WEAVERS POINT

CONSTRUCTION PLANS

ZEBULON, NC

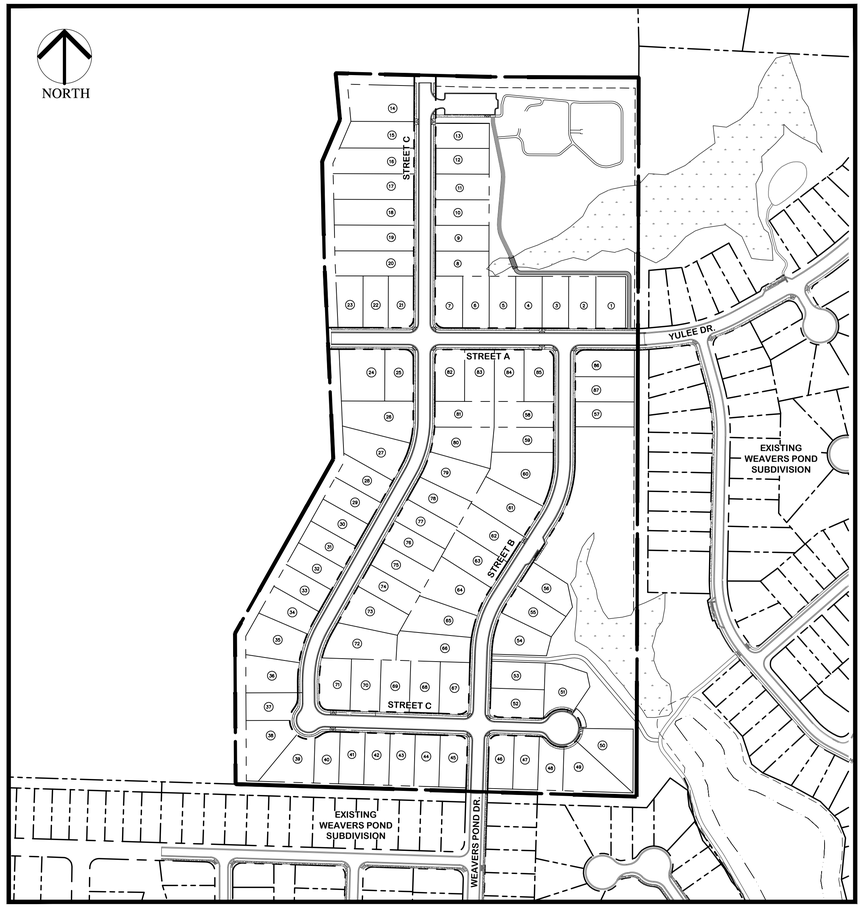
WAKE COUNTY

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF ZEBULON ENGINEERING DESIGN SPECIFICATIONS AND CONSTRUCTION STANDARDS,
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY SURVEY PROVIDED BY CAWTHORNE, MOSS & PANCIERA, P.C. PROFESSIONAL LAND SURVEYORS OF WAKE FOREST NC.
5. EXISTING TOPOGRAPHY WAS PROVIDED BY GEODATA CORP DIGITAL MAPPING SERVICES OF ZEBULON NC.
6. WETLAND SURVEY WAS PROVIDED BY JOYNER KEENY, PLLC PLANNING, SURVEYING & ENGINEERING OF ROCKY MOUNT NC.
7. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS
8. PLAN IS SUBJECT TO REVISIONS DURING CONSTRUCTION DRAWING APPROVAL PROCESS.
9. CONSTRUCTION DRAWING APPROVAL IS REQUIRED BEFORE CONSTRUCTION ON THIS PROJECT MAY BEGIN. THE DEVELOPER SHALL BE RESPONSIBLE FOR PAYING ALL APPLICABLE DEVELOPMENT FEES PRIOR TO CONSTRUCTION DRAWING APPROVAL.
10. ALL ROADWAY INFRASTRUCTURE CONSTRUCTION SHALL CONFORM TO THE TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
11. CONTRACTOR SHALL CONTACT THE TOWN OF ZEBULON TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING CONSTRUCTION.
12. ALL ROADWAY, SIDEWALK AND STORM DRAINAGE IMPROVEMENTS IN ROW OR DEDICATED PUBLIC EASEMENTS WILL BE REQUIRED TO BE DEDICATED TO THE TOWN OF ZEBULON AT COMPLETION OF THE PROJECT.
13. AS-BUILT SITE PLANS FOR ROADWAY AND UTILITY WORK MUST BE SUBMITTED AND APPROVED PRIOR TO FINAL ACCEPTANCE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RED-LINE LINE DRAWINGS.
14. DEVELOPER/OWNER IS RESPONSIBLE FOR CONTRACTING WITH THIRD PARTY NCDOT CERTIFIED TESTING FIRM. THE FIRM MUST BE APPROVED BY TOWN OF ZEBULON. MATERIAL TESTING IS REQUIRED FOR ALL ROADWAY WORK. FINAL REPORTING AND CERTIFICATION (SEALED) IS REQUIRED AT COMPLETION OF THE PROJECT BY THE GEO-TECHNICAL ENGINEER. TESTING IS REQUIRED FOR SUBGRADE, ROADWAY STONE, ASPHALT AND CURB AND GUTTER PER TOWN OF ZEBULON SPECS.
15. ALL CURB AND GUTTER REQUIRES CONCRETE TESTING FOR THE FOLLOWING REQUIREMENTS (SECTION 2.1.1):
16. i. 4" CONCRETE SLUMP
17. ii. TEMPERATURE - 50 AND 90 DEGREES
18. iii. AIR MIXTURE RANGE 3.5% TO 6.5%
19. iv. STRUCTURAL BREAK TEST - 7,14,28 DAYS @ 3,000PSI @ 28 DAYS
20. v. SAMPLES EVERY 1,000 LF OF CURB AND GUTTER TO ENSURE QUALITY
21. vi. MAX WATER-CEMENT RATIO BY WEIGHT: 0.594
22. vii. MINIMUM CEMENT CONTENT (LBS/CY): 602
23. CONCRETE SIDEWALK TESTING IS NOT REQUIRED; UNLESS CONSTRUCTION INSPECTOR DETERMINES THAT QUALITY IS INFERIOR AND DOES NOT MEET INDUSTRY STANDARDS. CONTRACTOR MUST MAINTAIN A 4" SLUMP FOR ALL SIDEWALK WORK. AIR TEMPERATURES AT PLACEMENT MUST BE 40 DEGREES AND RISING. SURFACE TEMPERATURES SHALL BE 50 DEGREES OR GREATER. (SECTION 2.2.2 E)
24. ASPHALT CORE SAMPLES SHOULD BE SELECTED EVERY 300 FEET OR MINIMUM OF TWO CORES PER ROADWAY FOR ANALYSIS OF THICKNESS AND DENSITY. ASPHALT MIX SF 9.5 B SHOULD BE COMPACTED TO A MINIMUM OF 92% OF THE MAXIMUM SPECIFIC GRAVITY. ASPHALT MIX OF 9.5 A SHOULD BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM SPECIFIC GRAVITY. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING/CREATING A CHART/MAP OF THE CORED LOCATIONS FOR SUBMITTAL WITH THE TESTING. CORES WILL BE RANDOMLY TAKEN ALONG THE LONGITUDINAL DIRECTIONS ACROSS THE ROADWAY BUT NOT WITHIN ONE FOOT OF THE EDGE OF PAVEMENT. THE RESULTS OF THE SAMPLES GREATER THAN TEN FEET APART WILL NOT BE AVERAGED AND USED TO VERIFY COMPLIANCE WITH THE TOWN OF ZEBULON SPECIFICATIONS. (SECTION 2.6.H)
25. ROADWAY SUB-GRADE TESTING/INSTALLATION REQUIREMENTS: 98% STANDARD PROCTOR ON ALL SOILS EVERY 300'. ALL LOCATIONS TESTED SHALL MEET 98% TESTING REQUIREMENTS. AVERAGING OF DENSITY SCORES TO MEET STANDARD IS NOT ALLOWED. SUCCESSFUL PROOF ROLLS REQUIRED FOR ALL SUB-GRADE SOILS. (SECTION 2.5.2 A)
26. ROADWAY ABC STONE TESTING/INSTALLATION REQUIREMENTS: 98% STANDARD PROCTOR ON ALL ROADWAY ABC EVERY 150 FEET. ALL LOCATIONS TESTED SHALL MEET THE 98% TESTING REQUIREMENTS. AVERAGING OF DENSITY SCORES TO MEET STANDARDS IS NOT ALLOWED. SUCCESSFUL PROOF ROLLS REQUIRED FOR ALL ROADWAY ABC STONE. (SECTION 2.5.3 A)
27. IF THE ROADWAY SUBGRADE OR ROADWAY STONE IS EXPOSED TO PRECIPITATION (RAIN, SNOW, ICE, ETC.) GREATER THAN 0.10 OF AN INCH BEFORE IT IS COVERED WITH ABC STONE OR ASPHALT THE EXPOSED SUBGRADE OR ABC STONE MUST PASS AN ADDITIONAL PROOF ROLL. ADDITIONAL DENSITY IS NOT REQUIRED.
28. IMPERVIOUS SURFACE COVERAGE SHALL NOT EXCEED IMPERVIOUS SHOWN ON THE LOT. IMPERVIOUS SURFACE LIMITS WILL BE STRICTLY ENFORCED INTO PERPETUITY.

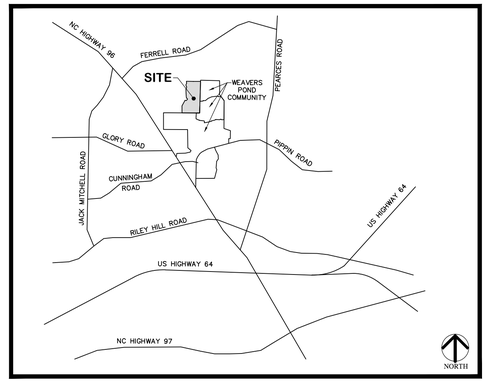
ZONING CONDITIONS

1. ALL LOTS SHALL BE A MINIMUM OF 8,700 SQUARE FEET.
2. ALL LOT WIDTHS SHALL BE A MINIMUM OF 70'.
3. ALL DWELLINGS WILL HAVE A MINIMUM TWO-CAR GARAGE.
4. GARAGE DOORS WILL HAVE WINDOWS AND CARRIAGE HARDWARE.
5. GARAGES: GARAGE DOORS SHALL BE RECESSED BEHIND THE FRONT PLANE OF THE HOME A MINIMUM OF 8". WHERE A HOME PROVIDES A FRONT PORCH, THE GARAGE MAY EXTEND BEYOND THE FRONT PLANE OF THE HOME, PROVIDED THE FRONT PORCH EXTENDS BEYOND THE FRONT PLAIN OF THE GARAGE A MINIMUM OF 1'.
6. THE HOMES CONSTRUCTED SHALL HAVE A MINIMUM OF 30% THAT WILL CONTAIN EITHER FRONT PORCHES THAT WRAP AROUND THE CORNER OF THE FRONT FAÇADE OR SIDE-LOADED GARAGES. THE HOMES CONSTRUCTED WITH SIDE-LOADED GARAGES AND "J" DRIVEWAYS SHALL BE ALLOWED A SIDE SETBACK OF 5'.
7. FOR ALL LOTS, THE ENTIRE YARD WILL BE SODDED.
8. EXTERIOR BUILDING MATERIALS: EXTERIOR SIDING WILL BE PRIMARILY FIBER CEMENT WITH BRICK OR STONE ACCENTS. THE USE OF VINYL SIDING SHALL BE PROHIBITED, EXCEPT FOR TRIM ELEMENTS OF THE DWELLING UNIT FACADE. SIDING STYLES WILL INCLUDE HORIZONTAL, SHAKE, OR BOARD AND BATTEN DESIGN. AT LEAST TWO (2) OF THE FOLLOWING MATERIALS SHALL BE USED ON EACH UNIT FIBER-CEMENT, MASONRY BRICK, BRICK VENEER, MASONRY STONE, STONE VENEER, OR SYNTHETIC STONE.
9. FOUNDATIONS: FOUNDATIONS SHALL BE RAISED ABOVE THE FINISHED GRADE – AS MEASURED ALONG THE FRONT, STREET FACING FINISHED GRADE OF THE BUILDING PAD - A MINIMUM OF 18". FOUNDATION TYPES MAY INCLUDE: STEM WALL, RAISED SLAB, OR CRAWL SPACE.
10. AMENITIES WILL INCLUDE A DOG PARK, WALKING TRAILS, AND MAINTAINED OPEN SPACE. ALL OPEN SPACE AND AMENITIES WILL BE MAINTAINED BY THE HOA
11. A MINIMUM OF 8" ROOF OVERHANG SHALL BE PROVIDED ALONG THE FRONT AND BACK OF EACH DWELLING UNIT.
12. A 10-FOOT UNDISTURBED BUFFER WILL BE MAINTAINED AROUND THE DEVELOPMENT. WHERE EXISTING PLANTS DO NOT MEET THE REQUIREMENTS OF THE UDO, PLANTINGS WILL BE SUPPLEMENTED TO MEET THE REQUIREMENT.
13. THE REQUIRED DECORATIVE FEATURES FOR EACH HOME CONSTRUCTED SHALL CONTAIN AT LEAST ONE OF THE FOLLOWING: A DECORATIVE FRONT DOOR (MINIMUM 25% GLAZING); WINDOW TRANSOM, DOOR SIDELIGHTS, OR DOOR TRANSOM.
14. WINDOW TREATMENTS: WINDOWS ON FRONT ELEVATIONS SHALL OFFER EITHER TRIM OR SHUTTERS. TRIM ALONG HEADERS AND SILLS SHALL BE A MINIMUM OF 3" WIDE. SHUTTERS ARE DECORATIVE AND MAY OR MAY NOT BE "OPERATIONAL". SHUTTERS SHALL HAVE A MINIMUM WIDTH OF 18".
15. PORCHES: FRONT PORCHES SHALL EXTEND BEYOND THE FRONT PLAIN OF THE GARAGE ON 30% OF THE HOMES CONSTRUCTED. FRONT PORCHES SHALL BE ALLOWED TO EXTEND BEYOND THE FRONT SETBACK OF THE BUILDING ENVELOP A MAXIMUM OF 10'.
16. ALL HOMES WILL HAVE A REAR PATIO OR DECK OF AT LEAST 100 SQUARE FEET.
17. ACCESSORY BUILDINGS SHALL BE CONSTRUCTED OF MATERIALS THAT MATCH THE SINGLE-FAMILY DWELLING.
18. IN ORDER TO PROMOTE VARIATION IN HOME APPEARANCE, NO FRONT ELEVATION OR PRIMARY SIDING COLOR SHALL BE CONSTRUCTED WITHIN TWO HOUSES OF AN IDENTICAL ELEVATION OR PRIMARY SIDING COLOR ON THE SAME SIDE OF THE STREET OR ACROSS THE STREET. FOR CORNER LOTS, NO IDENTICAL ELEVATION OR PRIMARY SIDING COLOR WILL BE CONSTRUCTED DIAGONALLY ACROSS AN INTERSECTION.
19. HOMEOWNERS ASSOCIATION WILL NOT ALLOW ANY RENTAL HOMES. THIS RESTRICTION SHALL BE RECORDED IN HOA COVENANTS, CONDITIONS AND RESTRICTIONS. HOA SHALL BE REQUIRED TO ANNUALLY REPORT HOMEOWNER STATUS TO THE TOWN OF ZEBULON.
20. HOMEOWNERS ASSOCIATION SHALL BE OPERATIONAL PRIOR TO THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY.
21. HOMEOWNERS ASSOCIATION SHALL APPOINT ONE RESIDENT TO THE ADVISORY BOARD AT 25% RESIDENT OCCUPIED, ONE RESIDENT AT 50% OCCUPIED AND ONE RESIDENT AT 75% OCCUPIED.
22. ALL INDIVIDUAL WATER BOOSTER PUMPS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS MANUAL.
23. ALL HOME DESIGN AND CONSTRUCTION SHALL CONFORM TO SECTION 5.2 OF THE TOWN OF ZEBULON'S UNIFIED DEVELOPMENT ORDINANCE.
24. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED FOR ANY NEW RESIDENCES LOCATED NORTH OF YULEE DRIVE (AS EXTENDED THROUGH THE PROPERTY) UNTIL THE EARLIER OF (i) THE TOWN OPENS A PROPOSED NEW FIRE STATION AT W. JUDD STREET; OR, (ii) SEVEN (7) YEARS FROM THE DATE OF THE APPROVAL OF THE REZONING.



VICINITY MAP

SCALE: 1"=200'



VICINITY MAP NTS

SUBDIVISION PLAN INFORMATION

1.	DEVELOPMENT NAME:	WEAVERS POINT
2.	WAKE COUNTY P.I.N.s:	1797613206
3.	TOTAL NUMBER OF LOTS:	87 SINGLE FAMILY LOTS (2.0 UNITS/ACRE)
4.	TRACT AREA:	43.10 AC
5.	ZONING:	R-4
6.	INSIDE TOWN LIMITS:	YES
7.	WATERSHED:	NEUSE RIVER BASIN
8.	DEDICATED STREET RIGHT OF WAY:	6.57 AC.
9.	DISTURBED AREA:	38.0 AC.
10.	OPEN SPACE PROVIDED	11.7 ACRES
11.	PROPOSED IMPERVIOUS SURFACE	STREETS/SIDEWALKS = 3.75 AC (INCLUDES GREEWNAY AND AMENITIES LOTS = 6.99 AC± (3,500 SF/LOT) TOTAL = 10.74 AC±
12	FEMA INFORMATION	THE SITE IS NOT WITHIN A FEMA FLOOD ZONE PER MAP # 3720179600J PANEL 1796, EFFECTIVE DATE 05/02/06
13.	DEVELOPER:	GREYHILL DEVELOPMENT, LLC 9381 BARTONS CREEK RD RALEIGH NC 27615-9705 (919)606-8956 (PHONE) ATTN: GREY BERRY - FUTRELL DEVELOPMENT, LLC.
14.	OWNER:	GREYHILL DEVELOPMENT, LLC 9381 BARTONS CREEK RD RALEIGH NC 27615-9705 (919)606-8956 (PHONE) ATTN: GREY BERRY - FUTRELL DEVELOPMENT, LLC.
15.	CONTACT PERSON	PIEDMONT LAND DESIGN, LLP c/o MIKE SCHNEIDER 8522-204 SIX FORKS ROAD RALEIGH , NORTH CAROLINA 27615 (919) 845-7600 (PHONE) (919) 845-7703 (FAX) MikeS@piedmontlanddesign.com (E-MAIL)

DRAWING INDEX

BUILDING SETBACKS

FRONT YARD: 30' - SEE ZONING CONDITION #15.
SIDE YARD: 10' - SEE ZONING CONDITION #6.
REAR YARD: 25'

LOT QUANTITIES

LOTS	QUANTITY
SINGLE FAMILY	87 LOTS

PUBLIC STREET QUANTITIES

STREET	LENGTH
STREET A	885 LF
STREET B	1,329 LF
STREET C	2,589 LF

STREET LIGHT QUANTITIES

TYPE	QUANTITY
STREET LIGHTS	19

PUBLIC STORM QUANTITIES

SIZE	LENGTH
15"	875 LF
18"	347 LF
24"	1,277 LF
30"	537 LF
TOTAL	3,036 LF

HOA STORM QUANTITIES

SIZE	LENGTH
15"	1,752 LF
18"	566 LF
24"	295 LF
30"	229 LF
TOTAL	2,842 LF

PUBLIC WATER QUANTITIES

SIZE	LENGTH
8" DIP	1,883 LF
12" DIP	2,898 LF

NUMBER OF SERVICE CONNECTIONS = 87
NUMBER OF STUBS = 2
NUMBER OF MAIN TIE-IN POINTS = 2
NUMBER OF SERVICE ABANDONMENTS = 0

PUBLIC SEWER QUANTITIES

SIZE	PHASE 7
8" DIP	1,425 LF
8" PVC	2,773 LF
TOTAL	4,198 LF

NUMBER OF SERVICE CONNECTIONS = 87
NUMBER OF STUBS = 0
NUMBER OF MAIN TIE-IN POINTS = 2
NUMBER OF SERVICE ABANDONMENTS = 0

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☐ SEC-_____

STORMWATER MGMT.☐SWF-_____

FLOOD STUDY ☐ SWF-_____

DATE_____

WAKE COUNTY NORTH CAROLINA EFFECTIVE: 06/27/13

ENVIRONMENTAL CONSULTANT SIGNATURE

ATTENTION CONTRACTORS

The ***Construction Contractor*** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for ***contacting*** the ***Public Utilities Department*** at ***(919) 996-4540*** at least ***twenty four hours*** prior to beginning any of their construction.

Failure to notify both ***City Departments*** in advance of beginning construction, will result in the issuance of ***monetary fines***, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for ***Inspection, Install a Downstream Plug***, have ***Permitted Plans*** on the ***Jobsite***, or any other ***Violation*** of ***City of Raleigh Standards*** will result in a ***Fine and Possible Exclusion*** from future work in the ***City of Raleigh***.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____

Raleigh Water Review Office

Public
Water Distribution / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

Public
Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

PLD

PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **02 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

COVER SHEET

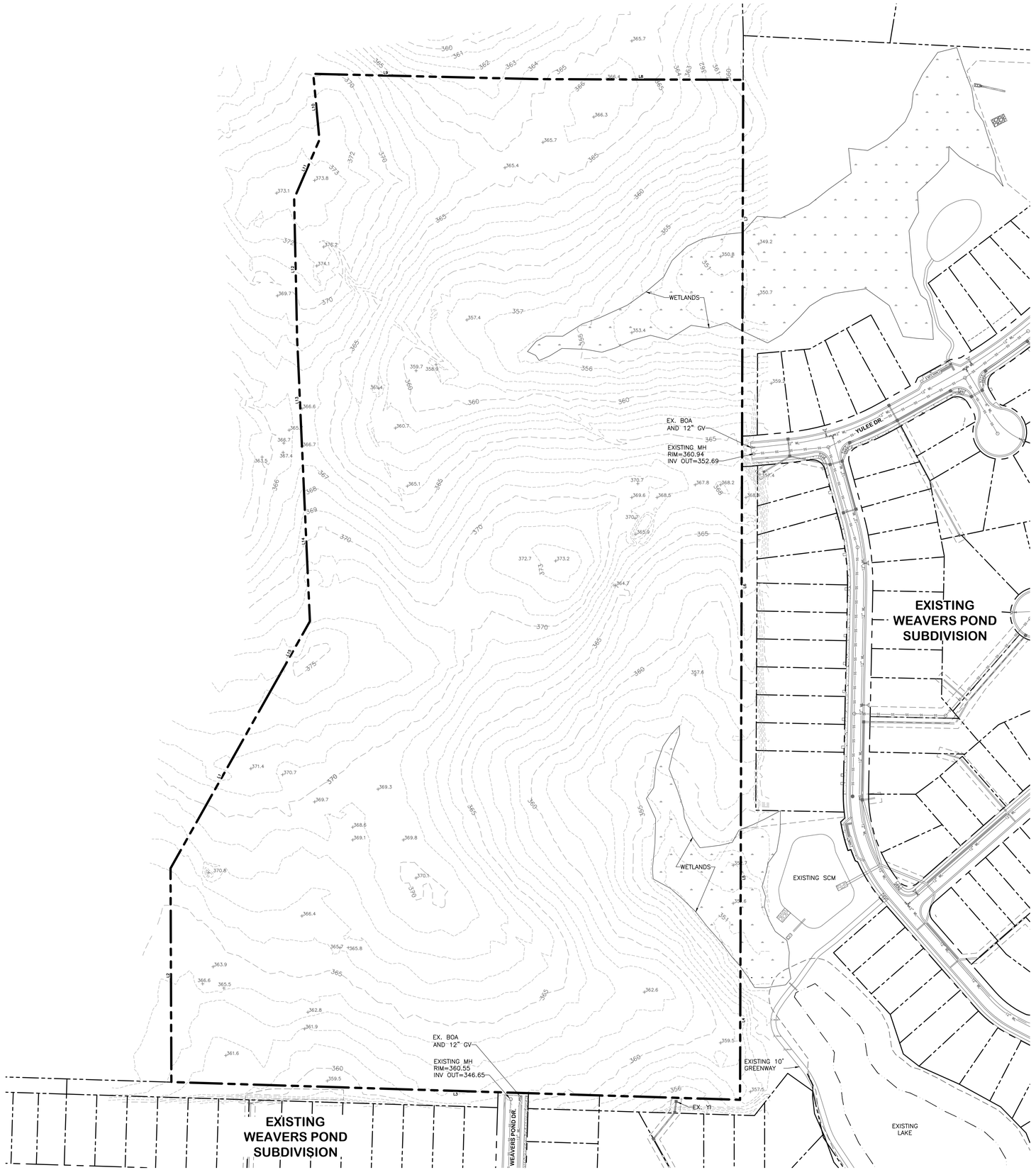
DWG. NO. **SITE 1**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 1-COVER Feb 14, '24 - 7:16am

EXIST. CONDITIONS/DEMOLITION NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ZEBULON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING OR RELOCATING ALL UTILITIES IN CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO DISTURBANCE.
5. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS.

PROPERTY LINE TABLE		
LINE	BEARING	DISTANCE
L1	S29°25'35"W	410.17'
L2	S0°13'56"E	421.29'
L3	S88°12'45"E	1121.08'
L4	N0°10'44"E	314.71'
L5	N0°10'44"E	247.07'
L6	N0°10'44"E	902.26'
L7	N0°10'44"E	546.54'
L8	N89°49'16"W	402.92'
L9	N88°38'39"W	444.40'
L10	S5°21'34"E	130.41'
L11	S23°12'17"W	126.59'
L12	S1°13'47"E	277.68'
L13	S2°35'08"E	238.30'
L14	S2°35'08"E	317.62'
L15	S29°25'35"W	148.88'



NORTH

0 100 200

SCALE IN FEET: 1"=100'

PLD

PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

EXISTING CONDITIONS

DWG. NO. **SITE 2**

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GENERAL NOTES

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STRIPING NOTES

1. ALL STRIPING SHALL BE THERMOPLASTIC.

PROPERTY LINE TABLE		
LINE	BEARING	DISTANCE
L1	S29°25'35"W	410.17'
L2	S0°13'56"E	421.29'
L3	S88°12'45"E	1121.08'
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L12	S1°13'47"E	277.68'
L13	S2°35'08"E	238.30'
L14	S2°35'08"E	317.62'
L15	S29°25'35"W	148.88'

NORTH

0 100 200 300

SCALE IN FEET: 1"=100'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
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ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

OVERALL SITE PLAN

DWG. NO. **SITE 3**

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GENERAL NOTES

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STRIPING NOTES

1. ALL STRIPING SHALL BE THERMOPLASTIC.

30' BUFFER
L9
L10
L11
L12
L13
L14
L7
L8
L6
STREET C
STREET A
STREET B
TRANSITION FROM 30" VALLEY CURB TO 24" STANDARD CURB & GUTTER AFTER ROW LINE
30'R (TYP BOTH SIDES)
SCM MAINTENANCE & ACCESS EASEMENT
6' CONCRETE SIDEWALK
WHEEL STOPS AND H/C SIGNAGE (SEE DETAIL ON DETAIL SHEET)
6" CROSSWALK PER NCDOT DETAIL 1205.07 (TYP)
PLAYGROUND AREA. SPECIFIC LAYOUT AND EQUIPMENT SELECTION TO BE PROVIDED BY EQUIPMENT PROVIDER.
DOG PARK W/4' HIGH VINYL COATED BLACK CHAIN LINK FENCE. SEE DETAIL ON DETAIL SHEET FOR SITE LAYOUT DETAILS
5' WIDE MULCH PATH
PLAY FIELD
10' BUFFER
5' WIDE MULCH PATH
10' ASPHALT GREENWAY (TYP.)
SCM MAINTENANCE & ACCESS EASEMENT
SCM #1
WETLANDS
35' LONG WOODEN BOARDWALK OVER WETLANDS. BOARDWALK DESIGN BY OTHERS.
10' ASPHALT GREENWAY (TYP.)
DECORATIVE STREET LIGHT (TYP.)
20' HOA DRAINAGE EASEMENT
5' PUBLIC UTILITY EASEMENT
20' TOZ DRAINAGE EASEMENT
60' ROW
35' B-B
10'x70' SDT (TYP)
6' CROSSWALK AND STOP BAR PER NCDOT DETAIL 1205.07 (TYP)
25'R (TYP)
5' PUBLIC UTILITY EASEMENT (TYP)
R=300
YULEE DR.
EXISTING WEAVERS POND SUBDIVISION
SCM MAINTENANCE & ACCESS EASEMENT
SEE NEXT SHEET
SEE NEXT SHEET

14	18,518 SF	0.43 AC	
15	14,335 SF	0.33 AC	
16	15,882 SF	0.36 AC	
17	16,173 SF	0.37 AC	
18	16,046 SF	0.37 AC	
19	15,957 SF	0.37 AC	
20	15,369 SF	0.35 AC	
23	10,573 SF	0.24 AC	
22	10,244 SF	0.24 AC	
21	10,113 SF	0.23 AC	
13	10,500 SF	0.24 AC	
12	10,774 SF	0.25 AC	
11	10,774 SF	0.25 AC	
10	10,774 SF	0.25 AC	
9	10,780 SF	0.25 AC	
8	10,500 SF	0.24 AC	
7	11,025 SF	0.25 AC	
6	10,734 SF	0.25 AC	
5	10,730 SF	0.25 AC	
4	10,731 SF	0.25 AC	
3	10,731 SF	0.25 AC	
2	11,039 SF	0.25 AC	
1	12,062 SF	0.28 AC	
24	18,064 SF	0.41 AC	
25	11,466 SF	0.26 AC	
26	18,655 SF	0.43 AC	
27	16,569 SF	0.38 AC	
82	11,910 SF	0.27 AC	
83	12,044 SF	0.28 AC	
84	12,044 SF	0.28 AC	
85	11,910 SF	0.27 AC	
81	11,965 SF	0.27 AC	
58	11,961 SF	0.27 AC	
80	15,650 SF	0.36 AC	
59	11,854 SF	0.27 AC	
(86)	12,241 SF	0.28 AC	
87	11,550 SF	0.27 AC	
57	11,550 SF	0.27 AC	

NORTH

0 50 100 150

SCALE IN FEET: 1"=50'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILED SITE PLAN SHEET 1 OF 2

DWG. NO. **SITE 4**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 4-5-DETAILED SITE Feb 14, '24 - 9:32am

SEE PREVIOUS SHEET

SEE PREVIOUS SHEET

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ZEBULON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING OR RELOCATING ALL UTILITIES IN CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO DISTURBANCE.

STRIPING NOTES

1. ALL STRIPING SHALL BE THERMOPLASTIC.

STREET C

STREET B

WEAVERS POND DR.

SCM #2

EXISTING WEAVERS POND SUBDIVISION

EXISTING WEAVERS POND SUBDIVISION

20' HOA DRAINAGE EASEMENT

5' PUBLIC UTILITY EASEMENT

20' TOZ DRAINAGE EASEMENT

6' CROSSWALK PER NCDOT DETAIL 1205.07 (TYP)

SIDEWALK EASEMENT

MAIL KIOSK (ADA ACCESSIBLE AND UNDER A COVERED SHELTER). 6 UNITS TO SERVE ALL LOTS. SEE DETAIL ON DETAIL SHEET.

SCM MAINTENANCE & ACCESS EASEMENT

6' CROSSWALK AND STOP BAR PER NCDOT DETAIL 1205.07 (TYP)

60' ROW
35' B-B

50' ROW
26' B-B

25'R (TYP)

35'R
25'R

48'R
53'R

10' BUFFER

30' BUFFER

10' ASPHALT GREENWAY

VISITORS PARKING (4 SPACES)

WHEEL STOPS AND H/C SIGNAGE (SEE DETAIL ON DETAIL SHEET)

EXISTING 10' ASPHALT GREENWAY

10'x70' SDT (TYP)

H/C

NORTH

0 50 100 150

SCALE IN FEET: 1"=50'

PLD

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8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILED SITE PLAN SHEET 2 OF 2

DWG. NO. **SITE 5**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 4-5-DETAILED SITE Feb 14, '24 - 9:45am

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NORTH

0 100 200 300

SCALE IN FEET: 1"=100'

PLD

PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

OVERALL GRADING PLAN

DWG. NO. **SITE 6.0**

GENERAL NOTES

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2% MAX IN ALL DIRECTIONS WITHIN H/C SPACES AND ACCESS

PLAY GROUND

PLAY FIELD

DOG PARK

SCM MAINTENANCE & ACCESS EASEMENT

SCM #1

WETLANDS

35' LONG WOODEN BOARDWALK OVER WETLANDS. BOARDWALK DESIGN BY OTHERS.

20' HOA DRAINAGE EASEMENT

20' TOZ DRAINAGE EASEMENT

STREET A

STREET B

STREET C

EXISTING WEAVERS POND SUBDIVISION

SCM MAINTENANCE & ACCESS EASEMENT

SEE NEXT SHEET

SEE NEXT SHEET

NORTH

0 50 100 150

SCALE IN FEET

PLD

PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINTE SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILED GRADING PLAN SHEET 1 OF 2

DWG. NO. **SITE 7**

SEE PREVIOUS SHEET

SEE PREVIOUS SHEET

STREET C

STREET B

STREET C

20' HOA DRAINAGE EASEMENT

20' HOA DRAINAGE EASEMENT

20' HOA DRAINAGE EASEMENT

20' HOA DRAINAGE EASEMENT

20' HOA DRAINAGE EASEMENT

20' TOZ DRAINAGE EASEMENT

SCM #2

SCM MAINTENANCE & ACCESS EASEMENT

SCM MAINTENANCE & ACCESS EASEMENT

EXISTING WEAVERS POND SUBDIVISION

25' MAX IN ALL DIRECTIONS WITHIN H/C SPACE AND ACCESS

NORTH

0 50 100 150

SCALE IN FEET

PLD

PIEDMONT LAND DESIGN, PLLC

8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

2-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

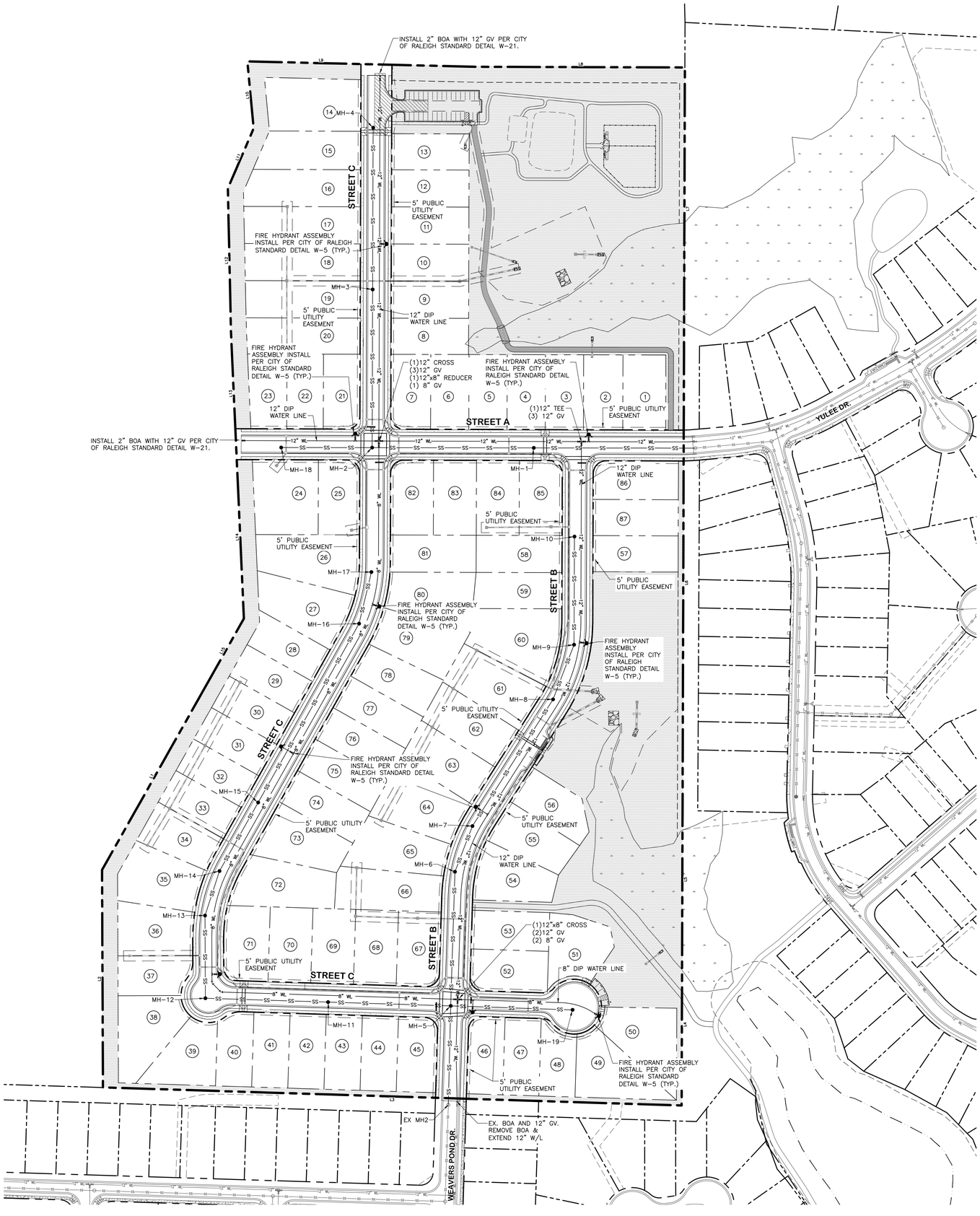
DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILED GRADING PLAN SHEET 2 OF 2

DWG. NO. **SITE 8**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 7-8 DETAILED GRADING Feb 14, '24 - 9:45am



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5. AN INDIVIDUAL BOOSTER PUMP TANK SHALL BE INSTALLED ON ANY LOT HAVING WATER SERVICE PRESSURES BELOW 40 PSI.
6. ALL SANITARY SEWER SHOWN ON PLAN IS 8" DIAMETER UNLESS OTHERWISE NOTED.

