

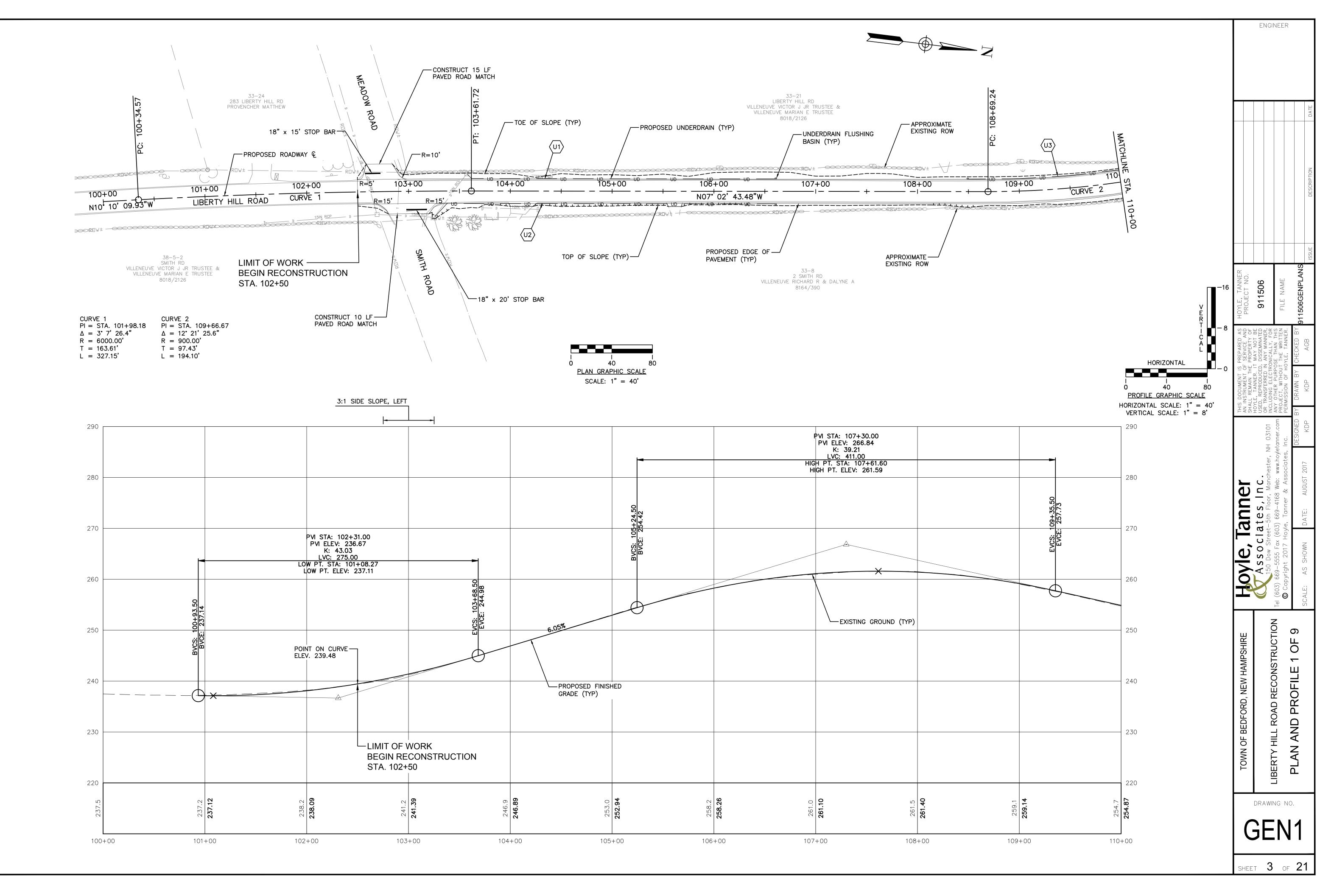
GENERAL NOTES

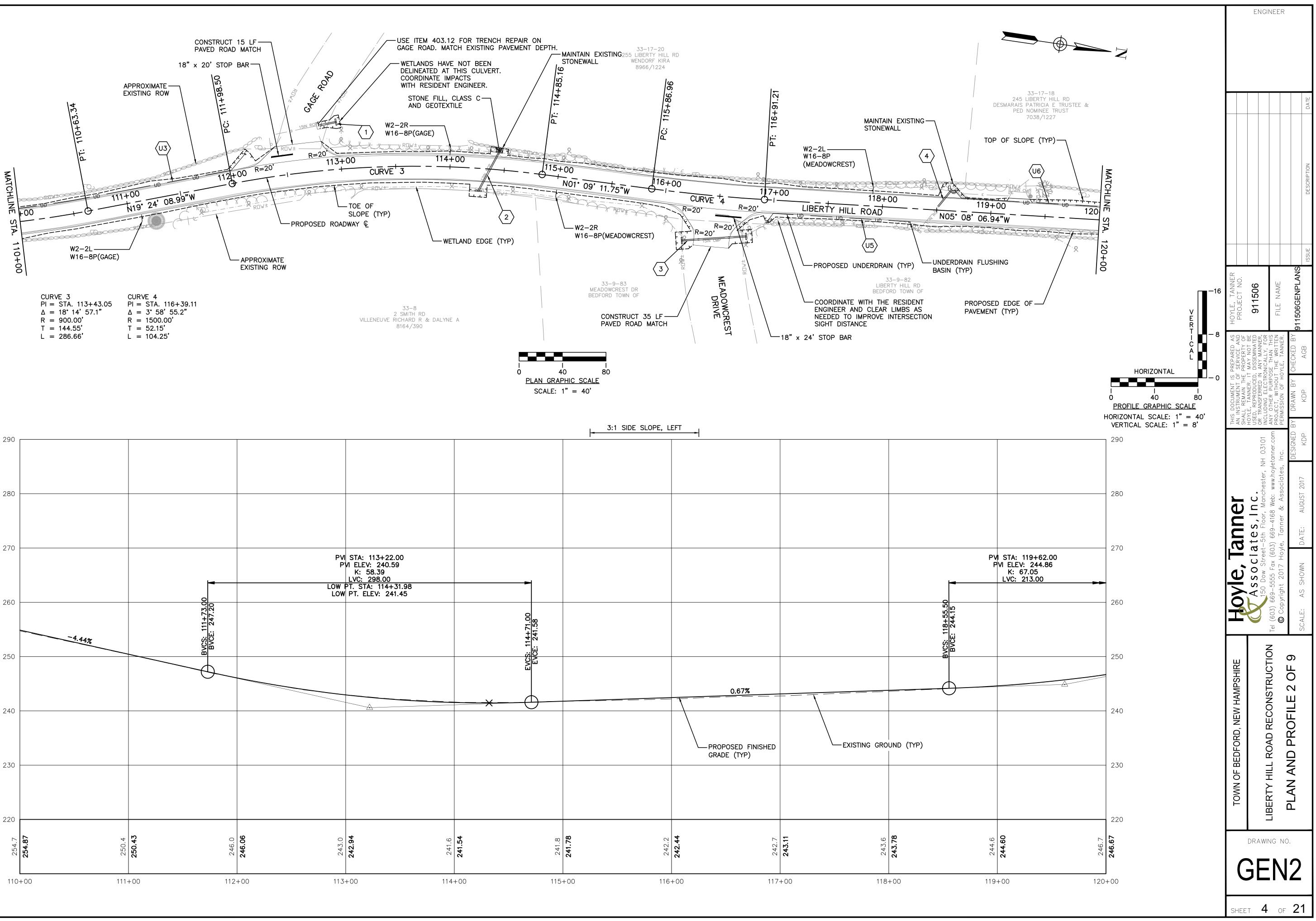
- 1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2016 AND "CONTRACT SPECIFICATIONS OF BEDFORD, NH - DEPARTMENT OF PUBLIC WORKS" OF WHICH THESE PLANS ARE A PART. IN THE EVENT ANY DISCREPANCIES EXIST BETWEEN THESE PLANS AND WRITTEN PORTIONS OF THE CONTRACT SPECIFICATIONS, THE CONTENT OF THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- 2. THIS PROJECT SHALL ALSO BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD PLANS FOR ROAD CONSTRUCTION (2010). THESE PLANS CAN BE FOUND ON THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION WEBSITE AT: https://www.nh.gov/dot/org/projectdevelopment/highwaydesign/standardplans/index.htm
- 3. ALL WORK SHALL BE COMPLETED WITHIN THE RIGHT-OF-WAY UNLESS SPECIFIED BY THE PLANS OR THE TOWN ENGINEER. ANY WORK REQUIRED ON PRIVATE PROPERTY SHALL BE COORDINATED WITH THE HOMEOWNER AND THE TOWN ENGINEER TO MINIMIZE INCONVENIENCE AND PROVIDE ACCESS TO THE HOMEOWNER. CONTRACTOR SHALL CONTACT THE TOWN OF BEDFORD. TOWN ENGINEER. FOR LIMITS OF ALL PROPOSED EASEMENTS PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES PRIOR TO COMMENCEMENT OF THIS WORK.
- 5. NO EXISTING MONUMENTS, BOUNDS OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- 6. UNSUITABLE MATERIAL, ROOTS AND STUMPS WITHIN THE LIMITS OF ROADBED SHALL BE REMOVED AS ORDERED.
- 7. DIMENSIONS, ANGLES, BEARINGS, AND ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM LIMITED FIELD INVESTIGATIONS AND SURVEY AND MAY NOT ACCURATELY REFLECT ACTUAL FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY PROJECT WORK. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK. SHOP DRAWINGS REQUIRED FOR VARIOUS ITEMS OF THE WORK SHALL INDICATE THE ACTUAL FIELD MEASUREMENTS AND SHALL BE SO NOTED.
- 8. REMOVE TOPSOIL FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF THE SLOPE LINES. UNLESS OTHERWISE DIRECTED, STOCKPILE TOPSOIL AND USE IT ON THIS PROJECT AS NEEDED UNDER SECTION 646.
- 9. THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION.
- 10. SHOULD ANY ALTERING, ADJUSTING, OR RELOCATING OF UTILITIES BE REQUIRED, THIS WORK SHALL BE COMPLETED BY THE APPROPRIATE UTILITY COMPANY AND IS NOT PART OF THE CONTRACT. HOWEVER, THE CONTRACTOR SHALL FACILITATE THE UTILITY COMPANY IN THEIR PERFORMANCE OF THIS WORK.
- 11. ALL SIGNS, PROPERTY BOUNDS, ETC. DISTURBED BY THE CONSTRUCTION ACTIVITIES SHALL BE RESET BY THE CONTRACTOR OR HIS AGENT, UNLESS OTHERWISE NOTED ON THE PLANS OR BY THE RESIDENT ENGINEER.
- 12. SAWCUT ALL EXISTING PAVEMENT AT LIMITS OF WORK.
- 13. CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND REMOVE TREES AS NECESSARY TO COMPLETE THE WORK AND/OR AS DIRECTED BY THE RESIDENT ENGINEER.
- 14. CONSTRUCT 3 LF PAVED DRIVE APRON FOR ALL EXISTING DRIVEWAYS AND SIDE ROADS UNLESS OTHERWISE NOTED ON THESE PLANS, OR AS DIRECTED.
- 15. CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER IF LEDGE IS ENCOUNTERED DURING CONSTRUCTION.
- 16. ALL NEW EMBANKMENT SLOPES SHALL BE LOAMED AND SEEDED. MULCH AS DIRECTED.
- 17. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR TRAFFIC CONTROL AND ASSOCIATED SIGNAGE AND WARNING DEVICES DURING EXECUTION OF THIS CONTRACT.
- 18. CATCH BASIN GRATE ELEVATIONS SHALL BE SET ¹/₂" BELOW FINAL GRADE. WEARING COURSE SHALL TAPER INTO THE GRATE.
- 19. GROUND SURVEY AND BASE PLAN PROVIDED BY GM2 ASSOCIATES, INC.
- 20. EXPOSED SOILS IN DELINEATED WETLANDS AT OUTFALLS AND ALONG SWALES WILL BE SEEDED WITH ERNMX-137, SPECIALIZED WETLAND MIX FOR SHADED OBL-FACW AREAS, OR EQUIVALENT.
- 21. CONTRACTOR TO MAINTAIN EXISTING DRIVE PIPES UNLESS OTHERWISE NOTED.
- 22. NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES ROUTINE ROADWAY AND RAILWAY MAINTENANCE NOTIFICATIONS HAVE BEEN OBTAINED FOR THIS PROJECT. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THESE NOTIFICATIONS AND THE ASSOCIATED PLANS.
- 23. TYPICAL SECTION MATERIALS FOR PAVEMENT AND SUBBASE PROVIDED BY THE TOWN OF BEDFORD, NH.
- 24. ANY MAILBOXES THAT NEED TO BE ADJUSTED AND/OR RELOCATED THROUGHOUT THE PROJECT ARE SUBSIDIARY TO ITEM 203.1 - COMMON EXCAVATION.
- 25. STOP BARS SHALL BE LOCATED 6' OFF OF LIBERTY HILL ROAD EDGE OF PAVEMENT UNLESS DIRECTED BY RESIDENT ENGINEER.

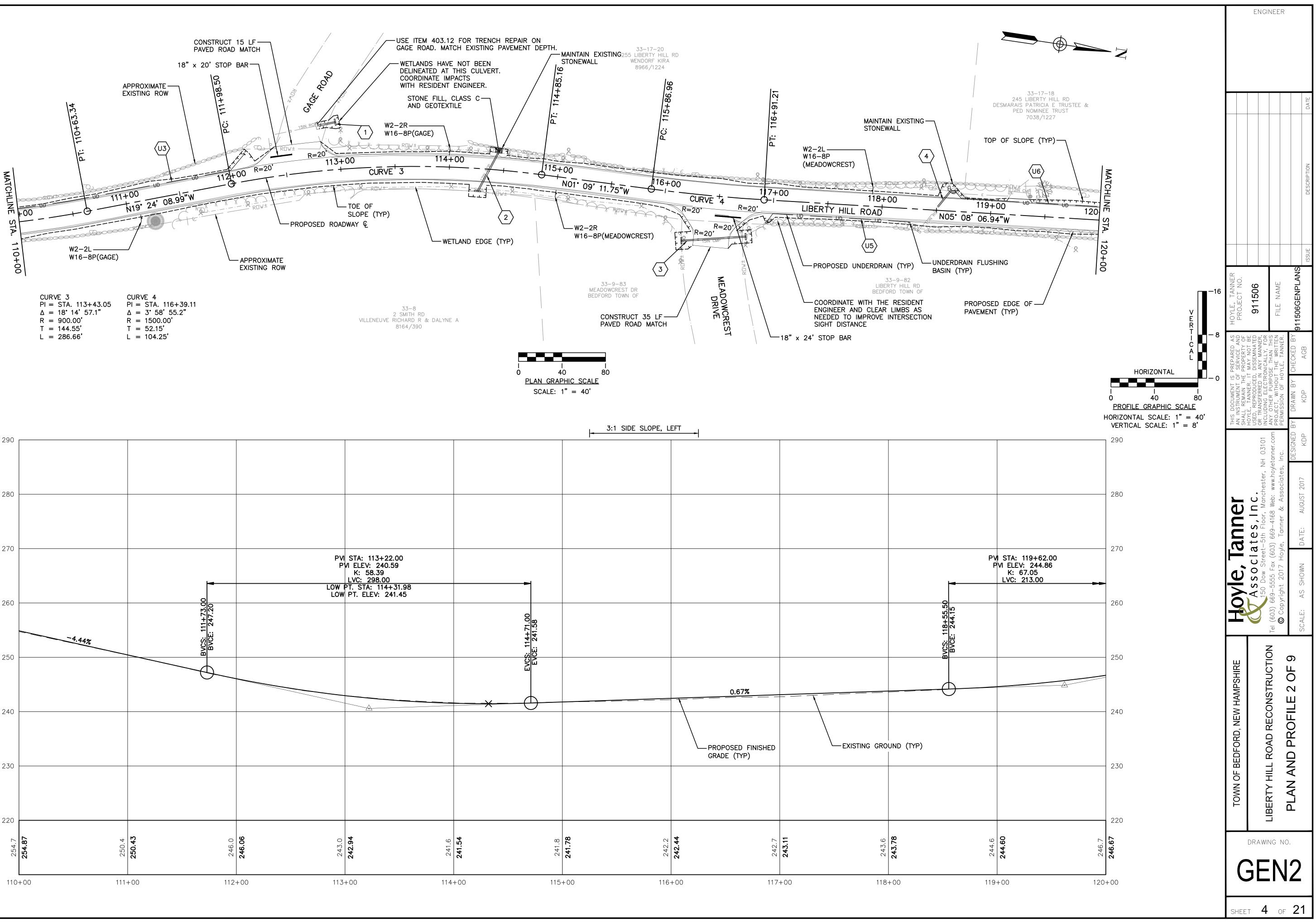
SCHEDULE OF SIGNS						
<u>GRAPHIC</u>	LABEL	DIMENSIONS	LOCATION*			
	W2-2L	30" × 30"	111+10, RT 117+90, LT 128+00, RT 144+75, LT 157+50, LT 174+50, LT 176+50, RT			
	W2-2R	30" × 30"	114+00, LT 115+00, RT 130+65, LT 141+90, RT 154+50, RT 170+75, RT 179+50, LT			
	W2-7R	30" × 30"	159+50, RT 162+65, LT			
Old Sawmill Rd ➡ ← Strawberry Hill Rd	W16-8aP(a)	42" x 15"	159+50, RT			
Strawberry Hill Rd ➡ ◀ Old Sawmill Rd	W16-8aP(b)	42" x 15"	162+65, LT			
Gage Rd	W16-8P(GAGE)	24" × 8"	111+10, RT 114+00, LT			
Meadowcrest Dr	W16-8P(MEADOWCREST)	42" × 8"	115+00, RT 117+90, LT			
Olde English Rd	W16-8P(OLDE ENGLISH)	36" × 8"	128+00, RT 130+65, LT			
Camelot Dr	W16-8P(CAMELOT)	30" × 8"	141+90, RT 144+75, LT			
Highland Farms Dr	W16-8P(HIGHLAND FARMS)	42" × 8"	154+50, RT 157+50, LT			
Caron Rd	W16-8P(CARON)	24" × 8"	170+75, RT 174+50, LT			
Appledor Rd	W16-8P(APPLEDOR)	30" × 8"	176+50, RT 179+50, LT			

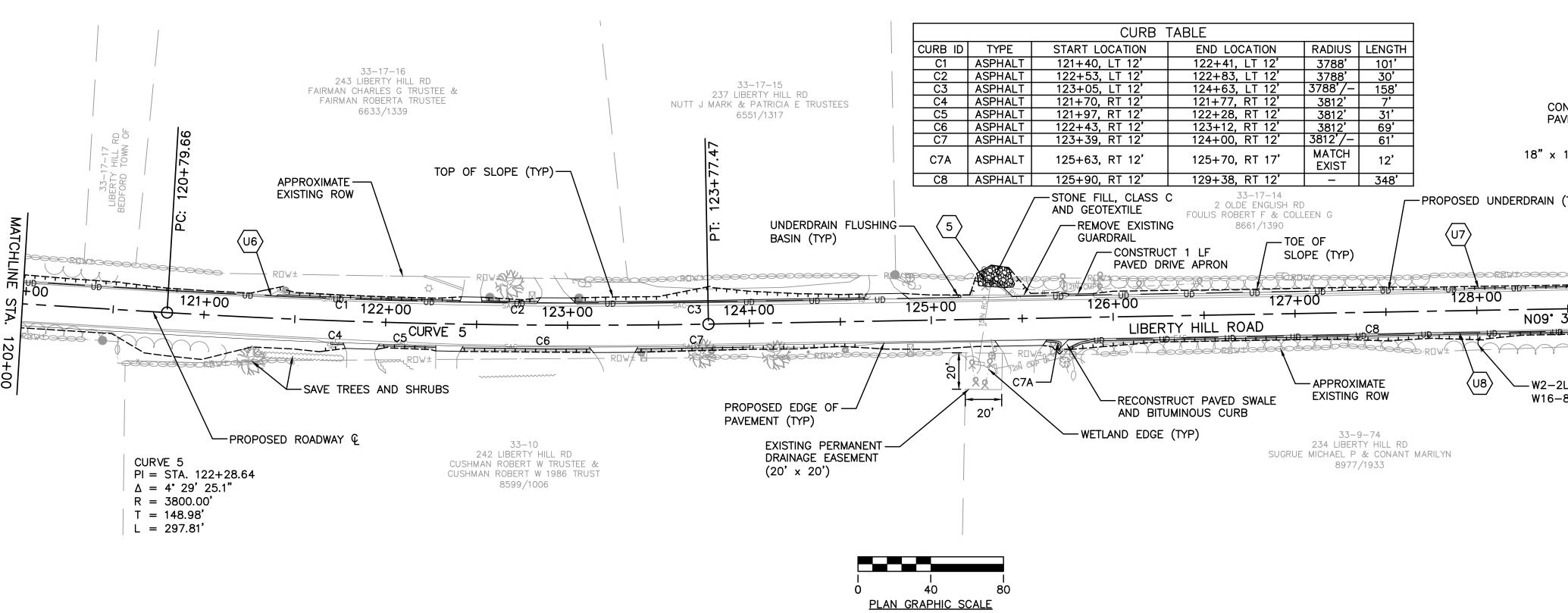
*STATIONING OF SIGNS IS APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY RESIDENT ENGINEER DURING CONSTRUCTION IN ACCORDANCE WITH MUTCD REQUIREMENTS.

