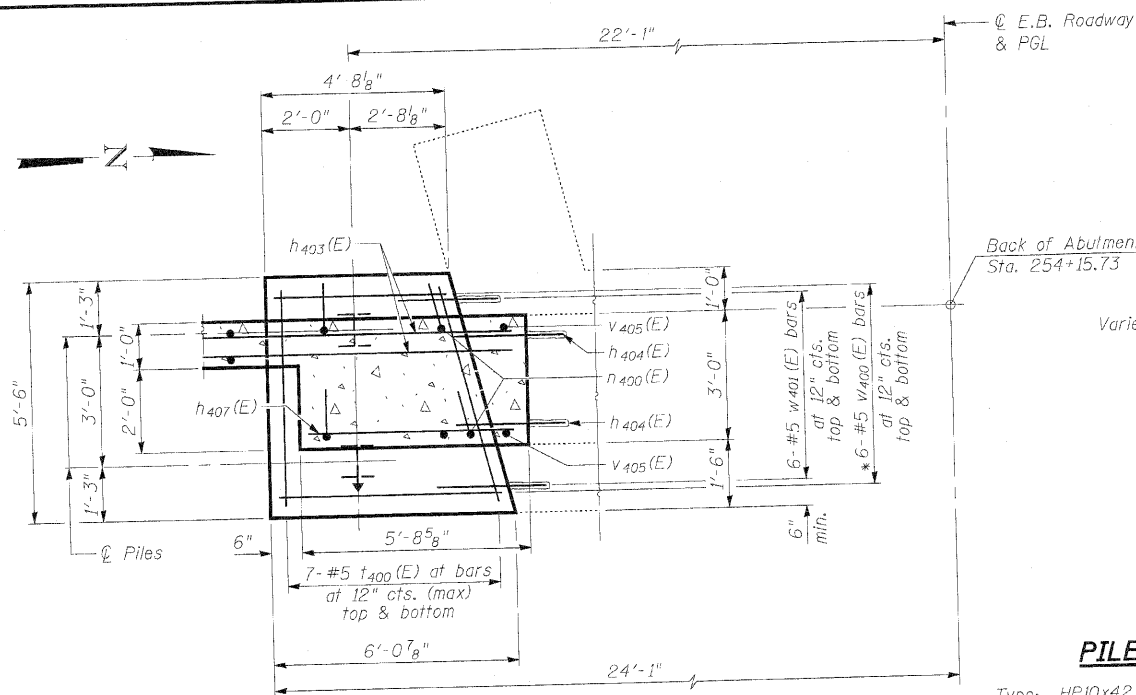


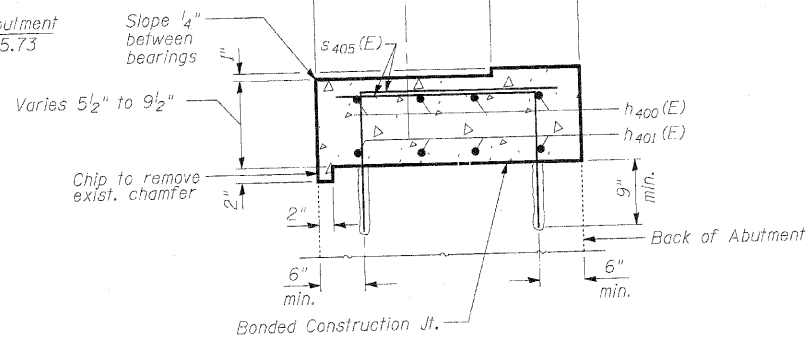
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



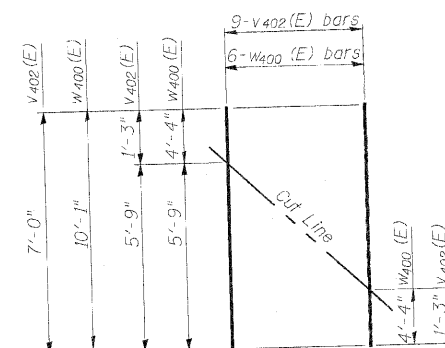
PARTIAL FOOTING PLAN

PILE DATA

Type: HP10x42 with pile shoes
Nominal Required Bearing: 335 kips
Allowable Resistance Available: 112 kips
Est. Length: 24.1 feet
No. Production Piles: 2
No Test Piles: 0