CITY OF RALEIGH STANDARD UTILITY NOTES

STANDARD UTILITY NOTES (AS APPLICABLE):

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   - A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25 FROM A PRIVATE WELL OR 50 FROM A PUBLIC WELL.
   - B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18' ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER
   - C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10'ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS
   - D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
   - E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49)
   - F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION
4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT
5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS
6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE
7. INSTALL 3/4" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE
8. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM
9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0 ABOVE THE NEXT UPSTREAM MANHOLE
10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION
12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION
13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION

Public
Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

ATTENTION CONTRACTORS

The *Construction Contractor* responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for *contacting* the *Public Utilities Department* at *(919)996-4540* at least *twenty four hours* prior to beginning any of their construction.

Failure to call for *Inspection, Install a Downstream Plug,* have *Permitted Plans* on the *Jobsite,* or any other *Violation* of *City of Raleigh Standards* will result in a *Fine and Possible Exclusion* from future work in the *City of Raleigh.*

INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

PUBLIC UTILITIES_____

NORTH

0 100 200 300

SCALE IN FEET: 1"=100'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

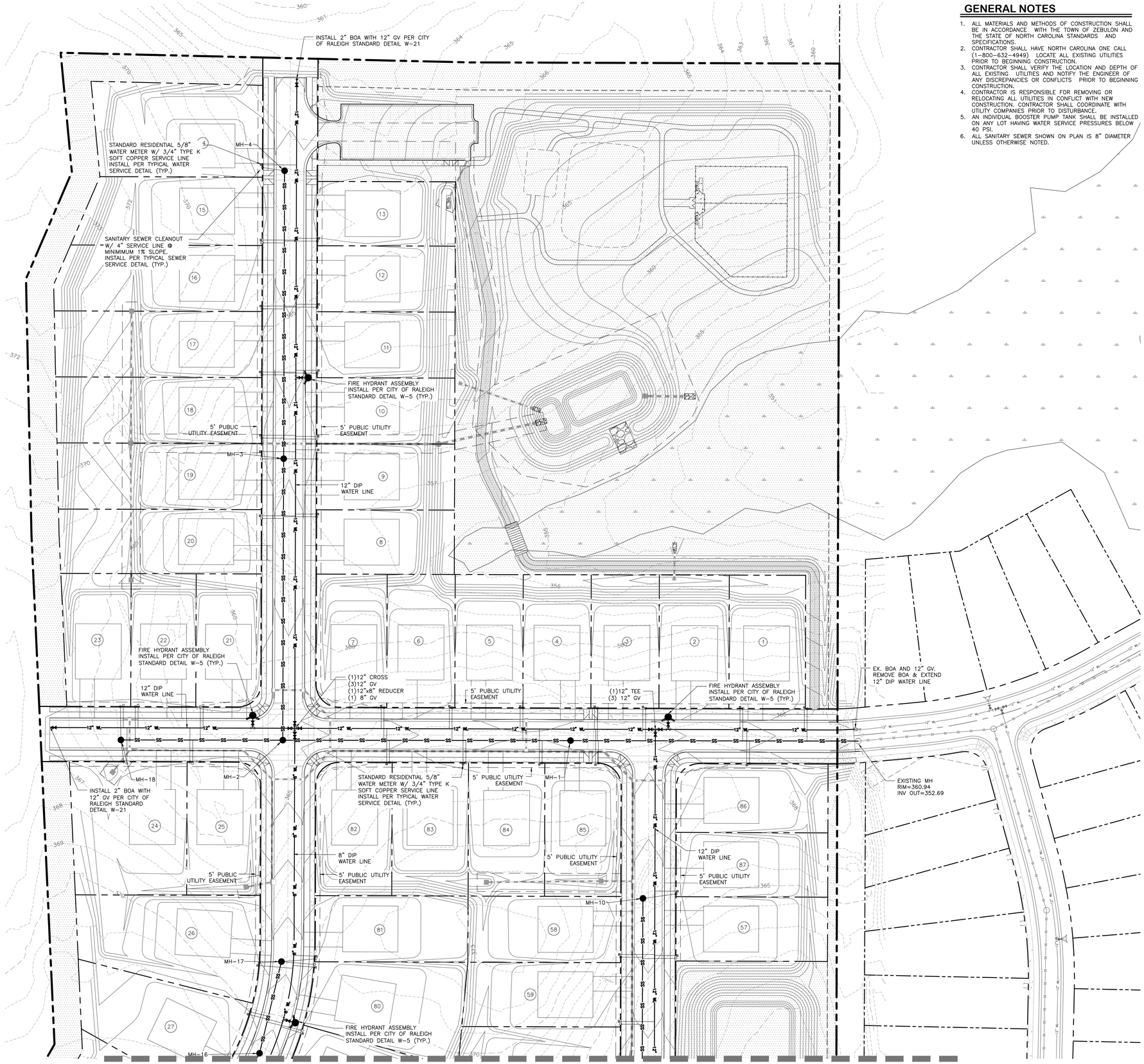
REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

OVERALL UTILITY PLAN

DWG. NO. **SITE 9**



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Public
Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

ATTENTION CONTRACTORS

The *Construction Contractor* responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for *contacting* the *Public Utilities Department* at *(919)996-4540* at least *twenty four hours* prior to beginning any of their construction.

Failure to call for *Inspection, Install a Downstream Plug,* have *Permitted Plans* on the *Jobsite,* or any other *Violation* of *City of Raleigh Standards* will result in a *Fine and Possible Exclusion* from future work in the *City of Raleigh.*

INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

PUBLIC UTILITIES_____

NORTH

0 50 100 150

SCALE IN FEET : 1"=50'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILED UTILITY PAN SHEET 1 OF 2

DWG. NO. **SITE 10**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 10-11 DETAILED UTILITY Feb 14, '24 - 7:29am

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ZEBULON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING OR RELOCATING ALL UTILITIES IN CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO DISTURBANCE.
5. AN INDIVIDUAL BOOSTER PUMP TANK SHALL BE INSTALLED ON ANY LOT HAVING WATER SERVICE PRESSURES BELOW 40 PSI.
6. ALL SANITARY SEWER SHOWN ON PLAN IS 8" DIAMETER UNLESS OTHERWISE NOTED.

CITY OF RALEIGH STANDARD UTILITY NOTES

STANDARD UTILITY NOTES (AS APPLICABLE):

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   - A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25 FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
   - B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18' ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER
   - C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS
   - D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
   - E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS, WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49)
   - F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION
4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT
5. 3.0 MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS
6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE
7. INSTALL 3/4" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE
8. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM
9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0 ABOVE THE NEXT UPSTREAM MANHOLE
10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION
12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION
13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION

Public

Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

Public

Water Distribution / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

ATTENTION CONTRACTORS

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INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

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PUBLIC UTILITIES _____

NORTH

0 50 100 150

SCALE IN FEET: 1"=50'

PLD

PIEDMONT LAND DESIGN, PLLC

8522-204 SIX FORKS ROAD
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NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

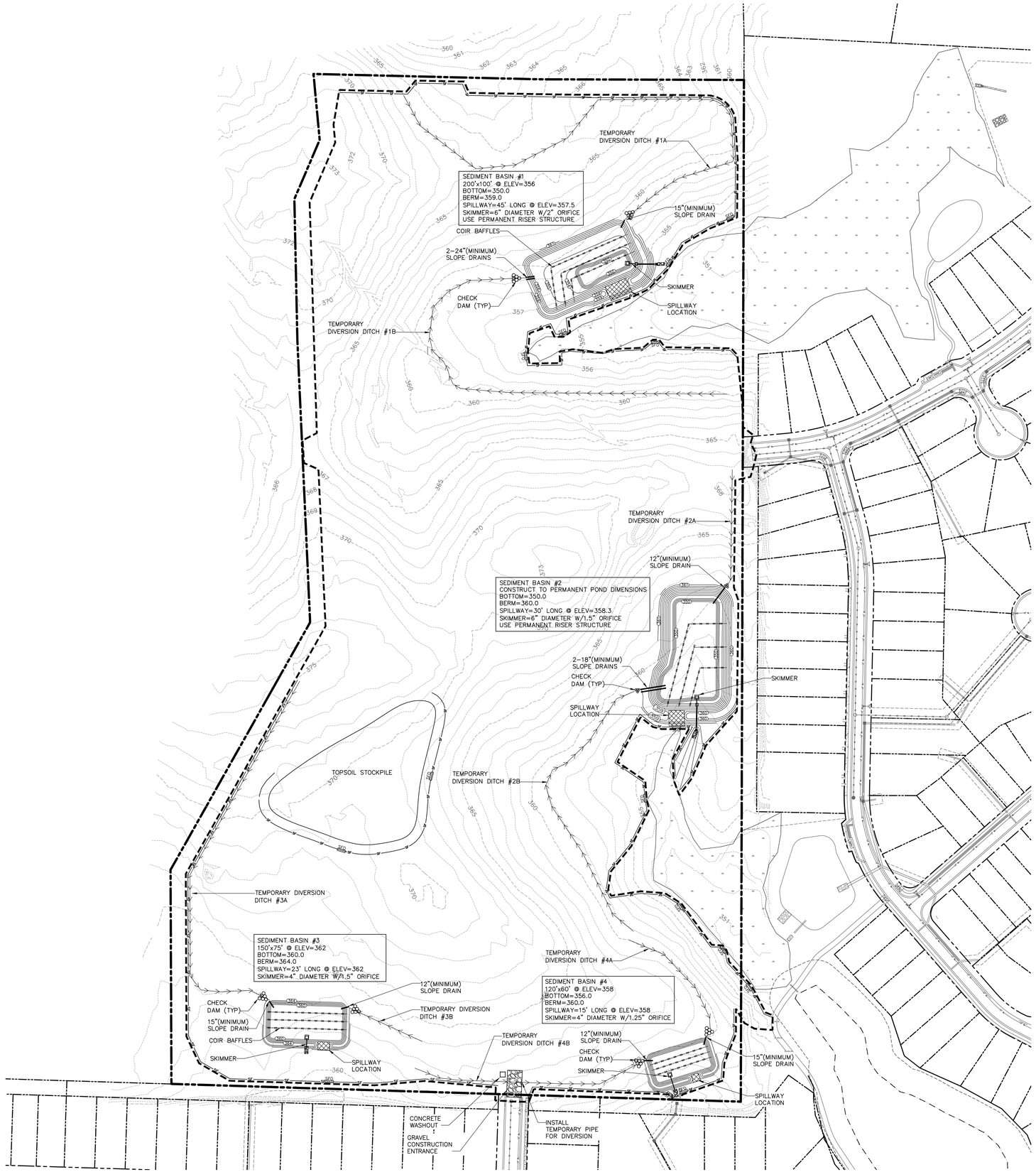
DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILED UTILITY PLAN SHEET 2 OF 2

DWG. NO. **SITE 11**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 10-11 DETAILED UTILITY Feb 14, '24 - 7:29am



Required Wake County Basin Removal Sequence

1. **Schedule a site meeting with the Environmental Consultant to determine if a basin can be removed. Install silt fencing or other temporary erosion control measures as needed prior to removal of the basin.**
2. **Contact NCDEQ – Raleigh Regional Office (919) 791-4200 to determine the Division of Energy, Mineral and Land Resources contact person to receive dewatering notifications. *At least 10 days prior to beginning dewatering activity,* send Email to NCDEQ-DEMLR contact person and copy Environmental Consultant that met you onsite. The email should include: E&SC Jurisdiction: Wake County, Wake County Project: Name, Number, and Location (city/town), Environmental Consultant Name, and address the following: a)Reason for conversion, b)Basin #, c)Dewatering method, and d) all other necessary info from Part II, Section G, Item 4 of the NCG01. (keep email for your NPDES monitoring documentation)**
3. **After receiving positive confirmation from NCDEQ-DEMLR that you may remove the basin OR on ≥ Day 11, whichever is sooner. Remove Basin(s) and associated temporary diversion ditches. If pipes need to be extended, perform this operation at this time. Fine grade area in preparation for seeding.**
4. **Perform seedbed preparation, seed, mulch and anchor any resulting bare areas immediately.**
5. **Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.**
6. **When site is fully stabilized, call Environmental Consultant for approval of removing remaining temporary erosion control measures and advice on when site can be issued a Certificate of Completion. Note: A meeting should also be scheduled with the Environmental Consultant to determine when a basin may be converted for stormwater use. Some municipalities may also require this.**

STABILIZATION NOTES

SLOPE	STABILIZATION
3:1 AND FLATTER	GRASS
3:1 TO 2:1 SLOPE	SLOPE ADAPTIVE PLANTS (SHRUBS AND VINES)
2:1 TO 1.5:1	RIP-RAP (OR AS APPROVED BY GEO-TECH)
STEEPER THAN:1.5 TO 1	RETAINING WALL

- SLOPES OF 2:1 OR STEEPER TO BE STABILIZED IMMEDIATELY WITH EXCELSIOR NETTING OR EQUAL

*EROSION CONTROL MATTING SUFFICIENT FOR STABILIZATION IS REQUIRED FOR ALL SLOPES GREATER THAN 3:1 AND SLOPES GREATER THAN 5' TALL.

1) Ground Stabilization*

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
• Perimeter dikes, swales, ditches and slopes	7 days	None
• High Quality Water (HQW) Zones	7 days	None
• Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
• Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
• All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)

* "Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable." (Section II.B(2)(b))

EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH
- SF — SFO — SILT FENCE / SILT FENCE OUTLET
- XX XX — COIR BAFFLES
- INLET PROTECTION
- CHECK DAM

DISTURBED AREA: 38.0 AC

TEMPORARY DIVERSION DITCH DIMENSIONS

TEMPORARY DIVERSION DITCH #	BOTTOM WIDTH (FT)	DEPTH (FT)	LINING TYPE
1A	2.0	1.0	JUTE MAT
1B	2.0	2.0	JUTE MAT
2A	2.0	1.0	JUTE MAT
2B	2.0	2.0	JUTE MAT
3A	2.0	1.0	JUTE MAT
3B	2.0	1.0	JUTE MAT
4A	2.0	1.0	JUTE MAT
4B	2.0	1.0	JUTE MAT

CONSTRUCTION SCHEDULE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT, XX (919-XXX-XXXX) OBTAIN LAND-DISTURBING PERMIT. THE TOWN OF ZEBULON MAY ALSO REQUIRE A PRE-CONSTRUCTION CONFERENCE.
2. INSTALL GRAVEL CONSTRUCTION PADS, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL XX FOR ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT, TO OBTAIN CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, AND PROTECT INLETS WITH GRAVEL YARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES. *** PROMPT SEEDING, PARTICULARLY WHEN MOVING FROM ONE PHASE TO THE NEXT, WILL BE STRICTLY ENFORCED ***
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL XX FOR INSPECTION BY THE ENVIRONMENTAL CONSULTANT.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED NOW.

NOTE: COORDINATE CONVERSION OF SEDIMENT BASIN TO PERMANENT BMP WITH WAKE COUNTY EROSION CONTROL AND TOWN OF ZEBULON. SEE BASIN REMOVAL SEQUENCE.

9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT, XX TO OBTAIN A CERTIFICATE OF COMPLETION.

SOIL STOCKPILE NOTES

1. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
2. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
3. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
4. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).
5. HEIGHT SHALL NOT EXCEED 35'

GENERAL EROSION CONTROL NOTES

1. ALL SEDIMENT BASINS SHALL HAVE A 15' MAINTENANCE EASEMENT, WHICH IS TO BE IN EFFECT ONLY UNTIL THE BASIN IS REMOVED.
2. SEDIMENT SHALL BE REMOVED FROM BASINS WHEN SEDIMENT STORAGE REACHES 50%. SEDIMENT BASINS ARE TO REMAIN IN PLACE DURING THE HOME CONSTRUCTION PHASE OF THE PROJECT AND ONLY REMOVED WITH APPROVAL FROM THE WAKE COUNTY WATERSHED MANAGER.
3. ALL SEDIMENT BASINS REQUIRE BAFFLES INSTALLED PER DETAILS ON DETAIL SHEET.
4. DIVERSIONS SHALL BE MODIFIED AS NEEDED TO ENSURE SEDIMENT LADEN WATER GOES INTO THE APPROPRIATE BASIN AT ALL TIMES.
5. THE WATERSHED MANAGER MAY DETERMINE THAT FLOCCULANTS WILL BE REQUIRED DURING CONSTRUCTION, IF NECESSARY.

BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.

** BASIN DEWATERING NOTE: BASIN SHALL BE DEWATERED FROM THE TOP OF THE WATER SURFACE OR DIRECTLY INTO A DEWATERING/SILT BAG.

3. PERFORM SEEDBED PREPARATION, SEED, MULCH, AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
4. INSTALL VELOCITY DISSIPATERS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: COORDINATE CONVERSION OF SEDIMENT BASINS TO PERMANENT BMP'S WITH WAKE COUNTY EROSION CONTROL AND TOWN OF ZEBULON

NORTH

0 100 200 300

SCALE IN FEET : 1"=100'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
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ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

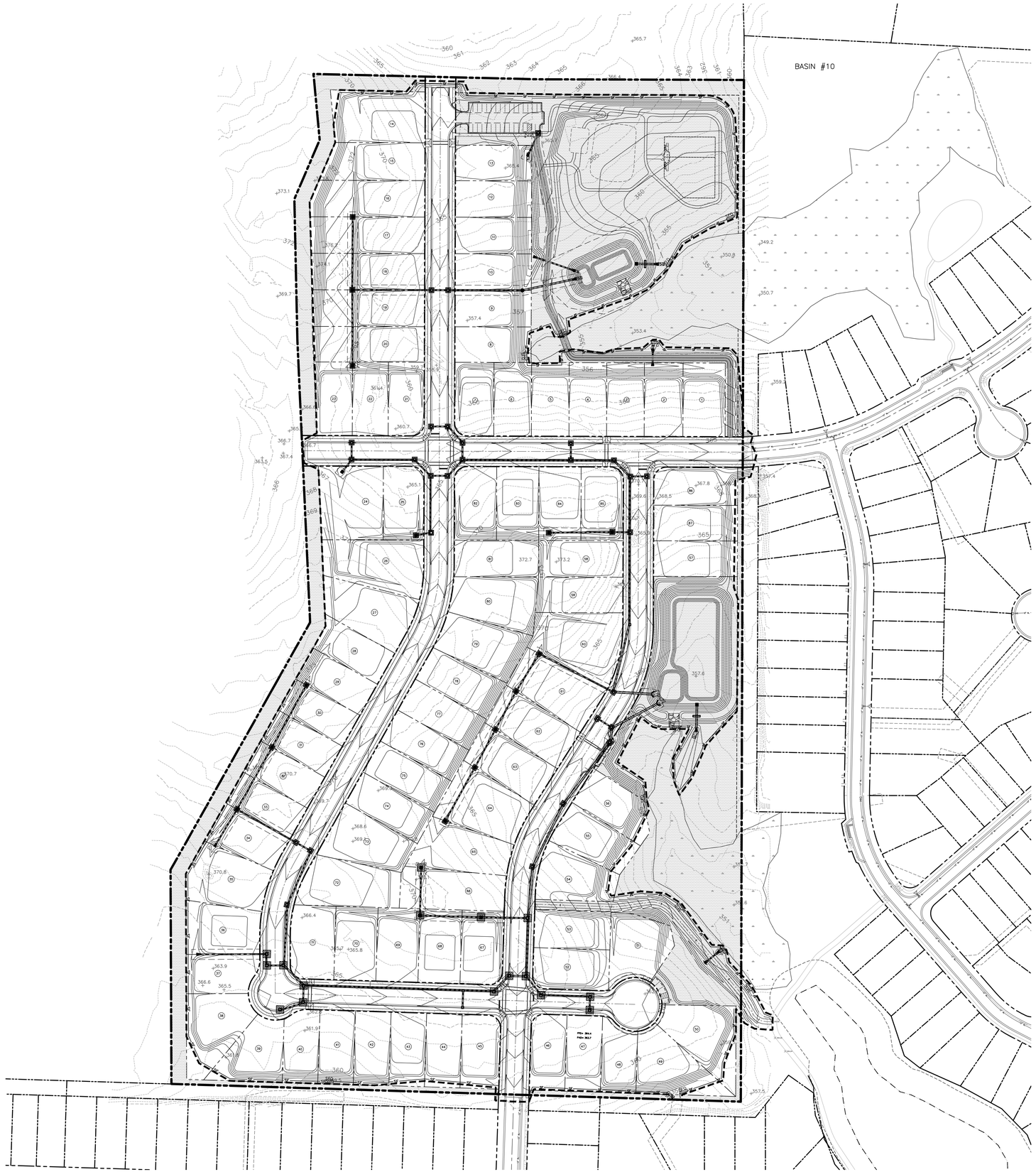
DRAWN BY: **JEB**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

STAGE ONE EROSION CONTROL PLAN

DWG. NO. **SITE 12**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg – 12-13 EC Feb 14, '24 – 7:30am



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6. **When site is fully stabilized, call Environmental Consultant for approval of removing remaining temporary erosion control measures and advice on when site can be issued a Certificate of Completion. Note: A meeting should also be scheduled with the Environmental Consultant to determine when a basin may be converted for stormwater use. Some municipalities may also require this.**

STABILIZATION NOTES

SLOPE	STABILIZATION
3:1 AND FLATTER	GRASS
3:1 TO 2:1 SLOPE	SLOPE ADAPTIVE PLANTS (SHRUBS AND VINES)
2:1 TO 1.5:1	RIP-RAP (OR AS APPROVED BY GEO-TECH)
STEEPER THAN:1.5 TO 1	RETAINING WALL

- SLOPES OF 2:1 OR STEEPER TO BE STABILIZED IMMEDIATELY WITH EXCELSIOR NETTING OR EQUAL

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1) Ground Stabilization*

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EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH
- SF — SILT FENCE
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- XX XX — COIR BAFFLES
- INLET PROTECTION
- CHECK DAM

DISTURBED AREA:
38.0 AC

CONSTRUCTION SCHEDULE

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT, XX (919-XXX-XXXX) OBTAIN LAND-DISTURBING PERMIT. THE TOWN OF ZEBULON MAY ALSO REQUIRE A PRE-CONSTRUCTION CONFERENCE.
2. INSTALL GRAVEL CONSTRUCTION PADS, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL XX FOR ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT, TO OBTAIN CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, AND PROTECT INLETS WITH GRAVEL YARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES. *** PROMPT SEEDING, PARTICULARLY WHEN MOVING FROM ONE PHASE TO THE NEXT, WILL BE STRICTLY ENFORCED ***
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8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED NOW.

NOTE: COORDINATE CONVERSION OF SEDIMENT BASIN TO PERMANENT BMP WITH WAKE COUNTY EROSION CONTROL AND TOWN OF ZEBULON. SEE BASIN REMOVAL SEQUENCE.

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SOIL STOCKPILE NOTES

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5. HEIGHT SHALL NOT EXCEED 35'

GENERAL EROSION CONTROL NOTES

1. ALL SEDIMENT BASINS SHALL HAVE A 15' MAINTENANCE EASEMENT, WHICH IS TO BE IN EFFECT ONLY UNTIL THE BASIN IS REMOVED.
2. SEDIMENT SHALL BE REMOVED FROM BASINS WHEN SEDIMENT STORAGE REACHES 50%. SEDIMENT BASINS ARE TO REMAIN IN PLACE DURING THE HOME CONSTRUCTION PHASE OF THE PROJECT AND ONLY REMOVED WITH APPROVAL FROM THE WAKE COUNTY WATERSHED MANAGER.
3. ALL SEDIMENT BASINS REQUIRE BAFFLES INSTALLED PER DETAILS ON DETAIL SHEET.
4. DIVERSIONS SHALL BE MODIFIED AS NEEDED TO ENSURE SEDIMENT LADEN WATER GOES INTO THE APPROPRIATE BASIN AT ALL TIMES.
5. THE WATERSHED MANAGER MAY DETERMINE THAT FLOCCULANTS WILL BE REQUIRED DURING CONSTRUCTION, IF NECESSARY.

BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.

** BASIN DEWATERING NOTE: BASIN SHALL BE DEWATERED FROM THE TOP OF THE WATER SURFACE OR DIRECTLY INTO A DEWATERING/SILT BAG.

3. PERFORM SEEDBED PREPARATION, SEED, MULCH, AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
4. INSTALL VELOCITY DISSIPATERS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: COORDINATE CONVERSION OF SEDIMENT BASINS TO PERMANENT BMP'S WITH WAKE COUNTY EROSION CONTROL AND TOWN OF ZEBULON

ENERGY DISSIPATER SCHEDULE

DOWNSTREAM STRUCTURE	SIZE (IN)	VELOCITY (FPS)	RIP RAP TYPE	L X W X THK
1	24	5.38	CLASS B (D50=6")	12' X 6' X 18"
8	15	5.70	CLASS B (D50=6")	8' X 4' X 18"
10	15	4.15	CLASS B (D50=6")	8' X 4' X 18"
12	15	4.13	CLASS B (D50=6")	8' X 4' X 18"
14	24	6.13	CLASS B (D50=6")	12' X 6' X 18"
15	30	6.80	CLASS B (D50=6")	15' X 8' X 18"
44	30	5.92	CLASS B (D50=6")	15' X 8' X 18"
78	15	8.90	CLASS B (D50=6")	8' X 4' X 18"
80	30	6.31	CLASS B (D50=6")	15' X 8' X 18"

NORTH

0 50 100 150

SCALE IN FEET: 1"=100'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

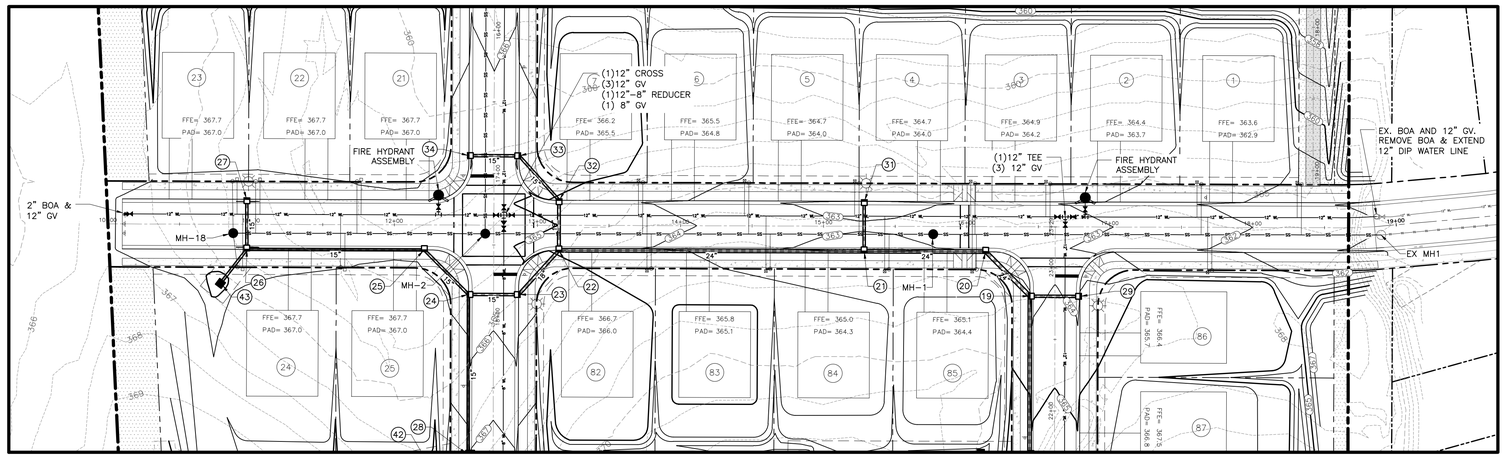
DRAWN BY: **JET**
CHECKED BY: **MLS**

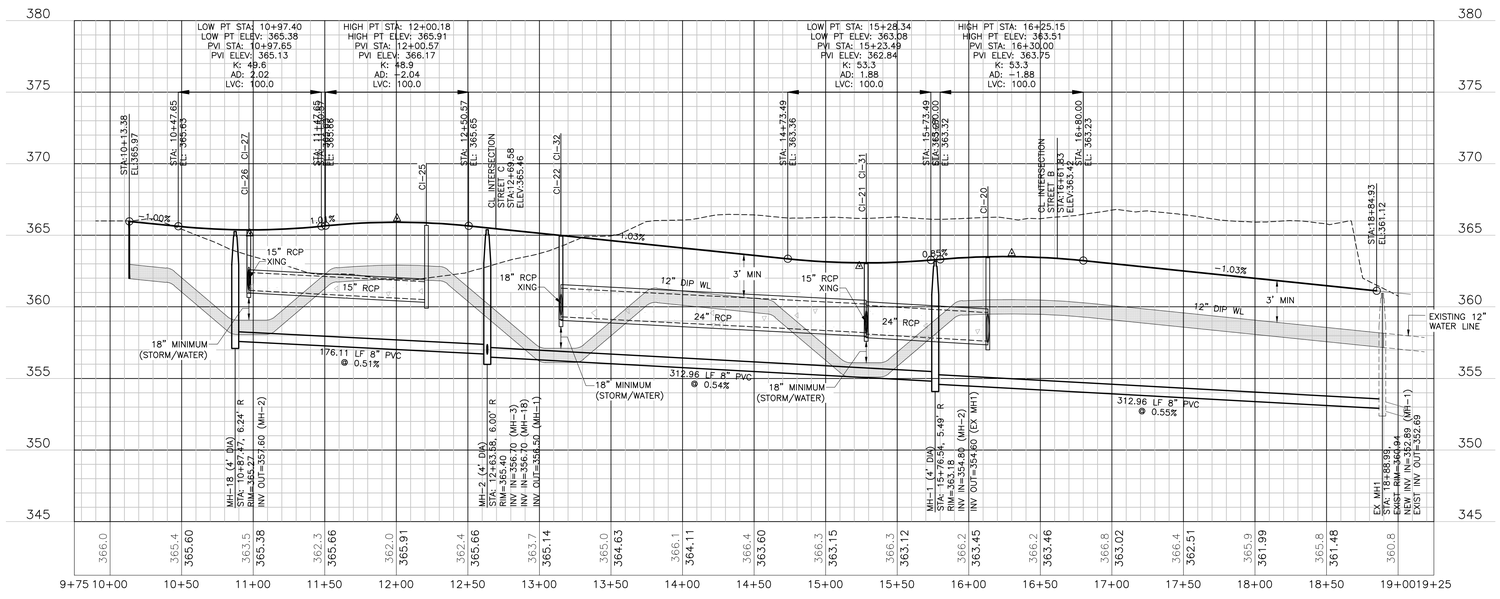
PROJECT: **FDCWP9**

STAGE TWO EROSION CONTROL PLAN

DWG. NO. **SITE 13**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 12-13 EC Feb 14, '24 - 7:31am





Public

Water Distribution / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

Public

Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

ATTENTION CONTRACTORS

The *Construction Contractor* responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for *contacting* the *Public Utilities Department* at *(919)996-4540* at least *twenty four hours* prior to beginning any of their construction.