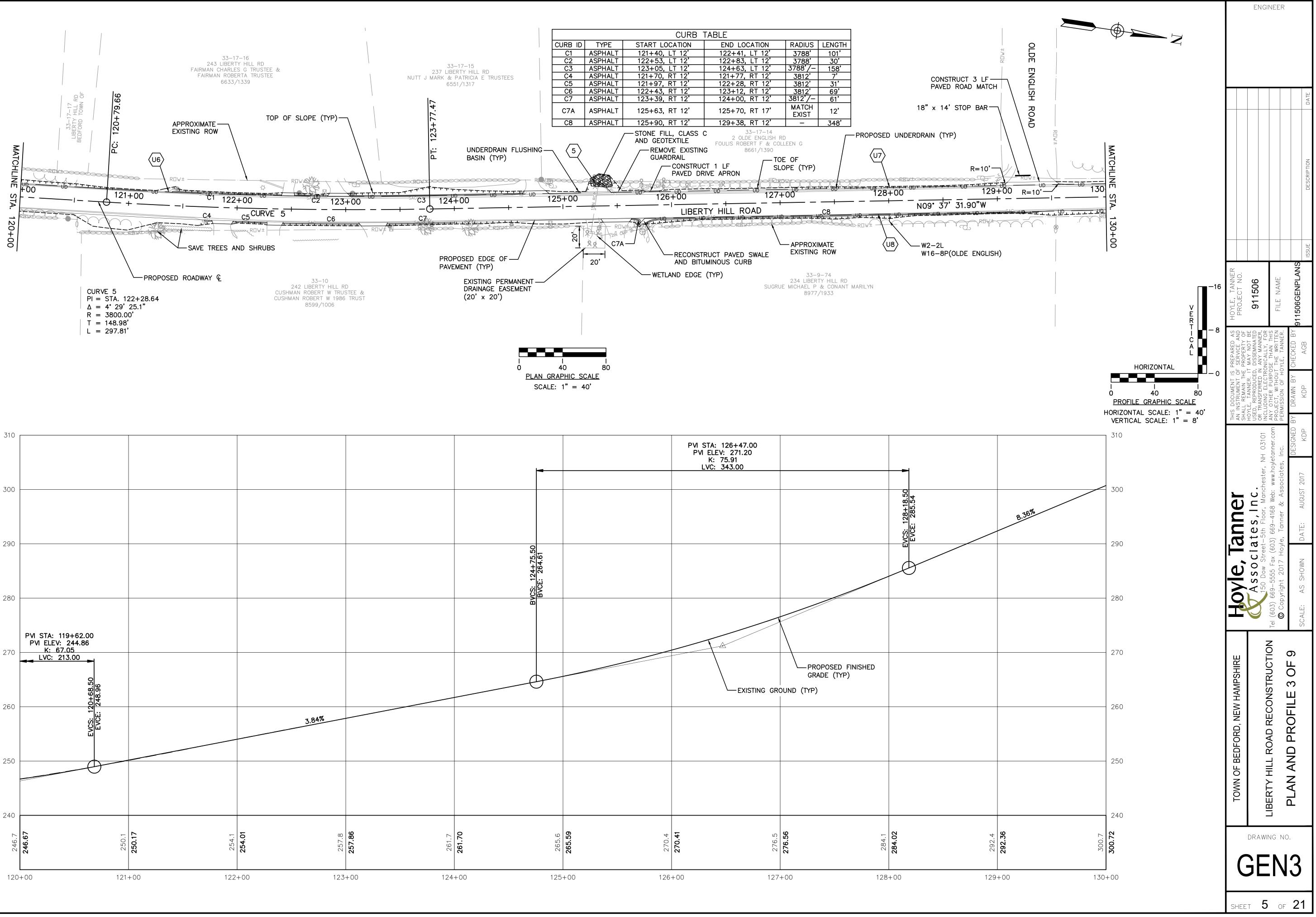
TOWN OF BEDFORD, NEW HAMPSHIRE HOVIE, TANNEL	Ássociates, Inc. 150 Dow Street-5th Floor, Manchester, NH 03101	LIBERTY MILL RUAU RECUNSTRUCTION Tel (603) 669-5555 Fax (603) 669-4168 Web: www.hoyletanner.com		AU ULOWIN DALE.
THIS DOCUMENT IS PREPARED AS AN INSTRUMENT OF SERVICE AND SHALL REMAIN THE PROPERTY OF		<pre>/.hoyletanner.com ANY OTHER PURPOSE THAN THIS PROJECT, WITHOUT THE WRITTEN ates, Inc. PERMISSION OF HOYLE, TANNER.</pre>	DESIGNED BY DRAWN BY CHE	KDP KDP AGB
S HOYLE, TANNER PROJECT NO.	911506 911506	S FILE NAME	911506NOTE_GEN	
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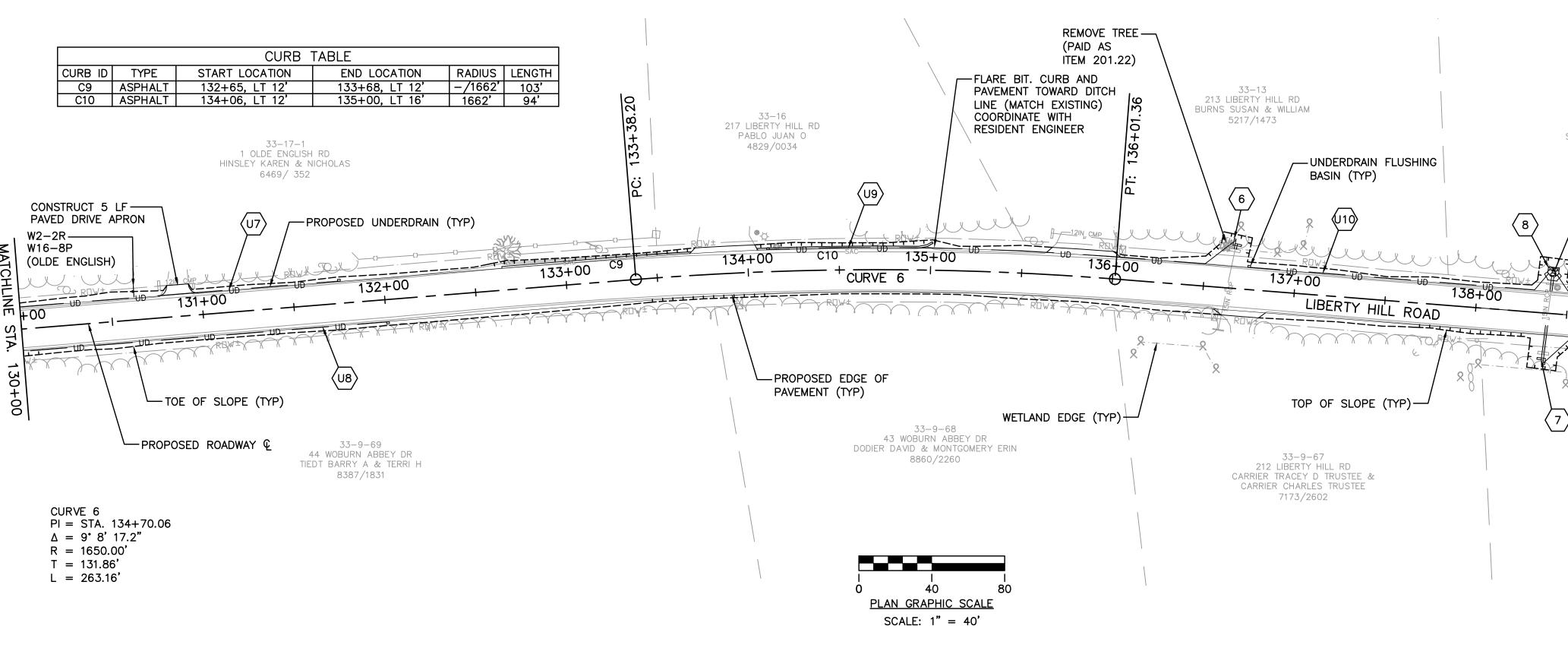


