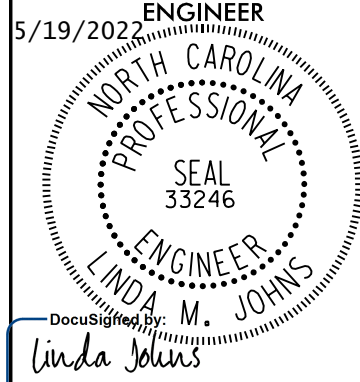

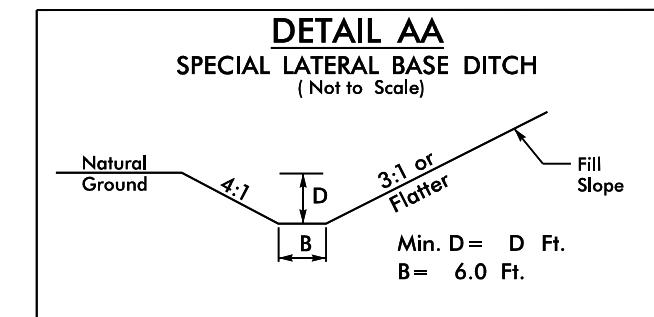
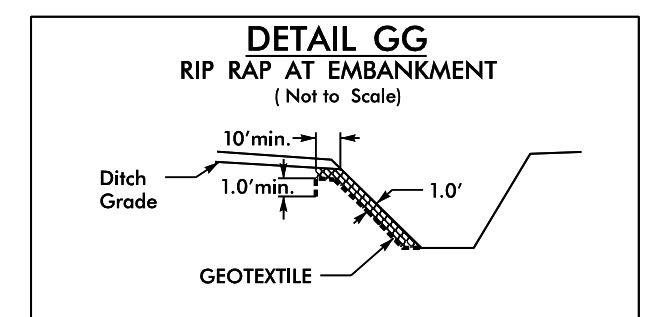


PROJECT REFERENCE NO. 1-5987A	SHEET NO. 2D-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	5/19/2022
	
DOCUMENT NOT CONSIDERED FINAL	
UNLESS ALL SIGNATURES COMPLETED	
	
<small>4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4800 VOIC (919) 781-4809 FAX NC License No.: F-0105</small>	
<small>MI ENGINEERING 1011 SCHUBB DRIVE, SUITE 100 RALEIGH, NC 27606 (919) 801-6606 FIRM PE NUMBER: P-0671</small>	