Failure to call for *Inspection, Install a Downstream Plug,* have *Permitted Plans* on the *Jobsite*, or any other *Violation* of *City of Raleigh Standards* will result in a *Fine and Possible Exclusion* from future work in the *City of Raleigh.*

NORTH

0 50 100 150

SCALE IN FEET: 1"=50'

PLD

PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

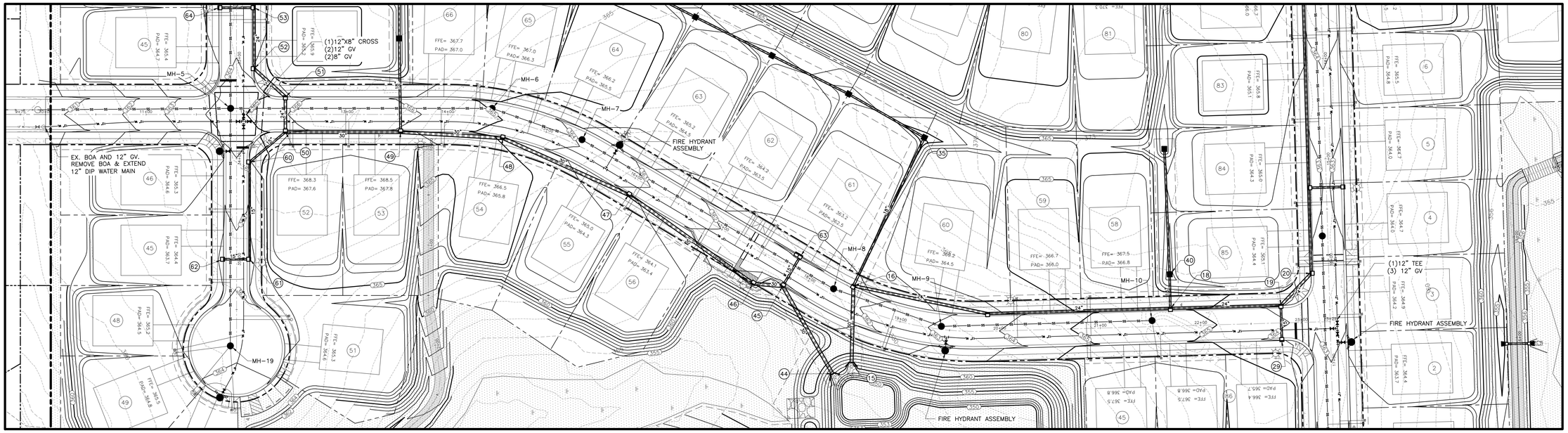
DRAWN BY: **JET**
CHECKED BY: **MLS**

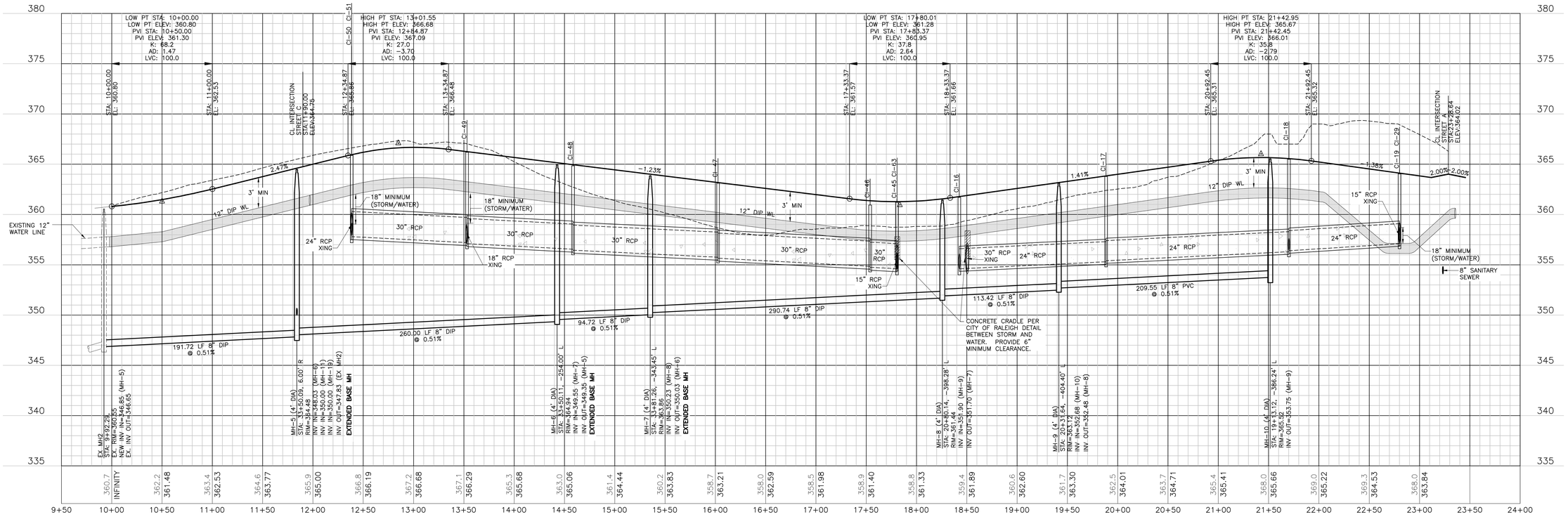
PROJECT: **FDCWP9**

STREET A PLAN & PROFILE

DWG. NO. **SITE 14**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 14-17 PROFILE Feb 14, '24 - 9:55am





Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

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City of Raleigh
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NORTH

0 50 100 150

SCALE IN FEET: 1"=50'

PLD

PIEDMONT LAND DESIGN, PLLC
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RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
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NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

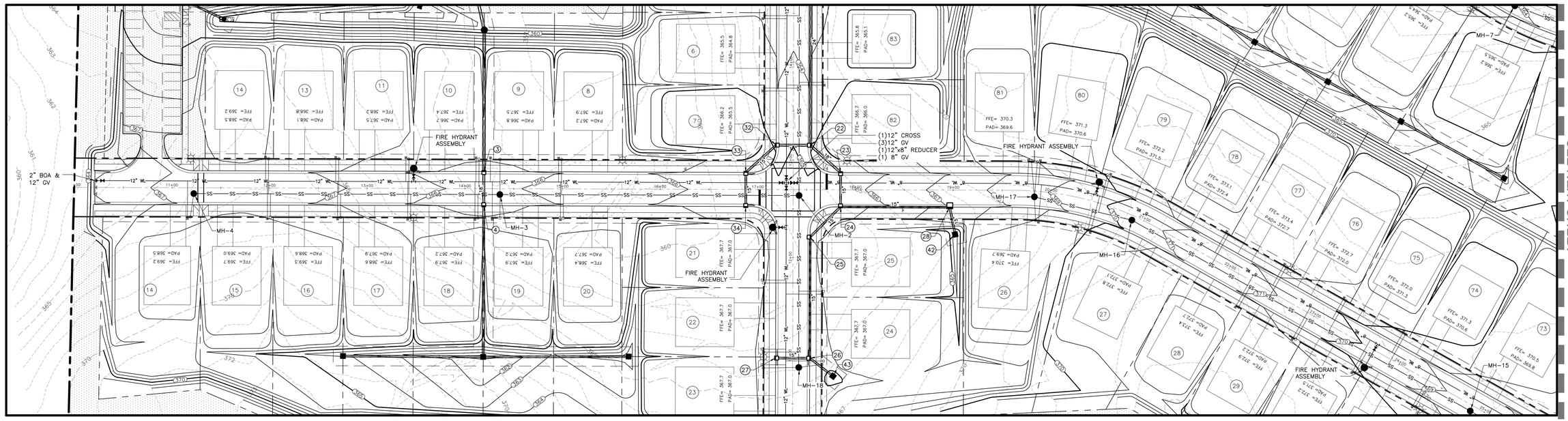
DRAWN BY: **JET**
CHECKED BY: **MLS**

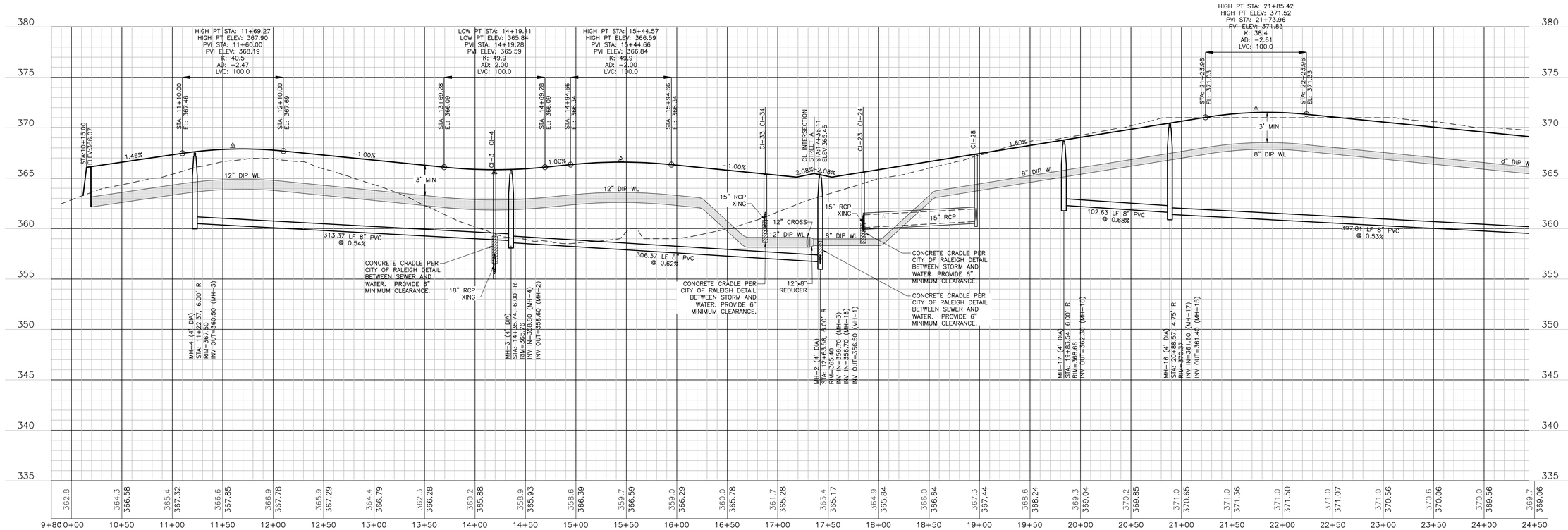
PROJECT: **FDCWP9**

STREET B
PLAN & PROFILE

DWG. NO. **SITE 15.0**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 14-17 PROFILE Feb 14, '24 - 9:59am





Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

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NORTH

0 50 100 150
SCALE IN FEET: 1"=50'

PLD
PIEDMONT LAND DESIGN, PLLC
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RALEIGH, NORTH CAROLINA 27615
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NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

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CHECKED BY: **MLS**

PROJECT: **FDCWP9**

STREET C
PLAN & PROFILE
SHEET 1 OF 2

DWG. NO. **SITE 16**

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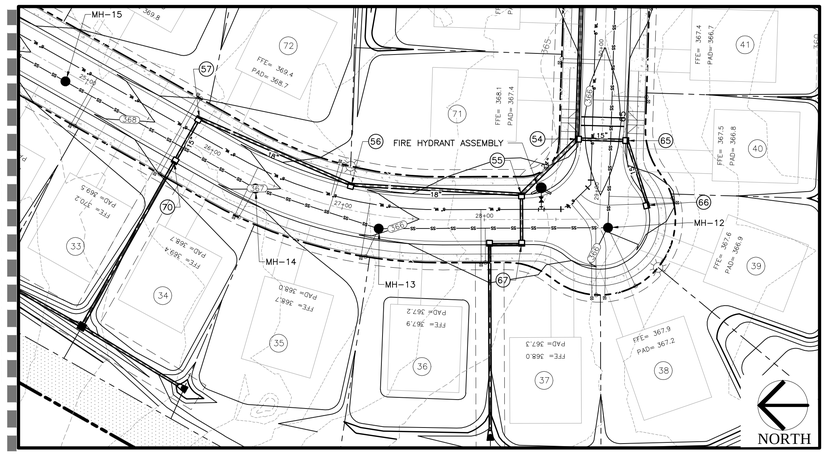
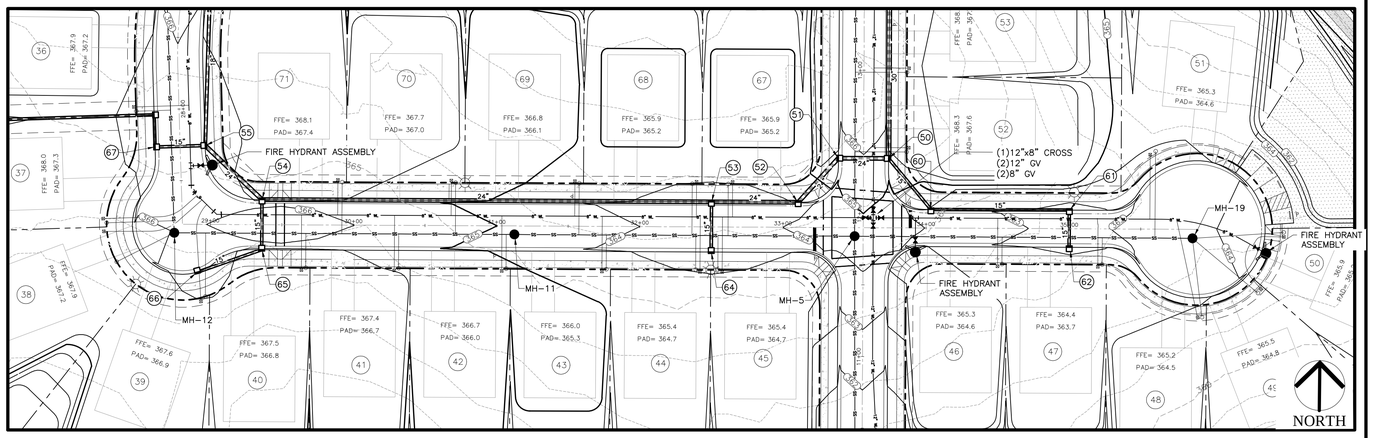
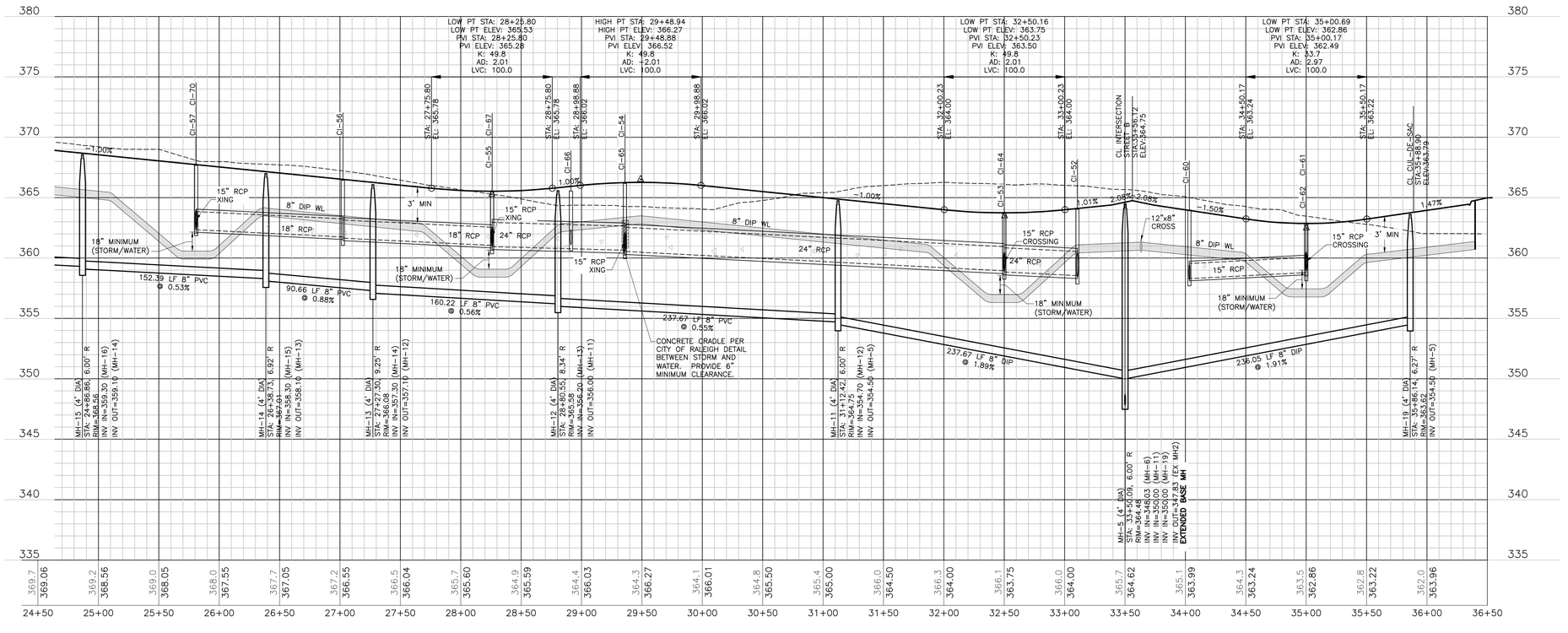


SEE PREVIOUS SHEET





Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

Public
Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Authorization to Construct _____

Date _____

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0 50 100 150
SCALE IN FEET: 1"=50'

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

STREET C
PLAN AND PROFILE
SHEET 2 OF 2

DWG. NO. **SITE 17**

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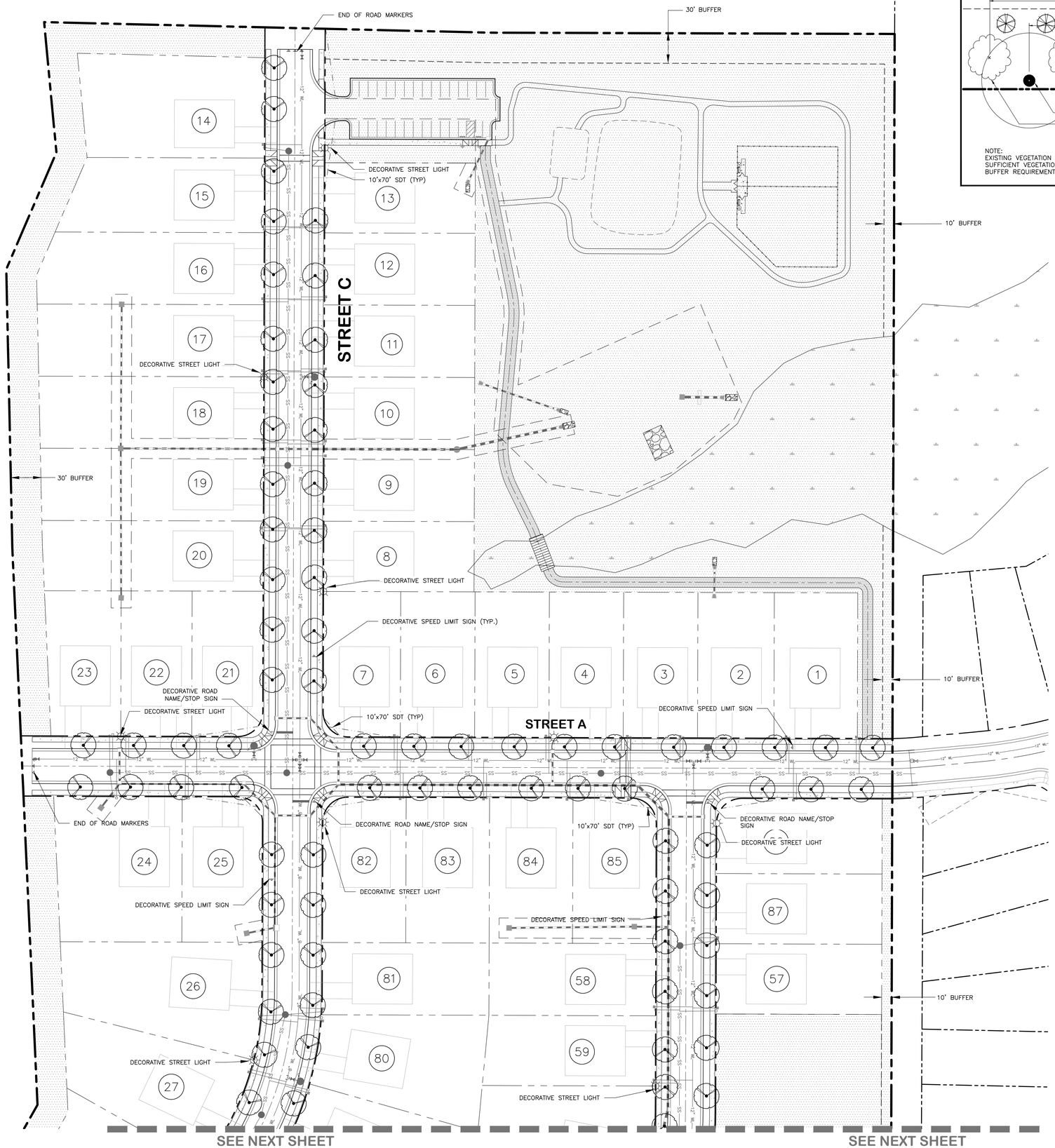
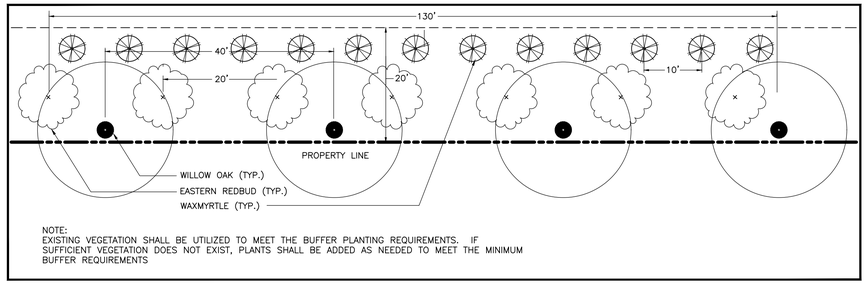
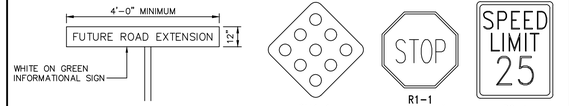




NOTE:
EXISTING VEGETATION SHALL BE UTILIZED TO MEET THE BUFFER PLANTING REQUIREMENTS. IF SUFFICIENT VEGETATION DOES NOT EXIST, PLANTS SHALL BE ADDED AS NEEDED TO MEET THE MINIMUM BUFFER REQUIREMENTS

10' AND 30' PERIMETER BUFFER DETAIL

SIGNAGE LEGEND



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QUAN.	CAL.	HT.	ROOT	REMARKS
STREET TREES							
QN	Quercus nuttallii	Nuttall Oak	57	2 1/2"	10-12'	B&B	STREET TREE
QS	Quercus shumardii	Shumard Oak	57	2 1/2"	10-12'	B&B	STREET TREE
UP	Ulmus parvifolia 'Emer II'	Chinese Lacebark Elm	57	2 1/2"	10-12'	B&B	STREET TREE

SYMBOLS: B&B = BALLED & BURLAPPED

LIGHTING NOTES

FIXTURE TYPE: LED MITCHELL SERIES – 75 WATT (WITHOUT BANDING OR RIBBON)
8.19 FIXTURE, 2.71 POLE (16' FIBERGLASS)
TOTAL # OF FIXTURES = 19

SIGNAGE NOTES

1. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.
2. ALL SIGNS SHALL HAVE DECORATIVE POST PER DETAIL ON DETAIL SHEET.

NORTH

0 50 100 150
SCALE IN FEET

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER
02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

LANDSCAPE AND LIGHTING SHEET 1 OF 2

DWG. NO. **SITE 18**

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg – 18-19- LS-LIGHT-STRIPING Feb 14, '24 – 7:35am

SEE PREVIOUS SHEET

SEE PREVIOUS SHEET

STREET C

STREET B

STREET C

DECORATIVE STREET LIGHT

DECORATIVE SPEED LIMIT SIGN

DECORATIVE ROAD NAME/STOP SIGN

10'x70' SDT (TYP)

10' BUFFER

30' BUFFER

NORTH

0 50 100 150

SCALE IN FEET

F:\Projects\FDCWP9\Drawings\Site\FDCWP9_Base.dwg - 18-19- LS-LIGHT-STRIPING Feb 14, '24 - 7:35am

PLD

PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
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ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

LANDSCAPE AND LIGHTING PLAN SHEET 2 OF 2

DWG. NO. **SITE 19**

STRUCTURE SCHEDULE

STRUCTURE	RIM	STRUCTURE TYPE	INV IN	INV OUT
SCM #2 RISER	N/A	YI		353.90 (30")
SCM #1 RISER	N/A	YI		353.90 (24")
1	N/A	FES	354.00 (24")	
2	359.00	JB	354.70 (24")	354.60 (24")
3	365.78	CI	355.60 (18")	355.50 (24")
4	365.78	CI	355.90 (18")	355.80 (18")
5	360.05	YI	356.80 (15") 356.80 (15")	356.70 (18")
6	361.00	YI		357.60 (15")
7	363.00	YI		357.60 (15")
8	N/A	FES	354.00 (15")	
9	N/A	FES		355.00 (15")
10	N/A	FES	360.00 (15")	
11	365.00	CI		360.30 (15")
12	N/A	FES	353.80 (15")	
13	N/A	FES		354.00 (15")
14	N/A	FES	353.60 (24")	
15	N/A	HW	354.00 (30")	
16	361.70	CI	354.60 (24") 354.60 (18")	354.50 (30")
17	363.78	CI	355.40 (24")	355.30 (24")
18	365.49	CI	356.40 (24") 356.40 (15")	356.30 (24")
19	364.05	CI	357.20 (24") 357.20 (15")	357.10 (24")
20	363.43	CI	357.60 (24")	357.50 (24")
21	363.01	CI	358.20 (24") 358.20 (15")	358.10 (24")
22	364.93	CI	359.40 (18") 359.40 (18")	359.30 (24")
23	365.53	CI	359.80 (15")	359.70 (18")
24	365.53	CI	360.10 (15") 360.10 (15")	360.00 (15")
25	365.70	CI	360.50 (15")	360.40 (15")
26	365.32	CI	361.25 (15") 361.20 (15")	361.15 (15")
27	365.32	CI		361.45 (15")
28	367.32	CI	360.80 (15")	360.70 (15")
29	364.05	CI		357.40 (15")
31	363.01	CI		358.40 (15")
32	364.93	CI	359.70 (15")	359.60 (18")
33	365.34	CI	360.10 (15")	360.00 (15")
34	365.34	CI		360.30 (15")
35	359.60	YI	355.60 (15")	355.50 (18")
36	360.00	YI	356.20 (15")	356.10 (15")
37	361.00	YI	356.80 (15")	356.70 (15")
38	362.00	YI	358.00 (15")	357.90 (15")
39	363.00	YI		359.00 (15")
40	361.00	YI	356.70 (15")	356.60 (15")
41	360.00	YI		357.40 (15")
42	365.00	YI		361.00 (15")
43	364.00	YI		361.50 (15")
44	N/A	HW	354.00 (30")	
45	361.22	CI	354.70 (15") 354.60 (30")	354.50 (30")
46	360.94	CI	354.85 (30")	354.75 (30")
47	363.12	CI	355.75 (30")	355.65 (30")
48	364.84	CI	356.55 (30")	356.45 (30")
49	366.19	CI	357.20 (30") 357.20 (18")	357.10 (30")
50	365.88	CI	357.90 (15") 357.90 (24")	357.80 (30")
51	365.88	CI	358.20 (24")	358.10 (24")
52	364.04	CI	358.55 (24")	358.45 (24")
53	363.69	CI	358.95 (24") 358.95 (15")	358.85 (24")
54	366.18	CI	360.65 (24") 360.65 (15")	360.55 (24")

STRUCTURE SCHEDULE

STRUCTURE	RIM	STRUCTURE TYPE	INV IN	INV OUT
55	365.47	CI	361.05 (18") 361.05 (15")	360.95 (24")
56	366.44	CI	361.75 (18")	361.65 (18")
57	367.68	CI	362.45 (15")	362.35 (18")
60	363.97	CI	358.30 (15")	358.20 (15")
61	362.89	CI	359.00 (15")	358.80 (15")
62	362.89	CI		359.20 (15")
63	361.22	CI		354.90 (15")
64 *	363.69	CI		359.20 (15")
65	366.18	CI	360.85 (15")	360.85 (15")
66	365.55	CI		361.10 (15")
67	365.47	CI	361.35 (15")	361.25 (15")
68	365.53	CI	361.60 (15")	361.50 (15")
69	N/A	FES		363.00 (15")
70	367.68	CI	362.75 (15")	362.65 (15")
71	365.80	YI	363.55 (15") 363.55 (15")	363.45 (15")
72	367.00	YI	364.35 (15")	364.25 (15")
73	368.50	YI		365.05 (15")
74	N/A	FES		364.00 (15")
75	362.00	YI	357.85 (18")	357.75 (18")
76	362.77	YI	358.60 (15")	358.50 (18")
77	363.27	YI		359.10 (15")
78	N/A	FES	352.00 (15")	
79	N/A	FES		353.00 (15")
80	N/A	FES	353.60 (30")	

* CI-64 IS A DOUBLE CURB INLET

PIPE SCHEDULE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	SIZE (IN)	LENGTH (FT)	SLOPE	MATERIAL
SCM #1 RISER	14	353.90	353.60	24	42	0.72%	CLASS III RCP
SCM #2 RISER	80	353.90	353.60	30	53	0.57%	CLASS III RCP
2	1	354.60	354.00	24	108	0.56%	CLASS III RCP
3	2	355.50	354.70	24	145	0.55%	CLASS III RCP
4	3	355.80	355.60	18	35	0.57%	CLASS III RCP
5	4	356.70	355.90	18	155	0.52%	CLASS III RCP
6	5	357.60	356.80	15	149	0.54%	CLASS III RCP
7	5	357.60	356.80	15	144	0.56%	CLASS III RCP
9	8	355.00	354.00	15	86	1.17%	CLASS III RCP
11	10	360.30	360.00	15	48	0.62%	CLASS III RCP
13	12	354.00	353.80	15	33	0.61%	CLASS III RCP
16	15	354.50	354.00	30	76	0.66%	CLASS III RCP
17	16	355.30	354.60	24	136	0.51%	CLASS III RCP
18	17	356.30	355.40	24	182	0.50%	CLASS III RCP
19	18	357.10	356.40	24	110	0.64%	CLASS III RCP
20	19	357.50	357.20	24	44	0.68%	CLASS III RCP
21	20	358.10	357.60	24	85	0.59%	CLASS III RCP
22	21	359.30	358.20	24	213	0.52%	CLASS III RCP
23	22	359.70	359.40	18	42	0.72%	CLASS III RCP
24	23	360.00	359.80	15	35	0.57%	CLASS III RCP
25	24	360.40	360.10	15	44	0.68%	CLASS III RCP
26	25	361.15	360.50	15	124	0.52%	CLASS III RCP
27	26	361.45	361.25	15	35	0.57%	CLASS III RCP
28	24	360.70	360.10	15	112	0.54%	CLASS III RCP
29	19	357.40	357.20	15	35	0.57%	CLASS III RCP
31	21	358.40	358.20	15	35	0.57%	CLASS III RCP
32	22	359.60	359.40	18	35	0.57%	CLASS III RCP
33	32	360.00	359.70	15	42	0.72%	CLASS III RCP
34	33	360.30	360.10	15	35	0.57%	CLASS III RCP
35	16	355.50	354.60	18	163	0.55%	CLASS III RCP
36	35	356.10	355.60	15	87	0.58%	CLASS III RCP
37	36	356.70	356.20	15	85	0.59%	CLASS III RCP
38	37	357.90	356.80	15	85	1.29%	CLASS III RCP
39	38	359.00	358.00	15	121	0.83%	CLASS III RCP
40	18	356.60	356.40	15	34	0.59%	CLASS III RCP
41	40	357.40	356.70	15	125	0.56%	CLASS III RCP
42	28	361.00	360.80	15	28	0.70%	CLASS III RCP
43	26	361.50	361.20	15	30	1.00%	CLASS III RCP
45	44	354.50	354.00	30	100	0.50%	CLASS III RCP
46	45	354.75	354.60	30	30	0.51%	CLASS III RCP
47	46	355.65	354.85	30	152	0.53%	CLASS III RCP
48	47	356.45	355.75	30	138	0.51%	CLASS III RCP
49	48	357.10	356.55	30	102	0.54%	CLASS III RCP
50	49	357.80	357.20	30	115	0.52%	CLASS III RCP
51	50	358.10	357.90	24	35	0.57%	CLASS III RCP
52	51	358.45	358.20	24	42	0.60%	CLASS III RCP
53	52	358.85	358.55	24	61	0.50%	CLASS III RCP
54	53	360.55	358.95	24	314	0.51%	CLASS III RCP
55	54	360.95	360.65	24	55	0.55%	CLASS III RCP
56	55	361.65	361.05	18	119	0.50%	CLASS III RCP
57	56	362.35	361.75	18	116	0.52%	CLASS III RCP
60	50	358.20	357.90	15	46	0.65%	CLASS III RCP
61	60	358.80	358.30	15	97	0.52%	CLASS III RCP
62	61	359.20	359.00	15	26	0.77%	CLASS III RCP
63	45	354.90	354.70	15	35	0.57%	CLASS III RCP
64	53	359.20	358.95	15	35	0.71%	CLASS III RCP
65	54	360.85	360.65	15	35	0.57%	CLASS III RCP
66	65	361.10	360.85	15	47	0.53%	CLASS III RCP
67	55	361.25	361.05	15	35	0.57%	CLASS III RCP
68	67	361.50	361.35	15	22	0.67%	CLASS III RCP
69	68	363.00	361.60	15	137	1.02%	CLASS III RCP
70	57	362.65	362.45	15	35	0.57%	CLASS III RCP
71	70	363.45	362.75	15	132	0.53%	CLASS III RCP
72	71	364.25	363.55	15	140	0.50%	CLASS III RCP
73	72	365.05	364.35	15	140	0.50%	CLASS III RCP
74	71	364.00	363.55	15	85	0.53%	CLASS III RCP
75	49	357.75	357.20	18	93	0.59%	CLASS III RCP
76	75	358.50	357.85	18	120	0.54%	CLASS III RCP
77	76	359.10	358.60	15	94	0.53%	CLASS III RCP
79	78	353.00	352.00	15	35	2.84%	CLASS III RCP

ENERGY DISSIPATER SCHEDULE

DOWNSTREAM STRUCTURE	SIZE (IN)	VELOCITY (FPS)	RIP RAP TYPE	L X W X THK
1	24	5.38	CLASS B (D50=6")	12' X 6' X 18"
8	15	5.70	CLASS B (D50=6")	8' X 4' X 18"
10	15	4.15	CLASS B (D50=6")	8' X 4' X 18"
12	15	4.13	CLASS B (D50=6")	8' X 4' X 18"
14	24	6.13	CLASS B (D50=6")	12' X 6' X 18"
15	30	6.80	CLASS B (D50=6")	15' X 8' X 18"
44	30	5.92	CLASS B (D50=6")	15' X 8' X 18"
78	15	8.90	CLASS B (D50=6")	8' X 4' X 18"
80	30	6.31	CLASS B (D50=6")	15' X 8' X 18"

STRUCTURE TYPE	NOTES
CI	STD. CURB INLET PER ZEBULON DETAIL #33, SHEETS 1, 2 AND 3 OF 4 *FOR PIPES TOO LARGE TO BE ACCOMMODATED BY ZEBULON DETAIL #33, USE CONCRETE CATCH BASIN PER NCDOT STD DETAIL 840.02.
YI	YARD INLET PER ZEBULON DETAIL #39
FES	FLARED END SECTION PER ZEBULON DETAIL #35
HW	CONCRETE HEAD WALL PER NCDOT STANDARD DETAIL

NOTES:
RIM ELEVATION IS AT TOP OF CURB FOR CB'S, AND TOP OF GRATE FOR YI'S

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **14 FEB 2024**

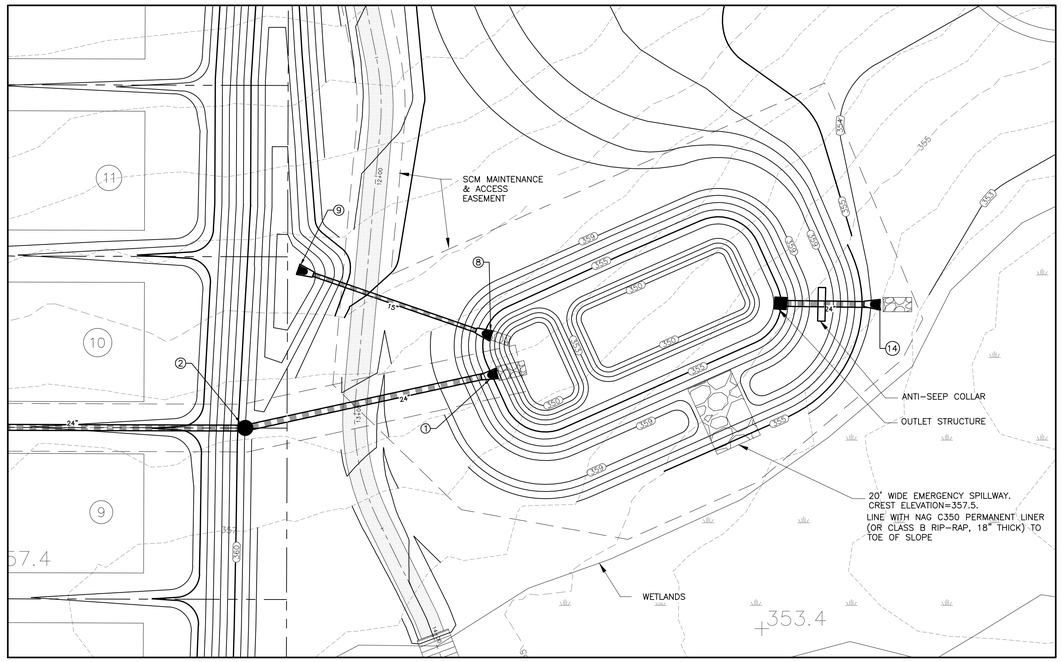
REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

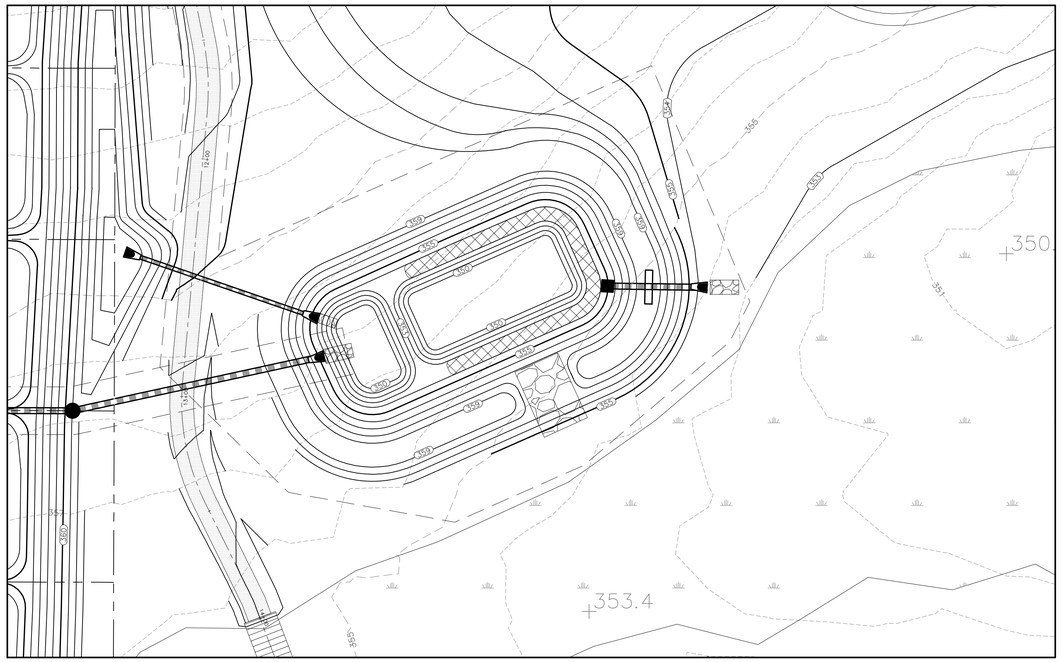
PROJECT: **FDCWP9**

SCHEDULES

DWG. NO. **SITE 20**



SCM PLAN



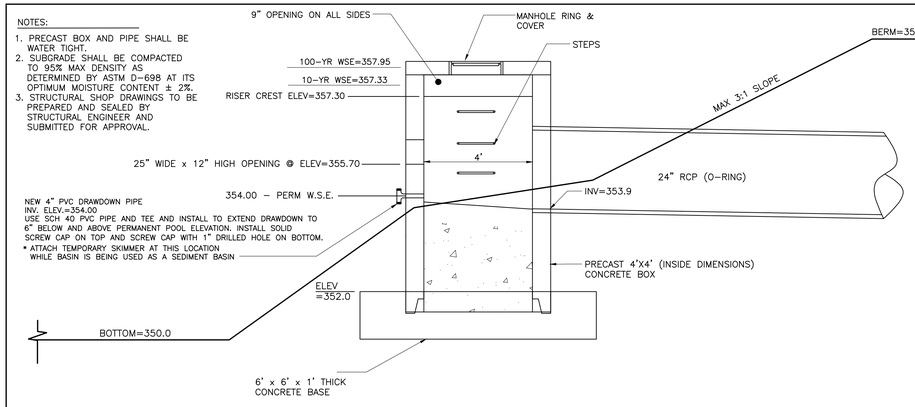
SCM PLANTING PLAN

SCM PLANT SCHEDULE

REQUIRED PLANTS BASED ON 1,060 S.F. = 50 PLANTS / 200 S.F. (1,060 S.F.) = 265 PLANTS

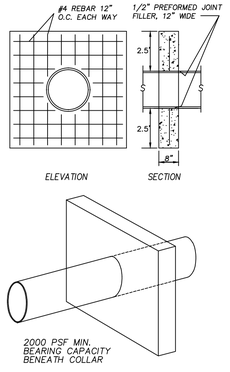
PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SPACING
	88	ASCLEPIAS INCARNATA	SWAMP MILKWEED	2" PLUG	2' O.C.
	88	CAREX TENERA	QUILL SEDGE	2" PLUG	2' O.C.
	89	CHELONE GLABRA	WHITE TURTLEHEAD	2" PLUG	2' O.C.

