

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 717	11-00120-01-DR	FAYETTE	38	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 95897		

**INDEX OF SHEETS**

06-11-2021 LETTING ITEM 231

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4-5.	PLAN AND PROFILE
6.	TRAFFIC CONTROL PLAN
7-11.	CULVERT PLANS STA. 437+72
12.	BORINGS
13-16.	CULVERT PLANS STA. 446+00
17.	BORINGS
18-38.	STATION CROSS SECTIONS

**HIGHWAY STANDARDS:**

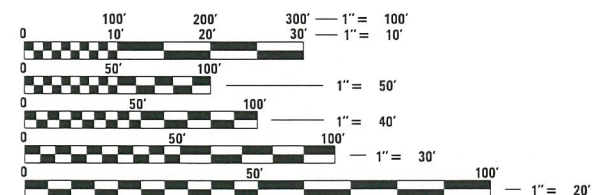
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-04	NAME PLATE FOR BRIDGES
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600m) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY. FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**UTILITIES**

FRONTIER COMMUNICATIONS  
801 W. JACKSON  
ALTAMONT, IL 62411

FAYETTE WATER COMPANY  
RR 1 BOX 71A  
BROWNSTOWN, IL 62418

SOUTHWESTERN ELECTRIC CO-OP  
525 US ROUTE 40  
GREENVILLE, IL 62246  
ATTENTION ENGINEERING DEPARTMENT



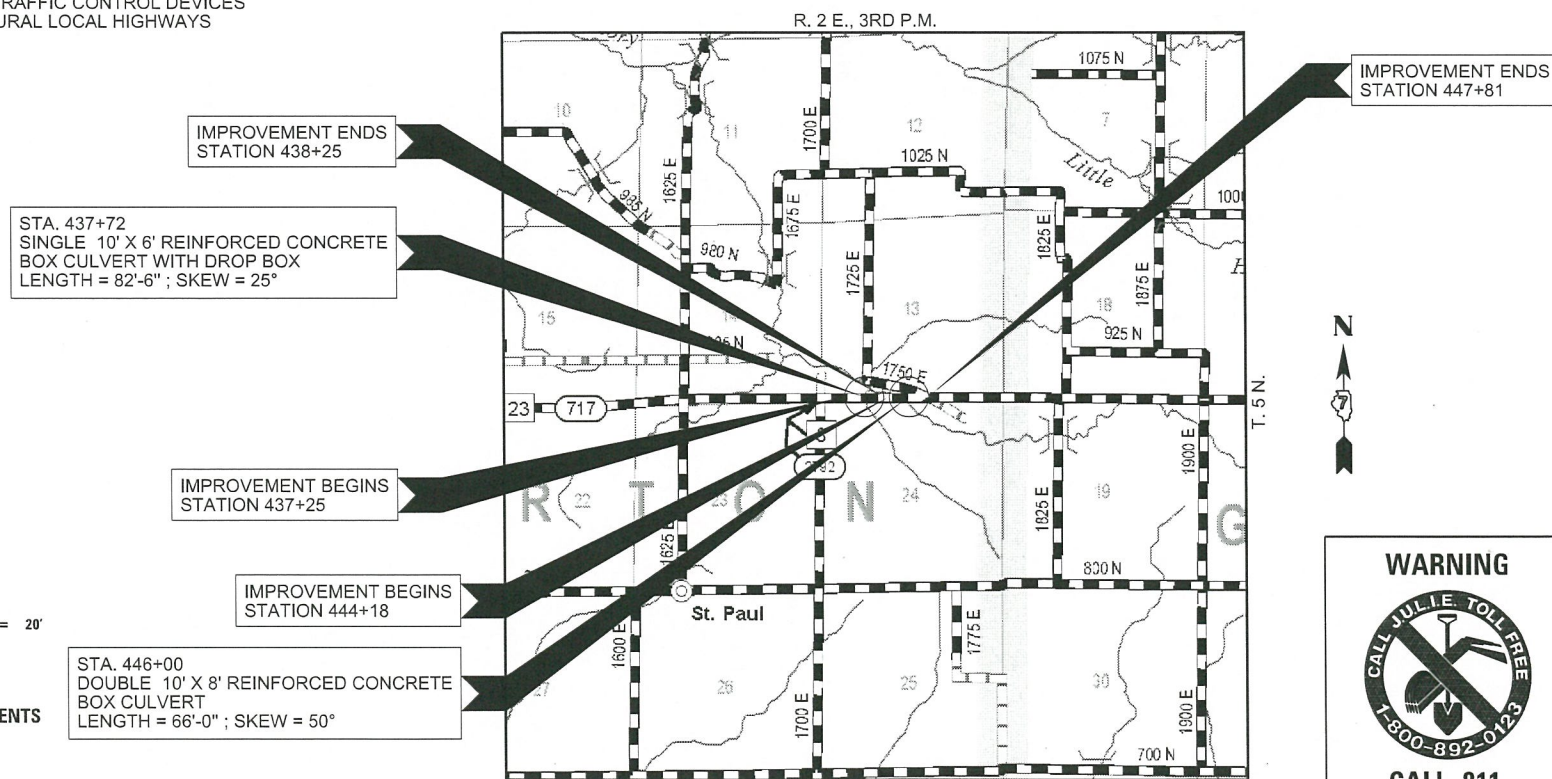
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: 550 ADT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM**

PROJECT OUF(348)  
SECTION 11-00120-01-DR  
FAYETTE COUNTY  
F.A.S. 717 / C.H. 23 / ST. PETER ROAD  
PROPOSED STRUCTURE NO. 026-3479  
C-97-067-19



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE  
NET LENGTH OF SECTION = 463 FEET = 0.088 MILES  
GROSS LENGTH OF SECTION = 1056 FEET = 0.200 MILES



**WARNING**

**CALL 811  
BEFORE YOU DIG**

DIG NO: X2091159

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED 4-5-21

*W. J. ...*  
COUNTY ENGINEER

PASSED 04/16/21

*Brett ...*  
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review

*Jeffrey ...*  
REGION FOUR ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE: 04/13/2021

*Steven W. ...*  
LICENSED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS

**HAMPTON, LENZINI AND RENWICK, INC.**  
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
217.546.3400 www.hlrengineering.com

184.00959  
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2021 PROJECT NUMBER: 18.0571.130 DATE: 04/13/2021

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
* ^ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	127
* ^ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	72
20101000	TEMPORARY FENCE	FOOT	200
^ 20200100	EARTH EXCAVATION	CU YD	424
20900110	POROUS GRANULAR BACKFILL	CU YD	234
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	195
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	800
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	144
^ 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	330
^ 40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	180
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	62
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	733
48101200	AGGREGATE SHOULDERS, TYPE B	TON	248
^ 50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
^ 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	80
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	77,040
* 50900205	STEEL RAILING, TYPE S1	FOOT	78
51100100	SLOPE WALL 4 INCH	SQ YD	108
51500100	NAME PLATES	EACH	2
52200015	PERMANENT SHEET PILING	SQ FT	1,697
54003000	CONCRETE BOX CULVERTS	CU YD	338.9
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	85
5421D042	PIPE CULVERTS, CLASS D, TYPE 1 42" (TEMPORARY)	FOOT	60
66500105	WOVEN WIRE FENCE, 4'	FOOT	350
67100100	MOBILIZATION	L SUM	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	170
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
^ X0301852	DEWATERING STRUCTURE NO. 1	EACH	1
^ X0301853	DEWATERING STRUCTURE NO. 2	EACH	1
^ X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	386
^ X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	390
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
^ X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
^ Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	463

^ SEE SPECIAL PROVISIONS  
\* SPECIALTY ITEMS

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE ROAD SHALL BE CLOSED TO TRAFFIC AT ALL TIMES EXCEPT AS DISCUSSED IN THE SPECIAL PROVISIONS AND TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING COSTRUCTION OF THE PROJECT.
- ALL EXCAVATED MATERIAL FROM THE PROJECT MAY BE USED IN THE PROPOSED EMBANKMENT AT THE APPROVAL OF THE ENGINEER.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.50 ACRES
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:  
 STONE RIPRAP 1.75 TON/CU.YD.  
 AGGREGATE SURFACE AND BASE COURSE 2.05 TON/CU.YD.  
 HOT-MIX ASPHALT 112 LB/SQ.YD./INCH THICKNESS  
 AGGREGATE SHOULDER 2.05 TON/CU.YD.  
 RAP 1.6 TON/CU.YD.

BITUMINOUS MATERIAL RATES	
SURFACE TYPE	RESIDUAL RATE
MILLED HMA OR PCC (TACK COAT)	0.05 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.05 LB/SQ FT
BETWEEN LIFTS (TACK COAT)	0.025 LB/SQ FT

- PAVEMENT SHALL BE SAWCUT AT STATIONS 437+25, 438+25, 444+18, & 447+81. COST INCLUDED IN EARTH EXCAVATION.

### ROADWAY SCHEDULE

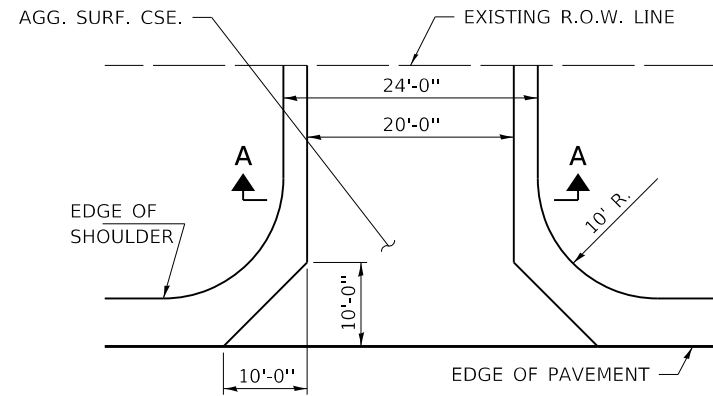
LOCATION	SUB-BASE GRANULAR MATERIAL, TY C 4"	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	CLASS D PATCHES, TYPE IV, 9 INCH	LONGITUDINAL JOINT SEALANT	AGGREGATE SHOULDERS, TYPE B (6")
		(2.05 T/CY)	(0.25 LB/SF)	(0.05 LB/SF)	(112 LB/IN/SY)			(2.05 T/CY)
CH 23 / ST. PETER ROAD	31102100	40200800	40600275	40600290	40604052	44201759	Z0033700	48101200
	SQ YD	TON	POUND	POUND	TON	SQ YD	FOOT	TON
STA. 437+25 TO 438+25	267		110	60	21	244.4	100	36
STA. 444+18 TO 447+81	533		220	120	41	488.9	363	212
ENTRANCES		144						
TOTAL	800	144	330	180	62	733	463	248

### EARTHWORK SCHEDULE

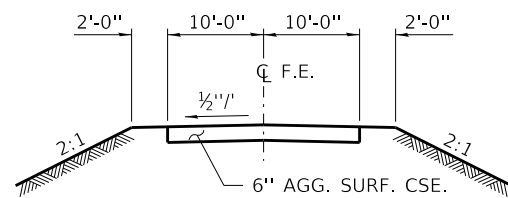
LOCATION	EARTH EXCAVATION	**MISC. EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
F.A.S. 717 / C.H. 23 / ST. PETER RD							
STA. 437+25 TO STA. 437+65	173		25.00%	100.00%	130	9	121
STA. 437+65 TO STA. 437+90	90		25.00%	100.00%	68	12	56
STA. 437+90 TO STA. 438+25	45		25.00%	100.00%	33	6	27
STA. 438+25 TO STA. 444+18	0		25.00%	100.00%	0	0	0
STA. 444+18 TO STA. 445+50	71		25.00%	100.00%	53	55	-2
STA. 445+50 TO STA. 446+50	45		25.00%	100.00%	34	33	1
STA. 446+50 TO STA. 447+81	0		25.00%	100.00%	0	0	0
EXCAVATION FOR CULVERT AND PGE**		290	25.00%	100.00%	218	0	218
TOTAL	424	290			536	115	421
USE	424						420

\*\* COST INCLUDED WITH CONCRETE BOX CULVERT

WASTE 420 CU YDS



**ENTRANCE DETAIL**



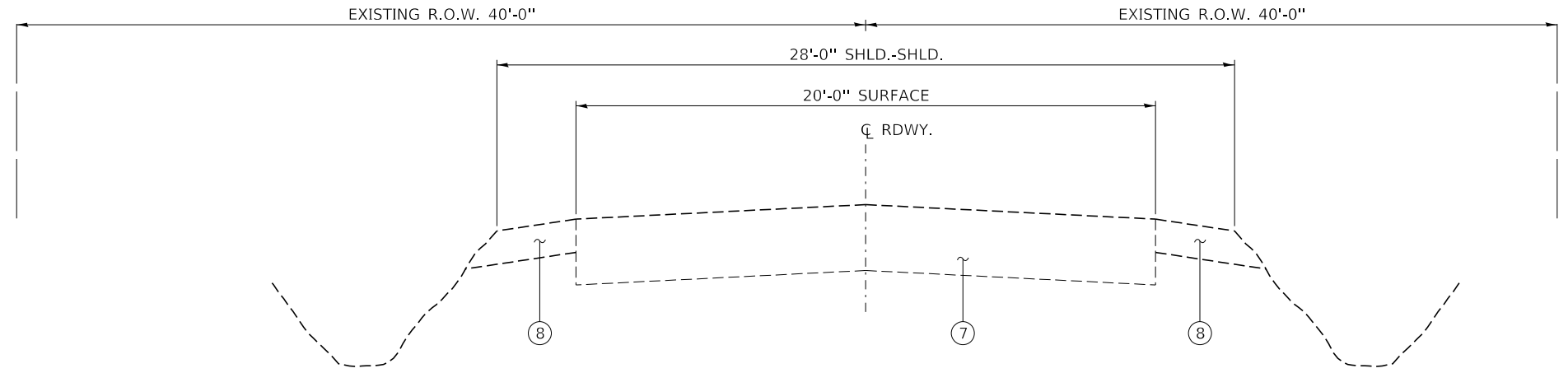
**SECTION A-A**

**LEGEND**

- ① HMA SURFACE COURSE, MIX C, IL-9.5, N70 (1 1/2" THICKNESS)
- ② SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ CLASS D, PATCH IV 9"
- ⑥ AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ EXISTING BITUMINOUS BASE COURSE
- ⑧ EXISTING AGGREGATE SHOULDER (6"±)
- ⑨ LONGITUDINAL JOINT SEALANT

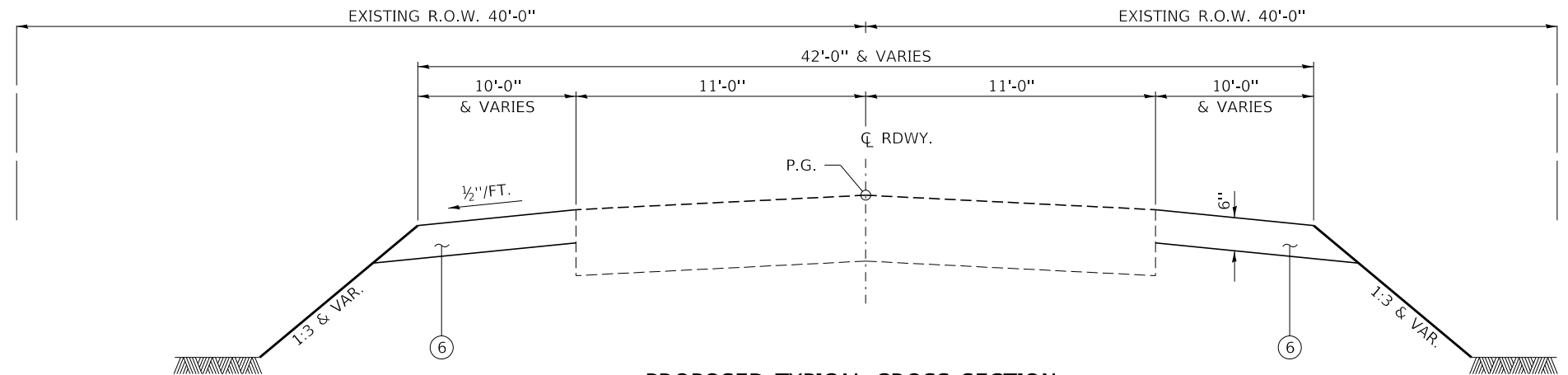
**ASPHALT MIXTURE REQUIREMENTS**

MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	CLASS D PATCHES
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ Ndes 70	4% @ Ndes 70
MIXTURE COMPOSITION: (MIXTURE GRADATION):	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NONE
MIXTURE WEIGHTS:	112 LBS. / SQ. YD. / INCH	112 LBS. / SQ. YD. / INCH
QUALITY CONTROL PROGRAM:	QC/QA	QC/QA



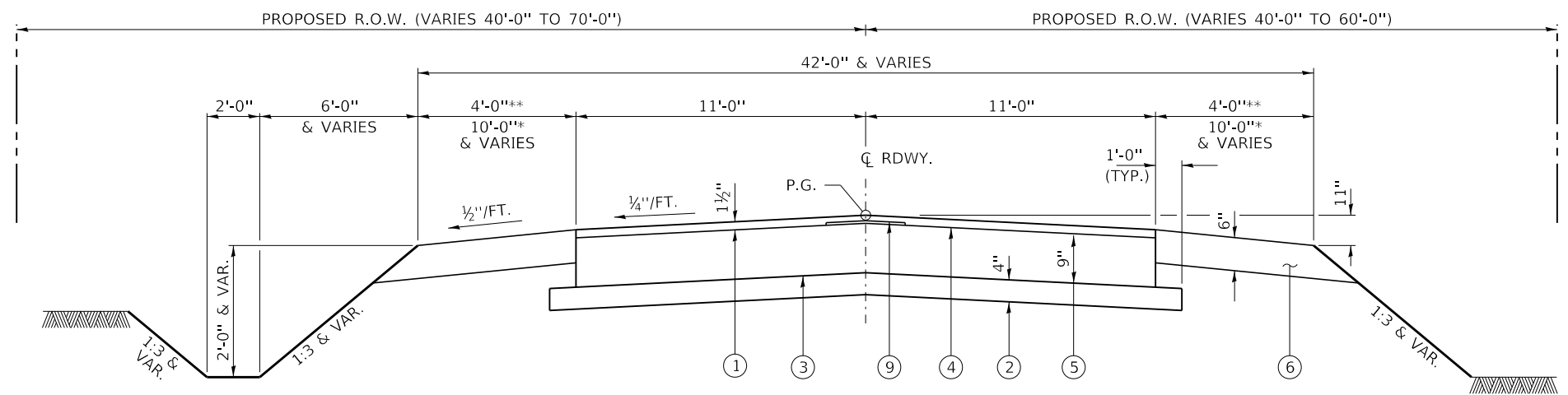
**EXISTING TYPICAL CROSS SECTION**

STA. 437+25 TO 438+25 AND  
STA. 444+18 TO 447+81



**PROPOSED TYPICAL CROSS SECTION**

STA. 444+18 TO STA. 445+00 LT.  
STA. 447+00 TO STA. 447+33 LT.  
STA. 444+66 TO STA. 445+00 RT.  
STA. 447+00 TO STA. 447+81 RT.



**PROPOSED TYPICAL CROSS SECTION**

\*STA. 437+25 TO 438+25 AND  
\*\*STA. 445+00 TO 447+00

TRANSITION FROM THE PROPOSED SURFACE TO THE EXISTING SURFACE FROM STA. 445+00 TO 445+50 AND STA. 446+50 TO STA. 447+00.

SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

FILE NAME = 180571-shi-typscsections.dgn	USER NAME = rmosick	DESIGNED - S.W.M.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 4/15/2021	CHECKED - S.W.M.	REVISED -
		DATE - 04/13/2021	REVISED -

**STATE OF ILLINOIS  
FAYETTE COUNTY HIGHWAY DEPARTMENT**

**TYPICAL CROSS SECTIONS**

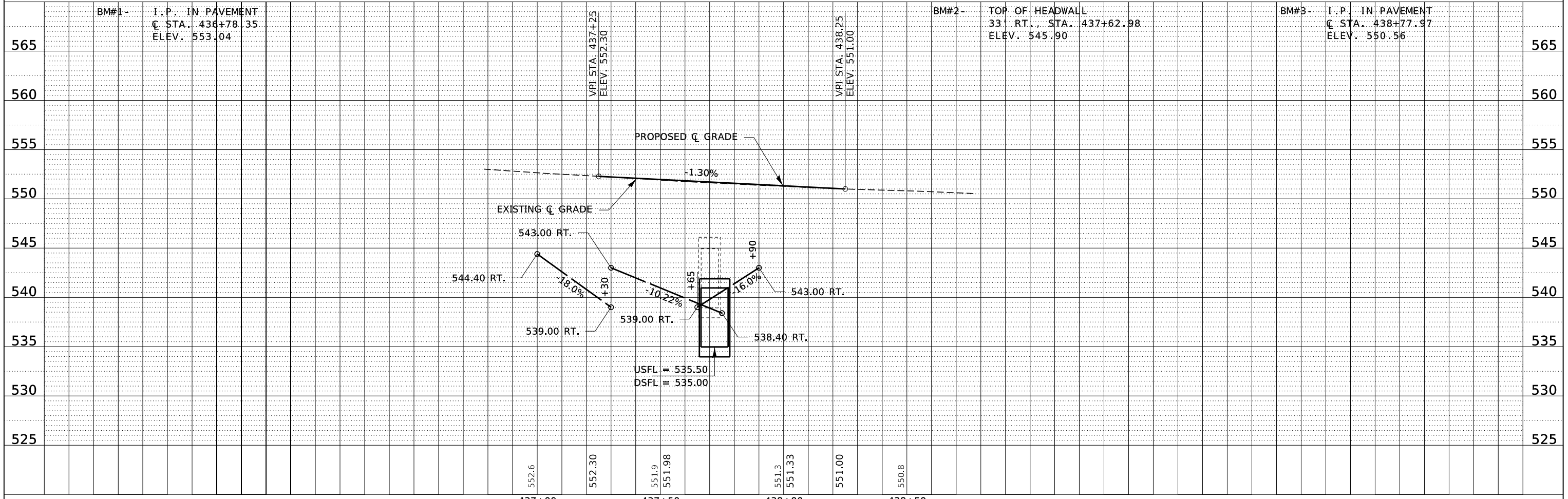
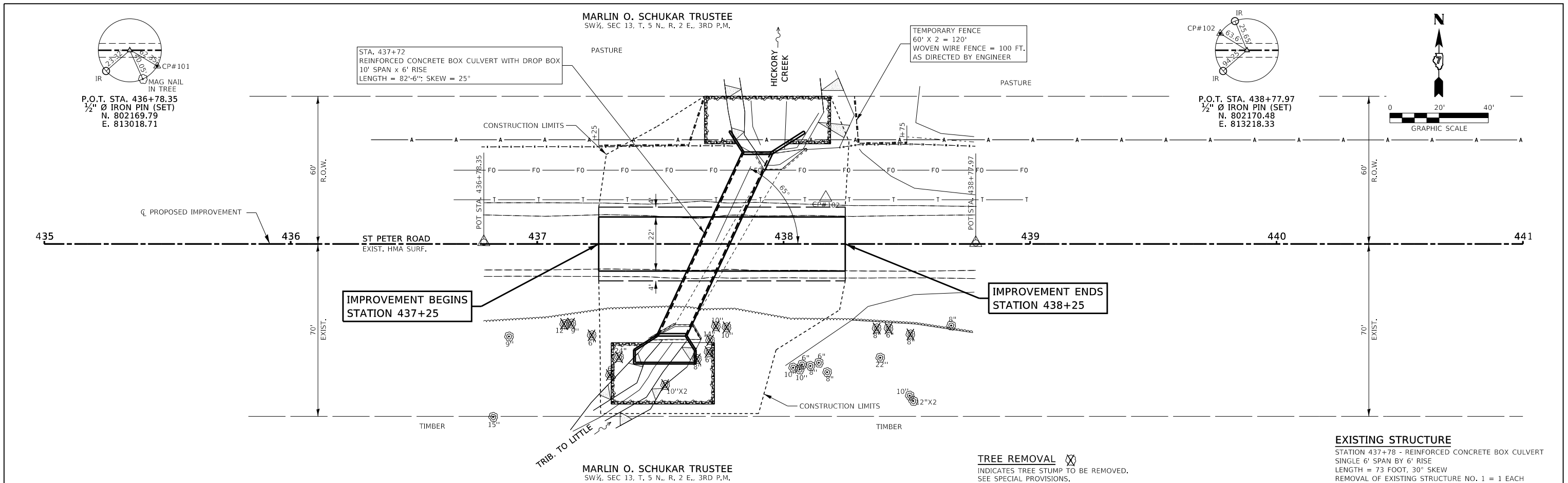
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	3
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
ILLINOIS FED. AID PROJECT OURL(348)				



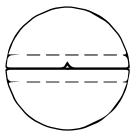
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BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY	
CHECKED	
FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES	
CHECKED	
B.M. NOTED	
STRUCTURE	
NOTATIONS	
CHRD	
NO.	

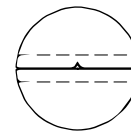


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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62777 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000969	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -			717	11-00120-01-DR	FAYETTE	38	4	
PLOT DATE = 4/15/2021	DATE - 04/13/2021	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 95897					
		REVISIONS				ILLINOIS FED. AID PROJECT OUF(348)					

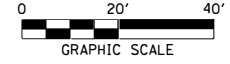




P.O.T. STA. 444+01.18  
 1/2" Ø IRON PIN (SET)  
 N. 802172.701  
 E. 813741.536

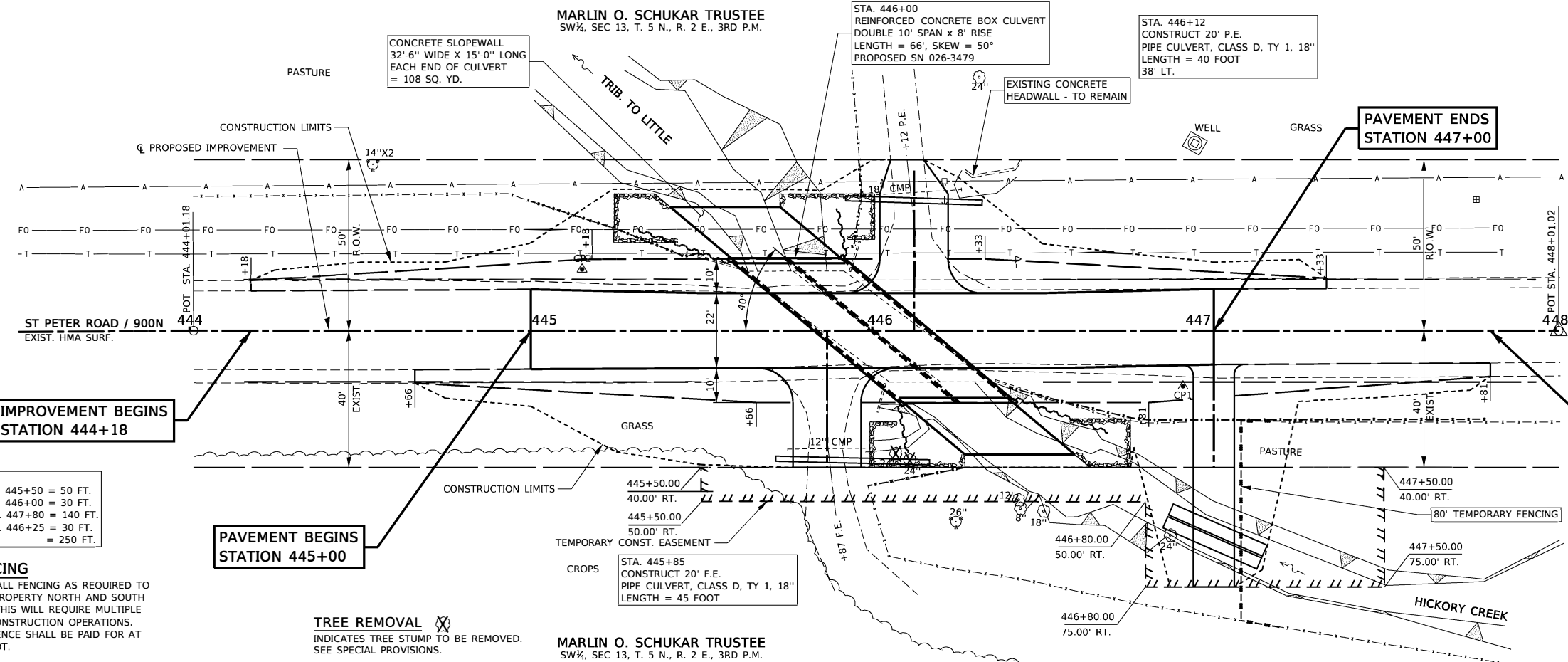


P.O.T. STA. 448+01.02  
 1/2" Ø IRON PIN (SET)  
 N. 802171.874  
 E. 814141.376



DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
DESIGNED	
NO.	

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
DESIGNED	
NO.	



**WOVEN WIRE FENCE**  
 LT. STA. 445+00 TO STA. 445+50 = 50 FT.  
 LT. STA. 445+90 TO STA. 446+00 = 30 FT.  
 RT. STA. 446+40 TO STA. 447+80 = 140 FT.  
 RT. STA. 446+80 TO STA. 446+25 = 30 FT.  
 TOTAL = 250 FT.

