

TOWN OF NAGS HEAD, NORTH CAROLINA

PH 8C W. SIDE MULTI-USE PATH PLAN

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

THE APPROVED SEDIMENT AND EROSION CONTROL (SECP) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED SECP PLAN MUST BE REVIEWED AND APPROVED BY A NCDEQ DEMLR REPRESENTATIVE. SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE APPROVED PLAN AND THOSE SET FORTH IN THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AWAY FROM THE STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.

WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICAL, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS, FOLLOWING COMPLETION OF ANY PHASE OF GRADING; AND, A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

BENCHMARK

NOTE: ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM AND WERE DERIVED FROM FIELD SURVEY DATA ACQUIRED BY COASTAL ENGINEERING & SURVEYING, DATED 8-31-18. EACH TEMPORARY BENCH MARK SET IS COMPRISED OF A SS NAIL & WASHER EMBEDDED IN THE EXISTING PAVEMENT.

- TBM #1 - "DANUBE ST." N 816,423.40' E 3,000,205.50' ELEV. 8.88'
- TBM #2 - "OLD COVE RD." N 815,981.41' E 3,000,430.89' ELEV. 9.69'
- TBM #3 - "4611 POMPANO CT." N 815,530.23' E 3,000,663.25' ELEV. 10.56'
- TBM #4 - "OB HOSPITAL" N 814,377.52' E 3,001,227.79' ELEV. 7.88'
- TBM #5 - "OB MALL" N 813,388.41' E 3,001,725.95' ELEV. 9.50'
- TBM #5 - "W. SEACHASE DR." N 812,468.85' E 3,002,179.47' ELEV. 9.03'

UTILITY NOTE

ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER NORTH CAROLINA 811 (TOLL FREE PHONE NO. 1-800-623-4949) FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). WHEN CONTACTING THE NORTH CAROLINA 811 CALL CENTER, PLEASE STATE THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.

North Carolina
One-Call Center Inc.



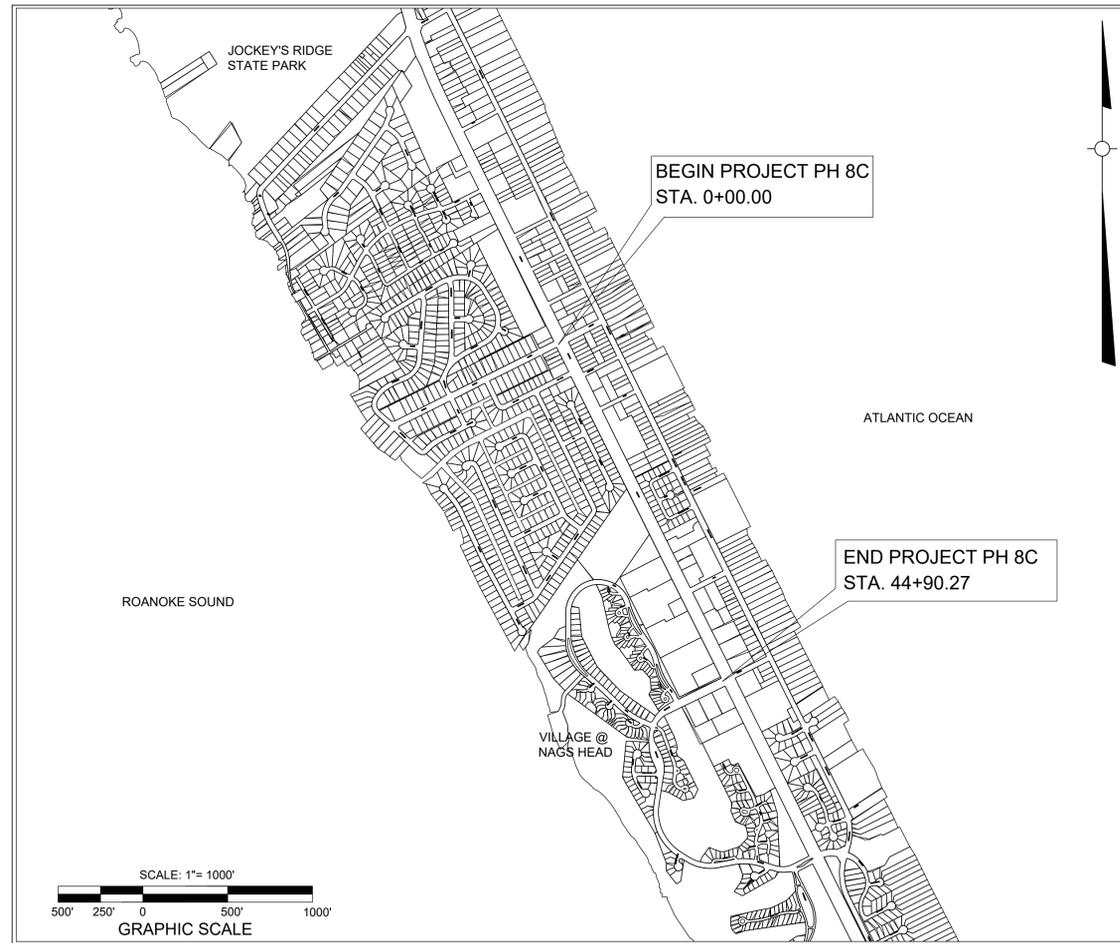
Know what's below
Call before you dig.

GENERAL NOTES

THE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE, COMPLETE, AND CURRENT. THE TOWN OF NAGS HEAD MAKES NO WARRANTY AS TO THE ACCURACY, COMPLETENESS OR CURRENCY OF THE CONTENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS INFORMATION PRIOR TO RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK UNTIL AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

ALL WORK SHALL CONFORM TO NCDOT STANDARD SPECIFICATIONS.

PROJECT LOCATION MAP



GENERAL NOTES

1. DEVELOPER: TOWN OF NAGS HEAD
P.O. BOX 99
NAGS HEAD, NC 27959
2. OWNER: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
1929 ROAD STREET
ELIZABETH CITY, NC 27939
3. TOTAL DISTURBED AREA: 122,686 SF = 2.82± AC.
4. NO A.C.O.E. JURISDICTIONAL 404 WETLANDS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE SCHEDULED WORK.
6. PRIOR TO ANY LAND DISTURBING ACTIVITIES COMMENCING, A SEDIMENT & EROSION CONTROL PERMIT SHALL BE SECURED THROUGH THE NC DENR DIVISION OF LAND RESOURCES, LAND QUALITY SECTION.
7. EXISTING VEGETATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE.
8. AN NCDOT RIGHT-OF-WAY ENCROACHMENT AGREEMENT SHALL BE SECURED PRIOR TO PERFORMING ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.
9. A WRITTEN EXCLUSION FROM NCDEQ DMLR WILL NEED TO BE ACQUIRED FOR STORMWATER MANAGEMENT AND SEDIMENTATION & EROSION CONTROL PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES.

LEGEND

SURFACE FEATURES:		GAS/POWER/TELEPHONE	
EXISTING	DESCRIPTION	SYMBOL	DESCRIPTION
---	BUILDING LINE (EXISTING)	△	PAD MOUNTED TRANSFORMER
...	DITCH CENTERLINE (EXIST.)	P	POWER VAULT
---	CURB/PAVEMENT/SIDEWALK (EX)	○	UTILITY POLE
---	FENCE (EXISTING)	○	POWER POLE
~	VEGETATION/TREELINE	⊖	UTILITY POLE ANCHOR
---	RETAINING WALL (EXISTING)	⊕	LIGHT POLE
---	CENTERLINE (EXISTING)	⊕	TELEPHONE PEDESTAL
---	CONTOUR (DEPRESSION)	T	TELEPHONE VAULT
---	CONTOUR (INDEX) (EXIST.)		
---	EASEMENT		
---	PROPERTY LINE (EXISTING)		
---	RIGHT-OF-WAY (CURRENT)		
---	BOUNDARY LINE		
---	EDGE OF PAVEMENT (EXISTING)		
UTILITIES (EXISTING):		SURVEY	
---	FIBER OPTIC (BURIED)	+	BENCH MARK
---	CABLE TELEVISION (BURIED)	○	BLOCK CORNER
---	FORCE MAIN	○	IRON PIPE
---	GAS	○	EX. IRON REBAR
---	POWER (AERIAL)	○	CONCRETE MONUMENT
---	POWER (BURIED)	⊕	MONUMENT (IN CASE)
---	SANITARY SEWER	×	SPOT ELEVATION
---	STORM DRAINAGE		
---	TELEPHONE (BURIED)		
---	TELEPHONE (AERIAL)		
---	WATER		
ROAD SURFACE MATERIAL		DRAINAGE	
---	EXISTING PAVEMENT/VEGETATION SCHEDULED FOR REMOVAL	□	STORM DRAIN CATCH BASIN
---	EXISTING CONCRETE SURFACE	□	STORM DRAIN INLET
---	PROPOSED CONCRETE SURFACE ADDITION (PLAN/PROFILE)	---	STORM DRAIN PIPE
		⊕	STORM DRAIN JUNCTION
		25 L.F. 12"	STORM PIPE (PROPOSED) DOUBLE LINE TO SIZE OF PIPE DIAMETER
LEGEND (CONT'D)		WATER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	DITCH CENTERLINE	○	GUARD POST
---	CURB (PROP)	⊕	FH
---	CURB/PAVEMENT/SIDEWALK	⊕	WATER VALVE
---	SILT FENCE/CONST. LIMITS	⊕	WM
---	CONTOUR (INDEX)		
---	GUARDRAIL		

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C1	COVER
C2	EXISTING FEATURES PLAN/ DEMOLITION PLAN
C3	EXISTING FEATURES PLAN/ DEMOLITION PLAN
C4	EXISTING FEATURES PLAN/ DEMOLITION PLAN
C5	PLAN/PROFILE STA 0+00 - 6+46.91
C6	PLAN/PROFILE STA 6+46.91 - 13+01.19
C7	PLAN/PROFILE STA 13+01.19 - 19+55.47
C8	PLAN/PROFILE STA 19+55.47 - 26+09.75
C9	PLAN/PROFILE STA 26+09.75 - 32+64.03
C10	PLAN/PROFILE STA 32+64.03 - 39+16.55
C11	PLAN/PROFILE STA 39+16.55 - 44+92.45
C12	MULTI-USE PATH CONSTRUCTION DETAILS
C13	MULTI-USE PATH CONSTRUCTION DETAILS
C14	SEDIMENTATION & EROSION CONTROL DETAILS
C15	SEDIMENTATION & EROSION CONTROL NOTES
C16	TRAFFIC CONTROL DETAILS
C17	TRAFFIC CONTROL DETAILS

NOTES: PERMIT DRAWINGS

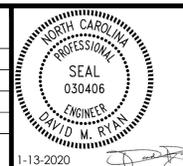
CAPITAL IMPROVEMENT PROJECT FY 19/20
PH 8C W. SIDE MULTI-USE PATH PLAN

DRAWING TITLE:
COVER SHEET

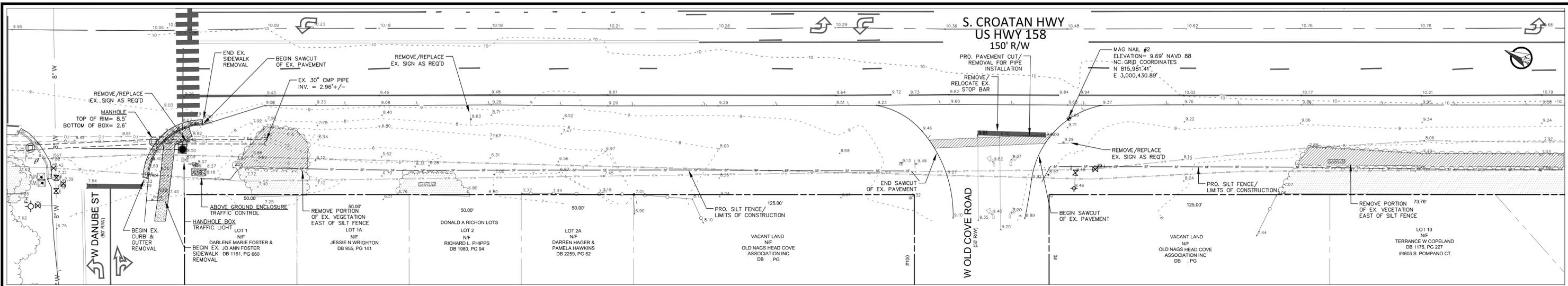
SCALE: HORIZONTAL: AS NOTED
VERTICAL:

DRAWING NO.: C-1 SHEET NO.: SHEET C1 OF 17

NO.	DATE	REVISION	APPROV'D DATE	APPROVALS

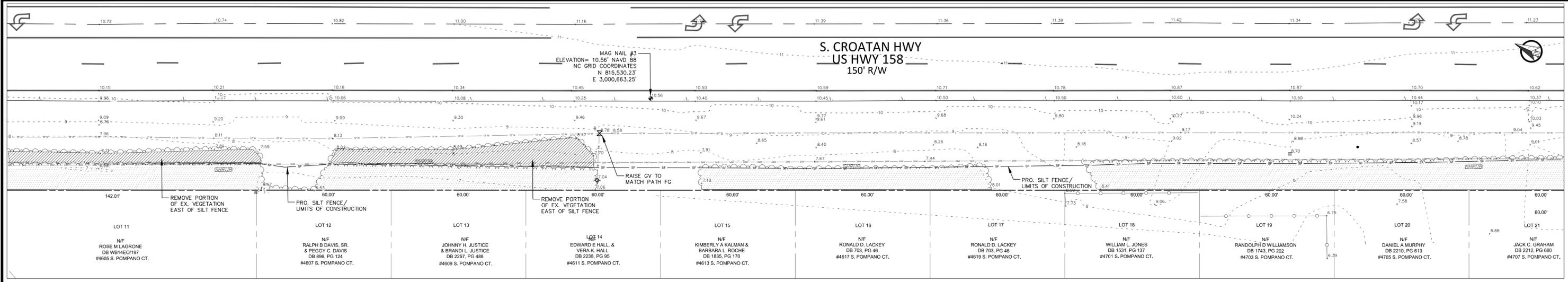


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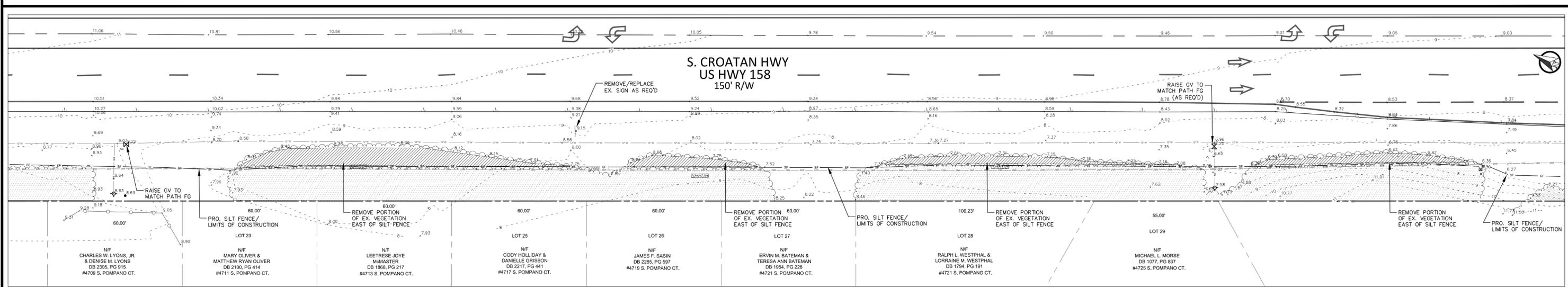
US HWY 158 WESTERN RIGHT-OF-WAY MARGIN
SCALE: HOR.: 1"=20' (W. DANUBE ST.) (PLAN VIEW)

CONTINUATION BELOW



US HWY 158 WESTERN RIGHT-OF-WAY MARGIN
SCALE: HOR.: 1"=20' (NAGS HEAD COVE) (PLAN VIEW)

CONTINUATION BELOW



US HWY 158 WESTERN RIGHT-OF-WAY MARGIN
SCALE: HOR.: 1"=20' (OB HOSPITAL) (PLAN VIEW)

CONTINUATION NEXT SHEET

NO.	DATE	REVISION	APPR'D DATE	APPROVALS

NAME	DATE
DRAWN BY: DMR	1-13-20
DESIGNED BY: DMR	1-13-20
CHECKED BY: DMR	1-13-20
RECORD DWG:	



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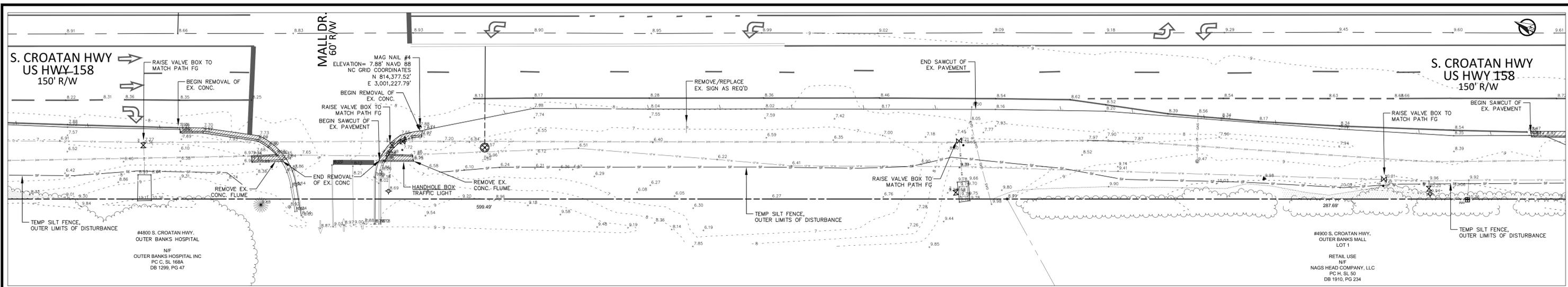
NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PH 8C W. SIDE MULTI-USE PATH PLAN

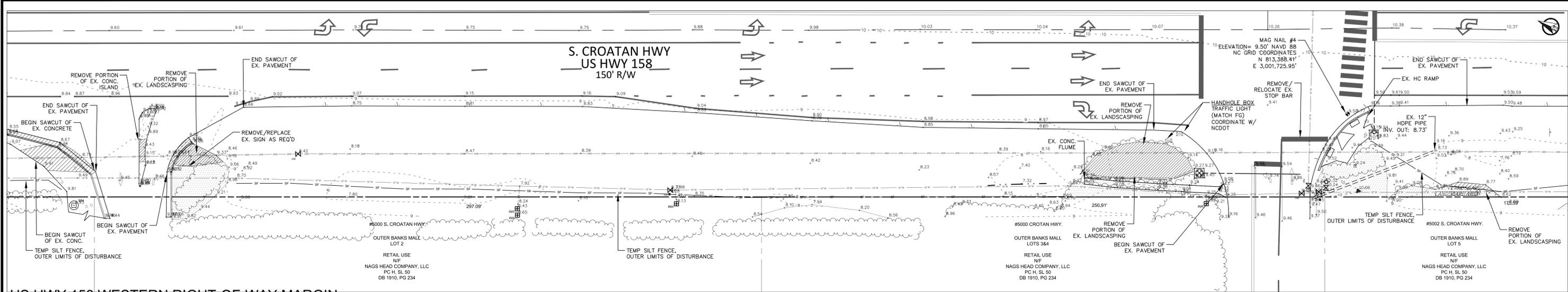
DRAWING TITLE: **EXISTING FEATURES PLAN/DEMOLITION PLAN**
SCALE: HORIZONTAL: 1" = 20'
VERTICAL:

SCALE: HORIZONTAL: 1" = 20'
VERTICAL:

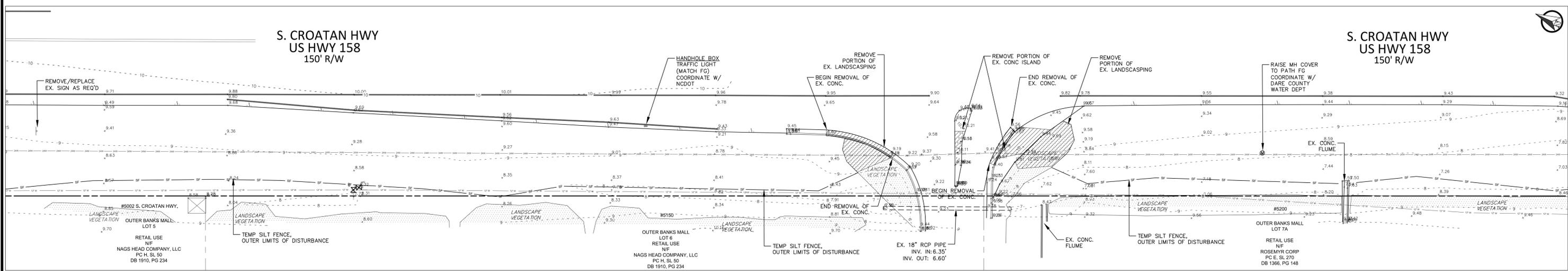
DRAWING NO.: C-2 SHEET NO.: SHEET 2 OF 17



