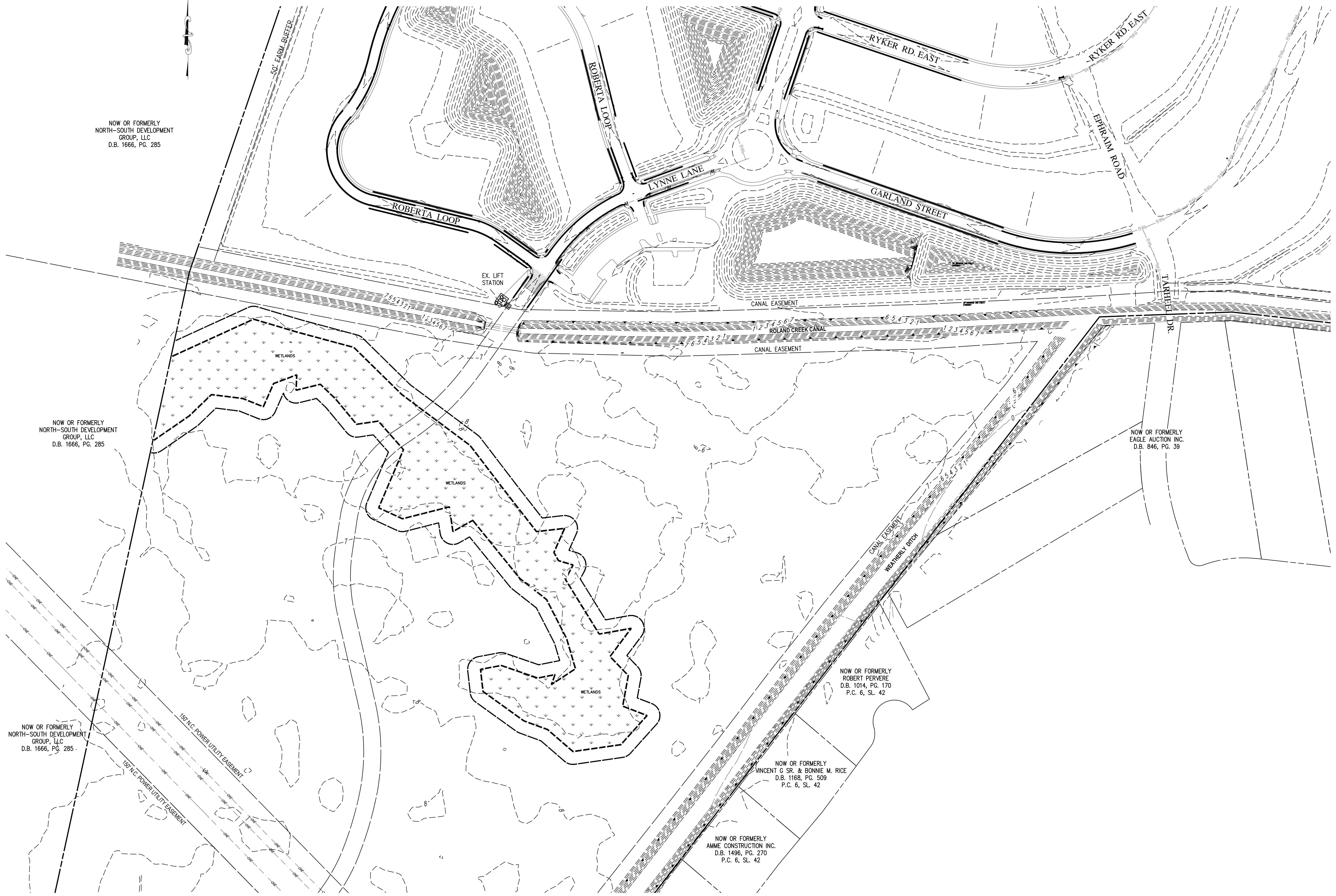


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NOW OR FORMERLY
NORTH-SOUTH DEVELOPMENT
GROUP, LLC
D.B. 1666, PG. 285

NOW OR FORMERLY
NORTH-SOUTH DEVELOPMENT
GROUP, LLC
D.B. 1666, PG. 285

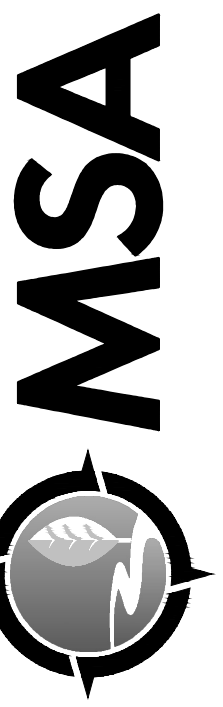
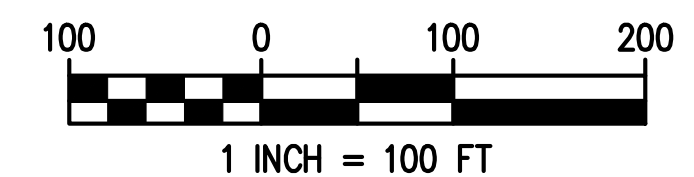
NOW OR FORMERLY
EAGLE AUCTION INC.
D.B. 846, PG. 39

NOW OR FORMERLY
ROBERT PERVERE
D.B. 1014, PG. 170
P.C. 6, SL. 42

NOW OR FORMERLY
VINCENT G SR. & BONNIE M. RICE
D.B. 1168, PG. 509
P.C. 6, SL. 42

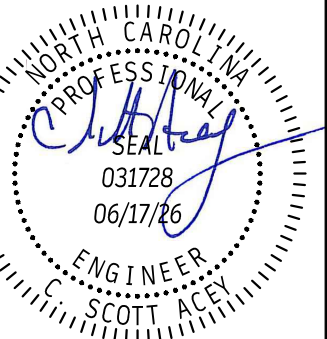
NOW OR FORMERLY
AMME CONSTRUCTION INC.
D.B. 1496, PG. 270
P.C. 6, SL. 42

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DRAWN					06/17/26
CHECKED					
APPROVED					

REVISION	DATE	DESCRIPTION

EXISTING CONDITIONS
OF
FOST PHASE 7 SUBDIVISION
MOTOCK TOWNSHIP
CURRITUCK COUNTY, NORTH CAROLINA

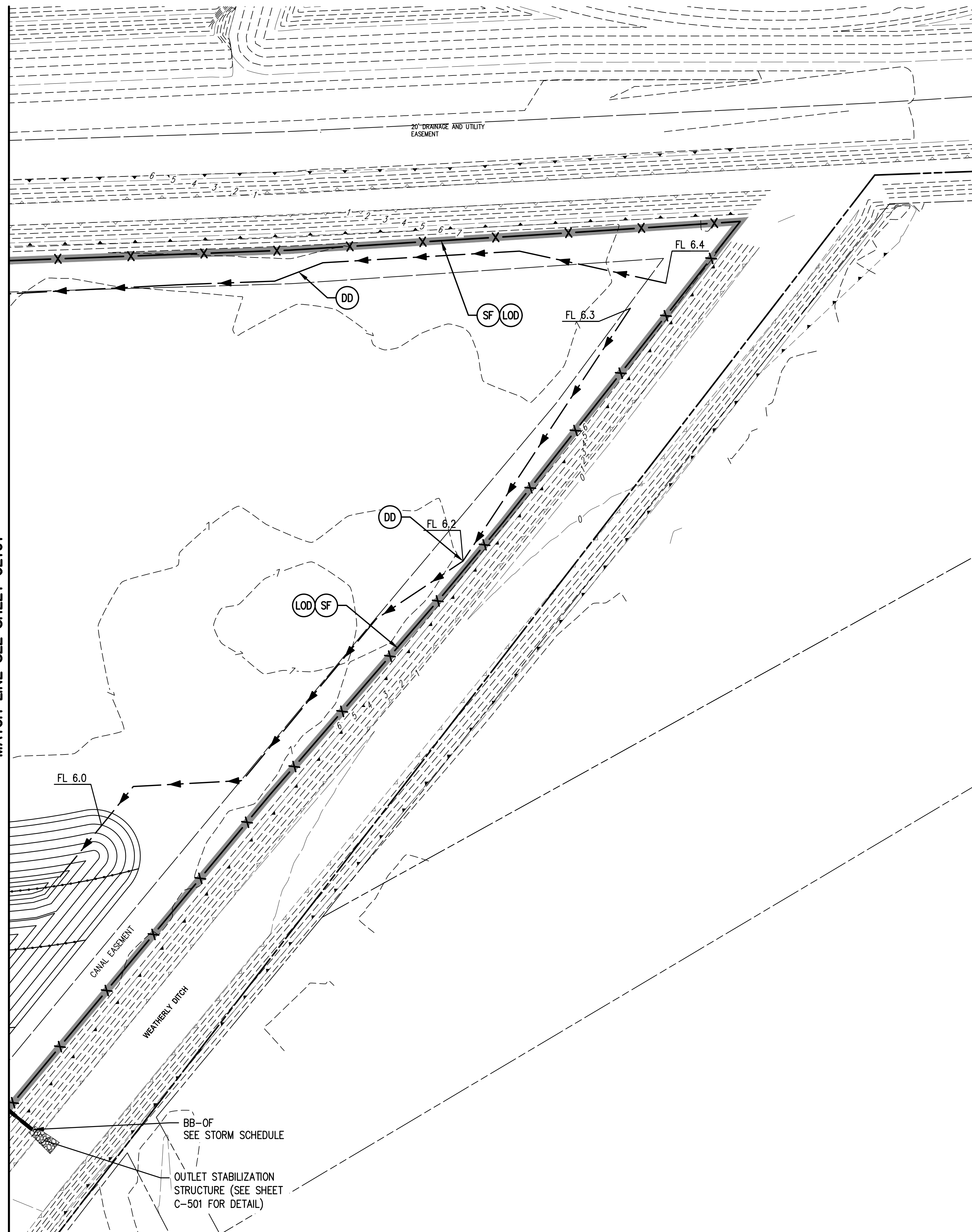
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C-002
2 of 20 Sheets
SCALE: 1" = 100'
PROJ. NO.: 25043

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**FINAL DESIGN
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CONSTRUCTION**

EROSION CONTROL LEGEND	
DESCRIPTION	SYMBOL
SILT FENCE	X (SF)
CONSTRUCTION ENTRANCE	CE
TEMPORARY SEEDING	(TS)
PERMANENT SEEDING	(PS)
TEMPORARY DIVERSION	→ (LOD)
LIMITS OF DISTURBANCE	— (LOD)

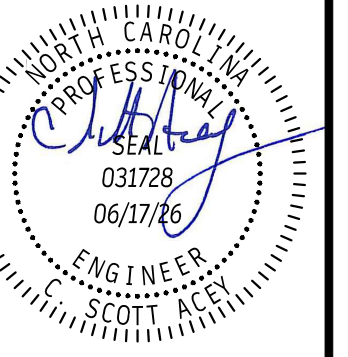
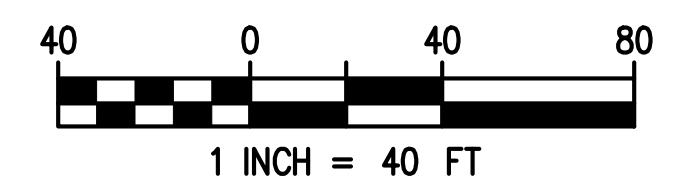
MATCH LINE SEE SHEET CE101



EROSION CONTROL AND CONSTRUCTION SEQUENCING:

- ACQUIRE NECESSARY PERMITS.
- INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES CONSISTING INITIALLY OF SILT FENCE AND CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN A MINIMUM 3' SEPARATION BETWEEN THE SILT FENCE AND EXISTING WETLANDS & CANALS.
- SEDIMENT BASINS #1 & #2 ARE TO BE EXCAVATED.
 - DEWATERING IS TO BE DONE BY SILT BAG WITH RUNOFF DIRECTED TO THE CANALS AS SHEET FLOW IN ACCORDANCE WITH DETAIL ON C-503. SILT BAG IS TO BE CONTINUOUSLY MONITORED DURING OPERATION.
 - PROPOSED OUTLET PIPES, PROPOSED CONTROL STRUCTURES, SKIMMERS, AND POROUS COIR FIBER BAFFLES ARE TO BE INSTALLED WITHIN THE SEDIMENT BASINS CONCURRENTLY WITH EXCAVATION. IN ACCORDANCE WITH DETAILS ON SHEET C-502 AND C-503.
 - SEDIMENT BASINS ARE TO BE EXCAVATED TO PROPOSED GRADE IN ACCORDANCE WITH DETAIL ON SHEET C-501.
- UPON PLACEMENT OF EXCAVATED MATERIAL, SILT FENCE IS TO BE PLACED AROUND STOCKPILE AREAS IN ACCORDANCE WITH DETAIL ON SHEET C-503. DIVERSIONS ARE TO BE GRADED PRIOR TO MATERIAL PLACEMENT ON LOTS IN ACCORDANCE WITH PLAN & DETAIL ON SHEET C-502.
- ROUGH GRADE IN ACCORDANCE WITH PLAN SHEETS CG101 & CG102. SEED DISTURBED AREAS IMMEDIATELY AFTER GRADING.
- INSTALL STORM, SEWER, AND WATER UTILITIES WHILE MAINTAINING TEMPORARY DRAINAGE AND INLET PROTECTION AT ALL TIMES.
- UPON COMPLETION OF ROUGH GRADING AND UTILITY INSTALLATION, PAVING OPERATIONS MAY BEGIN.
- DRESS AND OVERSEED ALL DISTURBED AREAS AND IMMEDIATELY ESTABLISH PERMANENT VEGETATIVE COVER. MAINTAIN VEGETATIVE COVER THROUGHOUT DURATION OF PROJECT.
- REPAIR ANY INADVERTENT EROSION AND REMOVE ANY INADVERTENT SEDIMENTATION.
- CONVERT SEDIMENT BASIN TO PERMANENT WET POND, INCLUDING DEMUCKING SEDIMENT, FINE GRADING TO PROPOSED ELEVATIONS, REMOVAL OF THE SKIMMER, AND REMOVAL OF THE POROUS COIR FIBER BAFFLES.
- REMOVE REMAINING TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WITHIN FOURTEEN DAYS AFTER FINAL SITE IS STABILIZED WITH VEGETATIVE GROWTH.
- REMOVE ALL TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS AND DEBRIS FROM THE SITE.

PLACEMENT OF EXCAVATED MATERIAL EITHER DIRECTLY ON THE LOTS OR IN A STOCKPILE WILL BE AT THE DISCRETION OF THE CONTRACTOR. ALL STOCKPILES SHALL INCORPORATE EROSION CONTROL MEASURES IN ACCORDANCE WITH NCEQ REQUIREMENTS.

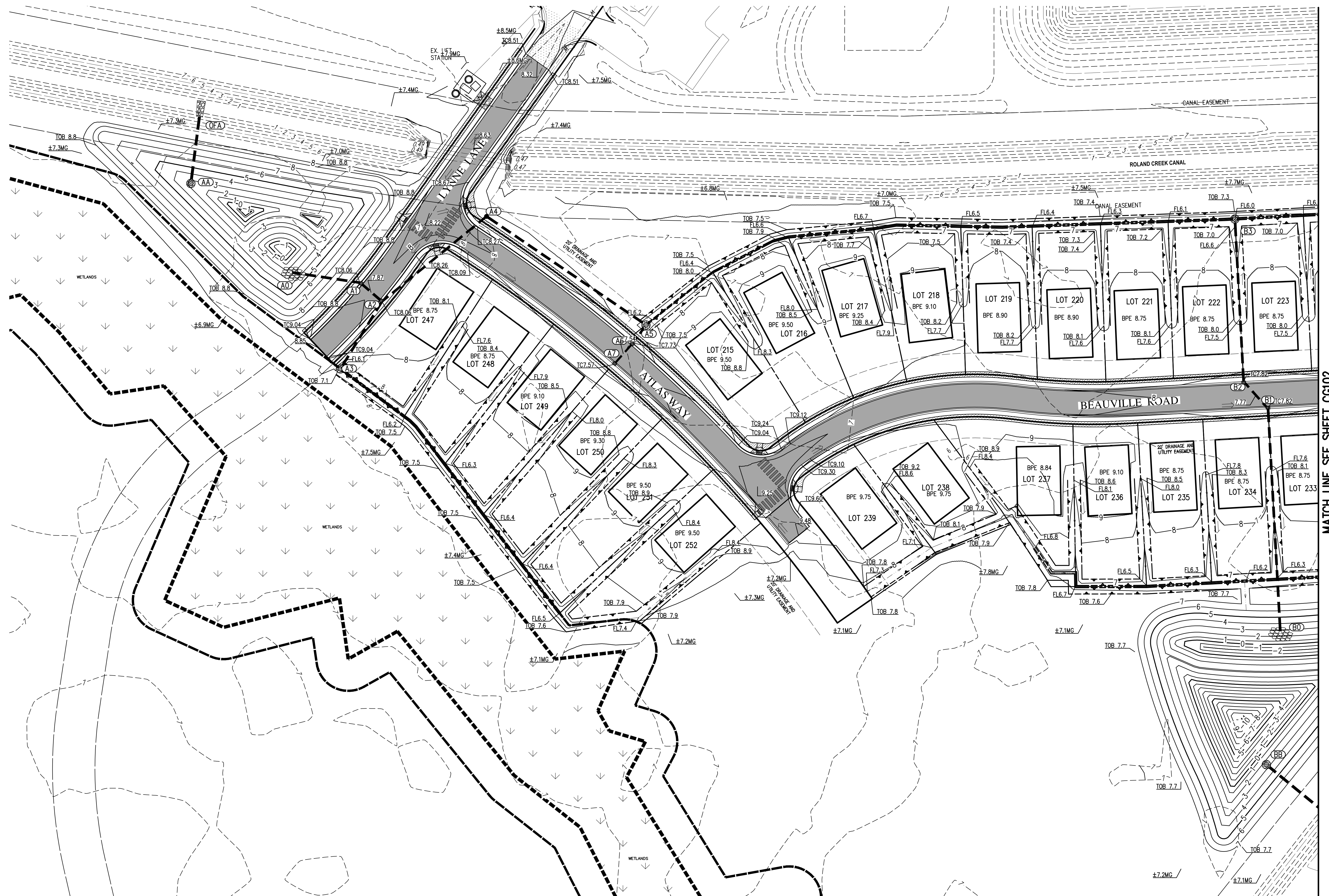


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APPROVED	CSA		

REVISION	NO.	DESCRIPTION

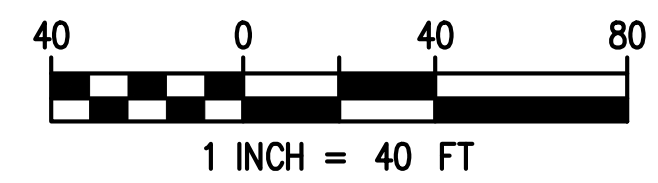
EROSION & SEDIMENT CONTROL PLAN
OF
FOST PHASE 7 SUBDIVISION
CURRITUCK COUNTY, NORTH CAROLINA
MOYOCK TOWNSHIP
SHEET
CE102
4 of 20 Sheets
SCALE: 1" = 40'
PROJ. NO.: 25043

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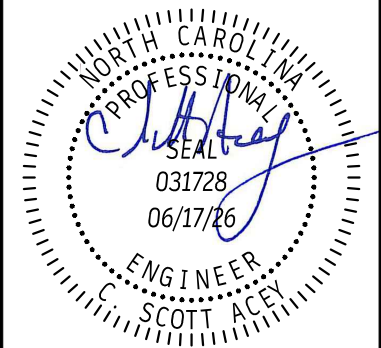


FINAL DESIGN
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CONSTRUCTION

MINIMUM FINISHED FLOOR ELEVATIONS
ARE EQUAL TO BUILDING PAD
ELEVATIONS (BPE) SHOWN HEREON



MATCH LINE SEE SHEET CG102



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CHECKED					
APPROVED					

REVISION	NO.	DESCRIPTION

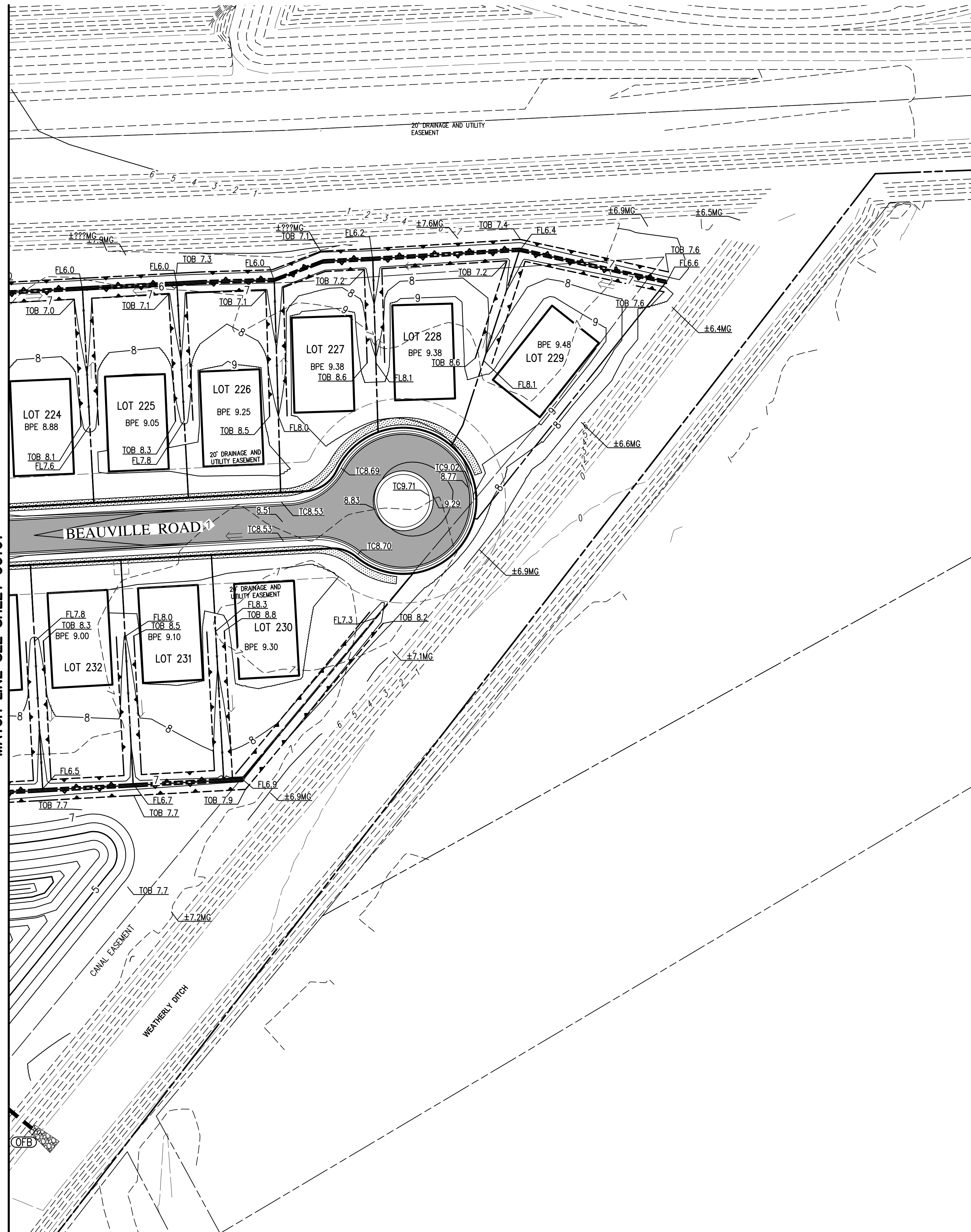
MASTER GRADING & DRAINAGE PLAN
OF
FOST PHASE 7 SUBDIVISION
MOYOCK TOWNSHIP
CURRITUCK COUNTY, NORTH CAROLINA

SHEET
CG101
5 of 20 Sheets
SCALE: 1" = 40'
PROJ. NO.: 25043

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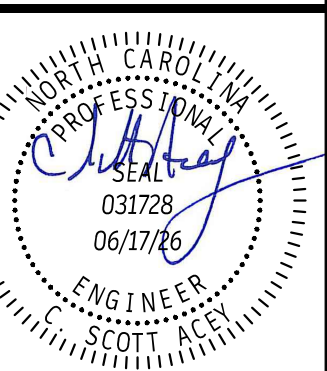
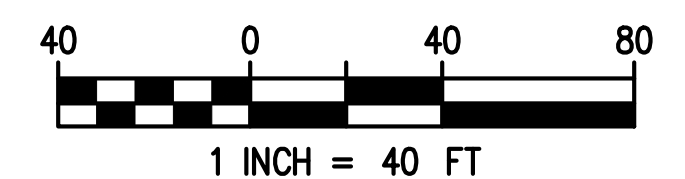
MATCH LINE SEE SHEET CG101



MINIMUM FINISHED FLOOR ELEVATIONS
ARE EQUAL TO BUILDING PAD
ELEVATIONS (BPE) SHOWN HEREON

PROPOSED STORM SEWER SCHEDULE	
ID	STRUCTURE & PIPE INFO
OFB	PIPE END RIM=4.62 INV(BB)=2.25 (24" RCP)
OFA	PIPE END RIM=4.68 INV(AA)=2.31 (24" RCP)
BB	WP1 OCS (SEE SHEET C-502 FOR DETAIL) RIM=4.88 RIM=7.17 .50 (24" RCP) BB TO OFB, 84 LF - 24" RCP @ 0.30%
B3	NC DROP INLET RIM=6.16 INV(B2)=4.00 (24" HDPE) B3 TO B2, 153 LF - 24" HDPE @ 0.31%
B2	NC CURB BASIN RIM=7.82 INV(B3)=3.52 (24" HDPE) INV(B1)=3.34 (24" HP) B2 TO B1, 35 LF - 24" HP @ 0.32%
B1	NC CURB BASIN RIM=7.82 INV(B2)=3.23 (24" HP) INV(B0)=3.23 (24" HDPE) B1 TO B0, 211 LF - 24" HDPE @ 0.30%
B0	PIPE END RIM=4.87 INV(B1)=2.60 (24" HDPE)
AA	WP2 OCS (SEE SHEET C-502 FOR DETAIL) RIM=4.88 RIM=8.30 .50 (24" RCP) AA TO OFA, 63 LF - 24" RCP @ 0.30%
A7	NC CURB BASIN RIM=7.57 INV(A6)=3.95 (18" HDPE) A7 TO A6, 27 LF - 18" HDPE @ 0.30%
A6	NC CURB BASIN RIM=7.74 INV(A7)=3.87 (18" HDPE) INV(A5)=3.87 (18" RCP) A6 TO A5, 21 LF - 18" RCP @ 0.33%
A5	NC DROP INLET RIM=6.16 INV(A6)=3.80 (18" RCP) INV(A4)=3.80 (24" HDPE) A5 TO A4, 182 LF - 24" HDPE @ 0.30%
A4	NC STD MANHOLE RIM=8.11 INV(A5)=3.26 (24" HDPE) INV(A2)=3.26 (24" HP) A4 TO A2, 127 LF - 24" HP @ 0.30%
A3	NC DROP INLET RIM=6.10 INV(A2)=3.11 (24" HDPE) A3 TO A2, 75 LF - 24" HDPE @ 0.31%
A2	NC CURB BASIN RIM=8.06 INV(A4)=2.88 (24" HP) INV(A1)=2.88 (24" HDPE) INV(A3)=2.88 (24" HDPE) A2 TO A1, 27 LF - 24" HDPE @ 0.30%
A1	NC CURB BASIN RIM=8.06 INV(A2)=2.80 (24" HDPE) INV(A0)=2.80 (24" HDPE) A1 TO A0, 66 LF - 24" HDPE @ 0.30%
A0	PIPE END RIM=4.87 INV(A1)=2.60 (24" HDPE)

RIM ELEVATION FOR CURB INLETS INDICATES
GRADE AT EDGE OF PAVEMENT AND OUTSIDE
EDGE OF GUTTER PAN AT THE STRUCTURE.



