

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	1
		ILLINOIS	CONTRACT NO. 78A15	

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7

PROPOSED
HIGHWAY PLANS

FAS ROUTE 1911 (OLD US 51)
SECTION 12CR-1

CULVERT REPLACEMENT OVER DITCH
UNION COUNTY

TRAFFIC DATA

FAS 1911 (OLD US 51)
EXISTING ADT = 3110 (2025)
%SU = 60 (1.93%)
%MU = 40 (1.29%)

TOWNSHIPS

COBDEN DISTRICT 2
PRECINCT

PROPOSED SN 091-7093
STRUCTURE STA. 757+23.72
SINGLE BARREL PRECAST BOX CULVERT
(12'-0" X 8'-0" X 27'-0") WITH CAST IN PLACE
RETAINING WALL (E. SIDE) AND CAST IN PLACE
WINGWALLS (W. SIDE) 42'-0" TOTAL CULVERT LENGTH,
NO SKEW.

EXISTING SN 091-7057
STRUCTURE STA. 757+23.72
CAST IN PLACE SINGLE BARREL BOX CULVERT
(12'-0" X 8'-0" X 30'-0") NO SKEW.

DESIGN DESIGNATION : MAJOR COLLECTOR

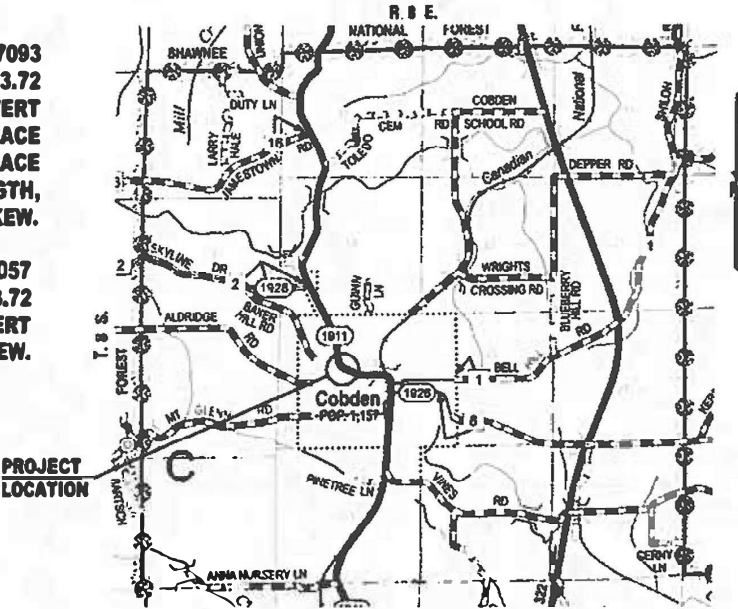
COORDINATE SYSTEM : NORTH AMERICAN DATUM (NAD) 83
ILLINOIS STATE PLANE WEST ZONE
POSTED SPEED : 45 MPH

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: EHREN KIRBY
PROJECT DESIGNER: VEENSTRA & KIMM, INC.

CONTRACT NO. 78A15

C-99-065-23



LOCATION MAP

GROSS LENGTH = 47.00 FT. = 0.009 MILES
NET LENGTH = 47.00 FT. = 0.009 MILES



Christopher P. Kohlmeier 2/20/25
EXPIRATION DATE 11/30/2025



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 3 20 25
Lora S. Ransome
REGION FIVE ENGINEER
May 9 2025
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
May 9 2025
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

MODEL: Default
FILE NAME: \\p1p1h1a1r1050003951-IL DOT District 9\0595-0001-0016 U551 Culvert Caddent1 Ph3 Union Ck Design and Planning\CDOC\ADD Sheets\078A15.rvt;signature.dgn

Prepared By: Sudan Re
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Car M
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: [Signature]
DISTRICT OPERATIONS ENGINEER

Examined By: _____
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Bennett
DISTRICT CONSTRUCTION ENGINEER

Examined By: Ann Hays
DISTRICT MATERIALS ENGINEER

USER NAME	= ckohlrus	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= \$SCALES	CHECKED	-	REVISED	-
PLOT DATE	= 2/19/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEALS & SIGNATURES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12 CR-1	UNION	42	2
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- 1.) THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- 2.) AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
EARTH	110 LBS/CU. YD.

COMMITMENTS

- 1.) ALL EMERGENCY SERVICES INCLUDING POSTAL SERVICES IN UNION COUNTY AND THE DISTRICT 9 TRAFFIC CONTROL SUPERVISOR SHALL BE NOTIFIED THREE WEEKS PRIOR TO THE CLOSING OF OLD US 51 FOR THE PLACEMENT OF THIS SINGLE BARREL BOX CULVERT.

INDEX OF SHEETS

1	TITLE SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES
4-7	SUMMARY OF QUANTITIES
8	ALIGNMENT TIES & BENCHMARKS
9-11	TYPICAL ROADWAY SECTIONS
12-13	SCHEDULE OF QUANTITIES
14	PLAN & PROFILE
15	CHANNEL PLAN
16	DETOUR PLAN
17	STAGE CONSTRUCTION PLAN
18	STAGING TYPICAL SECTIONS
19	PAVEMENT MARKING PLAN
20	EROSION CONTROL PLAN
21	ROW PLAN
22-30	STRUCTURE PLANS (SN 030-0025)
31-33	DISTRICT 9 STANDARDS, SEEDING AND MULCH,
	STEP CONSTRUCTION ON EXISTING FILL, 24' PCC PAVEMENT
34-38	CROSS SECTIONS
39-42	CHANNEL CROSS SECTIONS

STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02 AREAS OF REINFORCEMENT
280001-07 TEMPORARY EROSION CONTROL SYSTEMS
420001-10 PAVEMENT JOINTS
420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
630001-13 STEEL PLATE BEAM GUARDRAIL
630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631066 TRAFFIC BARRIER TERMINAL, TYPE 14
666001-01 RIGHT-OF-WAY MARKERS
701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-19 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-10 TEMPORARY CONCRETE BARRIER
704001-08 TRAFFIC CONTROL DEVICES
725001-01 OBJECT AND TERMINAL MARKERS
780001-05 TYPICAL PAVEMENT MARKINGS
782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

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**VEENSTRA
& KIMM INC.**
Springfield, IL. Phone: (217)544-8033
IL Design Firm No. 184-001939

USER NAME = ckohirus	DESIGNED =	REVISED =
DRAWN =	REVISD =	
PLOT SCALE = \$SCALES	CHECKED =	REVISED =
PLOT DATE = 2/27/2025	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET	OF	SHEETS
STA	TO STA.		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	4
CONTRACT NO.				
ILLINOIS FED AID PROJECT				

100% STATE					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	UNION	UNION
				F.A.S. 1911	F.A.S. 1911
				CONST CODE	CONST CODE
				ROADWAY	BOX CULVERT
				0004	0004
				091-7093	091-7093
20200100	EARTH EXCAVATION	CU YD	239	239	
20400800	FURNISHED EXCAVATION	CU YD	230	230	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	194		194
25000210	SEEDING, CLASS 2A	ACRE	0.4	0.4	
25000350	SEEDING, CLASS 7	ACRE	0.4	0.4	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36	36	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36	36	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36	36	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.8	0.8	
25100115	MULCH, METHOD 2	ACRE	0.4	0.4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40	
28000400	PERIMETER EROSION BARRIER	FOOT	133	133	
28100107	STONE RIPRAP, CLASS A4	SQ YD	263	163	100
28200200	FILTER FABRIC	SQ YD	263	163	100

REV - MS

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100% STATE					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	UNION	UNION
				F.A.S. 1911	F.A.S. 1911
				CONST CODE	CONST CODE
				ROADWAY 0004	BOX CULVERT 0004
				091-7093	091-7093
42000060	WELDED WIRE REINFORCEMENT	SQ YD	115	115	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	115	115	
44000100	PAVEMENT REMOVAL	SQ YD	115	115	
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	365	365	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	44		44
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12660		12660
50900207	STEEL RAILING, TYPE CO-10	FOOT	39		39
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	405		405
52200600	GEOTEXTILE RETAINING WALL	SQ FT	45		45
54003000	CONCRETE BOX CULVERTS	CU YD	70.0		70.0
54011208	PRECAST CONCRETE BOX CULVERTS 12' X 8'	FOOT	27		27
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	67		67
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	87.5	87.5	

* SPECIALTY ITEM

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VEENSTRA

& KIMM INC.

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IL Design Firm No. 184-001939

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	6
CONTRACT NO.				
ILLINOIS FED AID PROJECT				

100% STATE					
				UNION	UNION
				F.A.S. 1911	F.A.S. 1911
				CONST CODE	CONST CODE
				ROADWAY	BOX CULVERT
				0004	0004
				091 - 7093	091 - 7093
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	44	44	
* 63100119	TRAFFIC BARRIER TERMINAL, TYPE 14	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	350	350	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	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	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	34	34	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350	

* SPECIALTY ITEM

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PLOT DATE = 2/27/2025	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET	OF	SHEETS
STA		TO STA.	

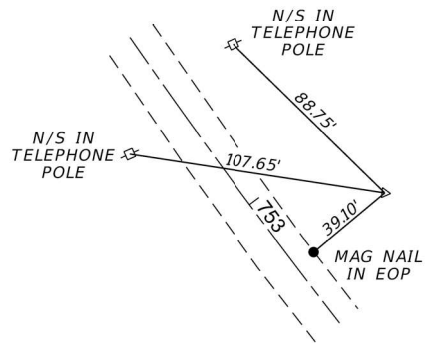
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	7
CONTRACT NO.				
ILLINOIS FED AID PROJECT				

100% STATE

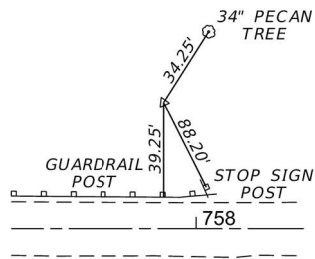
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	UNION	UNION
				F.A.S. 1911	F.A.S. 1911
				CONST CODE	CONST CODE
				ROADWAY 0004	BOX CULVERT 0004
				091 - 7093	091 - 7093
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	36	36	
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4	4	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1360	1360	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16	
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	227	227	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	67		67
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
X7200203	DETOUR SIGNING	L SUM	1	1	
* Z0054517	ROCK FILL - FOUNDATION	TON	67		67

* SPECIALTY ITEM

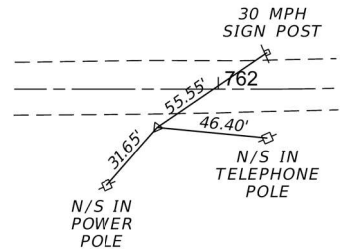
REV - MS



09170572
IP WITH ORANGE CAP
47.87' LT STA. 753+30.21
N 317884.945
E 2559214.695
FI. 590.963

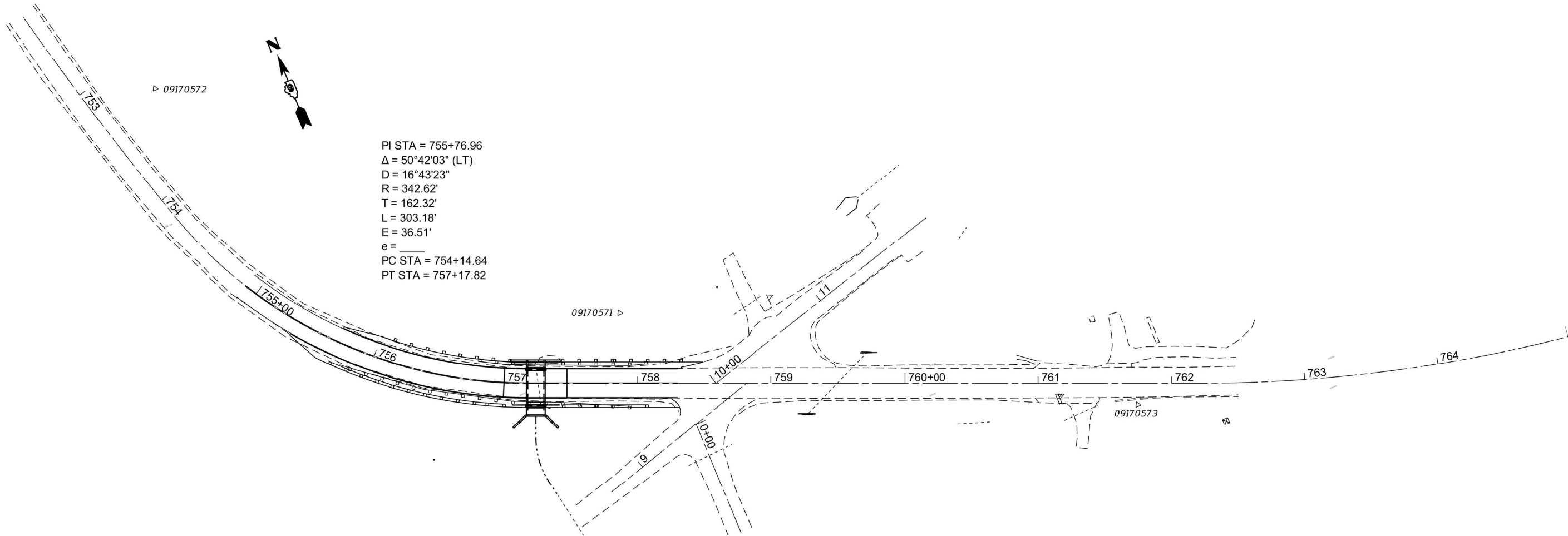


09170571
IP WITH ORANGE CAP
52.66' LT STA. 757+86.52
N 317590.910
E 2559465.764
FI. 595.296



09170573
IP WITH ORANGE CAP
15.99' RT STA. 74.65'
N 317371.898
E 2559793.400
FI. 609.714

"□" CUT SET ON CENTER OF NORTH HEADWALL OF SN 091-7057. EL. 593.264



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VEENSTRA
& KIMM INC.

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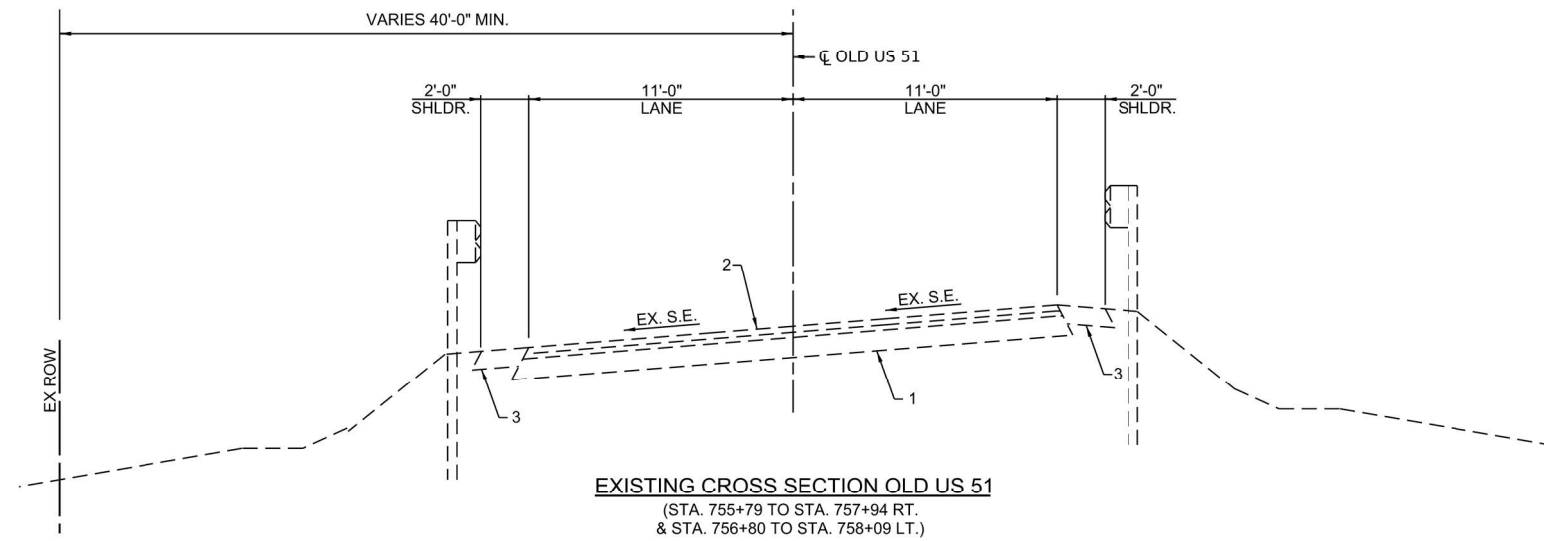
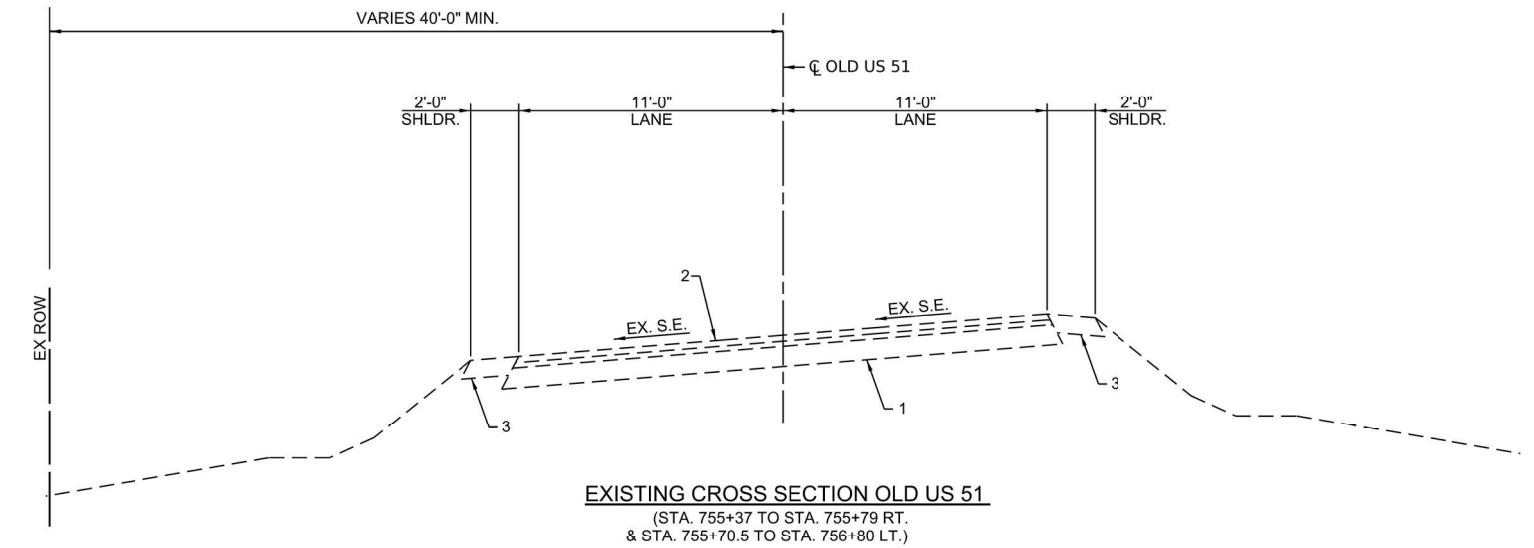
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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/19/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	8
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



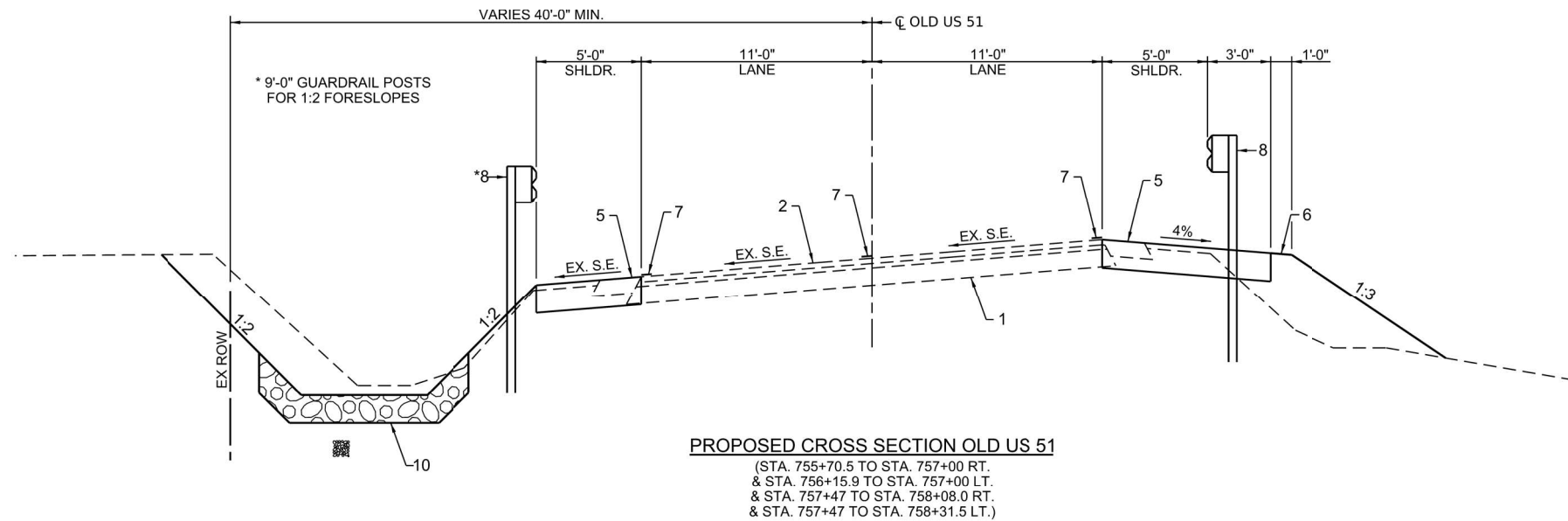
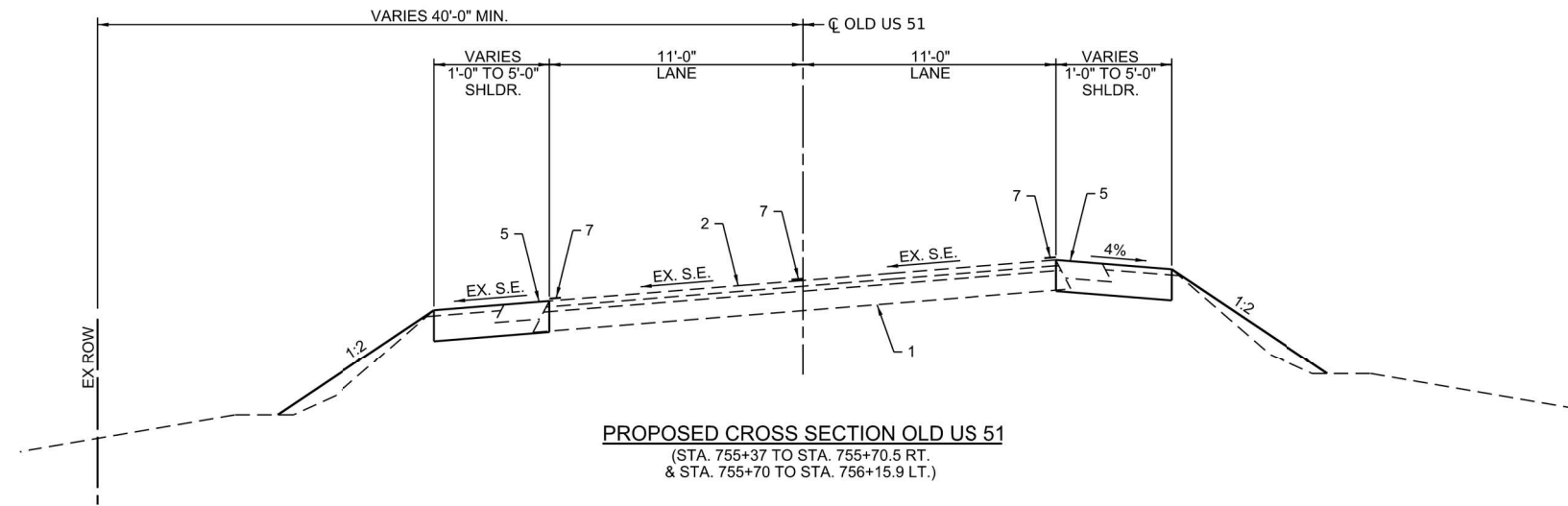
PAVEMENT LEGEND

