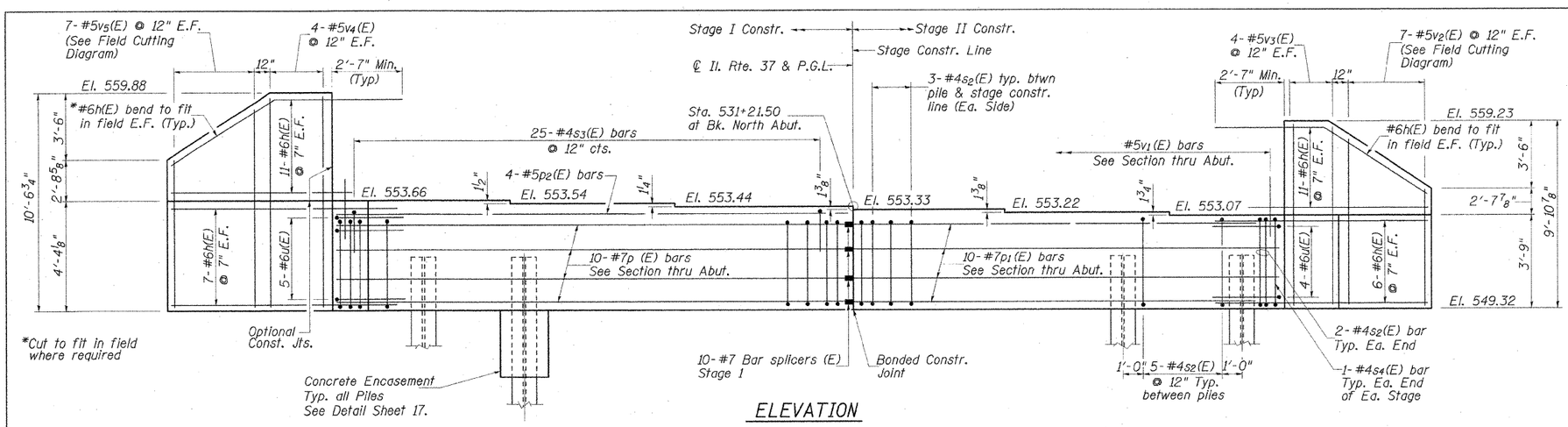
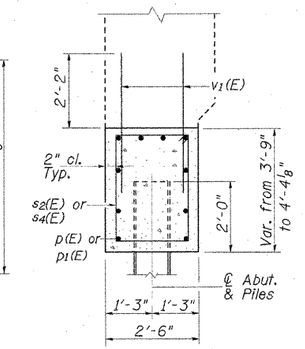
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	113B-2	WILLIAMSON	87	83
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

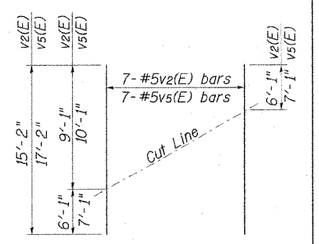
Contract 98777 SHEET 14 OF 18



ELEVATION

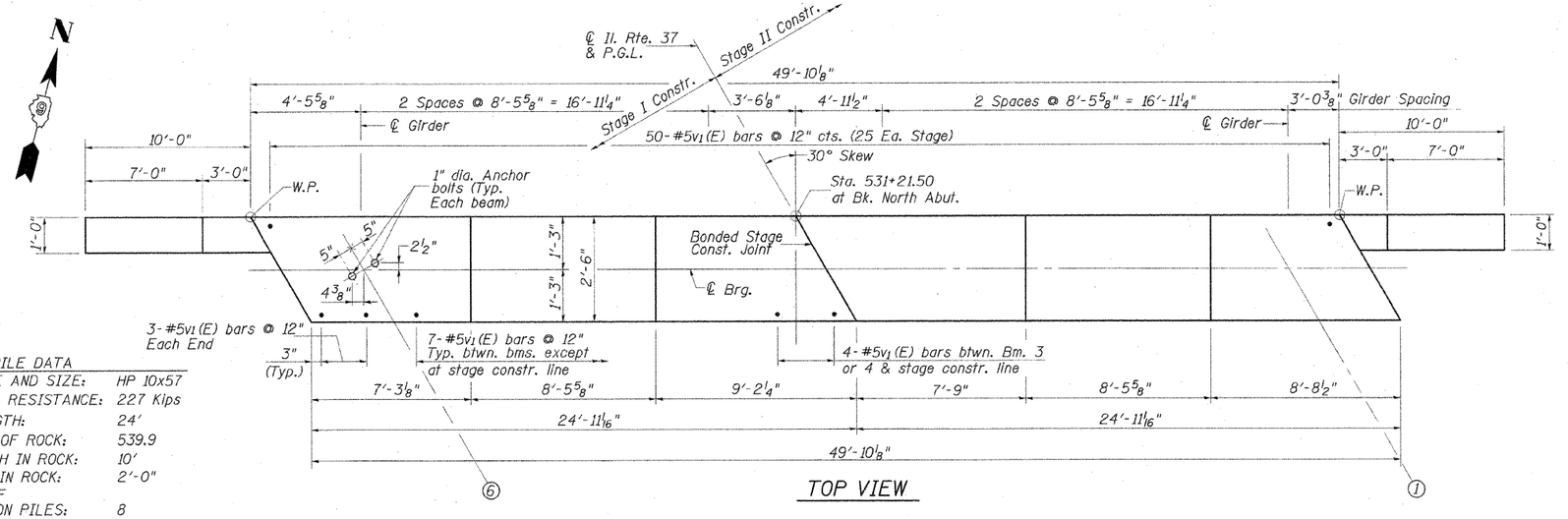


SECTION THRU ABUTMENT



FIELD CUTTING DIAGRAM

Order v_2(E) & v_5(E) full length. Cut as shown and use remainder of bars in opposite face.

