06-11-2021 LETTING ITEM 197

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM - BRIDGE

SECTION 19-00124-00-BR LAWRENCE COUNTY

PROJECT J0J7(421)

JOB NO. C-97-132-21

CH-11

NOTE: SCALES VALID FOR 24" X 35" SHEETS

PLAN

PROFILE HOR.

PROFILE VERT. CROSS SECTIONS HOR.

VERT.

50'

50'

10'

100

100'

10

20

INDEX OF SHEETS

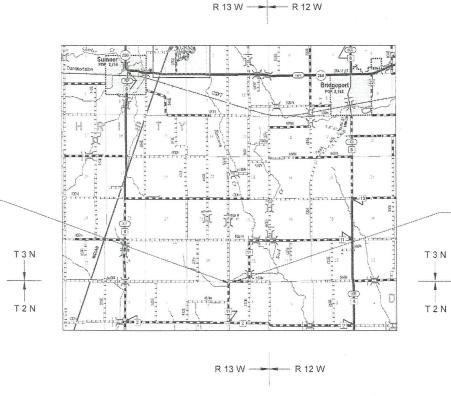
SHEET	ITEM
1	COVER SHEET
2	SUMMARY OF QUANTITIES
3	ROADWAY PLAN AND PROFILE
4	GENERAL PLAN AND ELEVATION
5	SUPERSTRUCTURE
6	SUPERSTRUCTURE DETAILS
7	STEEL RAILING, TYPE S-1
8	STEEL RAILING, TYPE S-1 DETAILS
9	ABUTMENT DETAILS
10	PILE DETAILS
11	BORING LOGS
12-15	CROSS SECTIONS

STANDARD DRAWINGS STANDARD 00001-08 STANDARD 280001-07 STANDARD 515001-04 STANDARD 515001-04 STANDARD 6530301-09 STANDARD 725001-01 STANDARD BLR 21-9 STANDARD BLR 23-4 STANDARD BLR 25-3

STANDARD BLR 27-1

SECTION 19-00124-00-BR BEGINS STA. 7+00.00 ----

SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE 58'-15'' GK-- BK. ABUTMENTS STEEL I PILE / SPILLTHROUGH ABUTMENTS 28' WIDE DECK EXISTING STRUCTURE NO. 051-5018 PROPOSED STRUCTURE NO. 051-3311



CONTRACT NO. 95894

Joint Utility Locating Information for Excavat

JULIE 1-800-892-0123



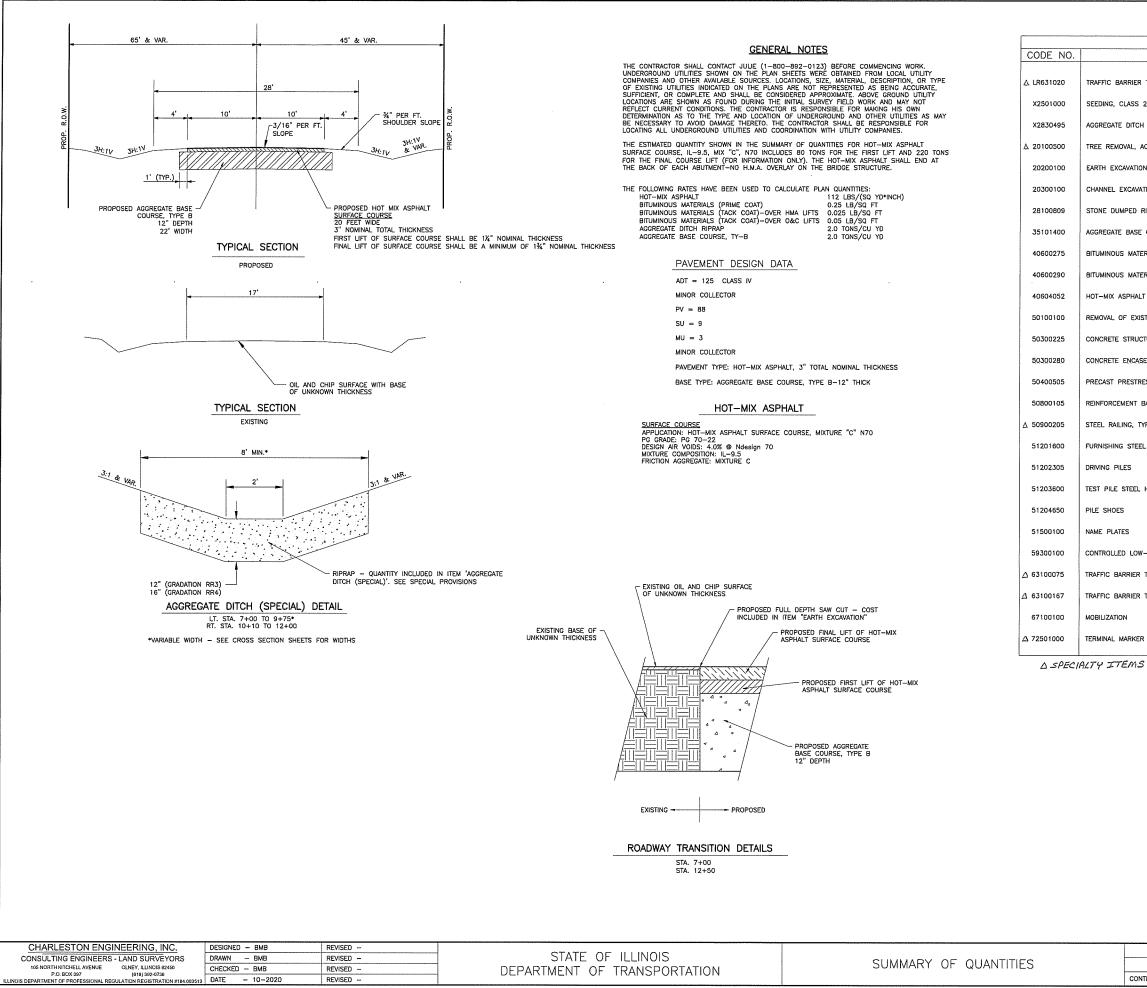
- SECTION 19-00124-00-BR ENDS STA. 12+50.00



CONTRACT NO. 95894 FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR ADT = 125 DESIGN SPEED = 40 MPH

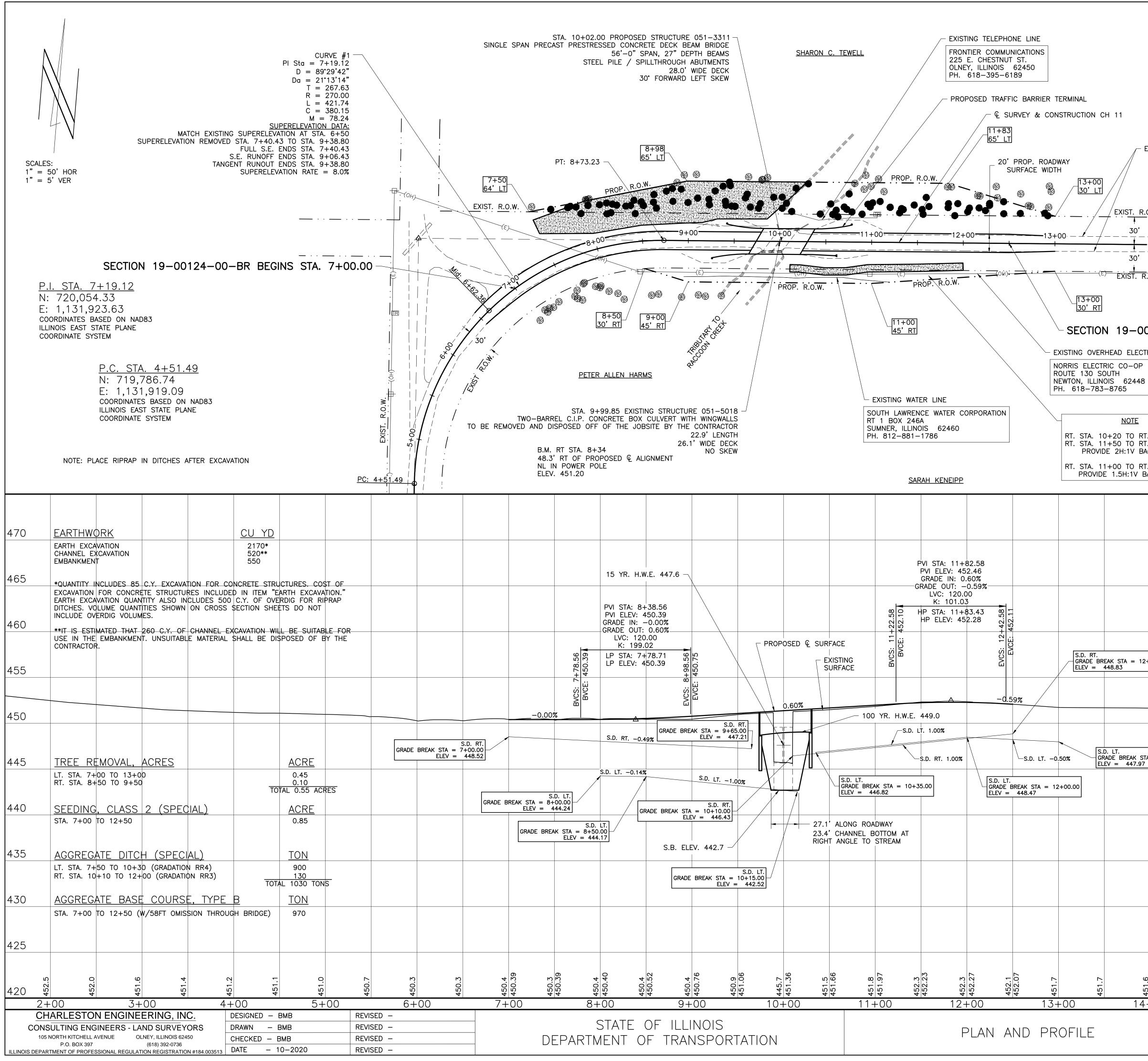
NET LENGTH SECTION 19-00124-00-BR = 550.00 Ft. = 0.104 Mi.

