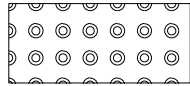
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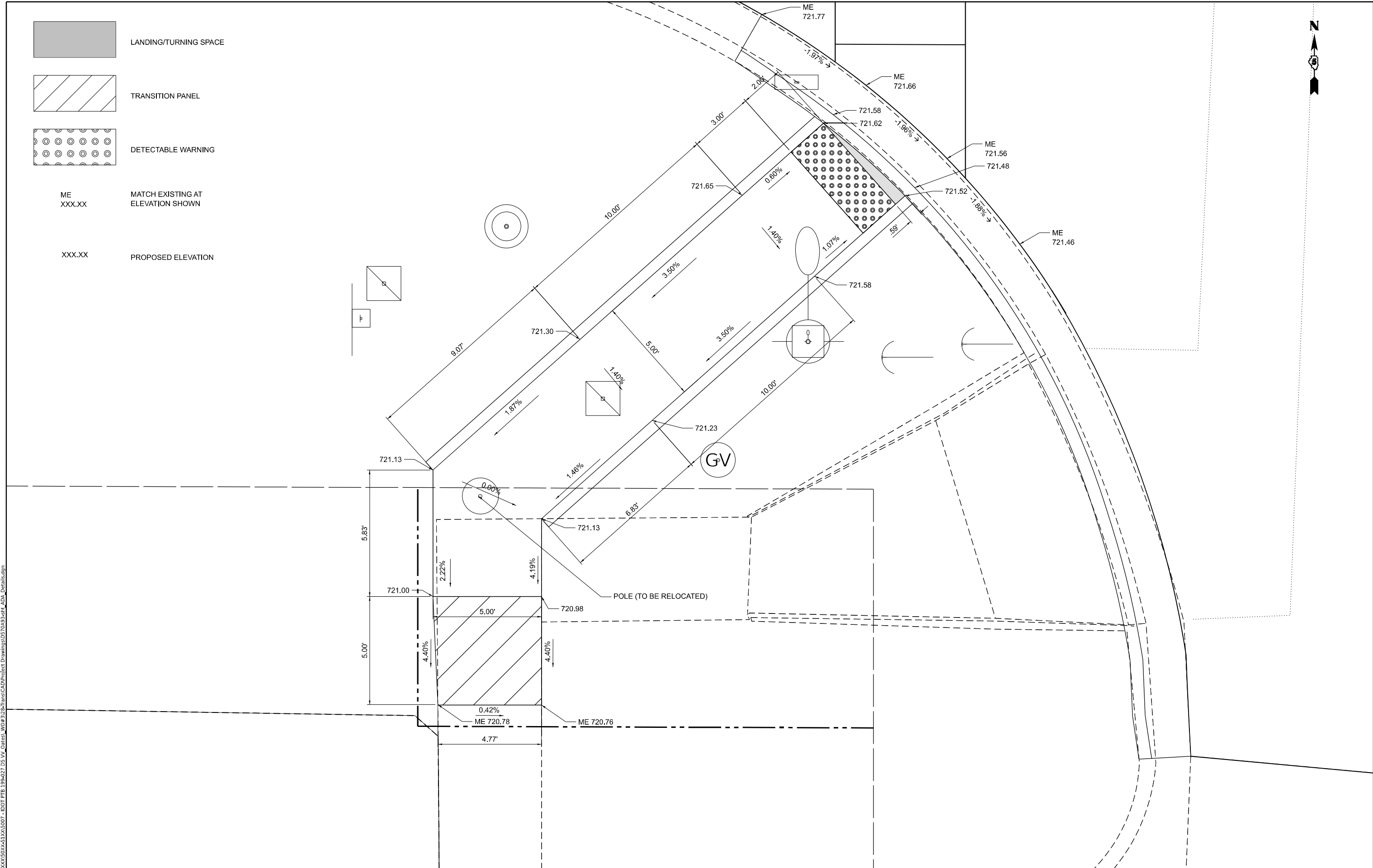
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA PLAN SHEET DETAILS  
ROUTE 136 AND S 5TH ST INTERSECTION

SCALE: 1/2"=1'-0" SHEET 5 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	43
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

-  LANDING/TURNING SPACE
-  TRANSITION PANEL
-  DETECTABLE WARNING
- ME  
XXX.XX      MATCH EXISTING AT  
                  ELEVATION SHOWN
- XXX.XX      PROPOSED ELEVATION



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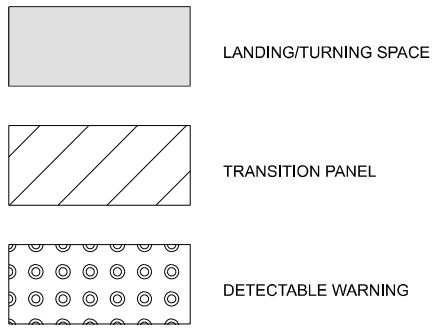
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET DETAILS  
ROUTE 136 AND S 5TH ST INTERSECTION**

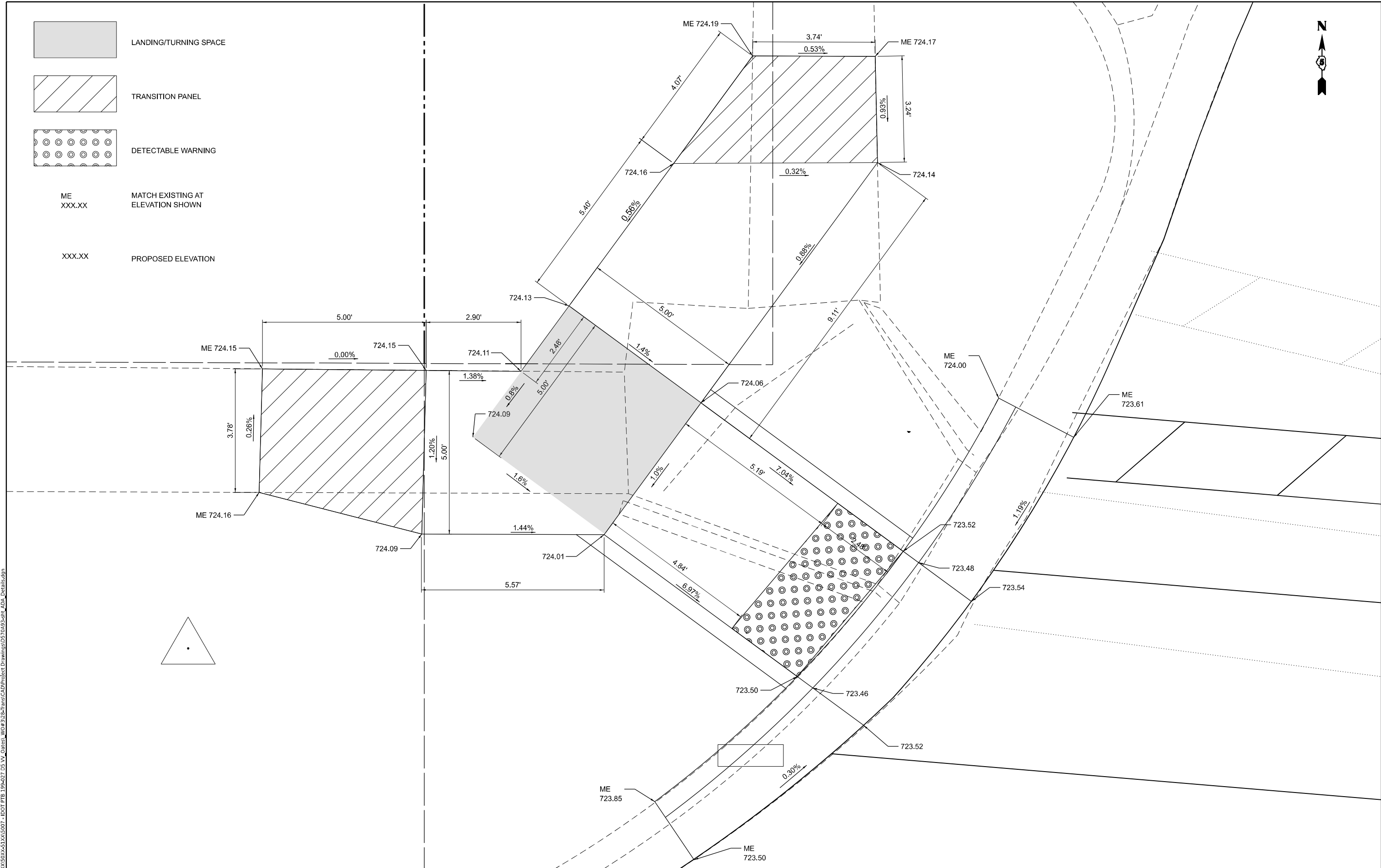
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	44
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



ME  
XXX.XX MATCH EXISTING AT  
ELEVATION SHOWN

XXX.XX PROPOSED ELEVATION



MODEL: ADA\_Detail\_715hw.dwg  
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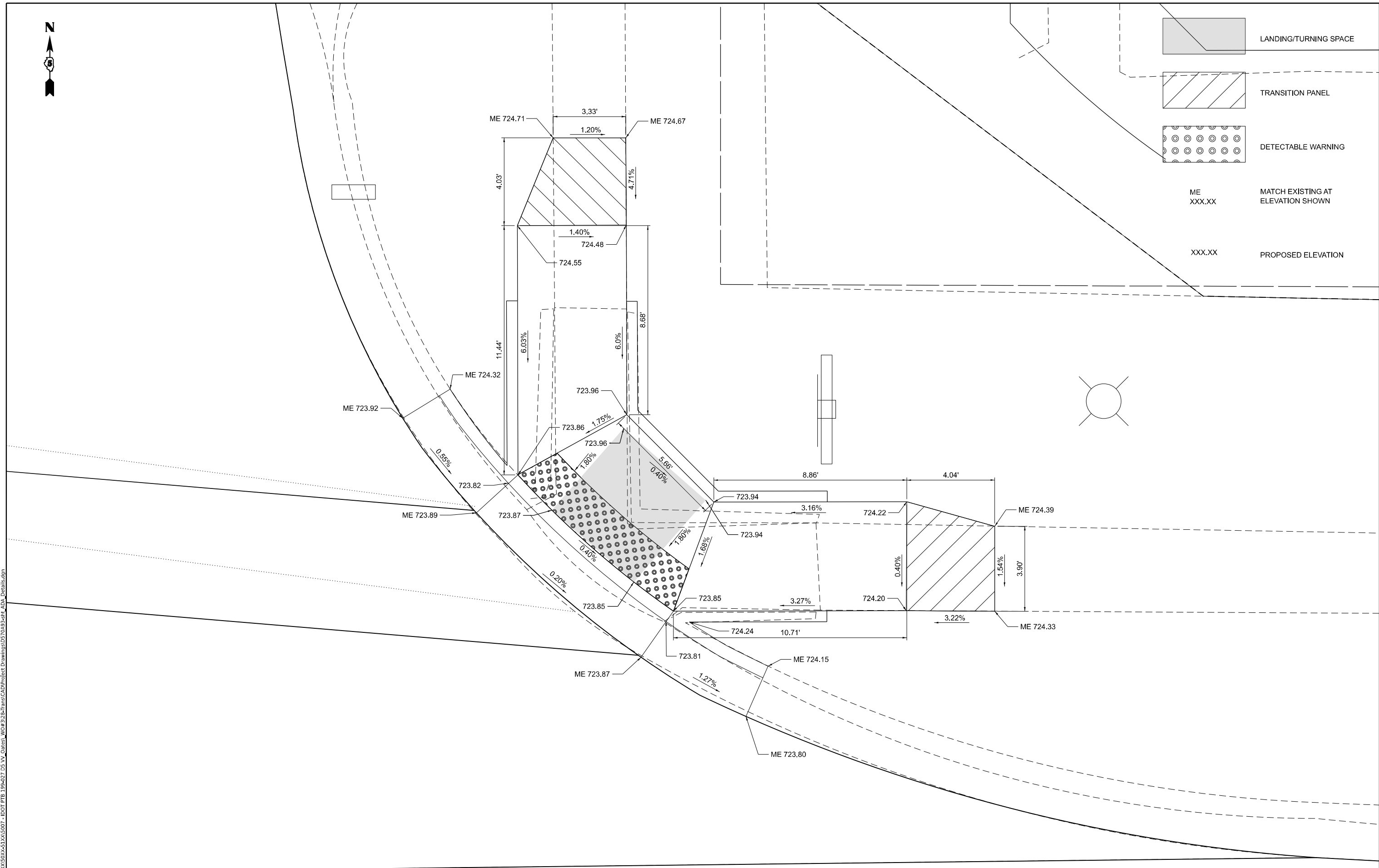
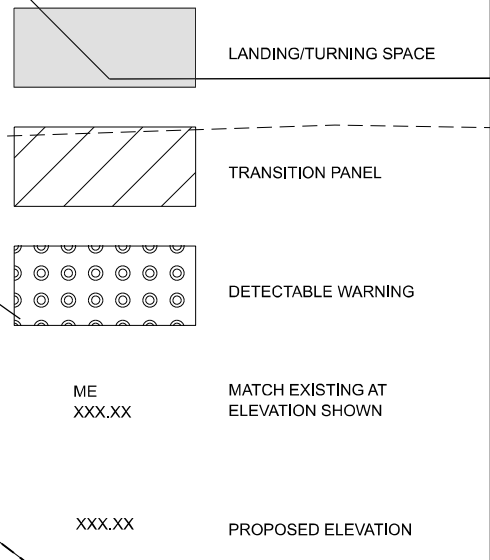
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET DETAILS**  
**ROUTE 136 AND S 3RD ST INTERSECTION**

SCALE: 3/4"=1'-0"    SHEET 7 OF 10 SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	45
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



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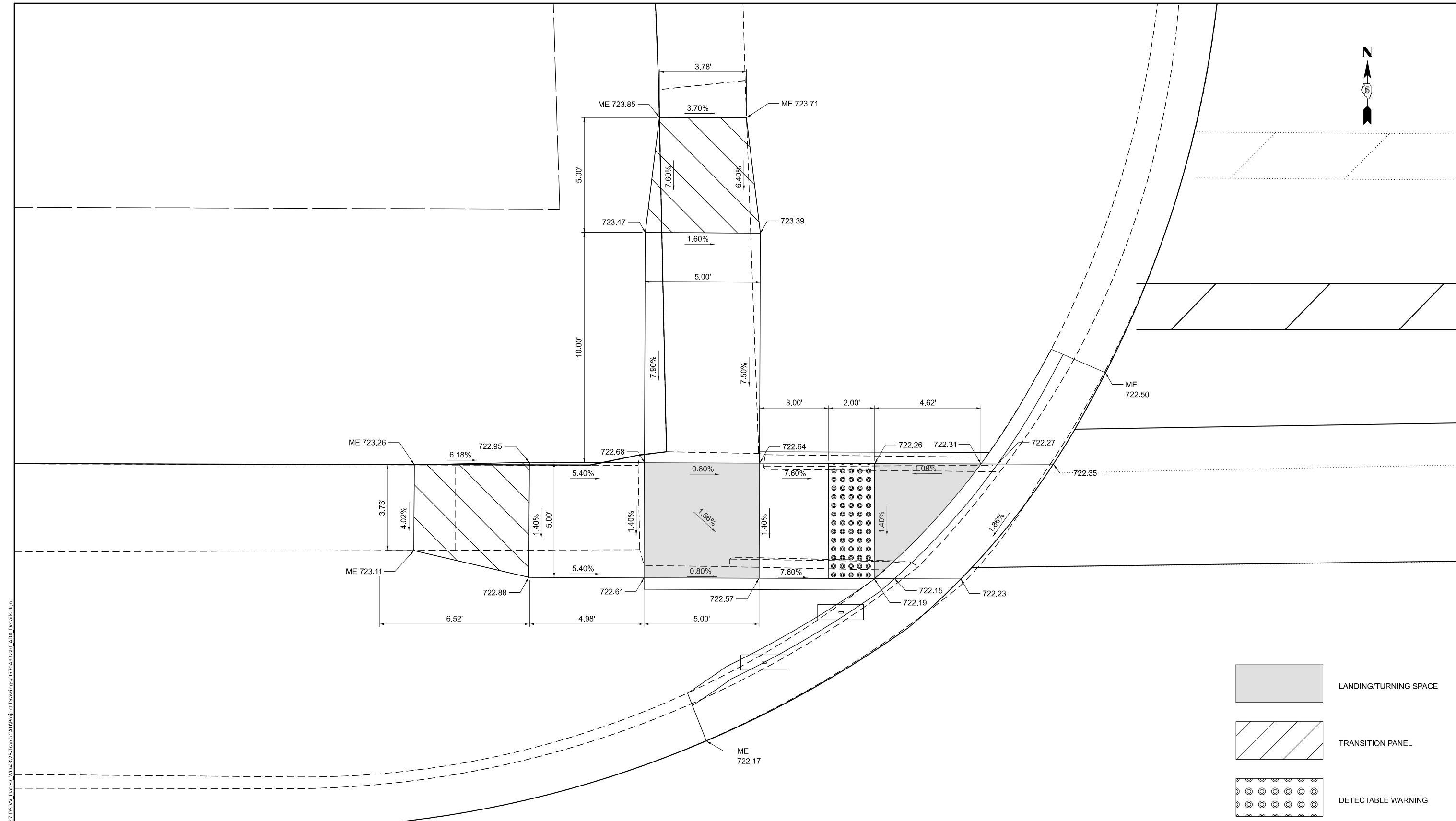



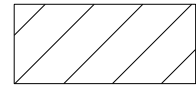
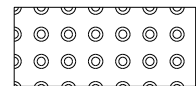
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PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ADA PLAN SHEET DETAILS</b> <b>ROUTE 136 AND S 3RD ST INTERSECTION</b>			
SCALE: 1/2"=1'-0"	SHEET 8	OF 10 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	46
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



-  LANDING/TURNING SPACE
-  TRANSITION PANEL
-  DETECTABLE WARNING

ME  
XXX.XX      MATCH EXISTING AT  
                  ELEVATION SHOWN

XXX.XX      PROPOSED ELEVATION

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DRAWING: ADA DETAILS



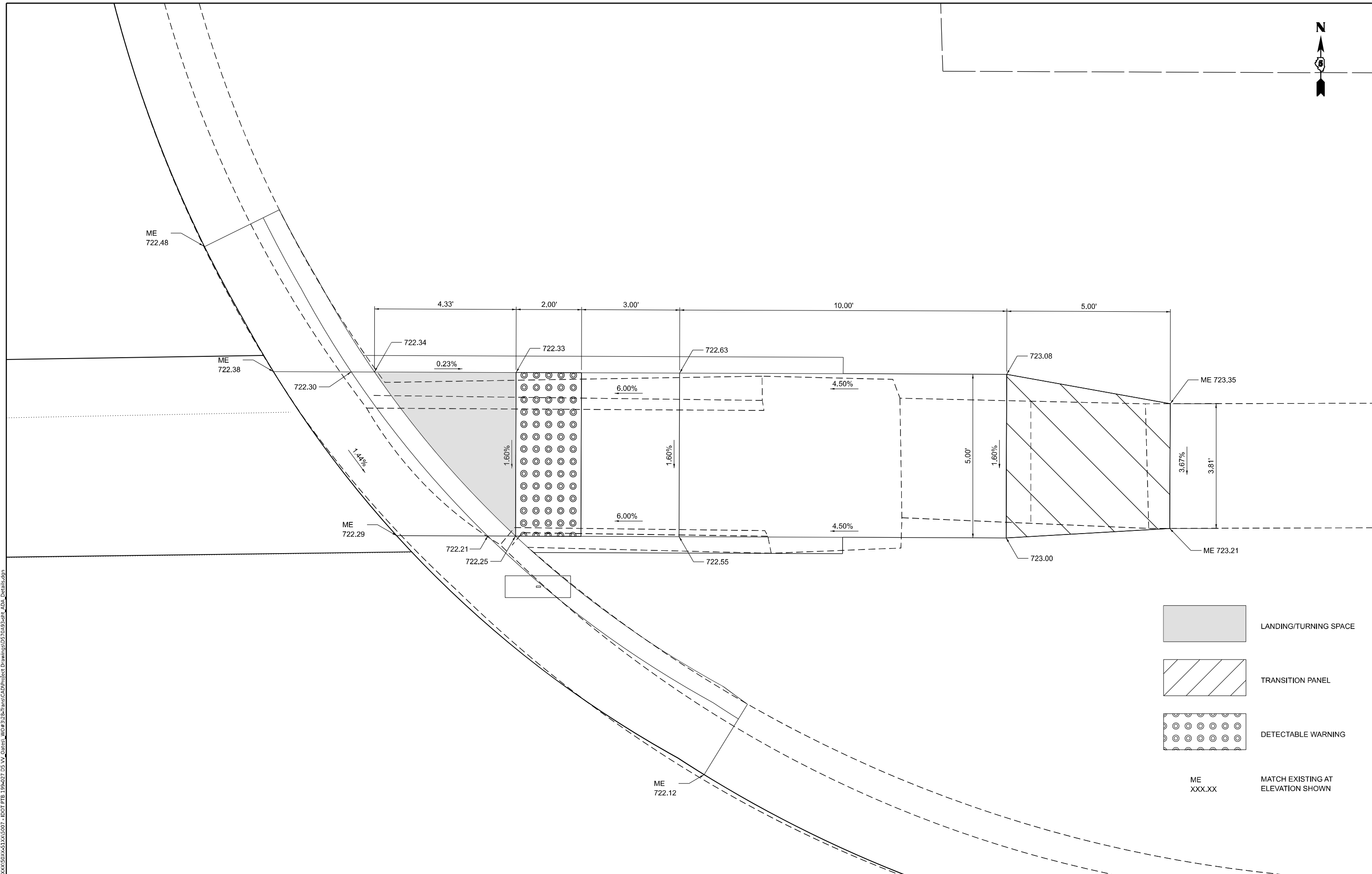
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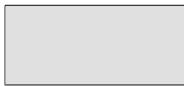
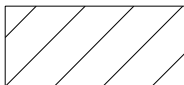
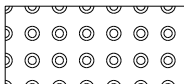
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET DETAILS**  
**ROUTE 136 AND S 2ND ST INTERSECTION**

SCALE: 3/4"=1'-0"      SHEET 9      OF 10      SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	47
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



-  LANDING/TURNING SPACE
-  TRANSITION PANEL
-  DETECTABLE WARNING

ME  
XXX.XX MATCH EXISTING AT  
ELEVATION SHOWN

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 PROJECT: 1504-001 - 1504-001 - 1504-001 - 1504-001 - 1504-001 - 1504-001 - 1504-001 - 1504-001 - 1504-001 - 1504-001  
 DATE: 2/27/2023



USER NAME = kulrich	DESIGNED - KAS	REVISED -
	DRAWN - KAS	REVISED -
PLOT SCALE = 0.16666633 1/16 in.	CHECKED - RLH	REVISED -
PLOT DATE = 2/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET DETAILS**  
**ROUTE 136 AND S 2ND ST INTERSECTION**

SCALE: 3/4"=1'-0"    SHEET 10 OF 10 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	48
CONTRACT NO. 70A93				