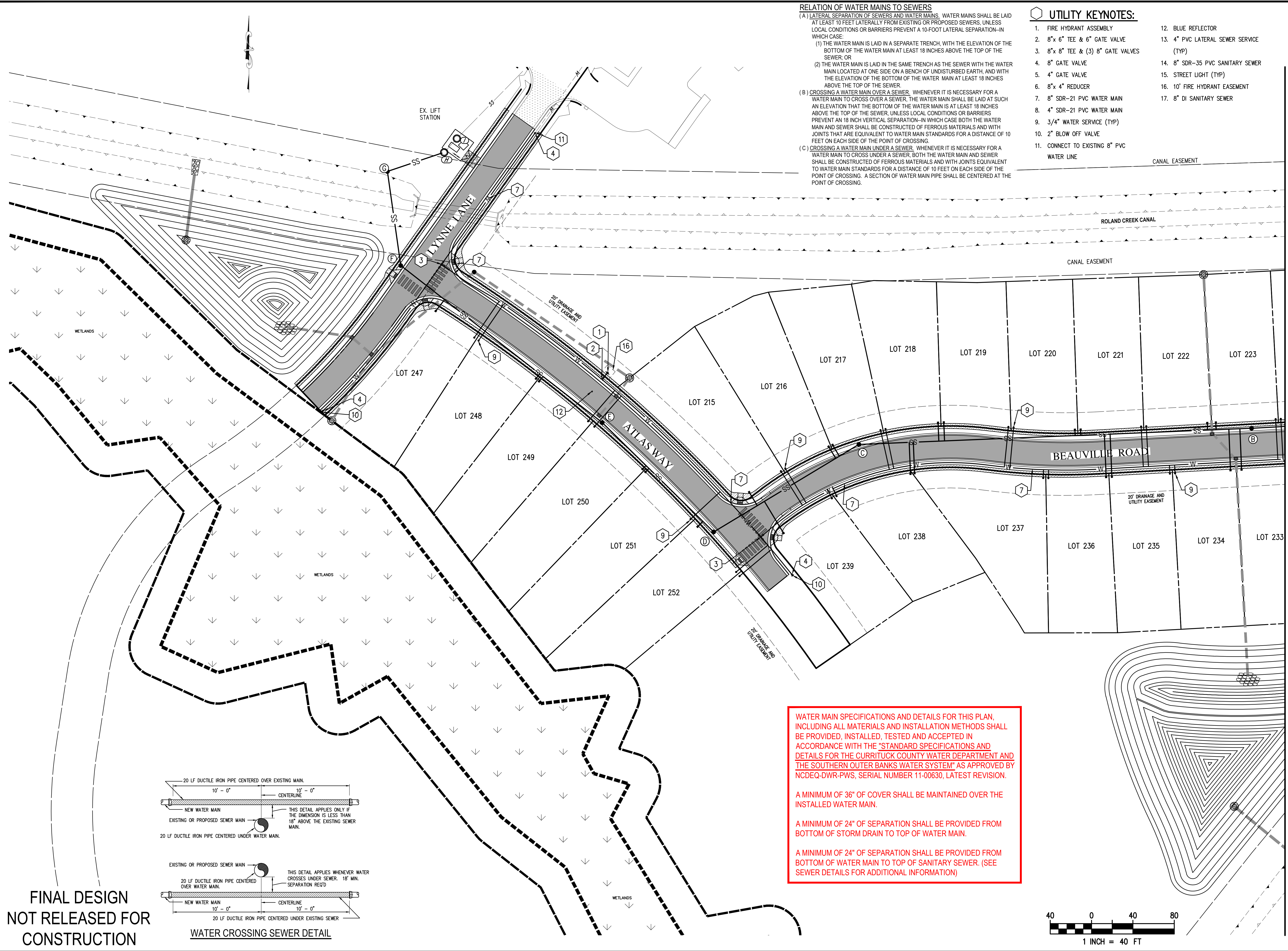
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CHECKED	CSA
APPROVED	CSA
DATE	06/17/26

REVISION	DATE	BY	DESCRIPTION

MASTER GRADING & DRAINAGE PLAN
OF
FOST PHASE 7 SUBDIVISION
CURRITUCK COUNTY, NORTH CAROLINA
MOYOCK TOWNSHIP
SHEET
CG102
6 of 20 Sheets
SCALE: 1" = 40'
PROJ. NO.: 25043

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RELATION OF WATER MAINS TO SEWERS

(A) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION—IN WHICH CASE:

(1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR

(2) THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

(B) CROSSING A WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION—IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.

(C) CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

- UTILITY KEYNOTES:**
1. FIRE HYDRANT ASSEMBLY
 2. 8" x 6" TEE & 6" GATE VALVE
 3. 8" x 8" TEE & (3) 8" GATE VALVES
 4. 8" GATE VALVE
 5. 4" GATE VALVE
 6. 8" x 4" REDUCER
 7. 8" SDR-21 PVC WATER MAIN
 8. 4" SDR-21 PVC WATER MAIN
 9. 3/4" WATER SERVICE (TYP)
 10. 2" BLOW OFF VALVE
 11. CONNECT TO EXISTING 8" PVC WATER LINE
 12. BLUE REFLECTOR
 13. 4" PVC LATERAL SEWER SERVICE (TYP)
 14. 8" SDR-35 PVC SANITARY SEWER
 15. STREET LIGHT (TYP)
 16. 10" FIRE HYDRANT EASEMENT
 17. 8" DI SANITARY SEWER

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Professional Engineer Seal for Scott E. Kelly, License No. 031728, dated 06/17/26.

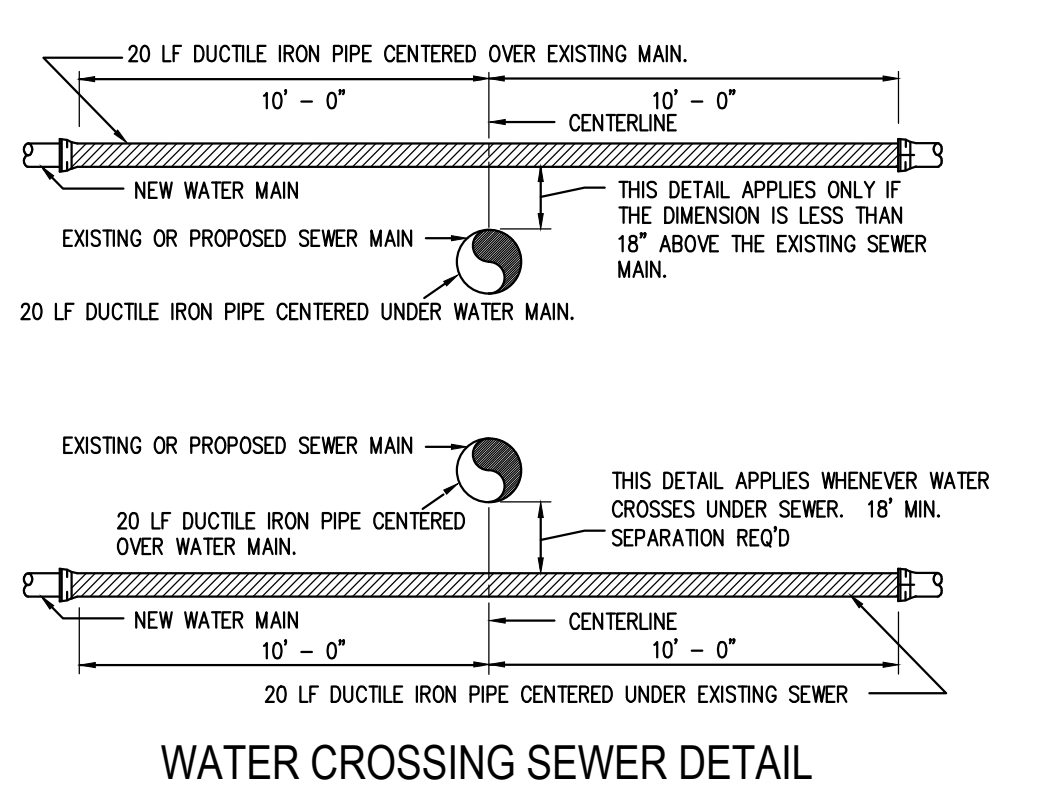
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MOYOCK TOWNSHIP
 CURRITUCK COUNTY, NORTH CAROLINA

MASTER LAYOUT & UTILITY PLAN
 OF
FOST PHASE 7 SUBDIVISION

SHEET
CS101
 7 of 20 Sheets
 SCALE: 1" = 40'
 PROJ. NO.: 25043

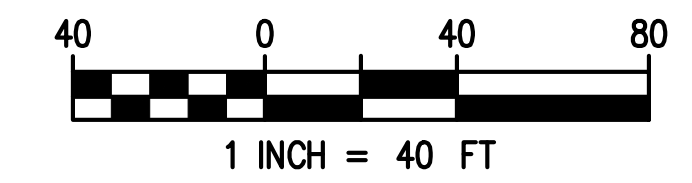


WATER MAIN SPECIFICATIONS AND DETAILS FOR THIS PLAN, INCLUDING ALL MATERIALS AND INSTALLATION METHODS SHALL BE PROVIDED, INSTALLED, TESTED AND ACCEPTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS AND DETAILS FOR THE CURRITUCK COUNTY WATER DEPARTMENT AND THE SOUTHERN OUTER BANKS WATER SYSTEM" AS APPROVED BY NCDEQ-DWR-PWS, SERIAL NUMBER 11-00630, LATEST REVISION.

A MINIMUM OF 36" OF COVER SHALL BE MAINTAINED OVER THE INSTALLED WATER MAIN.

A MINIMUM OF 24" OF SEPARATION SHALL BE PROVIDED FROM BOTTOM OF STORM DRAIN TO TOP OF WATER MAIN.

A MINIMUM OF 24" OF SEPARATION SHALL BE PROVIDED FROM BOTTOM OF WATER MAIN TO TOP OF SANITARY SEWER. (SEE SEWER DETAILS FOR ADDITIONAL INFORMATION)



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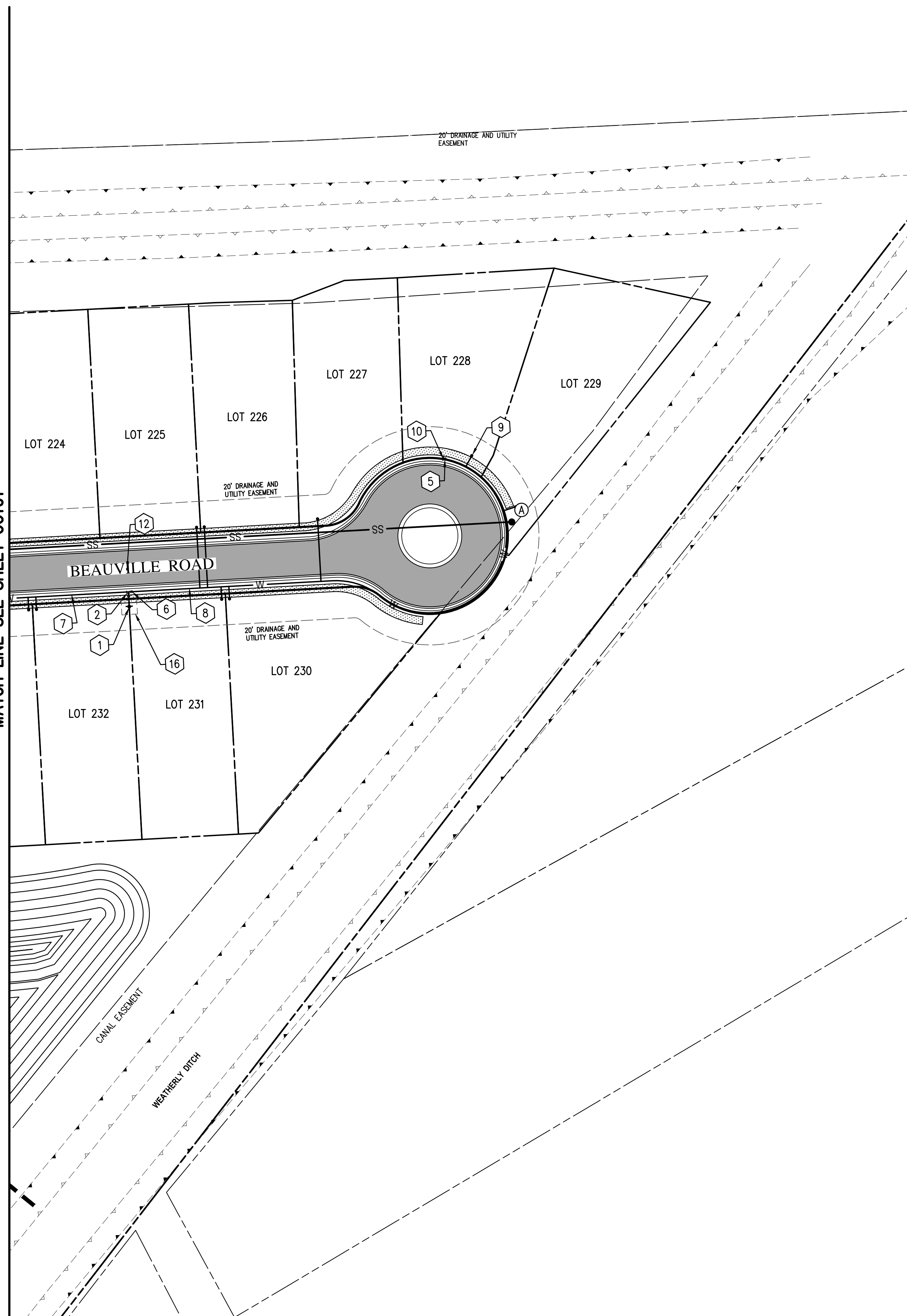
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PROPOSED SANITARY SEWER SCHEDULE	
ID	STRUCTURE & PIPE INFO
A	SS MANHOLE RIM=8.87 INV(B)=4.82 (8" SDR-35 PVC) A TO B, 355 LF - 8" SDR-35 PVC @ 0.40%
B	SS MANHOLE RIM=7.92 INV(C)=2.42 (8" DI) INV(A)=3.40 (8" SDR-35 PVC) B TO C, 380 LF - 8" DI @ 0.40%
C	SS MANHOLE RIM=8.88 INV(D)=0.80 (8" SDR-35 PVC) INV(B)=0.90 (8" DI) C TO D, 164 LF - 8" SDR-35 PVC @ 0.40%
D	SS MANHOLE RIM=9.13 INV(E)=0.05 (8" SDR-35 PVC) INV(C)=0.15 (8" SDR-35 PVC) D TO E, 151 LF - 8" SDR-35 PVC @ 0.40%
E	SS MANHOLE RIM=7.67 INV(F)=-0.65 (8" SDR-35 PVC) INV(D)=-0.55 (8" SDR-35 PVC) E TO F, 247 LF - 8" SDR-35 PVC @ 0.40%
F	SS MANHOLE RIM=8.43 INV(E)=-1.64 (8" SDR-35 PVC) INV(G)=-3.13 (8" SDR-35 PVC) F TO G, 92 LF - 8" SDR-35 PVC @ 0.40%
G	SS MANHOLE RIM=7.22 INV(H)=-3.60 (8" SDR-35 PVC) INV(F)=-3.50 (8" SDR-35 PVC) G TO H, 58 LF - 8" SDR-35 PVC @ 0.40%
H	EX. SAN. MH RIM=8.38 INV(G)=-3.83 (8" SDR-35 PVC)
I	EX. SAN. MH RIM=8.50

MATCH LINE SEE SHEET CG101



RELATION OF WATER MAINS TO SEWERS

- (A) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION-IN WHICH CASE:
- (1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - (2) THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- (B) CROSSING A WATER MAIN OVER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION-IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- (C) CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

WATER MAIN SPECIFICATIONS AND DETAILS FOR THIS PLAN, INCLUDING ALL MATERIALS AND INSTALLATION METHODS SHALL BE PROVIDED, INSTALLED, TESTED AND ACCEPTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS AND DETAILS FOR THE CURRITUCK COUNTY WATER DEPARTMENT AND THE SOUTHERN OUTER BANKS WATER SYSTEM" AS APPROVED BY NCDEQ-DWR-PWS, SERIAL NUMBER 11-00630, LATEST REVISION.

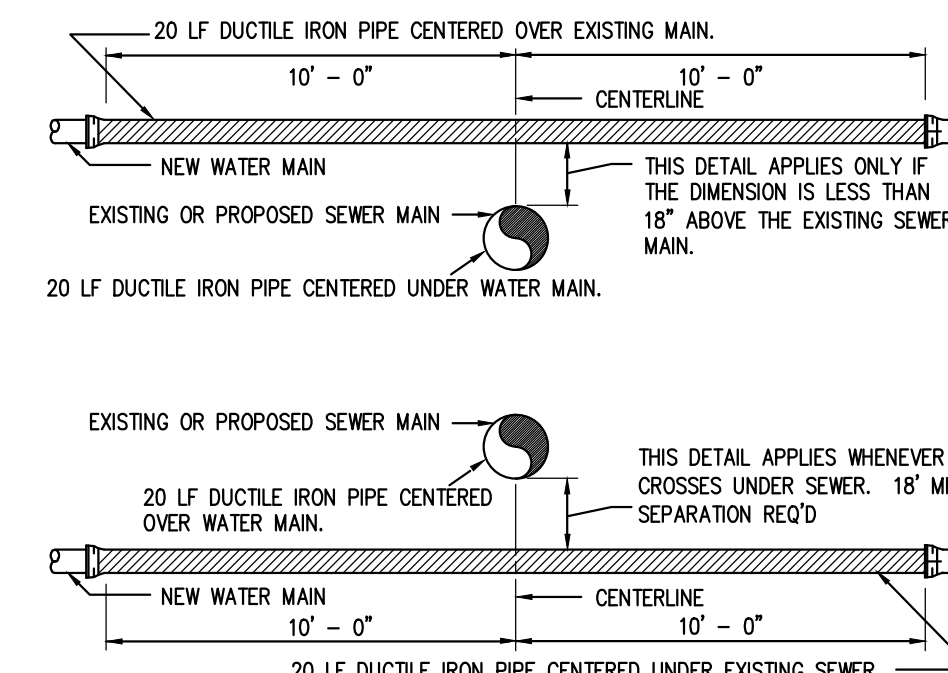
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A MINIMUM OF 24" OF SEPARATION SHALL BE PROVIDED FROM BOTTOM OF STORM DRAIN TO TOP OF WATER MAIN.

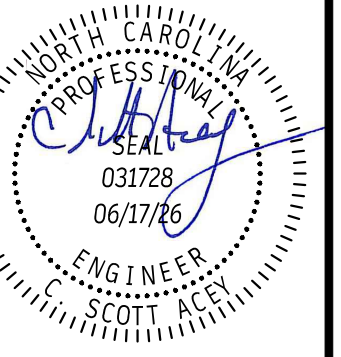
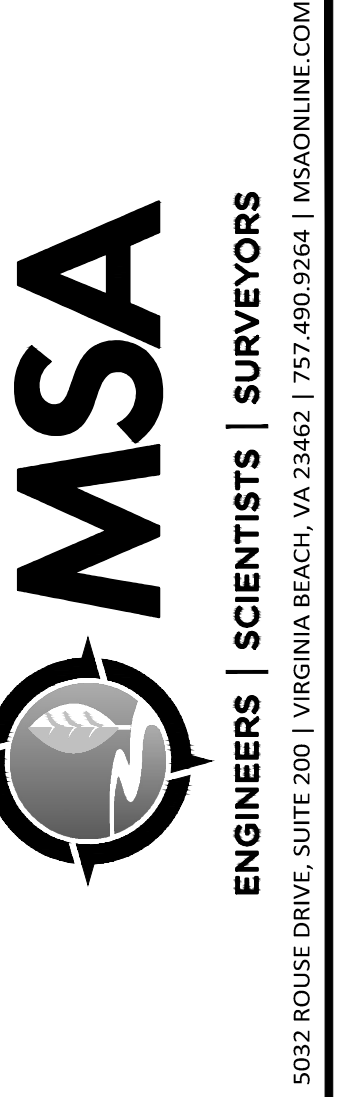
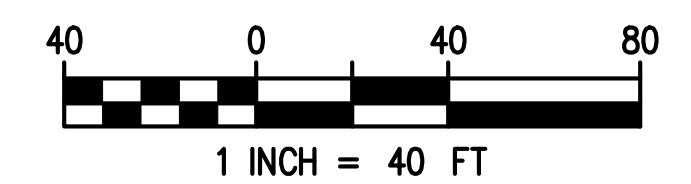
A MINIMUM OF 24" OF SEPARATION SHALL BE PROVIDED FROM BOTTOM OF WATER MAIN TO TOP OF SANITARY SEWER. (SEE SEWER DETAILS FOR ADDITIONAL INFORMATION)

UTILITY KEYNOTES:

1. FIRE HYDRANT ASSEMBLY
2. 8"x 6" TEE & 6" GATE VALVE
3. 8"x 8" TEE & (3) 8" GATE VALVES
4. 8" GATE VALVE
5. 4" GATE VALVE
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15. STREET LIGHT (TYP)
16. 10' FIRE HYDRANT EASEMENT
17. 8" DI SANITARY SEWER



WATER CROSSING SEWER DETAIL

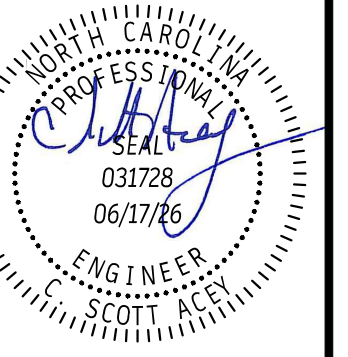


DESIGNED	JTP	DATE	06/17/26
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REVISION	NO.	DESCRIPTION

MASTER LAYOUT & UTILITY PLAN
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CURRITUCK COUNTY, NORTH CAROLINA
MOYOCK TOWNSHIP

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CS102
8 of 20 Sheets
SCALE: 1" = 40'
PROJ. NO.: 25043

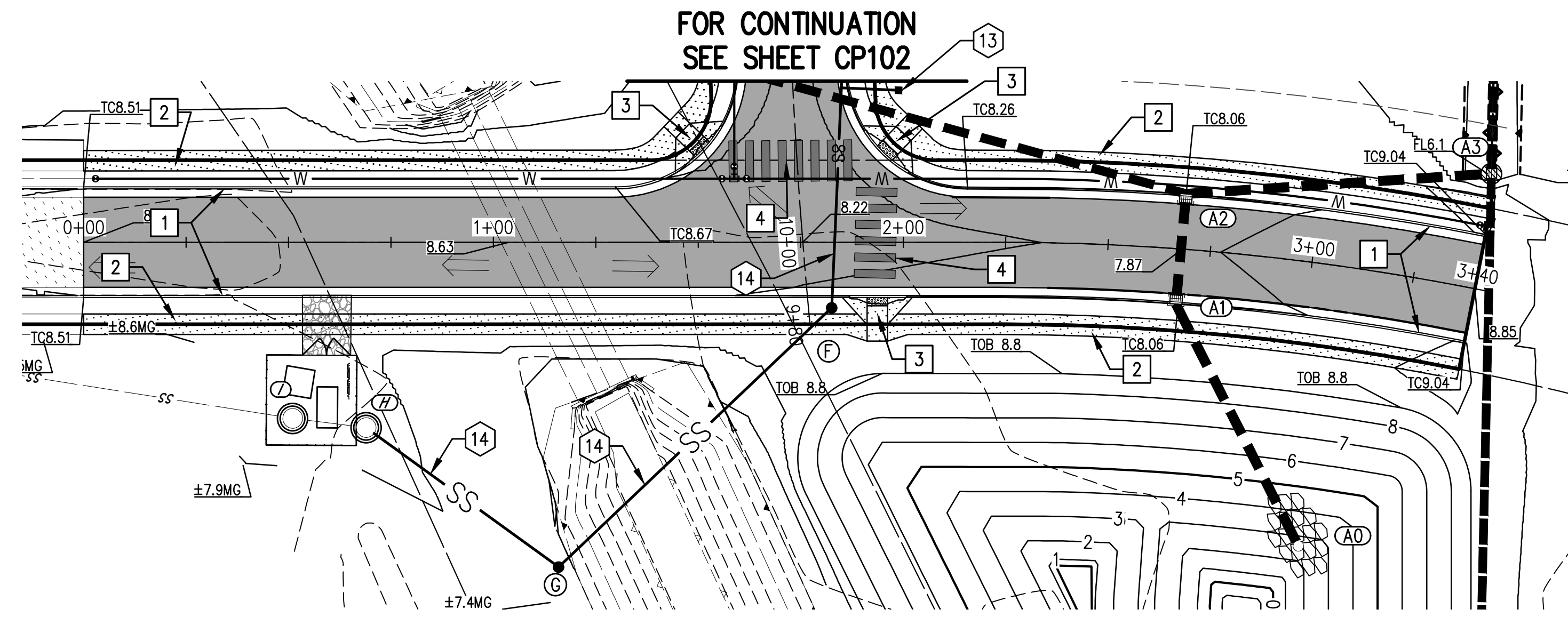


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CHECKED	CSA
APPROVED	CSA
DATE	06/17/26

REVISION	NO.	DESCRIPTION

PLAN & PROFILE OF
FOST PHASE 7 SUBDIVISION

CURRITUCK COUNTY, NORTH CAROLINA
MOYOCK TOWNSHIP



LYNNE LANE (40' R/W)

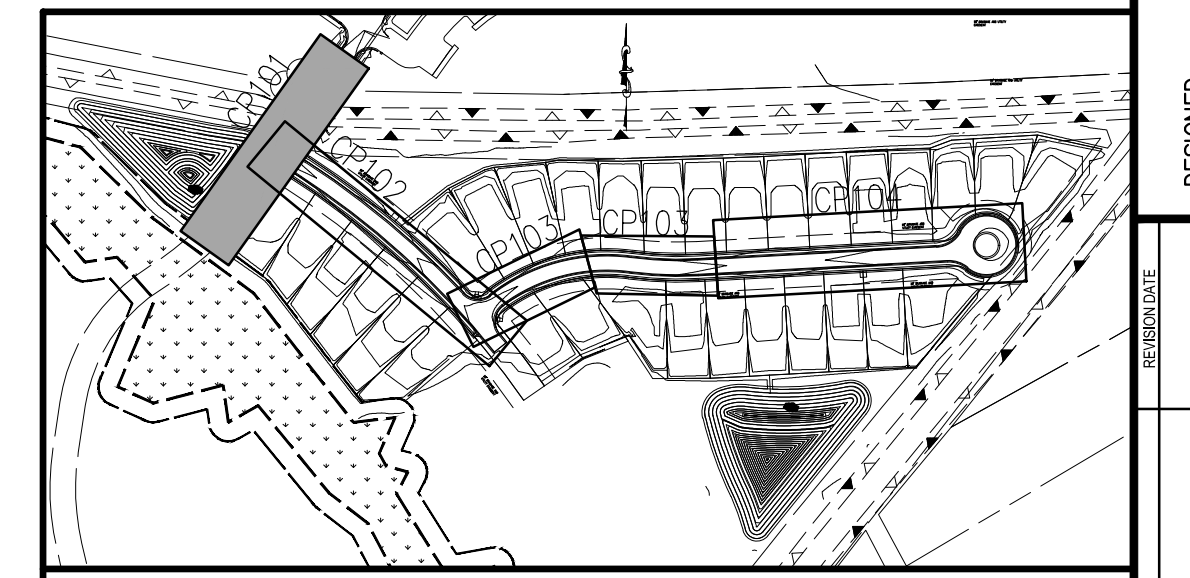
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UTILITY KEYNOTES:

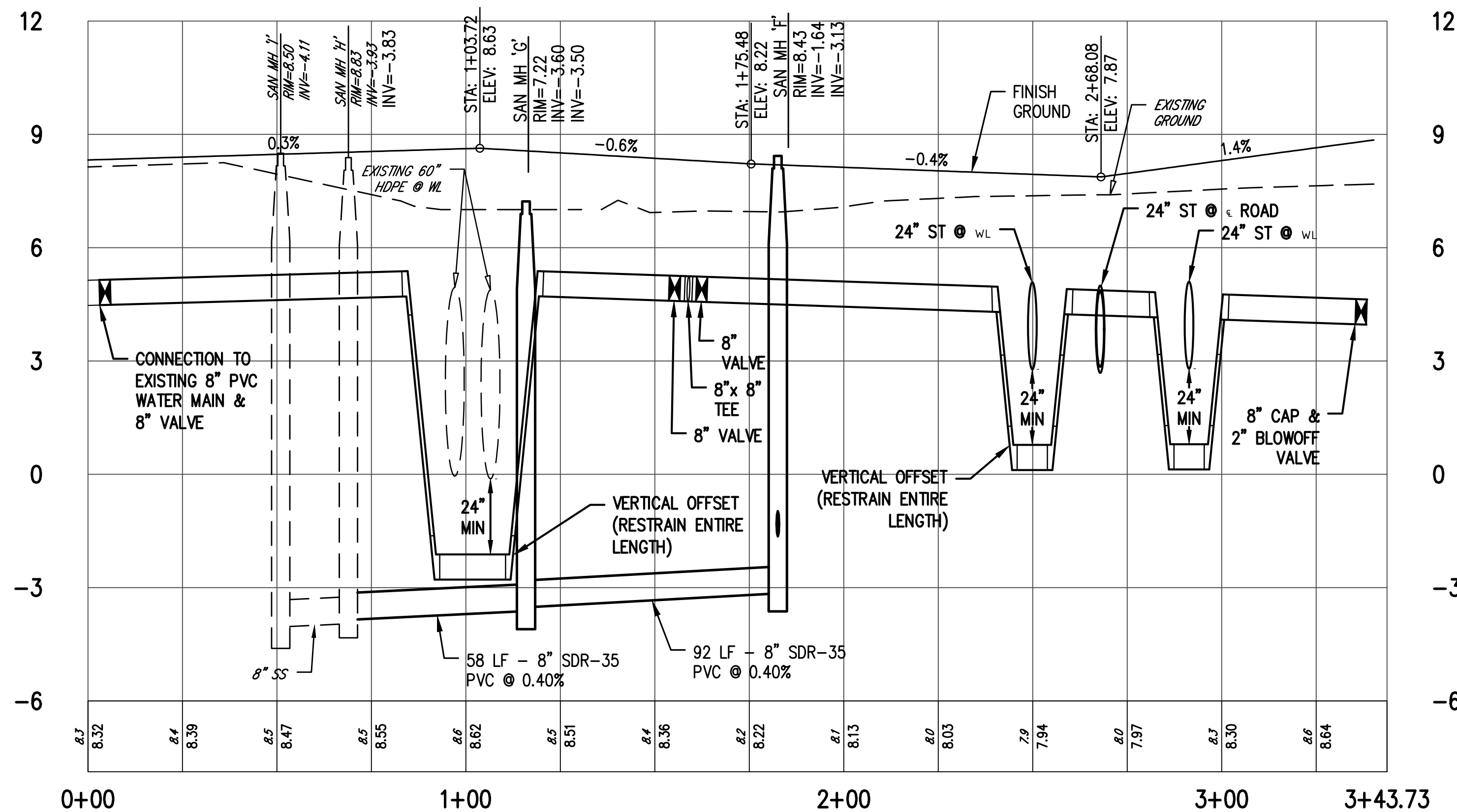
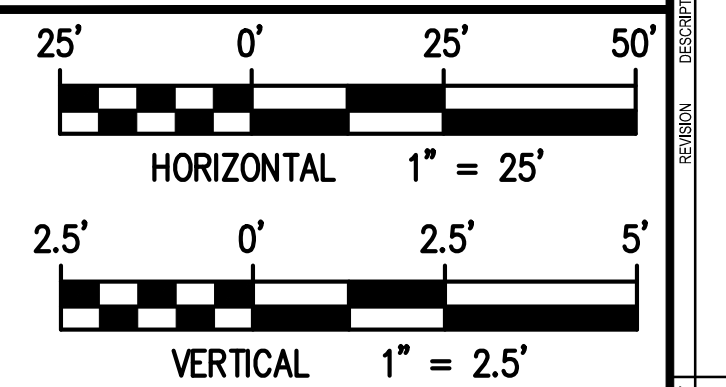
- 1. FIRE HYDRANT ASSEMBLY
- 2. 8" x 6" TEE & 6" GATE VALVE
- 3. 8" x 8" TEE & (3) 8" GATE VALVES
- 4. 8" GATE VALVE
- 5. 4" GATE VALVE
- 6. 8" x 4" REDUCER
- 7. 8" SDR-21 PVC WATER MAIN
- 8. 4" SDR-21 PVC WATER MAIN
- 9. 3/4" WATER SERVICE (TYP)
- 10. 2" BLOW OFF VALVE
- 11. CONNECT TO EXISTING 8" PVC WATER LINE
- 12. BLUE REFLECTOR
- 13. 4" PVC LATERAL SEWER SERVICE (TYP)
- 14. 8" SDR-35 PVC SANITARY SEWER
- 15. STREET LIGHT (TYP)
- 16. 10' FIRE HYDRANT EASEMENT
- 17. 8" DI SANITARY SEWER

NEW WORK KEYNOTES:

- 1. CURB & GUTTER
- 2. 5' CONCRETE SIDEWALK
- 3. ACCESSIBLE RAMP (TYP)
- 4. PEDESTRIAN CROSSWALK (TYP)
- 5. CURB & GUTTER VALLEY
- 6. STANDARD ROLLED CURB
- 7. CURB & GUTTER TRANSITION (TYP)

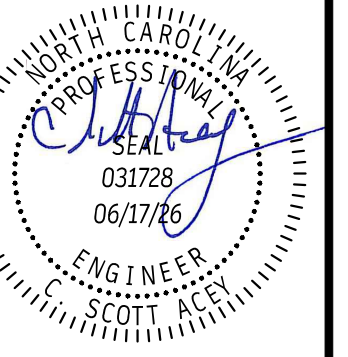


KEY MAP

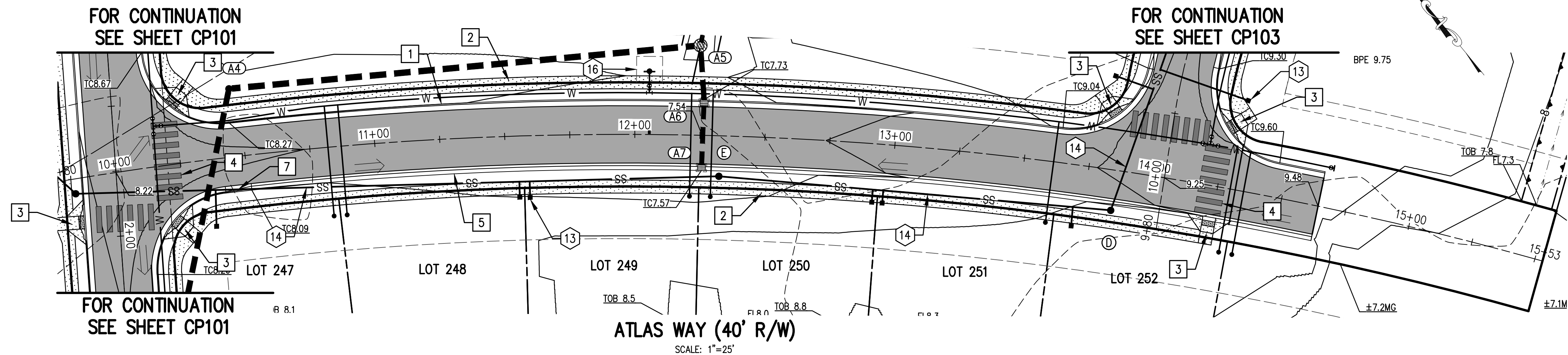


NOTE:
ALL WATER LINE INSTALLATION IS TO USE RESTRAINED JOINTS IN ACCORDANCE WITH CONCRETE THRUST BLOCKING DETAILS AS SHOWN ON SHEET C-506

**FINAL DESIGN
NOT RELEASED FOR
CONSTRUCTION**



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APPROVED	CSA
DATE	06/17/26

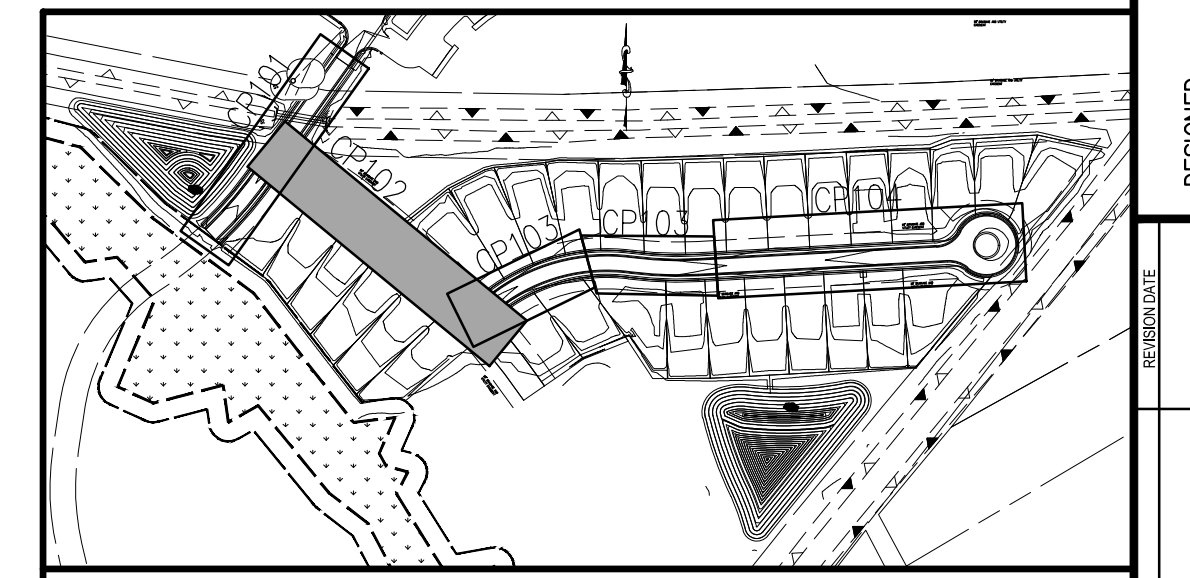


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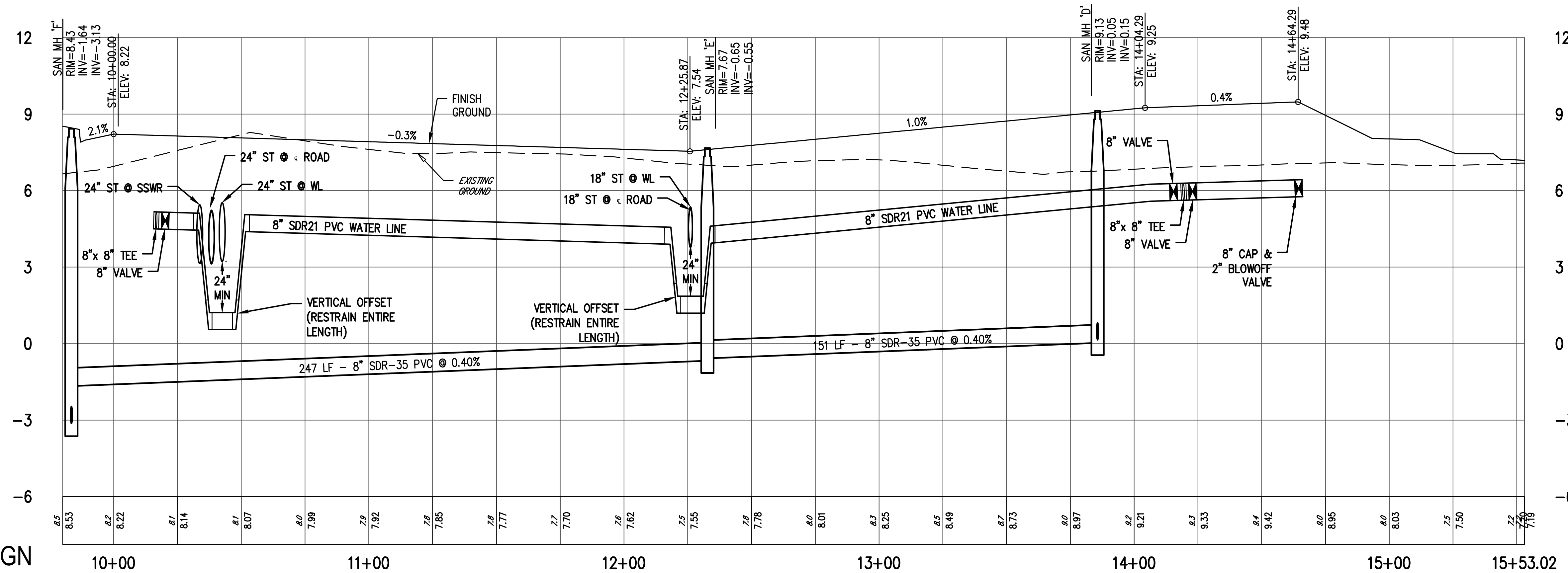
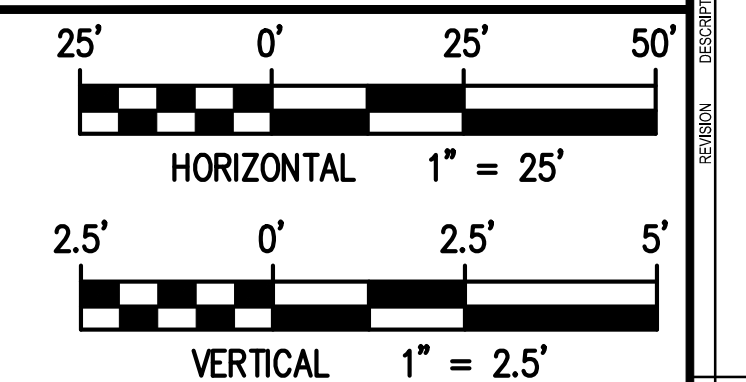
- | | |
|---|--|
| 1. FIRE HYDRANT ASSEMBLY | 12. BLUE REFLECTOR |
| 2. 8" x 6" TEE & 6" GATE VALVE | 13. 4" PVC LATERAL SEWER SERVICE (TYP) |
| 3. 8" x 8" TEE & (3) 8" GATE VALVES | 14. 8" SDR-35 PVC SANITARY SEWER |
| 4. 8" GATE VALVE | 15. STREET LIGHT (TYP) |
| 5. 4" GATE VALVE | 16. 10' FIRE HYDRANT EASEMENT |
| 6. 8" x 4" REDUCER | 17. 8" DI SANITARY SEWER |
| 7. 8" SDR-21 PVC WATER MAIN | |
| 8. 4" SDR-21 PVC WATER MAIN | |
| 9. 3/4" WATER SERVICE (TYP) | |
| 10. 2" BLOW OFF VALVE | |
| 11. CONNECT TO EXISTING 8" PVC WATER LINE | |

NEW WORK KEYNOTES:

- CURB & GUTTER
- 5' CONCRETE SIDEWALK
- ACCESSIBLE RAMP (TYP)
- PEDESTRIAN CROSSWALK (TYP)
- CURB & GUTTER VALLEY
- STANDARD ROLLED CURB
- CURB & GUTTER TRANSITION (TYP)



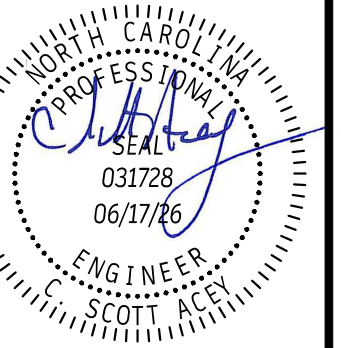
KEY MAP



NOTE:
ALL WATER LINE INSTALLATION IS TO USE RESTRAINED JOINTS IN ACCORDANCE WITH CONCRETE THRUST BLOCKING DETAILS AS SHOWN ON SHEET C-306

FINAL DESIGN
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CONSTRUCTION

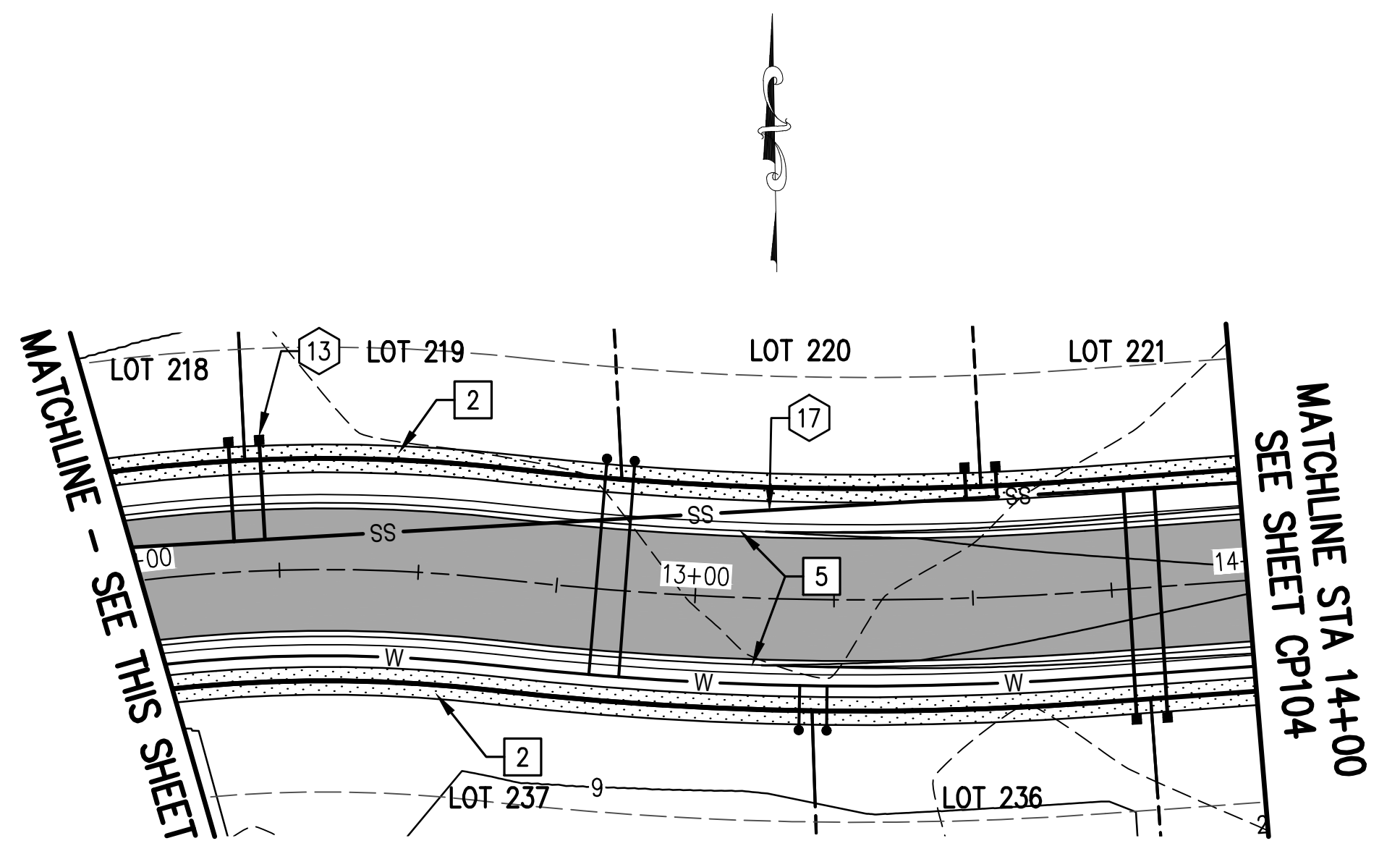
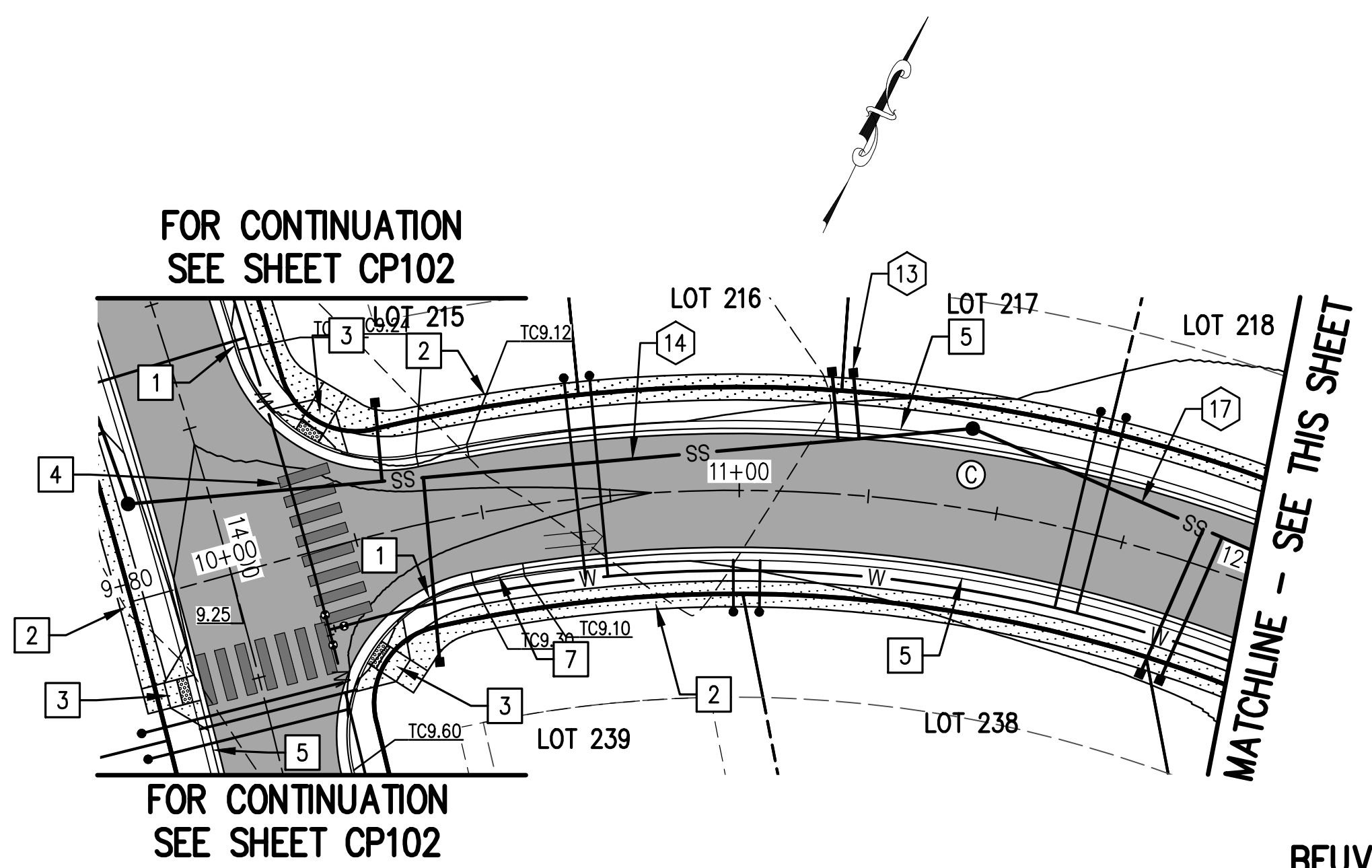
PLAN & PROFILE
OF
FOST PHASE 7 SUBDIVISION
CURRITUCK COUNTY, NORTH CAROLINA
MOYOCK TOWNSHIP



DESIGNED	JTP	DATE	06/17/26
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CHECKED	CSA		
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REVISION	NO.	DESCRIPTION

PLAN & PROFILE OF
FOST PHASE 7 SUBDIVISION
 CURRITUCK COUNTY, NORTH CAROLINA
 MOYOCK TOWNSHIP



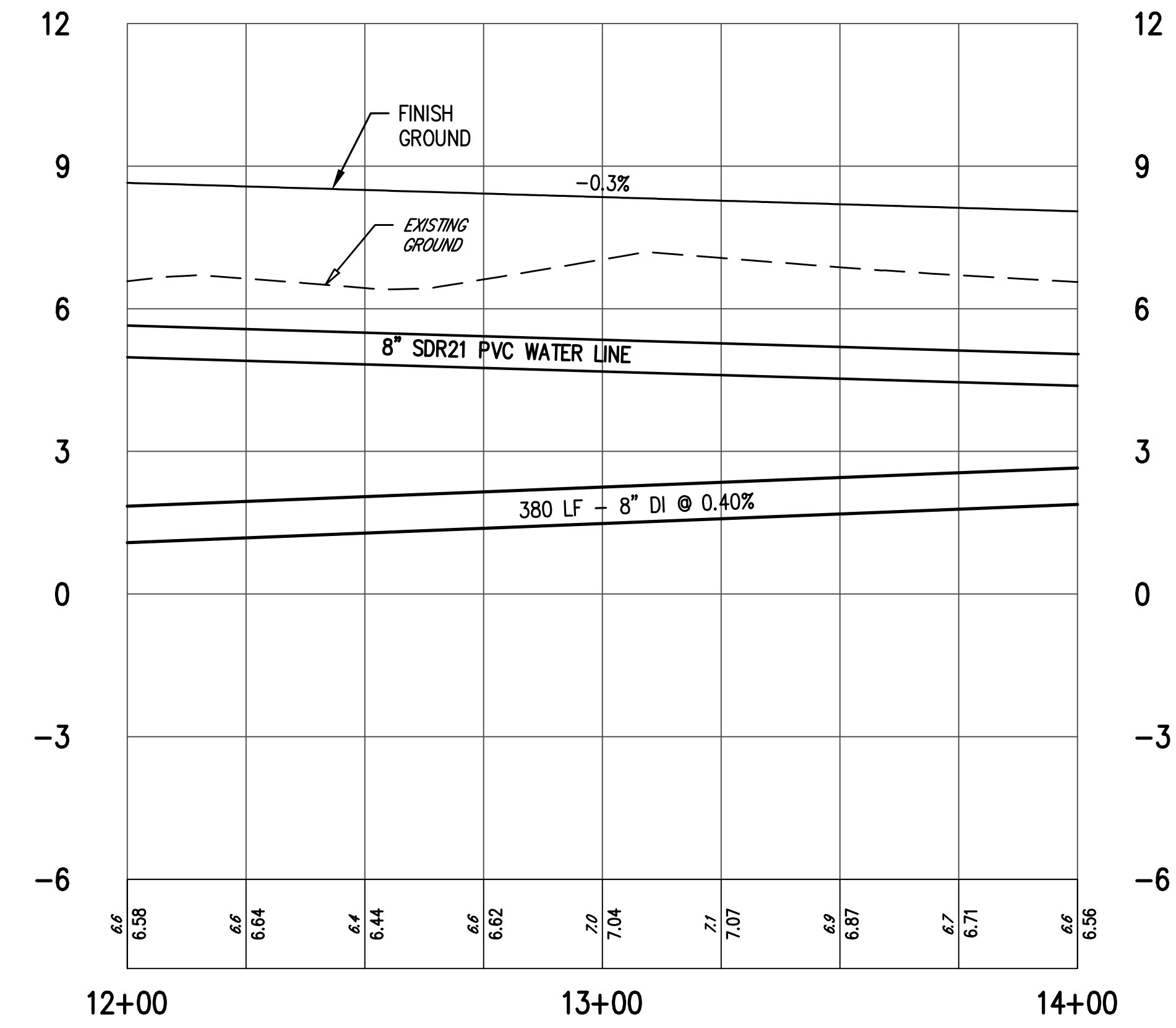
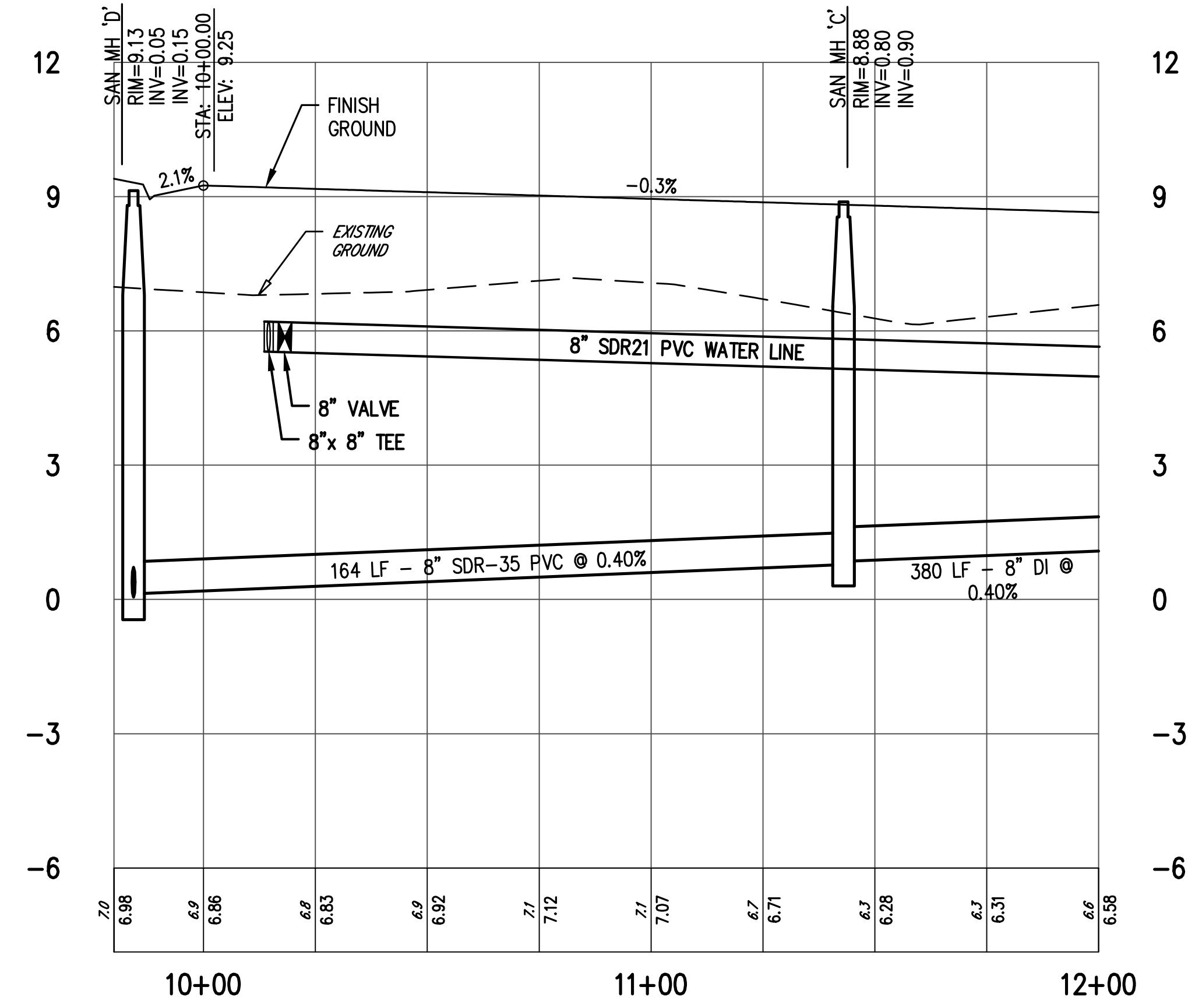
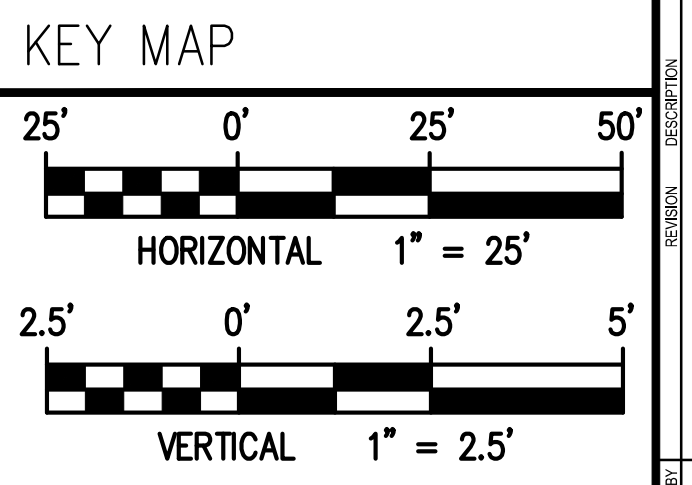
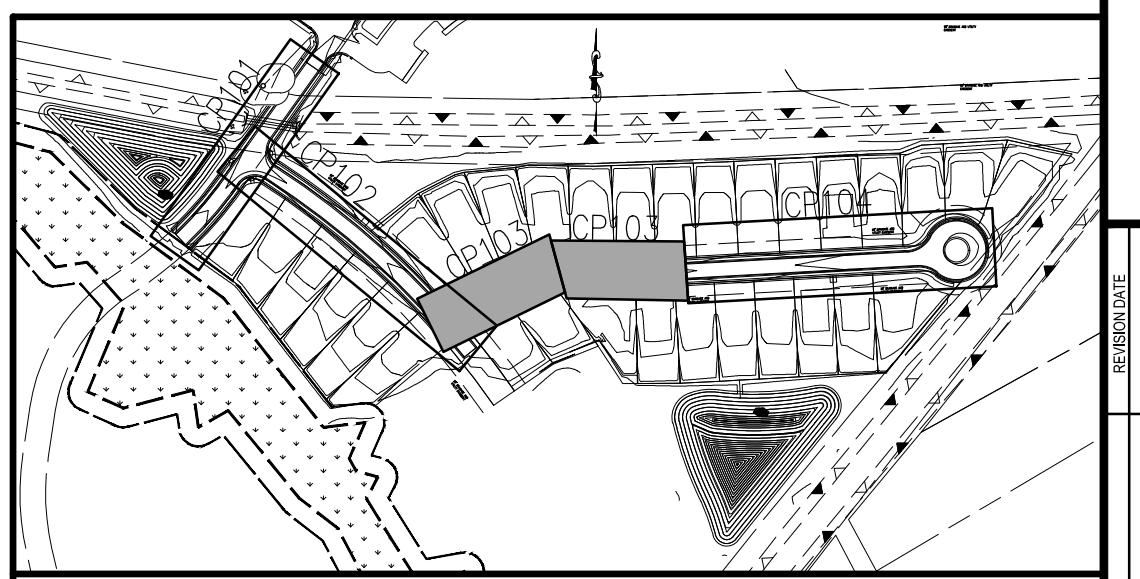
BEUVILLE ROAD (40' R/W)
 SCALE: 1"=25'

