

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	12-1(SLP-2,SR-1,GR-1)	UNION	13	1
			CONTRACT NO. 78A91	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

PROPOSED HIGHWAY PLANS

FAP ROUTE 322 (US 51)
SECTION 12-1(SLP-2,SR-1,GR-1)

SLOPE REPAIR & GUARDRAIL IMPROVEMENT
UNION COUNTY

C-99-120-24

TRAFFIC DATA

2023 - 5950 ADT WITH 11.9% TRUCK

TOWNSHIPS

COBDEN

DESIGN DESIGNATION :
COORDINATE SYSTEM : EPSG: 102671
NAD 1983 STATE PLANE ILLINOIS EAST FIPS 1201 FEET
POSTED SPEED : 55 MPH

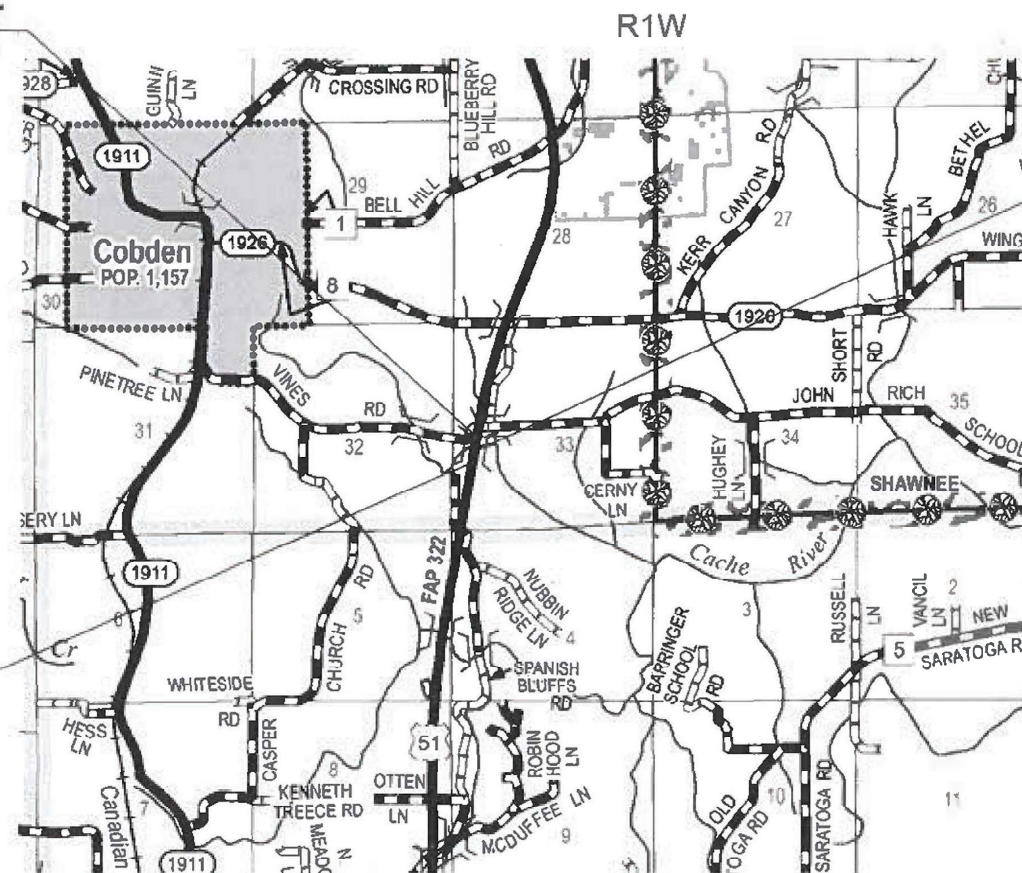
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: NATHAN TAYLOR
PROJECT DESIGNER: ROBERT HANDY

CONTRACT NO. 78A91

BEGIN PROJECT
STA 745+25

END PROJECT
STA 752+00



GROSS LENGTH = 675.00 FT. = 0.13 MILES
NET LENGTH = 675.00 FT. = 0.13 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 4 20 24
Kirk H. Brown
REGION FIVE ENGINEER
January 31 20 25
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
January 31 20 25
Paul J. Perry
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

MODEL: Signature Sheet
FILE NAME: C:\p\work\robert.handy\10095660578A91-ShA-Cover.dgn

Prepared By: 
DISTRICT STUDIES & PLANS ENGINEER

Examined By: 
DISTRICT LAND ACQUISITION ENGINEER

Examined By: 
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: 
DISTRICT OPERATIONS ENGINEER

Examined By: 
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: 
DISTRICT CONSTRUCTION ENGINEER

Examined By: 
DISTRICT MATERIALS ENGINEER

USER NAME	• robert.handy	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	• 9/3/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	12-1(SLP-2,SR-1,GR-1)	UNION	13	2
CONTRACT NO. 78A91				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, AND COMMITMENTS
4-6	SUMMARY OF QUANTITIES
7	TYPICAL SECTION
8-9	SCHEDULES
10	PLAN SHEET & STONE RIPRAP PLACEMENT DETAIL
11	STEP CONSTRUCTION DETAIL-X-SECTION-STA 750+19
12-13	CROSS SECTIONS

GENERAL NOTES

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

ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.
EARTH	110 LBS/CU. FT.
LIME	4% WEIGHT OF EARTH

AT ALL LOCATIONS WHERE THE PROPOSED CONCRETE SHOULDER AND CURB & GUTTER THAT 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.