ILLINOIS FED. AID PROJECT



**LEGEND:**

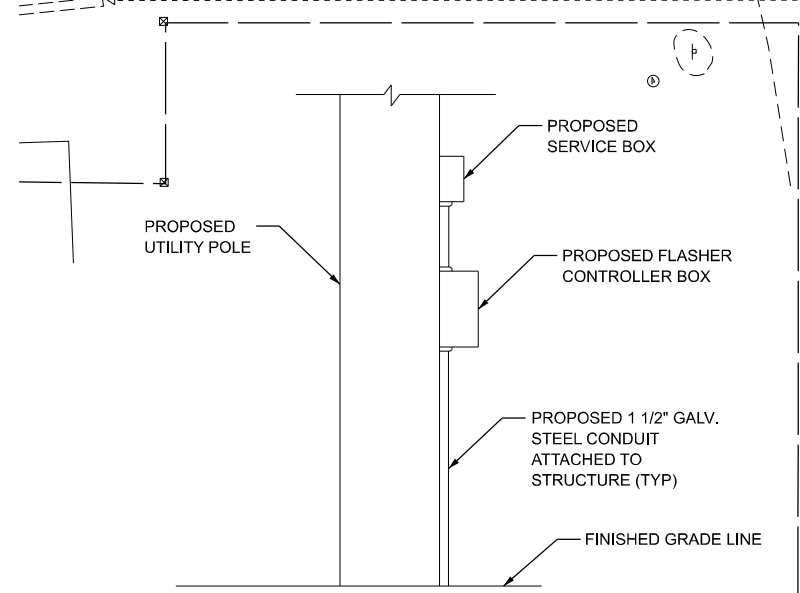
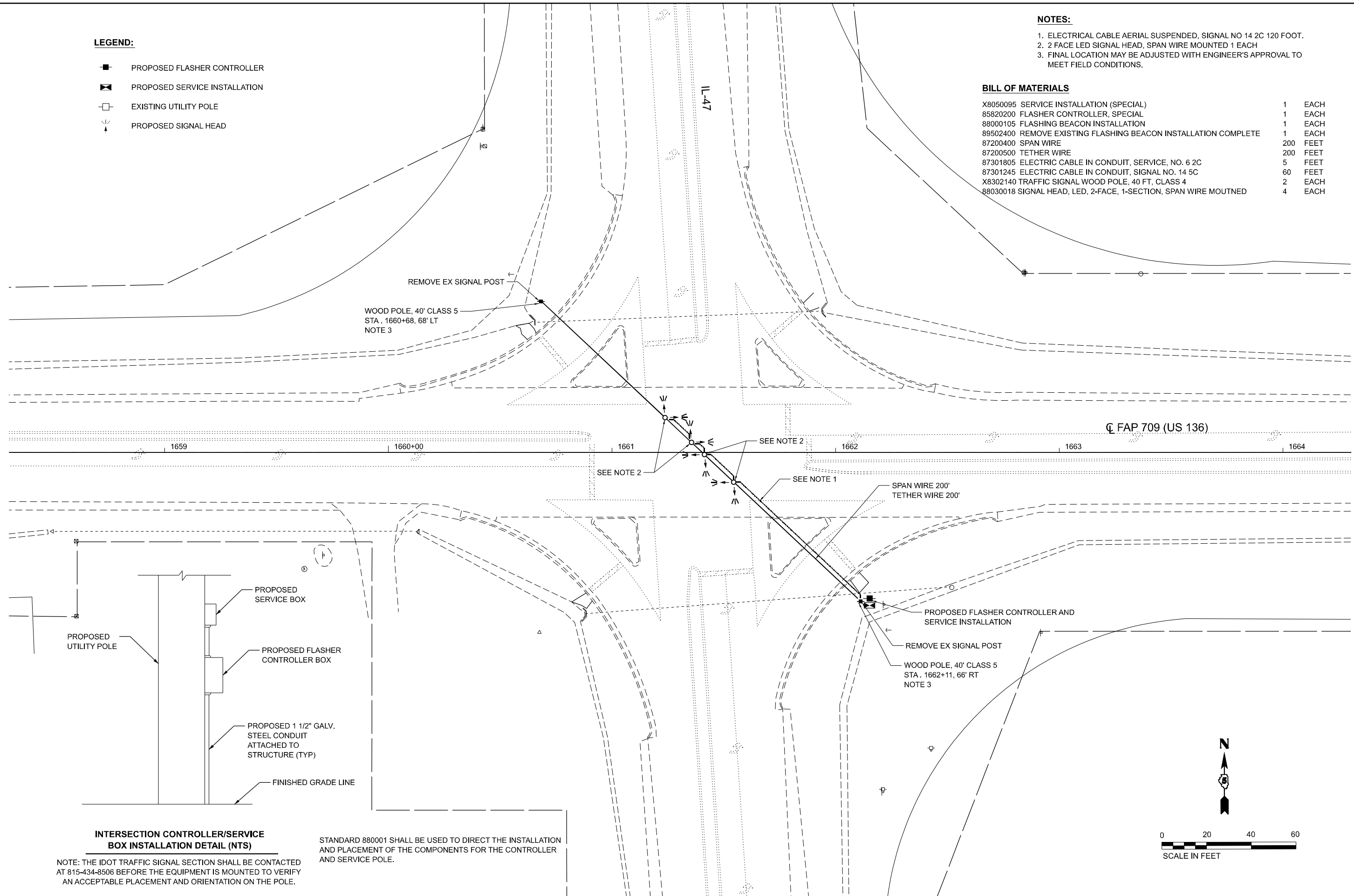
- PROPOSED FLASHER CONTROLLER
- ▣ PROPOSED SERVICE INSTALLATION
- EXISTING UTILITY POLE
- ▼ PROPOSED SIGNAL HEAD

**NOTES:**

1. ELECTRICAL CABLE AERIAL SUSPENDED, SIGNAL NO 14 2C 120 FOOT.
2. 2 FACE LED SIGNAL HEAD, SPAN WIRE MOUNTED 1 EACH
3. FINAL LOCATION MAY BE ADJUSTED WITH ENGINEER'S APPROVAL TO MEET FIELD CONDITIONS.

**BILL OF MATERIALS**

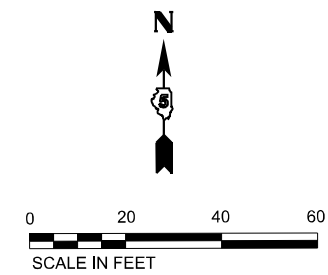
X8050095	SERVICE INSTALLATION (SPECIAL)	1	EACH
85820200	FLASHER CONTROLLER, SPECIAL	1	EACH
88000105	FLASHING BEACON INSTALLATION	1	EACH
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	1	EACH
87200400	SPAN WIRE	200	FEET
87200500	TETHER WIRE	200	FEET
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	5	FEET
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	60	FEET
X8302140	TRAFFIC SIGNAL WOOD POLE, 40 FT, CLASS 4	2	EACH
88030018	SIGNAL HEAD, LED, 2-FACE, 1-SECTION, SPAN WIRE MOUNTED	4	EACH



**INTERSECTION CONTROLLER/SERVICE BOX INSTALLATION DETAIL (NTS)**

NOTE: THE IDOT TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-434-8506 BEFORE THE EQUIPMENT IS MOUNTED TO VERIFY AN ACCEPTABLE PLACEMENT AND ORIENTATION ON THE POLE.

STANDARD 880001 SHALL BE USED TO DIRECT THE INSTALLATION AND PLACEMENT OF THE COMPONENTS FOR THE CONTROLLER AND SERVICE POLE.



MODEL: US316(COMBINED) - Title: Signal Plan (Sheet) FILE NAME: P:\S\2025\05\23\1507 - IDOT FTB 159422.DS\_VV\_Gates\W0328\TransCAD\project Drawings\057093\sh4-traffic\_signal.dgn

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	PLOT SCALE = 0.16666633 1/1 in.	DRAWN -	REVISED -
	PLOT DATE = 3/10/2023	CHECKED -	REVISED -
		DATE -	REVISED -

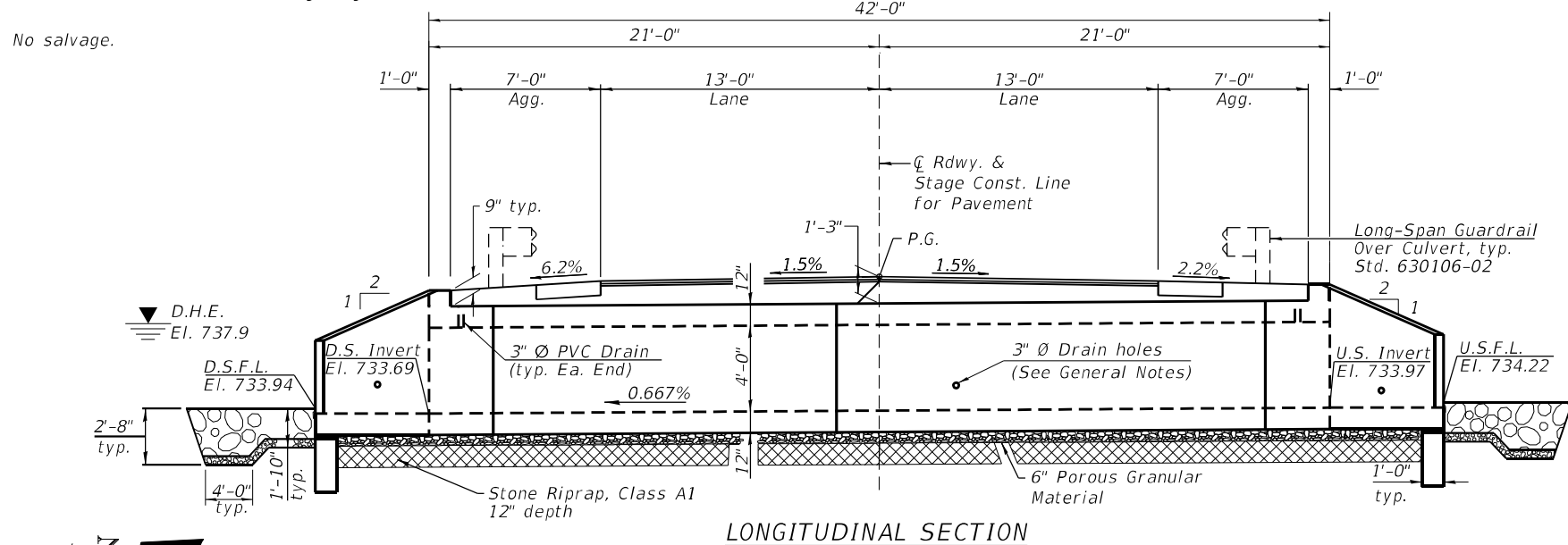
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGNAL PLAN</b>			
SCALE: 1:20	SHEET 01	OF 01 SHEETS	STA. 1658+00.00 TO STA. 1664+00.00

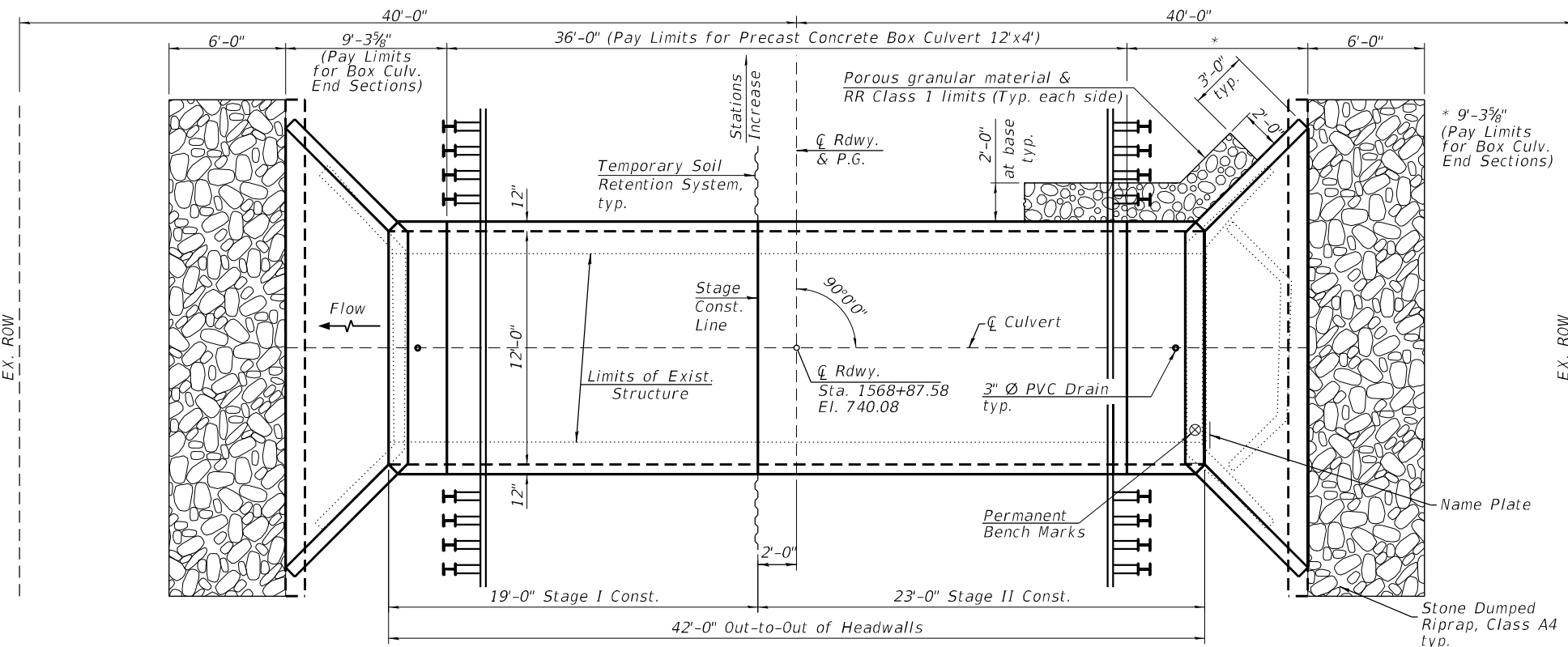
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	49
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

B.M. 1 Disk on top of SW corner of concrete wingwall of bridge at Sta. 1457+85.38, 24.98' Rt., Elev. 743.985.  
 Existing: SBI 119; originally built in 1932, reconstructed in 1972; with upstream drop structure.  
 The existing structure (SN 010-8064) is a single barrel reinforced concrete box culvert (10'x4') 42' out-out headwalls, 0° skew.  
 Traffic to be maintained utilizing stage construction.

No salvage.



LONGITUDINAL SECTION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Name Plates	Each	1
Precast Concrete Box Culverts 12'x4'	Foot	36
Box Culvert End Sections, Culvert No. 1	Each	2
Geocomposite Wall Drain	Sq. Yd.	82
Membrane Waterproofing System for Buried Structures	Sq. Yd.	82
Porous Granular Embankment	Cu. Yd.	217
Stone Riprap, Class A1	Ton	43
Stone Dumped Riprap, Class A4	Ton	32
Filter Fabric	Sq. Yd.	34
Temporary Soil Retention System	Sq. Ft.	188
Permanent Bench Marks	Each	1

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 The design fill height for this box is 1.25 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications. A cubical 2' x 2' x 2' min. deposit of CA 5, CA 7, or CA 11 wrapped in a fabric envelope shall be placed over the drain holes in accordance with Article 502.10 of the Standard Specifications.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps the Membrane Waterproofing System for Buried Structures.

INDEX OF SHEETS

1. General Plan and Elevation
2. Precast Concrete Box
3. Culvert Apron End Section Details
4. Stage Construction Details

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

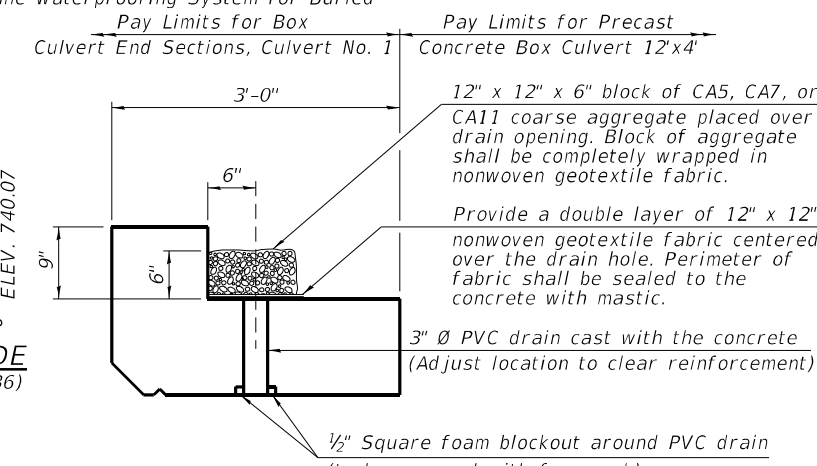
DESIGN STRESSES

PRECAST UNITS

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Fabric)  
 $f_y = 60,000$  psi (Reinforcement)

FIELD UNITS

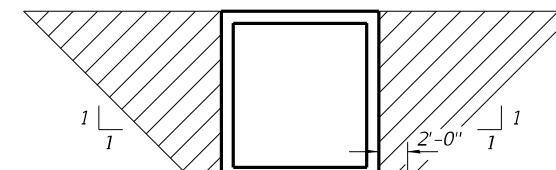
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)



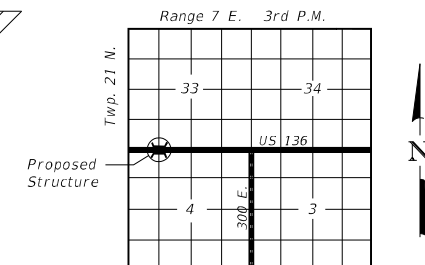
DRAIN DETAIL



PROFILE GRADE (Along  $\bar{C}$  US Rte. 136)



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT (Hatched area)



LOCATION SKETCH

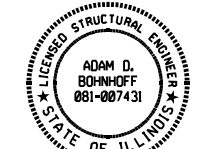
WATERWAY INFORMATION

Drainage Area = 1.3 Sq. Mi.		Exist. Overtopping Elev. = 740.01 @ Sta. 1570+00							
		Prop. Overtopping Elev. = 740.01 @ Sta. 1570+00							
Flood Yr.	Freq. C.F.S.	Q	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Exist.	Headwater El. Prop.		
Design	10	172	40	48	737.7	0.5	0.3	738.2	738.0
Base	50	274	40	48	737.9	1.2	0.8	739.1	738.7
Overtop. Exist.	100	318	40	48	738.0	1.5	1.0	739.5	739.0
Max. Calc.	196	363	40	N/A	738.1	2.0	N/A	740.1	N/A
	500	425	40	48	738.2	2.0	1.8	740.2	740.0

10 Yr. Outlet Velocity through Exist. Structure = 4.57 ft/s  
 10 Yr. Outlet Velocity through Prop. Structure = 3.81 ft/s

STATION 1568+87.58  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.P. 709 SEC. (104)RS-2  
 LOADING HL-93  
 STR. NO. 010-8175

NAME PLATE  
 See Std. 515001



Adam Bohnhoff  
 Licensed Structural Engineer  
 State of Illinois No. 081-007431  
 Expires 11-30-2024  
 Date: 02/24/2023

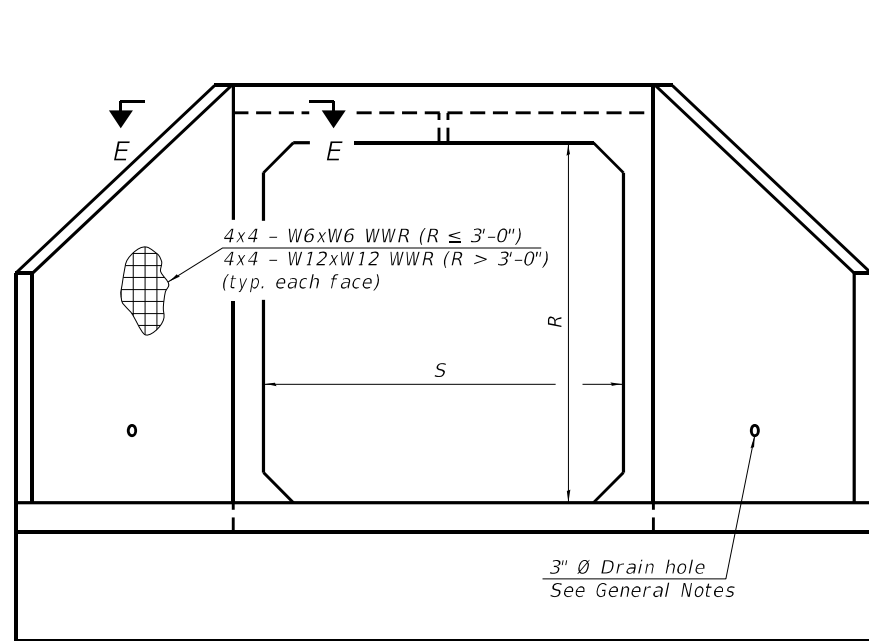
GENERAL PLAN AND ELEVATION  
 US ROUTE 136 OVER DRAINAGE DITCH  
 F.A.P. 709 - SEC. (104)RS-2  
 CHAMPAIGN COUNTY  
 STATION 1568+87.58  
 STRUCTURE NO. 010-8175

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

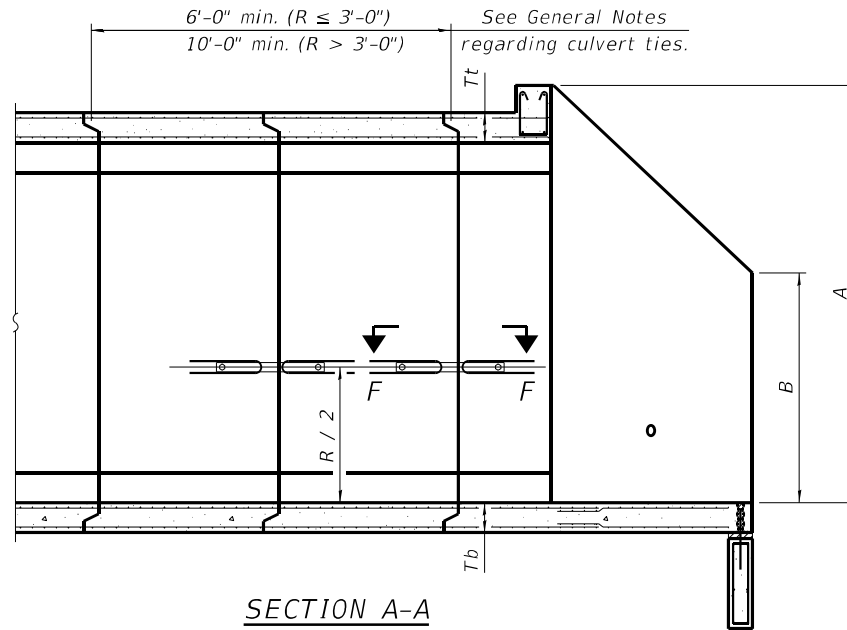
GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 010-8175  
 SHEET 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	50
CONTRACT NO. 70A93				

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 2/27/2023 8:33:55 AM



END VIEW



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included in the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	10'-4 5/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 1/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	12'-4 5/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 1/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 7/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 7/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	15'-10 3/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 3/8"	6.5	Yes
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6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 1/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 1/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 1/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 3/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 3/8"	4'-7"	20'-3 3/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 3/8"	6'-0"	22'-3 3/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 3/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 3/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 3/4"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	25'-6 3/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 3/8"	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

MODEL: Default FILE NAME: X:\5\XXX\50X-51XX\5007 - IDOT PTB 199-027\_D5 VV\_Oates\WO#3124 - Structures\CAD\70A93-002\_Single-cell\_precast\_Apron\_end.dgn

SCB-AES

2-17-2017



USER NAME -	DESIGNED - ADB	REVISED -
PLOT SCALE -	CHECKED -	REVISED -
PLOT DATE -	DRAWN - DCS	REVISED -
	CHECKED -	REVISED -

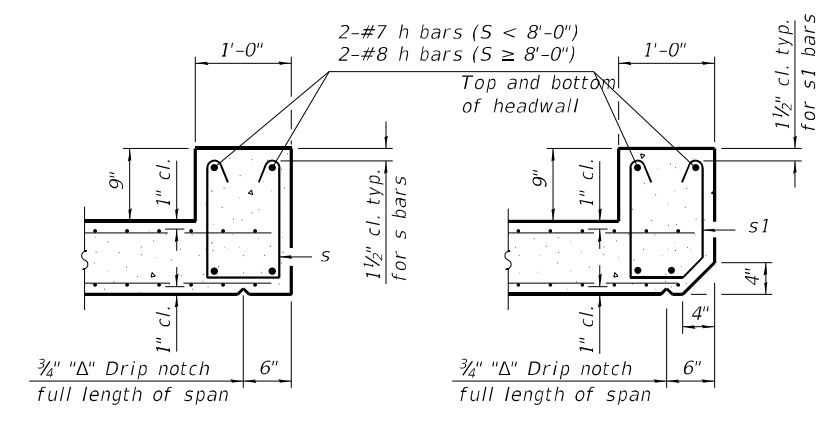
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 010-8175

SHEET 2 OF 4 SHEETS

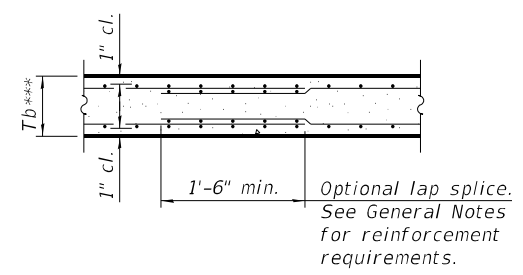
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	51
CONTRACT NO. 70A93				

ILLINOIS FED. AID PROJECT



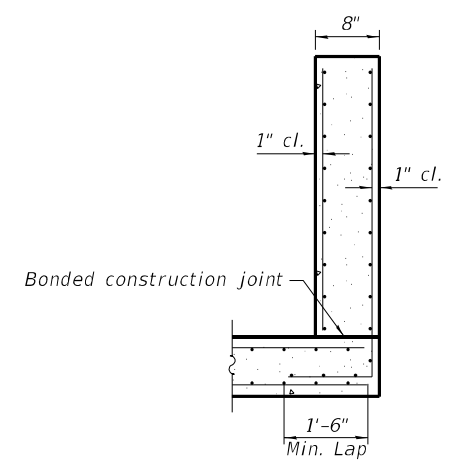
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

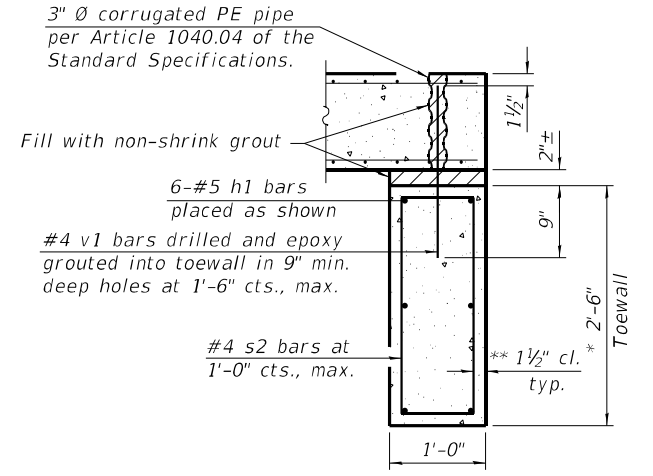


**SECTION B-B**  
(Bottom Slab)

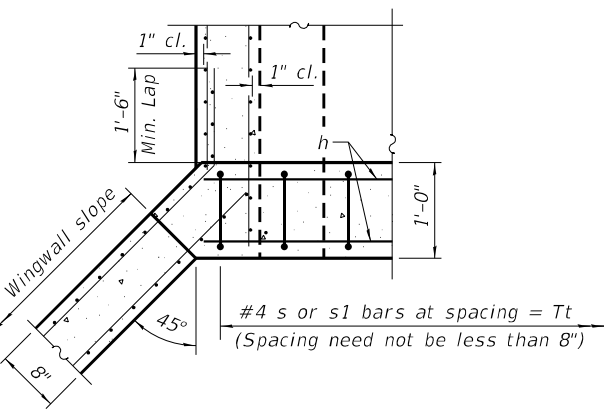
\*\*\* This dimension shall be increased by 2" for CIP construction.