- 1 - EX HMA PAVEMENT
- 2 - EX HMA OVERLAYS
- 3 - EX AGGREGATE SHOULDERS
- 4 - PR PCC PAVEMENT 10"
- 5 - PR PCC SHOULDERS 8"
- 6 - PR EARTH SHOULDER
- 7 - PR PAVEMENT MKG 4"
- 8 - PR GUARDRAIL
- 9 - PR TEMP PAVEMENT MKG 4"
- 10 - PR CLASS A4 DITCH

MODEL: Default
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	9
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



PAVEMENT LEGEND

- 1 - EX HMA PAVEMENT
- 2 - EX HMA OVERLAYS
- 3 - EX AGGREGATE SHOULDERS
- 4 - PR PCC PAVEMENT 10"
- 5 - PR PCC SHCULDERS 8"
- 6 - PR EARTH SHOULDER
- 7 - PR PAVEMENT MKG 4"
- 8 - PR GUARDRAIL
- 9 - PR TEMP PAVEMENT MKG 4"
- 10 - PR CLASS A4 DITCH

MODEL: Default
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VEENSTRA & KIMM INC.
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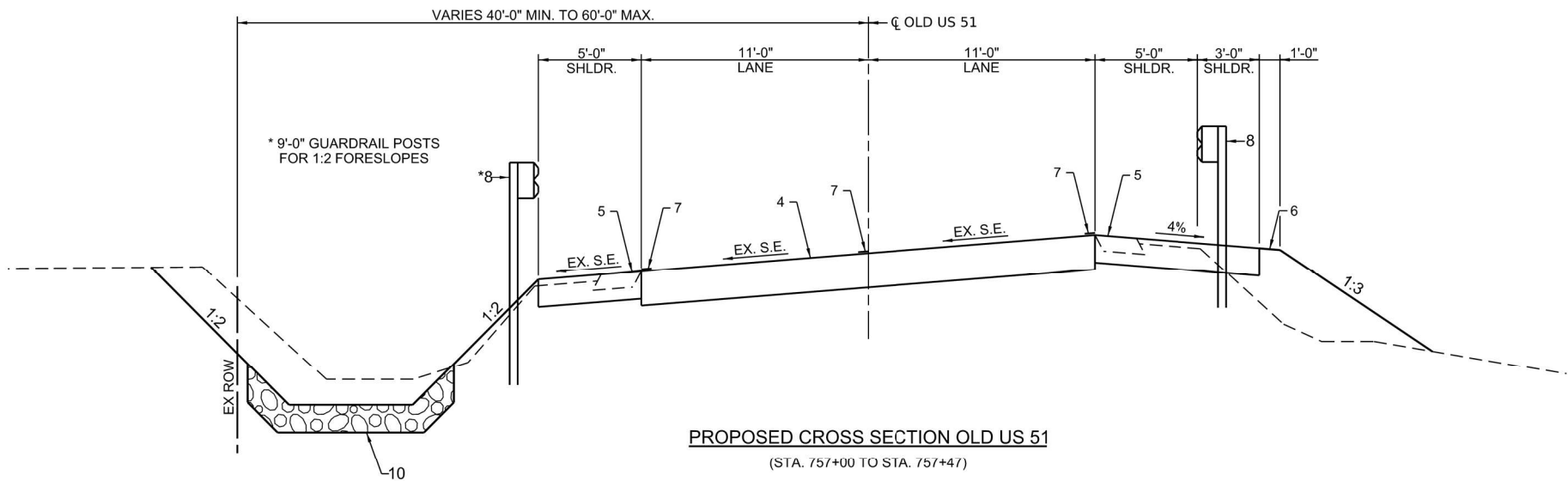
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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/19/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY SECTIONS

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	10
CONTRACT NO. 78A15				
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PAVEMENT LEGEND

- 1 - EX HMA PAVEMENT
- 2 - EX HMA OVERLAYS
- 3 - EX AGGREGATE SHOULDERS
- 4 - PR PCC PAVEMENT 10"
- 5 - PR PCC SHOULDERS 8"
- 6 - PR EARTH SHOULDER
- 7 - PR PAVEMENT MKG 4"
- 8 - PR GUARDRAIL
- 9 - PR TEMP PAVEMENT MKG 4"
- 10 - PR CLASS A4 DITCH

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	DRAWN -	REVISED -
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PLOT DATE = 2/19/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL ROADWAY SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	11
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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EARTHWORK								
LOCATION	EARTH EXCAVATION	ADJUSTED SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION	REMARKS
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION		
	CU. YD.	%	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 755+37+25 TO STA. 758+49	138	25	103	409	0	0	306	
CHANNEL EARTHWORK								
STA. 10+10 TO STA. 10+63	101	25	76	0	0	0	-76	
TOTAL	239		179	409	0	0	230	

PERMANENT SEEDING						
LOCATION	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
	STA. 755+37 TO STA. 758+31 RT.	0.20	18	18	18	0.40
STA. 755+70 TO STA. 758+49 LT.	0.17	18	18	18	0.34	0.17
TOTAL	0.37	36	36	36	0.74	0.37
USE 0.40 AC			USE 0.8 TON		USE 0.40 AC	

PAVEMENT REMOVAL SCHEDULE	
LOCATION	PAVEMENT REMOVAL
	SQ. YD.
STA. 757+00 TO STA. 757+47	115
TOTAL	115

PORTLAND CEMENT CONCRETE SCHEDULE			
LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PORTLAND CEMENT CONCRETE SHOULDERS 8"	WELDED WIRE REINFORCEMENT
	SQ. YD.	SQ. YD.	SQ. YD.
STA. 757+00 TO STA. 757+47	115		115
STA. 757+37 TO STA. 758+31 RT.		226	
STA. 755+70 TO STA. 758+49 LT.		139	
TOTAL	115	365	115

TEMPORARY EROSION CONTROL ITEMS			
LOCATION	PERIMETER EROSION BARRIER	SEEDING CLASS 7	TEMPORARY EROSION CONTROL SEEDING
	FOOT	ACRE	POUND
STA. 755+37 TO STA. 758+31 RT.		0.4	40
STA. 755+70 TO STA. 758+49 LT.			
STA. 756+75 40' LT. TO STA. 757+75 40' RT. (FOLLOW ROW)	133		
TOTAL	133	0.4	40

STONE RIPRAP, CLASS A4	
LOCATION	STONE RIPRAP CLASS A4
	SQ. YD.
STA. 756+75 TO STA. 757+04.4 LT.	53
STA. 757+04.4 TO STA. 757+43.0 LT.	40
STA. 757+43.0 TO STA. 758+00 LT.	110
STA. 757+07 TO STA. 757+40 RT.	60
TOTAL	263

PAINT PAVEMENT MARKING SCHEDULE			
LOCATION	PAINT PAVEMENT MARKING - LINE 4"		
	SOLID LINE NO PASSING (YELLOW)	30' SKIP 10' DASH (YELLOW)	EDGE LINE (WHITE)
	FOOT	FOOT	FOOT
	STA. 754+90 TO STA. 758+30 LT.		340
STA. 754+90 TO STA. 758+30 CENTERLINE LT. & RT.	680		
STA. 754+90 TO STA. 758+30 RT.			340
SUBTOTAL	680		680
TOTAL	1360		

PAVEMENT MARKING REMOVAL - GRINDING	
LOCATION	PAVEMENT MARKING REMOVAL - GRINDING
	SQ. FT.
STA. 754+90 TO STA. 758+30 CENTERLINE LT. & RT.	227
TOTAL	227

CHANGEABLE MESSAGE SIGN	
LOCATION	CHANGEABLE MESSAGE SIGN
	CAL. DAY
LOCATED SOUTH OF PROJECT ON OLD US 51 PER ENGINEER'S DIRECTION	17
LOCATED NORTH OF PROJECT ON OLD US 51 PER ENGINEER'S DIRECTION	17
TOTAL	34

MODEL: Default
FILE NAME: \\uspr-fs1\apshare\0500\0595-IL DOT District 9\0595-0001-0016 US51 Culvert Caddentl PH1 Union Co Design and Planning\CADD\CADD Sheets\0978a15-sh1-schedules.dgn

GUARDRAIL SCHEDULE							
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL 6 FOOT POSTS	LONG SPAN GUARDRAIL OVER CULVERT 18 FT. 9 IN SPAN	TRAFFIC BARRIER TERMINAL TYPE 14	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL REMOVAL
	EACH	FOOT	FOOT	EACH	EACH	EACH	FOOT
STA. 755+77 TO STA. 756+27 RT.	1				1		
STA. 756+27 TO STA. 757+02 RT.		75				4	
STA. 757+02 TO STA. 757+45.75 RT.			44				
STA. 757+45.75 TO STA. 757+58.25 RT.		12.5					
STA. 757+58.25 TO STA. 758+08.25 RT.	1				1	4	
STA. 756+15.9 TO STA. 756+65.9 LT.	1				1		
STA. 756+65.9 TO STA. 757+03.7 LT.				1		4	
STA. 757+43.7 TO STA. 757+81.5 LT.				1			
STA. 757+81.5 TO STA. 758+31.5 LT.	1				1	4	
STA. 755+78 TO STA. 758+00 RT.							222
STA. 756+80 TO STA. 758+08 LT.							128
TOTAL	4	87.5	44	2	4	16	350

TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS		
LOCATION	IMPACT ATTENUATORS, TEMPORARY (FULLY-REDERECTIVE, NARROW), TEST LEVEL 2	TEMPORARY CONCRETE BARRIER
	EACH	FOOT
STA. 755+99.4 TO STA. 756+25 LT.	1	
STA. 756+25 TO STA. 758+00 LT.		175
STA. 758+00 TO STA. 758+28.6 LT.	1	
STA. 755+99.4 TO STA. 756+25 RT.	1	
STA. 756+25 TO STA. 758+00 RT.		175
STA. 758+00 TO STA. 758+28.6 RT.	1	
TOTAL	4	350

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
	EACH
STA. 756+70 40' LT. & 60' LT.	2
STA. 757+75 40' LT. & 60' LT.	2
TOTAL	4

TEMPORARY RUMBLE STRIPS	
LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
STA. 748+65 TO STA. 748+90 SOUTHBOUND	1
STA. 750+65 TO STA. 750+90 SOUTHBOUND	1
STA. 752+65 TO STA. 752+90 SOUTHBOUND	1
STA. 762+00 TO STA. 762+25 NORTHBOUND	1
STA. 764+00 TO STA. 764+25 NORTHBOUND	1
STA. 766+00 TO STA. 766+25 NORTHBOUND	1
TOTAL	6

PINNING TEMPORARY CONCRETE BARRIER	
LOCATION	PINNING TEMPORARY CONCRETE BARRIER
	EACH
STA. 756+25 TO STA. 756+37.5 LT.	6*
STA. 756+75 TO STA. 756+87.5 LT.	1
STA. 756+87.5 TO STA. 757+00 LT.	2
STA. 757+00 TO STA. 757+50 LT.	12
STA. 757+50 TO STA. 757+62.5 LT.	2
STA. 757+62.5 TO STA. 757+75 LT.	1
STA. 757+87.5 TO STA. 758+00 LT.	6*
STA. 756+25 TO STA. 756+37.5 LT.	6*
STA. 756+75 TO STA. 756+87.5 LT.	1
STA. 756+87.5 TO STA. 757+00 LT.	2
STA. 757+00 TO STA. 757+50 LT.	12
STA. 757+50 TO STA. 757+62.5 LT.	2
STA. 757+62.5 TO STA. 757+75 LT.	1
STA. 757+87.5 TO STA. 758+00 LT.	6*
TOTAL	36

*INCLUDED WITH COST OF TEMPORARY CONCRETE BARRIER

TEMPORARY BRIDGE TRAFFIC SIGNALS	
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STA. 755+40 RT.	0.25
STA. 755+65 LT.	0.25
STA. 759+25 RT.	0.25
STA. 759+50 LT.	0.25
TOTAL	1.0



USER NAME = ckohlrus	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/19/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

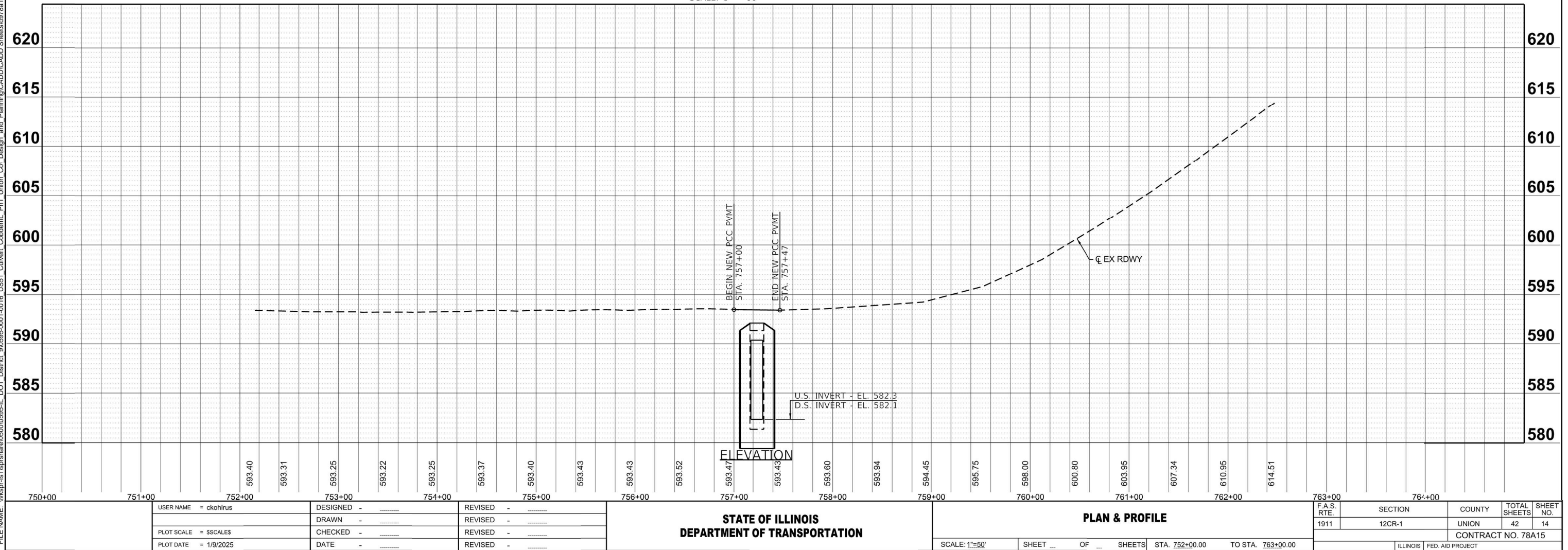
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	13
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

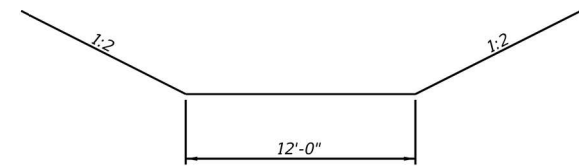
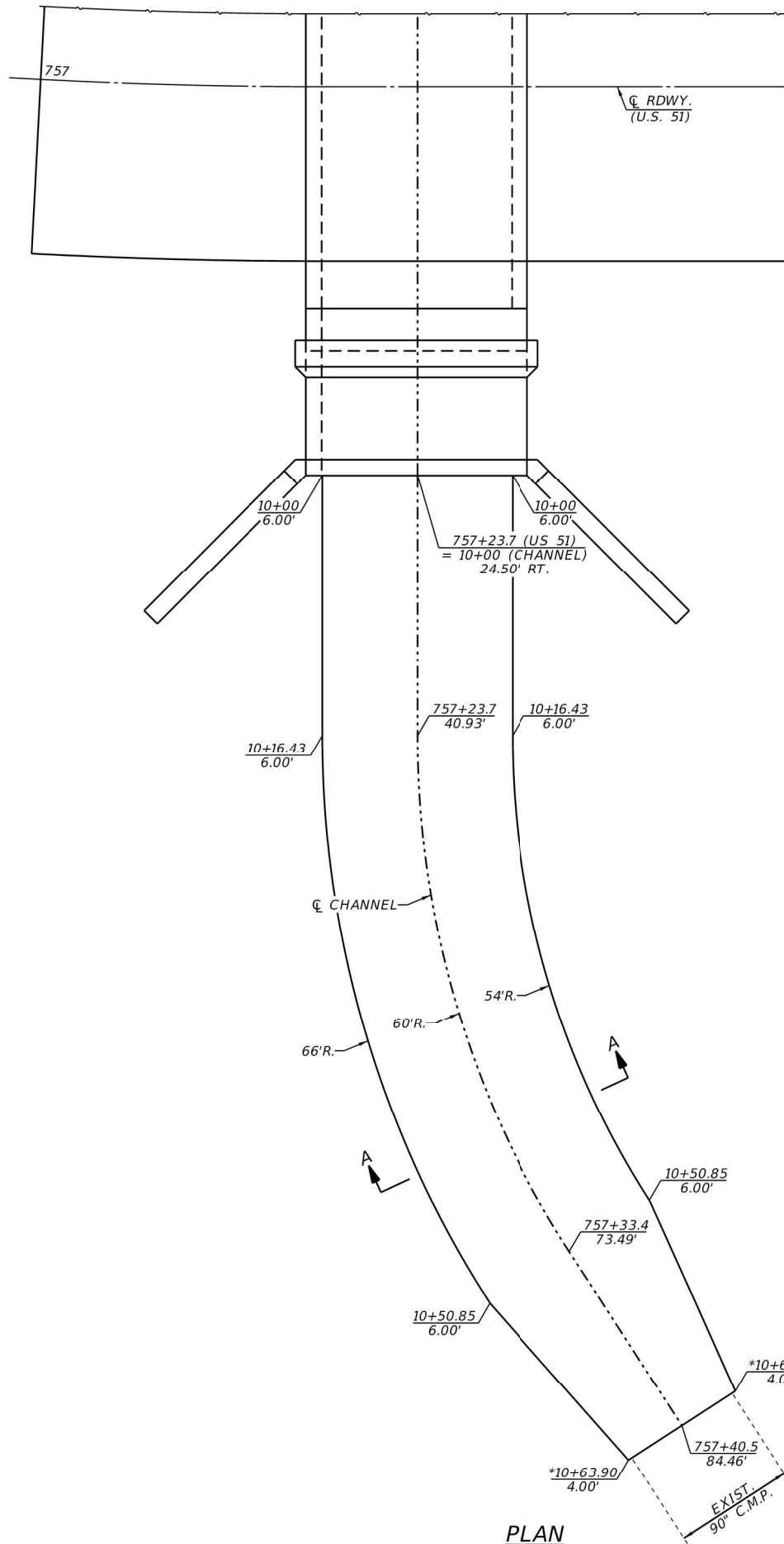
SECTION 30, T.11 S., R.1 W., 3RD P.M.

STA. 757+23.72 - $\odot$ PROPOSED STRUCTURE @ $\odot$ RDWY.
 SINGLE BARREL PRECAST BOX CULVERT
 (12'-0"W X 8'-0"H X 27'-0"L) WITH TYPE
 CO-10 RAIL (E. SIDE), PARALLEL CAST IN
 PLACE RETAINING WALL (E. SIDE) CONVENTIONAL
 CAST IN PLACE WINGS (W. SIDE) WITH LONG
 SPAN GUARDRAIL, 42'-0" TOTAL CULVERT
 LENGTH. PROP. S.N. 091-7093 NO SKEW.

PLAN

0 50 100
 SCALE: 1" = 50'





SECTION A-A

*GRADE UP TO EXISTING PIPE.
HAVE CHANNEL WIDTH MATCH PIPE WIDTH.
DO NOT DAMAGE EXISTING PIPE.

