

MODEL Default
FILE NAME: I:\0713 Pulaski\Co_CH\2025 PSE Updates\CAD Sheets\0713000 03-04-500 7073.dgn

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING: 80% State, 20% Local
50800530	MECHANICAL SPLICERS	EACH	348	348
51201900	FURNISHING STEEL PILES HP14X89	FOOT	564	564
51202305	DRIVING PILES	FOOT	564	564
51203900	TEST PILE STEEL HP14X89	EACH	2	2
51204650	PILE SHOES	EACH	14	14
51500100	NAME PLATES	EACH	1	1
51602000	PERMANENT CASING	FOOT	167	167
51603000	DRILLED SHAFT IN SOIL	CU YD	122.0	122.0
51604000	DRILLED SHAFT IN ROCK	CU YD	49.4	49.4
52000110	PREFORMED JOINT STRIP SEAL	FOOT	58	58
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	69	69
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	110	110
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	79	79
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	135	135
60617510	PAVED DITCH, TYPE B-30	FOOT	602	602
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100

* SPECIALTY ITEM

* SPECIALTY ITEM

0042

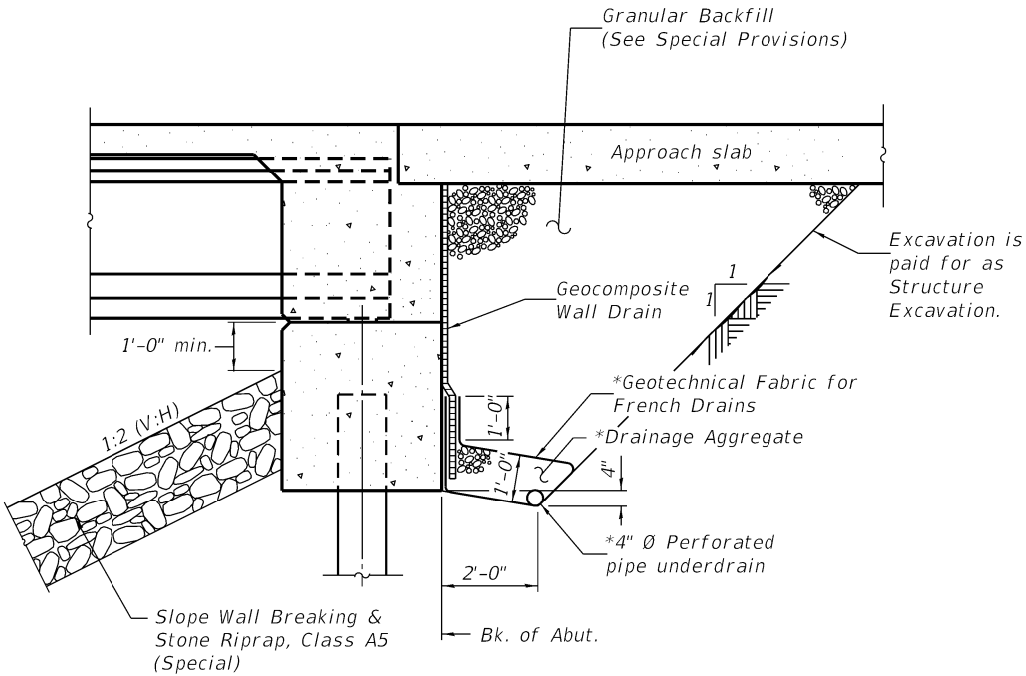
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING: 80% State, 20% Local
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
* 63200310	GUARDRAIL REMOVAL	FOOT	291	291
67100100	MOBILIZATION	L SUM	1	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	12	12
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	32	32
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3,600	3,600
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	6	6
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	10	10
Z0004552	APPROACH SLAB REMOVAL	SQ YD	84	84
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1
X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	251	251
X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	6	6
X2010510	CLEARING AND GRUBBING	L SUM	1	1
X2810110	STONE RIPRAP, CLASS A5 (SPECIAL)	SQ YD	3,393	3,393
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	200	200
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	1,690	1,690
X5110306	SLOPE WALL BREAKING	SQ YD	3,393	3,393
X5230174	DRAINAGE SCUPPERS, DS-11	EACH	4	4
# Z0076600	TRAINEES	HOUR	1,500	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM		1
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,500	



REVISED 1/5/2026

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. Slipforming of the parapets is not allowed.