US HWY 158 WESTERN RIGHT-OF-WAY MARGIN
 SCALE: HOR.: 1"=20' (OB HOSPITAL) (PLAN VIEW) CONTINUATION BELOW



US HWY 158 WESTERN RIGHT-OF-WAY MARGIN
 SCALE: HOR.: 1"=20' (OB MALL) (PLAN VIEW) CONTINUATION BELOW



US HWY 158 WESTERN RIGHT-OF-WAY MARGIN
 SCALE: HOR.: 1"=20' (OB MALL) (PLAN VIEW) CONTINUATION NEXT SHEET

NO.	DATE	REVISION	APPR'D DATE	APPROVALS

NAME	DATE
DRAWN BY: DMR	1-13-20
DESIGNED BY: DMR	1-13-20
CHECKED BY: DMR	1-13-20
RECORD DWG:	



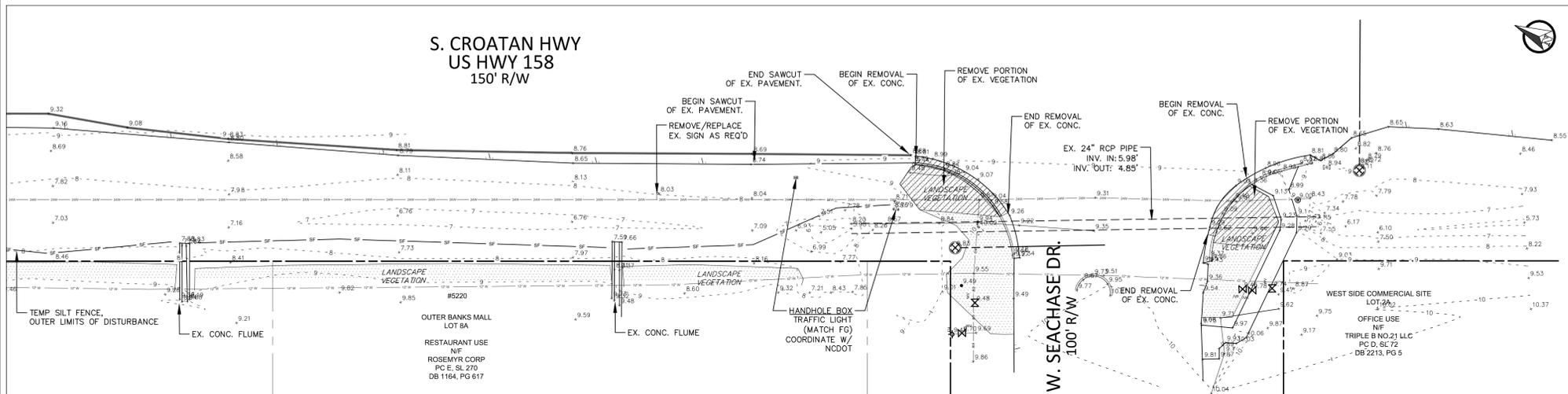
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 PH 8C W. SIDE MULTI-USE PATH PLAN

DRAWING TITLE: **EXISTING FEATURES PLAN/ DEMOLITION PLAN**
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL:
 DRAWING NO.: C-3 SHEET NO.: SHEET 3 OF 17

S. CROATAN HWY
US HWY 158
150' R/W



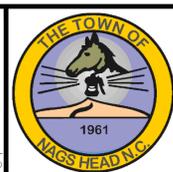
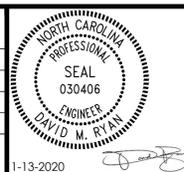
US HWY 158 WESTERN RIGHT-OF-WAY MARGIN

SCALE: HOR.: 1"=20' (W. SEACHASE DR.) (PLAN VIEW)

END OF PHASE/CONTINUATION AT BAYMEADOW DR.

NO.	DATE	REVISION	APPR'D DATE	APPROVALS

NAME	DATE
DRAWN BY: DMR	1-13-20
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CHECKED BY: DMR	1-13-20
RECORD DWG:	



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PH 8C W. SIDE MULTI-USE PATH PLAN

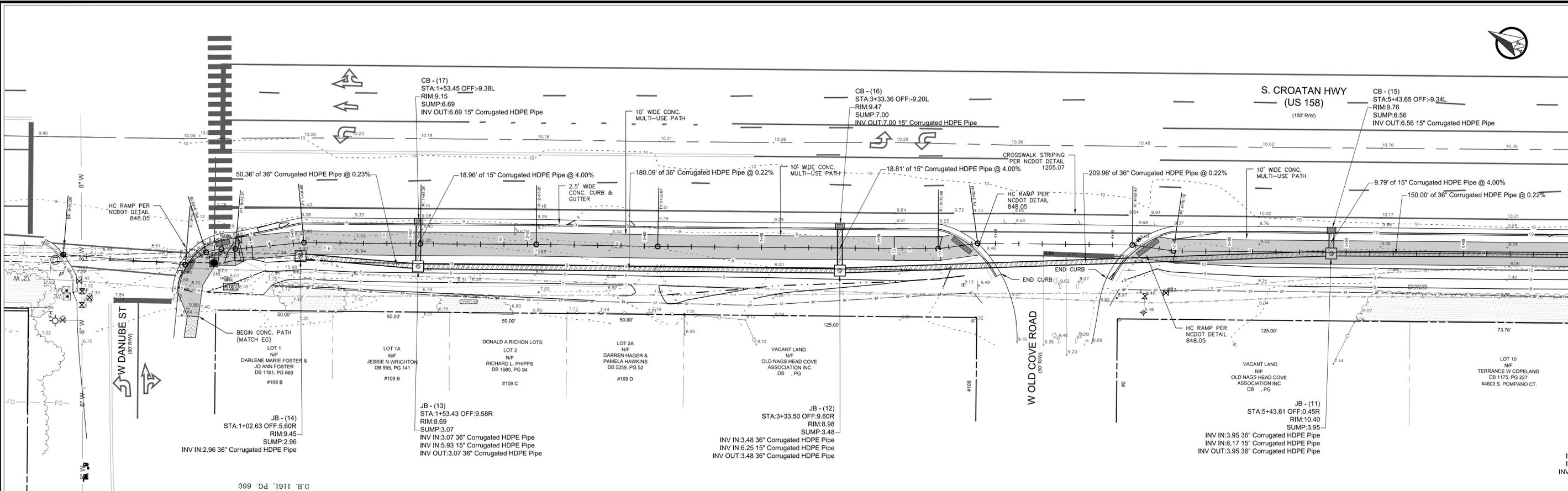
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DRAWING NO.: C-4 SHEET NO.: SHEET 4 OF 17

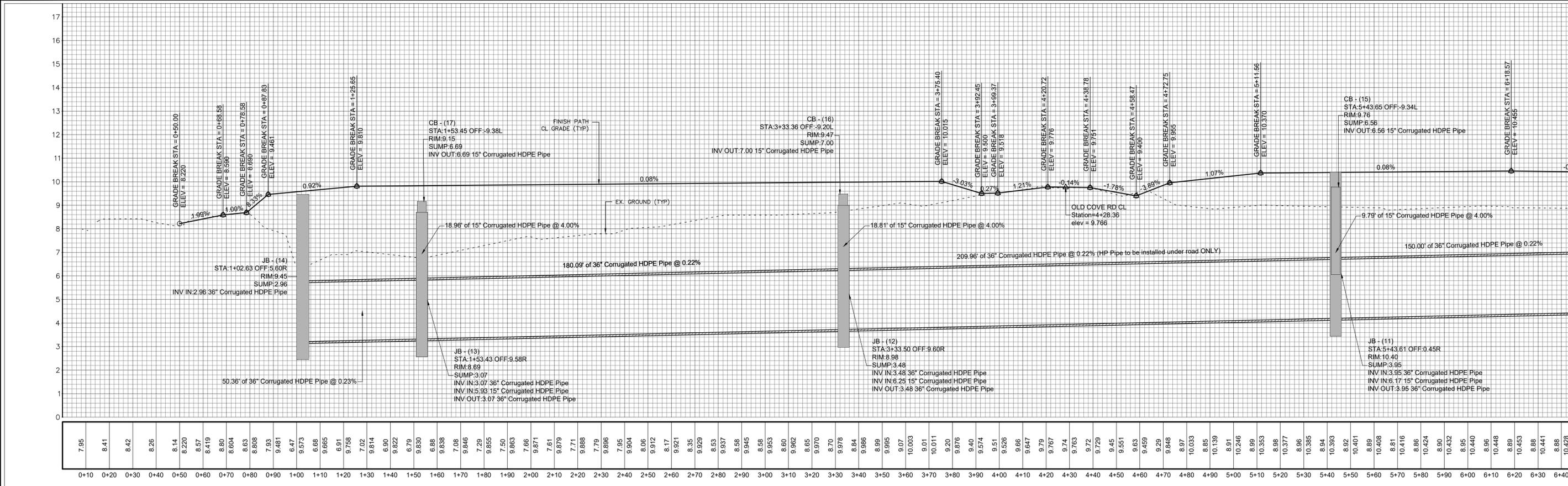
SCALE: HORIZONTAL: 1" = 20'
VERTICAL:



MATCH LINE - 1
AT STATION - 6+46.91
NEXT SHEET NUMBER: 6

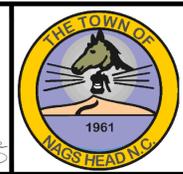
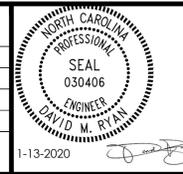


D.B. 1161, PG. 660



NO.	DATE	REVISION	APPROV. DATE

NAME	DATE
DRAWN BY: DMR	1-13-20
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CHECKED BY: DMR	1-13-20
RECORD DWG:	



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CAPITAL IMPROVEMENT PROJECT FY 19/20
PHASE 8C MULTI-USE PATH PLAN

DRAWING TITLE:
PLAN/PROFILE SHEET
STA 0+00 - 6+45

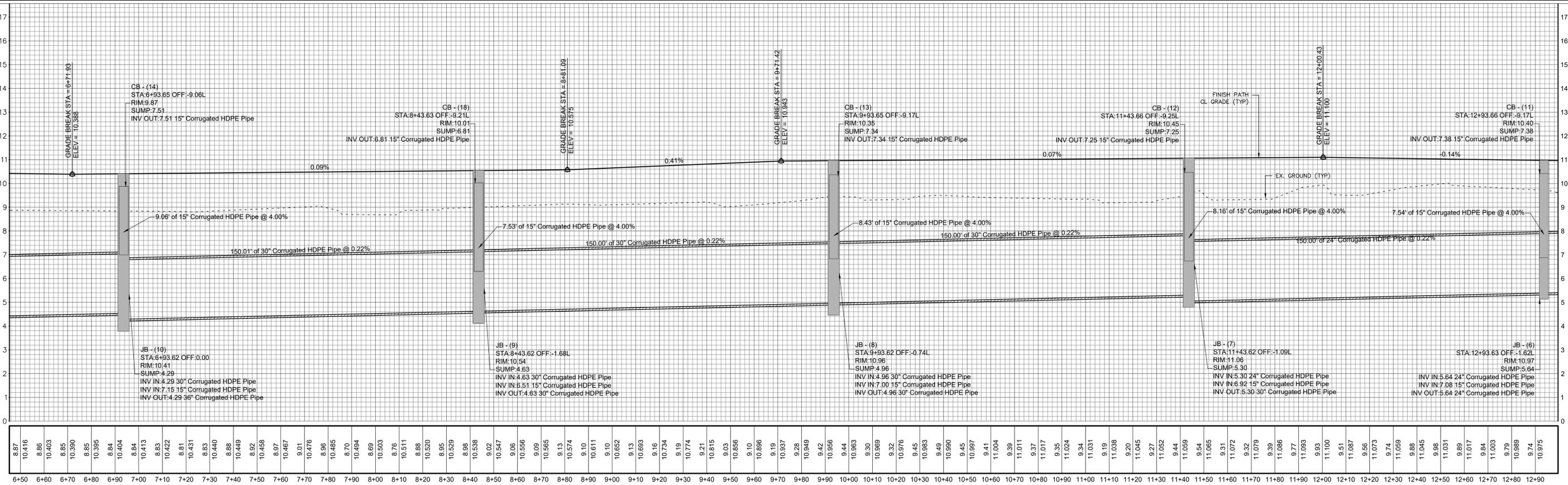
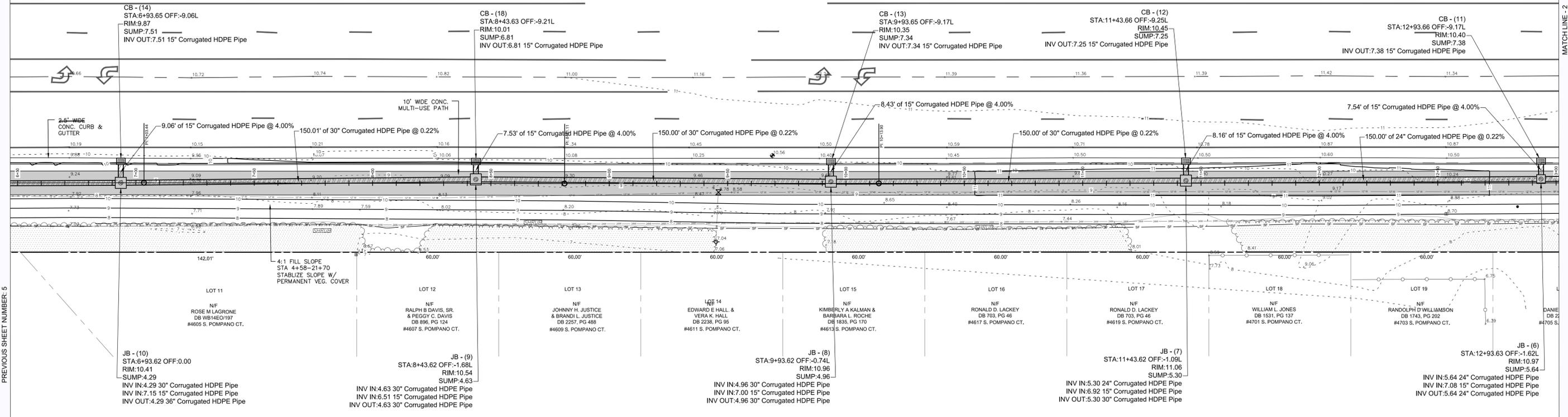
DRAWING NO.: C-5 SHEET NO.: SHEET 5 OF 17

SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 2'



MATCHLINE 2
AT STATION 13+01.19
NEXT SHEET NUMBER: 7

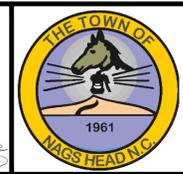
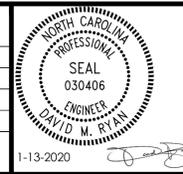
MATCHLINE - 1
AT STATION 6+48.91
PREVIOUS SHEET NUMBER: 5



8.87	10.416	8.86	10.403	8.85	10.390	8.85	10.385	8.84	10.404	8.84	10.413	8.83	10.440	8.83	10.422	8.81	10.431	8.83	10.440	8.86	10.449	8.92	10.458	8.97	10.467	9.01	10.476	8.96	10.485	8.70	10.494	8.69	10.503	8.76	10.511	8.88	10.520	8.95	10.529	8.98	10.538	9.02	10.547	9.06	10.556	9.09	10.565	9.13	10.574	9.10	10.611	9.10	10.652	9.13	10.683	9.16	10.734	9.19	10.774	9.21	10.815	9.03	10.856	9.10	10.896	9.19	10.937	9.28	10.949	9.42	10.956	9.44	10.963	9.30	10.969	9.32	10.976	9.45	10.983	9.49	10.990	9.45	10.997	9.41	11.004	9.39	11.011	9.37	11.017	9.35	11.024	9.34	11.031	9.19	11.038	9.20	11.045	9.27	11.052	9.44	11.059	9.54	11.065	9.31	11.072	9.32	11.079	9.39	11.086	9.77	11.093	9.93	11.100	9.51	11.107	9.84	11.103	9.79	11.099	9.74	10.975
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NO.	DATE	REVISION	APPROV. DATE

DRAWN BY:	NAME	DATE
DESIGNED BY:		
CHECKED BY:		
RECORD DWG:		



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NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
 PHASE 8C W. SIDE MULTI-USE PATH PLAN

DRAWING TITLE:
PLAN/PROFILE SHEET
 STA 6+45 - 13+00

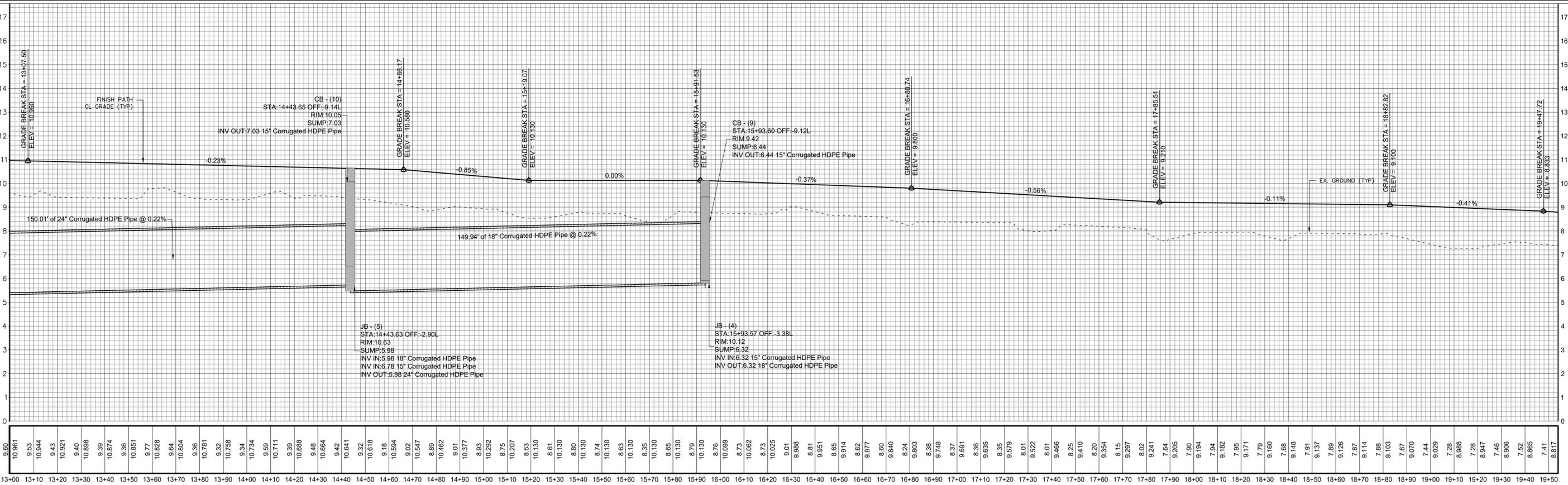
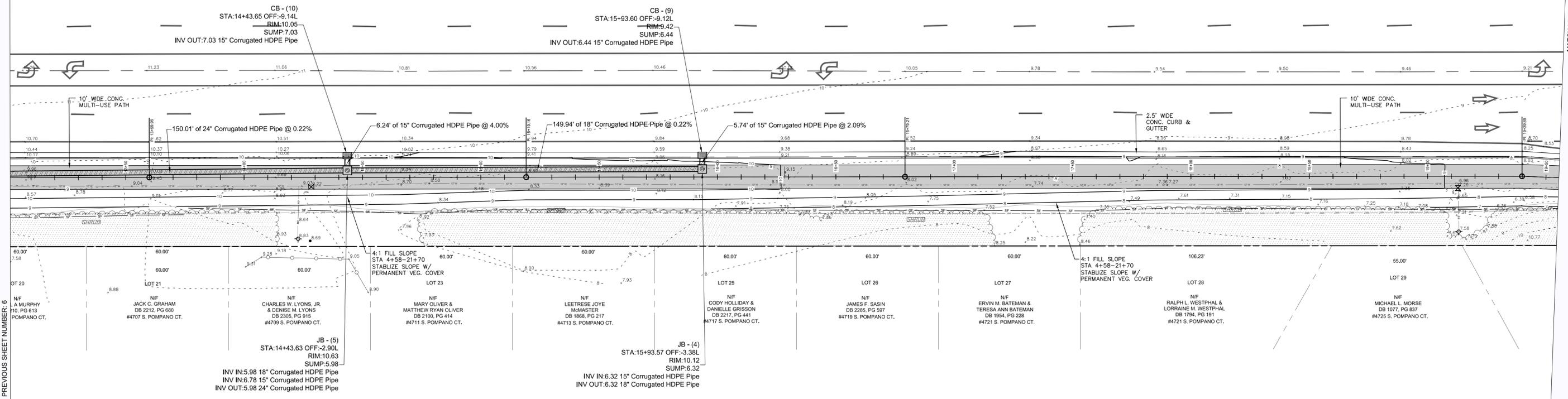
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 VERTICAL: 1" = 2'