**TEMPORARY FENCING**  
 CONTRACTOR SHALL INSTALL FENCING AS REQUIRED TO CONTAIN LIVESTOCK ON PROPERTY NORTH AND SOUTH OF THE PROJECT LIMITS. THIS WILL REQUIRE MULTIPLE INSTALLATIONS AS PER CONSTRUCTION OPERATIONS. EACH INSTALLATION OF FENCE SHALL BE PAID FOR AT CONTRACT PRICE PER FOOT.

**PAVEMENT BEGINS STATION 445+00**

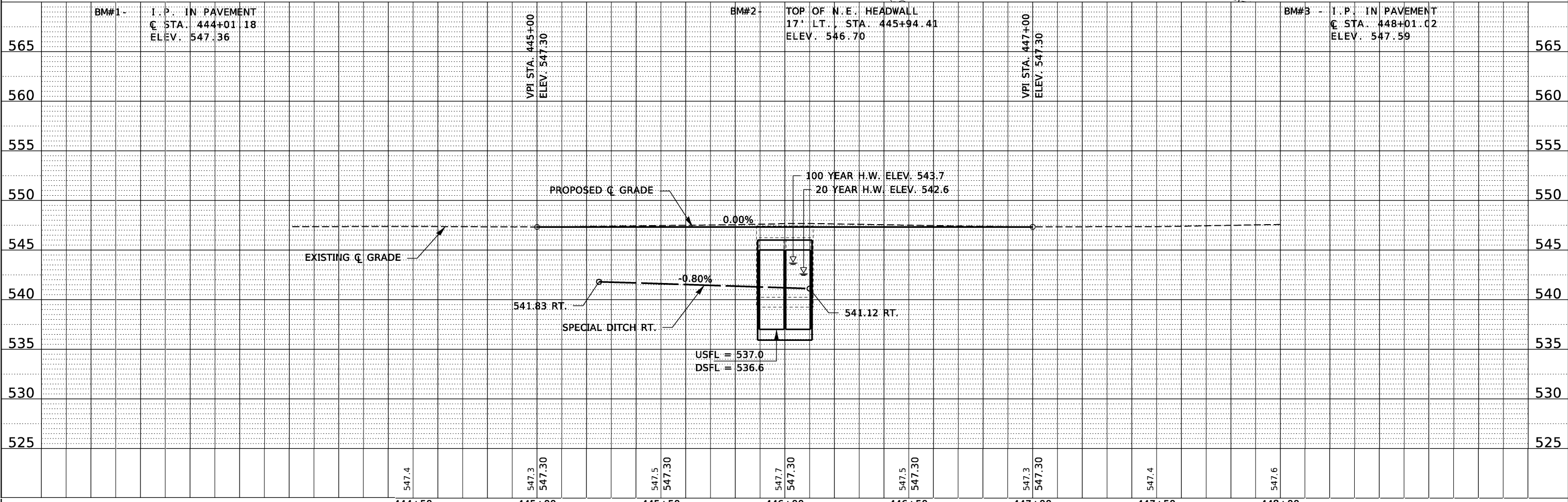
**PAVEMENT ENDS STATION 447+00**

**IMPROVEMENT ENDS STATION 447+81**

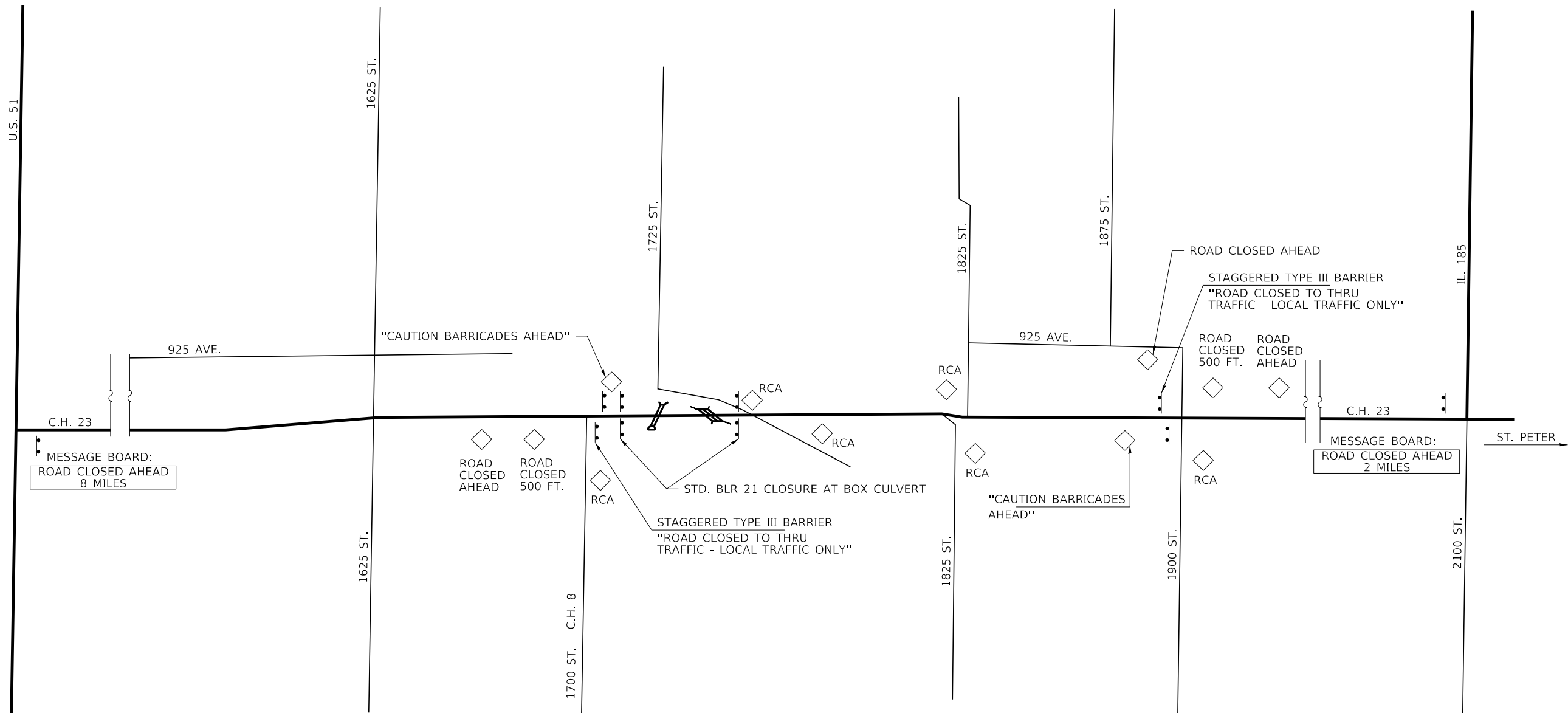
**TREE REMOVAL**  
 INDICATES TREE STUMP TO BE REMOVED. SEE SPECIAL PROVISIONS.

STA. 447+00  
 CONSTRUCT 12' F.E.  
 TEMPORARY PIPE CULVERTS  
 2 X 42" Ø - 30 FEET

**EXISTING STRUCTURE NO. 026-5028**  
 STATION 446+00 - REINFORCED CONCRETE BOX CULVERT  
 DOUBLE 9' SPAN X 6' RISE  
 LENGTH = 55 FOOT, 53° SKEW  
 REMOVAL OF EXISTING STRUCTURES NO. 2 = 1 EACH

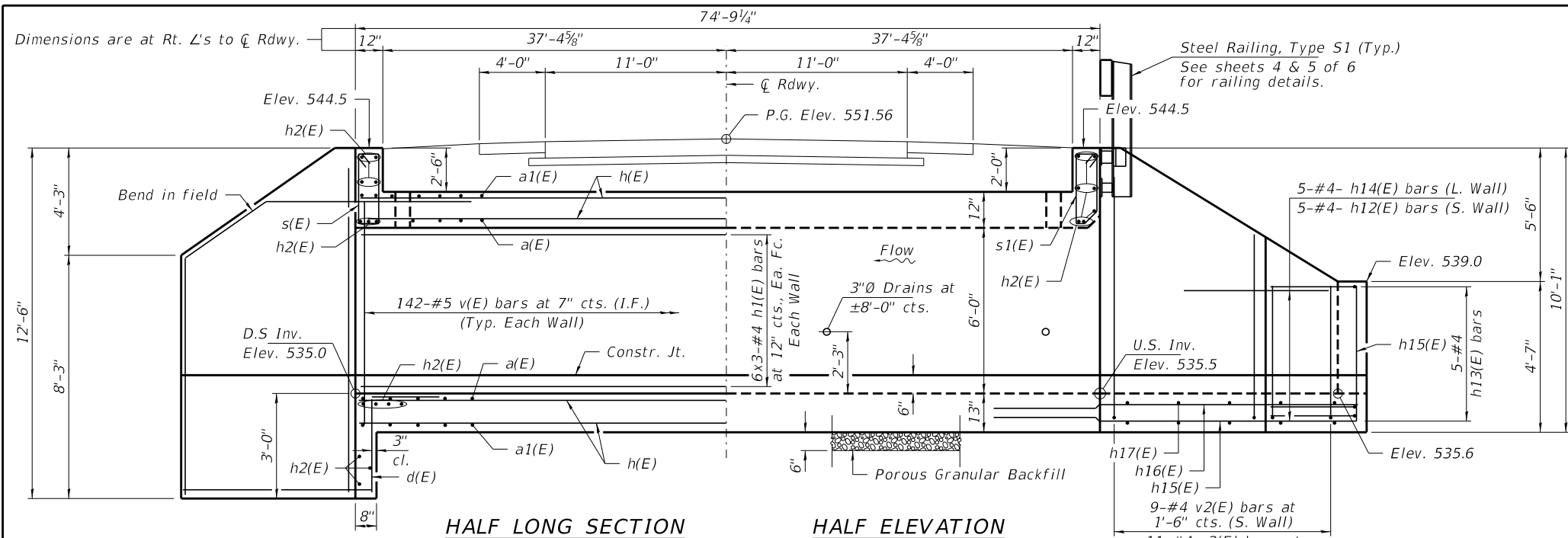


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DESIGNED BY - HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - T.W.K.	CHECKED - S.W.M.	REVISED -			717	11-00120-01-DR	FAYETTE	38	5
DESIGNED BY - HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - T.W.K.	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 95897				
DESIGNED BY - HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - T.W.K.	CHECKED - S.W.M.	REVISED -			ILLINOIS / FED. AID PROJECT OULF(348)				
SCALE: 20H:5V	SHEET NO. 2 OF 2 SHEETS	DATE = 04/13/2021	REVISED -	STA. 444+01.20 TO STA. 448+01.04						



**NOTE:**  
 CHANGEABLE MESSAGE BOARDS SHALL BE ERECTED TWO WEEKS PRIOR TO ROAD CLOSURE. THESE SHALL BE INSTALLED UNTIL CONSTRUCTION IS COMPLETE.

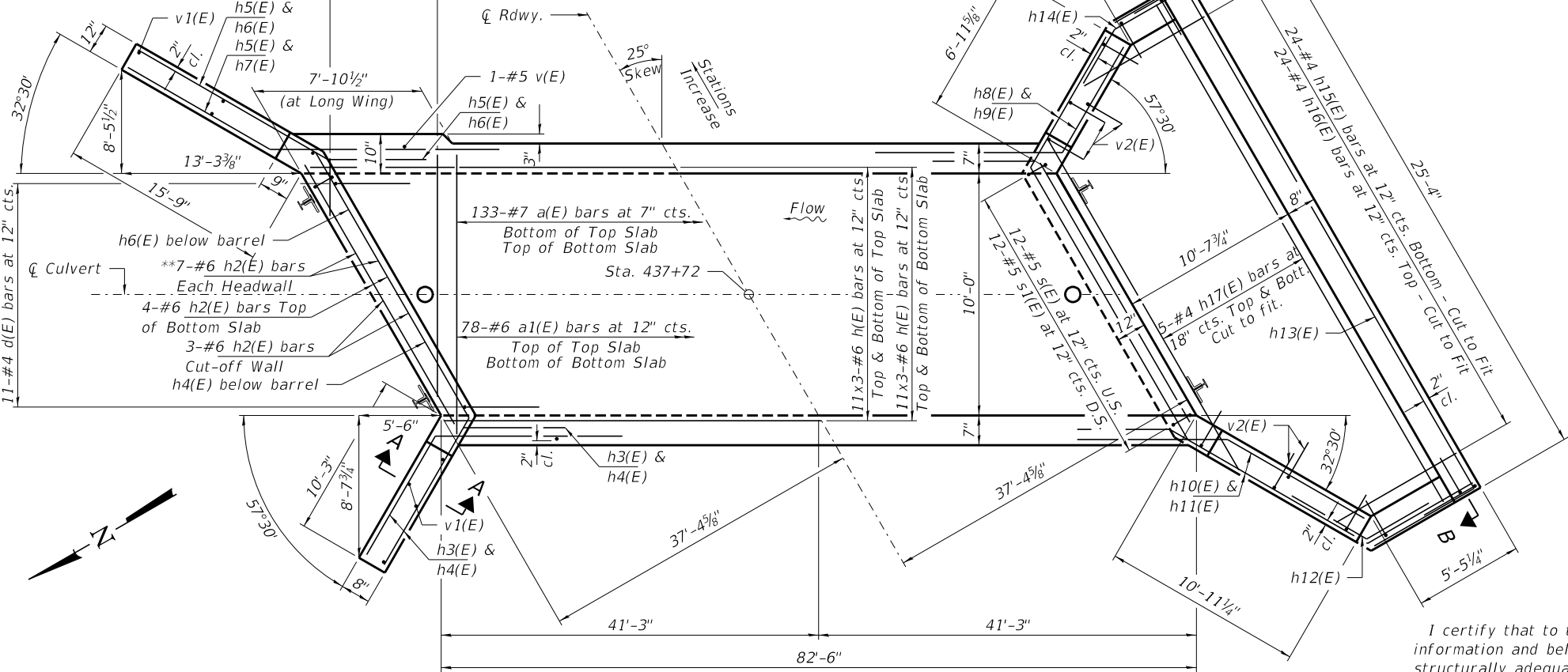
FILE NAME = 180571-shit-trafficcont.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>TRAFFIC CONTROL PLAN</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -		717	11-00120-01-DR	FAYETTE	38	6			
PLOT DATE = 4/15/2021	DATE - 04/13/2021	CHECKED - S.W.M.	REVISED -		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	ST. PETER ROAD / C.H. 23		
		REVISIONS									CONTRACT NO. 95897	



**HALF LONG SECTION**                      **HALF ELEVATION**

Dimensions are at Rt. L's to  $\bar{C}$  Roadway.

- \*7-#7 a(E) bars at 7" cts.  
Bott. of Top Slab & Top of Bott. Slab
- \*4-#6 a1(E) bars at 12" cts.  
Top of Top Slab & Bott. of Bott. Slab

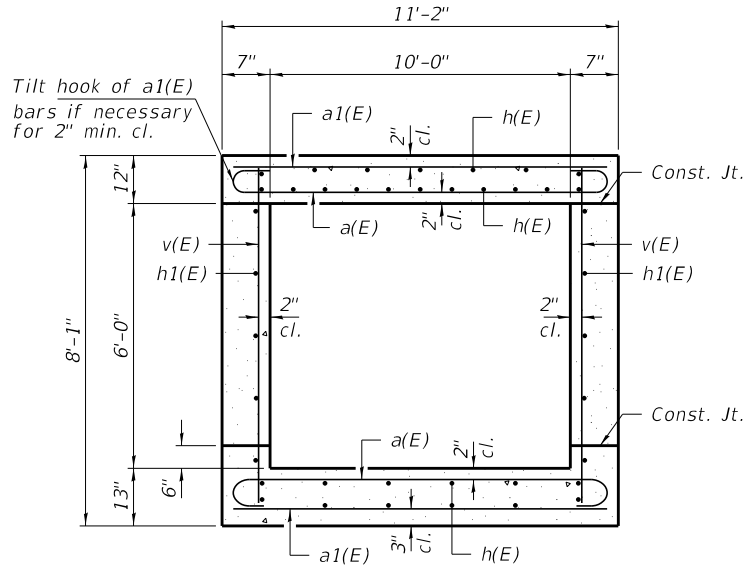


**SHOWING TOEWALL**

**SHOWING HEADWALL**

**PLAN**

\* a(E) bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.  
\*\* See Section thru headwalls Sheet 2 & 3 of 6.



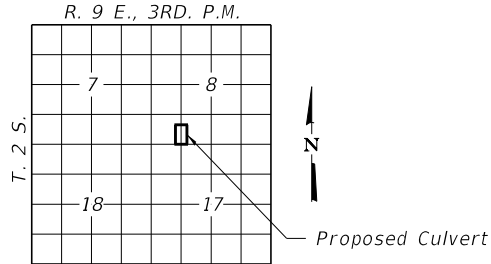
**SECTION THRU BARREL**

**NOTES**

Exposed edges shall be beveled  $\frac{3}{4}$ ".  
For backfilling and embankment, see Standard Specifications, except that Porous Granular Embankment shall be placed as shown in backfill detail for the full length of the culvert.  
Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.  
Excavation required to construct the culvert improvements and related items, shall be included in the cost of Concrete Box Culvert and will not be paid for separately.  
It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.  
All construction joints shall be bonded.  
Precast concrete box culverts will be allowed.  
All bars shall be epoxy coated.  
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

**INDEX OF STRUCTURE SHEETS**

- 1-4. Culvert Details
5. Steel Railing, Type S-1
6. Boring



**LOCATION SKETCH**

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

*Steven W. Megginson* 04/13/2021  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2022

**MIN. BAR LAP**

- #4 = 2'-5"
- #6 = 4'-10"
- #7 = 6'-3"

**DESIGN STRESSES**

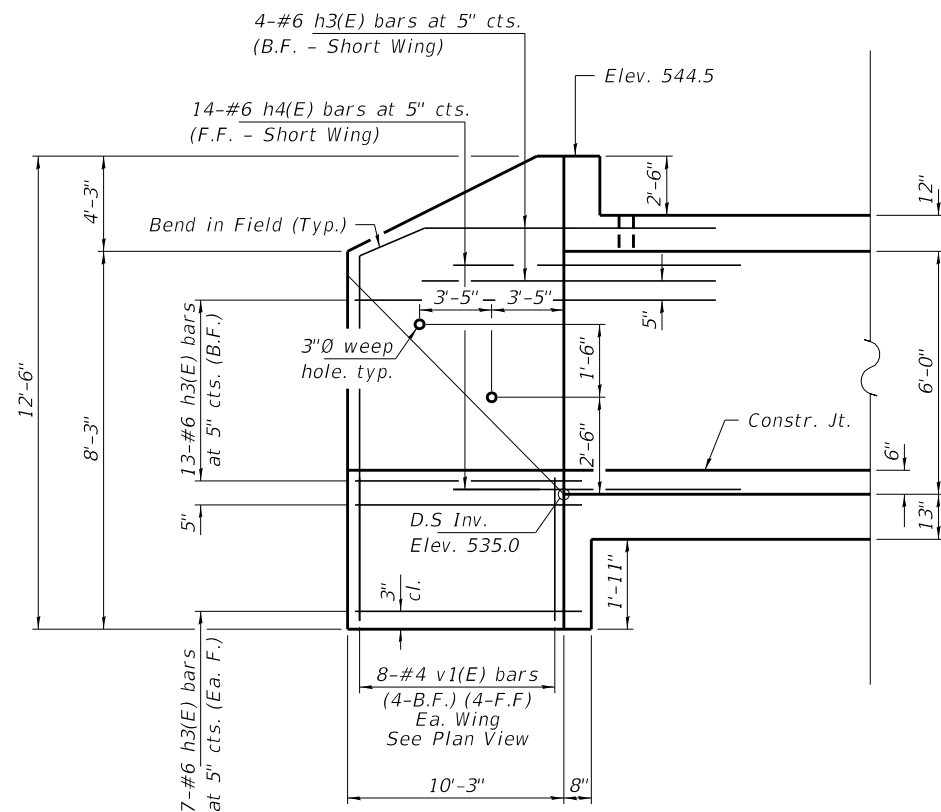
f'c = 3,500 psi  
fy = 60,000 psi (Reinf.)

**LOADING HL-93**

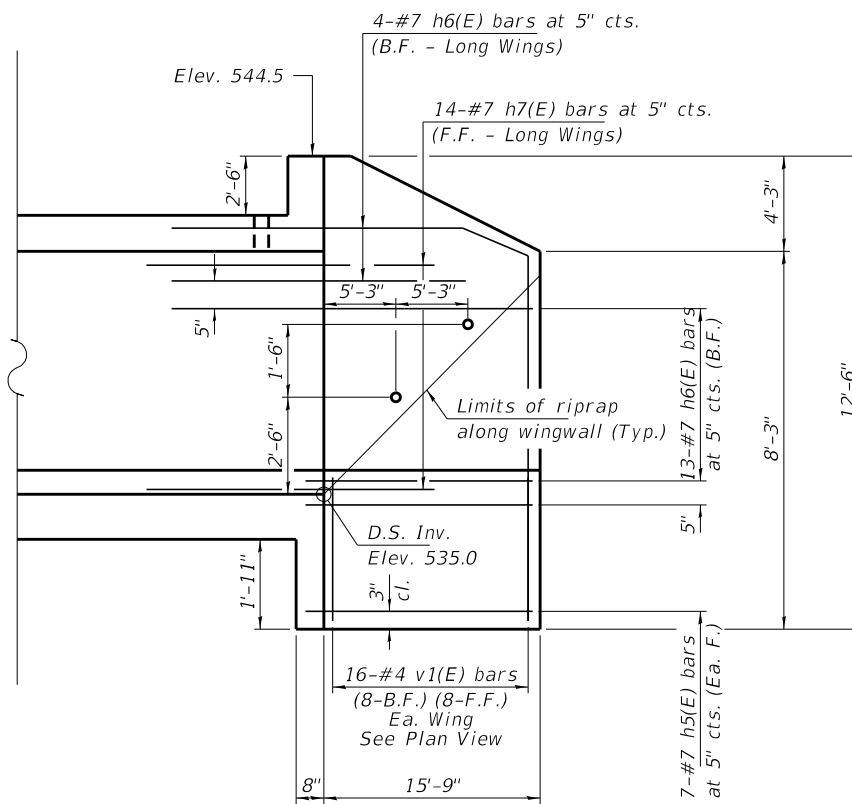
Design Specifications: 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all interims.

FILE NAME = 180571-shi-culvert-437.dgn	USER NAME = rthosck	DESIGNED - R.D.H.	REVISED -	<b>STATE OF ILLINOIS FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>CULVERT DETAILS CULVERT STATION 437+72</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			717	11-00120-01-DR	FAYETTE	38	7
PLOT DATE = 4/15/2021		DRAWN - R.D.H.	REVISED -			ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 1 OF 6 SHEETS		ILLINOIS FED. AID PROJECT OULF(348)		

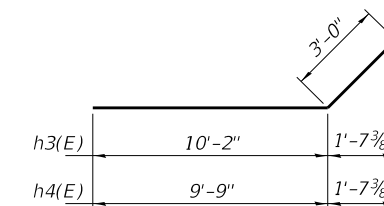




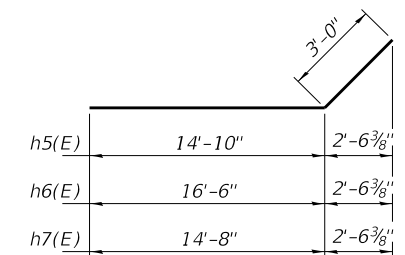
**NORTHWEST WINGWALL ELEV. - (SHORT WING)**



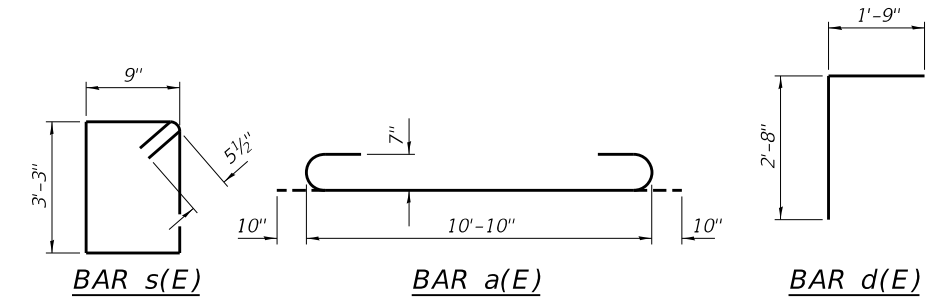
**NORTHEAST WINGWALL ELEV. - (LONG WING)**



**BARS h3(E) & h4(E)**



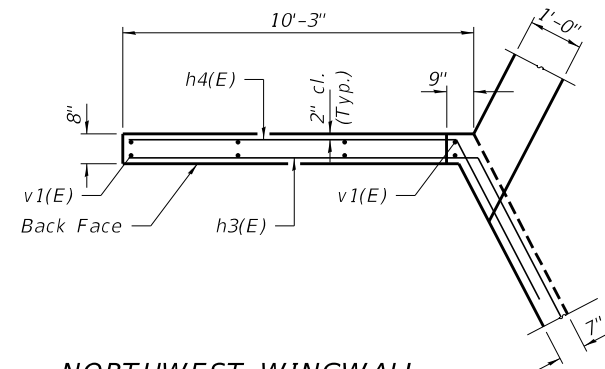
**BARS h5(E), h6(E) & h7(E)**



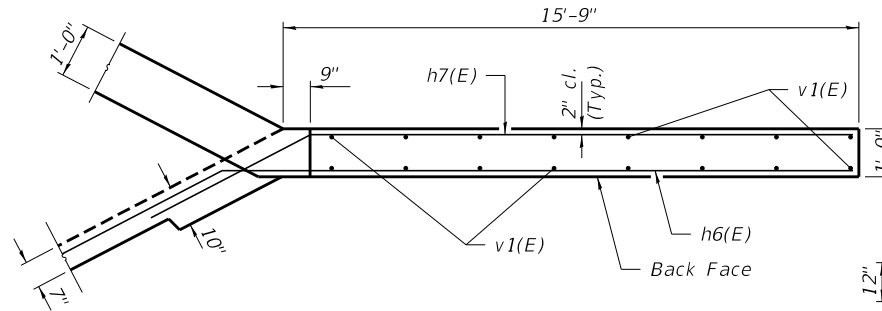
**BAR s(E)**

**BAR a(E)**

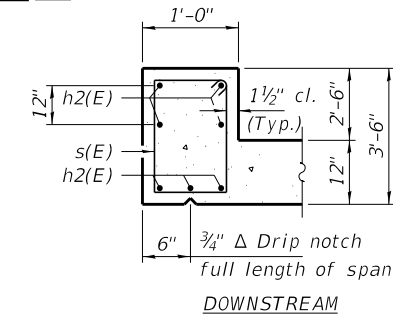
**BAR d(E)**



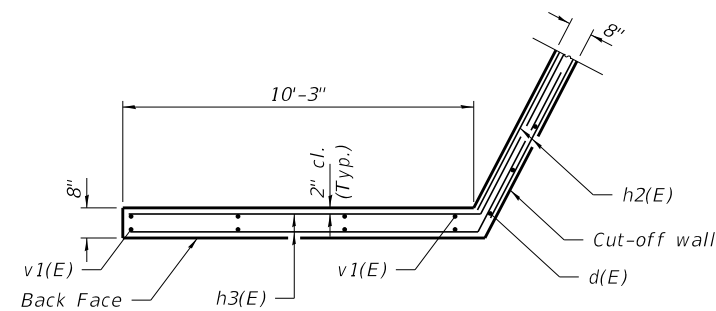
**NORTHWEST WINGWALL UPPER PLAN - (SHORT WING)**



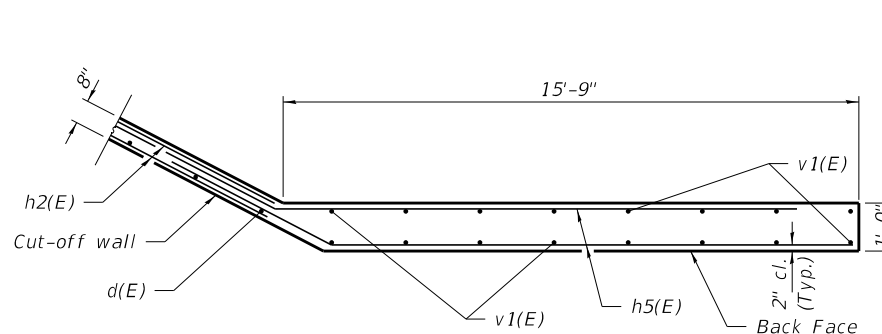
**NORTHEAST WINGWALL UPPER PLAN - (LONG WING)**



**SECTION THRU HEADWALL**



**NORTHWEST WINGWALL LOWER PLAN - (SHORT WING)**



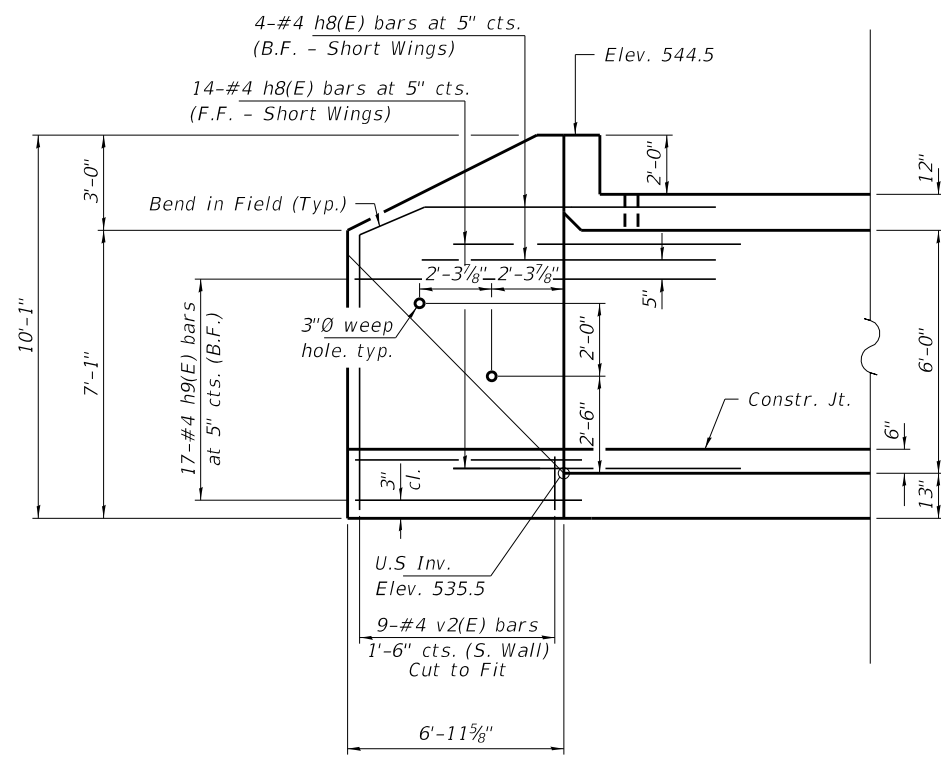
**NORTHEAST WINGWALL LOWER PLAN - (LONG WING)**

**NOTES**

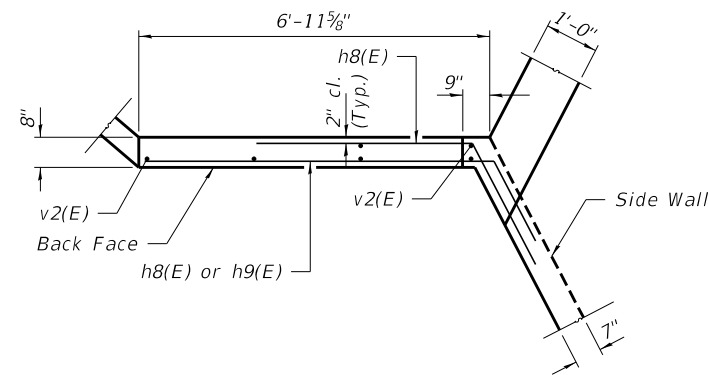
1. B.F. denotes Back Face; F. F. denotes Front Face; Ea. F. denotes Each Face.