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. Z's)

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

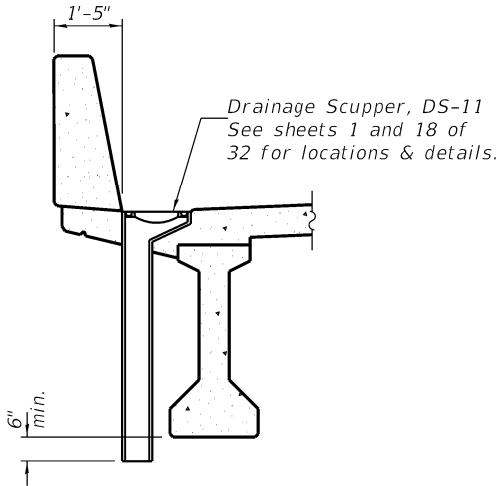
DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	-----	302.61	306.0±	-----	5
Q200	-----	302.42	306.0±	-----	
Design	357.3	302.61	306.0±	357.3	
Check	357.3	302.42	306.0±	357.3	

WATERWAY INFORMATION

Drainage Area = 373 Sq. Mi. Existing Overtopping EI = 363.52 at Sta 31+69 Proposed Overtopping EI = 366.01 at Sta 34+85									
Flood Event	Freq. Yr.	Q C.F.S.	Opening Sq Ft		Nat. H.W.E.	Head - Ft		Headwater EI	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	14,300	1912	1847	325.4	0	0.1	325.4	325.5
Design	20	16,370	2253	2180	328.1	0.1	0.1	328.2	328.2
Base	100	22,000	3070	2980	333.6	0.1	0.1	333.7	333.7
Scour Design Check	200	23,430	3200	3106	334.4	0.1	0.1	334.5	334.5
Overtopping	N/A								
Max. Calc.	500	27,700	3412	3312	335.5	0.1	0.1	335.6	335.6

Note:
Elevations include an assumed backwater from the Ohio River.



DRAINAGE SCUPPER SECTION

POST CREEK CUT-OFF
BUILT 202 BY
PULASKI COUNTY
SEC. 12-00071-00-BR
PROJ. NO. 1 FDA (058)
FAS RTE 937 STA 33+06
S.N. 077-3145 LOADING HL93

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	---	---	1
Structure Excavation	Cu Yd	---	162	162
Floor Drains	Each	10	---	10
Concrete Structures	Cu Yd	---	349.9	349.9
Concrete Superstructure	Cu Yd	302.8	---	302.8
Bridge Deck Grooving	Sq Yd	960	---	960
** Protective Coat	Sq Yd	1,314	---	1,314
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54 In.	Foot	1,077.0	---	1,077.0
Reinforcement Bars	Pound	---	50,530	50,530
Reinforcement Bars, Epoxy Coated	Pound	105,720	81,360	187,080
Mechanical Splicers	Each	---	348	348
Furnishing Steel Piles HP14x89	Foot	---	564	564
Driving Piles	Foot	---	564	564
Test Pile Steel HP14x89	Each	---	2	2
Pile Shoes	Each	---	14	14
Name Plates	Each	---	---	1
Permanent Casing	Foot	---	167	167
Drilled Shaft in Soil	Cu Yd	---	122.0	122.0
Drilled Shaft in Rock	Cu Yd	---	49.4	49.4
Preformed Joint Strip Seal	Foot	58.0	---	58.0
Granular Backfill for Structures	Cu Yd	---	110	110
Geocomposite Wall Drain	Sq Yd	---	79	79
Pipe Underdrains for Structures 4"	Foot	---	135	135
Crosshole Sonic Logging Access Ducts	Foot	---	251	251
Crosshole Sonic Logging Testing	Each	---	6	6
Stone Riprap, Class A5 (Special)	Sq Yd	---	3,393	3,393
Concrete Wearing Surface, 5"	Sq Yd	200	---	200
Precast Bridge Approach Slab	Sq Ft	1,690	---	1,690
Slope Wall Breaking	Sq Yd	---	3,393	3,393
Drainage Scuppers, DS-11	Each	4	---	4

