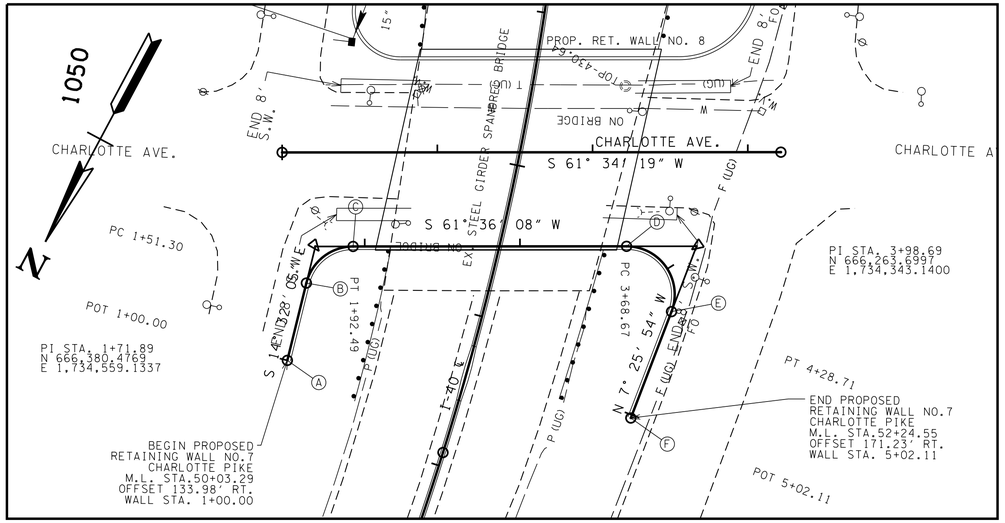
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BH-I-40-4(86)	2V



PLAN VIEW OF RETAINING WALL NO.7

CONTROL POINT DATA

CP-S76
N 666,496.1866
E 1,734,477.4770
STA. 1047+84.71
OFFSET 60.44' LT.

NOTE : THE RETAINING WALL PAY QUANTITY IS BASED ON THE SURFACE AREA OF CONCRETE FROM THE APPROXIMATE TOP OF WALL TO A MINIMUM OF 2' BELOW THE EXISTING/PROPOSED GROUND LINE.

ESTIMATED QUANTITIES FOR RETAINING WALL

ITEM NO.	604-07.07
DESCRIPTION	RETAINING WALL NO.7 S.F.
QUANTITY	5,717 S.F.

THE RETAINING WALL PAY QUANTITY INCLUDES 20' REINFORCED SELECT BACKFILL USED IN ALL FILL LOCATIONS. ALSO INCLUDES REMOVAL OF EXISTING 1' OF TOPSOIL.

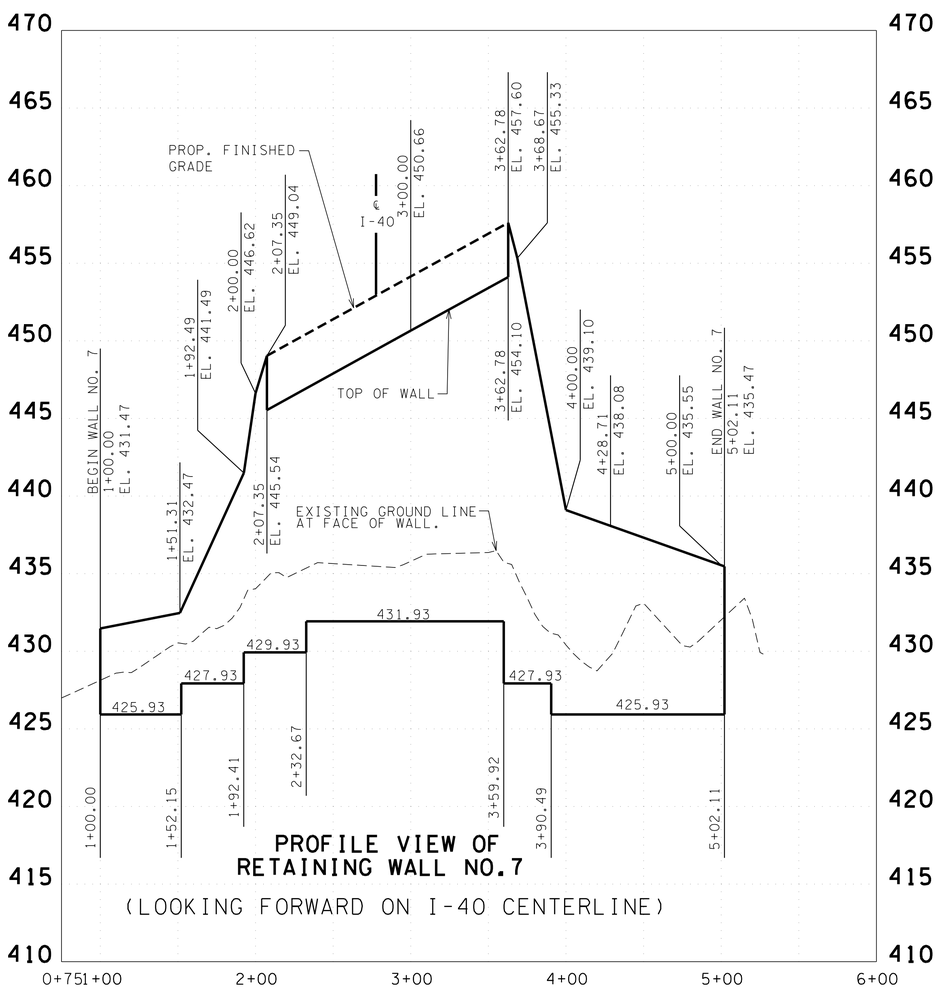
UNDERCUTTING AND BACKFILLING WITH GRANULAR MATERIAL, FILL OUTSIDE OF THE REINFORCED ZONE AND TEMPORARY SHORING REQUIRED FOR CONSTRUCTION OF THE WALL ARE PAID IN SEPARATE PAY ITEMS.