PLAN

MODEL: Default
FILE NAME: \\uspr-fs1\usprshare\0500\0595-IL DOT District 9\0595-0001\0016 US51 Culvert Caddentl PH1 Union Co Design and Planning\CADD\CADD Sheets\078A15-shl-channel plan.dgn



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IL. Design Firm No. 184-001939

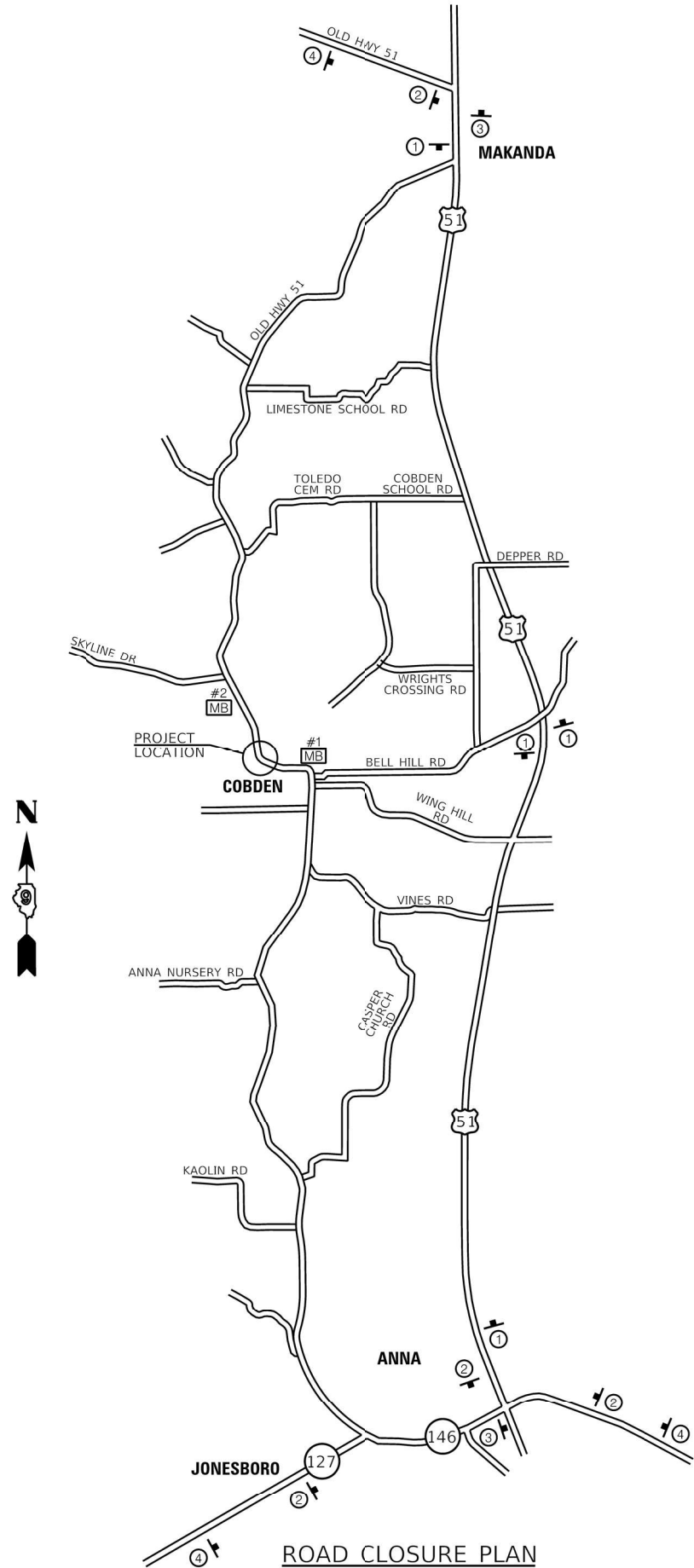
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PLOT DATE = 2/19/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL PLAN

SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	15
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



ROAD CLOSURE PLAN

PRIOR TO CLOSURE
MB - SUGGESTED CHANGEABLE MESSAGE BOARD - 2 REQUIRED
(NOTIFICATION - 2 WEEKS PRIOR TO THE START OF WORK
AND FOR THE DURATION OF THE WEEKEND CLOSURE)

PRIOR TO CLOSURE

OLD US
51
WILL BE
CLOSED

XX
MILES
AHEAD

DATE
TO
DATE

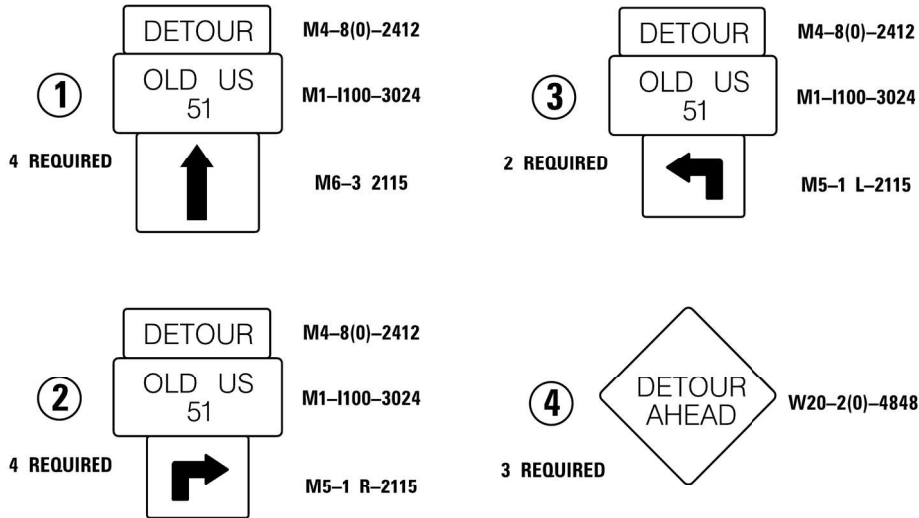
DURING CLOSURE

OLD US
51
CLOSED

XX
MILES
AHEAD

LOCAL
TRAFFIC
ONLY

SUGGESTED MESSAGE
(EXACT MESSAGE SHALL BE APPROVED BY THE ENGINEER)



NOTES:

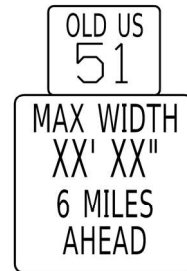
1. THE CONTRACTOR HAS THE OPTION OF USING METAL POSTS INSTEAD OF WOOD.
2. ALL SIGNS SHALL BE BLACK ON ORANGE. THE POSTS SHALL BE PLACED 12' FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS AND HARDWARE REQUIRED TO INSTALL THE DETOUR ROUTE SIGNING SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
4. SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724. THIS WORK WILL NOT BE PAID FOR. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. THE RELOCATING MAINTENANCE OR REPLACEMENT OF SIGNS SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
6. EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
7. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
8. THE DISTRICT 9 OPERATIONS ENGINEER SHALL BE CONTACTED 10 DAYS PRIOR TO ERECTION OF THE SIGNS.

MODEL: 001
FILE NAME: \\ukpr-fs1\apshare\0500\0595-IL DOT District 9\0595-0001-0016 US51 Culvert CobdenIL PH1 Union Co Design and Planning\CADD\CADD Sheets\0978A15-sh1-detour.dgn

USER NAME = ckohlrus	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/27/2025	DATE -	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	16
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

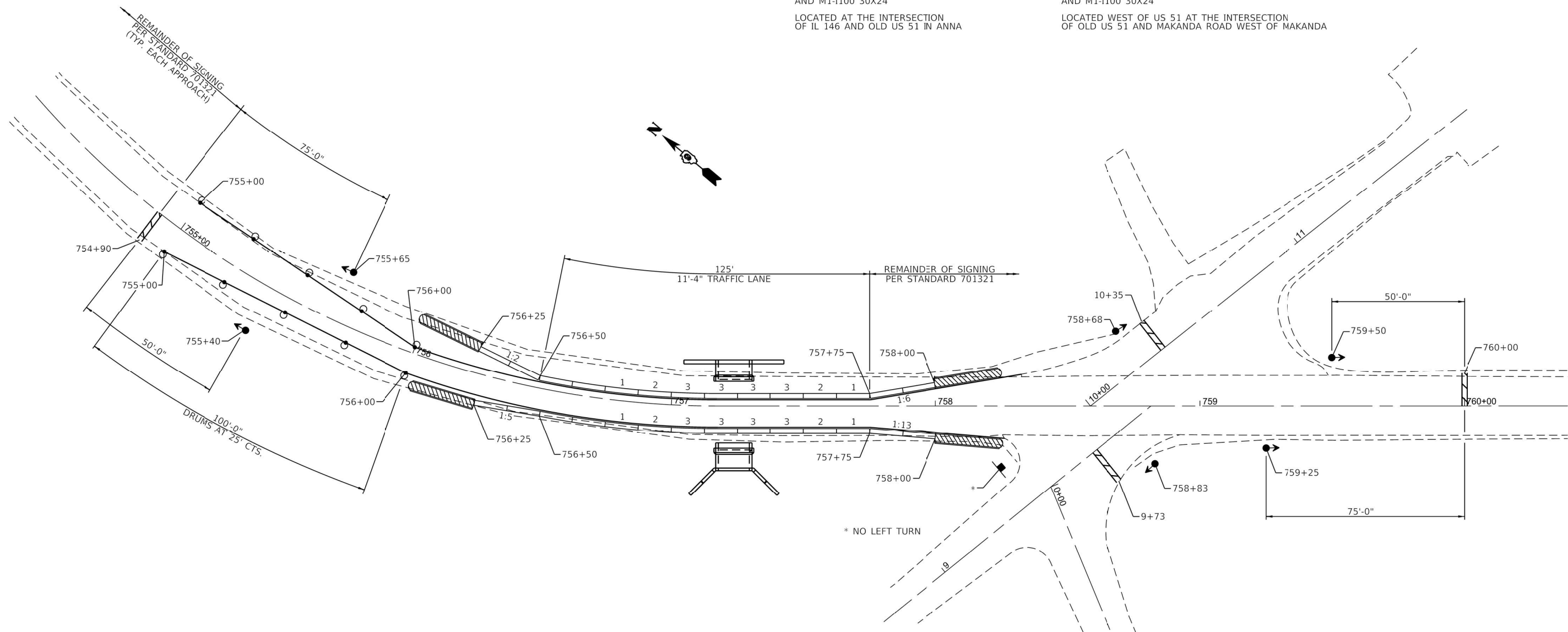
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN ACCORDING TO "TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. LOCATION OF TEMPORARY BRIDGE SIGNALS SHALL BE COORDINATED AND PLACED AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
6. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
7. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE NARROW IMPACT ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
8. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE 2 NEW CO-10 RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
9. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
10. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
11. THE COST OF THE TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE INCLUDED IN THE CCST OF STANDARD 701321.



OLD US
51
MAX WIDTH
XX' XX"
6.5 MILES
AHEAD

WIDTH RESTRICTION SIGN
W12-I103 48" X 48" WITH XX" XX"
LETTERS BLACK ON ORANGE
MAX WIDTH & 2 MILES AHEAD
BLACK ON WHITE WITH M3-1 30X15
AND M1-I100 30X24

LOCATED WEST OF US 51 AT THE INTERSECTION
OF OLD US 51 AND MAKANDA ROAD WEST OF MAKANDA



 TYPE III BARRICADE
 DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE) TEST LEVEL 3 (TYP.)
 TEMPORARY CONCRETE BARRIER
 TEMPORARY TRAFFIC SIGNAL

PLAN

SCALE: 1" = 20'

MODEL: Default
FILE NAME: \\vs\share\0500\0595-IL DOT District 9\0595-0001-0016 U551 Culvert Coodent\PH1 Union Co. Design and Planning\CADD Sheets\078a15-sht-staging.dgn



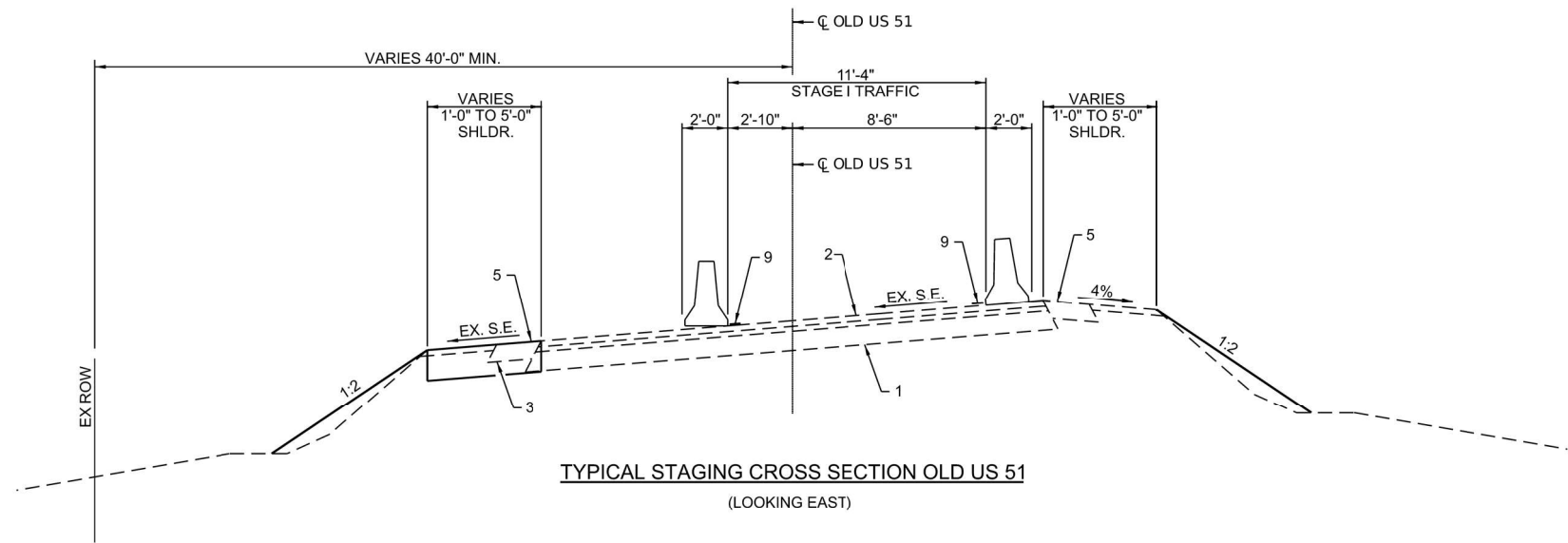
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	DRAWN -	REVISED -
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PLOT DATE = 2/19/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION PLAN

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	43	17
		CONTRACT NO. 78A15		
ILLINOIS		FED. AID PROJECT		



TYPICAL STAGING CROSS SECTION OLD US 51
(LOOKING EAST)

PAVEMENT LEGEND

- 1 - EX HMA PAVEMENT
- 2 - EX HMA OVERLAYS
- 3 - EX AGGREGATE SHOULDERS
- 4 - PR PCC PAVEMENT 10"
- 5 - PR PCC SHOULDERS 8"
- 6 - PR EARTH SHOULDER
- 7 - PR PAVEMENT MKG 4"
- 8 - PR GUARDRAIL
- 9 - PR TEMP PAVEMENT MKG 4
- 10 - PR CLASS A4 DITCH

MODEL: Default
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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/27/2025	DATE -	REVISED -

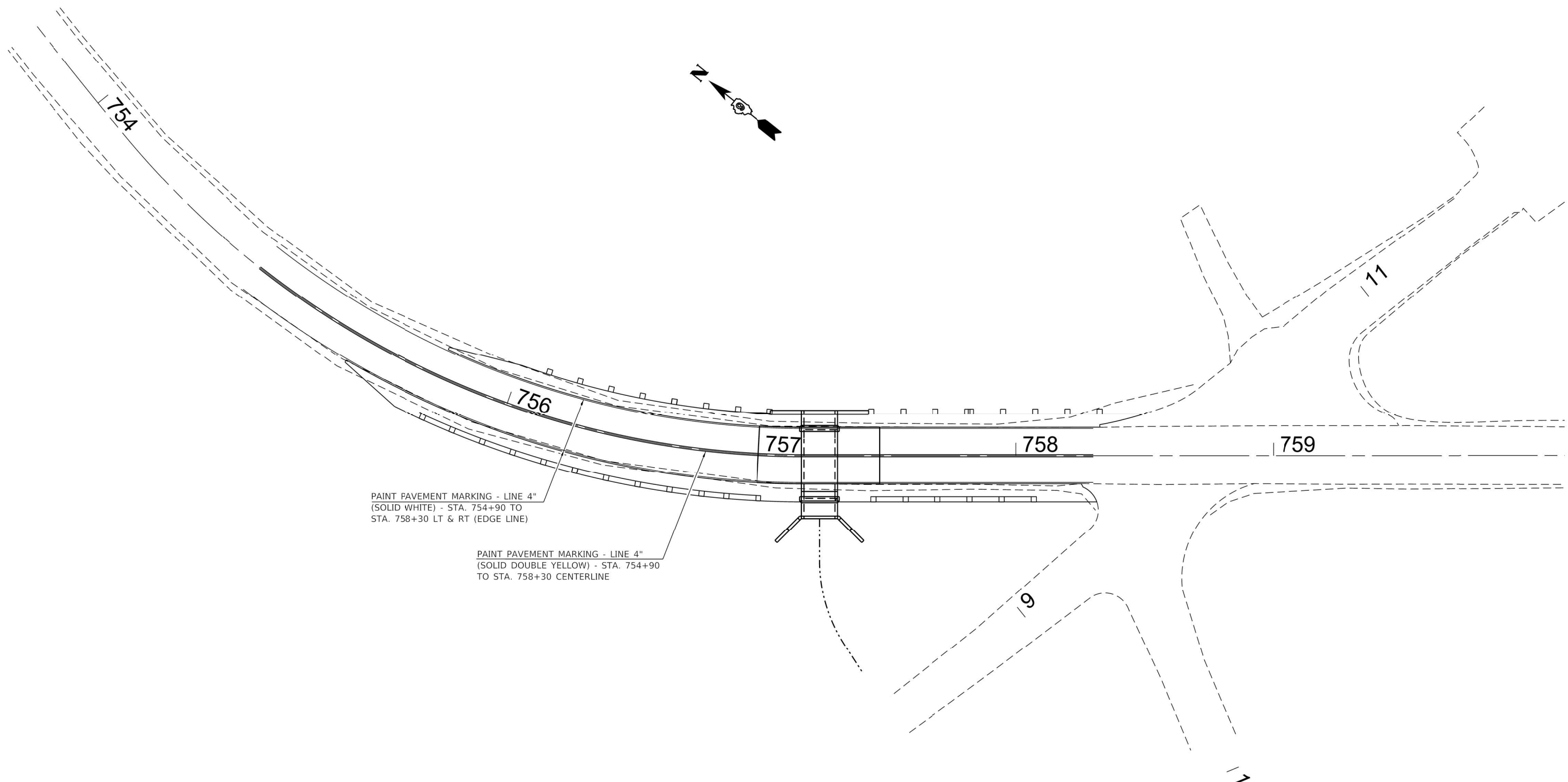
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL STAGING ROADWAY SECTIONS

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

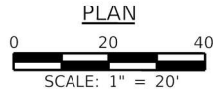
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	18
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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PAINT PAVEMENT MARKING - LINE 4"
(SOLID WHITE) - STA. 754+90 TO
STA. 758+30 LT & RT (EDGE LINE)

PAINT PAVEMENT MARKING - LINE 4"
(SOLID DOUBLE YELLOW) - STA. 754+90
TO STA. 758+30 CENTERLINE





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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/19/2025	DATE -	REVISED -

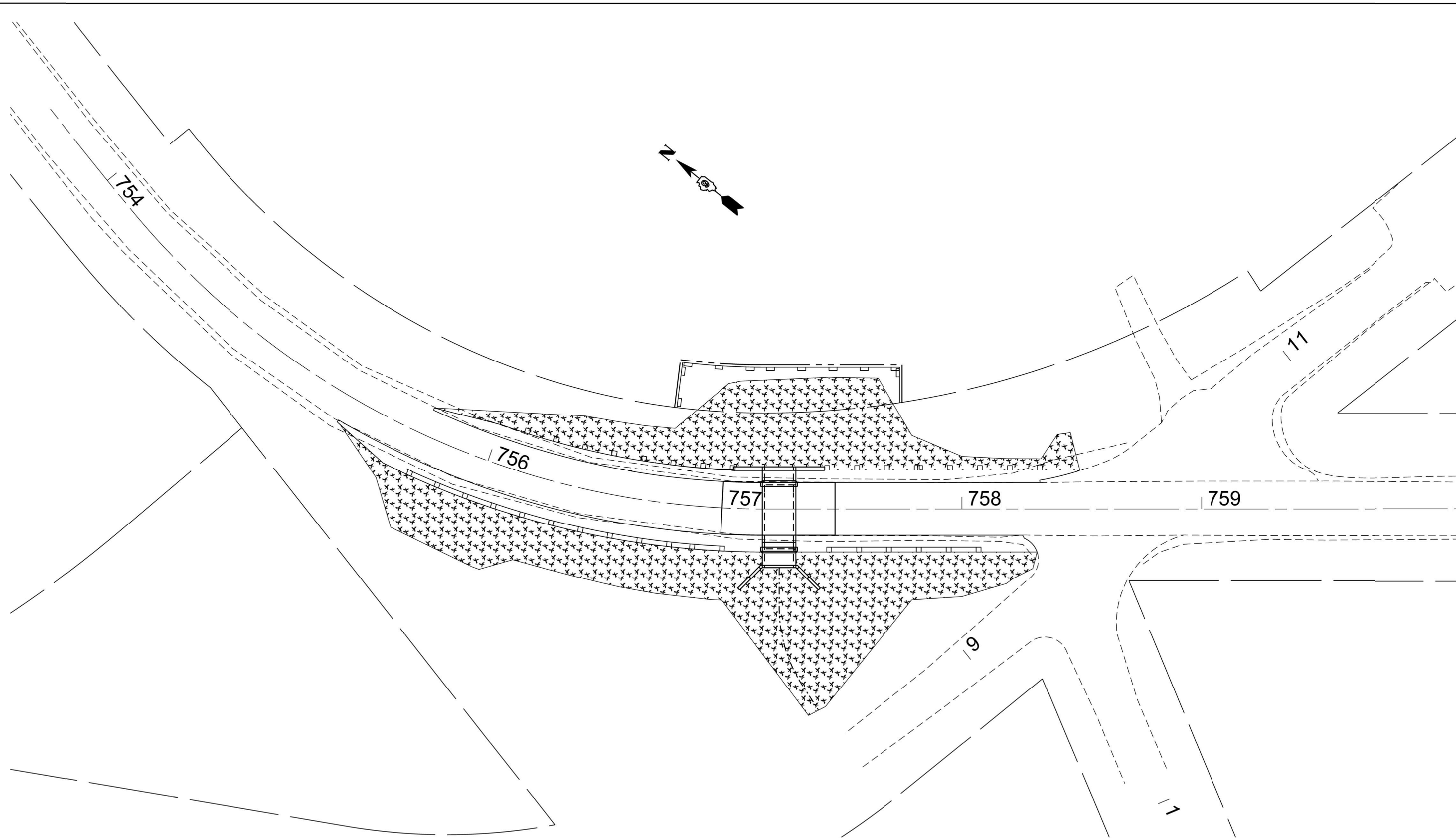
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	19
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: \\uspr-fs1\usprshare\0500\0595-IL DOT District 9\0595-0001-0016 US51 Culvert CaddentL PH1 Union Co Design and Planning\CADD\CADD Sheets\078A15-sh1-eros.dgn