ROUTE	SECTION 19-00124-00-BR	COUN	 TOTAL SHEETS 15	SHEE NO
CH-11 CONTRACT S		ILLINOIS	 J0J7(421)	L
	PROJECT LOCATION			
	CHARLESTON E CONSULTIN	G ENGI		
	P.O. BC OLNEY	ILLINOIS 624		
	(818) 35 LINOIS DEPARTMENT OF PROFESSION PPROVED March Aaunt COUN	4 HA Mall HA Mall TY ENGINE	 ION #184.003513 ZO 2.[
	STATE (DEPARTMENT O	OF ILLINOI F TRANSP	N	
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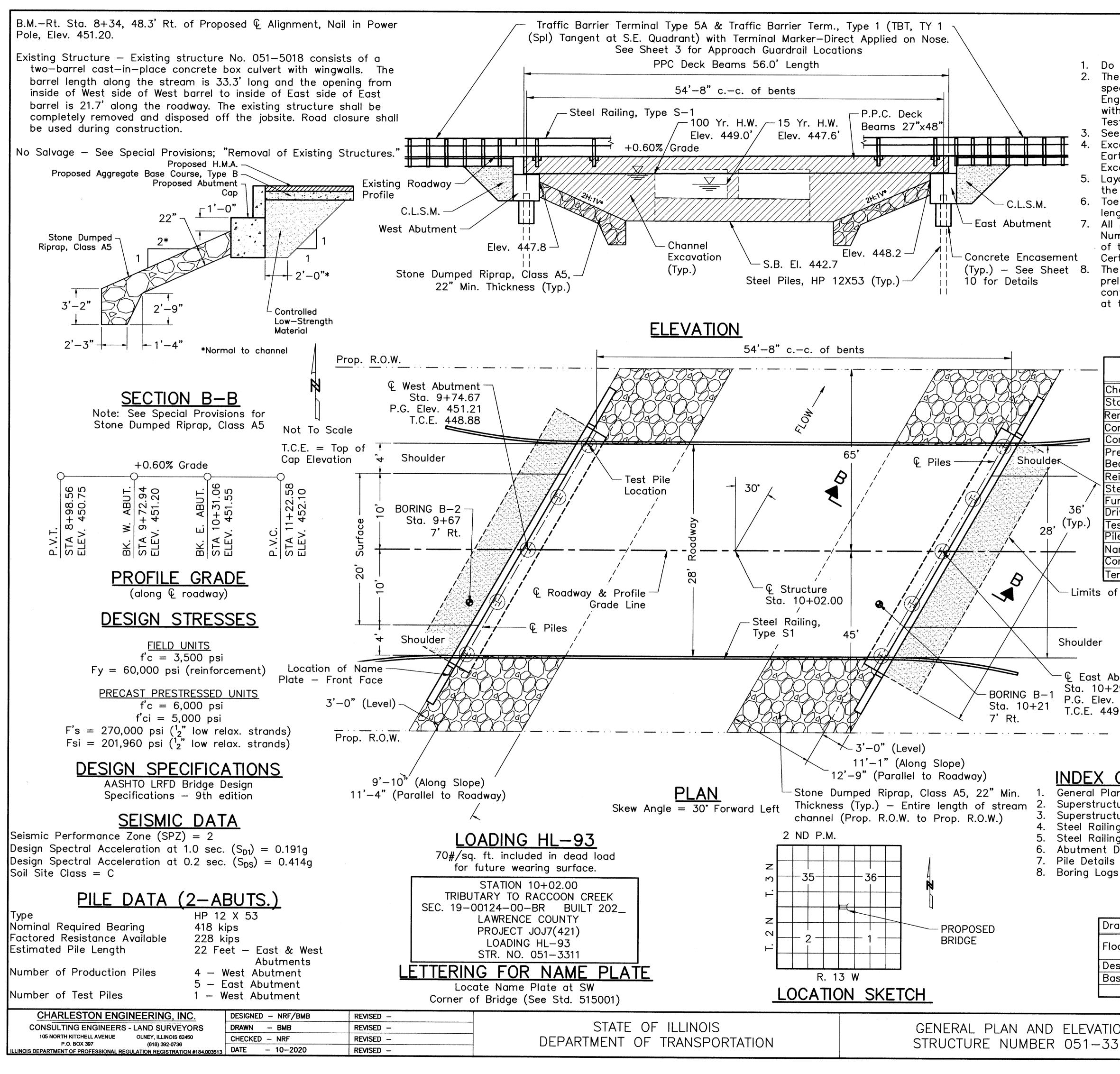


SUMMARY OF QUANTITIES	11611-	OLIANT
ITEM	UNIT	QUANTITY
RAFFIC BARRIER TERMINAL, TYPE 1	EACH	3
EEDING, CLASS 2 (SPECIAL)	ACRE	0.85
GGREGATE DITCH (SPECIAL)	TON	1030
REE REMOVAL, ACRES	ACRE	0.55
ARTH EXCAVATION	CU YD	2170
CHANNEL EXCAVATION	CU YD	520
TONE DUMPED RIPRAP, CLASS A5	TON	570
GGREGATE BASE COURSE, TYPE B	TON	970
ITUMINOUS MATERIALS (PRIME COAT)	POUND	2470
ITUMINOUS MATERIALS (TACK COAT)	POUND	750
IOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	300
EMOVAL OF EXISTING STRUCTURES	EACH	1
CONCRETE STRUCTURES	CU YD	34.8
CONCRETE ENCASEMENT	CU YD	3.5
RECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1568
EINFORCEMENT BARS	POUND	4460
TEEL RAILING, TYPE S1	FOOT	116
URNISHING STEEL PILES HP12X53	FOOT	198
RIVING PILES	FOOT	198
EST PILE STEEL HP12X53	EACH	1
ILE SHOES	EACH	9
AME PLATES	EACH	1
ONTROLLED LOW-STRENGTH MATERIAL	CU YD	60
RAFFIC BARRIER TERMINAL, TYPE SA	EACH	4
RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
IOBILIZATION	L. SUM	1
ERMINAL MARKER - DIRECT APPLIED	EACH	4

 ROUTE	SECTION		NTY	TOTAL SHEETS	SHEET NO.
CH-11 19-00124-00-BR		LAWRENCE		15	2
CONTRACT 95894		ILLINOIS		T JOJ7(421)	