UTILITY KEYNOTES:

- | | |
|---|--|
| 1. FIRE HYDRANT ASSEMBLY | 12. BLUE REFLECTOR |
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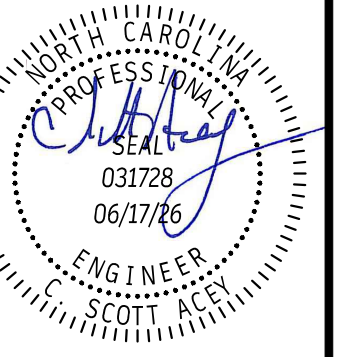
- CURB & GUTTER
- 5' CONCRETE SIDEWALK
- ACCESSIBLE RAMP (TYP)
- PEDESTRIAN CROSSWALK (TYP)
- CURB & GUTTER VALLEY
- STANDARD ROLLED CURB
- CURB & GUTTER TRANSITION (TYP)



NOTE:
 ALL WATER LINE INSTALLATION IS TO USE RESTRAINED JOINTS IN ACCORDANCE WITH CONCRETE THRUST BLOCKING DETAILS AS SHOWN ON SHEET C-508

FINAL DESIGN
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 CONSTRUCTION

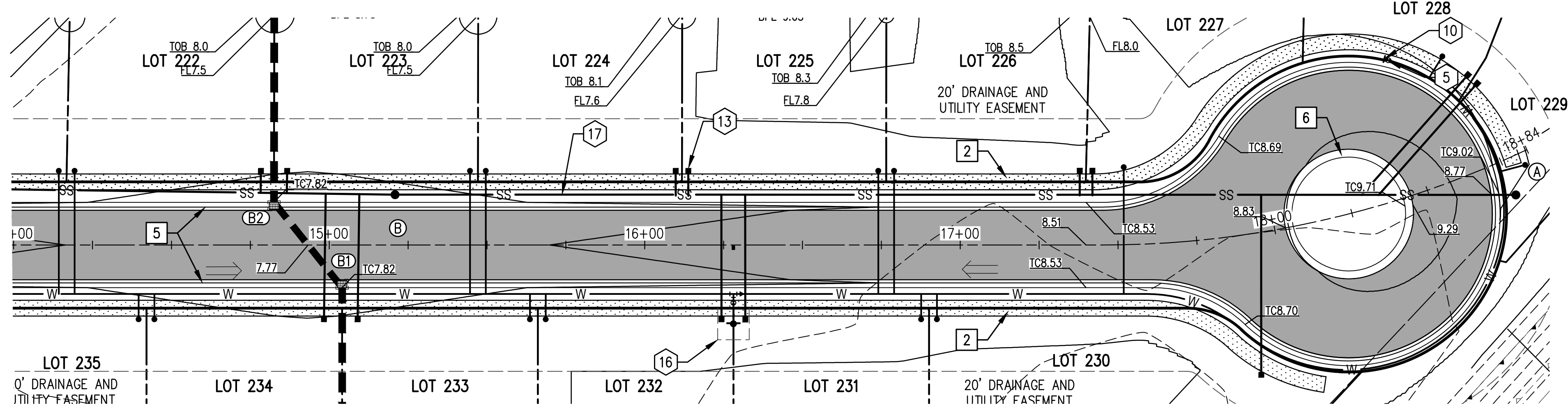
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PLAN & PROFILE OF
FOST PHASE 7 SUBDIVISION
CURRITUCK COUNTY, NORTH CAROLINA
MOYOCK TOWNSHIP



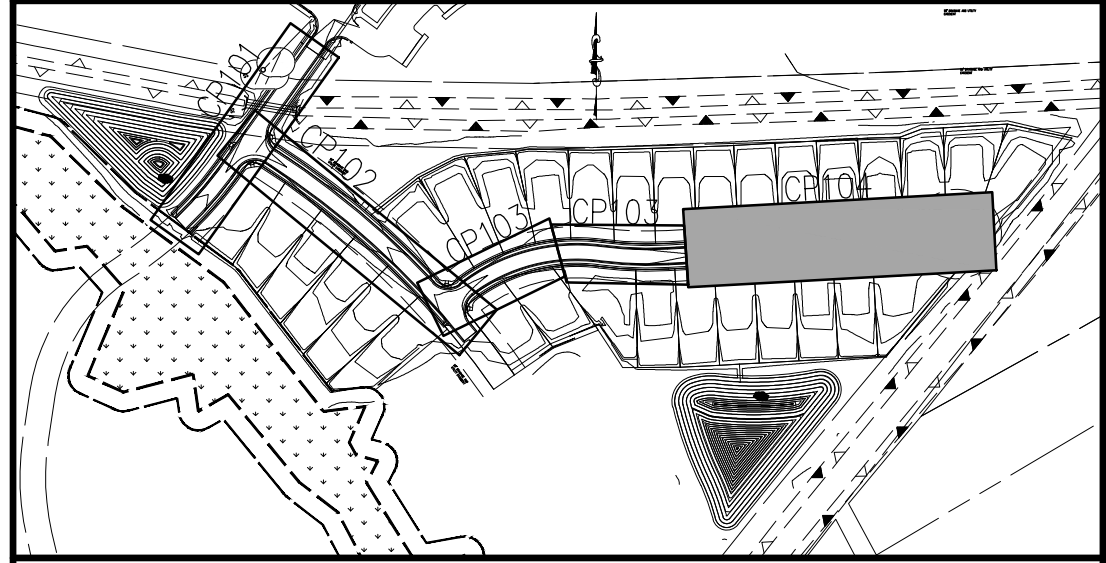
BEUVILLE ROAD (40' R/W)
SCALE: 1"=25'

UTILITY KEYNOTES:

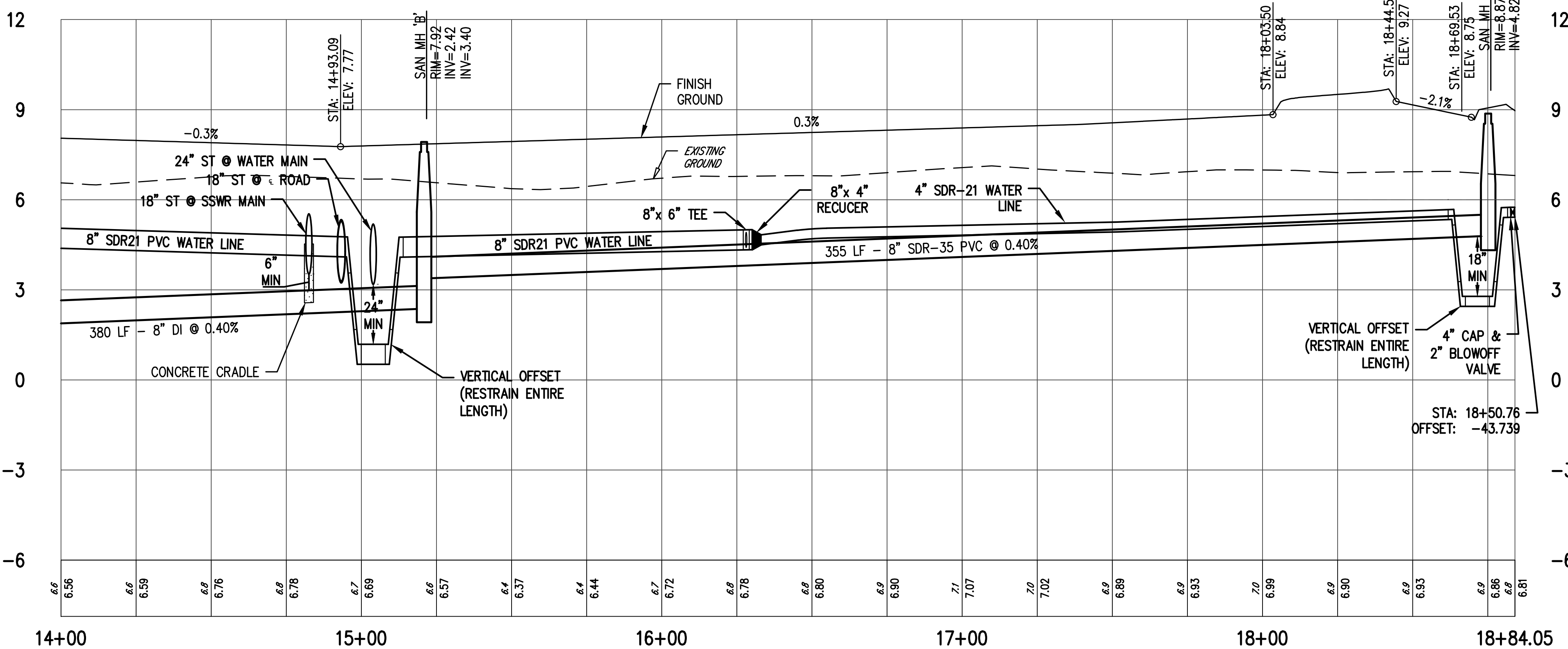
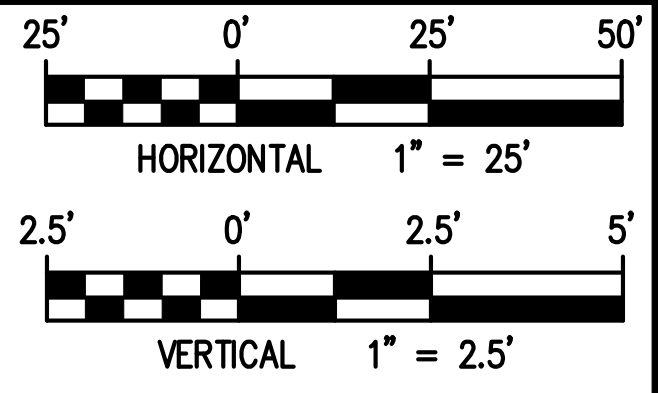
1. FIRE HYDRANT ASSEMBLY
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5. CURB & GUTTER VALLEY
6. STANDARD ROLLED CURB
7. CURB & GUTTER TRANSITION (TYP)

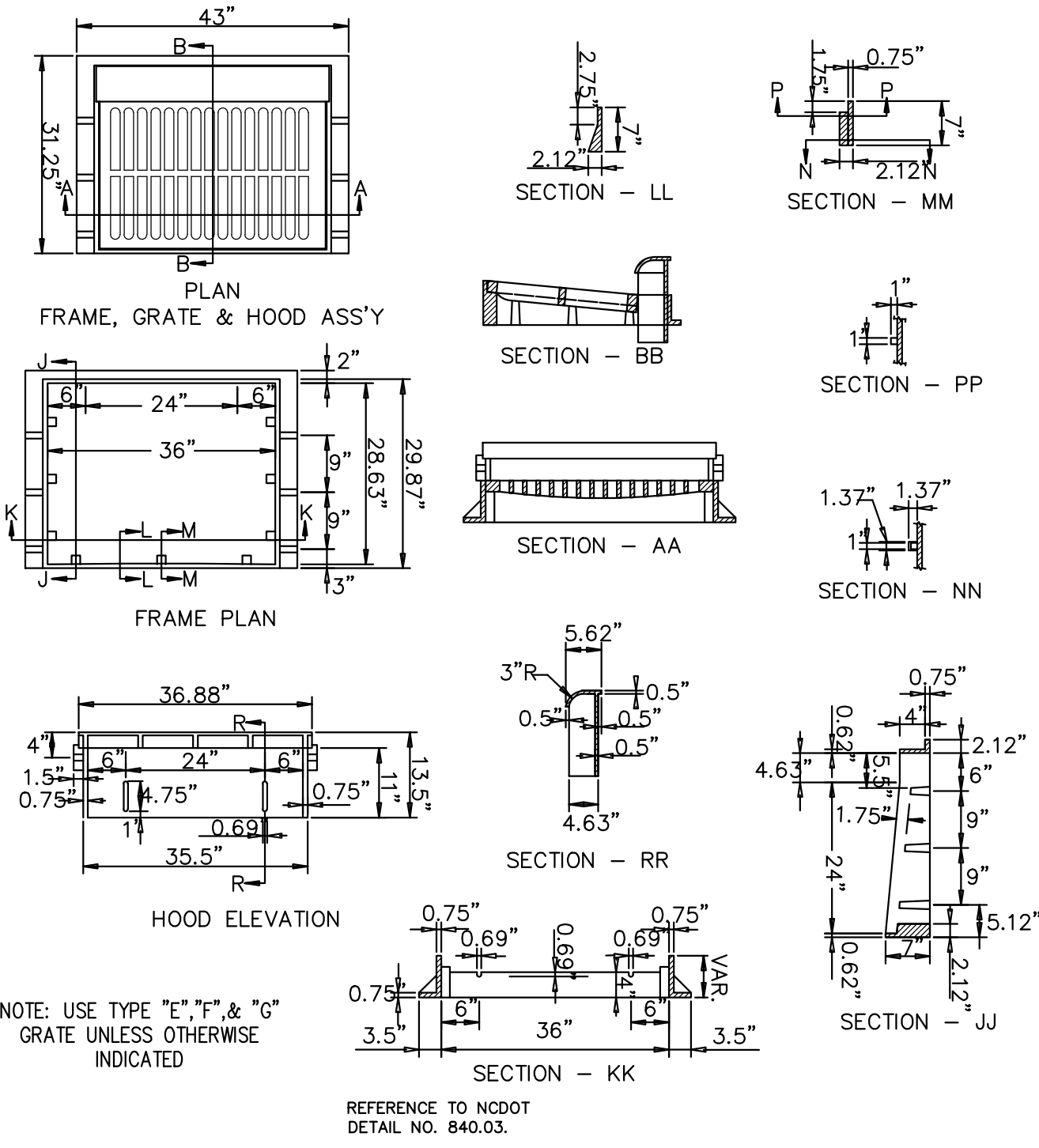


KEY MAP

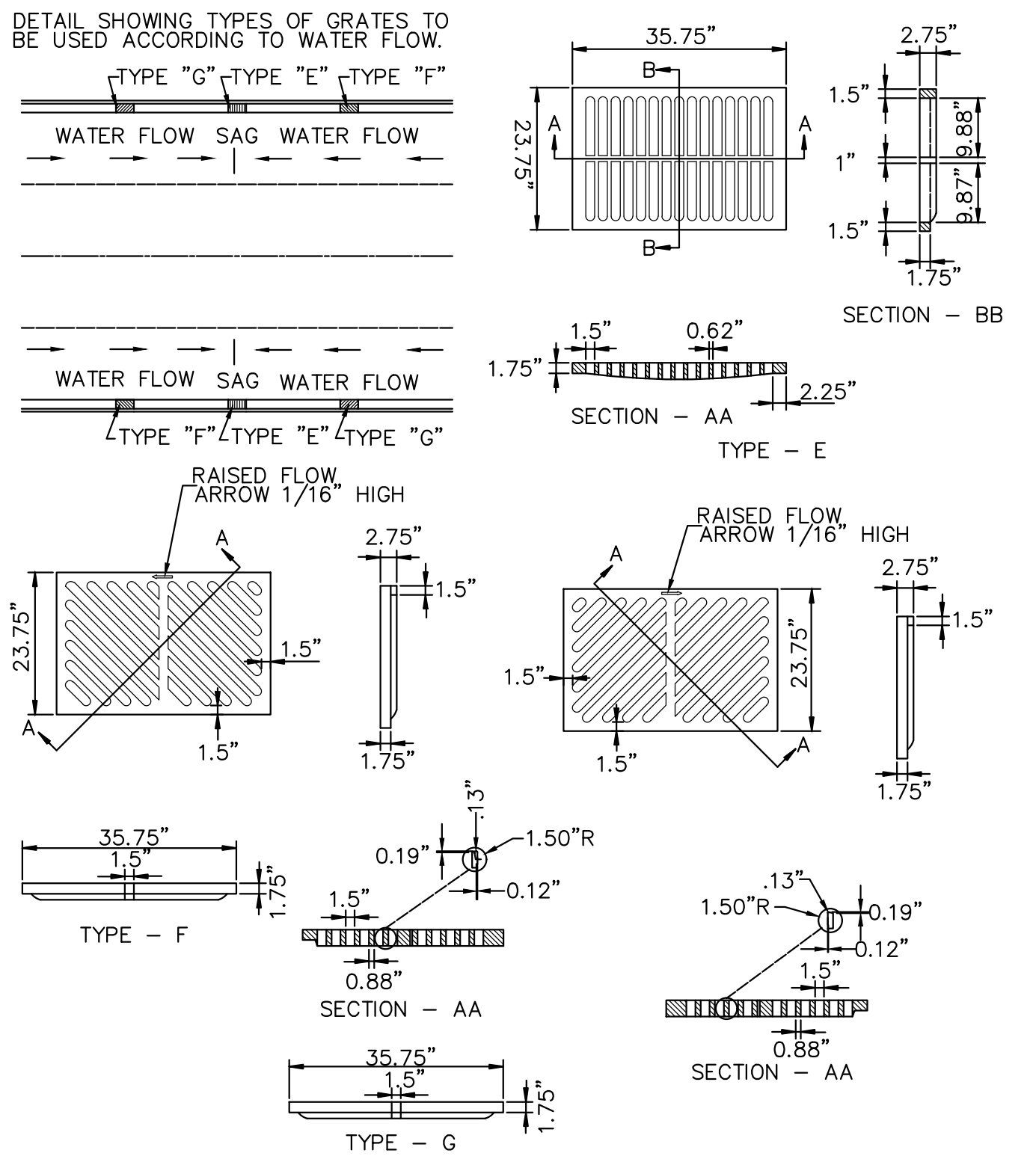


NOTE:
ALL WATER LINE INSTALLATION IS TO USE RESTRAINED JOINTS IN ACCORDANCE WITH CONCRETE THRUST BLOCKING DETAILS AS SHOWN ON SHEET C-506

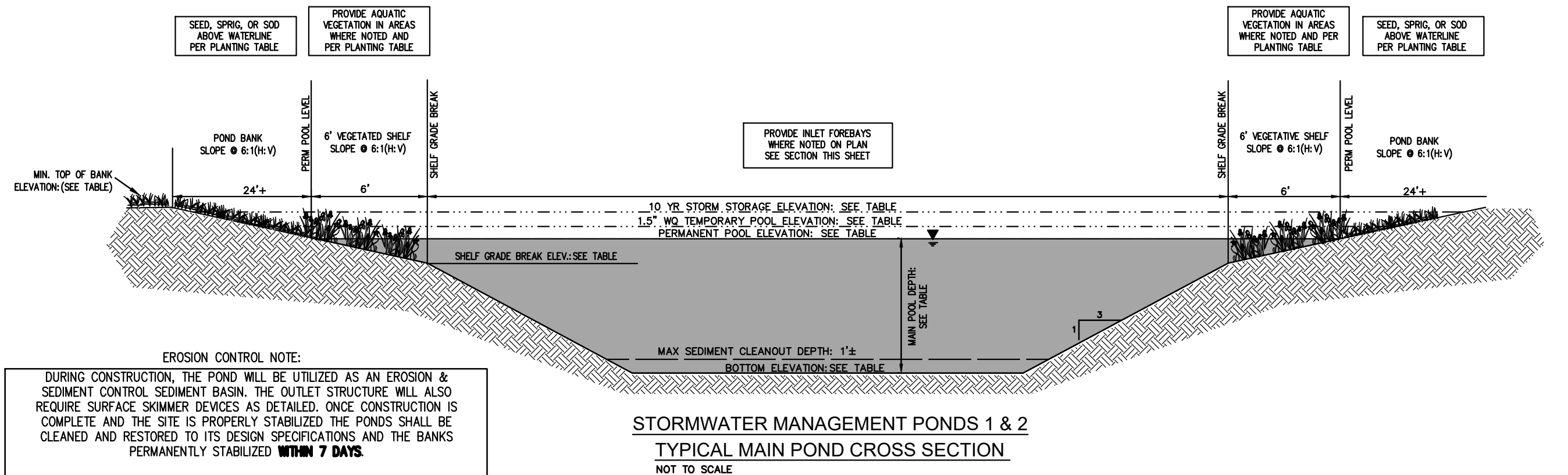
FINAL DESIGN
NOT RELEASED FOR
CONSTRUCTION



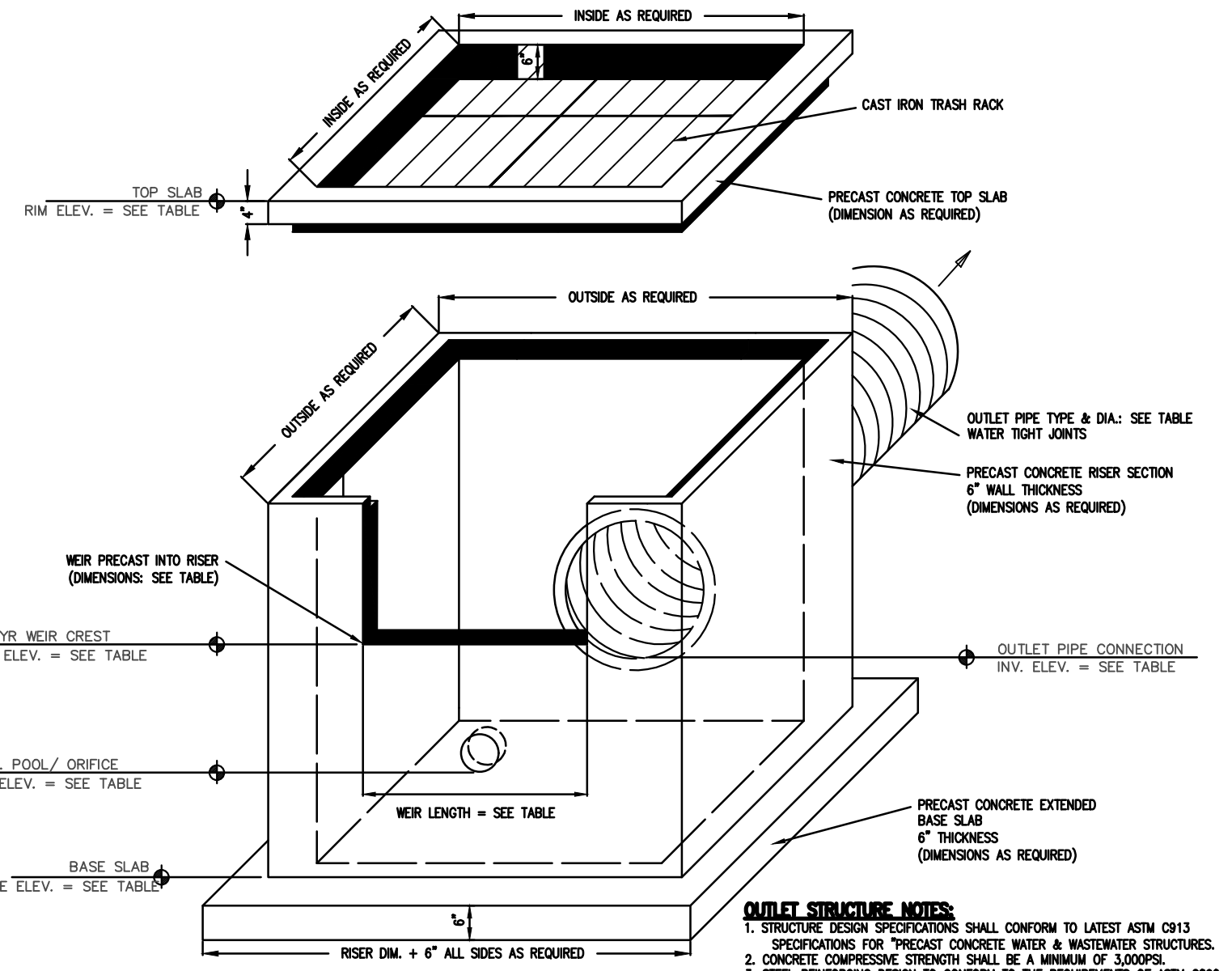
CATCH BASIN FRAME, GRATE & HOOD DETAIL
NOT TO SCALE NCDOT STD 840.03