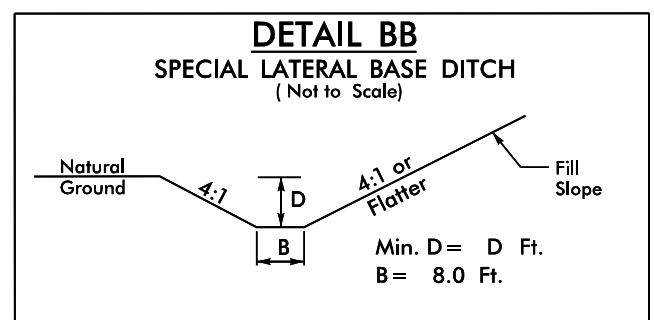
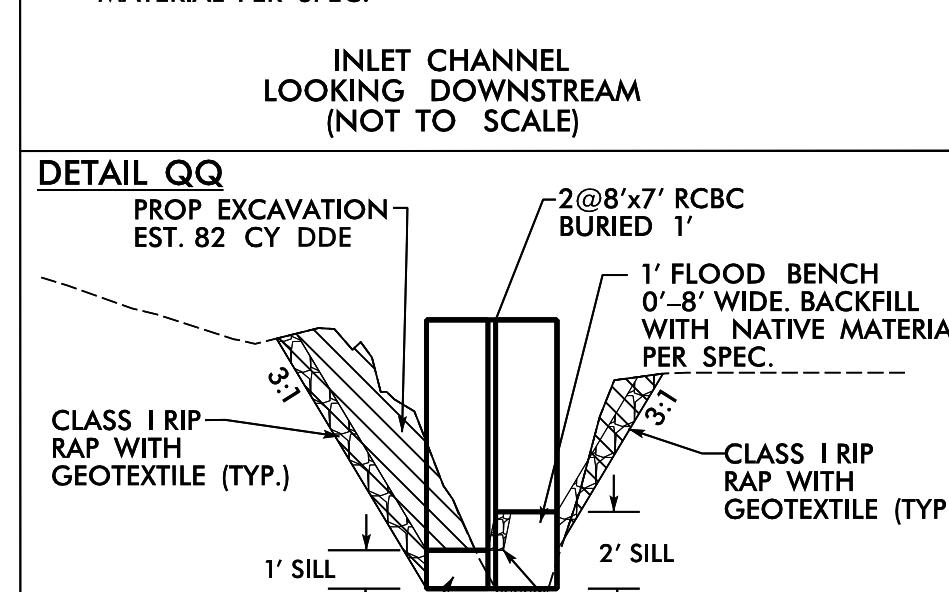
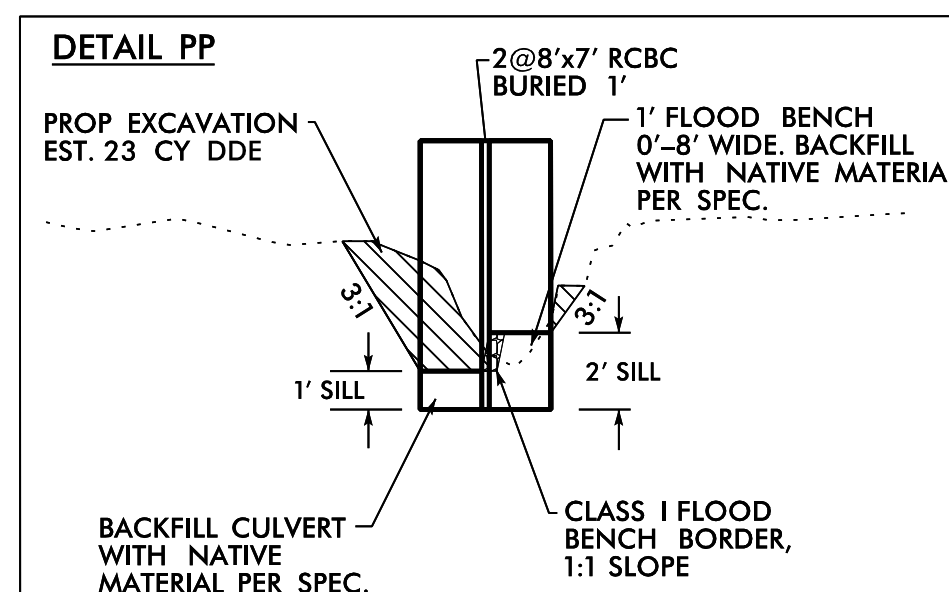