DRAWING NO.: C-6 SHEET NO.: SHEET 6 OF 17



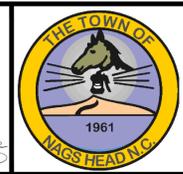
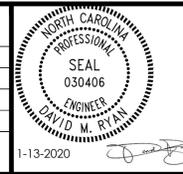
MATCH LINE - 3
AT STATION - 19+55.47
NEXT SHEET NUMBER: 8

MATCH LINE - 2
AT STATION - 13+01.19
PREVIOUS SHEET NUMBER: 6



NO.	DATE	REVISION	APPROVALS

NAME	DATE
DRAWN BY: DMR	1-13-2020
DESIGNED BY: DMR	1-13-2020
CHECKED BY: DMR	1-13-2020
RECORD DWG:	



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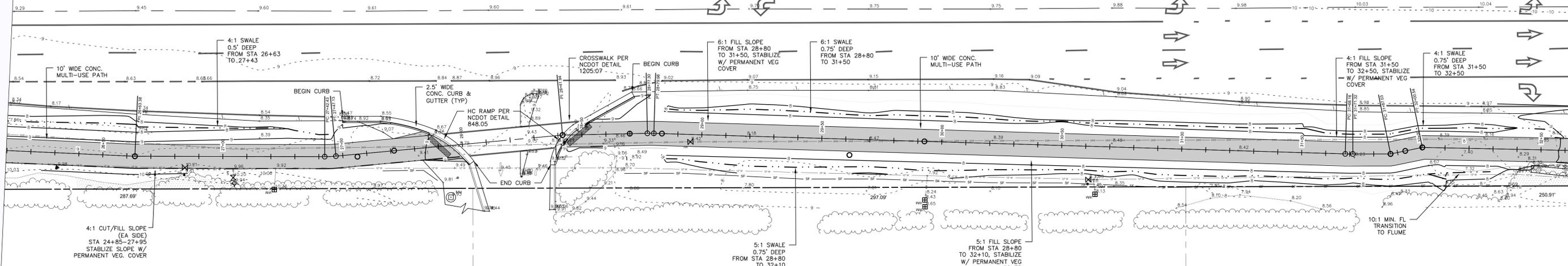
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PLAN/PROFILE SHEET
STA 13+00 - 19+55

DRAWING NO.: C-7 SHEET NO.: SHEET 7 OF 17

SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 2'

MATCH LINE - 5
AT STATION - 32+64.03
NEXT SHEET NUMBER 10

S. CROATAN HWY
(US 158)
(150' RW)



MATCH LINE - 4
AT STATION - 26+09.75
PREVIOUS SHEET NUMBER: 8

4:1 CUT/FILL SLOPE
(EA. SIDE)
STA 24+85-27+95
STABILIZE SLOPE W/
PERMANENT VEG. COVER

#4900 S. CROATAN HWY.
OUTER BANKS MALL
LOT 1

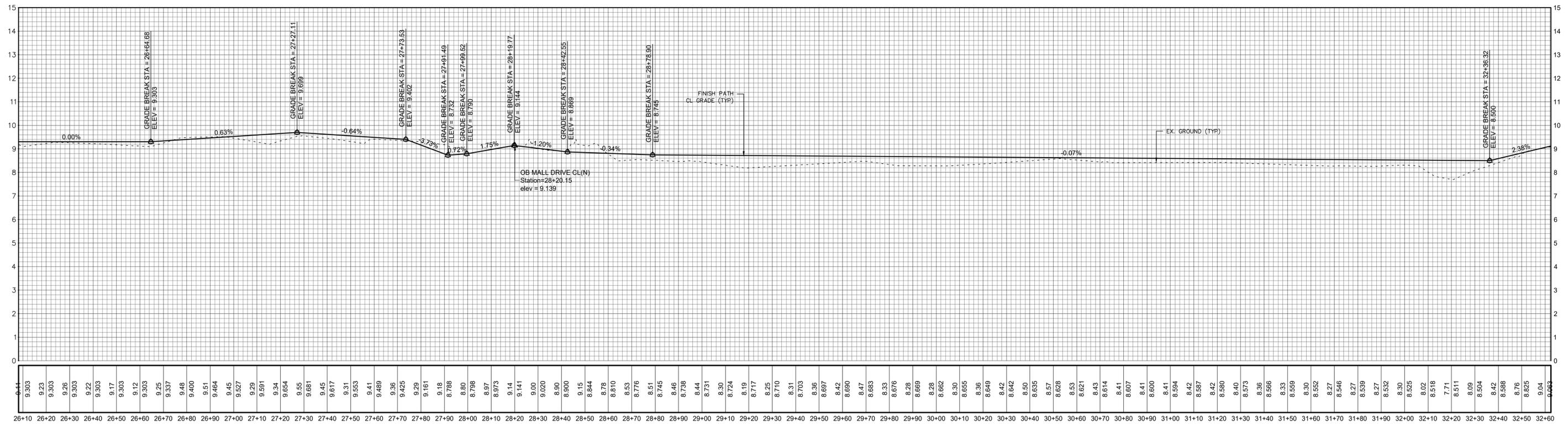
RETAIL USE
NIF
NAGS HEAD COMPANY, LLC
P.C.H. SL 50
DB 1910, PG 234

#5000 S. CROATAN HWY.
OUTER BANKS MALL
LOT 2

RETAIL USE
NIF
NAGS HEAD COMPANY, LLC
P.C.H. SL 50
DB 1910, PG 234

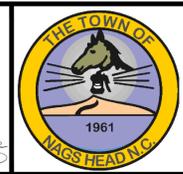
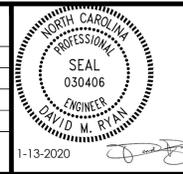
#5000 CROATAN HWY.
OUTER BANKS MALL
LOTS 3&4

RETAIL USE
NIF
NAGS HEAD COMPANY, LLC
P.C.H. SL 50
DB 1910, PG 234



NO.	DATE	REVISION	APPROV. DATE	APPROVALS

NAME	DATE
DRAWN BY: DMR	1-13-20
DESIGNED BY: DMR	1-13-20
CHECKED BY: DMR	1-13-20
RECORD DWG:	



TOWN OF NAGS HEAD
DEPARTMENT OF ADMINISTRATION
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.6221 • www.nagsheadnc.gov

NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PHASE 8C W. SIDE MULTI-USE PATH

DRAWING TITLE:
PLAN/PROFILE SHEET
STA 26+09 - 32+63

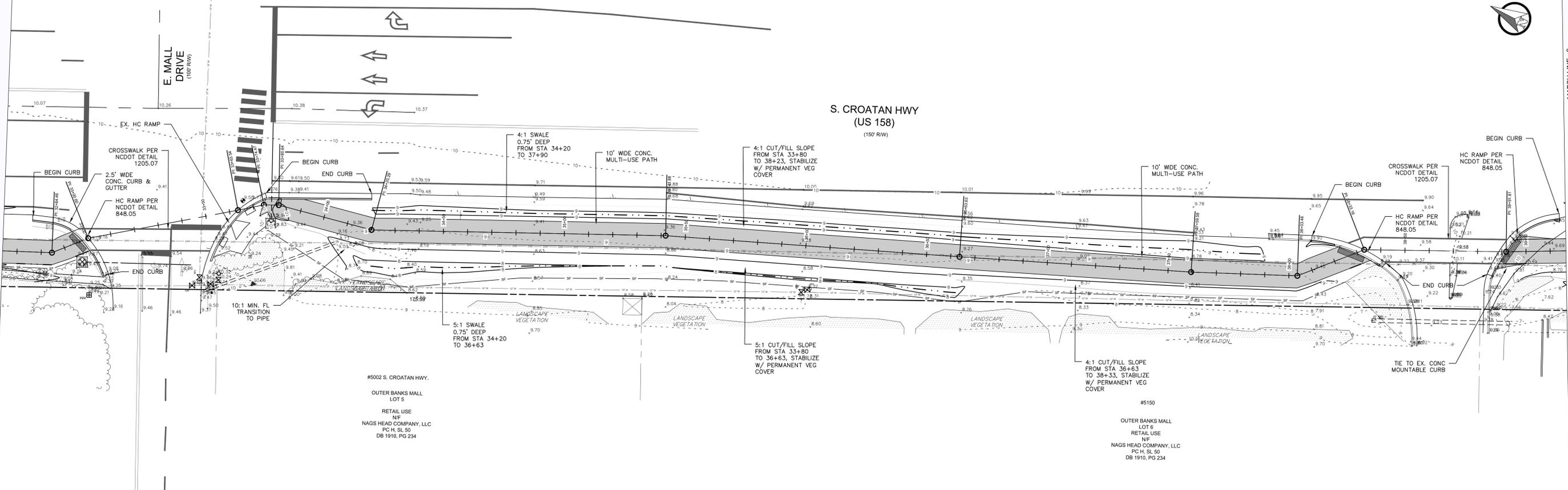
DRAWING NO.: C-9 SHEET NO.: SHEET 9 OF 17

SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 2'



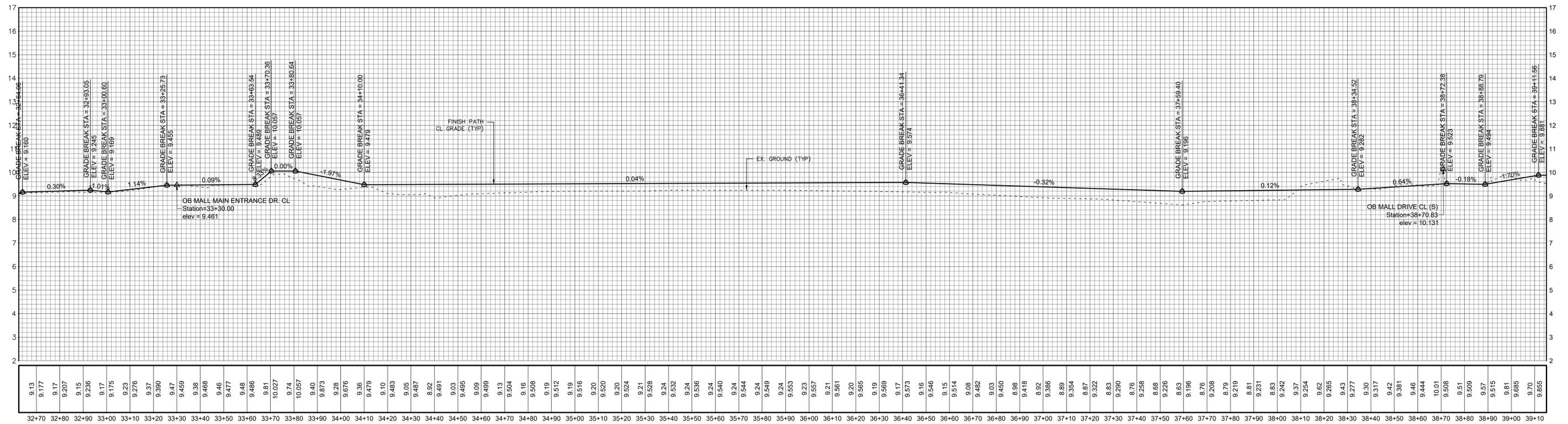
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AT STATION - 39+16.55
NEXT SHEET NUMBER: 11

MATCHLINE - 5
AT STATION - 32+64.03
PREVIOUS SHEET NUMBER: 9



#5002 S. CROATAN HWY.
OUTER BANKS MALL
LOT 5
RETAIL USE
NIF
NAGS HEAD COMPANY, LLC
PC H, SL 50
DB 1910, PG 234

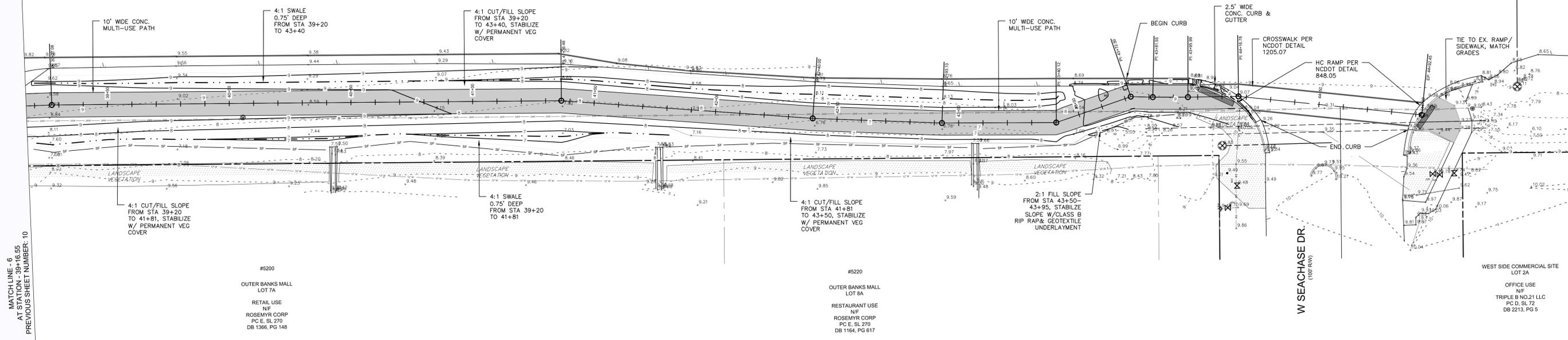
#5150
OUTER BANKS MALL
LOT 6
RETAIL USE
NIF
NAGS HEAD COMPANY, LLC
PC H, SL 50
DB 1910, PG 234



9.13	9.17	9.207	9.236	9.276	9.37	9.390	9.47	9.459	9.468	9.46	9.477	9.48	9.486	9.81	10.027	9.74	10.057	9.873	9.28	9.676	9.36	9.479	9.10	9.483	9.05	9.487	8.92	9.491	9.03	9.495	9.09	9.499	9.13	9.504	9.16	9.508	9.19	9.512	9.19	9.516	9.20	9.520	9.20	9.524	9.24	9.528	9.24	9.532	9.24	9.536	9.24	9.540	9.24	9.544	9.24	9.549	9.24	9.553	9.23	9.557	9.21	9.561	9.20	9.565	9.19	9.569	9.17	9.573	9.16	9.576	9.15	9.579	9.14	9.582	9.08	9.586	9.03	9.590	8.98	9.594	8.92	9.597	8.89	9.599	8.87	9.602	8.83	9.605	8.76	9.608	8.68	9.611	8.63	9.614	8.58	9.617	8.53	9.620	8.48	9.623	8.43	9.626	8.38	9.629	8.33	9.632	8.28	9.635	8.23	9.638	8.18	9.641	8.13	9.644	8.08	9.647	8.03	9.650	7.98	9.653	7.93	9.656	7.88	9.659	7.83	9.662	7.78	9.665	7.73	9.668	7.68	9.671	7.63	9.674	7.58	9.677	7.53	9.680	7.48	9.683	7.43	9.686	7.38	9.689	7.33	9.692	7.28	9.695	7.23	9.698	7.18	9.701	7.13	9.704	7.08	9.707	7.03	9.710	6.98	9.713	6.93	9.716	6.88	9.719	6.83	9.722	6.78	9.725	6.73	9.728	6.68	9.731	6.63	9.734	6.58	9.737	6.53	9.740	6.48	9.743	6.43	9.746	6.38	9.749	6.33	9.752	6.28	9.755	6.23	9.758	6.18	9.761	6.13	9.764	6.08	9.767	6.03	9.770	5.98	9.773	5.93	9.776	5.88	9.779	5.83	9.782	5.78	9.785	5.73	9.788	5.68	9.791	5.63	9.794	5.58	9.797	5.53	9.800	5.48	9.803	5.43	9.806	5.38	9.809	5.33	9.812	5.28	9.815	5.23	9.818	5.18	9.821	5.13	9.824	5.08	9.827	5.03	9.830	4.98	9.833	4.93	9.836	4.88	9.839	4.83	9.842	4.78	9.845	4.73	9.848	4.68	9.851	4.63	9.854	4.58	9.857	4.53	9.860	4.48	9.863	4.43	9.866	4.38	9.869	4.33	9.872	4.28	9.875	4.23	9.878	4.18	9.881	4.13	9.884	4.08	9.887	4.03	9.890	3.98	9.893	3.93	9.896	3.88	9.899	3.83	9.902	3.78	9.905	3.73	9.908	3.68	9.911	3.63	9.914	3.58	9.917	3.53	9.920	3.48	9.923	3.43	9.926	3.38	9.929	3.33	9.932	3.28	9.935	3.23	9.938	3.18	9.941	3.13	9.944	3.08	9.947	3.03	9.950	2.98	9.953	2.93	9.956	2.88	9.959	2.83	9.962	2.78	9.965	2.73	9.968	2.68	9.971	2.63	9.974	2.58	9.977	2.53	9.980	2.48	9.983	2.43	9.986	2.38	9.989	2.33	9.992	2.28	9.995	2.23	9.998	2.18	10.001	2.13	10.004	2.08	10.007	2.03	10.010	1.98	10.013	1.93	10.016	1.88	10.019	1.83	10.022	1.78	10.025	1.73	10.028	1.68	10.031	1.63	10.034	1.58	10.037	1.53	10.040	1.48	10.043	1.43	10.046	1.38	10.049	1.33	10.052	1.28	10.055	1.23	10.058	1.18	10.061	1.13	10.064	1.08	10.067	1.03	10.070	0.98	10.073	0.93	10.076	0.88	10.079	0.83	10.082	0.78	10.085	0.73	10.088	0.68	10.091	0.63	10.094	0.58	10.097	0.53	10.100	0.48	10.103	0.43	10.106	0.38	10.109	0.33	10.112	0.28	10.115	0.23	10.118	0.18	10.121	0.13	10.124	0.08	10.127	0.03	10.130	0.00	10.133	-0.05	10.136	-0.10	10.139	-0.15	10.142	-0.20	10.145	-0.25	10.148	-0.30	10.151	-0.35	10.154	-0.40	10.157	-0.45	10.160	-0.50	10.163	-0.55	10.166	-0.60	10.169	-0.65	10.172	-0.70	10.175	-0.75	10.178	-0.80	10.181	-0.85	10.184	-0.90	10.187	-0.95	10.190	-1.00	10.193	-1.05	10.196	-1.10	10.199	-1.15	10.202	-1.20	10.205	-1.25	10.208	-1.30	10.211	-1.35	10.214	-1.40	10.217	-1.45	10.220	-1.50	10.223	-1.55	10.226	-1.60	10.229	-1.65	10.232	-1.70	10.235	-1.75	10.238	-1.80	10.241	-1.85	10.244	-1.90	10.247	-1.95	10.250	-2.00	10.253	-2.05	10.256	-2.10	10.259	-2.15	10.262	-2.20	10.265	-2.25	10.268	-2.30	10.271	-2.35	10.274	-2.40	10.277	-2.45	10.280	-2.50	10.283	-2.55	10.286	-2.60	10.289	-2.65	10.292	-2.70	10.295	-2.75	10.298	-2.80	10.301	-2.85	10.304	-2.90	10.307	-2.95	10.310	-3.00	10.313	-3.05	10.316	-3.10	10.319	-3.15	10.322	-3.20	10.325	-3.25	10.328	-3.30	10.331	-3.35	10.334	-3.40	10.337	-3.45	10.340	-3.50	10.343	-3.55	10.346	-3.60	10.349	-3.65	10.352	-3.70	10.355	-3.75	10.358	-3.80	10.361	-3.85	10.364	-3.90	10.367	-3.95	10.370	-4.00	10.373	-4.05	10.376	-4.10	10.379	-4.15	10.382	-4.20	10.385	-4.25	10.388	-4.30	10.391	-4.35	10.394	-4.40	10.397	-4.45	10.400	-4.50	10.403	-4.55	10.406	-4.60	10.409	-4.65	10.412	-4.70	10.415	-4.75	10.418	-4.80	10.421	-4.85	10.424	-4.90	10.427	-4.95	10.430	-5.00	10.433	-5.05	10.436	-5.10	10.439	-5.15	10.442	-5.20	10.445	-5.25	10.448	-5.30	10.451	-5.35	10.454	-5.40	10.457	-5.45	10.460	-5.50	10.463	-5.55	10.466	-5.60	10.469	-5.65	10.472	-5.70	10.475	-5.75	10.478	-5.80	10.481	-5.85	10.484	-5.90	10.487	-5.95	10.490	-6.00	10.493	-6.05	10.496	-6.10	10.499	-6.15	10.502	-6.20	10.505	-6.25	10.508	-6.30	10.511	-6.35	10.514	-6.40	10.517	-6.45	10.520	-6.50	10.523	-6.55	10.526	-6.60	10.529	-6.65	10.532	-6.70	10.535	-6.75	10.538	-6.80	10.541	-6.85	10.544	-6.90	10.547	-6.95	10.550	-7.00	10.553	-7.05	10.556	-7.10	10.559	-7.15	10.562	-7.20	10.565	-7.25	10.568	-7.30	10.571	-7.35	10.574	-7.40	10.577	-7.45	10.580	-7.50	10.583	-7.55	10.586	-7.60	10.589	-7.65	10.592	-7.70	10.595	-7.75	10.598	-7.80	10.601	-7.85	10.604	-7.90	10.607	-7.95	10.610	-8.00	10.613	-8.05	10.616	-8.10	10.619	-8.15	10.622	-8.20	10.625	-8.25	10.628	-8.30	10.631	-8.35	10.634	-8.40	10.637	-8.45	10.640	-8.50	10.643	-8.55	10.646	-8.60	10.649	-8.65	10.652	-8.70	10.655	-8.75	10.658	-8.80	10.661	-8.85	10.664	-8.90	10.667	-8.95	10.670	-9.00	10.673	-9.05	10.676	-9.10	10.679	-9.15	10.682	-9.20	10.685	-9.25	10.688	-9.30	10.691	-9.35	10.694	-9.40	10.697	-9.45	10.700	-9.50	10.703	-9.55	10.706	-9.60	10.709	-9.65	10.712	-9.70	10.715	-9.75	10.718	-9.80	10.721	-9.85	10.724	-9.90	10.727	-9.95	10.730	-10.00	10.733	-10.05	10.736	-10.10	10.739	-10.15	10.742	-10.20	10.745	-10.25	10.748	-10.30	10.751	-10.35	10.754	-10.40	10.757	-10.45	10.760	-10.50	10.763	-10.55	10.766	-10.60	10.769	-10.65	10.772	-10.70	10.775	-10.75	10.778	-10.80	10.781	-10.85	10.784	-10.90	10.787	-10.95	10.790	-11.00	10.793	-11.05	10.796	-11.10	10.799	-11.15	10.802	-11.20	10.805	-11.25	10.808	-11.30	10.811	-11.35	10.814	-11.40	10.817	-11.45	10.820	-11.50	10.823	-11.55	10.826	-11.60	10.829	-11.65	10.832	-11.70	10.835	-11.75	10.838	-11.80	10.841	-11.85	10.844	-11.90	10.847	-11.95	10.850	-12.00	10.853	-12.05	10.856	-12.10	10.859	-12.15	10.862	-12.20	10.865	-12.25	10.868	-12.30	10.871	-12.35	10.874	-12.40	10.877	-12.45	10.880	-12.50	10.883	-12.55	10.886	-12.60	10.889	-12.65	10.892	-12.70	10.895	-12.75	10.898	-12.80	10.901	-12.85	10.904	-12.90	10.907	-12.95	10.910	-13.00	10.913	-13.05	10.916	-13.10	10.919	-13.15	10.922	-13.20	10.925	-13.25	10.928	-13.30	10.931	-13.35	10.934	-13.40	10.937	-13.45	10.940	-13.50	10.943	-13.55	10.946	-13.60	10.949	-13.65	10.952	-13.70	10.955	-13.75	10.958	-13.80	10.961	-13.85	10.964	-13.90	10.967	-13.95	10.970	-14.00	10.973	-14.05	10.976	-14.10	10.979	-14.15	10.982	-14.20	10.985	-14.25	10.988	-14.30	10.991	-14.35	10.994	-14.40	10.997	-14.45	10.100	-14.50	10.103	-14.55	10.106	-14.60	10.109	-14.65	10.112	-14.70	10.115	-14.75	10.118	-14.80	10.121	-14.85	10.124	-14.90	10.127	-14.95	10.130	-15.00	10.133	-15.05	10.136	-15.10	10.139	-15.15	10.142	-15.20	10.145	-15.25	10.148	-15.30	10.151	-15.35	10.154	-15.40	10.157	-15.45	10.160	-15.50	10.163	-15.55	10.166	-15.60	10.169	-15.65	10.172	-15.70	10.175	-15.75	10.178	-15.80	10.181	-15.85	10.184	-15.90	10.187	-15.95	10.190	-16.00	10.193	-16.05	10.196	-16.10	10.199	-16.15	10.202	-16.20	10.205	-16.25	10.208	-16.30	10.211	-16.35	10.214	-16.40	10.217	-16.45	10.220	-16.50	10.223	-16.55	10.226	-16.60	10.229	-16.65	10.232	-16.70	10.235	-16.75	10.238	-16.80	10.241	-16.85	10.244	-16.90	10.247	-16.95	10.2
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S. CROATAN HWY
(US 158)
(150' R/W)