REMOVAL OF ABANDONED UTILITIES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION

COMMITMENTS: NONE

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-10 PAVEMENT JOINTS
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
- 483001-06 PCC SHOULDER
- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 606001-08 CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
- 630001-13 STEEL PLATE BEAM GUARDRAIL
- 630201-07 PCC_HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 701006-05 OFF-ROADOPERATIONS, 2L, 2W, 15 FT TO 24 IN FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS 45 MPH OR MORE
- 701316-14 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS 45 MPH OR MORE
- 701901-10 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)

REV - MS

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		DRAWN -	REVISED -					322	12-1(SLP-2,SR-1,GR-1)	UNION	13	3
		CHECKED -	REVISED -					CONTRACT NO. 78A91				
	PLOT DATE = 12/17/2024	DATE -	REVISED -		SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

COUNTY:	UNION
ROUTE:	FAP 322
FUNDING:	100% STATE
LOCATION:	RURAL
	0006

CODE NUMBER	ITEM DESCRIPTION	UNIT	
20200100	EARTH EXCAVATION	CU YD	1,099
20400800	FURNISHED EXCAVATION	CU YD	872
25000200	SEEDING, CLASS 2	ACRE	0.10
25000350	SEEDING, CLASS 7	ACRE	0.10
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.40
25100115	MULCH, METHOD 2	ACRE	0.10
25100630	EROSION CONTROL BLANKET	SQ YD	296
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	12
28000400	PERIMETER EROSION BARRIER	FOOT	330
28100107	STONE RIPRAP, CLASS A4	SQ YD	694
28200200	FILTER FABRIC	SQ YD	712

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REV - MS

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		DRAWN -	REVISED -					322	12-1(SLP-2,SR-1,GR-1)	UNION	13	4
		CHECKED -	REVISED -					CONTRACT NO. 78A91				
	PLOT DATE = 12/3/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES - CONT

COUNTY:	UNION
ROUTE:	FAP 322
FUNDING:	100% STATE
LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	
			0006
30201500	LIME	TON	60
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	224
42001300	PROTECTIVE COAT	SQ YD	327
44004250	PAVED SHOULDER REMOVAL	SQ YD	184
44213204	TIE BARS 3/4"	EACH	62
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	148
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	60
60109640	BACKSLOPE DRAINS, TYPE 3 4"	FOOT	358
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	779
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	862
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	1,012
67100100	MOBILIZATION	L SUM	1

* SPECIALTY ITEM

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		CHECKED -	REVISED -					CONTRACT NO. 78A91				
	PLOT DATE = 12/3/2024	DATE -	REVISED -		SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES - CONT

COUNTY:	UNION
ROUTE:	FAP 322
FUNDING:	100% STATE
LOCATION:	RURAL
	0006

CODE NUMBER	ITEM DESCRIPTION	UNIT	
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	176
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	14
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
X0322329	TIMBER CURB REMOVAL	FOOT	779

* SPECIALTY ITEM

MODEL: SOQ 3 [Sheet]
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- 1 PROP. PAVED SHOULDER REMOVAL (FULL DEPTH)
- 2 PROP. SUBBASE GRANULAR MATERIAL, TYPE A 12"
- 3 PROP. PORTLAND CEMENT CONCRETE SHOULDER 10"
- 4 PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 5 PROP. STEEL PLATE BEAM GUARDRAIL TY A, 9 FOOT POST
- 6 STONE RIPRAP CLASS A4- 16"
- 7 EXIST. STEEL PLATE BEAM GUARDRAIL (TO BE REMOVED)
- 8 EXIST. TIMBER CURB (TO BE REMOVED)
- 9 EXIST. PAVEMENT, 10.0"
- 10 EXIST. HMA SHOULDERS 9.5"
- 11 PROP. SAW CUT
- 12 EARTH EXCAVATION (UNSUITABLE)
- 13 FURNISHED EXCAVATION
- 14 STONE BEDDING - 6"