**BILL OF MATERIAL**

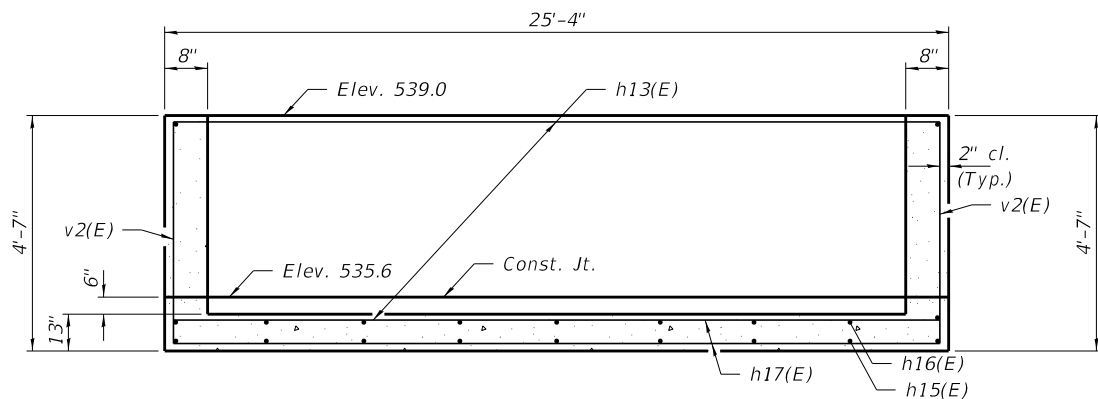
Bar	No.	Size	Length	Shape
a(E)	280	#7	12'-6"	
a1(E)	164	#6	10'-10"	
d(E)	11	#4	4'-5"	
h(E)	132	#6	30'-8"	
h1(E)	36	#4	29'-0"	
h2(E)	21	#6	11'-4"	
h3(E)	31	#6	13'-2"	
h4(E)	14	#6	12'-9"	
h5(E)	14	#7	17'-10"	
h6(E)	17	#7	19'-6"	
h7(E)	14	#7	17'-8"	
h8(E)	18	#4	8'-0"	
h9(E)	17	#4	9'-10"	
h10(E)	18	#6	8'-0"	
h11(E)	15	#6	14'-2"	
h12(E)	5	#4	4'-0"	
h13(E)	5	#4	35'-6"	
h14(E)	5	#4	4'-0"	
h15(E)	24	#4	17'-10"	
h16(E)	24	#4	14'-0"	
h17(E)	10	#4	25'-0"	
s(E)	12	#4	8'-11"	
s1(E)	12	#4	7'-9"	
v(E)	285	#5	7'-8"	
v1(E)	24	#4	12'-2"	
v2(E)	20	#4	7'-4"	
Porous Granular Backfill		Ton	50	
Stone Dumped Riprap, Class A4		Ton	125	
Reinf. Bars, Epoxy Coated		Pound	23,840	
Name Plates		Each	1	
Concrete Box Culverts		Cu. Yd.	154.7	
Membrane Waterproofing System for Buried Struct.		Sq. Yd.	128	
Porous Granular Embankment, Special		Ton	250	



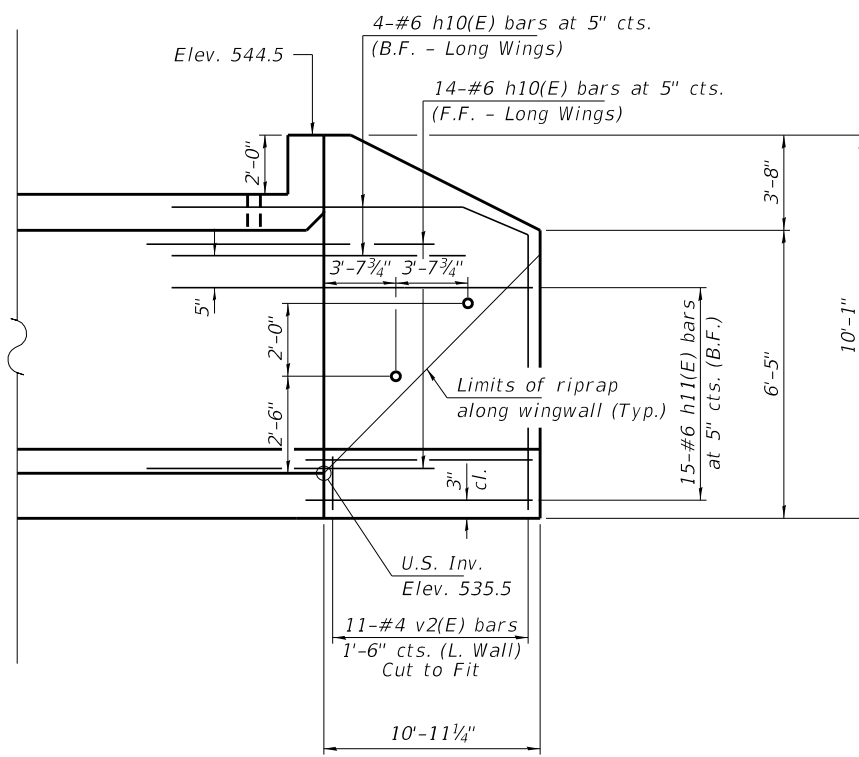
**SOUTHEAST WINGWALL ELEV. - (SHORT WING)**



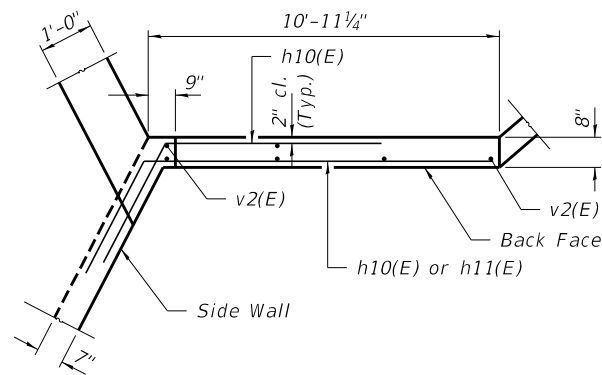
**SOUTHEAST WINGWALL UPPER PLAN - (SHORT WING)**



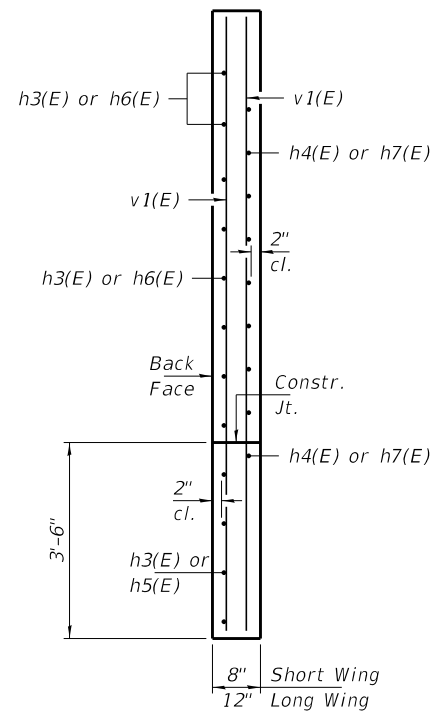
**SECTION B-B**  
Dimensions are at Rt. L's



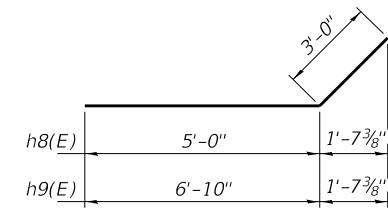
**SOUTHWEST WINGWALL ELEV. - (LONG WING)**



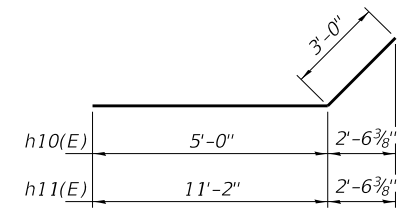
**SOUTHWEST WINGWALL UPPER PLAN - (LONG WING)**



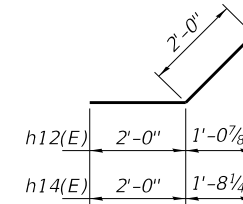
**SECTION A-A**



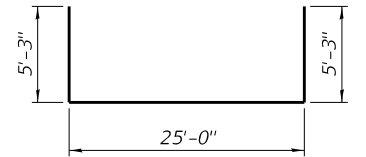
**BARS h8(E) & h9(E)**



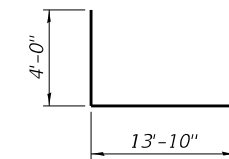
**BARS h10(E) & h11(E)**



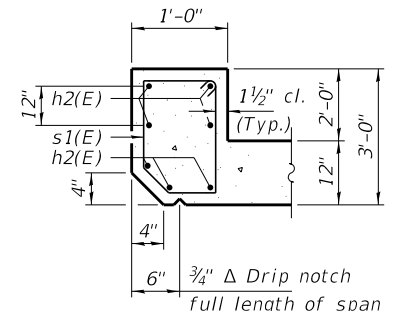
**BARS h12(E) & h14(E)**



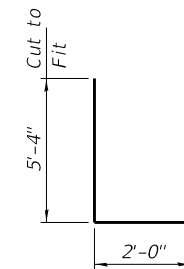
**BARS h13(E)**



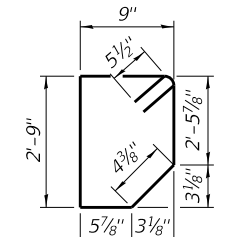
**BAR h15(E)**



**SECTION THRU HEADWALL**



**BAR v2(E)**



**BAR s1(E)**

**NOTES**

1. For Bill of Material and reinforcement bars summary see sheet 2 of 6.
2. B.F. denotes Back Face; F. F. denotes Front Face; Ea. F. denotes Each Face.

FILE NAME = 180571-shi-culvert-437.dgn	USER NAME = rtholck	DESIGNED - R.D.H.	REVISED -
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 4/15/2021	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

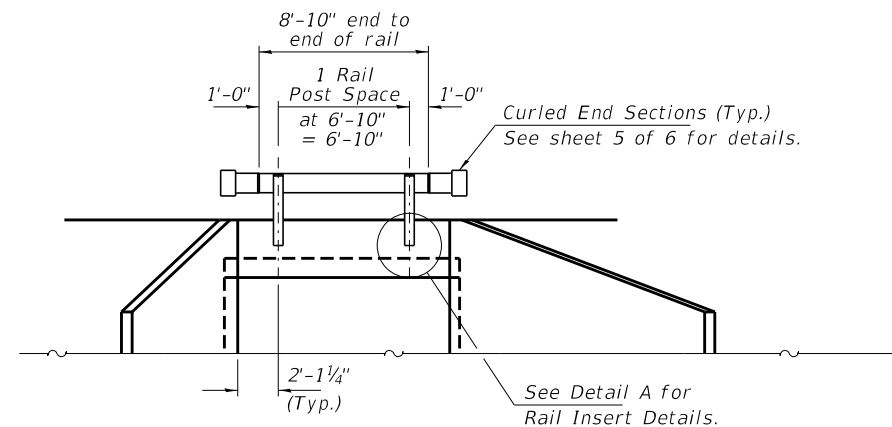
**STATE OF ILLINOIS**  
**FAYETTE COUNTY HIGHWAY DEPARTMENT**

**CULVERT DETAILS**  
**CULVERT STATION 437+72**

SHEET NO. 3 OF 6 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	9
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		

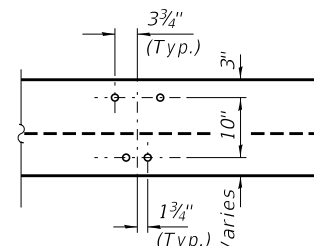
ILLINOIS FED. AID PROJECT OULF(348)



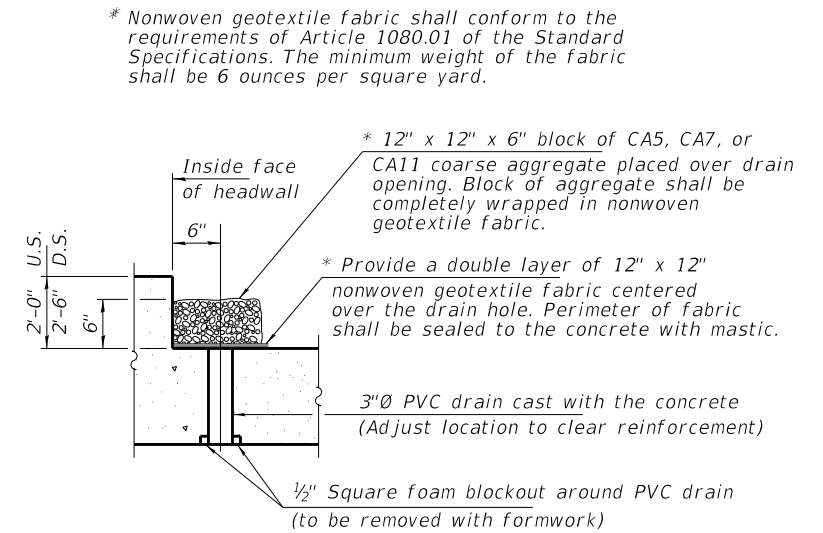
**ELEVATION**

Showing Rail Post Spaces

See sheet 5 of 6 for Railing Details.



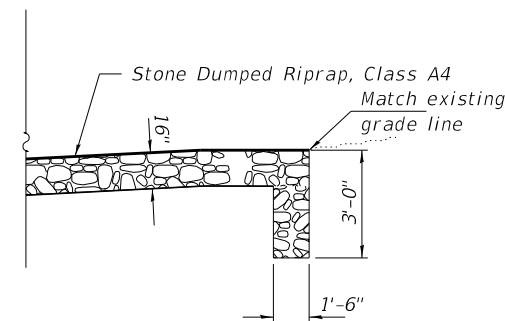
**DETAIL A**



**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 Concrete Box Culverts.)

Drains shall be installed in each span near head walls. See Plan view

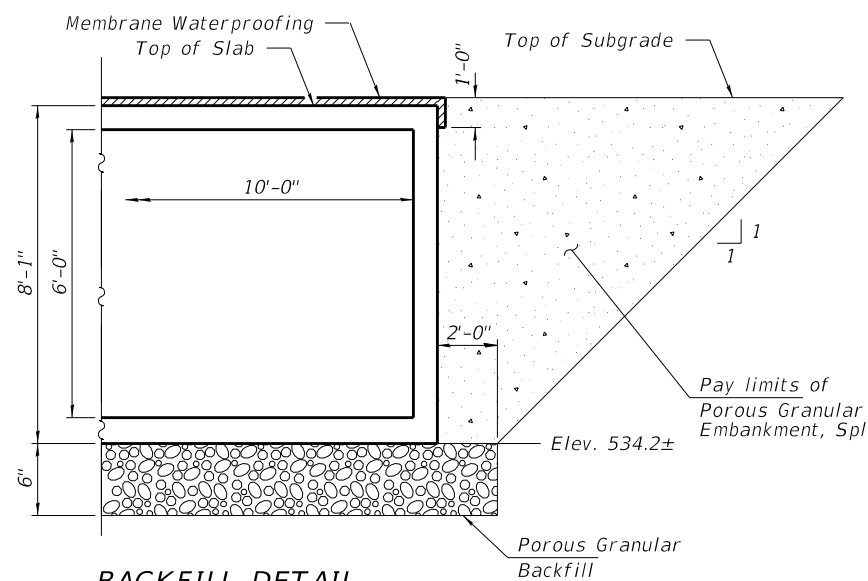


**SECTION C-C**

STATION 437+72  
 BUILT 202\_ BY  
 FAYETTE COUNTY  
 SEC. 11-00120-01-DR  
 ST. PETER ROAD / C.H. 23  
 LOADING HL-93

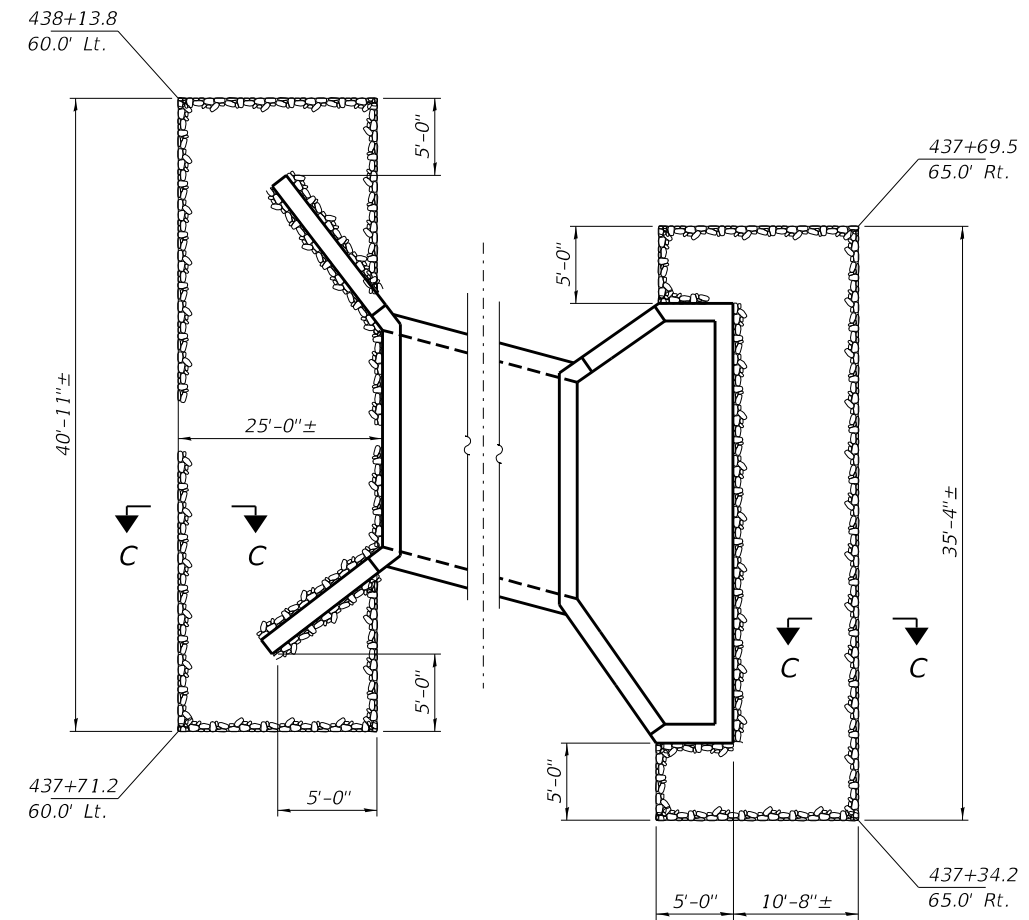
**NAME PLATE**

See Std. 515001

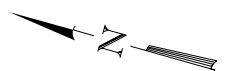


**BACKFILL DETAIL**

P.G.E to extend the full length of culvert and wings. 18" earth cap to be placed at end of wings to cover the P.G.E.



**RIPRAP LAYOUT DETAIL**



FILE NAME = 180571-shi-culvert-437.dgn	USER NAME = rthosick	DESIGNED - R.D.H.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
PLOT DATE = 4/15/2021		DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

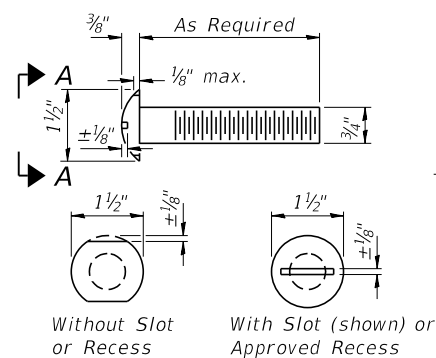
CULVERT DETAILS  
 CULVERT STATION 437+72

SHEET NO. 4 OF 6 SHEETS

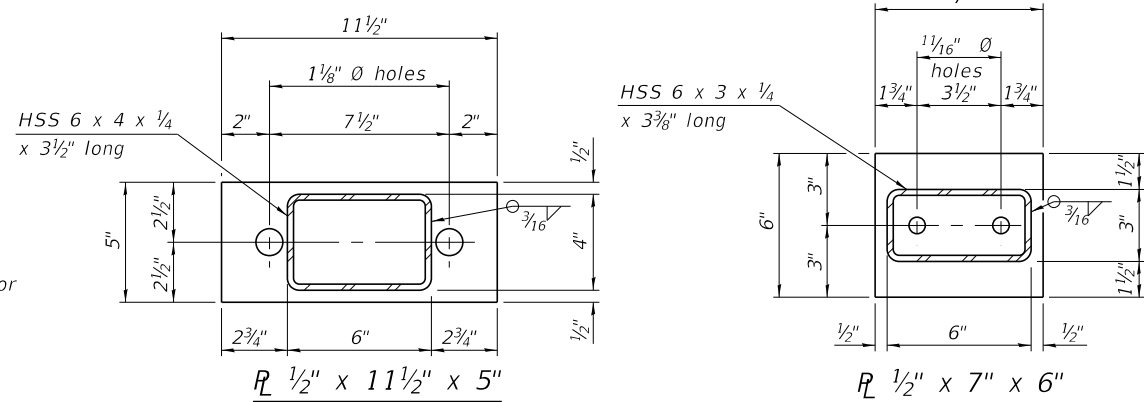
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	10
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	

ILLINOIS FED. AID PROJECT OULF(348)

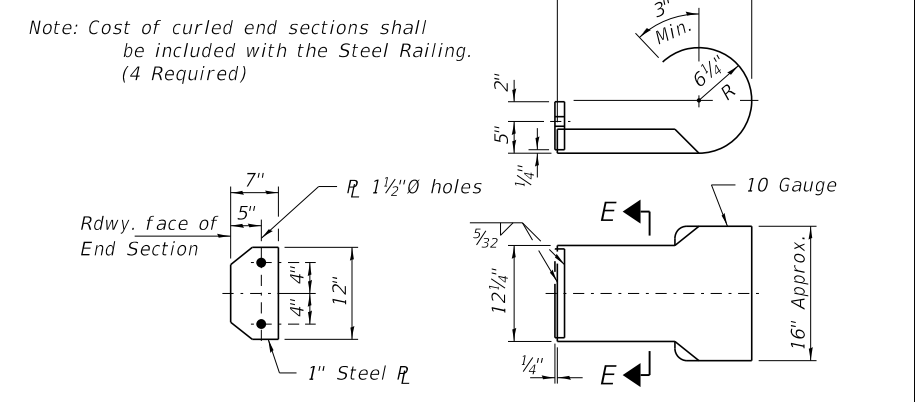




**VIEW A-A**  
**ROUND HEAD BOLT**

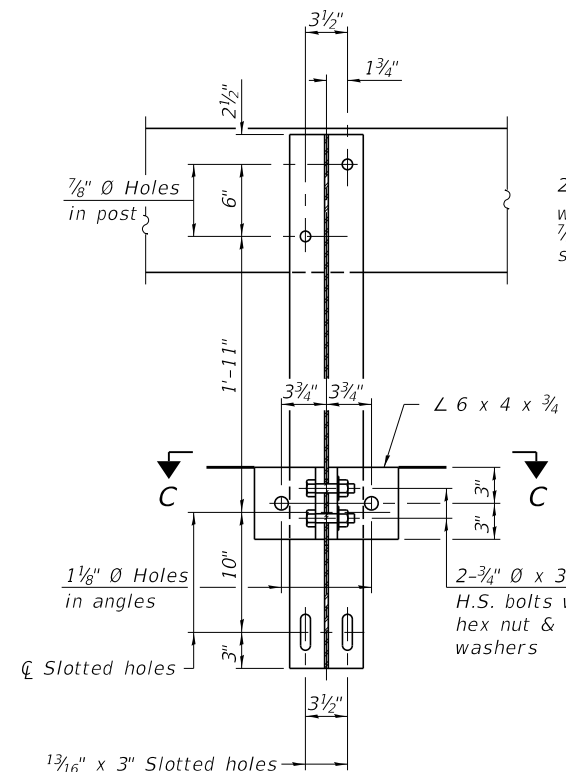


**SECTION B-B**  
**SECTION AT RAIL SPLICE**

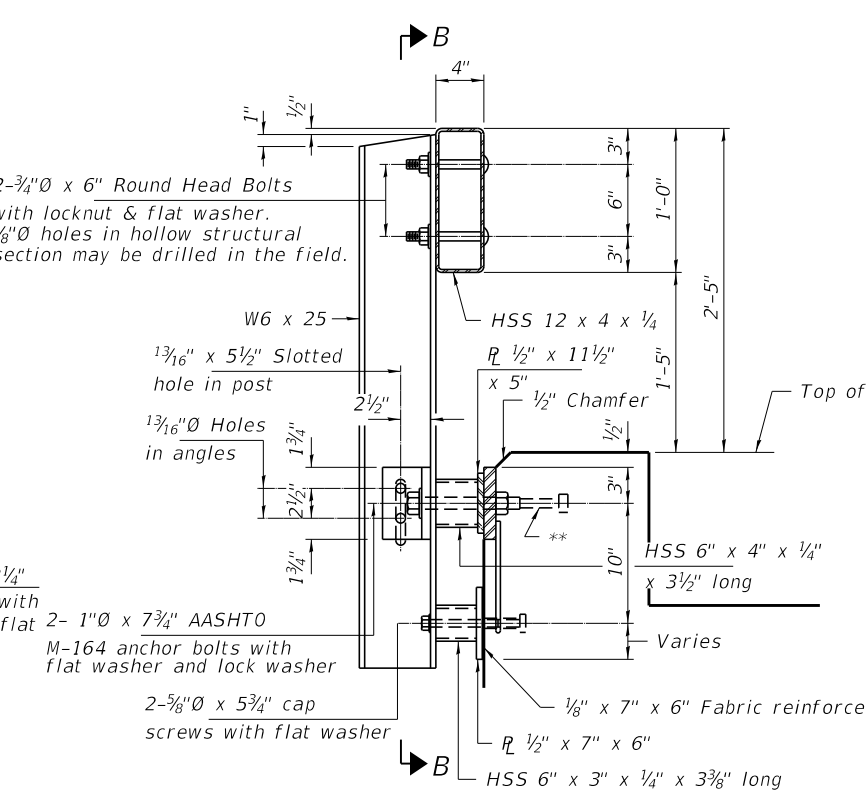


**SECTION E-E**  
**CURLED END SECTION DETAILS**

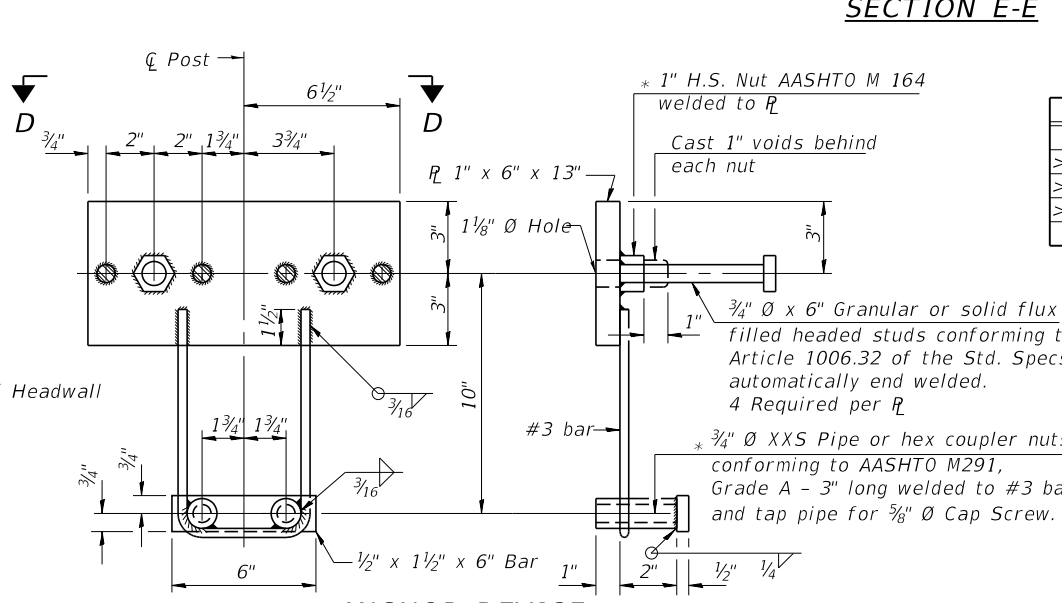
Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)



