CANADA RD RET WALLS.DGN

CONST. NO. 79903-3114-44

PROJECT NO.	YEAR	SHEET NO.
NH-I-40-1(283)20	2014	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

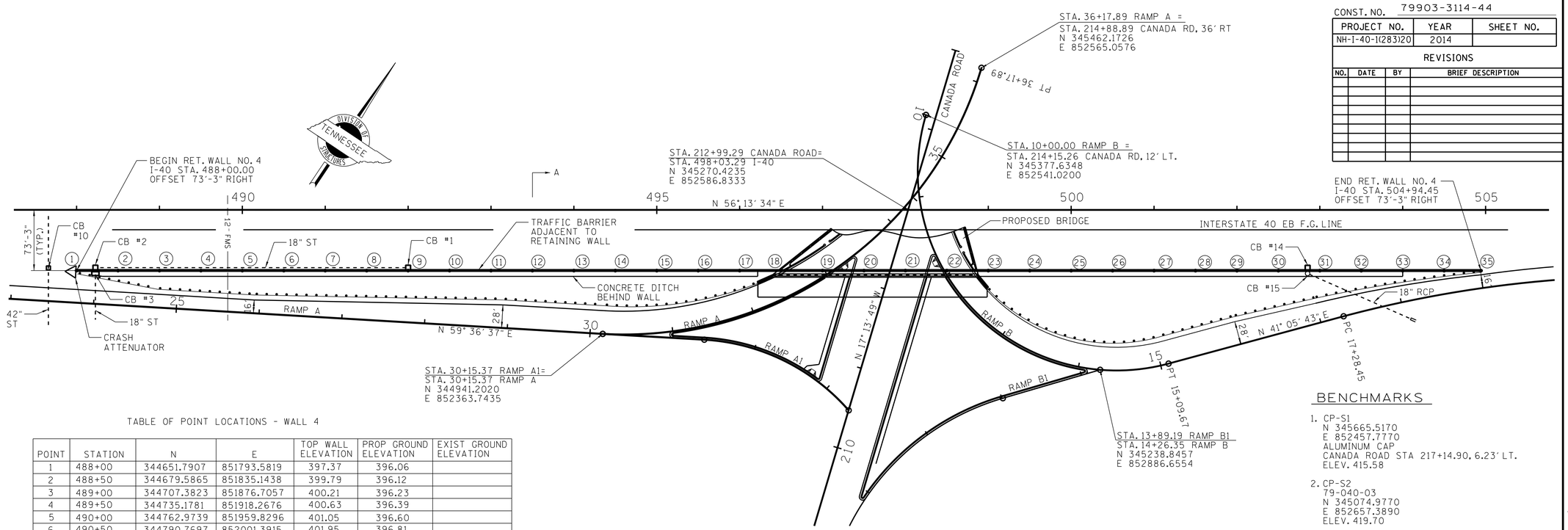

TABLE OF POINT LOCATIONS - WALL 4

POINT	STATION	N	E	TOP WALL ELEVATION	PROP GROUND ELEVATION	EXIST GROUND ELEVATION
1	488+00	344651.7907	851793.5819	397.37	396.06	
2	488+50	344679.5865	851835.1438	399.79	396.12	
3	489+00	344707.3823	851876.7057	400.21	396.23	
4	489+50	344735.1781	851918.2676	400.63	396.39	
5	490+00	344762.9739	851959.8296	401.05	396.60	
6	490+50	344790.7697	852001.3915	401.95	396.81	
7	491+00	344818.5655	852042.9534	403.07	397.02	
8	491+50	344846.3614	852084.5153	404.20	397.23	
9	492+00	344874.1572	852126.0772	405.33	397.44	
10	492+50	344901.9530	852167.6392	406.45	397.65	
11	493+00	344929.7488	852209.2011	407.58	397.86	
12	493+50	344957.5446	852250.7630	408.24	398.07	
13	494+00	344985.3404	852292.3249	408.40	398.28	
14	494+50	345013.1362	852333.8868	408.56	398.49	
15	495+00	345040.9320	852375.4487	409.49	398.70	
16	495+50	345068.7278	852417.0107	413.36	398.91	
17	496+00	345096.5236	852458.5726	416.57	399.12	
18	496+50	345124.3194	852500.1345	414.78	399.33	
19	497+00	345152.1153	852541.6964	415.44	399.54	
20	497+50	345179.9111	852583.2583	416.10	399.75	
21	498+00	345207.7069	852624.8203	416.31	399.92	
22	498+50	345235.5027	852666.3822	415.85	400.03	
23	499+00	345263.2985	852707.9441	414.52	400.07	
24	499+50	345291.0943	852749.5060	411.72	400.04	
25	500+00	345318.8901	852791.0679	408.05	399.93	
26	500+50	345346.6859	852832.6298	403.89	399.76	
27	501+00	345374.4817	852874.1918	400.70	399.51	
28	501+50	345402.2775	852915.7537	400.11	399.19	
29	502+00	345430.0733	852957.3156	399.61	398.79	
30	502+50	345457.8691	852998.8775	399.14	398.33	
28	503+00	345485.6650	853040.4394	399.29	397.80	
29	503+50	345513.4608	853082.0013	399.59	397.22	
30	504+00	345541.2566	853123.5633	399.52	396.64	
31	504+50	345569.0524	853165.1252	398.69	396.06	
32	504+94.45	345593.7614	853202.0715	397.42	395.55	