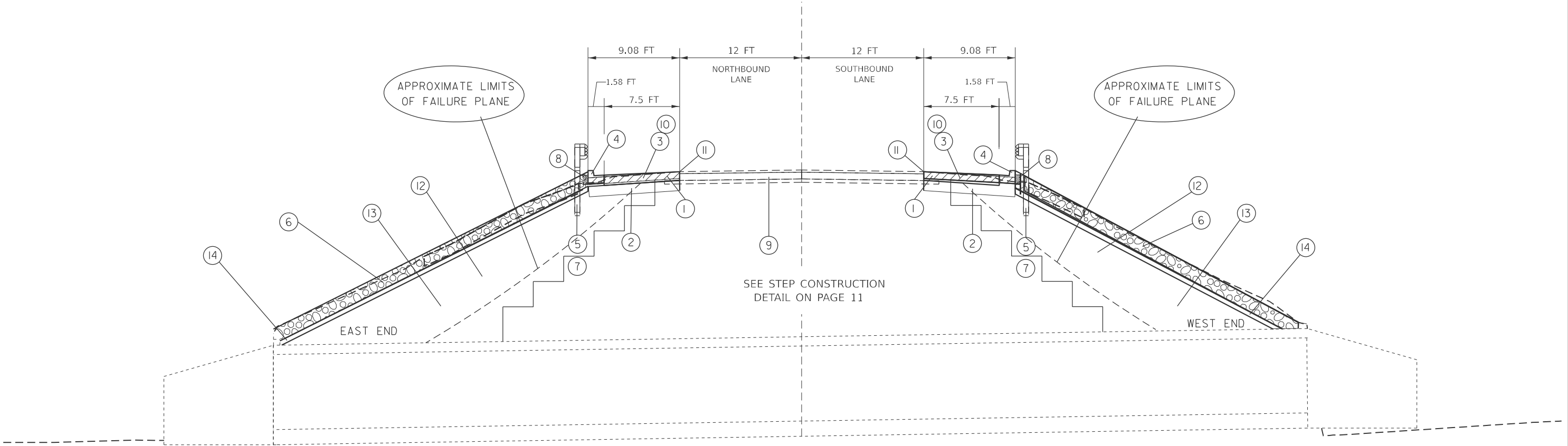
TYPICAL SECTION

N.T.S



US 51

FAP 322



SEE STEP CONSTRUCTION
DETAIL ON PAGE 11

TO BE USED:
SN 091-2001
FACING UP STATION

STA: 749+76.87 LT TO STA: 750+64.87 LT
STA: 749+83.33 RT TO STA: 750+71.33 RT

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		DRAWN -	REVISED -						322	12-1(SLP-2,SR-1,GR-1)	UNION	13	7
		CHECKED -	REVISED -						CONTRACT NO. 78A91				
	PLOT DATE = 12/10/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

EARTHWORK & PIPE UNDERDRAIN SCHEDULE

LOCATION STATION TO STATION	EARTH EXCAVATION (UNSUITABLE)	LEFT OR RIGHT	FOR INFORMATION ONLY		FURNISHED EXCAVATION	LIME	BACKSLOPE DRAINS TYPE 3 (4 INCH)	PIPE UNDERDRAIN (SPECIAL) (4 INCH)	CONCRETE HEADWALLS FOR PIPE DRAINS	NOTES
			EMBANKMENT (RIP-RAP & SEED AREA)	EARTHWORK BALANCE						
				WASTE (+) SHORTAGE (-)						
	CU YD		CU YD	CU YD	CU YD	TON	FOOT	FOOT	EACH	
749+56.87 TO 749+76.87	58	LT	9	49	49	3				SEED AREA
749+76.87 TO 749+86.54	61	LT	5	56	56	4	20	30	2	
749+86.54 TO 749+98.43	74	LT	15	59	59	4	24			
749+98.43 TO 750+30.34	104	LT	36	68	68	5	64			
750+30.34 TO 750+40.51	63	LT	13	50	50	3	20			
750+40.51 TO 750+64.87	79	LT	27	52	52	4	50			
750+64.87 TO 750+84.87	58	LT	9	49	49	3				SEED AREA
749+63.33 TO 749+83.33	62	RT	5	57	57	4				SEED AREA
749+83.33 TO 749+96.74	90	RT	14	76	76	5	28	30	2	
749+96.74 TO 750+07.6	67	RT	14	53	53	4	22			
750+07.6 TO 750+39.28	185	RT	33	152	152	10	64			
750+39.28 TO 750+50.92	68	RT	15	53	53	4	24			
750+50.92 TO 750+71.33	68	RT	27	41	41	3	42			
750+71.33 TO 750+91.33	62	RT	5	57	57	4				SEED AREA
TOTALS:	1,099				872	60	358	60	4	

STONE RIP-RAP SCHEDULE

* UNSUITABLE EXCAVATION SHALL BE WASTED OFFSITE

LOCATION STATION TO STATION			LEFT OR RIGHT	LENGTH	DEPTH (BEDDING MAT)	DEPTH (RIP-RAP)	WIDTH	FILTER FABRIC	STONE RIP-RAP CLASS A-4	PERIMETER EROSION BARRIER	COMMENTS
				FOOT	FOOT	FOOT	FOOT	SQ YD	SQ YD	FOOT	
			FOR INFO ONLY								
SN 091-2001											
749+56.87	TO	749+76.87	LT	20	0.5	1.3	5	13	12		PERIMTER EROSION BARRIER 748+88.52 TO 749+86.54 750+40.51 TO 751+40.70
749+76.87	TO	750+64.87	LT	88	0.5	1.3	33	330	323	165	
750+64.87	TO	750+84.87	LT	20	0.5	1.3	5	13	12		
749+63.33	TO	749+83.33	RT	20	0.5	1.3	5	13	12		PERIMTER EROSION BARRIER 748+96.72 TO 749+96.74 750+50.92 TO 751+51.59
749+83.33	TO	750+71.33	RT	88	0.5	1.3	33	330	323	165	
750+71.33	TO	750+91.33	RT	20	0.5	1.3	5	13	12		
TOTAL								712	694	330	