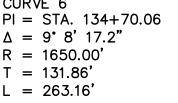


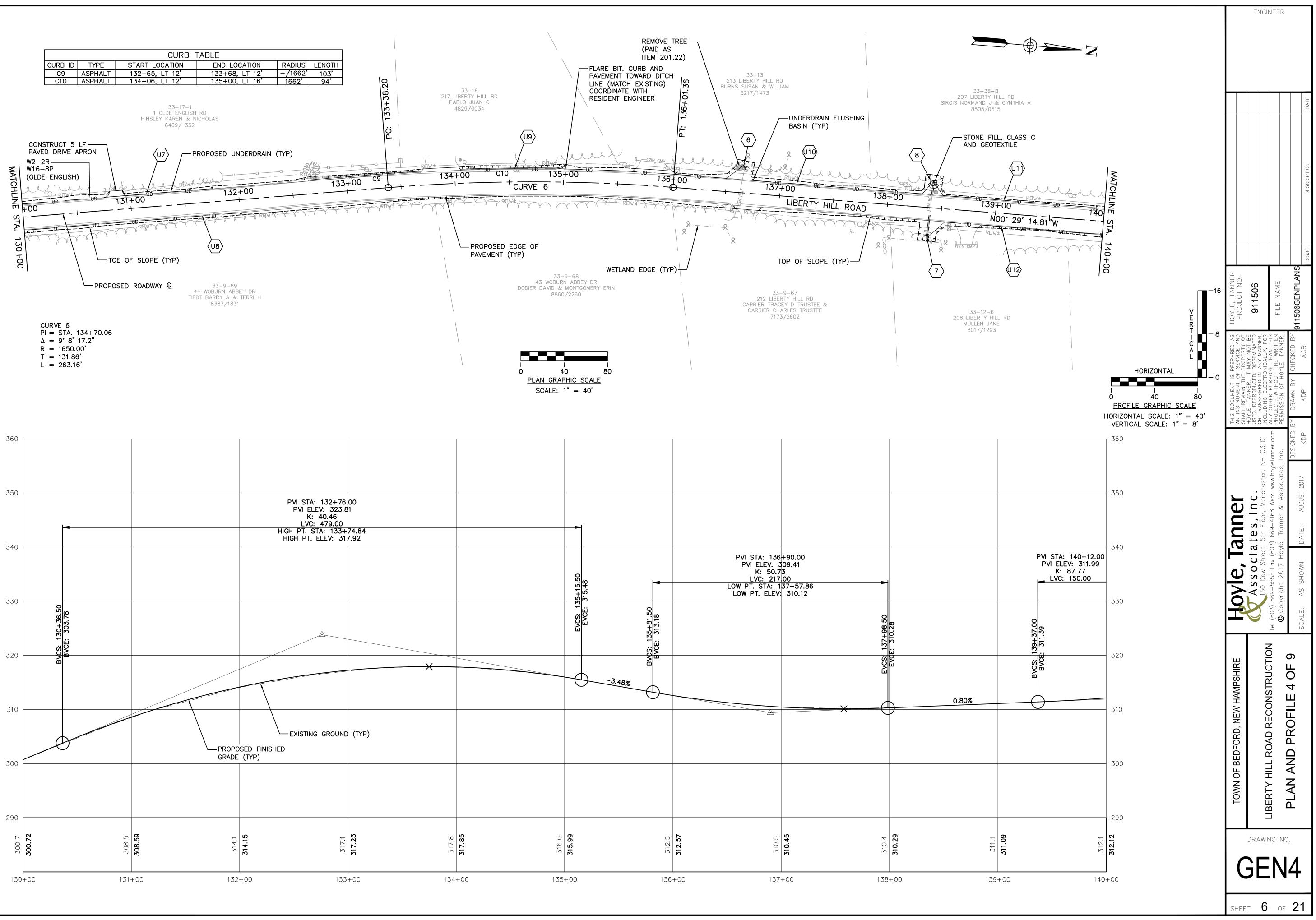


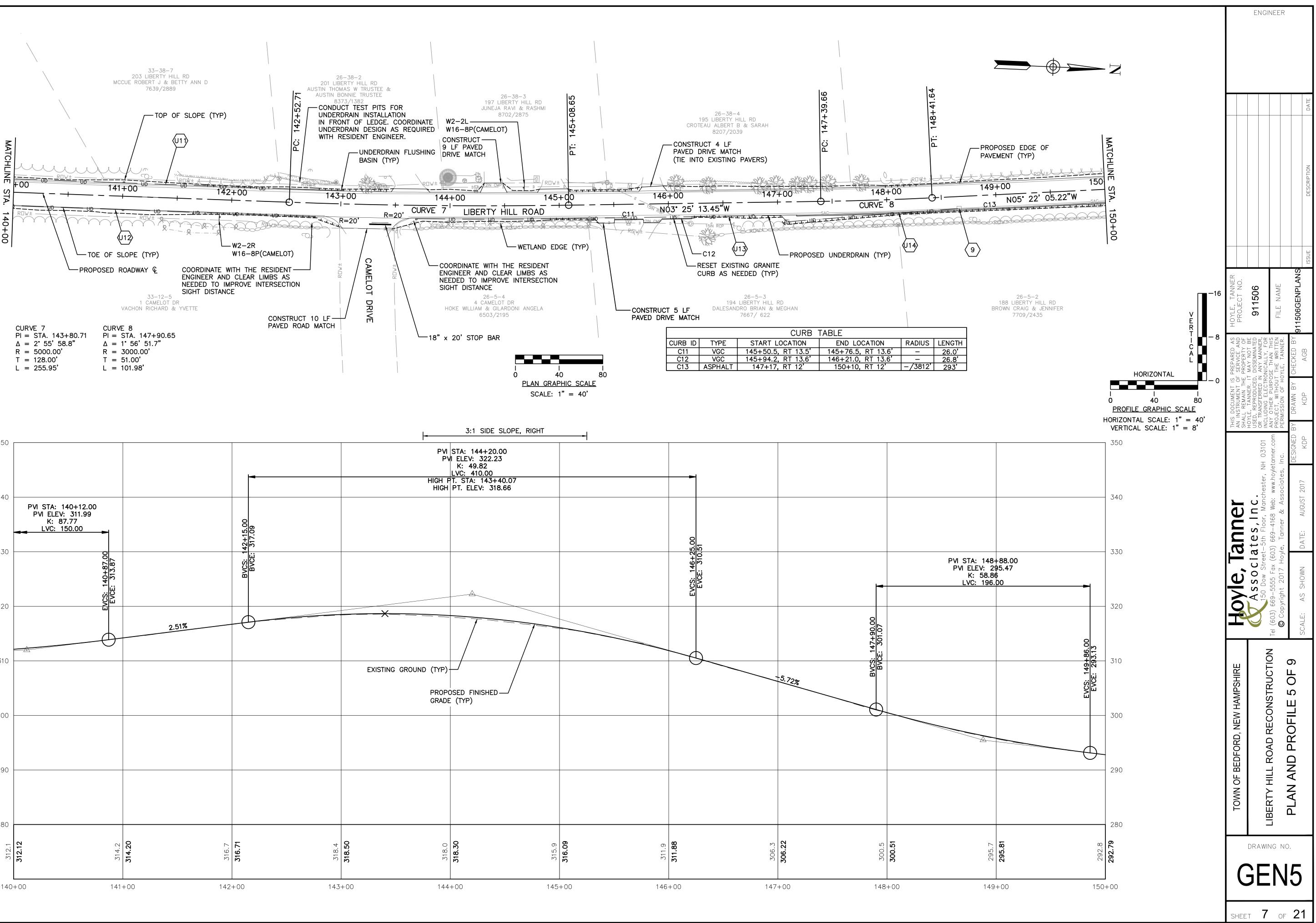


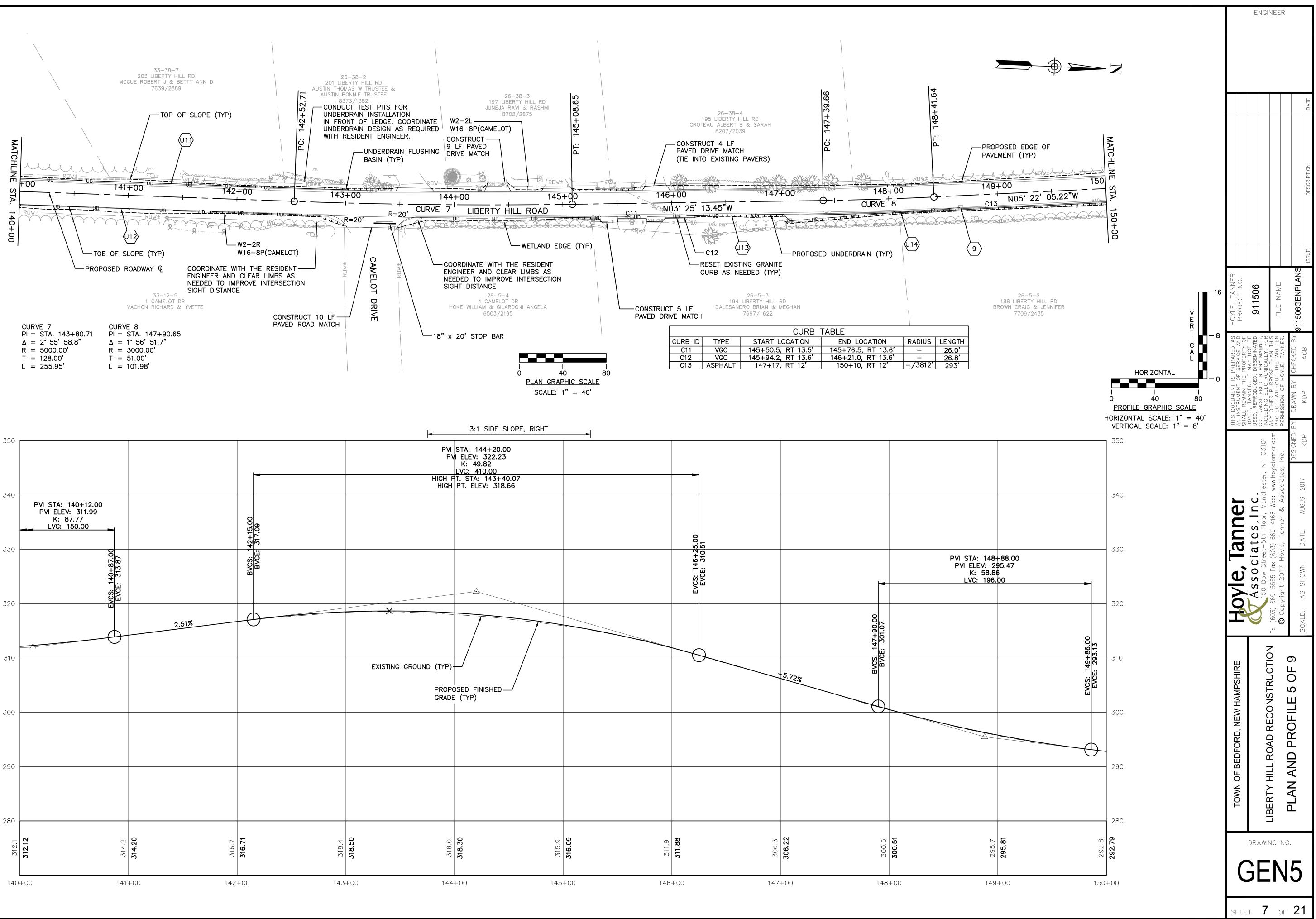


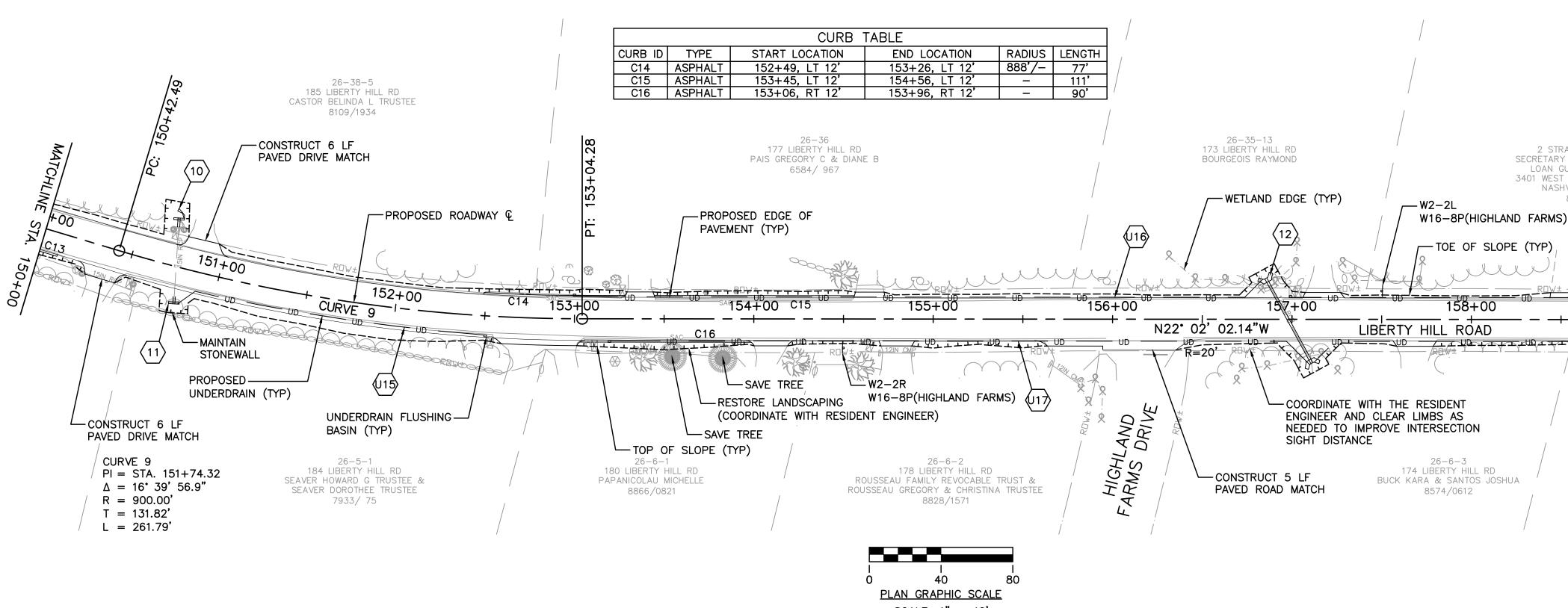


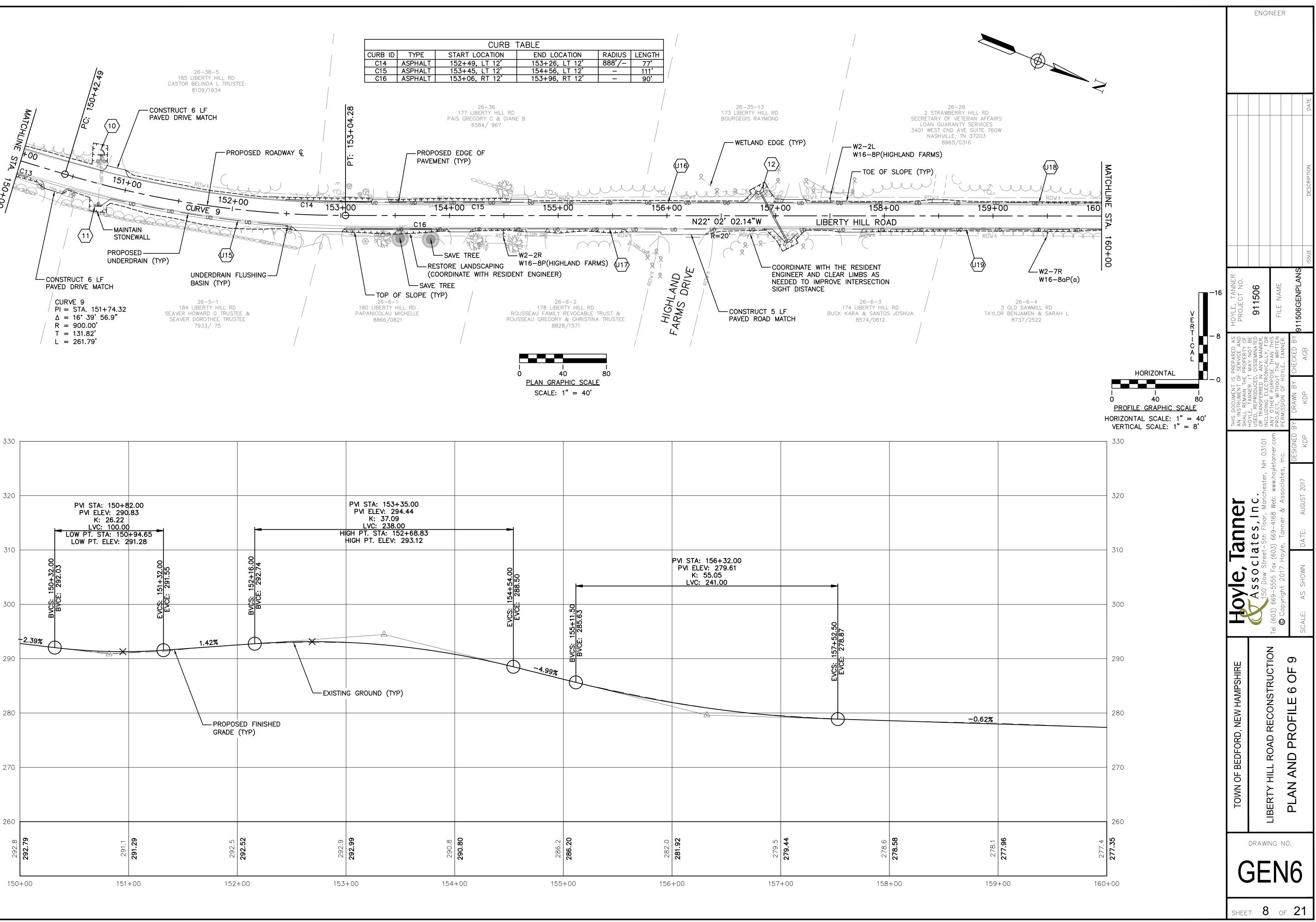


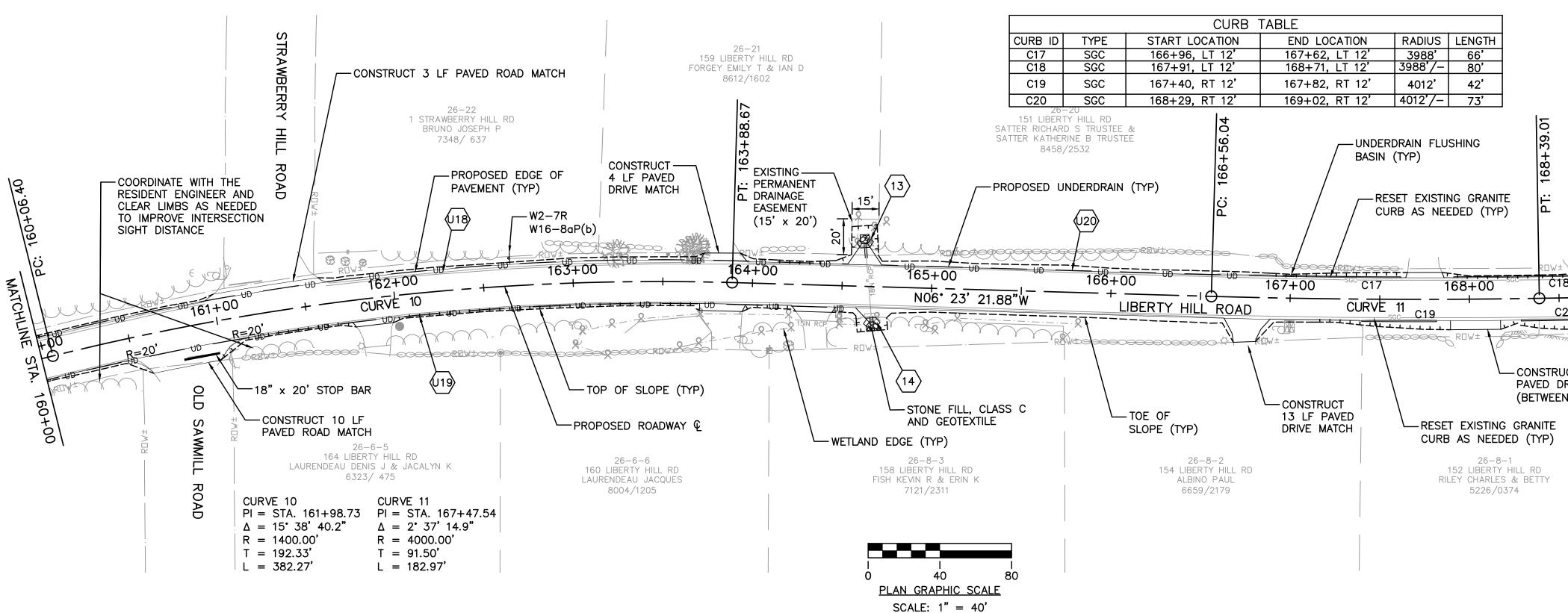


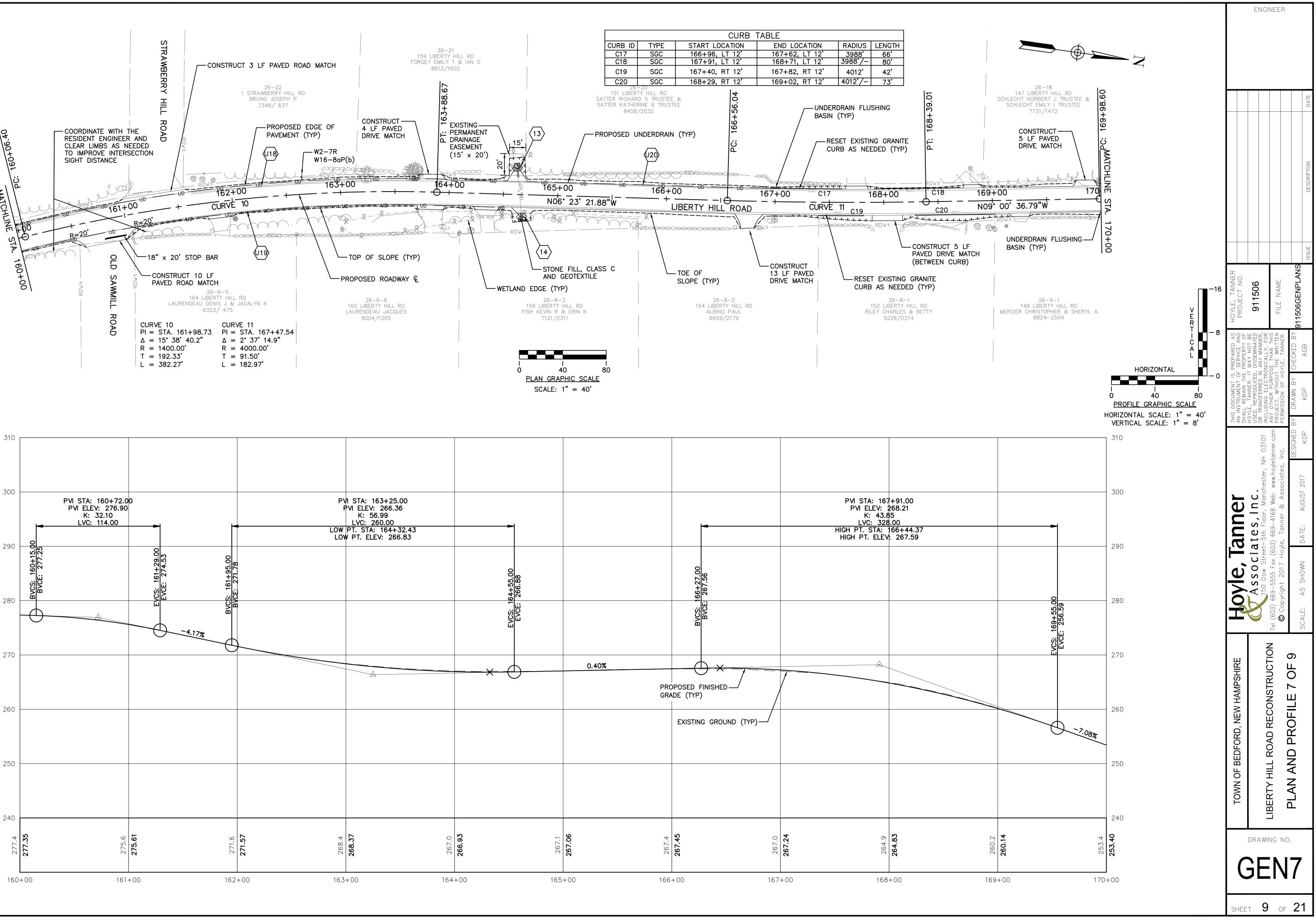


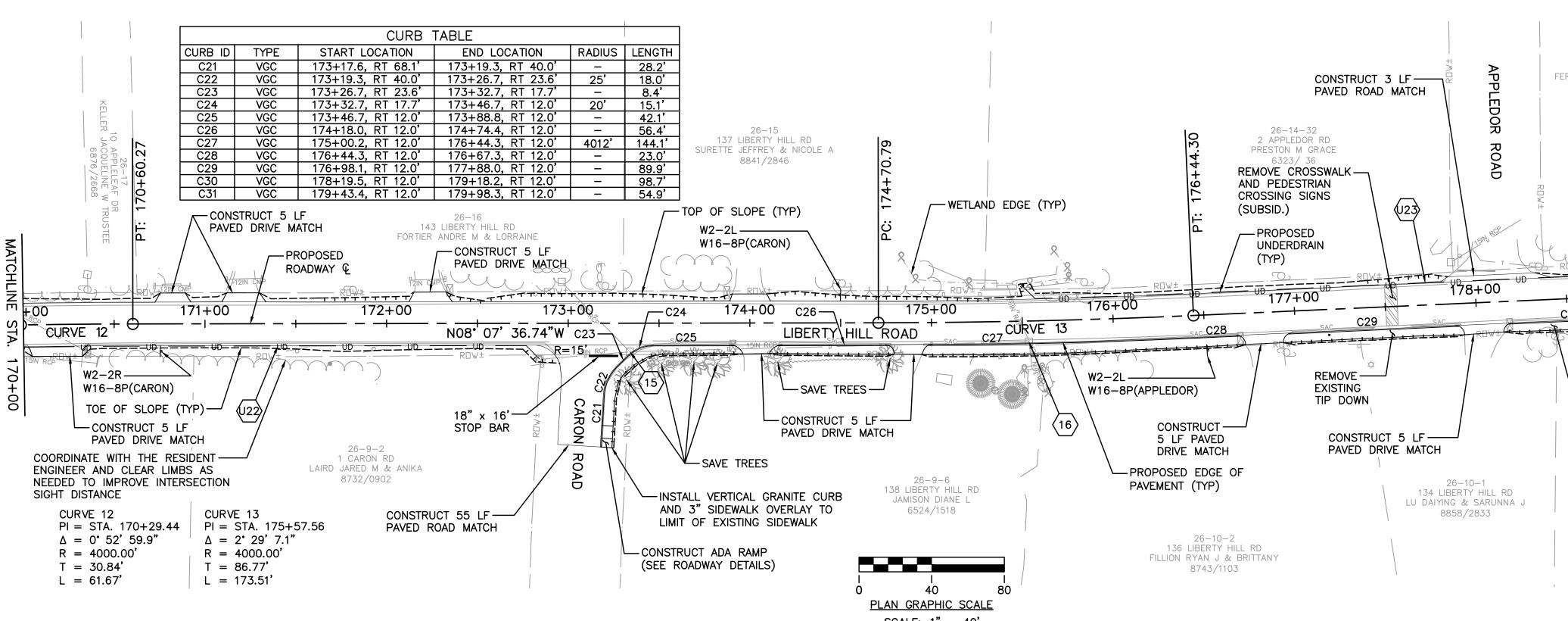


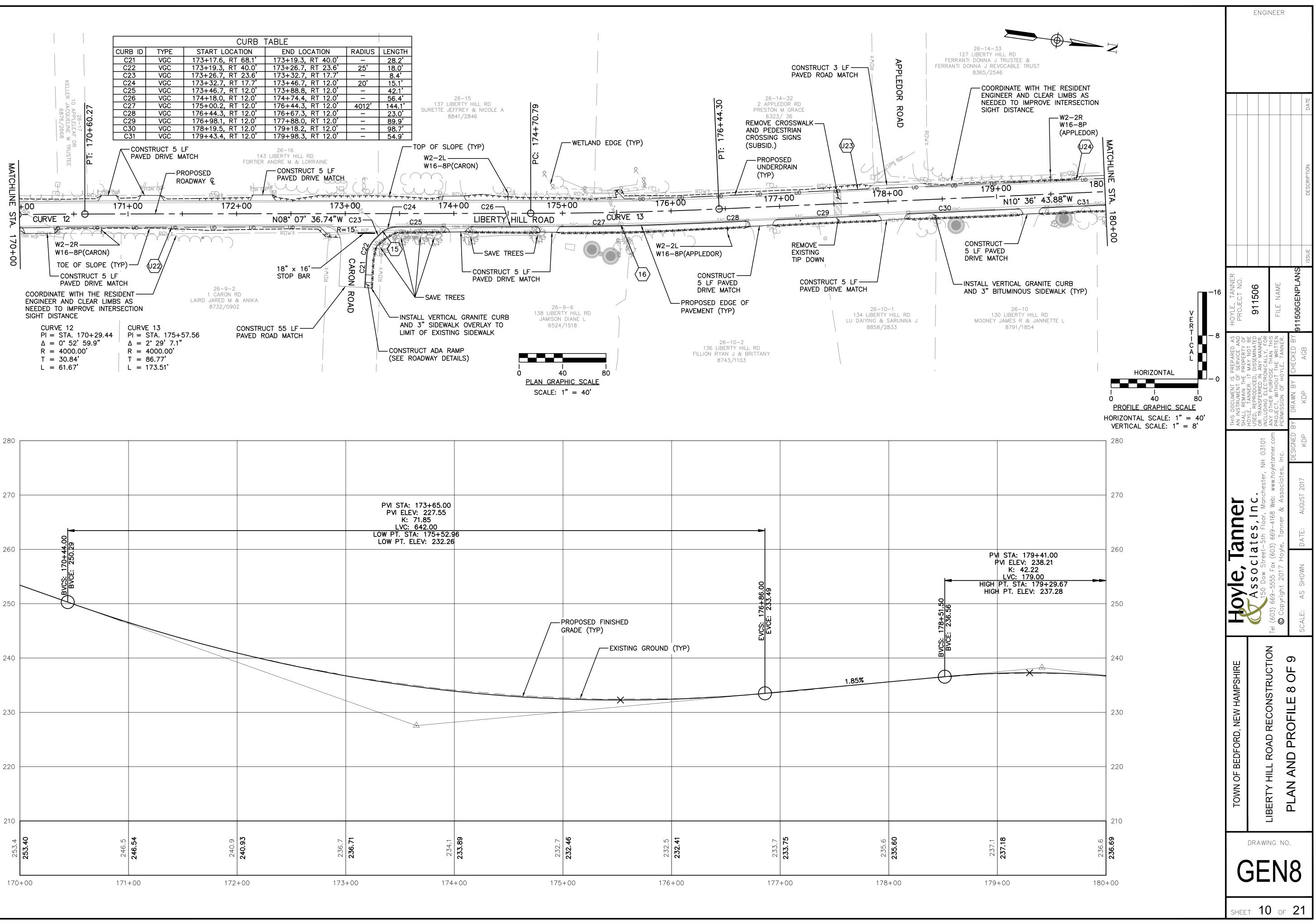


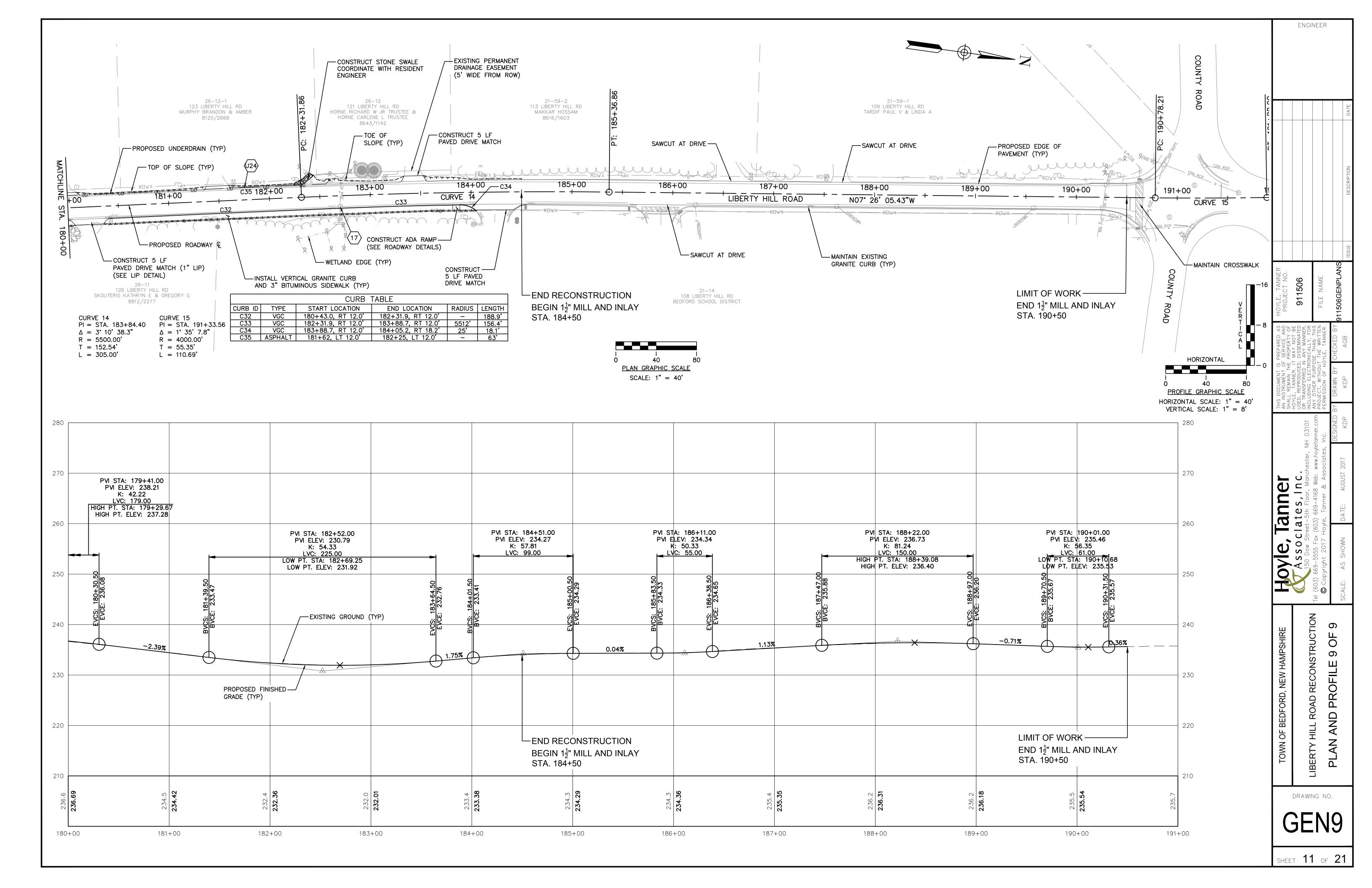












STA. 112+98.70, LT. 43.60' TO STA. 112+83.50, LT. 41.80' CONST. 16 LF x 15" RCP CONST. PC-4 HEADWALL @ +98.70, LT. 43.60' 15" OUTLET ELEV. = 240.60 CONN. TO 15" RCP (SUBSID.) 15" INVERT ELEV. = 240.70 $\langle 2 \rangle$ STA. 114+27.30, RT. 21.30' TO STA. 114+44.10, LT. 16.60' REMOVE 40 LF X 12" RCP (SUBSID.) REMOVE HEADWALL @ +27.30, RT. 21.30' (SUBSID.) REMOVE HEADWALL @ +44.10, LT. 16.60' (SUBSID.) CONST. 41 LF X 15" RCP CONST. PC-4 HEADWALL @ +27.30, RT. 21.30' 15" OUTLET ELEV. = 237.19 CONST. PC-4 HEADWALL @ +44.10, LT. 16.60' 15" INLET ELEV. = MATCH EXISTING (FIELD VERIFY) CONST. STONE PROTECTION @ INLET (6' x 3.5' PAD) $\langle 3 \rangle$ STA. 116+19.10, RT. 44.00' TO STA. 116+77.20, RT. 34.90' REMOVE 60 LF X 15" CMP (SUBSID.) CONST. 60 LF X 15" RCP CONST. PC-4 HEADWALL @ +19.10, RT. 44.00' 15" OUTLET ELEV. = 237.19 CONST. PC-4 HEADWALL @ +77.20, RT. 34.90' 15" INLET ELEV. = 237.50 FIELD VERIFY INVERTS WITH RESIDENT ENGINEER DURING CONSTRUCTION $\langle 4 \rangle$ STA. 118+51.20, LT. 3.30' TO STA. 118+62.85, LT. 19.55' CONST. 20 LF X 15" RCP CONN. TO 15" RCP (SUBSID.) 15" INVERT ELEV. = 240.60 CONST. PC-8 HEADWALL @ +62.85, LT. 19.55' 6" INVERT ELEV. = 240.8015" INLET ELEV. = 240.80 $\langle 5 \rangle$ STA. 125+32.90, LT. 18.90' TO STA. 125+33.30, LT. 20.90' REMOVE HEADWALL @ +33.30, LT. 20.90' (SUBSID.) CONST. 3 LF X 15" RCP CONN. TO 15" RCP (SUBSID.) 15" INVERT ELEV. = 261.80 CONST. PC-4L HEADWALL (NON-TRAD. SIZE) @ +33.30, LT. 20.90' 6" INVERT ELEV. = 262.5015" INLET ELEV. = 261.85 CONST. STONE PROTECTION @ INLET (MATCH EXISTING LIMITS) MAINTAIN ROADWAY DITCH LINE FLOW TO CULVERT STA. 136+65.25, LT. 21.60' TO STA. 136+66.20 LT. 24.60' $\langle 6 \rangle$ REMOVE HEADWALL @ +66.20, LT. 24.60' (SUBSID.) CONST. 3 LF X 15" RCP CONN. TO 15" RCP (SUBSID.) 15" INVERT ELEV. = 306.40 CONST. PC-4L HEADWALL @ +66.20, LT. 24.60' 6" INVERT ELEV. = 306.50 15" INLET ELEV. = 306.50 STA. 138+38.60, RT. 25.75' TO STA. 138+39.50, RT. 6.70' REMOVE HEADWALL @ +38.60, RT. 25.75' (SUBSID.) REMOVE 16 LF X 15" RCP (SUBSID.) CONST. 19 LF X 15" RCP CONN. TO 15" RCP (SUBSID.) 15" INVERT ELEV. = 306.40 CONST. PC-8 HEADWALL @ +38.60, RT. 25.75' 6" INVERT ELEV. = 306.30 15" OUTLET ELEV. = 306.30 $\langle 8 \rangle$ STA. 138+40.40, LT. 12.40' TO STA. 138+40.75, LT. 20.40' REMOVE HEADWALL @ +40.75, LT. 20.40' (SUBSID.) REMOVE 4 LF X 15" RCP (SUBSID.) CONST. 8 LF X 15" RCP CONN. TO 15" RCP (SUBSID.) 15" INVERT ELEV. = 307.60 CONST. PC-8 HEADWALL @ +40.75, LT. 20.40' 6" INVERT ELEV. (S) = 307.726" INVERT ELEV. (N) = 307.7215" INLET ELEV. = 307.72CONST. STONE PROTECTION @ INLET (6' X 5' PAD)

 $\langle U1 \rangle$ STA. 103+ STA. 148+65.85, RT. 11.00' ADJUST CATCH BASIN CONST. 305 CONST. POLYETHYLENE LINER CONN. TO 6" INV $\langle 10 \rangle$ STA. 150+70.10, LT. 26.70' TO STA. 150+71.10, LT. 21.80' CONST. FLU REMOVE HEADWALL @ +70.10, LT. 26.70' (SUBSID.) 6" INV CONST. 5 LF X 15" RCP CONN. TO 15" RCP (SUBSID.) $\langle U2 \rangle$ STA. 103+ 15" INVERT ELEV. = 285.70 CONST. 335 CONST. PC-4L HEADWALL @ +70.10, LT. 26.70' CONN. TO 15" OUTLET ELEV. = 285.576" INV CONST. FLL STA. 150+78.65, RT. 16.50' TO STA. 150+79.35, RT. 20.45' 6" INV REMOVE 4 LF x 15" RCP (SUBSID.) REMOVE HEADWALL @ +79.35, RT. 20.45' (SUBSID.) $\langle U3 \rangle$ CONST. 4 LF X 15" RCP STA. 112+ CONN. TO 15" RCP (SUBSID.) CONST. 370 15" INVERT ELEV. = 286.70 CONST. UH-6" OU CONST. PC-4 HEADWALL @ +79.35, RT. 20.45' 6" INVERT ELEV. = 286.80CONST. FLU 15" INLET ELEV. = 286.80 6" INV NOT USED $\langle U4 \rangle$ STA. 156+85.40, LT. 22.80' TO STA. 157+11.20, RT. 24.50' (12) REMOVE 44 LF X 12" RCP (SUBSID.) $\langle U5 \rangle$ STA. 116+ REMOVE HEADWALL @ +85.40, LT. 22.80' (SUBSID.) REMOVE HEADWALL @ +11.20, RT. 24.50' (SUBSID.) CONST. 130 CONST. 54 LF X 15" RCP CONST. UH-6" OU CONST. PC-8 HEADWALL @ +85.40, LT. 22.80' 6" INVERT ELEV. (S) = 274.16CONST. FLU 15" OUTLET ELEV. = 274.16 6" INV CONST. PC-8 HEADWALL @ +11.20, RT. 24.50' 6" INVERT ELEV. (S) = 275.64 $\langle 06 \rangle$ STA. 118+ 6" INVERT ELEV. (N) = 275.64REMOVE E 15" INLET ELEV. = 275.64 CONST. 33 CONN. TO STA. 164+62.20, LT. 23.85' TO STA. 164+63.10, LT. 15.90' (SEE REMOVE HEADWALL @ +62.20, LT. 23.85' (SUBSID.) UND. INV REMOVE 8 LF X 18" RCP (SUBSID.) CONST. FL CONST. 8 LF X 18" RCP 6" IN CONN. TO 18" RCP (SUBSID.) 18" INVERT ELEV. = 261.60 STA. 122+ CONST. PC-8 HEADWALL @ +62.20, LT. 23.85' CONST. 31 6" INVERT ELEV. (S) = 261.50CONN. TO 6" INVERT ELEV. (N) = 261.50CONST. FL 18" OUTLET ELEV. = 261.50 6" IN CONST. STONE PROTECTION @ OUTLET $(5' \times 5' \text{ PAD})$ $\langle U7 \rangle$ STA. 125+ CONST. 31 STA. 164+66.75, RT. 16.70' TO STA. 164+67.10, RT. 19.70' $\langle 14 \rangle$ CONN. TO REMOVE HEADWALL @ +67.10, RT. 19.70' (SUBSID.) (SEE CONST. 3 LF X 18" RCP CONST. FL CONN. TO 18" RCP (SUBSID.) 6" IN 18" INVERT ELEV. = 262.50 CONST. PC-8 HEADWALL @ +67.10, RT. 19.70' STA. 128+ 6" INVERT ELEV. = 262.60CONST. 32 18" INLET ELEV. = 262.60 CONN. TO CONST. STONE PROTECTION @ INLET (6.5' x 5' PAD) CONST. FL 6" IN STA. 173+33.90, RT. 15.70' ADJUST CATCH BASIN $\langle 08 \rangle$ STA. 125+ CONST. POLYETHYLENE LINER CONST. 33 CONST. UH (16)STA. 175+53.40, RT. 11.30' 6" Ol ADJUST CATCH BASIN CONST. FL CONST. POLYETHYLENE LINER 6" IN (17)STA. 129+ STA. 182+69.85, RT. 10.90' ADJUST CATCH BASIN CONST. 30 CONST. POLYETHYLENE LINER CONN. TO CONST. FL 6" IN $\langle U9 \rangle$ STA. 136+