NOTES:
1. PRECAST BOX AND PIPE SHALL BE WATER TIGHT.
2. SUBGRADE SHALL BE COMPACTED TO 95% MAX DENSITY AS DETERMINED BY ASTM D-698 AT ITS OPTIMUM MOISTURE CONTENT ± 2%.
3. STRUCTURAL SHOP DRAWINGS TO BE PREPARED AND SEALED BY STRUCTURAL ENGINEER AND SUBMITTED FOR APPROVAL.

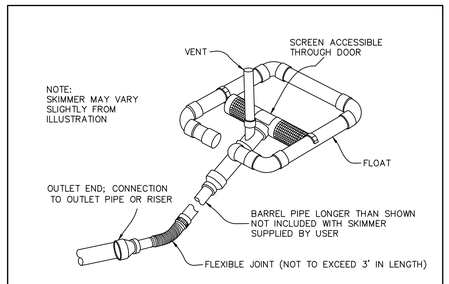


SCM OUTLET STRUCTURE

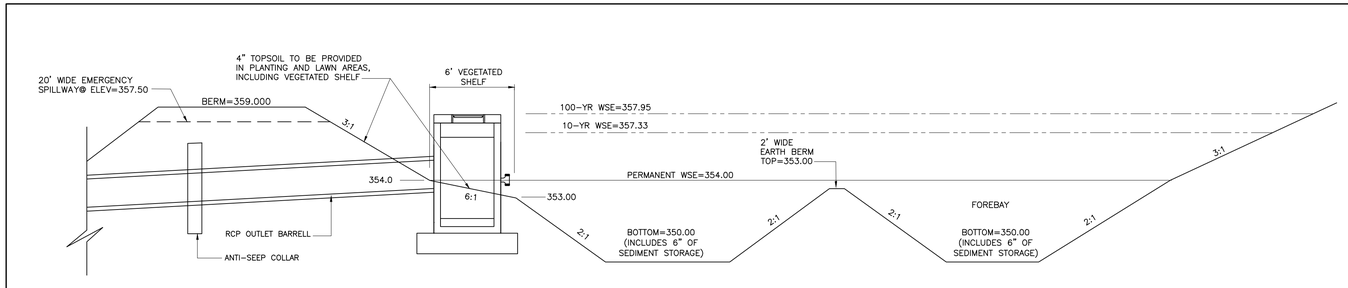
NOT TO SCALE



TYPICAL ANTI-SEEP COLLAR



TEMPORARY SEDIMENT DEVICE DEWATERING SKIMMER DETAIL



SCM CROSS SECTION

NOT TO SCALE

NORTH

0 30 60 90

SCALE IN FEET

PLD
PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02--14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **14 FEB 2024**

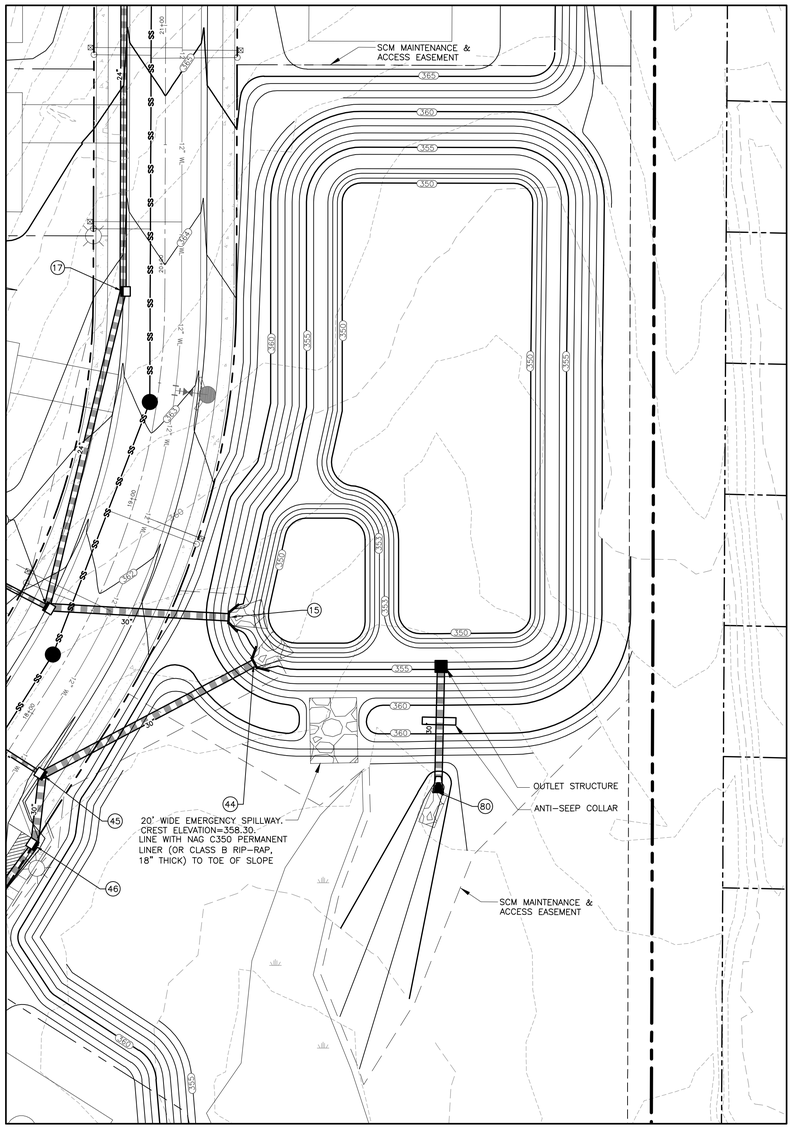
REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

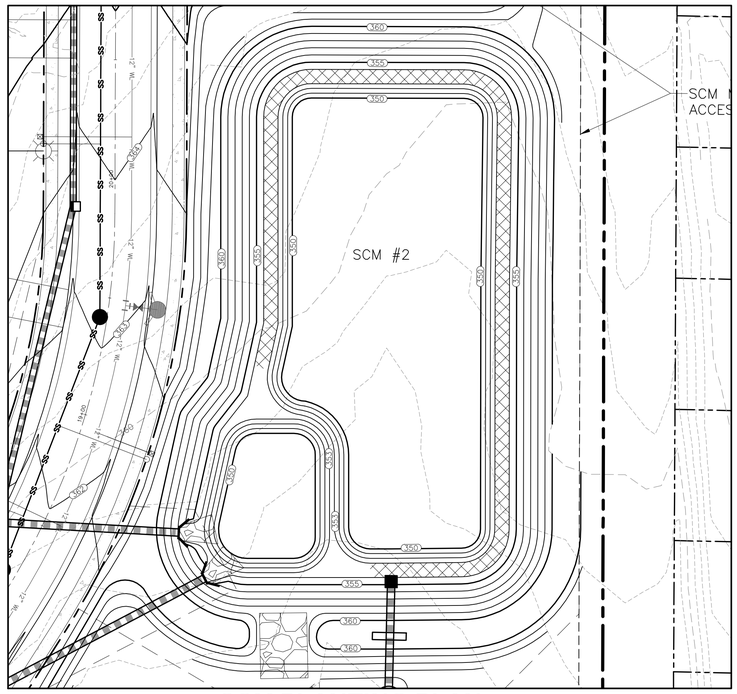
PROJECT: **FDCWP9**

SCM #1 DETAILS

DWG. NO. **SITE 21**



SCM PLAN

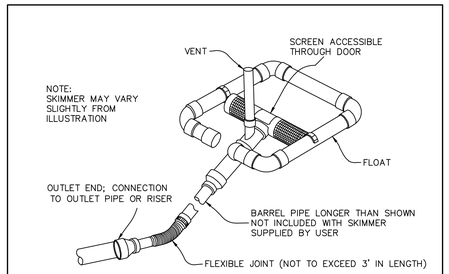


SCM PLANTING PLAN

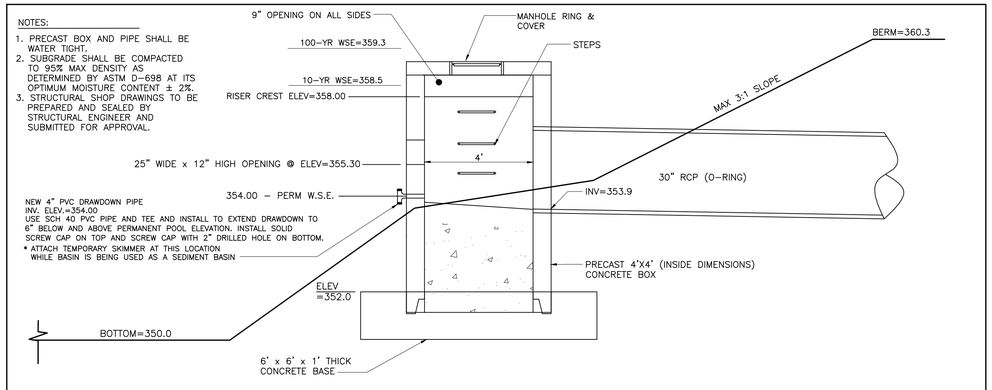
SCM PLANT SCHEDULE

REQUIRED PLANTS BASED ON 2,760 S.F. = 50 PLANTS / 200 S.F. (1,280 S.F.) = 690 PLANTS

PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SPACING
	230	ASCLEPIAS INCARNATA	SWAMP MILKWEED	2" PLUG	2' O.C.
	230	CAREX TENERA	QUILL SEDGE	2" PLUG	2' O.C.
	230	CHELONE GLABRA	WHITE TURTLEHEAD	2" PLUG	2' O.C.

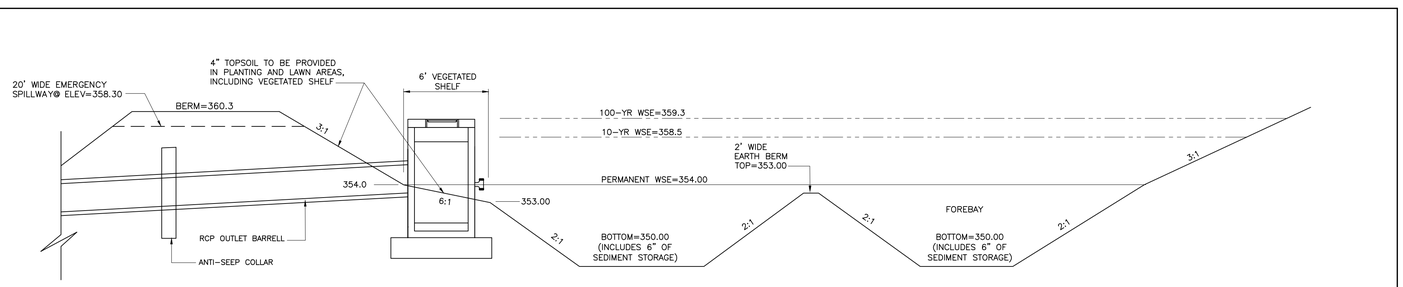


TEMPORARY SEDIMENT DEVICE DEWATERING SKIMMER DETAIL



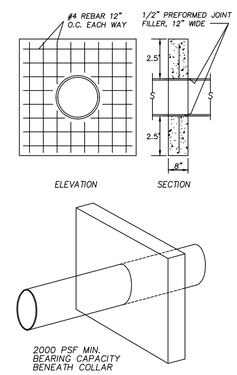
SCM OUTLET STRUCTURE

NOT TO SCALE

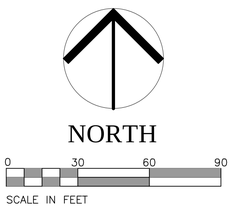


SCM CROSS SECTION

NOT TO SCALE



TYPICAL ANTI-SEEP COLLAR



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PIEDMONT LAND DESIGN, PLLC
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **14 FEB 2024**

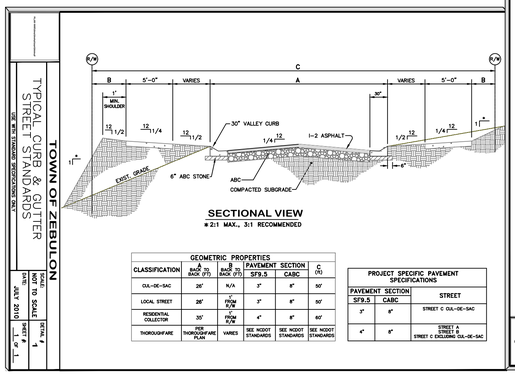
REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

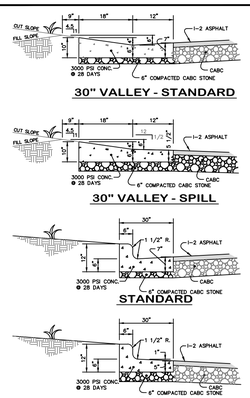
SCM #2 DETAILS

DWG. NO. **SITE 22**



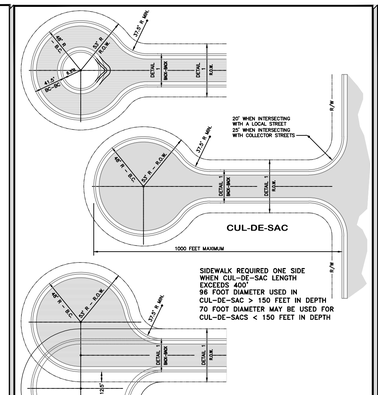
GEOMETRIC PROPERTIES						
CLASSIFICATION	A BACK (FT)	B BACK (FT)	PAVEMENT SECTION SF9.5	PAVEMENT SECTION CABC	C (ft)	
CUL-DE-SAC	28'	N/A	3"	6"	50'	
LOCAL STREET	28'	FROM R/W	3"	6"	50'	
RESIDENTIAL COLLECTOR	35'	FROM R/W	4"	6"	60'	
THOROUGHFARE	PER THOROUGHFARE PLAN	VARIES	SEE NCDOT STANDARDS	SEE NCDOT STANDARDS	SEE NCDOT STANDARDS	

PROJECT SPECIFIC PAVEMENT SPECIFICATIONS		
PAVEMENT SECTION		STREET
SF9.5	CABC	
3"	6"	STREET C CUL-DE-SAC
4"	8"	STREET A LOCAL STREET & STREET C EXCLUDING CUL-DE-SAC

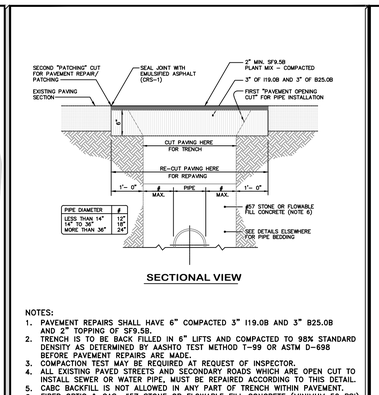


NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
3. FOR TRANSITION OF CURB TO CURB OPENING INLET, SEE STANDARD DETAIL 33.

TOWN OF ZEBULON
STD. CURB & GUTTER & VALLEY GUTTER DETAIL
SCALE: NOT TO SCALE | DETAIL #: 3
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY

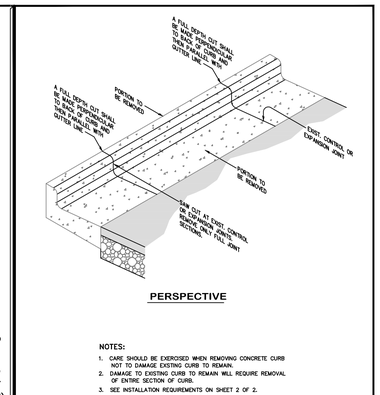


TOWN OF ZEBULON
CUL-DE-SAC DIMENSIONS
SCALE: NOT TO SCALE | DETAIL #: 5
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY



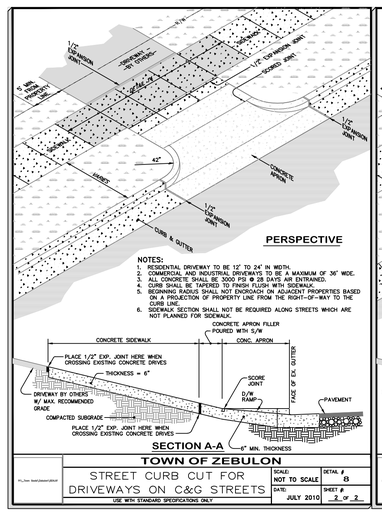
NOTES:
1. PAVEMENT REPAIRS SHALL HAVE 6" COMPACTED 3" I19.0B AND 3" B25.0B AND 2" TOPPING OF SF9.5B.
2. TRENCH IS TO BE BACK FILLED IN 6" LIFTS AND COMPACTED TO 98% STANDARD DENSITY AS DETERMINED BY AASHTO TEST METHOD T-99 OR ASTM D-698 BEFORE PAVEMENT REPAIRS ARE MADE.
3. COMPACTION TEST MAY BE REQUIRED AT REQUEST OF INSPECTOR.
4. ALL EXISTING PAVED STREETS AND SECONDARY ROADS WHICH ARE OPEN CUT TO INSTALL SEWER OR WATER PIPE, MUST BE REPAIRED ACCORDING TO THIS DETAIL.
5. CABC BACKFILL IS NOT ALLOWED IN ANY PART OF TRENCH WITHIN PAVEMENT.
6. FIBER OPTIC & GAS: #57 STONE OR FLOWABLE FILL CONCRETE (MINIMUM 50 PSI) BUT MIN. 6" COMPACTED CLASS II OR III (DEFINITION IN SECTION 02210 – PARAGRAPH 3B OF SPECS) FILL OVER TOP OF FIBER OPTIC CABLE OR GAS PIPE.

TOWN OF ZEBULON
FULL DEPTH ASPHALT REPAIR DETAIL FOR UTILITY CUTS
SCALE: NOT TO SCALE | DETAIL #: 6
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY



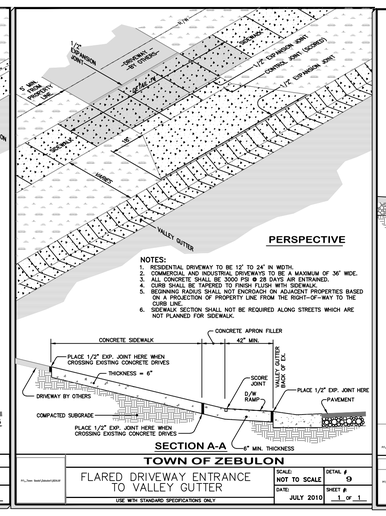
NOTES:
1. CARE SHOULD BE EXERCISED WHEN REMOVING CONCRETE CURB NOT TO DAMAGE EXISTING CURB TO REMAIN.
2. DAMAGE TO EXISTING CURB TO REMAIN WILL REQUIRE REMOVAL OF ENTIRE SECTION OF CURB.
3. SEE INSTALLATION REQUIREMENTS ON SHEET 2 OF 2.

TOWN OF ZEBULON
STREET CURB CUT FOR DRIVEWAYS ON C&G STREETS
SCALE: NOT TO SCALE | DETAIL #: 8
DATE: JULY 2010 | SHEET #: 1 of 2
USE WITH STANDARD SPECIFICATIONS ONLY



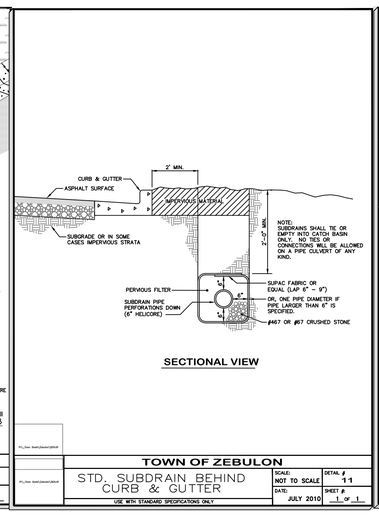
NOTES:
1. RESIDENTIAL DRIVEWAY TO BE 12' TO 24' IN WIDTH.
2. COMMERCIAL AND INDUSTRIAL DRIVEWAYS TO BE A MAXIMUM OF 36' WIDE.
3. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAYS AIR ENTRAINED.
4. CURB SHALL BE TAPERED TO FINISH FLUSH WITH SIDEWALK.
5. BEGINNING RADIUS SHALL NOT ENCROACH ON ADJACENT PROPERTIES BASED ON A PROJECTION OF PROPERTY LINE FROM THE RIGHT-OF-WAY TO THE CURB LINE.
6. SIDEWALK SECTION SHALL NOT BE REQUIRED ALONG STREETS WHICH ARE NOT PLANNED FOR SIDEWALK.

TOWN OF ZEBULON
STREET CURB CUT FOR DRIVEWAYS ON C&G STREETS
SCALE: NOT TO SCALE | DETAIL #: 8
DATE: JULY 2010 | SHEET #: 2 of 2
USE WITH STANDARD SPECIFICATIONS ONLY

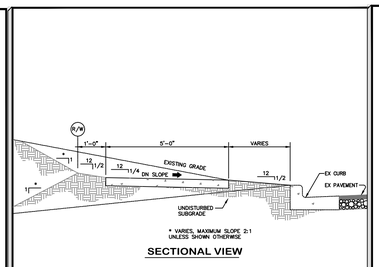


NOTES:
1. RESIDENTIAL DRIVEWAY TO BE 12' TO 24' IN WIDTH.
2. COMMERCIAL AND INDUSTRIAL DRIVEWAYS TO BE A MAXIMUM OF 36' WIDE.
3. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAYS AIR ENTRAINED.
4. CURB SHALL BE TAPERED TO FINISH FLUSH WITH SIDEWALK.
5. BEGINNING RADIUS SHALL NOT ENCROACH ON ADJACENT PROPERTIES BASED ON A PROJECTION OF PROPERTY LINE FROM THE RIGHT-OF-WAY TO THE CURB LINE.
6. SIDEWALK SECTION SHALL NOT BE REQUIRED ALONG STREETS WHICH ARE NOT PLANNED FOR SIDEWALK.

TOWN OF ZEBULON
FLARED DRIVEWAY ENTRANCE TO VALLEY GUTTER
SCALE: NOT TO SCALE | DETAIL #: 9
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY

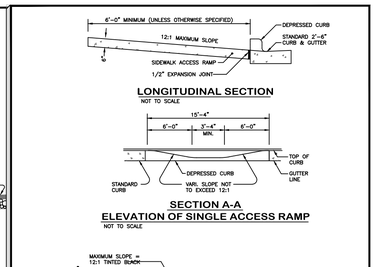


TOWN OF ZEBULON
STD. SUBDRAIN BEHIND CURB & GUTTER
SCALE: NOT TO SCALE | DETAIL #: 11
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY

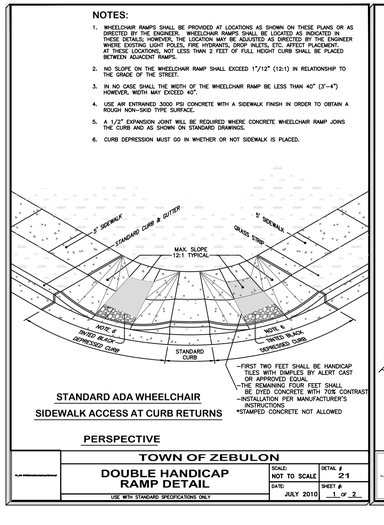


1. PROVIDE 3/4" DEEP TOOLED SCORE AT 5'-0" O.C.
2. EXPANSION JOINTS TO BE PLACED 30'-0" O.C. LONGITUDINALLY, ADJACENT TO CURBS, AND WHEN BUTTING EXISTING STRUCTURES, CONCRETE, OR BUILDINGS.
3. CONCRETE TO BE 3000 P.S.I. AT 28 DAYS, AIR-ENTRAINED.
4. SUBGRADE SHOULD NOT CONTAIN ORGANIC MATTER OR PLASTIC CLAYS. WHEN FOUND, REFER TO SPECS OR CONTACT ENGINEER FOR DIRECTIONS.
5. AREAS OF FILL ARE TO BE COMPACTED TO 95% STANDARD PROCTOR USING NCDOT CLASS III BORROW OR BETTER. REMOVE TOPSOIL BEFORE PLACING BORROW.
6. SIDEWALK TRANSVERSE SLOPE MAY INCREASE TO 1/2 IN 12 WITH TOWN'S ENGINEER APPROVAL.

TOWN OF ZEBULON
TYP SIDEWALK in CUT or FILL SECTIONS
SCALE: NOT TO SCALE | DETAIL #: 13
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY

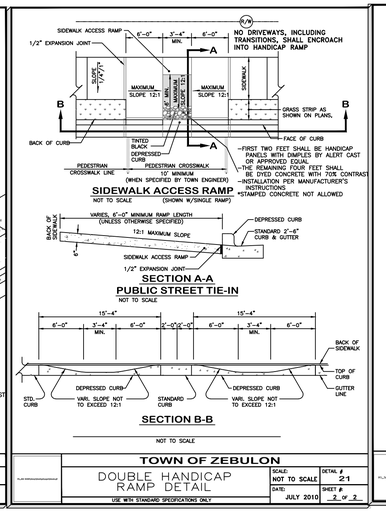


TOWN OF ZEBULON
SINGLE HANDICAP RAMP DETAIL
SCALE: NOT TO SCALE | DETAIL #: 20
DATE: JULY 2010 | SHEET #: 1 of 1
USE WITH STANDARD SPECIFICATIONS ONLY

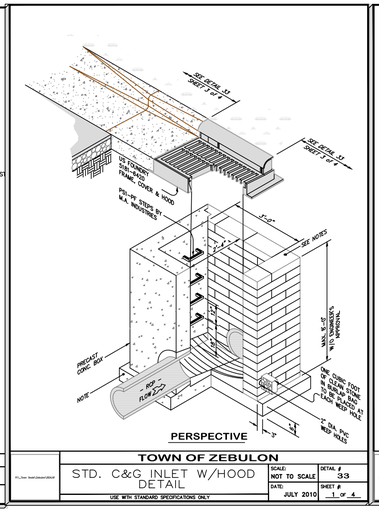


NOTES:
1. WHEELCHAIR RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE LOCATED AS INDICATED IN THESE DETAILS; HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. AT THESE LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN ADJACENT RAMPS.
2. NO SLOPE ON THE WHEELCHAIR RAMP SHALL EXCEED 1"/12" (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
3. IN NO CASE SHALL THE WIDTH OF THE WHEELCHAIR RAMP BE LESS THAN 40" (3'-4") HOWEVER, WIDTH MAY EXCEED 40".
4. USE AIR ENTRAINED 3000 PSI CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
5. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STANDARD DRAWINGS.
6. CURB DEPRESSION MUST GO IN WHETHER OR NOT SIDEWALK IS PLACED.

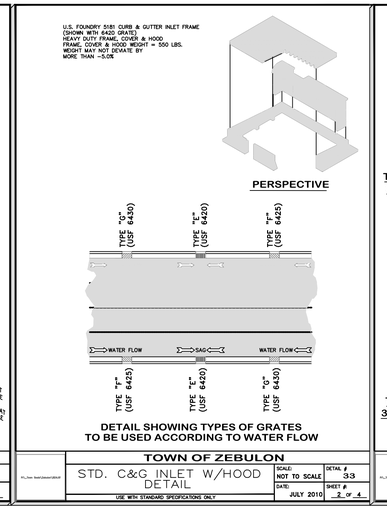
TOWN OF ZEBULON
DOUBLE HANDICAP RAMP DETAIL
SCALE: NOT TO SCALE | DETAIL #: 21
DATE: JULY 2010 | SHEET #: 1 of 2
USE WITH STANDARD SPECIFICATIONS ONLY



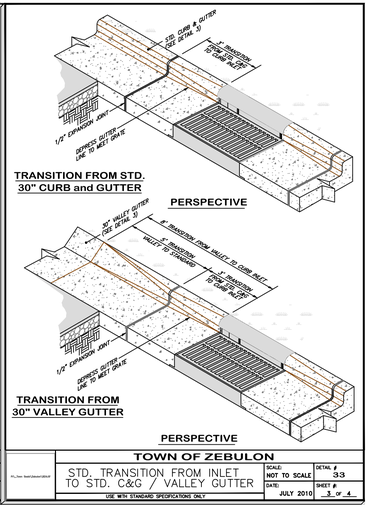
TOWN OF ZEBULON
DOUBLE HANDICAP RAMP DETAIL
SCALE: NOT TO SCALE | DETAIL #: 21
DATE: JULY 2010 | SHEET #: 2 of 2
USE WITH STANDARD SPECIFICATIONS ONLY



TOWN OF ZEBULON
STD. C&G INLET W/HOOD DETAIL
SCALE: NOT TO SCALE | DETAIL #: 33
DATE: JULY 2010 | SHEET #: 1 of 4
USE WITH STANDARD SPECIFICATIONS ONLY



TOWN OF ZEBULON
STD. C&G INLET W/HOOD DETAIL
SCALE: NOT TO SCALE | DETAIL #: 33
DATE: JULY 2010 | SHEET #: 2 of 4
USE WITH STANDARD SPECIFICATIONS ONLY



TOWN OF ZEBULON
STD. TRANSITION FROM INLET TO STD. C&G / VALLEY GUTTER
SCALE: NOT TO SCALE | DETAIL #: 33
DATE: JULY 2010 | SHEET #: 3 of 4
USE WITH STANDARD SPECIFICATIONS ONLY

PLD
PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER
02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **02 FEB 2024**

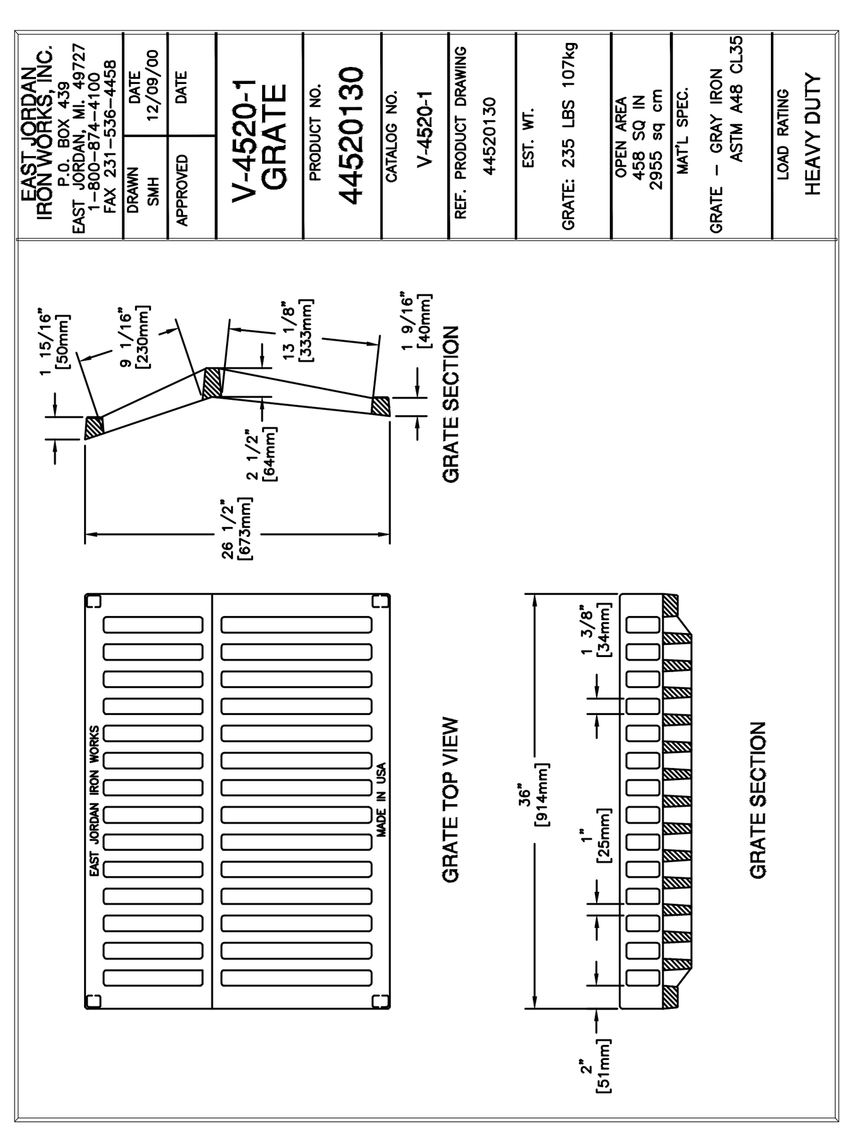
REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILS

DWG. NO. **SITE 23**



NOTE: USE EAST JORDAN IRON WORKS V-4520-1 GRATE OR EQUIVALENT BY US FOUNDRY.

TOWN OF ZEBULON

DETAIL FOR STORM DRAIN WITH DRIVEWAY CONFLICT

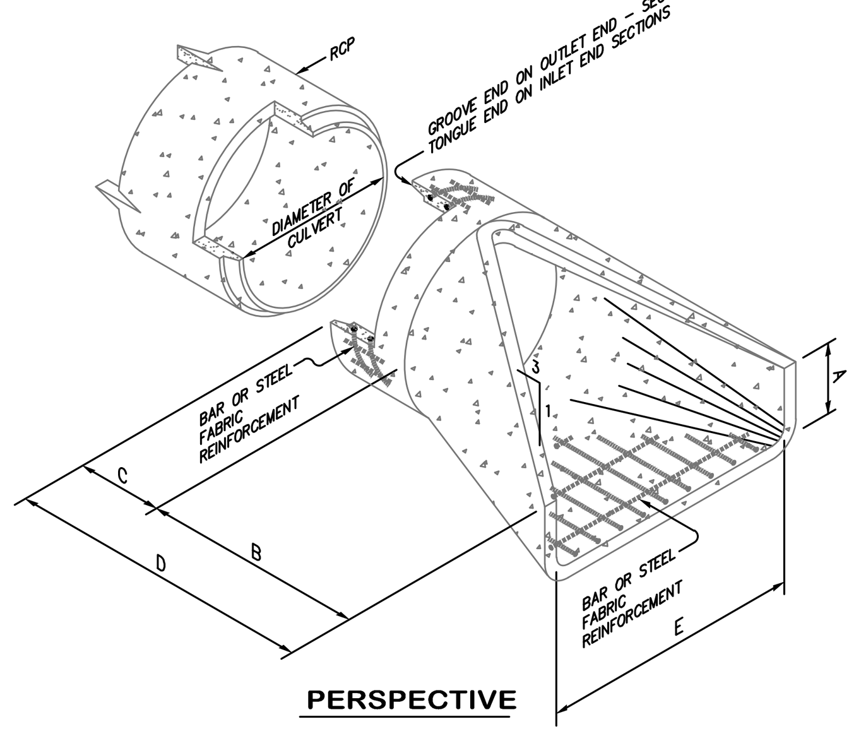
SCALE: NOT TO SCALE | DETAIL # 33 | DATE: JULY 2010 | SHEET #: 4 OF 4

USE WITH STANDARD SPECIFICATIONS ONLY

END SECTION DIMENSIONS					
DIA.	A	B	C	D	E
15"	7"	2'-3 1/4"	3'-11 1/2"	6'-2 3/4"	2'-6"
18"	9"	2'-3"	3'-11 3/4"	6'-2 3/4"	3'-0"
24"	9"	3'-7"	3'-1"	6'-8"	3'-11 3/4"
30"	1'-0"	4'-6 1/2"	1'-10 1/2"	6'-5"	5'-0"
36"	1'-4"	5'-0"	3'-1 1/2"	8'-1 1/2"	5'-11"
42"	1'-10 1/4"	5'-1 3/8"	3'-1"	8'-2 3/8"	6'-5 1/4"

NOTES:

1. DESIGN OF END-SECTION SHALL CONFORM TO STANDARD REINFORCED SECTIONAL CONCRETE CULVERT PIPE.
2. ANY TWIN BARREL SYSTEM GREATER THAN 42" RCP REQUIRES A HEADWALL.
3. ANY SYSTEM OF MORE THAN 2 PIPES REQUIRES A HEADWALL.
4. SEE NCDOT "ROADWAY STANDARD DRAWINGS" FOR HEADWALL CONSTRUCTION DETAILS.