SEEDING SCHEDULE

LOCATION STATION TO STATION			LEFT OR RIGHT	LENGTH	WIDTH	SEEDING CL 2	SEEDING CL 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	MULCH METHOD 2
				FOOT	FOOT	ACRE	ACRE	POUND	POUND	POUND	TON	SQ YD	POUND	ACRE
STA.	TO	STA.		FOR INFO ONLY										
SN 091-2002														
749+56.87	TO	749+76.87	LT	20	34.0	0.03	0.03	3	3	3	0.1	76	3	0.03
750+64.87	TO	750+84.87	LT	20	34.0	0.02	0.02	2	2	2	0.1	76	3	0.02
749+63.33	TO	749+83.33	RT	20	32.0	0.02	0.02	2	2	2	0.1	72	3	0.02
750+71.33	TO	750+91.33	RT	20	32.0	0.02	0.02	2	2	2	0.1	72	3	0.02
TOTAL						0.10	0.10	9	9	9	0.40	296	12	0.10

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		DRAWN -	REVISED -							322	12-1(SLP-2,SR-1,GR-1)	UNION	13	8
		CHECKED -	REVISED -							CONTRACT NO. 78A91				
PLOT DATE = 12/3/2024		DATE -	REVISED -							ILLINOIS FED. AID PROJECT				
					SCALE:		SHEET 1	OF 2	SHEETS	STA.	TO STA.			

SHOULDER SCHEDULE

LOCATION STATION TO STATION			LENGTH	WIDTH EXISTING SHLDR	WIDTH PROP SHLDR	PAVED SHOULDER REMOVAL	SUBBASE GRANULAR MATERIAL, TYPE A 12"	PORTLAND CEMENT CONCRETE SHOULDER 10"	PROTECTIVE COAT	THERMOPLASTIC PVMT MARKING 4"	TIE BARS 3/4"
			FOOT	FOOT	FOOT	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	EACH
EAST (LEFT)											
749+76.87	TO	750+64.87	88.0	9.3	7.5	92	112	74	74	88	31
WEST (RIGHT)											
749+83.33	TO	750+71.33	88.0	9.3	7.5	92	112	74	74	88	31
TOTAL						184	224	148	148	176	62

CURB AND GUTTER SCHEDULE

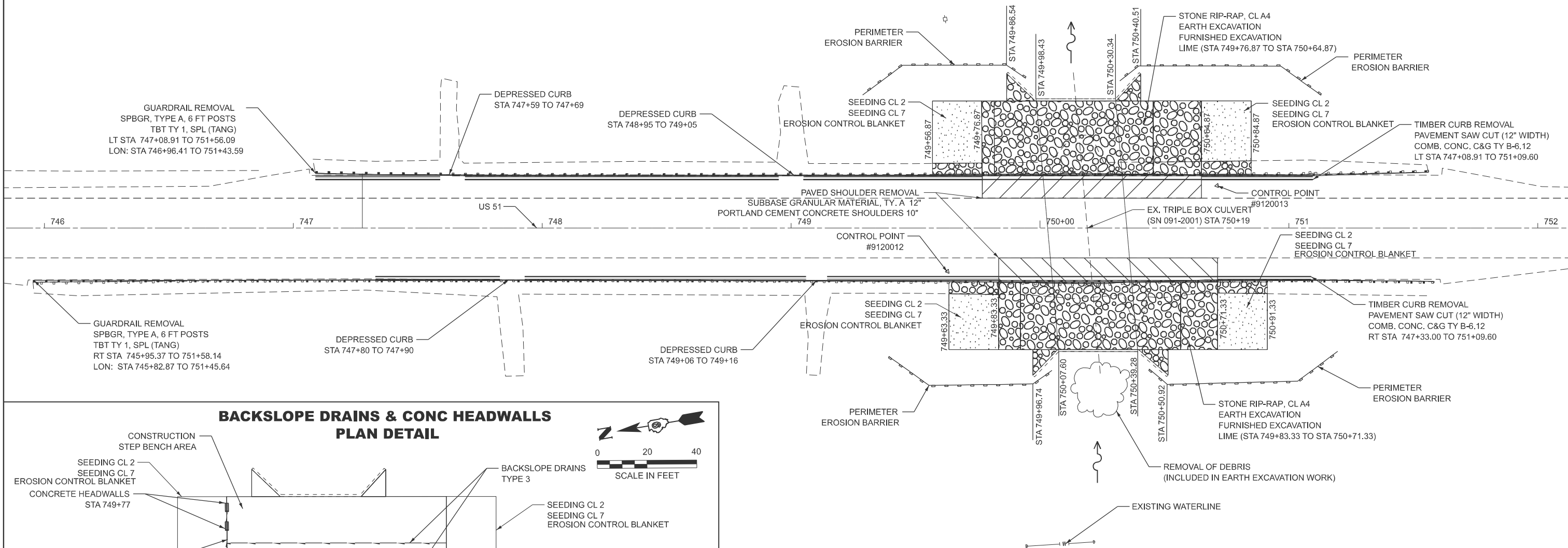
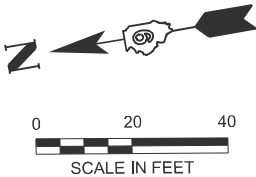
LOCATION STATION TO STATION			TIMBER CURB REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	PROTECTIVE COAT	COMMENTS
			FOOT	FOOT	SQ YD	
US 51 (UNION COUNTY)						
EAST (LEFT)						
747+08.91	TO	747+59.	51	51	12	
747+59.	TO	747+69.	10	10	3	DEPRESSED CURB FOR OUTLET
747+69.	TO	748+95	126	126	28	
748+95.	TO	749+05.	10	10	3	DEPRESSED CURB FOR OUTLET
749+05.	TO	751+09.6	205	205	46	
WEST (RIGHT)						
747+33.	TO	747+80.	47	47	11	
747+80.	TO	747+90.	10	10	3	DEPRESSED CURB FOR OUTLET
747+90.	TO	749+06.	116	116	26	
749+06.	TO	749+16.	10	10	3	DEPRESSED CURB FOR OUTLET
749+16.	TO	751+09.8	194	194	44	
TOTAL			779	779	179	