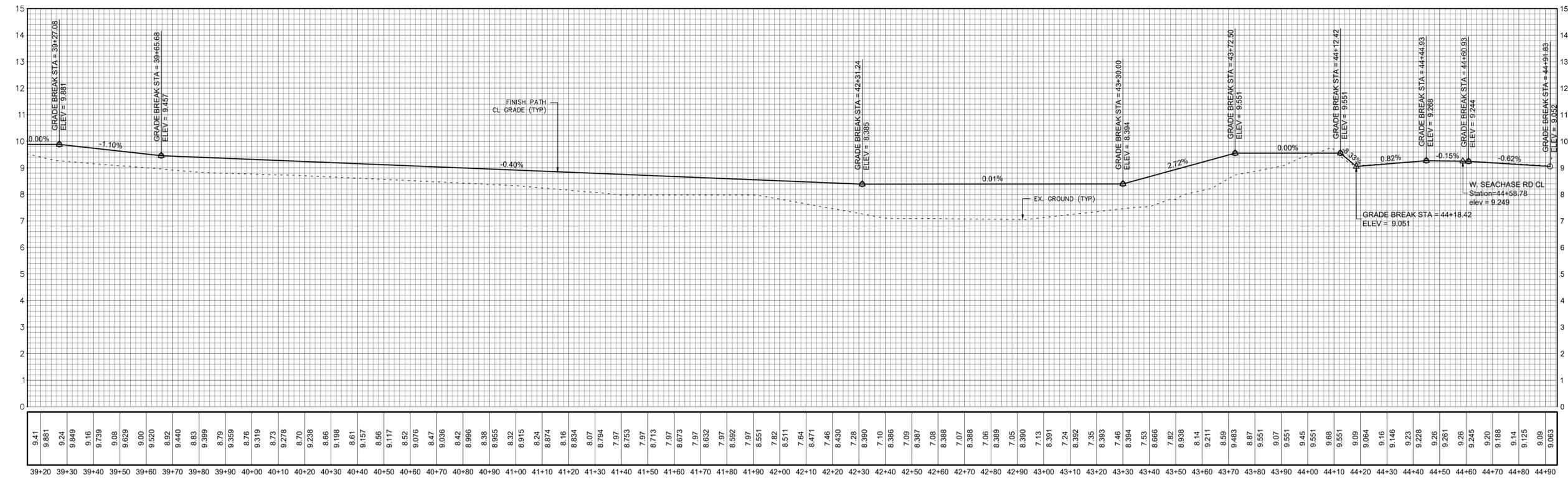


MATCHLINE - 6
AT STATION 38+16.55
PREVIOUS SHEET NUMBER: 10

#5200
OUTER BANKS MALL
LOT 7A
RETAIL USE
N/F
ROSEMYR CORP
P.O. E. SL 270
DB 1366, PG 148

#5220
OUTER BANKS MALL
LOT 8A
RESTAURANT USE
N/F
ROSEMYR CORP
P.O. E. SL 270
DB 1164, PG 817

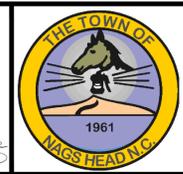
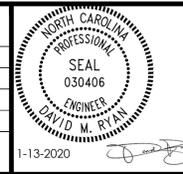
WEST SIDE COMMERCIAL SITE
LOT 2A
OFFICE USE
N/F
TRIPLE B NO.21 LLC
P.O. D. SL 72
DB 2213, PG 5



9.41	9.881	39+20	9.24	9.849	39+30	8.73	9.278	40+10	8.66	9.238	40+30	8.61	9.157	40+40	8.56	9.117	40+50	8.52	9.076	40+60	8.47	9.036	40+70	8.42	8.996	40+80	8.38	8.955	40+90	8.32	8.915	41+00	8.24	8.874	41+10	8.16	8.834	41+20	8.07	8.794	41+30	7.97	8.753	41+40	7.97	8.713	41+50	7.97	8.673	41+60	7.97	8.632	41+70	7.97	8.592	41+80	7.97	8.551	41+90	7.82	8.511	42+00	7.64	8.471	42+10	7.46	8.430	42+20	7.28	8.390	42+30	7.10	8.350	42+40	7.09	8.310	42+50	7.08	8.270	42+60	7.07	8.230	42+70	7.06	8.190	42+80	7.05	8.150	42+90	7.13	8.110	43+00	7.24	8.070	43+10	7.35	8.030	43+20	7.46	7.990	43+30	7.53	7.950	43+40	7.62	7.910	43+50	7.82	7.870	43+60	8.14	7.830	43+70	8.211	7.790	43+80	8.59	7.750	43+90	8.87	7.710	44+00	9.07	7.670	44+10	9.45	7.630	44+20	9.68	7.590	44+30	9.51	7.550	44+40	9.09	7.510	44+50	9.064	7.470	44+60	9.16	7.430	44+70	9.23	7.390	44+80	9.228	7.350	44+90	9.26	7.310	44+95
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NO.	DATE	REVISION

NAME	DATE
DRAWN BY: DMR	1-13-20
DESIGNED BY: DMR	1-13-20
CHECKED BY: DMR	1-13-20
RECORD DWG:	



TOWN OF NAGS HEAD
DEPARTMENT OF ADMINISTRATION
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.6221 • www.nagsheadnc.gov

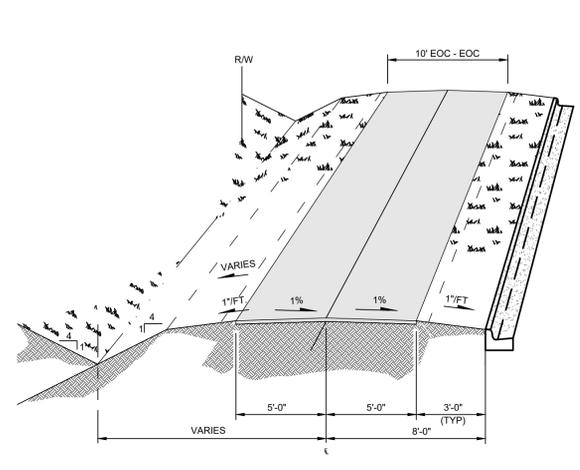
NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PHASE 8C W. SIDE MULTI-USE PATH PLAN

DRAWING TITLE:
PLAN/PROFILE SHEET
STA 39+16 - 44+95

SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=2'

DRAWING NO.: C-11 SHEET NO.: SHEET 11 OF 17

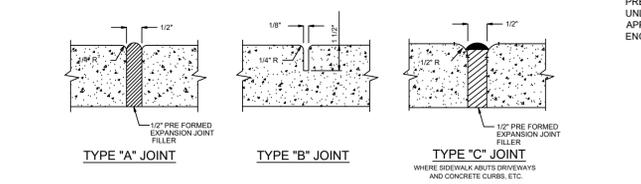
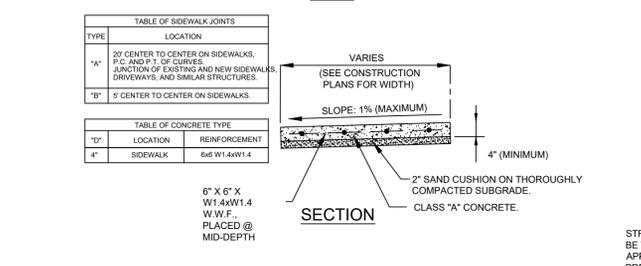
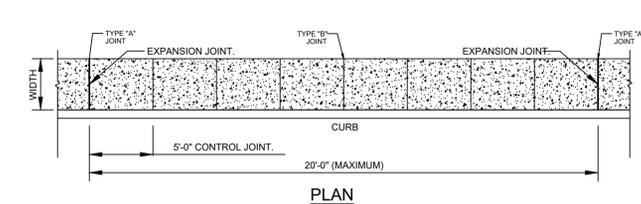


MULTI-USE PATH DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

- GENERAL NOTES**
- ACCESS TO EGRESS SHALL BE BY PUBLIC RIGHT-OF-WAYS AND UTILITY EASEMENTS. OTHER ACCESS LOCATIONS REQUIRED SHALL BE SECURED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE REQUIRED TO INCLUDE CONSTRUCTION ENTRANCES, SILT FENCING, RESTORATION, ETC. ADDITIONAL MEASURES SHALL BE INCLUDED AS PART OF A SUPPLEMENTAL EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR.
 - THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK.
 - CONTRACTOR SHALL MAINTAIN A NEAT AND CLEAN JOB-SITE TO INCLUDE STAGING/STORAGE AREAS AS FOLLOWS:
 - PERFORM DUST CONTROL BY WATERING DAILY OR AS DIRECTED BY THE ENGINEER.
 - SWEEP STREETS A MINIMUM OF ONCE WEEKLY (FRIDAY) OR AS DIRECTED BY THE ENGINEER.
 - BLADE, LEVEL AND RE-COMPACT ALL EXPOSED TRENCHES WEEKLY (OR AS DIRECTED BY THE ENGINEER) TO PRODUCE A SMOOTH "RIDE".
 - PERFORM DAILY CLEAN-UP OF ALL DIRT, DEBRIS AND SCRAP MATERIALS.
 - REMOVE EXCESS EQUIPMENT, MATERIALS, TOOLS, ETC. NOT NEEDED.
 - EXCESS SUITABLE SOIL EXCAVATED DURING CONSTRUCTION SHALL BE STOCKPILED FOR USE ON THE PROJECT OR DISPOSED OF OFF-SITE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT BE ALLOWED TO STOCKPILE MATERIALS OR EXCESS MATERIALS IN THE STREET RIGHT-OF-WAYS AT ANY TIME. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT AND SUITABLE STOCKPILE AREA AND LOCATION AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO SECURE THE SITE AND PROTECT THE GENERAL PUBLIC AND COMPLY WITH ALL OSHA REGULATIONS. JOB SITE SAFETY IS THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. OPEN EXCAVATION LEFT UNATTENDED OVER NIGHT IS NOT ACCEPTABLE AND SHALL BE FILLED IMMEDIATELY.
 - CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. NO SEPARATE PAYMENT UNLESS OTHERWISE INDICATED.
 - CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE FENCES ARE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL COORDINATE FENCE REMOVAL OR REINSTALLATION WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO REMOVAL. CONTRACTOR SHALL REINSTALL ALL SHEDS, FENCES, ETC. TO AS GOOD OR BETTER THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED.
 - CONTRACTOR SHALL REPLACE ALL DISTURBED MAILBOXES, SIGNS, ETC. DISTURBED DURING CONSTRUCTION WITHIN 24 HOURS OF DISTURBANCE. PERMANENT ROAD SIGNAGE DISTURBED SHALL BE REPLACED IMMEDIATELY AND IF NECESSARY ROADWAY SIGNS SHALL BE TEMPORARILY INSTALLED IN THE LOCATION AND EXPENT WITH THE MUTCD TO PROVIDE CONTINUOUS TRAFFIC AWARENESS OF ROADWAY CONDITIONS. (NO SEPARATE PAYMENT).
 - CONTRACTOR SHALL PROVIDE SECURITY FENCING, SECURITY GUARD, AND ANY AND ALL OTHER MEASURES CONTRACTOR DEEMS NECESSARY TO PROTECT EQUIPMENT AND MATERIALS STORED ON THE PROJECT. (NO SEPARATE PAYMENT).
 - WHERE CONTRACTOR CEASES WORK OPERATIONS FOR A 72 HOUR PERIOD OR LONGER, SUCH AS HOLIDAYS, ETC., THE FOLLOWING SHALL BE ACCOMPLISHED PRIOR TO THE WORK STOPPAGE:
 - CONTRACTOR SHALL STORE ALL EQUIPMENT IN THE CONTRACTOR STAGING AREA OR OFF SITE.
 - THE CONTRACTOR SHALL SWEEP ALL STREETS, PERFORM GENERAL CLEANUP AND SHALL PERFORM MAINTENANCE ON ALL EXPOSED PATHWAYS.
 - CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.
 - CONTRACTOR SHALL STORE ALL MATERIALS IN THE CONTRACTOR STAGING AREA 72 HOURS PRIOR TO INCORPORATING INTO THE WORK TO REDUCE OBSTRUCTIONS TO TRAFFIC AND INCONVENIENCE TO RESIDENTS. WHERE UTILITIES ARE BEING CONSTRUCTED IN EASEMENTS OUT OF TRAFFIC AREAS CONTRACTOR MAY STORE MATERIALS AHEAD OF CONSTRUCTION AT A DISTANCE NOT GREATER THAN 1800 FEET UNLESS OTHERWISE INDICATED.
 - AT THE PROPERTY OWNERS REQUEST, THE CONTRACTOR SHALL DIG UP EXISTING SHRUBS AND BUSHES WITHIN UTILITY EASEMENT TO BE DISTURBED BY CONSTRUCTION AND SET OUTSIDE THE UTILITY EASEMENT AT A LOCATION DETERMINED BY THE PROPERTY OWNER (NO SEPARATE PAYMENT). PROPERTY OWNER WILL BE RESPONSIBLE FOR REPLANTING SHRUBS AND BUSHES SO REMOVED, AND SHALL BE RESPONSIBLE FOR ESTABLISHING GROWTH. IF NO RECORD PLANS IS MADE BY THE PROPERTY OWNER, DISTURBED SHRUBS AND BUSHES SHALL BE REMOVED AND DISPOSED OF OFF-SITE UNLESS OTHERWISE INDICATED.
 - CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. CONTRACTOR SHALL LIMIT TREE BUSH CLEARING IN THE TEMPORARY EASEMENTS, BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY ABSOLUTELY NECESSARY FOR CONSTRUCTION.

- UTILITY GENERAL NOTES**
- PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY CONTRACTORS IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (i.e. TELEPHONE, GAS, CABLE, ETC.).
 - THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICT (SEPARATE PAYMENT).
 - STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE N.C.D.O.T. STANDARDS.
 - UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER, LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.
 - CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).
 - CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING.
 - WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-INS TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION IN ACCORDANCE WITH TOWN OF NAGS HEAD STANDARDS. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
 - STORM DRAINAGE REPAIRS BY CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.

- PAVEMENT REPAIR NOTES**
- CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT CROSS SECTION AS EXISTED PRIOR TO REMOVING PAVEMENT. THE STREET CROWN SHALL BE RESTORED.
 - WHERE PATCH OF CURBING OCCURS CONTRACTOR SHALL MATCH EXISTING CURB GRADES WITHIN 0.02 FEET. PATCHES THAT ARE ABOVE THE CURB GRADE LINE WILL NOT BE ACCEPTABLE AND SHALL BE REMOVED AND RE-PATCHED AT NO EXPENSE TO THE OWNER. CURB PATCH SHALL BE THE SAME SHAPE/TEMPLATE AS THE EXISTING CURB.
 - CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE MUTCD OR N.C. SUPPLEMENT. WORK CAN NOT PROCEED UNTIL THE HEAD OF THE CONSTRUCTION SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE FROM SURFACE DEFLECTIONS.
 - CONTRACTOR SHALL SAWCUT EXIST. PAVEMENT STRAIGHT AND TRUE PRIOR TO REMOVING ASPHALT FOR UTILITY INSTALLATION. THE ENGINEER MAY APPROVE THE USE OF A MILLING MACHINE FOR REMOVAL OF THE EXISTING PAVEMENT WITHIN TRENCH LIMITS. WHERE MILLING IS APPROVED THE CONTRACTOR SHALL PLACE AND COMPACT MILLINGS IN MILLED AREA TO PROVIDE AN INTERIM TRAFFIC SURFACE. MILLING WHERE APPROVED BY ENGINEER IS AN ALTERNATE TO CUTTING ASPHALT AND DISPOSING OFF-SITE.
 - AFTER UTILITY IS INSTALLED AND TESTED AND THE EXCESS BASE MATERIAL REMOVED (APPROX. 2") CONTRACTOR SHALL AGAIN SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING AS NOTED ABOVE.
 - MILLING OPERATIONS SHALL BE LIMITED TO 1800 FEET PER MAIN LINE CREW NOT TO EXCEED ONE SHEET IN TOTAL OF DISTURBED ROADWAY FOR THE ENTIRE PROJECT AT ONE TIME WHERE CONTRACTOR SHALL PATCH PAVE DISTURBED AREA OF ROADWAY PRIOR TO DISTRIBUTING ADDITIONAL ROADWAY.
 - NO TRENCH SHALL BE LEFT UNATTENDED WITH A VERTICAL DROP GREATER THAN 1 INCH FROM ASPHALT SURFACE TO TOP OF BACKFILLED TRENCH.
 - IF PAVEMENT SETTLEMENT OCCURS WITHIN 1 YEAR, THE CONTRACTOR SHALL RE-PATCH AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - TOWN OF NAGS HEAD WILL REQUIRE FULL DEPTH ASPHALT PATCH TO MATCH EXISTING ASPHALT THICKNESS ON STATE MAINTAINED ROADS. PATCH PAVING SHOULD OCCUR SAME DAY AS REMOVAL.
 - TEST FOR DENSITY OF COMPACTION MAY BE MADE AT THE OPTION OF THE ENGINEER AND DEFICIENCIES SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER MAY HAVE COMPACTION TEST PERFORMED AFTER THE BACKFILL IS COMPLETE. CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO VARIOUS ELEVATIONS FOR DENSITY TESTING EXCAVATION, BACKFILL AND RECOMPACT SHALL BE PERFORMED AT NO ADDITIONAL COSTS TO THE OWNER.