** Quantity includes top of concrete surface of bridge deck and approach slabs end to end and the top and inside vertical faces of the parapets and curbs.

MODEL Default
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HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
DESIGNED -
DRAWN -
PLOT SCALE = 2.0000 " / in.
PLOT DATE = 1/5/2026

DESIGNED -
DRAWN -
CHECKED -
DATE -

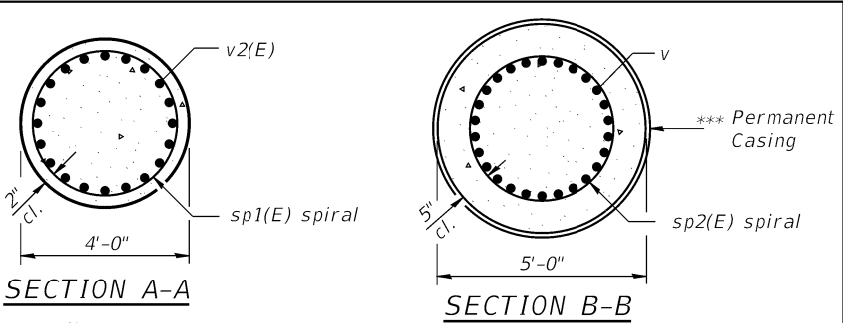
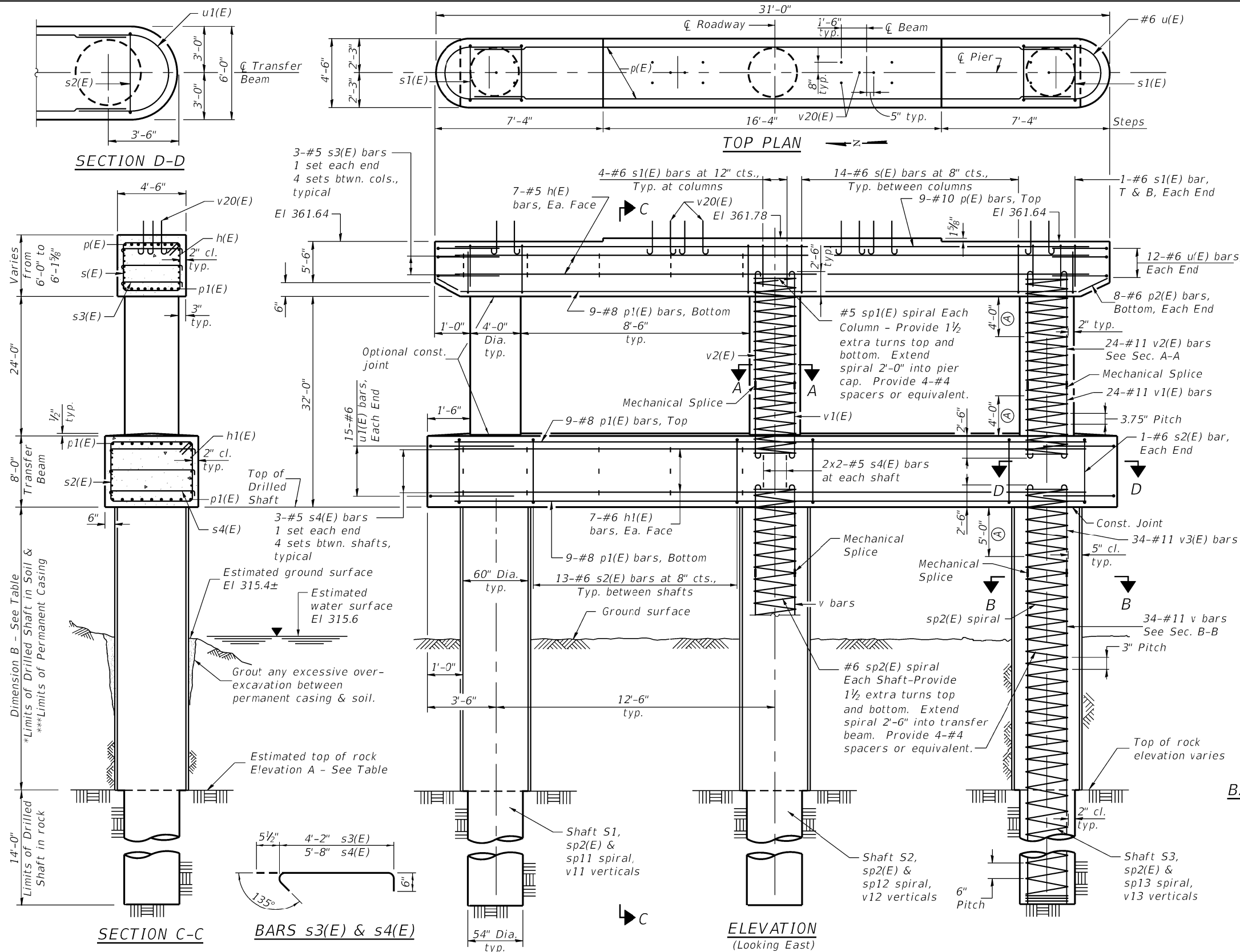
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