CONST. 31 CONN. TO (SEE CONST. FLU 6" INV

	ENGINEER
57.18, LT. 16.93' TO STA. 106+60.00, LT. 12.25'	
05 LF x 6" UND. EXIST. CB @ +57.18, LT. 16.93' (SUBSID.)	
V. IN = 238.00 USHING BASIN @ +60.00, LT. 12.25' VERT ELEV. = 255.97	DATE
24.90, RT. 25.70' TO STA. 106+60.00, RT. 12.25' 55 LF × 6" UND. EXIST. CB @ +24.90, RT. 25.70' (SUBSID.)	
V. IN = 238.10 USHING BASIN @ +60.00, RT. 12.25' VERT ELEV. = 255.97	DESCRIPTION
15.00, LT. 25.00' TO STA. 108+50.00, LT. 12.25' '0 LF × 6" UND.	
H-2 HEADWALL @ +15.00, LT. 25.00' JTLET ELEV. = 241.24	
USHING BASIN @ +50.00, LT. 12.25' VERT ELEV. = 256.38	DRN NER DRN ISSI
	HOYLE, TANNER PROJECT NO. 911506NOTE_DR
95.00 RT. 20.00' TO STA. 118+25.00, RT. 12.25' 30 LF x 6" UND.	6
1—2 HEADWALL @ +95.00, RT. 20.00' JTLET ELEV. = 239.00	ARED AS IICE AND ERTY OF NOT BE MANNER, ANNTED MANNER, TANNER, TANNER, AGB
USHING BASIN @ +25.00, RT. 12.25' VERT ELEV. = 239.76	MENT IS PREPARED MENT OF SERVICE IAIN THE PROPERTY NNER. IT MAY NOT RODUCED, DISSEMINA EERED IN ANY MANI ELECTRONICALLY, R PURPOSE THAN RIHOUT THE WRIT WI BY CHECKED VN BY CHECKED
+62.85, LT. 19.55' TO STA. 122+00.00, LT. 12.25' EXIST. UND. (SUBSID.)	DRAV KEPI C REW C REW C REW REPI OTHEI C C KI KI
35 LF x 6"UND. HEADWALL @ +62.85, LT. 19.55' (SUBSID.) DRAINAGE NOTE 4 FOR INVERT) @ 119+00.00, LT. 12.25' = 241.00	
© TT9+00.00, LT. T2.23 = 241.00 LUSHING BASIN © +00.00, LT. 12.25' NVERT ELEV. = 249.77	s,
+00.00, LT. 12.25' TO STA. 125+15.00 LT. 12.25' 15 LF X 6" UND.	sb: JST
) FB @ +00.00, LT. 12.25' (SUBSID.) LUSHING BASIN @ +15.00, LT. 12.25' NVERT ELEV. = 262.00	L DD t e s, l 5th Floor, 669–4168 Tanner ATE:
+33.30, LT. 20.90' TO STA. 128+50.00, LT. 12.25'	SSOCIAT SSOCIAT Dow Street- 5555 Fax (603) t 2017 Hoyle, SHOWN D
17 LF x 6" UND. HEADWALL @ +33.30, LT. 20.90' (SUBSID.)	Ass as sho as sho
DRAINAGE NOTE 5 FOR INVERT) LUSHING BASIN @ +50.00, LT. 12.25' NVERT ELEV. = 283.94	(603) 66 © Copyr
+50.00, LT. 12.25' TO STA. 131+75.00, LT. 12.25' 25 LF X 6" UND.	
FB @ +50.00, LT. 12.25' (SUBSID.) LUSHING BASIN @ +75.00, LT. 12.25' NVERT ELEV. = 308.75	TOWN OF BEDFORD, NEW HAMPSHIRE BERTY HILL ROAD RECONSTRUCTION DRAINAGE NOTES 1 OF 2
+67.90, RT. 19.30' TO STA. 129+00.00, RT. 12.25'	W HAM CONST
33 LF x 6"UND. H—2 HEADWALL @ +67.90, RT. 19.30'	D REC
DUTLET ELEV. = 264.90 LUSHING BASIN @ +00.00, RT. 12.25' NVERT ELEV. = 288.12	TOWN OF BEDFORD, NEW HAMPSHIRE ERTY HILL ROAD RECONSTRUCT DRAINAGE NOTES 1 OF 2
+00.00, RT. 12.25' TO STA. 132+00.00, RT. 12.25' 00 LF × 6" UND.	TOWN OF I ERTY HIL DRAIN/
) FB @ 129+00.00, RT. 12.25' (SUBSID.) LUSHING BASIN @ 132+00.00, RT. 12.25' NVERT ELEV. = 309.91	LIBER DF
+66.20, LT. 24.60' TO STA. 134+10.00, LT. 12.25'	DRAWING NO.
17 LF x 6"UND. HEADWALL @ +66.20, LT. 24.60' (SUBSID.) DRAINGE NOTE 6 FOR INVERT)	DRN1
LUSHING BASIN @ +10.00, LT. 12.25' NVERT ELEV. = 313.53	10 01
	SHEET 12 OF 21

(U10) STA. 138+38.60, RT. 25.75' TO STA. 136+75.00, LT. 12.25' CONST. 166 LF x 6" UND. CONN. TO HEADWALL @ +38.60, RT. 25.75' (SUBSID.) (SEE DRAINGE NOTE 8 FOR INVERT) UND. INV. @ 138+00.00, LT. 12.25' = 306.55 CONST. FLUSHING BASIN @ +75.00, LT. 12.25' 6" INVERT ELEV. = 306.56 $\langle U11 \rangle$ STA. 138+40.75, LT. 20.40' TO STA. 141+00.00, LT. 12.25' CONST. 260 LF x 6" UND. CONN. TO HEADWALL @ +40.75, LT. 20.40' (SUBSID.) (SEE DRAINGE NOTE 8 FOR INVERT) UND. INV. @ 139+00.00, LT. 12.25' = 308.22 UND. INV. @ 140+00.00, LT. 12.25' = 308.72 CONST. FLUSHING BASIN @ +00.00, LT. 12.25' 6" INVERT ELEV. = 309.96 STA. 141+00.00, LT. 12.25' TO STA. 143+00.00, LT. 12.25' CONST. 200 LF x 6" UND. CONN. TO FB @ 141+00.00, LT. 12.25' (SUBSID.) CONST. FLUSHING BASIN @ 143+00.00, LT. 12.25' 6" INVERT ELEV. = 314.26 CONDUCT TEST PITS FOR UNDERDRAIN INSTALLATION IN FRONT OF LEDGE STA. 138+38.60, RT. 25.75' TO STA. 141+00.00, RT. 12.25' (∪12) CONST. 262 LF x 6" UND. CONN. TO HEADWALL @ +38.60, RT. 25.75' (SUBSID.) (SEE DRAINAGE NOTE 7 FOR INVERT) CONST. FLUSHING BASIN @ +00.00, RT. 12.25' 6" INVERT ELEV. = 309.96 STA. 141+00.00, RT. 12.25' TO STA. 142+75.00, RT. 12.25' CONST. 175 LF x 6" UND. CONN. TO FB @ +00.00, RT. 12.25' (SUBSID.) CONST. FLUSHING BASIN @ +75.00, RT. 12.25 6" INVERT ELEV. = 313.99 (∪13) STA. 147+08.25, RT. 18.20' TO STA. 143+70.00, RT. 12.25' CONST. 340 LF x 6" UND. CONN. TO EXIST. CB @ +08.25, RT. 18.20' (SUBSID.) 6" INV. IN = MATCH EXISTING 12" INV. OUT (FIELD VERIFY) CONST. FLUSHING BASIN @ +70.00, RT. 12.25' 6" INVERT ELEV. = 314.33 CONTRACTOR TO CONFIRM UNDERDRAIN DEPTH WITH RESIDENT ENGINEER TO AVOID CONFLICTS AND PROVIDE POSITIVE FLOW (∪14) STA. 148+65.85, RT. 11.00' TO STA. 147+08.25, RT. 18.20' REMOVE 156 LF x 12" RCP (SUBSID.) CONST. 156 LF x 12" POLYPROPYLENE PIPE (PERF.) CONN. TO EXIST. CB @ +65.85, RT. 11.00' (SUBSID.) 12" INV. IN = MATCH EXISTING CONN. TO EXIST. CB @ +08.25, RT. 18.20' (SUBSID.) 12" INV. OUT = MATCH EXISTING SEE CARRYING PIPE DETAIL (∪15) STA. 150+79.35, RT. 20.45' TO STA. 152+50.00 RT. 12.25' CONST. 171 LF x 6" UND. CONN. TO HEADWALL @ +79.35, RT. 20.45' (SUBSID.) (SEE DRAINAGE NOTE 11 FOR INVERT) CONST. FLUSHING BASIN @ +50.00, RT. 12.25' 6" INVERT ELEV. = 288.83(∪16) STA. 156+85.40, LT. 22.80' TO STA. 153+00.00, LT. 12.25' CONST. 386 LF x 6" UND. CONN. TO HEADWALL @ +85.40, LT. 22.80' (SUBSID.) (SEE DRAINAGE NOTE 12 FOR INVERT) CONST. FLUSHING BASIN @ +00.00, LT. 12.25' 6" INVERT. ELEV. = 288.75(∪17) STA. 157+11.20, RT. 24.50' TO STA. 153+20.00, RT. 12.25' CONST. 392 LF x 6" UND. CONN. TO HEADWALL @ +11.20, RT. 24.50' (SUBSID.) (SEE DRAINAGE NOTE 12 FOR INVERT) CONST. FLUSHING BASIN @ +20.00, RT. 12.25' 6" INVERT ELEV. = 288.53