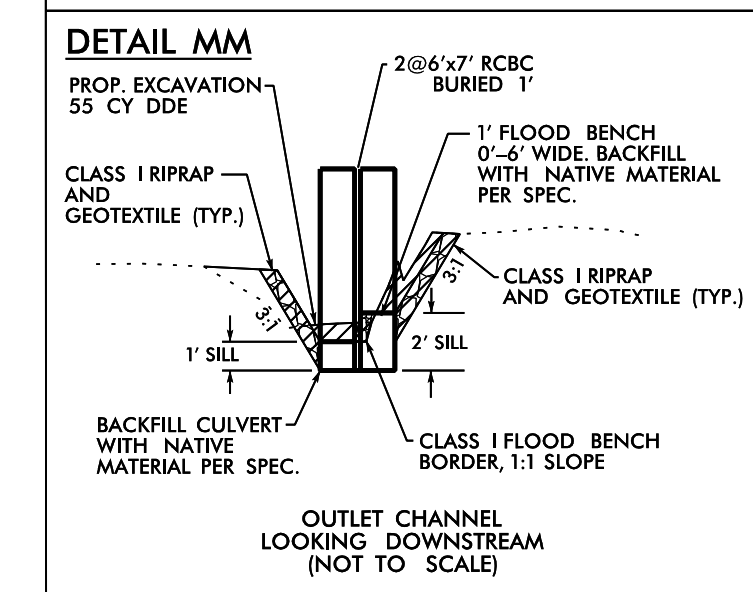
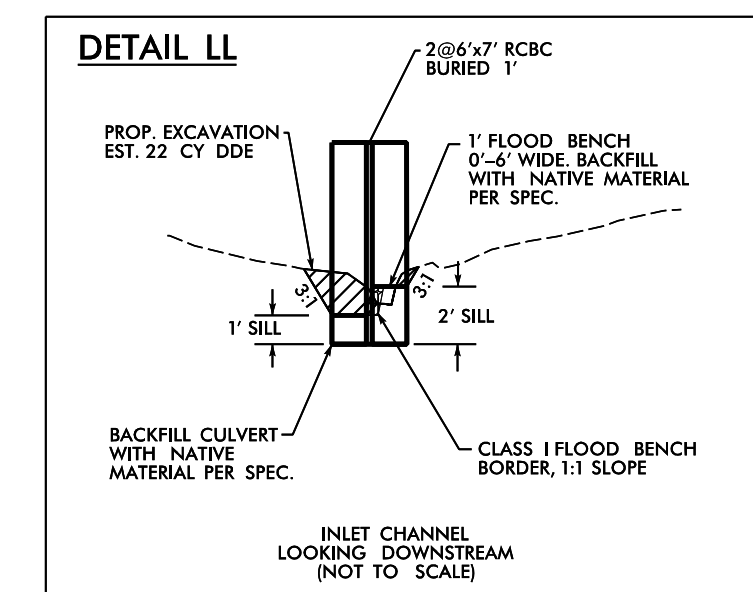