- LEGEND**
- SEEDING, CLASS 2A & 7, TEMPORARY CONTROL SEEDING & MULCH
 - PERIMETER EROSION BARRIER

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USER NAME = ckohlrus	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/27/2025	DATE -	REVISED -

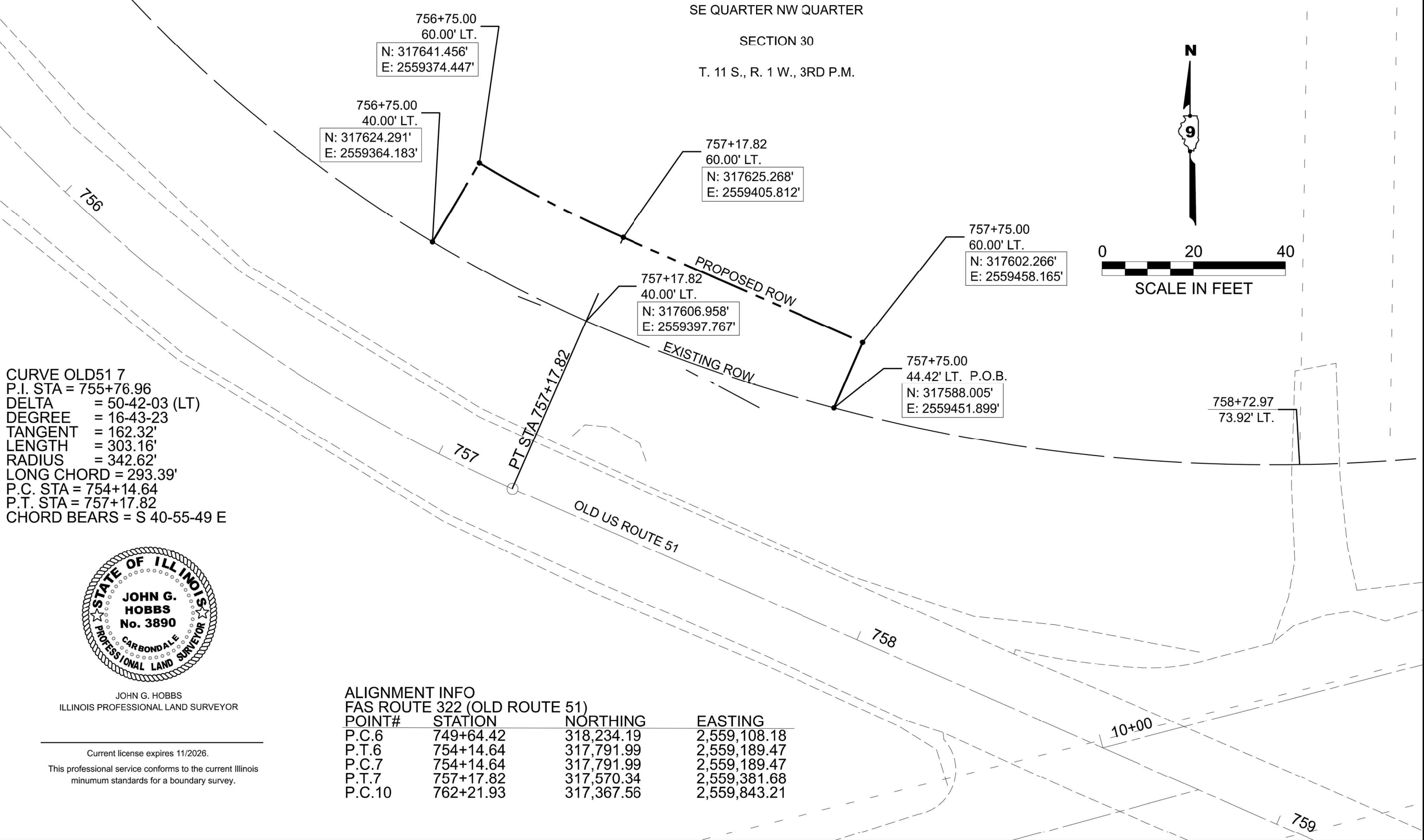
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	20
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

PARCEL #	TAX ID#	PURPOSE	ACREAGE
90224001	04-30-02-703	R.O.W.	0.041 ACRES±



MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT\101\Organization-Civil\DOT_Standards\Cell\DOT_Sheets.dgn

USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

ILLINOIS DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY PLAT		ROUTE OLD US 51	SECTION 12CR-1	COUNTY UNION	JOB# R-99-002-24
		SEC 30	T 11 S , R 1 W OF 3RD P.M.	DATE: 02/19/2025	DRAWN BY: JOHN G. HOBBS
		SCALE: 1" = 30'	SHEET NO. 21 OF 43 SHEETS	STA 756+00.00	TO STA 759+00.00 CONTRACT NO. 78A15

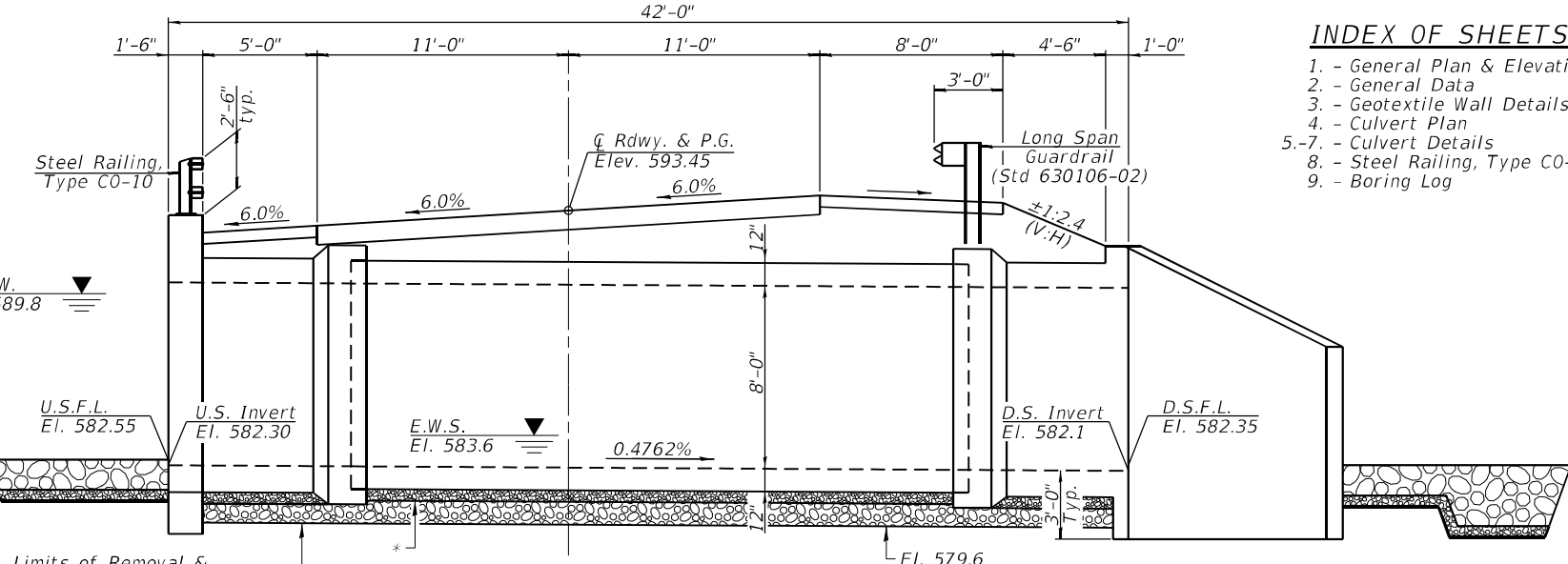
VEENSTRA & KIMM INC.
Springfield, IL. Phone: (217)544-8033
IL. Design Firm No. 184-001939

USER NAME = ckohlrus	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$Scales\$	CHECKED -	REVISED -
PLOT DATE = 2/20/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	21
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



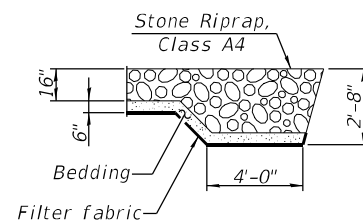
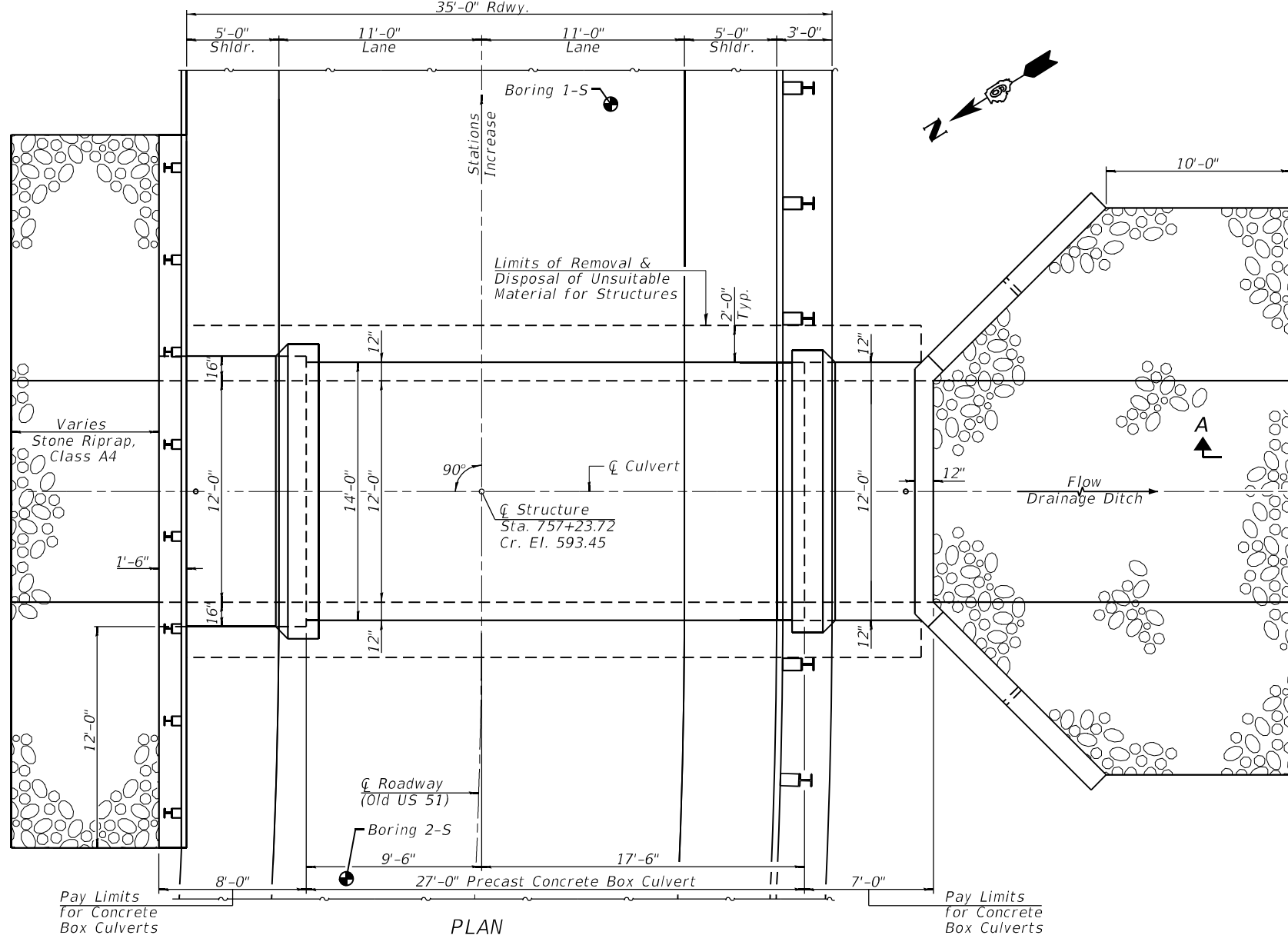
1. - General Plan & Elevation
2. - General Data
3. - Geotextile Wall Details
4. - Culvert Plan
- 5-7. - Culvert Details
8. - Steel Railing, Type C0-10
9. - Boring Log

Existing Structure: Structure number 091-7057, built in 1920 under S.B.I Route 2, Section 12 at Station 757+23.72 as a single barrel 12'-0" x 8'-0" cast-in-place concrete box culvert. The culvert length is 32'-0" and is not skewed. The existing structure is located at the end of a horizontal curve alignment and on a ±0.1% vertical alignment. The structure will be replaced under a short-term closure and stage construction.

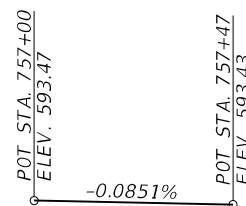
*6" Porous Granular Material under Precast Concrete Box Culvert according to Article 540.06 of the Standard Specifications.
6" Porous Granular Material under Concrete Box Culverts included in the cost for Rock Fill - Foundation.

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

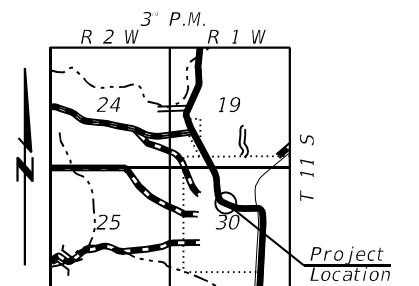
$PI \text{ Sta.} = 755+76.96$
 $\Delta = 50^{\circ}42'03'' \text{ (Lt.)}$
 $D = 16^{\circ}43'23''$
 $R = 342.62'$
 $T = 162.32'$
 $L = 303.18'$
 $E = 36.51'$
 $PC \text{ Sta.} = 754+14.64$
 $PT \text{ Sta.} = 757+17.82$



SECTION A-A
(Downstream End Only)



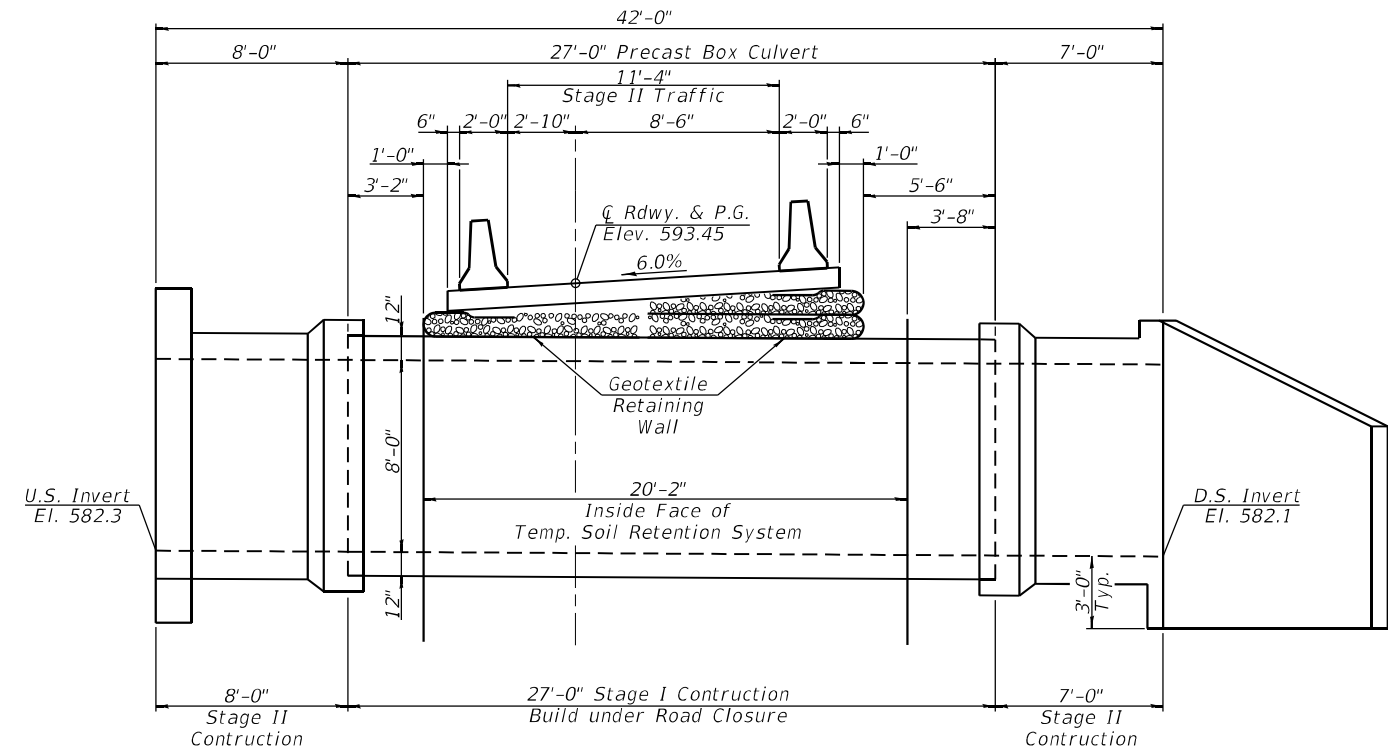
PROFILE GRADE
(Along Old U.S. 51)



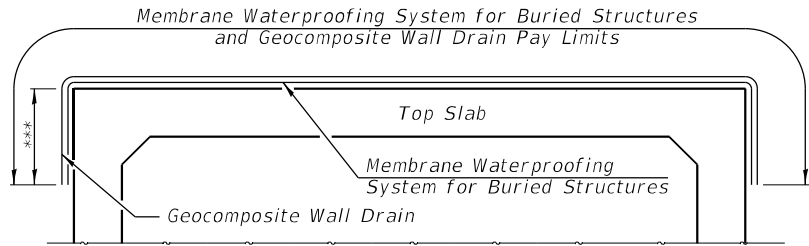
LOCATION MAP

GENERAL PLAN & ELEVATION
OLD U.S. 51 OVER DITCH
F.A.S. RTE 1911 - SECTION 12CR-1
UNION COUNTY
STATION 757+23.72
STRUCTURE NO. 091-7093

MODEL: 002
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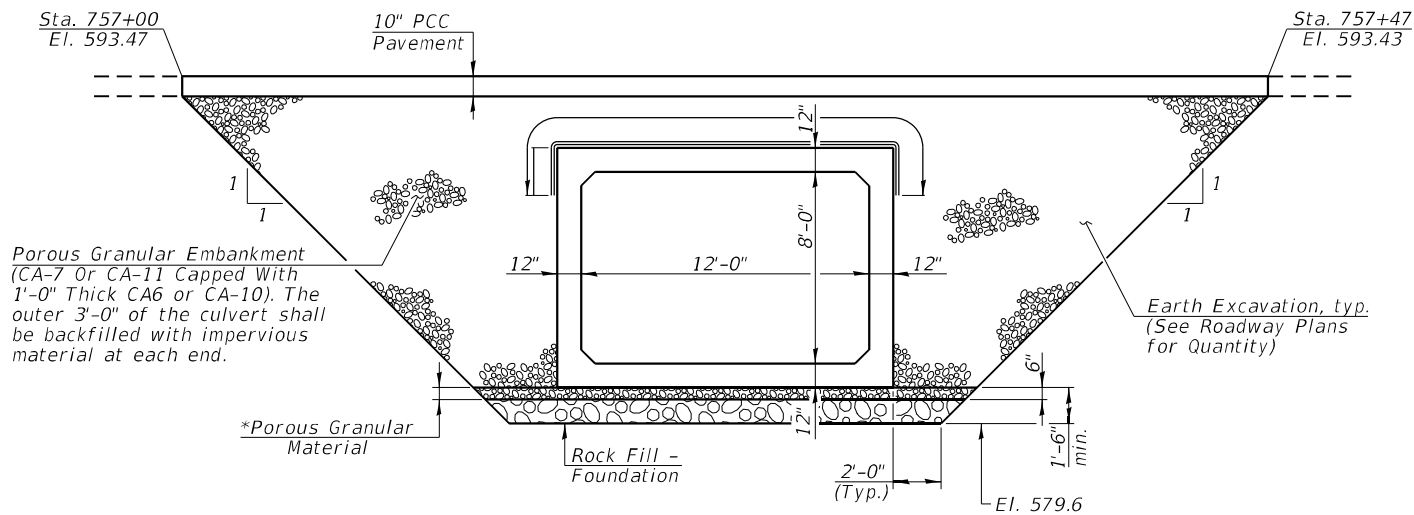


STAGE CONSTRUCTION
(All dimensions are at Rt. Δ's to C Roadway)



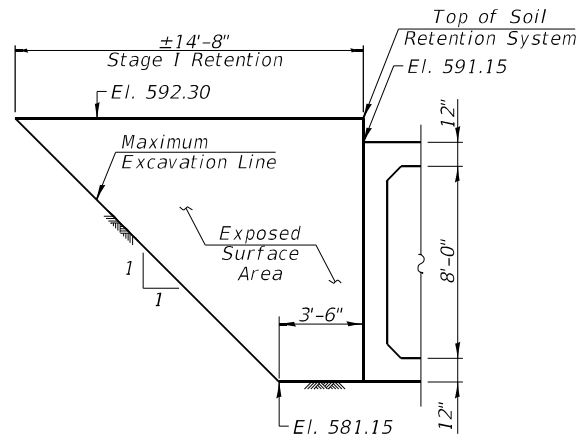
MEMBRANE WATERPROOFING SYSTEM DETAIL

*** 1'-0" for precast concrete box culvert.
Top slab thickness plus 1'-0" for concrete box culverts.



SECTION THRU CULVERT
(All dimensions are at Rt. Δ's to C Roadway)

*6" Porous Granular Material under Precast Concrete Box Culvert according to Article 540.06 of the Standard Specifications.
6" Porous Granular Material under Concrete Box Culverts included in the cost for Rock Fill - Foundation.



