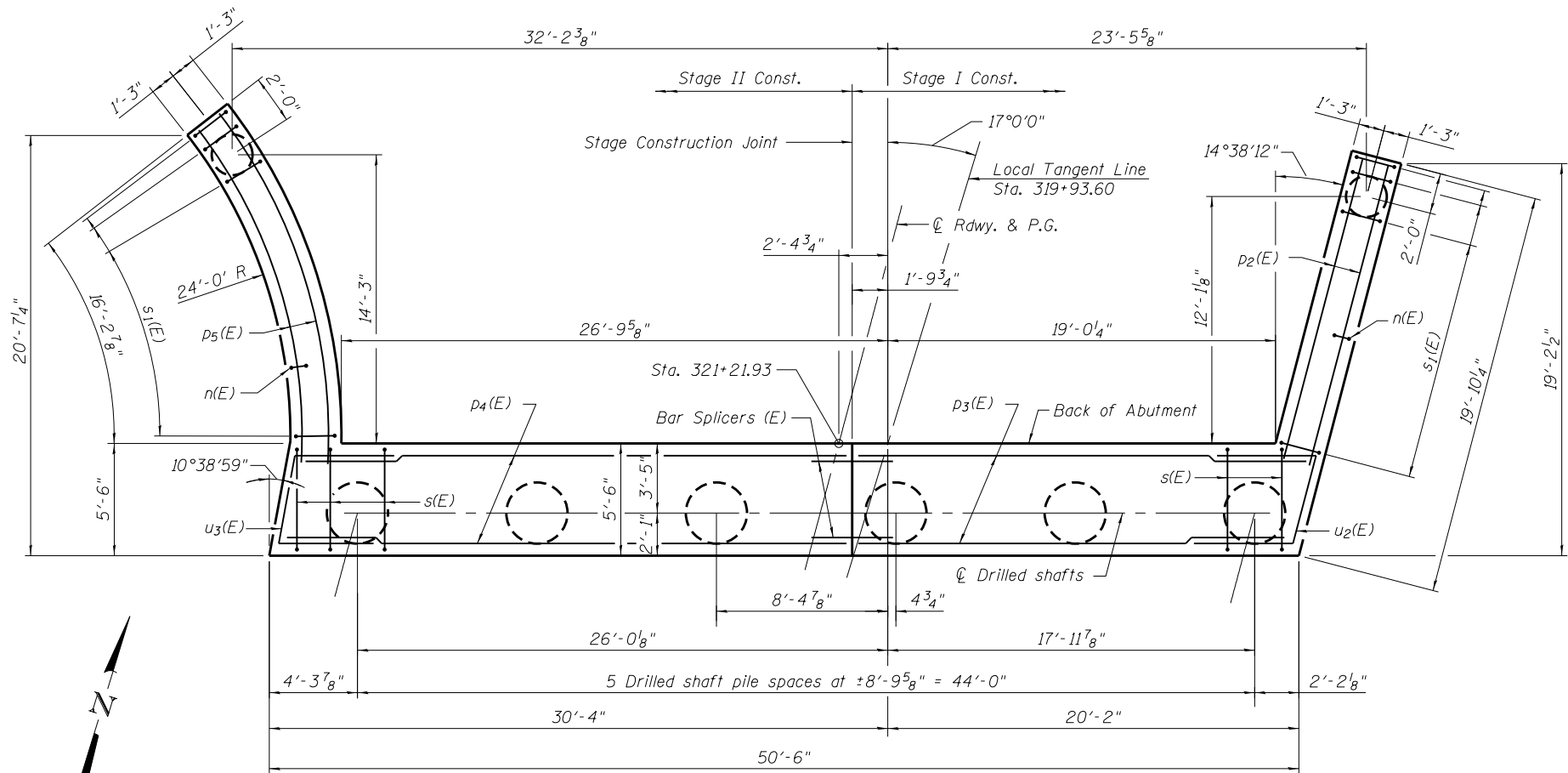
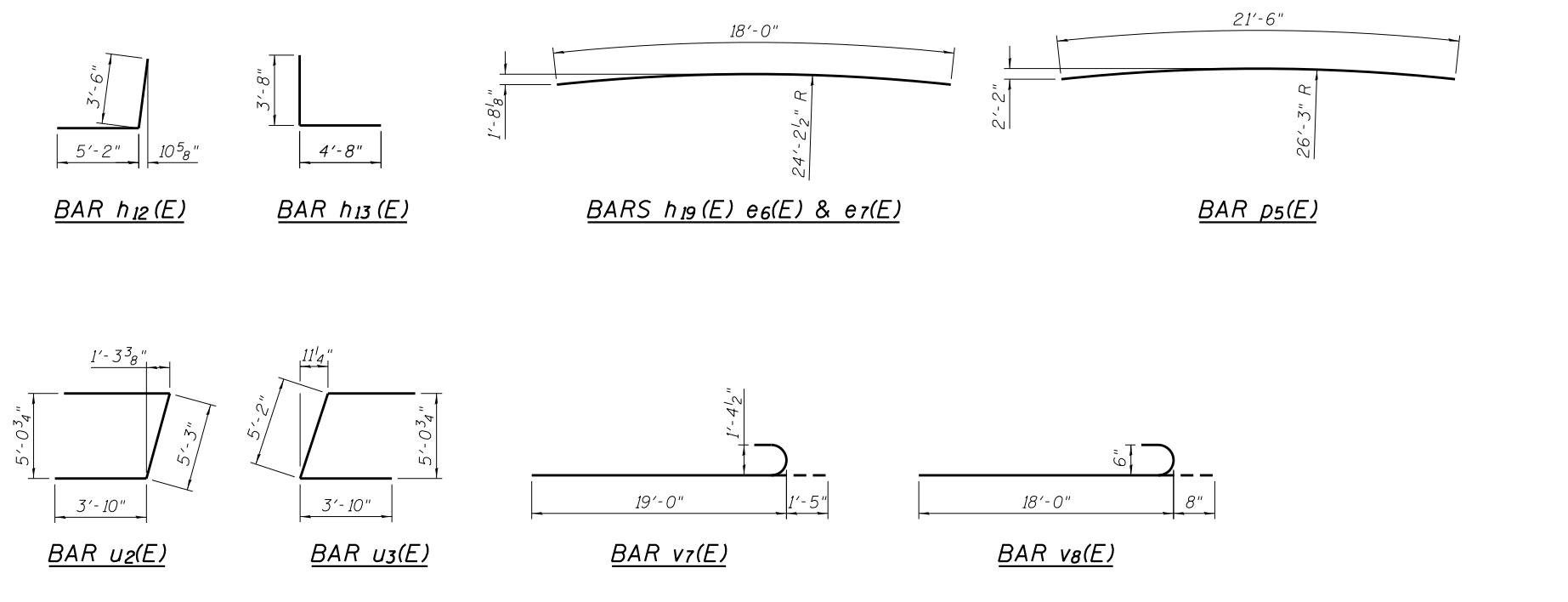