FROM -L- STA. 346+27 TO STA. 354+50 RT, D=1.0
 FROM -L- STA. 354+82 TO STA. 365+16 RT, D=1.0
 FROM -L- STA. 368+42 TO STA. 385+30 RT, D=1.0
 FROM -L- STA. 386+10 TO STA. 389+36 RT, D=1.0
 FROM -L- STA. 389+50 TO STA. 453+69 RT, D=1.0
 FROM -L- STA. 466+50 TO STA. 468+00 RT, D=1.0
 FROM -L- STA. 468+15 TO STA. 482+60 RT, D=1.5
 FROM -L- STA. 483+50 TO STA. 495+00 RT, D=1.6
 FROM -L- STA. 353+74 TO STA. 365+81 LT, D=1.0
 FROM -L- STA. 367+55 TO STA. 455+65 LT, D=2.0
 FROM -L- STA. 455+88 TO STA. 460+50 LT, D=1.0
 FROM -L- STA. 463+65 TO STA. 473+00 LT, D=1.0
 FROM -L- STA. 481+77 TO STA. 495+00 LT, D=1.0

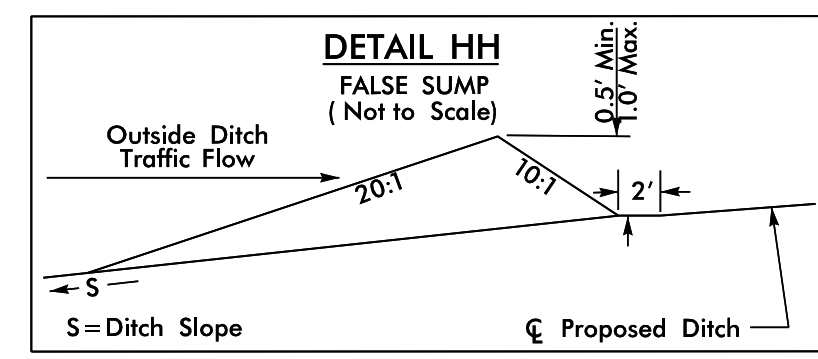


Type of Liner = CL B Rip-Rap

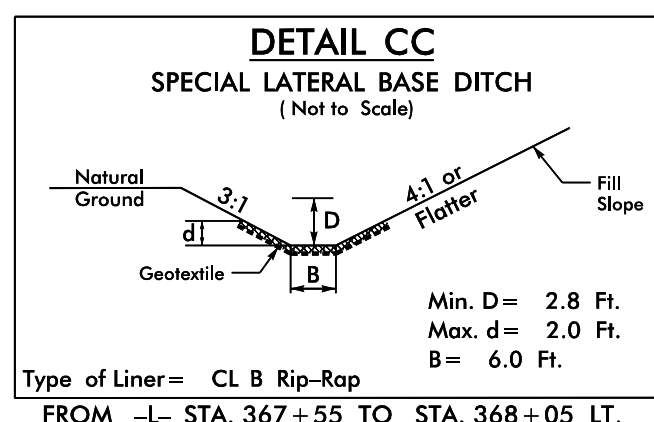
FROM -L- STA. 354+40 TO STA. 354+74 RT
 EST. 12 TON, 28 SY GEOTEXTILE
 FROM -L- STA. 354+64 TO STA. 354+89 RT
 EST. 13 TON, 30 SY GEOTEXTILE
 FROM -L- STA. 453+63 TO STA. 353+81 RT
 EST. 8 TON, 18 SY GEOTEXTILE
 FROM -L- STA. 353+63 TO STA. 353+75 LT
 EST. 9 TON, 21 SY GEOTEXTILE
 FROM -L- STA. 365+74 TO STA. 365+90 LT
 EST. 9 TON, 20 SY GEOTEXTILE
 FROM -L- STA. 403+48 TO STA. 404+24 LT
 EST. 36 TON, 31 SY GEOTEXTILE
 FROM -L- STA. 451+16 TO STA. 451+56 LT
 EST. 36 TON, 82 SY GEOTEXTILE
 FROM -L- STA. 455+44 TO STA. 455+84 LT
 EST. 21 TON, 48 SY GEOTEXTILE
 FROM -L- STA. 455+78 TO STA. 456+00 LT
 EST. 8 TON, 20 SY GEOTEXTILE
 FROM -Y3- STA. 24+66 TO STA. 24+81 LT
 EST. 14 TON, 32 SY GEOTEXTILE
 FROM -Y3- STA. 34+08 TO STA. 34+18 LT
 EST. 3 TON, 8 SY GEOTEXTILE



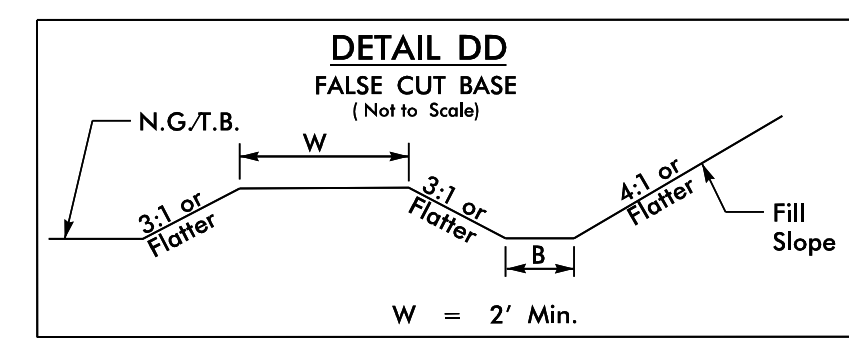
FROM -L- STA. 340+55 TO STA. 341+00 RT, D=1.0
 FROM -L- STA. 342+69 TO STA. 343+09 RT, D=1.0