ALL POINTS OFFSET 73'-3" LEFT OF ℄ I-40

BENCHMARKS

1. CP-S1
   N 345665.5170
   E 852457.7770
   ALUMINUM CAP
   CANADA ROAD STA 217+14.90, 6.23' LT.
   ELEV. 415.58

2. CP-S2
   79-040-03
   N 345074.9770
   E 852657.3890
   ELEV. 419.70

3. CP-S210
   N 344369.1430
   E 852668.0590
   CANADA RD STA. 204+05.21, 179.96' LT.
   ELEV. 398.63

GENERAL NOTES

1. WALL SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH AASHTO SPECIFICATIONS. (SEISMIC PERFORMANCE CATEGORY C WITH AS = 0.431, SDS = 0.828, SD1 = 0.532. (1000 YEAR RETURN PERIOD). DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER WITH RETAINING WALL DRAWINGS.
2. WALL SHALL BE DESIGNED FOR LIVE LOAD SURCHARGE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

NOTE: WHEN PARAPET ON TOP OF RETAINING WALL IS REQUIRED AND MSE OR SOLDIER PILE WALL SYSTEM IS SELECTED, A MOMENT SLAB WILL BE REQUIRED AND PAID FOR IN THE COST OF THE RETAINING WALL. DESIGN OF THE MOMENT SLAB IS THE RESPONSIBILITY OF THE WALL SYSTEM COMPANY. MOMENT SLAB IS TO BE DESIGNED BY A TENNESSEE LICENSED ENGINEER.

NOTE: EXPOSED WALL SURFACES SHALL BE FINISHED WITH TEXTURE COATING AND ASHLAR STONE FORMLINER PATTERN. COLOR AND PATTERN FINISH OF SHALL MATCH THOSE USED ON THE BRIDGE. COST OF TEXTURE COATING AND FORMLINER FINISH TO BE INCLUDED IN COST OF THE RETAINING WALL.

ESTIMATED QUANTITIES - WALL NO. 4

	ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	604-07.04	RETAINING WALL NO. 4 (STATION 488+00.00)	S.F.	16,816
1	711-05.72	51" SINGLE SLOPE BARRIER WALL (S-SSMB-3) - FACE	L.F.	1695
	714-01.21	STRUCTURAL LIGHTING (RET. WALL NO. 4)	L.S.	1
	714-01.22	STRUCTURAL LIGHTING (RET. WALL NO. 4)	L.S.	1

NOTE: AREA OF WALL FOR PAYMENT SHALL BE MEASURED FROM TOP OF WALL TO 2' BELOW GROUND LINE.

ITEM 714-01.21 L.S. - STRUCTURAL LIGHTING (RET. WALL NO. 4) INCLUDES:
A) 885 L.F. OF 2" C (SCHEDULE 40 PVC)
B) 12 - ANCHOR BOLTS (4 PER POLE)
C) 2 - PULL BOX (MEMPHIS STANDARD)

ITEM 714-01.22 L.S. - STRUCTURAL LIGHTING (RET. WALL NO. 4) INCLUDES:
A) 640 L.F. OF 2" C (SCHEDULE 40 PVC)
B) 8 - AVCHOR BOLTS (4 PER POLE)
C) 2 - PULL BOXES (MEMPHIS STANDARD)

(1) ITEM NO. 711-05.72 TO BE PAID FOR AS A ROADWAY ITEM.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL LAYOUT
RETAINING WALL NO. 4
ALONG INTERSTATE 40
AT
CANADA ROAD INTERCHANGE
STATION 488+00.00
SHELBY COUNTY
2014

CORRECT Wayne G. Sayre
ENGINEER OF STRUCTURES

M-441-324

DESIGNED BY _____ DATE _____
DRAWN BY D. SHIKE DATE 02-13
SUPERVISED BY K. MCLAUGHLIN DATE 02-13
CHECKED BY _____ DATE _____

dgnspec
07/08/98
FINAL