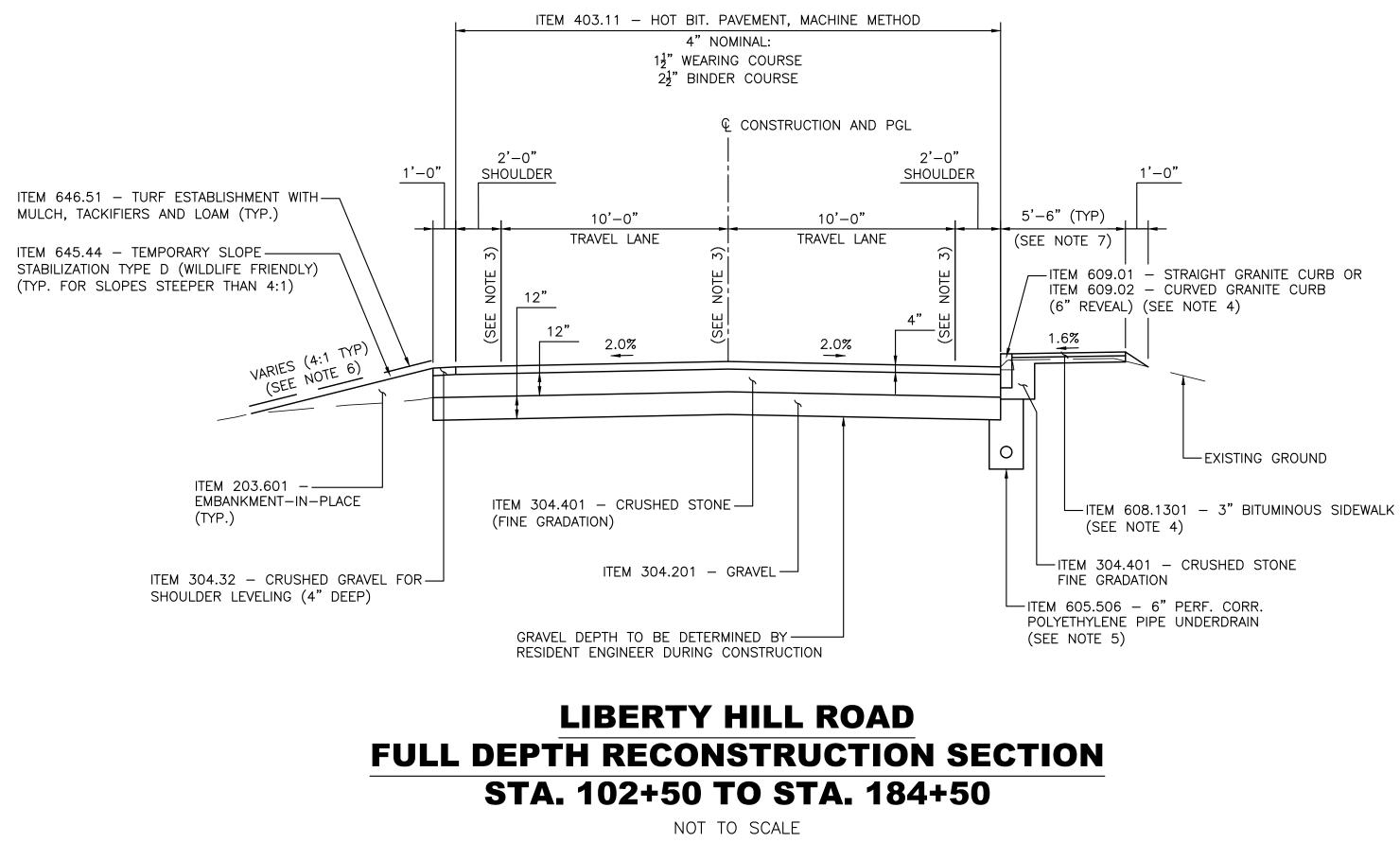
(U18) STA. 160+00.00, LT. 12.25' TO STA. 157+00.00, LT. 12.25' CONST. 300 LF x 6" UND. CONST. FLUSHING BASIN @ 160+00.00, LT. 12.25' 6" INVERT ELEV. = 273.11CONST. FLUSHING BASIN @ 157+00.00, LT. 12.25' 6" INVERT ELEV. = 275.20STA. 164+62.20, LT. 23.85' TO STA. 160+00.00, LT. 12.25' CONST. 458 LF x 6" UND. CONN. TO FB @ +00.00, LT. 12.25' (SUBSID.) CONN. TO HEADWALL @ +62.20, LT. 23.85' (SUBSID.) (SEE DRAINAGE NOTE 13 FOR INVERT) STA. 160+00.00, RT. 12.25' TO STA. 157+11.20, RT. 24.50' (U19) CONST. 289 LF x 6" UND. CONST. FLUSHING BASIN @ +00.00, RT. 12.25' 6" INVERT ELEV. = 273.11CONN. TO HEADWALL @ +11.20, RT. 24.50' (SUBSID.) (SEE DRAINAGE NOTE 12 FOR INVERT) STA. 164+67.10, RT. 19.70' TO STA. 160+00.00, RT. 12.25' CONST. 468 LF x 6" UND. CONN. TO HEADWALL @ +67.10, RT. 19.70' (SUBSID.) (SEE DRAINAGE NOTE 14 FOR INVERT) UND. INV. @ 163+00.00, RT. 12.25' = 263.63 CONN. TO FB @ +00.00, RT. 12.25' (SUBSID.) STA. 164+62.20, LT. 23.85' TO STA. 167+00.00, LT. 12.25' (U20) CONST. 234 LF x 6" UND. CONN. TO HEADWALL @ +62.20, LT. 23.85' (SUBSID.) (SEE DRAINAGE NOTE 13 FOR INVERT) CONST. FLUSHING BASIN @ +00.00, LT. 12.25' 6" INVERT ELEV. = 263.00(U2) NOT USED STA. 172+84.20, RT. 19.60' TO STA. 170+00.00, RT. 12.25' (U22) CONST. 285 LF x 6" UND. CONN. TO EXIST. CB @ +84.20, RT. 19.60' (SUBSID.) 6" INV. IN = MATCH EXISTING CB INV. OUT ELEV. (FIELD VERIFY) CONST. FLUSHING BASIN @ +00.00, RT. 12.25' 6" INVERT ELEV. = 249.16CONTRACTOR TO CONFIRM UNDERDRAIN DEPTH WITH RESIDENT ENGINEER TO AVOID CONFLICTS AND PROVIDE POSITIVE FLOW STA. 175+50.00, LT. 19.70' TO STA. 179+25.00, LT. 12.25' $\langle 023 \rangle$ CONST. 395 LF x 6" UND. CONST. UH-2 HEADWALL @ +50.00, LT. 19.70' 6" OUTLET ELEV. = 227.95CONST. FLUSHING BASIN @ +25.00, LT. 12.25' 6" INVERT ELEV. = 233.04(∪24) STA. 182+63.50, LT. 18.90' TO STA. 179+55.00, LT. 12.25' CONST. 310 LF \times 6" UND. CONST. UH-2 HEADWALL @ +63.50, LT. 18.90' 6" OUTLET ELEV. = 227.65CONST. FLUSHING BASIN @ +55.00, LT. 12.25' 6" INVERT ELEV. = 232.96

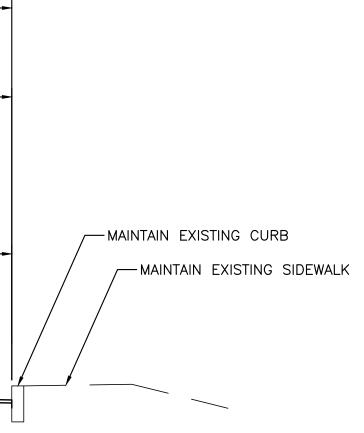
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		ITEM 40	03.11 – HOT	BIT. PA	VEMENT, MACHINE METH	HOD
			1 <u>1</u> "	WEARING	COURSE	
	_	ITEM 4	417. – COLD	PLANIN	G BITUMINOUS SURFACE	ES
				Ę	CONSTRUCTION AND PO	GL
	2'-0' SHOULD					2'-0" SHOULDER
			10'-0"		10'-0"	
	3)	TR,	AVEL LANE	<u>-3)</u>	TRAVEL LANE	3)
EXISTING GROUND	NOTE			NOTE		(SEE NOTE ;
	(SEE	1 <u>1</u> "	2.0%	SEE (2.0%	(SEE

LIBERTY HILL ROAD **MILL AND INLAY SECTION STA. 184+50 TO STA. 190+50**

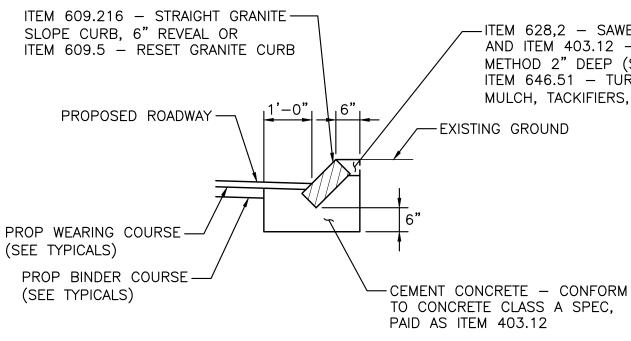
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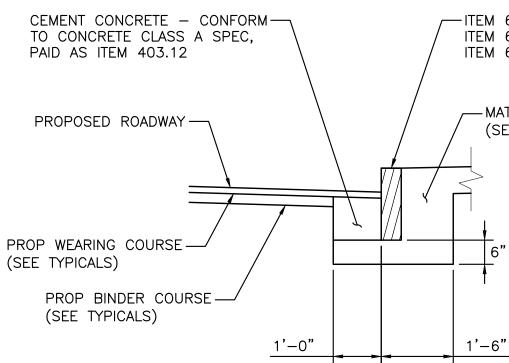




NOTES:

- 1. ITEM 403.6 PAVEMENT JOINT ADHESIVE SHALL BE APPLIED TO ALL LONGITUDINAL JOINTS ON PAVEMENT COURSES.
- 2. ITEM 410.22 ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN BINDER AND WEARING PAVEMENT COURSES.
- 3. ITEM 632.0104 RETROREFLECTIVE PAINT PAVEMENT MARKING, 4" LINE SHALL BE APPLIED ALONG THE & CONSTRUCTION (4" DOUBLE SOLID YELLOW LINE) AND ALONG THE TRAVEL WAY (4" SINGLE SOLID WHITE LINE).
- 4. INSTALL NEW GRANITE CURB, REMOVE EXISTING BITUMINOUS SIDEWALK, SHIM WITH CRUSHED STONE (FINE GRADATION) AND PAVE 3" OF BITUMINOUS SIDEWALK BETWEEN CARON ROAD AND THE SOUTHERN DRIVEWAY OF MCKELVIE SCHOOL (STA. 173+17± TO STA. 184+05±, RT).
- 5. SEE GENERAL PLANS AND DRAINAGE NOTES FOR UNDERDRAIN PLACEMENT AND SEE UNDERDRAIN DETAIL ON SHEET 15 FOR ADDITIONAL INFORMATION.
- 6. THE INTENT OF THE SIDE SLOPES IS TO TIE INTO THE EXISTING SHOULDER BREAK WHEREVER PRACTICAL, OR USE A 4:1 SLOPE. SEE PROFILES FOR LOCATIONS WHERE SIDE SLOPES SHOULD BE STEEPER THAN 4:1 IN ORDER TO AVOID ROW AND/OR WETLAND IMPACTS. CLEARING AND GRUBBING, AS NEEDED, SHALL BE SUBSIDIARY.
- 7. SIDEWALK SHALL BE CONSTRUCTED 5'-6" WIDE BETWEEN CARON ROAD AND THE SOUTHERN DRIVEWAY OF MCKELVIE SCHOOL EXCEPT IN GUARDRAIL AREAS (STA. 175+25± TO STA. 176+00±, RT AND STA. 182+15± TO STA. 182+85±, RT) WHERE PROPOSED BACK OF SIDEWALK SHALL MATCH EXISTING BACK OF SIDEWALK (36" MIN. SIDEWALK WIDTH).





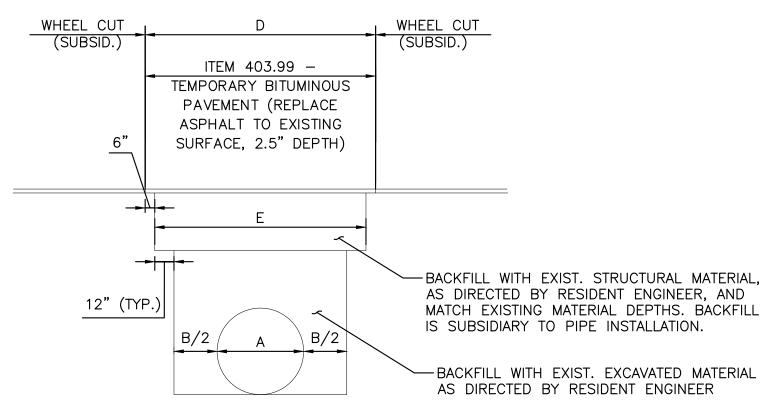
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SHEET 14 OF 21

AND ITEM 403.12 - HOT BIT. PAVE. HAND METHOD 2" DEEP (SIDEWALK AREAS) OR ITEM 646.51 - TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM 4" DEEP (TYP.)

ITEM 609.02 - CURVED GRANITE VERTICAL CURB OR ITEM 609.5 - RESET GRANITE CURB

(SEE TYPICALS)

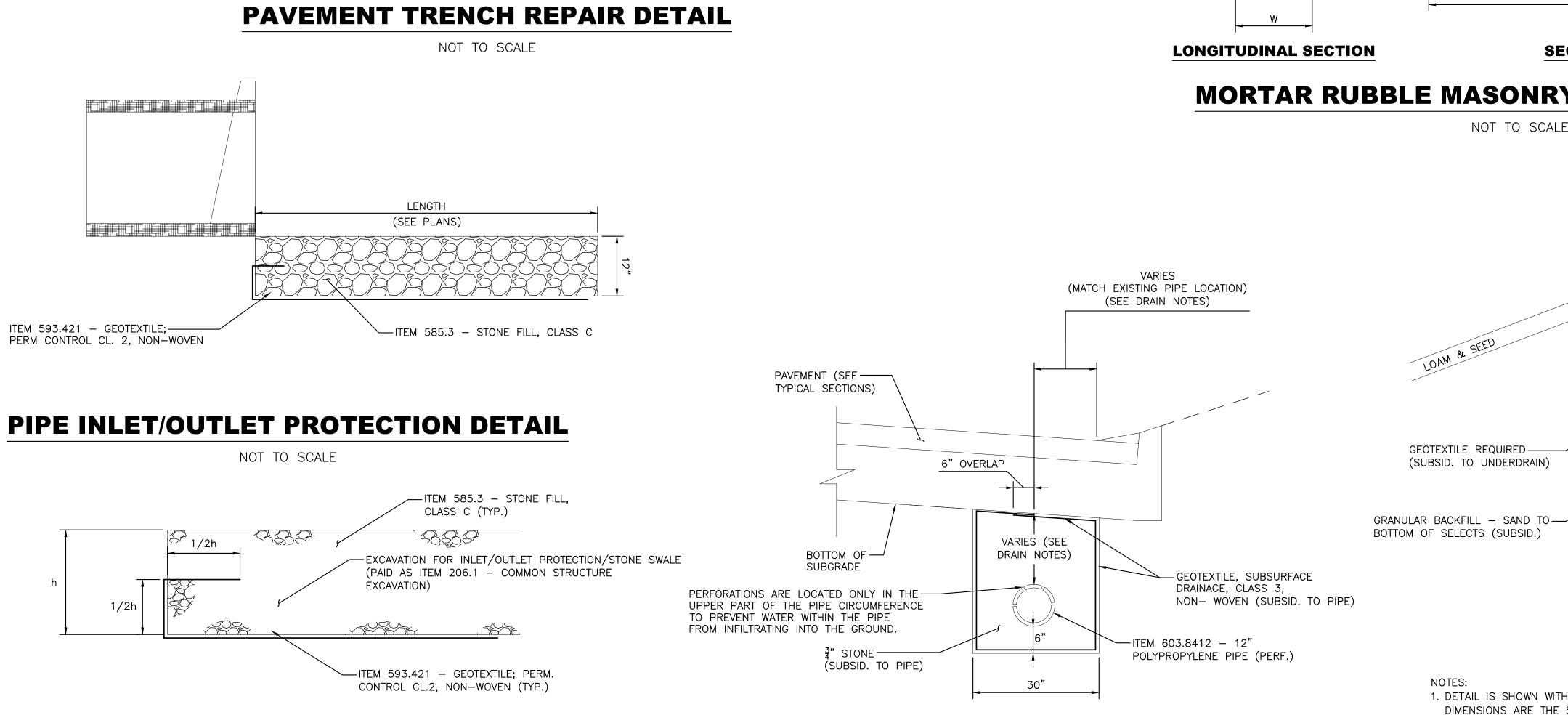


SAMPLE TRENCH DIMENSIONS SEE DRAINAGE NOTES FOR ACTUAL PIPE DIMENSIONS

A PIPE DIA.	B ADDIT. WIDTH	C TRENCH	D CUT	E GRAVEL BOX
		DIT. TRENCH CU		WIDTH
6"	30"	36"	72"	60"
12"	24"	36"	72"	60"
15"	24"	39"	75"	63"
18"	24"	42"	78"	66"
24"	24"	48"	84"	72"
30"	30"	60"	96"	84"
	12" 15" 18" 24"	12" 24" 15" 24" 18" 24" 24" 24"	12" 24" 36" 15" 24" 39" 18" 24" 42" 24" 24" 48"	12" 24" 36" 72" 15" 24" 39" 75" 18" 24" 42" 78" 24" 24" 48" 84"

NOTES:

- 1. SEE NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 206 FOR TRENCH AND ADDITIONAL WIDTHS.
- 2. DIMENSION D IS THE PAY LIMITS FOR ITEM 403.99. COSTS FOR RESTORATION BEYOND THESE LIMITS WILL BE AT THE CONTRACTOR'S EXPENSE.
- 3. AS DIRECTED BY RESIDENT ENGINEER, UNSUITABLE BACKFILL MATERIAL WILL BE REPLACED WITH ITEM 209.1 -GRANULAR BACKFILL. (SUBSID. TO PIPE)



CARRYING PIPE DETAIL

NOT TO SCALE

GEOTEXTILE WRAP DETAIL

NOT TO SCALE



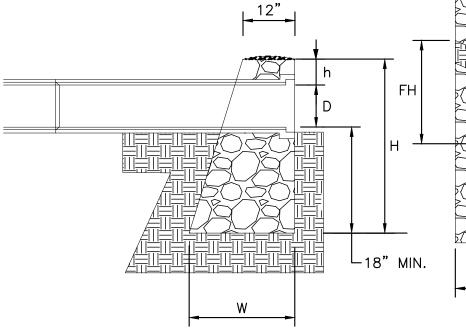
1. DETAIL IS SHOWN WITHOUT CURB. UNDERDRAIN LAYOUT AND DIMENSIONS ARE THE SAME WITH CURB.

6"

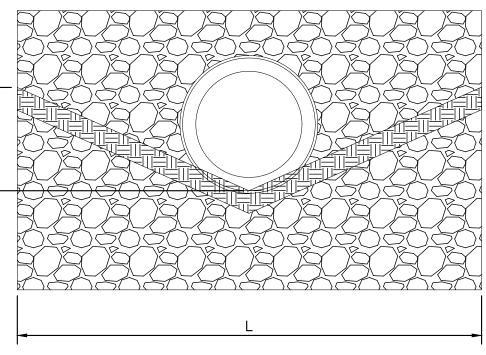
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MORTAR RUBBLE MASONRY HEADWALL DETAIL

SECTION A-A



PLAN



3. PC-4 HEADWALL SHOWN. SEE NHDOT STANDARD DETAILS FOR PC-4L AND PC-8 HEADWALLS.

2. PROVIDE GROOVE END AT INLET HEADWALL AND TONGUE END AT OUTLET HEADWALL.

DIAMETER.

HEADWALL

LENGTH

L

4'–3"

7'-0"

6'-0"

DIA.