P.O.T. STA. 12+50.00 N: 720,049.07 E: 1,132,568.02 COORDINATES BASED ON NAD83 ILLINOIS EAST STATE PLANE COORDINATE SYSTEM - EXISTING E.P. [/] EXIST. R.O.W. 30 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ - SECTION 19-00124-00-BR ENDS STA. 12+50.00 HATCH LEGEND EXISTING OVERHEAD ELECTRIC LINE PROPOSED AGGREGATE DITCH (SPECIAL) <u>NOTE</u> RT. STA. 10+20 TO RT. STA. 11+00 TREE REMOVAL RT. STA. 11+50 TO RT. STA. 12+50 PROVIDE 2H:1V BACKSLOPE RT. STA. 11+00 TO RT. STA. 11+50 PROVIDE 1.5H:1V BACKSLOPE <u>EACH</u> 470 TRAFFIC BARRIER TERMINAL. TYPE 5A RT. STA. 9+51.67 TO 9+64.92 LT. STA. 9+67.83 TO 9+81.08 RT. STA. 10+22.92 TO 10+36.17 LT. STA. 10+39.08 TO 10+52.33 TOTAL 4 EACH 465 TRAFFIC BARRIER TERMINAL TYPE 1 <u>EACH</u> 460 RT. STA. 9+26.94 TO 9+51.67 LT. STA. 9+56.35 TO 9+81.08 LT. STA. 10+52.33 TO 10+77.06 TOTAL 3 EACH GRADE BREAK STA = 12+50.00455 TRAFFIC BARRIER TERMINAL, TYPE 1 <u>EACH</u> 450 (SPECIAL) TANGENT RT. STA. 10+36.17 TO 10+60.90 S.D. LT. GRADE BREAK STA = 13+00.00 445 ELEV = 447.97440 435 430 425 420 14+00 15 + 0016 + 0017 + 0018 + 00SHEET IOTAL ROUTE SECTION COUNTY NO. SHEETS 19-00124-00-BR LAWRENCE CH 11 15 3 CONTRACT 95894 ILLINOIS | PROJECT J0J7(421)



GENERAL NOTES

- Do not scale sheets 4-11. 2. The Contractor shall drive the test pile to 110% of the nominal required bearing specified in production locations at the West Abutment or as approved by the Engineer before ordering the remainder of piles. The test pile shall be equipped with a steel pile shoe, and the cost of the pile shoe shall be included in item Test Pile Steel HP 12 X 53.
- See Sheet 11 for boring logs.
- Excavation required to construct the Abutments shall be included in the cost of Earth Excavation. No additional compensation will be allowed for Structure Excavation.
- 5. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 6. Toe stone riprap treatment as shown in Section B-B shall extend entire channel length from proposed R.O.W. north to proposed R.O.W. south.
- 7. All proposed construction activities shall be in accordance with Nationwide Permit Number 13 and 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The EPA has issued Section 401 Water Quality Certification for this activity.
- The existing structure was investigated for presence of asbestos during the preliminary design phase and was found to NOT contain asbestos. Documentation confirming this finding was provided to the Illinois Department of Transportation at that time to clear this project for approval.

TOTAL	BILL	OF	MA	TERI	٩L

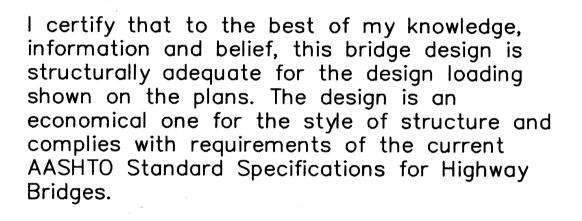
Item	Unit	Super	Su	b.	Total
		Super	Piers	Abuts.	τοται
Channel Excavation	Cu. Yd.			520	520
Stone Dumped Riprap, Class A5	Tons			570	570
Removal of Existing Structures	Each	-			1
Concrete Structures	Cu. Yd.	-		34.8	34.8
Concrete Encasement	Cu. Yd.		-	3.5	3.5
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1568		-	1568
Reinforcement Bars	Pound			4460	4460
Steel Railing, Type S1	Foot	116			116
Furnishing Steel Piles HP 12 X 53	Foot			198	198
Driving Piles	Foot		_	198	198
Test Pile Steel HP 12 X 53	Each		-	1	1
Pile Shoes	Each			9	9
Name Plates	Each	—		1	1
Controlled Low-Strength Material	Cu. Yd.			60	60
Terminal Marker — Direct Applied	Each	4			4

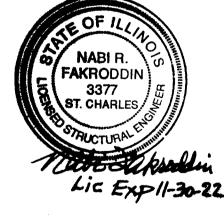
-Limits of CLSM

East Abutment Sta. 10+29.33 P.G. Elev. 451.54 T.C.E. 449.21

INDEX OF SHEETS

General Plan & Elevation Superstructure Superstructure Details Steel Railing, Type S1 5. Steel Railing, Type S1 Details Abutment Details

