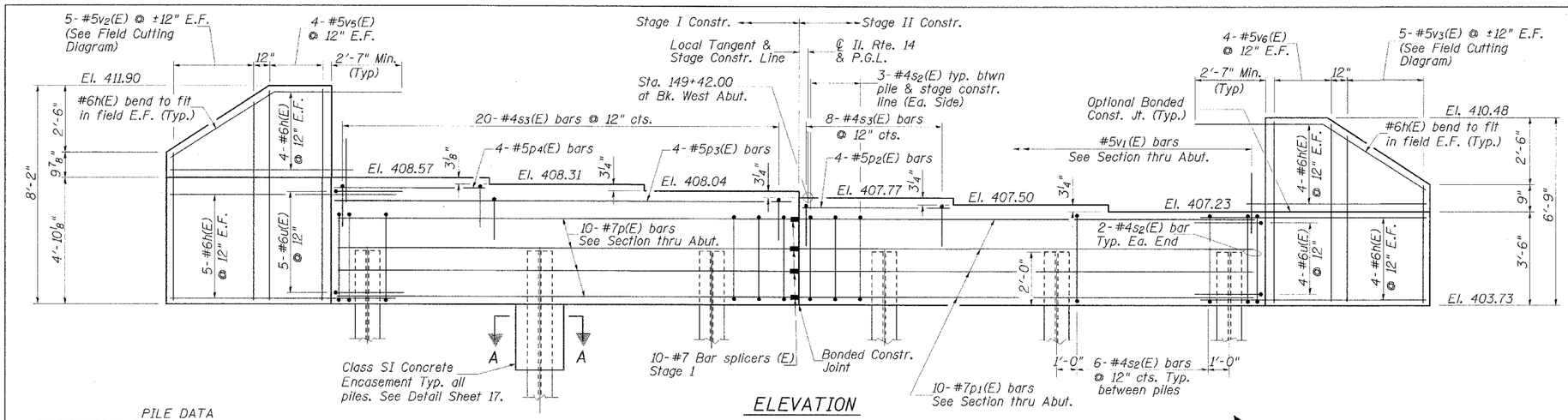
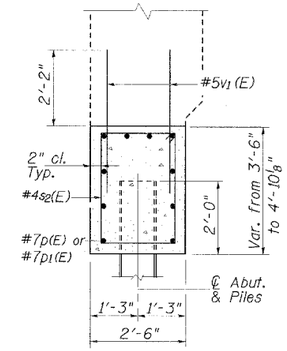
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	6B-1	FRANKLIN	44	39
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