PERSPECTIVE

TOWN OF ZEBULON

STD. FLARED END SECTIONS DESIGN AID DETAIL

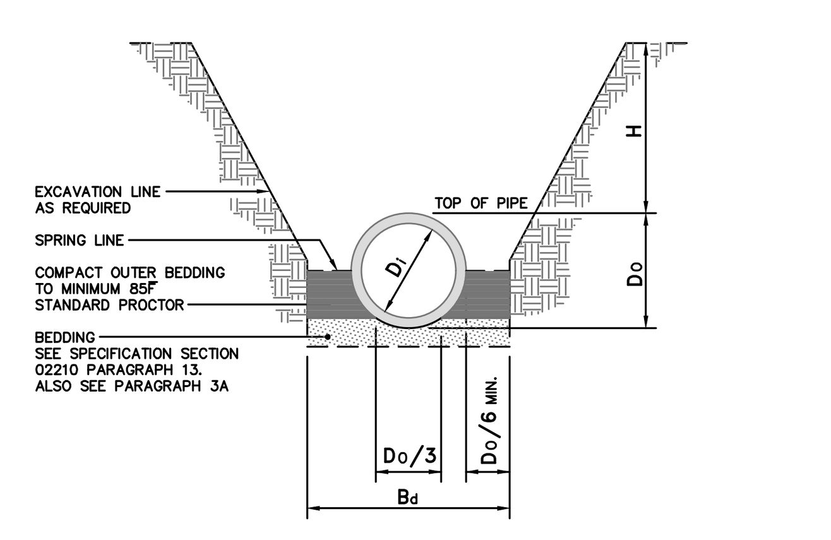
SCALE: NOT TO SCALE | DETAIL # 35 | DATE: JULY 2010 | SHEET #: 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

D_i = INSIDE DIAMETER OF PIPE
D_o = OUTSIDE DIAMETER OF PIPE
B_d = TRENCH WIDTH
H = BACKFILL COVER ABOVE TOP OF PIPE

PIPE D_i	MAX. B_d	MAX. BURY H CLASS III (0.01 CRACK)	MAX. BURY H CLASS IV (0.01 CRACK)
15"	4'	9.5'	14.5'
18"	4'	9.5'	15.0'
24"	4'	12.0'	23.5'
30"	5.5'	10.0'	17.0'
36"	6'	10.5'	18.0'
42"	6.5'	13.0'	19.0'
48"	7'	13.5'	20.0'
54"	8'	13.0'	18.5'
60"	9'	11.0'	18.0'
72"	10'	13.0'	19.0'

THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING



SECTIONAL VIEW

NOTES:

1. FOR OTHER BURY DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVIDE CALCS ON PIPE BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDITIONS IN WHICH IT IS PROPOSED TO BE USED.
2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE BEDDING, TYPE 4 LAYING CONDITIONS.
3. MINIMUM COVER NOT SHOWN BUT NO LESS THAN 12" W/O ENGINEERS APPROVAL UP TO 48" PIPE.

TOWN OF ZEBULON

STD. TRENCH INSTALLATION FOR CONCRETE PIPE (FOR CONTRACTOR'S USE)

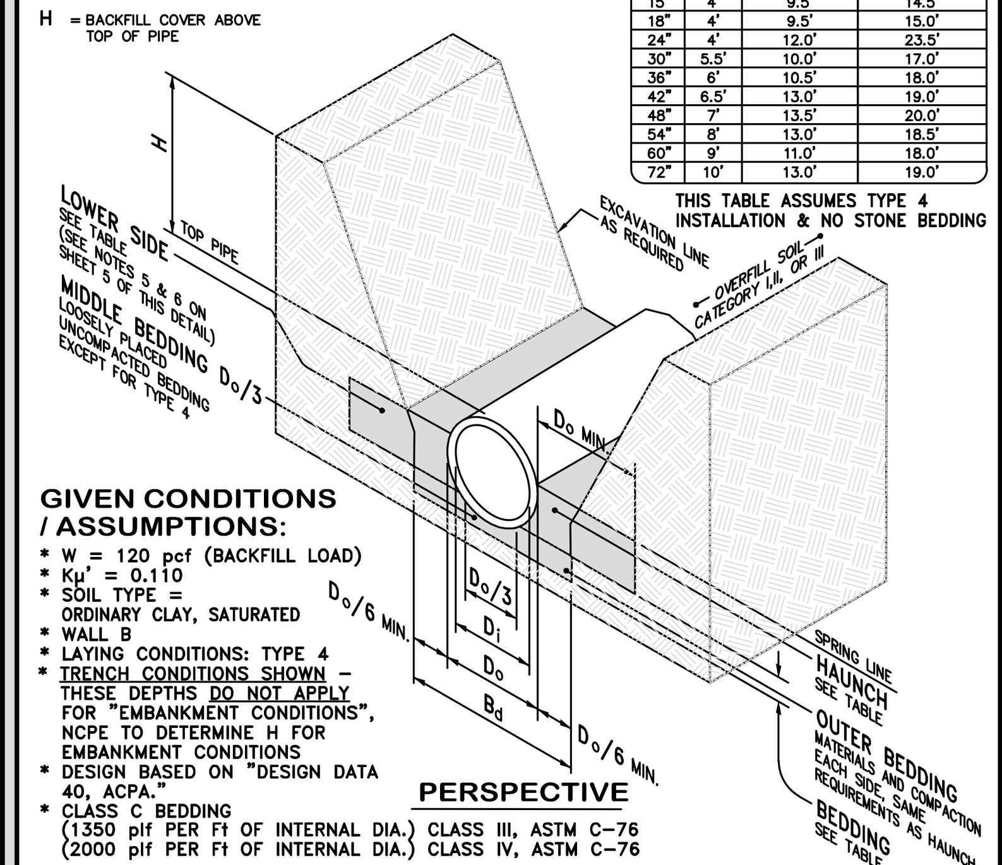
SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET #: 1 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY

D_i = INSIDE DIAMETER OF PIPE
D_o = OUTSIDE DIAMETER OF PIPE
B_d = TRENCH WIDTH
H = BACKFILL COVER ABOVE TOP OF PIPE

PIPE D_i	MAX. B_d	MAX. BURY H CLASS III (0.01 CRACK)	MAX. BURY H CLASS IV (0.01 CRACK)
15"	4'	9.5'	14.5'
18"	4'	9.5'	15.0'
24"	4'	12.0'	23.5'
30"	5.5'	10.0'	17.0'
36"	6'	10.5'	18.0'
42"	6.5'	13.0'	19.0'
48"	7'	13.5'	20.0'
54"	8'	13.0'	18.5'
60"	9'	11.0'	18.0'
72"	10'	13.0'	19.0'

THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING



GIVEN CONDITIONS / ASSUMPTIONS:

- * W = 120 pcf (BACKFILL LOAD)
- * Kμ' = 0.110
- * SOIL TYPE = ORDINARY CLAY, SATURATED
- * WALL B
- * LAYING CONDITIONS: TYPE 4
- * TRENCH CONDITIONS SHOWN - THESE DEPTHS DO NOT APPLY FOR "EMBANKMENT CONDITIONS", NCPE TO DETERMINE H FOR EMBANKMENT CONDITIONS
- * DESIGN BASED ON "DESIGN DATA 40, ACPA."
- * CLASS C BEDDING (1350 plf PER Ft OF INTERNAL DIA.) CLASS III, ASTM C-76 (2000 plf PER Ft OF INTERNAL DIA.) CLASS IV, ASTM C-76

PERSPECTIVE

NOTES:

1. GREATER DEPTHS ARE ACHIEVABLE BY EITHER CONTROLLING BACKFILL TYPE, NARROWING TRENCH WIDTH BUT SUPPLY SUFFICIENT ROOM FOR COMPACTION, IMPROVING BEDDING OR LOADING TO ULTIMATE LOAD (Du). FOR OTHER BURY DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVIDE CALCS ON PIPE BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDITIONS IN WHICH IT IS PROPOSED TO BE USED.
2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE BEDDING, TYPE 4. LAYING CONDITIONS
3. MINIMUM COVER NOT SHOWN
4. MAXIMUM BURY TABLE FOR "TRENCH CONDITIONS" PER THE DETAIL SHOWN THIS SHEET

TOWN OF ZEBULON

STD. TRENCH INSTALLATION FOR CONCRETE PIPE (FOR ENGINEER'S USE)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET #: 2 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY

Table 1 Equivalent USCS and AASHTO Soil CLassification for SIDD Soil Designations

	Representative Soil Types		Percent Compaction	
SIDD Soil	USCS,	AASHTO	Standard Proctor	Modified Proctor
Gravelly Sand (Category I)	SW, SP, GW, GP	A1,A3	100 95 90 85 80 61	95 90 85 80 75 59
Sandy Silt (Category II)	GM, SM, ML Also GC, SC with less than 20% passing #200 sieve	A2,A4	100 95 90 85 80 49	95 90 85 80 75 46
Silty Clay (Category III)	CL, MH GC, SC	A5,A6	100 95 90 85 80 45	90 85 80 75 70 40
	CH		100 95 90 45	90 85 80 40

TOWN OF ZEBULON

STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET #: 3 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY

Table 2 Standard EMBANKMENT Installation Soils and Minimum Compaction Requirements

Installation Type[4]	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Type 1	D_o/24 minimum, not less than 75 mm (3"). If rock foundation,use D_o/12 minimum, not less than 150 mm (6").	98% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	D_o/24 minimum, not les than 75 mm (3"). If rock foundation, use D_o/12 minimum,not less than 150 mm (6").	90% Category I or 95% Categiry II	85% Category I, 90% Category II, or 95% Category III
Type 3	D_o/24 minimum, not less than 75 mm (3"). If rock foundation, use D_o/12 minimum, not less than 150 mm (6").	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	D_o/24 minimum, not less than 75 mm (3"). If rock foundation, use D_o/12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:

1. Compaction and soils symbols - i.e. "98% Category I' refers to Category 1 soil material with a minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.
2. Soil in the outer bedding, haunch, and lower side zones, except within D0/3 from the pipe springline, shall be compacted to at least the same compaction as the majority of the soil in the overfill zone.
3. Subtrenches
3.1 A subtrench is defined as a trench with its top below finished grade by more than 0.1 H or, for roadways, its top is at an elevation lower than 0.3 m (1') below the bottom of the pavement base material.
3.2 The minimum width of a subtrench shall be 1.33 D_o or wider if required for adequate space to attain the specified compaction in the haunch and bedding zones.
3.3 For subtrenches with wall of natural soil, any portion of the lower side zone in the subtrench wall shall be at least as firm as an equivalent soil placed to the compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or shall be removed and replaced with soil compacted to the specified level.
4. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.

TOWN OF ZEBULON

STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET #: 4 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY

Table 3 Standard TRENCH Installations Soils and Minimum Compaction Requirements

Installation Type[7]	Bedding Thickness	Haunch Outer Bedding	Lower Side
Type 1	D_o/24 minimum, not less than 75 mm (3"). If rock foundation, use D_o/12 minimum, not less than 150 mm (6").	98% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	D_o/24 minimum, not less than 75 mm (3"). If rock foundation, use D_o/12 minimum, not less than 150 mm (6").	90% Category I or 95% Category II	85% Category I, 90% Category II, or 95% Category III
Type 3	D_o/24 minimum, not less than 75 mm (3"). If rock foundation, use D_o/12 minimum, not less than 150 mm (6").	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	D_o/24 minimum, not less than 75 mm (3"). If rock foundation, use D_o/12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:

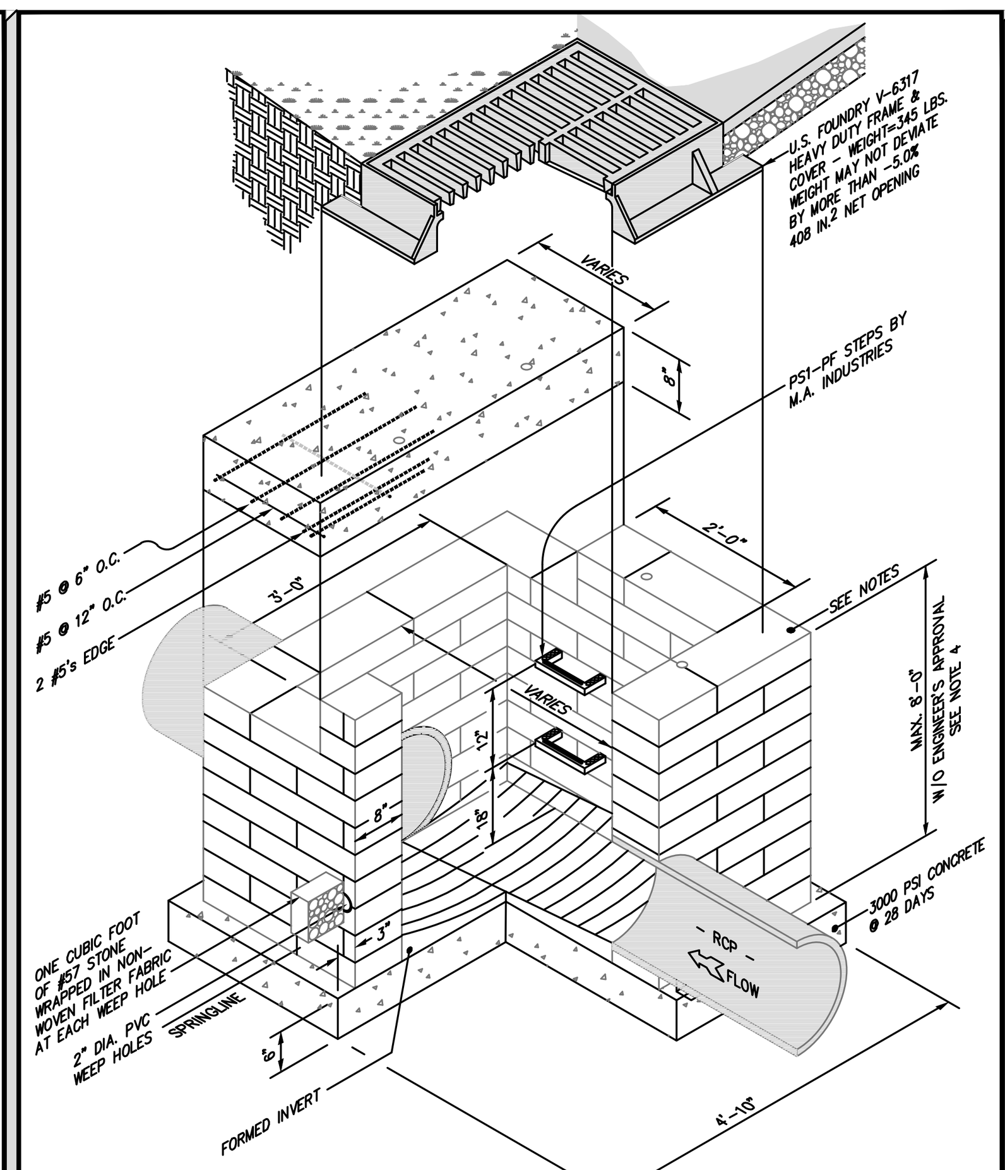
1. Compaction and soils symbols - i.e. "98% Category I" refers to Category I soil materials with minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.
2. The trench top elevation shall be no lower than 0.1 H below finished grade or, for roadways, its top shall be no lower than an elevation of 0.3 m (1') below the bottom of the pavement base material.
3. Soil in bedding and haunch zones shall be compacted to at least the same compaction as specified for the majority of soil in the backfill zone.
4. The trench width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zone.
5. For trench walls that are within 10 degrees of vertical, the compaction or firmness of the soil in the trench walls and lower side zone need not be considered.
6. For trench walls with greater than 10 degrees slopes that consist of embankment, the lower side shall be compacted to at least the same compaction as specified for the soil in the backfill zone.
7. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.

TOWN OF ZEBULON

STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET #: 5 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY



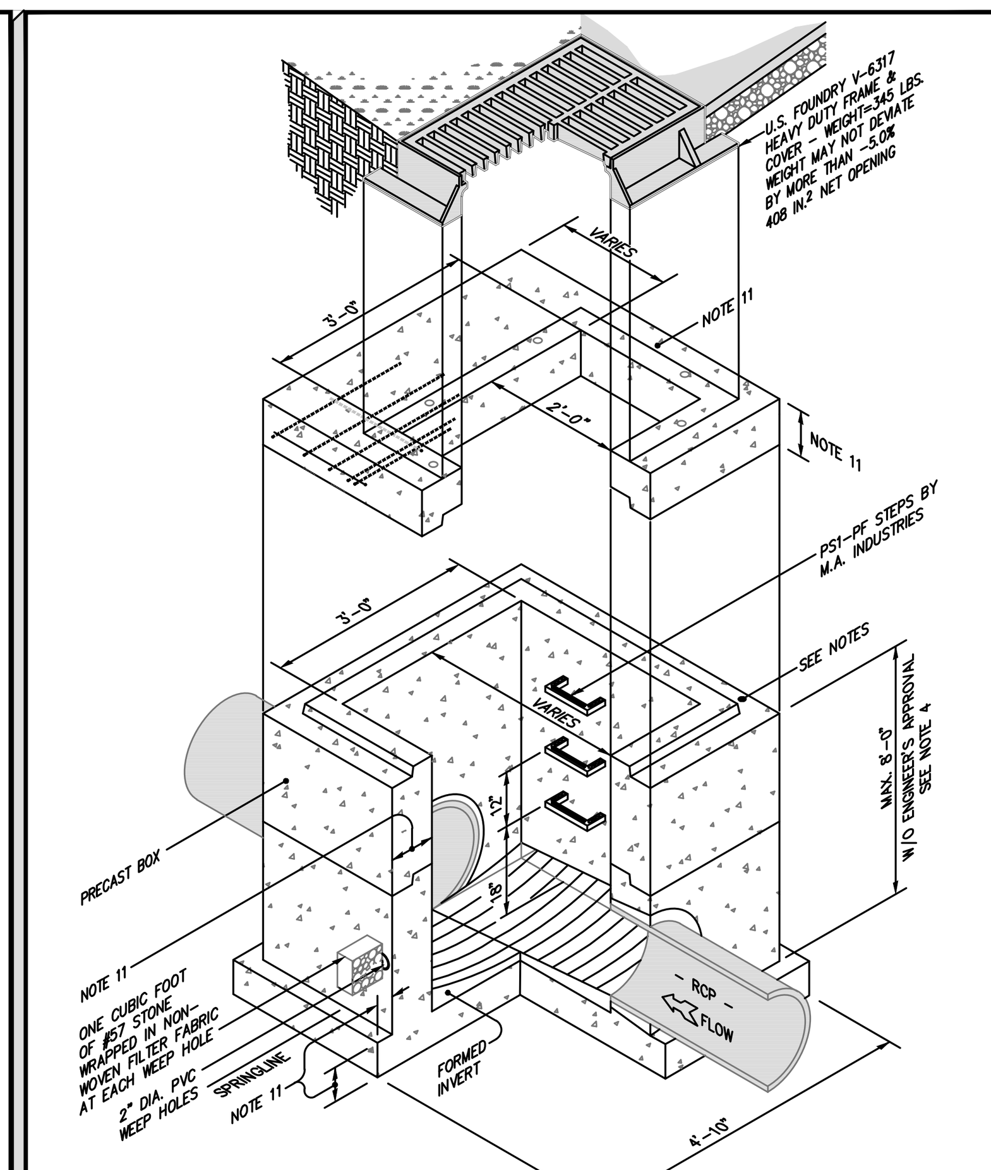
PERSPECTIVE

TOWN OF ZEBULON

STD. 3' x VARIABLE LENGTH BOX WITH 2' x 3' C.B.

SCALE: NOT TO SCALE | DETAIL # 39 | DATE: JULY 2010 | SHEET #: 1 OF 2

USE WITH STANDARD SPECIFICATIONS ONLY



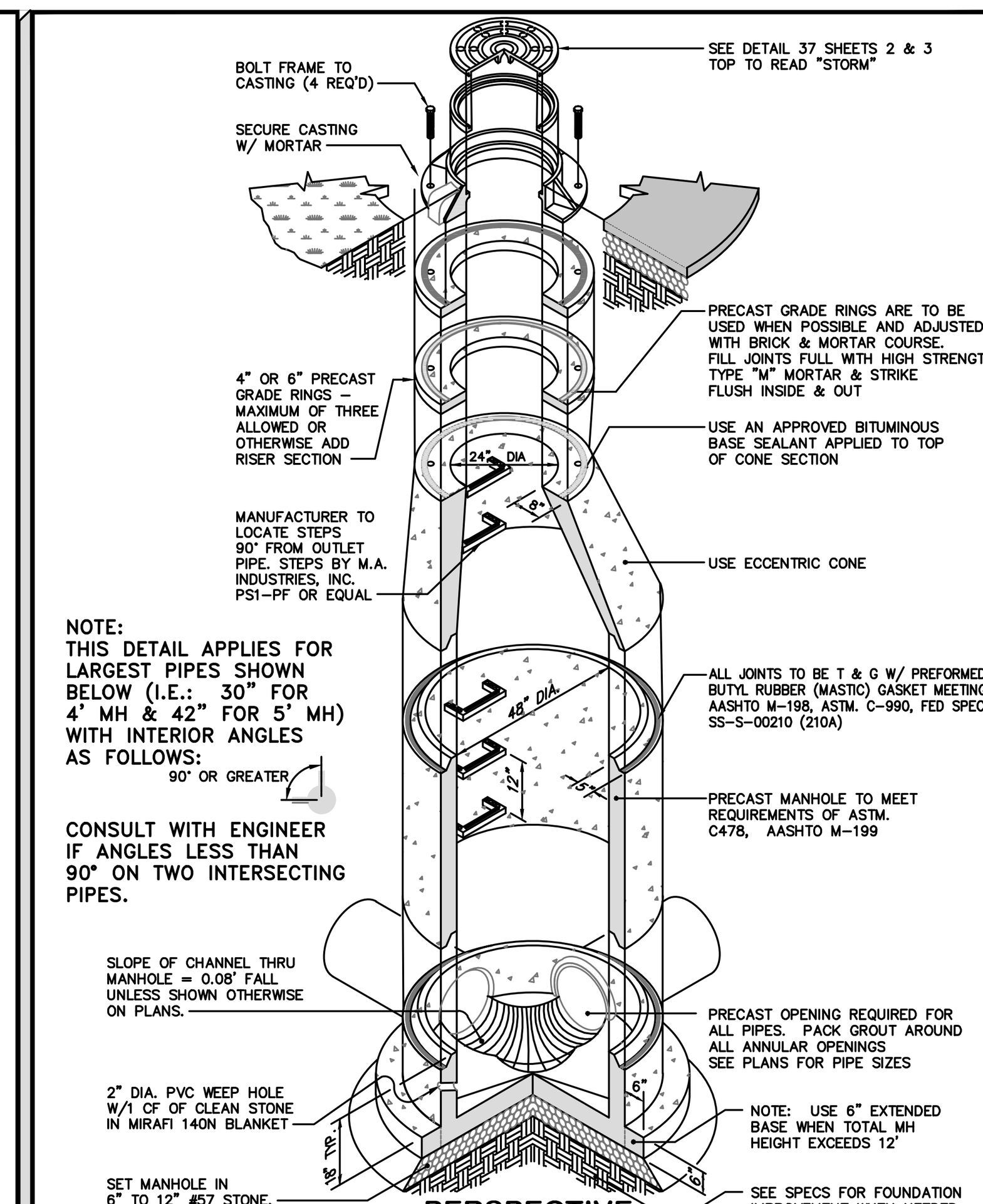
PERSPECTIVE

TOWN OF ZEBULON

STD. 3' x VARIABLE LENGTH PRECAST BOX WITH 2' x 3' C.B.

SCALE: NOT TO SCALE | DETAIL # 39 | DATE: JULY 2010 | SHEET #: 2 OF 2

USE WITH STANDARD SPECIFICATIONS ONLY



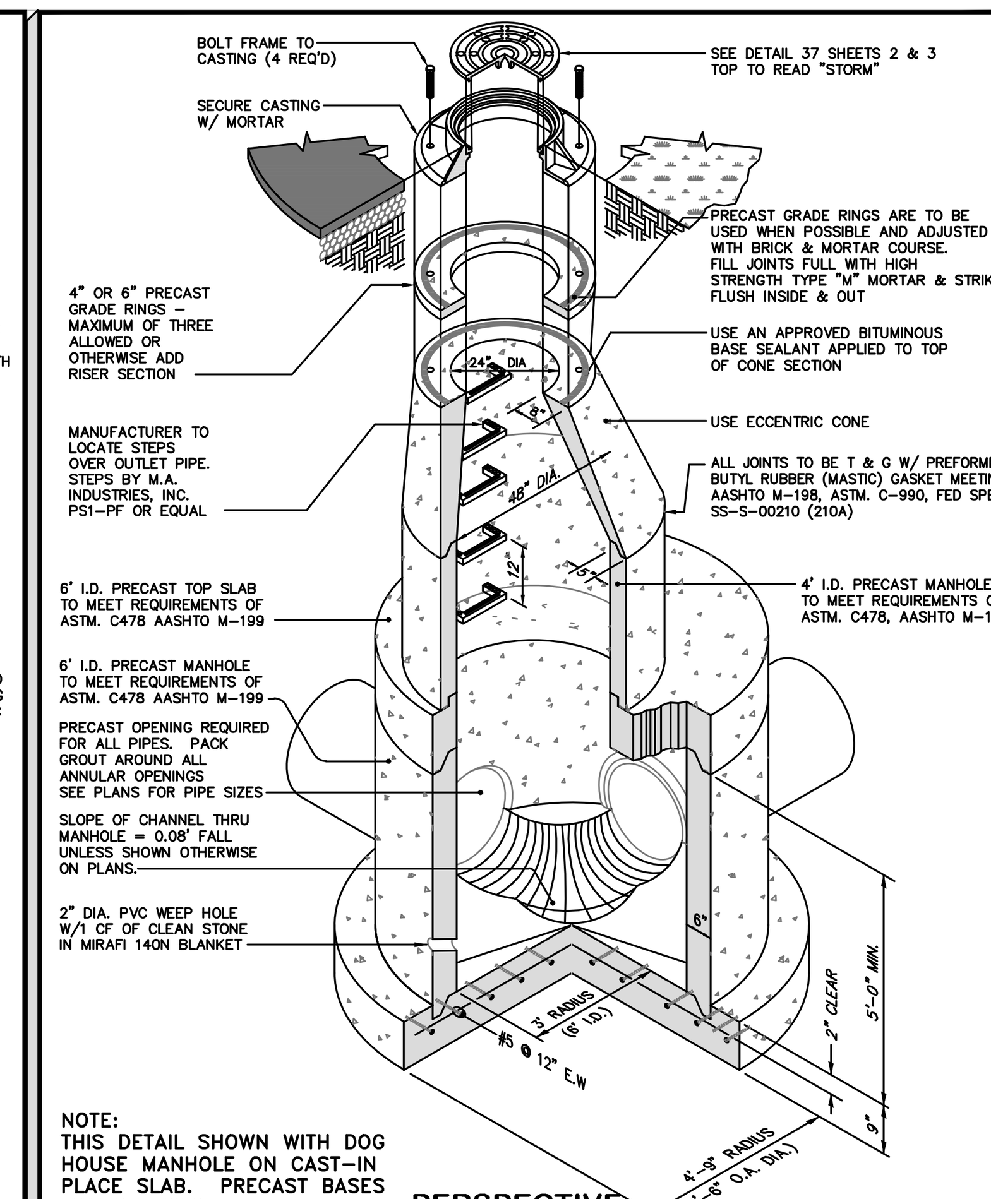
PERSPECTIVE

TOWN OF ZEBULON

PRECAST CONCRETE 4' DIA. MH JB

SCALE: NOT TO SCALE | DETAIL # 40 | DATE: JULY 2010 | SHEET #: 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY



NOTE: THIS DETAIL SHOWN WITH DOG HOUSE MANHOLE ON CAST-IN PLACE SLAB. PRECAST BASES MAY BE USED

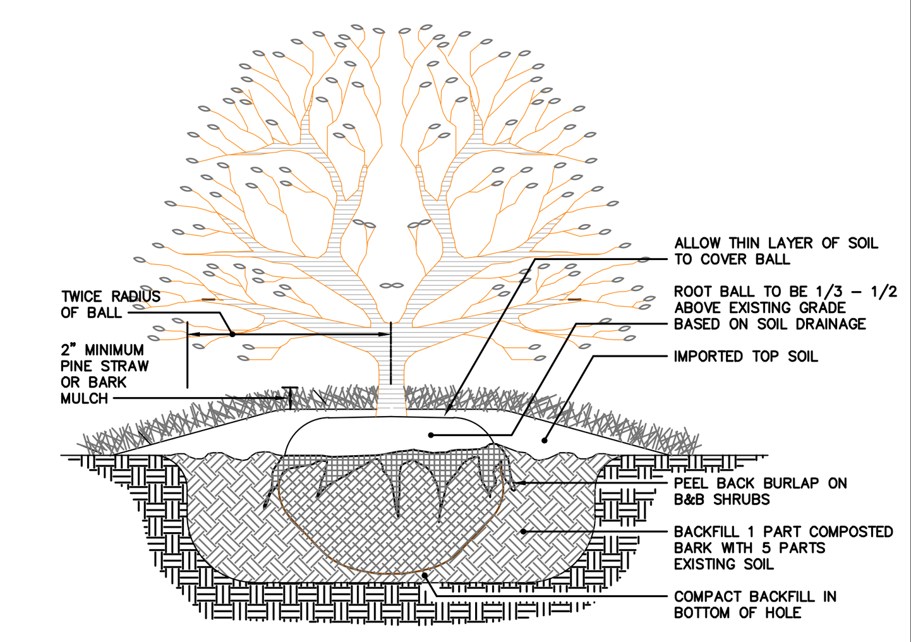
PERSPECTIVE

TOWN OF ZEBULON

PRECAST CONCRETE 6' TO 4' DIA. MH JB

SCALE: NOT TO SCALE | DETAIL # 41 | DATE: JULY 2010 | SHEET #: 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY



SECTIONAL VIEW

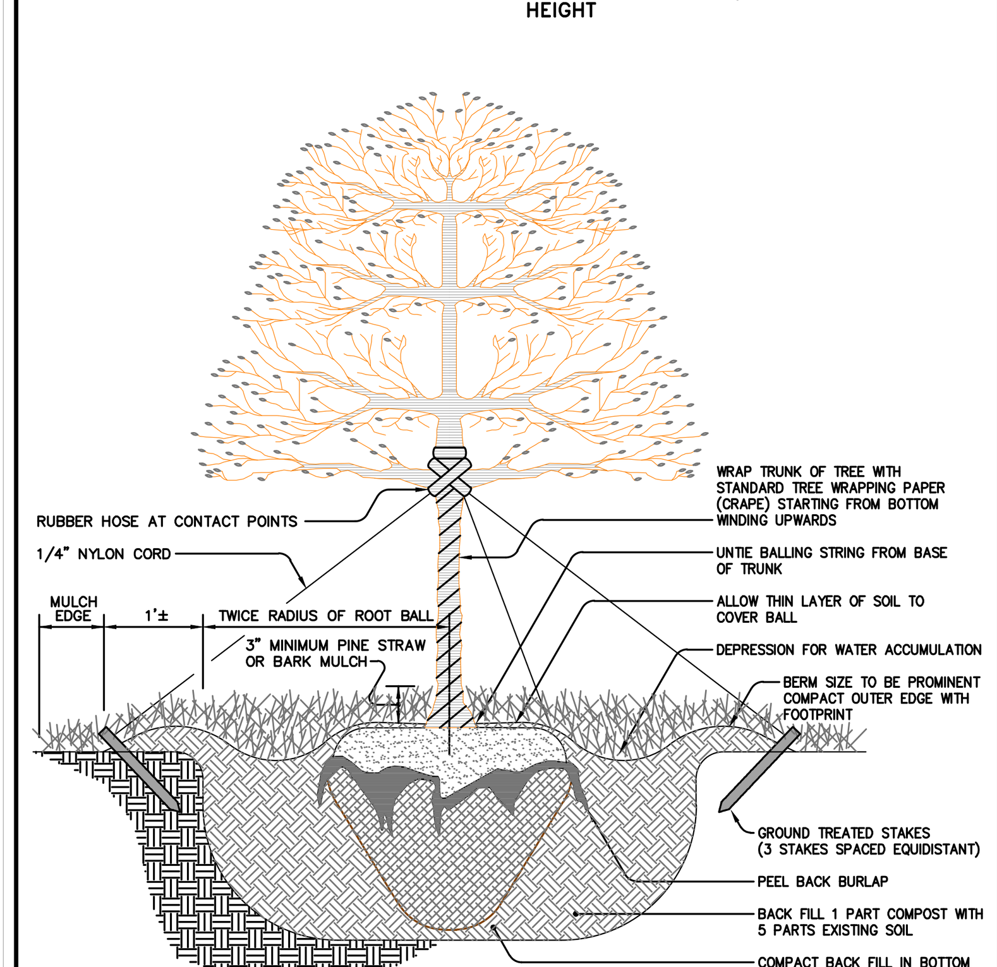
TOWN OF ZEBULON

TYPICAL SHRUB PLANTING DETAIL

SCALE: NOT TO SCALE | DETAIL # 43 | DATE: JULY 2010 | SHEET #: 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

NOTE: PRUNE LOWER BRANCHES OF TREE BACK TO MAIN TRUNK SO THAT REMAINING HEAD IS APPROX. 1/2 OF TOTAL TREE HEIGHT



SECTIONAL VIEW

TOWN OF ZEBULON

TYPICAL TREE STAKING and PLANTING DETAIL

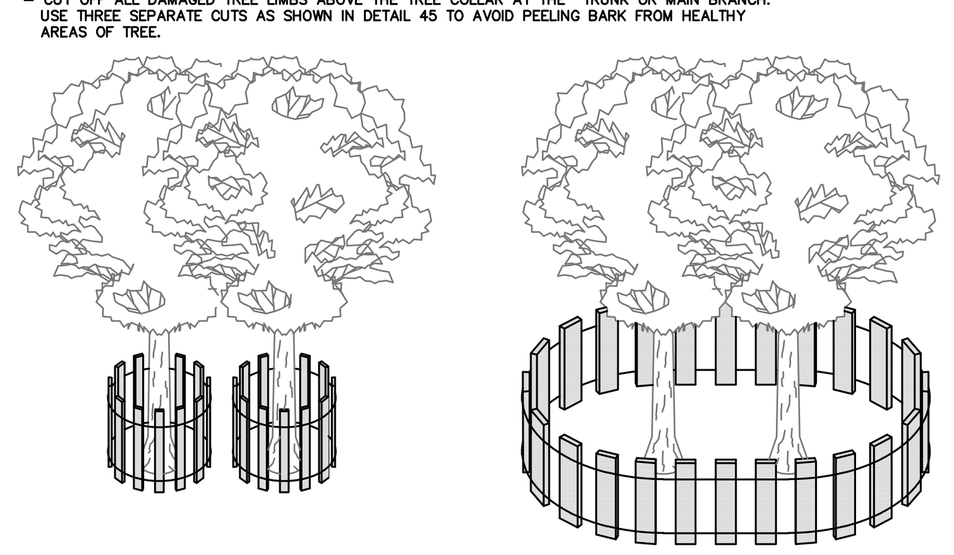
SCALE: NOT TO SCALE | DETAIL # 44 | DATE: JULY 2010 | SHEET #: 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

NOTES:

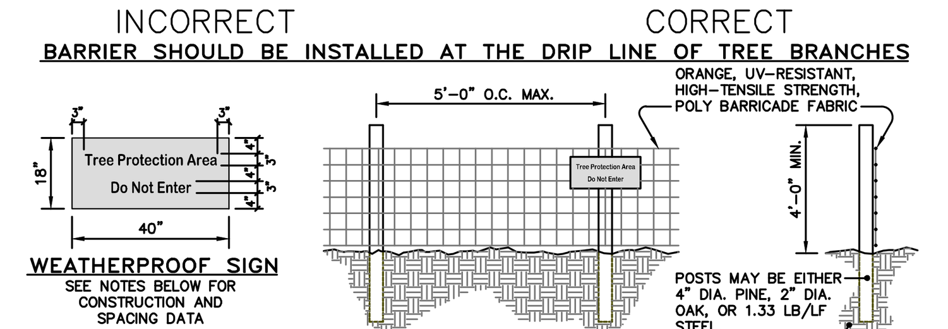
IN SPITE OF PRECAUTIONS, SOME DAMAGE TO TREES MAY OCCUR.
IN SUCH CASES REPAIR ANY DAMAGE TO CROWN, TRUCK OR ROOT SYSTEM IMMEDIATELY.

- REPAIR ROOTS BY CUTTING OFF THE DAMAGED AREAS AND PAINT THEM WITH TREE PAINT. SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.
- REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREA AS SHOWN IN DETAIL 45 TAPER THE CUT TO PROVIDE DRAINAGE AND PAINT WITH TREE PAINT.
- CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE THREE SEPARATE CUTS AS SHOWN IN DETAIL 45 TO AVOID PEELING BARK FROM HEALTHY AREAS OF TREE.