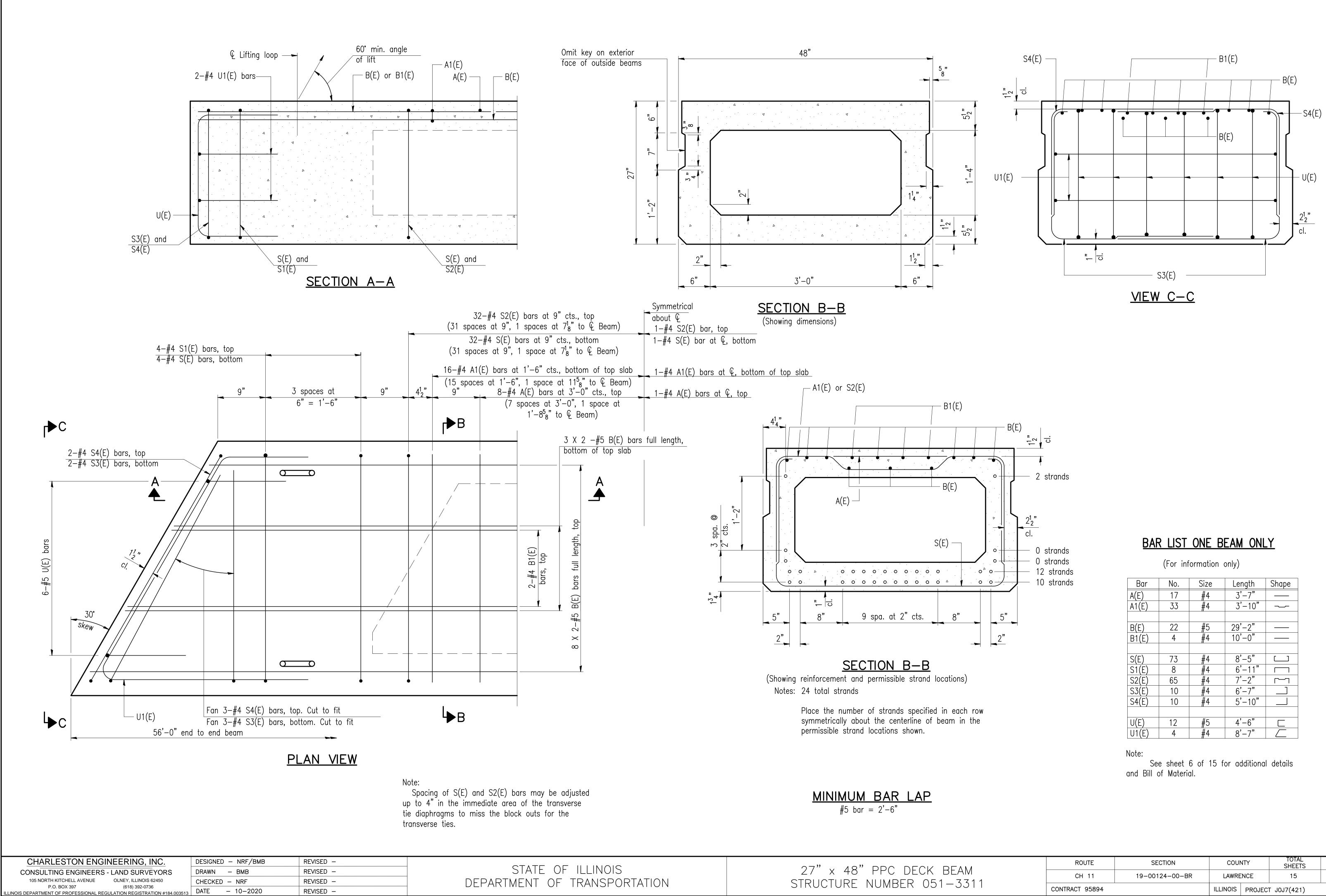




WATERWAY INFORMATION

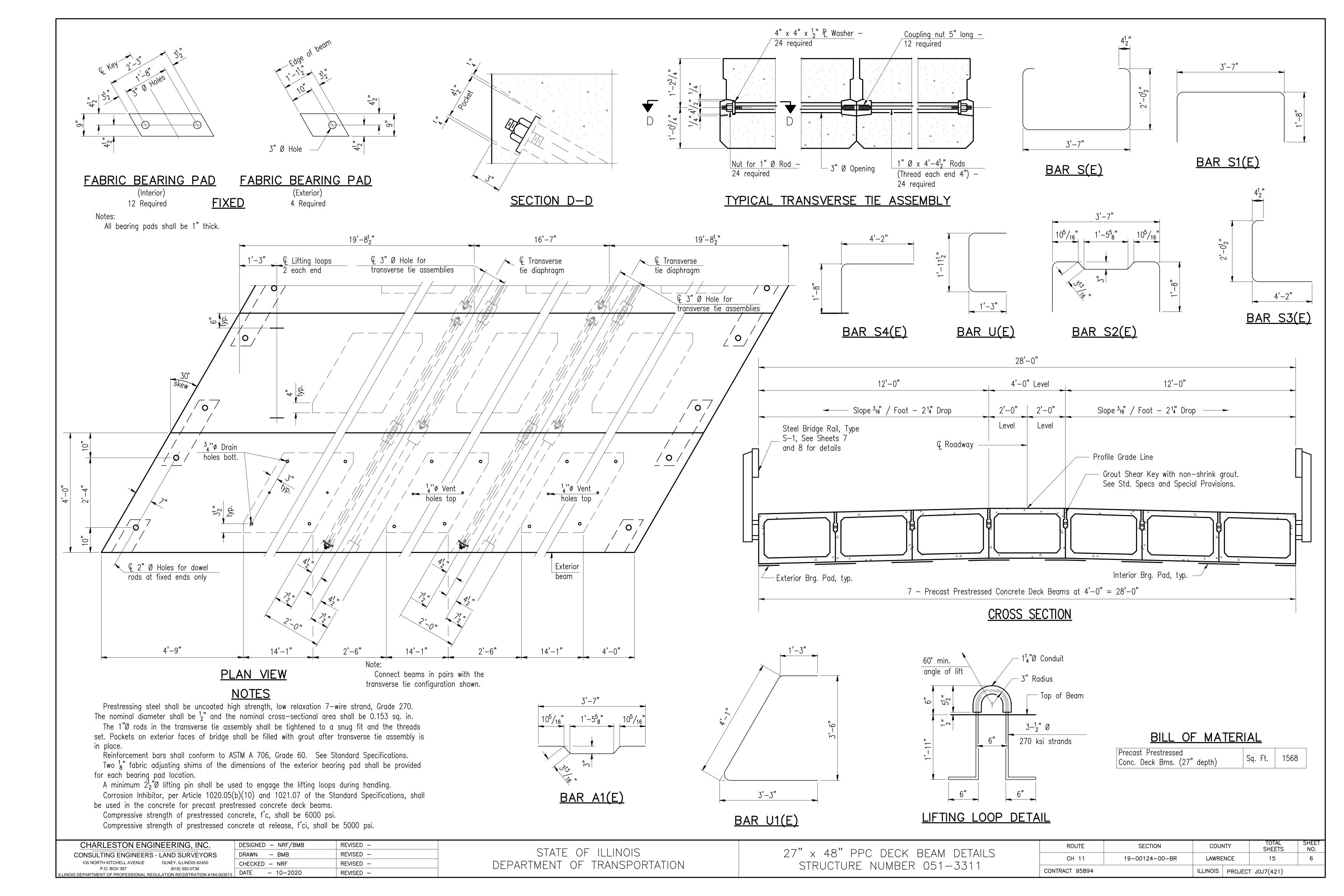
Drainage A	Ared = 1.2 S	ра.мі.	Low Grad	de Elev	= 450.	39 Sta	. 7+00	.00	
Flood	Freq.	Q.	Opening	Sq. Ft.	Nat.	Head	— Ft.	Headwa	ter El.
11000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	15	790	62.4		447.6		0.0	450.7	447.6
Base	100	1310	62.4	246.1	449.0	2.7	0.0	451.7	449.0

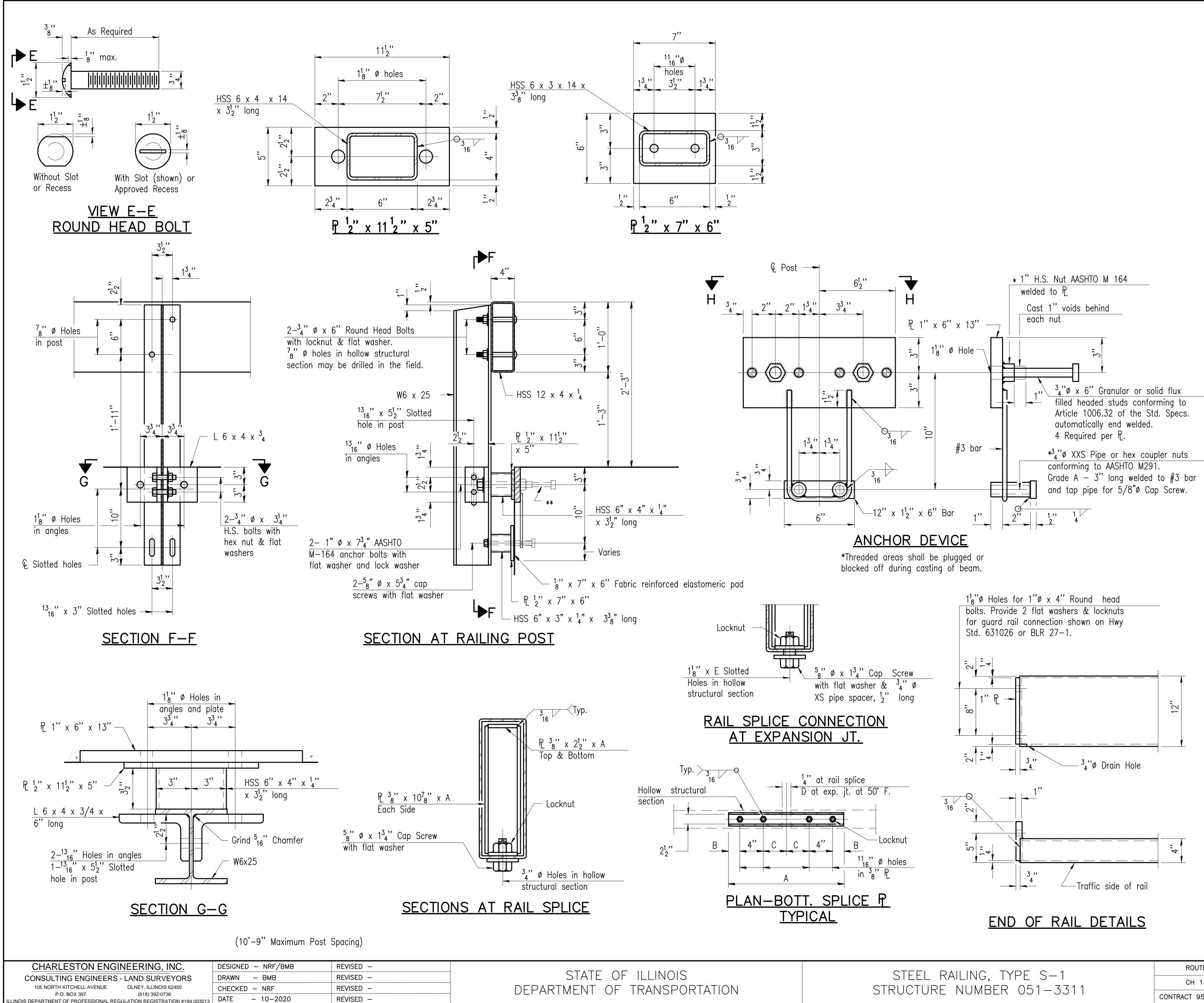
EVATION 51-3311	CONTRACT 95894	CONTRACT 95894			ILLINOIS PROJECT J0J7(421)		
	CH 11	19-00124-00-BR	LAWRENCE		15	4	
	ROUTE	SECTION	COU	NTY	TOTAL SHEETS	SHEET NO.	