SECTION A-A



FIELD CUTTING DIAGRAM

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

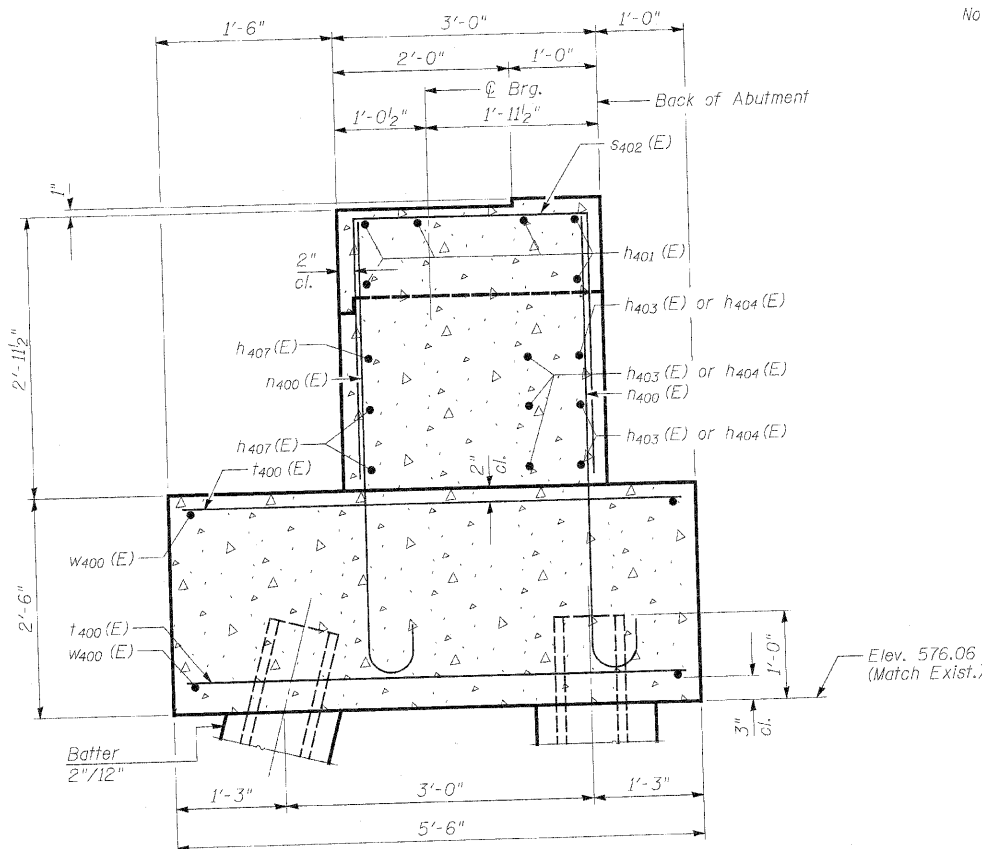
BAR S402(E)

BARS S404(E) & S405(E)

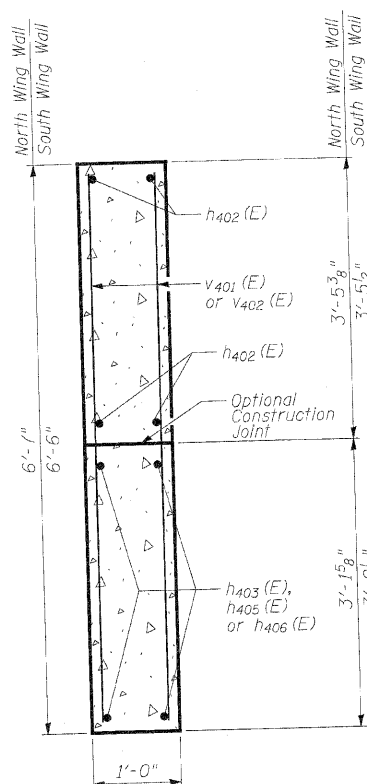
BAR n400(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h400 (E)	4	#5	6'-10"	
h401 (E)	4	#5	42'-10"	
h402 (E)	16	#5	5'-6"	
h403 (E)	10	#6	15'-6"	
h404 (E)	12	#6	4'-9"	
h405 (E)	6	#6	11'-5"	
h406 (E)	4	#6	13'-0"	
h407 (E)	3	#6	5'-5"	
n400 (E)	11	#5	5'-8"	
S401 (E)	18	#5	4'-0"	
S402 (E)	7	#5	8'-0"	
S404 (E)	58	#5	3'-5"	
S405 (E)	16	#5	3'-9"	
t400 (E)	14	#5	5'-3"	
W401 (E)	8	#5	6'-3"	
W402 (E)	18	#5	7'-0"	
W403 (E)	2	#5	3'-1"	
W404 (E)	2	#5	3'-9"	
W405 (E)	2	#5	3'-7"	
W400 (E)	12	#5	10'-1"	
W401 (E)	12	#5	4'-2"	
Porous Granular Embankment, Special				Cu. Yd. 122
Structure Excavation				Cu. Yd. 104
Concrete Structures				Cu. Yd. 10.8
Concrete Encasement				Cu. Yd. 0.7
Reinforcement Bars, Epoxy Coated				Pound 1750
Furnishing Steel Piles, HP10x42				Foot 48.2
Driving Piles				Foot 48.2
Pile Shoes				Each 2
Geocomposite Wall Drain				Sq. Yd. 43
Pipe Underdrains for Structures 4"				Foot 63



SECTION B-B



SECTION C-C

Notes:
→ Denotes direction of batter piles.
* See Field Cutting Diagram

DESIGNED	SST
CHECKED	-
DRAWN	ASJ
CHECKED	SPK

E.B. ROADWAY WEST ABUTMENT DETAILS STRUCTURE NO. 081-0022 (E.B.) STRUCTURE NO. 081-0023 (W.B.)



**INFRASTRUCTURE
ENGINEERING** INCORPORATED
33 West Monroe | Suite 1540 | Chicago, IL 60603
P 312.425.9560 | F 312.425.9564 | www.infrastructure-eng.com

SHEET NO. 32	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
54 SHEETS	280	81-1(HB-2)R	ROCK ISLAND	503	314
CONTRACT NO. 64815					
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					