GUARDRAIL SCHEDULE

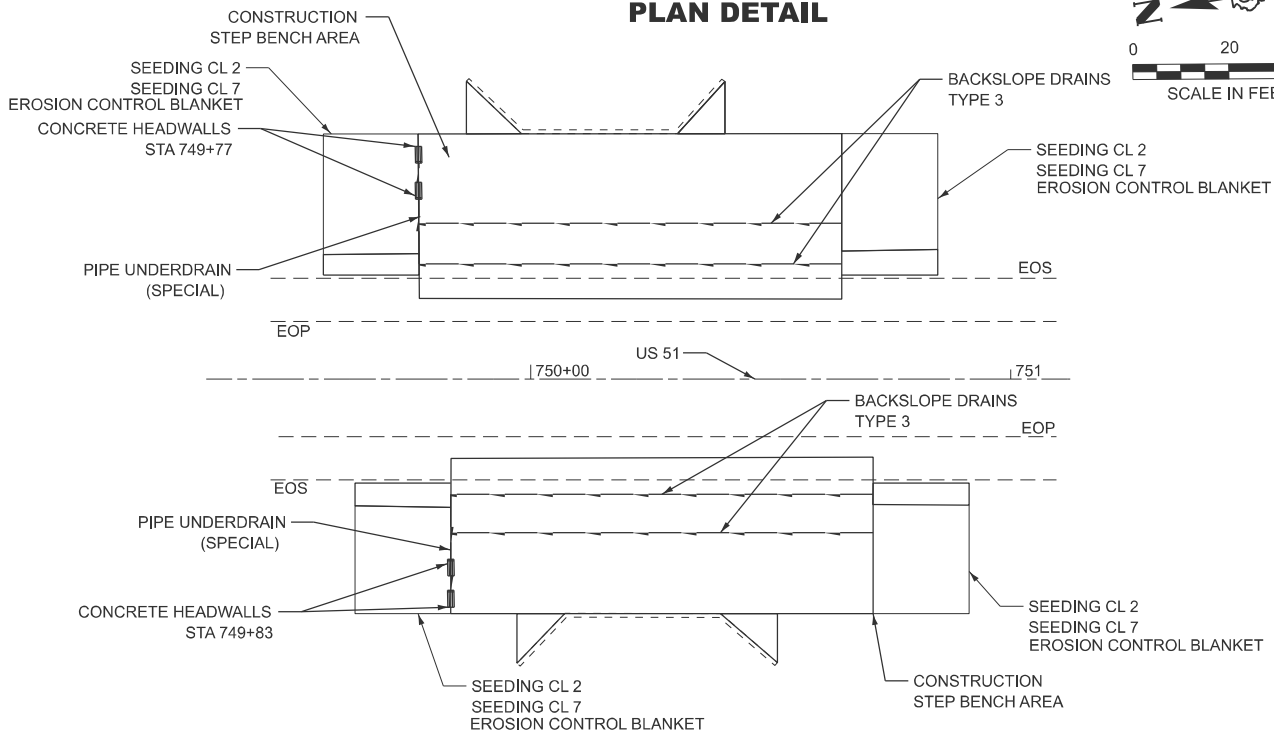
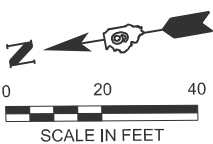
LOCATION STATION TO STATION			QUAD	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL TY A, 9 FOOT POST	TRAFF BARR TERM TY 1 (SP) TANGENT	GUARDRAIL REFLECTIVE, TYPE A	TERMINAL MARKER DIRECT APPLIED
						31 7/8"		
				FT	FT	EACH	EACH	EACH
UNION COUNTY								
STR SN 091-2001 STA 745+95.37 TO STA 751+58.59								
747+08.91	TO	751+56.13	EAST	448	373	2	6	2
745+95.37	TO	751+58.59	WEST	564	489	2	8	2
US 51 TOTAL				1,012	862	4	14	4