STATE OF ILLINOIS	27" x 48" PPC DECK BEAM	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DEPARTMENT OF TRANSPORTATION		CH 11	19-00124-00-BR	LAWRENCE	15	5
DEFARIMENT OF TRANSFORTATION	STRUCTURE NUMBER 051-3311	CONTRACT 95894		ILLINOIS PROJEC	T JOJ7(421)	

Bar	No.	Size	Length	Shape
A(E)	17	#4	3'-7"	
A1(E)	33	#4	3'-10"	~
B(E)	22	#5	29'-2" 10'-0"	
B1(E)	4	#4	10'-0"	
S(E)	73	#4	8'-5"	
S1(E)	8	#4	6'-11"	
S2(E)	65	#4	7'-2" 6'-7"	Г Л
S3(E)	10	#4	6'-7"	
S4(E)	10	#4	5'-10"	
U(E)	12	# 5	4'-6" 8'-7"	
U1(E)	4	#4	8'-7"	\square





STATE OF ILLINOIS	STEEL RAILING,
DEPARTMENT OF TRANSPORTATION	STRUCTURE NUMBE

SPLICE DIMENSIONS

	Т	D	А	В	С	E
\leq	{ 4 "	2^{1}_{2} "	1'-8''	2"	4"	2^{1}_{2} "
>4"	$\leq 6_2^{1}$ "	3 ³ / ₄ ''	2'-0''	2 ¹ ₂ "	5 ¹ ''	3 ¹ ,"
$>6^{1}_{2}$ "	≤ 9 "	5"	2'-4''	$3_2^{1''}$	6^{1}_{2} ''	9
>9"	\leq 13"	7"	2'-10''	4 ¹ ''	8 ¹ ''	11"
Rail	Splice	1	1'-8''	2"	4"	

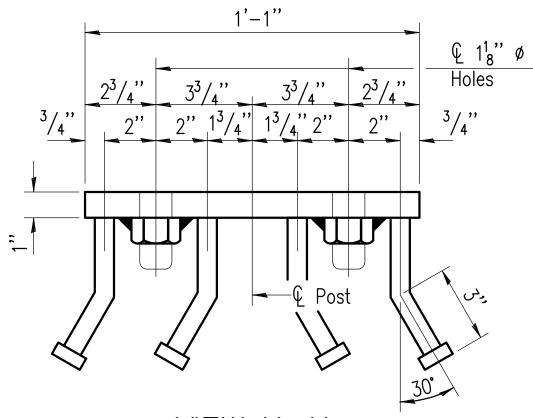
T = Total movement at expansion joint as shown on the design plans.

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.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

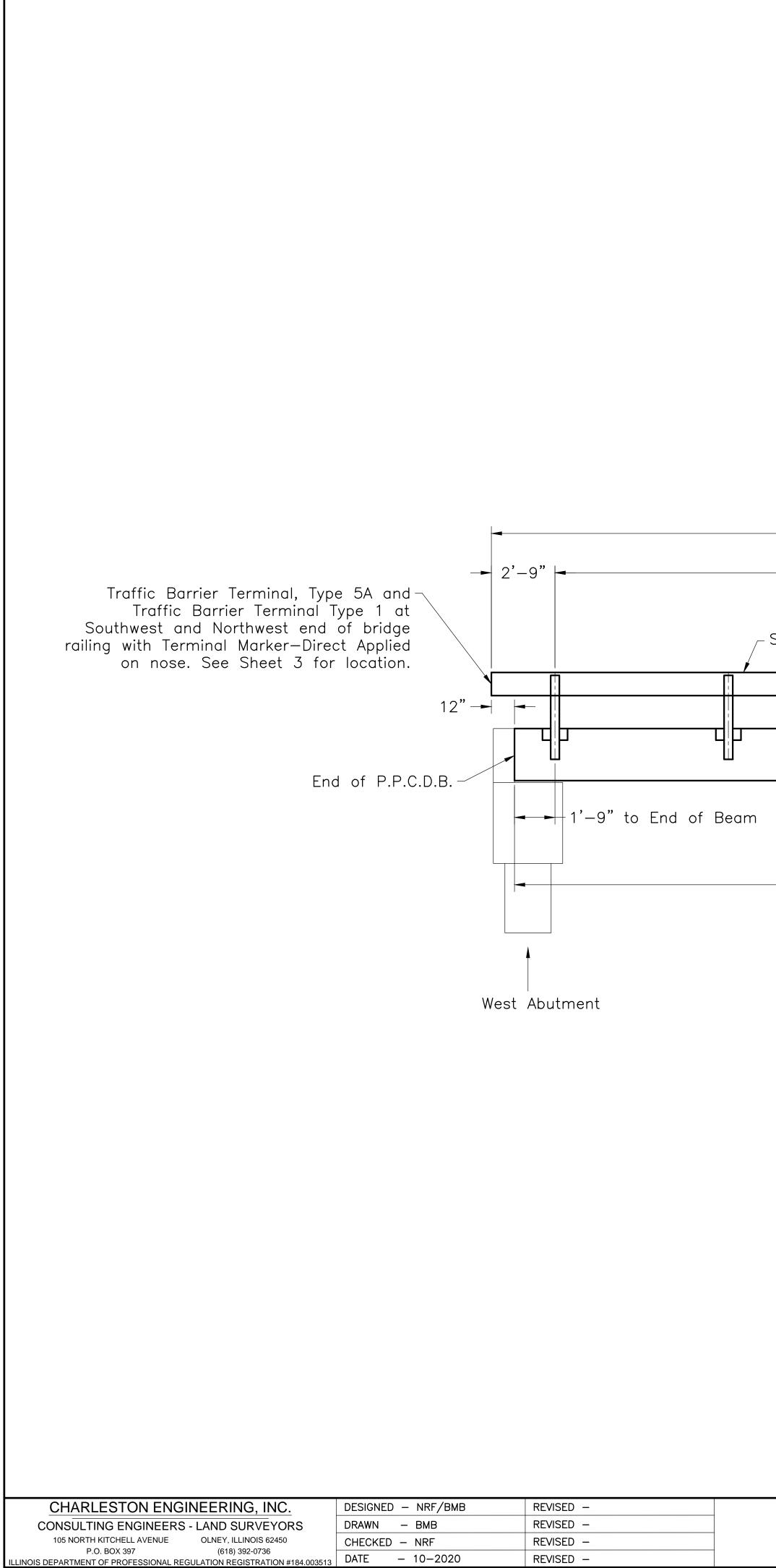


VIEW H-H

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	116

E S - 1	ROUTE	SECTION	COU	NTY	TOTAL SHEETS	SHEET NO.
	CH 11	19-00124-00-BR	LAWRE	INCE	15	7
51-5511	CONTRACT 95894		ILLINOIS	PROJEC	Г JOJ7(421)	



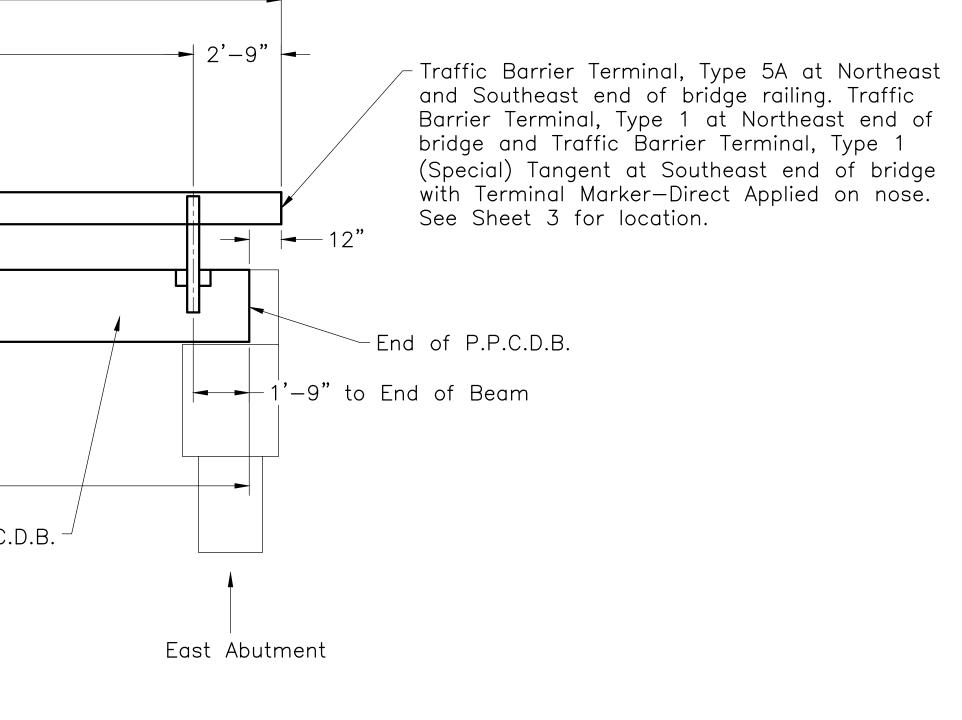
🗜 Beam — 🛏	
58'-0" End	to End Rail
7 Rail post Spaces	© 7'−6" = 52'−6"
Steel Railing, Type S1	
	$3'-9" - 4'-6\frac{1}{2}"$
56'-0" End t	to End Beam