**SECTION C-C**



**SECTION AT RAILING POST**



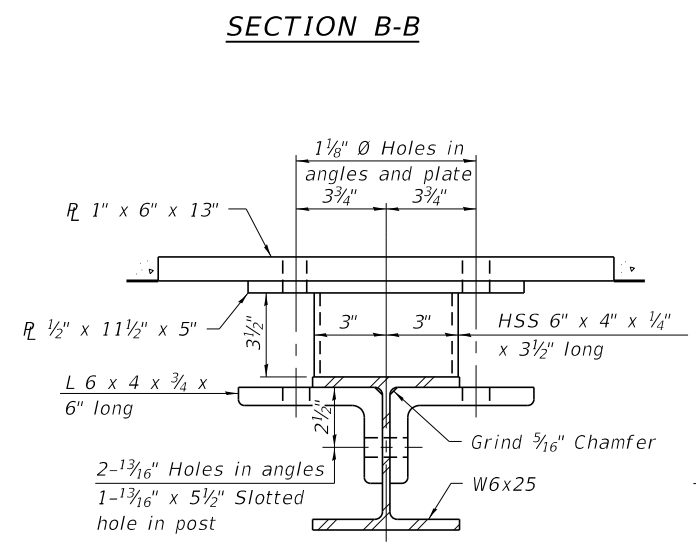
**ANCHOR DEVICE**

**SPLICE DIMENSIONS**

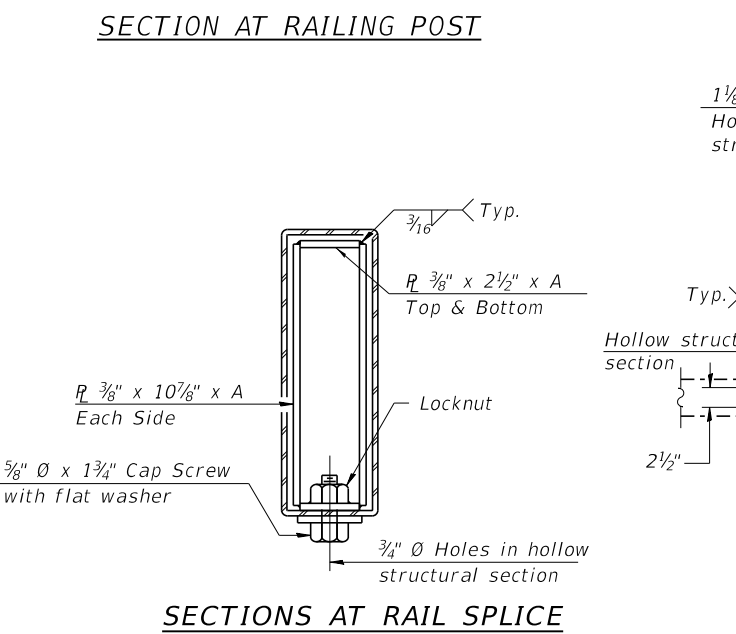
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

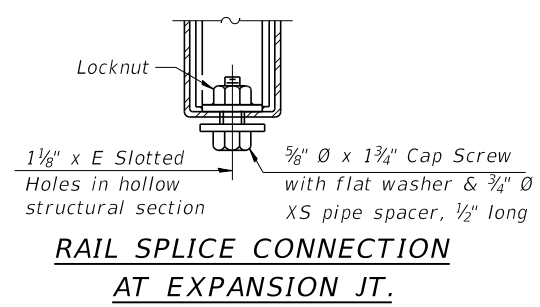
Notes:  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.  
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



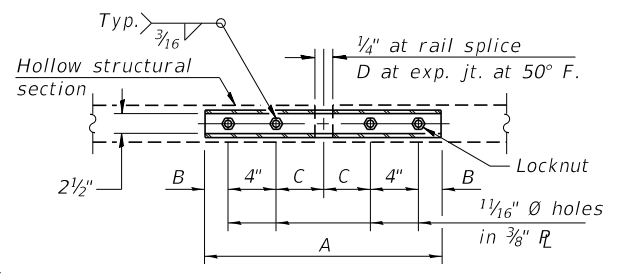
**SECTION C-C**



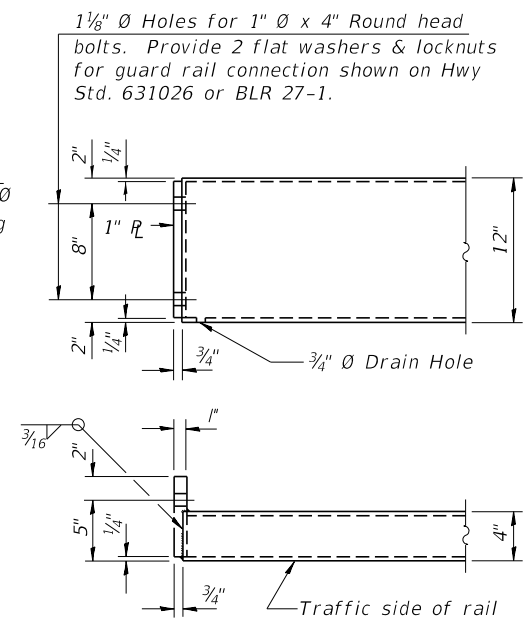
**SECTIONS AT RAIL SPLICE**



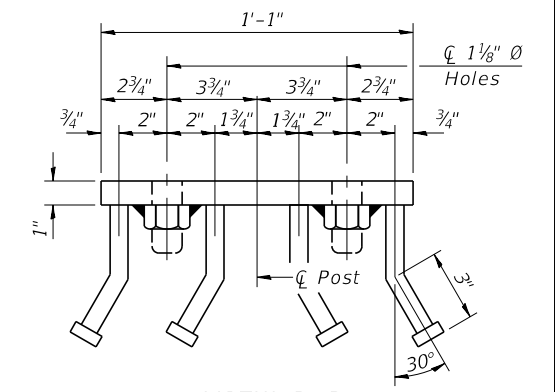
**RAIL SPLICE CONNECTION AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R TYPICAL**



**END OF RAIL DETAILS**



**VIEW D-D**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	18
Terminal Marker - Direct Applied	Each	4

R-23A 2-17-2017 (10'-9" Maximum Post Spacing)

FILE NAME	USER NAME	DESIGNED	REVISIONS
180571-shi-culvert-437.dgn	rthosck	R.D.H.	-
		S.W.M.	-
		R.D.H.	-
		S.W.M.	-

**STATE OF ILLINOIS**  
**FAYETTE COUNTY HIGHWAY DEPARTMENT**

**STEEL RAILING, TYPE S-1**  
**CULVERT STATION 437+72**

SHEET NO. 5 OF 6 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	11
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		

ILLINOIS FED. AID PROJECT OULF(348)

<b>NOBLE</b>		<b>BORING No. B-2</b>		water level reading					
<b>ENGINEERING CONSULTANTS</b>		County: Fayette, IL	Sheet No. 1 of 2	1st encounter: 10'					
Client: HLR		Weather: P. Sunny	Temperature: 70's	<b>water level reading</b>					
Driller: Noble Engineering Consultants		Date Start: 10-30-18	Surface Elevation: 100**	@completion	Dry Cave				
Location: 11-00120-01-DR Sta. 437+70		Date Finished: 10-30-18	Driller: Tony Schocker	Backfill:	Soil cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	USC Class.	Elev.**
1							0.0'-0.5' Crushed rock with clay-FILL		99
2	SS-1	1.0'-2.5'	8	9-4-4	30		0.5'-10.0' Silt, Clay, Etc. FILL	FILL	98
3									97
4	SS-2	3.5'-5.0'	7	3-3-4	50			FILL	96
5									95
6	SS-3	6.0'-7.5'	6	2-3-3	80			FILL	94
7									93
8									92
9	SS-4	8.5'-10.0'	6	2-2-4	100			FILL	91
10									90
11									89
12									88
13									87
14	SS-5	13.5'-15.0'	8	2-3-5	100		10.0'-16.0' SILTY FINE TO MEDIUM SAND, trace to some gravel, loose, saturated, brown	SM	86
15									85
16									84
17									83
18									82
19	SS-6	18.5'-20.0'	56	12-21-34	100	3.0		CH	81
20									80
21									79
22									78
23									77
24	SS-7	23.5'-25.0'	22	10-10-12	100	2.9	16.0'-35.0' CLAY, trace to some sand, trace gravel, occ. wet sand seams, very stiff, gray	CH	76
25									75
26									74
27									73
28									72
29									71
30	SS-8	28.5'-30.0'	21	10-10-11	100	4.2		CH	70
Drilling Method: HSA (2-1/4" id)		comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder					
Depth: 0' to 50.0'				** ground surface elevation at boring location is estimated from bridge deck 100.0 and is not surveyed					
Drill Rig: Mobile B-47				** ground surface elevation at boring location is estimated and is not surveyed					
Sampling: split-spoon (SS)									

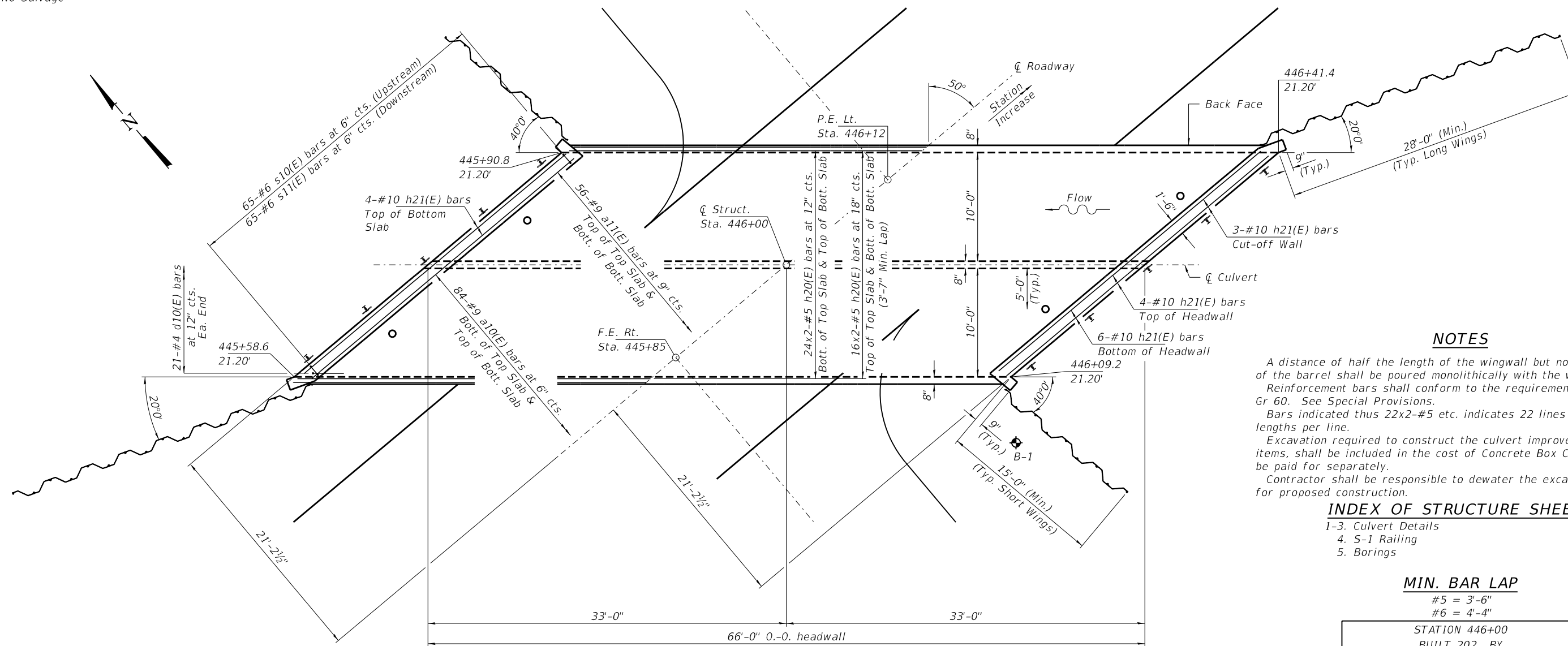
<b>NOBLE</b>		<b>BORING No. B-2</b>		water level reading					
<b>ENGINEERING CONSULTANTS</b>		County: Fayette, IL	Sheet No. 2 of 2	1st encounter: 10'					
Client: HLR		Weather: P. Sunny	Temperature: 70's	<b>water level reading</b>					
Driller: Noble Engineering Consultants		Date Start: 10-30-18	Surface Elevation: ~100	@completion	Dry Cave				
Location: 11-00120-01-DR Sta. 437+70		Date Finished: 10-30-18	Driller: Tony Schocker	Backfill:	Soil cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	USC Class.	Elev.**
31									69
32									68
33									67
34	SS-9	33.5'-35.0'	25	9-10-15	100	3.2	16.0'-35.0' CLAY, trace to some sand, trace gravel, occ. wet sand seams, very stiff, gray	CH	66
35									65
36									64
37									63
38									62
39	SS-10	38.5'-40.0'	29	8-12-17	100	4.1		CL-ML	61
40									60
41									59
42									58
43									57
44	SS-11	43.5'-45.0'	29	10-12-17	100	4.2	35.0'-50.0' CLAYEY SILT (TILL), trace to some sand, trace to some gravel, occ. wet sand seams, hard, gray	CL-ML	56
45									55
46									54
47									53
48									52
49	SS-12	48.5'-50.0'	30	12-14-20	100	4.4		CL-ML	51
50									50
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
Drilling Method: HSA (2-1/4" id)		comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder					
Depth: 0' to 50'				** ground surface elevation at boring location is estimated and is not surveyed					
Drill Rig: Mobile B-47				** ground surface elevation at boring location is estimated and is not surveyed					
Sampling: split-spoon (SS)									

BORING-2

EXISTING STRUCTURE NO. 026-5028: Sta. 446+00 - Double 9' x 6' Reinforced Concrete Box Culvert.  
Length = 55 Ft., 53° Skew.

Structure closed to traffic during construction.

No Salvage



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

WATERWAY INFORMATION

Drainage Area = 2.0 Sq. Mi. Existing Low Grade Elev. 547.33 at Sta. 445+00  
Proposed Low Grade Elev. 547.33 at Sta. 445+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Ten-Year	10	645	50	100	542.1	1.7	0.0	543.8	542.1	
Design	20	820	60	110	542.6	2.2	0.0	544.8	542.6	
Base	100	1230	80	130	543.7	3.1	0.7	546.8	544.4	
Scour Check	200	1420	90	140	544.1	3.0	1.2	547.1	545.3	
Max. Calc.	500	1670	100	150	544.6	2.8	1.9	547.4	546.5	

10 Year Velocity through Existing Bridge = 12.9 fps      10 Year Velocity through Proposed Bridge = 6.5 fps

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all interims.

LOADING HL-93

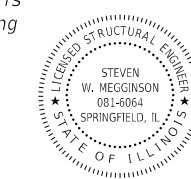
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

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

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

*Steven W. Megginson* 04/13/2021  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2022

NOTES

- A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Bars indicated thus 22x2-#5 etc. indicates 22 lines of bars with 2 lengths per line.
- Excavation required to construct the culvert improvements and related items, shall be included in the cost of Concrete Box Culvert and will not be paid for separately.
- Contractor shall be responsible to dewater the excavation as needed for proposed construction.

INDEX OF STRUCTURE SHEETS

- 1-3. Culvert Details
- 4. S-1 Railing
- 5. Borings

MIN. BAR LAP

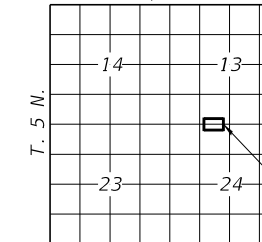
- #5 = 3'-6"
- #6 = 4'-4"

STATION 446+00  
BUILT 202 BY  
FAYETTE COUNTY  
SEC. 11-00120-01-DR  
F.A.S. 171 / C.H. 23  
STR. NO. 026-3479  
LOADING HL-93

NAME PLATE

See Std. 515001

R. 2 E., 3RD. P.M.



Proposed Bridge  
SN 026-3479

LOCATION SKETCH

FILE NAME = 180571-shi-culvert-446.dgn	USER NAME = rtholck	DESIGNED - R.P.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
PLOT DATE = 4/15/2021		DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS  
FAYETTE COUNTY HIGHWAY DEPARTMENT

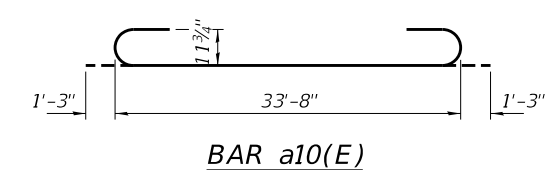
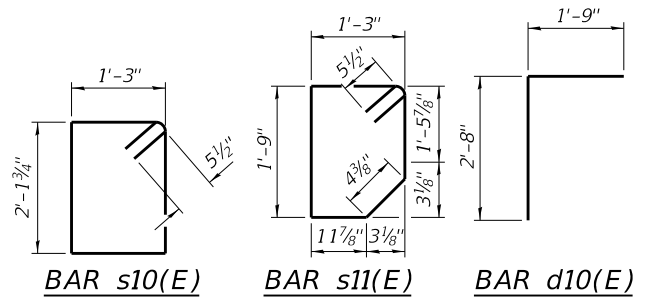
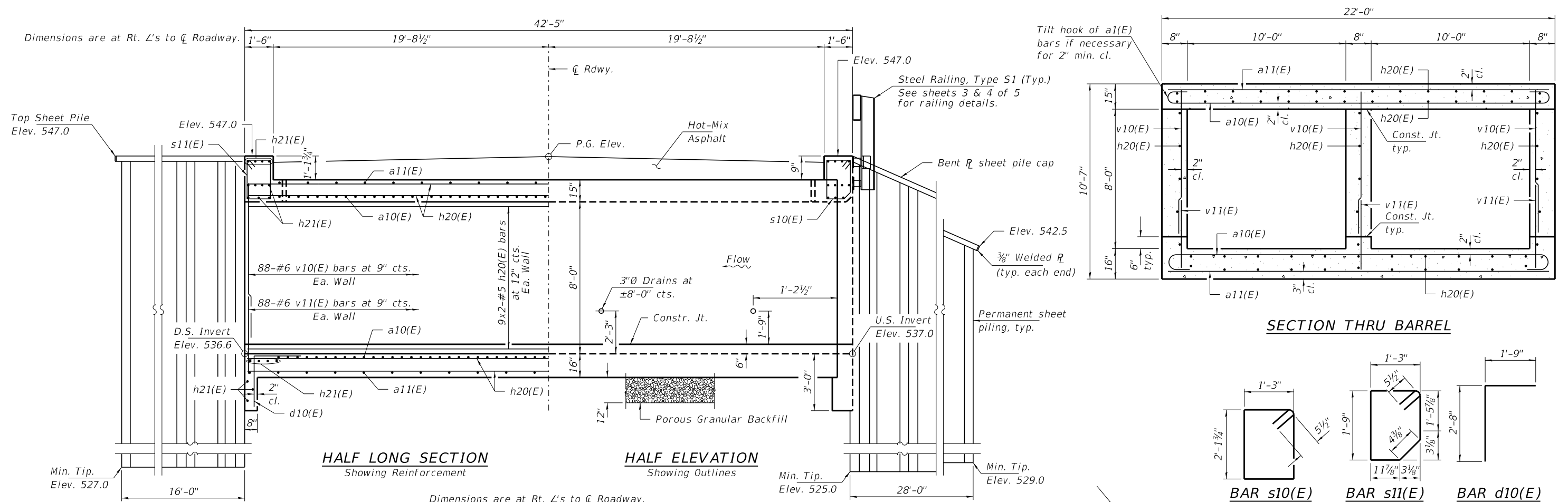
CULVERT DETAILS  
STRUCTURE NO. 026-3479

SHEET NO. 1 OF 5 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	11-00120-01-DR	FAYETTE	38	13
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		

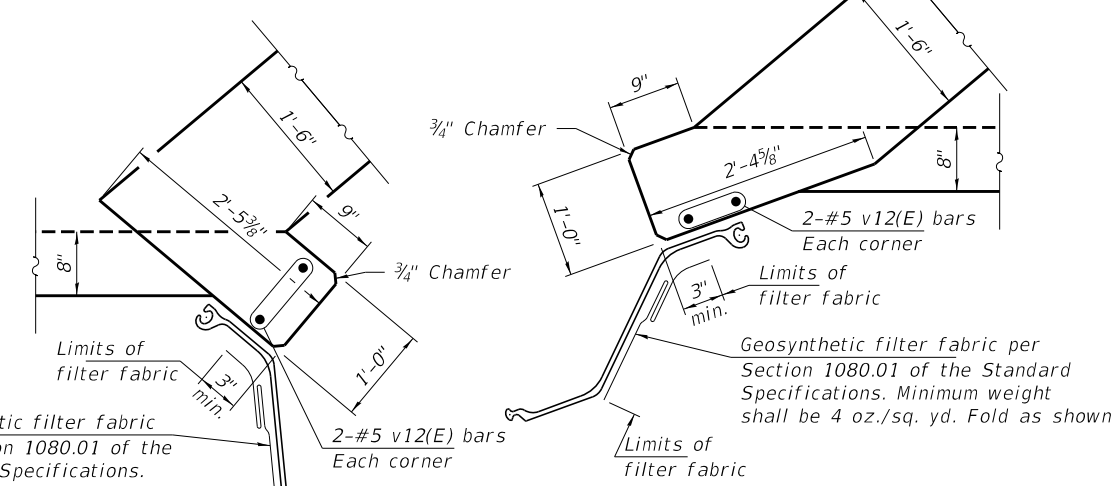
ILLINOIS FED. AID PROJECT OUF(348)



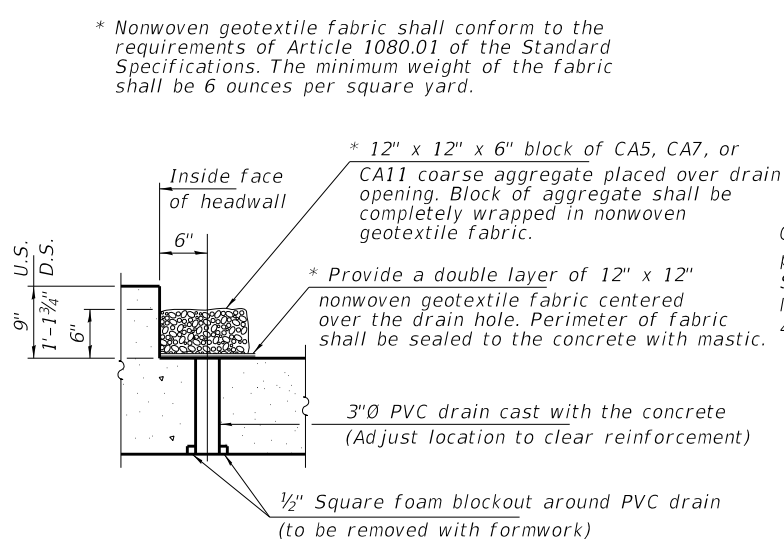
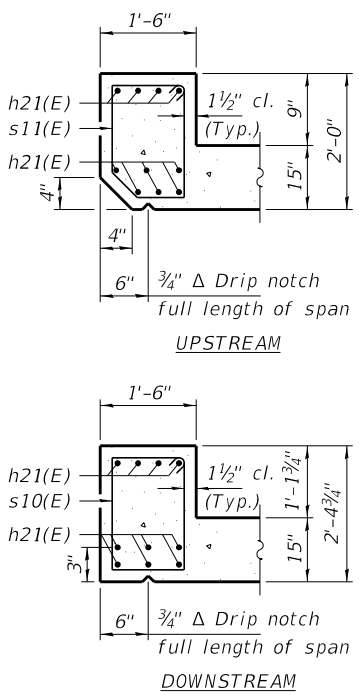


**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a10(E)	168	#9	36'-2"	
a11(E)	112	#9	33'-8"	
d10(E)	42	#4	4'-5"	
h20(E)	214	#5	34'-8"	
h21(E)	34	#10	31'-8"	
s10(E)	65	#6	7'-9"	
s11(E)	65	#6	6'-9"	
v10(E)	264	#6	8'-6"	
v11(E)	264	#6	5'-11"	
v12(E)	8	#5	11'-0"	
Porous Granular Backfill		Ton	184	
Stone Dumped Riprap, Class A4		Ton	70	
Reinf. Bars, Epoxy Coated		Pound	53,200	
Slope Wall, 4"		Sq. Yd.	108	
Name Plates		Each	1	
Permanent Sheet Piling		Sq. Ft.	1,697	
Concrete Box Culverts		Cu. Yd.	184.2	
Membrane Waterproofing System for Buried Structures		Sq. Yd.	258	
Porous Granular Embankment, Special		Ton	140	



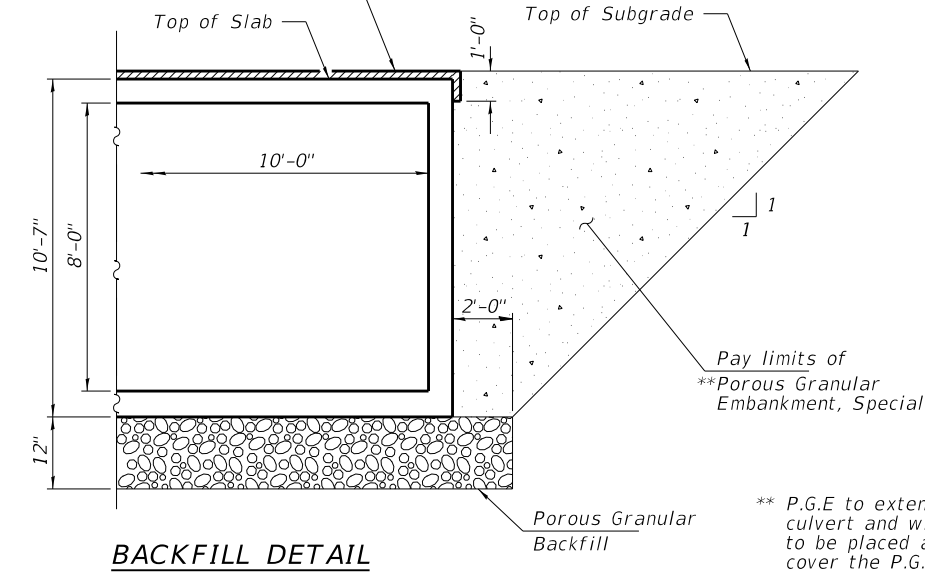
**Notes:**  
 Bars indicated thus 9 x 2-#5 etc. indicates 9 lines of bars with 2 lengths per line.  
 At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.  
 The minimum effective section modulus of the permanent steel sheet pile wall shall be 12.7 in.<sup>3</sup>/ft and as shown on sheet 3 of 5.  
 Sheet piling shall not be driven until the concrete strength has attained a minimum compressive strength of 2500 psi.  
 The cost of furnishing and installing the bent R sheet pile cap and filter fabric shall be included in the cost of Permanent Sheet Piling.