CATCH BASIN GRATE DETAIL
NOT TO SCALE NCDOT STD 840.03B

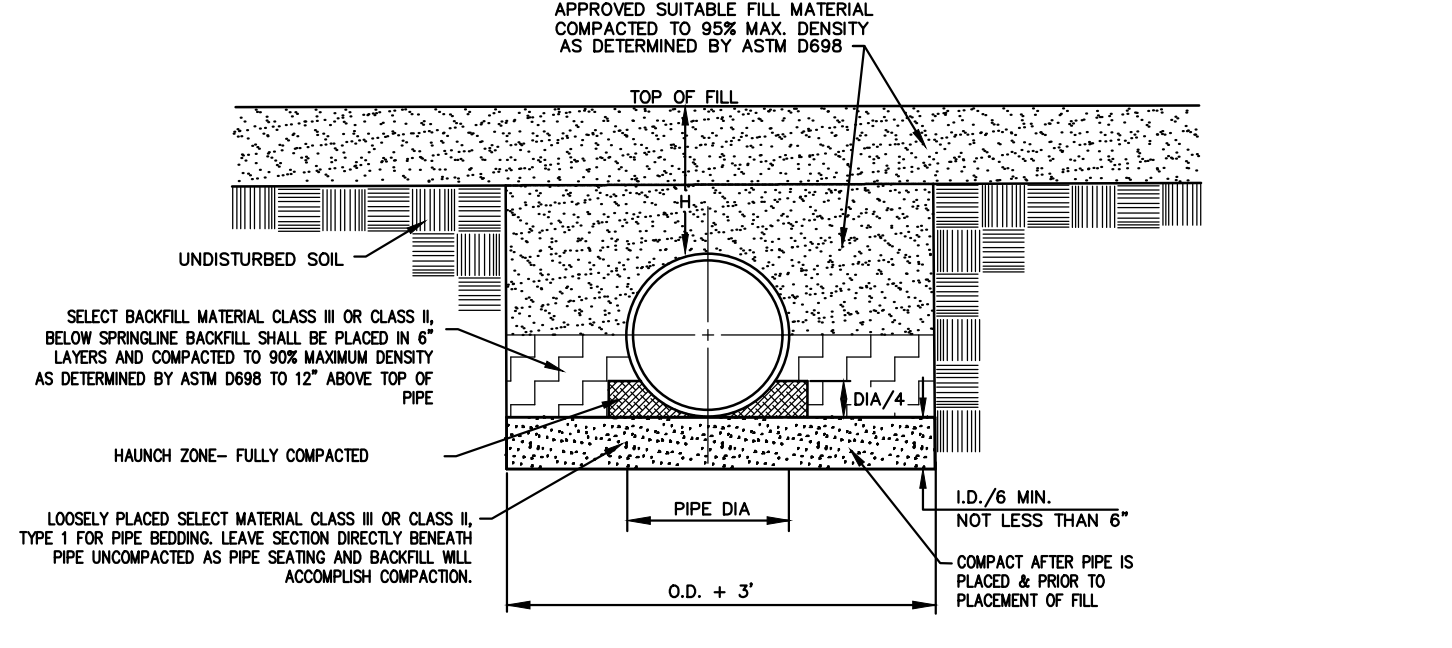
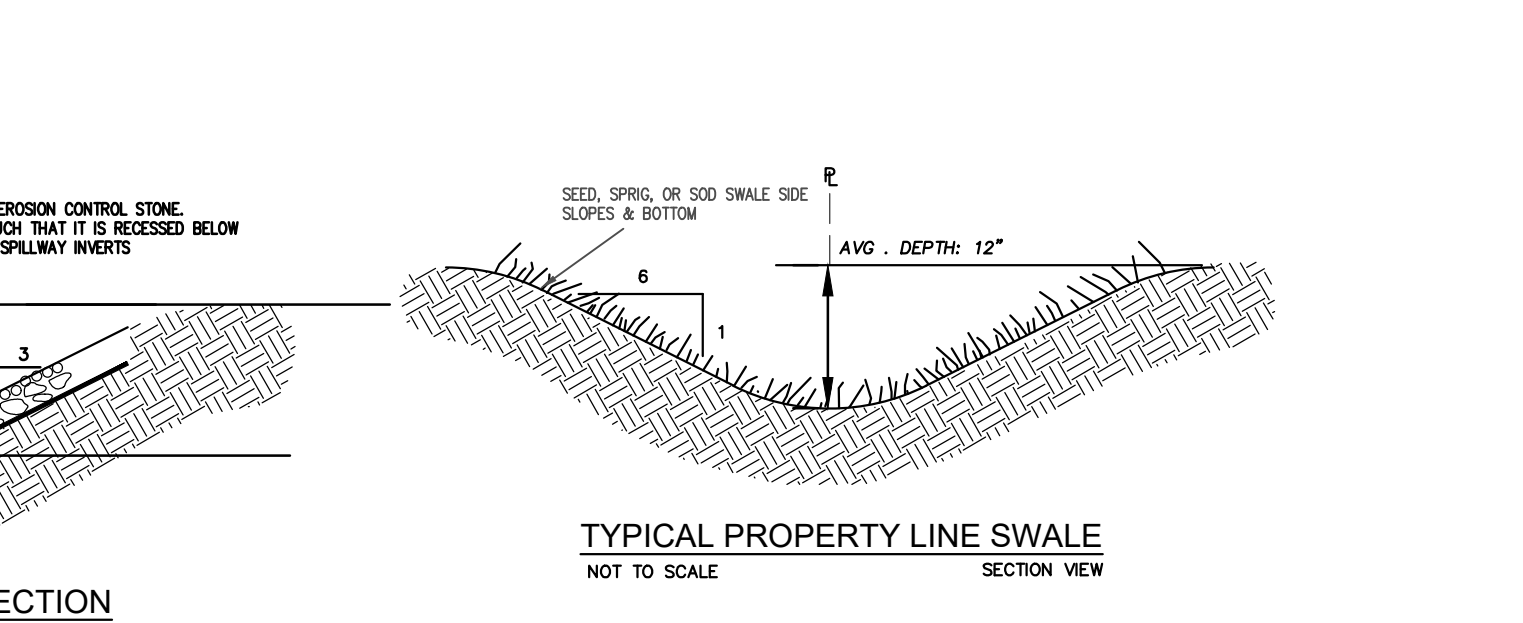
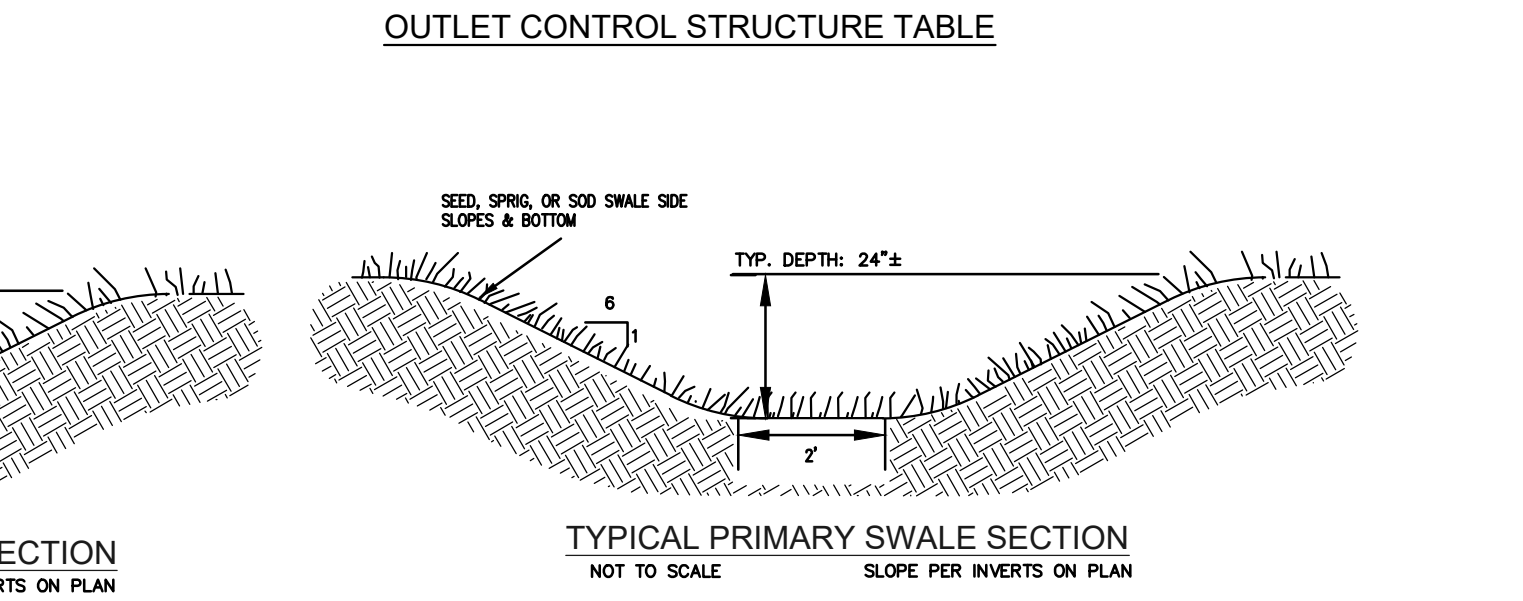


STORMWATER POND	TOP ELEV. (FMSL)	100% STORM STAGE (FMSL)	10% STORM STAGE (FMSL)	PERM. POOL ELEV. (FMSL)	SHELF BREAK ELEV. (FMSL)	BOTTOM POND ELEV. (FMSL)	DEPTH (FT)	SIDE SLOPE ABOVE SHELF	SIDE SLOPE BELOW SHELF
1	7.67	6.69	5.45	2.5	0.5±	-11.0±	18.67±	6:1	3:1
2	8.60	7.82	6.07	2.5	0.5±	-1.50±	10.30±	6:1	3:1

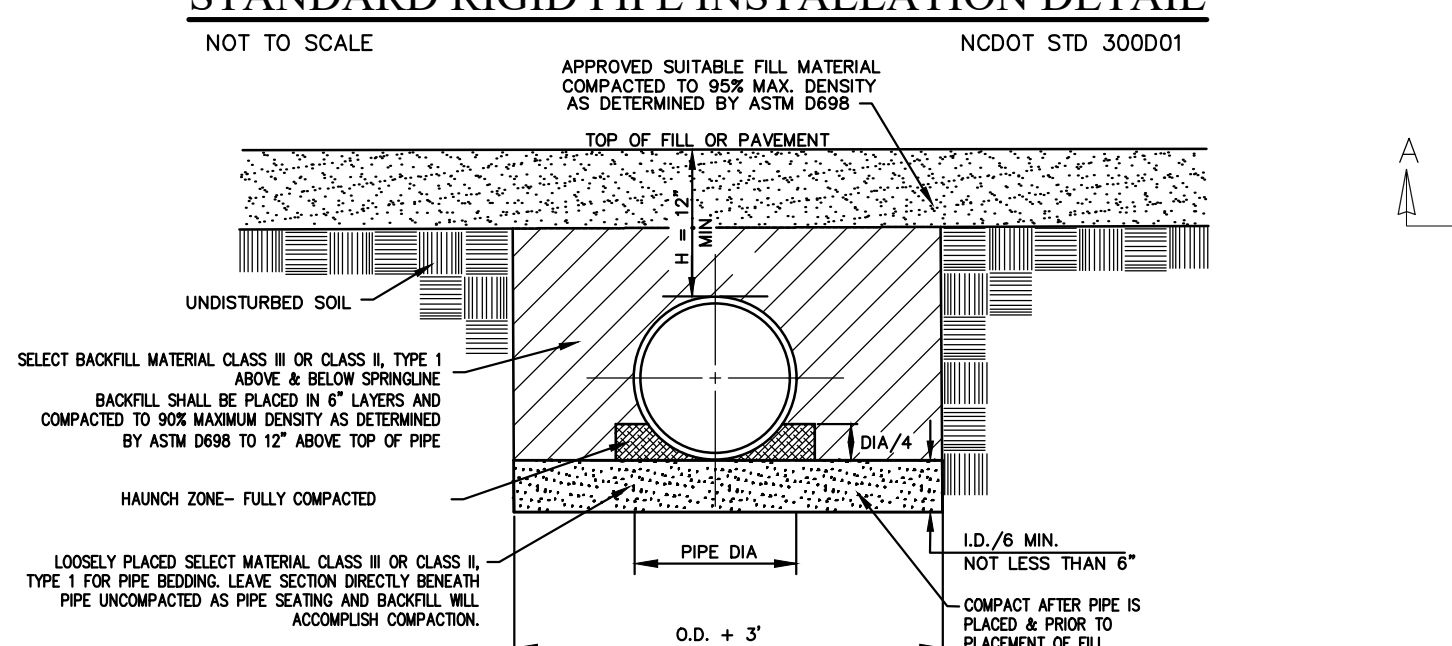


OUTLET CONTROL STRUCTURE TABLE

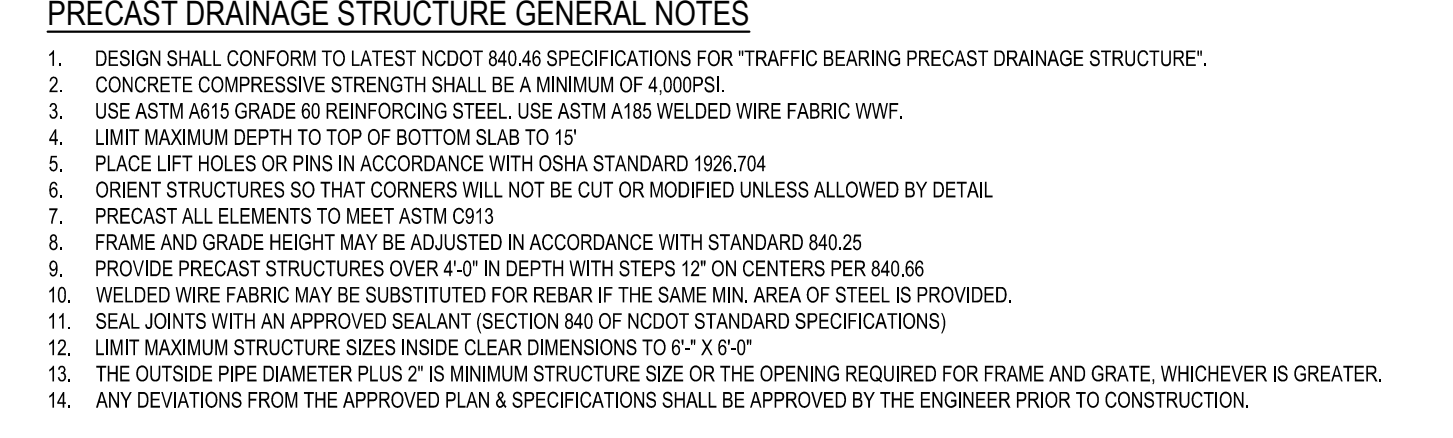
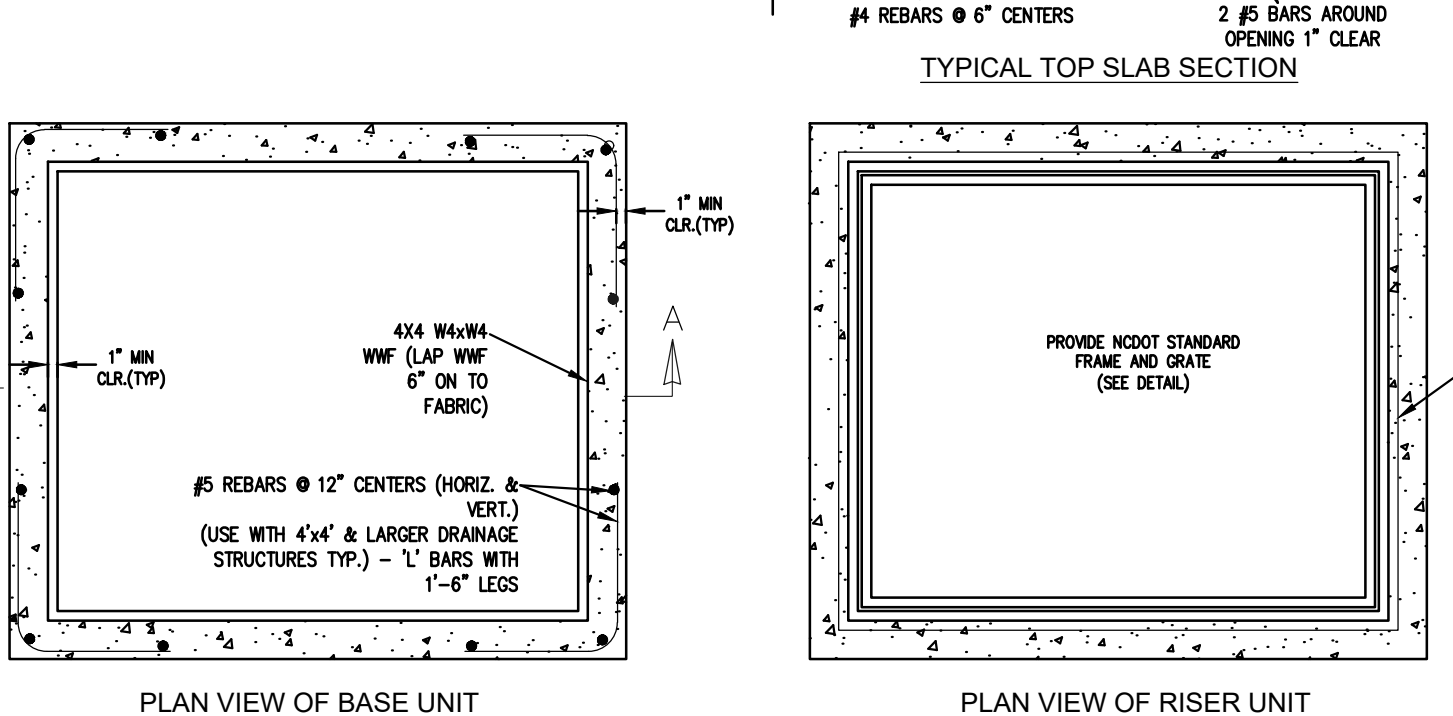
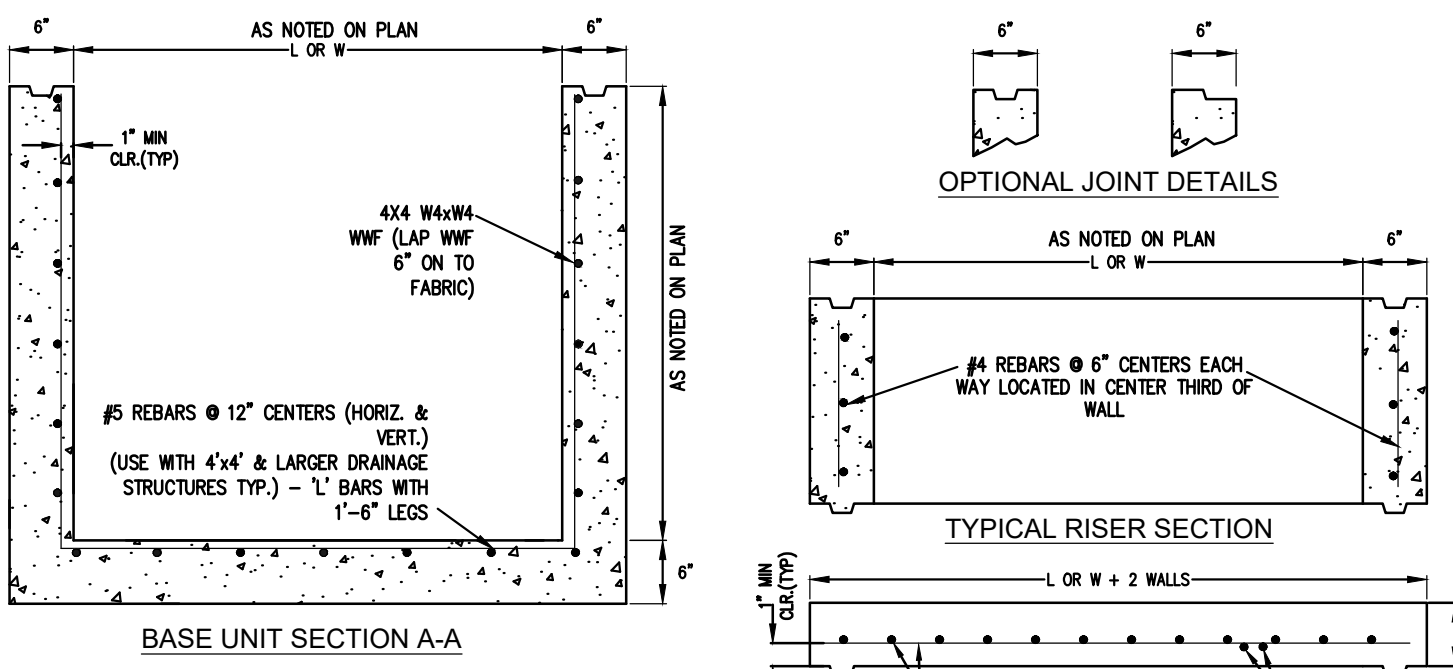
STRUCTURE	TOP SLAB RM ELEV. (FMSL)	BASE SLAB RM ELEV. (FMSL)	PVC ORIFICE ASSEMBLY PIPE DIA. (INCHES)	PVC ORIFICE ASSEMBLY PIPE INV. ELEV. (FMSL)	ORIFICE DIA. (INCHES)	ORIFICE INV. ELEV. (FMSL)	WEIR LENGTH (FT)	WEIR CREST ELEV. (FMSL)	DIAMETER (INCHES)	INVERT ELEV. (FMSL)
MP1	7.17	2.00	6.0" x 6.0"	2.50'	6.0" x 6.0"	1.50	6'	4.50'	24" RCP	2.50
MP2	8.30	2.00	6.0" x 6.0"	2.50'	6.0" x 6.0"	1.50	4'	4.50'	24" RCP	2.50



STANDARD RIGID PIPE INSTALLATION DETAIL
NOT TO SCALE NCDOT STD 3000D1

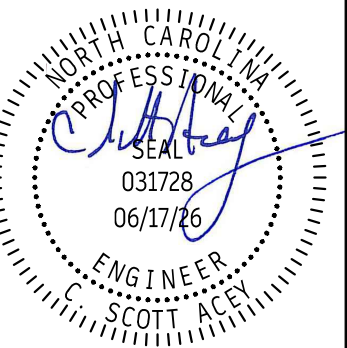


STANDARD FLEXIBLE PIPE INSTALLATION DETAIL
NOT TO SCALE NCDOT STD 3000D1



STANDARD TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
NOT TO SCALE NCDOT STD 840.46

GENERAL PIPE INSTALLATION NOTES:
1. ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS" FOR CONSTRUCTION, CHAPTER XVIII 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 TREATMENT MATTERS OF THE WORK.
2. MATERIAL.
3. THE PIPE CULVERT INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH NCDOT TYPICAL STANDARD DETAIL 3000D1.
4. I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
5. O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
6. H = THE FULL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT OR THE BOTTOM OF THE PAVEMENT STRUCTURE AT THAT POINT.



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DRAWN					06/17/26
CHECKED					
APPROVED					

REVISION	NO.	DESCRIPTION

FINAL DESIGN
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CONSTRUCTION

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GENERAL PROJECT NOTES:

- 1. PROJECT NAME: THE FOST TRACT PDR - PHASE 7
2. DEVELOPER: MOYOCK DEVELOPMENT, LLC
3. PROJECT DESCRIPTION: PLANNED DEVELOPMENT RESIDENTIAL SUBDIVISION
4. NEAREST RECEIVING STREAM: ROWLAND CREEK CANAL - INDEX NUMBER: 30-1-2-2-5-1-2-1
5. STREAM CLASSIFICATION: C. Sw: RIVER BASIN: PASQUOTANK
6. PROJECT AREA TABULATION:

Table with 2 columns: Description, Value. Rows include TOTAL PROPERTY AREA (13.28 AC) and PROPOSED PHASE 7 DISTURBED AREA (13.28 AC).

AREA CALCULATION NOTE: All areas have been calculated utilizing properties within the Autocad software.

MATERIAL BALANCE NOTE: All excavated material occurring during the course of construction shall remain on-site for roadway construction and land grading. See SCHEDULE OF LAND DISTURBING ACTIVITIES provided on Sheet 5 of this set for an estimated cut fill material balance for the project.

WETLAND NOTE: The property contains 404 jurisdictional wetlands as noted on the cover sheet.

STABILIZATION NOTE: The angle of graded slopes and fills shall be no greater than the angle that can be retained by vegetative cover or other adequate erosion control devices or structures. In any event, all disturbed areas left exposed will be within 14 CALENDAR DAYS OF COMPLETION of any phase of grading, be planted or otherwise stabilized with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion.

SEDIMENTATION AND EROSION CONTROL NOTES:

A. NARRATIVE AND SITE DATA: THE FOST TRACT IS A PLANNED DEVELOPMENT RESIDENTIAL (PDR) SUBDIVISION BEING CONSTRUCTED ON A 225 ACRE TRACT OF LAND LOCATED ALONG THE SOUTH SIDE OF NC HWY 168 JUST WEST OF GUINEA RD. (SR 1214), IN THE MOYOCK TOWNSHIP OF CURRITUCK COUNTY.

THE SITE'S EXISTING TOPOGRAPHY IS FLAT, WITH SLOPES RANGING BETWEEN 0-1% ELEVATIONS ACROSS THE SITE RANGE BETWEEN 6 AND 8 FEET. THE TRACT IS DIVIDED NORTH AND SOUTH BY THE ROWLAND CREEK CANAL. AREAS SOUTH OF THE CANAL ARE PRIMARILY WOODLANDS. THE WOODED AREA SOUTH OF THE CANAL IS NOT WELL DRAINED AND INCLUDES THE JURISDICTIONAL WETLAND AREAS ILLUSTRATED IN THE PLANS.

PURSUANT TO THE USDA SOIL SURVEY MANUAL OF CURRITUCK COUNTY, SITE SOILS ARE COMPOSED OF A MIXTURE OF ROANOKE FINE SANDY LOAM, CAPE FEAR LOAM AND WASDA MUCH. ROANOKE SERIES SOILS ARE DESCRIBED AS BEING NEARLY LEVEL AND POORLY DRAINED WITH PERMEABILITY RATES RANGING FROM 0.06 IN/HR NEAR THE SURFACE, UP TO 20 IN/HR AT DEPTHS BELOW 45".

CONSTRUCTION SEQUENCE SCHEDULE

CONSTRUCTION ACTIVITY

Construction Access- Construction entrance, construction routes, equipment parking areas. Sediment Traps & Barriers: Basin traps, sediment fences, & outlet protection. Runoff Control- Diversions, perimeter dikes, water bars, and outlet protection.

Runoff Conveyance System- Stabilizes stream banks, storm drains, channels, inlet & outlet protection, slope drains.

Land Clearing & Grading- Site preparation- cutting, filling & grading, sediment traps, barriers, diversions, drains, surface roughening.

Surface Stabilization- Temporary & permanent seeding, mulching, sodding, rip rap.

Building Construction- Buildings, utilities, paving. Landscaping & Final Stabilization- Topsoiling, trees & shrubs, permanent seeding, mulching, sodding, rip rap.

SCHEDULE CONSIDERATION

Final land-disturbing activity- Stabilize bare areas immediately with gravel & temporary vegetation as construction takes place. Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.

Install key practices after principal sediments traps and before land grading. Install additional runoff-control conveyance measures during grading. Where necessary, stabilize stream banks as they are exposed. Install principal runoff conveyance system with runoff-control measures. Install remainder of system after grading.

Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.

Install necessary erosion & sedimentation control practices as work takes place. Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all temporary control measures.

LAND GRADING CONSTRUCTION SPECIFICATIONS

- 1. Construct & maintain all erosion & sedimentation control practices & measures in accordance with the approved sedimentation control plan and construction schedule.
2. Remove good topsoil from areas to be graded and filed, and preserve it for use in finishing the grading of all critical areas.
3. Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.
4. Clear & grub areas to be filled to remove trees, vegetation, roots, or other objectionable material that would affect the planned stability of fill.
5. Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.
6. 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.
7. Do not incorporate frozen material or soft, mucky, or highly compressible materials into fill slopes.
8. Do not place fill on a frozen foundation, due to possible subsidence and slippage.
9. Keep diversions and other water conveyance measures free of sediment during all phases of development.
10. Handle steep or springs encountered during construction in accordance with approved methods.

Maintenance: Periodically check all graded areas & the supporting erosion & sedimentation control practices, especially after heavy rainfalls. 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.

PERMANENT SEEDING

The purpose of permanent seeding is to reduce erosion and decrease sediment yield from disturbed areas, and to permanently stabilize such areas in a manner that is economical, adaptable 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.

Seeding Recommendations for Summer Seeding: Species: Common bermudagrass, Rate: 10/1,000 sf (sprigs) 1-2 lb/1,000 sf (seed) 500 (See Seeding Notes).

Seeding Recommendations for Early Fall Seeding: Species: Kentucky 31 Tall Fescue, Rate: 6 lb/1,000 sf (broadcast seed).

Soil Amendments- It is highly recommended that soils be tested and amended as found necessary. If a soil is not tested, but can be planted earlier or later than sprigs.

Soil Amendments- It is highly recommended that soils be tested and amended as found necessary. If a soil is not tested, but can be planted earlier or later than sprigs.

Sprigging- Plant sprigs in furrows with a tractor-drawn transplanter, or broadcast by hand. (Not recommended for Tall Fescue).

Furrows should be 4-6 inches deep and 2 feet apart. Place sprigs about 2 ft. apart in a row with one end or above ground level.