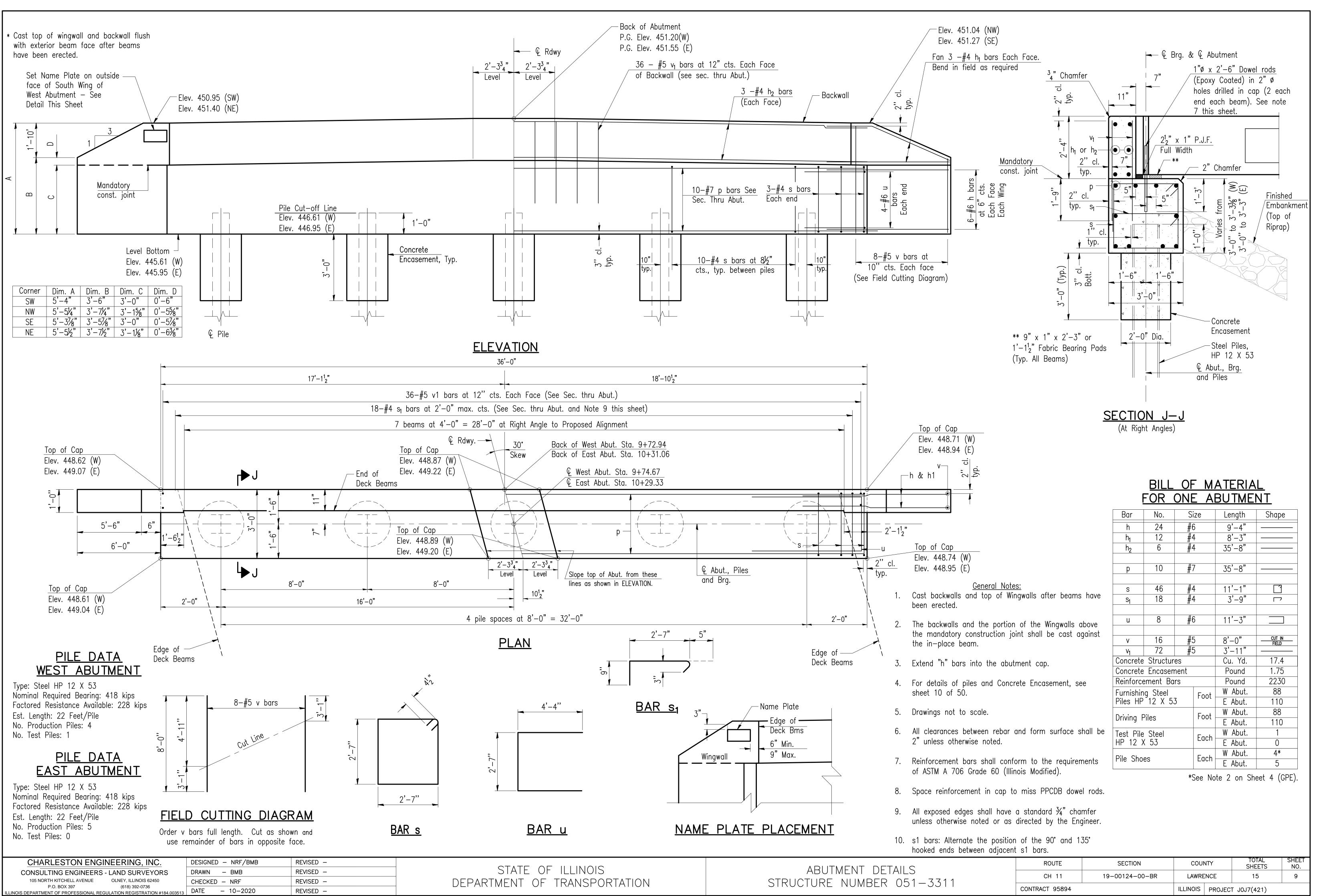
27"D x 48"W P.P.C.D.B.-

RAIL POST SPACING - SOUTH ELEVATION

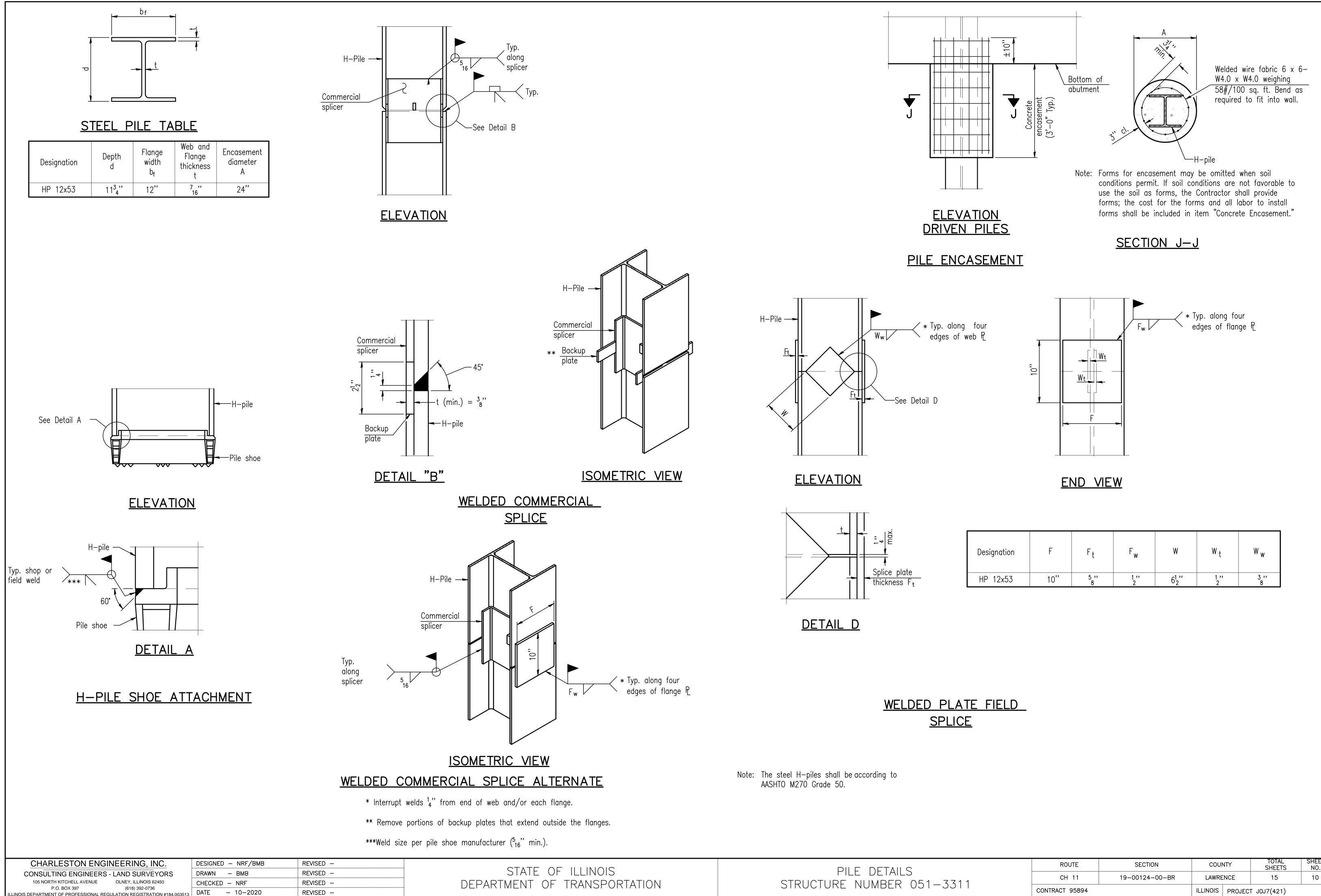
Not to Scale

STATE OF ILLINOIS	STEEL RAILING, TYPE S-1 DETAILS	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRUCTURE NUMBER 051-3311	CH 11	19-00124-00-BR	LAWRENCE	15	8
DEPARIMENT OF TRANSPORTATION	SIRUCIURE NUMBER USI-JJII	CONTRACT 95894		ILLINOIS PROJECT	T JOJ7(421)	