TEMPORARY SOIL RETENTION SYSTEM

(All dimensions are at Rt. Δ's to C Roadway)
(Typical at all four corners of precast culvert)

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	194
Stone Riprap, Class A4	Sq. Yd.	100
Filter Fabric	Sq. Yd.	100
Removal of Existing Structures	Each	1
Removal & Disposal of Unsuitable Material for Structures	Cu. Yd.	44
Reinforcement Bars, Epoxy Coated	Pound	12,660
Steel Railing, Type C0-10	Foot	39
Temporary Soil Retention System	Sq. Ft.	405
Geotextile Retaining Wall	Sq. Ft.	45
Concrete Box Culverts	Cu. Yd.	70.0
Precast Concrete Box Culverts 12' X 8'	Foot	27
Geocomposite Wall Drain	Sq. Yd.	67
Membrane Waterproofing System for Buried Structures	Sq. Yd.	67
Rock Fill - Foundation	Ton	67

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

Reinforcement bars designated (E) shall be epoxy coated.

Barrels shall be poured monolithically with the wingwalls.

The design fill height for the precast box varies from 1.61' to 2.96' within the limits of the roadway.

The precast box culvert sections shall conform to the requirements of ASTM C 1577.

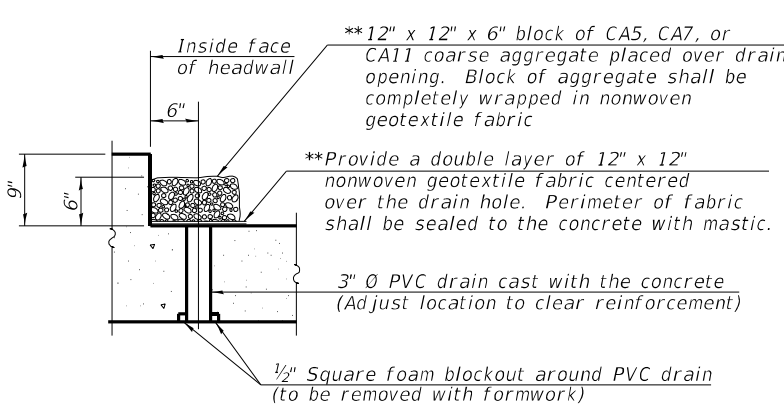
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

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 Waterproofing Membrane System for Buried Structures.

WATERWAY INFORMATION

Drainage Area = 0.2 Sq. Mi.			Exist. Low Grade Elev. 593.25 at Sta. 755+56.38 Prop. Low Grade Elev. 593.25 at Sta. 755+56.38						
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	168	38	38	587.3	0.24	0.24	587.5	587.5
Base	25								
Design	50	308	59	59	589.8	0.32	0.32	590.1	590.1
Max. Calc.	100	382	64	64	580.4	0.42	0.42	590.8	590.8

10 Yr. Outlet Velocity through Exist. Structure = 4.4 ft/s
10 Yr. Outlet Velocity through Prop. Structure = 4.4 ft/s



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

**Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



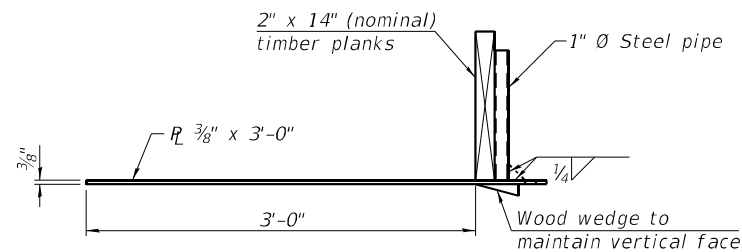
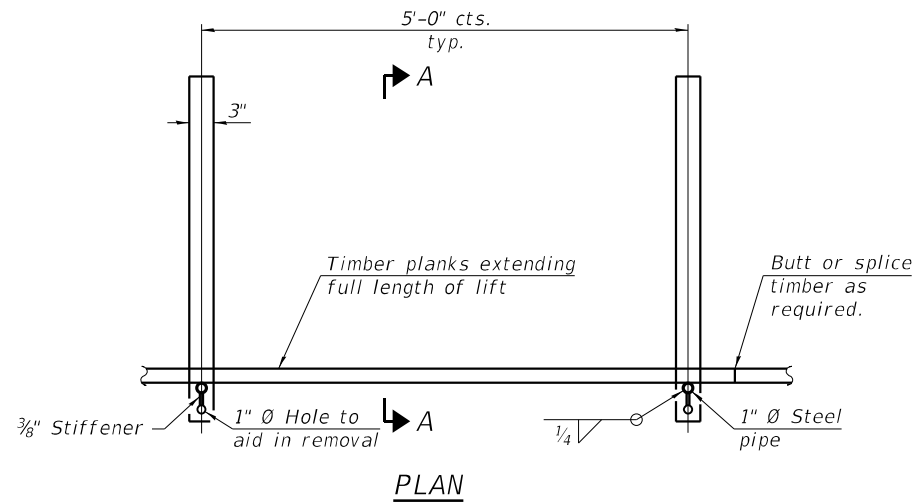
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	CHECKED - DHC	REVISED -
PLOT SCALE =	DRAWN - KES	REVISED -
PLOT DATE = FEBRUARY 19, 2025	CHECKED - DHC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 091 - 7093**

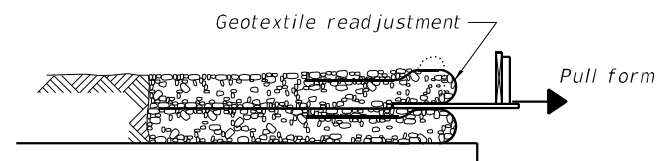
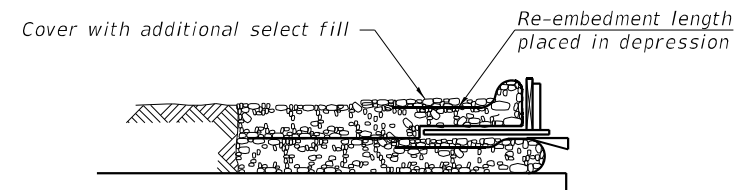
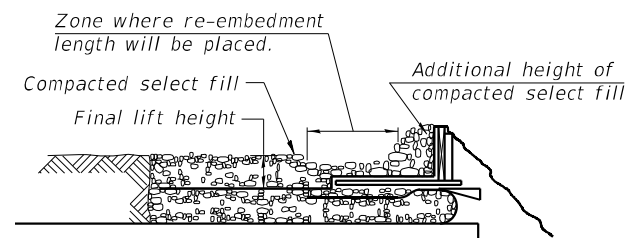
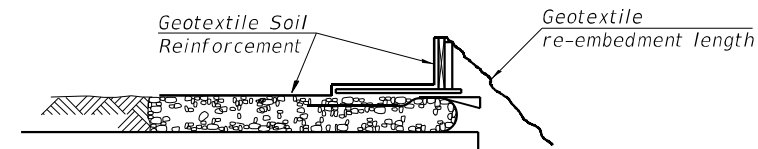
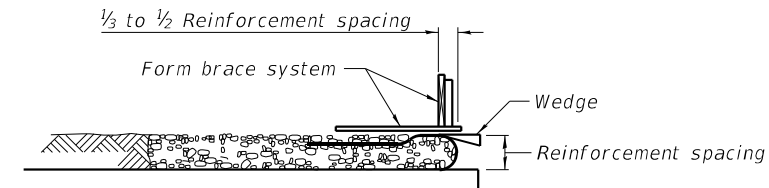
SHEET 2 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	23
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

GEOTEXTILE FORM BRACE DETAIL



GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 21 lb./in. as determined by the procedure described in Section 522 of the Standard Specifications. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

MODEL: 003
FILE NAME: \\kspr-gs1\spshare\0500\0595-IL_DOT_District_9\0595-001-0016_US51_Culvert_CobdenL_Ph1_Union_Co_Design_and_Planning\CADD\CADD Sheets\0976a15-shl-structure.dgn
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VEENSTRA & KIMM INC.
Springfield, IL Phone: (217)544-8033
IL Design Firm No. 184-001939

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GEOTEXTILE WALL DETAILS
STRUCTURE NO. 091 - 7093**

SHEET 3 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	24
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

1. Precast Concrete Box Culverts 12'x8' shall conform to the requirements of Article 540.06 of the Standard Specifications, the applicable requirements of AASHTO M 259 and ASTM C1577 except as modified herein.

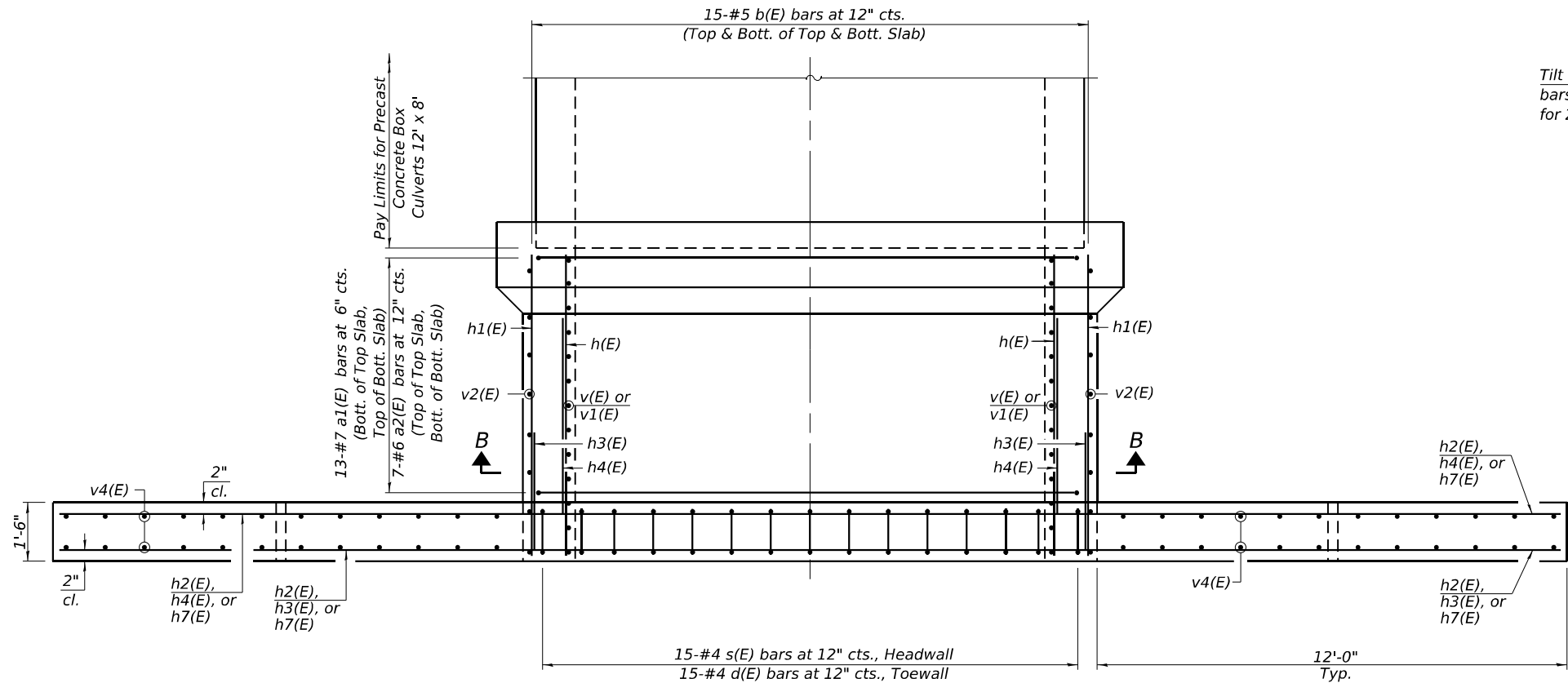
Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

2. Cover from face of precast concrete reinforcement bars shall be 2" for the top of the top slab, and 1" for all other surfaces.

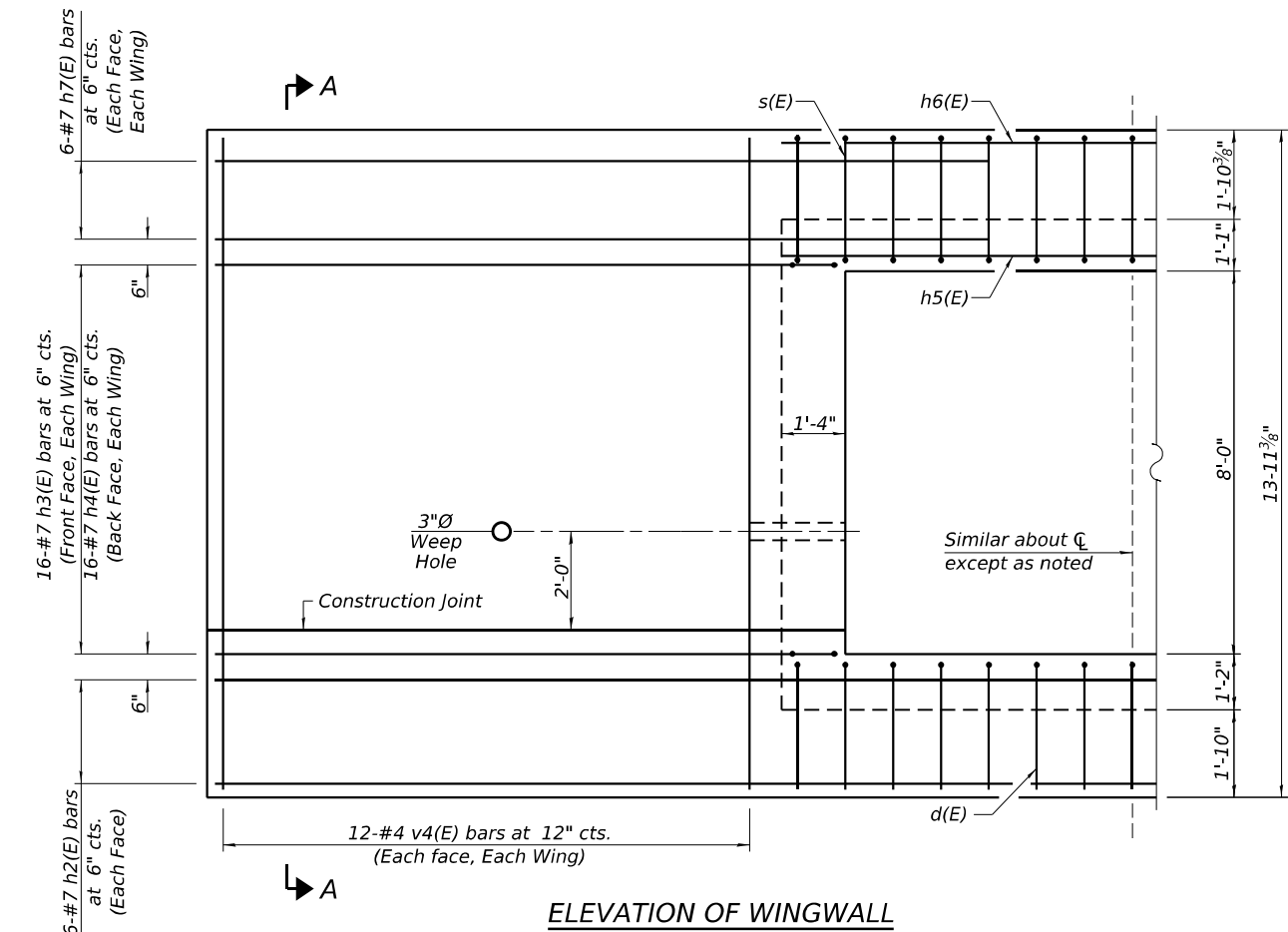


Precast Concrete Box Culverts 12' x 8'	Foot	27

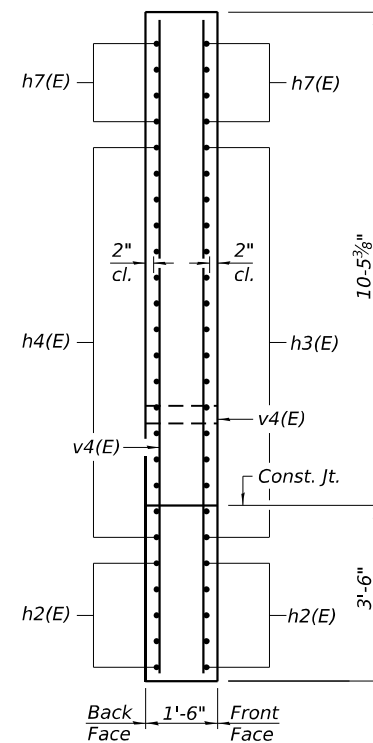
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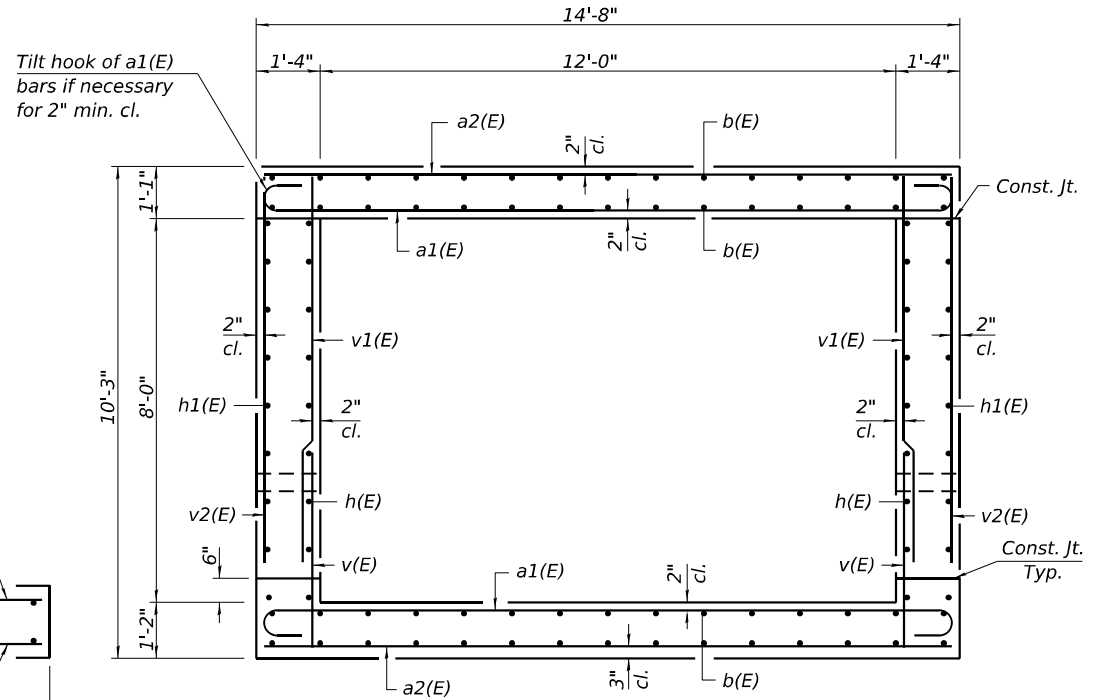
PLAN - NORTH END



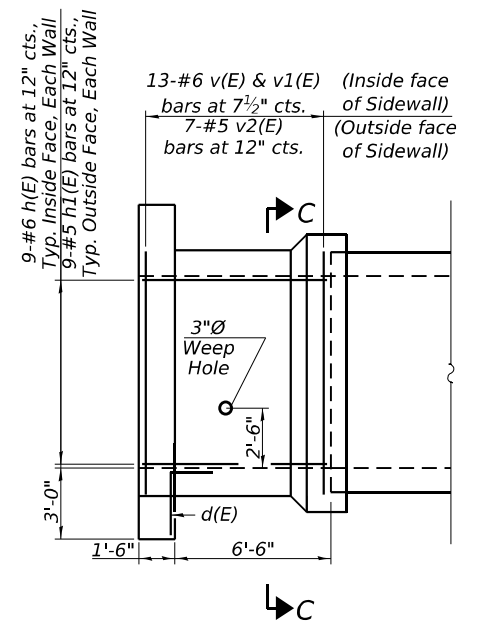
ELEVATION OF WINGWALL



SECTION A - A



SECTION B - B



HALF LONGITUDINAL
SECTION - ELEVATION

MINIMUM BAR LAP
#5 bar = 2'-5"
#6 bar = 2'-11"



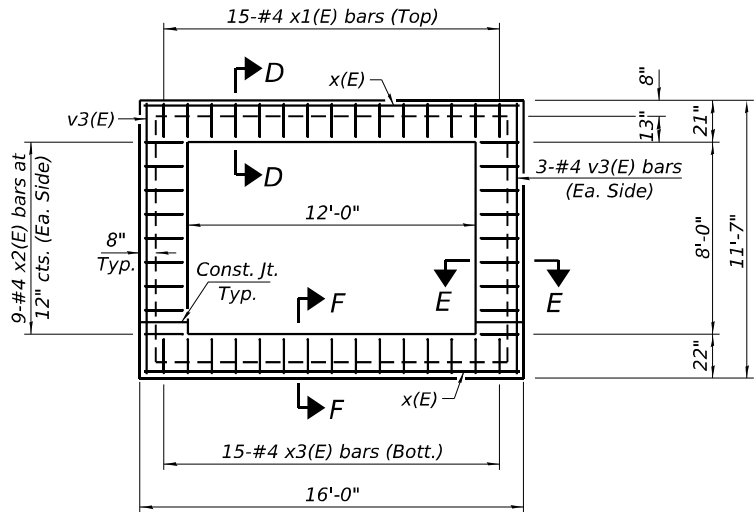
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