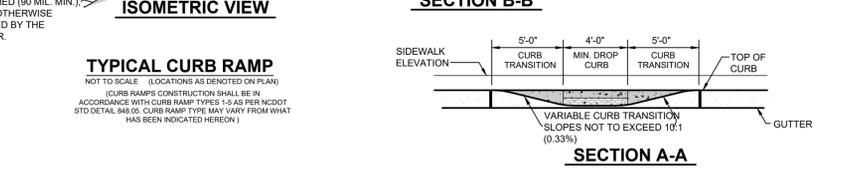
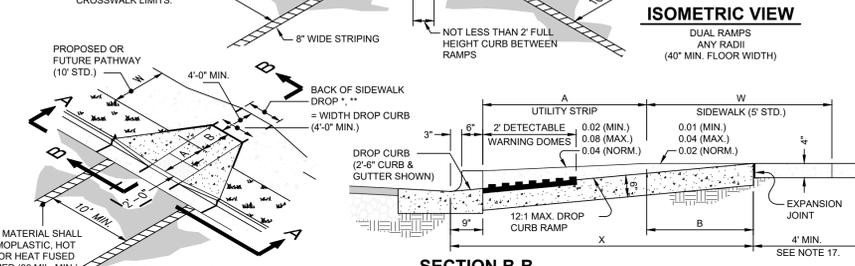
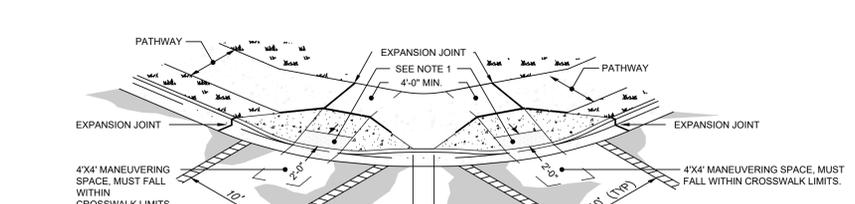
CONCRETE PATHWAY INSTALLATION DETAILS
NOT TO SCALE (SEE PLAN FOR LOCATIONS)

- NOTES:**
- PATH SHALL HAVE A 4" MINIMUM THICKNESS.
 - ALL CONCRETE USED FOR PATHWAYS SHALL BE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - ALL CONCRETE USED FOR PATHWAYS SHALL BE A MINIMUM OF 3,500 PSI.
 - PATHWAYS SHALL FORM A CONTINUOUS PATH ALONG ALIGNMENT.

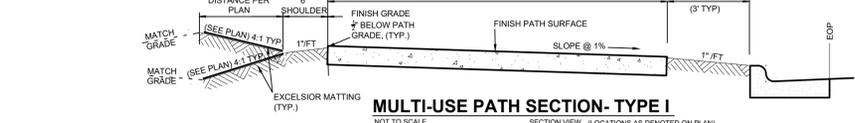
SCOPE OF DEMOLITION WORK

THE ITEM(S) TO BE REMOVED ARE SHOWN ON THE PROJECT DRAWINGS. UNLESS OTHERWISE SPECIFIED, DEMOLITION SHALL BE DONE ALONG WITH ANY SPECIFIED CLEARING, GRUBBING, AND REMOVAL OF OBSTRUCTIONS. AT A SATISFACTORY DISTANCE IN ADVANCE OF EARTHWORK AND/OR OTHER SCHEDULED CONSTRUCTION, THE AREA ABOVE THE NATURAL GROUND SURFACE SHALL BE CLEARED OF ALL VEGETATION SUCH AS TREES, LOGS, UPTURNED STUMPS, ROOTS OF DOWNED TREES, BRUSH, GRASS, WEEDS, AND ALL OTHER OBJECTIONABLE MATERIAL INCLUDING CONCRETE OR MASONRY, WITHIN THE FOLLOWING LIMITS:

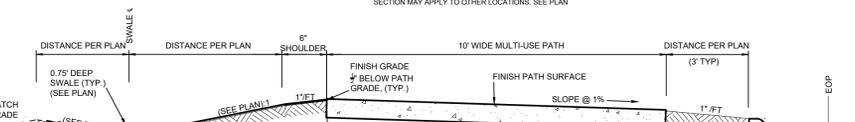
- AREA LIMITS FOR DEMOLITION, CLEARING AND GRUBBING FOR STREETS, ROADS, PARKING AND LANDSCAPED AREAS, STRUCTURES AND ALL OTHER TYPES OF CONSTRUCTION, THE DEMOLITION, CLEARING AND GRUBBING SHALL EXTEND TO AT LEAST 5 FT. OUTSIDE OF THE DESIGNATED EXCAVATION AREA(S), UNLESS OTHERWISE SPECIFIED IN PROJECT DOCUMENTS.
- WASTE TEMPORARY STORAGE AND DISPOSAL. THE CONTRACTOR MAY COLLECT DEMOLITION, CLEARING AND GRUBBING WASTES AT ONE PRE-APPROVED LOCATION ON THE SITE FOR COST EFFECTIVE LOADING AND HAULING. ALL MATERIALS REMOVED SHALL BE DISPOSED AT LOCATIONS AWAY FROM TOWN PROPERTY. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR DISPOSING OF MATERIALS AND SHALL PAY ALL COSTS INVOLVED.
- BURIED OBSTRUCTIONS. ALL EXISTING FOUNDATIONS, SUMP, BURIED TANKS, PIPING AND ALL OTHER OBJECTIONABLE MATERIAL, INCLUDING MASONRY AND CONCRETE RUBBLE, SHALL BE REMOVED FROM WITHIN THE LIMITS OF NEW STRUCTURE(S) AND/OR 3 FT. BELOW THE EXISTING GROUND SURFACE OR 6 FT. BELOW FINISHED GRADE, WHICHEVER IS DEEPER, OF SURROUNDING OPEN AREAS. THE REMOVAL OF EXISTING UTILITIES REQUIRED TO PERMIT ORDERLY PROGRESS OF WORK SHALL BE ACCOMPLISHED BY THE RESPECTIVE UTILITIES SUBCONTRACTOR, UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS.
- SPECIAL REQUIREMENTS FOR CONCRETE FACILITY REPLACEMENTS. CONCRETE FACILITIES SHALL BE REMOVED TO NEATLY SAWED EDGES WITH SAW CUTS MADE TO A MINIMUM DEPTH OF 3.0 IN. CONCRETE SIDEWALK OR DRIVEWAY APRONS TO BE REMOVED SHALL BE NEATLY SAWED IN STRAIGHT LINES WHETHER PARALLEL TO THE CURB OR AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK AS REQUIRED. NO SECTION OF SIDEWALK TO BE REPLACED SHALL BE SMALLER THAN 30 IN. IN EITHER LENGTH OR WIDTH. IF THE SAW CUT IN SIDEWALK OR DRIVEWAY APRON FALLS WITHIN 30 IN. OF A CONSTRUCTION JOINT, EXPANSION JOINT, OR EDGE, THE CONCRETE SHALL BE DESIGNED TO AVOID CONFLICT (SEPARATE PAYMENT). THE SAW CUT SHALL BE MADE IN AND ALONG THE SCORE MARK. CURB AND GUTTER SHALL BE SAWED TO A DEPTH OF 3.0 IN. ON A NEAT LINE AT RIGHT ANGLES TO THE CURB FACE. NO SECTION OF CURB AND GUTTER TO BE REPLACED SHALL BE SMALLER THAN 1 FT. IN LENGTH. IF THE SAW CUT IN THE CURB AND GUTTER FALLS WITHIN 5 FT. OF A CONSTRUCTION JOINT OR EXPANSION JOINT, THE CONCRETE SHALL BE REMOVED TO THAT JOINT.
- SEPTIC TANKS, CHEMICAL SUMP AND TANKS, AND SEWERS. THE REMOVAL OF THESE AND RELATED ITEMS ALSO GENERALLY INVOLVE THE REMOVAL OF HAZARDOUS MATERIALS. THE TOWN WILL PREPARE AND OBTAIN APPROVAL OF FLOOR PLANS FOR EACH LOCATION, WILL SUPPLY SPECIAL CONTAINERS INTO WHICH SOME HAZARDOUS MATERIALS SHALL BE PLACED AND WILL PREPARE MANIFEST PAPERS FOR SHIPMENT. SOME OF THE DEBRIS CONSIDERED CLEAN, SHALL BE HAULED TO REGULAR DUMP FOR DISPOSAL.
- SEALING AND ABANDONING OF WELLS. NEITHER THE WORK OF SEALING AND ABANDONING WELLS NOR ANY OTHER WORK WITH POTABLE OR GROUNDWATER OBSERVATION IS A PART OF THIS SECTION, SHOULD ANY UNSPECIFIED WELL BE FOUND IN THE PROJECT WORK AREA, NOTIFY THE CONSTRUCTION ENGINEER.
- APPLYING WATER, WETTING AGENTS AND DUST PALLIATIVES.
 - EQUIPMENT. ALL EQUIPMENT USED FOR THE APPLICATION OF WATER SHALL BE EQUIPPED WITH A POSITIVE MEANS OF SHUT-OFF THAT IS APPROVED BY THE LOCAL WATER AUTHORITY.
 - AVAILABILITY OF EQUIPMENT AND WATER. DURING ALL DEMOLITION OPERATIONS THAT CREATE, OR IS LIKELY TO CREATE, A DUST, ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 1,000 GAL. SHALL BE AVAILABLE FOR APPLYING WATER. NEITHER TOWN POTABLE, NOR FIRE PROTECTION WATER SHALL BE USED.
 - WETTING AGENTS. IF SUCH WETTING AGENT IS USED, FURNISHING AND APPLYING THE WETTING AGENT SHALL BE AT THE CONTRACTOR'S EXPENSE. THE PROPORTION OF WETTING AGENT TO WATER SHALL BE AS RECOMMENDED BY THE MANUFACTURER, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER.
 - DISTRIBUTION (SPRAYING). THE RESULTING MIXTURE SHALL BE APPLIED WITH PRESSURE TYPE WATER DISTRIBUTOR TRUCK EQUIPPED WITH A SPRAY SYSTEM OR PRESSURE TYPE ASPHALT DISTRIBUTORS AT AN APPROXIMATE RATE OF FROM 0.2 GAL. TO 0.8 GAL./SY.
- WASTE, SPOIL AND SURPLUS MATERIALS. UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS OR SUPPLEMENTAL SPECIFICATIONS, ALL WASTE, SPOIL AND SURPLUS MATERIAL, SHALL BE DISPOSED OF AWAY FROM LMM'S PROPERTY AT THE CONTRACTOR'S EXPENSE.
- SAFETY DEMOLITION HOLES. COMPACTED BACKFILL OF HOLES SHALL BE IMMEDIATELY SURROUNDED BY SAFETY BARRICADES, SHOULD HOLES IN STREETS, SIDEWALKS OR PARKING AREAS NEED TO BE QUICKLY MADE READY FOR TEMPORARY TRAFFIC, REFER TO TRENCHING AND BACKFILLING.



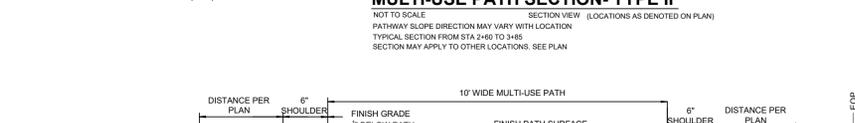
MULTI-USE PATH SECTION- TYPE I
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)



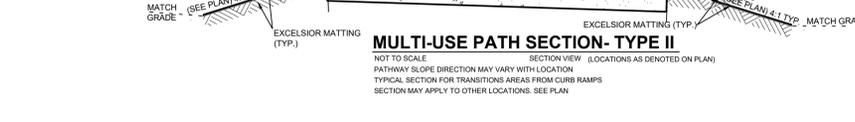
MULTI-USE PATH SECTION- TYPE II
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)



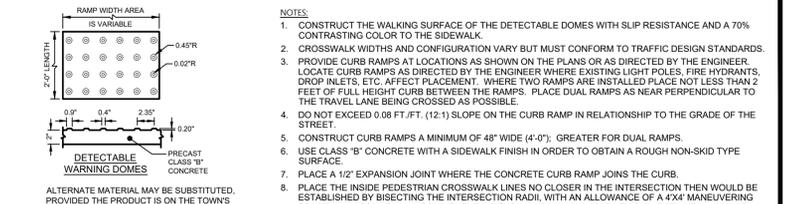
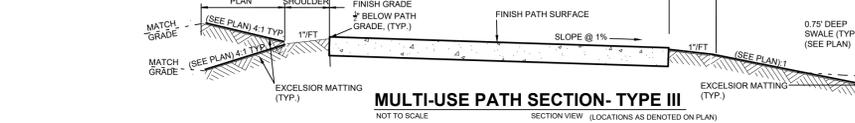
MULTI-USE PATH SECTION- TYPE II
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)



MULTI-USE PATH SECTION- TYPE III
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

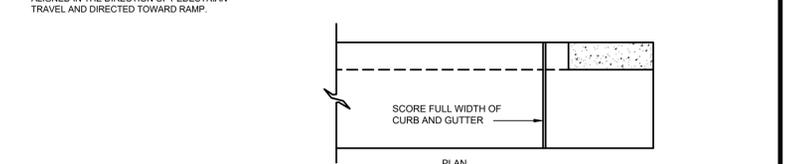


MULTI-USE PATH SECTION- TYPE IV
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

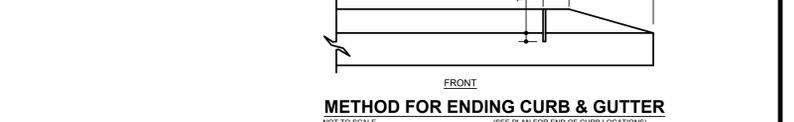


DETECTABLE WARNING DOMES
ALTERNATE MATERIAL MAY BE SUBSTITUTED, PROVIDED THE PRODUCT IS ON THE TOWN'S APPROVED MANUFACTURER LIST AND THE MANUFACTURER'S PRODUCT AND INSTALLATION SPECIFICATIONS ARE FOLLOWED.

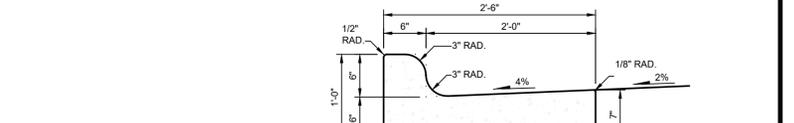
- NOTES:**
- DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES MANUFACTURED BY "COTEL INDUSTRIES, INC." CALLED "SAFTI-TRAX" WITH POLYURETHANE COATING "DURABAK" OR APPROVED OTHER EQUAL REQUIREMENT. AN UNSUBSTITUTED (NON-GROOVED) CLEAN CONCRETE RAMP, AND SHALL CONFORM TO THE DETAILS IN THE PLANS AND IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
 - ALL DETECTABLE WARNING AREAS SHALL START AT BACK OF CURB, BE 24 INCHES IN DEPTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA 48 INCHES MIN.
 - 70% CONTRAST IS REQUIRED. THE COLOR SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING MATERIAL, AS SPECIFIED ON THE PLANS. COLOR TO BE DETERMINED BY THE DESIGN STAFF, SAFETY YELLOW IS THE DEFAULT COLOR.
 - DETECTABLE WARNING SURFACE: APPLIED A COATING OF "DURABAK" SLIP-RESISTANT POLYURETHANE COATING TO THE SMOOTH, CLEAN CONCRETE SURFACE. ON TOP OF THE POLYURETHANE COATING APPLY TRUNCATED DOMES FROM A "SAFTI-TRAX" CONTACT SHEET ON TOP OF THE TRUNCATED DOMES AND INITIAL POLYURETHANE COATING PLACE THREE ADDITIONAL COATS OF "DURABAK" POLYURETHANE COATING. COLOR TO BE DETERMINED BY TOWN STAFF OR AS SPECIFIED ON THE PLANS. SAFETY YELLOW IS A DEFAULT COLOR.
 - ALL RAMP AND DETECTABLE WARNING SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL AND DIRECTED TOWARD RAMP.



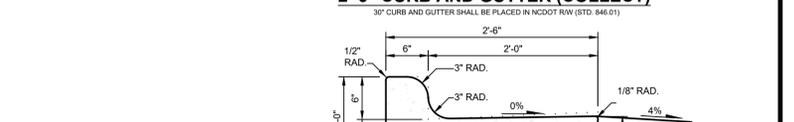
METHOD FOR ENDING CURB & GUTTER
NOT TO SCALE (SEE PLAN FOR END OF CURB LOCATIONS)



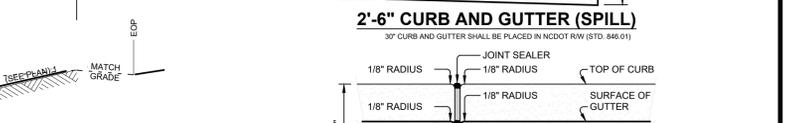
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2'-6\"/>



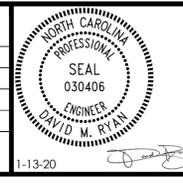
2'-6\"/>



TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER

- NOTES:**
- CONSTRUCTION JOINTS SHALL BE PLACED AT 10' INTERVALS, EXCEPT THAT 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE JOINT FACE CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CONSTRUCTION JOINTS.
 - CONSTRUCTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2\"/>

NO.	DATE	REVISION	APPROVALS	DATE
				1-13-20



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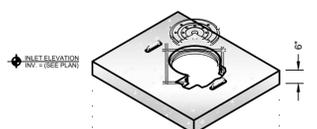
NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PH 8C W. SIDE MULTI-USE PATH PLAN

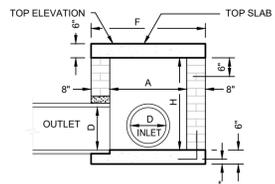
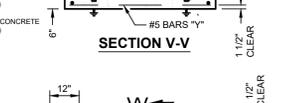
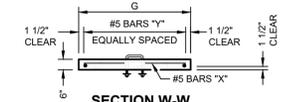
DRAWING TITLE:
MULTI-USE PATH CONSTRUCTION DETAILS

DRAWING NO.: C-12 **SHEET NO.:** SHEET 12 OF 17

SCALE: HORIZONTAL: NONE
VERTICAL:



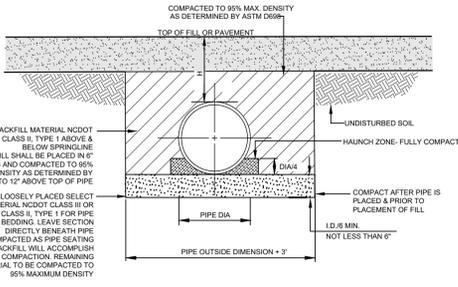
CATCH BASIN STRUCTURE		
PIPE	SPAN WIDTH	HEIGHT
15"	2'-3"	2'-3" (MIN.)
18"	2'-6"	2'-6" (MIN.)
24"	3'-0"	3'-3" (MIN.)
30"	3'-6"	3'-9" (MIN.)
36"	4'-0"	4'-3" (MIN.)



BRICK JUNCTION BOX DETAIL
NOT TO SCALE (NCDOT STD 840.32) (LOCATIONS AS DENOTED ON PLAN)
PIPE LOCATION AND ORIENTATION MAY VARY. REFER TO PLANS FOR LAYOUT.