ILS	ROUTE	SECTION	COUI	NTY	TOTAL SHEETS	SHEE NO.
$1 \le 3 \le 1 \le 3 \le 1 \le 1 \le 1 \le 1 \le 1 \le 1 \le $	CH 11	19-00124-00-BR	LAWRE	INCE	15	9
JJ1-JJ11	CONTRACT 95894		ILLINOIS	PROJEC ⁻	T J0J7(421)	



NOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

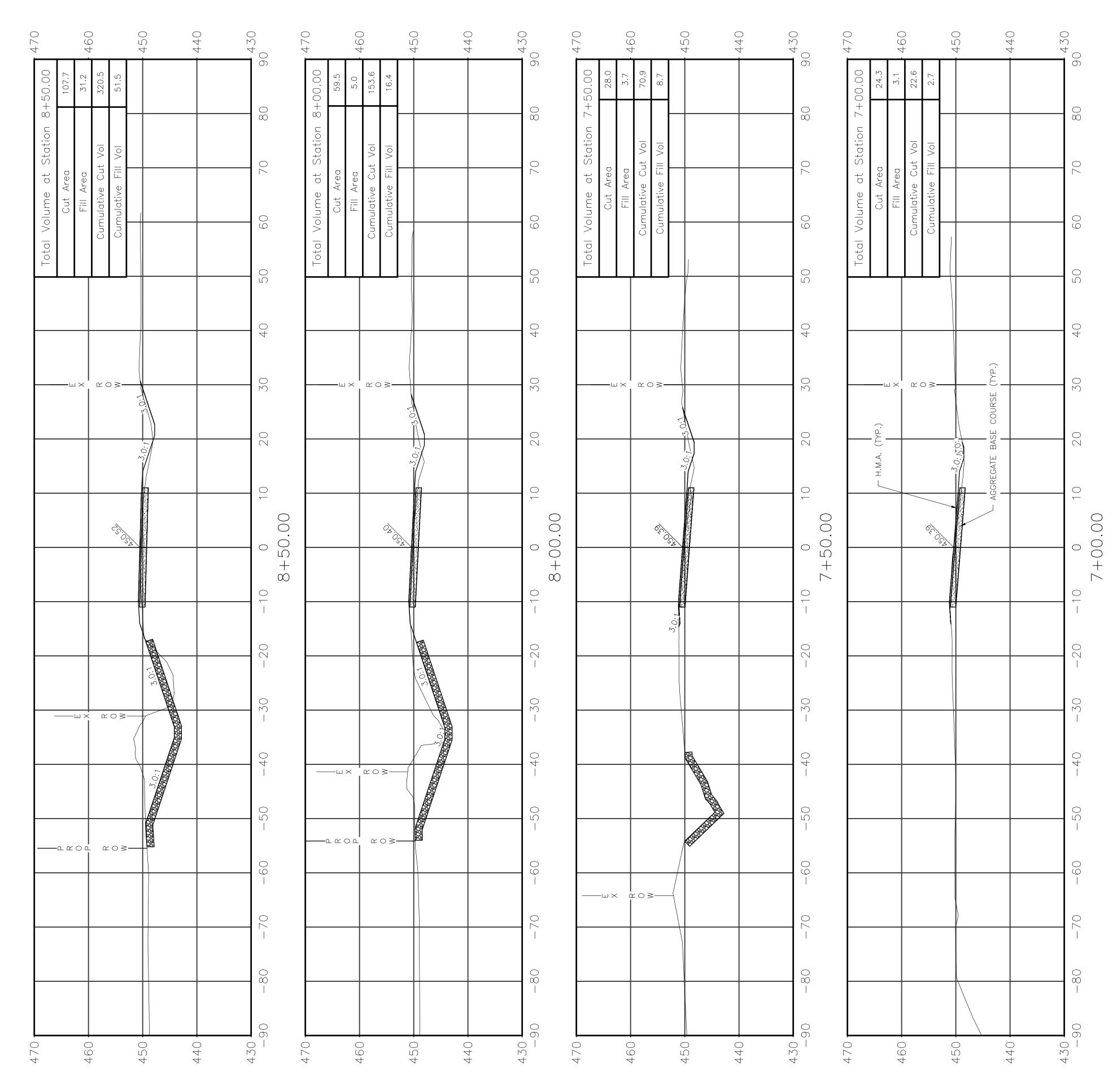
STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

Designation	F	Ft	Fw	W	W _t	W _w
HP 12x53	10"	5 '' 8	1 '' 2	6 ¹ ₂ "	1 '' 2	3 '' 8

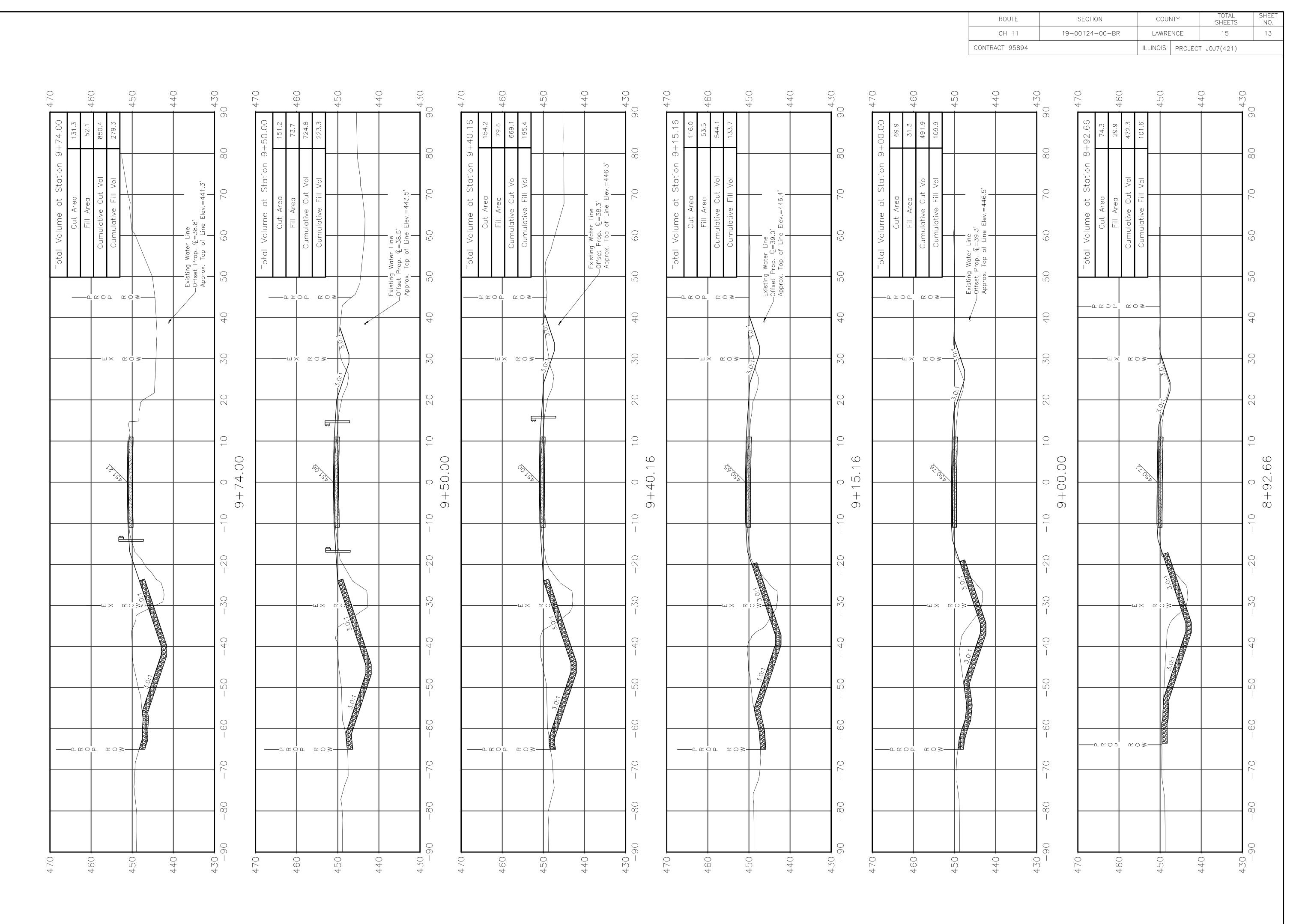
	ROUTE	SECTION	COU	NTY	TOTAL SHEETS	SHEET NO.
51 _ 3311	CH 11	19-00124-00-BR	LAWRE	NCE	15	10
51-3311	CONTRACT 95894		ILLINOIS	PROJEC	T J0J7(421)	