**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 Concrete Box Culverts.)

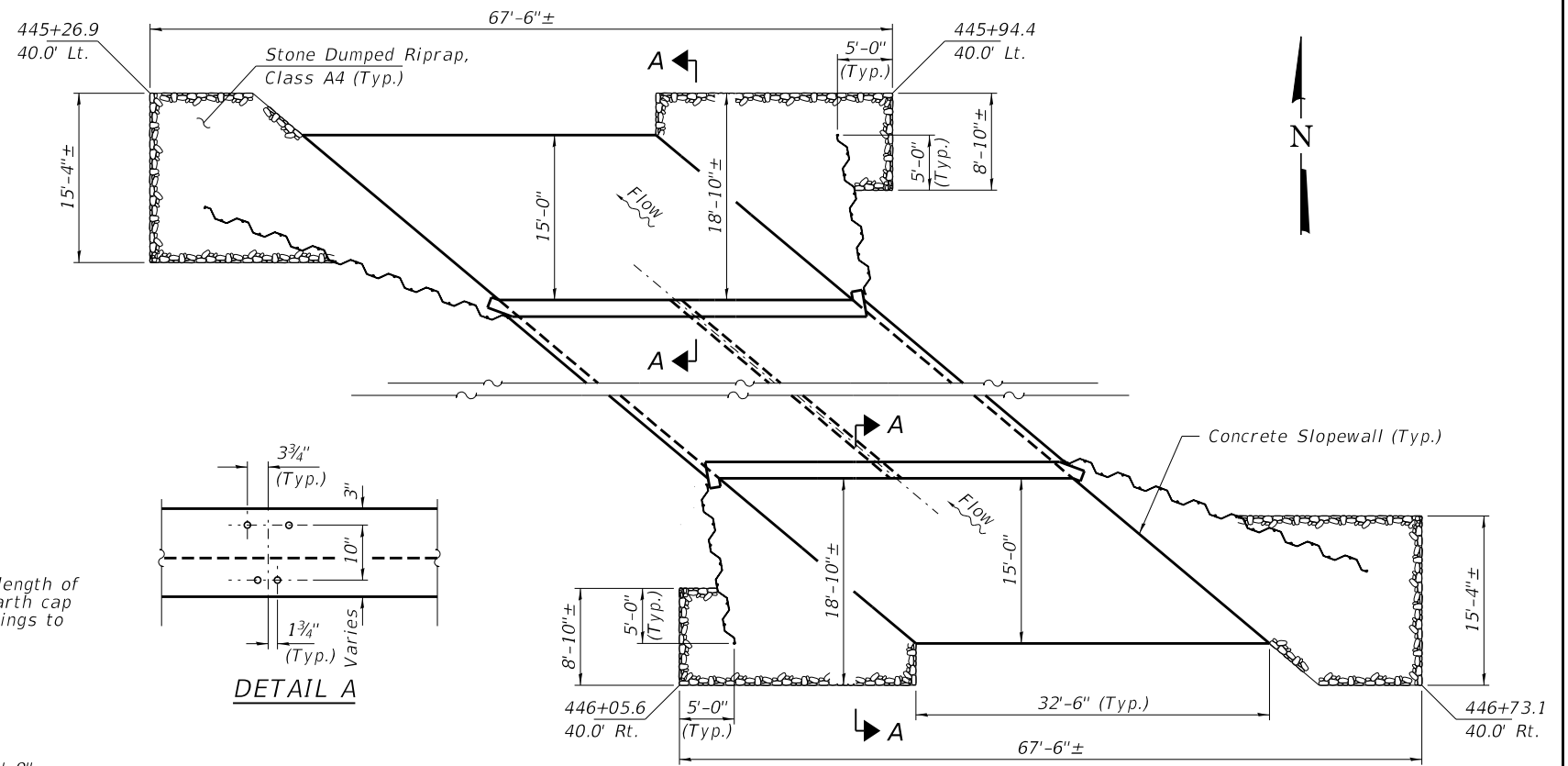
**SECTION THRU HEADWALL**

Membrane Waterproofing System for Buried Structures

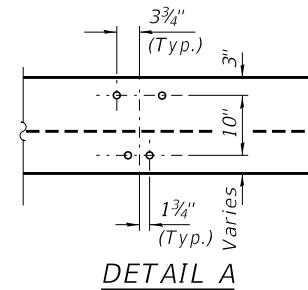


**BACKFILL DETAIL**

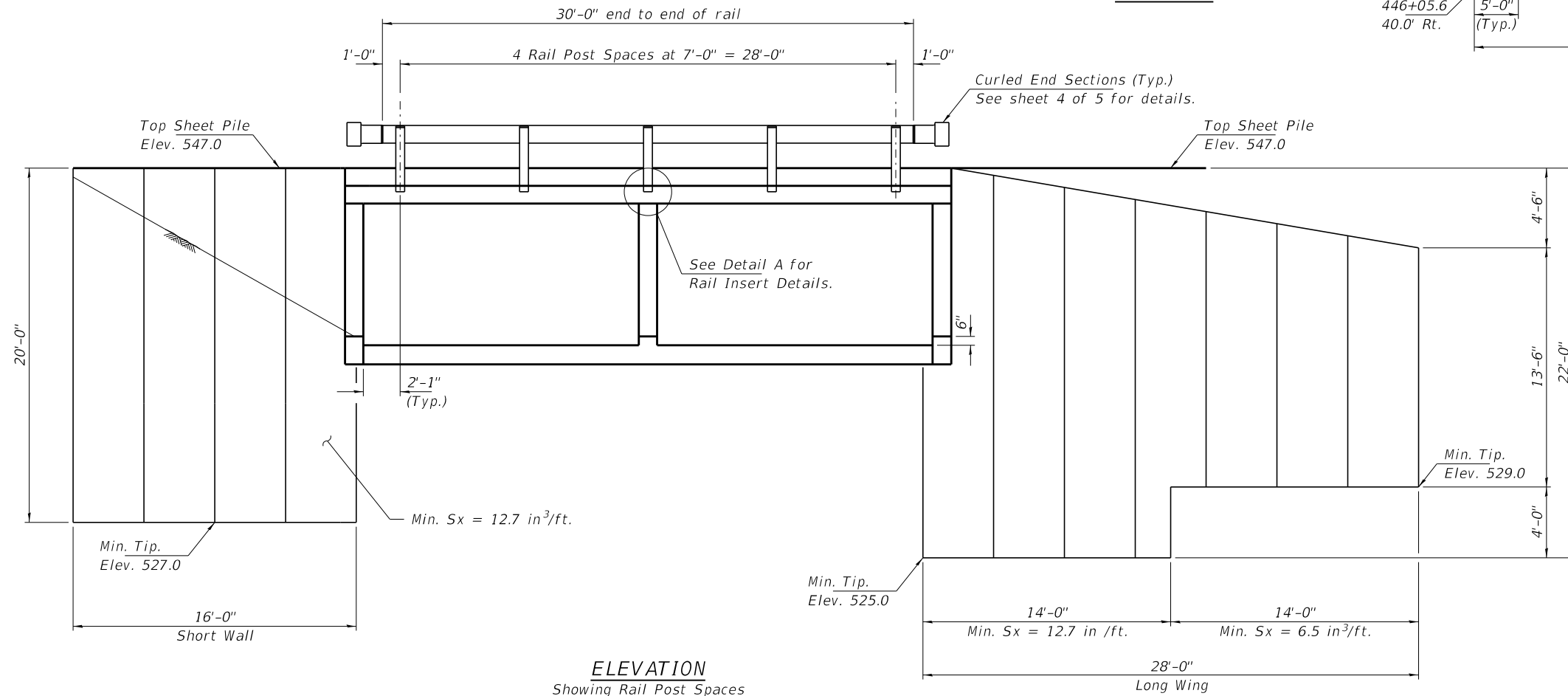
\*\* P.G.E to extend the full length of culvert and wings. 18" earth cap to be placed at end of wings to cover the P.G.E.



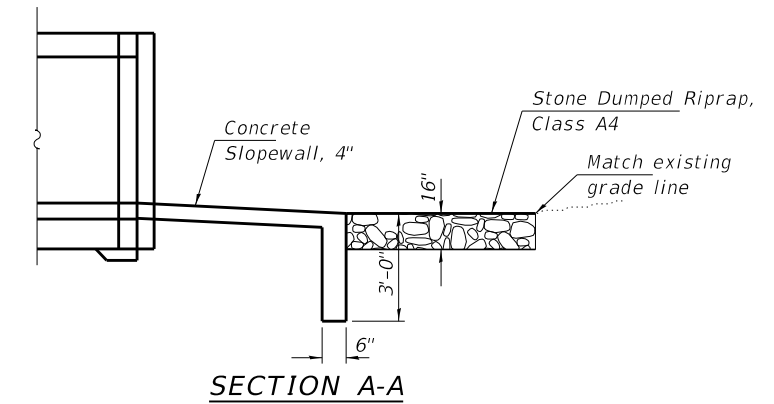
**RIPRAP LAYOUT**



**DETAIL A**

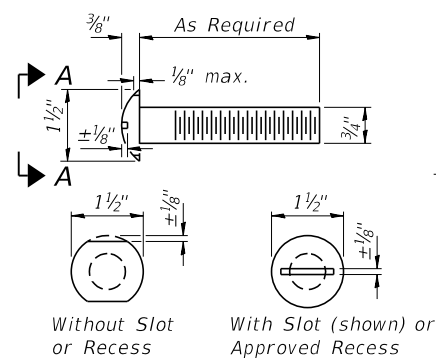


**ELEVATION**  
Showing Rail Post Spaces  
Showing Sheet Pile Details  
See sheet 4 of 5 for Railing Details.

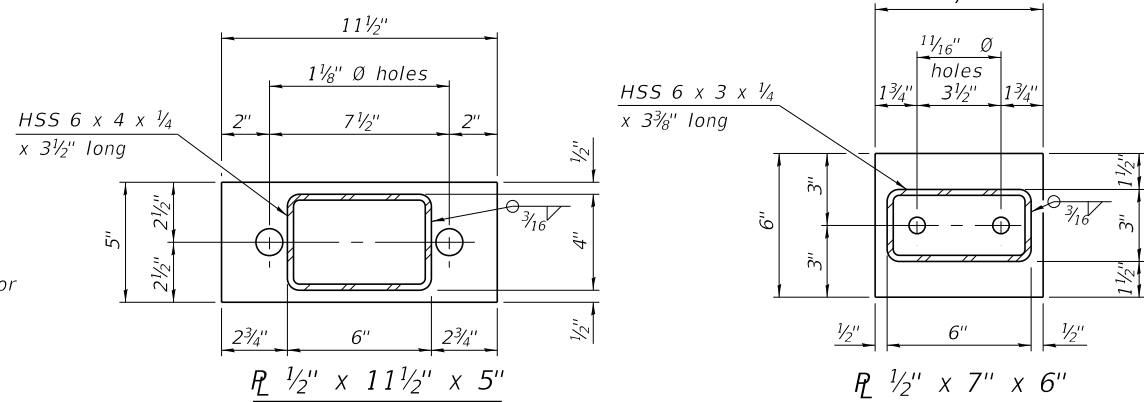


**SECTION A-A**

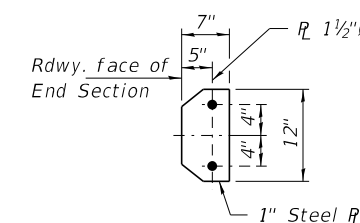
FILE NAME = 180571-shi-culvert-446.dgn	USER NAME = rtholck	DESIGNED - R.P.P.	REVISED -	<b>STATE OF ILLINOIS FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>CULVERT DETAILS STRUCTURE NO. 026-3479</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			717	11-00120-01-DR	FAYETTE	38	15
PLOT DATE = 4/15/2021		DRAWN - R.D.H.	REVISED -			ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 3 OF 5 SHEETS		ILLINOIS FED. AID PROJECT OUF1(348)		



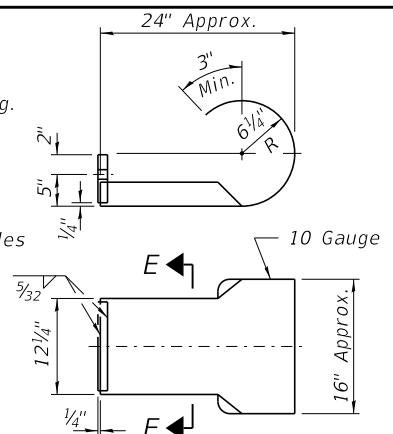
**VIEW A-A**  
**ROUND HEAD BOLT**



Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)



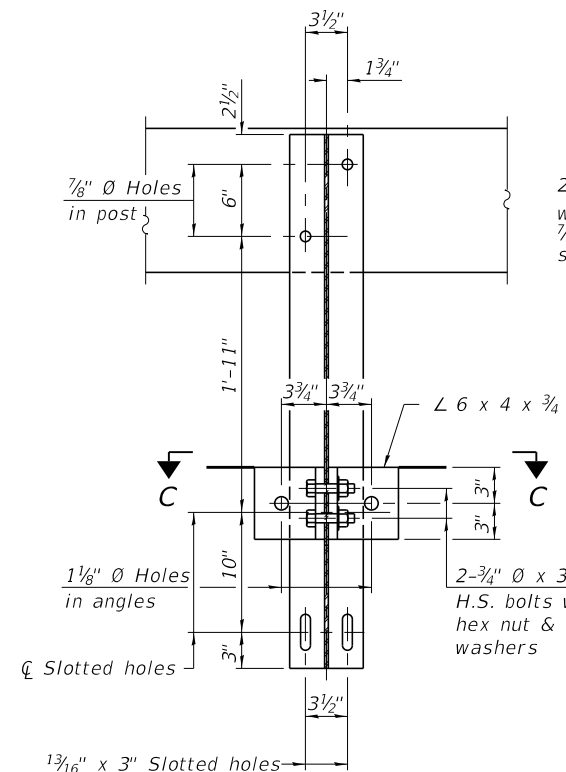
**SECTION E-E** **CURLED END SECTION DETAILS**



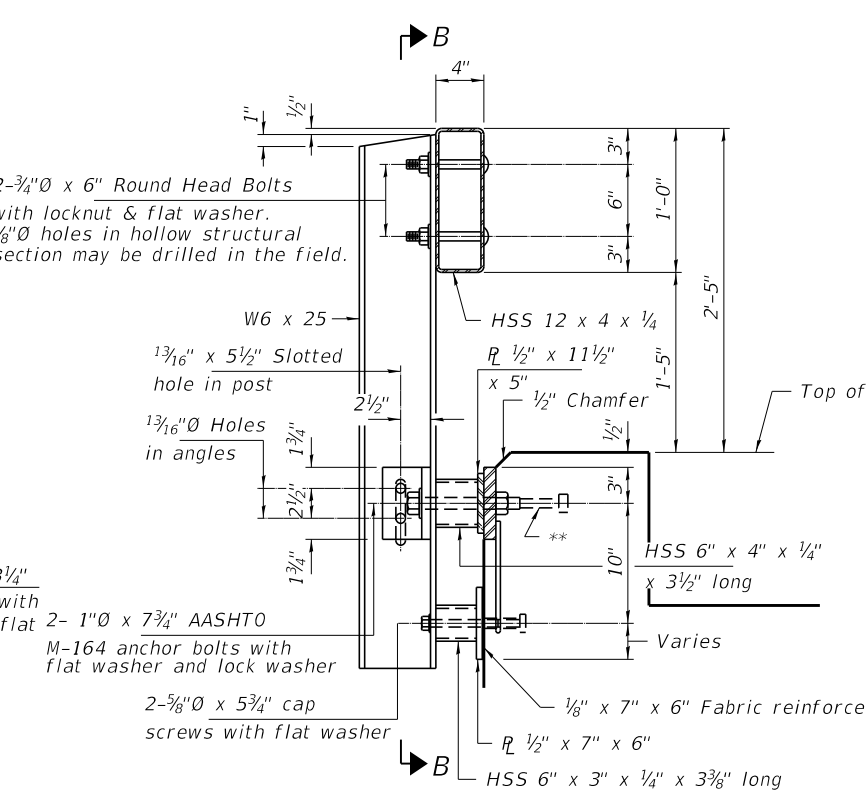
**SPLICE DIMENSIONS**

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

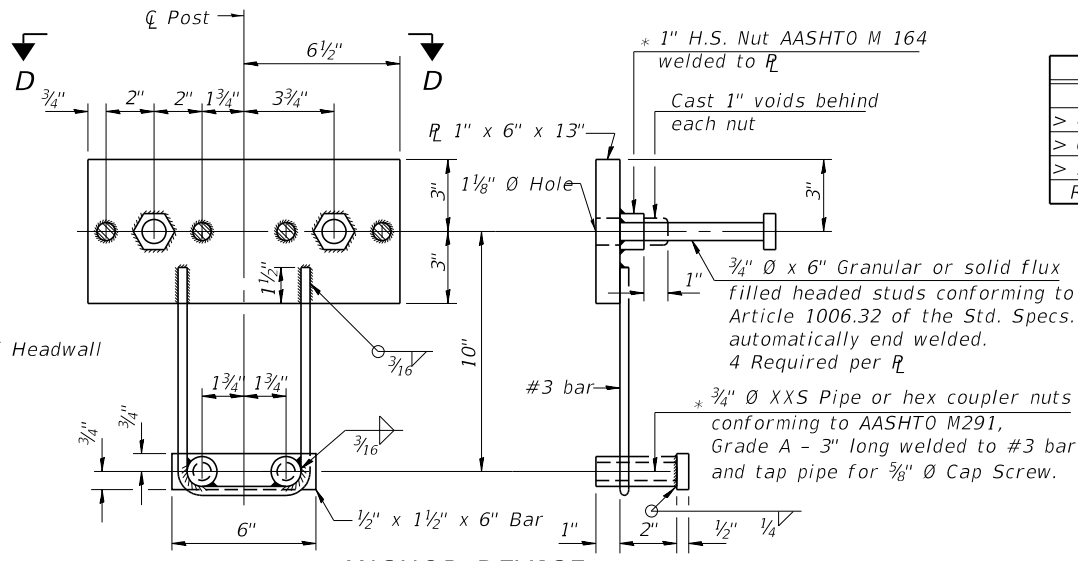
T = Total movement at expansion joint as shown on the design plans.



**SECTION B-B**

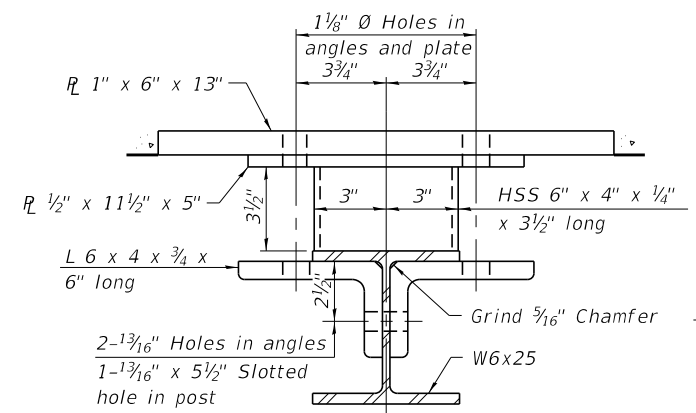


**SECTION AT RAILING POST**

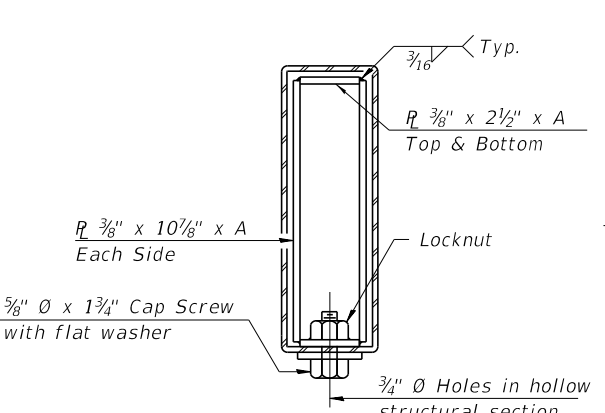


**ANCHOR DEVICE**

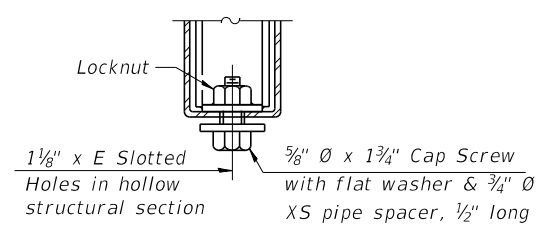
\* Threaded areas shall be plugged or blocked off during casting of beam.



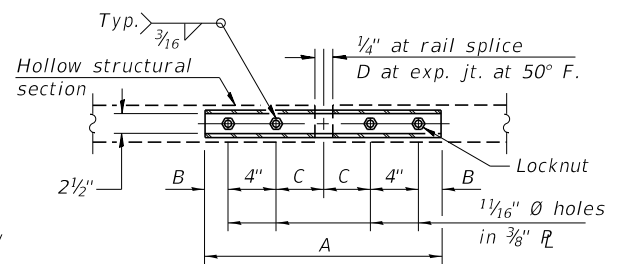
**SECTION C-C**



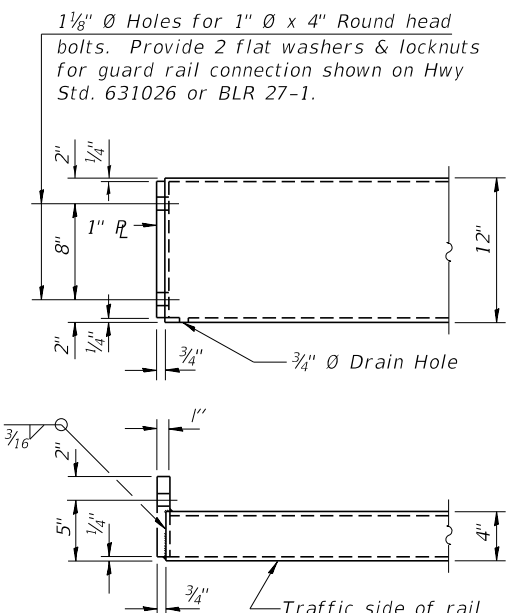
**SECTIONS AT RAIL SPLICE**



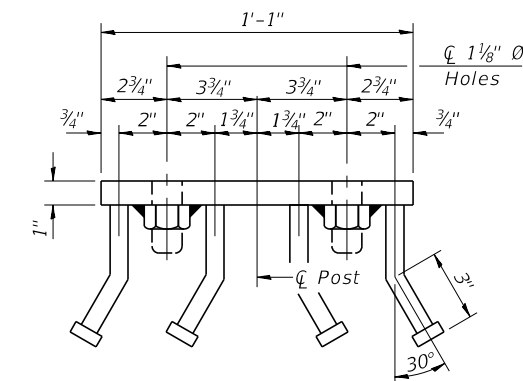
**RAIL SPLICE CONNECTION AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R TYPICAL**



**END OF RAIL DETAILS**



**VIEW D-D**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	60
Terminal Marker - Direct Applied	Each	4

R-23A 8-11-2017 (10'-9" Maximum Post Spacing)

FILE NAME = 180571-shi-culvert-446.dgn	USER NAME = rtholck	DESIGNED - R.P.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
3085 STEVENSON DRIVE, SUITE 201	PLOT DATE = 4/15/2021	DRAWN - R.D.H.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000959			

**STATE OF ILLINOIS**  
**FAYETTE COUNTY HIGHWAY DEPARTMENT**

**STEEL RAILING, TYPE S-1**  
**STRUCTURE NO. 026-3479**

SHEET NO. 4 OF 5 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	16
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
ILLINOIS FED. AID PROJECT OUFJ(348)				



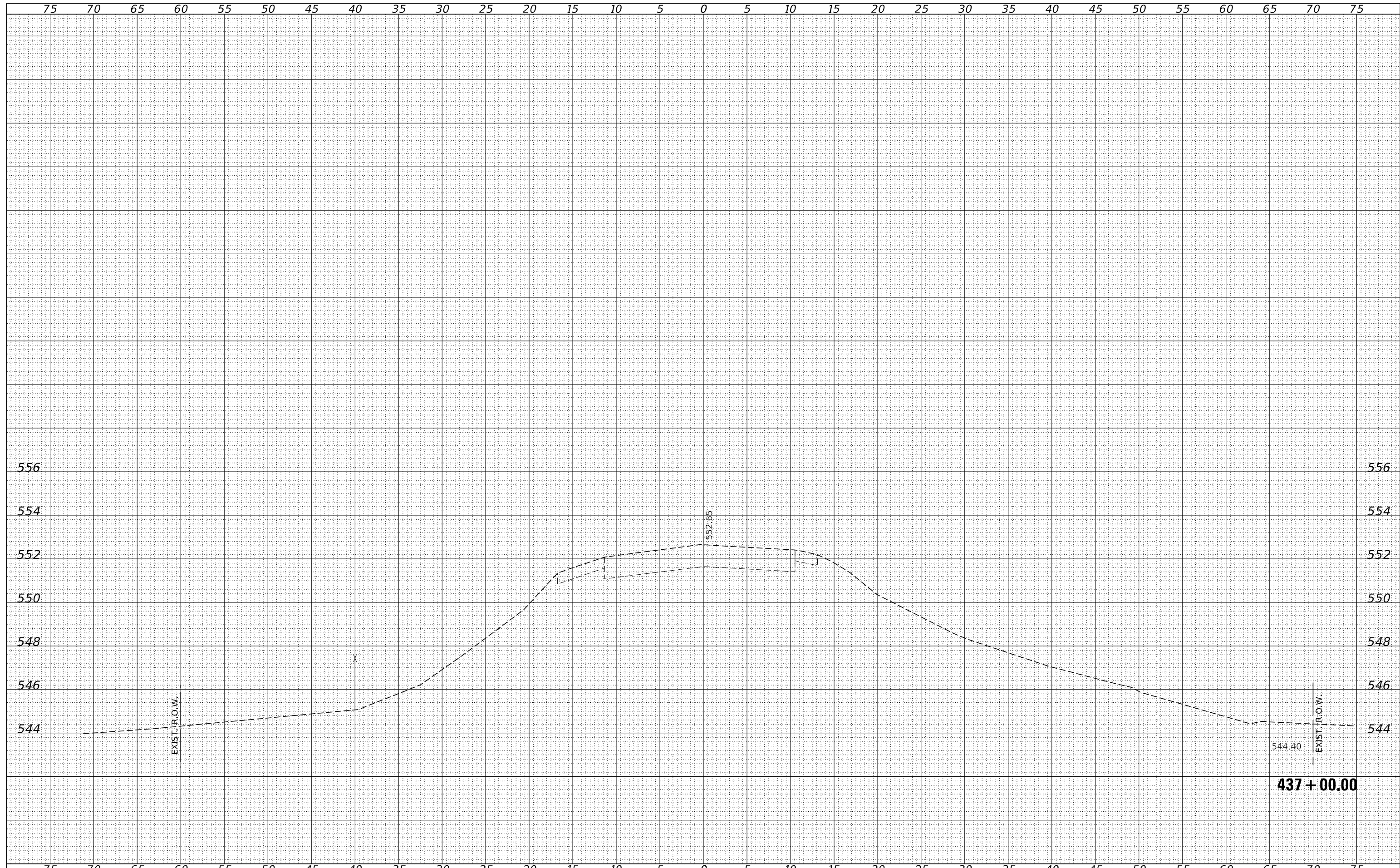
<b>NOBLE</b>		<b>BORING No. B-1</b>		water level reading					
<b>ENGINEERING CONSULTANTS</b>		County: Fayette, IL	Sheet No. 1 of 2	1st encounter: 11'					
Client: HLR		Weather: P. Sunny	Temperature: 70's	<b>water level reading</b>					
Driller: Noble Engineering Consultants		Date Start: 10-30-18	Surface Elevation: 100**	@completion	Dry Cave				
Location: 11-00120-01-DR Sta. 446+00		Date Finished: 10-30-18	Driller: Tony Schocker	Backfill:	Soil cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	USC Class.	Elev.**
1							0.0'-0.3' Crushed rock with clay-FILL		99
2	SS-1	1.0'-2.5'	8	9-4-4	30		0.3'-6.0' Silt, Clay, Etc. FILL	FILL	98
3									97
4	SS-2	3.5'-5.0'	8	3-4-4	100			FILL	96
5									95
6	SS-3	6.0'-7.5'	5	2-3-2	0		6.0'-11.0' SILTY CLAY, trace to some gravel, trace sand, medium stiff, brown	CL	94
7									93
8									92
9	SS-4	8.5'-10.0'	4	2-2-2	100	0.8		CL	91
10									90
11									89
12									88
13									87
14	SS-5	13.5'-15.0'	26	4-11-15	100	3.0		CH	86
15									85
16									84
17									83
18									82
19	SS-6	18.5'-20.0'	19	4-8-11	100	1.9		CH	81
20									80
21									79
22									78
23									77
24	SS-7	23.5'-25.0'	22	7-9-13	100	2.9	11.0'-36.0' CLAY, trace to some sand, trace gravel, occ. wet sand seams, stiff to very stiff, gray	CH	76
25									75
26									74
27									73
28									72
29									71
30	SS-8	28.5'-30.0'	18	3-8-10	100	2.8		CH	70
Drilling Method: HSA (2-1/4" id)		comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder					
Depth: 0' to 50.0'									
Drill Rig: Mobile B-47		** ground surface elevation at boring location is estimated from bridge deck							
Sampling: split-spoon (SS)		100.0 and is not surveyed							