- DRAINAGE STRUCTURE GENERAL NOTES**
- SPECIFICATIONS ATTACHED HEREON REFLECT THOSE AS OUTLINE IN NCDOT STANDARD 840.32, BRICK JUNCTION BOX. ALTERNATE PRECAST STRUCTURES MAY BE UTILIZED BASED UPON PRIOR APPROVAL BY THE ENGINEER.
 - STRUCTURE DESIGN SPECIFICATIONS SHALL CONFORM TO LATEST ASTM C913 SPECIFICATIONS FOR "PRECAST CONCRETE WATER & WASTEWATER STRUCTURES".
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000PSI.
 - STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C990 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER & WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
 - PROVIDE ADDITIONAL REINFORCING AT OPENINGS AS REQUIRED PER NCDOT REQUIREMENTS.
 - MINIMUM DESIGN SHALL BE H-20-44 LOADING.

- STEPS SHALL BE REQUIRED ON DROP INLETS OVER 3'-6" IN DEPTH. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND MEET THE REQUIREMENTS OF ASTM C478 (OR APPROVED EQUAL).
- TOTAL HEIGHT OF STRUCTURE AS SPECIFIED HEREIN.
- PIPE PENETRATION TO BE AS SPECIFIED. PIPE TO BE INSTALLED AS PER NCDOT STANDARDS FOR MORTAR JOINT CONNECTIONS.
- JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS OR BOTH.
- IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD BASE THICKNESS AS PRESCRIBED IN NCDOT STANDARD 840.00.
- ANY DEVIATIONS FROM THE APPROVED PLAN & SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONCRETE SLAB FOR CATCH BASIN SHALL CONFORM TO NCDOT STANDARD 840.32.
- USE #5 BAR DOWELS AT 12" O.C.

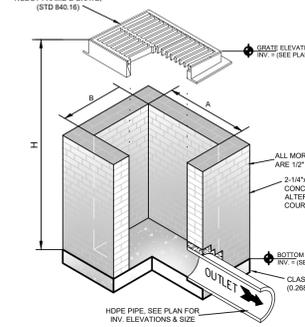


DRAINAGE PIPE INSTALLATION DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

- NOTES:**
- ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", CHAPTER XXVI OF TITLE 29, CFR, PART 1926. THE CONTRACTOR SHALL HAVE A COMPETENT PERSON ON THE JOB AT ALL TIMES AND SHALL EMPLOY A PROFESSIONAL ENGINEER TO ACT UPON ALL PERTINENT MATTERS OF THE WORK.
 - DO NOT OPERATE HEAVY EQUIPMENT UNDER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
 - THE PIPE CULVERT INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH NCDOT TYPICAL STANDARD DETAIL 30001, METHOD OF PIPE INSTALLATION.
 - I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 - O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 - H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE FLEXIBLE PAVEMENT STRUCTURE.
- RCP PIPE - AASHTO M170**
MINIMUM FILL HEIGHT 1' FOR NCDOT CLASS IV & NCDOT CLASS V OR 2' HEIGHT FOR NCDOT CLASS II AND NCDOT CLASS III
MAXIMUM FILL HEIGHT NCDOT CLASS II PIPE IS 10 FT., NCDOT CLASS III IS 20 FT., NCDOT CLASS IV IS 30', NCDOT CLASS V IS 40 FT.
A FLEXIBLE JOINT SEAL SHALL BE USED AT ALL PIPE JOINTS
12" - 18" DIA PIPE MIN. 1" WIDE JOINT SEALS
24" - 60" DIA. PIPE MIN. 1-1/4" WIDE JOINT SEAL
- THE RCP STANDARDS NOTED HEREON ACCOUNT FOR NORMAL EARTH FOUNDATION CONDITIONS. CONSULT WITH ENGINEER SHOULD CONDITIONS VARY.
- FOR ADDITIONAL REFERENCE: WWW.NCDOT.GOV OR WWW.CONCRETEPIPE.ORG

- DOUBLE WALL POLYPROPYLENE PIPE - AASHTO M330**
MINIMUM FILL HEIGHT FOR PIPE Ø > 12" AND <= 48" IS 1 FT. AND FOR Ø >= 60" IS 2 FT.
MAXIMUM FILL HEIGHT FOR PIPE Ø <= 18" IS 20 FT.
MAXIMUM FILL HEIGHT FOR PIPE Ø = 24" AND <= 60" IS 20 FT. FOR CLASS 2 BACKFILL 95%SPD
MAXIMUM FILL HEIGHT FOR PIPE Ø = 24" AND <= 60" IS 14 FT. FOR CLASS 3 BACKFILL 95%SPD
- ALL POLYPROPYLENE PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D3231, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND BEYOND THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS AS PER THE LATEST VERSION OF ASTM D3231.
 - DO NOT LAY OR EMBED PIPE OR DRAINAGE STRUCTURES IN STANDING OR RUNNING WATER. PREVENT SURFACE WATER FROM ENTERING THE TRENCH AT ALL TIMES.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL.
 - THE TRENCH BOTTOM SHALL BE STABLE AND OF A SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER.
 - ALL PIPE SUPPLIED SHALL BE DOUBLE GASKETED WATERTIGHT JOINTS, BELL AND SPIGOT MEETING THE REQUIREMENTS OF ASTM F2881. MARMAC REPAIR COUPLERS SHALL BE UTILIZED TO CONNECT FIELD CUT PIPE.
 - DOUBLE GASKETED WATERTIGHT JOINTS SHALL BE BELL AND SPIGOT MEETING THE WATERTIGHT REQUIREMENTS OF ASTM F2881.
 - THE STANDARDS NOTED HEREON ACCOUNT FOR NORMAL EARTH FOUNDATION CONDITIONS. CONSULT WITH ENGINEER SHOULD CONDITIONS VARY.
 - MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS SHALL APPLY.

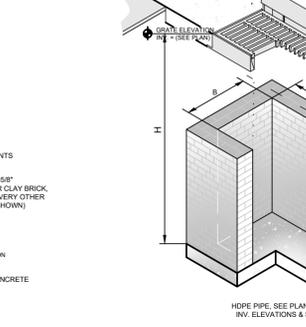
DROP INLET STRUCTURE		
PIPE	SPAN WIDTH	HEIGHT
15"	3'-0"	2'-3" (MIN.)
18"	3'-0"	2'-6" (MIN.)
24"	3'-0"	3'-3" (MIN.)
30"	3'-0"	4'-3" (MIN.)



DROP INLET STRUCTURE DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)
NCDOT STD 840.15
PIPE LOCATION AND ORIENTATION MAY VARY. REFER TO PLANS FOR LAYOUT.

- DROP INLET NOTES:**
- SPECIFICATIONS ATTACHED HEREON REFLECT THOSE AS OUTLINE IN NCDOT STANDARD 840.15, BRICK DROP INLET. AN ALTERNATE PRECAST DROP INLET MAY BE UTILIZED BASED UPON PRIOR APPROVAL BY THE ENGINEER.
 - DROP INLET DESIGN SPECIFICATIONS SHALL CONFORM TO LATEST ASTM C913 SPECIFICATIONS FOR "PRECAST CONCRETE WATER & WASTEWATER STRUCTURES".
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000PSI.
 - STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C990 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER & WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
 - PROVIDE ADDITIONAL REINFORCING AT OPENINGS AS REQUIRED PER NCDOT REQUIREMENTS.
 - MINIMUM DESIGN SHALL BE H-20-44 LOADING.
 - STEPS SHALL BE REQUIRED ON DROP INLETS OVER 3'-6" IN DEPTH. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND MEET THE REQUIREMENTS OF ASTM C478 (OR APPROVED EQUAL).
 - TOTAL HEIGHT OF STRUCTURE AS SPECIFIED HEREIN.
 - PIPE PENETRATION TO BE AS SPECIFIED. PIPE TO BE INSTALLED AS PER NCDOT STANDARDS FOR MORTAR JOINT CONNECTIONS.
 - JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS OR BOTH.
 - IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD BASE THICKNESS AS PRESCRIBED IN NCDOT STANDARD 840.00.
 - ANY DEVIATIONS FROM THE APPROVED PLAN & SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

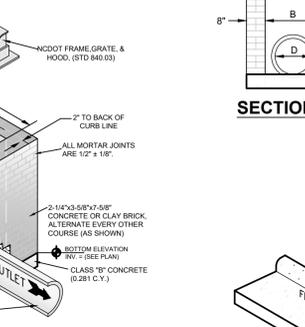
CATCH BASIN STRUCTURE		
PIPE	SPAN WIDTH	HEIGHT
15"	3'-0"	2'-3" (MIN.)
18"	3'-0"	2'-6" (MIN.)
24"	3'-0"	3'-3" (MIN.)
30"	3'-0"	4'-3" (MIN.)



CATCH BASIN STRUCTURE DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)
NCDOT STD 840.01
PIPE LOCATION AND ORIENTATION MAY VARY. REFER TO PLANS FOR LAYOUT.

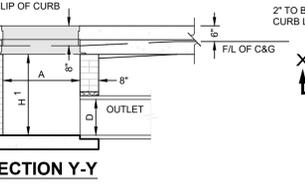
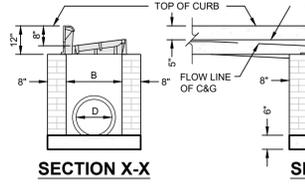
- CATCH BASIN NOTES:**
- SPECIFICATIONS ATTACHED HEREON REFLECT THOSE AS OUTLINE IN NCDOT STANDARD 840.01, BRICK CATCH BASIN. AN ALTERNATE PRECAST CATCH BASIN MAY BE UTILIZED BASED UPON PRIOR APPROVAL BY THE ENGINEER.
 - CATCH BASIN SPECIFICATIONS SHALL CONFORM TO LATEST ASTM C913 SPECIFICATIONS FOR "PRECAST CONCRETE WATER & WASTEWATER STRUCTURES".
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000PSI.
 - STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C990 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER & WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
 - PROVIDE ADDITIONAL REINFORCING AT OPENINGS AS REQUIRED PER NCDOT REQUIREMENTS.
 - MINIMUM DESIGN SHALL BE H-20-44 LOADING.
 - STEPS SHALL BE REQUIRED ON DROP INLETS OVER 3'-6" IN DEPTH. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND MEET THE REQUIREMENTS OF ASTM C478 (OR APPROVED EQUAL).
 - TOTAL HEIGHT OF STRUCTURE AS SPECIFIED HEREIN.
 - PIPE PENETRATION TO BE AS SPECIFIED. PIPE TO BE INSTALLED AS PER NCDOT STANDARDS FOR MORTAR JOINT CONNECTIONS.
 - JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS OR BOTH.
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 - ANY DEVIATIONS FROM THE APPROVED PLAN & SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

CATCH BASIN STRUCTURE		
PIPE	SPAN WIDTH	HEIGHT
15"	3'-0"	2'-3" (MIN.)
18"	3'-0"	2'-6" (MIN.)
24"	3'-0"	3'-3" (MIN.)
30"	3'-0"	4'-3" (MIN.)

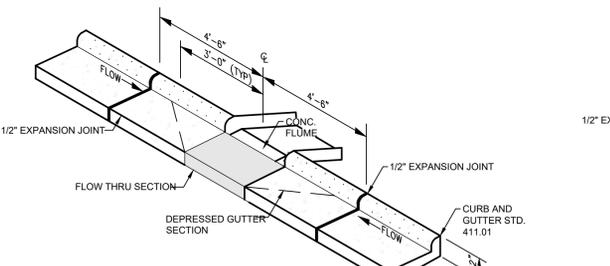


CATCH BASIN STRUCTURE DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)
NCDOT STD 840.01
PIPE LOCATION AND ORIENTATION MAY VARY. REFER TO PLANS FOR LAYOUT.

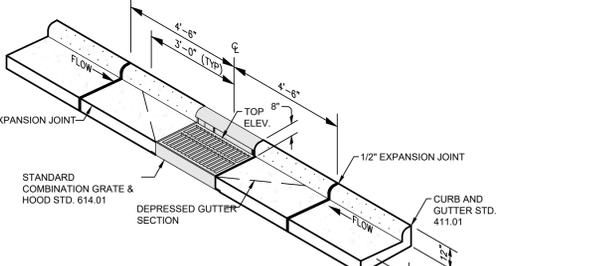
- CATCH BASIN NOTES:**
- SPECIFICATIONS ATTACHED HEREON REFLECT THOSE AS OUTLINE IN NCDOT STANDARD 840.01, BRICK CATCH BASIN. AN ALTERNATE PRECAST CATCH BASIN MAY BE UTILIZED BASED UPON PRIOR APPROVAL BY THE ENGINEER.
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 - ANY DEVIATIONS FROM THE APPROVED PLAN & SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



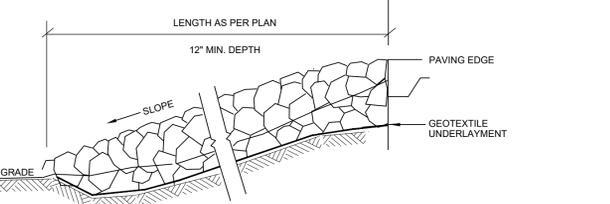
DRAINAGE STRUCTURE DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)



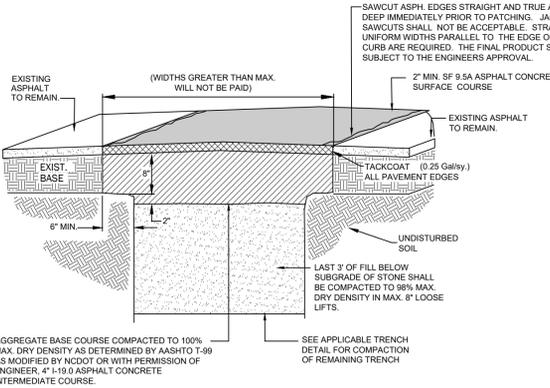
CURB & GUTTER "SAG" DETAIL (FLUME)
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)



CURB & GUTTER "SAG" DETAIL CATCH BASIN
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

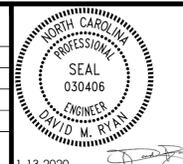


RIP-RAP SLOPE STABILIZATION DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)
RIP RAP SHALL CONFORM TO NCDOT CLASS A EROSION CONTROL STONE



PAVEMENT PATCH DETAIL
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

- AGGREGATE BASE COURSE COMPACTED TO 100% MAX. DRY DENSITY AS DETERMINED BY AASHTO T-99 AS MODIFIED BY NCDOT OR WITH PERMISSION OF ENGINEER. 4" - 11.0" ASPHALT CONCRETE INTERMEDIATE COURSE.**
- SEE APPLICABLE TRENCH DETAIL FOR COMPACTION OF REMAINING TRENCH**



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NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PH 8C W. SIDE MULTI-USE PATH PLAN

DRAWING TITLE:
MULTI-USE PATH CONSTRUCTION DETAILS

NO.	DATE	REVISION	APPROVALS

NAME	DATE
DRAWN BY: DMR	1-13-20
DESIGNED BY: DMR	1-13-20
CHECKED BY: DMR	1-13-20
RECORD DWG:	

1-13-2020

SCALE: HORIZONTAL: NONE
VERTICAL: NONE

DRAWING NO.: C-13 SHEET NO.: SHEET 13 OF 17

CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION	PERMANENT SEEDING
CONSTRUCTION ACCESS- CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS	FIRST LAND-DISTURBING ACTIVITY-STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL & TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE.	THE PURPOSE OF PERMANENT SEEDING IS TO REDUCE EROSION AND INCREASE SEDIMENT YIELD FROM DISTURBED AREAS. AND TO PERMANENTLY STABILIZE SUCH AREAS IN A MANNER THAT IS ECONOMICAL, ADAPTS TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS. THESE AREAS MUST BE SEEDED OR PLANTED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS AFTER FINAL GRADE IS REACHED, UNLESS TEMPORARY STABILIZATION IS APPLIED.
SEDIMENT TRAPS & BARRIERS	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED	PERMANENT SEEDING SPECIFICATIONS
FENCES, & OUTLET PROTECTION	INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.	SEEDING DATES- APRIL TO JULY
RUNOFF CONTROL- DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENTS TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL CONVEYANCE MEASURES DURING GRADING.	SEEDING MIXTURE
RUNOFF CONVEYANCE SYSTEM- STABILIZE STREAMBANKS, STORM DRAINS, CHANNELS, INLET & OUTLET PROTECTION, SLOPE DRAINS	WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.	SPECIES
LAND CLEARING & GRADING- SITE PREPARATION, CUTTING, FILLING & GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW & DISPOSAL AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES & BUFFER AREAS FOR PRESERVATION.	RATE (LB/ACRE)
SURFACE STABILIZATION- TEMPORARY & PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.	WINTER RYE (GRAIN) 120 (ANNUAL RYEGRASS SHALL NOT BE USED)
BUILDING CONSTRUCTION- BUILDINGS, UTILITIES, PAVING.	INSTALL NECESSARY EROSION & SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.	ANNUAL LESPEDEZA 50 (KOBÉ)
LANDSCAPING & FINAL STABILIZATION- TREES & SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	STABILIZE ALL OPEN AREAS, INCLUDING BORROW & SPOIL AREAS. REMOVE & STABILIZE ALL TEMPORARY CONTROL MEASURES.	*OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXCEED BEYOND JUNE

TEMPORARY SEEDING SPECIFICATIONS
 SEEDING RECOMMENDATIONS FOR LATE WINTER & EARLY SPRING
 SEEDING DATES- DECEMBER 1 TO APRIL 15
 SEEDING MIXTURE
 SPECIES RATE (LB/ACRE)
 WINTER RYE (GRAIN) 120 (ANNUAL RYEGRASS SHALL NOT BE USED)
 ANNUAL LESPEDEZA 50 (KOBÉ)
 *OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXCEED BEYOND JUNE

SOIL AMENDMENTS-
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH-
 APPLY 4,000-LB/ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE-
 REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING RECOMMENDATIONS FOR SUMMER
 SEEDING DATES- APRIL 15 TO AUGUST 15
 SEEDING MIXTURE
 SPECIES RATE (LB/ACRE)
 GERMAN MILLET 40

SOIL AMENDMENTS-
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

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MAINTENANCE-
 REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING RECOMMENDATIONS FOR FALL
 SEEDING DATES- AUGUST 15 TO DECEMBER 30
 SEEDING MIXTURE
 SPECIES RATE (LB/ACRE)
 WINTER RYE (GRAIN) 120

SOIL AMENDMENTS-
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH-
 APPLY 4,000-LB/ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE-
 REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBÉ LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

LAND GRADING CONSTRUCTION SPECIFICATIONS

- CONSTRUCT & MAINTAIN ALL EROSION & SEDIMENTATION CONTROL PRACTICES & MEASURES IN ACCORDANCE WITH THE APPROVED SEDIMENTATION CONTROL PLAN AND CONSTRUCTION SCHEDULE.
- REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.
- SCARIFY AREAS TO BE TOPSOILED TO A MINIMUM DEPTH OF 2 INCHES BEFORE PLACING TOPSOIL.
- CLEAR & GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANNED STABILITY OF FILL.
- ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE FILLS.
- PLACE ALL FILL IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS, AND COMPACT THE LAYERS AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, OR OTHER RELATED PROBLEMS.
- DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.
- DO NOT PLACE FILL ON A FROZEN FOUNDATION, DUE TO POSSIBLE SUBSIDENCE AND SLIPPAGE.
- KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- HANDLE SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION IN ACCORDANCE WITH APPROVED METHODS.
- PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS, FOLLOWING COMPLETION OF ANY PHASE OF GRADING; AND, A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- PROVIDE ADEQUATE PROTECTION FROM EROSION FOR ALL TOPSOIL STOCKPILES, BORROW AREAS, AND SPOIL AREAS.

MAINTENANCE
 PERIODICALLY CHECK ALL GRADED AREAS & THE SUPPORTING EROSION & SEDIMENTATION CONTROL PRACTICES, AT A MINIMUM OF ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN HALF AN INCH. PROMPTLY REMOVE ALL SEDIMENT FROM DIVERSIONS AND OTHER WATER-DISPOSAL PRACTICES. IF WASHOUTS OR BREAKS OCCUR, REPAIR THEM IMMEDIATELY. PROMPT MAINTENANCE OF SMALL-ERODED AREAS BEFORE THEY BECOME SIGNIFICANT GULLIES IS AN ESSENTIAL PART OF AN EFFECTIVE EROSION & SEDIMENTATION CONTROL PLAN. IMMEDIATE CORRECTIVE ACTION MUST BE TAKEN FOR ANY DEVICE FAILURE. IF SEDIMENT HAS BEEN OBSERVED TO HAVE BEEN DEPOSITED IN A STREAM OR WETLAND, THE DIVISION OF WATER QUALITY MUST BE NOTIFIED WITHIN 24 HOURS AND A WRITTEN NOTICE PROVIDED WITHIN 5 DAYS.