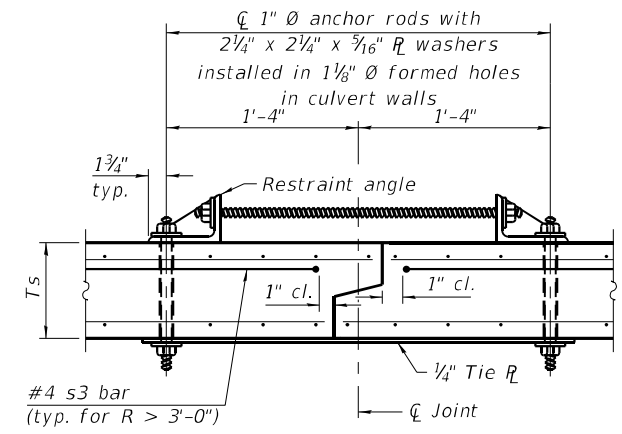
**SECTION C-C**



**SECTION D-D**



**SECTION E-E**



**SECTION F-F**  
(Showing culvert tie details)

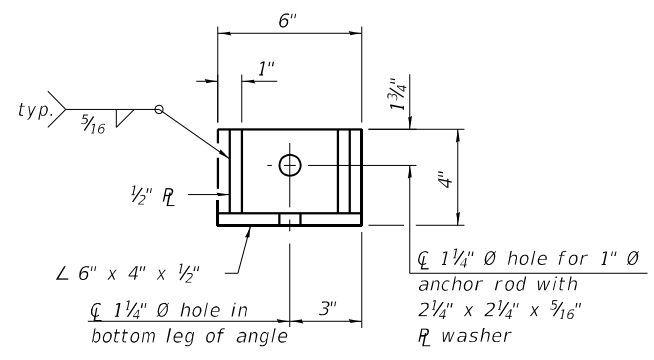
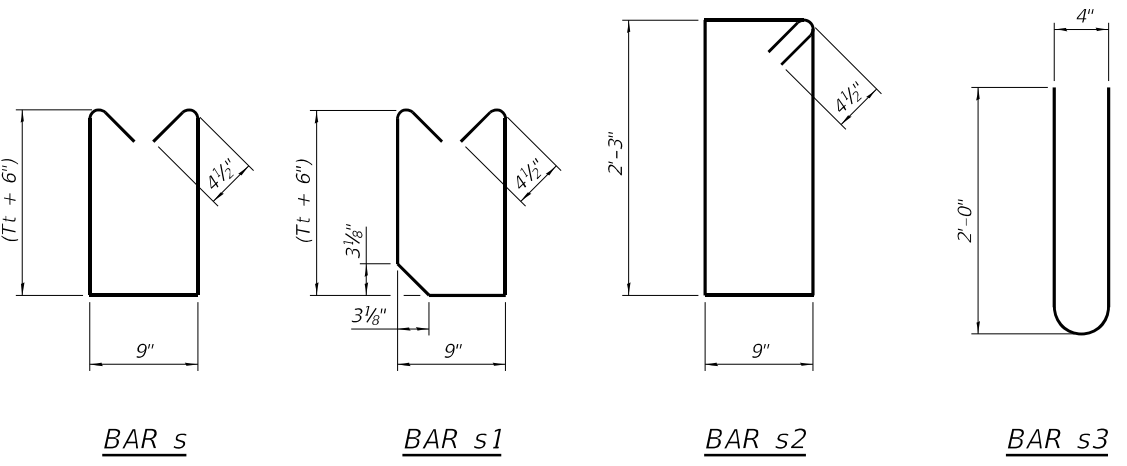
**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

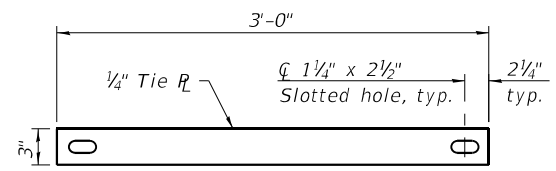
\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:  
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

(Sheet 2 of 2)

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2/27/2023 8:30:01 AM

SCB-AES

2-17-2017



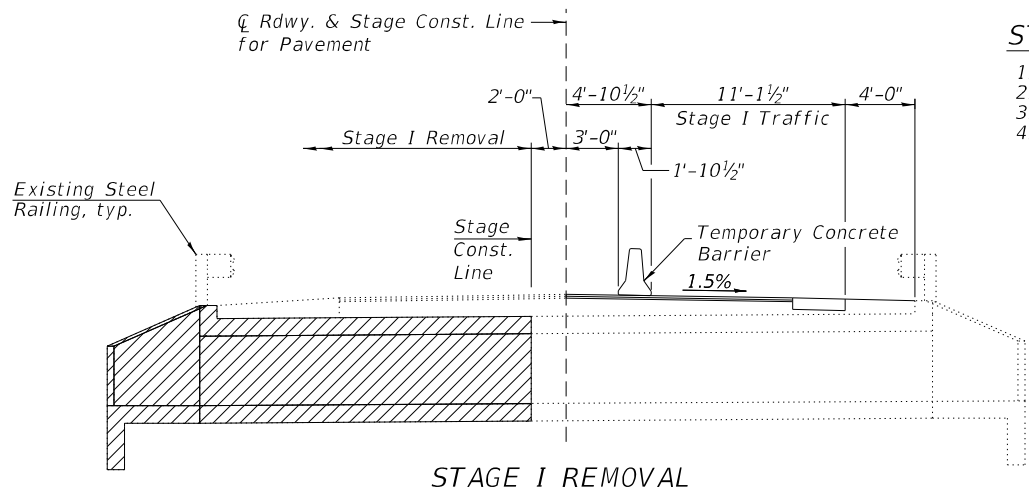
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN - DCS	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

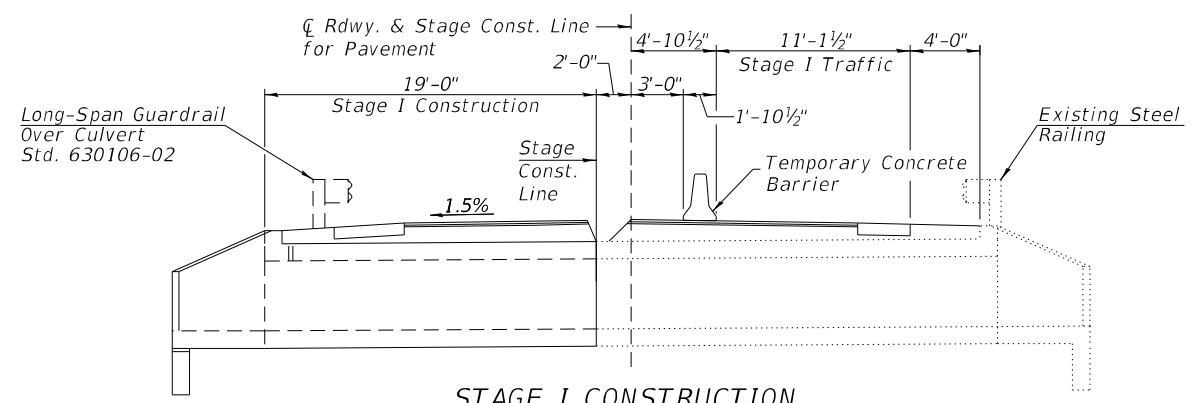
PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 010-8175

SHEET 3 OF 4 SHEETS

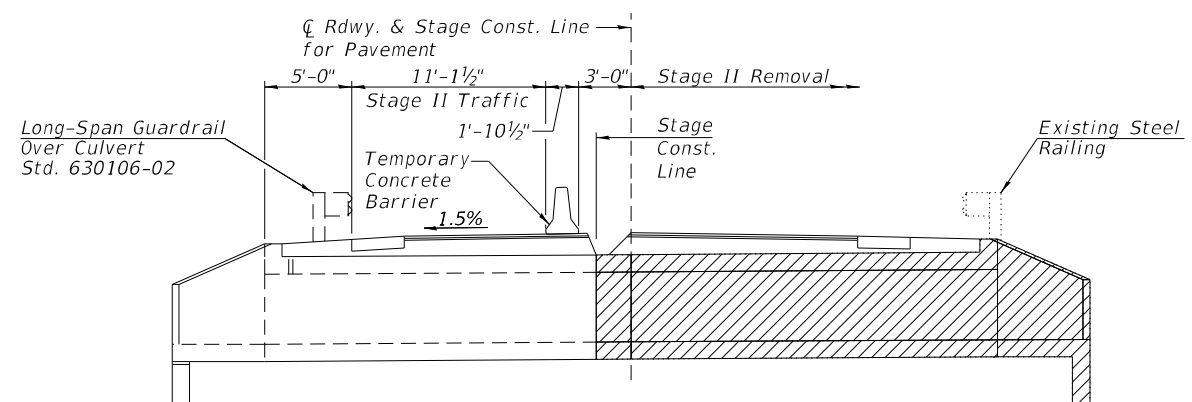
F.A.P. RTE. 709	SECTION (104)RS-2	COUNTY CHAMPAIGN	TOTAL SHEETS 72	SHEET NO. 52
			CONTRACT NO. 70A93	
ILLINOIS FED. AID PROJECT				



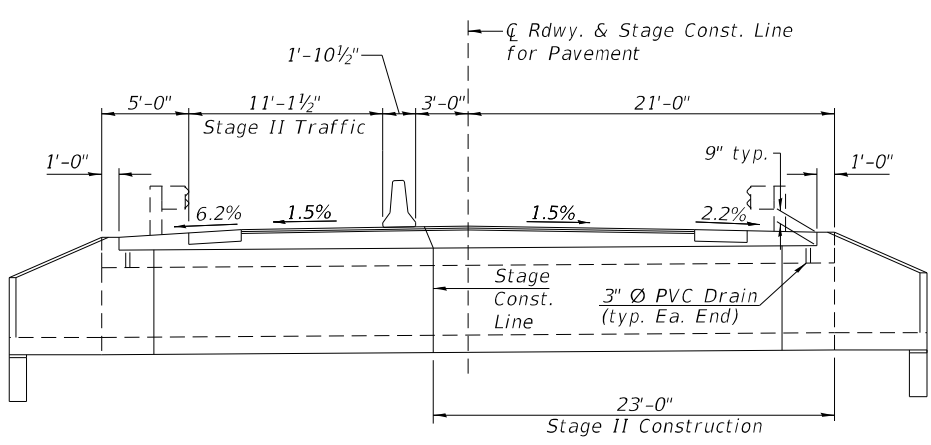
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



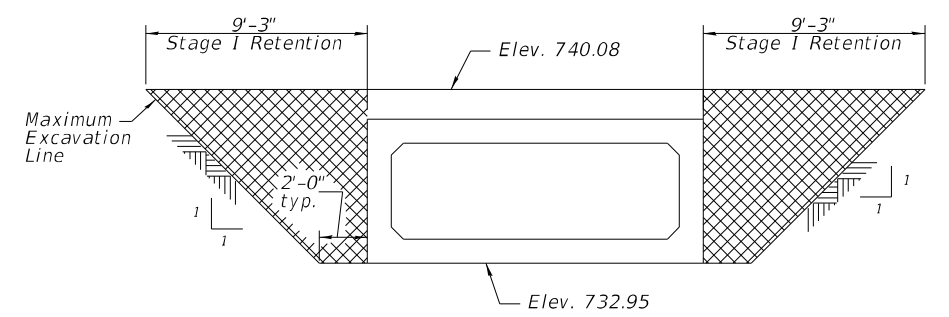
STAGE II CONSTRUCTION

**STAGE CONSTRUCTION NOTES:**

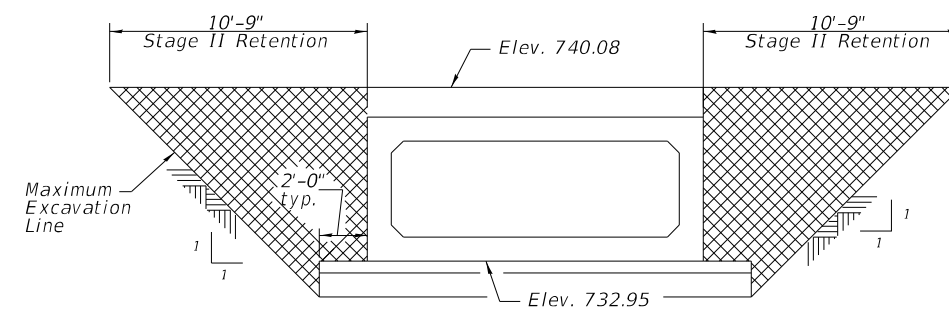
1. All staging sections, looking East
2. Hatched areas indicate removal.
3. See Roadway Plans for quantity of Temporary Concrete Barrier.
4. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

**NOTES:**

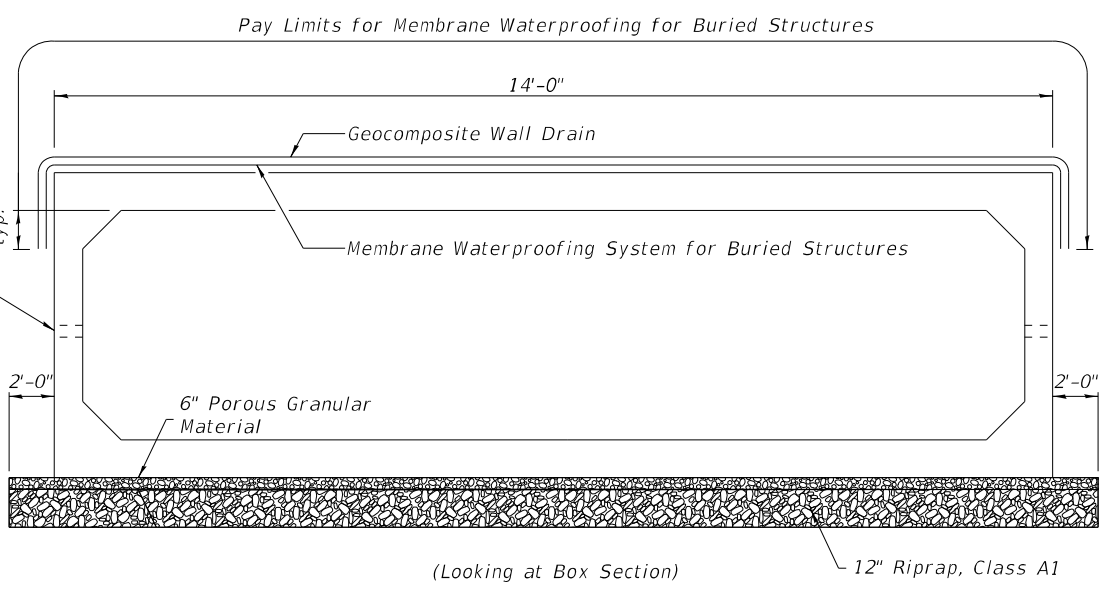
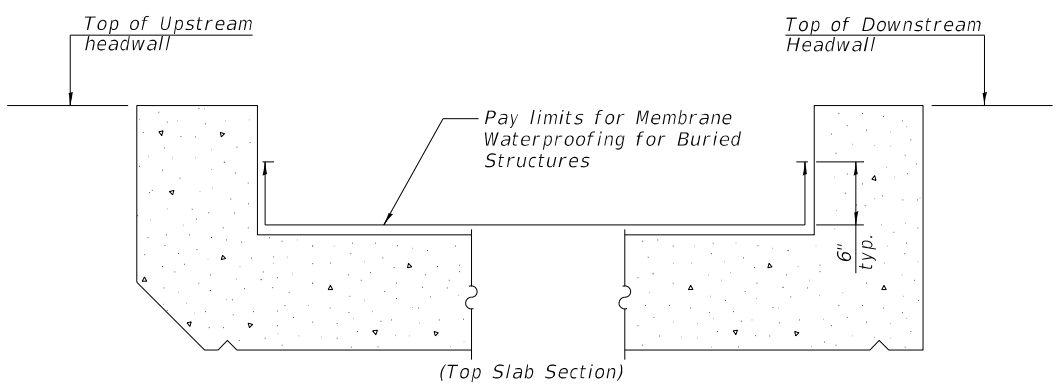
1. Work associated with Stone Riprap, Class A1 shall be performed per applicable portions of Section 281. The excavation and disposal of material to install the Stone Riprap, Class A1 shall not be measured for payment. Cost included with Stone Riprap, Class A1.
2. The coarse aggregate quality for Porous Granular Embankment shall be Class D or better and the gradation shall be CA-6 or CA-10.
3. Porous Granular Embankment shall be measured for payment in Cu. Yd. in-place, as shown. If the Contractor chooses to excavate beyond the limits shown, additional quantities of Porous Granular Embankment will be at their own expense.
4. The area to be excavated for the Proposed Box Culvert and End Sections shall not be measured for payment. Cost included with Precast Concrete Box Culverts, 12' x 4'.



STAGE I SOIL RETENTION SYSTEM



STAGE II SOIL RETENTION SYSTEM



**MEMBRANE WATERPROOFING FOR BURIED STRUCTURES**

Note: Membrane Waterproofing for Culvert shall cover top of the top slab, top one foot of side walls (below top slab joint), and 6 inches up inside face of headwalls.