<b>NOBLE</b>		<b>BORING No. B-1</b>		water level reading					
<b>ENGINEERING CONSULTANTS</b>		County: Fayette, IL	Sheet No. 2 of 2	1st encounter: 11'					
Client: HLR		Weather: P. Sunny	Temperature: 70's	<b>water level reading</b>					
Driller: Noble Engineering Consultants		Date Start: 10-30-18	Surface Elevation: ~100	@completion	Dry Cave				
Location: 11-00120-01-DR Sta. 446+00		Date Finished: 10-30-18	Driller: Tony Schocker	Backfill:	Soil cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	USC Class.	Elev.**
31									69
32									68
33									67
34	SS-9	33.5'-35.0'	22	8-10-12	100	3.1	11.0'-36.0' CLAY, trace to some sand, trace gravel, occ. wet sand seams, stiff to very stiff, gray	CH	66
35									65
36									64
37									63
38									62
39	SS-10	38.5'-40.0'	26	8-11-15	100	4.1		CL-ML	61
40									60
41									59
42									58
43									57
44	SS-11	43.5'-45.0'	29	9-12-17	100	4.3	36.0'-50.0' CLAYEY SILT (TILL), trace to some sand, trace to some gravel, occ. wet sand seams, hard, gray	CL-ML	56
45									55
46									54
47									53
48									52
49	SS-12	48.5'-50.0'	22	8-8-14	30	4.0		CL-ML	51
50									50
51									50
52									50
53									50
54									50
55									50
56									50
57									50
58									50
59									50
60									50
Drilling Method: HSA (2-1/4" id)		comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder					
Depth: 0' to 50'									
Drill Rig: Mobile B-47		** ground surface elevation at boring location is estimated and is not surveyed							
Sampling: split-spoon (SS)									

BORING-1

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

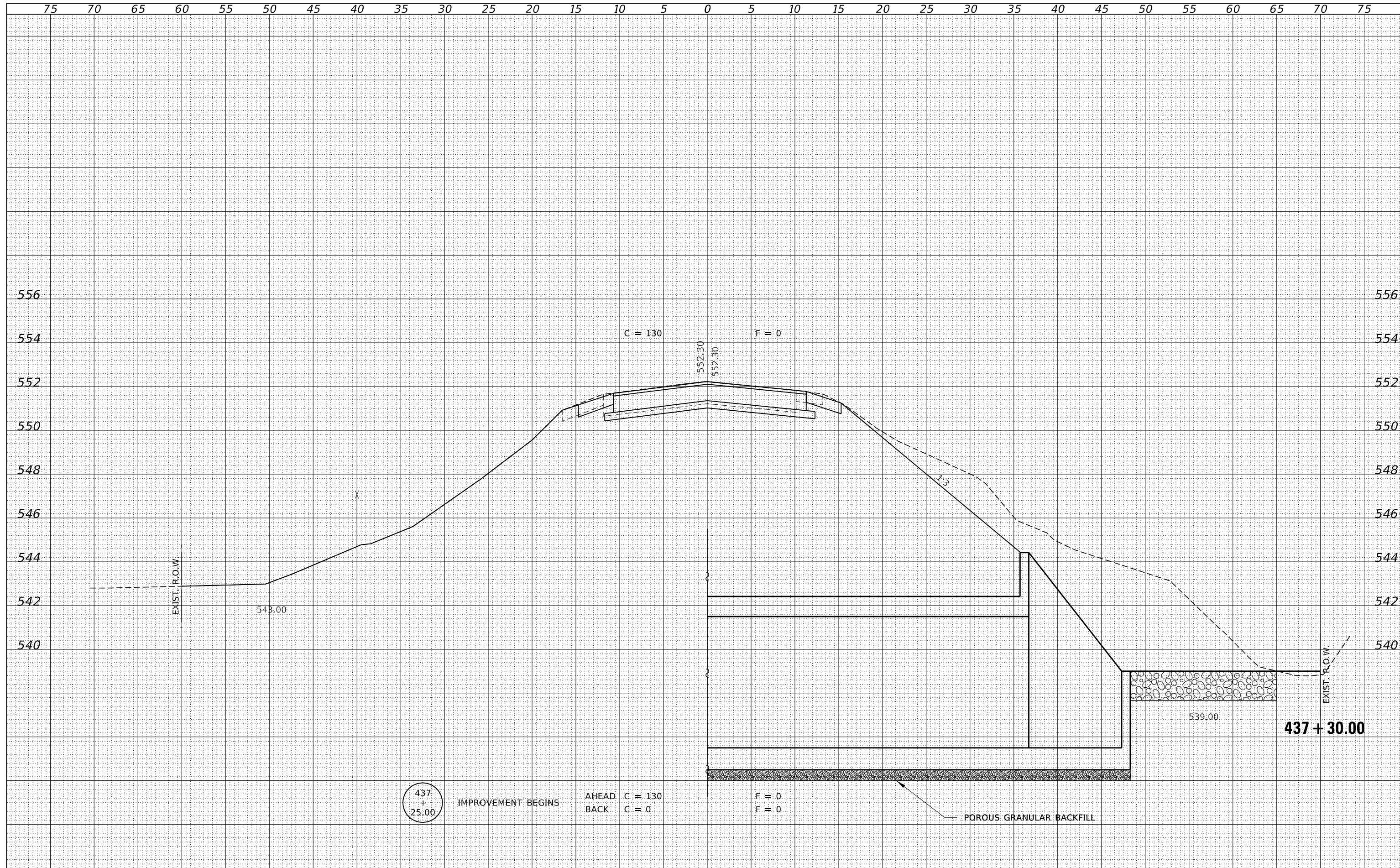
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME = 180571-shl-xsec-437.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REvised -	<b>STATE OF ILLINOIS</b> <b>FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> <small>3885 STEVENSON DRIVE, SUITE 201          SPRINGFIELD, ILLINOIS 62703          ILLINOIS PROFESSIONAL DESIGN FIRM          L/S / P.E. / S.E. CORP. 184-009658</small>		DRAWN - T.W.K.	REvised -		717	11-00120-01-DR	FAYETTE	38	18		
PLOT SCALE = \$SCALES		CHECKED - S.W.M.	REvised -		ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897			
PLOT DATE = 4/15/2021		DATE - 04/13/2021	REvised -		SCALE: 5H:2V		SHEET NO. 1 OF 8 SHEETS		STA. 437+00.00 TO STA. 437+00.00		
					ILLINOIS FED. AID PROJECT OULF(348)						

BY	DATE

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



BY	DATE

FILE NAME = 180571-shl-xsec-437.dgn  
 USER NAME = rmosck  
 DESIGNED - J.V.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 4/15/2021

DESIGNED - J.V.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021

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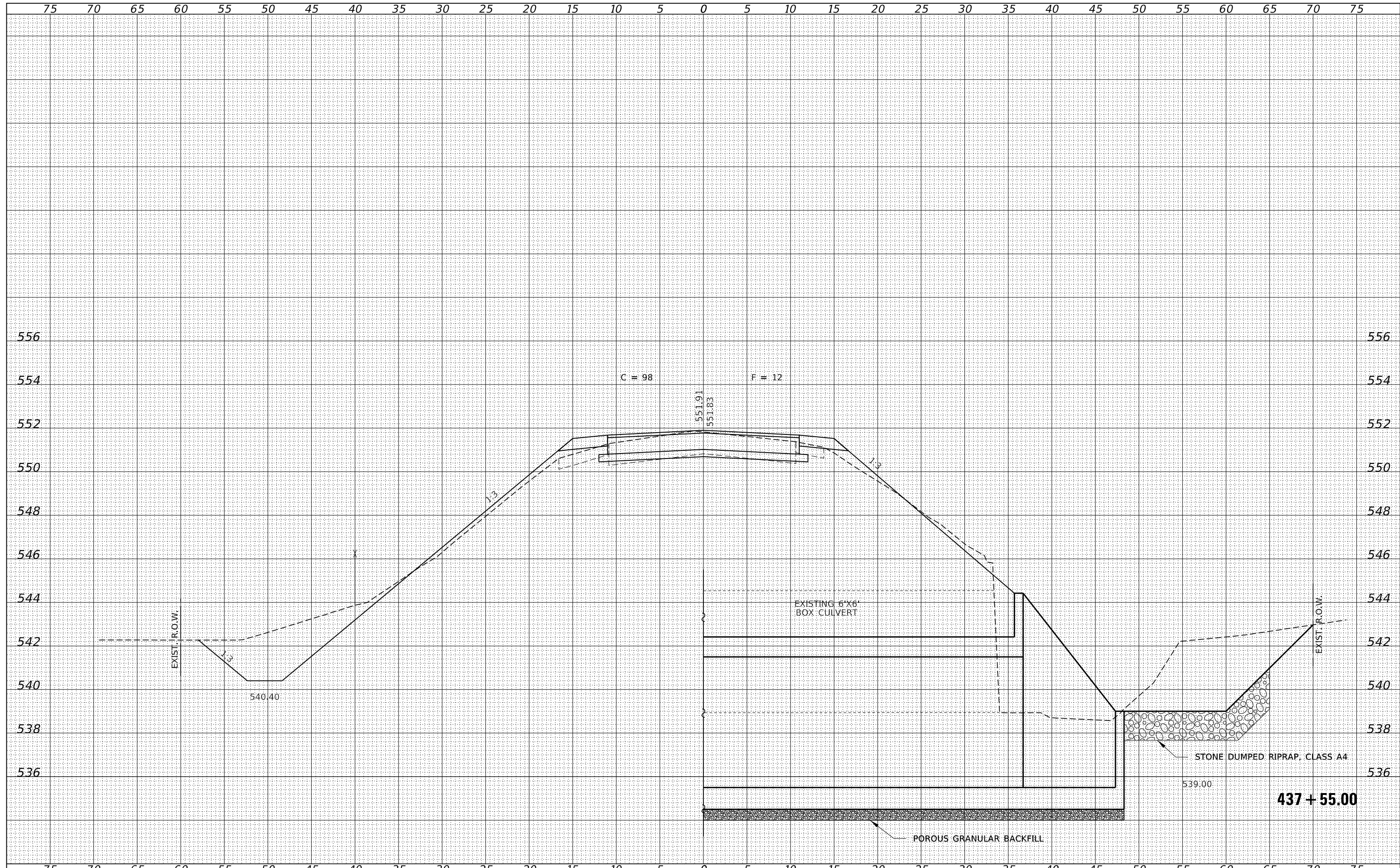
**STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**  
 SCALE: 5H:2V  
 SHEET NO. 2 OF 8 SHEETS  
 STA. 437+30.00 TO STA. 437+30.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	19
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
ILLINOIS FED. AID PROJECT OUF(348)				

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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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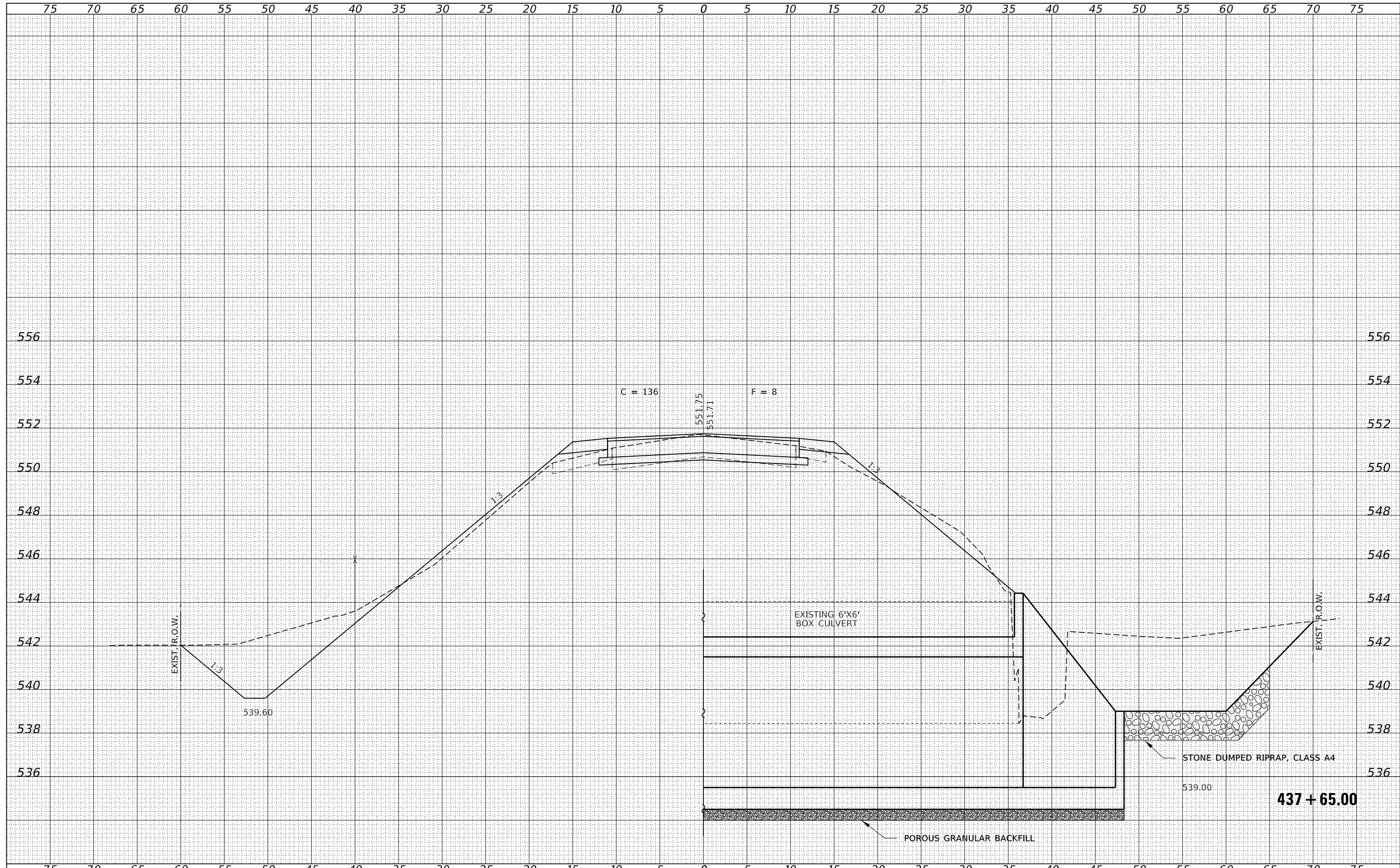
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 180571-shl-xsec-437.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>FAYETTE COUNTY HIGHWAY DEPARTMENT</b></p> <p align="center"><b>STATION CROSS SECTIONS</b></p>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISED -		717	11-00120-01-DR	FAYETTE	38	20
PLOT DATE = 4/15/2021	CHECKED - S.W.M.	REVISIED -	REVISED -		ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
	DATE - 04/13/2021	REVISIED -	REVISED -		SCALE: 5H:2V		SHEET NO. 3 OF 8 SHEETS		STA. 437+55.00 TO STA. 437+55.00

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FINAL SURVEY	
NOTE BOOK	
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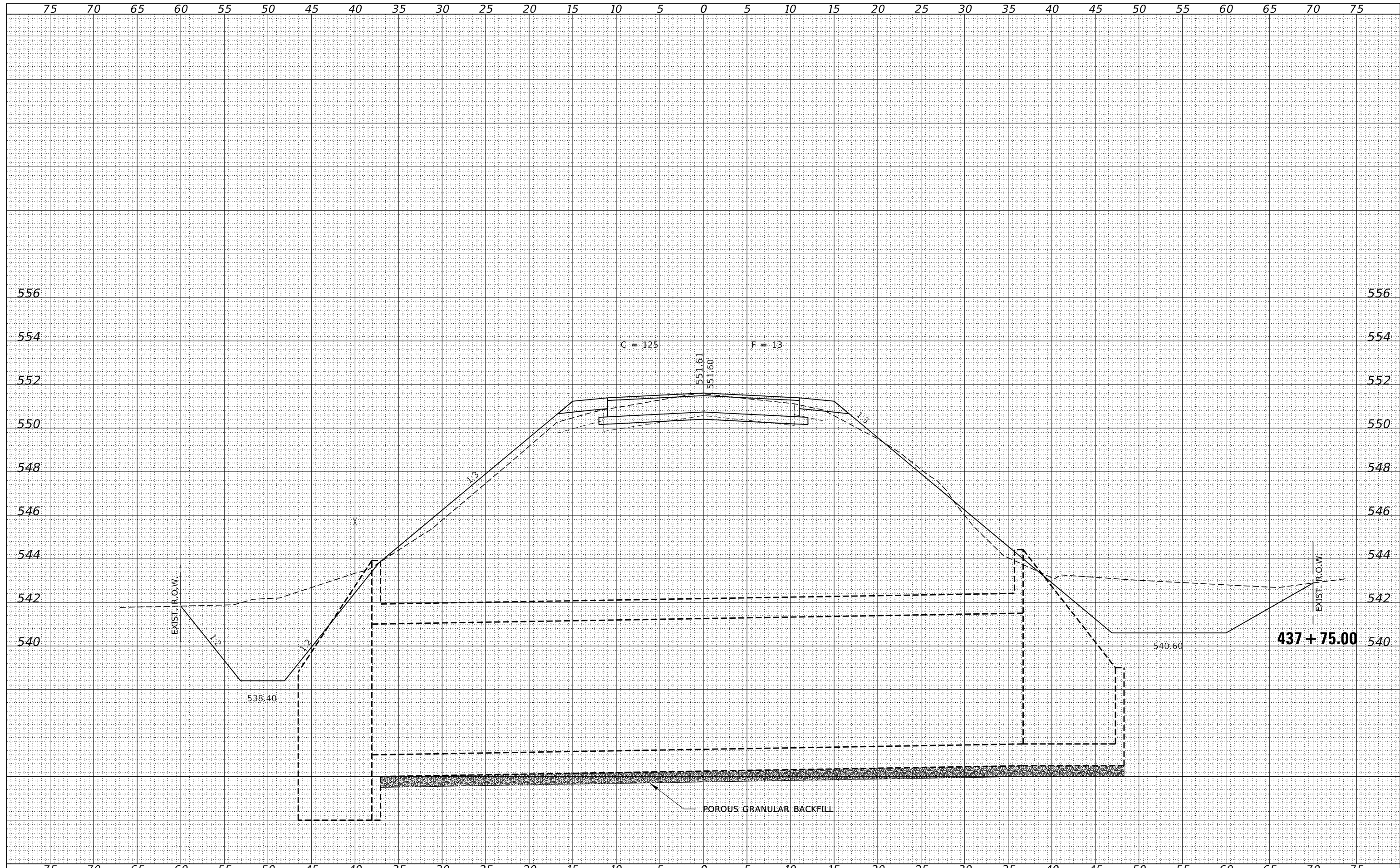
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 180571-shl-xsec-437.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$S\$CALES	DRAWN - T.W.K.	REVISED -		717	11-00120-01-DR	FAYETTE	38	21			
PLOT DATE = 4/15/2021	CHECKED - S.W.M.	REVISIED -	SCALE: 5H:2V		SHEET NO. 4 OF 8 SHEETS	STA. 437+65.00 TO STA. 437+65.00	CONTRACT NO. 95897		ILLINOIS FED. AID PROJECT OULF(348)			
DATE - 04/13/2021	REVISIED -											

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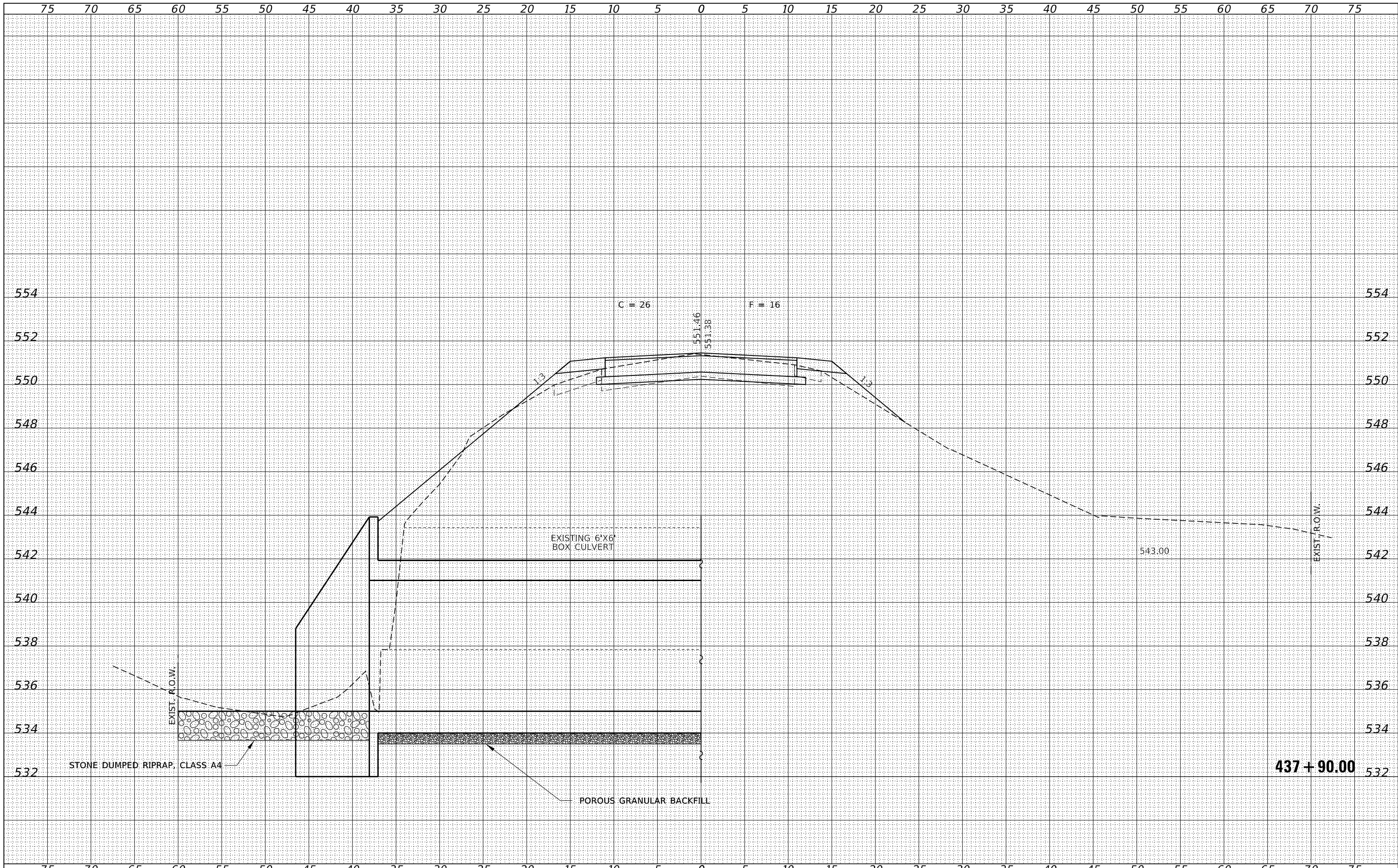


FILE NAME = 180571-shl-xsec-437.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>FAYETTE COUNTY HIGHWAY DEPARTMENT</b></p> <p align="center"><b>STATION CROSS SECTIONS</b></p>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$S\$CALES	DRAWN - T.W.K.	REVISED -		717	11-00120-01-DR	FAYETTE	38	22
PLOT DATE = 4/15/2021	DATE - 04/13/2021	CHECKED - S.W.M.	REVISED -		ST. PETER ROAD / C.H. 23				
		REVISOR -	REVISED -		CONTRACT NO. 95897				
SCALE: 5H:2V				SHEET NO. 5 OF 8 SHEETS		STA. 437+75.00 TO STA. 437+75.00		ILLINOIS FED. AID PROJECT OUF(348)	



DATE	
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SURVEYED	
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CHECKED	
FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 180571-shl-xsec-437.dgn  
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 DRAWN - T.W.K.  
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 DATE - 04/13/2021

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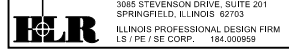
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**STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

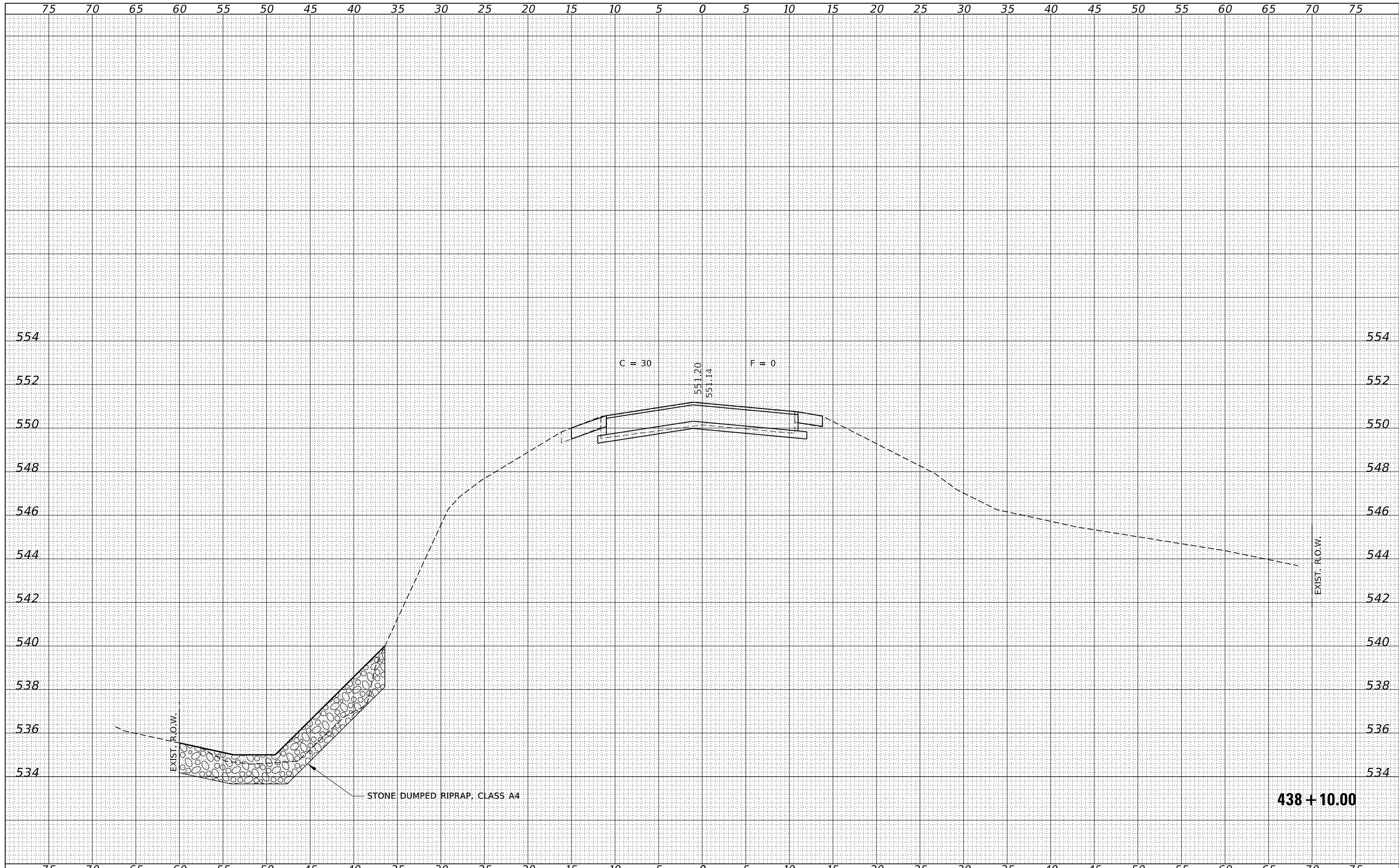
SCALE: 5H:2V      SHEET NO. 6 OF 8 SHEETS      STA. 437+90.00 TO STA. 437+90.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	23
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OUF(348)				



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FINAL SURVEY NO.	SURVEYED
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	TEMPLATE AREAS CHECKED
	NOTE BOOK AREAS CHECKED