PROPOSED WALL NO.7 ALIGNMENT

WALL STA.	CODE	LOCATION	M.L. STA.	N	E	M.L. OFFSET	FROM-TO	BEARING/RADIUS	LENGTH
1+00.00	A	CHARLOTTE	50+03.29	666,457.1297	1,734,538.9155	133.98' RT.	A - B	S 14°32'05" E	51.30'
1+51.31	B	CHARLOTTE	50+15.58	666,407.4654	1,734,551.8197	84.16' RT.	B - C	R=31.00'	41.19'
1+92.49	C	CHARLOTTE	50+45.68	666,372.4254	1,734,536.5691	60.60' RT.	C - D	S 61°36'08" W	176.18'
3+68.67	D	CHARLOTTE	52+21.86	666,288.5520	1,734,381.6298	60.60' RT.	D - E	R=31.00'	60.04'
4+28.71	E	CHARLOTTE	52+50.81	666,311.7879	1,734,336.1346	102.70' RT.	E - F	N 07°25'54" W	73.40'
5+02.11	F	CHARLOTTE	52+24.55	666,384.5632	1,734,326.6027	171.23' RT.			

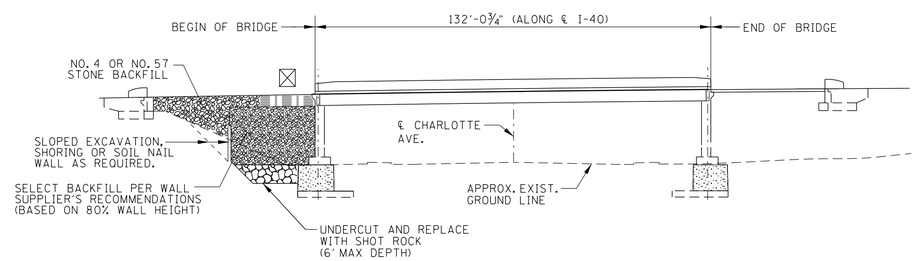
WALL NO.7 LOCATION STAKE-OUT POINTS

RET. WALL BASELINE STATION	CHARLOTTE CENTERLINE STATION	N	E	CHARLOTTE CENTERLINE REFERENCE	TOP RET. WALL ELEVATION	BOTTOM RET. WALL ELEVATION
1+00.00	50+03.29	666,457.1297	1,734,538.9155	133.98' RT.	431.47	425.93
1+51.31	50+15.58	666,407.4654	1,734,551.8197	84.16' RT.	432.47	425.93
1+92.49	50+45.68	666,372.4254	1,734,536.5691	60.60' RT.	441.49	429.93
2+00.00	50+53.14	666,638.8498	1,734,529.9638	60.60' RT.	446.62	429.93
2+07.35	50+60.54	666,365.3487	1,734,523.4963	60.60' RT.	449.04	429.93
3+00.00	51+53.19	666,321.2443	1,734,442.0223	60.60' RT.	450.66	431.93
3+62.78	52+15.97	666,291.3571	1,734,386.8118	60.60' RT.	457.60	427.93
3+68.67	52+21.86	666,288.5520	1,734,381.6298	60.60' RT.	455.33	427.93
4+00.00	52+48.12	666,288.8252	1,734,351.6205	75.13' RT.	439.10	425.93
4+28.71	52+50.81	666,311.7879	1,734,336.1346	102.70' RT.	438.08	425.93
5+00.00	52+25.30	666,382.4723	1,734,326.8766	169.27' RT.	435.55	425.93
5+02.11	52+24.55	666,384.5632	1,734,326.6027	171.23' RT.	435.47	425.93



PROFILE VIEW OF RETAINING WALL NO.7

(LOOKING FORWARD ON I-40 CENTERLINE)



☒ NOTE: SLEEPER SLAB FOOTING FOR PAVEMENT AT BRIDGE ENDS MAY BE ELIMINATED WITH THE INSTALLATION GEOSYNTHETICALLY REINFORCED SOIL BACKFILL WITH BIAXIAL GEOGRID AT 4" LIFTS WITH SELECT BACKFILL.

SEE SHEETS 2X AND 2Y FOR ADDITONAL NOTES AND DETAILS

SEALED BY

RYAN SWEENEY REGISTERED ENGINEER AGRICULTURE No. 111998 STATE OF TENNESSEE
02/12/2015

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL CONCEPTUAL DRAWING

WALL NO. 7

SCALE: 1"=50' HORIZ.
1"=5' VERT.

02/12/2015 4:42:20 PM
Q:\280715\1\002V.sht