MODEL: Default  
FILE NAME: X:\5XXXX\50XX-51XX\5007 - IDOT PTB 195-027 D5 VV\_Oates\WO#3124 - Structures\CAD\70A93-004\_Stage Const. Details.dgn  
2/27/2023 8:28:49 AM



USER NAME =	DESIGNED - ADB	REVISED -
CHECKED -	CHECKED -	REVISED -
PLOT SCALE =	DRAWN - DCS	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

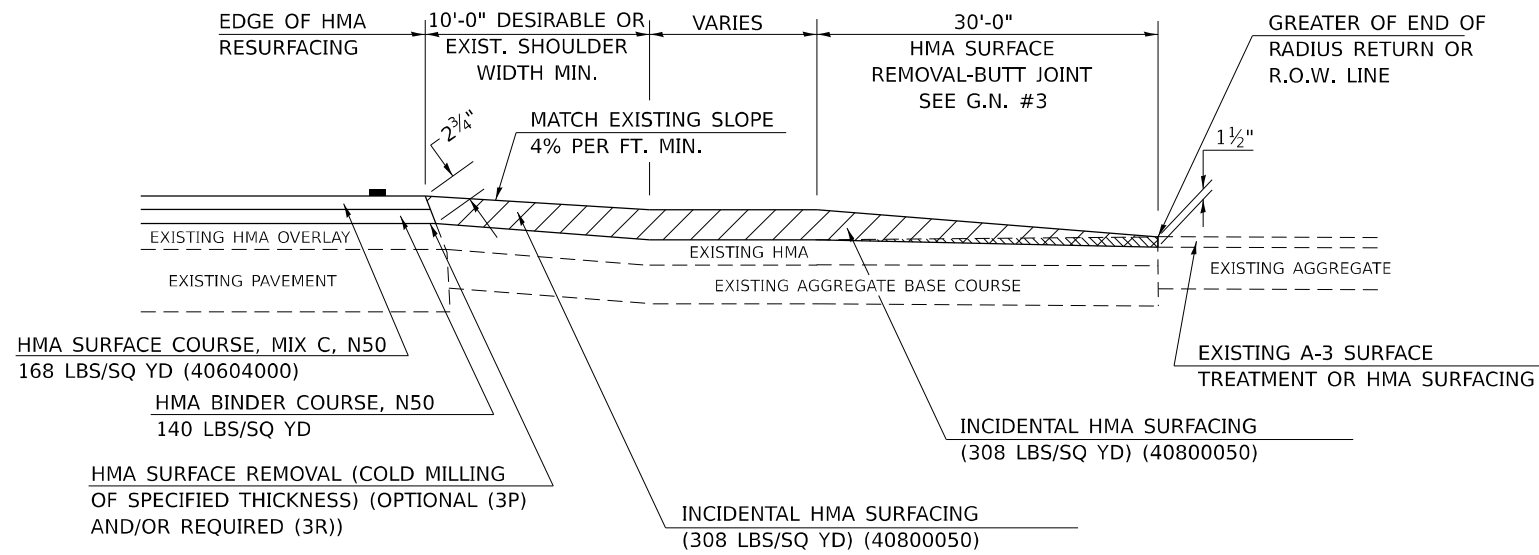
**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 010-8175**

SHEET 4 OF 4 SHEETS

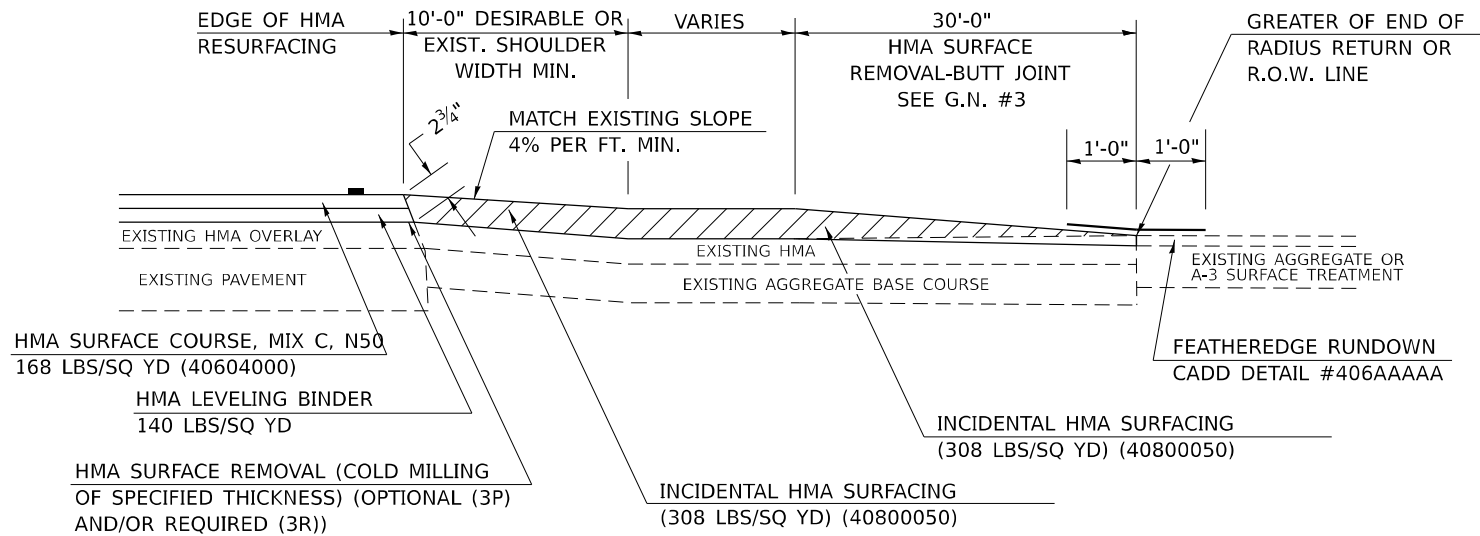
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	53
			CONTRACT NO. 70A93	
ILLINOIS FED. AID PROJECT				



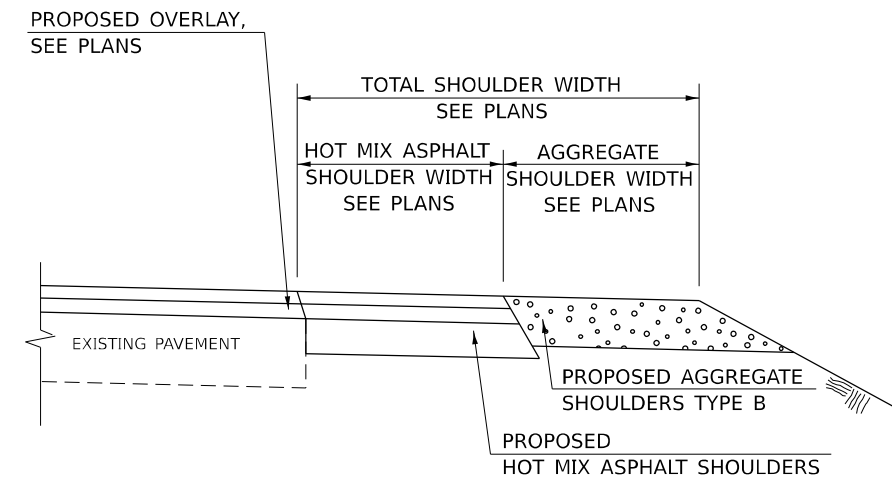
**SECTION A-A  
EXISTING HMA OR PCC SIDEROAD (> 400 ADT)**



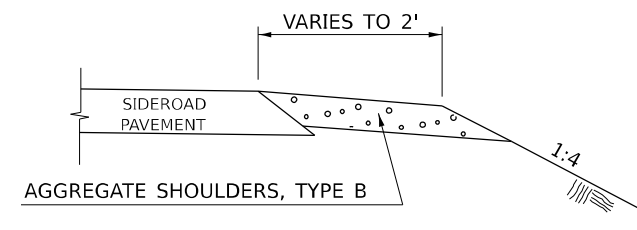
**SECTION A-A  
EXISTING AGGREGATE OR SEAL COAT SIDEROAD (< 400 ADT)**



RURAL SIDEROAD DESIGN STANDARDS (PPM 40-06)										
DESIGN ELEMENT	New Construction & 3R (Existing Width Less Than 20 ft)			3R (Existing Width 20 ft or Greater) & 3P			SMART & Contract Maintenance			
	min.	des.	max.	min.	des.	max.	min.	des.	max.	
SURFACE WIDTH (FT); (Measured at end of radius or row line; greatest distance from edge of traveled way)	24	24	Coordinate with Geometrics Engineer	Resurface existing configuration to completion of radius return or row line; greatest distance from edge of traveled way; major sideroads (> 400 adt) shall have "butt joints" constructed whether the entrance is hma or pcc; minor sideroads (< 400 adt) shall have "featheredge rundown" as shown in district cadd detail 406AAAAA						resurface existing configuration with the completion of a 10 ft. featheredge rundown for ALL sideroads as shown in district cadd detail 406AAAAA
RADIUS (FT)	30	30								
SHOULDER WIDTH (FT)	4	8	10							
SHOULDER SLOPE (%)	2	4	12							
ENTRANCE GRADE (%)	1	1 to 4	4							
BREAKOVER (%)	0	5	10							
SIDE SLOPE (FT)	1:10	1:6	1:4							
INTERSECTION ANGLE	60	75 to 90								
<b>SURFACE TYPE</b>										
INCIDENTAL HMA SURFACING (INCH)	4			taper from 2 1/4" to 1 1/2" or featheredge			taper from 1 1/2" to featheredge			
AGGREGATE BASE COURSE, TYPE A (INCH)	8	4		if applicable use item: 35800100 Preparation of Base						
PCC PAVEMENT (INCH)		8								



**SECTION B-B  
MAINLINE SHOULDER TREATMENT**



**SECTION C-C  
SIDEROAD SHOULDER TREATMENT**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 408000AA**

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 DATE: 2/27/2023



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	DRAWN -	REVISD - 09/07 KAG
PLOT SCALE = 40,000' / in.	CHECKED -	REVISD - 12/09 KJT
PLOT DATE = 2/27/2023	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEROAD & SIDESTREETS (RURAL)**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	55
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				





**GENERAL NOTES**

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 ALONG WITH DISTRICT PROJECT IMPLEMENTATION MEMORANDUM 104/01 DISCUSS THIS PROCEDURE.

RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)																
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with CONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM									
	NONCOMMERCIAL			FIELD W/FARM IMPLEMENTS			COMMERCIAL			NONCOMMERCIAL			COMMERCIAL			
	PRIVATE & FIELD			FIELD W/FARM IMPLEMENTS			COMMERCIAL			PRIVATE & FIELD			COMMERCIAL			
	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.		
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY			1 LANE, 1 WAY							
						14	16	24								
						2 LANE, 2 WAY			2 LANE, 2 WAY							
						24	30	35	resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them							
RADIUS (FT)	15	25	40	30		20	30	50								
SHOULDER WIDTH (FT)	2	2		2		1	3									
SHOULDER SLOPE (%)	2	4	6	4		2	4	6								
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10								
SIDE SLOPE (FT)	1:4	1:6	1:10	1:4	1:6	1:4	1:6	1:10								
<b>SURFACE TYPE</b>																
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" to minimize aggregate shoulder							
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable, use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02							
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8								

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 4080050A**

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USER NAME = kujrich	DESIGNED -	REVISED - 9/2007 KAG
	DRAWN -	REVISED - 4/2008 KJT
PLOT SCALE = 40,000' / in.	CHECKED -	REVISED - 3/2017 SWN
PLOT DATE = 2/27/2023	DATE -	REVISED - 8/2022 JWS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

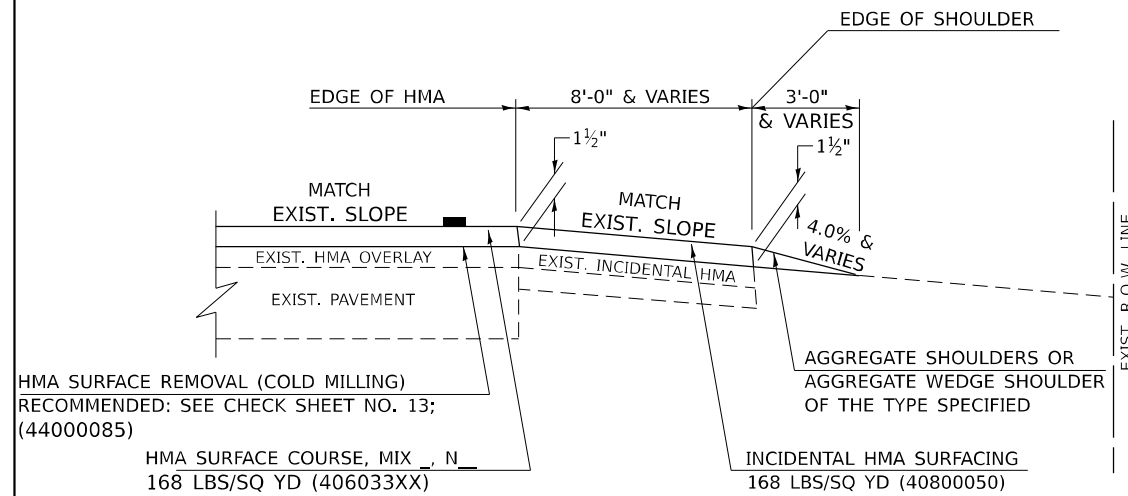
**FIELD ENTRANCES (NONCOMMERCIAL RURAL)**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

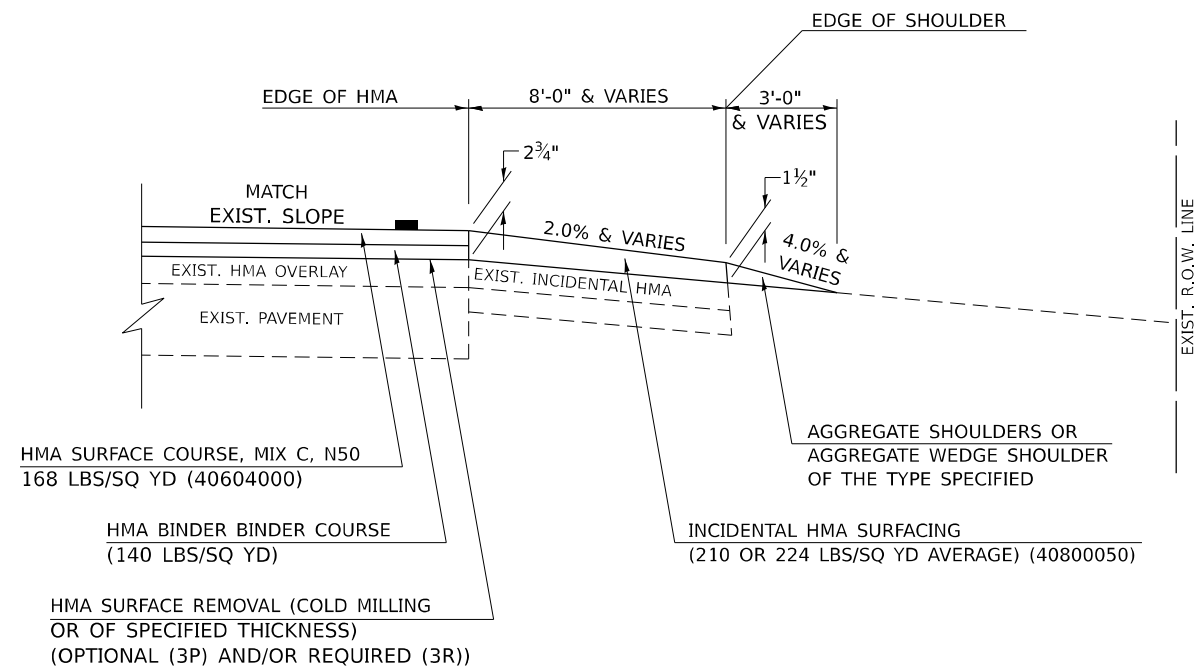
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	57
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

# PROJECTS WITHOUT RECONSTRUCTION

## S.M.A.R.T. IMPROVEMENTS (POLICY RESURFACING; BDE 53-4.03; 1½")



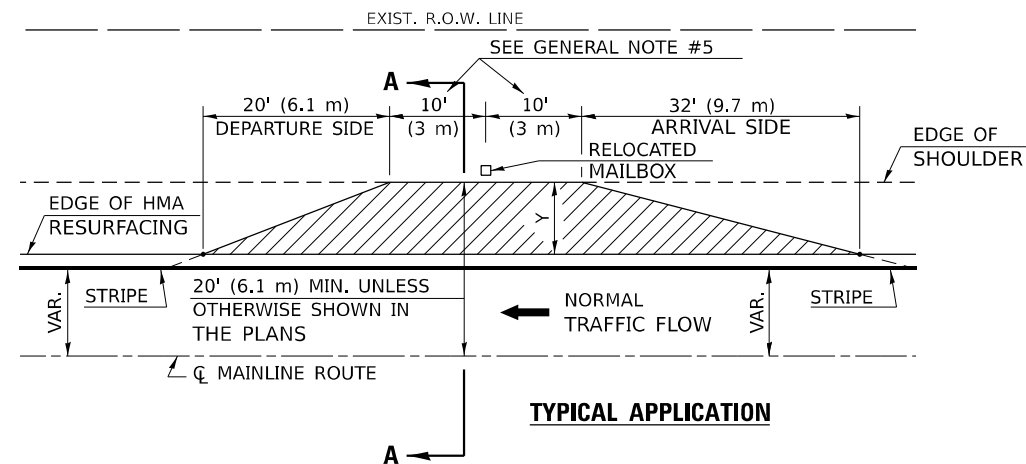
## "3P" OR "3R" IMPROVEMENTS (POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)



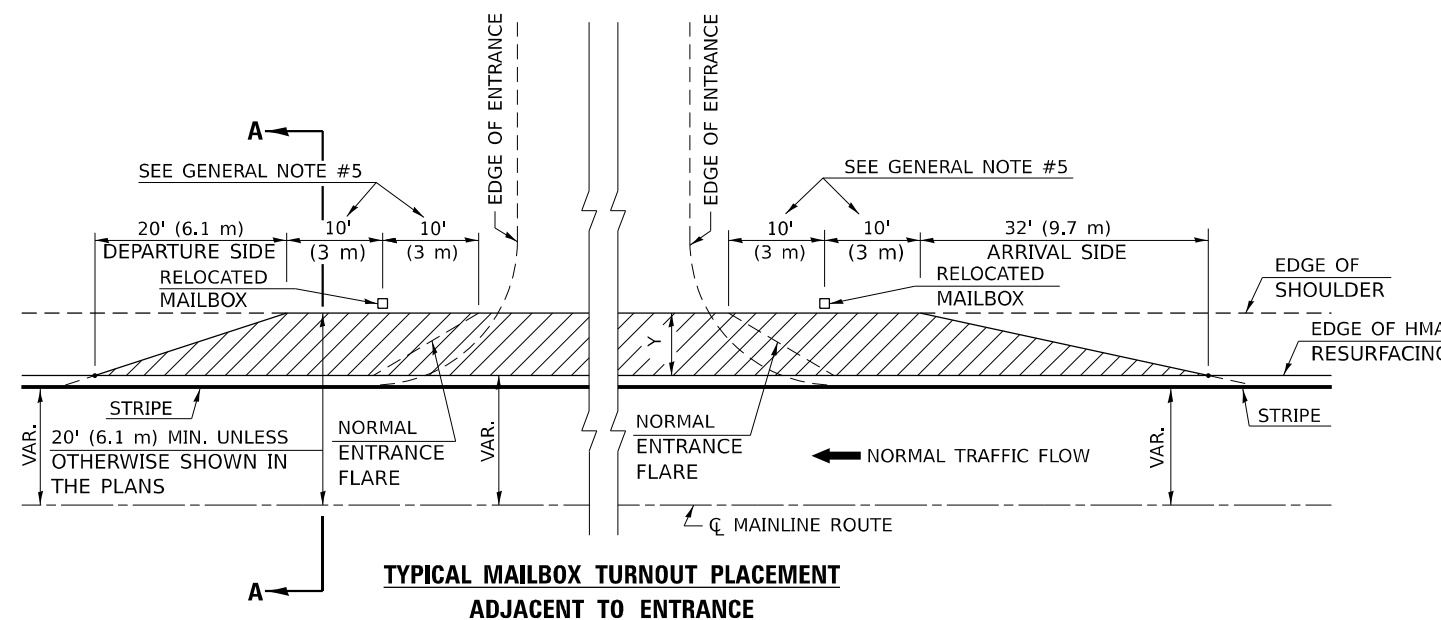
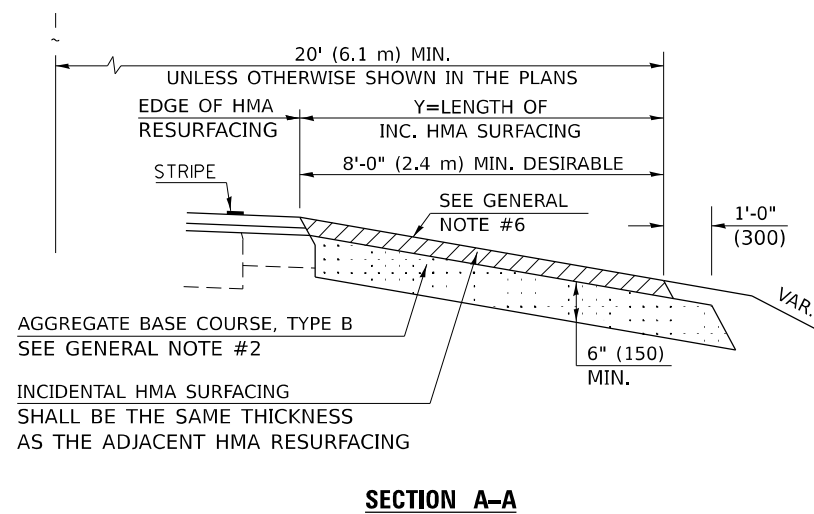
### GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED MAILBOX TURNOUTS. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ALL EXISTING MAILBOX TURNOUTS OR TO CONSTRUCT NEW MAILBOX TURNOUTS WHERE NONE NOW EXISTS.
3. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
5. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' (3 m) DIMENSIONS AS SHOWN ABOVE SHALL BE FROM THE END MAILBOX.
6. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER.  
MINIMUM 4% (1/2") DESIRABLE; MAXIMUM 8% (1")
7. WHEN MAILBOX TURNOUTS ARE CONSTRUCTED ADJACENT TO FIELD ENTRANCES, THE WIDTH OF THE INCIDENTAL HMA SURFACING CONSTRUCTED FOR THE FIELD ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED MAILBOX TURNOUT SURFACING.
8. THE TOTAL SHOULDER WIDTH, 2.4 m (8') MINIMUM, SHALL BE PAVED BETWEEN SIDEROADS ENTRANCES AND/OR MAILBOX TURNOUTS AT LOCATIONS WHERE THE DISTANCE BETWEEN RADIUS OR TAPER CONTROL POINTS IS LESS THAN 15.0 m (50').
9. MAILBOXES SHALL BE MOUNTED SUCH THAT THE FACE OF THE MAILBOX IS 6" (150 mm) TO 12" (300 mm) AND THE POST A MINIMUM OF 24" (600 mm) FROM THE EDGE OF THE TURNOUT SURFACING.

# PROJECTS WITH RECONSTRUCTION ("3R" IMPROVEMENTS)



WIDTH OF SHOULDER	4'-0" - 8'-0" (1.2 m - 2.4 m)	10'-0" (3.0 m)
WIDTH OF TURNOUT "Y"	8'-0" (2.4 m)	8'-0" - 10'-0" (2.4 m - 3.0 m)



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

### DISTRICT 5 DETAIL NO. 4080050B



USER NAME = kjlrch	DESIGNED -	REVISED - 12/2006 TJB
	DRAWN -	REVISED - 9/2007 KAG
PLOT SCALE = 40,000' / in.	CHECKED -	REVISED - 8/2022 JWS
PLOT DATE = 2/27/2023	DATE -	REVISED -

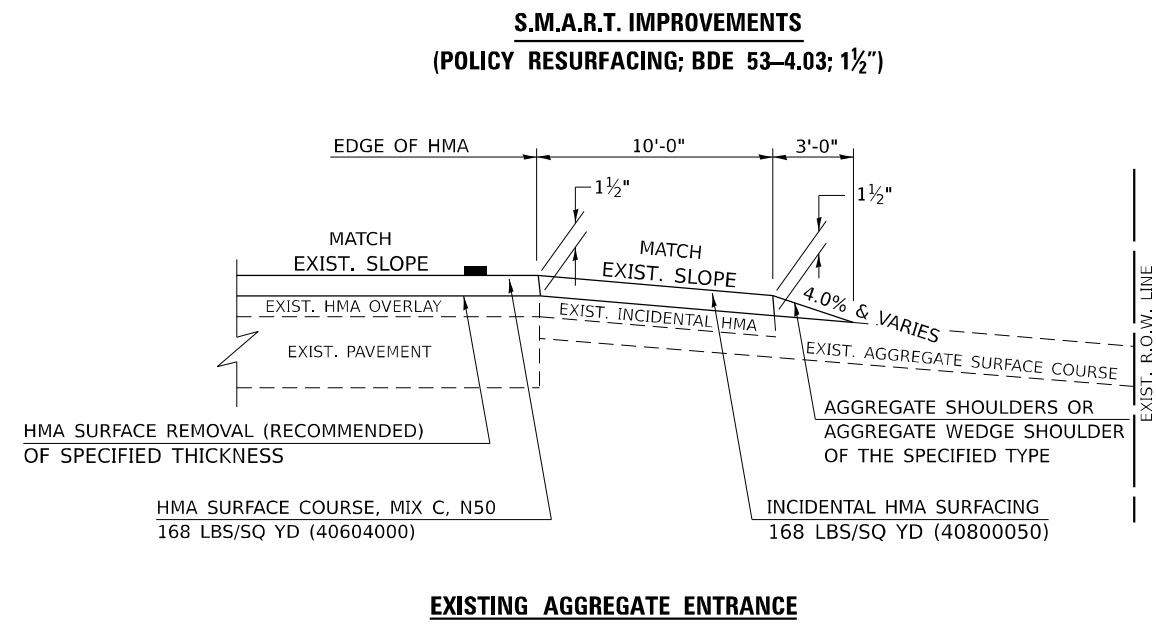
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAILBOX TURNOUT (RURAL)

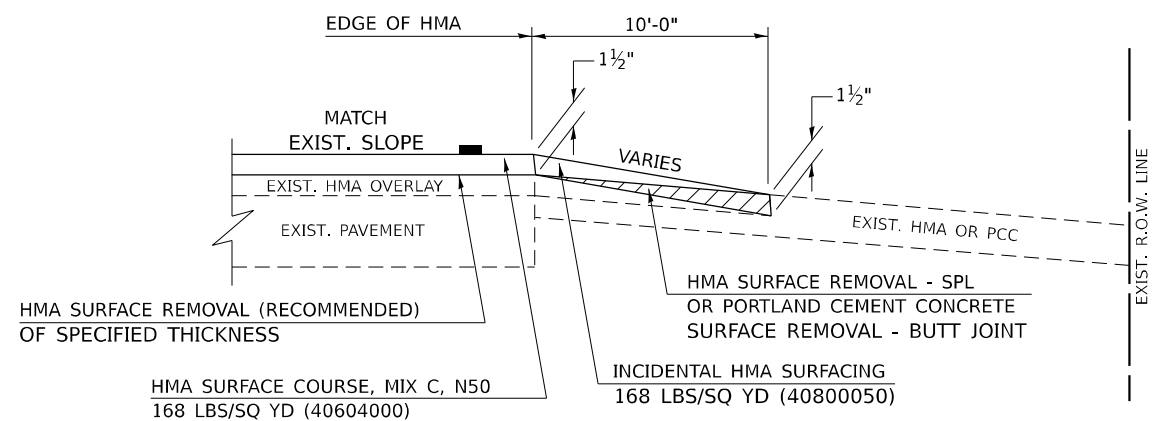
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	58
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