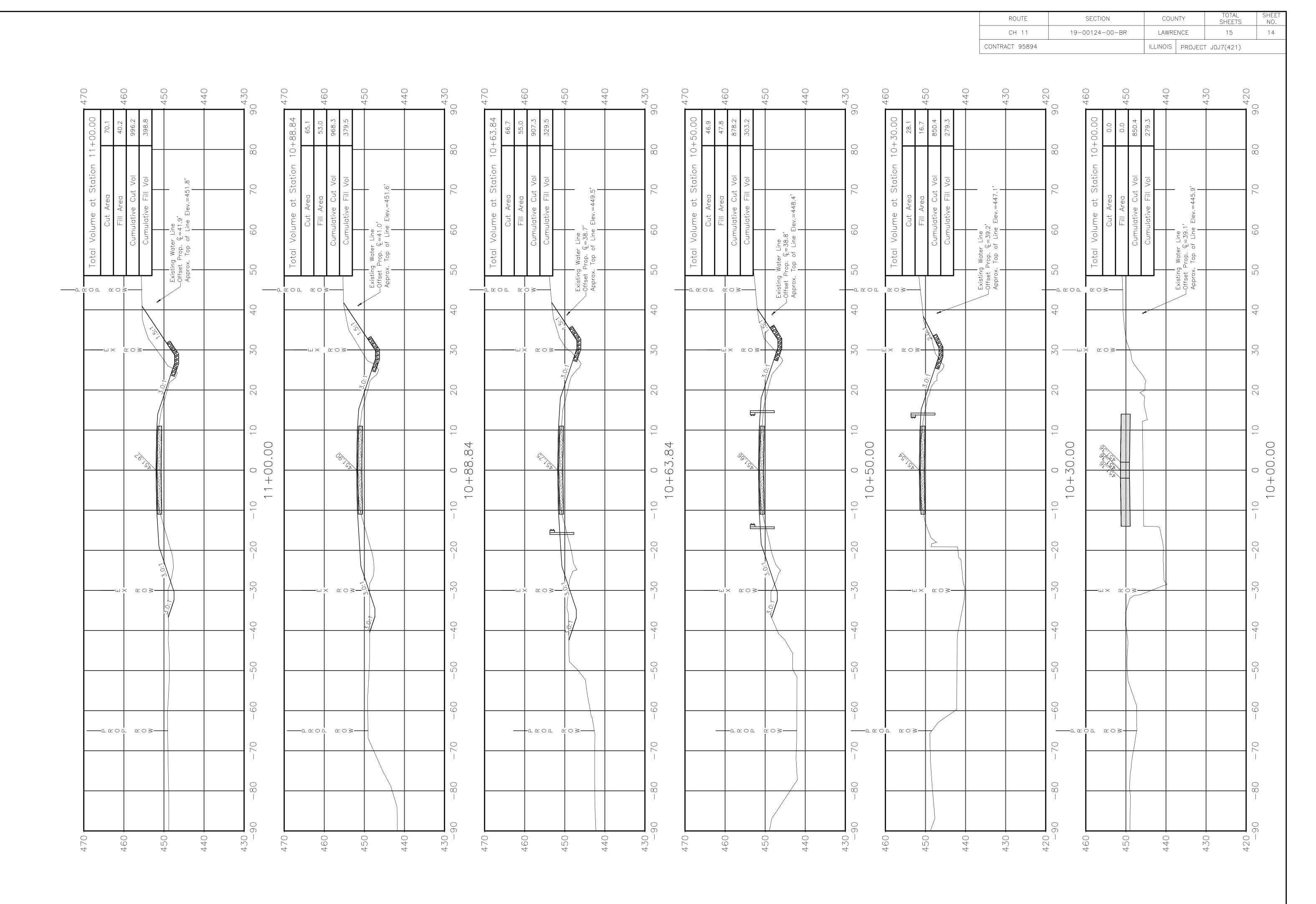
		BORING No. B-1	water level	ading
County: Lawrence, I	[L	Sheet No. 1 of 2	1st encounter	9'
	Weather: Sunny Ints Date Start: 12-3-19	Temperature: 40's Surface Elevation: 451.3**	water level @completion	Dry
	Date Finished: 12-3-19 Blow Recovery Qp	Driller: Tony Schocker	Backfill:	
	Count (%) (tsf)*	Soil Description 0.0'-0.3' asphaltic cement pavement	W% USC Class.	Elev.** 449.8
	2-0-1 20	0.0'-0.3' asphaltic cement pavement 0.3'-7.0' Silt, Clay, Etc. FILL	FILL	448.8
				447.8
	2-1-2 100		21.1 FILL	446.8 445.8
13	4-5-8 100		28.3 FILL	444.8
				443.8
16	3-5-11 100 1.1	7.0'-14.5' CLAY, trace to some sand, trace	33.9 CL	442.8 441.8
16		gravel, stiff, brown and gray		440.8
				439.8 438.8
'-15.0' 50+				437.8
D' 50+	15-31-50/2" 100 -		19.4 CL	436.8 435.8
				434.8
				432.8
'-20.0' 100+	100/5" 100 -	14.5'-32.9' HIGHLY WEATHERED SHALE, gray	5.2	431.8 430.8
				429.8
				428.8 427.8
23.5'-25.0' 100+	47-100/4" 100 -		7.9	426.8
				425.8 424.8
				423.8 422.8
				421.8
3.5'-30.0' 100+ (2-1/4" id)	71-100/5" 100 - comments * Qp test is an estima	te of the unconfined compressive strength performed	5.8	420.8
	by a compact calibrate	ed spring loaded cylinder d from provided bridge deck elevation and is not surve	24	
-47 oon (SS)				
LE		BORING No. B-1	water level	eading
RING CONSULTANTS	Weather: Sunny	Sheet No. 2 of 2 Temperature: 40's	1st encounter water level	9' reading
G CONSULTANTS on Engineering ngineering Consulta ±19-00124-00-BR	Weather: Sunny Ints Date Start: 12-3-19 Date Finished: 12-3-19	Sheet No. 2 of 2 Temperature: 40's Surface Elevation: 451.3**	1st encounter water level @completion Backfill:	9' eading Dry Goil cuttings
G CONSULTANTS on Engineering ngineering Consulta 19-00124-00-BR	Weather: Sunny Ints Date Start: 12-3-19	Sheet No. 2 of 2 Temperature: 40's Surface Elevation: 451.3**	1st encounter water level @completion	9' eading Dry Soil cuttings Elev.**
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<i>TNG CONSULTANTS</i> ston Engineering Engineering Consulta . #19-00124-00-BR	Weather: Sunny Ints Date Start: 12-3-19 Date Finished: 12-3-19	Sheet No. 2 of 2 Temperature: 40's Surface Elevation: 451.3** Driller: Tony Schocker Soil Description 14.5'-32.9' HIGHLY WEATHERED SHALE,	1st encounter water level @completion Backfill:	9' eading Dry Soil cuttings Elev.** 419.8
ING CONSULTANTS eston Engineering e Engineering Consulta c. #19-00124-00-BR	Weather: Sunny Ints Date Start: 12-3-19 Date Finished: 12-3-19	Sheet No. 2 of 2 Temperature: 40's Surface Elevation: 451.3** Driller: Tony Schocker Soil Description 14.5'-32.9' HIGHLY WEATHERED SHALE,	1st encounter water level @completion Backfill:	9' eading Dry Soil cuttings Elev.** 419.8 418.8
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NG CONSULTANTS ston Engineering Engineering Consulta #19-00124-00-BR	Weather: Sunny Ints Date Start: 12-3-19 Date Finished: 12-3-19	Sheet No. 2 of 2 Temperature: 40's Surface Elevation: 451.3** Driller: Tony Schocker Soil Description 14.5'-32.9' HIGHLY WEATHERED SHALE, gray	1st encounter water level @completion Backfill:	9' eading Dry Soil cuttings Elev.** 419.8 418.8
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