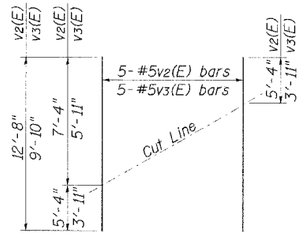
Contract #98645 SHEET 13 OF 18



ELEVATION



SECTION THRU ABUTMENT

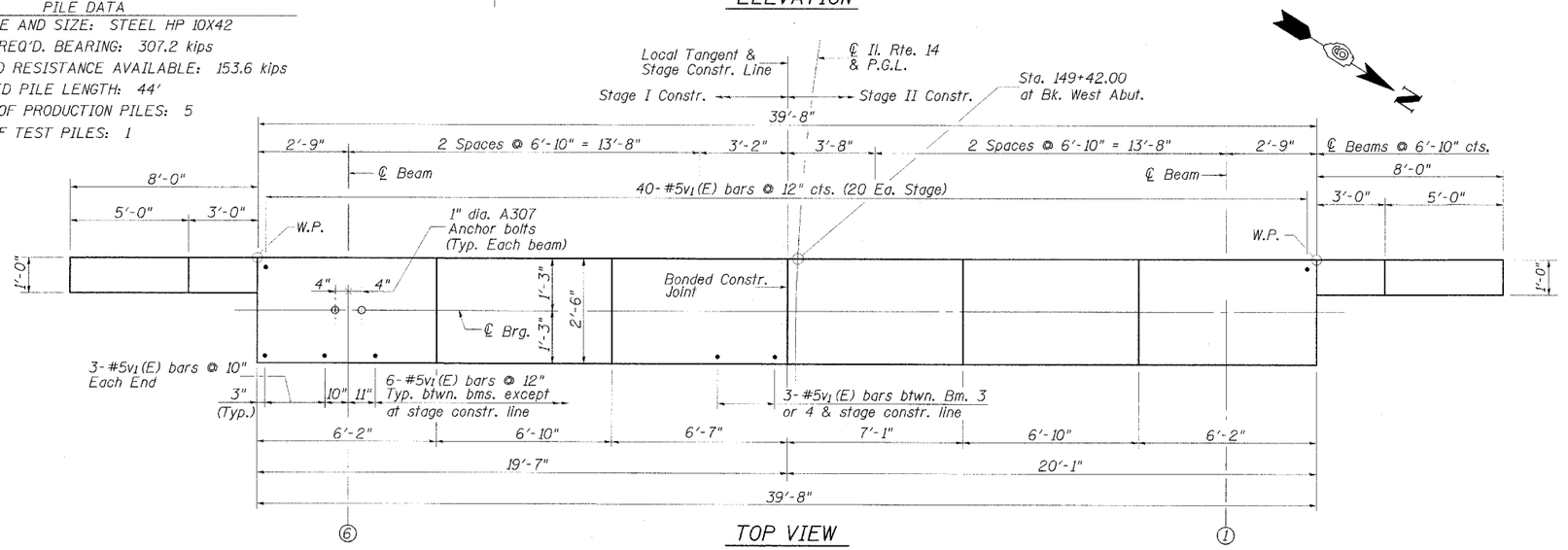


FIELD CUTTING DIAGRAM

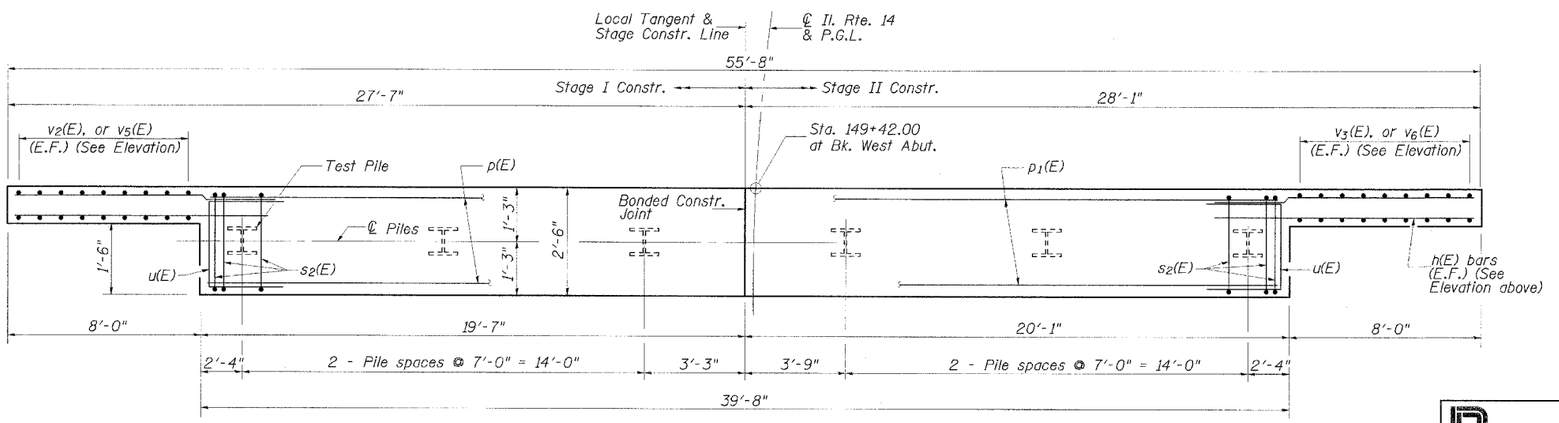
Order $v_2(E)$ & $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.

PILE DATA

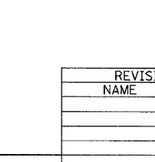
PILE TYPE AND SIZE: STEEL HP 10X42
NOMINAL REQ'D. BEARING: 307.2 kips
FACTORED RESISTANCE AVAILABLE: 153.6 kips
ESTIMATED PILE LENGTH: 44'
NUMBER OF PRODUCTION PILES: 5
NUMBER OF TEST PILES: 1



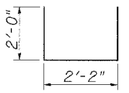
TOP VIEW



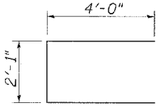
PILE CAP PLAN



BAR s2(E)



BAR s3(E)



BAR u (E)

WEST ABUT. BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	34	#6	11'-0"	——
p (E)	10	#7	19'-1"	——
p1(E)	10	#7	19'-9"	——
p2(E)	4	#5	6'-9"	——
p3(E)	4	#5	19'-3"	——
p4(E)	4	#5	5'-10"	——
s2 (E)	34	#4	11'-5"	□
s3 (E)	28	#4	6'-2"	⊓
u(E)	9	#6	10'-1"	⊏
v1 (E)	76	#5	4'-4"	——
v2 (E)	5	#5	12'-8"	——
v3 (E)	5	#5	9'-10"	——
v5 (E)	8	#5	7'-10"	——
v6 (E)	8	#5	6'-5"	——
Concrete Structures		Cu. Yd.	19.3	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	2580	
Structure Excavation		Cu. Yd.	121	
Bar Splicers		Each	10	
Furnishing Steel Piles HP 10x42		Foot	220	
Driving Piles		Foot	220	
Test Pile Steel HP 10x42		Each	1	

NOTES:

1. Pour steps monolithically with cap.
2. Space reinforcement to miss anchor bolts.
3. See sheet 2 of 18 for abutment backfill requirements.
4. See sheet 15 of 18 for bar splicer details.

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

ILLINOIS DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT

F.A.P. ROUTE 853 (IL. RTE. 14)
ILLINOIS ROUTE 14 OVER
DRUMMOND BRANCH
SECTION 6B-1 STA. 149+71.25
STR. NO. 028-0075 - FRANKLIN COUNTY

SCALE: NONE DRAWN BY: GLD
DATE: 6/6/07 CHECKED BY: WLB

L:\DOT\060660\SHL\028007S\dgn\sheets\WEST ABUTMENT.DGN
6/5/2007