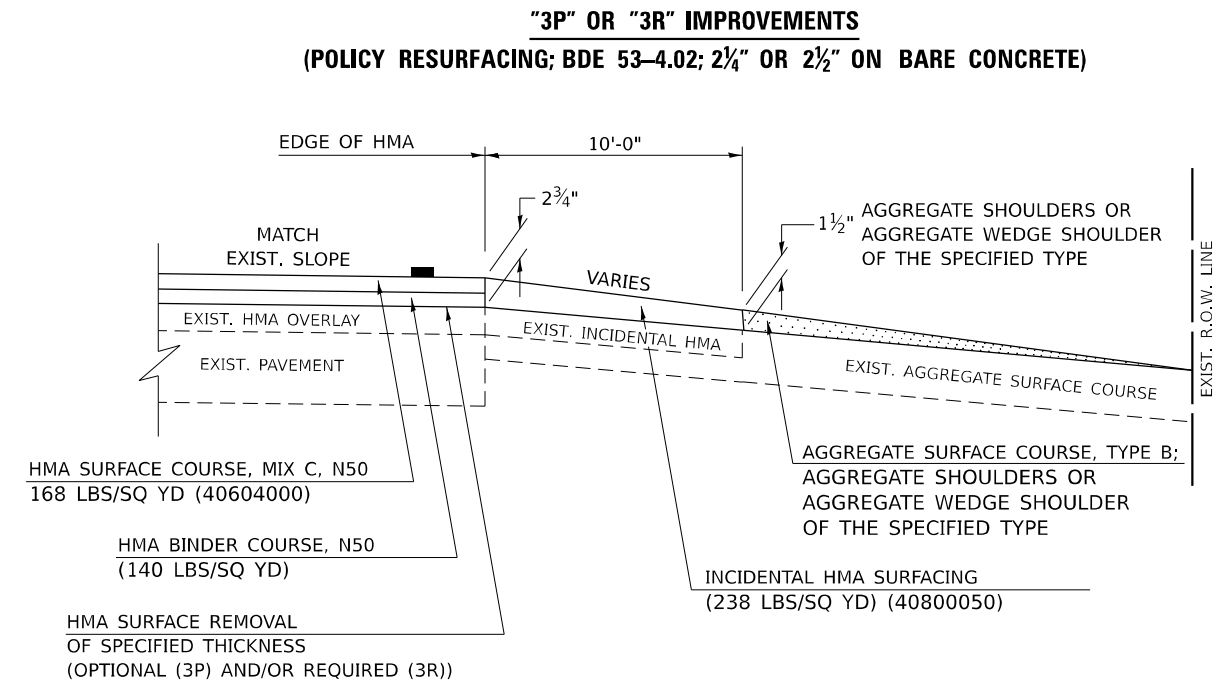
**PROJECTS WITHOUT RECONSTRUCTION**



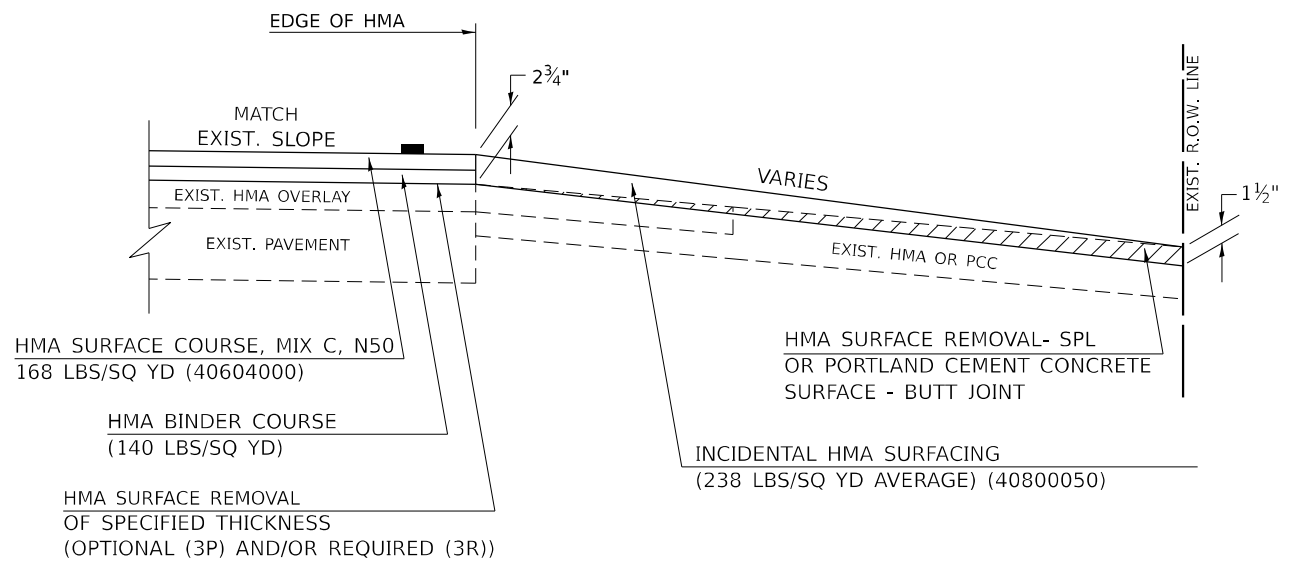
**EXISTING AGGREGATE ENTRANCE**



**EXISTING HMA OR PCC ENTRANCE**



**EXISTING AGGREGATE ENTRANCE**



**EXISTING HMA OR PCC ENTRANCE**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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USER NAME =	kuirich
PLOT SCALE =	40,000' / in.
PLOT DATE =	2/27/2023

DESIGNED -	09/07 KAG
DRAWN -	05/08 KJT
CHECKED -	04/10 KJT
DATE -	3/6/17 SWN

REVISED -	09/07 KAG
REVISED -	05/08 KJT
REVISED -	04/10 KJT
REVISED -	3/6/17 SWN

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRIVATE COMMERCIAL ENTRANCES  
(NONCOMMERCIAL AND COMMERCIAL RURAL)**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

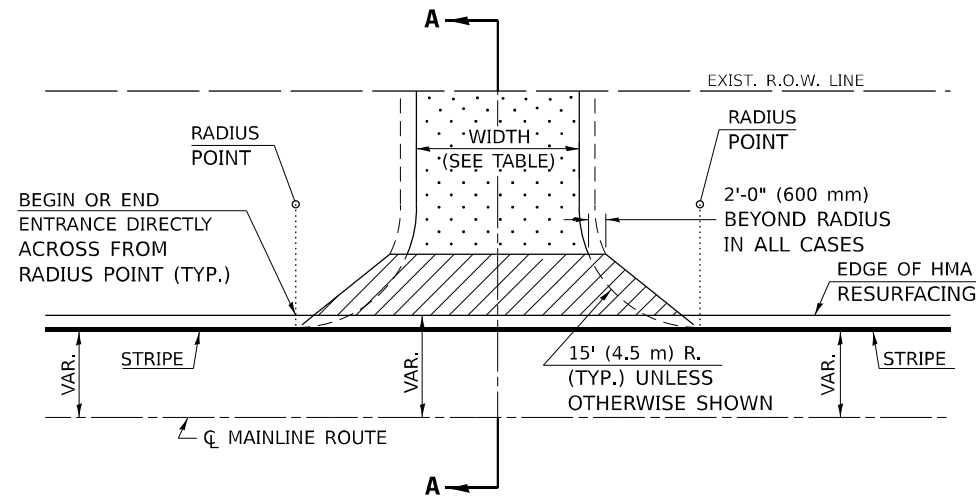
**DISTRICT 5 DETAIL NO. 4080050C**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

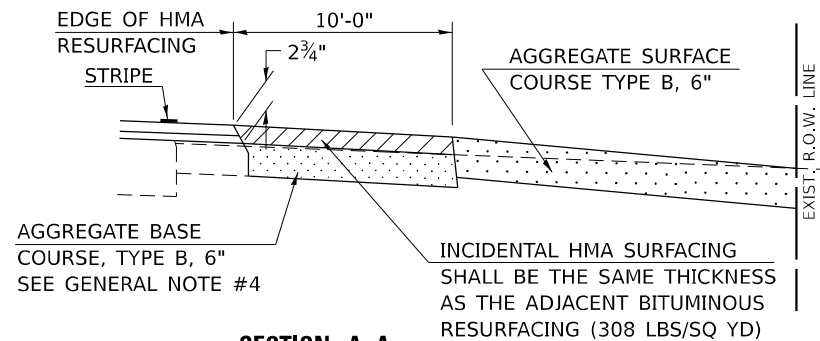
# PROJECTS WITH RECONSTRUCTION

## AGGREGATE ENTRANCE

### (3R IMPROVEMENTS)

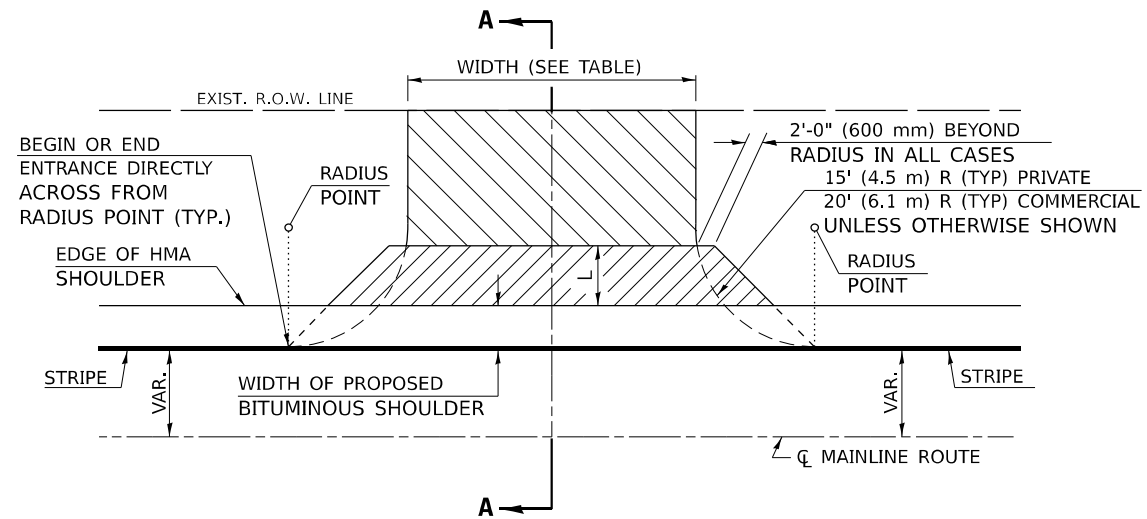


**TYPICAL APPLICATION**

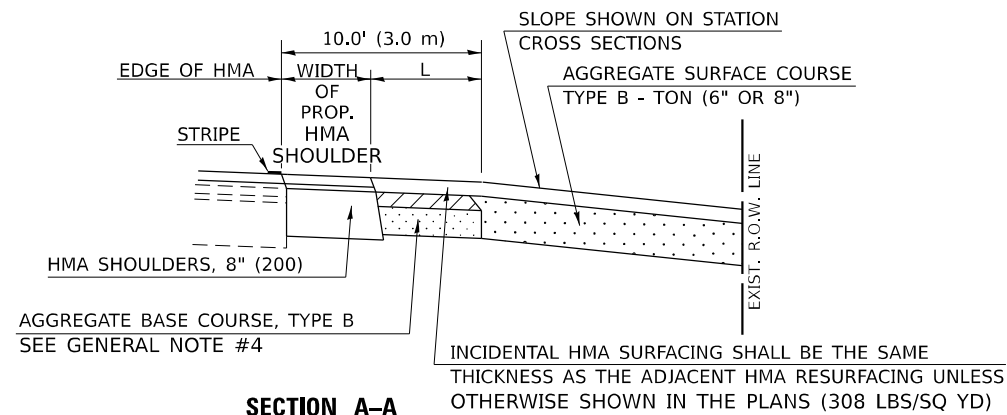


**SECTION A-A**

## HMA OR PCC ENTRANCE



**TYPICAL APPLICATION**



**SECTION A-A  
"HMA EXAMPLE"**

## GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
- 5.
6. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
7. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".

TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 ALONG WITH DISTRICT PROJECT IMPLEMENTATION MEMO 104/01 DISCUSS THIS PROCEDURE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

### RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)

DESIGN ELEMENT	NEW CONSTRUCTION & 3R with CONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM							
	NONCOMMERCIAL			FIELD W/FARM IMPLEMENTS			NONCOMMERCIAL			COMMERCIAL				
	PRIVATE & FIELD						PRIVATE & FIELD							
	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY			1 LANE, 1 WAY					
						14	16	24						
RADIUS (FT)	15	25	40	30		2 LANE, 2 WAY			2 LANE, 2 WAY					
						24	30	35						
SHOULDER WIDTH (FT)	2	2		2		1	3		resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them					
SHOULDER SLOPE (%)	2	4	6	4		2	4	6						
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10						
SIDE SLOPE (FT)	1:10	1:6	1:4	1:6	1:4	1:10	1:6	1:4						
<b>SURFACE TYPE</b>														
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" to minimize aggregate shoulder					
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable, use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02					
PCC DRIVEWAY PAVEMENT (INCH)		6							6 or 8					

### DISTRICT 5 DETAIL NO. 40800050C

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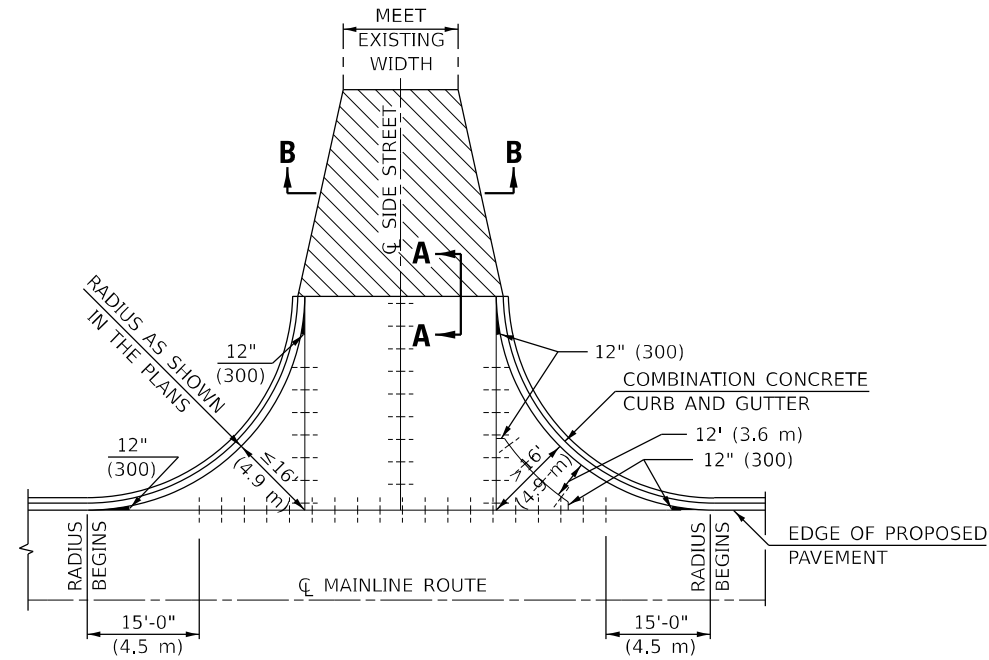
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PRIVATE COMMERCIAL ENTRANCES (NONCOMMERCIAL AND COMMERCIAL RURAL)			
SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.

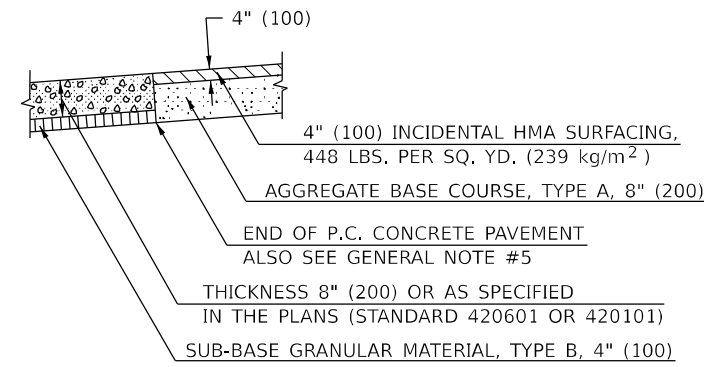
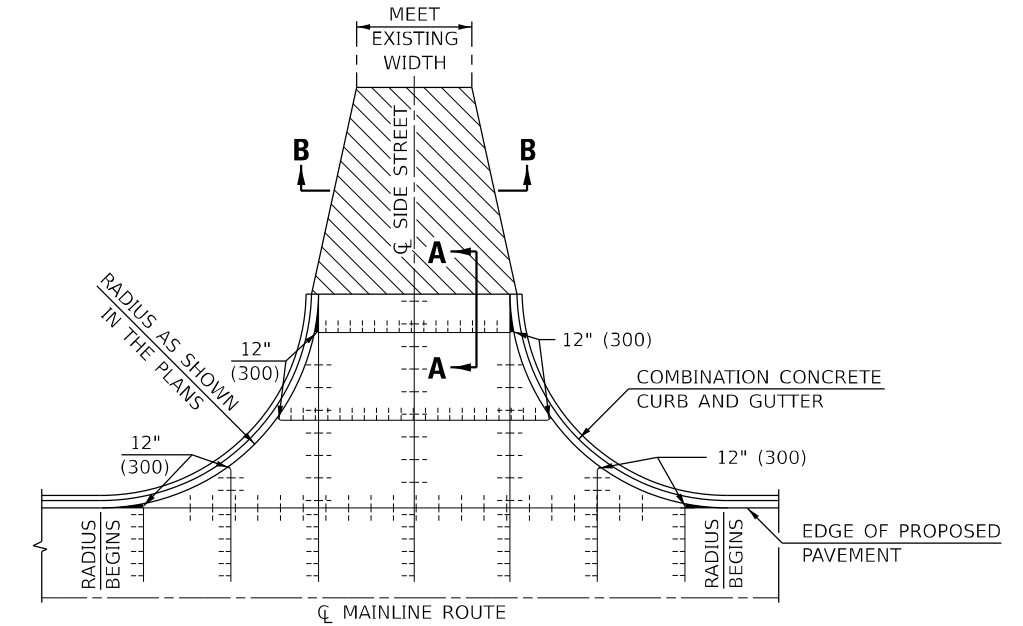
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	60
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

# NEW CONSTRUCTION ("3R" IMPROVEMENTS)

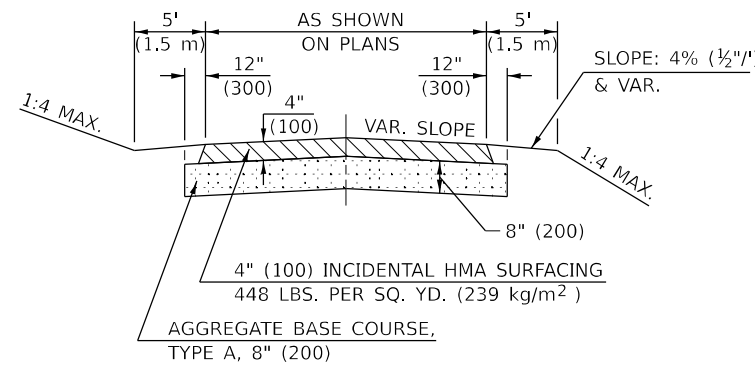
**(ADJACENT TO RESURFACING OR WIDENING AND RESURFACING)**



**(ADJACENT TO JOINTED P.C.C. PAVEMENT)**



**SECTION A-A**



**SECTION B-B**

**LEGEND**

- LONGITUDINAL JOINT WITH TIE BARS (STANDARD 420001)
- INCIDENTAL HMA SURFACING OVER AGGREGATE BASE COURSE (SEE SECTION A-A) (SEE NOTE #5)
- SAWED CONTRACTION JOINT WITH TIE BARS (STANDARD 420001)

**GENERAL NOTES**

1. ALL INTERSECTING SIDE STREETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS DETAIL EXCEPT THOSE NOTED IN THE PLANS.
2. SAWED LONGITUDINAL JOINTS WITH TIE BARS WILL BE ALLOWED ALONG THE CENTERLINE ONLY WHEN THE STREET RETURN IS POURED FULL WIDTH. OTHER LONGITUDINAL JOINTS SHALL BE ACCORDING TO STANDARD 420001.
3. THE MATERIAL WITHIN THE WIDTH TRANSITION AREA MAY BE DIFFERENT THAN SHOWN ABOVE. THE WIDTH TRANSITION MAY NOT BE REQUIRED AT ALL LOCATIONS.
4. SHADED AREAS SHALL BE POURED MONOLITHIC WITH ADJACENT COMBINATION CONCRETE CURB AND GUTTER. THIS WORK WILL BE MEASURED AND INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD (m<sup>2</sup>) FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) OF THE TYPE AND THICKNESS SPECIFIED IN THE PLANS.
5. SAWED CONTRACTION JOINTS, AS SHOWN IN STANDARD 420001, SHALL BE REQUIRED AT 12' (3.6 m) TO 18' (5.5 m) SPACING FOR JOINTED PCC PAVEMENT AND AT AT 40' (12.2 m) (MIN. SPACING 20' (6.1 m)) WHEN THE LENGTH OF THE RETURN EXCEEDS 40' (12.2 m).
6. JOINT SPACING, MONOLITHIC POURS AND OTHER FEATURES MAY BE MODIFIED TO MAINTAIN ALIGNMENT OF JOINTS BETWEEN ADJACENT PANELS. SEE PAVEMENT JOINT PLANS.
7. PLACEMENT OF PAVEMENT FABRIC SHALL BE AS SHOWN ON THE STANDARDS INCLUDED WITH THIS IMPROVEMENT.