Mulch- Do not mulch Bermuda Grass. For Tall Fescue seed, apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance- Water or needed. Mow bermuda to 3/4 to 1-inch height and tall fescue to 2.5 - 3.5 inch height. Topdress bermuda with 40 lb/acre nitrogen in April, 50 lb in May, 50 lb in June, 50 lb in July, and 25 lb in August. Top dress tall fescue in mid September, again in November and February with turf-grade 3-1-2 or 4-1-1-2 ratio turf-grade fertilizer. Fertilize with 1 lb of actual nitrogen per 1,000 sf. Do not fertilize tall fescue between Mid March and Early September.

TEMPORARY SEEDING

The purpose of temporary seeding is to temporarily stabilize denuded areas that will not be brought to final grade or permanently seeded for a period of more than 14 calendar days, or 7 days in critical areas identified on the plan.

Seeding Recommendations for Late Winter & Early Spring Seeding: Species: Winter Rye (grain), Annual Lespedeza (Kobe), Rate: 120 (Annual Ryegrass shall not be used) 50.

Mulch- Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance- Referitize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Summer Seeding: Species: Winter Rye (grain), Annual Lespedeza (Kobe), German Millet, Rate: 120 (lb/acre) 40.

Mulch- Apply 4,000-lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch-anchoring tool. A disk with blades set nearly straight can be used as a mulch-anchoring tool.

Maintenance- Referitize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Fall Seeding: Species: Winter Rye (grain), Rate: 120.

Mulch- Apply 4,000-lb/acre straw. Anchor straw by tacking 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 referitize 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 Kobe Lespedeza in late February or Early March.

SOODING

The purpose of permanent seeding is to prevent erosion and damage from sediment and runoff by stabilizing the soil surface with permanent vegetation for the purpose of: -the provision of immediate vegetative cover in critical areas. -to stabilize disturbed areas with a suitable plant material that cannot be established by seed. -to stabilize drainage ways & channels and other areas of concentrated flow where flow velocities will not exceed that specified grass lining.

Soil Amendments- Apply lime and fertilizer according to soil tests or apply 2 tons/acre of pulverized agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer in the fall, or 5-10-10 in spring.

Prior to laying sod, clear the soil surface of trash, debris, rocks, branches, stones, and clods larger than 2 inches in diameter. Fill or level low spots in order to avoid standing water. Rake or harrow the site to achieve a smooth and level final grade. Complete soil preparation by rolling or cultipacking to firm soil.

Sod Installation- 1. Maintaining the sod after it is unrolled helps maintain viability. Store in shade during installation. 2. Rake the soil surface to break the crust just before laying sod. During the summer, lightly irrigate the soil, immediately before laying sod to cool the soil and reduce root burning & dieback.

3. Do not sod on ground, frozen soils, or soils that have been treated recently with sterilants or herbicides. 4. Lay the first row of sod in a straight line with subsequent rows placed parallel to and butting tightly against each other. Stagger joints in a brick-like pattern. Be sure that the sod is not stretched or overlapped and that all joints are butted tightly to prevent voids. Use a knife or sharp spade to trim and fit irregular shaped areas.

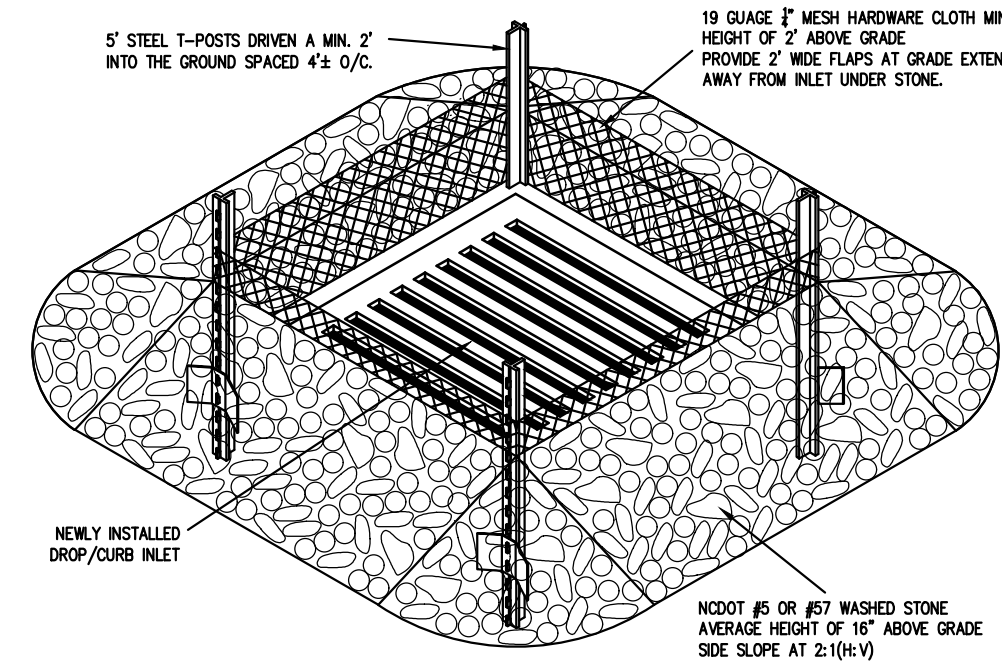
5. Install strips of soil with their longest dimension perpendicular to the slope. On slopes of 3:1 or greater, or wherever erosion may be a problem, secure sod with pegs or staples. 6. As sodding of clearly defined areas is completed, roll the sod to provide good contact between roots and soil.

7. After rolling, irrigate until the soil is wet 4 inches below the sod. 8. Keep sodded areas moist to a depth of 4 inches until the grass takes root. This can be determined by tugging on the sod. 9. Mowing should not be attempted until the soil is firmly rooted, usually 2-3 weeks.

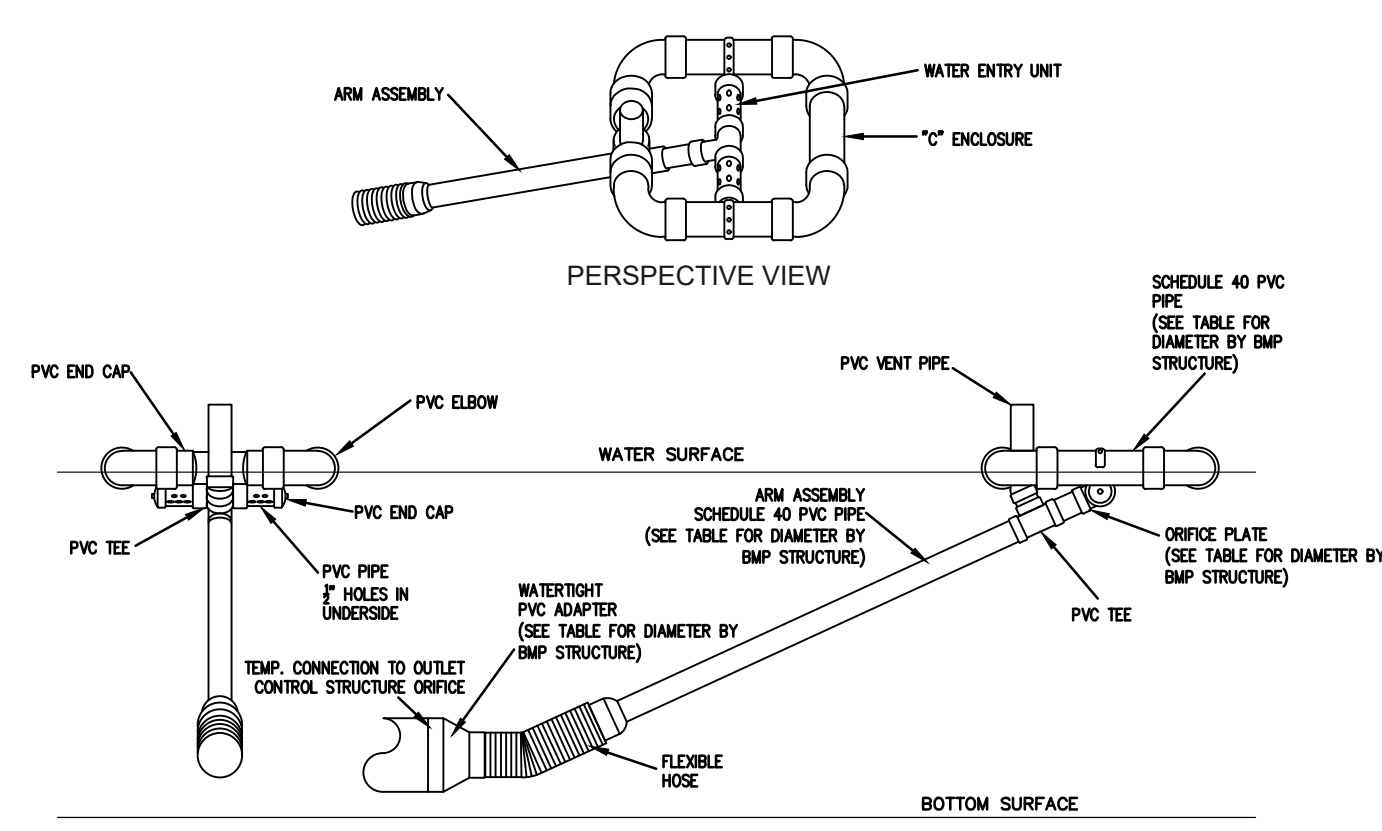
Sodded Waterways 1. Prepare soil as described above. 2. Lay sod strips perpendicular to the direction of flow, with the lateral joints staggered in a brick-like pattern. Butt edges tightly together.

Maintenance- After the first week, water as necessary to maintain adequate moisture in the root zone & prevent dormancy of the sod. Do not remove more than one-third of the shoot in any one mowing. Grass height should be maintained between 2-3 inches unless otherwise specified.

After first growing season, established sod requires fertilization, and may also require lime. Follow soil test recommendations.



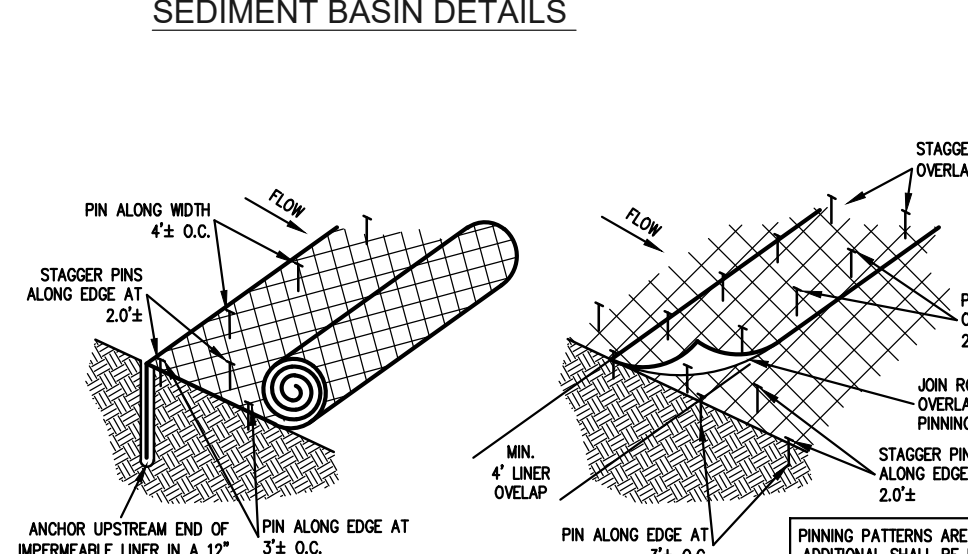
DROP/CURB INLET PROTECTION NOT TO SCALE. INLET PROTECTION SPECIFICATIONS: HEIGHT AT LEAST 18" AND AFTER SHORING UP OF EXISTING INFILTRATION DRAIN AND REPAIR IMMEDIATELY REMOVE SEDIMENT FROM MESH AND REPLACE STONES AS NEEDED. REMOVE EXISTING CONTRIBUTE DRAINAGE AREA HAS BEEN STABILIZED.



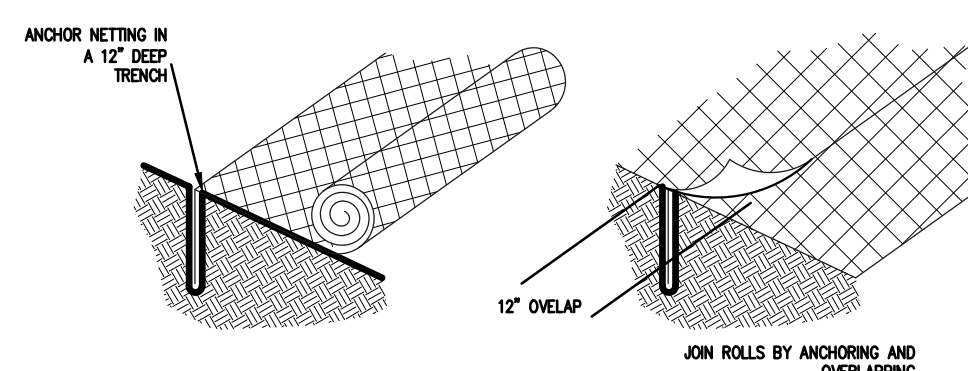
TYPICAL SKIMMER DETAIL NOT TO SCALE. LOCATION AS NOTED ON PLAN. DETAIL MODIFIED FROM NCEM EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

SKIMMER TABLE with columns: Sediment Basin, PVC Arm and Enclosure Dia., Orifice Plate Dia., PVC Adapter. Rows #1 and #2.

SEDIMENT BASIN DETAILS table with columns: Sediment Basin, Cleanout Storage Elev & Volume, Total Dry Storage Elev & Volume. Rows #1 and #2.

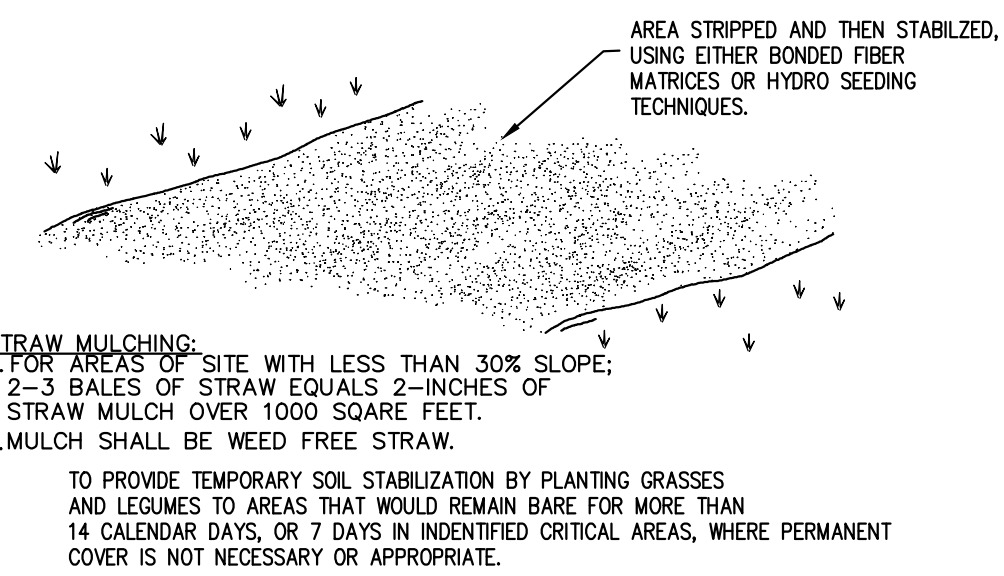


ROLLED LINER CONNECTION DETAIL NOT TO SCALE. SECTION VIEW.

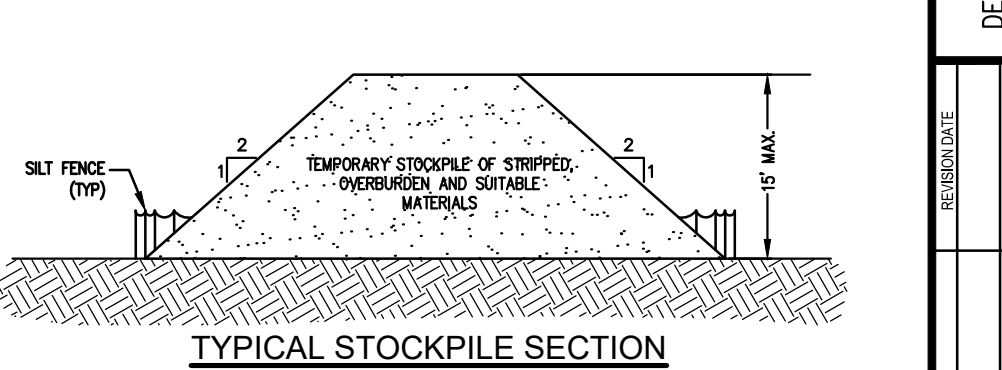


ROLLED EROSION CONTROL MATTING DETAIL NOT TO SCALE. LOCATION AS NOTED ON PLAN.

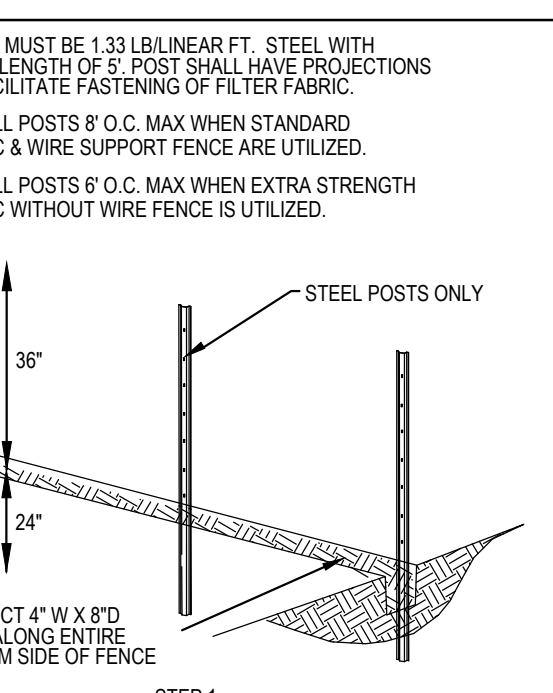
- 1. All areas identified on these plans as requiring an erosion control matting shall be lined with a protective covering to minimize erosion and protect seed until permanent vegetation is established.
2. Covering shall be composed of a bio or photo degradable material to permit long term environmental impacts.
3. Mulching with straw or other organic materials can be utilized only when it will not impede the establishment of permanent vegetation. Mulches must be properly anchored which may be difficult in some environments. An example is straw mulch with jute netting stapled or pinned in place.
4. Pre-manufactured rolled erosion control products (RECP) are highly recommended for this application. RECP's shall be installed according to manufacturer specifications for channel linings. An example is a woven straw or wooden fiber Excelsior matting.



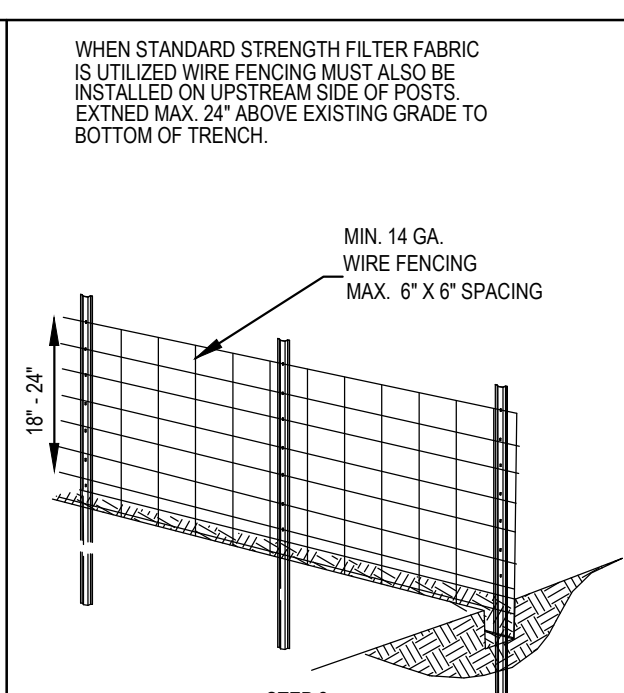
LAND DISTURBANCE & STABILIZATION DETAIL NOT TO SCALE.



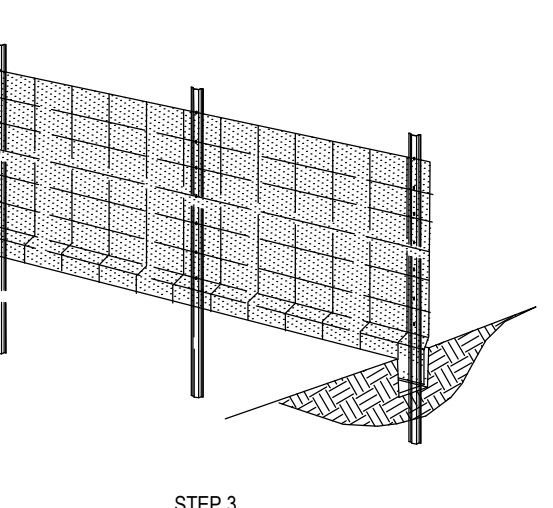
TYPICAL STOCKPILE SECTION NOT TO SCALE. SECTION VIEW. STOCKPILES HAVING 2:1 SIDE SLOPES ARE CONSIDERED CRITICAL AREAS. SEE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS. LEVEL GRADE AREA AND STABILIZE AT COMPLETION OF THE NEXT POST.