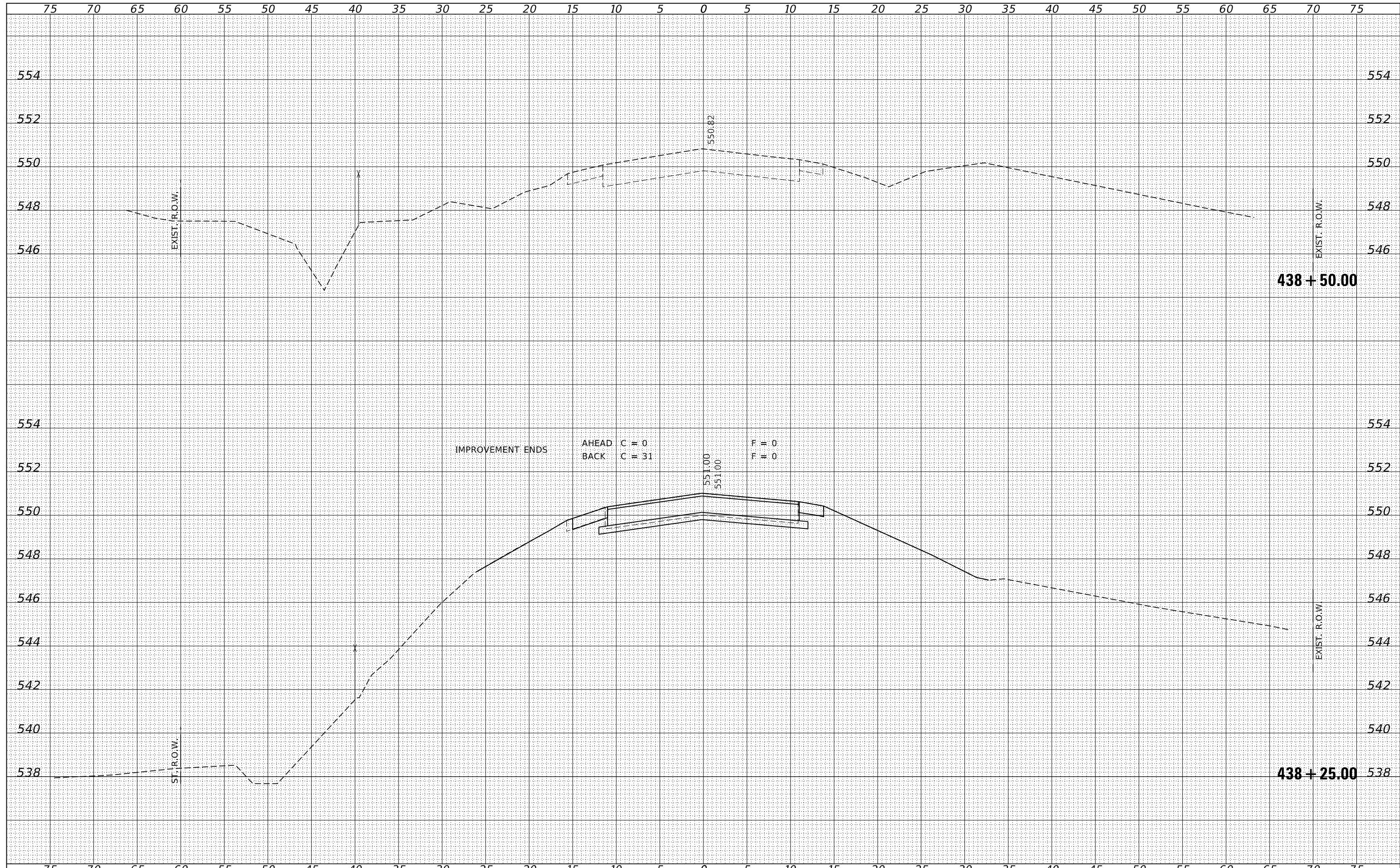
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ORIGINAL SURVEY NO.	SURVEYED
	PLOTTED
	TEMPLATE AREAS CHECKED
	NOTE BOOK AREAS CHECKED



438 + 10.00

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



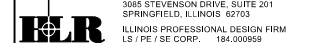
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 CHECKED - S.W.M.  
 DATE - 04/13/2021  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 4/15/2021

REVISIONS:  
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**STATE OF ILLINOIS**  
**FAYETTE COUNTY HIGHWAY DEPARTMENT**

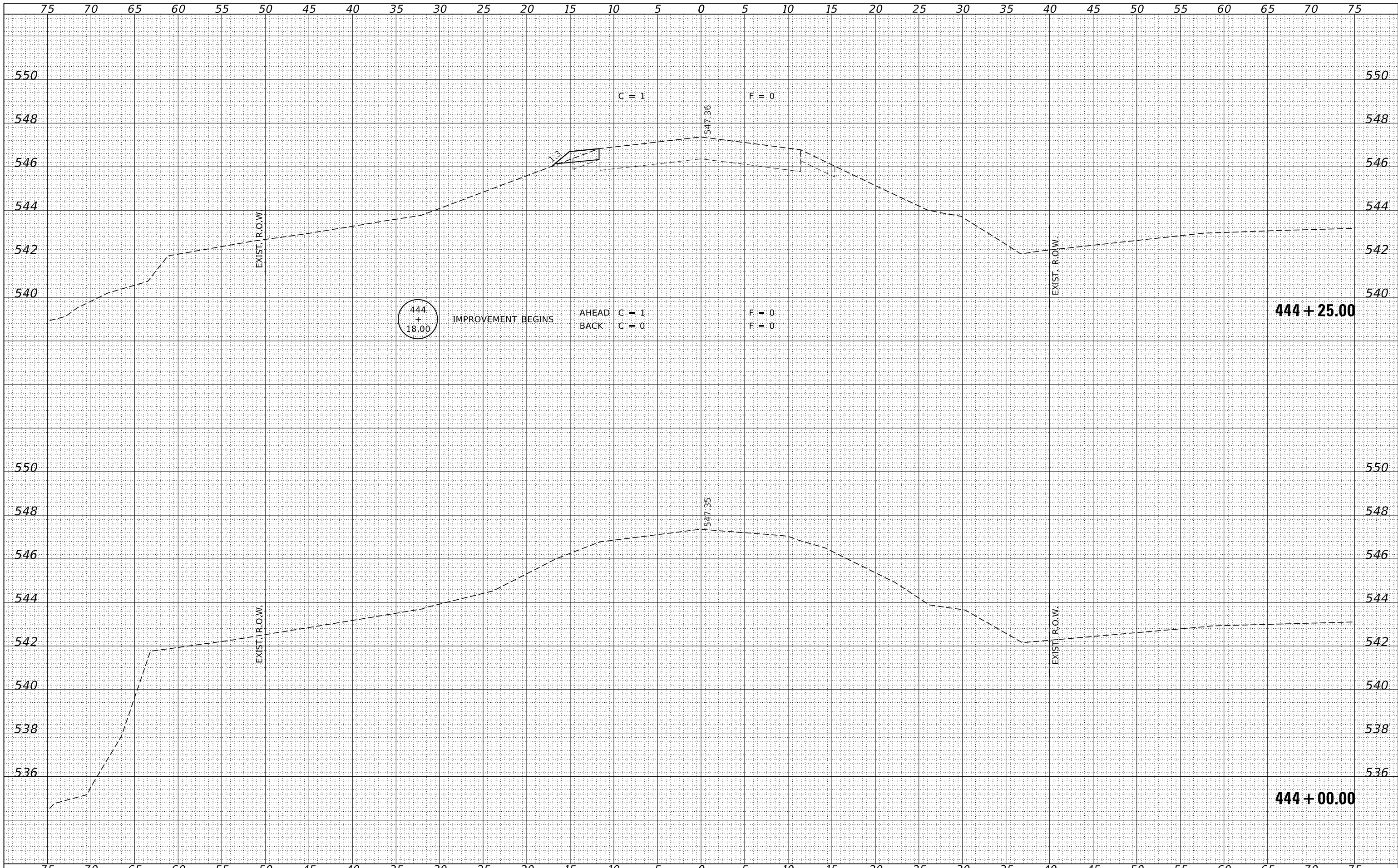
**STATION CROSS SECTIONS**  
 SCALE: 5H:2V  
 SHEET NO. 8 OF 8 SHEETS  
 STA. 438+25.00 TO STA. 438+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	25
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OUF(348)				



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FILE NAME = 180571-shl-xsec-446.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 L.S. / P.E. / S.E. CORP. 184-000958

USER NAME = rmosck  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021  
 PLOT SCALE = \$SCALES  
 PLOT DATE = 4/15/2021

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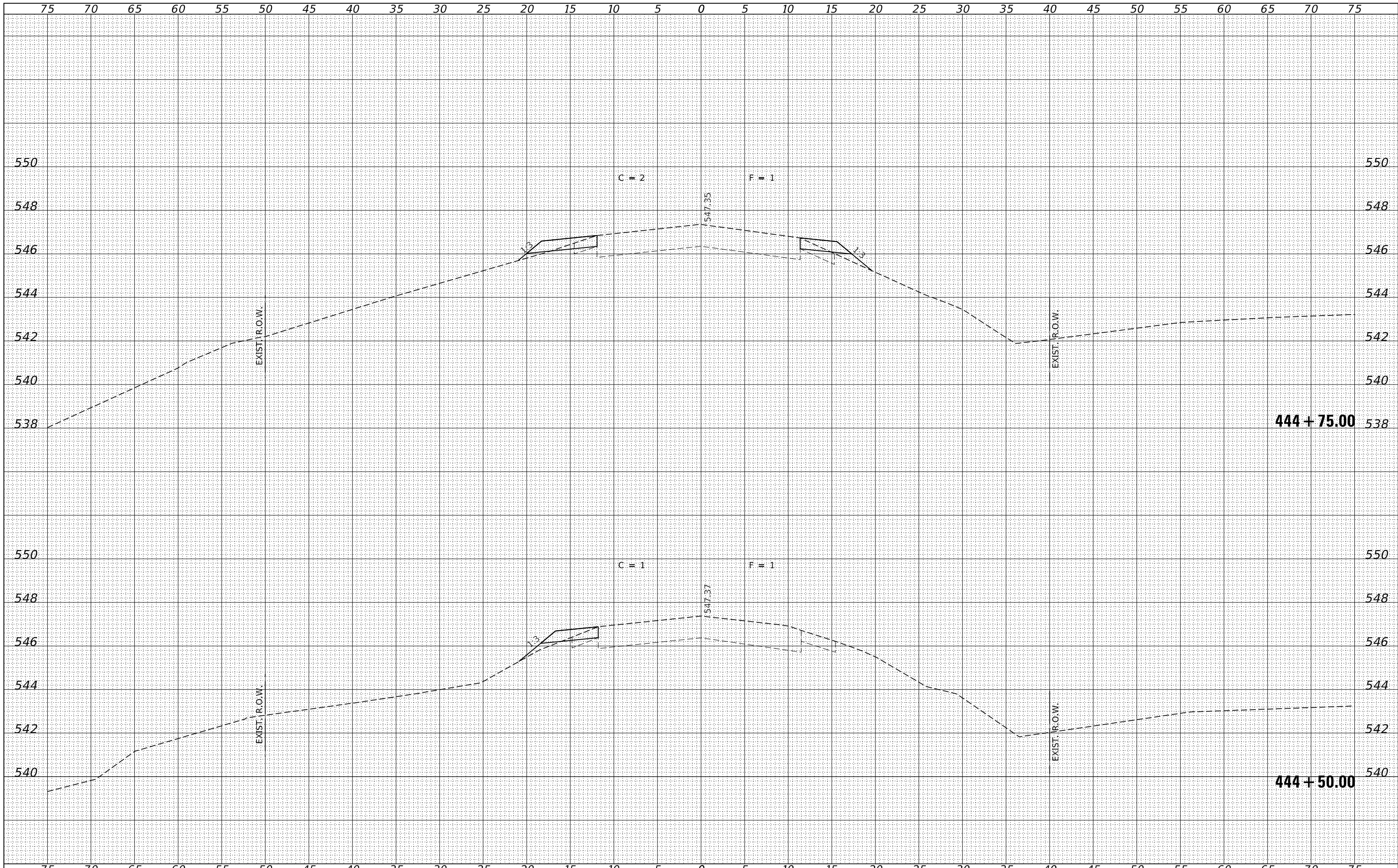
STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 1 OF 13 SHEETS  
 STA. 444+02.00 TO STA. 444+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	26
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OUF(348)				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME = 180571-shl-xsec-446.dgn  
 DESIGNED - J.V.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021

USER NAME = rmosck  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 4/15/2021

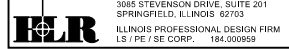
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STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

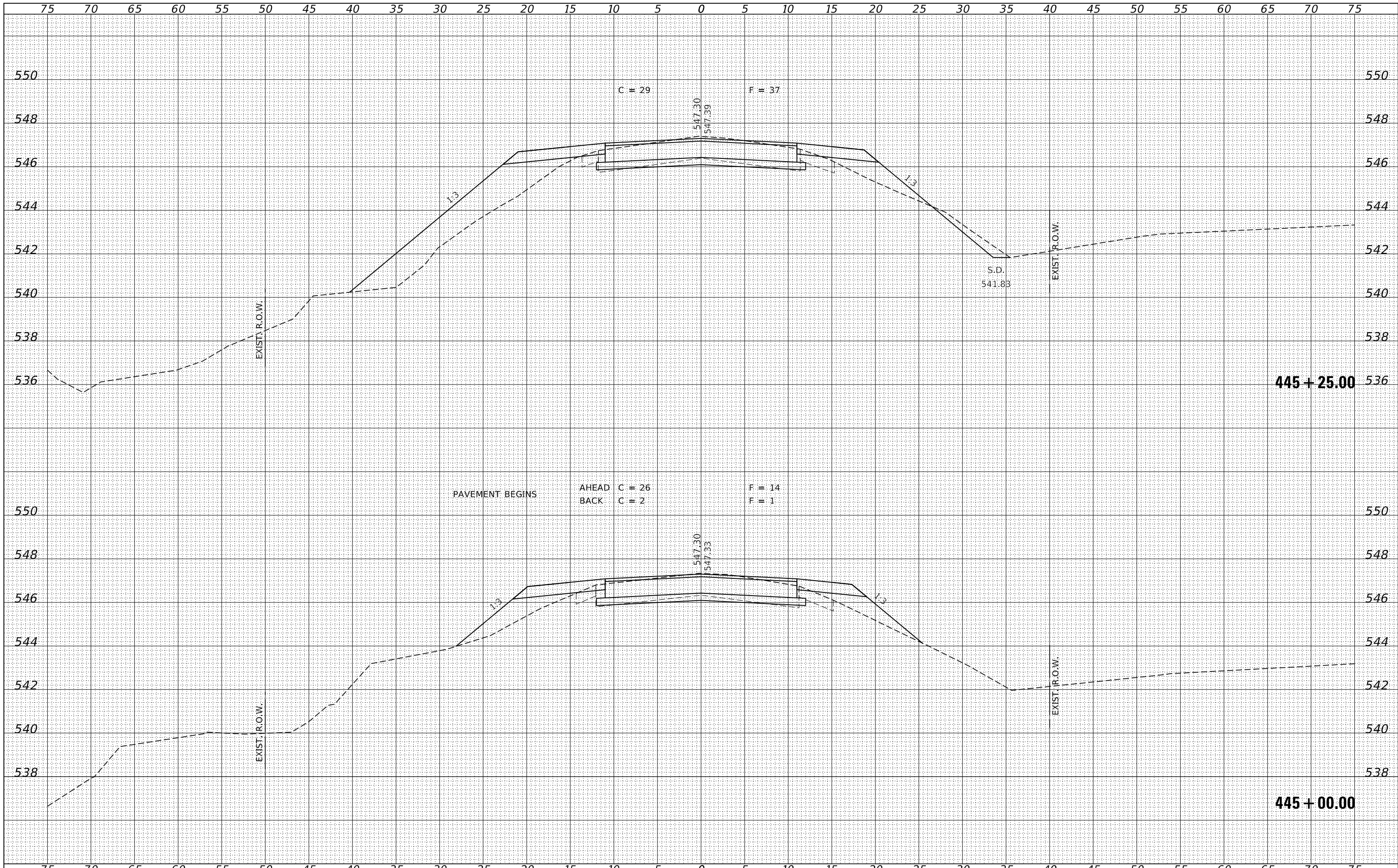
SCALE: 5H:2V SHEET NO. 2 OF 13 SHEETS STA. 444+50.00 TO STA. 444+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	27
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OUF(348)				



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FILE NAME = 180571-shl-xsec-446.dgn  
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 PLOT DATE = 4/15/2021

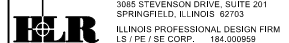
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**STATE OF ILLINOIS**  
**FAYETTE COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

SCALE: 5H:2V SHEET NO. 3 OF 13 SHEETS STA. 445+00.00 TO STA. 445+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	28
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		

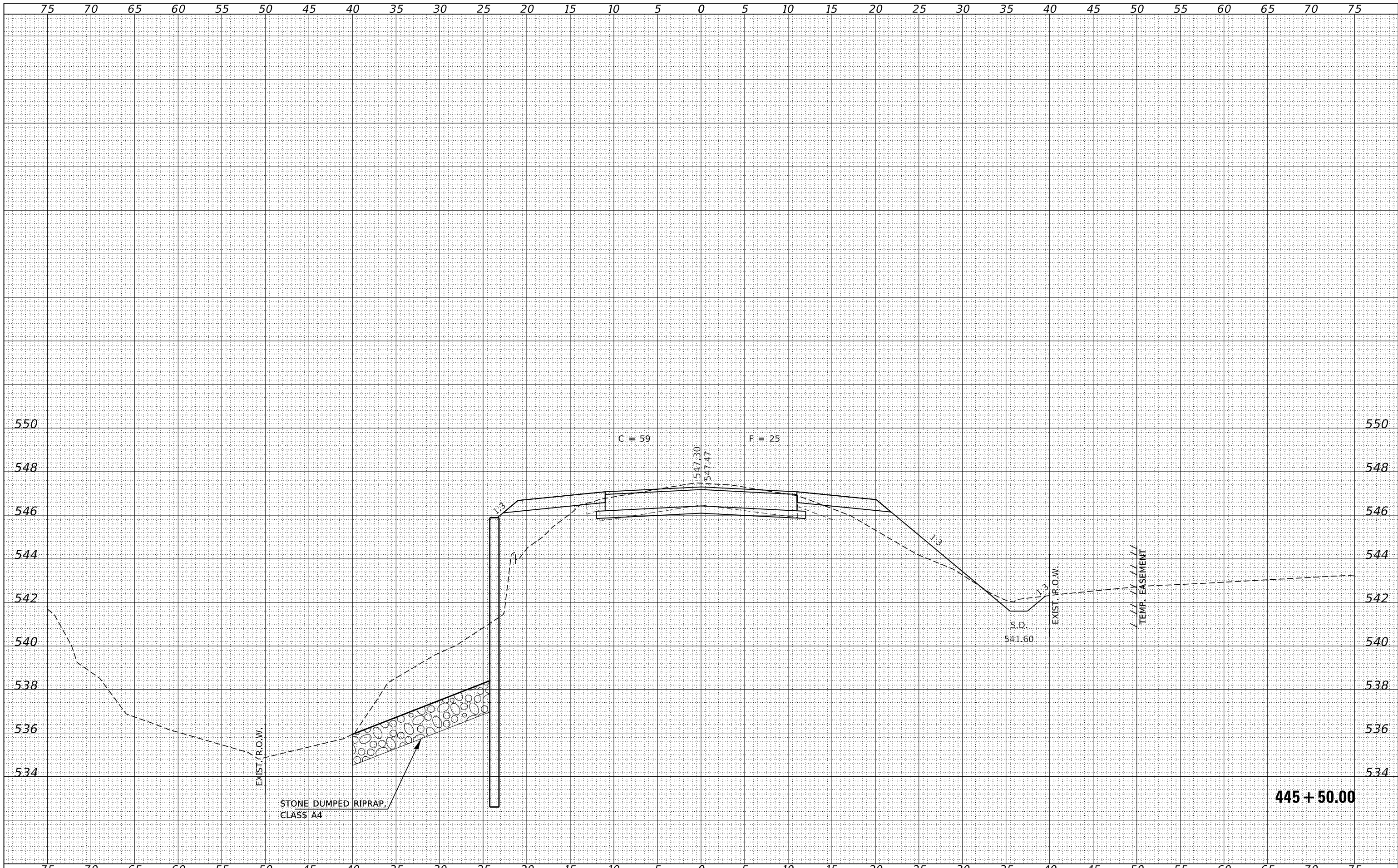


ILLINOIS FED. AID PROJECT OUF(348)



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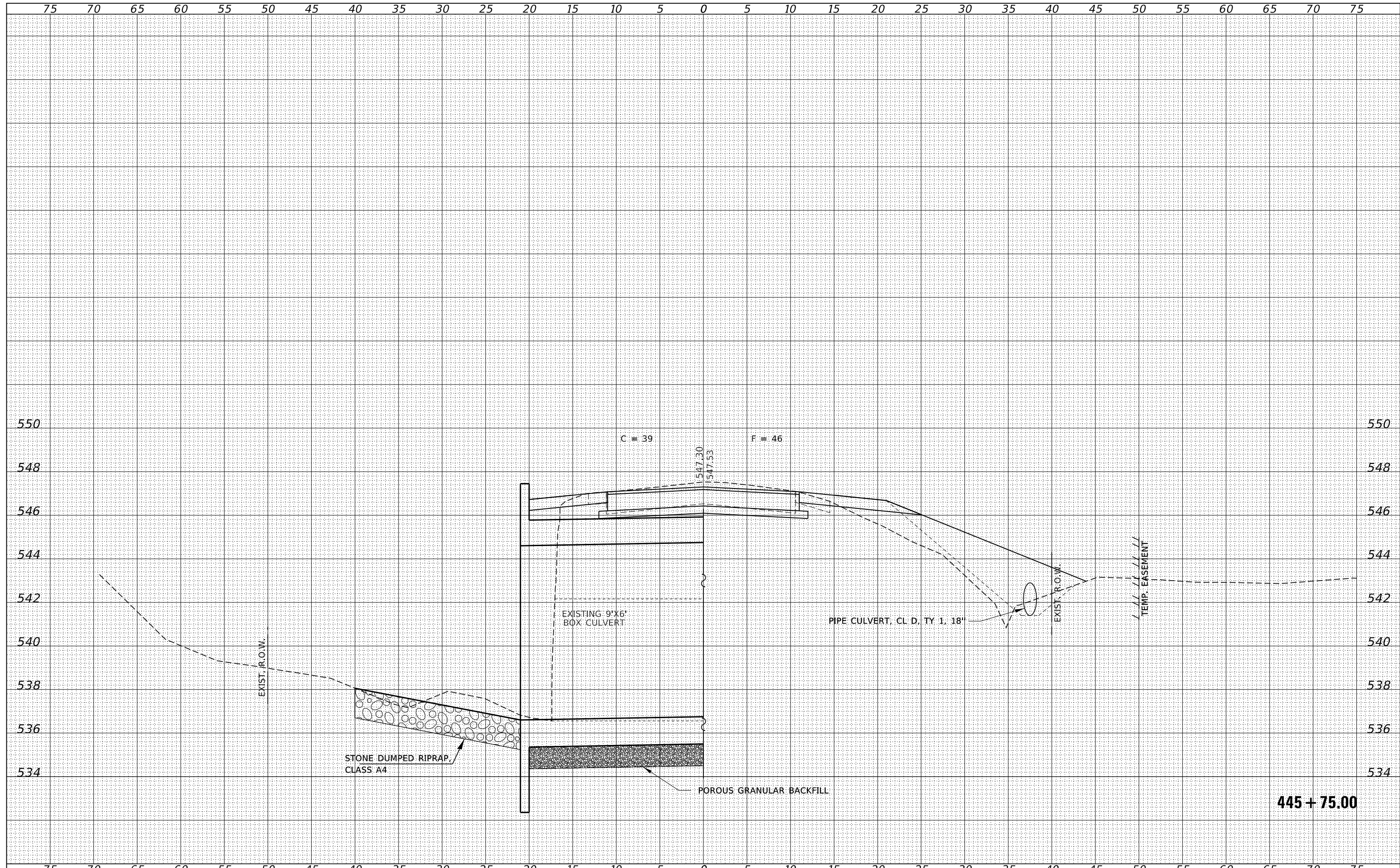


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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -					717	11-00120-01-DR	FAYETTE	38	29
PLOT DATE = 4/15/2021	CHECKED - S.W.M.	REVISED -	REVISED -		ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897				
	DATE - 04/13/2021	REVISED -	REVISED -		SCALE: 5H:2V	SHEET NO. 4 OF 13 SHEETS	STA. 445+50.00 TO STA. 445+50.00	ILLINOIS FED. AID PROJECT OUF(348)				

**445 + 50.00**

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NOTE BOOK	PLOTTED
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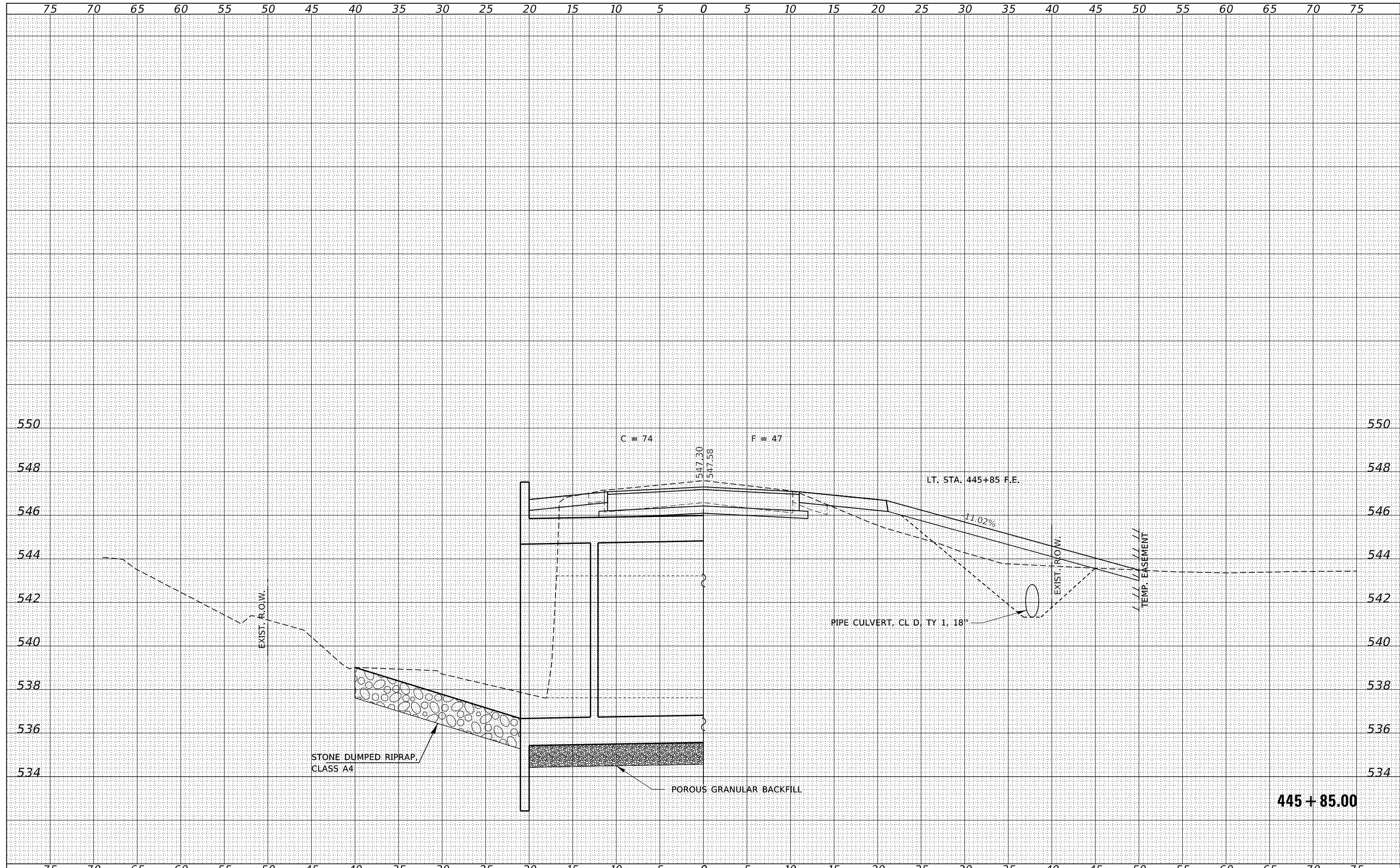
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FILE NAME = 180571-shl-xsec-446.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REVISIONS	<b>STATE OF ILLINOIS</b> <b>FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISIONS		717	11-00120-01-DR	FAYETTE	38	30			
PLOT DATE = 4/15/2021	CHECKED - S.W.M.	REVISIONS	REVISIONS		ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897				
	DATE - 04/13/2021	REVISIONS	REVISIONS		SCALE: 5H:2V	SHEET NO. 5 OF 13 SHEETS	STA. 445+75.00 TO STA. 445+75.00	ILLINOIS FED. AID PROJECT OUF(348)				