URBAN SIDEROAD DESIGN STANDARDS (PPM 40-06)									
DESIGN ELEMENT	New Construction OR 3R (Existing Width Less Than 20 ft)			3R (Existing Width 20 ft or Greater) OR 3P			SMART or Contract Maintenance		
	min.	des.	max.	min.	des.	max.	min.	des.	max.
SURFACE WIDTH (FT); (measured at end of radius or row line; greatest distance from edge of traveled way)	30 f-f	30 f-f	Coordinate with Geometrics Engineer	resurface existing con guration to completion of radius return or row line; greatest distance from edge of traveled way; major sideroads (> 400 adt) shall have "butt joints" constructed whether the entrance is hma or pcc; minor sideroads (< 400 adt) shall have "featheredge rundown" as shown in district cadd detail 406AAAAA			resurface existing con guration with the completion of a 10 ft. featheredge rundown for ALL sideroads as shown in district cadd detail 406AAAAA		
RADIUS (FT)	30	30							
ENTRANCE GRADE (%)	1	1 to 4	4						
BREAKOVER (%)	0	5	10						
INTERSECTION ANGLE	60	75 to 90							
SURFACE TYPE									
INCIDENTAL HMA SURFACING (INCH)	4			taper from 2 1/4" to 1 1/2" or featheredge			taper from 1 1/2" to featheredge		
AGGREGATE BASE COURSE, TYPE A (INCH)	8	4		if applicable use item: 35800100 Preparation of Base					
PCC PAVEMENT (INCH)		8							

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 4200030A**

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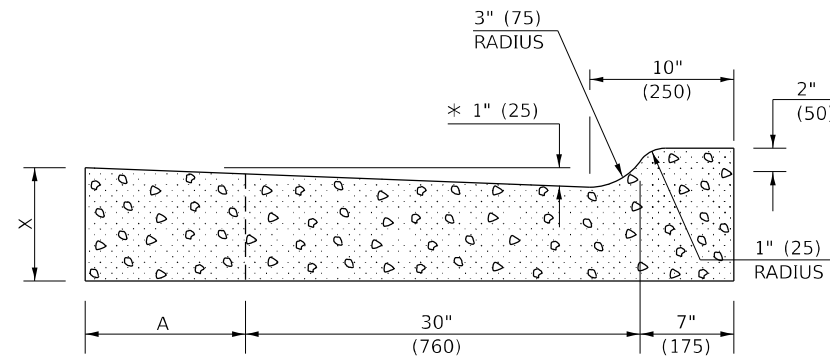
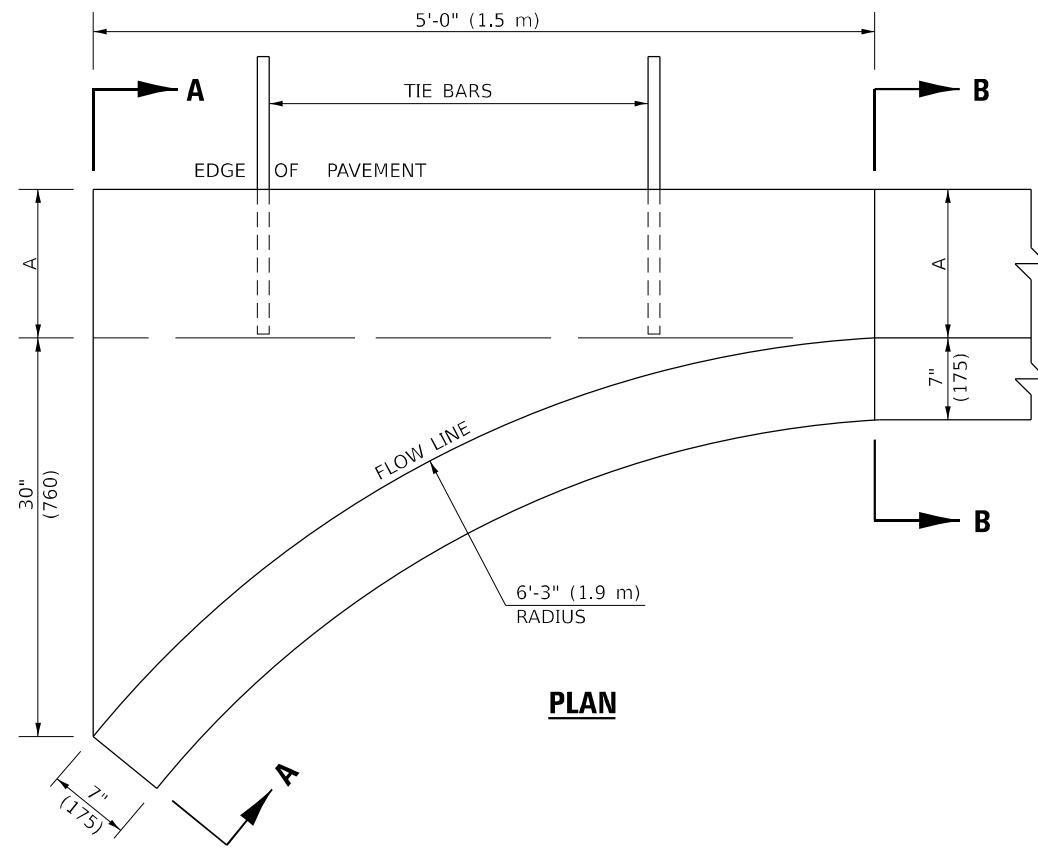
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTING SIDE STREETS (URBAN)**

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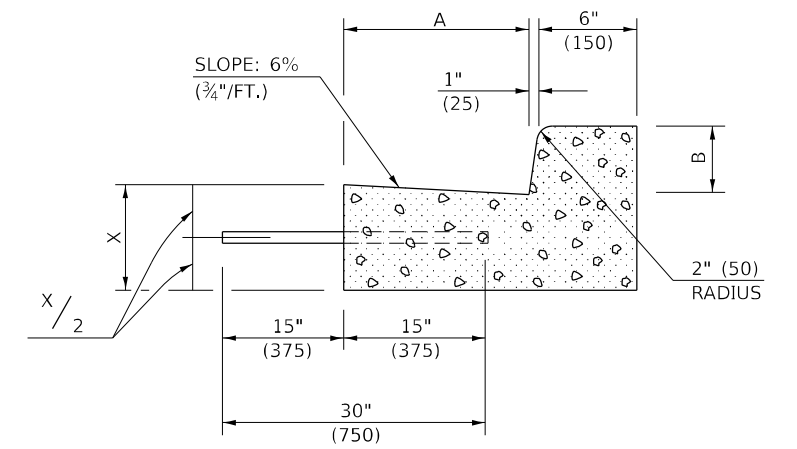
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	61
CONTRACT NO. 70A93				

ILLINOIS FED. AID PROJECT



**SECTION A-A**

\* INCREASE TO 2" (50 mm) WHERE IN THE PLANS IT IS SPECIFIED THAT THESE SPECIAL INLETS ARE TO BE CONSTRUCTED AS OUTLETS. ALL OUTLET LOCATIONS WILL BE CONFIRMED BY THE ENGINEER.



**SECTION B-B**

**GENERAL NOTES**

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. TIE BARS SHALL BE NO. 6 (NO. 20) AT 24" (600 mm) CENTERS UNLESS OTHERWISE SHOWN. SPECIAL INLETS AND OUTLETS SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
3. TIE BARS SHOWN ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO CLASS SI CONCRETE (OUTLET).
4. WHEN SPECIAL INLET IS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENT, THE TIE BARS SHALL BE OMITTED AND ALL CONSTRUCTION JOINTS SHALL BE PROVIDED WITH A DOWEL BAR CONFORMING TO ARTICLE 1006.11(b).
5. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. (m<sup>3</sup>) FOR CLASS SI CONCRETE (OUTLET) WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

	B-6.12 (B-15.30)	B-9.12 (B-22.30)	B-6.18 (B-15.45)	B-9.18 (B-22.45)	B-6.24 (B-15.60)	B-9.24 (B-22.60)
A	12" (300)	12" (300)	12" (300)	12" (300)	18" (450)	18" (450)
B	6" (150)	6" (150)	9" (225)	9" (225)	6" (150)	6" (150)
X	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)
CU. YD. (m <sup>3</sup> )	0.37 (0.28)	0.42 (0.32)	0.38 (0.29)	0.42 (0.32)	0.44 (0.34)	0.49 (0.37)
CLASS SI CONCRETE (OUTLET)	0.37 (0.28)	0.42 (0.32)	0.38 (0.29)	0.42 (0.32)	0.44 (0.34)	0.49 (0.37)

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 6060095A**

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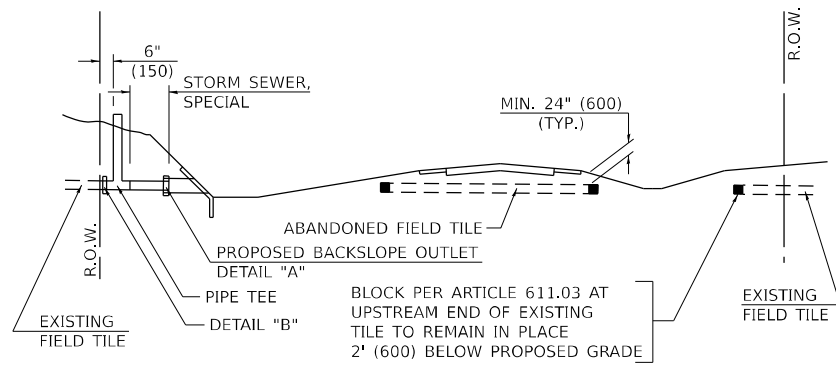
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INLET - COMBINATION CONCRETE CURB & GUTTER (BARRIER CURB)**

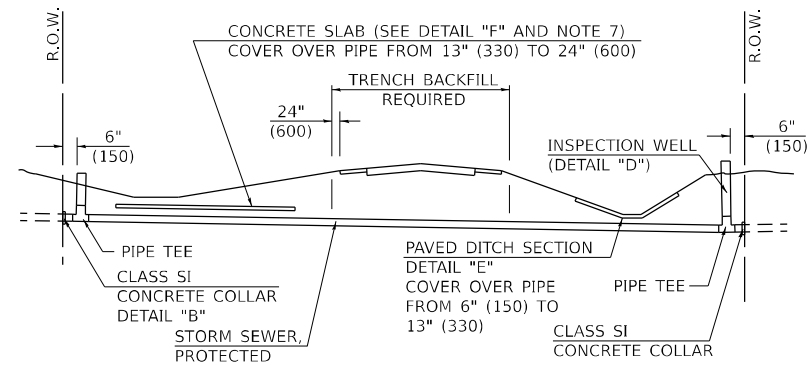
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	62
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



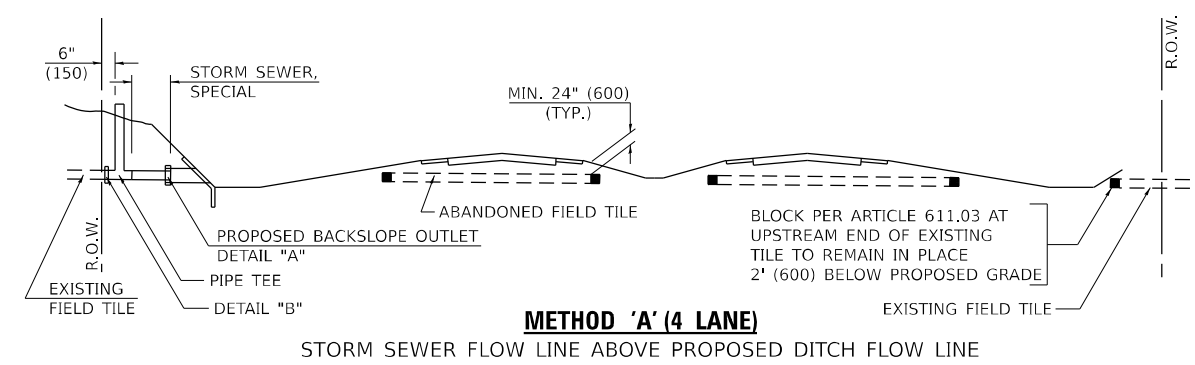
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



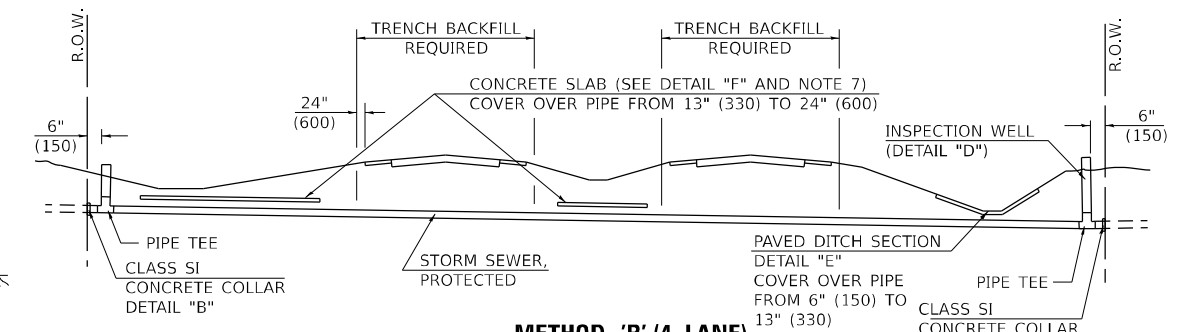
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



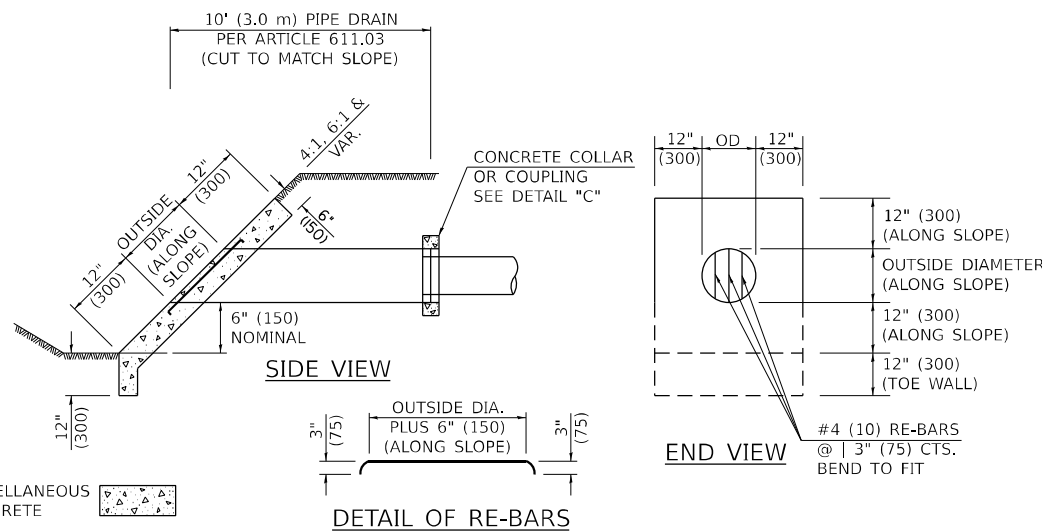
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

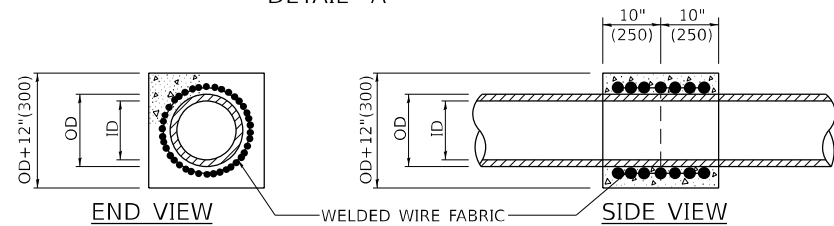


**METHOD 'B' (4 LANE)**

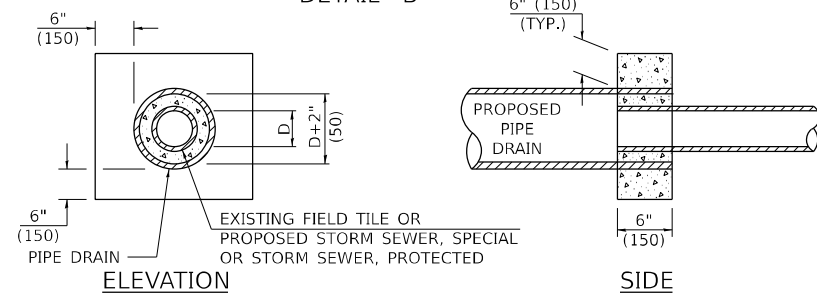
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



**HEADWALL FOR BACKSLOPE OUTLET**  
DETAIL "A"



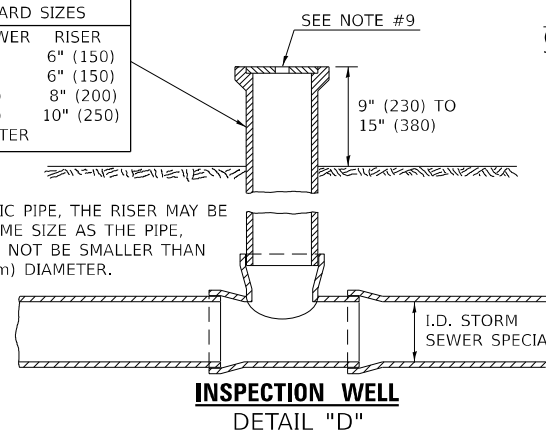
**CONCRETE COLLAR**  
DETAIL "B"



**CLASS SI COLLAR**  
DETAIL "C"

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	8" (200)
OR GREATER	10" (250)

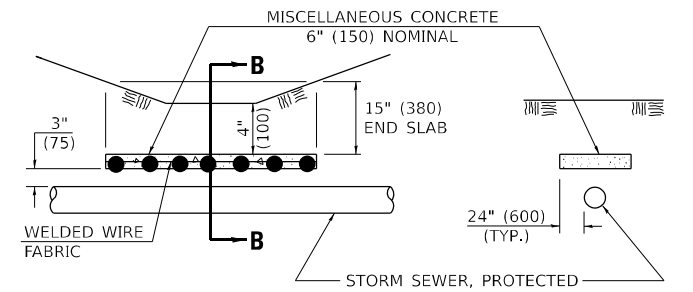
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL**  
DETAIL "D"

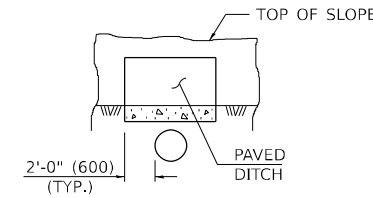
**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



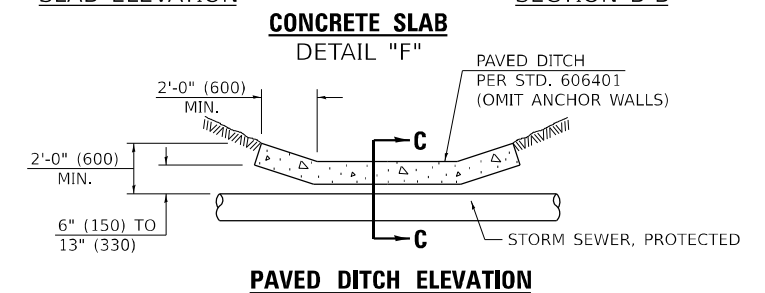
**SLAB ELEVATION**

**SECTION B-B**



**SECTION C-C**

**PAVED DITCH**  
DETAIL "E"



**PAVED DITCH ELEVATION**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 61101011A**

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CHECKED -  
DATE -

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DATE -

REVISED - 11/06  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

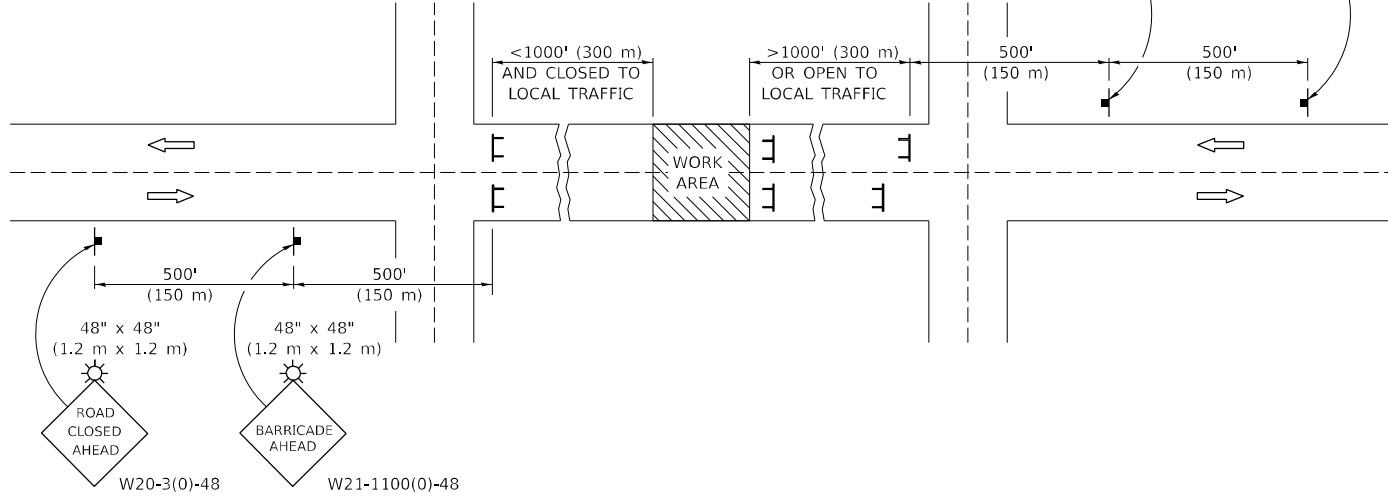
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	63
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	

# ROAD CLOSURE

# SIDEROAD / STREET CLOSURE

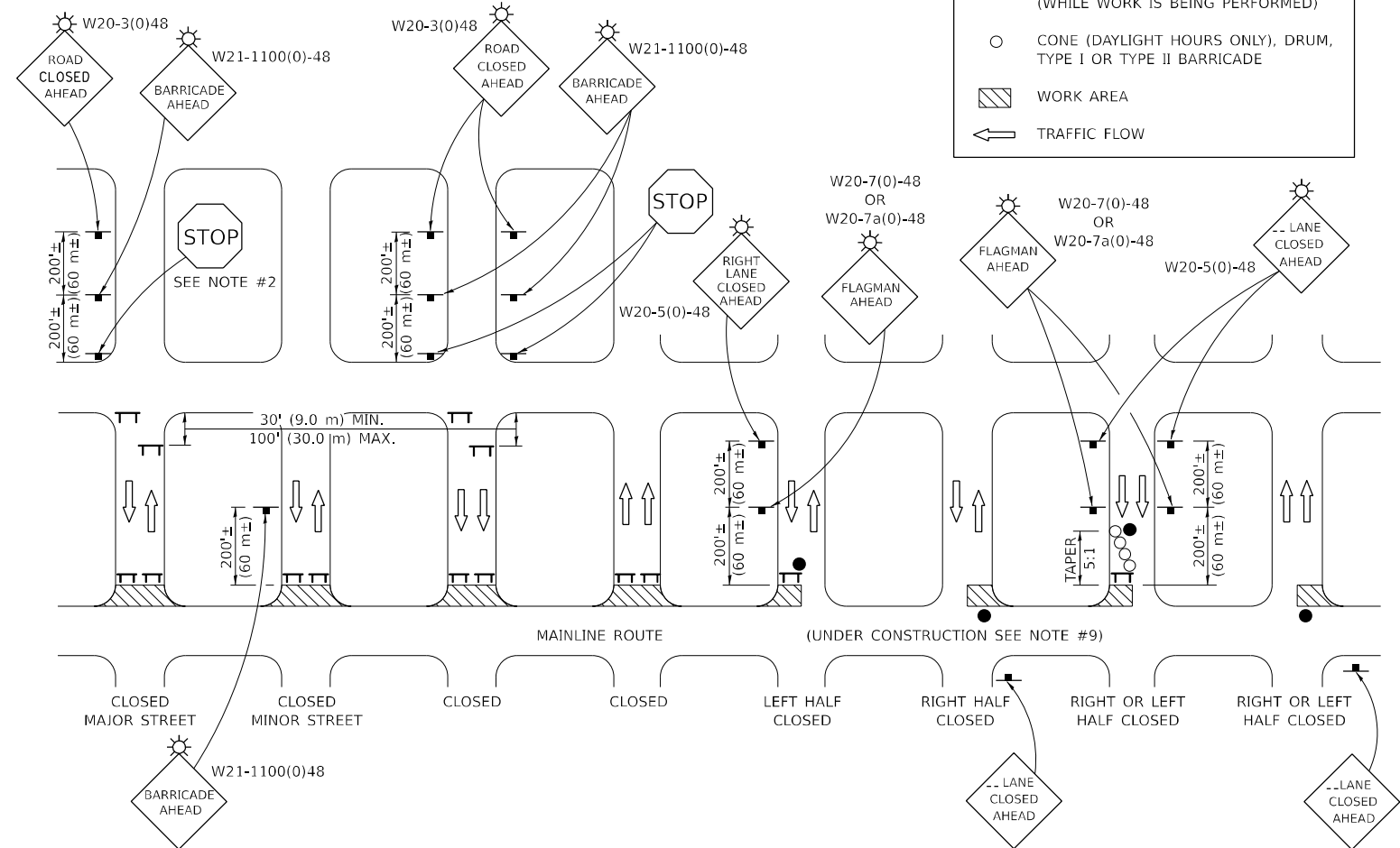
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