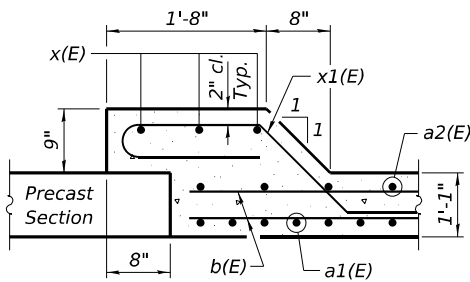
CULVERT DETAILS
STRUCTURE NO. 091 - 7093

SHEET 5 OF 9 SHEETS

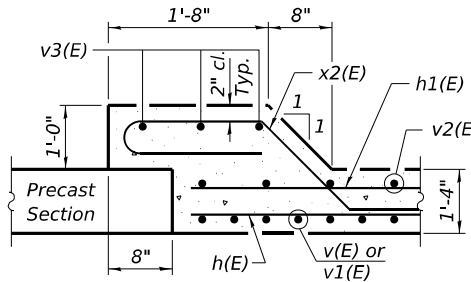
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	26
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



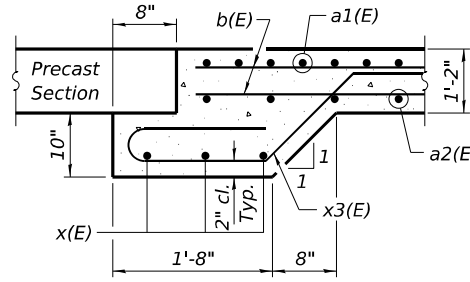
SECTION C - C



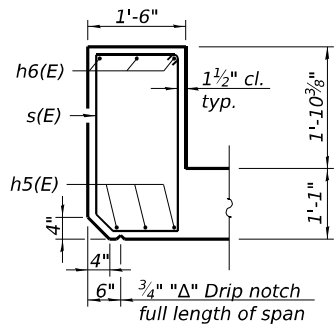
SECTION D - D



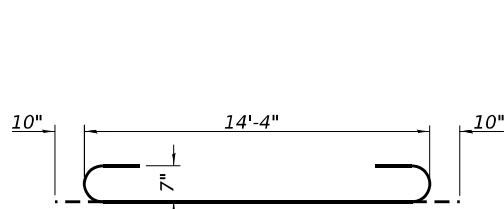
SECTION E - E



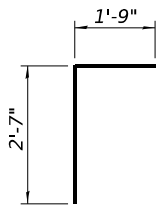
SECTION F - F



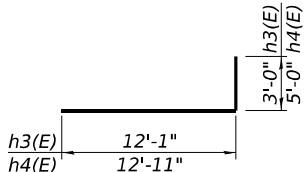
SECTION THRU HEADWALL



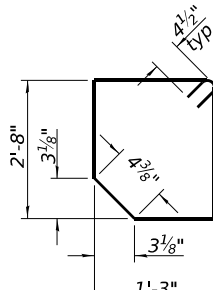
BAR a1(E)



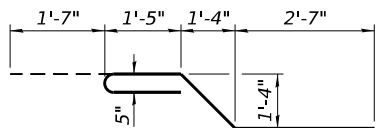
BAR d(E)



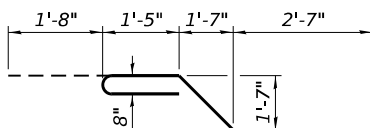
BAR h3(E) & h4(E)



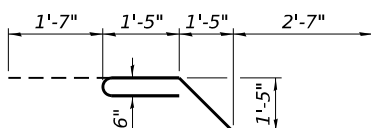
BAR s(E)



BAR x1(E)



BAR x2(E)



BAR x3(E)

MINIMUM BAR LAP

#5 bar = 2'-5"
#6 bar = 2'-11"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	26	#7	16'-0"	
a2(E)	14	#6	14'-4"	
b(E)	60	#5	7'-8"	
d(E)	15	#4	4'-4"	
h(E)	18	#6	7'-8"	
h1(E)	18	#5	7'-8"	
h2(E)	12	#7	38'-4"	
h3(E)	32	#7	15'-1"	
h4(E)	32	#7	17'-11"	
h5(E)	3	#7	14'-8"	
h6(E)	3	#6	14'-8"	
h7(E)	24	#7	16'-4"	
s(E)	15	#4	8'-6"	
v(E)	26	#6	4'-6"	
v1(E)	26	#6	8'-3"	
v2(E)	14	#5	8'-3"	
v3(E)	6	#4	11'-3"	
v4(E)	48	#4	13'-7"	
x(E)	6	#4	15'-8"	
x1(E)	15	#4	7'-6"	
x2(E)	18	#4	7'-11"	
x3(E)	15	#4	7'-7"	
Concrete Box Culverts			Cu. Yd.	41.8
Reinforcement Bars, Epoxy Coated			Pound	7,580

MODEL: 006
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IL Design Firm No. 184-001939

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 091 - 7093

SHEET 6 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	27
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

MODEL: 007
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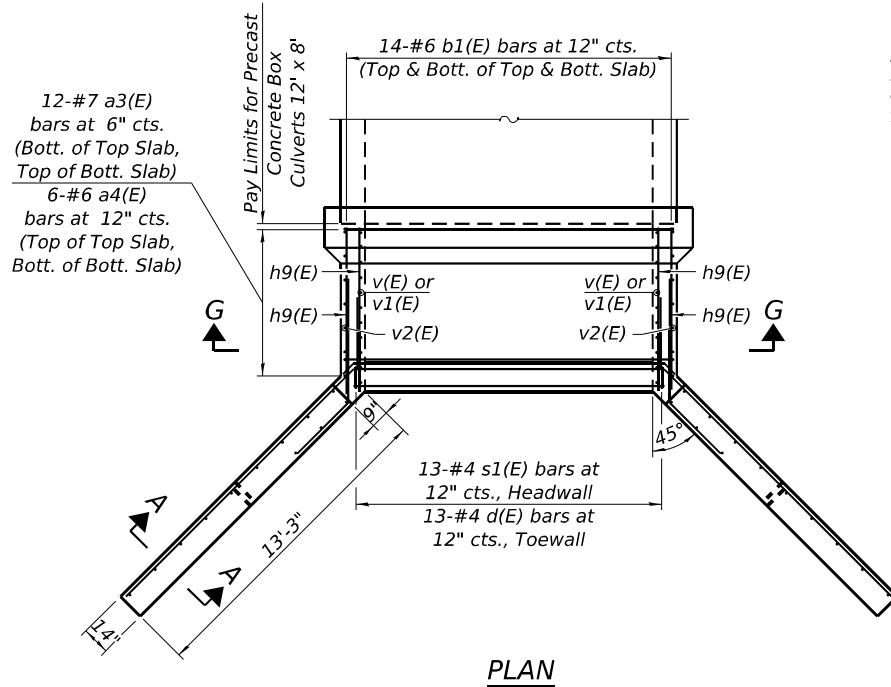
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

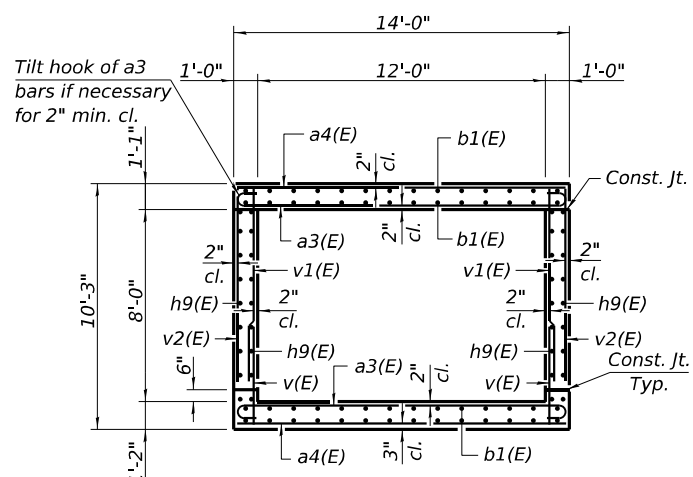
CULVERT DETAILS
STRUCTURE NO. 091 - 7093

SHEET 7 OF 9 SHEETS

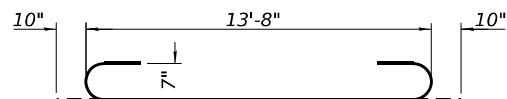
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	28
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				



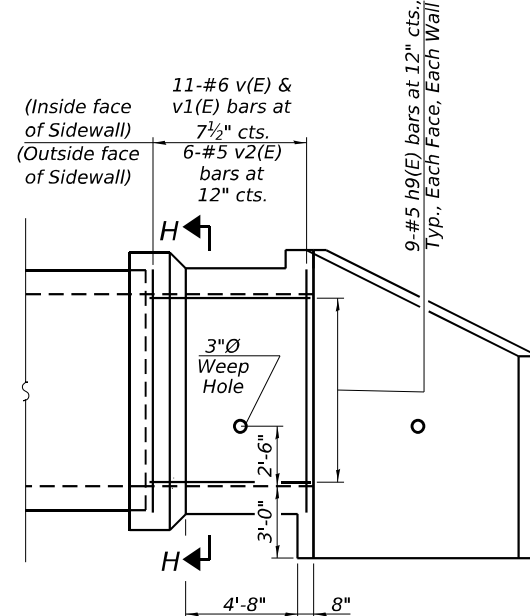
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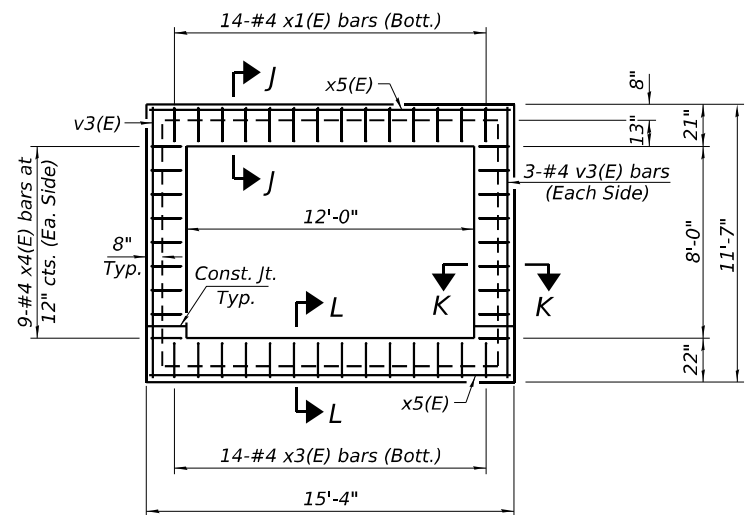
SECTION G - G



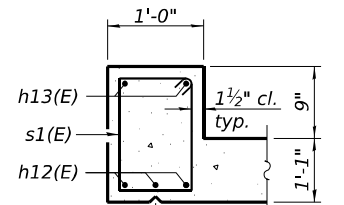
BAR a3(E)



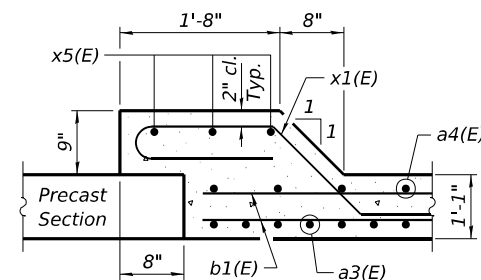
HALF LONGITUDINAL
SECTION - ELEVATION



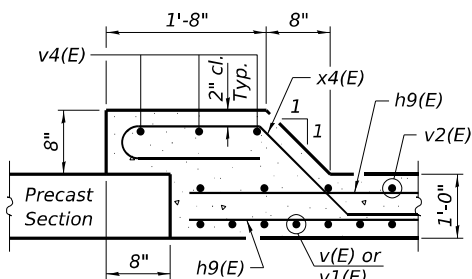
SECTION H - H



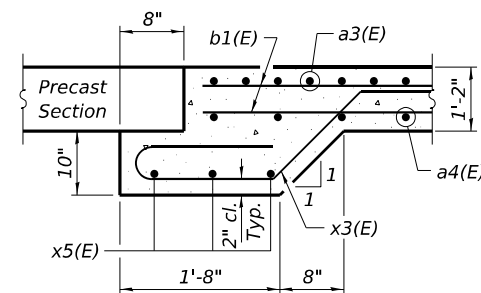
DOWNSTREAM
SECTION THRU HEADWALL



SECTION J - J



SECTION K - K

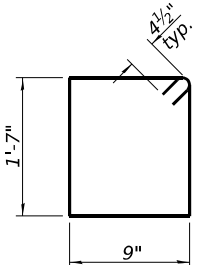


SECTION L - L

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3(E)	24	#7	15'-4"	
a4(E)	12	#6	13'-8"	
b1(E)	56	#6	6'-8"	
d(E)	13	#4	4'-4"	
h9(E)	36	#6	6'-8"	
h10(E)	34	#7	16'-10"	
h11(E)	44	#7	8'-0"	
h12(E)	3	#7	13'-8"	
h13(E)	2	#6	13'-2"	
s1(E)	13	#4	5'-5"	
v(E)	22	#6	4'-6"	
v1(E)	22	#6	8'-3"	
v2(E)	12	#5	8'-3"	
v3(E)	6	#4	11'-3"	
v5(E)	24	#4	12'-6"	
x1(E)	14	#4	7'-6"	
x3(E)	14	#4	7'-7"	
x4(E)	18	#4	7'-4"	
x5(E)	6	#4	15'-0"	
Concrete Box Culverts			Cu. Yd.	28.2
Reinforcement Bars, Epoxy Coated			Pound	5,080

BARS h10 & h11



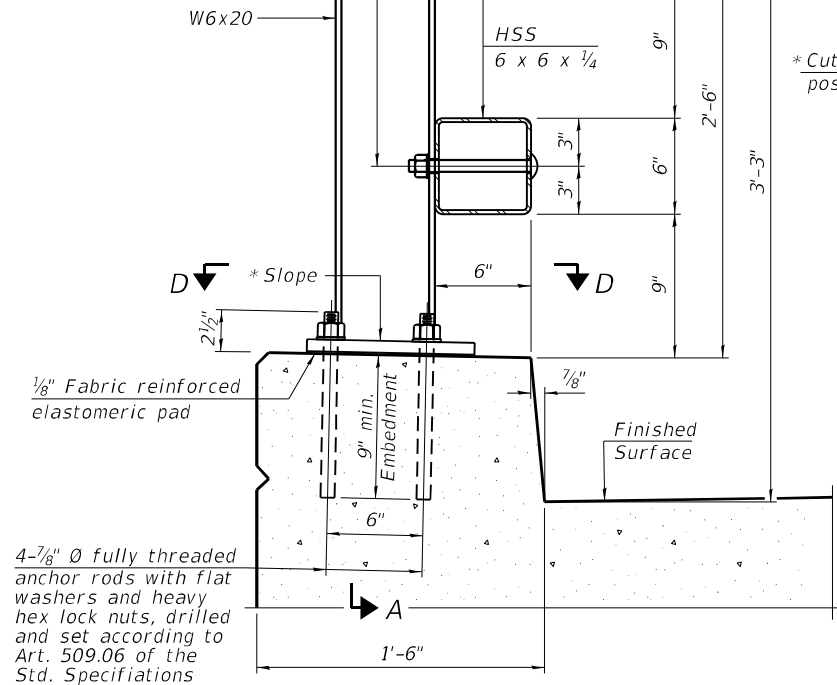
BAR s1(E)

MINIMUM BAR LAP
#5 bar = 2'-5"
#6 bar = 2'-11"

ELEVATION OF WINGWALL

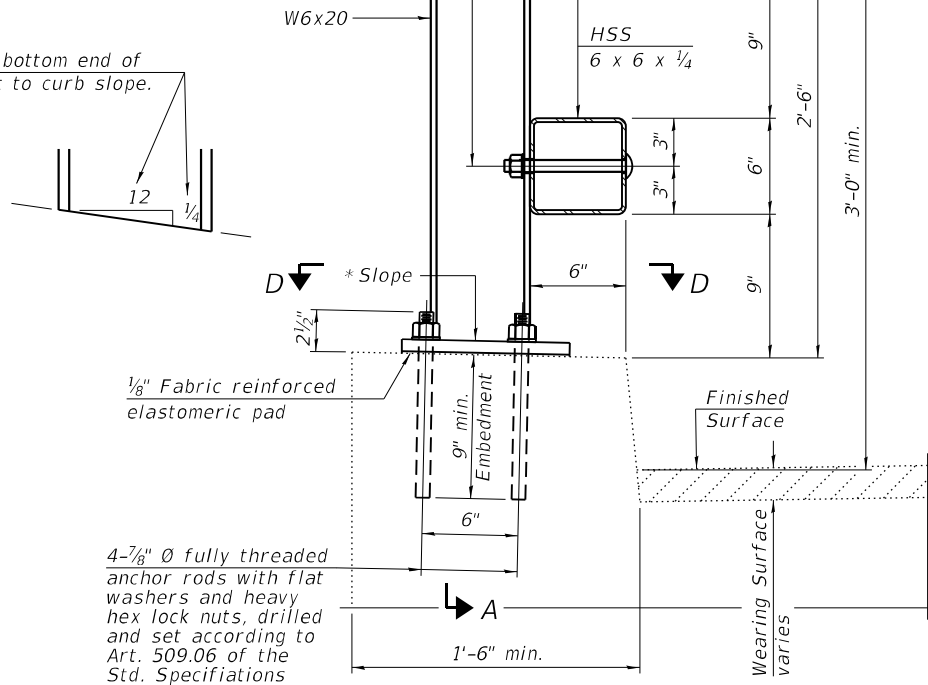
SECTION A - A

4 - 3/4" Ø x 7 1/2" Round head bolts with heavy hex locknuts and flat washers. Field drill 7/8" Ø holes in HSS tubing using holes in post as template.

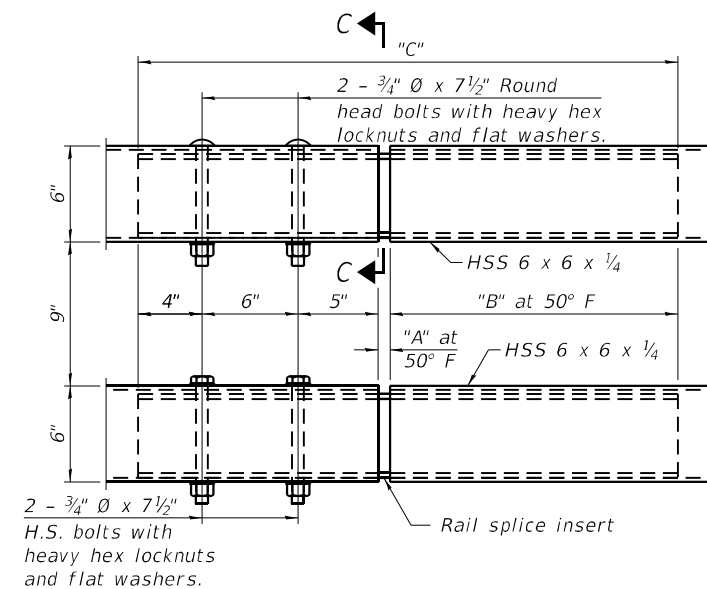


SECTION AT RAIL POST
(New construction)

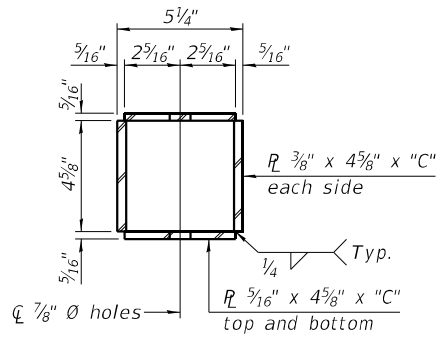
4 - 3/4" Ø x 7 1/2" Round head bolts with heavy hex locknuts and flat washers. Field drill 7/8" Ø holes in HSS tubing using holes in post as template.



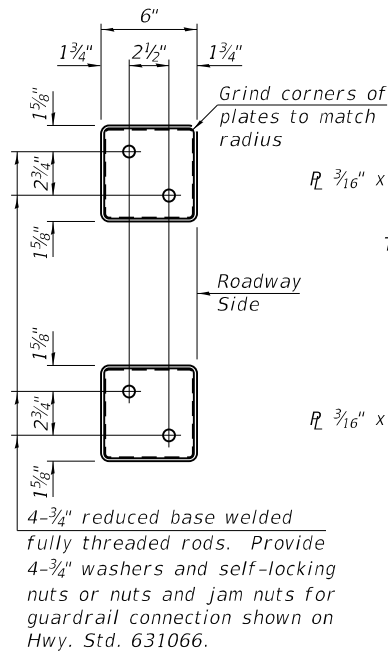
SECTION AT RAIL POST
(Retrofit construction)



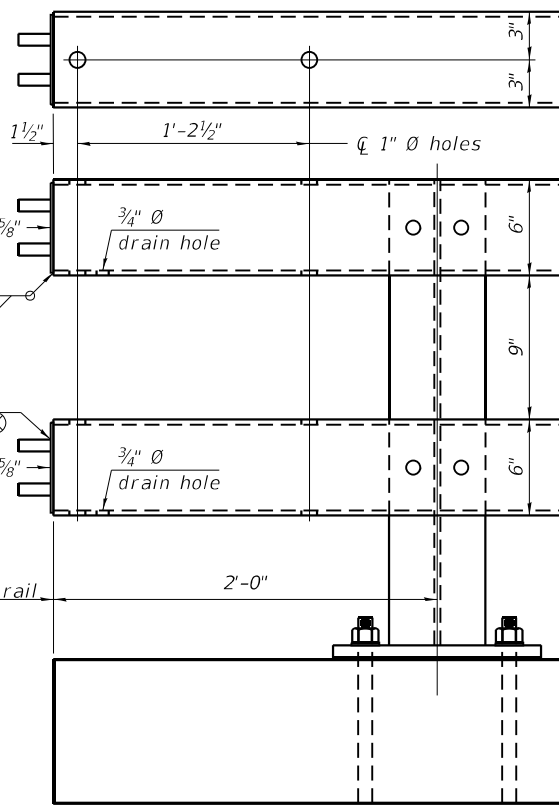
TOP AND BOTTOM RAIL
SPLICE ELEVATION



SECTION C-C



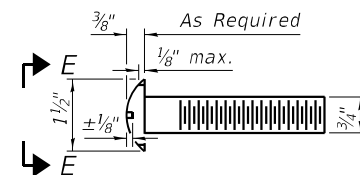
VIEW B-B



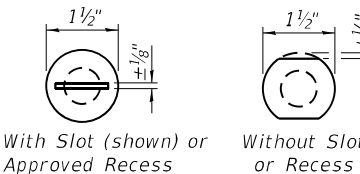
END OF RAIL DETAILS

Notes:

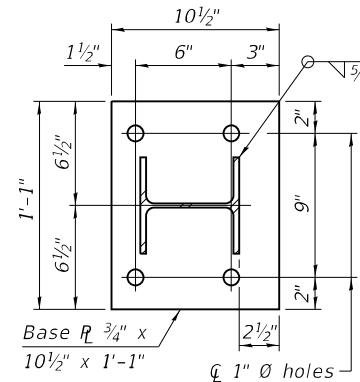
All HSS tubing shall be ASTM A500 grade C.
All plates shall be AASHTO M270 grade 50.
All heavy hex nuts shall be according to ASTM A563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.
Posts shall not be located closer than 2'-6" to a bridge expansion joint.
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
All round head bolts shall be ASTM A449.
The centerline of rail splices shall be placed between 1'-8" to 2'-6" from the centerline of the posts. The free end of the splice tube shall be oriented away from the closest post.