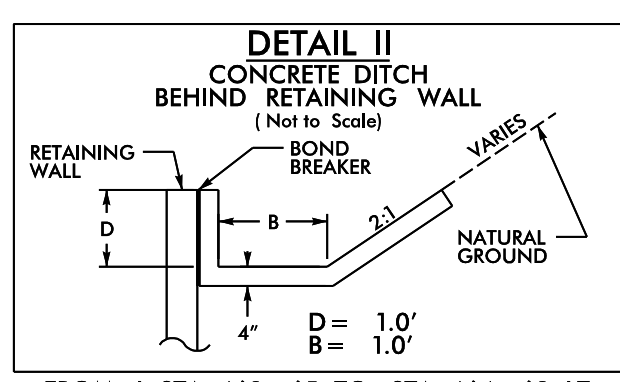
-L- STA. 360+18 RT
 -L- STA. 379+12 RT
 -L- STA. 385+30 RT
 -L- STA. 386+58 LT
 -L- STA. 403+30 LT
 -L- STA. 409+17 LT
 -L- STA. 434+60 LT
 -L- STA. 446+40 LT
 -L- STA. 473+00 LT
 -L- STA. 481+77 LT
 -L- STA. 486+15 LT



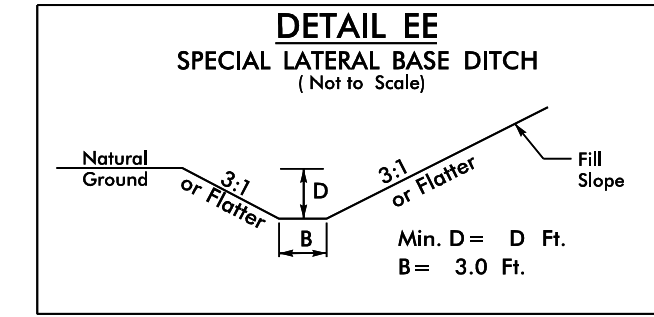
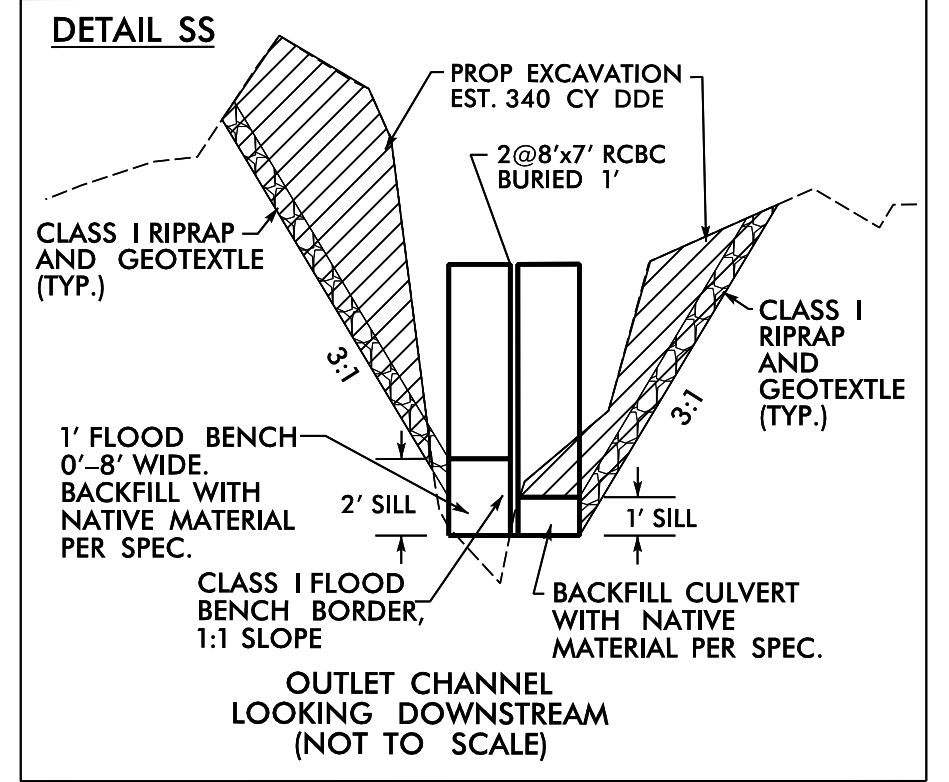