D

12

15

18_____

1. ALL DIMENSIONS GIVEN IN FEET AND INCHES EXCEPT PIPE

HEADWALL

HEIGHT

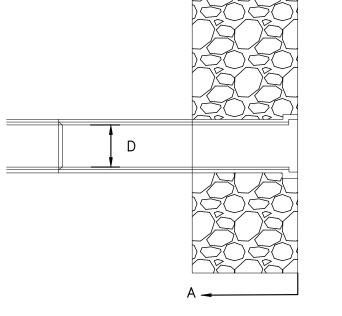
н

3'-9"

4'-3"

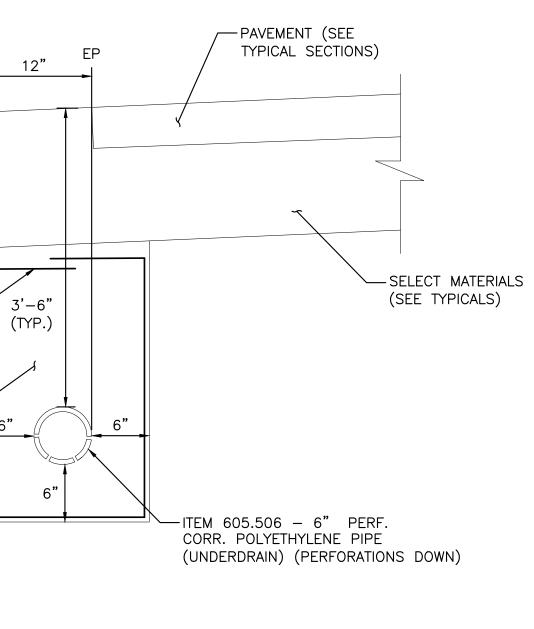
4'-6"





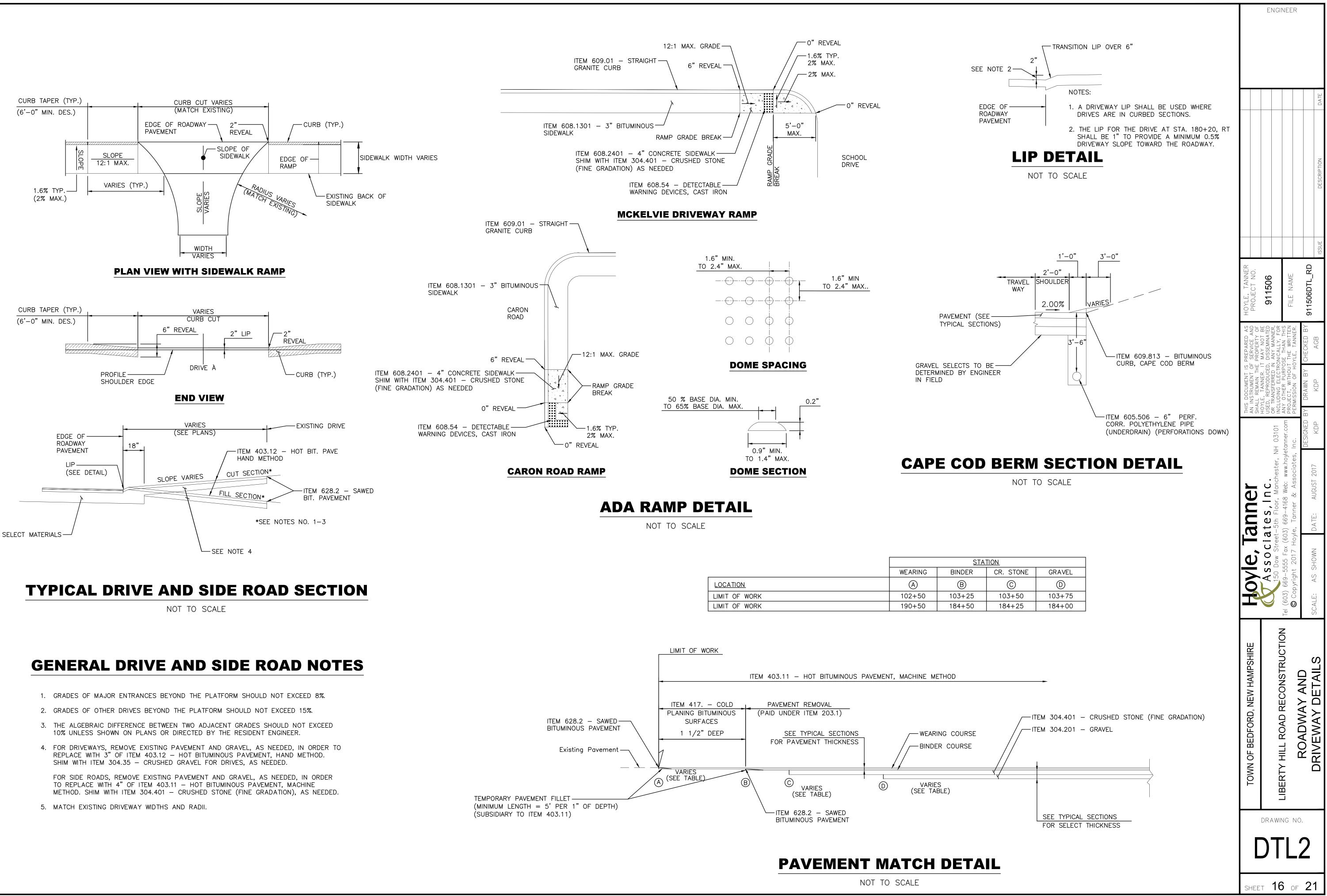
FILL HEIGHT	PIPE COVER	HEADWALL BOTTOM WIDTH
FH	h	W
1'-1"	1'-3"	2'-0"
1'-7"	1'-6"	2'-1"
1'—10"	1'-6"	2'-2"



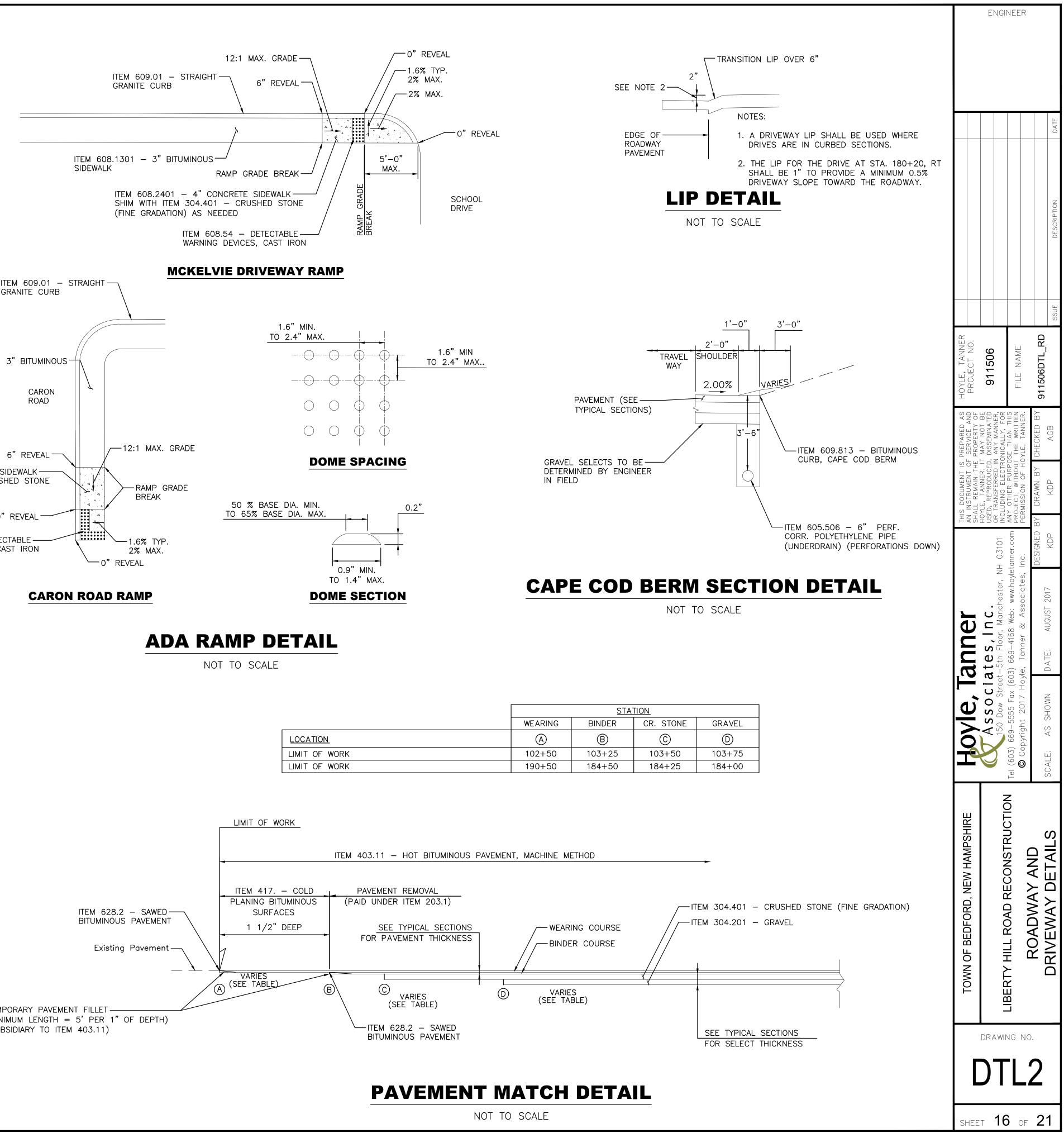


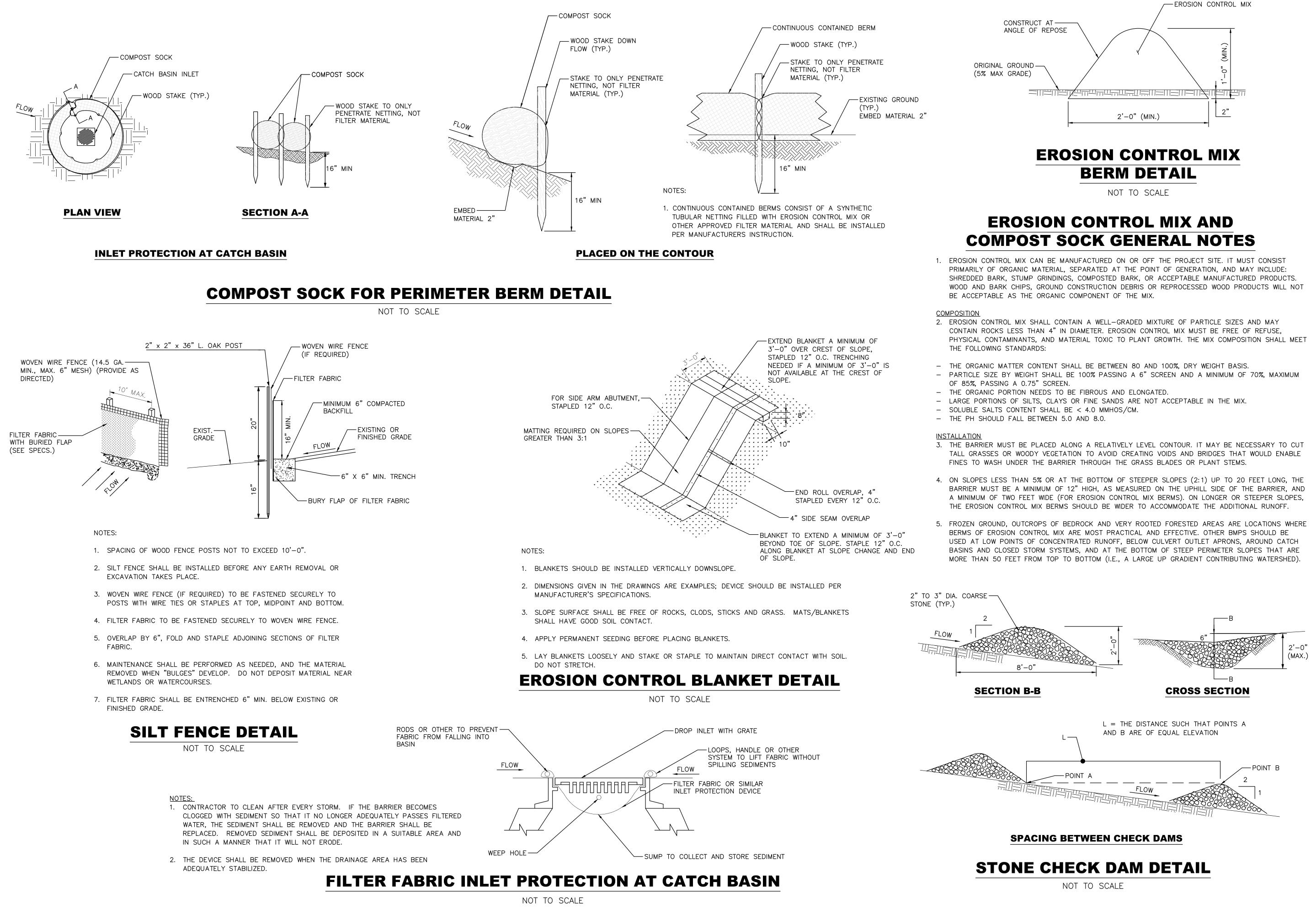
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⊢ < 0 :			DESIGNED BY
Hoyle, Tanner	Associates, Inc. 150 Dow Street-5th Floor, Manchester, NH 03101	Tel (603) 669-5555 Fax (603) 669-4168 Web: www.hoyletanner.com © Copyright 2017 Hoyle, Tanner & Associates, Inc.	SCALE: AS SHOWN DATE: AUGUST 2017
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	WEARING	BIND
LOCATION	A	B
LIMIT OF WORK	102+50	103+
LIMIT OF WORK	190+50	184+





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Hoyle, Tanner Associates, Inc. 150 Dow Street-5th Floor, Manchester, NI Tel (603) 669-5555 Fax (603) 669-4168 Web: www.hoyle1 © Copyright 2017 Hoyle, Tanner & Associates, SCALE: AS SHOWN DATE: AUGUST 2017		HOYLE, TANNER. IT MAY NOT BE USED, REPRODUCED, DISSEMINATED OR TRANSFERRED IN ANY MANNER, INCLUDING ELECTRONICALLY, FOR	ANY OTHER PURPOSE THAN THIS Project, without the written Permission of hoyle. tanner.		КDР
TOWN OF BEDFORD, NEW HAMPSHIRE LIBERTY HILL ROAD RECONSTRUCTION EROSION CONTROL DETAILS	Hoyle, Tanner	Associates, Inc. 150 Dow Street-5th Floor, Manchester, NH 03101	Tel (603) 669-5555 Fax (603) 669-4168 Web: www.hoyletanner.cor O Copyright 2017 Hoyle, Tanner & Associates, Inc.		AS SHUWN DATE: AUGUST ZULI
	DFORD, NEW HAMPSHIRE			SION CONTROL DETAILS	

- 1. ENVIRONMENTAL COMMITMENTS:
 - 1.1. THESE GUIDELINES DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH ANY CONTRACT PROVISIONS, OR APPLICABLE FEI THIS PROJECT WILL BE SUBJECT TO THE US EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATE 1.2.
 - ADMINISTERED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS PROJECT IS SUBJECT TO REQUIREMENTS IN THE MOST THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NHDES WETLAND NOTIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS. 1.3. ALL STORM WATER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION (DECEMBER 2008) (BMP MANUAL) AVAILABLE FROM THE
 - SERVICES (NHDES). THE CONTRACTOR SHALL COMPLY WITH RSA 485-A:17, AND ALL, PUBLISHED NHDES ALTERATION OF TERRAIN (AoT) ENV-WQ 15 1.5.
 - (HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/LEGAL/RULES/INDEX.HTM). THIS PROJECT FALLS UNDER THE AoT GENERAL THE CONTRACTOR IS DIRECTED TO REVIEW AND COMPLY WITH THE CONTRACT AS IT REFERS TO SPILLAGE, AND ALSO WITH REGA 1.6. PRECAUTIONS.
- 2. STANDARD EROSION CONTROL SEQUENCING APPLICABLE TO ALL CONSTRUCTION PROJECTS:
 - 2.1. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. PERIMETER CONTROLS AND STABILIZED CC IN THE BMP MANUAL AND AS DIRECTED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARER. EROSION, SEDIMENTATION CONTROL MEASURES AND INFILTRATION BASINS SHALL BE CLEANED, REPLACED AND AUGMENTED AS NE 2.2.
 - PROJECT LIMITS THROUGHOUT THE PROJECT DURATION.
 - 2.3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT FOR ROAD AND BRIDGE CONSTRUCTION.
 - 2.4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: (A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - (B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - (C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED; OR
 - (D) TEMPORARY SLOPE STABILIZATION CONFORMING TO TABLE 1 HAS BEEN PROPERLY INSTALLED.
 - 2.5. ALL STOCKPILES SHALL BE CONTAINED WITH A PERIMETER CONTROL. IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS, MULCHING WILL BE REQUIRED. 2.6. A WATER TRUCK SHALL BE AVAILABLE TO CONTROL EXCESSIVE DUST AT THE DIRECTION OF THE ENGINEER.
 - 2.7. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN UNTIL THE AREA HAS BEEN PERMANENTLY STABILIZED. 2.8. CONSTRUCTION PERFORMED ANY TIME BETWEEN NOVEMBER 30" AND MAY 1" OF ANY YEAR SHALL BE CONSIDERED WINTER CONSTRUCTION AND SHALL CONFORM TO THE FOLLOWING
 - REQUIREMENTS. (A) ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15", OR WHICH ARE DISTURBED AFTER OCTOBER 15", SHALL
 - BE STABILIZED IN ACCORDANCE WITH TABLE 1. (B) ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15", OR WHICH ARE DISTURBED AFTER OCTOBER 15", SHALL BE STABILIZED TEMPORARILY WITH STONE OR IN ACCORDANCE WITH TABLE 1.
 - (C) AFTER NOVEMBER 30™ INCOMPLETE ROAD SURFACES, WHERE WORK HAS STOPPED FOR THE SEASON, SHALL BE PROTECTED IN ACCORDANCE WITH TABLE 1. (D) WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE PROJECT IS WITHOUT STABILIZATION AT ONE TIME. UNLESS A WINTER STABILIZATION PLAN HAS BEEN APPROVED BY THE ENGINEER.
 - (E) A SWPPP AMENDMENT SHALL BE SUBMITTED TO THE ENGINEER, FOR APPROVAL, ADDRESSING COLD WEATHER STABILIZATION (ENV-WQ 1505.05) NO LESS THAN 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK SCHEDULED AFTER NOVEMBER 30".