INCORRECT CORRECT

BARRIER SHOULD BE INSTALLED AT THE DRIP LINE OF TREE BRANCHES



WEATHERPROOF SIGN
SEE NOTES BELOW FOR CONSTRUCTION AND SPACING DATA

ELEVATIONAL VIEW

NOTES:

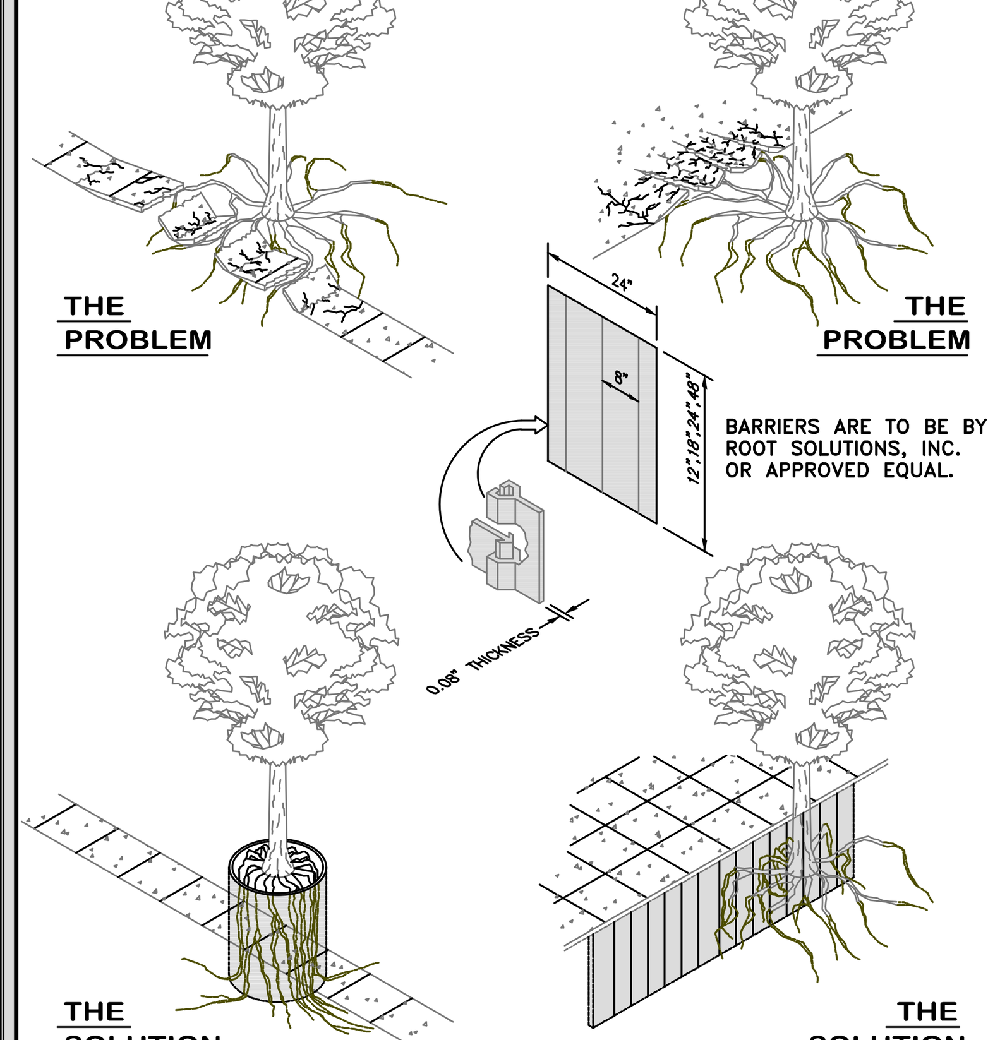
1. INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR THE INITIAL ON SITE INSPECTION BY THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
3. LETTERS ARE TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
4. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER.
5. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AREAS AND 200' ON CENTER THEREAFTER.
6. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
7. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
8. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
9. ADDITIONAL SIGNS MAY BE REQUIRED BY TOWN OF ZEBULON PUBLIC WORKS DEPT. BASED ON ACTUAL FIELD CONDITIONS.

TOWN OF ZEBULON

STANDARD TREE PROTECTION DETAIL

SCALE: NOT TO SCALE | DETAIL # 46 | DATE: JULY 2010 | SHEET #: 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY



TOWN OF ZEBULON

STANDARD ROOT BARRIER DETAIL

SCALE: NOT TO SCALE | DETAIL # 47 | DATE: JULY 2010 | SHEET #: 1 OF 1

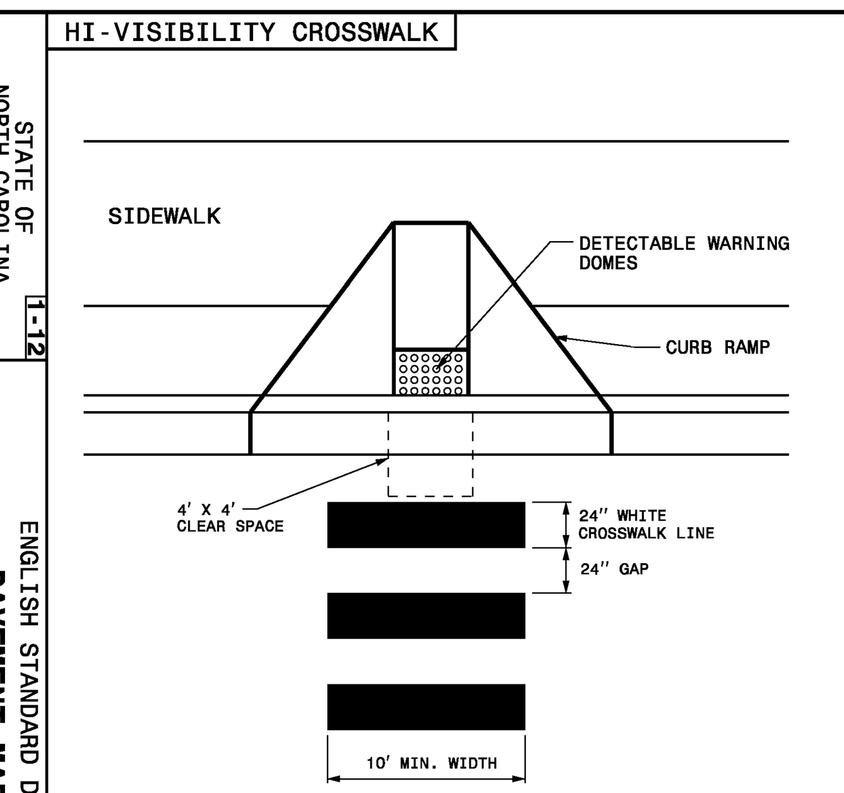
USE WITH STANDARD SPECIFICATIONS ONLY

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

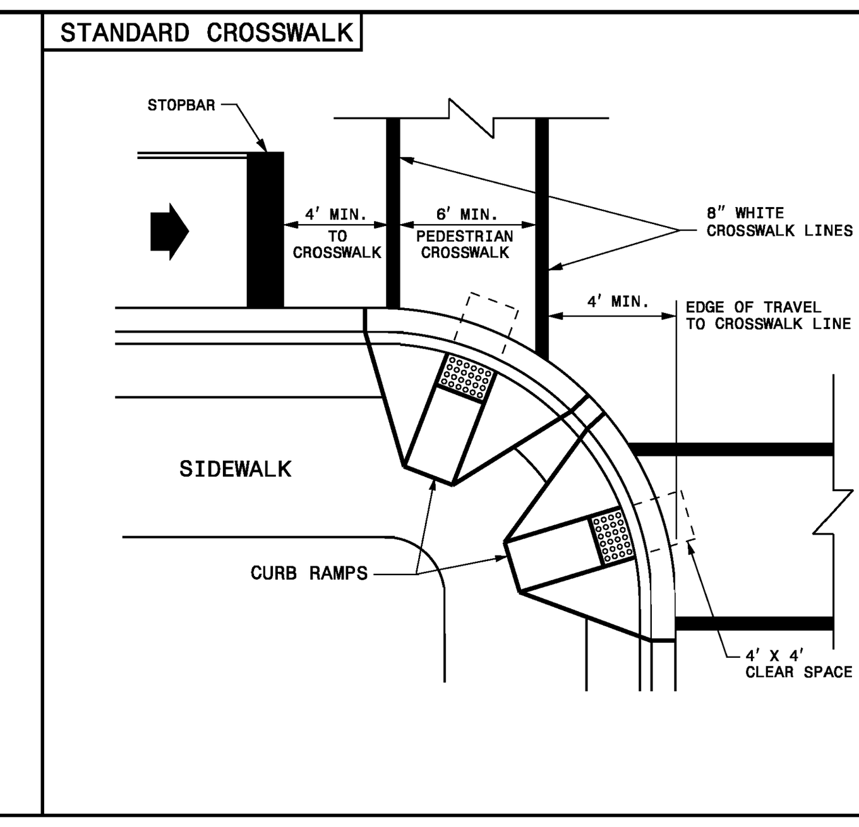
1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** PEDESTRIAN CROSSWALKS

HI-VISIBILITY CROSSWALK



STANDARD CROSSWALK



1- THE MINIMUM WIDTH OF STANDARD CROSSWALKS IS 6 FEET. THE MINIMUM WIDTH OF HI-VISIBILITY CROSSWALKS IS 10 FEET.

2- SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.

3- BEYOND THE CURB FACE, A CLEAR SPACE OF 4' X 4' FEET MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE CROSSWALK.

4- PLACE STOP BARS A MINIMUM OF 4 FEET FROM NEAREST CROSSWALK LINE. STOP BARS AT SIGNALIZED INTERSECTIONS SHOULD BE COORDINATED WITH THE SIGNAL DESIGN SECTION OR AS DIRECTED BY THE ENGINEER.

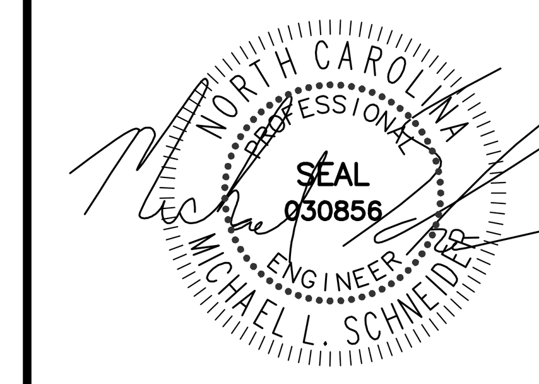
5- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS.

LEGEND
- DIRECTION OF TRAFFIC FLOW
- CURB RAMP WITH DETECTABLE WARNING DOMES

SHEET 1 OF 1
1205.07

PLD

PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843



02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: 02-14-24

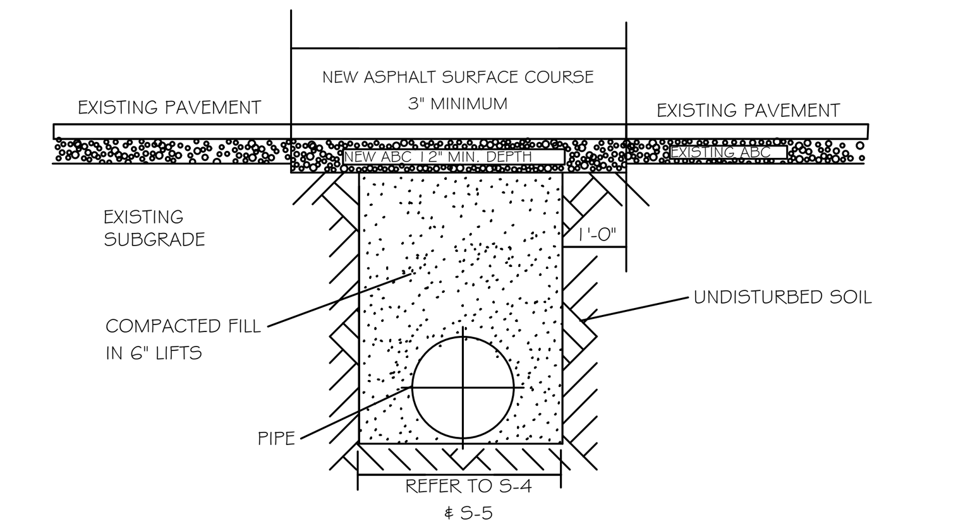
REVISIONS:

DRAWN BY: JET
CHECKED BY: MLS

PROJECT: FDCWP9

DETAILS

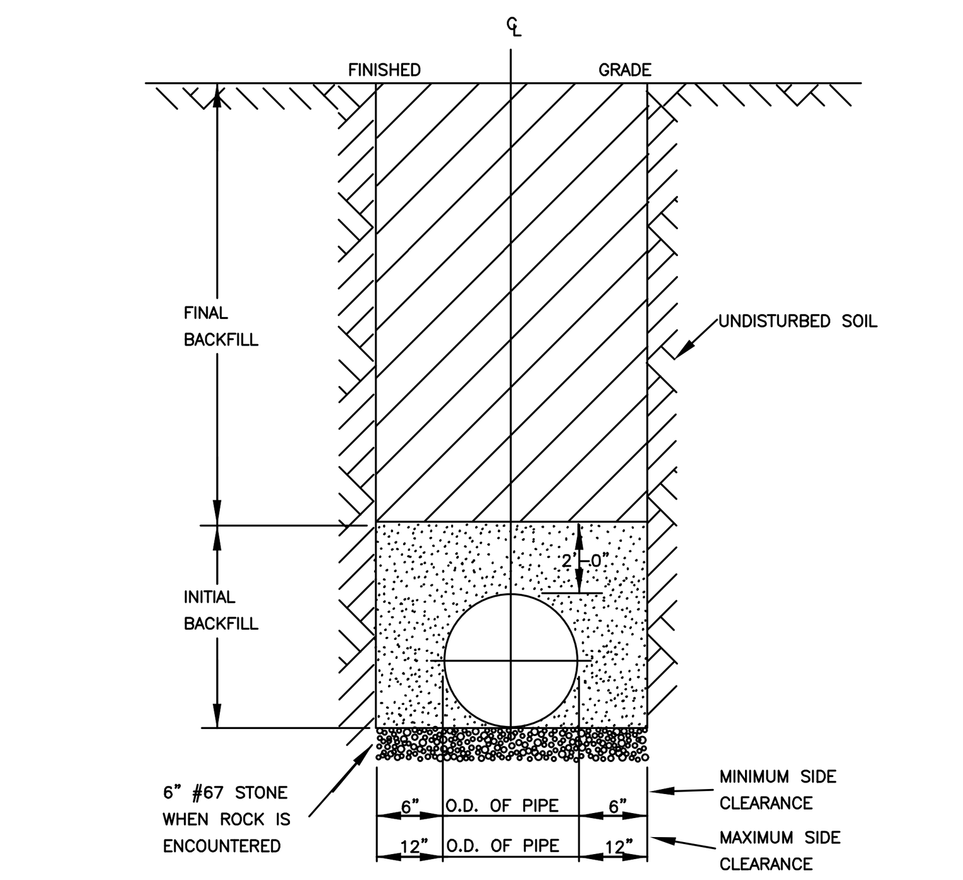
DWG. NO. SITE 24



NOTES:
1. IN NCDOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL TAKE PRECEDENCE.
2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAWCUT MACHINE.
3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
4. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.
6. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (S-4 & S-5) FOR ADDITIONAL DETAILS.
9. NO HAND PATCHING ALLOWED.
10. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD ASPHALT PAVEMENT PATCH DETAIL

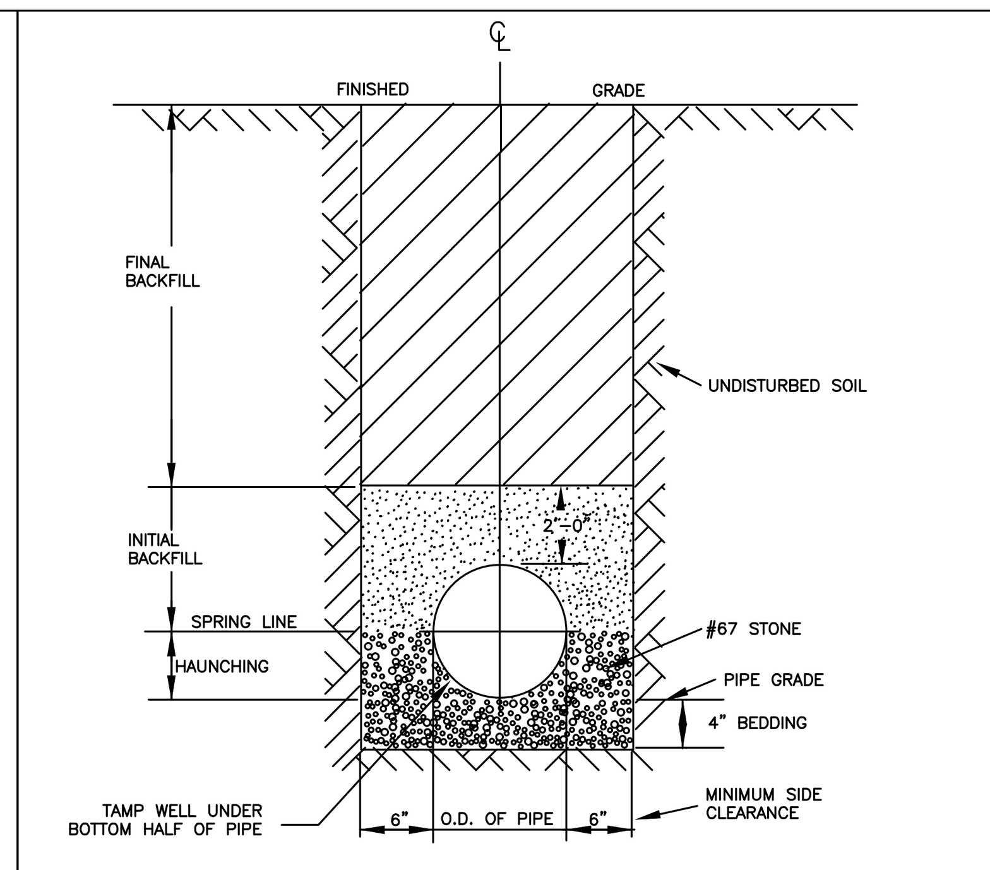
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-3	D.W.C.	11-1-99	A.B.B.	4-19-04
	RRH	3-30-00	J.P.S.	10-8-10



NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.
5. ACHIEVE 80% COMPACTION IN NON-TRAFFIC AREAS, AND 95% COMPACTION IN TRAFFIC AREAS.
6. IF IN EASEMENT 4" TOPSOIL, AND 12" CLEAN SELECT FILL MAY BE REQUIRED.
7. NO BOULDERS 8" IN DIAMETER OR GREATER ALLOWED IN FINAL BACKFILL.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-4	D.W.C.	9-3-99		
	RRH	3-30-00		

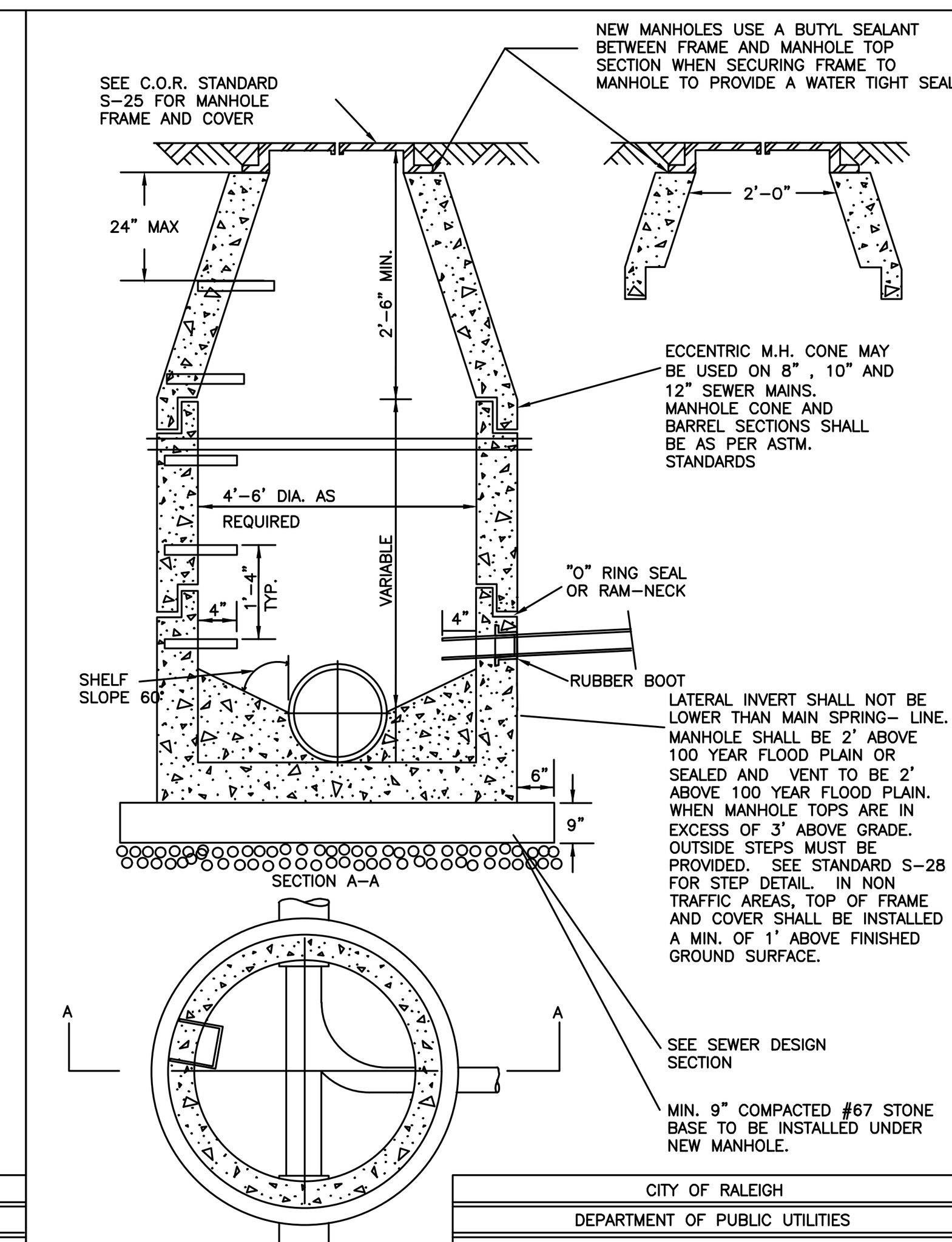


TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

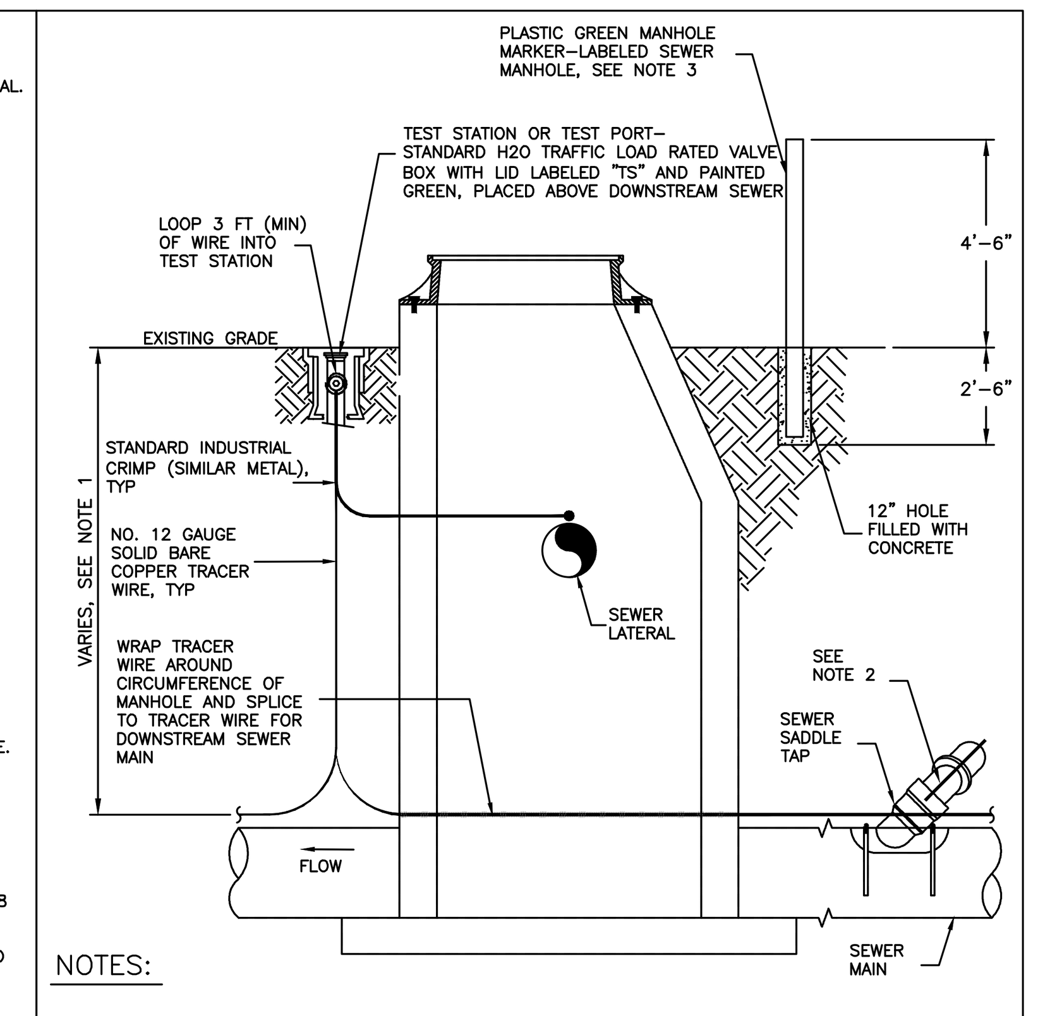
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-5	TO NOTES	3-1-87	D.W.C.	9-3-99
		7-2-82	RRH	3-30-00



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD PRECAST SANITARY SEWER MANHOLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-20	Y.C.A.	12-31-92	ABB	2-21-05
	RRH	3-30-00	D.H.L.	6-16-08

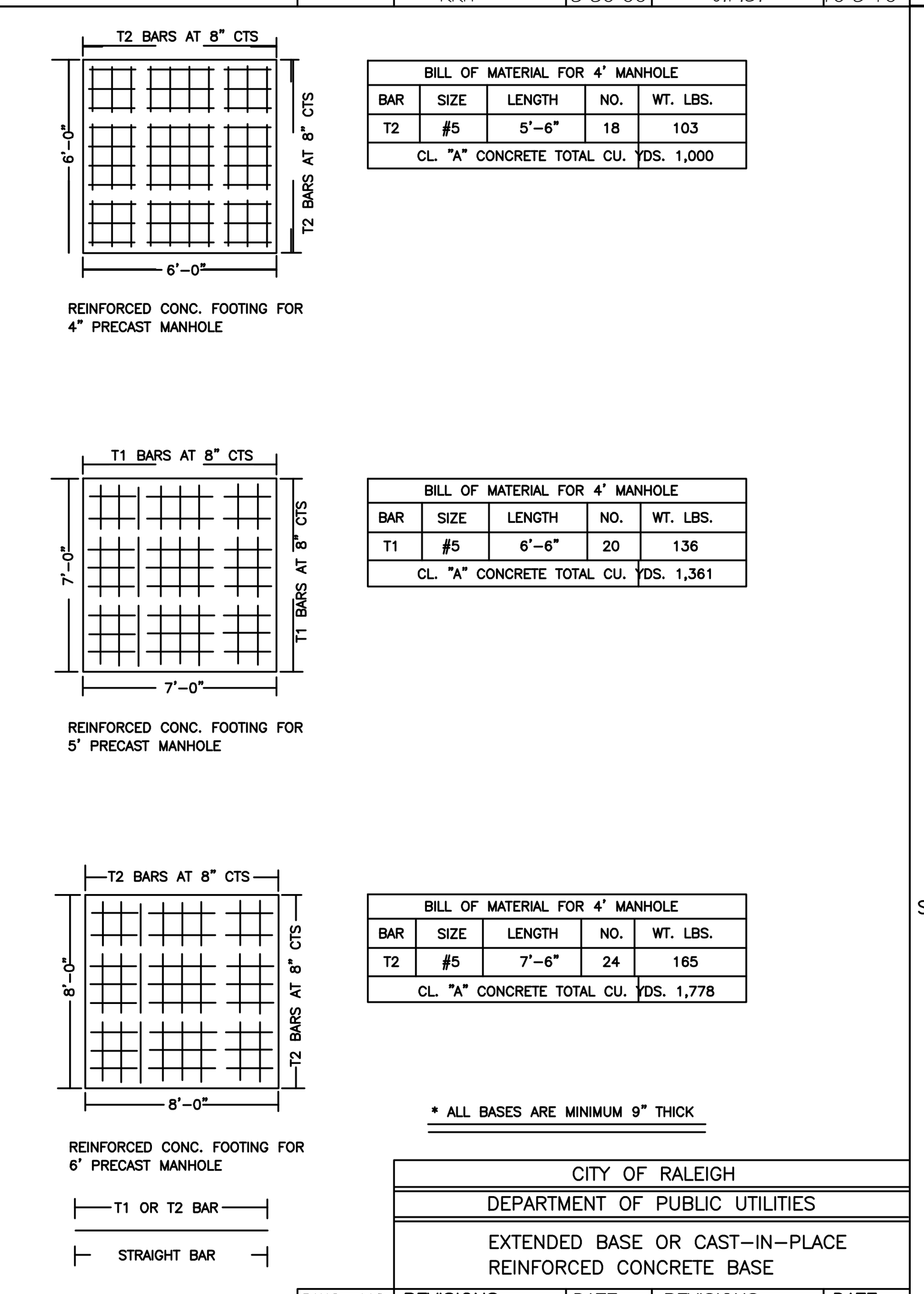


NOTES:

1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. FOR GRAVITY MAIN AND OR LATERAL INSTALLATIONS LESS THAN 8 FT, THE TRACING WIRE SHALL BE ATTACHED TO THE PIPE. TRACER WIRE SHALL BE LAID FLAT AND SECURELY AFFIXED TO THE PIPE AT 10 FOOT INTERVALS. FOR GRAVITY MAIN AND OR LATERAL INSTALLATION DEEPER THAN 8 FT, THE TRACING WIRE SHALL BE INSTALLED AT A DEPTH OF 7-8 FT. THE WIRE SHALL BE PROTECTED FROM DAMAGE DURING THE EXECUTION OF THE WORK. NO BREAKS OF CUTS IN THE TRACER WIRE SHALL BE PERMITTED.
2. WHERE LATERAL TAPS ARE MADE BY SERVICE SADDLES, THE TRACER WIRE SHALL NOT BE ALLOWED TO TO BE PLACED BETWEEN THE SADDLE AND MAIN.
3. MANHOLE MARKERS SHALL BE PLACED ADJACENT TO MANHOLES AT THE DISCRETION OF OWNER OR OWNER'S REPRESENTATIVE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-20A	WKD	09-14		



BILL OF MATERIAL FOR 4' MANHOLE

BAR	SIZE	LENGTH	NO.	WT. LBS.
T2	#5	5'-6"	18	103
CL. "A" CONCRETE TOTAL CU. YDS. 1,000				

BILL OF MATERIAL FOR 4' MANHOLE

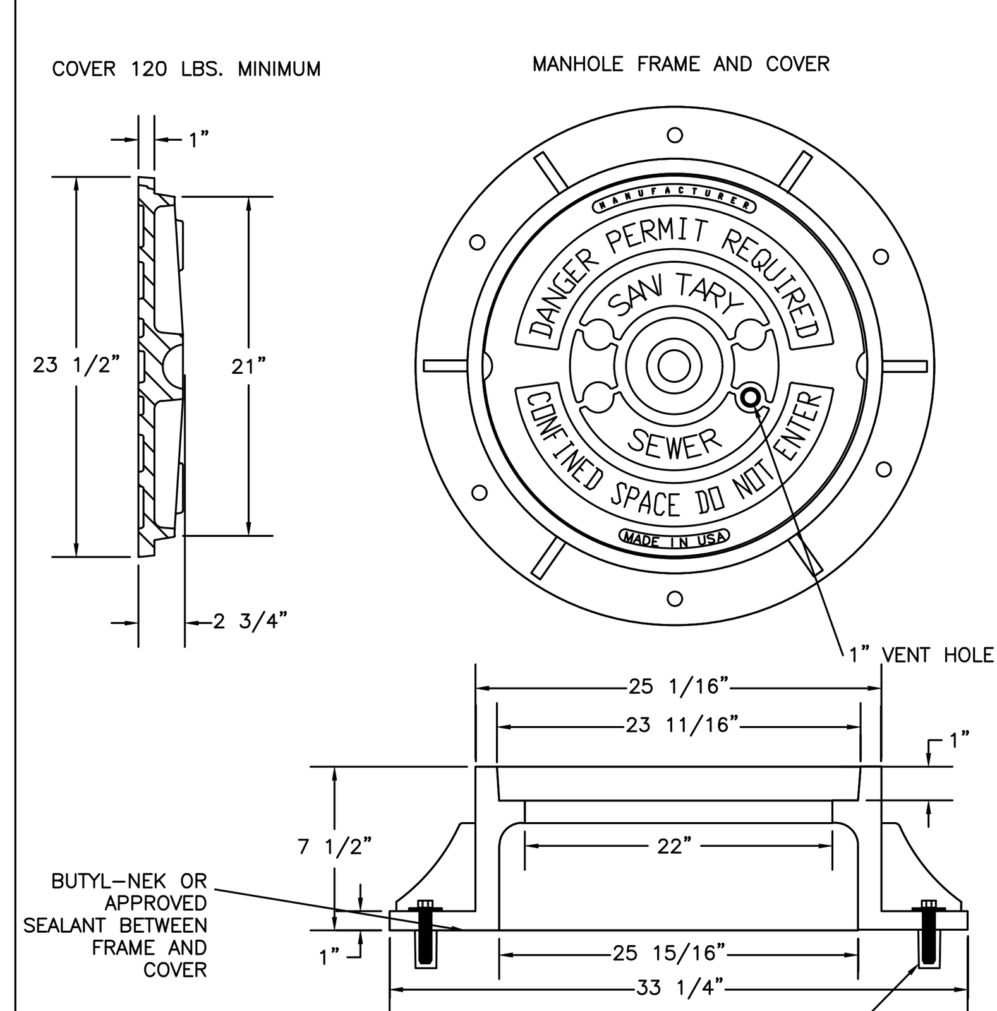
BAR	SIZE	LENGTH	NO.	WT. LBS.
T1	#5	6'-6"	20	136
CL. "A" CONCRETE TOTAL CU. YDS. 1,361				

BILL OF MATERIAL FOR 4' MANHOLE

BAR	SIZE	LENGTH	NO.	WT. LBS.
T2	#5	7'-6"	24	185
CL. "A" CONCRETE TOTAL CU. YDS. 1,778				

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
EXTENDED BASE OR CAST-IN-PLACE REINFORCED CONCRETE BASE

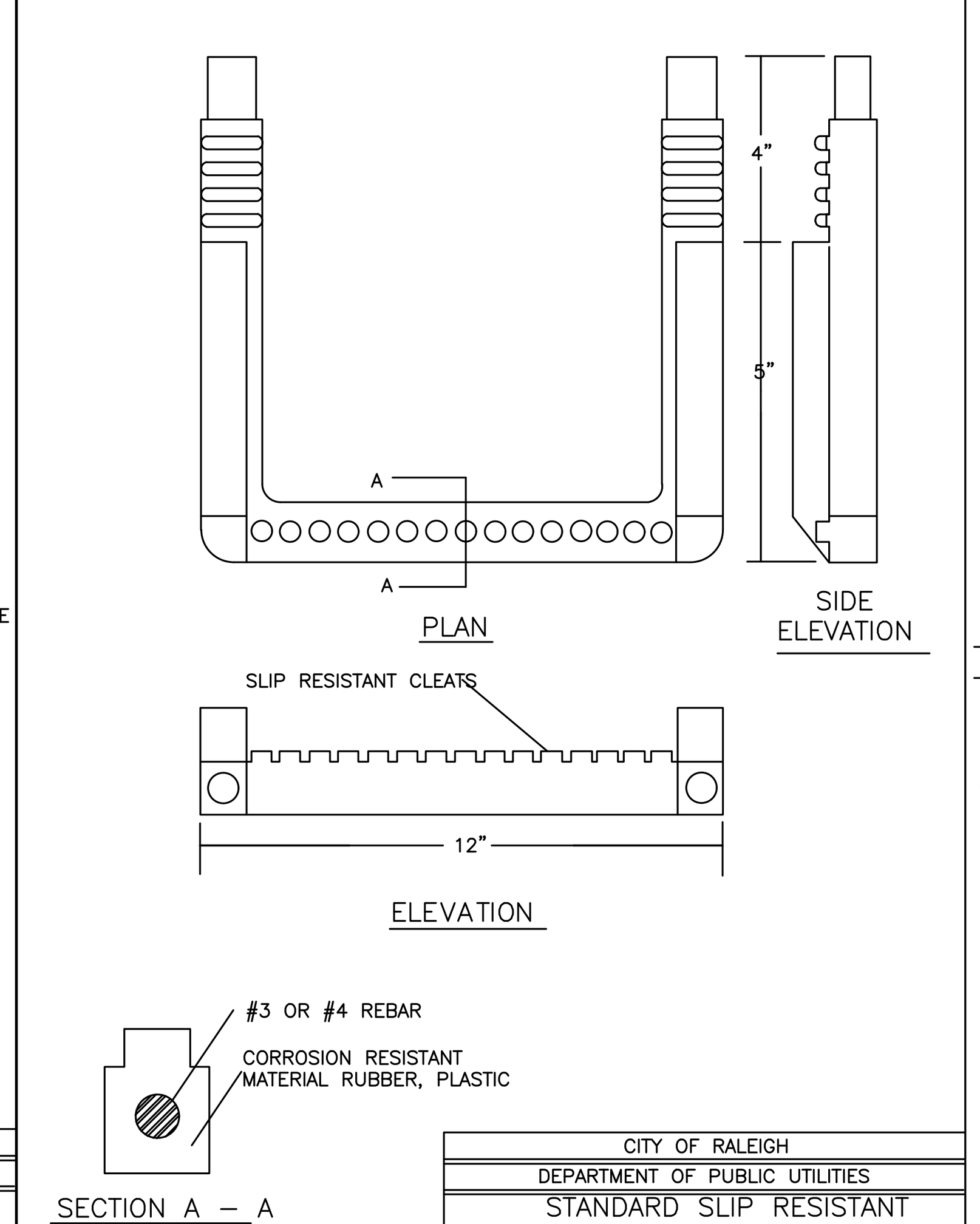
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-21		3-1-87	ABB	2-9-05
	RRH	3-30-00		



NOTES:
1) ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
2) FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN PUBLIC ROW AND 160 LBS. WITHIN EASEMENTS.
3) COVER SHALL WEIGH A MIN. OF 120 LBS.
4) ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE BOLTED TO THE CONE SECTION OR RING WITH A MINIMUM OF 4 BOLTS PER FRAME.