### DISTRICT 5 DETAIL NO. 7020000

MODEL: D:\proj\11111111\11111111.dwg; FILE NAME: 11111111.dwg; USER: WBE; DATE: 2/27/2023; PROJECT: DISTRICT 5 DETAIL NO. 7020000



USER NAME =	kuirich	DESIGNED -	REVISOR -
DRAWN -		CHECKED -	REVISIONS -
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PLOT DATE =	2/27/2023		

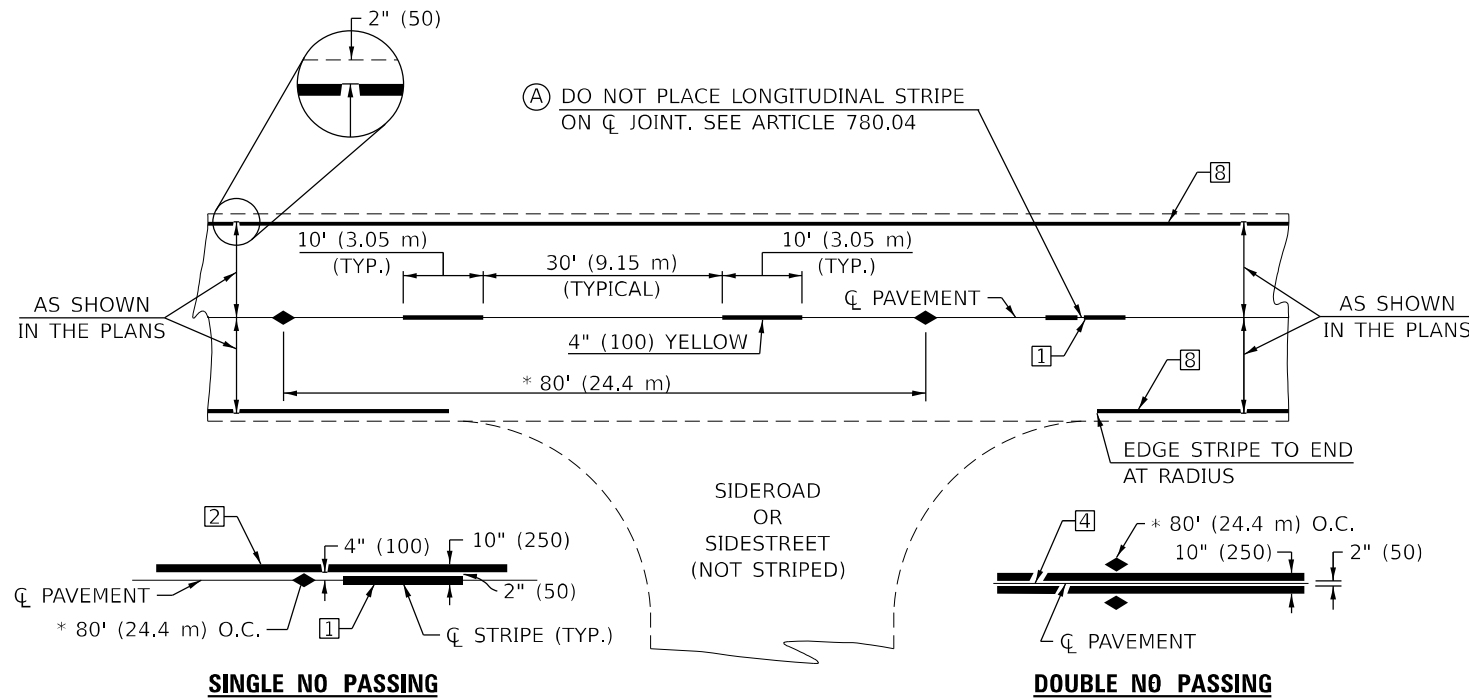
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES  
(ROAD & SIDEROAD / STREET CLOSURES)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	64
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				





\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

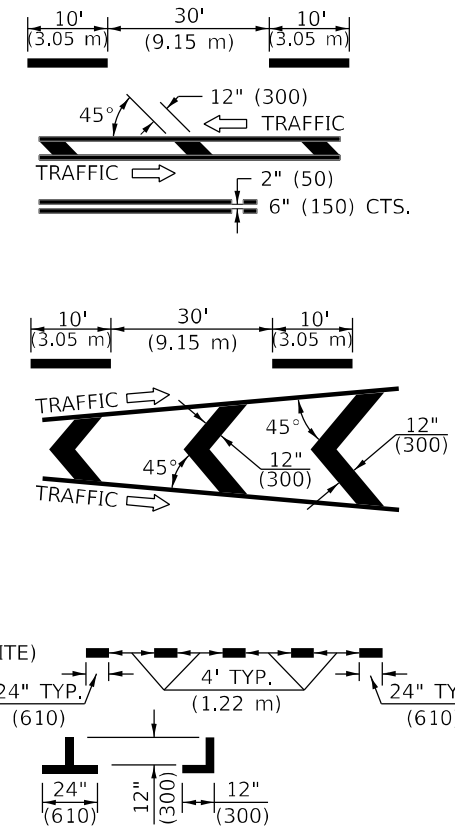
**TWO LANE/TWO WAY**

**TYPICAL PAVEMENT MARKING LEGEND**

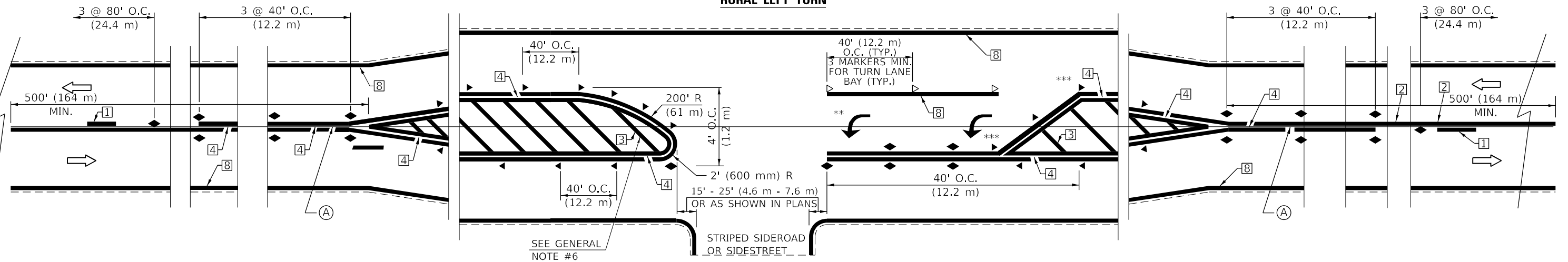
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



**RURAL LEFT TURN**



\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.  
 \*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

MODEL: D:\p\p\...  
 FILE NAME: PLUS\X5\05\51\X5\5007...  
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 PROJECT: 199-027 DS\_VI\_Garret...  
 DRAWING: 70909-PAVEMENT MARKING.dgn



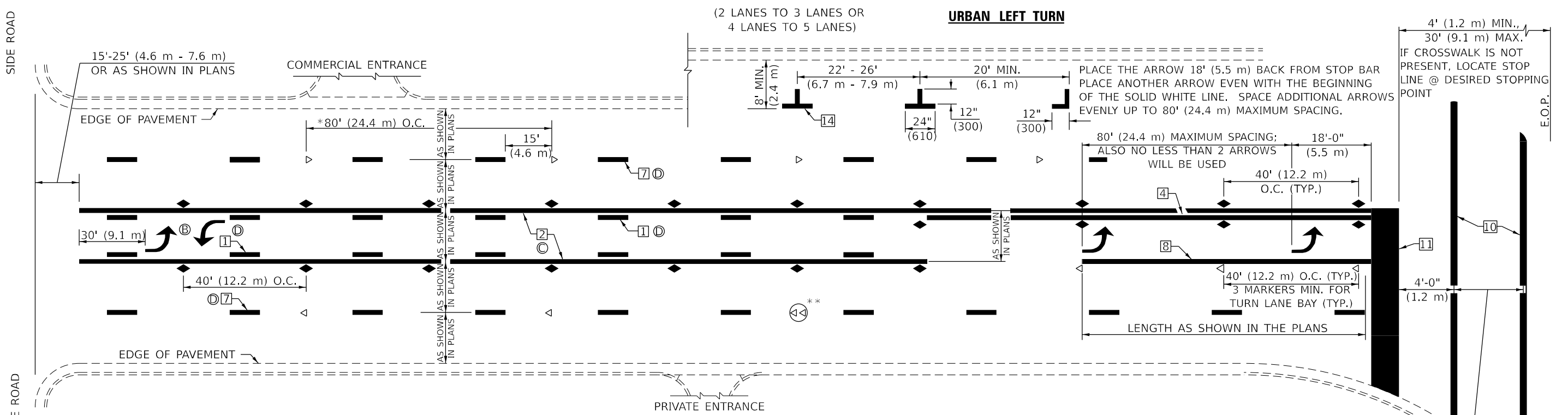
USER NAME = kulrich	DESIGNED -	REVISED - 9/2009 KJT
PLOT SCALE = 40,000' / in.	DRAWN -	REVISED - 4/2014 JLA
PLOT DATE = 2/27/2023	CHECKED -	REVISED - 3/2019 SWN
	DATE -	REVISED - 8/2022 JLA

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70909	(104)RS-2	CHAMPAIGN	72	65
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				

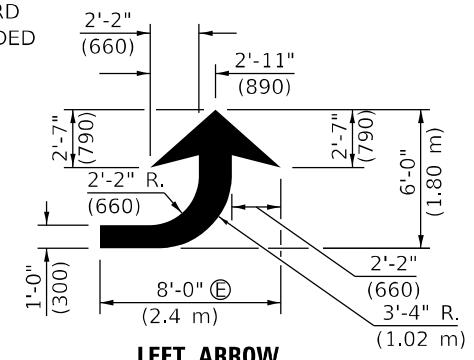


\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

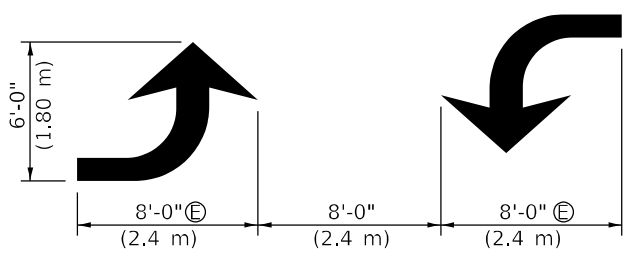
**GENERAL NOTES:**

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [ ] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [ ] OR [ ] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



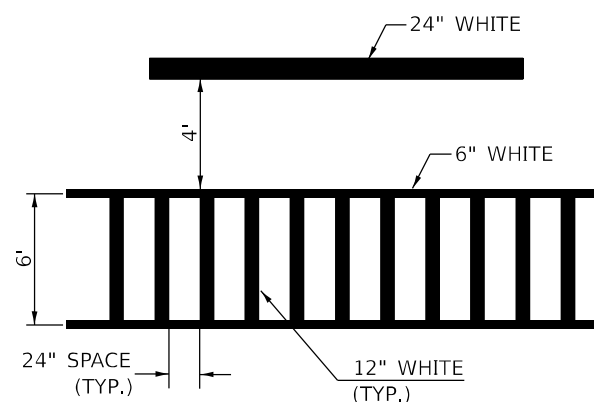
**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

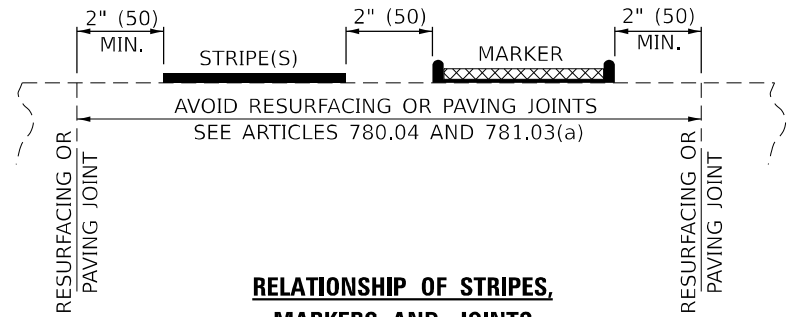


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

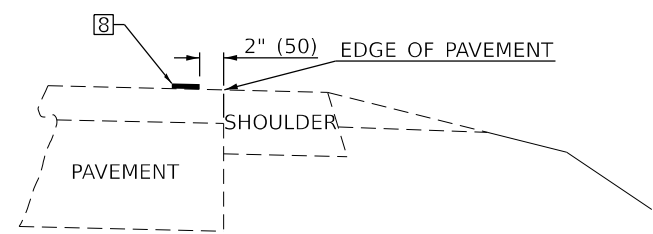
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT**

(SAFETY SHOULDER OR PAVED SURFACE)  
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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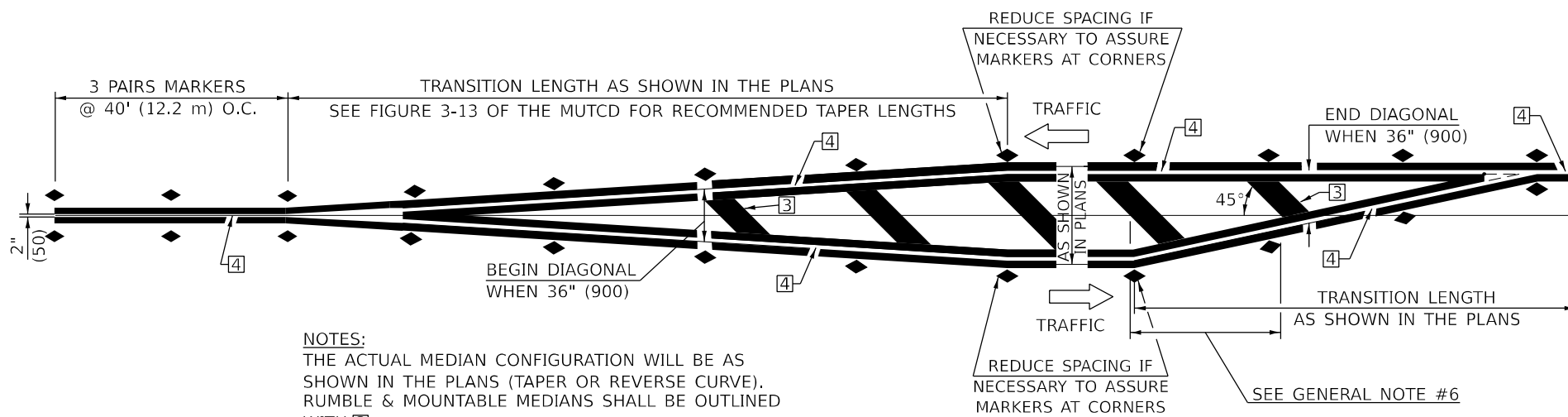
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PLOT SCALE = 40,000' / in.	DRAWN -	REVISED - 4/2014 JLA
PLOT DATE = 2/27/2023	CHECKED -	REVISED - 3/2019 SWN
	DATE -	REVISED - 8/2022 JLA

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	66
			CONTRACT NO. 70A93	
			ILLINOIS FED. AID PROJECT	

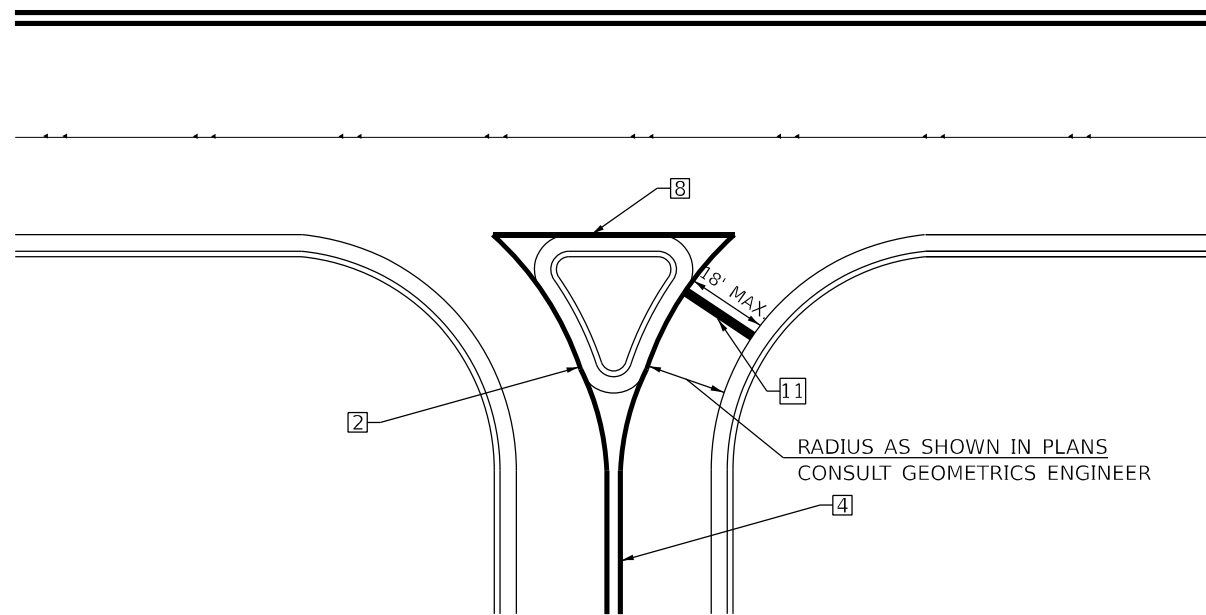


NOTES:  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

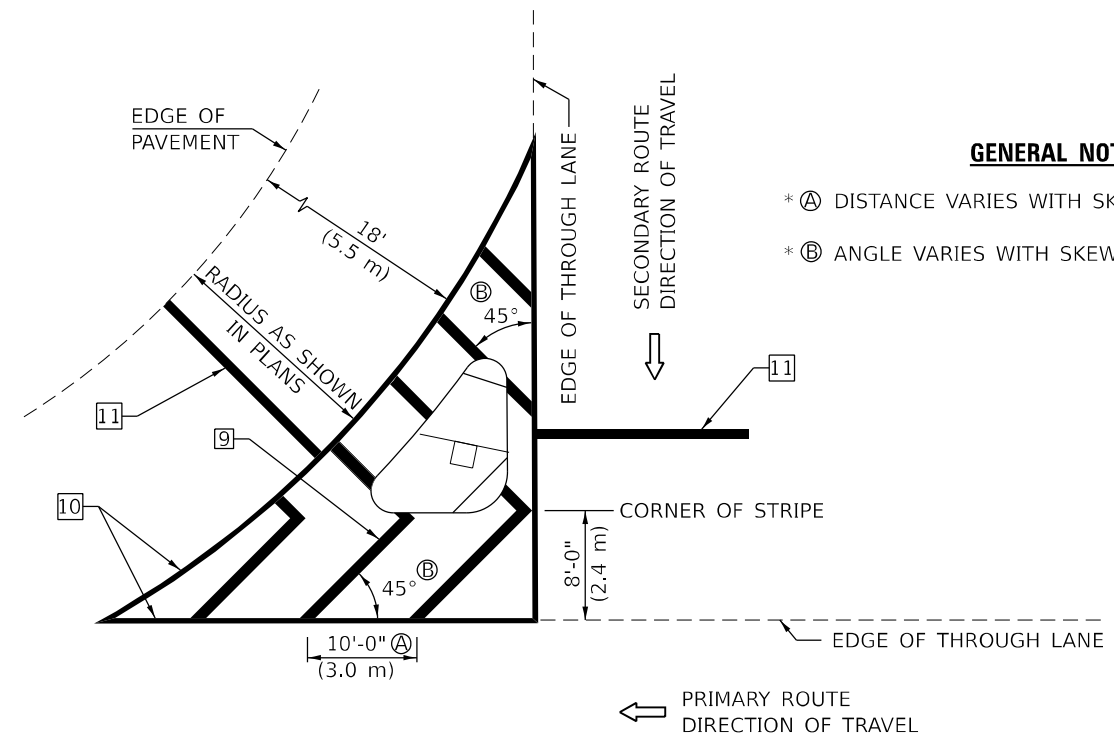
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
 <30 MPH USE 15' (<50 km/h USE 4.5 m)  
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
 >45 MPH USE 30' (>75 km/h USE 9.0 m)



**RIGHT IN - RIGHT OUT ACCESS**



**ISLAND**

\* FOR RIGHT TURN LANE AND ISLAND STRIPING CONSULT GEOMETRICS ENGINEER.

**GENERAL NOTES**

- \* A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \* B ANGLE VARIES WITH SKEW OF INTERSECTION.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

MODEL: D:\p\11... CIVIL DESIGN, INC. WBE / DBE EFFINGHAM, IL LIC. # 184.003222



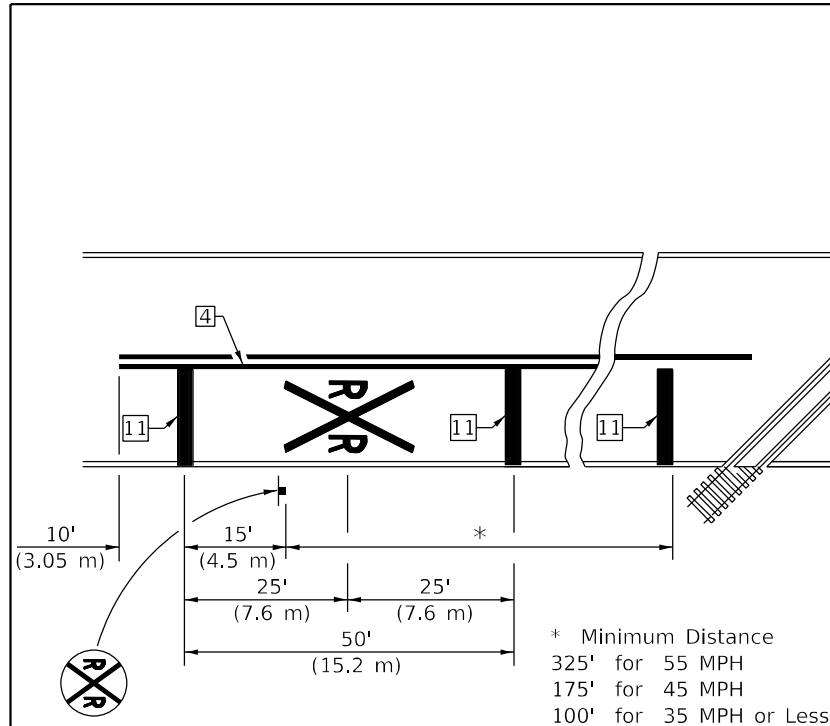
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PLOT SCALE = 40,000' / in.	DRAWN -	REVISD - 4/2014 JLA
PLOT DATE = 2/27/2023	CHECKED -	REVISD - 3/2019 SWN
	DATE -	REVISD - 8/2022 JLA