GENERAL CONSTRUCTION PLANNING AND SELECTION OF STRATEGIES TO CONTROL EROSION AND SEDIMENT ON HIGHWAY CONSTRUCTION PROJECTS

- 3. PLAN ACTIVITIES TO ACCOUNT FOR SENSITIVE SITE CONDITIONS: 3.1. CLEARLY FLAG AREAS TO BE PROTECTED IN THE FIELD AND PROVIDE CONSTRUCTION BARRIERS TO PREVENT TRAFFICKING OUTSIDE OF WORK AREAS.
 - 3.2. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DURATION AND AREA OF EXPOSED SOILS.
 - 3.3. PROTECT AND MAXIMIZE EXISTING NATIVE VEGETATION AND NATURAL FOREST BUFFERS BETWEEN CONSTRUCTION ACTIVITY AND SENSITIVE AREAS.
 - 3.4. WHEN WORK IS PERFORMED IN AND NEAR WATER COURSES, STREAM FLOW DIVERSION METHODS SHALL BE IMPLEMENTED PRIOR TO ANY EXCAVATION OR FILLING. 3.5. WHEN WORK IS PERFORMED WITHIN 50 FEET OF SURFACE WATERS (WETLAND, OPEN WATER OR FLOWING WATER), PERIMETER CONTROL SHALL BE ENHANCED CONSISTENT WITH THE LATEST VERSION OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- 4. MINIMIZE THE AMOUNT OF EXPOSED SOIL: 4.1. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DURATION AND AREA OF EXPOSED SOILS. MINIMIZE THE AREA OF EXPOSED SOIL AT ANY ONE TIME. PHASING SHALL BE USED TO REDUCE THE AMOUNT AND DURATION OF SOIL EXPOSED TO THE ELEMENTS AND VEHICLE TRACKING.
 - UTILIZE TEMPORARY MULCHING OR PROVIDE ALTERNATE TEMPORARY STABILIZATION ON EXPOSED SOILS IN ACCORDANCE WITH TABLE 1. 4.3. THE MAXIMUM AMOUNT OF DISTURBED EARTH SHALL NOT EXCEED A TOTAL OF 5 ACRES FROM MAY 1" THROUGH NOVEMBER 30", OR EXCEED ONE ACRE DURING WINTER MONTHS, UNLESS THE CONTRACTOR DEMONSTRATES TO THE ENGINEER THAT THE ADDITIONAL AREA OF DISTURBANCE IS NECESSARY TO MEET THE CONTRACTORS CRITICAL PATH METHOD SCHEDULE (CPM), AND THE CONTRACTOR HAS ADEQUATE RESOURCES AVAILABLE TO ENSURE THAT ENVIRONMENTAL COMMITMENTS WILL BE MET.
- 5. CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT:
 - 5.1. DIVERT OFF SITE RUNOFF OR CLEAN WATER AWAY FROM THE CONSTRUCTION ACTIVITY TO REDUCE THE VOLUME THAT NEEDS TO BE TREATED ON SITE.
 - 5.2. DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM DISTURBED AREAS, SLOPES, AND AROUND ACTIVE WORK AREAS AND TO A STABILIZED OUTLET LOCATION.
 - CONSTRUCT IMPERMEABLE BARRIERS AS NECESSARY TO COLLECT OR DIVERT CONCENTRATED FLOWS FROM WORK OR DISTURBED AREAS. 5.3. 5.4. STABILIZE, TO APPROPRIATE ANTICIPATED VELOCITIES, CONVEYANCE CHANNELS OR PUMPING SYSTEMS NEEDED TO CONVEY CONSTRUCTION STORMWATER TO BASINS AND DISCHARGE LOCATIONS PRIOR TO USE.
 - 5.5. DIVERT OFF-SITE WATER THROUGH THE PROJECT IN AN APPROPRIATE MANNER SO NOT TO DISTURB THE UPSTREAM OR DOWNSTREAM SOILS, VEGETATION OR HYDROLOGY BEYOND THE PERMITTED AREA.
- 6. PROTECT SLOPES:
 - 6.1. INTERCEPT AND DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM UNPROTECTED AND NEWLY ESTABLISHED AREAS AND SLOPES TO A STABILIZED OUTLET OR CONVEYANCE.
 - CONSIDER HOW GROUNDWATER SEEPAGE ON CUT SLOPES MAY IMPACT SLOPE STABILITY AND INCORPORATE APPROPRIATE MEASURES TO MINIMIZE EROSION. 6.2. 6.3. CONVEY STORMWATER DOWN THE SLOPE IN A STABILIZED CHANNEL OR SLOPE DRAIN.
 - THE OUTER FACE OF THE FILL SLOPE SHOULD BE IN A LOOSE RUFFLED CONDITION PRIOR TO TURF ESTABLISHMENT. TOPSOIL OR HUMUS LAYERS SHALL BE TRACKED UP AND DOWN 6.4. THE SLOPE, DISKED, HARROWED, DRAGGED WITH A CHAIN OR MAT. MACHINE-RAKED. OR HAND-WORKED TO PRODUCE A RUFFLED SURFACE.
- 7. ESTABLISH STABILIZED CONSTRUCTION EXITS:
 - 7.1. INSTALL AND MAINTAIN CONSTRUCTION EXITS, ANYWHERE TRAFFIC LEAVES A CONSTRUCTION SITE ONTO A PUBLIC RIGHT-OF-WAY. 7.2. SWEEP ALL CONSTRUCTION RELATED DEBRIS AND SOIL FROM THE ADJACENT PAVED ROADWAYS AS NECESSARY.
- 8. PROTECT STORM DRAIN INLETS:
 - 8.1. DIVERT SEDIMENT LADEN WATER AWAY FROM INLET STRUCTURES TO THE EXTENT POSSIBLE.
 - 8.2. INSTALL SEDIMENT BARRIERS AND SEDIMENT TRAPS AT INLETS TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
 - 8.3. CLEAN CATCH BASINS, DRAINAGE PIPES, AND CULVERTS IF SIGNIFICANT SEDIMENT IS DEPOSITED. 8.4. DROP INLET SEDIMENT BARRIERS SHOULD NEVER BE USED AS THE PRIMARY MEANS OF SEDIMENT CONTROL AND SHOULD ONLY BE USED TO PROVIDE AN ADDITIONAL LEVEL OF PROTECTION TO STRUCTURES AND DOWN-GRADIENT SENSITIVE RECEPTORS.
- 9. SOIL STABILIZATION:
 - 9.1. WITHIN THREE DAYS OF THE LAST ACTIVITY IN AN AREA, ALL EXPOSED SOIL AREAS, WHERE CONSTRUCTION ACTIVITIES ARE COMPLETE, SHALL BE STABILIZED. 9.2. IN ALL AREAS, TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED IN ACCORDANCE WITH THE STABILIZATION REQUIREMENTS OF THE CGP. (SEE TABLE 1 FOR GUIDANCE ON THE SELECTION OF TEMPORARY SOIL STABILIZATION MEASURES.)
 - 9.3. EROSION CONTROL SEED MIX SHALL BE SOWN IN ALL INACTIVE CONSTRUCTION AREAS THAT WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE AND PRIOR TO SEPTEMBER 15. OF ANY GIVEN YEAR. IN ORDER TO ACHIEVE VEGETATIVE STABILIZATION PRIOR TO THE END OF THE GROWING SEASON. 9.4. SOIL TACKIFIERS MAY BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND REAPPLIED AS NECESSARY TO MINIMIZE SOIL AND MULCH LOSS UNTIL
 - PERMANENT VEGETATION IS ESTABLISHED.
- 10. RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES:
 - 10.1. TEMPORARY SEDIMENT BASINS (CGP) OR SEDIMENT TRAPS (ENV-WQ) SHALL BE SIZED TO RETAIN, ON SITE, THE VOLUME OF A 2-YEAR 24-HOUR STORM EVENT FOR ANY AREA OF DISTURBANCE OR 3.600 CUBIC FEET OF STORMWATER RUNOFF PER ACRE OF DISTURBANCE. WHICHEVER IS GREATER. TEMPORARY SEDIMENT BASINS USED TO TREAT STORMWATER RUNOFF FROM AREAS GREATER THAN 5-ACRES OF DISTURBANCE SHALL BE SIZED TO ALSO CONTROL STORMWATER RUNOFF FROM A 10-YEAR 24 HOUR STORM EVENT. ON-SITE RETENTION OF THE 10-YEAR 24-HOUR EVENT IS NOT REQUIRED.
 - 10.2. CONSTRUCT AND STABILIZE DEWATERING INFILTRATION BASINS PRIOR TO ANY EXCAVATION THAT MAY REQUIRE DEWATERING. 10.3. TEMPORARY SEDIMENT BASINS OR TRAPS SHALL BE PLACED AND STABILIZED AT LOCATIONS WHERE CONCENTRATED FLOW (CHANNELS AND PIPES) DISCHARGE TO THE SURROUNDING ENVIRONMENT FROM AREAS OF UNSTABILIZED EARTH DISTURBING ACTIVITIES.

EROSION CONTROL STRATEGIES

	11.	ADDITI	ONAL EROSION AND SEDIMENT CONTROL GENERAL PRACTICES:
EDERAL, STATE, AND LOCAL REGULATIONS.		11.1.	USE TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIV
TER CONSTRUCTION GENERAL PERMIT AS			FOR DUST CONTROL. USE MECHANICAL SWEEPERS ON PAVED SURFACES V
T RECENT CONSTRUCTION GENERAL PERMIT (CGP).			DUST INHIBITING AGENTS OR TACKIFIERS, AS APPROVED BY THE ENGINEER.
		11.2.	ALL STOCKPILES SHALL BE CONTAINED WITH TEMPORARY PERIMETER CONTI
THE NEW HAMPSHIRE STORMWATER MANUAL,			STABILIZATION MEASURES (TEMPORARY EROSION CONTROL SEED MIX AND I
E NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL		11.3.	EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED IN ACCO
			WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.25 IN. OF F
1500 REQUIREMENTS			WILL ALSO BE INSPECTED IN ACCORDANCE WITH THE EPA CONSTRUCTION (
PERMIT BY RULE.		11.4.	THE CONTRACTOR SHOULD UTILIZE STORM DRAIN INLET PROTECTION TO PR
GARDS TO EROSION, POLLUTION, AND TURBIDITY			THE PERMANENT STABILIZATION OF THE CONTRIBUTING DISTURBED AREA.
		11.5.	PERMANENT STABILIZATION MEASURES WILL BE CONSTRUCTED AND MAINTA
			STABILIZE AREAS. VEGETATIVE STABILIZATION SHALL NOT BE CONSIDERED I
			85% OF THE DISTURBED AREA. THE CONTRACTOR SHALL BE RESPONSIBLE
			COMPLETION.
		11.6.	CATCH BASINS: CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO I
CONSTRUCTION FYITS SUALL DE INSTALLED AS SUOWN			CONTRACTOR SHALL PLACE TEMPORARY STONE INLET PROTECTION OVER IN
CONSTRUCTION EXITS SHALL BE INSTALLED AS SHOWN			CONTAMINATION.
NECESSARY TO DREVENT SEDIMENTATION REVOND		11.7.	TEMPORARY AND PERMANENT DITCHES SHALL BE CONSTRUCTED, STABILIZE
NECESSARY TO PREVENT SEDIMENTATION BEYOND			TEMPORARY AND PERMANENT DITCHES SHALL BE DIRECTED TO DRAIN TO S
T AND SECTION 645 OF THE NHDOT SPECIFICATIONS		11.8.	WINTER EXCAVATION AND EARTHWORK ACTIVITIES NEED TO BE LIMITED IN E
AND SECTION 045 OF THE NIDOT SPECIFICATIONS			SEDIMENTATION IMPACTS. THE AREA OF EXPOSED SOIL SHALL BE LIMITED
			DAY UNLESS A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED
			ENGINEER.
		11.9.	CHANNEL PROTECTION MEASURES SHALL BE SUPPLEMENTED WITH PERIMETE

CHANNEL PROTECTION MEASURES SHALL BE SUPPLEMENTED WITH PERIMETER CONTROL MEASURES WHEN THE DITCH LINES OCCUR AT THE BOTTO OF LONG FILL SLOPES. THE PERIMETER CONTROLS SHALL BE INSTALLED ON THE FILL SLOPE TO MINIMIZE THE POTENTIAL FOR FILL SLOPE SEDI DEPOSITS IN THE DITCH LINE.

BEST MANAGEMENT PRACTICES (BMP) BASED ON AMOUNT OF OPEN CONSTRUCTION AREA

- 12. THE CONTRACTOR SHALL COMPLY WITH RSA 485: A:17 AND ENV-WQ 1500: ALTERATION OF TERRAIN FOR CONSTRUCTION AND USE ALL CONVENTIONAL STRATEGIES.
- 13. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROLS AND BMPs PER PLANS AND SPECIFICATIONS.

TABLE 1

APPLICATION AREAS	DRY MULCH METHODS			HYDRAULICALLY APPLIED MULCHES ²			ROLLED EROSION CONTROL BLANKETS ³					
	НМТ	WC	SG	СВ	НМ	SMM	BFM	FRM	SNSB	DNSB	DNSCB	DNCB
SLOPES ¹							•			•	•	
STEEPER THAN 2:1	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
2:1 SLOPE	YES ¹	YES ¹	YES	YES	NO	NO	YES	YES	NO	YES	YES	YES
3:1 SLOPE	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO
4:1 SLOPE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
WINTER STABILIZATION	4T/AC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES
CHANNELS					-		•			*		
LOW FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES
HIGH FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES

ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE
НМТ	HAY MULCH & TACK	НМ	HYDRAULIC MULCH	SNSB	SINGLE NET STRAW BLANKET
WC	WOOD CHIPS	SMM	STABILIZED MULCH MATRIX	DNSB	DOUBLE NET STRAW BLANKET
SG	STUMP GRINDINGS	BFM	BONDED FIBER MATRIX	DNSCB	2 NET STRAW-COCONUT BLANKET
СВ	COMPOST BLANKET	FRM	FIBER REINFORCED MEDIUM	DNCB	2 NET COCONUT BLANKET

NOTES:

1. ALL SLOPE STABILIZATION OPTIONS ASSUME A SLOPE LENGTH ≤10 TIMES THE HORIZONTAL DISTANCE COMPONENT OF THE SLOPE, IN FEET. 2. PRODUCTS CONTAINING POLYACRYLAMIDE (PAM) SHALL NOT BE APPLIED DIRECTLY TO OR WITHIN 100 FEET OF ANY SURFACE WATER WITHOUT PRIOR WRITTEN APPROVAL FROM THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES. 3. ALL EROSION CONTROL BLANKETS SHALL BE MADE WITH WILDLIFE FRIENDLY BIODEGRADABLE NETTING.

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TIVE COVER, AND PERMANENT VEGETATIVE COVER TO REDUCE THE NEED WHERE NECESSARY TO PREVENT DUST BUILDUP. APPLY WATER, OR O

NTROLS. INACTIVE SOIL STOCKPILES SHOULD BE PROTECTED WITH SOIL MULCH, SOIL BINDER) OR COVERED WITH ANCHORED TARPS. CORDANCE WITH SECTION 645 OF NHDOT SPECIFICATIONS, WEEKLY AND RAIN PER 24-HOUR PERIOD. EROSION AND SEDIMENT CONTROL MEASI GENERAL PERMIT.

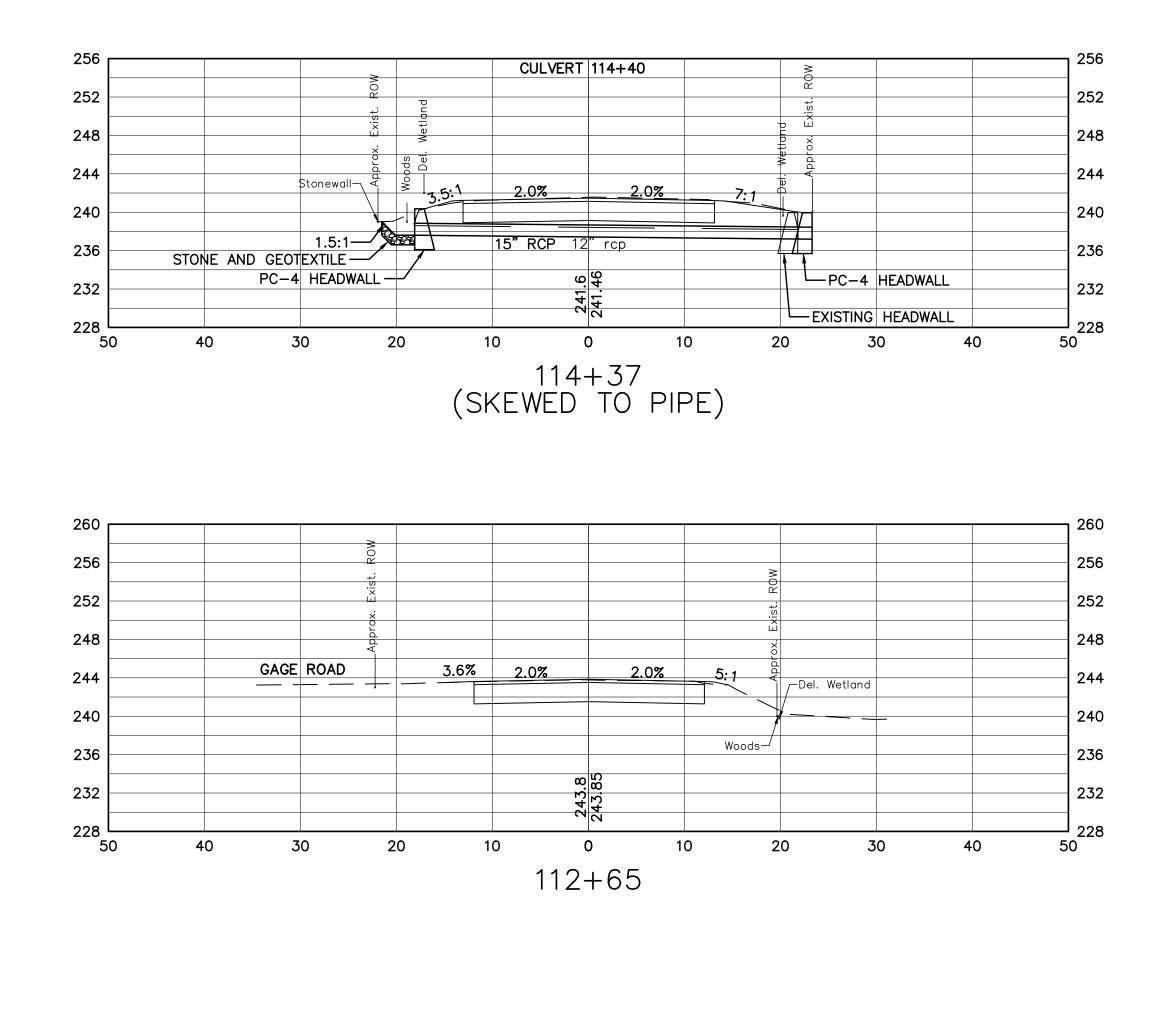
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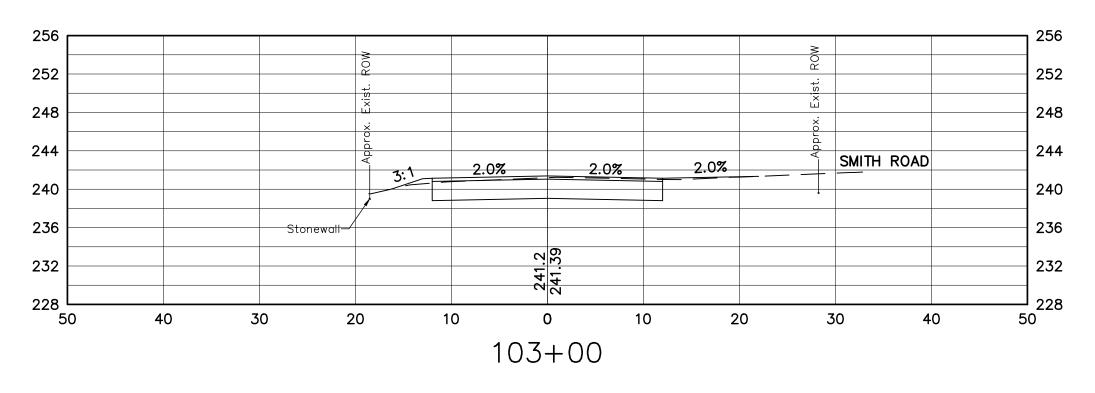
TAINED IN LOCATIONS AS SHOWN ON THE CONSTRUCTION PLANS TO PERMANENTLY STABILIZED UNTIL VEGETATIVE GROWTH COVERS AT LEAS BLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER PROJE

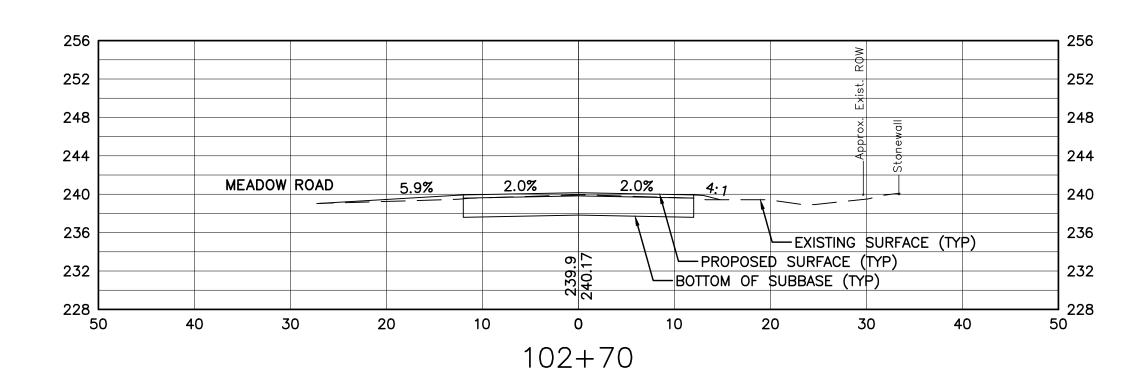
NOT ENTER ANY EXISTING CATCH BASINS DURING CONSTRUCTION. THE INLETS IN AREAS OF SOIL DISTURBANCE THAT ARE SUBJECT TO SEDIME

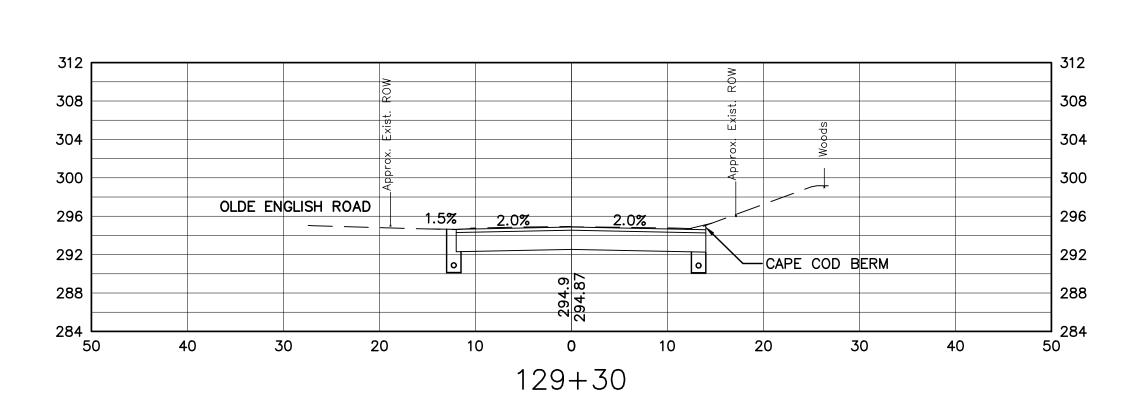
IZED AND MAINTAINED IN A MANNER THAT WILL MINIMIZE SCOUR. SEDIMENT BASINS OR STORM WATER COLLECTION AREAS. EXTENT AND DURATION, TO MINIMIZE POTENTIAL EROSION AND TO ONE ACRE, OR THAT WHICH CAN BE STABILIZED AT THE END OF ED ENGINEER OR A CPESC SPECIALIST. IS REVIEWED AND APPROVED BY