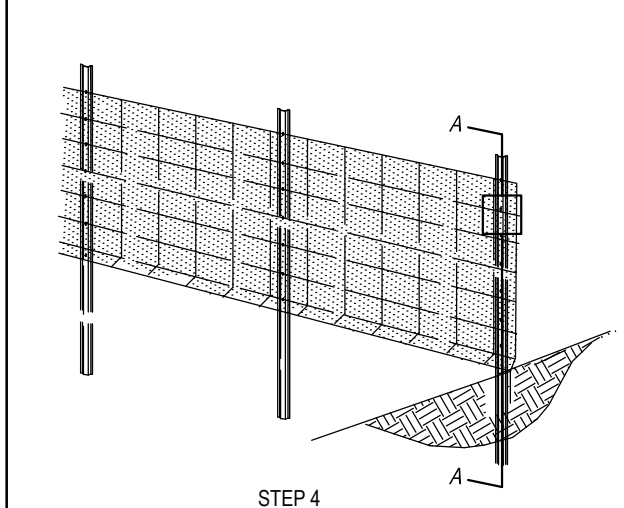
STEP 1



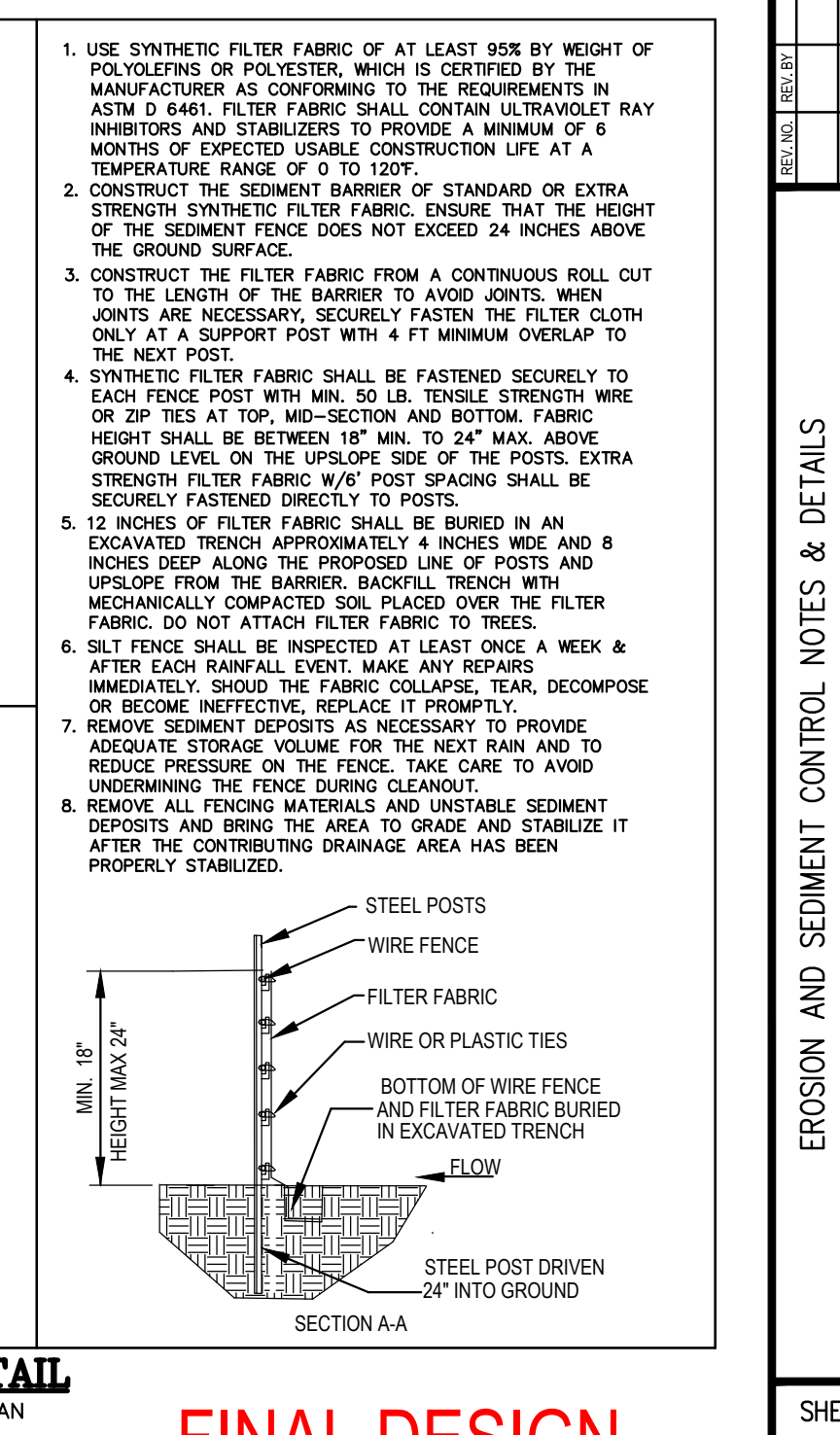
STEP 2



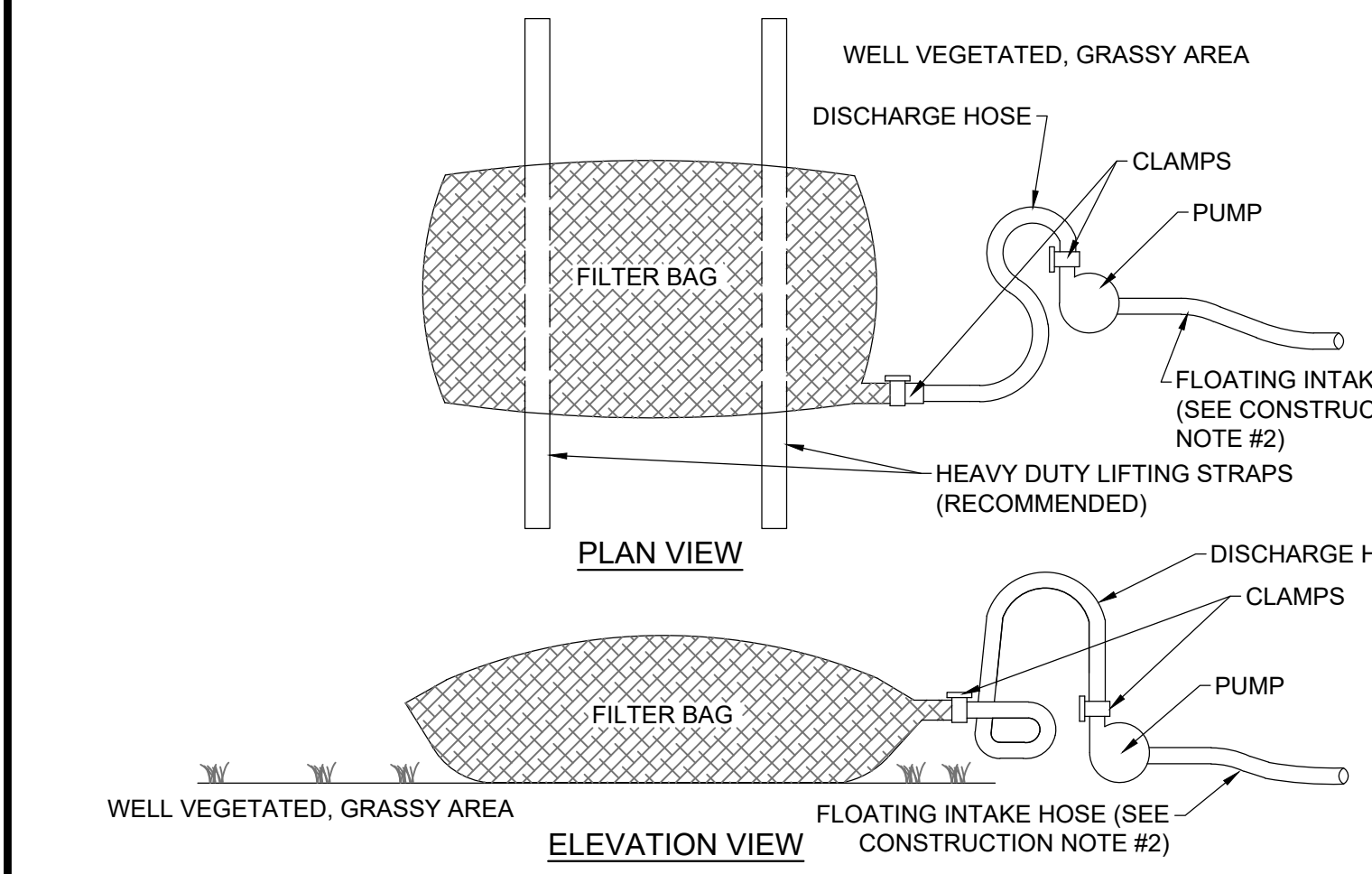
STEP 3



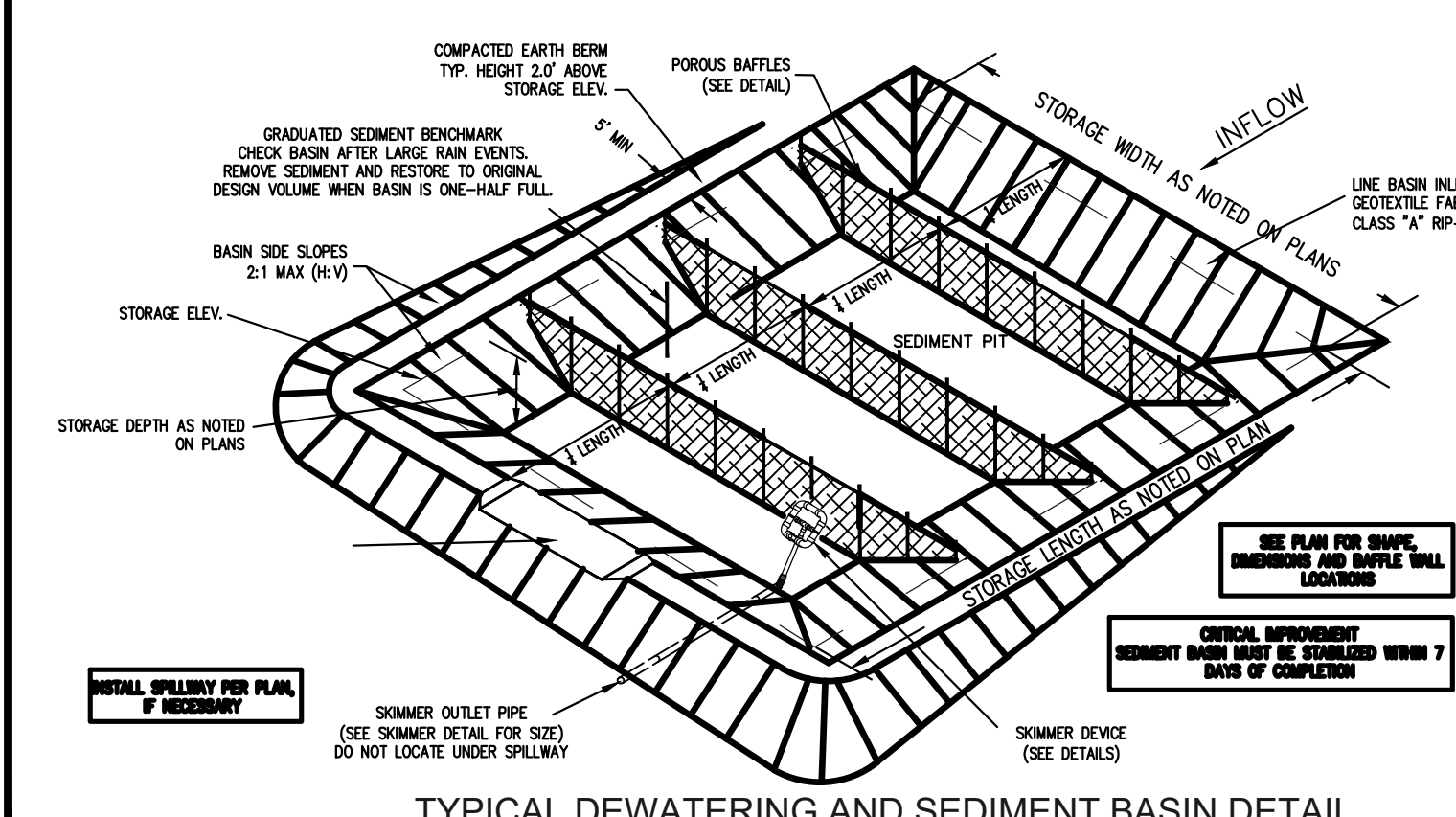
STEP 4



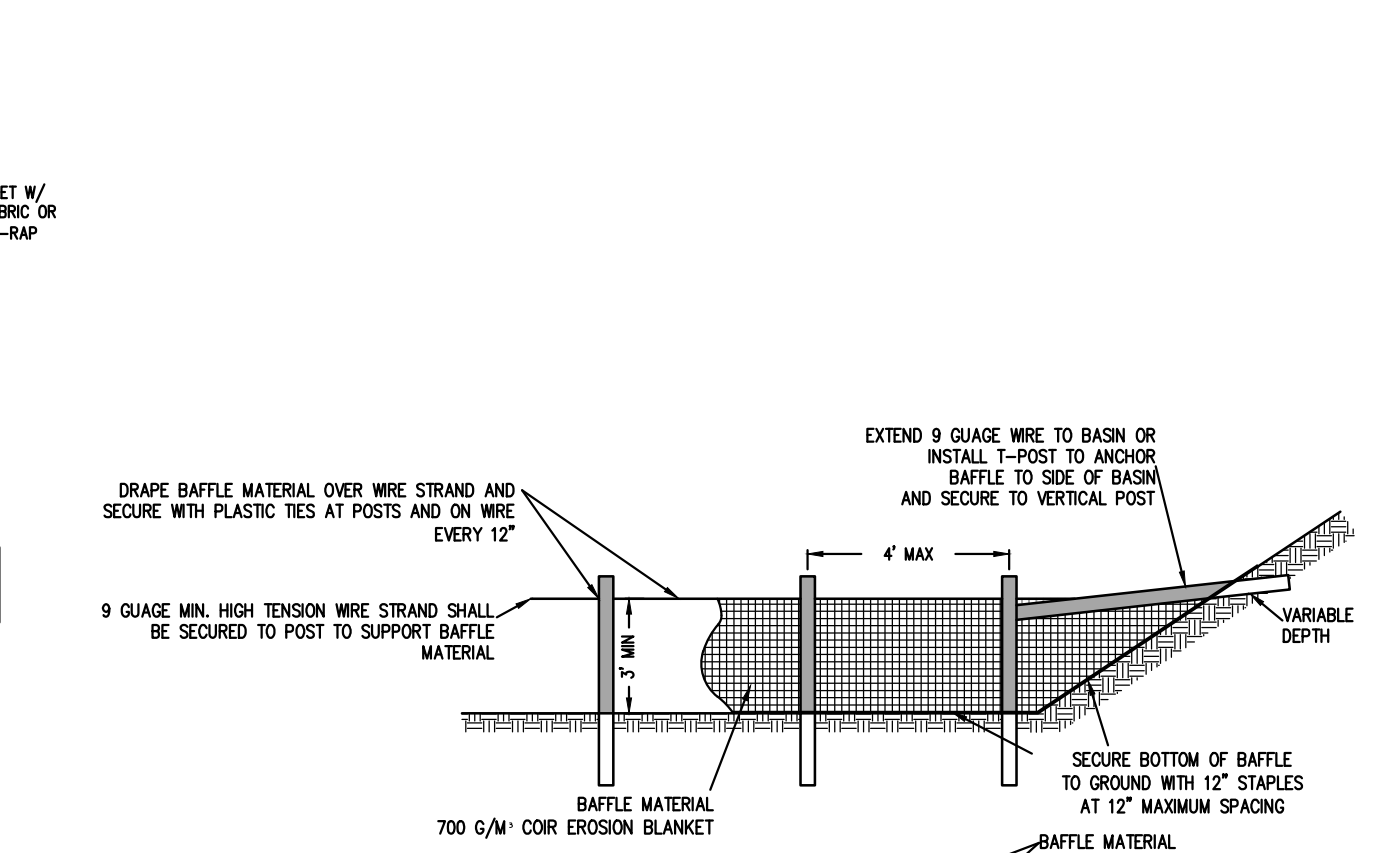
TYPICAL SILT FENCING DETAIL NOT TO SCALE. LOCATION AS NOTED ON PLAN.



SEDIMENT FILTER BAG DETAIL NOT TO SCALE.



TYPICAL DEWATERING AND SEDIMENT BASIN DETAIL NOT TO SCALE.



POROUS COIR FIBER BAFFLE DETAIL NOT TO SCALE.

- 1. INSTALL THREE (3) COR FIBER BAFFLES IN SEDIMENT BASINS AT DRAINAGE OUTLETS WITH A SPACING OF 1/4 THE BASIN LENGTH.
2. TWO (2) COR FIBER BAFFLES SHALL BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 OF THE BASIN LENGTH.
3. TOP HEIGHT OF THE COR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

MSA ENGINEERS | SCIENTISTS | SURVEYORS. CURRITUCK COUNTY, NORTH CAROLINA. FOST PHASE 7 SUBDIVISION. SHEET C-503. 16 of 20 Sheets. SCALE: AS SHOWN. PROJ. NO.: 25043. DATE: 06/17/26.

FINAL DESIGN NOT RELEASED FOR CONSTRUCTION

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 feet 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
(e) Areas with slopes flatter than 4:1	14	-10 days for Falls Lake Watershed
		-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 (PRSM) 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

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not constitute permanent stabilization prior to the establishment of permanent vegetation.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWL 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 DWL 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.

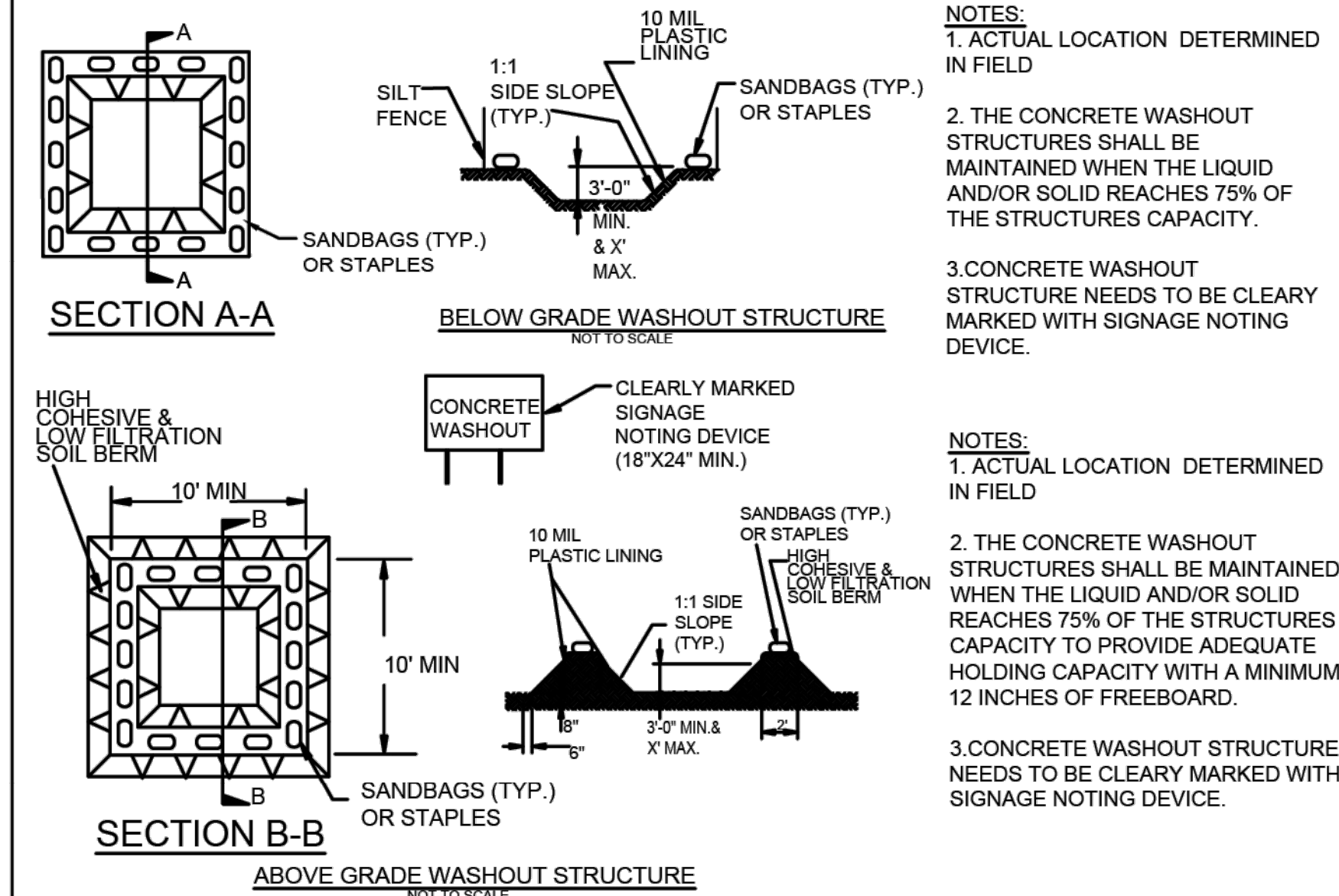
EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. It is recommended to locate stockpile areas at least 50 feet away from skimmer basins and anywhere stormwater flow is concentrated.
- 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.

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.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
 1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
 1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

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.

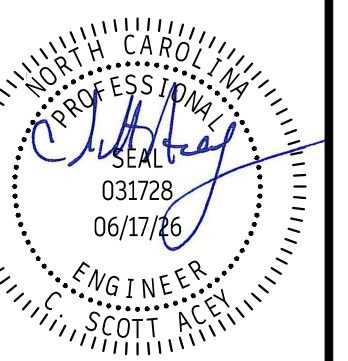
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GROUND COVER & MATERIALS HANDLING

Effective:
April 1, 2024

**FINAL DESIGN
NOT RELEASED FOR
CONSTRUCTION**



DESIGNED	JTP	DATE	06/17/26
DRAWN	JTP		
CHECKED	CSA		
APPROVED	CSA		

REVISION	DATE	DESCRIPTION

NGG01-GROUND COVER & MATERIALS HANDLING
OF
FOST PHASE 7 SUBDIVISION
CURRITUCK COUNTY, NORTH CAROLINA

MOYOCK TOWNSHIP
SHEET
C-504
17 of 20 Sheets
SCALE: AS SHOWN
PROJ. NO.: 25043

ORDER OF PRECEDENCE GENERAL NOTES/TECHNICAL SPECIFICATIONS

- THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS. IF CONFLICTS OCCUR BETWEEN THE TECHNICAL SPECIFICATIONS AND THE NOTES CONTAINED HEREIN, THE TECHNICAL SPECIFICATIONS SHALL SUPERSEDE.
- CONTRACTOR IS CHARGED WITH PERFORMING SITE INVESTIGATIONS TO ASCERTAIN EXISTING SITE CONDITIONS. PHOTOGRAPHIC DOCUMENTATION OF PRE-EXISTING CONSTRUCTION CONDITIONS WILL BE CONDUCTED BY THE ENGINEER FOR DETERMINATION OF COMPLIANCE WITH CONDITIONS NOTED HEREON.

GENERAL NOTES

- ACCESS TO SITES 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. SUPERFICIAL 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 SHALL BE REQUIRED TO PROVIDE THE CONSTRUCTION STAGING AREA AT HIS EXPENSE.
- THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK. MAIL ADJOINING PROPERTY OWNER LETTERS TO AFFECTED PROPERTY OWNERS NOTIFYING THEM THAT WORK WILL BE OCCURRING WITHIN THE AREAS ADJOINING THEIR PROPERTIES. THIS LETTER SHALL GIVE PROPERTY OWNERS A MINIMUM OF 14 DAYS WRITTEN NOTICE PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR REMOVAL OF ANY PERSONAL ITEMS FROM THE RIGHT-OF-WAY. THE LETTER OUTLINES THE EXTENT OF THE WORK TO BE PERFORMED TO INCLUDE DRIVEWAY DISRUPTIONS.
- 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 AND/OR CAMDEN COUNTY.
 - SWEEP STREETS A MINIMUM OF ONCE WEEKLY (FRIDAY) OR AS DIRECTED BY THE ENGINEER AND/OR CAMDEN COUNTY.
 - BLADE, LEVEL AND RE-COMPACT ALL EXPOSED TRENCHES WEEKLY (OR AS DIRECTED BY THE ENGINEER) TO PRODUCE A SMOOTH "RIDE".
 - PERFORM DAILY CLEANUP OF ALL DIRT, DEBRIS AND SCRAP MATERIALS.
 - REMOVE EXCESS EQUIPMENT, MATERIALS, TOOLS, ETC. NOT NEEDED.
 - ANY DRIVEWAY REMOVALS MUST HAVE A TEMPORARY SURFACE INSTALLED WITHIN THE SAME DAY AS REMOVAL. APPROVED SURFACES MUST CONSIST OF EITHER ABC OR MILLINGS.

THE WORK WITHIN RIGHT OF WAY AREAS MUST BE KEPT IN AN ORDERLY AND NEAT FASHION. NO MATERIAL (SOILS, GRAVEL OR OTHER PROJECT FILL) CAN BE PLACED DIRECTLY ON ANY STREET SURFACE WITHOUT MATTING BEING PUT DOWN FIRST. ANY DAMAGE TO ANY ROAD SURFACE FROM CONSTRUCTION ACTIVITIES MUST BE REPAIRED AT OWNERS EXPENSE.

- 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 STREETS OR DRIVEWAYS AT ANY TIME. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT AND SUITABLE STOCKPILE AREA AND LOCATION AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL PROVIDE MEASURES DURING CONSTRUCTION TO SECURE THE SITE AND EXCAVATION FROM 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 OR OVERNIGHT 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 SIGNS, FENCES, ETC. TO AS GOOD OR BETTER THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED. (NO SEPARATE PAYMENT).
- 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 A LOCATION CONSISTENT WITH THE NOKUTTO 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 PATCHES.
- 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 FOR A DISTANCE NOT GREATER THAN 1800 FEET UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- 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.

RELATION OF WATER MAINS TO SEWERS

- LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION-IN WHICH CASE:
 - THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- CROSSING A WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION-IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

CONSTRUCTION SEQUENCE NOTES

- PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES 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 CONFLICTS (NO SEPARATE PAYMENT).
- ALL SANITARY SEWER & WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE NCDCE DWT & NCDCE PWS. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE N.C.D.O.T.
- UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, GAS, CABLE, 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, IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- STORM DRAINAGE REPAIRS BY CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.
- CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIAL AND PERFORM ALL WORK REQUIRED FOR INSTALLATION OF SEWER LINES, MANHOLES AND APPURTENANCES AS OUTLINED ON DRAWINGS AND ON SPECIFICATIONS, ALL OF WHICH BECOME PART OF THE CONTRACT DOCUMENTS.
- ALL CONSTRUCTION OF SANITARY SEWER MAINS AND APPURTENANCES IN THE COLLECTION SYSTEMS SHALL BE IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS PREPARED AS PART OF THE CONTRACT DOCUMENTS AND AS APPROVED BY THE BPG, INC. ENGINEER. ALL MATERIALS SHALL BE NEW AND UNUSED. PRIOR TO CONSTRUCTION OF THE APPROVED SANITARY SEWER, CONTRACTOR SHALL PROVIDE FIELD STAKEOUT INCLUDING ADEQUATE LINE AND GRADE STAKES IN ORDER THAT SANITARY SEWER AND APPURTENANCES MAY BE CONSTRUCTED IN ACCORDANCE WITH CONTRACT DRAWINGS.
- A PRECONSTRUCTION CONFERENCE SHALL BE HELD AT THE COMPLETION OF THE FIELD STAKEOUT WITH THE ENGINEER AN HISHER REPRESENTATIVE, CAMDEN COUNTY REPRESENTATIVE, NCDCE REPRESENTATIVE, AND ANY REQUISITE UTILITY REPRESENTATIVES THAT WILL REQUIRE COORDINATION WITH DURING THE COURSE OF CONSTRUCTION. A MINIMUM OF 7 DAYS NOTICE SHALL BE GIVEN FOR MEETING REPRESENTATIVES.
- PREPARE PHOTOGRAPHIC DOCUMENTATION OF PRE-EXISTING CONDITIONS OF THE PROJECTED CONSTRUCTION ROUTE PRIOR TO COMMENCING WORK.
- IF ANY DEVIATION IS CONTEMPLATED IN LOCATION OR LINE GRADE OF ANY SEWER, STRUCTURE OR APPURTENANCE AS SHOWN ON THE CONTRACT DRAWINGS, A REVISION OF THE DRAWINGS SHOWING THE PROPOSED DEVIATION SHALL BE SUBMITTED TO THE BPG, INC. ENGINEER FOR REVIEW AND APPROVAL. BEFORE ANY CHANGES ARE CONSTRUCTED, MINOR FIELD CHANGES MAY BE MADE WITH APPROVAL OF BPG, INC. APPOINTED FIELD INSPECTOR. SHOULD CONTRACTOR DISCOVER AND/OR DAMAGE ANY UNDERGROUND UTILITY FACILITIES, WHICH ARE NOT SHOWN ON DRAWINGS AND/OR MARKED ON THE GROUND, CONTRACTOR SHALL PROMPTLY NOTIFY UTILITY OWNER AND OWNERS PROJECT REPRESENTATIVE. RELOCATION OF ANY UTILITIES SHALL BE APPROVED AND COORDINATED WITH THE APPROPRIATE UTILITY OWNER.
- EXCAVATION SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE PLANS. THE WIDTH OF EXCAVATION FOR TRENCHES SHALL BE A MINIMUM OF 24". EXCAVATION SHALL NOT BE CARRIED BELOW THE ESTABLISHED GRADES AND ANY EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH SUITABLE, THOROUGHLY COMPACTED GRANULAR BEDDING MATERIAL. CONTRACTOR SHALL INSTALL ALL SHEETING, BRACING, AND SHORINGS NECESSARY TO PERFORM THE WORK. TO PROTECT EXISTING STRUCTURES AND ALL EXCAVATIONS AS REQUIRED UNDER NORTH CAROLINA OSHA REGULATIONS. COMPLIANCE WITH PROVISIONS OF THE OVERHEAD HIGH VOLTAGE LINE SAFETY ACT IS REQUIRED.
- DEWATERING EQUIPMENT SHALL BE SIZED TO MAINTAIN THE TRENCH IN A SATISFACTORY DEWATERED CONDITION SUITABLE FOR PIPE LAYING AND BACKFILLING. PIPE LAYING WILL BE PERMITTED ONLY WHERE THE DEPTH OF WATER IS MAINTAINED BELOW THE BEDDING MATERIAL. BEDDING MATERIAL SHALL NOT BE PLACED ON UNSTABLE TRENCH MATERIAL.
- NOT MORE THAN ONE HUNDRED FIFTY FEET (150') OF TRENCH SHALL BE OPENED IN ADVANCE OF THE COMPLETED PIPE LAYING. TRENCH WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. EXCAVATION AT MANHOLES AND SIMILAR STRUCTURES SHALL PROVIDE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") BETWEEN THE OUTER SURFACE OF THE STRUCTURE AND THE EMBANKMENT OR SHEETING.
- WHEREVER FOUNDATION MATERIAL IS UNSUITABLE, IT SHALL BE EXCAVATED UNTIL A STABLE FOUNDATION IS ACHIEVED. GRANULAR MATERIAL #67 STONE PER ASTM C 12, SHALL THEN BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED UNTIL THE TRENCH BOTTOM HAS BEEN STABILIZED. STANDARD GRANULAR PIPE BEDDING MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ASTM D 2321 FOR PVC PIPE AND ASTM C 12 FOR DIP.
- ALL GRAVITY SEWER MAINS, SERVICE LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM COVER OF THREE FEET (3') AS MEASURED FROM TOP OF PIPE TO FINISH GRADE. THE BPG, INC. ENGINEER MAY REQUIRE ADDITIONAL COVER AS NEEDED FOR PIPE PROTECTION. SEWERS, WHICH HAVE A DEPTH OF COVER LESS THAN THREE FEET (3'), SHALL BE APPROVED AND INSTALLED AS PER BPG, INC. ENGINEERS WRITTEN INSTRUCTIONS.
- PIPE SHALL BE LAID TRUE TO LINE AND GRADE WITH BELLS UPSTREAM AND SHALL BE JOINED TOGETHER SUCH THAT THE COMPLETED PIPE WILL HAVE A SMOOTH INVERT. PIPE SHALL BE PUSHED HOME BY HAND. THE USE OF EQUIPMENT (I.E. BACKHOE) SHALL NOT BE PERMITTED. CUTTING OF PIPE SHALL BE PERFORMED BY SAWING. STANDARD BEDDING SHALL BE SHAPED TO THE CURVATURE OF BOTH THE BELL AND BARREL OF THE PIPE. THE TRENCH SHALL BE KEPT FREE OF WATER WHILE THE WORK IS IN PROGRESS. THE ENDS OF THE PIPE SHALL BE CLEANED SO THAT PROPER JOINTS CAN BE MADE. AS THE WORK PROGRESSES, THE INTERIOR OF THE PIPE SHALL BE CLEARED OF DIRT, CEMENT, OR OTHER DELETERIOUS MATERIAL.
- EXCEPT AS REQUIRED FOR USE OF A LASER LEVEL, EXPOSED END OF ALL PIPE AND FITTINGS SHALL BE FULLY CLOSED TO PREVENT EARTH, WATER OR OTHER SUBSTANCES FROM ENTERING PIPE. TRENCH SHALL BE COMPLETELY BACKFILLED AT END OF EACH WORKDAY. WHEN NEW PIPE IS TIED INTO AN EXISTING MANHOLE, NEW PIPE SHALL BE PLUGGED WITH A STANDARD SERVICE PLUG AND SHALL REMAIN PLUGGED UNTIL ALL NEW LINES HAVE BEEN LAID THAT WILL FLOW TO EXISTING MANHOLE HAVE BEEN COMPLETED, TESTED, AND ACCEPTED.

- BACKFILL SHALL BEGIN AT THE TOP OF THE STANDARD GRANULAR BEDDING AND SHALL BE PLACED IN SIX INCH (6") LAYERS FOR THE INITIAL ONE FOOT OVER THE PIPE AND SHALL BE THOROUGHLY TAMPED TO NINETY PERCENT (95%) OF THE MAXIMUM THEORETICAL COMPACTION DENSITIES AS DETERMINED BY A STANDARD PROCTOR ON THE MATERIAL. REMAINDER OF THE BACKFILL SHALL BE IN TWO FOOT (2') LAYERS PROPERLY TAMPED.
- COMPLETION: BEFORE CONNECTING TO AN ACTIVE SYSTEM, THE LEAKAGE TESTS SHALL PROMPTLY FOLLOW INSTALLATION OF WASTEWATER PIPE INCLUDING SERVICES AND KEPT WITHIN A MAXIMUM OF 1000 FEET BETWEEN THE WASTEWATER PIPE LAYING OPERATION.
- CONTRACTOR SHALL FURNISH WEIRS, STAND PIPES, PIPE PLUGS, WATER, PRESSURE GAUGES, STOP WATCHES, AIR COMPRESSOR, VACUUM PUMP, HOSE AND SUCH MATERIALS AND ASSISTANCE AS REQUIRED TO PERFORM THESE TESTS. ALL ACCEPTANCE TESTS SHALL BE CONDUCTED BY CONTRACTOR IN THE PRESENCE OF A BPG, INC. APPOINTED INSPECTOR.
- ACCEPTANCE TESTS SHALL NOT BE MADE UNTIL SANITARY SEWER, MANHOLES AND PROPOSED SERVICE CONNECTIONS AS SHOWN ON THE APPROVED SEWER PLANS HAVE BEEN INSTALLED. THE SEWER TRENCHES (INCLUDING MANHOLES AND CLEANOUT STACKS) BACKFILLED AND COMPACTED TO FINISHED SUB-GRADE.
- CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR MAINTAINING SEWER FLOWS DURING PROJECT TO INCLUDE ANY REQUIRED BY-PASS PUMPING OF WASTEWATER BETWEEN MANHOLES DURING INSTALLATION OF SEWER LINES AND/OR MANHOLES. BY-PASS PUMPING SYSTEM SHALL PROVIDE CONTINUOUS FULL CONVEYANCE AND CONTAINMENT OF WASTEWATER PRESENT DURING THE WORK AND SHALL NOT SURCHARGE THE UPSTREAM PUMP STATION BY MORE THAN TWO (2) FEET ABOVE THE NORMAL EFFLUENT LEVEL.
- ONCE ACCEPTANCE AND START OF THE COLLECTION SYSTEM HAS BEEN RECEIVED, THE CONTRACTOR SHALL PROCEED WITH THE ABANDONMENT PROCEDURES OF THE EXISTING WASTEWATER COLLECTION SYSTEM AS DESCRIBED HEREON.
- ANY DRIVEWAY CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE EITHER REPAIRED OR REPLACED AT CONTRACTORS EXPENSE. FILTER FABRIC CLOTH SHALL BE PLACED OVER EITHER CULVERT ENDS DURING THE COURSE OF CONSTRUCTION. ALL EX. DRAINAGE INFRASTRUCTURE WILL BE RETURNED TO PRE-EXISTING CONDITIONS PRIOR TO FINAL PROJECT APPROVALS.
- THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS.