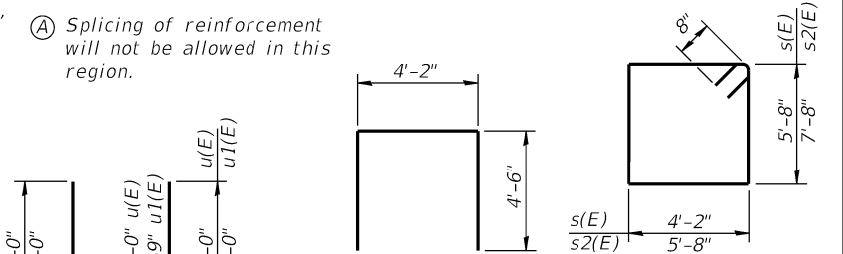
GENERAL DATA
STRUCTURE NO. 077-3145

SCALE: SHEET 2 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	17
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



Note:
When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.

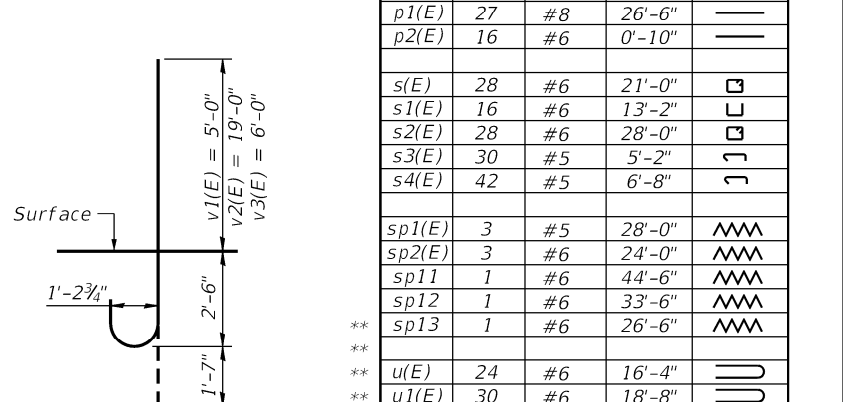


BAR S1(E) **BARS s(E) & s2(E)**

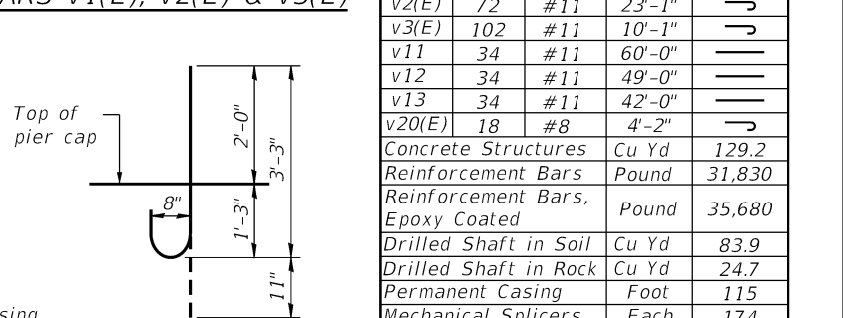
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	27'-0"	—
h1(E)	14	#6	26'-6"	—
p(E)	9	#10	27'-0"	—
p1(E)	27	#8	26'-6"	—
p2(E)	16	#6	0'-10"	—
s(E)	28	#6	21'-0"	□
s1(E)	16	#6	13'-2"	□
s2(E)	28	#6	28'-0"	□
s3(E)	30	#5	5'-2"	□
s4(E)	42	#5	6'-8"	□
sp1(E)	3	#5	28'-0"	⋈
sp2(E)	3	#6	24'-0"	⋈
sp11	1	#6	44'-6"	⋈
sp12	1	#6	33'-6"	⋈
sp13	1	#6	26'-6"	⋈
u(E)	24	#6	16'-4"	U
u1(E)	30	#6	18'-8"	U
v1(E)	72	#11	9'-1"	J
v2(E)	72	#11	23'-1"	J
v3(E)	102	#11	10'-1"	J
v11	34	#11	60'-0"	J
v12	34	#11	49'-0"	J
v13	34	#11	42'-0"	J
v20(E)	18	#8	4'-2"	J
Concrete Structures	Cu Yd	129.2		
Reinforcement Bars	Pound	31,830		
Reinforcement Bars, Epoxy Coated	Pound	35,680		
Drilled Shaft in Soil	Cu Yd	83.9		
Drilled Shaft in Rock	Cu Yd	24.7		
Permanent Casing	Foot	115		
Mechanical Splicers	Each	174		
Crosshole Sonic Logging Access Ducts	Foot	174		
Crosshole Sonic Logging Testing	Each	3		

BARS u(E) & u1(E)



BARS v1(E), v2(E) & v3(E)



BAR v20(E)

