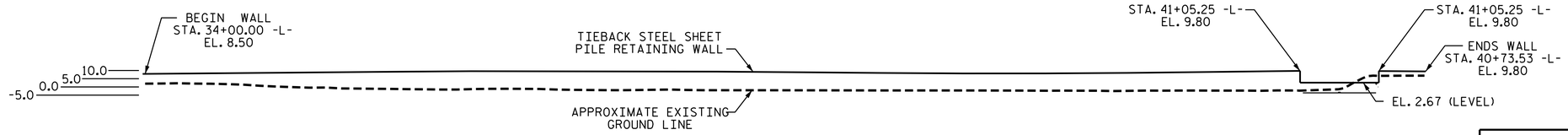
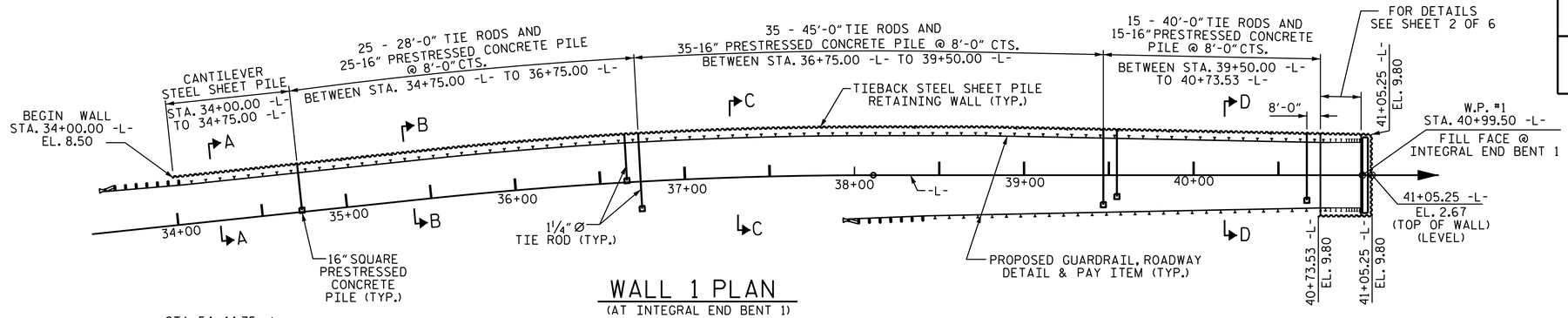


WALL 1 ENVELOPE

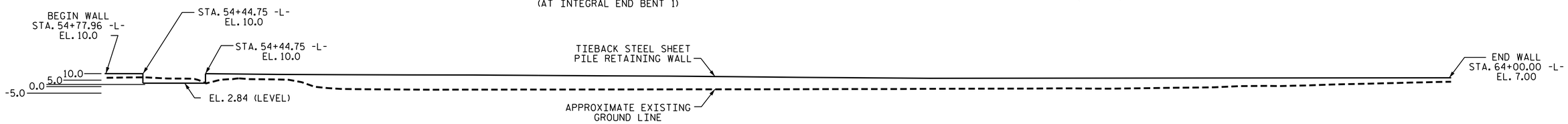
(AT INTEGRAL END BENT 1)

SHEET PILE	MINIMUM SECTION MODULUS	MINIMUM SECTION DEPTH
TIEBACK WALL	30.20 IN3	12"
CANTILEVER WALL	48.50 IN3	14.9"



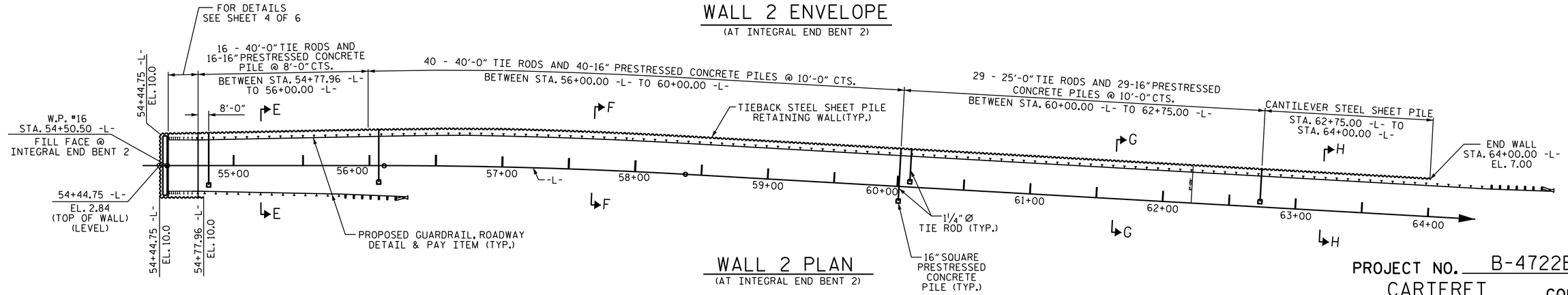
WALL 1 PLAN

(AT INTEGRAL END BENT 1)



WALL 2 ENVELOPE

(AT INTEGRAL END BENT 2)



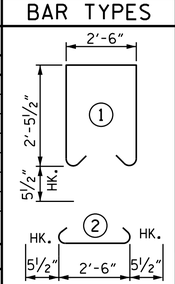
WALL 2 PLAN

(AT INTEGRAL END BENT 2)

BILL OF MATERIAL — WALL 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	165	#6	STR	41'-10"	10368
* B2	33	#6	STR	38'-7"	1912
* B3	11	#6	STR	32'-0"	529
* B4	11	#6	STR	45'-0"	743
* S1	524	#5	1	8'-4"	4554
* S2	524	#5	2	3'-5"	1867
* EPOXY COATED REINFORCING STEEL					19973 LBS.
CLASS AA CONCRETE					262.72 C.Y.
16" PRESTRESSED CONCRETE PILES NOS. = 81				TOTAL LFT. = 2150	
STEEL SHEET PILE					29074 SQ.FT.

BAR TYPES



BILL OF MATERIAL — WALL 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	231	#6	STR	42'-0"	14572
* B4	11	#6	STR	45'-0"	743
* B5	33	#6	STR	41'-5"	2058
* B6	11	#6	STR	34'-5"	569
* S1	695	#5	1	8'-4"	6006
* S2	695	#5	2	3'-5"	2462
* EPOXY COATED REINFORCING STEEL					26410 LBS.
CLASS AA CONCRETE					346.38 C.Y.
16" PRESTRESSED CONCRETE PILES NOS. = 91				TOTAL LFT. = 2768	
STEEL SHEET PILE					36941 SQ.FT.

PROJECT NO. B-4722B

CARTERET COUNTY

STATION: 47+75.00 -L-

SHEET 1 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TIEBACK STEEL SHEET PILE RETAINING WALL

NORTH CAROLINA PROFESSIONAL SEAL 22005 ENGINEER A. KEITH PASCHAL

DocuSigned by: A. Keith Paschal F8B6AD6DB2FC48F... 1/24/2015

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			W-1
1			3					TOTAL SHEETS
2			4					7

DRAWN BY : B.N.BARODAWALA DATE : 11-6-14
CHECKED BY : D. G. ELY DATE : 11-26-14
DESIGN ENGINEER OF RECORD: A. K. PATEL DATE : 12-9-14

24-JAN-2015 11:08
R:\structures\Final Plans\B4722B_SHEET PILE WALL.dgn
kpaschal