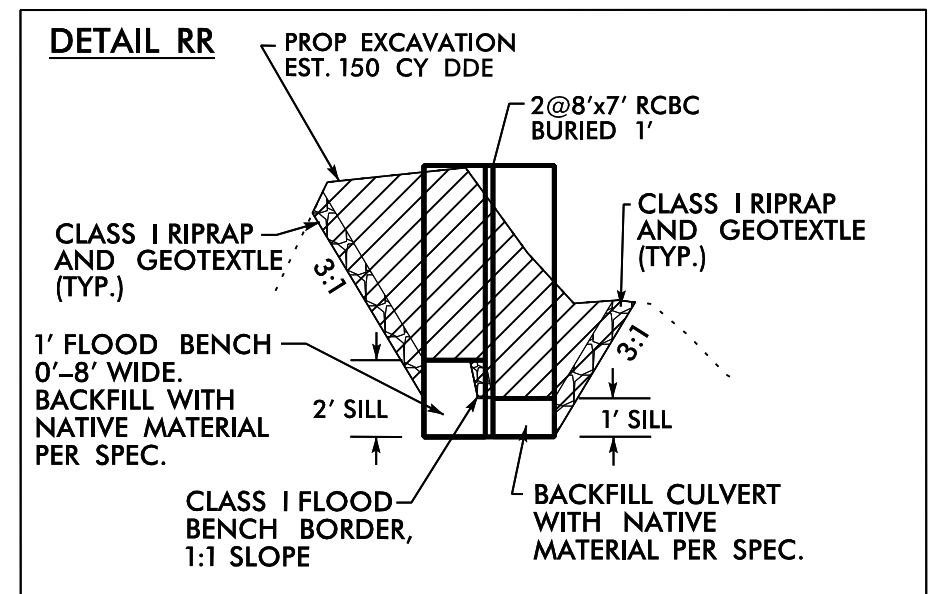
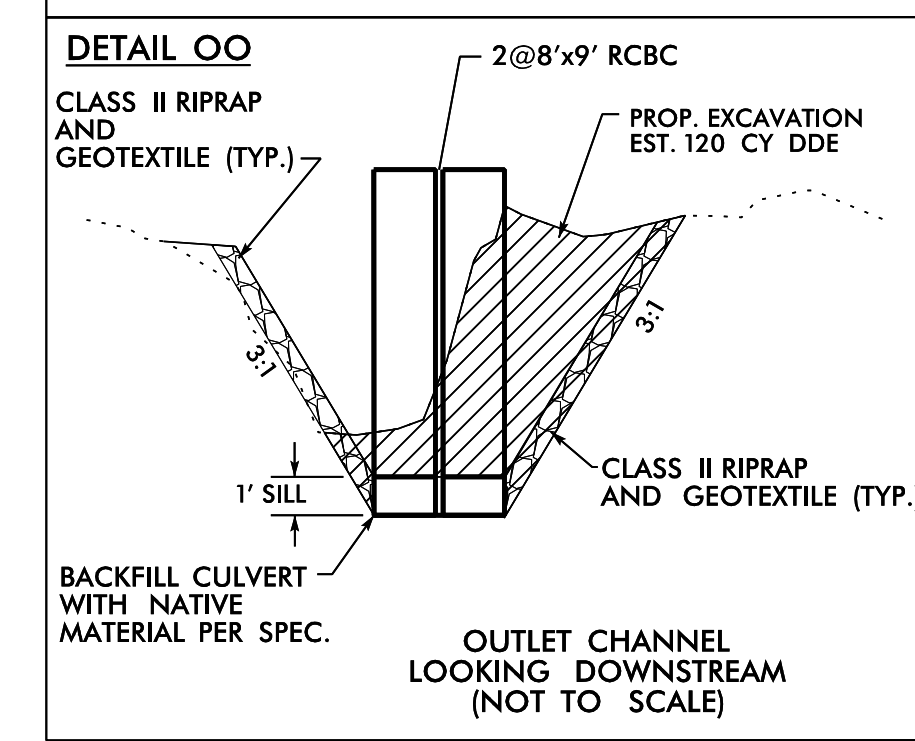
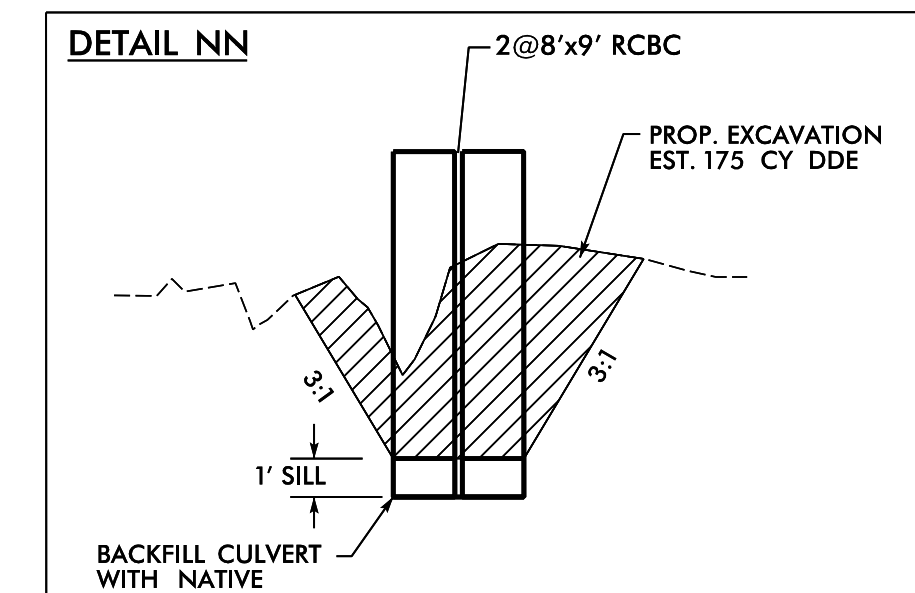
FROM -L- STA. 367+55 TO STA. 368+05 LT,
 EST. 44 TON, 111 SY GEOTEXTILE