SHAFT TABLE

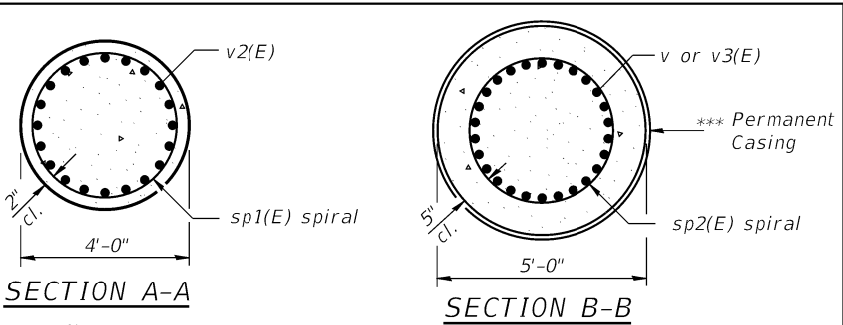
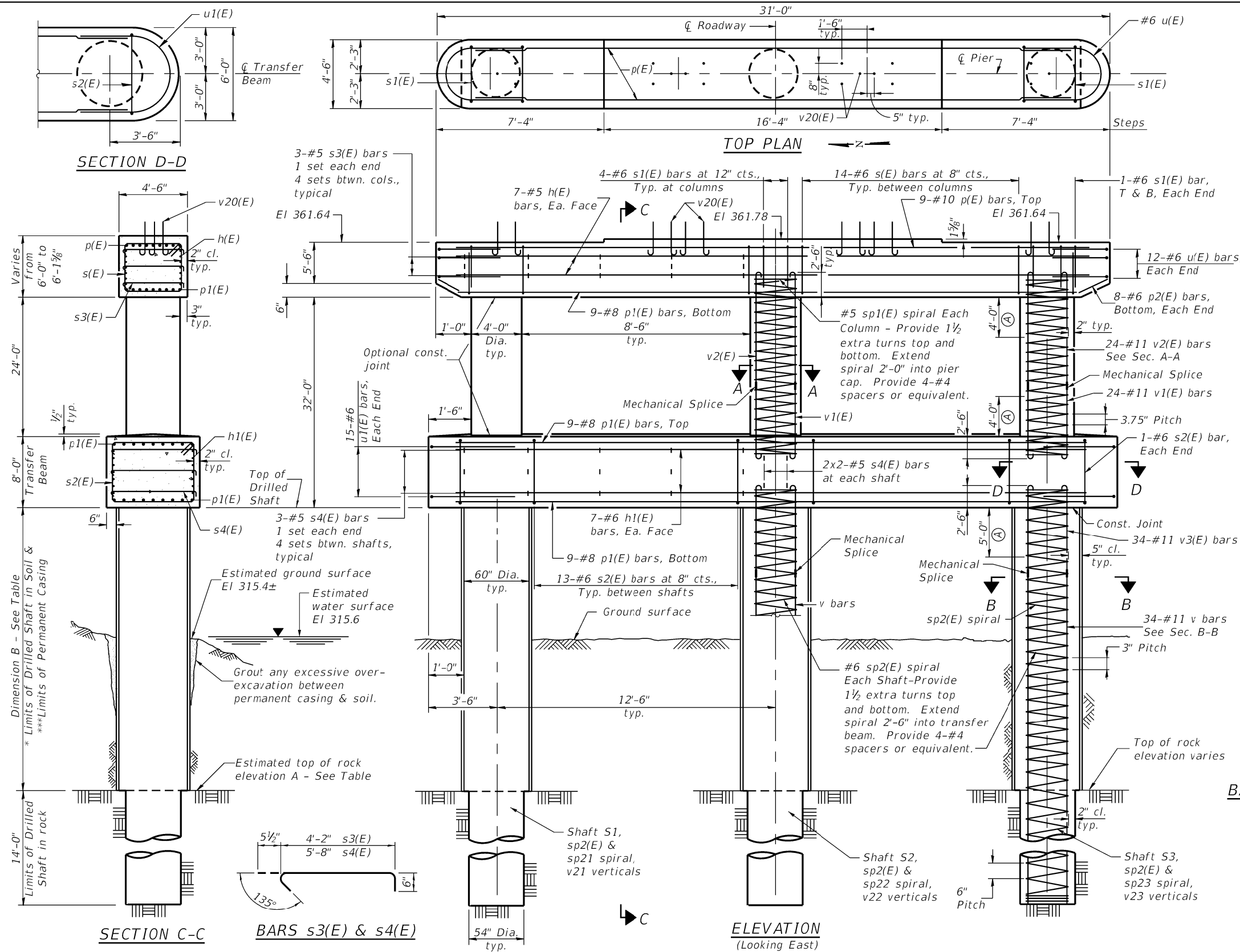
Table	Description	S1	S2	S3
A	Estimated Top of Rock Elevation	275.5±	286.5±	293.5±
B	Limits of Drilled Shaft in Soil & Permanent Casing	48'-2"	37'-2"	30'-2"

