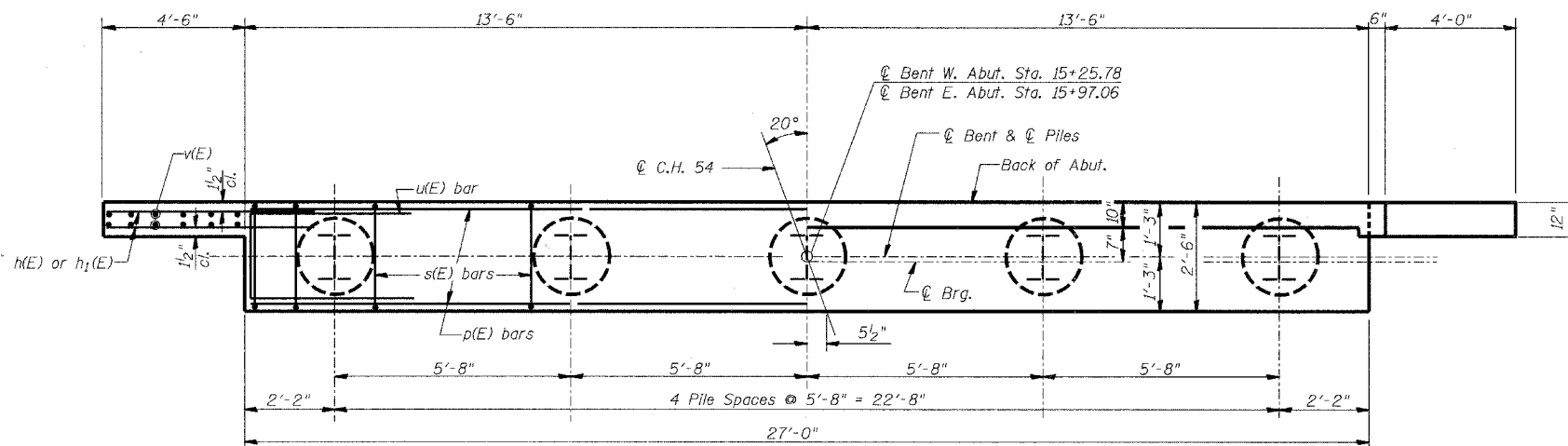


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 54	05-00197-00-BR	MACON	11	11
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

CONTRACT NO. 91344



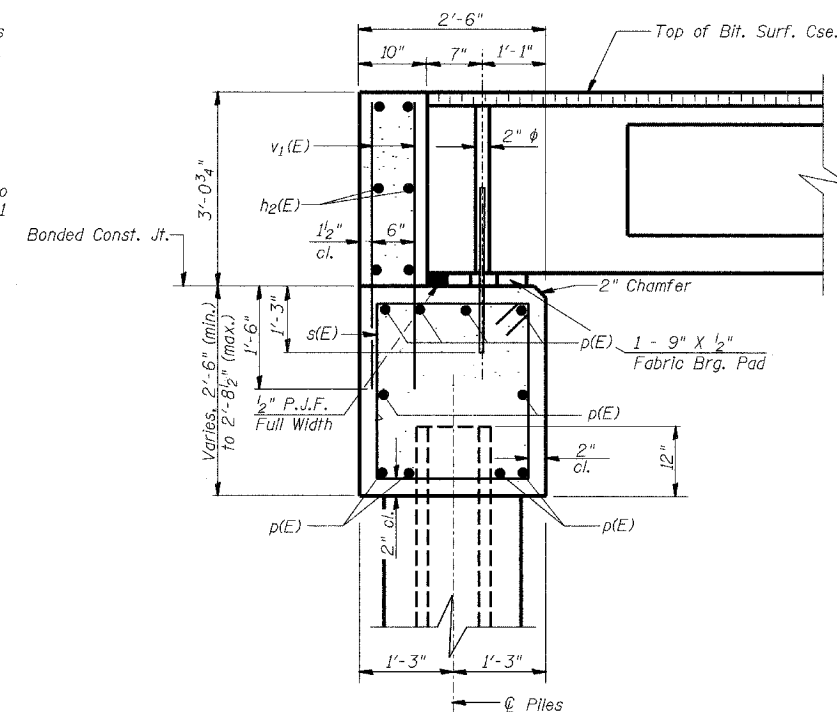
PLAN

NOTES

1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. 1" dia. x 2'-6" dowel rods in 1 1/2" dia. holes drilled in cap (2 each beam). Dowel rods to be grouted after beams are in place and allowed to cure (min. 24 hrs.) prior to grouting the shear keys. The grout shall be an approved non-shrink grout.
3. Reinforcement bars designated (E) shall be Epoxy Coated.
4. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60
5. Space reinforcement in cap to miss dowel rods.