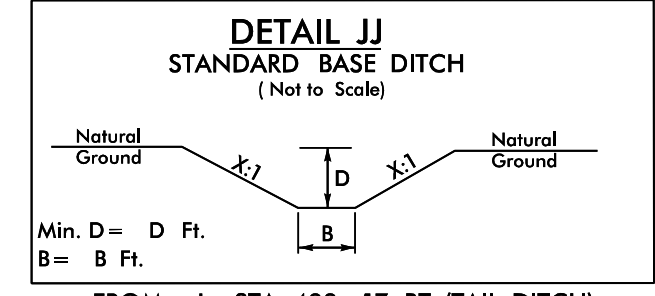
FROM -L- STA. 341+00 TO STA. 342+69 RT, B=8.0'
 FROM -L- STA. 473+00 TO STA. 481+77 LT, B=6.0'



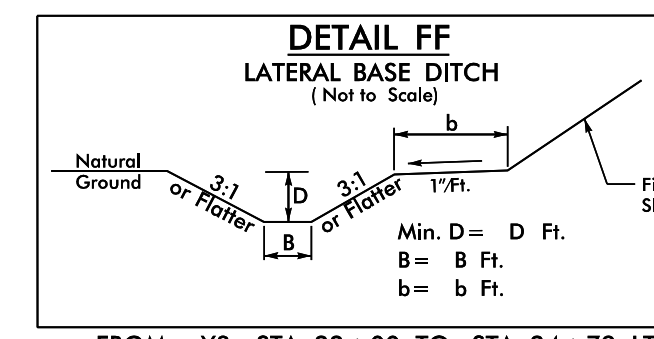
FROM L STA. 463+65 TO STA. 464+69 LT
 FROM L STA. 462+61 TO STA. 466+50 RT



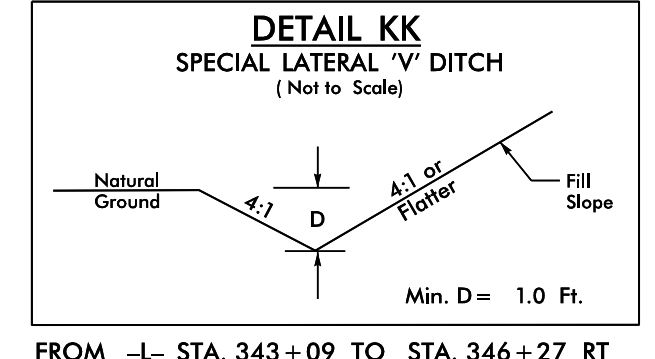
FROM -Y3- STA. 16+50 TO STA. 21+00 RT, D=1.0
 FROM -Y3- STA. 36+81 TO STA. 43+50 RT, D=1.6
 FROM -Y3- STA. 16+50 TO STA. 22+00 LT, D=1.0
 FROM -Y3- STA. 38+00 TO STA. 38+50 LT, D=1.0
 FROM -Y3- STA. 39+30 TO STA. 43+50 LT, D=1.0



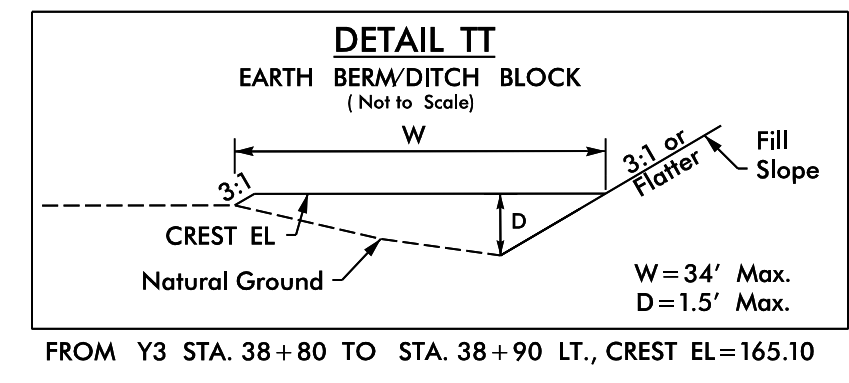
FROM -L- STA. 483+17 RT (TAIL DITCH)
 X=3.0, D=1.5, B=5.0
 S=0.00284H, L=80', DDE=45CY
 FROM -L- STA. 403+98 RT (TAIL DITCH)
 X=4.0, D=4.0, B=10.0
 S=0.00234H, L=660', DDE=1855CY,
 BEG. EL. = 150.5', END EL. = 149.0'



FROM -Y3- STA. 22+00 TO STA. 24+79 LT
 D=1.0, B=3.0, b=5.0, DDE=251CY
 FROM -Y3- STA. 34+08 TO STA. 38+00 LT
 D=1.0, B=3.0, b=5.0, DDE=380
 FROM -Y3- STA. 22+25 TO STA. 22+74 RT
 D=1.0, B=4.0, b=VAR., DDE=124CY



FROM -L- STA. 343+09 TO STA. 346+27 RT



FROM Y3 STA. 38+80 TO STA. 38+90 LT, CREST EL.=165.10