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

*** Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.

If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

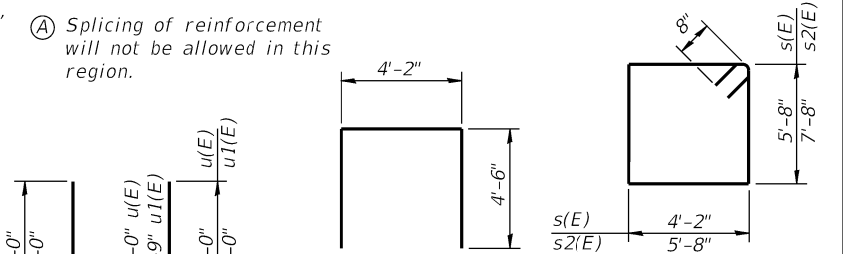
P-DSTB 2-17-2017 (Modified)



SECTION A-A

SECTION B-B

When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.



BAR s1(E)

BARS s(E) & s2(E)

BARS u(E) & u1(E)

BAR v20(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#5	27'-0"	—
h1(E)	24	#5	26'-6"	—
p(E)	9	#10	27'-0"	—
p1(E)	27	#8	26'-6"	—
p2(E)	16	#6	0'-10"	—
s(E)	28	#5	21'-0"	□
s1(E)	16	#5	13'-2"	□
s2(E)	28	#5	28'-0"	□
s3(E)	30	#5	5'-2"	□
s4(E)	42	#5	6'-8"	□
sp1(E)	3	#5	28'-0"	⋈
sp2(E)	3	#6	24'-0"	⋈
sp21	1	#6	17'-6"	⋈
sp22	1	#6	14'-6"	⋈
sp23	1	#6	13'-6"	⋈
u(E)	24	#6	16'-4"	U
u1(E)	30	#6	18'-8"	U
v1(E)	72	#11	9'-1"	J
v2(E)	72	#11	23'-1"	J
v3(E)	102	#11	10'-1"	J
v21	34	#11	33'-0"	J
v22	34	#11	30'-0"	J
v23	34	#11	29'-0"	J
v20(E)	18	#8	4'-2"	J
Concrete Structures	Cu Yd	129.2		
Reinforcement Bars	Pound	18,700		
Reinforcement Bars, Epoxy Coated	Pound	35,680		
Drilled Shaft in Soil	Cu. Yd.	38.1		
Drilled Shaft in Rock	Cu. Yd.	24.7		
Permanent Casing	Foot	52		
Mechanical Splicers	Each	174		
Crosshole Sonic Logging Access Ducts	Foot	94		
Crosshole Sonic Logging Testing	Each	3		

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.

** Length is height of spiral.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	41
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

SHAFT TABLE

Table	Description	S1	S2	S3
A	Estimated Top of Rock Elevation	308.5±	305.5±	304.5±
B	Limits of Drilled Shaft in Soil & Permanent Casing	15'-2"	18'-2"	19'-2"

P-DSTB 2-17-2017 (Modified)

HMG ENGINEERS IL PROF. DESIGN FIRM NO. 184.000899	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 888.HMG.ENGR	USER NAME = bchristmann DESIGNED - DRAWN - CHECKED - DATE -	REVISD 1 1/5/2026 KBC REVISD - REVISD - REVISD -
PLOT SCALE = 2.0000" / in.		PLOT DATE = 1/5/2026	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2
STRUCTURE NO. 077-3145**

SCALE: SHEET 26 OF 32 SHEETS STA. TO STA.

*** Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications.
Pay limits for the Permanent Casing shall be based on the minimum length shown.

If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.