ROUND HEAD BOLT DETAIL



VIEW E-E



SECTION D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type CO-10	Foot	39

RAILING CRITERIA

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	1/2"	1'-6"	2'-9 1/2"
Over Strip Seal Jt.	≤4"	2 1/2"	1'-8"	3'-1 1/2"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-10 3/4"	3'-7 1/4"
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/2"	4'-0 3/4"

T = ; total movement along centerline of roadway at expansion joint.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE CO-10
STRUCTURE NO. 091 - 7093

SHEET 8 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	29
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

Page 1 of 1

Date 10/10/24

ROUTE Old US 51 DESCRIPTION 091-7057 Box Culvert LOGGED BY L. Estel

SECTION 12CR-1 **LOCATION** Intersection of Oak (Old US 51) and Locust St., SEC. 30, TWP. 11S, RNG. 1W, PM

COUNTY	Union	DRILLING METHOD	HSA (8" O.D., 3.25" I.D.)	HAMMER TYPE	Auto SPT 140 lbs
---------------	-------	------------------------	---------------------------	--------------------	------------------

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 1 of 1

Date 10/10/24

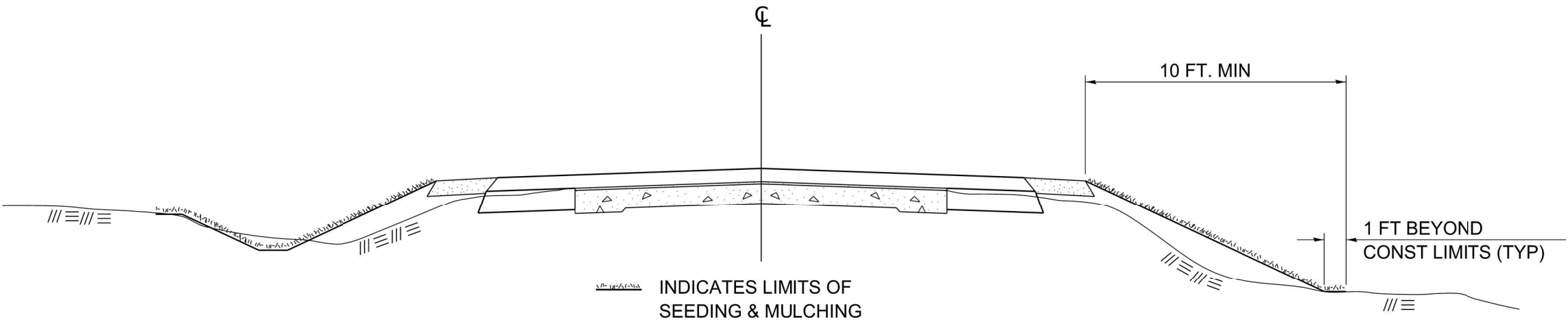
ROUTE Old US 51 DESCRIPTION 091-7057 Box Culvert LOGGED BY L. Estel

SECTION 12CR-1 **LOCATION** Intersection of Oak (Old US 51) and Locust St., SEC. 30, TWP. 11S, RNG. 1W, PM

COUNTY Union **DRILLING METHOD** HSA (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS.

LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

STD. 9-19

DRAWN	02-15-89
REVISED	03-27-08
REVISED	10-21-21
REVISED	05-27-22

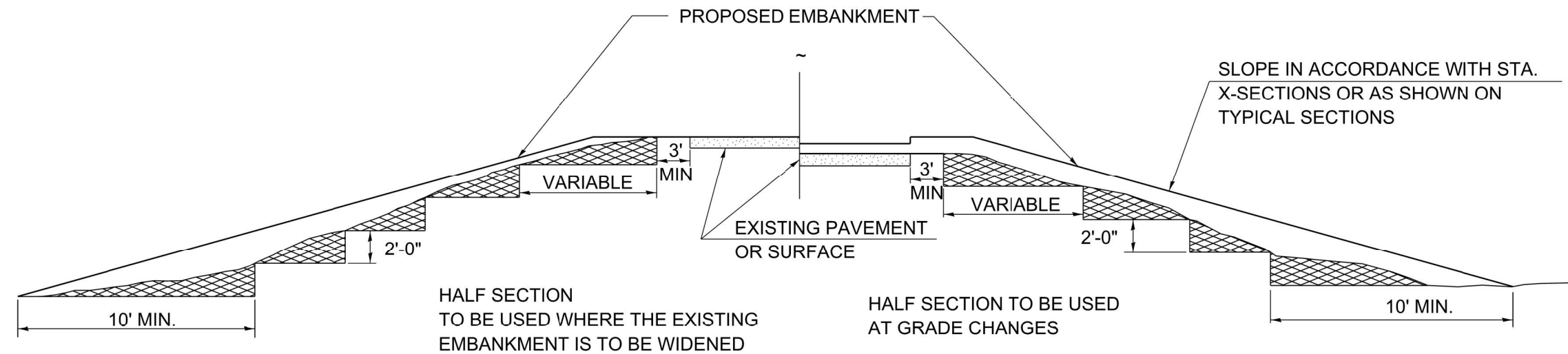
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	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/19/2025	DATE -	REVISED -

SEEDING AND MULCHING			
SCALE: VARIES	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	31
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



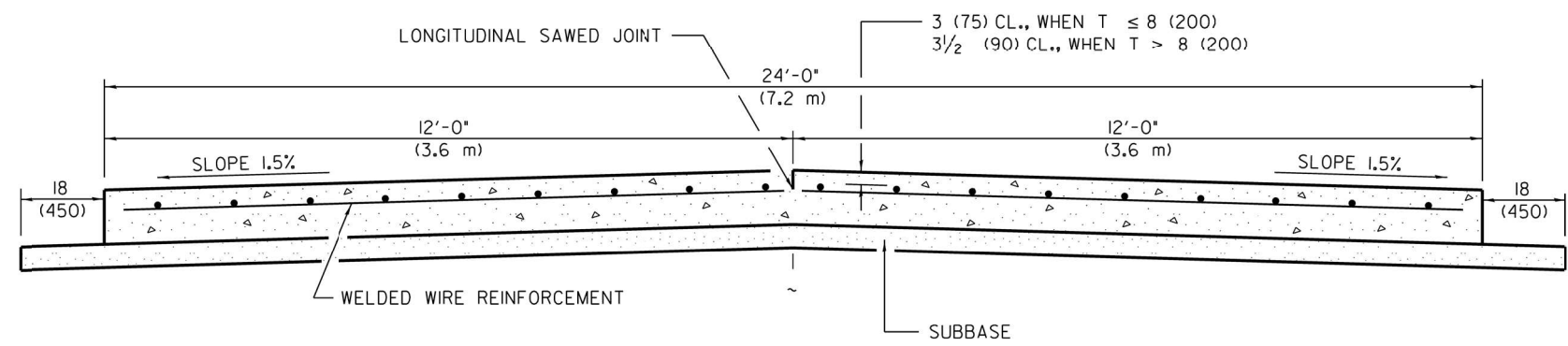
STEPS SHALL BE CUT IN THE EXISTING SLOPE IN ACCORDANCE WITH ART. 205.03 EXCEPT THAT THE REQUIREMENT THAT STEPS SHALL BE CUT INTO THE EXISTING SLOPE BEFORE THE CONTRUCTION OF THE EXISTING EMBANKMENT IS STARTED SHALL NOT APPLY. MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

STD. 9-25

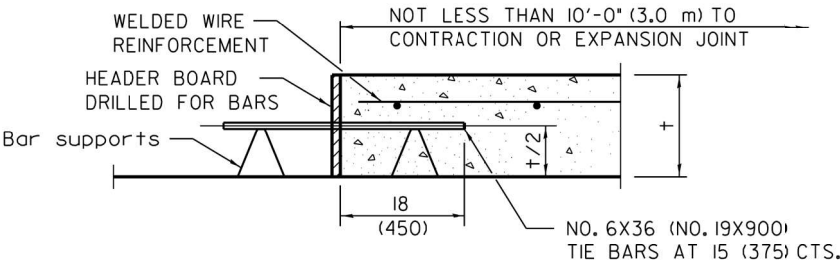
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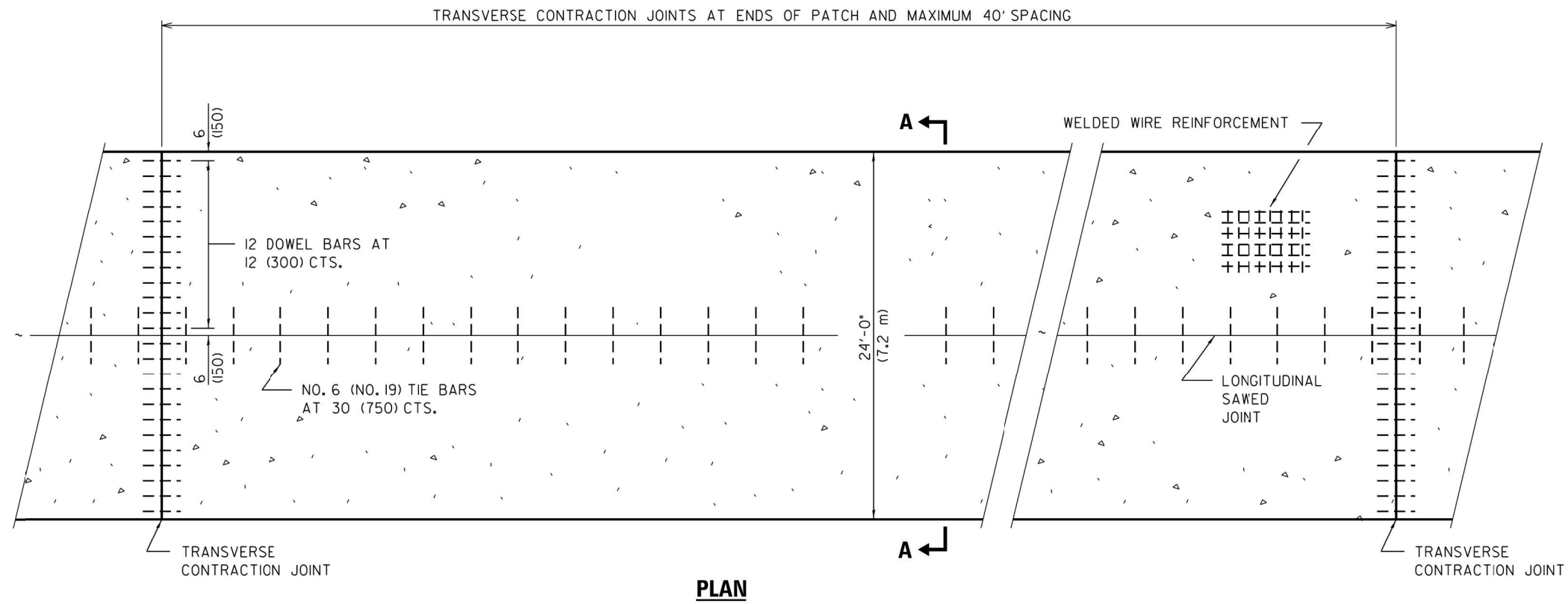
24' (7.2 m) PCC PAVEMENT
OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT
(IF NEEDED PER STANDARD SPECIFICATIONS)



PLAN

GENERAL NOTES

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

REVISIONS

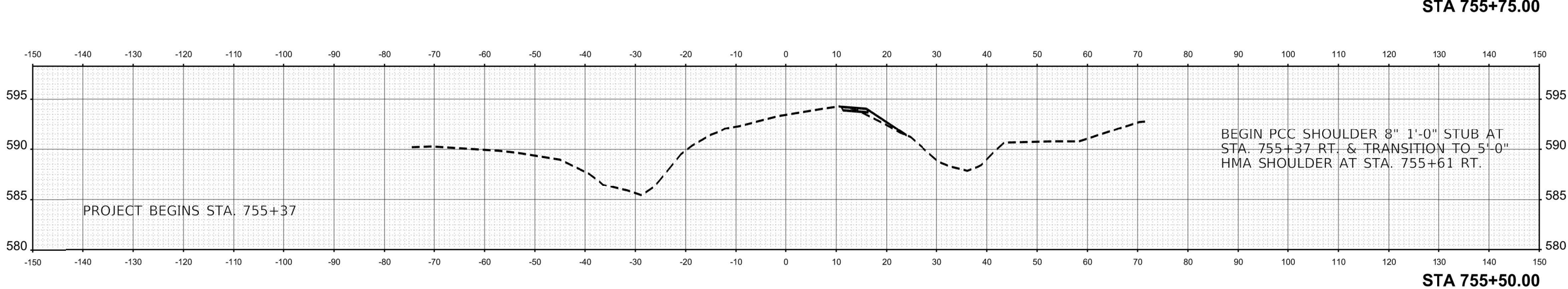
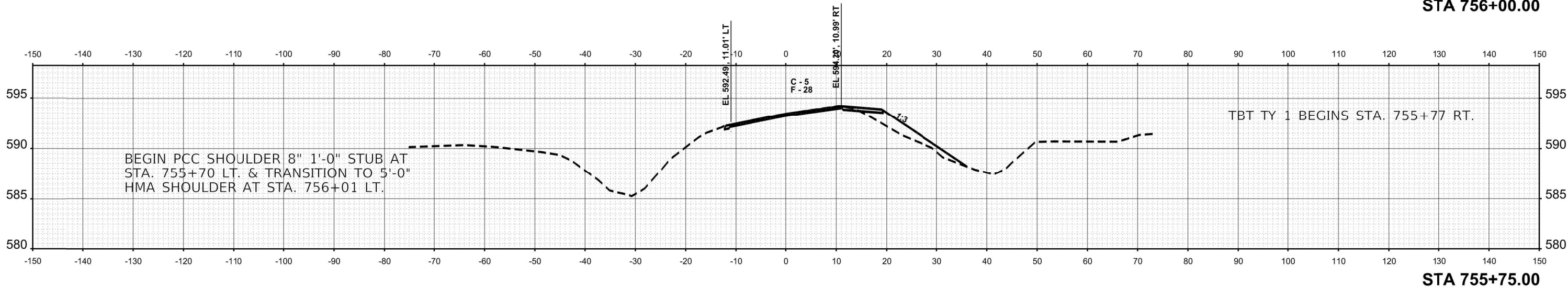
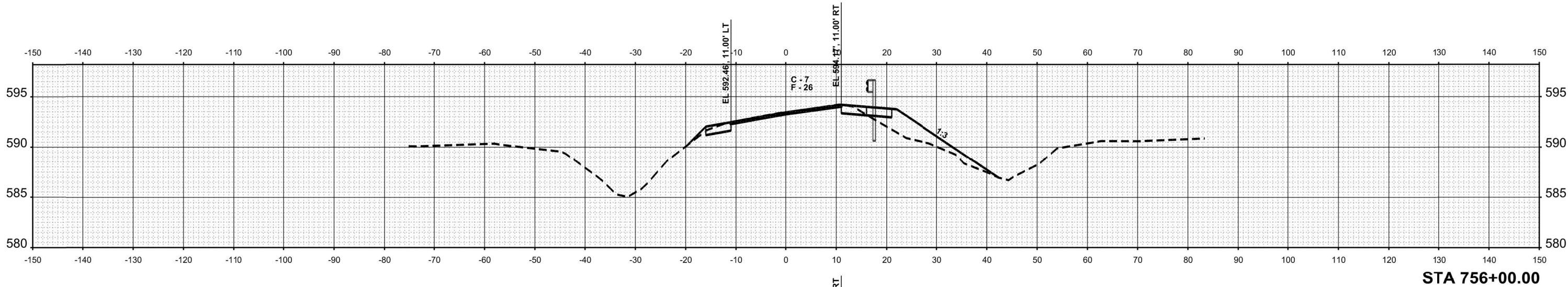
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STD. 9-25

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	PLOTTED _____			
NOTE BOOK	TEMPLATE _____			
	AREAS _____			
NO _____	AREAS CHECKED _____			

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

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

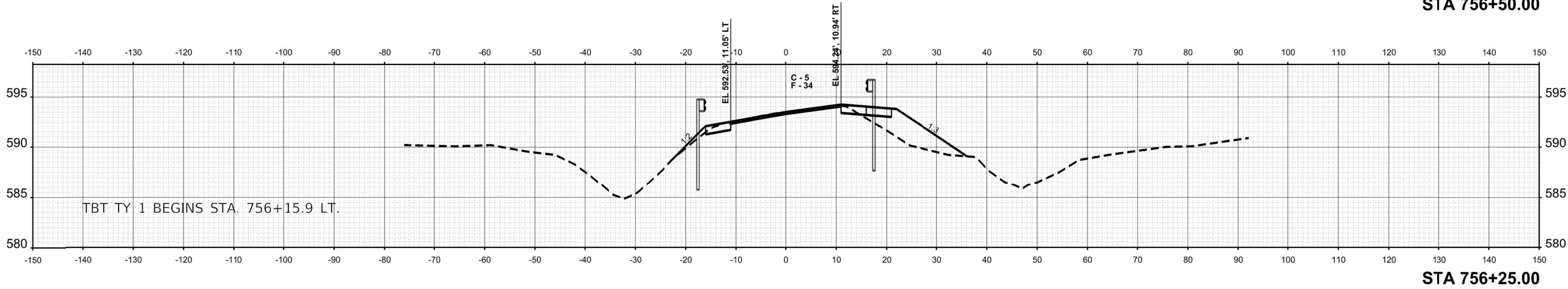
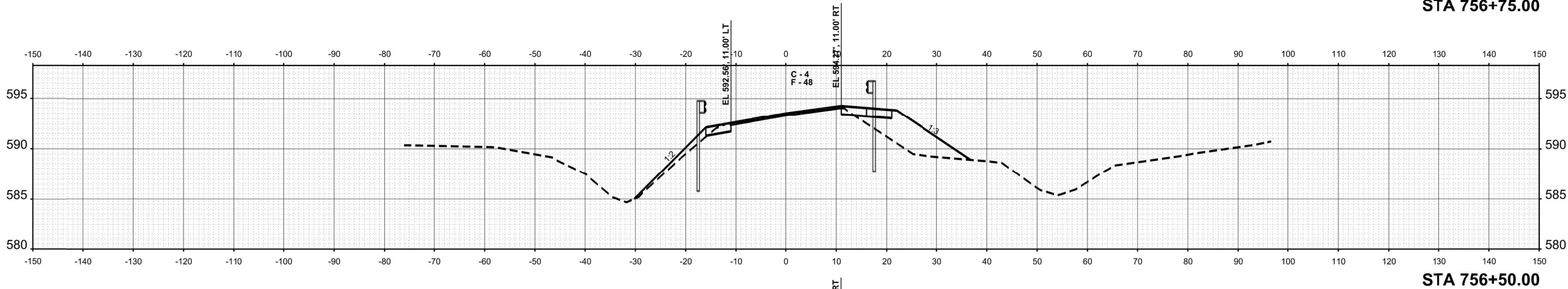
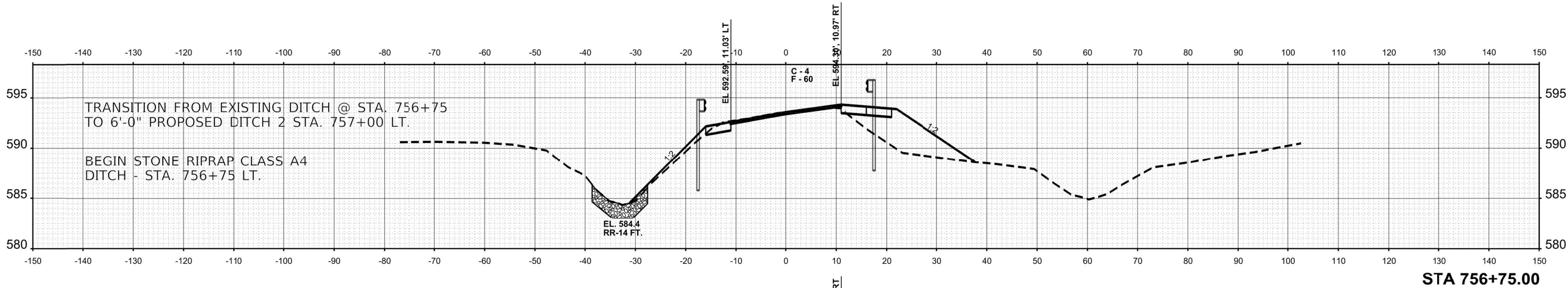
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1911	12CR-1	UNION	42	34
CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	TEMPLATE AREAS	CHECKED DATE	BY