**NORTH ABUTMENT
BILL OF MATERIAL**

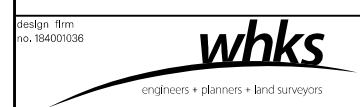
Bar	No.	Size	Length	Shape
d ₃ (E)	56	#5	8'-8"	
d ₅ (E)	41	#5	5'-7 1/2"	
e ₁₂ (E)	2	#7	16'-0"	
e ₁₃ (E)	2	#5	16'-0"	
e ₁₄ (E)	2	#7	18'-0"	
e ₁₅ (E)	2	#5	18'-0"	
h ₉ (E)	10	#5	4'-9"	
h ₁₀ (E)	12	#5	21'-3"	
h ₁₁ (E)	12	#5	25'-10"	
h ₁₂ (E)	18	#5	8'-8"	
h ₁₃ (E)	18	#5	8'-4"	
h ₁₄ (E)	7	#6	21'-3"	
h ₁₅ (E)	7	#6	25'-10"	
h ₁₆ (E)	5	#5	6'-6"	
h ₁₇ (E)	5	#5	10'-10"	
h ₁₈ (E)	16	#4	16'-0"	
h ₁₉ (E)	16	#4	18'-0"	
n(E)	38	#6	13'-3"	
p ₂ (E)	10	#9	18'-7"	
p ₃ (E)	16	#7	23'-0"	
p ₄ (E)	16	#7	28'-2"	
p ₅ (E)	10	#9	21'-6"	
s(E)	53	#5	17'-7"	
s ₁ (E)	38	#4	11'-5"	
s ₂ (E)	19	#5	9'-0"	
s ₃ (E)	12	#5	5'-1"	
sp ₂	6	#6	16'-7"	
sp ₃	2	#6	16'-7"	
u ₂ (E)	5	#6	12'-11"	
u ₃ (E)	5	#6	12'-10"	
v(E)	49	#5	3'-9"	
v ₁ (E)	49	#6	3'-6"	
v ₂ (E)	98	#6	8'-4"	
v ₄ (E)	76	#6	7'-1"	
v ₇ (E)	48	#10	20'-5"	
v ₈ (E)	14	#6	18'-8"	
Structure Excavation	Cu. Yd.		369	
Concrete Structures	Cu. Yd.		77.9	
Reinforcement Bars	Pound		2,550	
Reinforcement Bars, Epoxy Coated	Pound		14,740	
Drilled Shaft in Soil	Cu. Yd.		11.6	
Drilled Shaft in Rock	Cu. Yd.		12.4	
Granular Backfill for Structures	Cu. Yd.		105	
Concrete Sealer	Sq. Ft.		703	
Geocomposite Wall Drain	Sq. Yd.		46	
Concrete Bridge Railing	Foot		36	

For Drilled Shaft details, see sheet 37 of 60.
 For d₃(E) bar details, see sheet 20 of 60.
 For d₅(E), n(E), s(E), s₁(E), s₂(E), s₃(E), v(E), and v₁(E) bars, see sheet 33 of 60.
 * Bars are for reference only. Cost included with Concrete Bridge Rail.
 ** Length is height of spiral.

MIN. BAR LAP
 #5 3'-3"
 #6 3'-10"



PLAN - PILE CAP



USER NAME = dheber1ing	DESIGNED - BRD	REVISED
FILE NAME = 0430028-64E08.dgn	CHECKED - SBC	REVISED
PLOT SCALE = 0:2.00000 '1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/2/2013	CHECKED - SBC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT DETAILS
STRUCTURE NO. 043-0080**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JoDAVISS	159	86
CONTRACT NO. 64E08				

SHEET NO. 36 OF 60 SHEETS

ILLINOIS FED. AID PROJECT