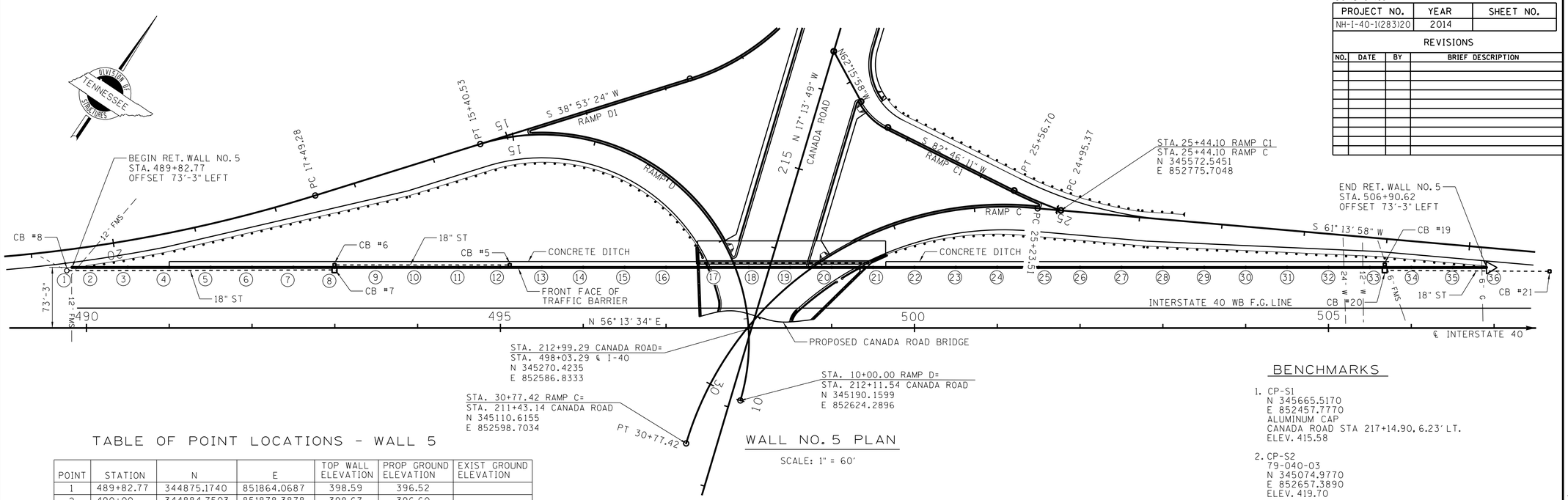
CANADA RD RET WALLS.DGN

CONST. NO. 79903-3114-44

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

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



WALL NO. 5 PLAN

SCALE: 1" = 60'

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

TABLE OF POINT LOCATIONS - WALL 5

POINT	STATION	N	E	TOP WALL ELEVATION	PROP GROUND ELEVATION	EXIST GROUND ELEVATION
1	489+82.77	344875.1740	851864.0687	398.59	396.52	
2	490+00	344884.7503	851878.3878	398.67	396.60	
3	490+50	344912.5462	851919.9498	399.14	396.81	
4	491+00	344940.3420	851961.5117	399.26	397.02	
5	491+50	344968.1378	852003.0736	399.42	397.23	
6	492+00	344995.9336	852044.6355	399.55	397.44	
7	492+50	345023.7294	852086.1974	399.46	397.65	
8	493+00	345051.5252	852127.7594	399.12	397.86	
9	493+50	345079.3210	852169.3213	398.89	398.07	
10	494+00	345107.1168	852210.8832	398.80	398.28	
11	494+50	345134.9126	852252.4451	398.66	398.49	
12	495+00	345162.7084	852294.0070	398.21	398.70	
13	495+50	345190.5042	852335.5689	399.56	398.91	
14	496+00	345218.3001	852377.1309	402.42	399.12	
15	496+50	345246.0959	852418.6928	406.52	399.33	
16	497+00	345273.8917	852460.2547	412.12	399.54	
17	497+50	345301.6875	852501.8166	415.47	399.75	
18	498+00	345329.4833	852543.3785	416.30	399.92	
19	498+50	345357.2791	852584.9404	416.51	400.03	
20	499+00	345385.0749	852626.5024	416.00	400.07	
21	499+50	345412.8707	852668.0643	415.78	400.04	
22	500+00	345440.6665	852709.6262	416.23	399.93	
23	500+50	345468.4623	852751.1881	413.76	399.76	
24	501+00	345496.2581	852792.7500	410.82	399.51	
25	501+50	345524.0539	852834.3120	410.69	399.19	
26	502+00	345551.8498	852875.8739	410.61	398.79	
27	502+50	345579.6456	852917.4358	409.73	398.33	
28	503+00	345607.4414	852958.9977	408.51	397.80	
29	503+50	345635.2372	853000.5596	406.88	397.22	
30	504+00	345663.0330	853042.1215	405.24	396.64	
31	504+50	345690.8288	853083.6835	403.61	396.06	
32	505+00	345718.6246	853125.2454	401.98	395.48	
33	505+50	345746.4204	853166.8073	400.35	394.90	
34	506+00	345774.2162	853208.3692	399.46	394.32	
35	506+50	345802.0120	853249.9311	398.03	393.75	
36	506+90.62	345824.5913	853283.6929	396.59	393.28	

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

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 OF FINISH 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. 5

	ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	604-07.05	RETAINING WALL NO. 5 (STATION 489+82.77)	S.F.	15,914
1	711-05.72	51" SINGLE SLOPE BARRIER WALL (S-SSMB-3) - FACE	L.F.	1708
	714-01.23	STRUCTURAL LIGHTING (RET. WALL NO. 5)	L.S.	1
	714-01.24	STRUCTURAL LIGHTING (RET. WALL NO. 5)	L.S.	1

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

ITEM 714-01.23 L.S. - STRUCTURAL LIGHTING (RET. WALL NO. 5) INCLUDES:
A) 765 L.F. OF 2" C (SCHEDULE 40 PVC)
B) 12 - ANCHOR BOLTS (4 PER POLE)
C) 2 - PULL BOX (MEMPHIS STANDARD)

ITEM 714-01.24 L.S. - STRUCTURAL LIGHTING (RET. WALL NO. 5) INCLUDES:
A) 785 L.F. OF 2" C (SCHEDULE 40 PVC)
B) 12 - 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. 5 ALONG INTERSTATE 40 AT CANADA ROAD INTERCHANGE STATION 489+82.77 SHELBY COUNTY 2014

CORRECT Wayne G. Sieger
ENGINEER OF STRUCTURES

M-441-327

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

dgnspec
03-08-13