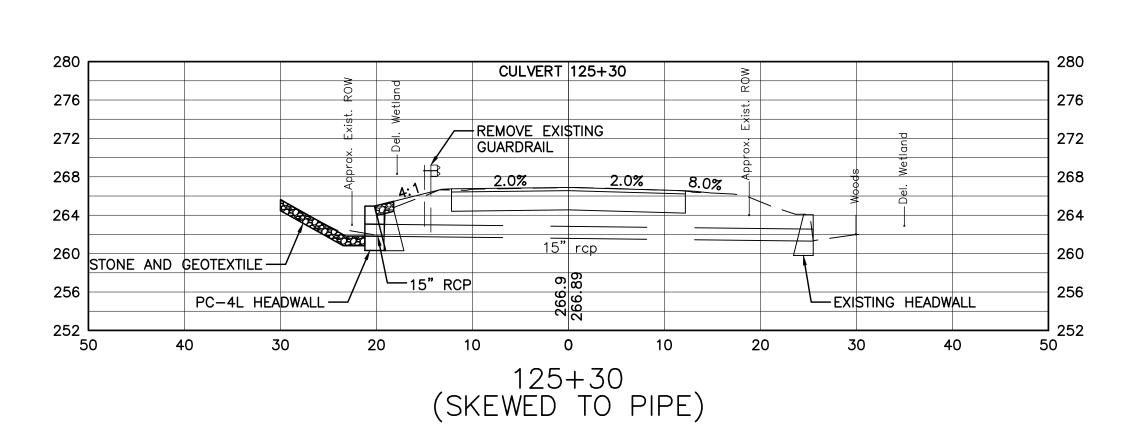
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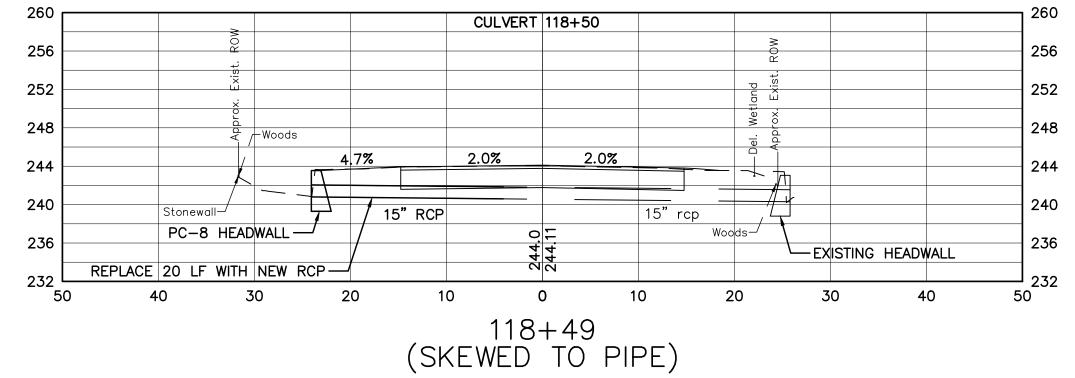


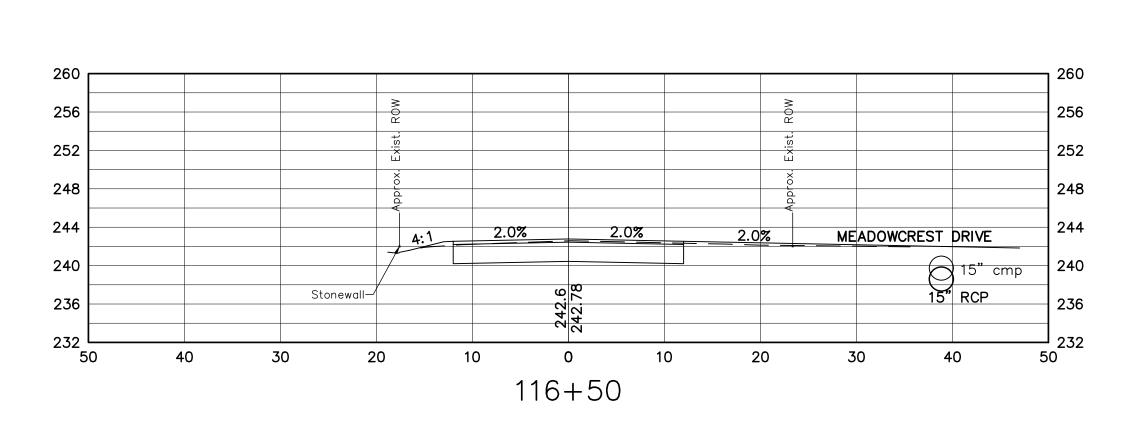






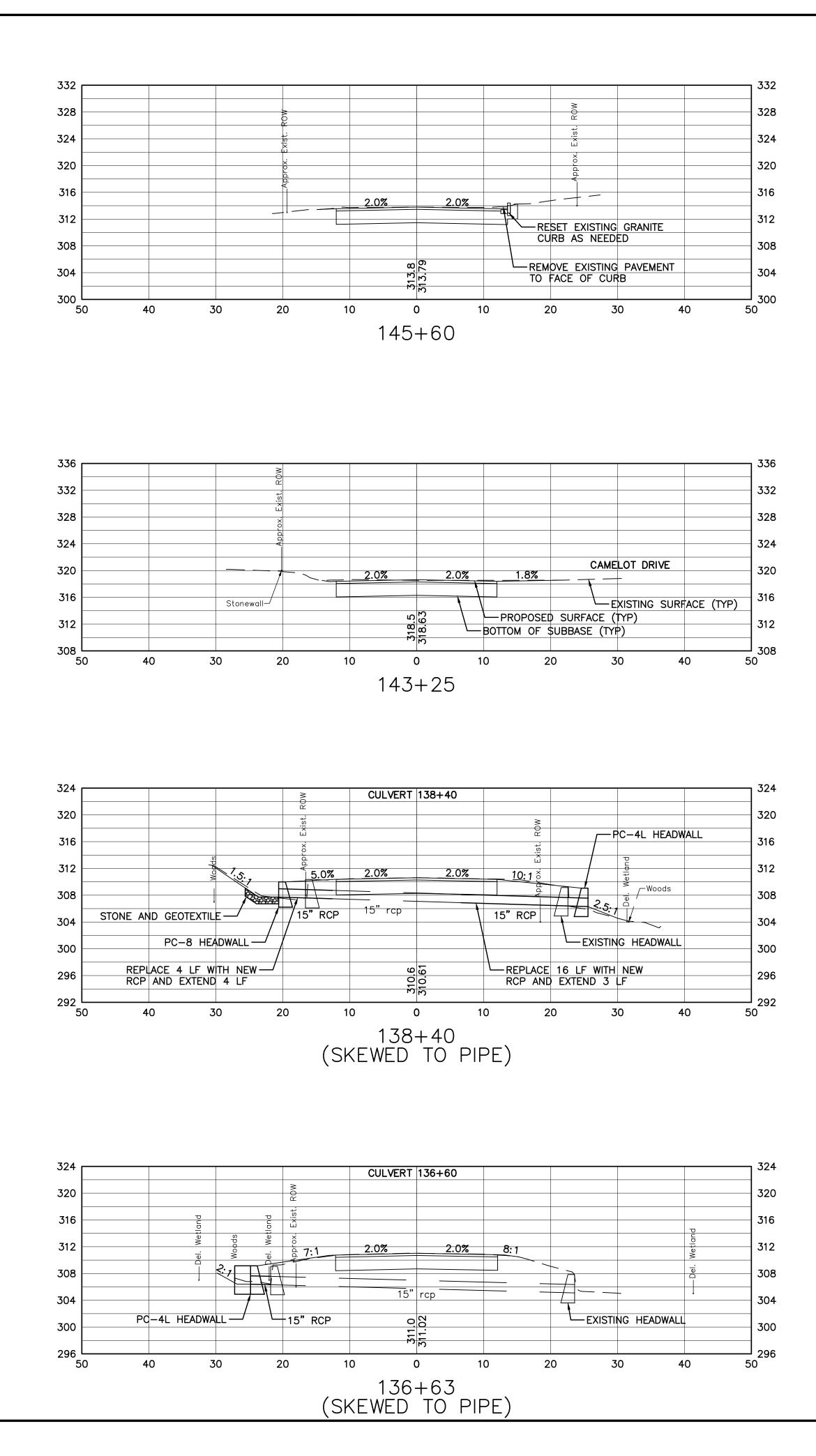


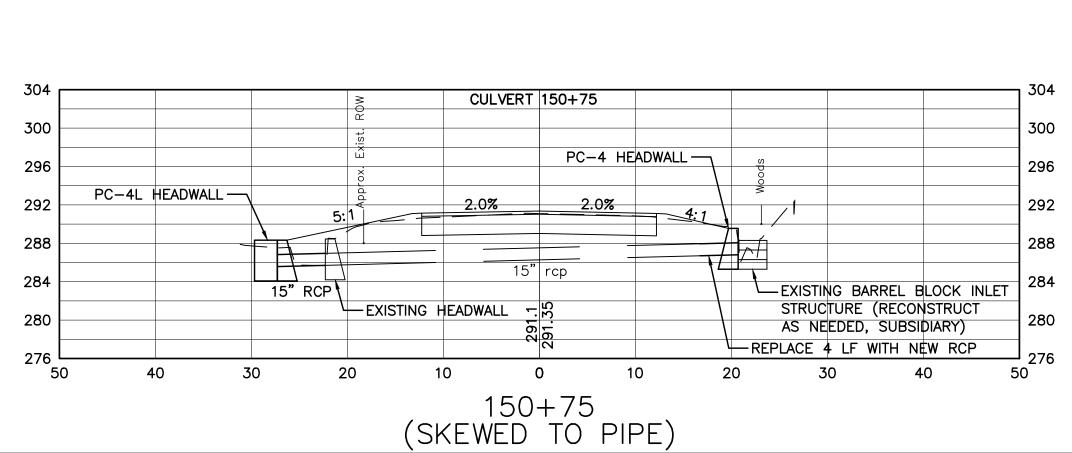


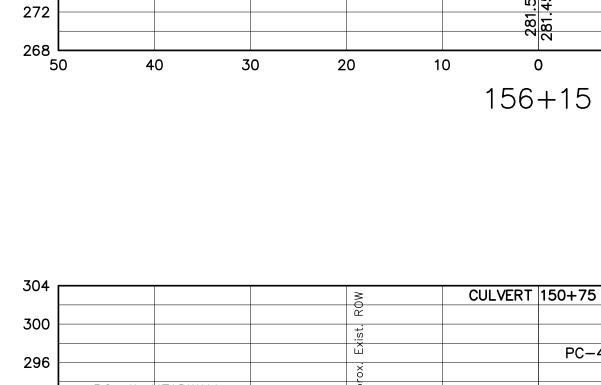


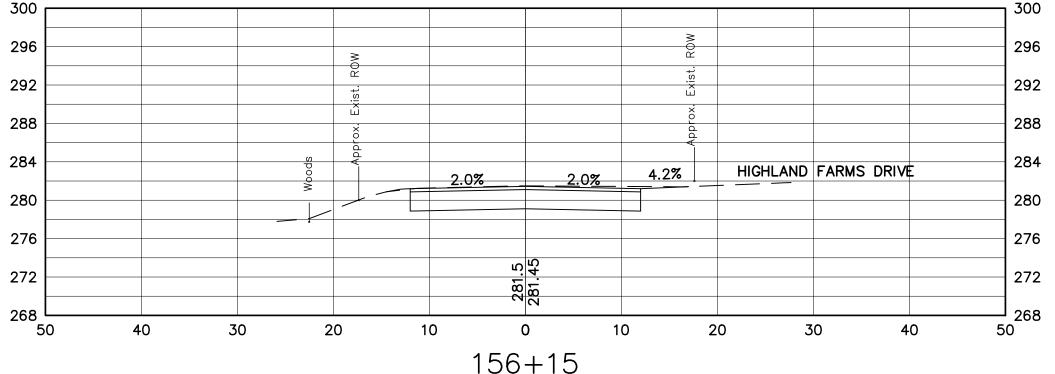


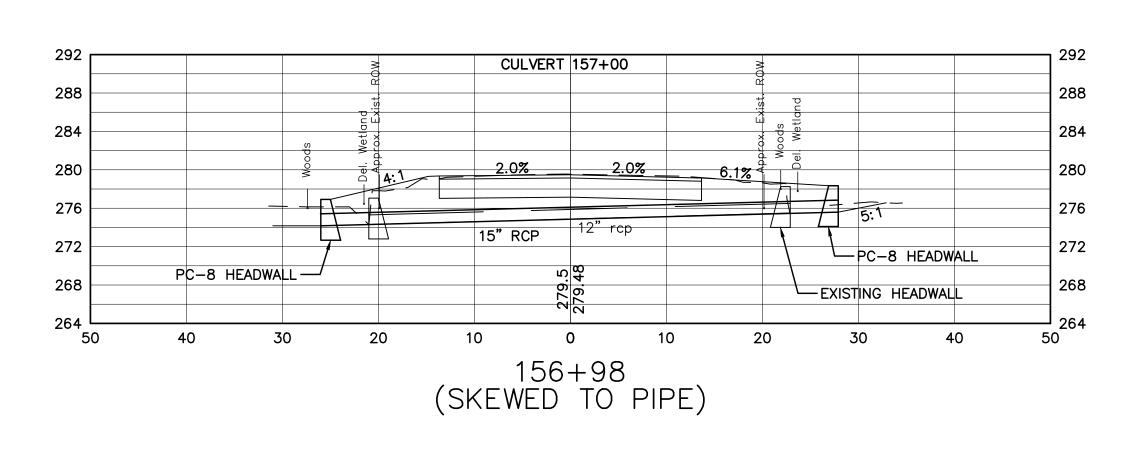
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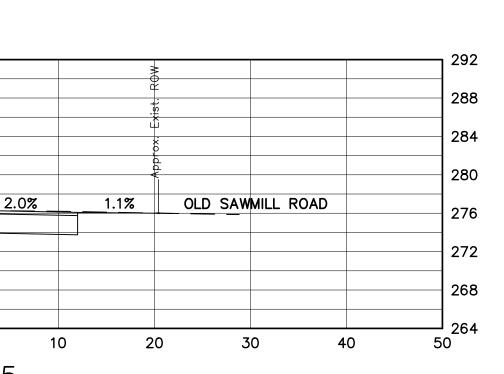


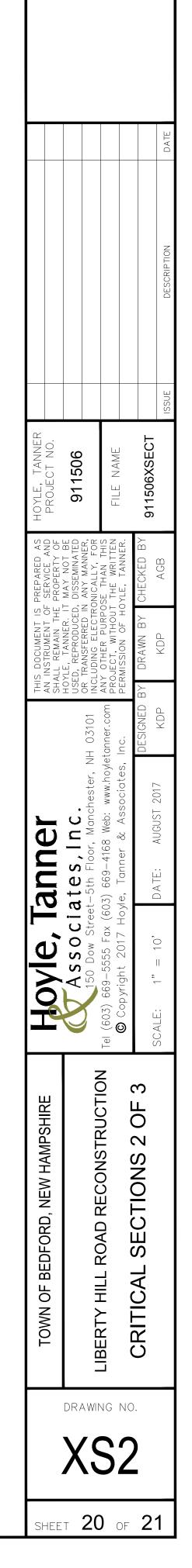


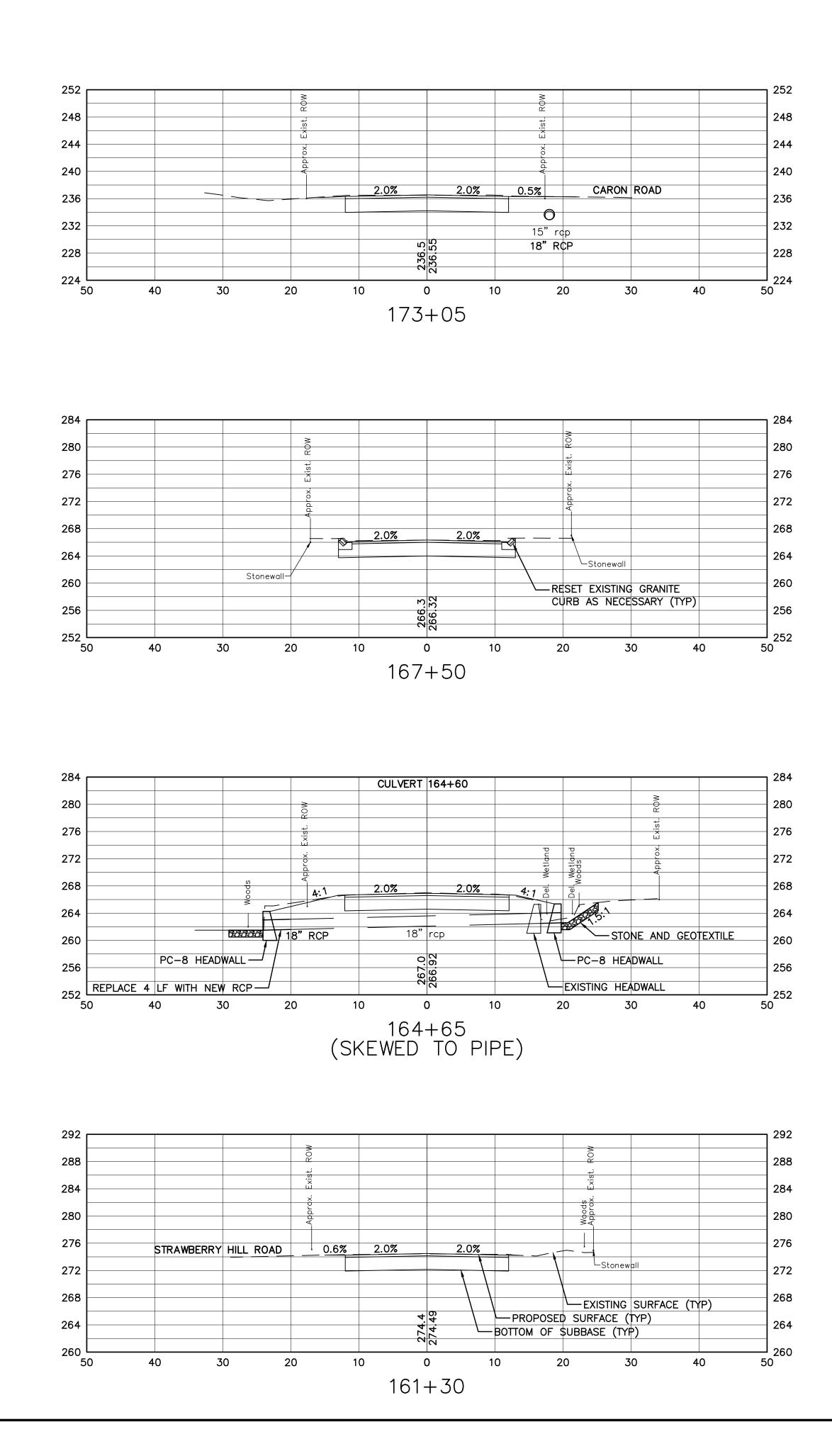
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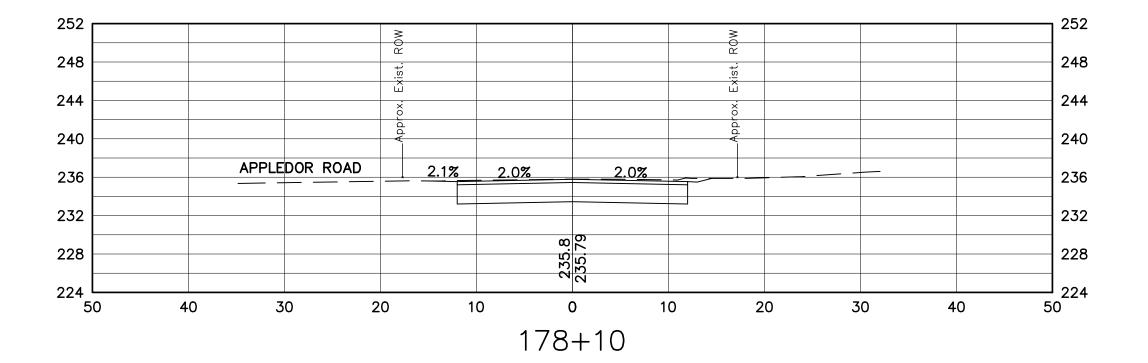
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