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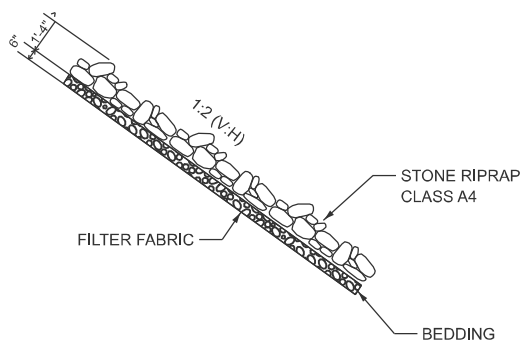
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		DRAWN -	REVISED -					322	12-1(SLP-2,SR-1,GR-1)	UNION	13	9
		CHECKED -	REVISED -		SCALE:			CONTRACT NO. 78A91				
	PLOT DATE = 12/3/2024	DATE -	REVISED -		SHEET 2	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



**BACKSLOPE DRAINS & CONC HEADWALLS
PLAN DETAIL**



**STONE RIPRAP PLACEMENT
DETAIL**



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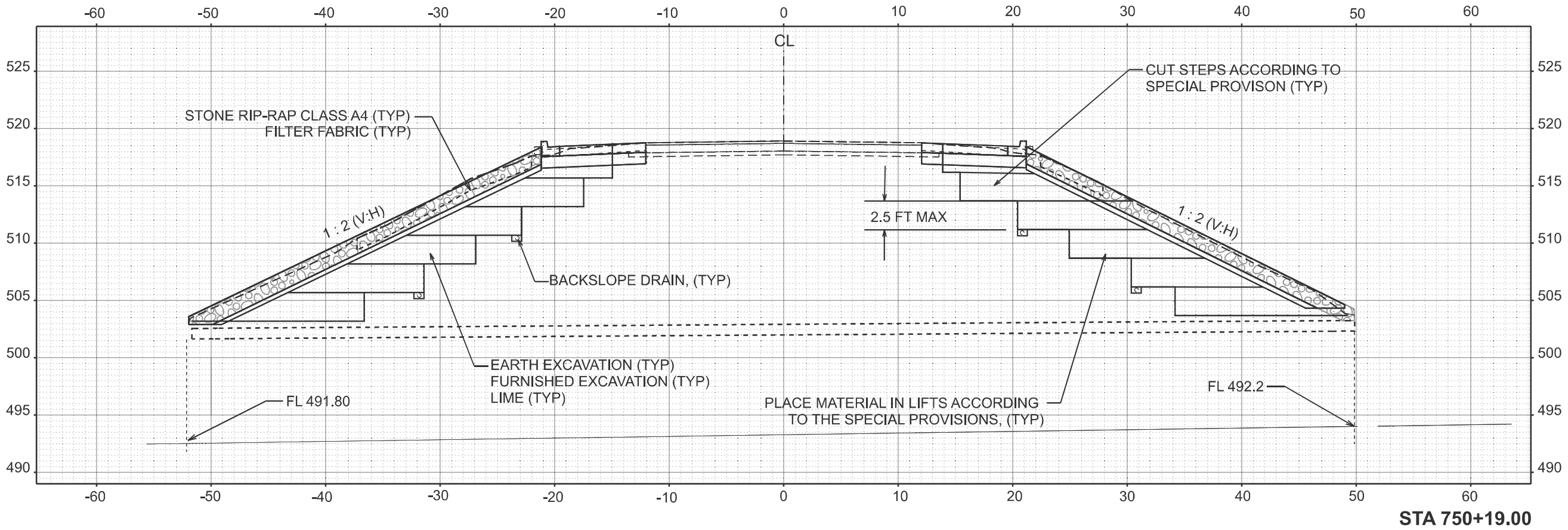
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	CHECKED -	REVISED -
PLOT DATE = 12/2/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET			
STONE RIPRAP PLACEMENT DETAIL			
SCALE: 1"=20'	SHEET 1	OF 1 SHEETS	STA. A 745+49.37 TO STA. A 754+49.37