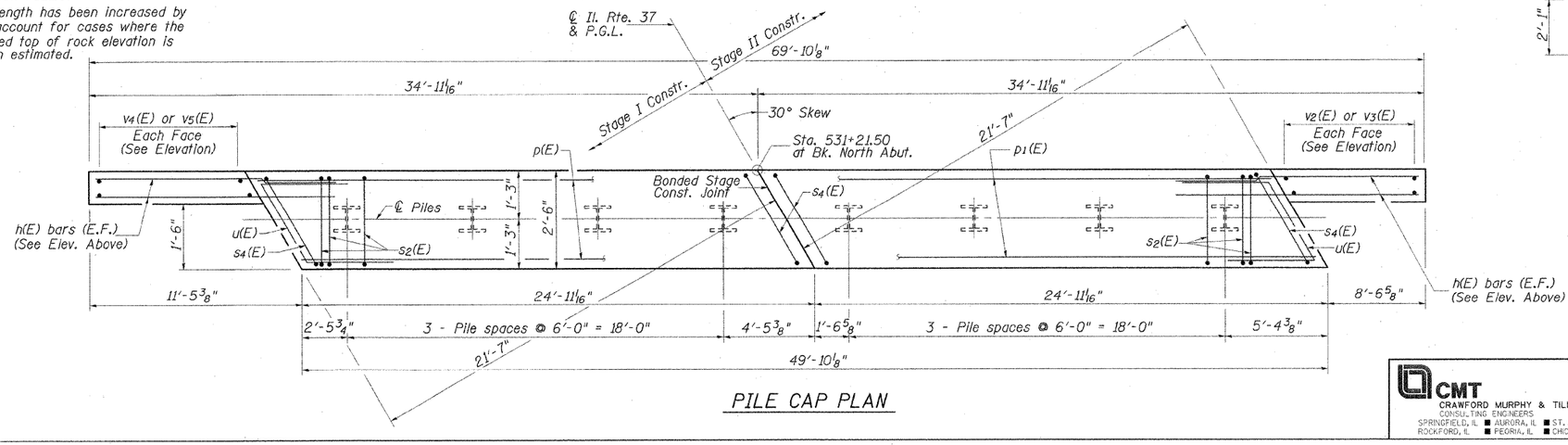


TOP VIEW

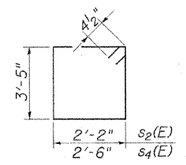
PILE DATA

PILE TYPE AND SIZE:	HP 10x57
FACTORED RESISTANCE:	227 Kips
*PILE LENGTH:	24'
EST. TOP OF ROCK:	539.9
MIN. DEPTH IN ROCK:	10'
MIN. DIA. IN ROCK:	2'-0"
NUMBER OF PRODUCTION PILES:	8

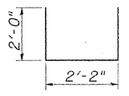
*The pile length has been increased by 2 ft. to account for cases where the encountered top of rock elevation is lower than estimated.



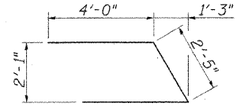
PILE CAP PLAN



BAR s2(E) & s4(E)



BAR s3(E)



BAR u (E)

NORTH ABUT. BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	70	#6	13'-6"	——
p (E)	10	#7	24'-5"	——
p1(E)	10	#7	24'-7"	——
p2(E)	4	#5	24'-5"	——
s_2 (E)	40	#4	11'-11"	⌝
s_3 (E)	25	#4	6'-2"	⌐
s_4 (E)	4	#4	12'-7"	⌝
u (E)	9	#6	10'-5"	⌓
v_1 (E)	92	#5	4'-4"	——
v_2 (E)	7	#5	15'-2"	——
v_3 (E)	8	#5	9'-7"	——
v_4 (E)	8	#5	10'-3"	——
v_5 (E)	7	#5	17'-2"	——

Concrete Structures	Cu. Yd.	25.5
Concrete Encasement	Cu. Yd.	2.8
Reinforcement Bars, Epoxy Coated	Pound	3940
Structure Excavation	Cu. Yd.	236
Bar Splicers	Each	10
Furnishing Steel Piles HP 10x57	Foot	192
Setting Piles in Rock	Each	8

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 16 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
NORTH ABUTMENT
F.A.P. ROUTE 726 (IL. RTE. 37)
ILLINOIS ROUTE 37 OVER
LITTLE SALINE CREEK
SECTION 113B-2 STA. 531+81.00
STR. NO. 100-0091 - WILLIAMSON COUNTY
SCALE: NONE DRAWN BY: GLD
DATE: 12/14/07 CHECKED BY: WLB

L:\IDOT\060860\SN_1000091\draw\sheets\NORTH ABUTMENT.DGN
12/5/2007