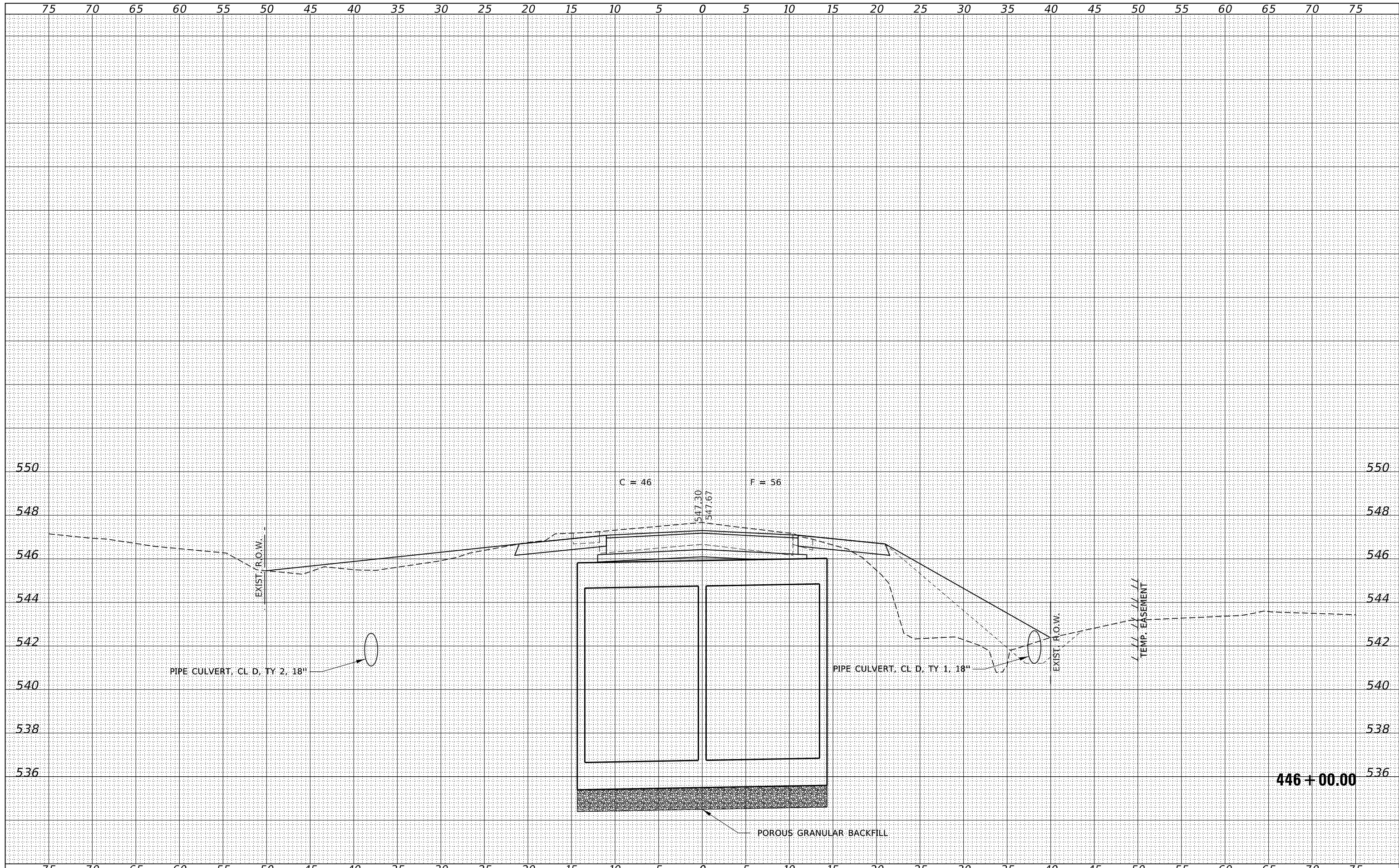
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FILE NAME = 180571-shl-xsec-446.dgn  
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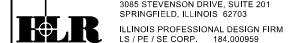
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 DATE - 04/13/2021

STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

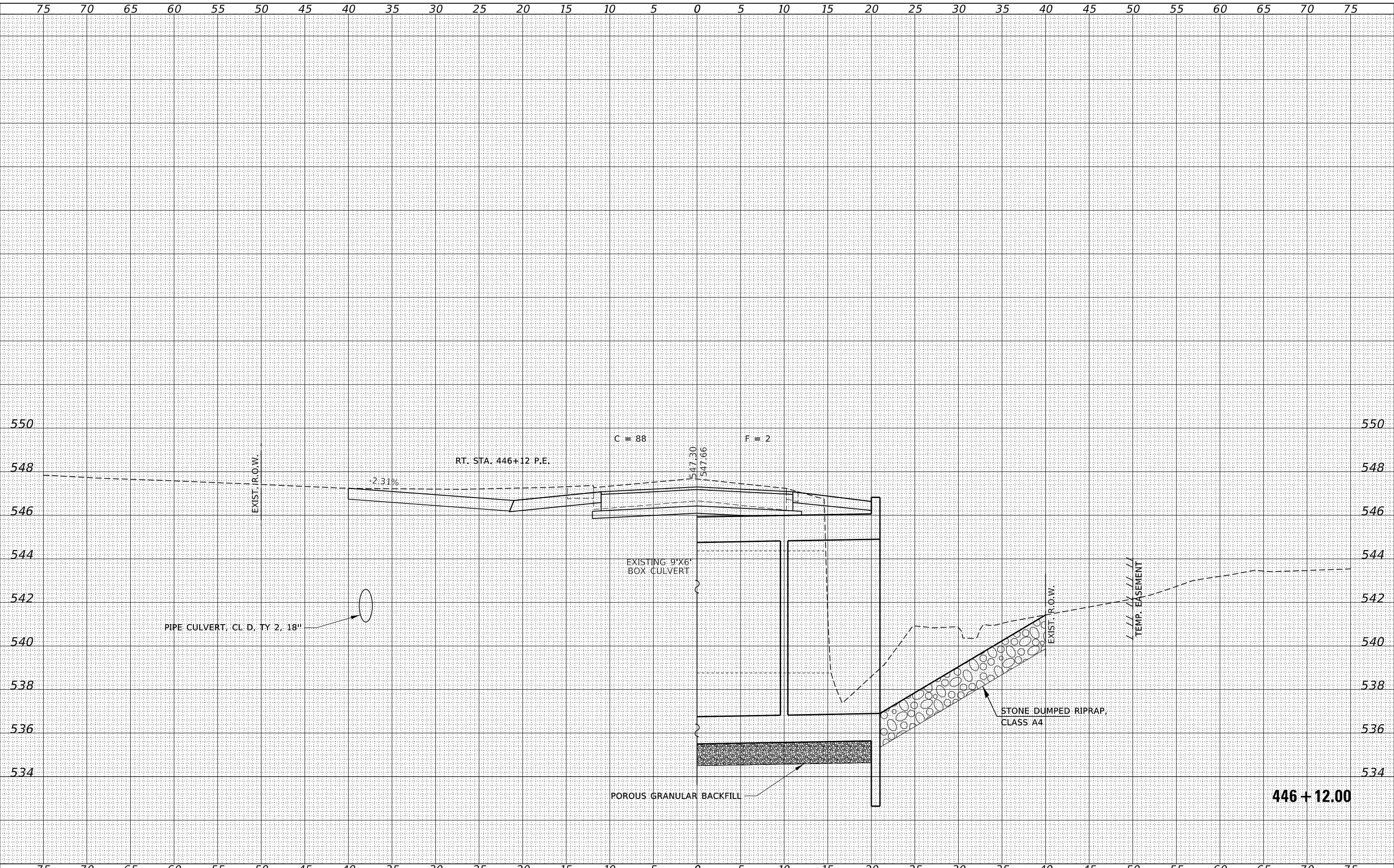
STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 7 OF 13 SHEETS  
 STA. 446+00.00 TO STA. 446+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	32
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OULF(348)				



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FINAL SURVEY NO.	
NOTE BOOK NO.	

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ORIGINAL SURVEY NO.	
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FILE NAME = 180571-shl-xsec-446.dgn  
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 DESIGNED - J.W.F.  
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 DATE - 04/13/2021  
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 PLOT DATE = 4/15/2021

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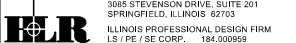
**STATE OF ILLINOIS**  
**FAYETTE COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

SCALE: 5H:2V SHEET NO. 8 OF 13 SHEETS STA. 446+12.00 TO STA. 446+12.00

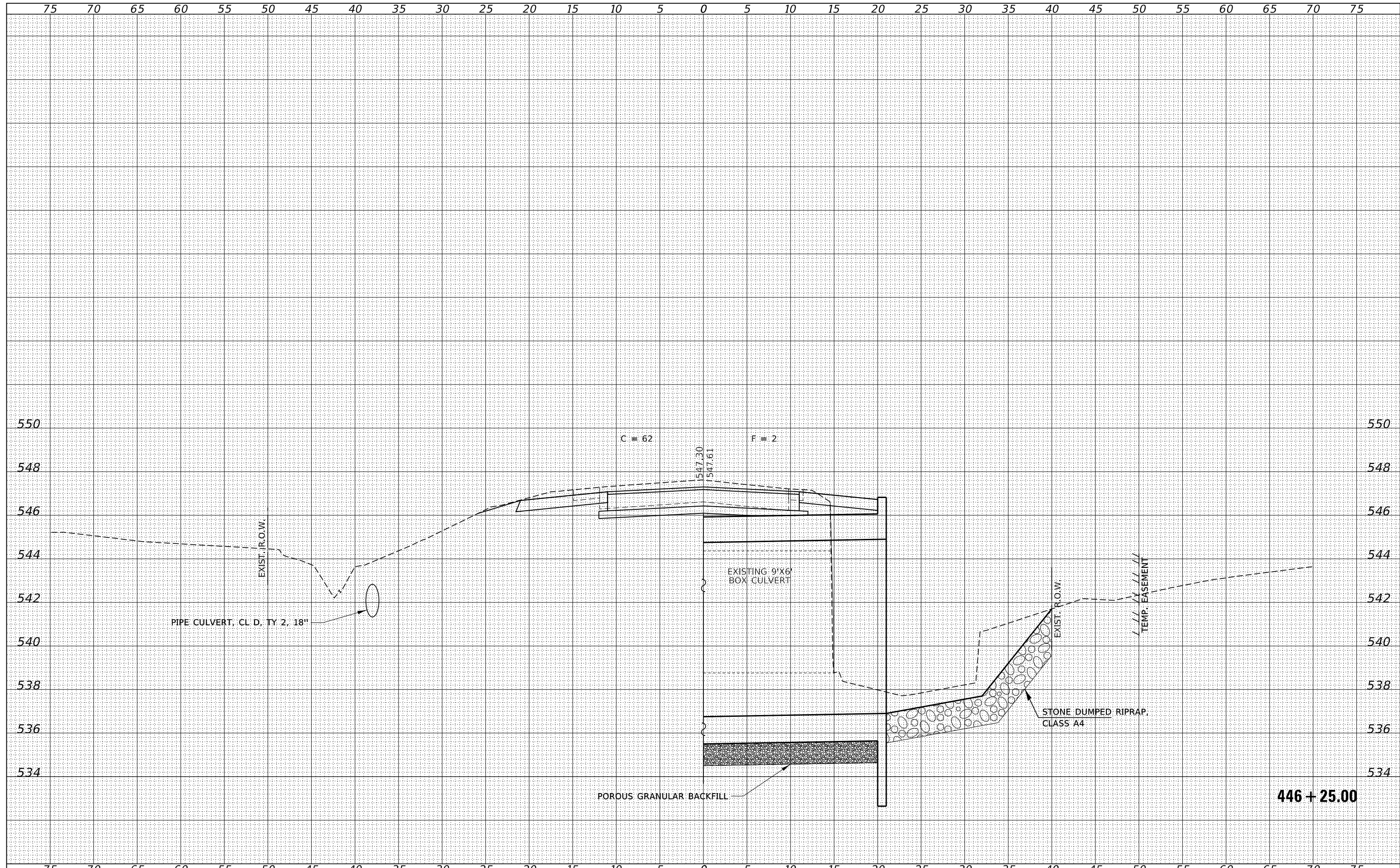
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	33
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	

ILLINOIS FED. AID PROJECT OUF(348)



DATE	
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FINAL SURVEY	
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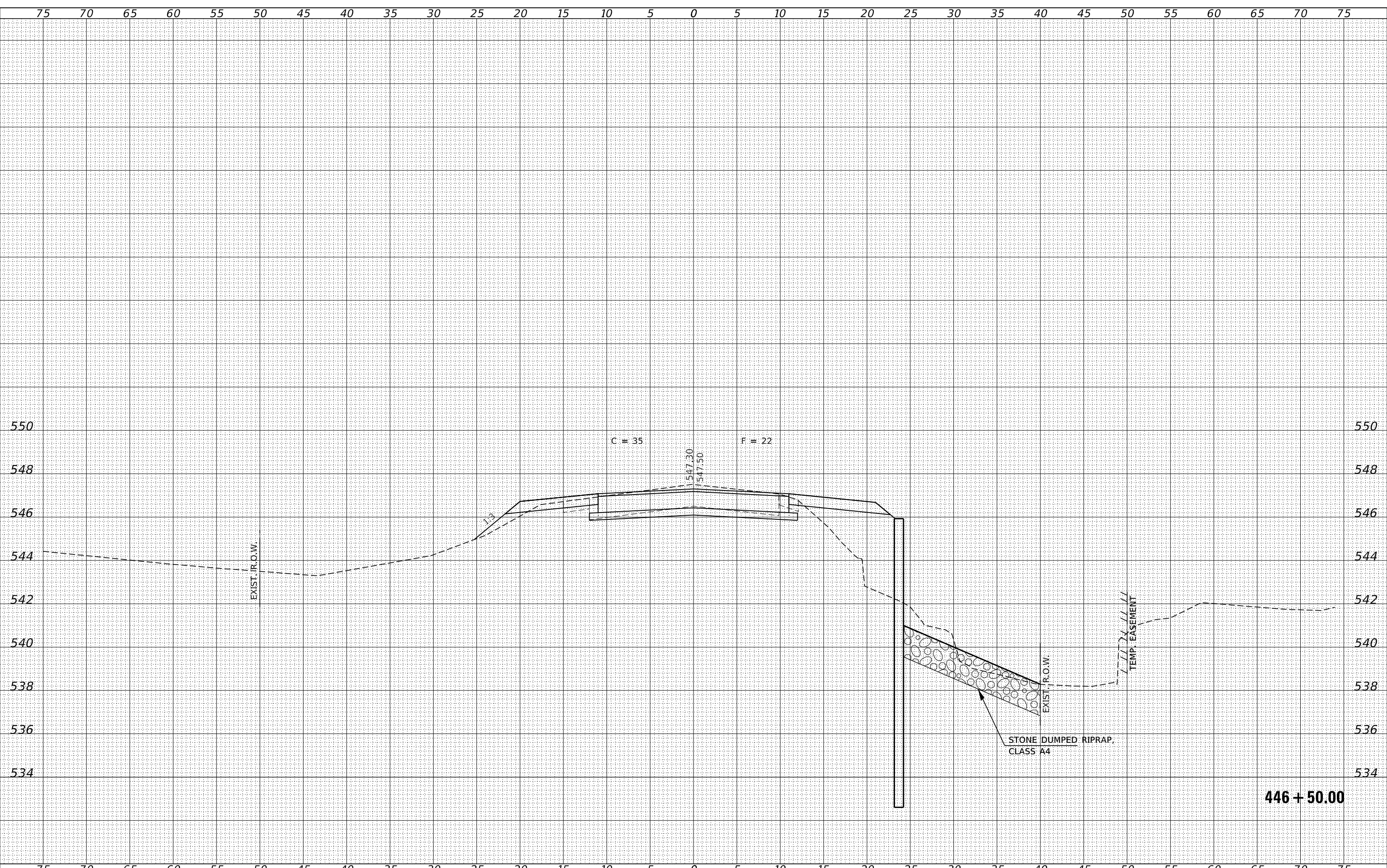


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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REvised -		717	11-00120-01-DR	FAYETTE	38	34			
PLOT DATE = 4/15/2021	CHECKED - S.W.M.	REvised -	SCALE: 5H:2V		SHEET NO. 9	OF 13 SHEETS	STA. 446+25.00	TO STA. 446+25.00	CONTRACT NO. 95897			
DATE - 04/13/2021	REvised -	ILLINOIS	FED. AID PROJECT OUF(348)									



BY	DATE

ORIGINAL SURVEY	NOTED



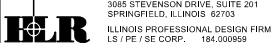
FILE NAME = 180571-shl-xsec-446.dgn  
 USER NAME = mosick  
 DESIGNED - J.V.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 4/15/2021

DESIGNED - J.V.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021

STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

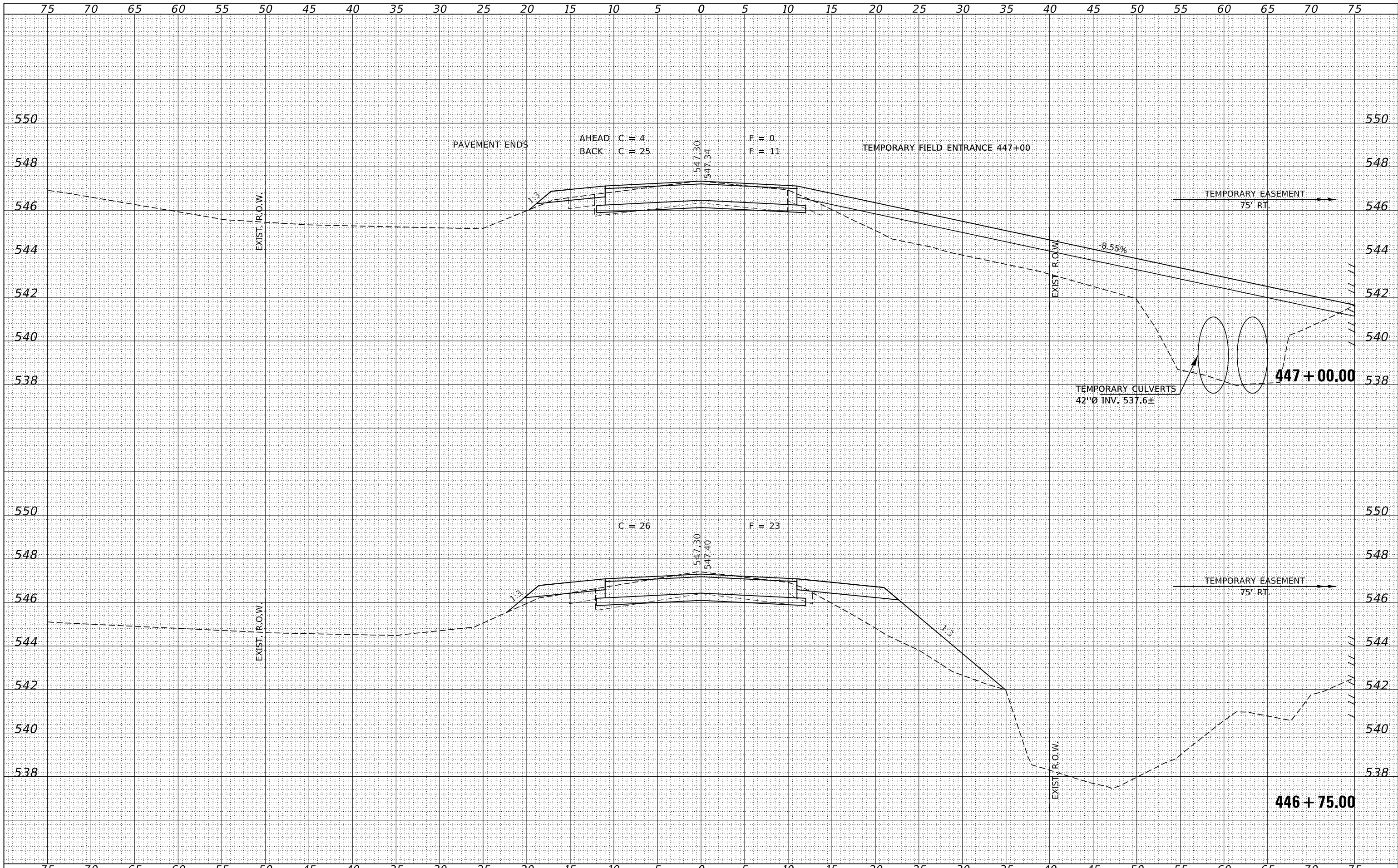
STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 10 OF 13 SHEETS  
 STA. 446+50.00 TO STA. 446+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	35
ST. PETER ROAD / C.H. 23		CONTRACT NO. 95897		
ILLINOIS FED. AID PROJECT OUF(348)				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

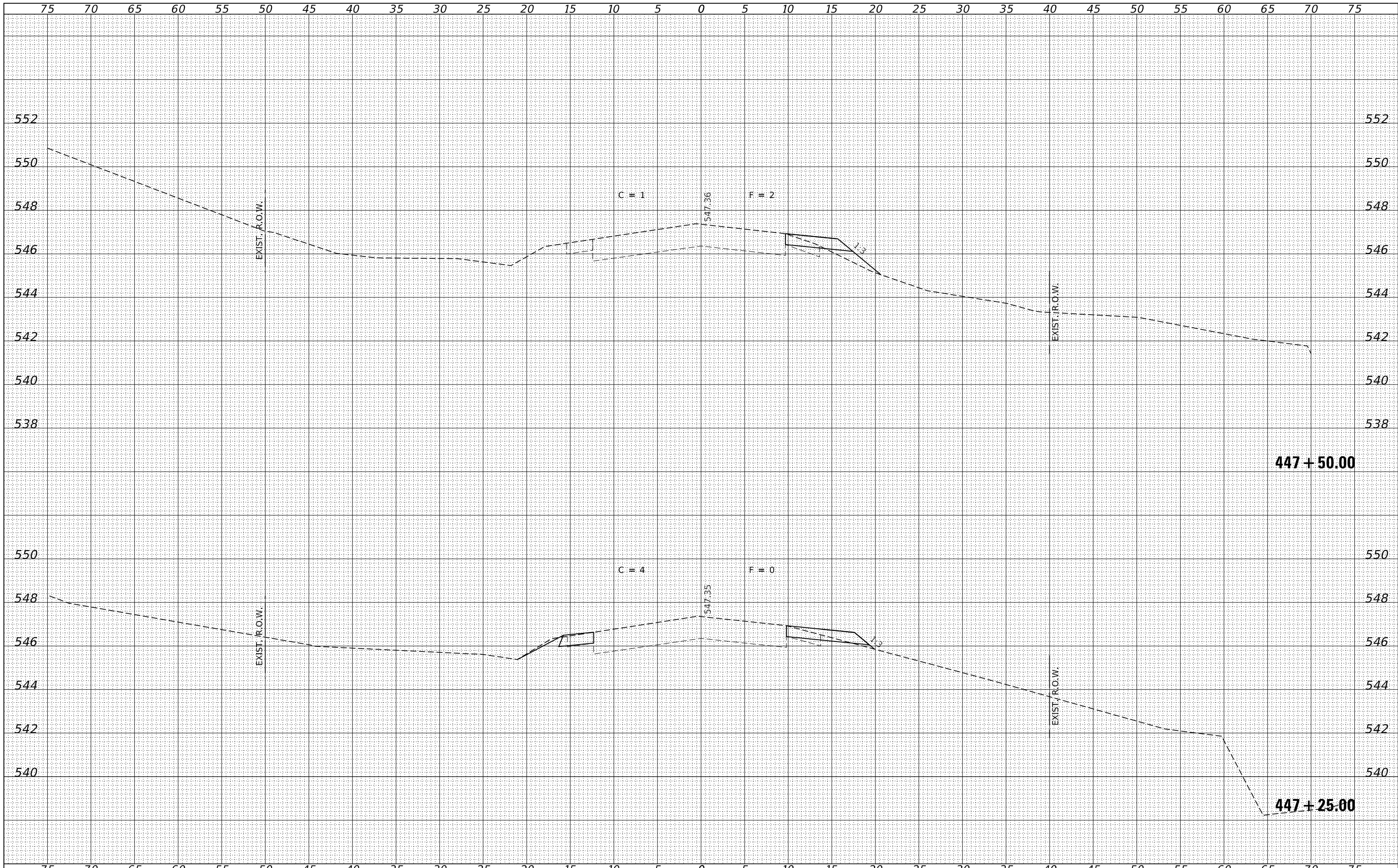
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 180571-shl-xsec-446.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REvised -	<b>STATE OF ILLINOIS</b> <b>FAYETTE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REvised -		717	11-00120-01-DR	FAYETTE	38	36			
PLOT DATE = 4/15/2021	DATE - 04/13/2021	CHECKED - S.W.M.	REvised -		SCALE: 5H:2V		SHEET NO. 11 OF 13 SHEETS		ST. PETER ROAD / C.H. 23	CONTRACT NO. 95897	ILLINOIS FED. AID PROJECT OULF(348)	
		DATE - 04/13/2021	REvised -		STA. 446+75.00 TO STA. 447+00.00							

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

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



FILE NAME = 180571-shl-xsec-446.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184-009958

USER NAME = rmosck  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 4/15/2021

DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

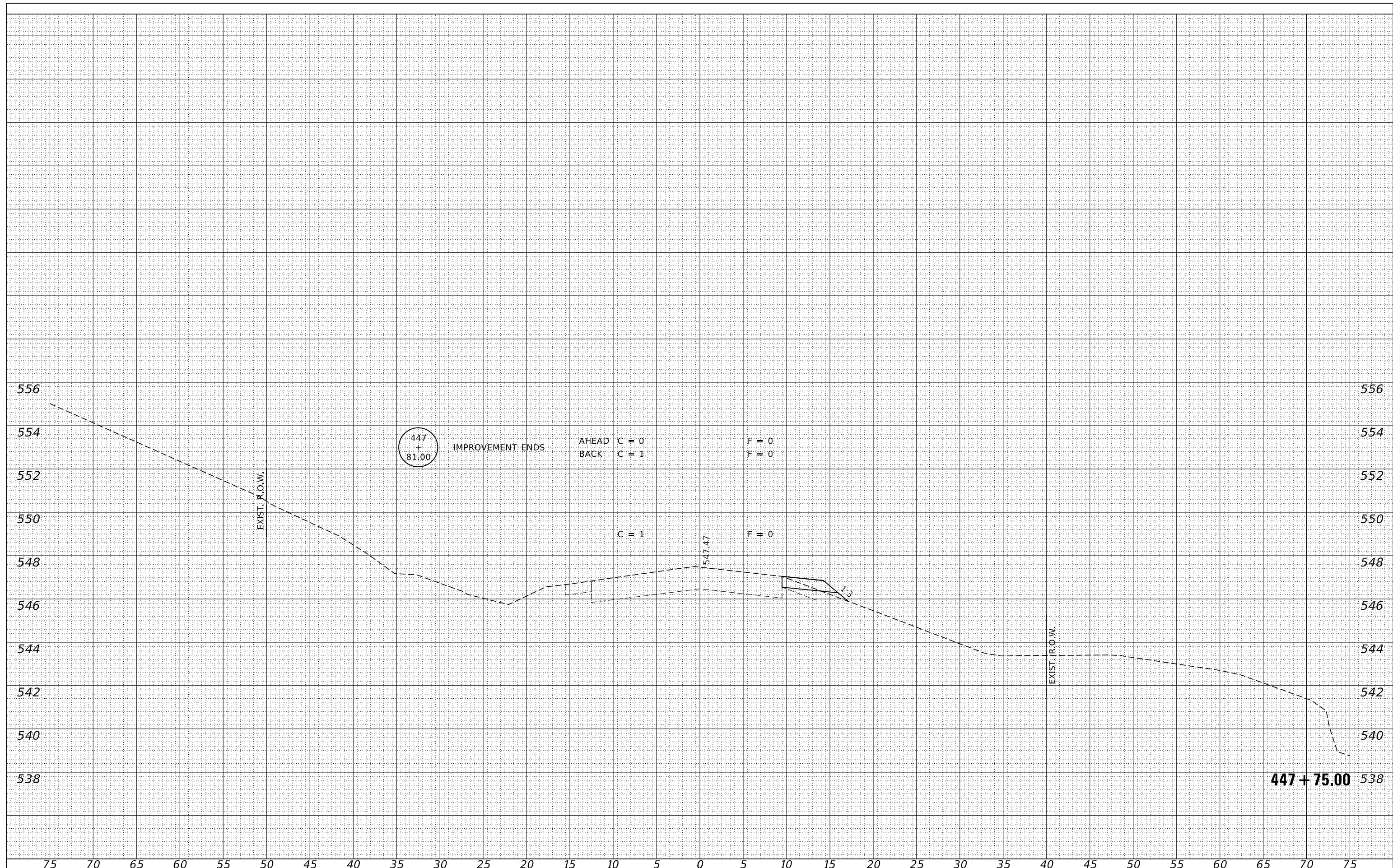
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 12 OF 13 SHEETS STA. 447+25.00 TO STA. 447+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	37
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OUF(348)				

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

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



FILE NAME = 180571-shl-xsec-446.dgn  
 USER NAME = rmosck  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021  
 PLOT SCALE = \$S\$CALES  
 PLOT DATE = 4/15/2021

DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 04/13/2021

STATE OF ILLINOIS  
 FAYETTE COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 13 OF 13 SHEETS  
 STA. 447+25.00 TO STA. 447+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	11-00120-01-DR	FAYETTE	38	38
ST. PETER ROAD / C.H. 23			CONTRACT NO. 95897	
ILLINOIS FED. AID PROJECT OUL(348)				