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	12-1(SLP-2,SR-1,GR-1)	UNION	13	10
CONTRACT NO. 78A91				
ILLINOIS FED. AID PROJECT				

STEP CONSTRUCTION
DETAIL



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	CHECKED -	REVISED -
PLOT DATE = 12/10/2024	DATE -	REVISED -

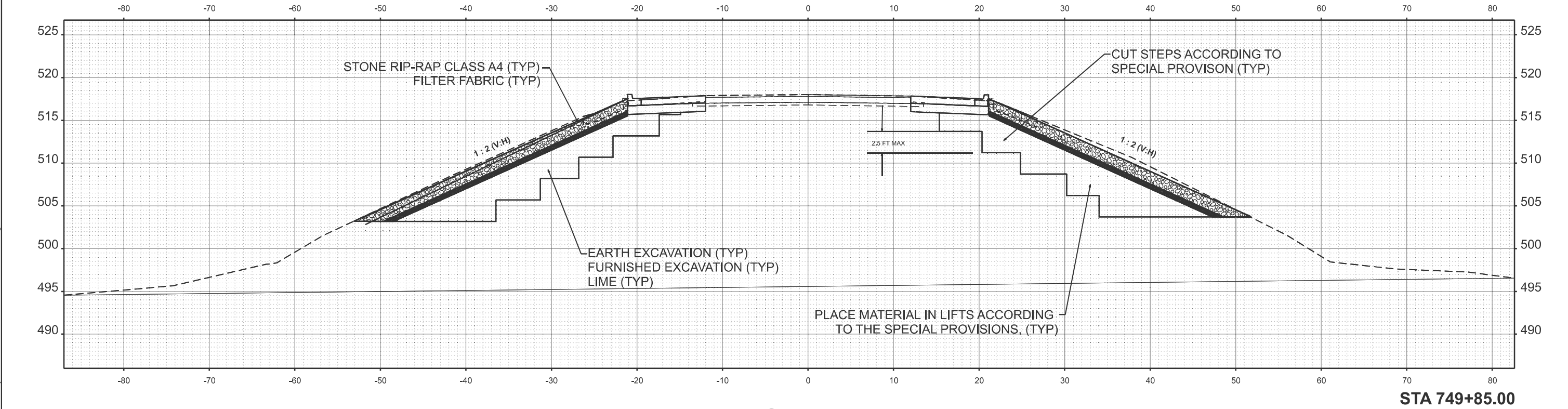
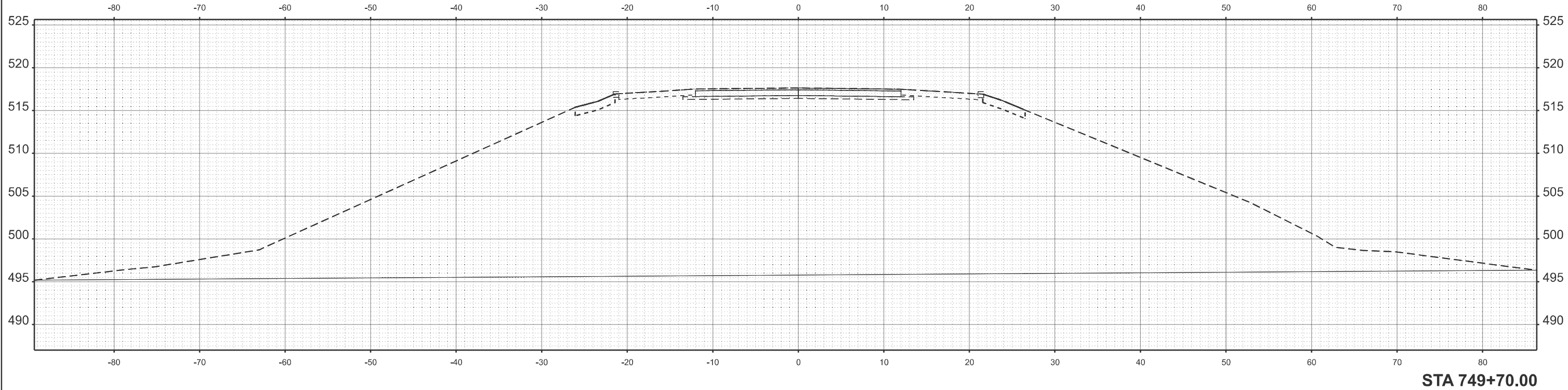
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEP CONSTRUCTION DETAIL

SCALE: 1"=5' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	12-1(SLP-2,SR-1,GR-1)	UNION	13	11
CONTRACT NO. 78A91				
ILLINOIS FED. AID PROJECT				