SOIL AMENDMENTS-
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

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MAINTENANCE-
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SEEDING RECOMMENDATIONS FOR SUMMER
 SEEDING DATES- APRIL 15 TO AUGUST 15
 SEEDING MIXTURE
 SPECIES RATE (LB/ACRE)
 GERMAN MILLET 40

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SEEDING RECOMMENDATIONS FOR FALL
 SEEDING DATES- AUGUST 15 TO DECEMBER 30
 SEEDING MIXTURE
 SPECIES RATE (LB/ACRE)
 WINTER RYE (GRAIN) 120

SOIL AMENDMENTS-
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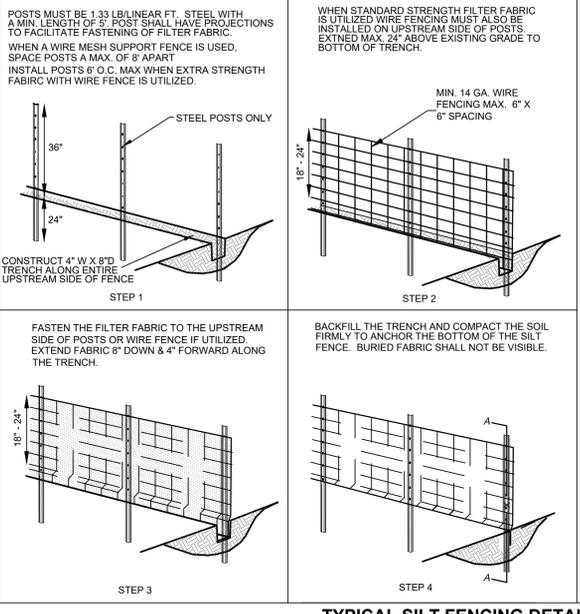
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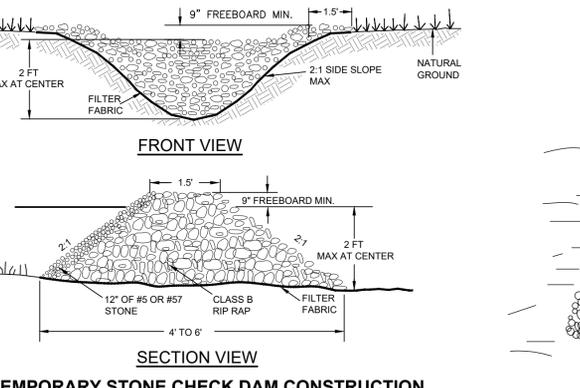
SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- PROPOSED AREAS TO BE DISTURBED CONSIST OF PORTIONS OF THE RIGHTS OF WAY OF THE FOLLOWING STREETS:
 S. CROATAN HWY (US HWY 158) WESTERN RIGHT-OF-WAY MARGIN SPANNING FROM SOUNDSIDE RD. TO DANUBE ST.
- AFTER ACCEPTANCE OF ALL PROJECT WORK, AND FULL ESTABLISHMENT OF PERMANENT VEGETATION, CONTINUED MAINTENANCE OF PERMANENT VEGETATION SHALL BE THE RESPONSIBILITY OF OWNER.
- PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES, FOLLOWING COMPLETION OF ANY PHASE OF GRADING, AND A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN THE TIME FRAMES SET FORTH IN THE GROUND STABILIZATION TIME REQUIREMENTS PROVISIONS IN THE LOWER RIGHT CORNER OF THIS SHEET. IF SAID ACTIVITIES OCCUR OUTSIDE TEMPORARY VEGETATION SEEDING DATES (APRIL 1 THRU SEPT 30) THE TEMPORARY VEGETATION SEEDING SPECIFICATIONS SHALL BE FOLLOWED FOR PLANTING UNTIL THE NEXT APPROPRIATE PERMANENT SEEDING PERIOD, AT WHICH TIME PERMANENT VEGETATION SHALL BE ESTABLISHED ACCORDING TO PERMANENT VEGETATION SEEDING SPECIFICATIONS (SEE PERM AND TEMP SEEDING SPECIFICATIONS THIS SHEET).
- IF EXCESSIVE WIND EROSION OR STORM WATER RUNOFF EROSION DEVELOPS DURING TIME OF CONSTRUCTION IN ANY LOCATION ON THE PROJECT SITE, ADDITIONAL SAND OR SILT FENCING SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR LOCAL GOVERNING OFFICIAL, SO AS TO PREVENT DAMAGE TO ADJACENT PROPERTY. SEE SAND AND FENCE DETAIL THIS SHEET.
- SOIL EROSION AND SEDIMENTATION CONTROLS TO BE INSPECTED, MAINTAINED AND REPAIRED AS NECESSARY UNTIL PERMANENT VEGETATION OR OTHER EFFECTIVE STABILIZATION IS ESTABLISHED.

LAND DISTURBANCE & STABILIZATION DETAIL



TYPICAL SILT FENCING DETAIL
 NOT TO SCALE LOCATION AS NOTED ON PLAN



TEMPORARY STONE CHECK DAM CONSTRUCTION
 NOT TO SCALE LOCATIONS AS NOTED ON PLAN

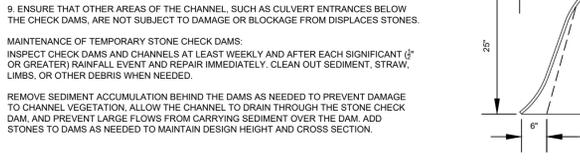
TEMPORARY STONE CHECK DAM CONSTRUCTION SPECIFICATIONS:

- CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSEL OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA.
- PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
- KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
- EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
- ALL CUT AND FILL SLOPES SHOULD BE 2:1 OR FLATTER.
- PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
- MATERIAL USED IN THE STONE SECTION SHOULD BE A WELL-GRADED MIXTURE OF STONE WITH A #50 SIZE OF 9 INCHES (CLASS B EROSION CONTROL STONE IS RECOMMENDED) AND A MAXIMUM STONE SIZE OF 14 INCHES. THE STONE MAY BE MACHINE PLACED AND THE SMALLER STONES WORKED INTO THE VOIDS OF THE LARGER STONES. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT.
- STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION.
- ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACES STONES.

CONSTRUCTION SPECIFICATIONS

- UNIFORMLY GRADE A SHALLOW DEPRESSION AROUND INLET.
- DRIVE 5 STEEL POSTS 2 FT INTO GROUND SURROUNDING INLET. SPACE POSTS EVENLY AROUND INLET, MAX. 4' SPACING.
- SURROUND POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE WIRE MESH TO THE STEEL POSTS AT TOP, MIDDLE & BOTTOM. PLACE A 2' FLAP OF WIRE UNDER GRAVEL FOR ANCHORING.
- PLACE CLEAN GRAVEL (MCDOT #5 OR #57 STONE) ON A 2:1 SLOPE TO A HEIGHT OF 16" AROUND BARRIER AND SMOOTH TO EVEN GRADE.
- ONCE CONTRIBUTING DRAINAGE AREAS IS STABILIZED, REMOVE ACCUMULATED SEDIMENT, & ESTABLISH FINAL GRADE.
- COMPACT THE AREA PROPERLY & STABILIZE W/ GROUND COVER.

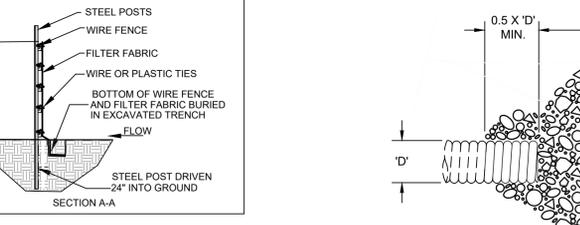
DROP INLET BARRIER INSTALLATION
 NOT TO SCALE LOCATIONS AS NOTED ON PLAN ISOMETRIC VIEW



FLARED END SECTION DETAIL
 NOT TO SCALE

REINFORCED STABILIZATION MATTING INSTALLATION
 NOT TO SCALE

- USE SYNTHETIC FILTER FABRIC OF AT LEAST 90% BY WEIGHT OF POLYPROPYLENE OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6481. FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120°F.
- CONSTRUCT THE SEDIMENT BARRIER OF GEOTEX 105F EXTRA STRENGTH SYNTHETIC FILTER FABRIC OR APPROXIMATELY EQUAL. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE.
- CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FT MINIMUM OVERLAP TO THE NEXT POST.
- SYNTHETIC FILTER FABRIC SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH MIN. 14 GA. WIRE FENCING MAX. 6" X 6" SPACING.
- 12 INCHES OF FILTER FABRIC SHALL BE BURIED IN AN EXCAVATED TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER. BACKFILL TRENCH WITH MECHANICALLY COMPACTED SOIL PLACED OVER THE FILTER FABRIC. DO NOT ATTACH FILTER FABRIC TO TREES.
- SILT FENCE SHALL BE INSPECTED AT LEAST ONCE A WEEK & AFTER EACH RAINFALL EVENT. MAKE ANY REPAIRS IMMEDIATELY SHOULD THE FABRIC COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

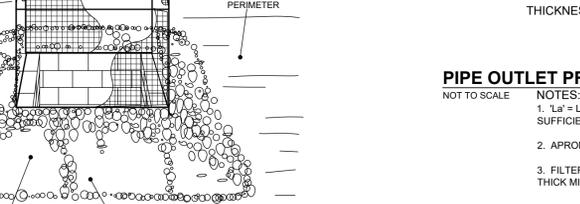


PIPE OUTLET PROTECTION/ENERGY DISSIPATOR
 NOT TO SCALE

NOTES:

- L_a = LENGTH OF APRON. DISTANCE L_a SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
- APRON SHALL BE AT A ZERO GRADE AND ALIGNED STRAIGHT.
- FILTER MATERIAL SHALL BE GEOTEXTILE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.

CONCRETE FLUME W/ OUTLET PROTECTION
 NOT TO SCALE



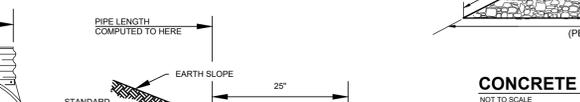
FLARED END SECTION DETAIL
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CONSTRUCTION SPECIFICATIONS

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- DRIVE 5 STEEL POSTS 2 FT INTO GROUND SURROUNDING INLET. SPACE POSTS EVENLY AROUND INLET, MAX. 4' SPACING.
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- PLACE CLEAN GRAVEL (MCDOT #5 OR #57 STONE) ON A 2:1 SLOPE TO A HEIGHT OF 16" AROUND BARRIER AND SMOOTH TO EVEN GRADE.
- ONCE CONTRIBUTING DRAINAGE AREAS IS STABILIZED, REMOVE ACCUMULATED SEDIMENT, & ESTABLISH FINAL GRADE.
- COMPACT THE AREA PROPERLY & STABILIZE W/ GROUND COVER.

DROP INLET BARRIER INSTALLATION
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CONCRETE FLUME W/ OUTLET PROTECTION
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FLARED END SECTION DETAIL
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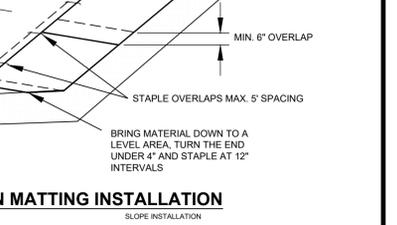
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CONCRETE FLUME W/ OUTLET PROTECTION
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REINFORCED STABILIZATION MATTING INSTALLATION
 NOT TO SCALE

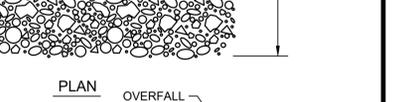


PIPE OUTLET PROTECTION/ENERGY DISSIPATOR
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NOTES:

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- FILTER MATERIAL SHALL BE GEOTEXTILE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.

CONCRETE FLUME W/ OUTLET PROTECTION
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DRAWING TITLE:
SEDIMENTATION & EROSION CONTROL DETAILS

NO.	DATE	REVISION	APPROVALS

NAME DATE
 DRAWN BY: DMR 1-13-20
 DESIGNED BY: DMR 1-13-20
 CHECKED BY: DMR 1-13-20
 RECORD DWG:

2024 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030406 DAVID W. RYAN

THE TOWN OF NAGS HEAD NC 1961

TOWN OF NAGS HEAD
 DEPARTMENT OF ADMINISTRATION
 P.O. BOX

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

ON-SITE CONCRETE WASHOUT STRUCTURE WITH LINER

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rain fall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(g) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&S plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&S Plan Documentation

The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S plan.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&S plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.

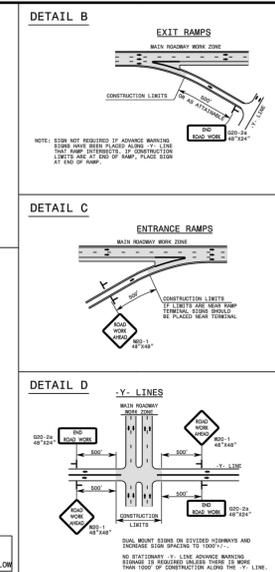
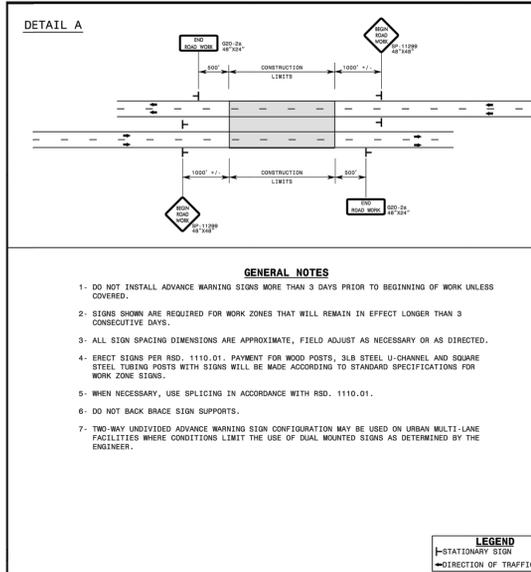
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the <i>NC 303(d) List</i> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item (1)(b)(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, (if possible). The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(i)(7)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(j)(6). Division staff may waive the requirement for a written report on a case-by-case basis.

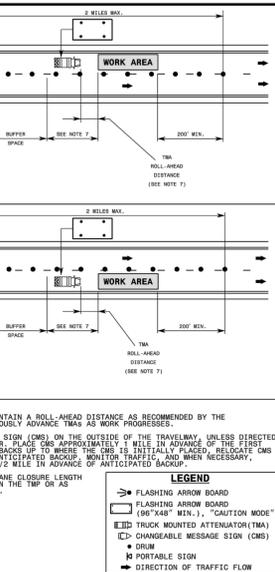
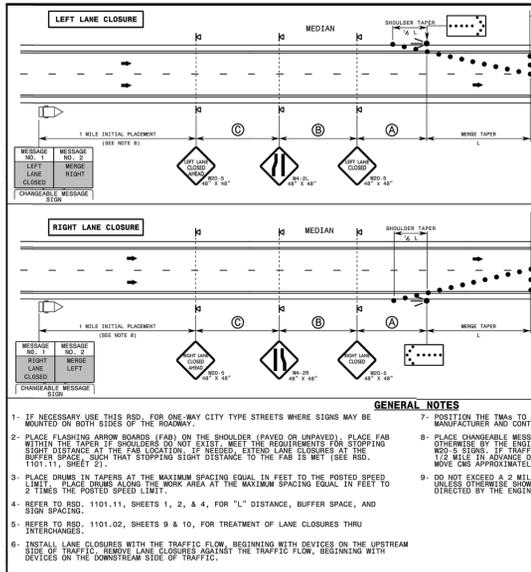
NO.		DATE	REVISION	APPROVALS	APPR. DATE			TOWN OF NAGS HEAD DEPARTMENT OF ADMINISTRATION P.O. BOX 99 NAGS HEAD, NC 27959 252.441.6221 • www.nagsheadnc.gov	NOTES: PERMIT DRAWINGS	CAPITAL IMPROVEMENT PROJECT FY 19/20 PH 8C W. SIDE MULTI-USE PATH PLAN	DRAWING TITLE: SEDIMENTATION & EROSION CONTROL NOTES	DRAWING NO.: C-15	SHEET NO.: SHEET 15 OF 17



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
WORK ZONE ADVANCE WARNING SIGNS FOR FACILITIES ≤ 55 MPH

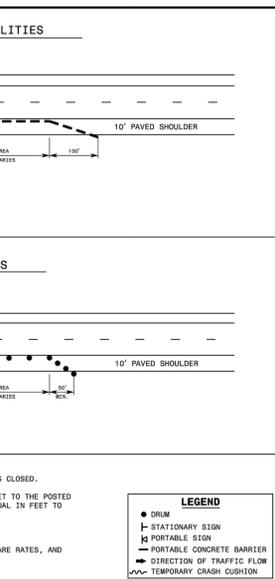
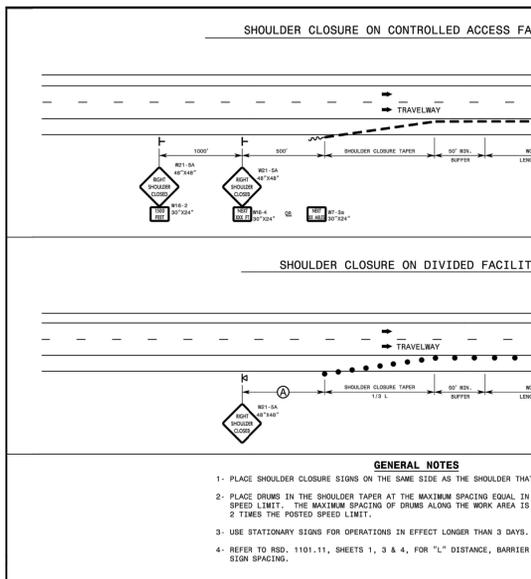
SHEET 2 OF 3
1101.01



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES DIVIDED MULTI-LANE ROADWAY (LANE CLOSED FOR ROADWAYS ≤ 60 MPH)

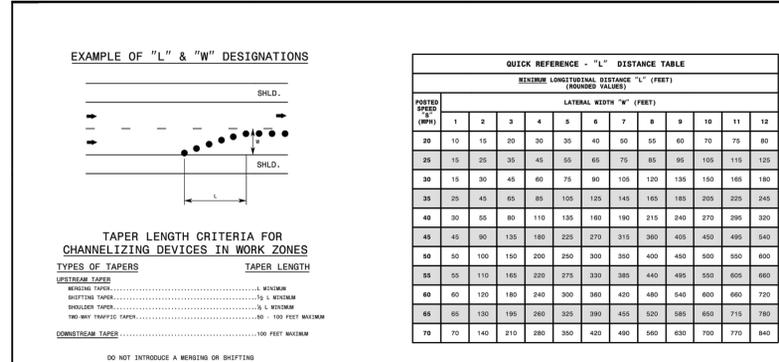
SHEET 2 OF 4
1101.02



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101.04



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES "L" DISTANCE AND CHANNELIZING DEVICE TAPER CRITERIA

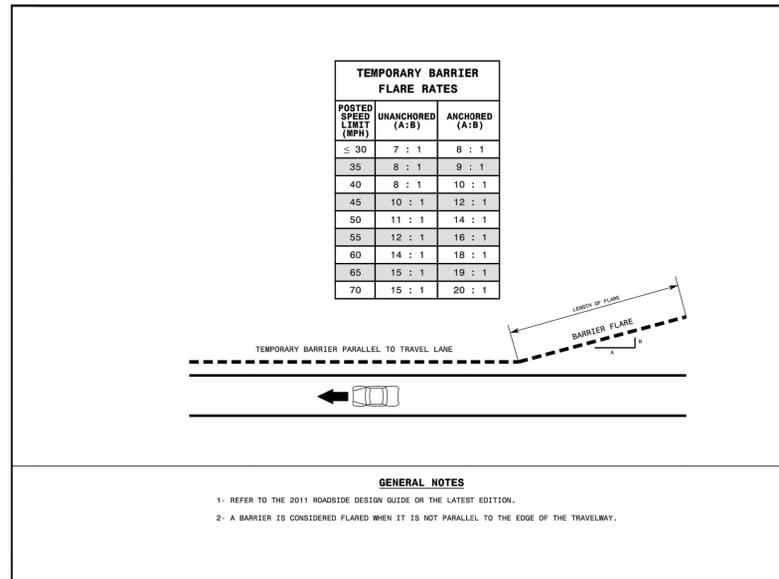
SHEET 1 OF 4
1101.11

DESIGN SPEED (MPH)	MINIMUM STOPPING SIGHT DISTANCE (FEET)	MINIMUM PASSING SIGHT DISTANCE (FEET)	MINIMUM LONGITUDINAL BUFFER SPACE (FEET)
30	200	1090	85
35	250	1280	120
40	305	1470	155
45	360	1655	195
50	425	1835	240
55	495	1995	290
60	570	2155	345
65	645	2295	405
70	730	2430	470
75	820	2560	540
80	910	2680	615