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

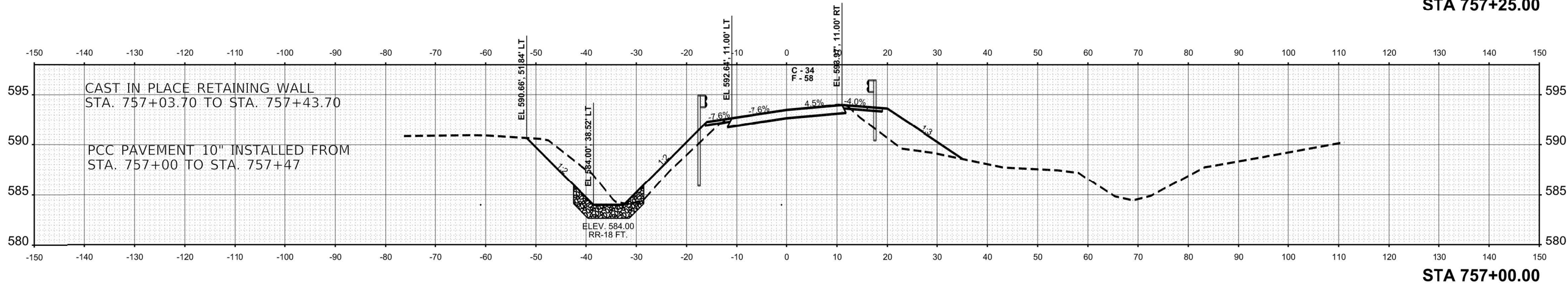
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CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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	SURVEYED _____				
	PLOTTED _____				
NOTE BOOK	TEMPLATE _____				
	AREAS _____				
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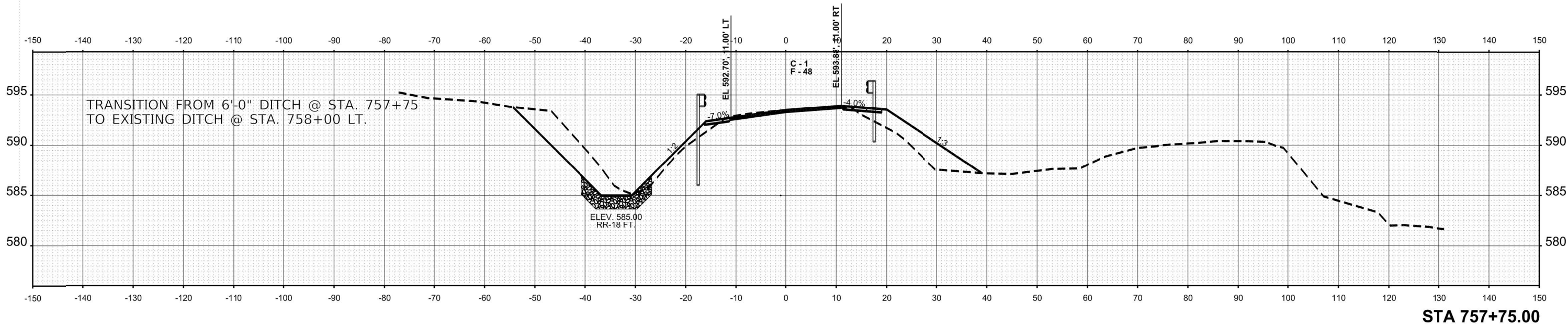
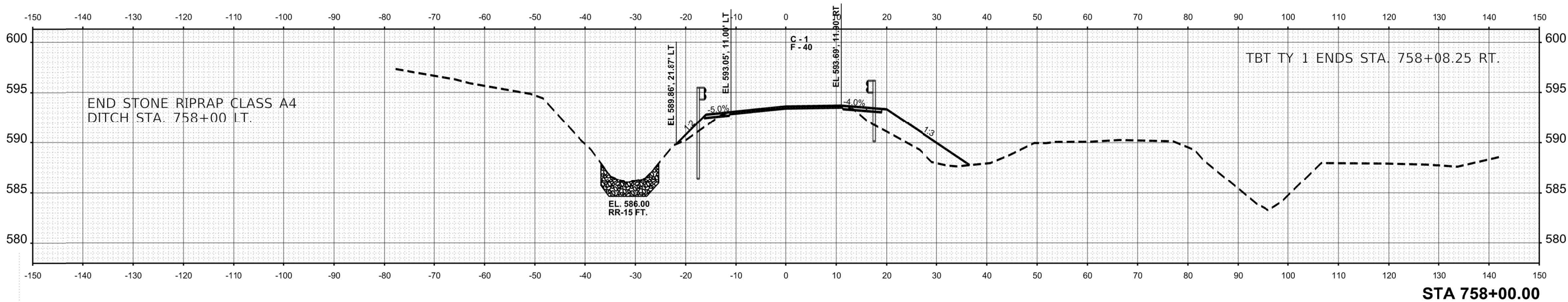
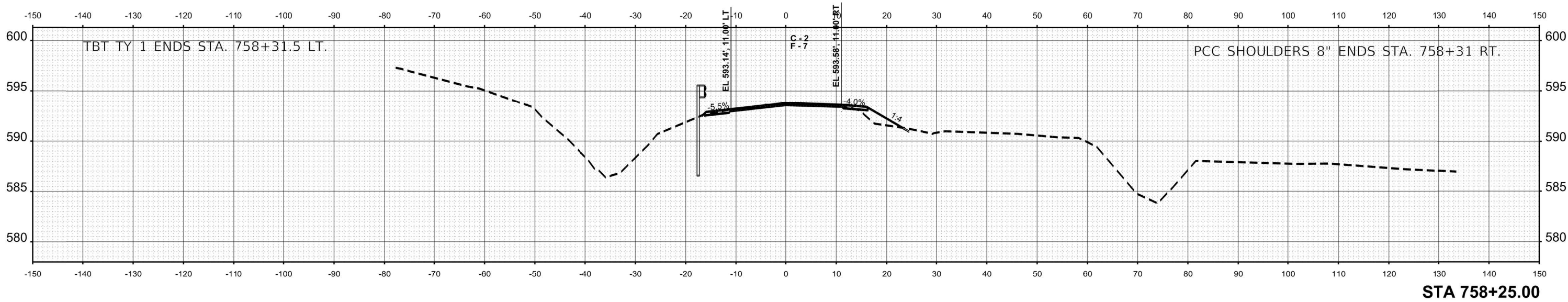
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ILLINOIS		FED. AID PROJECT		

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	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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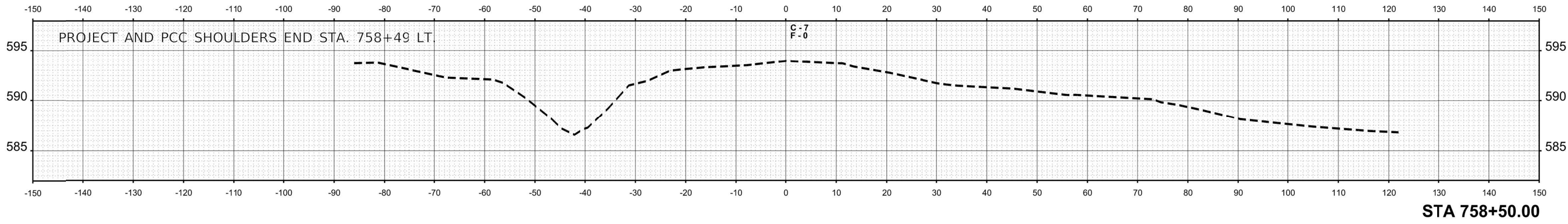
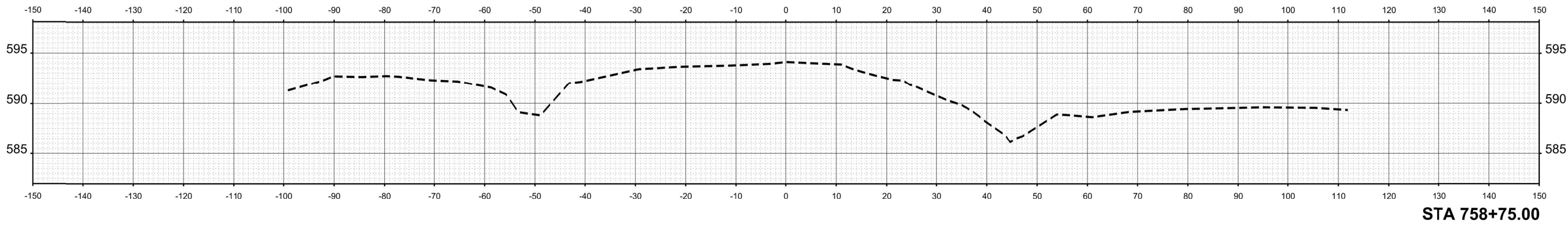
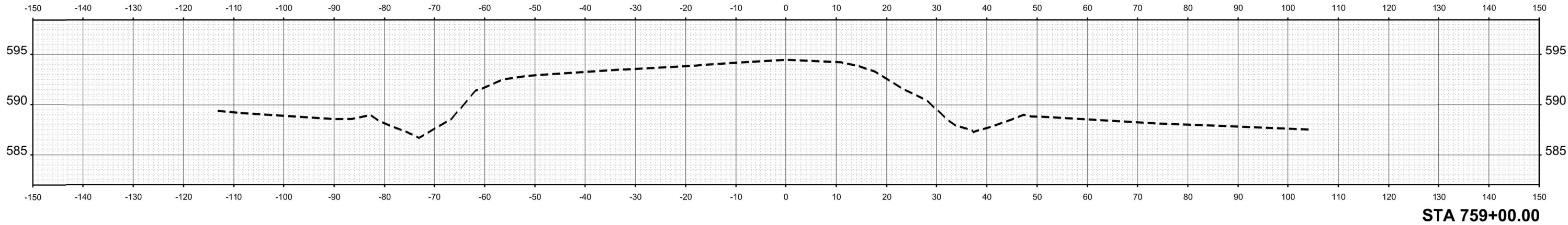
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CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

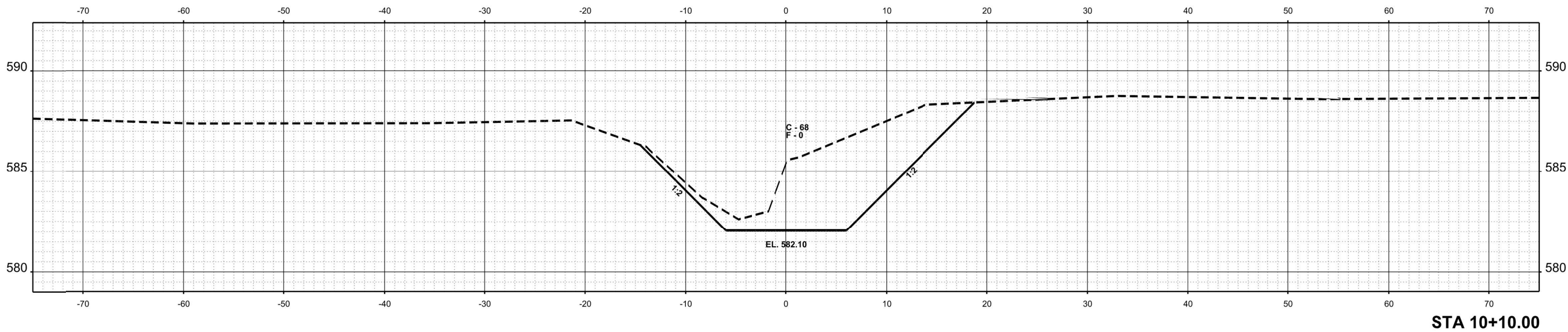
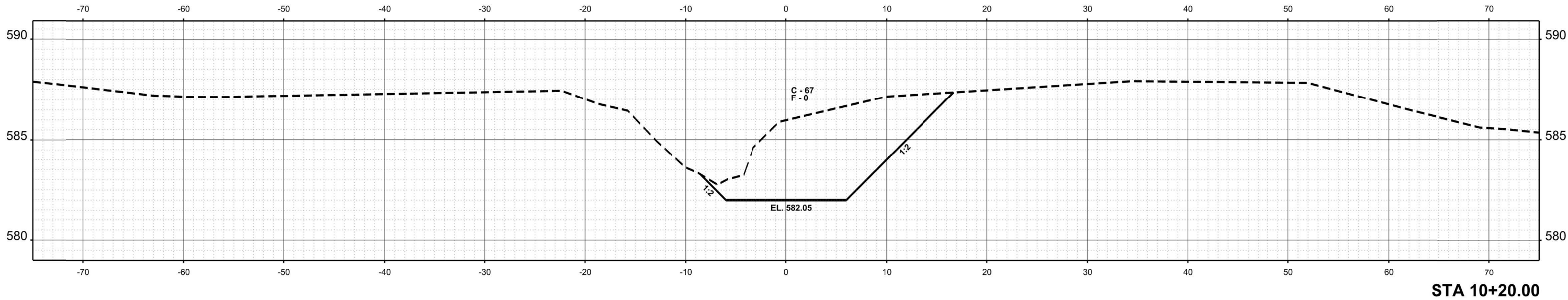
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CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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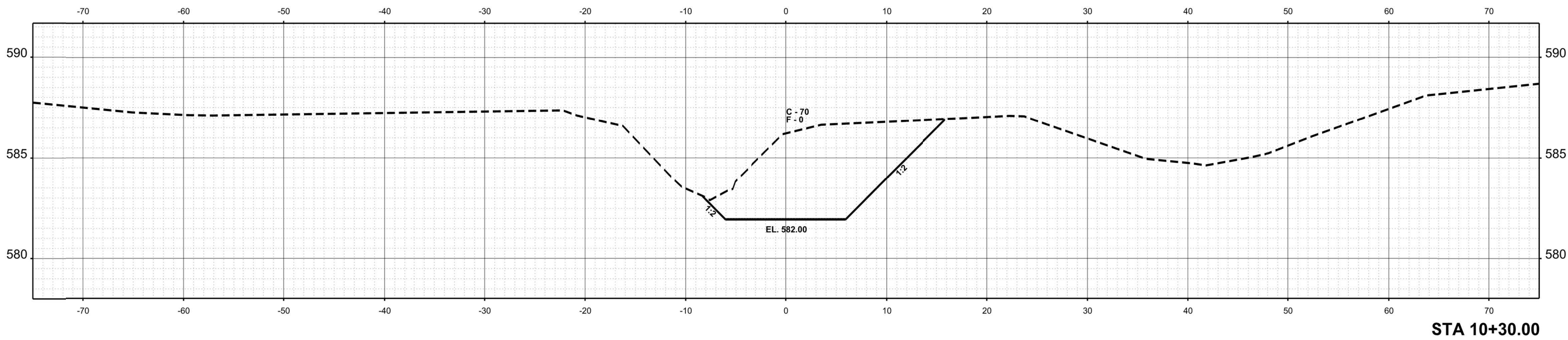
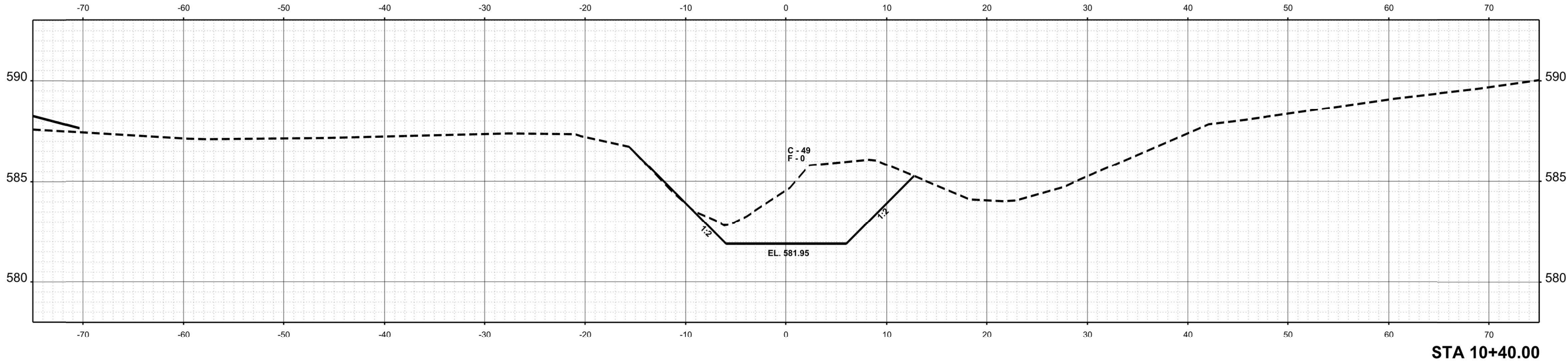
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	12CR-1	UNION	42	39
CONTRACT NO. 78A15				
ILLINOIS		FED. AID PROJECT		

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	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

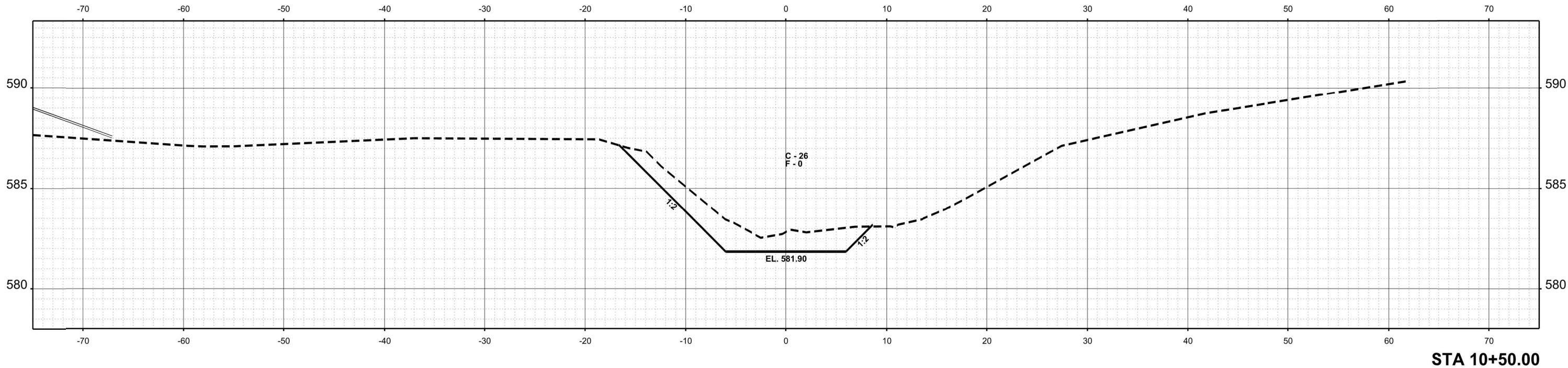
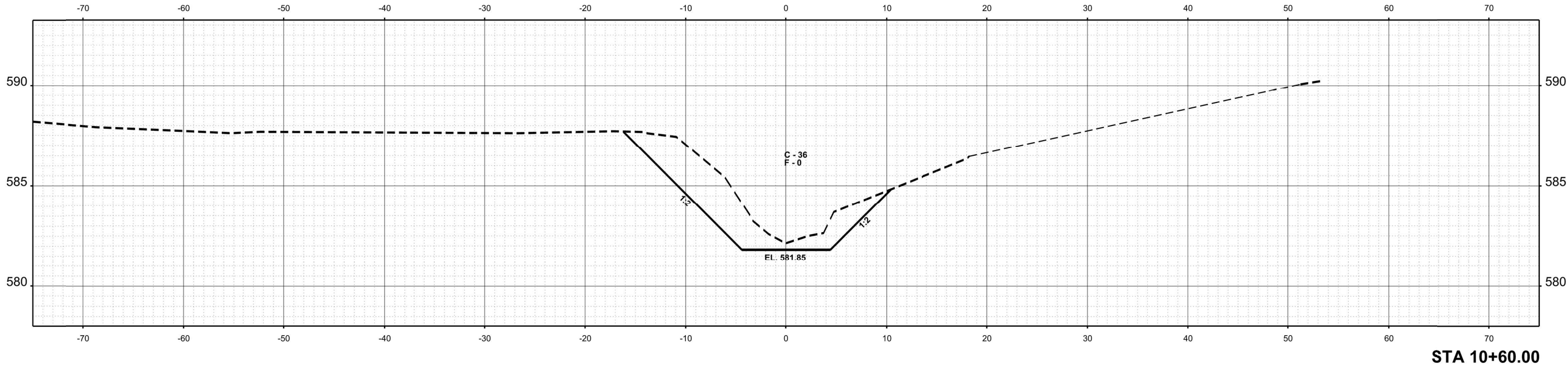
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CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

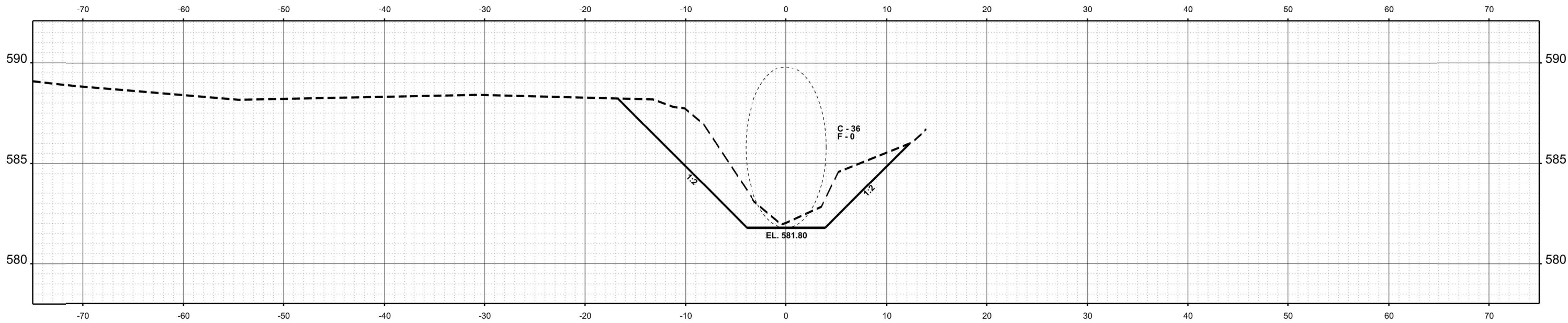
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CONTRACT NO. 78A15				
ILLINOIS FED. AID PROJECT				

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS

SCALE: 1"=5' SHEET OF SHEETS STA. 10+63.02 TO STA. 10+63.02

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				