MODEL: US54 - A 749+70.00 [Sheet]
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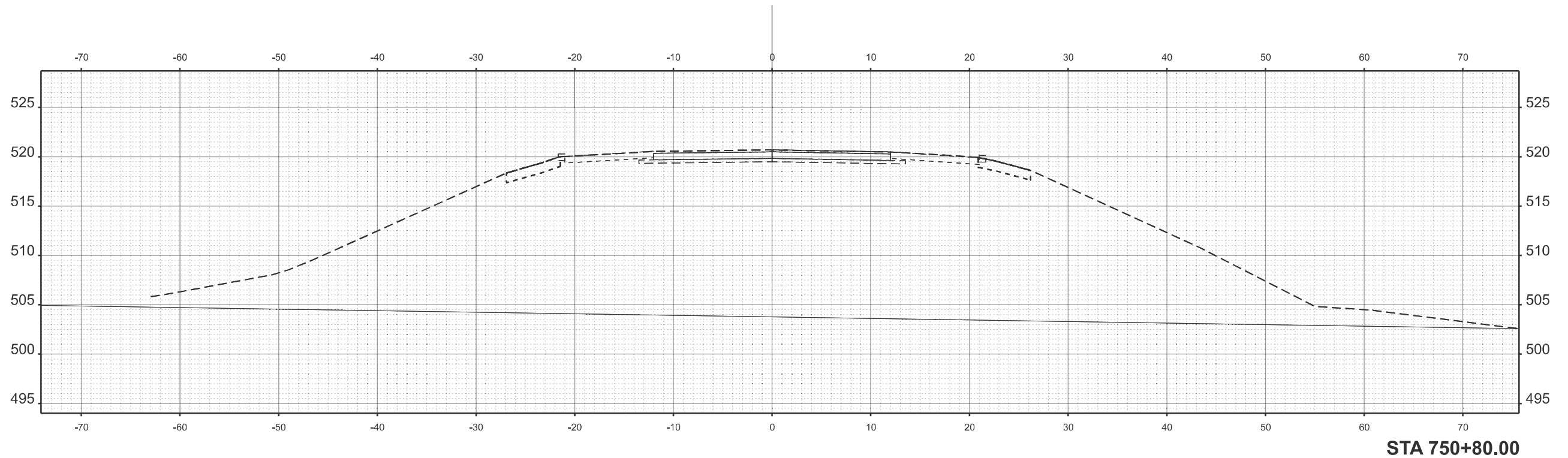
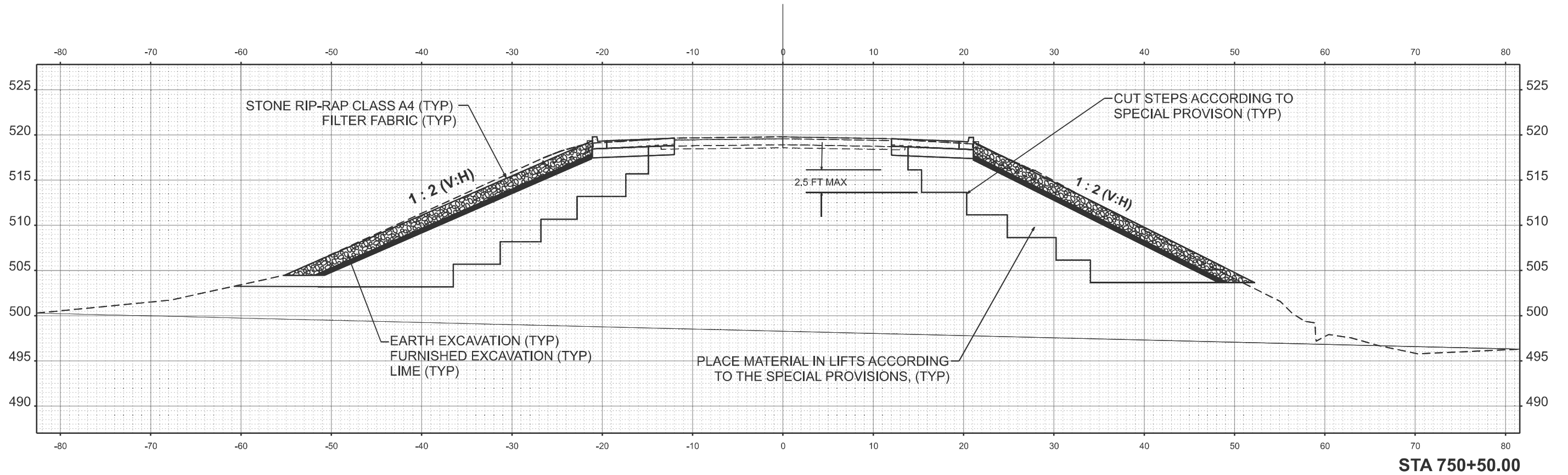
USER NAME	= robert.handy	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/17/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS

SCALE: CUSTOM 1:70 SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	12-1(SLP-2,SR-1,GR-1)	UNION	13	12
CONTRACT NO. 78A91				
ILLINOIS FED. AID PROJECT				



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USER NAME = robert.handy	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/17/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS

SCALE: CUSTOM 1:70 SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	12-1(SLP-2,SR-1,GR-1)	UNION	13	13
CONTRACT NO. 78A91				
ILLINOIS FED. AID PROJECT				