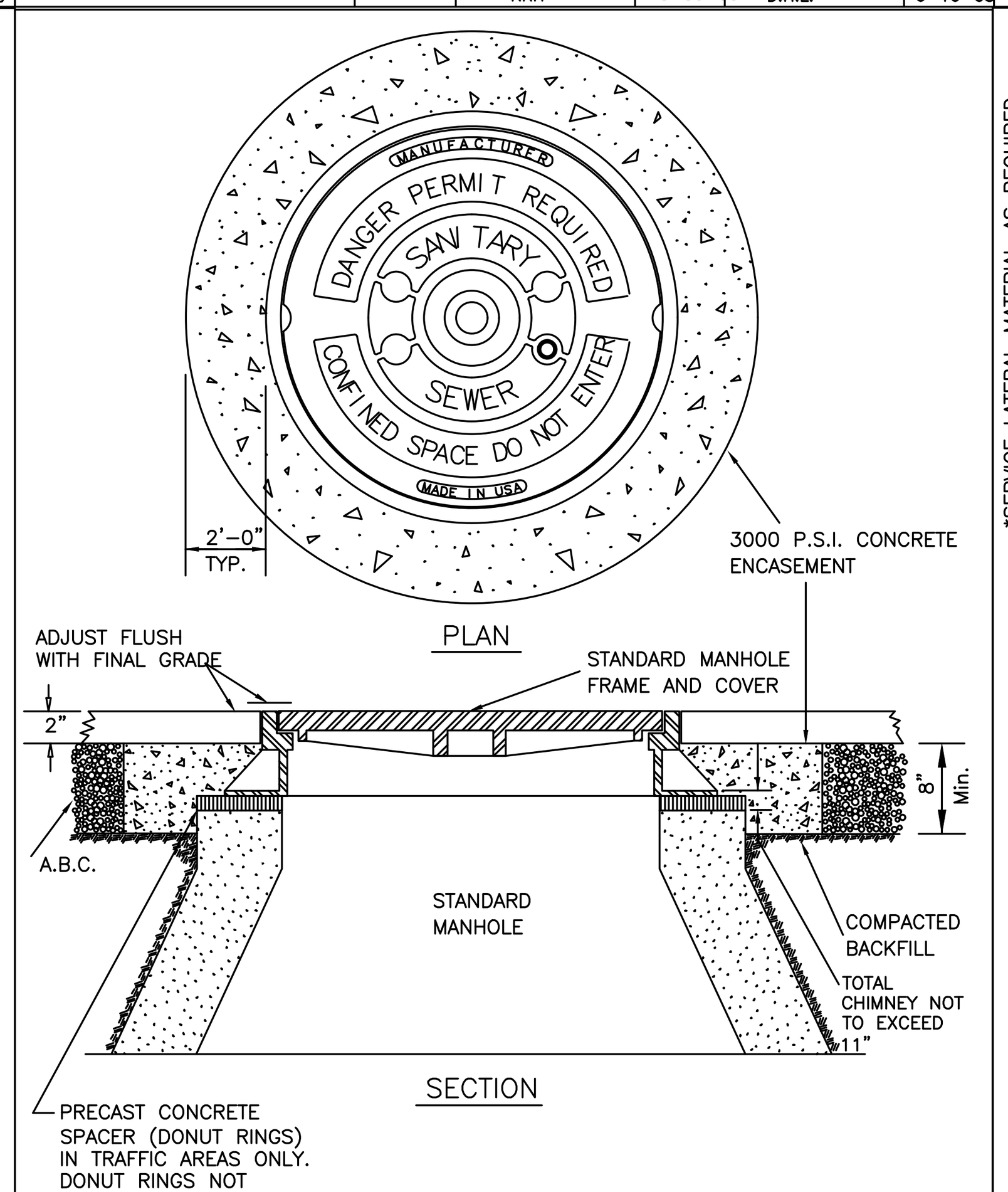
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD MANHOLE COVER

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-25		3-1-87	A.B.B.	2-9-05
		3-30-00	D.H.L.	6-18-08



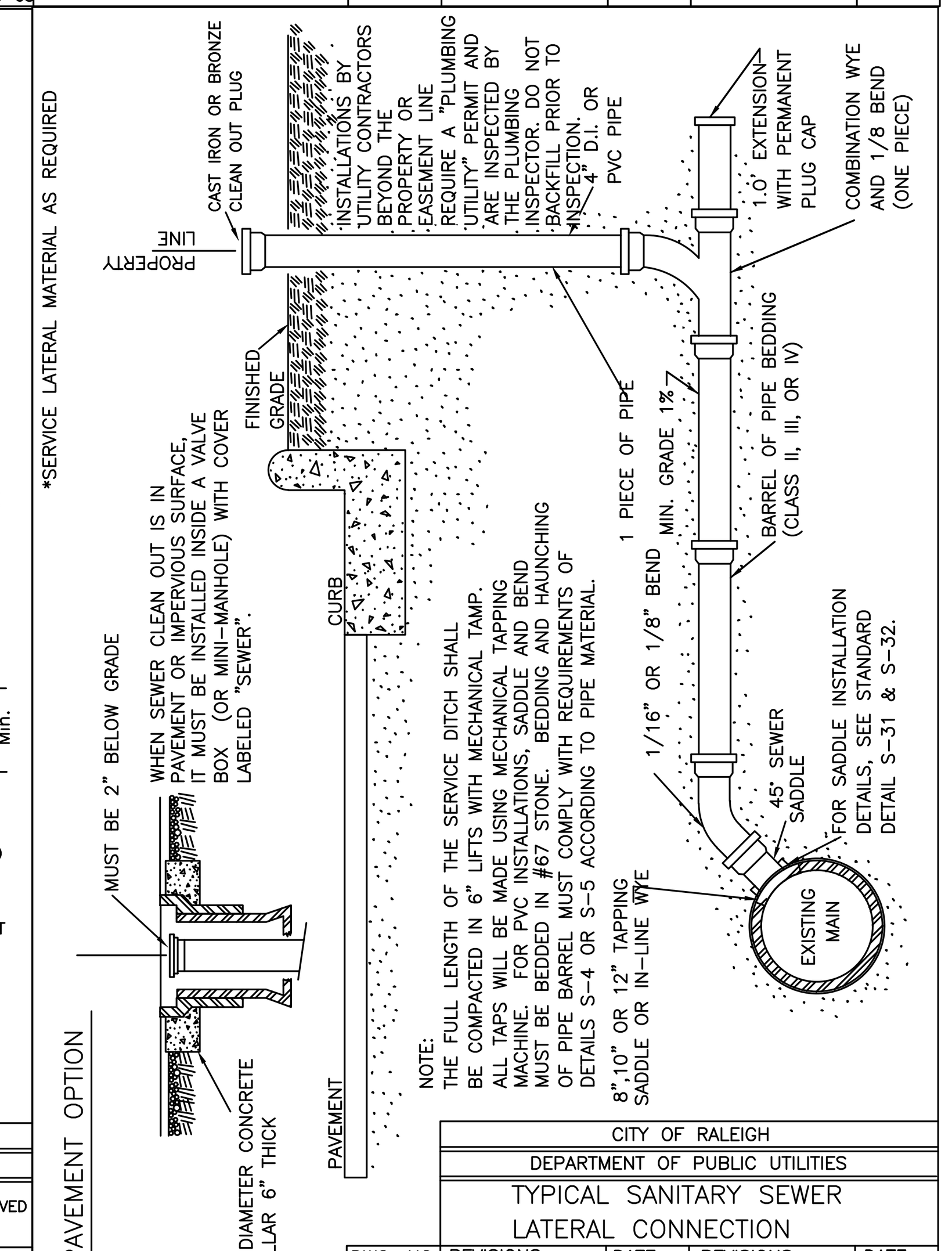
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD SLIP RESISTANT MANHOLE STEP DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-28	RRH	3-30-00		



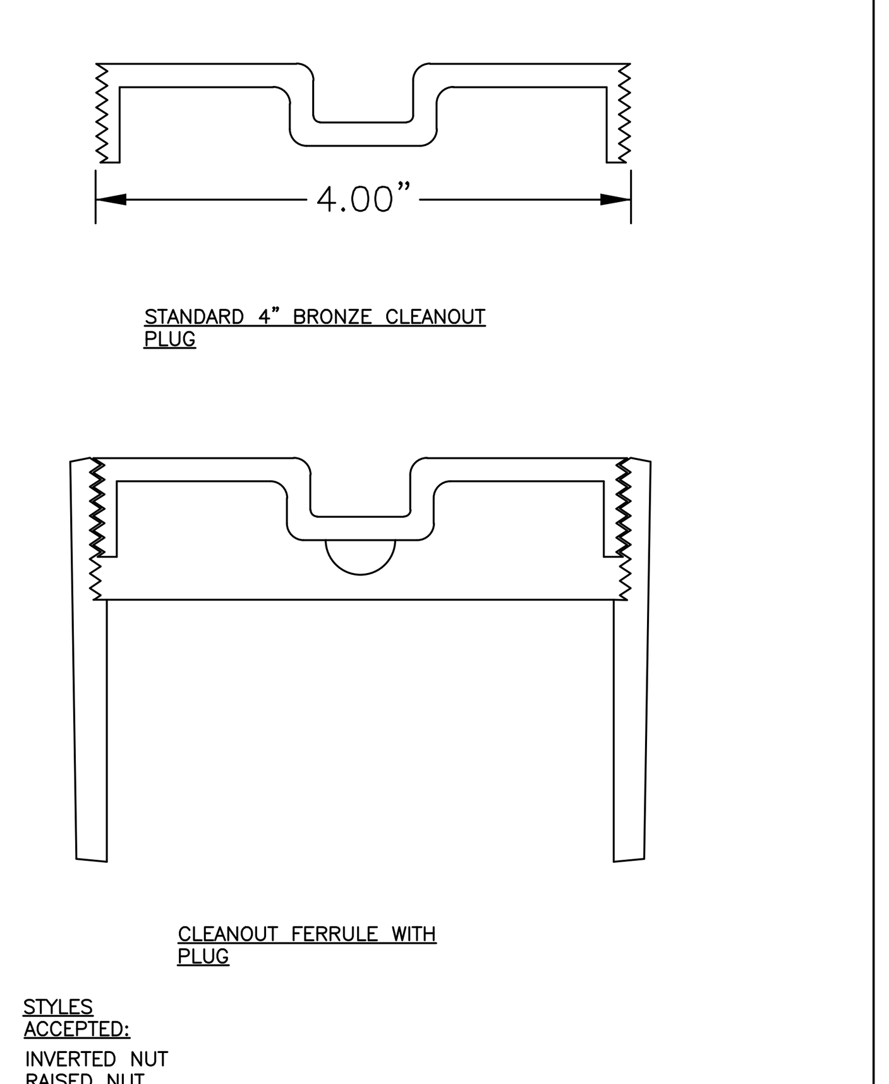
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD MANHOLE FRAME AND COVER DETAIL WITHIN PAVED SURFACES

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-29	Y.C.A.	2-31-91	ABB	9-20-04
	RRH	3-30-00	DHL	11-29-07



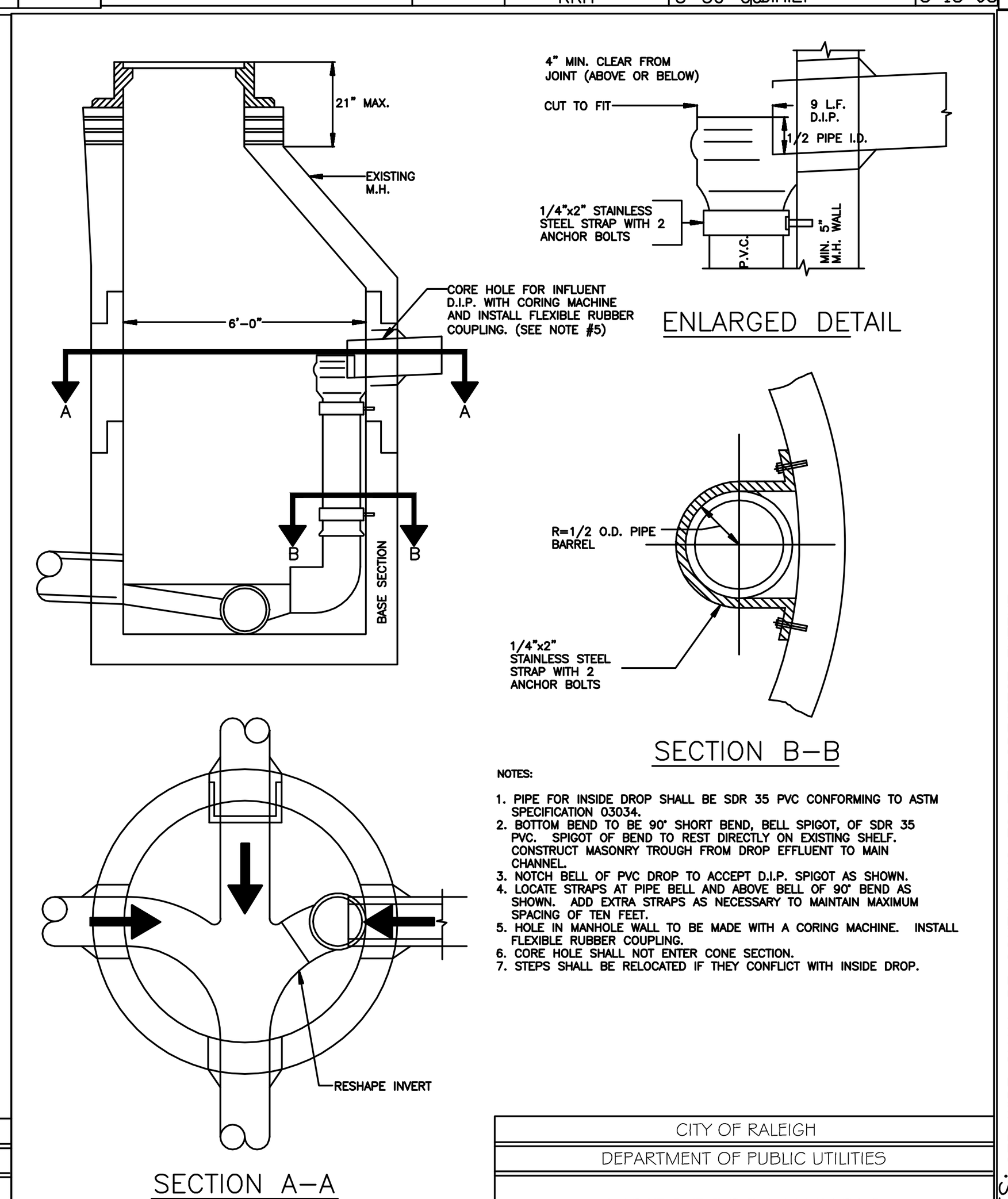
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TYPICAL SANITARY SEWER LATERAL CONNECTION

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30	Y.C.A.	6-92	A.B.B.	4-8-04
	RRH	3-30-00	D.H.L.	6-18-08



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
4" CLEANOUT PLUG

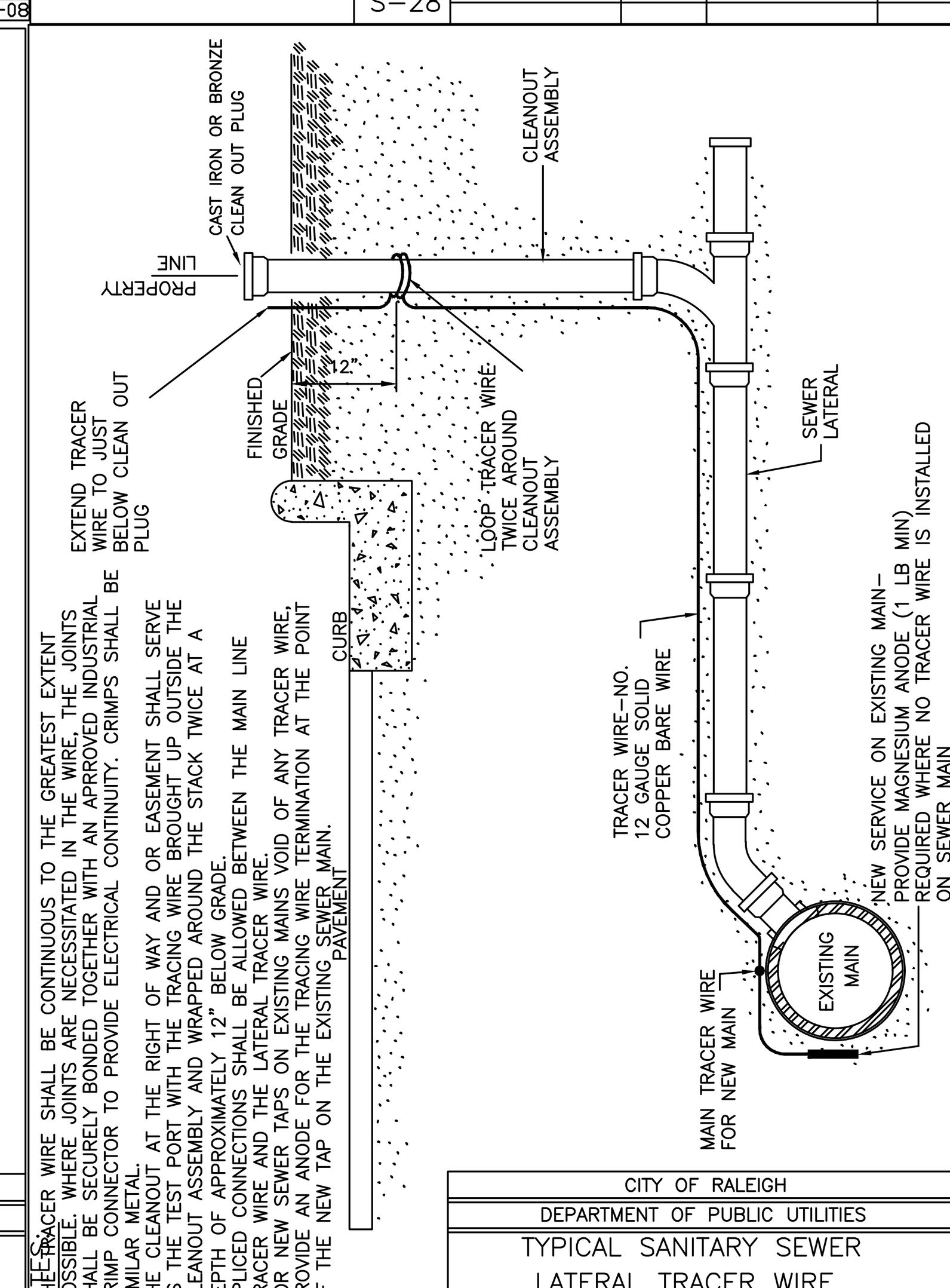
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-34	D.W.C.	3-1-87	RRH	3-30-00
		3-27-98		



NOTES:
1. PIPE FOR INSIDE DROP SHALL BE SDR 35 PVC CONFORMING TO ASTM SPECIFICATION 03034.
2. BOTTOM BEND TO BE 90° SHORT BEND, BELL SPIGOT, OF SDR 35 PVC. SPIGOT OF BEND TO REST DIRECTLY ON EXISTING SHELF. CONSTRUCT MASONRY TROUGH FROM DROP EFFLUENT TO MAIN CHANNEL.
3. NOTCH BELL OF PVC DROP TO ACCEPT D.I.P. SPIGOT AS SHOWN.
4. LOCATE STRAPS AT PIPE BELL AND ABOVE BELL OF 90° BEND AS SHOWN. ADD EXTRA STRAPS AS NECESSARY TO MAINTAIN MAXIMUM SPACING OF TEN FEET.
5. HOLE IN MANHOLE WALL TO BE MADE WITH A CORING MACHINE. INSTALL FLEXIBLE RUBBER COUPLING.
6. CORE HOLE SHALL NOT ENTER CONE SECTION.
7. STEPS SHALL BE RELOCATED IF THEY CONFLICT WITH INSIDE DROP.

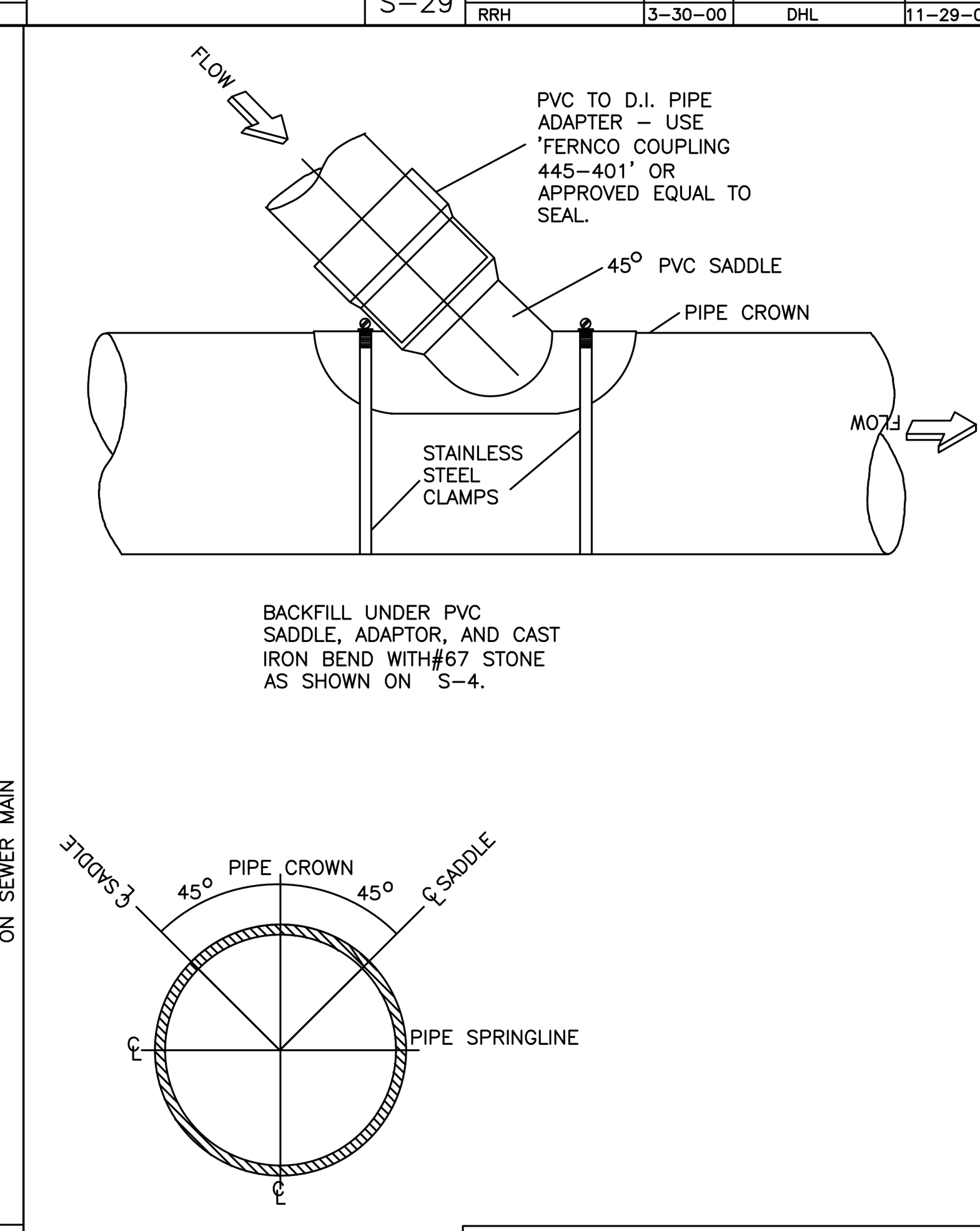
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
INSIDE DROP MANHOLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-53	MAB	11-4-13		



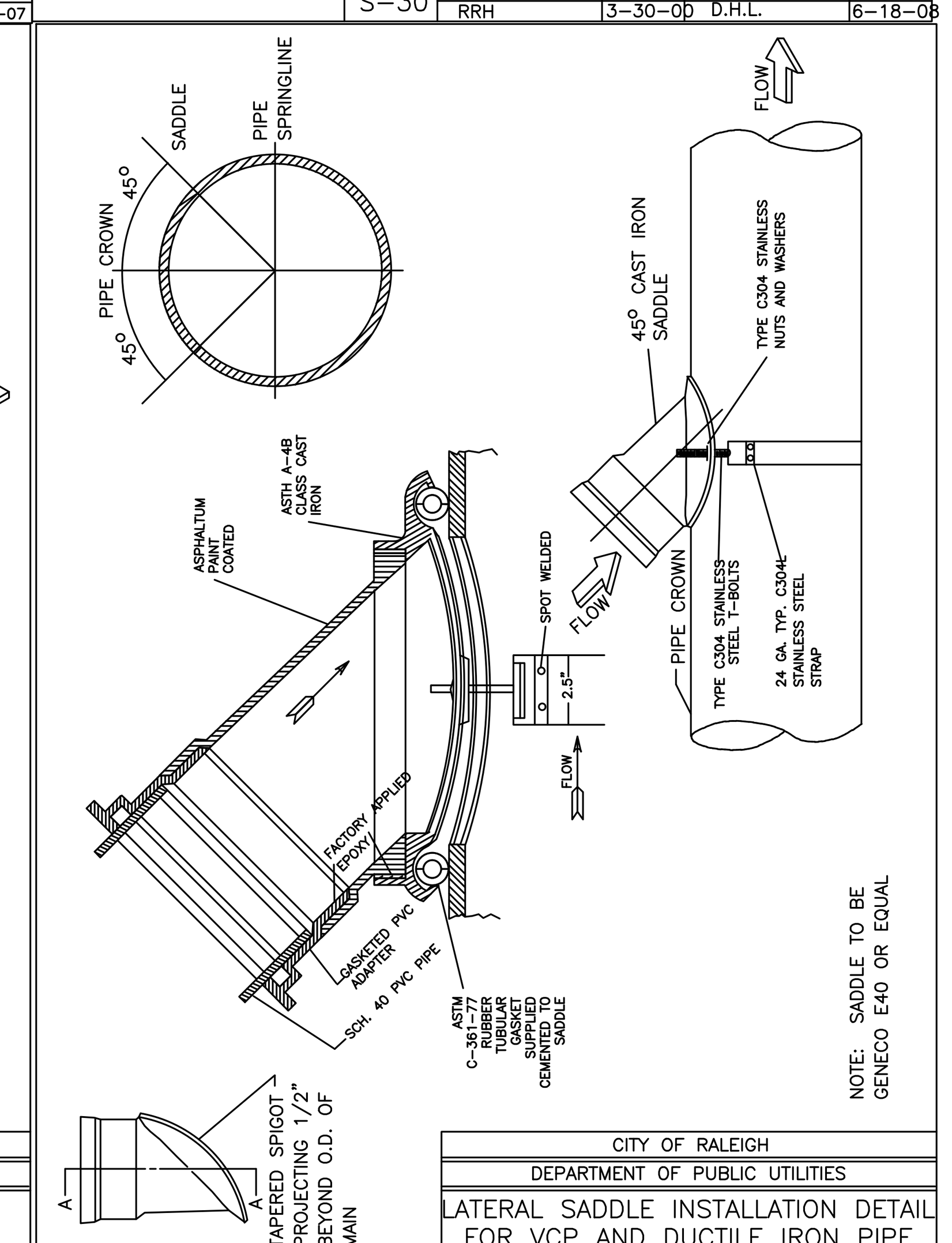
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TYPICAL SANITARY SEWER LATERAL TRACER WIRE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30A	WKD	9-14		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
LATERAL SADDLE INSTALLATION DETAIL FOR VCP PIPE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-31		3-1-87		
	RRH	3-30-00		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
LATERAL SADDLE INSTALLATION DETAIL FOR PVC AND DUCTILE IRON PIPE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-32	3-1-87		3-1-87	
	RRH	3-30-00		

INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

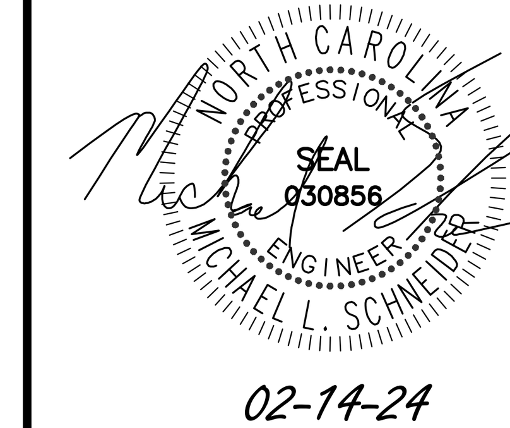
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

PUBLIC UTILITIES______________________

PLD

PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843



02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: 02-14-24

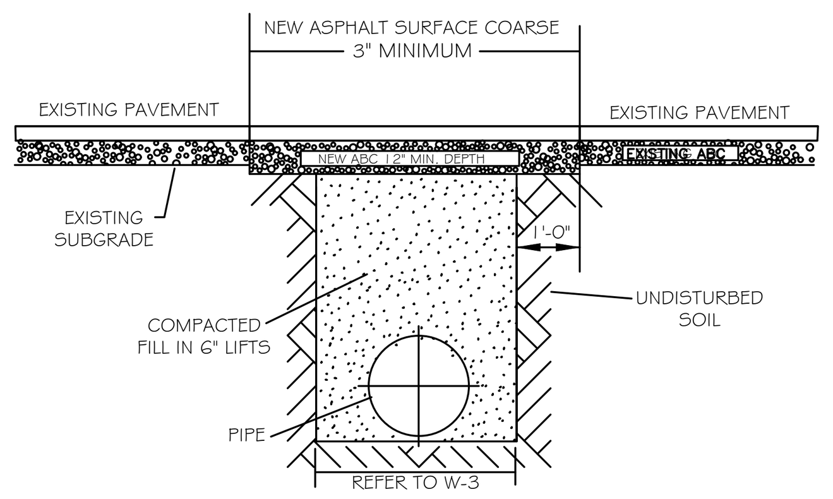
REVISIONS:

DRAWN BY: JET
CHECKED BY: MLS

PROJECT: FDCWP9

DETAILS

DWG. NO. SITE 25



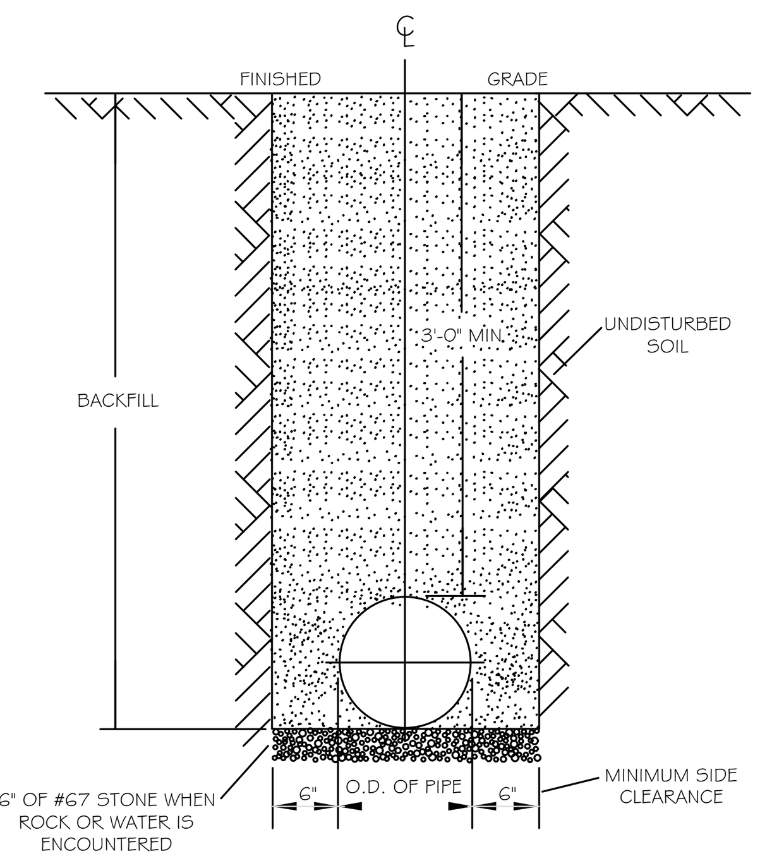
NOTES:

1. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAW CUT MACHINE.
2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
4. THE ENTIRE THICKNESS/ VERTICAL EDGE OF CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
7. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING, W-3. FOR ADDITIONAL DETAILS.
8. NO HAND PATCHING ALLOWED.
9. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD ASPHALT PAVEMENT PATCH DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-2	RRH	3-31-00	A.B.B.	4-16-04
	D.W.C.	11-1-99	J.P.S.	10-29-10

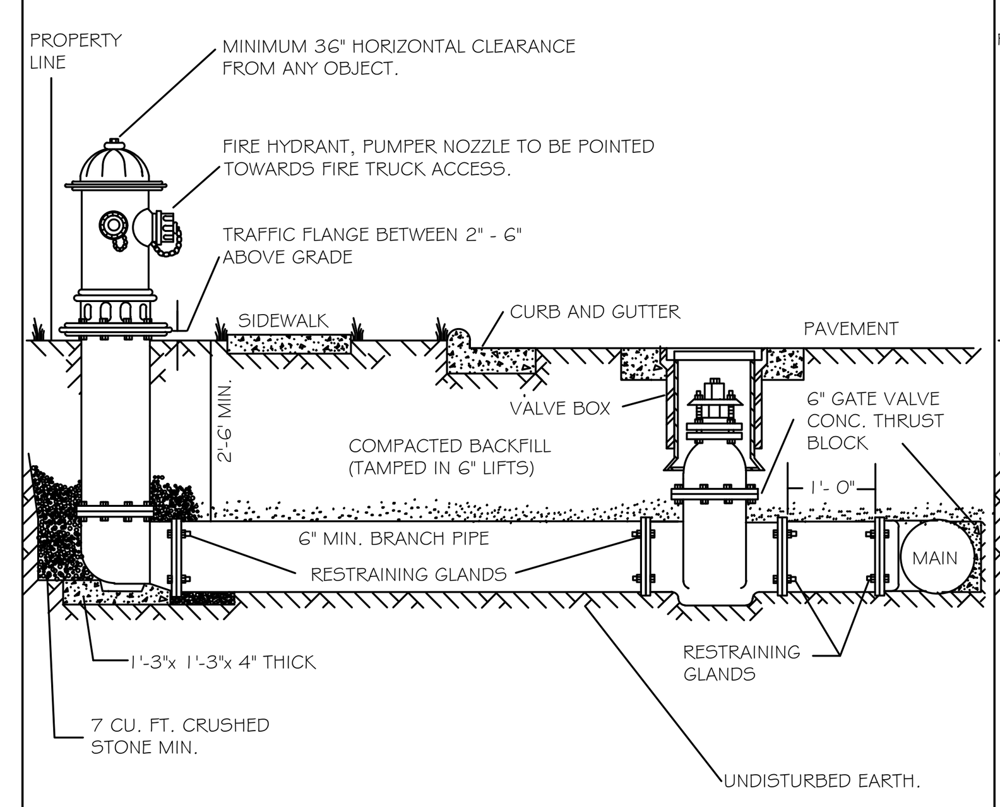


NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
5. ACHIEVE 95% COMPACTION IN BACKFILL.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-3	D.W.C.	9-3-99	ABB	2-15-05
	RRH	3-31-00	J.P.S.	10-29-10