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES BUFFER SPACE & SIGHT DISTANCE

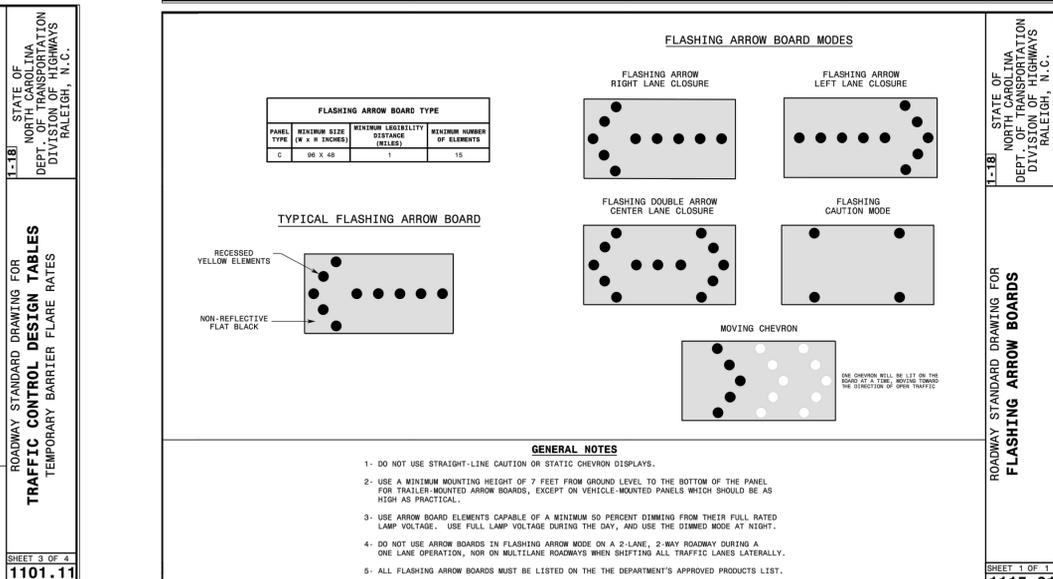
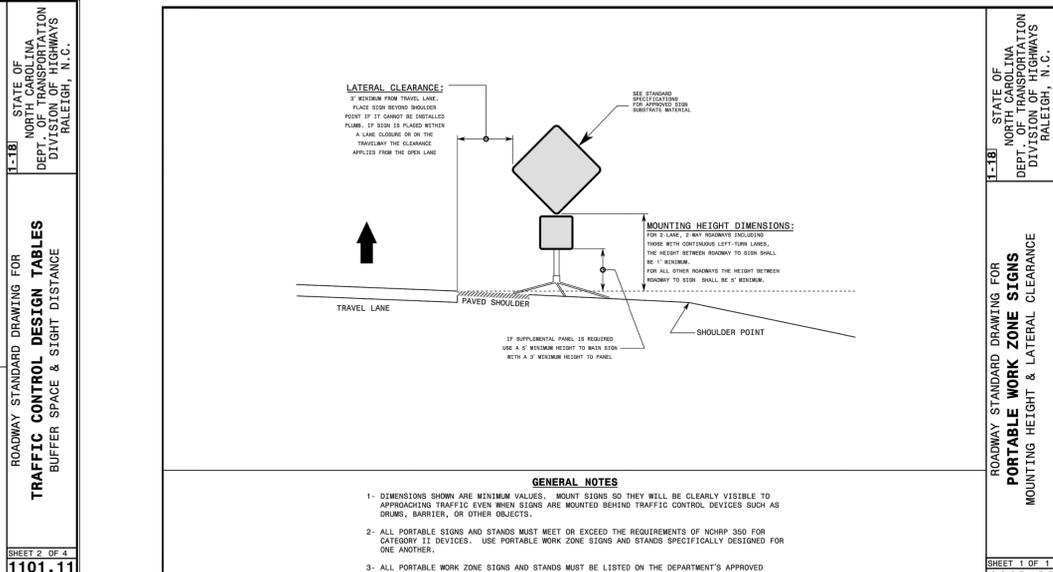
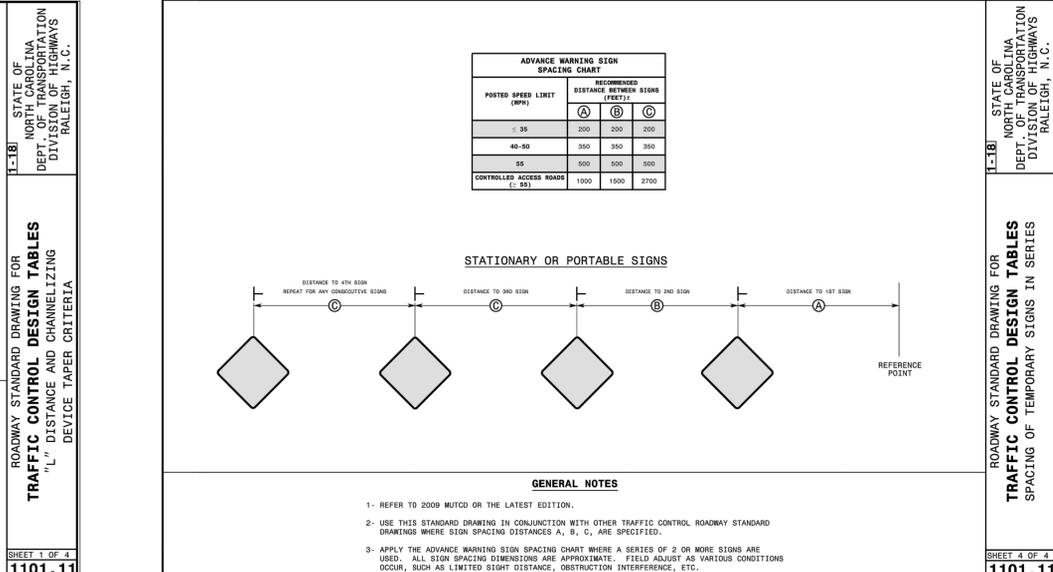
SHEET 2 OF 4
1101.11



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES TEMPORARY BARRIER FLARE RATES

SHEET 3 OF 4
1101.11



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
FLASHING ARROW BOARDS

SHEET 1 OF 1
1115.01

NO.	DATE	REVISION	APPROVALS	DATE

NAME DATE
DRAWN BY: DMR 1-13-20
DESIGNED BY: DMR 1-13-20
CHECKED BY: DMR 1-13-20
RECORD DWG:

STATE OF NORTH CAROLINA
PROFESSIONAL SEAL
030406
ENGINEER
DAVID M. RYAN

THE TOWN OF NAGS HEAD
1961

TOWN OF NAGS HEAD
DEPARTMENT OF ADMINISTRATION
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NAGS HEAD, NC 27959
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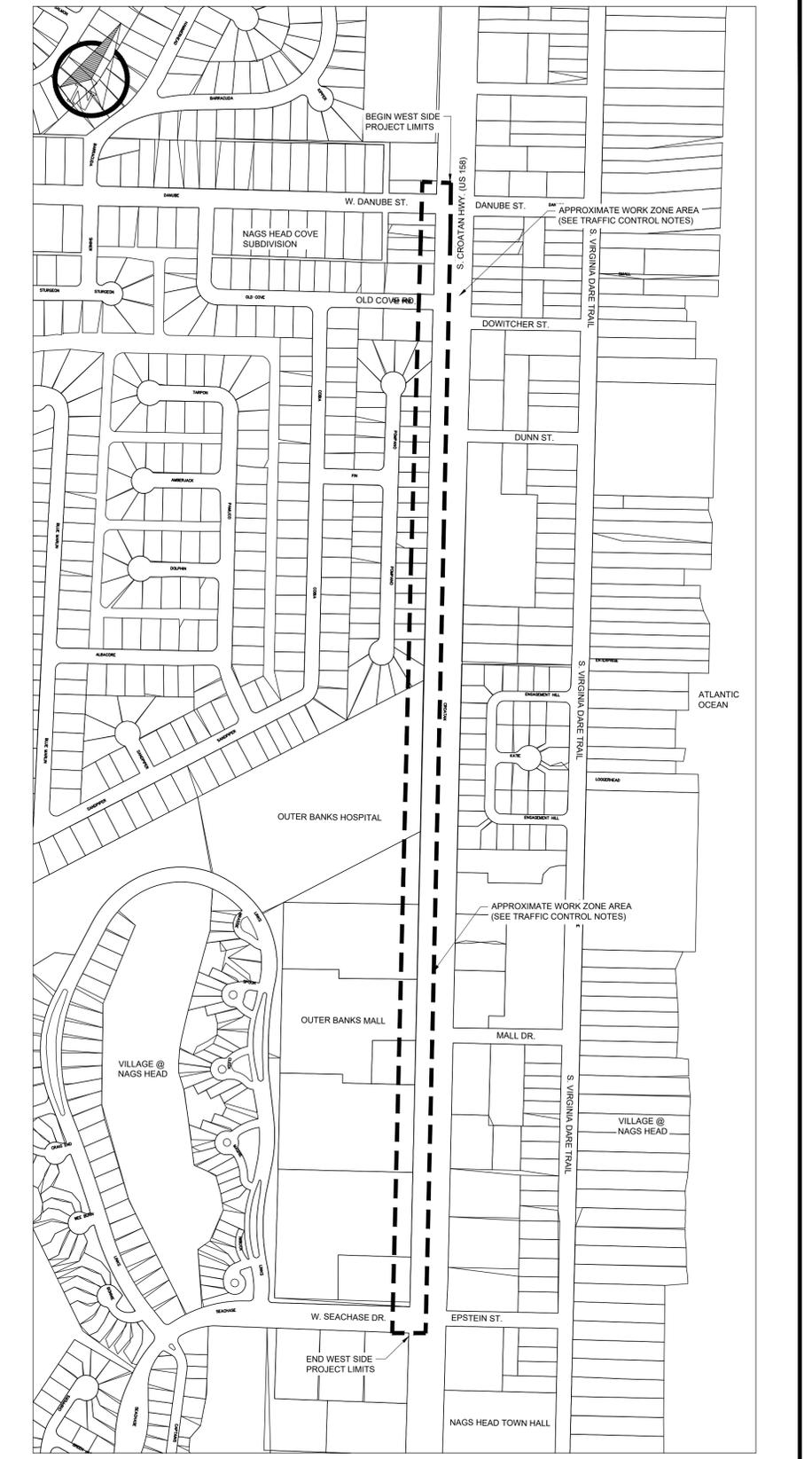
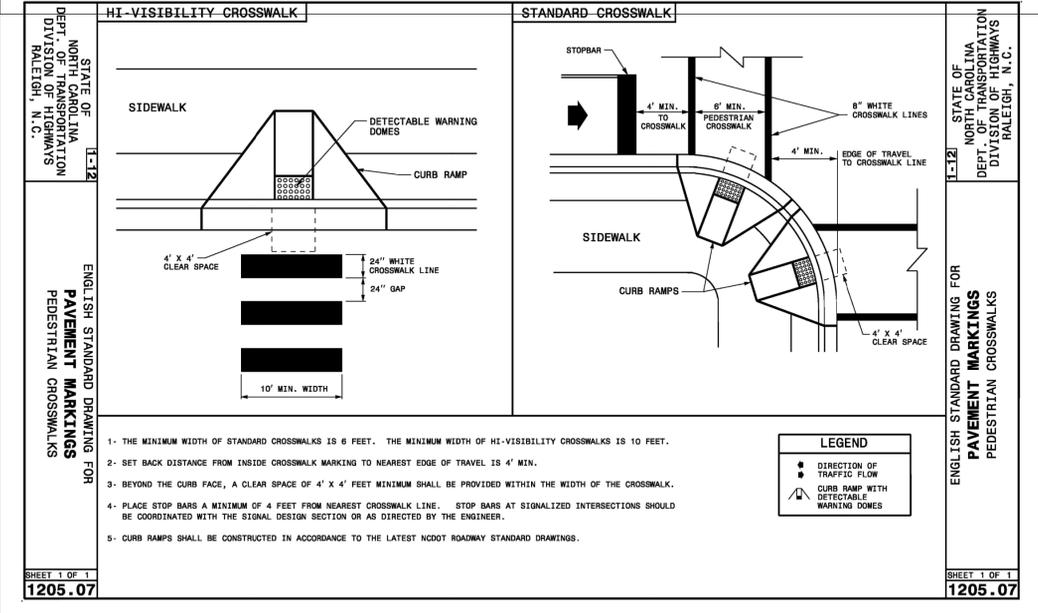
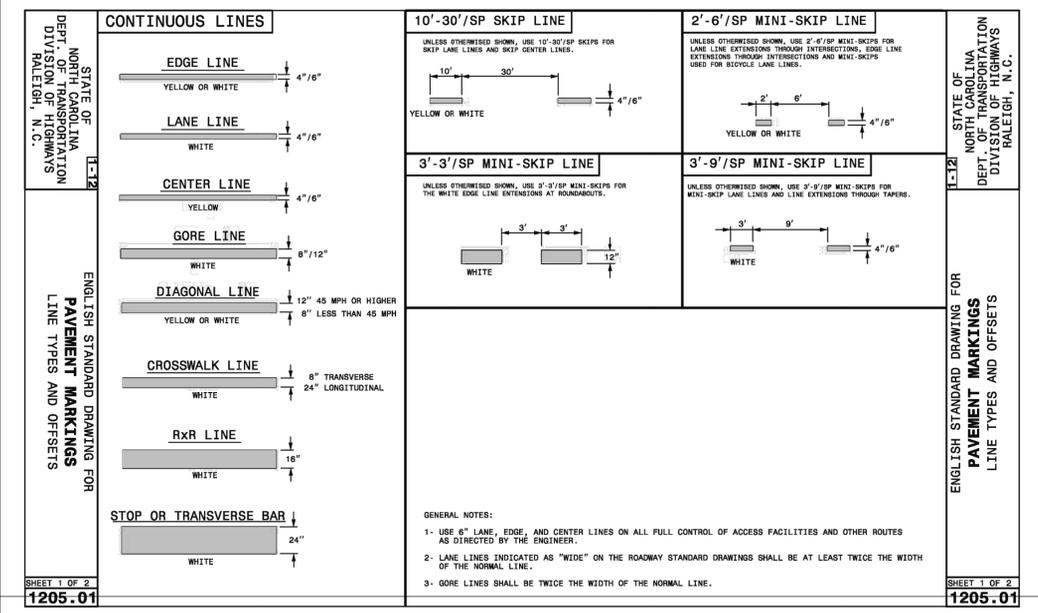
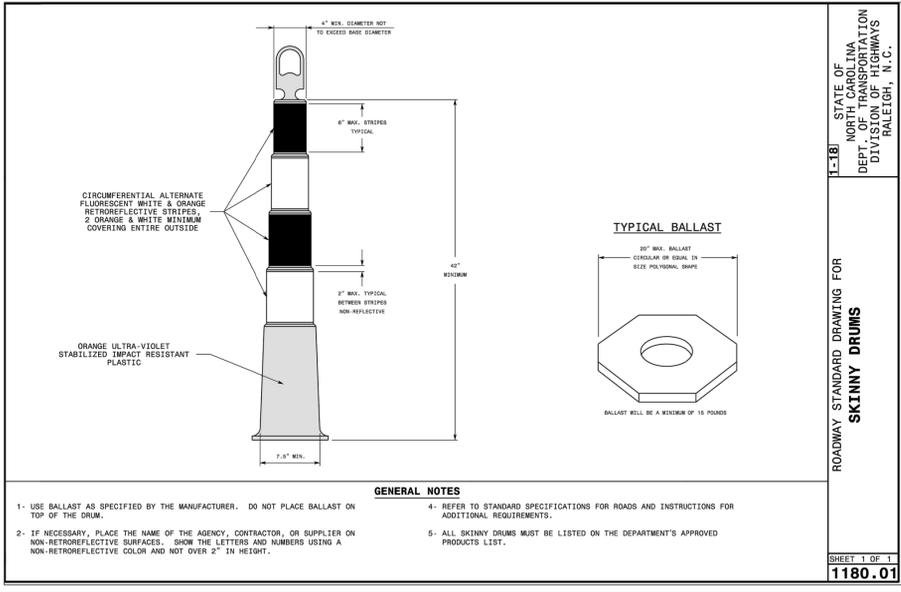
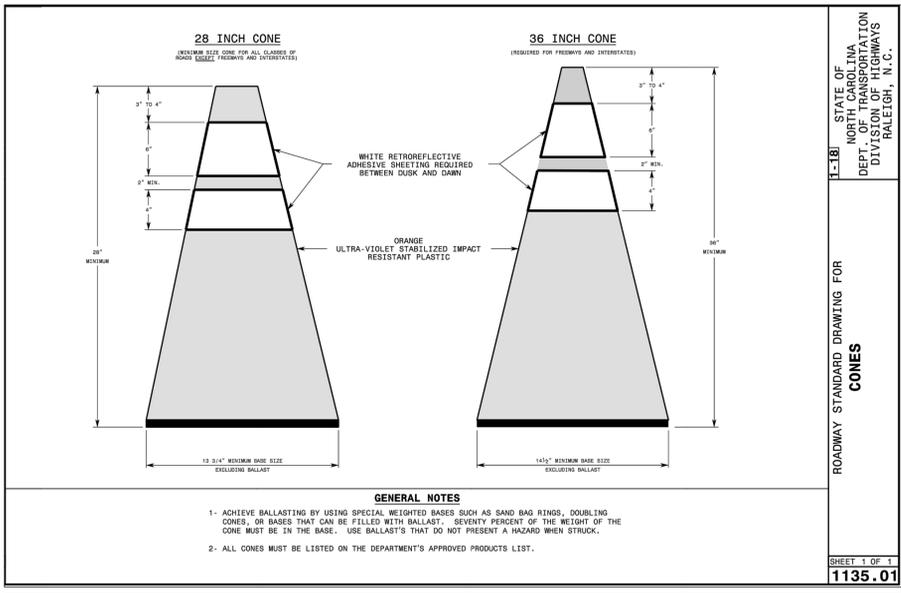
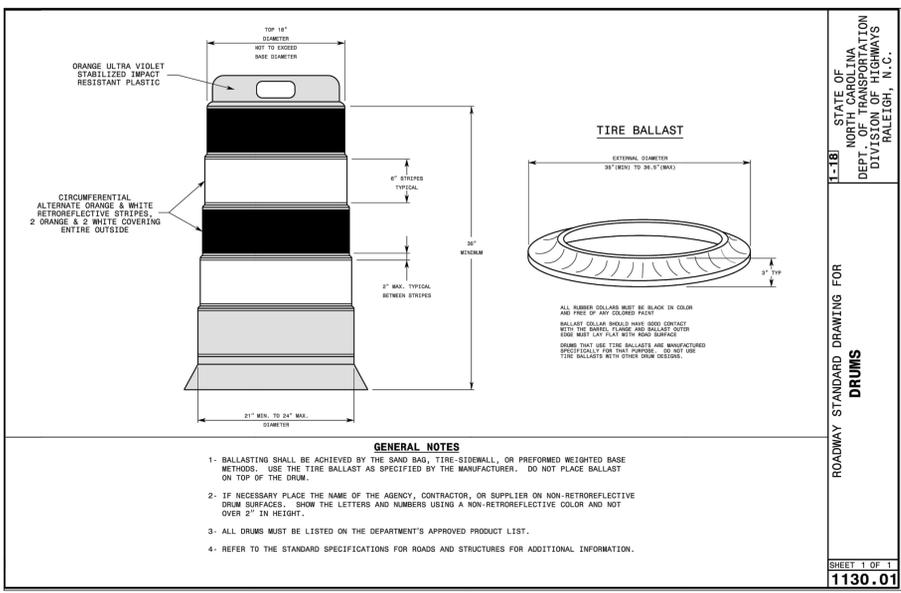
NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PH 8C W. SIDE MULTI-USE PATH PLAN

DRAWING TITLE:
TRAFFIC CONTROL DETAILS

SCALE: HORIZONTAL:
VERTICAL:

DRAWING NO.: C-16 SHEET NO.: SHEET 16 OF 17



NO.	DATE	REVISION	APPROV. DATE

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1-13-2020

NOTES: PERMIT DRAWINGS

CAPITAL IMPROVEMENT PROJECT FY 19/20
PH 8C W. SIDE MULTI-USE PATH PLAN

SCALE: HORIZONTAL: 1" = 300'
VERTICAL: 1" = 10'

DRAWING TITLE:
TRAFFIC CONTROL DETAILS

DRAWING NO.: C-17
SHEET NO.: SHEET 17 OF 17