GENERAL NOTES SANITARY SEWER UTILITY

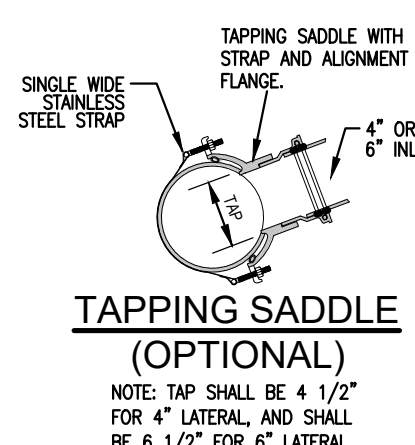
- CLEANOUT ELEVATIONS AND/OR LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER WHEN NECESSARY. CLEANOUT STACK TOP ELEVATION IS DETERMINED BY INTERPOLATING FIELD DATA AND MAY NOT BE EXACT. CLEANOUT ELEVATION TOP SHALL BE SET IN ACCORDANCE WITH THE TYPICAL DETAIL DESCRIBED HEREON. (NO SEPARATE PAYMENT).
- WHERE SANITARY SEWER MAINS ARE TO BE CONSTRUCTED WITHIN 20' OF EXISTING RESIDENCES SPECIAL CONSIDERATION SHALL BE GIVEN TO MINIMIZE UNDERMINING OR OTHERWISE DISTURBING EXISTING RESIDENCES ADJACENT TO THE SEWER MAIN. THE CONTRACTOR SHALL USE A RUBBER TIED BACK HOE AND NO MECHANICAL COMPACTION EQUIPMENT IN THESE AREAS. THE TRENCH SHALL BE SHORED ADEQUATELY TO PREVENT ANY SLOTTING OF THE SIDE SLOPES. SUITABLE BACK FILL SHALL BE PLACED IN THE TRENCH. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR REPAIR OF STRUCTURES, FOUNDATIONS, FOOTINGS, ETC. DAMAGED DUE TO CONSTRUCTION.
- SANITARY SEWER MANHOLE DEFLECTION ANGLE'S ARE 180 DEGREES UNLESS NOTED OTHERWISE. ALL INVERT ELEVATIONS ARE SHOWN TO THE MANHOLE CENTERLINE.

SEWER SERVICE LATERAL NOTES

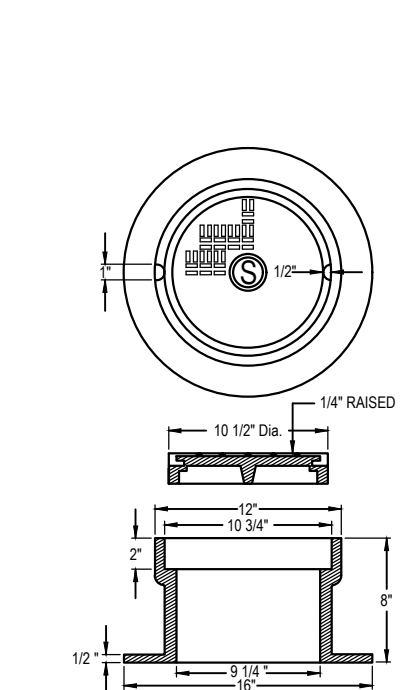
- CONTRACTOR SHALL MAKE UP STACK AND SUBMIT TO ENGINEER FOR APPROVAL AND SHALL SUBMIT TAPPING SADDLE IF USED TO ENGINEER FOR APPROVAL.
- HOLE IN SANITARY SEWER MAIN MUST BE CUT WITH SHELL CUTTER. NO HAMMER TAPS ALLOWED.
- LATERAL SHALL CONFORM TO ASTM SPECS. D-3034 SDR-35 UNLESS OTHERWISE INDICATED AS DUCTILE IRON.
- ALL PIPE AND FITTINGS SHALL BE 4" OR 6" UNLESS OTHERWISE SPECIFIED.
- ALL D.I. PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY OR FUSED CALCIUM ALUMINATE CEMENT WITH FUSED CALCIUM ALUMINATE AGGREGATES. THE ENTIRE D.I. LATERAL SHALL BE COMPRISED OF D.I. PIPE AND MECHANICAL JOINT FITTINGS.
- ALL CONNECTIONS SHALL HAVE RUBBER GASKET SEALS INSTALLED.
- THE CONTRACTOR SHALL USE SDR 35 P.V.C. WYE FOR CONNECTION TO SDR 35 P.V.C. PIPE OR TEE FOR CONNECTION TO DUCTILE IRON PIPE. PVC WYE SHALL BE ONE PIECE MOLDED OR FABRICATED.
- INSTALLATION OTHER THAN AS SHOWN MUST BE ENGINEER APPROVED.
- TAPPING PROCESS SHOWN SHALL BE USED FOR ALL SANITARY SEWER MAINS.
- SLOPE AND DEPTH OF THE SERVICE LATERAL SHALL BE DETERMINED BY THE TOPOGRAPHY OF THE LOT AS APPROVED BY THE ENGINEER OR AS INDICATED ON THE DRAWINGS.
- SLOPE OF LATERALS SHALL CONFORM TO 1/4" PER FOOT MIN. FOR 4" PIPE AND 1/8" PER FOOT MIN. FOR 6" PIPE. MAXIMUM CLEAN OUT SPACING FOR 4" PIPE IS 75'. 100' FOR 6" PIPE.
- ENTIRE SEWER LATERAL ASSEMBLY SHALL BE AIR TESTED CONCURRENTLY WITH SEWER MAIN.
- INDIVIDUAL LATERALS SHALL BE CLEANED AND FLUSHED PRIOR TO FLUSHING SANITARY SEWER MAINS.
- LATERAL SHALL NOT BE BACK-FILLED UNTIL INSPECTED BY THE PROJECT ENGINEER OR HIS REPRESENTATIVE.
- WYE CONNECTIONS SHALL NOT BE USED TO THE LATERALS INTO A MANHOLE UNLESS OTHERWISE APPROVED BY ENGINEER.
- IF BENSIS ARE APPROVED BY THE PROJECT ENGINEER, STONE BEDDING IS REQUIRED TO BE INSTALLED FROM UNDISTURBED SOIL TO BOTTOM OF BEND.
- PVC COMBINATION SHALL BE 2 PIECE TEE-WYE, GASKETED, SDR35, AS MANUFACTURED BY HARCO, GPK OR APPROVED EQUIAL.

TRENCH DEWATERING DURING SEWER LINE INSTALLATION

- ALL GROUND WATER WHICH MAY BE FOUND IN THE TRENCHES AND ANY WATER WHICH MAY GET INTO THEM FROM ANY CAUSE WHATSOEVER SHALL BE PUMPED OR BAILED OUT SO THAT THE TRENCH SHALL BE DRY DURING THE PIPE LAYING PERIOD. NO WATER SHALL BE PERMITTED TO REACH CONCRETE UNTIL IT HAS SET SUFFICIENTLY. ALL WATER PUMPED FROM THE TRENCHES SHALL BE DISPOSED OF IN A MANNER SATISFACTORY TO THE OWNER. CONTRACTOR SHALL PROVIDE AT LEAST TWO (2) PUMPS FOR EACH TRENCH OPENED IN WET GROUND AND AT THE SAME TIME, HE SHALL HAVE ONE (1) PUMP IN RESERVE.
- IF DURING ANY TIME THAT CONTRACTOR IS PERMITTED TO LAY PIPE IN A TRENCH CONTAINING UNAVOIDABLE TRENCH WATER AND CONSTRUCTION IS INTERRUPTED FOR ANY REASON, THE OPEN ENDS OF PIPE SHALL BE CLOSED BY WATERTIGHT PLUGS OR CAPS, OR OTHER MEANS APPROVED BY THE OWNER. IN ANY CASE, SUCH PROTECTION SHALL BE PROVIDED WHEN WORK IS SUSPENDED OVERNIGHT OR ON WEEKENDS AND HOLIDAYS, REGARDLESS OF THE CONDITION OF THE TRENCH WITH RESPECT TO WATER AT THE TIME THAT THE WORK IS SUSPENDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.
- COST OF THE NECESSARY PUMPS, WELL POINTS OR OTHER APPURTENANCES REQUIRED TO PREVENT FLOTATION SHALL BE INCLUDED IN THE UNIT PRICES BID IN THE PROPOSAL FOR THE VARIOUS BID ITEMS, AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. ANY DAMAGE WHICH MAY OCCUR TO ANY PART OF THE WORK AS THE RESULT OF THE FLOTATION EFFECT OF GROUND OR FLOOD WATERS SHALL BE REPAIRED IN A MANNER FULLY SATISFACTORY TO THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE AND PLACE ALL NECESSARY FLUMES OR OTHER CHANNELS OF ADEQUATE SIZE TO CARRY TEMPORARILY ALL STREAMS, BROOKS, STORMWATER OR OTHER WATER, WHICH MAY FLOW ALONG OR ACROSS THE LINES OF THE PIPE LINE. ALL FLUMES OR CHANNELS THUS UTILIZED SHALL BE TIGHT SO AS TO PREVENT LEAKAGE INTO THE TRENCHES. WATER PUMPED FROM TRENCHES SHALL BE LED TO NATURAL WATER COURSES. EXISTING SEWERS SHALL NOT BE EMPLOYED AS A DRAIN FOR THE REMOVAL OF DEWATERING WASTES.



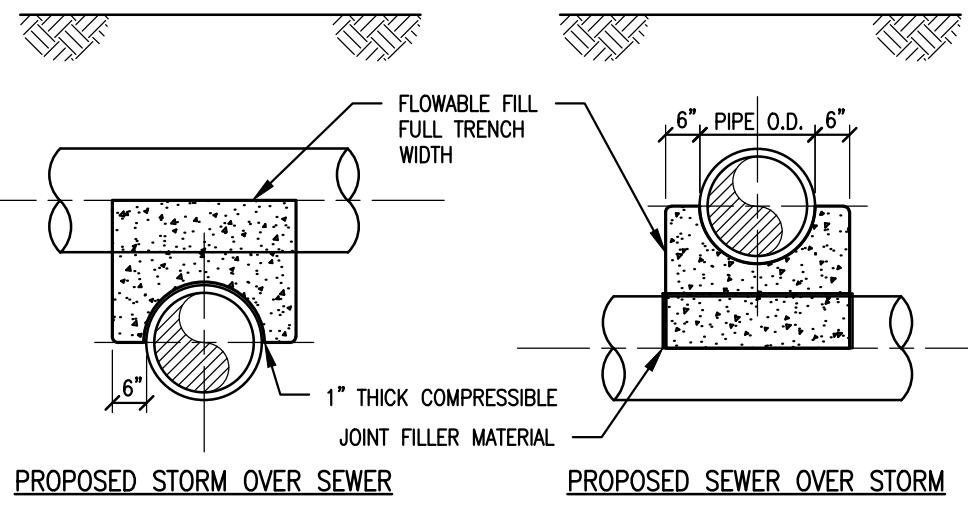
TAPPING SADDLE (OPTIONAL)
NOTE: TAP SHALL BE 4 1/2" FOR 4" LATERAL AND SHALL BE 6 1/2" FOR 6" LATERAL.



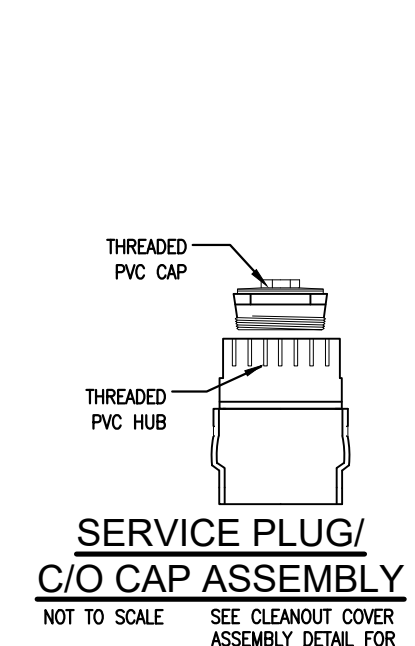
CLEANOUT COVER ASSEMBLY
NOT TO SCALE (FOR TRAFFIC AREAS)



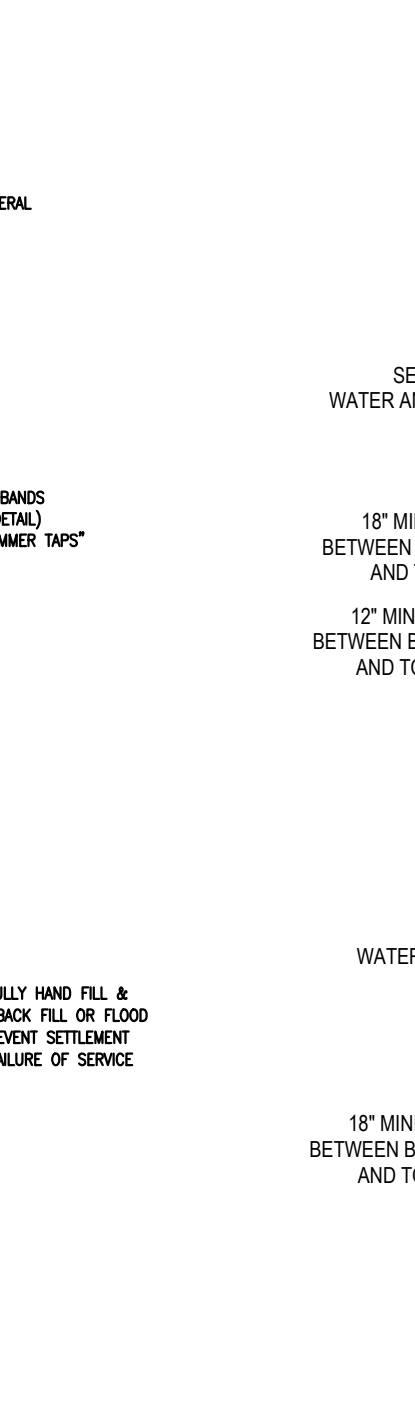
SERVICE PLUG/ C/O CAP ASSEMBLY
NOT TO SCALE SEE CLEANOUT COVER ASSEMBLY DETAIL FOR USE IN TRAFFIC AREAS



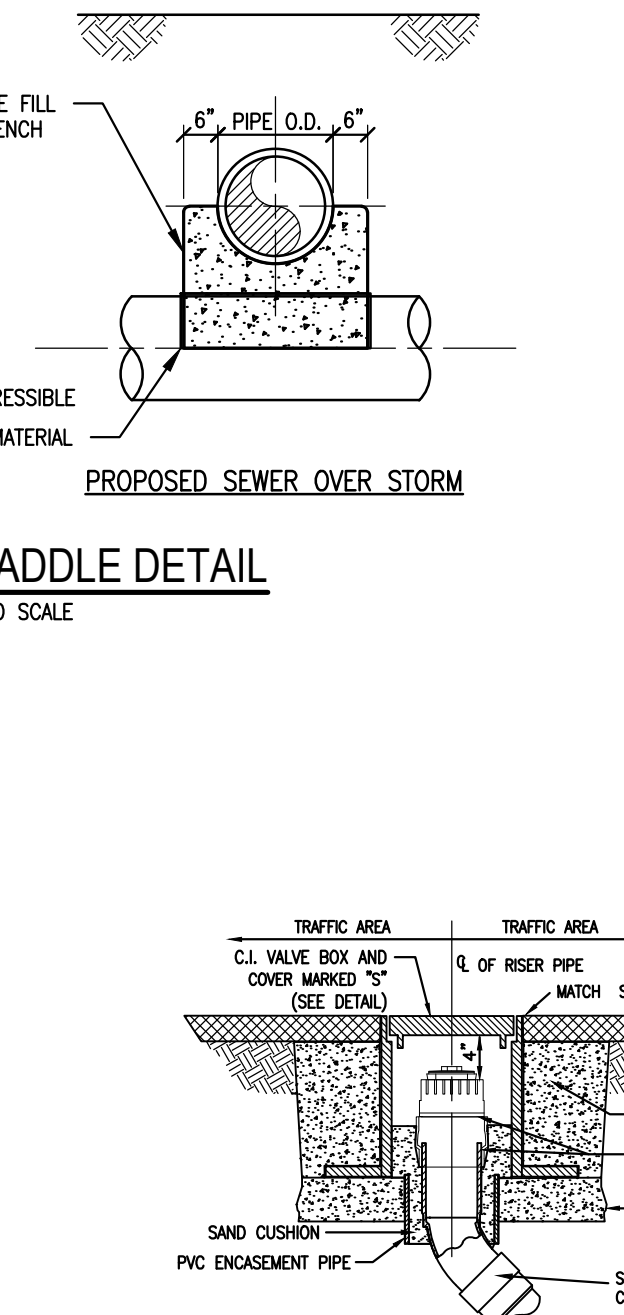
CONCRETE SADDLE DETAIL
NOT TO SCALE



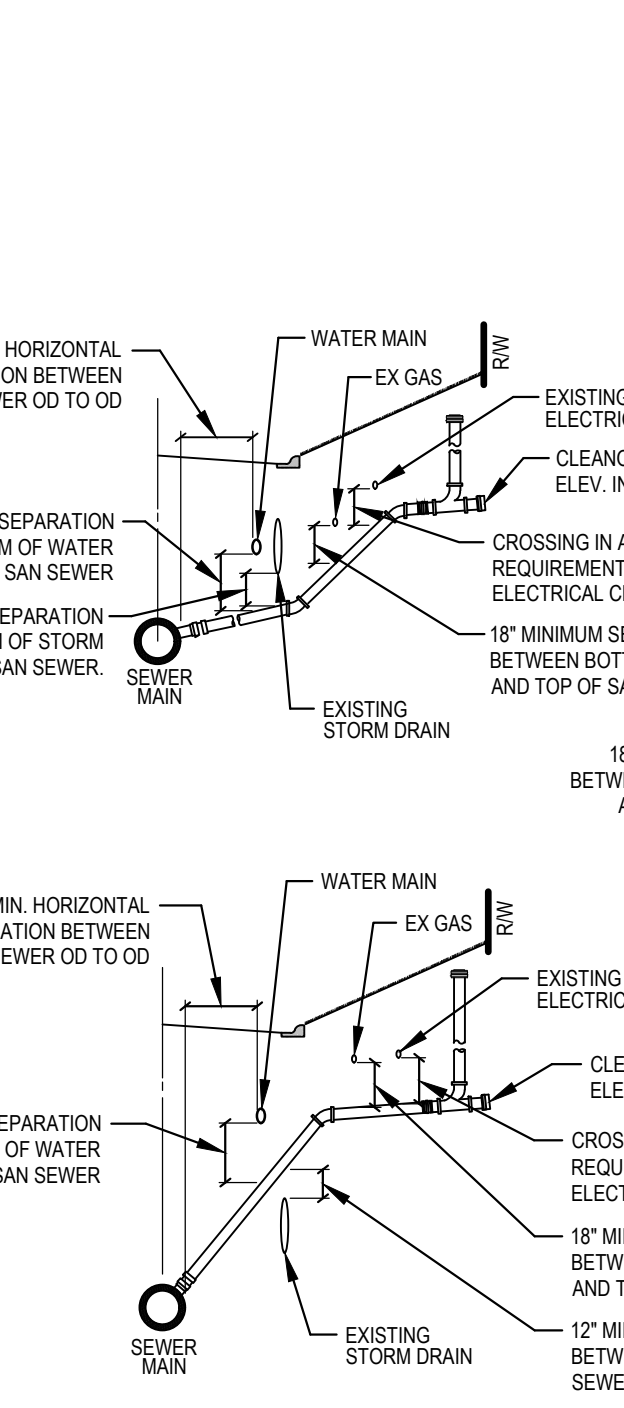
SEWER SERVICE CLEANOUT
NOT TO SCALE (FOR TRAFFIC AREAS)



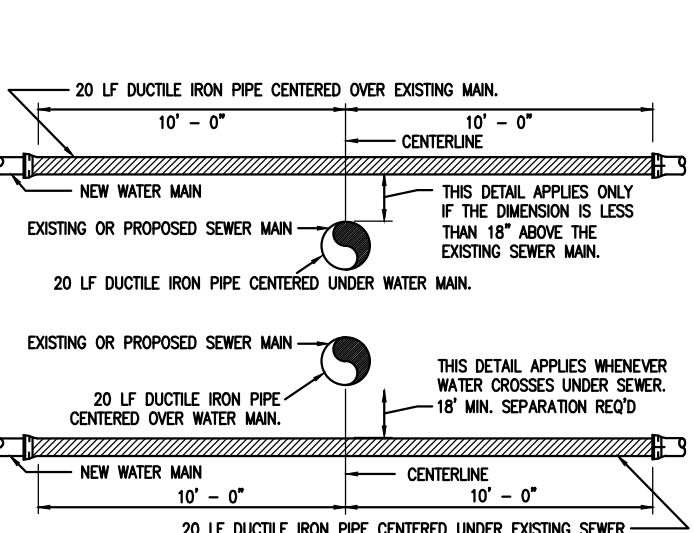
4" LATERAL SEWER SERVICE CONNECTION DETAIL
NOT TO SCALE LOCATIONS AS NOTED



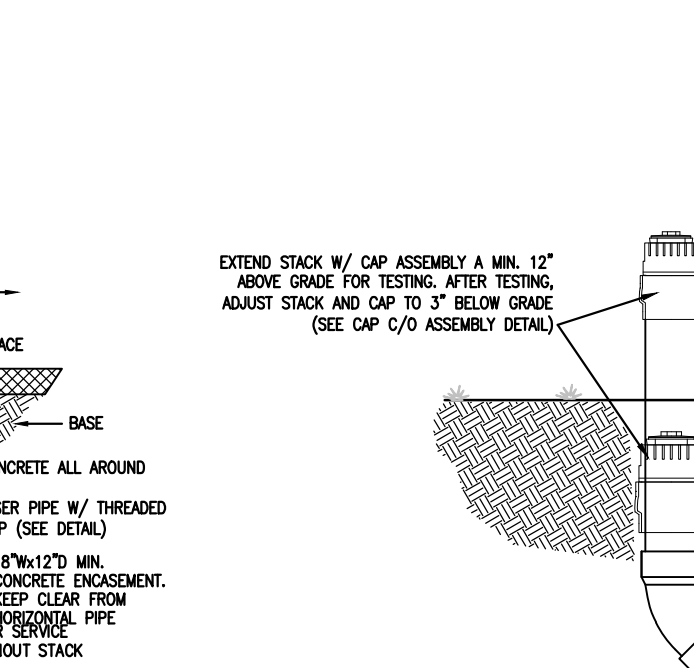
SEWER SERVICE CLEANOUT
NOT TO SCALE (FOR TRAFFIC AREAS)



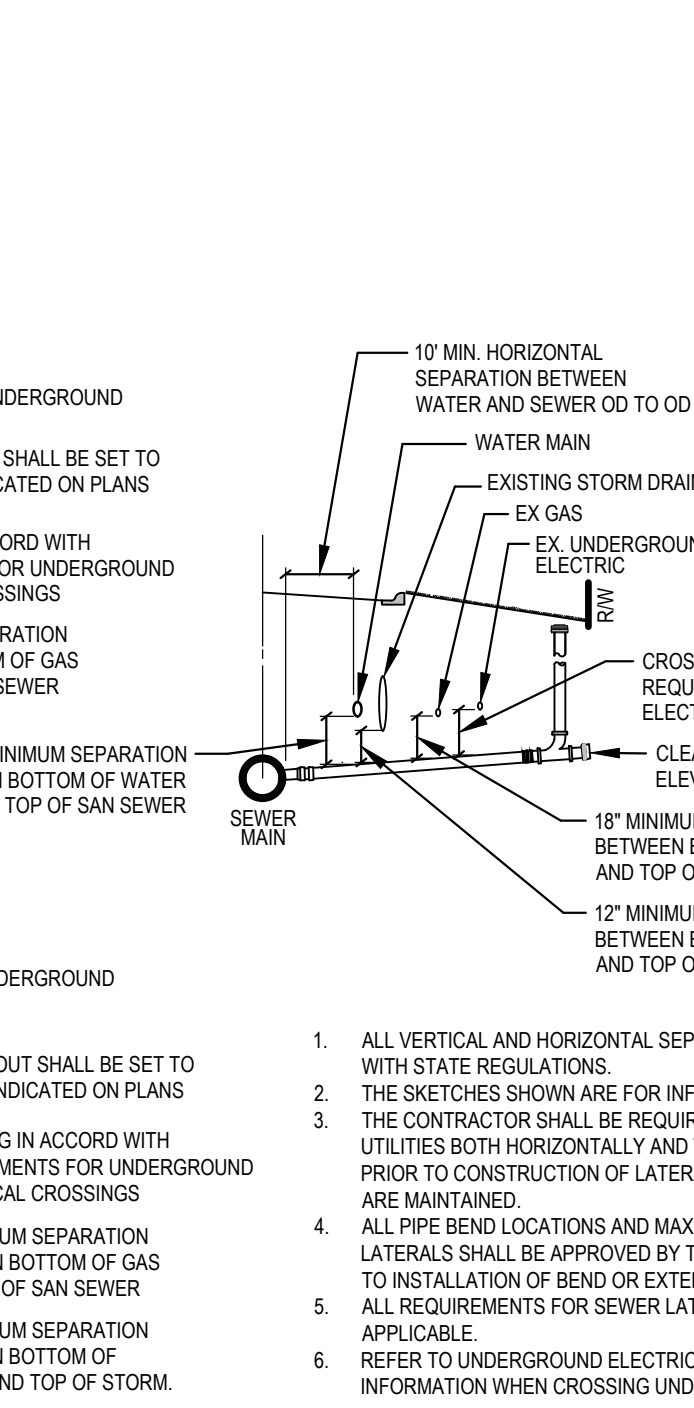
SEWER SERVICE LATERAL UTILITY CONNECTION DETAIL
NOT TO SCALE



WATER CROSSING SEWER DETAIL



SEWER SERVICE CLEANOUT
NOT TO SCALE (FOR NON-TRAFFIC AREAS)



SEWER SERVICE LATERAL UTILITY CONNECTION DETAIL
NOT TO SCALE

- ALL VERTICAL AND HORIZONTAL SEPARATION SHALL BE IN ACCORDANCE WITH STATE REGULATIONS.
- THE SKETCHES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
- THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY AT EACH CROSSING PRIOR TO CONSTRUCTION OF LATERAL TO INSURE PROPER CLEARANCES ARE MAINTAINED.
- ALL PIPE BEND LOCATIONS AND MAX. NUMBER OF BENDS INSTALLED ON LATERALS SHALL BE APPROVED BY THE PROJECT COORDINATOR PRIOR TO INSTALLATION OF BEND OR EXTENDING THE LATERAL FROM THE MAIN.
- ALL REQUIREMENTS FOR SEWER LATERAL NOTES AND DETAILS SHALL BE APPLICABLE.
- REFER TO UNDERGROUND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION WHEN CROSSING UNDERGROUND ELECTRICAL FACILITIES.

MSA ENGINEERS | SCIENTISTS | SURVEYORS

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PROFESSIONAL ENGINEER
NO. 031728
06/17/26

DESIGNED	JTP	JTP	CSA	CSA	DATE	06/17/26
DRAWN	JTP	CSA	CSA			
CHECKED						
APPROVED						

WASTEWATER COLLECTION TYP CONSTRUCTION DETAILS

OF

FOST PHASE 7 SUBDIVISION

CURRITUCK COUNTY, NORTH CAROLINA

MOYOCK TOWNSHIP

SHEET

C-507

20 of 20 Sheets

SCALE: AS SHOWN

PROJ. NO.: 25043

FINAL DESIGN
NOT RELEASED FOR
CONSTRUCTION