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

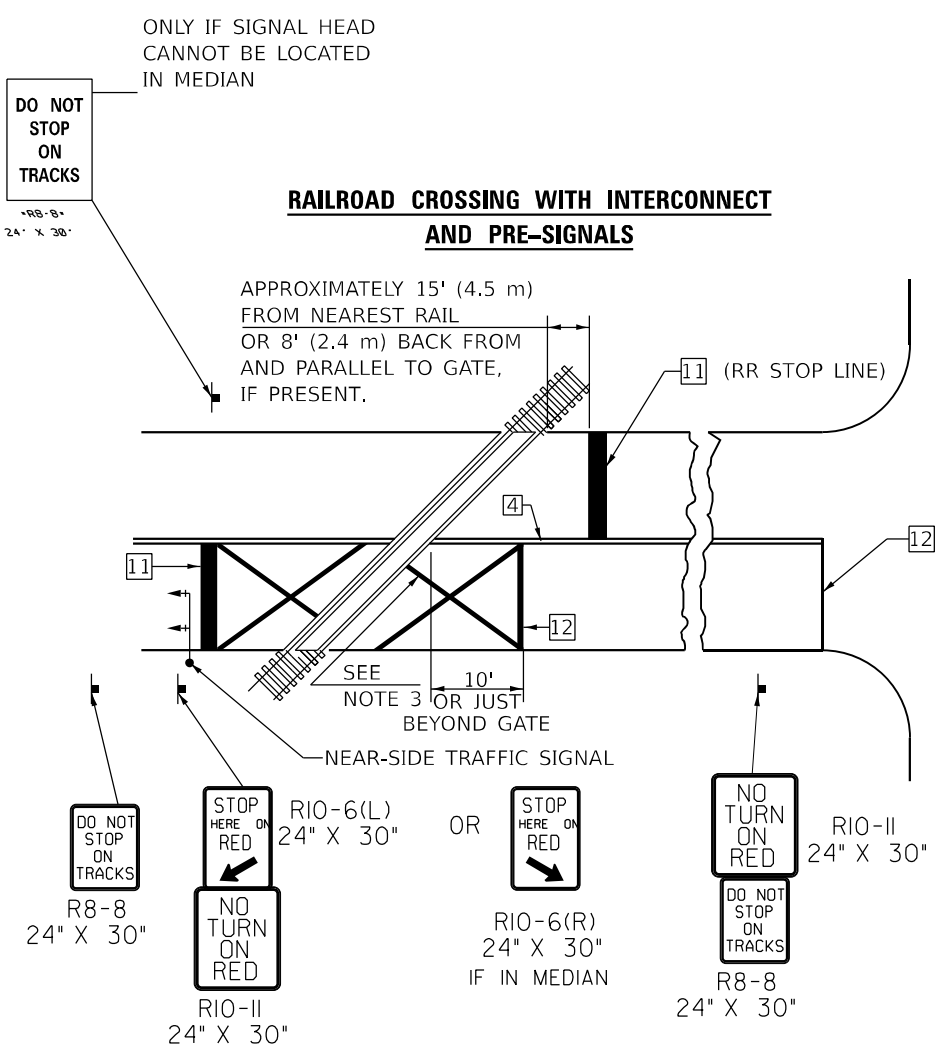
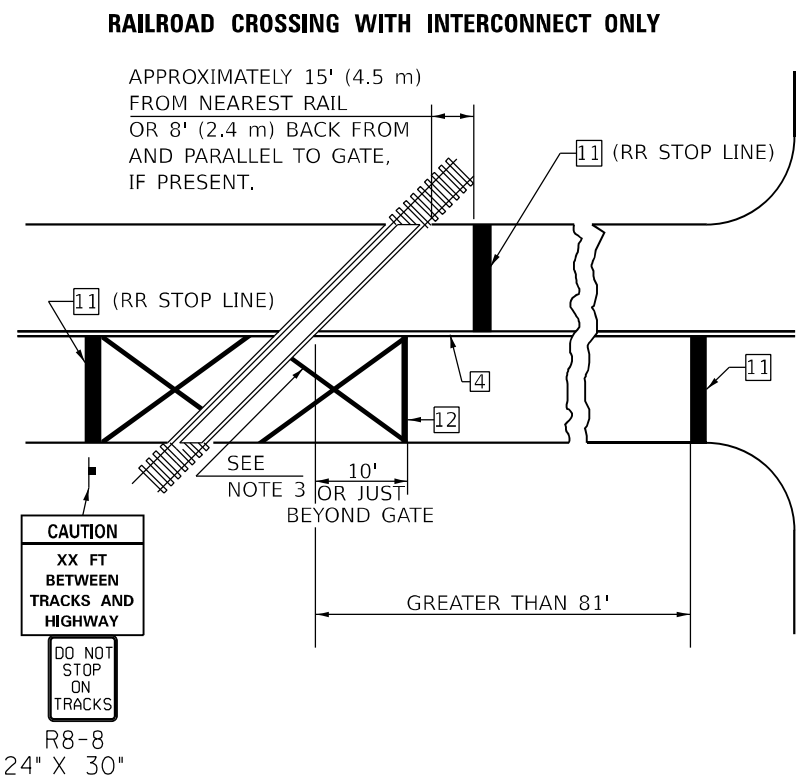
**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	67
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

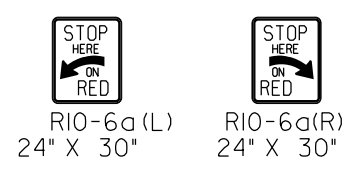


**SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING**

**GENERAL NOTES**

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
- XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

**ALTERNATE SIGNS**



**NOTES**

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAA**

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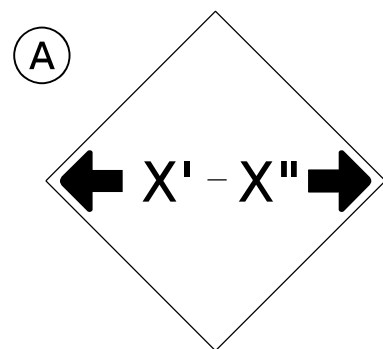
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	DRAWN -	REVISED - 4/2014 JLA
PLOT SCALE = 40,000' / in.	CHECKED -	REVISED - 3/2019 SWN
PLOT DATE = 2/27/2023	DATE -	REVISED - 8/2022 JLA

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

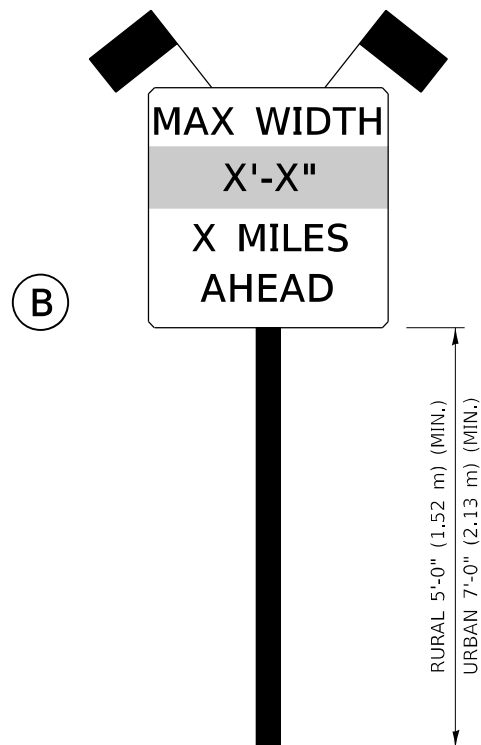
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	68
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



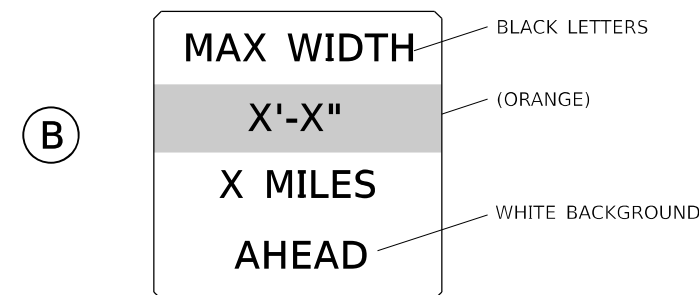
**W12-2(O)-48"x48"(1200x1200)**

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



**SIGN PANEL, TYPE II**



**W12-I103(O)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS**

**GENERAL NOTES**

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

NOTES:  
MAX WIDTH: 13'-5" FOR STAGE 1  
MAX WIDTH: 9'-9" FOR STAGE 2

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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USER NAME = kujrich	DESIGNED -	REVISED - 05/08
	DRAWN -	REVISED - 10/08 KJT
PLOT SCALE = 40,000' / in.	CHECKED -	REVISED - 07/09 KJT
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

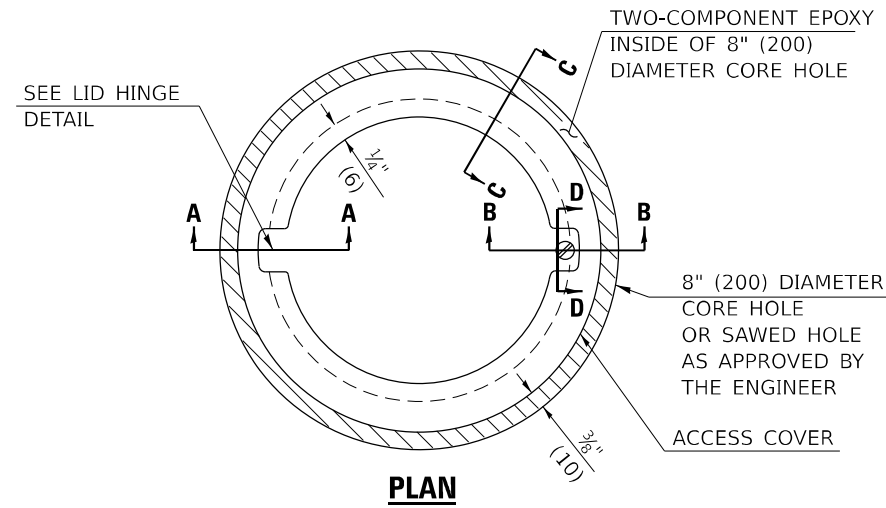
**WIDTH RESTRICTION SIGNING**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. X7200201**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	69
			CONTRACT NO. 70A93	
		ILLINOIS	FED. AID PROJECT	

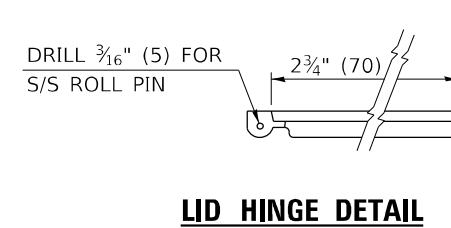
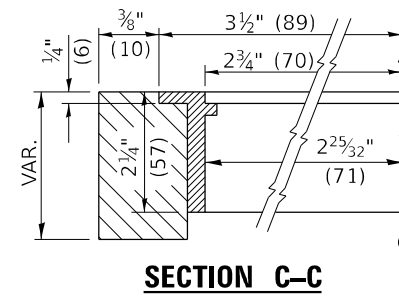
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



**LEGEND**

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

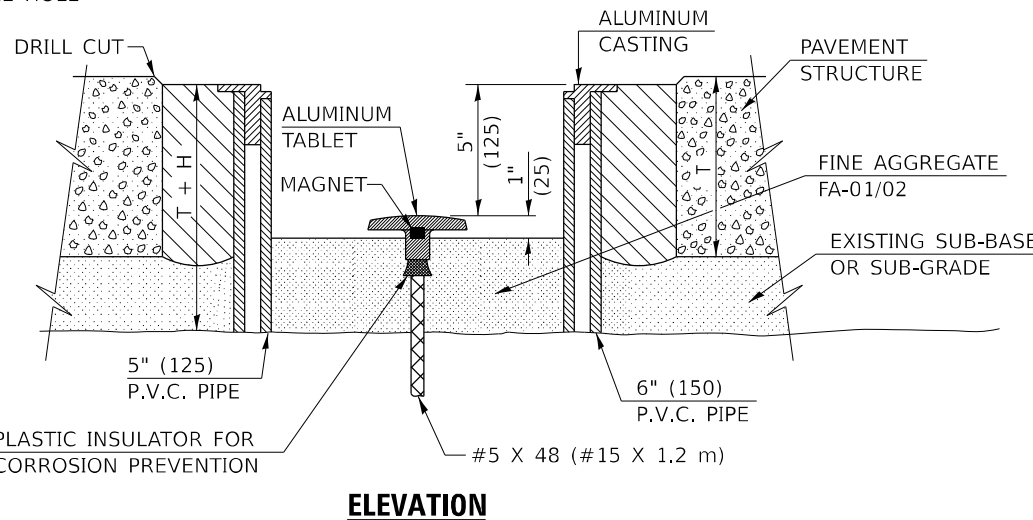
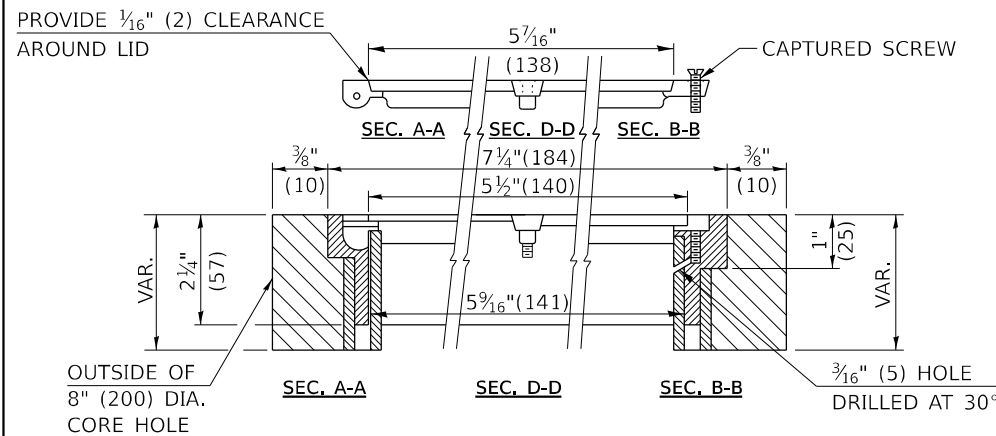
T = THICKNESS OF PAVEMENT STRUCTURE  
H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS.

RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 5/8" X 48" (#15 X 1.2 m) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.	



**GENERAL NOTES**

1. ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE.
2. BACKFILL WITH FINE AGGREGATE - FA-01/02.
3. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
6. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) BELOW THE FINAL SURFACE.
7. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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USER NAME = kjlrich	DESIGNED -	REVISED - 11/06
PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 2/27/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

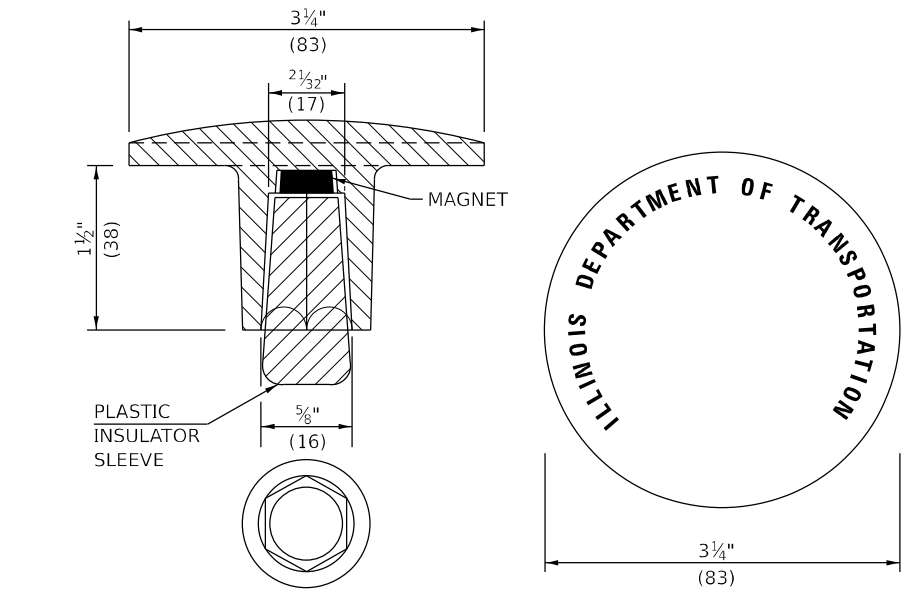
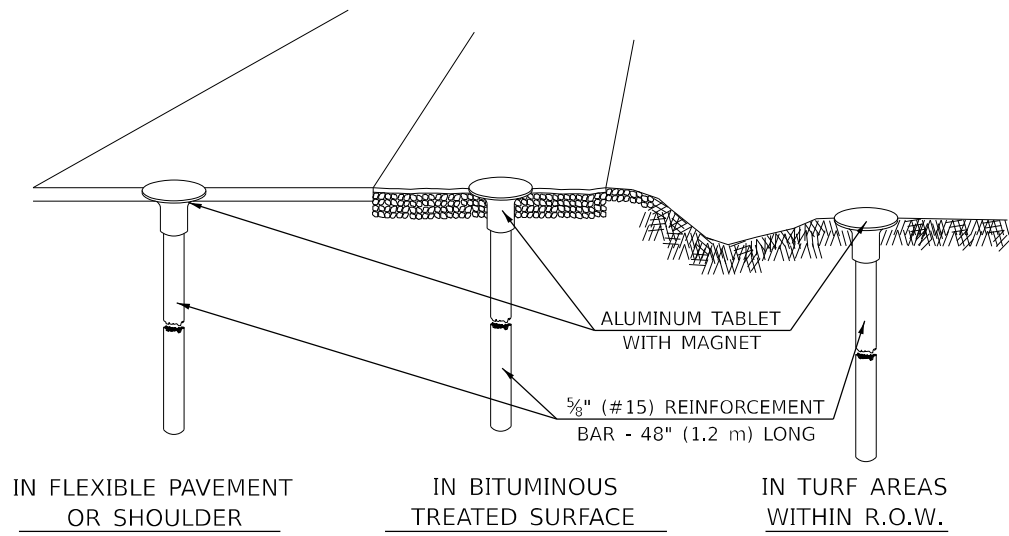
SCALE:			
SHEET 1	OF 1	SHEETS	STA. TO STA.

SURVEY MARKER VAULT

DISTRICT 5 DETAIL NO. X0301232			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
709	(104)RS-2	CHAMPAIGN	72
			SHEET NO. 70
CONTRACT NO. 70A93			
ILLINOIS FED. AID PROJECT			

**XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)**

TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



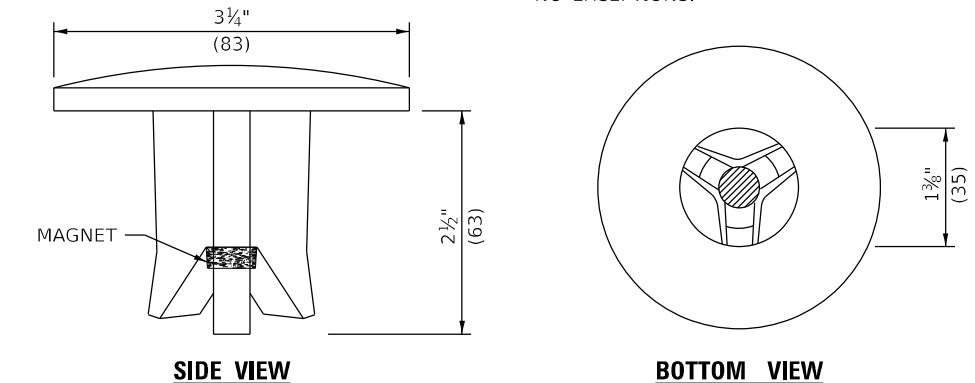
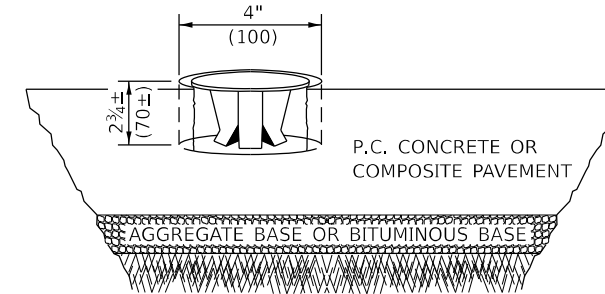
THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

**GENERAL NOTES**

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE 1 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE REINFORCEMENT BAR AND ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE.
2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED ±1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

**XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)**

TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

**GENERAL NOTES**

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**SPECIFICATIONS FOR ALUMINUM TABLET**

SURVEY CAP FOR REBAR. 3 1/4" (83 mm) CONVEX SURVEY CAP FOR 5/8" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1 1/2" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa), ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

**SPECIFICATIONS FOR REBAR**

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE 5/8" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR 5/8" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

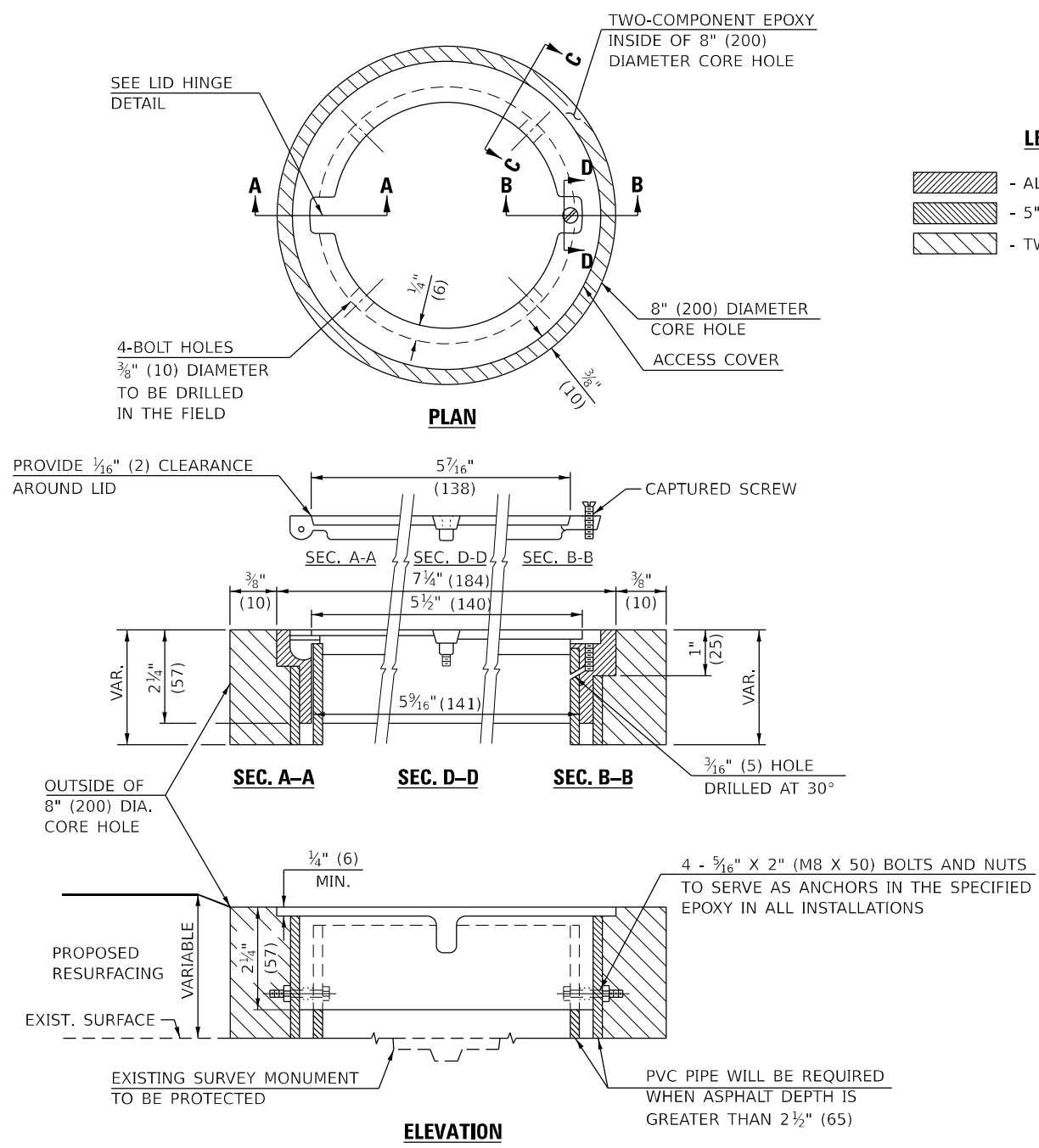
**DISTRICT 5 DETAIL NO. XZ193AAA**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	71
CONTRACT NO. 70A93				
ILLINOIS FED. AID PROJECT				



USER NAME = kjlrkch	DESIGNED -	REVISED - 11/06
PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED - 11/10
PLOT DATE = 2/27/2023	CHECKED -	REVISED -
	DATE -	REVISED -

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



**LEGEND**

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS.

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS.	
4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY,	
5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).	

**GENERAL NOTES**

1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
4. ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
5. ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
6. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
7. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT COVER ASSEMBLY

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. Z0070100**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	(104)RS-2	CHAMPAIGN	72	72
CONTRACT NO. 70A93			ILLINOIS FED. AID PROJECT	