DESIGN STRESSES

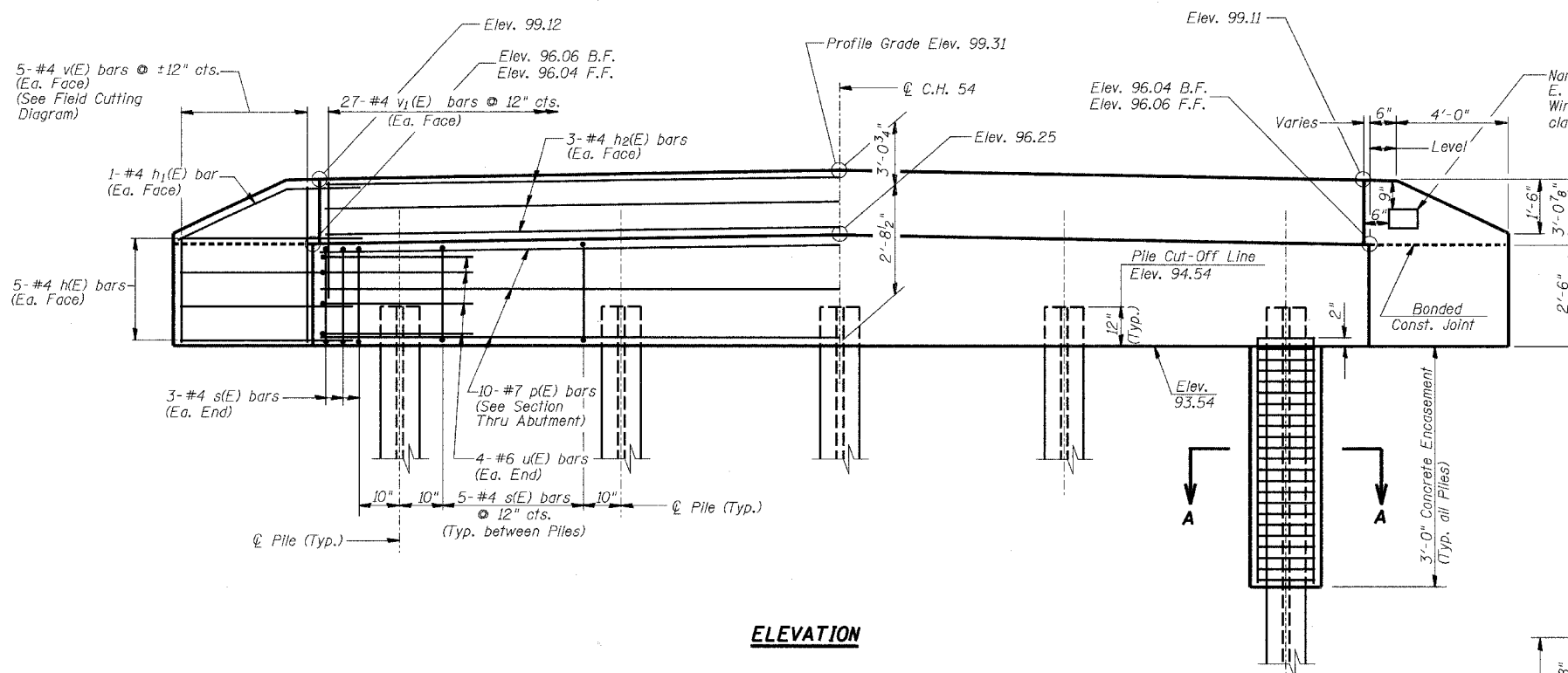
$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi}$



SECTION THRU ABUT.
(At Rt. Angles)

PILE DATA

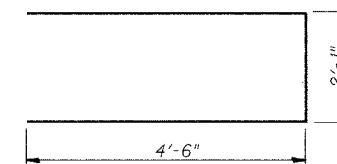
Type: Steel HP10X42
Capacity: 43 Tons (Overdrive to 65 Tons)
Estimated Length: W. Abut. = 36'-0"
E. Abut. = 35'-0"
No. Required: W. Abut. = 4 plus one permanent test pile
E. Abut. = 5



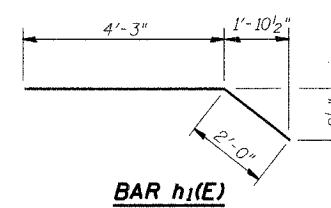
ELEVATION

**BILL OF MATERIAL
WEST ABUTMENT & EAST ABUTMENT**

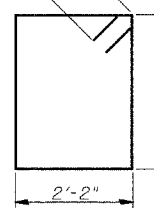
Bar	No.	Size	Length	Shape
h(E)	40	#4	6'-0"	—
h1(E)	8	#4	6'-3"	—
h2(E)	12	#4	26'-8"	—
p(E)	20	#7	26'-8"	—
s(E)	52	#4	9'-5"	□
u(E)	16	#6	11'-1"	—
v(E)	20	#4	8'-10"	—
v1(E)	108	#4	4'-5"	—
Concrete Structures			Cu. Yd.	21.3
Reinforcement Bars, Epoxy Coated			Pound	2540
Steel Piles HP10X42			Foot	319
Test Pile Steel HP10X42			Each	1
Concrete Encasement			Cu. Yd.	3.4



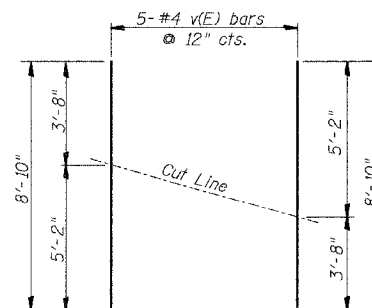
BAR u(E)



BAR h1(E)

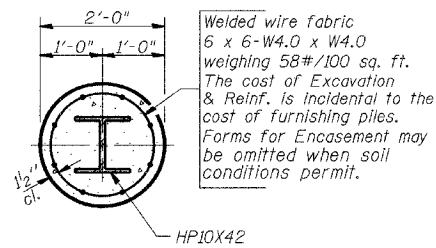


BAR s(E)



FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and use remainder of bars in other face.



SECTION A-A

WEST ABUTMENT & EAST ABUTMENT

Date	Designed MJP	C.H. 54 OVER DRAINAGE DITCH SECTION 05-00197-00-BR MACON COUNTY STA. 15+61.42 PROP. STR. NO. 058-3379	Sheet No.
Revisions	Drawn BKN		4
	Checked KWB		
	Approved KWB		
Prepared by: URS	3040 North University Avenue Decatur, IL 62526		of 4 URS Job No. 36431470