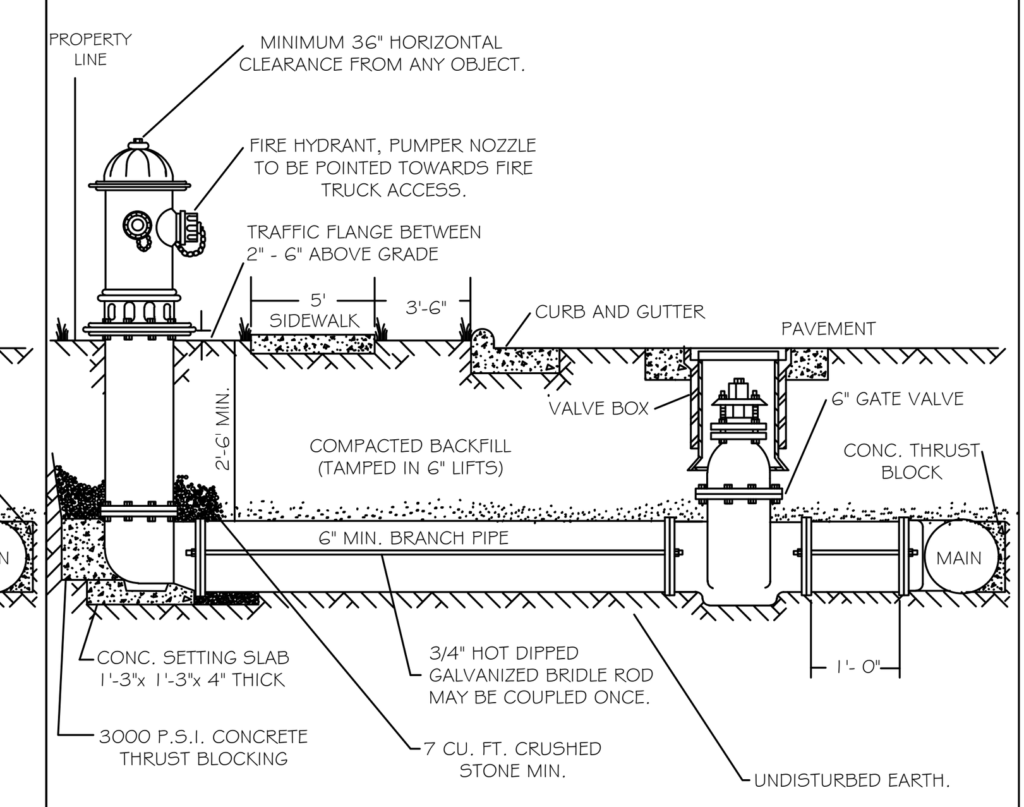
NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT
4. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION
RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.
FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD FIRE HYDRANT INSTALLATION DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4	ABB	4-6-04	PAP	2/17/09
	DHL	2/14/08		



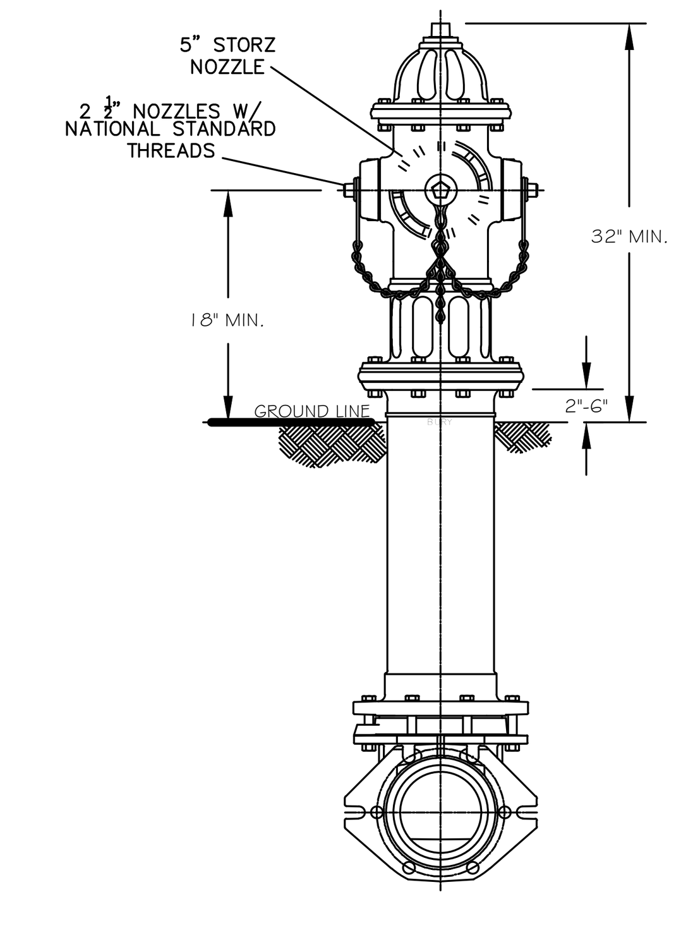
NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT
4. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION
RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.
FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD FIRE HYDRANT INSTALLATION DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4a	ABB	4-6-04		

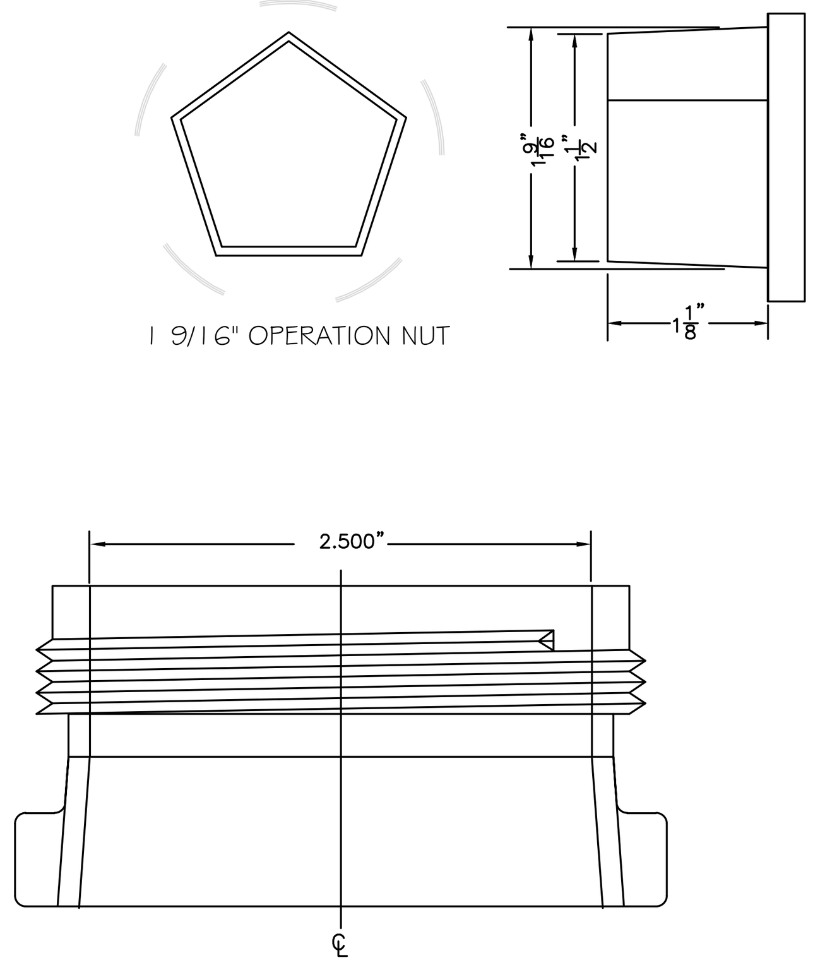


NOTES:
1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.
2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
RALEIGH, GARNER, KNIGHTDALE, ROLESVILLE, WAKE FOREST, WENDELL & ZEBULON

STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE

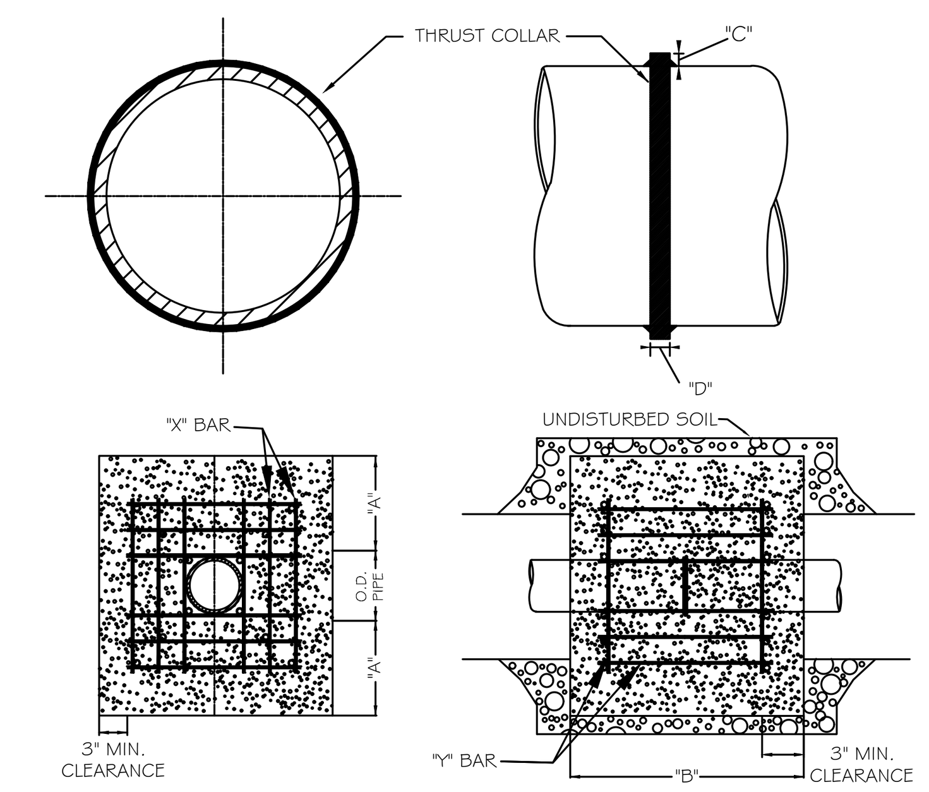
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-5	MAB	6-30-16		
	KAT	9-15-17		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

HYDRANT OPERATING NUT AND 2 1/2" OUTLET THREADS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-6	RRH	3-31-00	DHL	2-18-08
	A.B.B		J.P.S	11-1-10



REINFORCING REQUIREMENTS

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6" – 36"	#5	2'–2"+ O.D. PIPE	1.043 LBS/FT	1'–1"	1.1 LBS. EACH	X–24, Y–12
48" & greater	#6	3'–0"+ O.D. PIPE	1.502 LBS/FT	1'–3"	1.9 LBS. EACH	X–24, Y–12

THRUST COLLAR, AND THRUST SCHEDULE

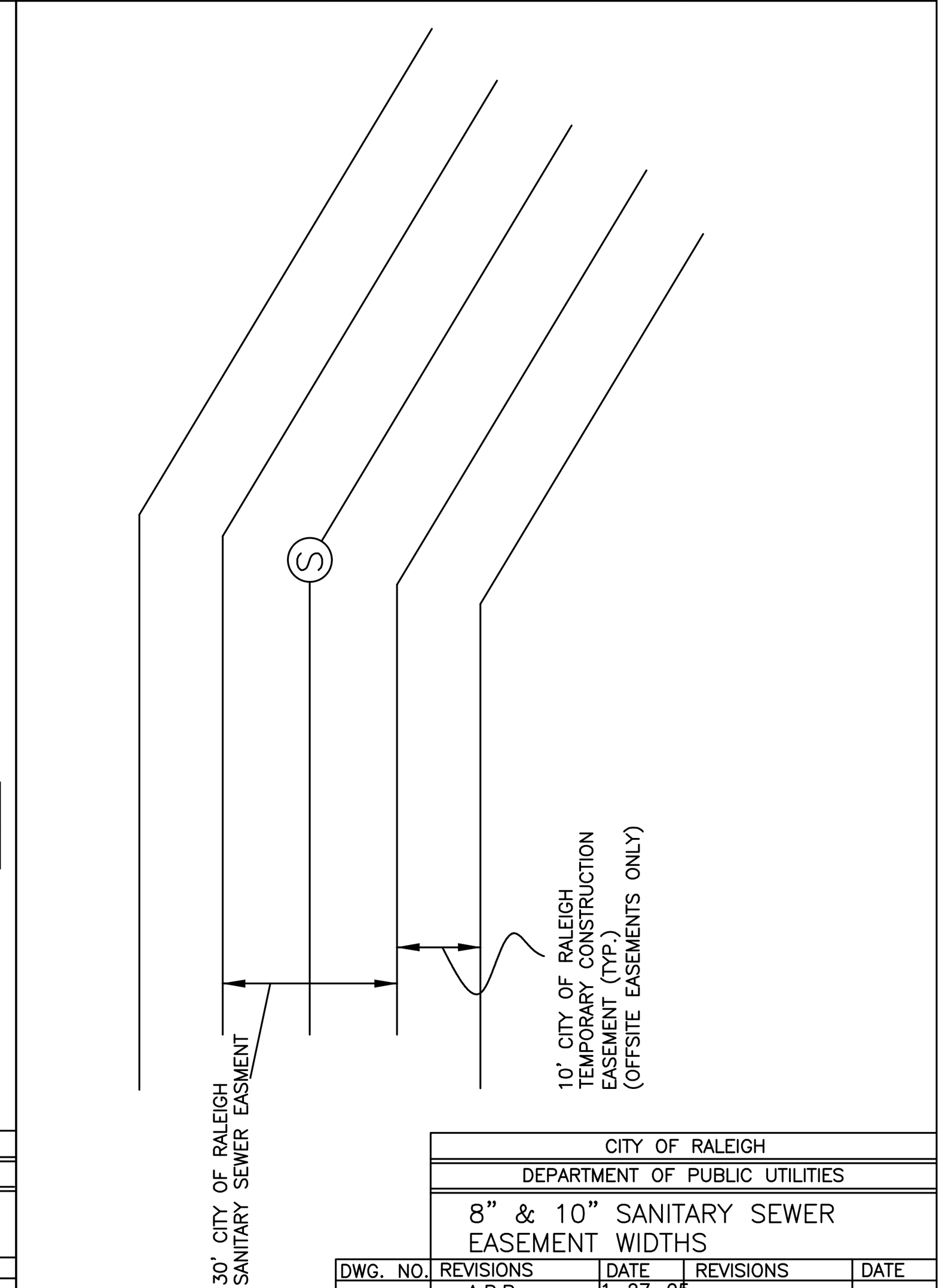
I.D. PIPE	"A"	"B"	"C"	"D"
6" – 16"	1'–4"	1'–7"	2"	3/8"
20" – 24"	1'–4"	1'–7"	3"	1/2"
30" – 36"	1'–4"	1'–7"	4"	5/8"
48" & greater	1'–8"	1'–9"	6"	7/8"

NOTES:
1. SEE STANDARD DETAIL W–9 FOR THRUST BLOCK LOCATIONS.
2. CONCRETE SHALL BE 3000 PSI AND TRANSIT MIXED.
3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON STANDARD DETAIL W–3.
5. BACKFILL TAMPED IN 6" LIFTS PER STANDARD DETAIL W–3.
6. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

THRUST BLOCKING DESIGN DATA FOR WATER MAINS

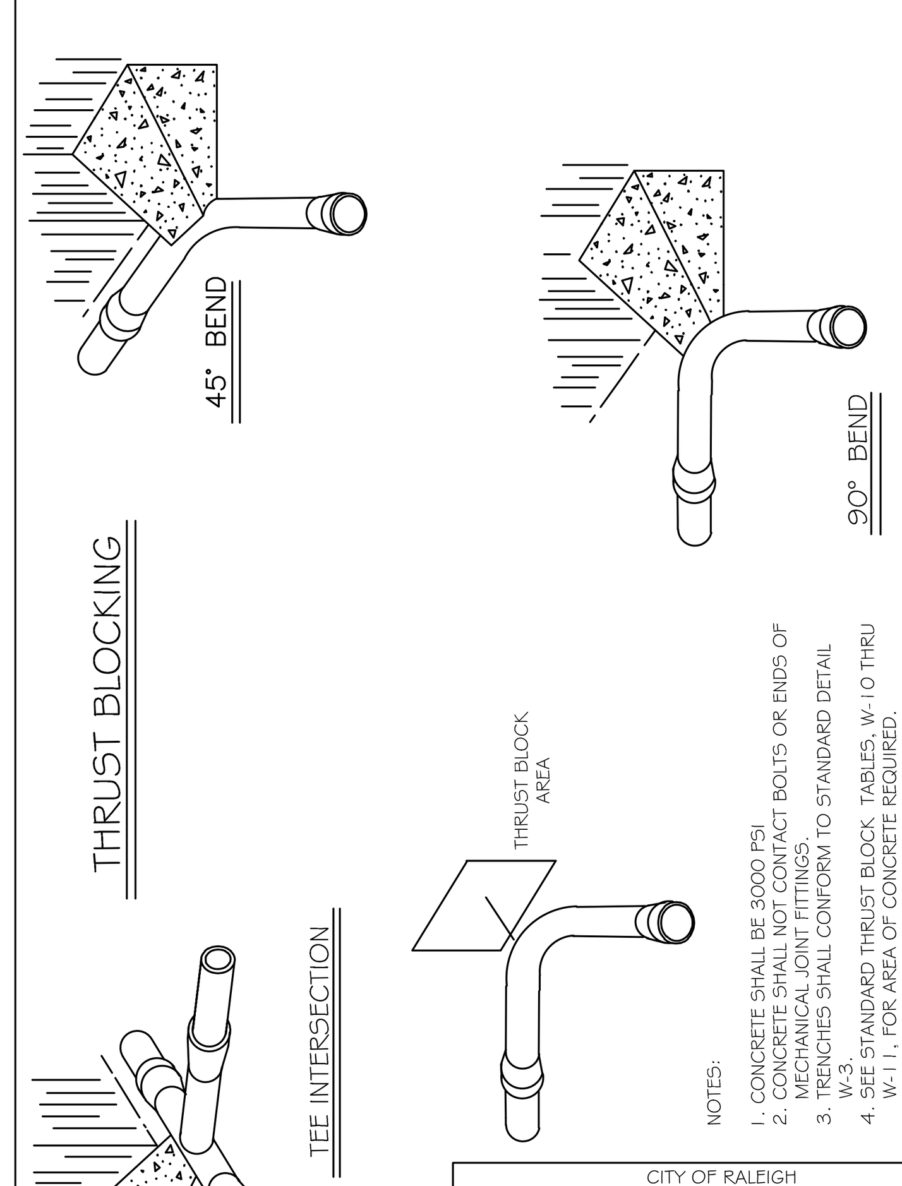
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W–7	RRH	1-21-00	J.P.S.	
	D.H.L.	6-18-08	11–1–10	



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

8" & 10" SANITARY SEWER EASEMENT WIDTHS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-43	A.B.B.	1-27-05		
	D.H.L.	6-18-08		



NOTES:
1. CONCRETE SHALL BE 3000 PSI.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. TRENCHES SHALL CONFORM TO STANDARD DETAIL W-3.
4. SEE STANDARD THRUST BLOCK TABLES, W-10 THRU W-11, FOR AREA OF CONCRETE REQUIRED.
5. ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD THRUST BLOCKING VIEWS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-9	D.W.C.	3-1-87	RRH	3-31-00
		9-7-99	D.H.L.	6-18-08

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
BASED ON TEST PRESSURE OF 200 P.S.I.

ALL AREAS GIVEN IN SQUARE FEET.

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4000 LBS/FT²	SOFT CLAY 2000 LBS/FT²	1600 LBS/FT² GRAVEL / COARSE SAND	8000 LBS/FT² DRY CLAY - ALWAYS DRY	SAND, COMPACT FIRM 8000 LBS/FT²	SAND –CLEAN DRY 4000 LBS/FT²	SOIL 1000 LBS/FT² QUICKSAND – VERY POOR	ROCK – POOR 10,000 LBS/FT²
6"									
11 1/4°	1,108	1	1	1	1	1	1	2	1
22 1/2°	2,207	1	2	2	1	1	1	3	1
45°	4,328	2	3	3	1	1	2	5	1
90°	7,996	2	4	5	1	1	2	8	1
PLUG	5,655	2	3	4	1	1	2	6	1
8"									
11 1/4°	1,970	1	1	2	1	1	1	2	1
22 1/2°	3,922	1	2	3	1	1	1	4	1
45°	7,694	2	4	5	1	1	2	8	1
90°	14,215	4	8	9	2	2	4	15	2
PLUG	10,053	3	5	6	2	2	3	10	1
12"									
11 1/4°	4,433	2	3	3	1	1	2	5	1
22 1/2°	8,826	3	5	6	2	2	3	9	1
45°	17,312	5	9	11	3	3	5	18	2
90°	31,983	8	16	19	4	4	8	32	4
PLUG	22,619	6	12	14	3	3	6	23	3
16"									
11 1/4°	7,881	2	4	5	1	1	2	8	1
22 1/2°	15,691	4	8	10	2	2	4	16	2
45°	30,779	8	16	19	4	4	8	31	4
90°	56,861	15	29	35	8	8	15	57	6
PLUG	40,213	10	21	25	5	5	10	41	5

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" - 90 BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

THRUST BLOCKING DESIGN QUANTITY TABLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-10	D.W.C.	6-23-99		

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
BASED ON TEST PRESSURE OF 200 P.S.I.

ALL AREAS GIVEN IN SQUARE FEET.

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4000 LBS/FT²	SOFT CLAY 2000 LBS/FT²	GRAVEL/COARSE SAND 1600LBS/FT²	8000 LBS/FT² DRY CLAY - ALWAYS DRY	SAND, COMPACT FIRM 8000 LBS/FT²	SAND -CLEAN DRY 4000 LBS/FT²	SOIL 1000 LBS/FT² QUICKSAND - VERY POOR	ROCK - POOR 10,000 LBS/FT²
24"									
11 1/4°	17,734	5	9	11	3	3	5	18	2
22 1/2°	35,305	9	18	22	5	5	9	36	4
45°	69,252	18	35	42	9	9	18	70	7
90°	127,936	32	64	77	16	16	32	128	13
PLUG	90,478	23	46	55	12	12	23	91	10
30"									
11 1/4°	27,709	7	14	17	4	4	7	2	3
22 1/2°	55,163	14	28	34	7	7	14	56	6
45°	108,206	28	55	65	14	14	28	109	11
90°	199,900	50	100	120	25	25	50	200	20
PLUG	141,372	36	71	85	18	18	36	142	15
36"									
11 1/4°	39,901	10	20	24	5	5	10	40	4
22 1/2°	79,439	20	40	48	10	10	20	30	8
45°	155,816	39	78	94	20	20	39	156	16
90°	287,855	72	144	172	36	36	72	288	29
PLUG	203,575	51	102	122	26	26	51	204	21
48"									
11 1/4°	70,935	18	36	43	9	9	18	71	8
22 1/2°	141,218	36	71	85	18	18	36	142	15
45°	277,007	70	139	166	35	35	70	277	28
90°	511,742	128	256	320	64	64	128	512	52
PLUG	361,911	91	181	217	46	46	91	362	37

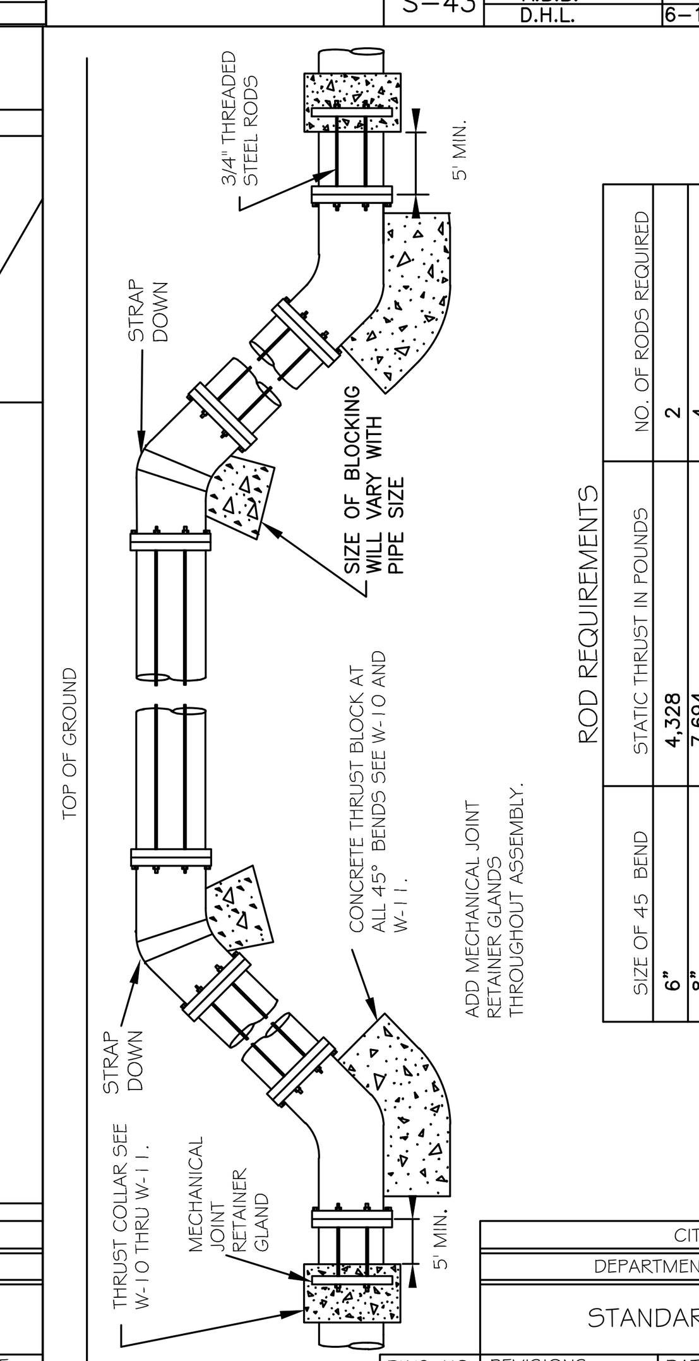
REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" - 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

THRUST BLOCKING DESIGN QUANTITY TABLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-11	D.W.C.	6-23-99		



ROD REQUIREMENTS

SIZE OF 45 BEND	STATIC THRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

GENERAL NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.
3. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
4. MUST USE DUCTILE IRON EYE BOLTS WHERE NECESSARY.
5. 3' MINIMUM COVER MUST BE MAINTAINED ON ALL WATER MAINS

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES

STANDARD VERTICAL BEND

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-12	ABB	4-6-04	J.P.S.	11-1-10
	D.H.L.	6-18-08		

INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

PUBLIC UTILITIES________________________

PLD
PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: 02-14-24

REVISIONS:

DRAWN BY: JET
CHECKED BY: MLS

PROJECT: FDCWP9

DETAILS

DWG. NO. SITE 26

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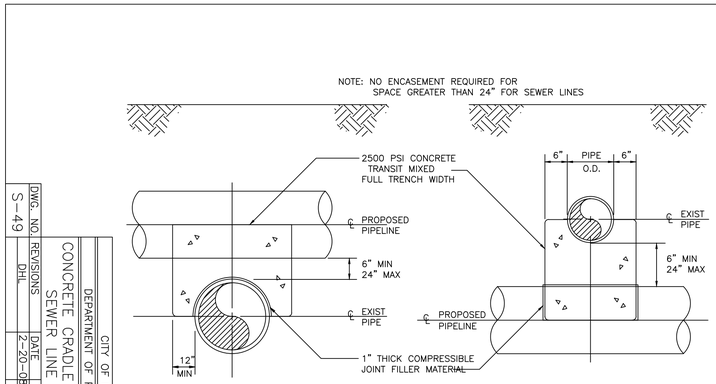
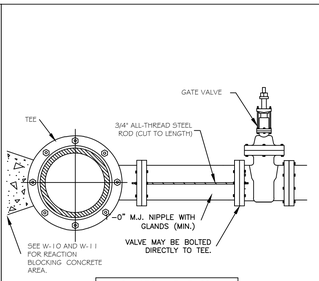


DWG. NO.	REVISIONS	DATE
S-49	DHL	2-20-08

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
CONCRETE CRADLE PROTECTION FOR SEWER LINE CROSSINGS

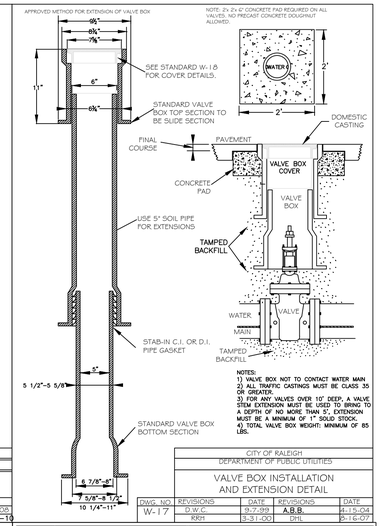


ROD REQUIREMENTS	
NO. OF RODS	BRANCH SIZE
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. SEE STANDARD THRUST BLOCK, TABLES W-10 AND W-11 FOR CONCRETE.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
4. THIS RODDING REQUIREMENT DOES NOT APPLY TO FIRE HYDRANTS.

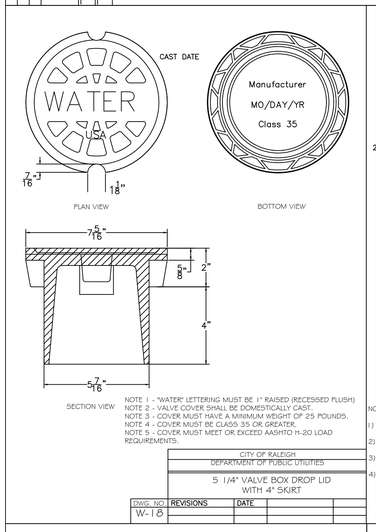
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"-24")

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-15	RRH	3-31-00	DHL	6-16-05
	A.B.B.	4-19-04	J.P.S.	11-1-10



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
VALVE BOX INSTALLATION AND EXTENSION DETAIL

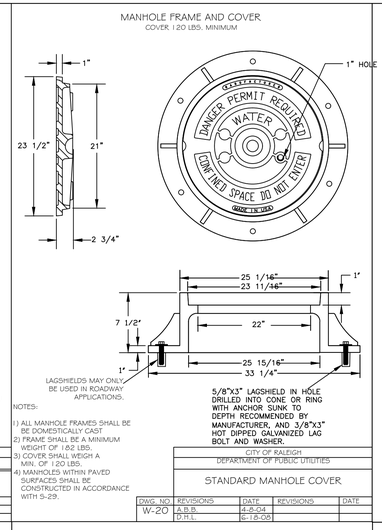
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-17	D.W.C.	9-7-99	A.B.B.	4-15-04
	RRH	3-31-00	DHL	6-16-07



NOTE 1 - "WATER" LETTERING MUST BE 1" RAISED (RECESSED FLUSH)
NOTE 2 - VALVE COVER SHALL BE DOMESTICALLY CAST.
NOTE 3 - COVER MUST HAVE A MINIMUM WEIGHT OF 25 POUNDS.
NOTE 4 - COVER MUST BE CLASS 35 OR GREATER.
NOTE 5 - COVER MUST MEET OR EXCEED AASHTO H-20 LOAD REQUIREMENTS.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
5 1/4" VALVE BOX DROP LID WITH 4" SKIRT

DWG. NO.	REVISIONS	DATE
W-18		



NOTES:
1) ALL MANHOLE FRAMES SHALL BE BE DOMESTICALLY CAST.
2) FRAME SHALL BE A MINIMUM WEIGHT OF 1.62 LBS.
3) COVER SHALL WEIGH A MIN. OF 120 LBS.
4) MANHOLES WITHIN PAVED SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH 5-29.

MAIN SIZE	FIXED PIPE SIZE	APPROVED BY PUBLIC UTILITIES DEPT.
12" & GREATER	6" MIN.	
6" - 12"		

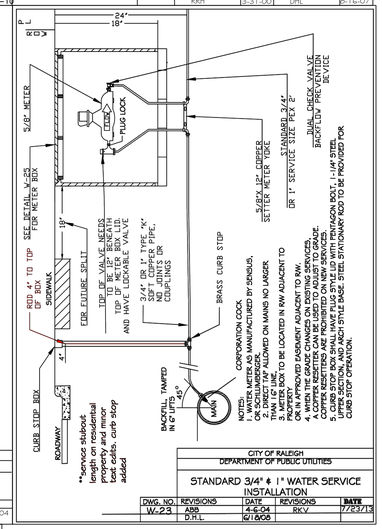
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD MANHOLE COVER

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-20	A.B.B.	4-8-04		
	D.H.L.	6-18-08		

FIXED PIPE SIZE	
MAIN SIZE	6" MIN.
12" & GREATER	APPROVED BY PUBLIC UTILITIES DEPT.
6" - 12"	

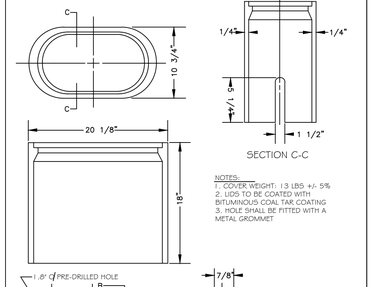
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TEMPORARY WATER MAIN BLOW OFF ASSEMBLY

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-21	D.W.C.	1-26-99	A.B.B.	4-12-04
	RRH	3-31-00		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD 3/4" & 1" WATER SERVICE INSTALLATION

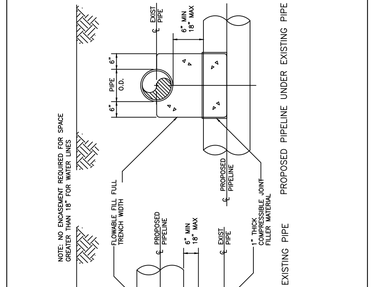
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-23	ABB	4-8-04	RKV	7/23/13
	D.H.L.	6/18/08		



NOTES:
1. COVER WEIGHT: 13 LBS +/- 5%
2. LIDS TO BE COATED WITH BITUMINOUS COAL TAR COATING
3. HOLE SHALL BE FITTED WITH A METAL GROMMET

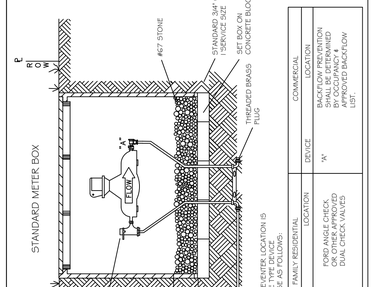
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
WATER METER BOX DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-25	D.W.C.	1-3-99	ABB	1-20-05
	RRH	3-31-00	J.P.S.	11-4-10



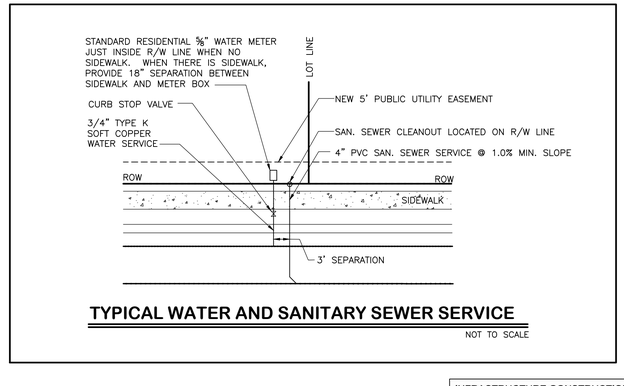
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
CONCRETE CRADLE PROTECTION FOR WATER LINE CROSSINGS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-41	DHL	2-20-08		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
ONE OR TWO FAMILY DWELLINGS BACKFLOW PREVENTION/ METER ASSEMBLY INSTALLATION

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-24	Y.C.A.	2-21-01	D.H.L.	6/18/08
	ADDED	6/18/08	J.P.S.	11/4/10



TYPICAL WATER AND SANITARY SEWER SERVICE

NOT TO SCALE

INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

PUBLIC UTILITIES_____

PLD

PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **02-14-24**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILS

DWG. NO. **SITE 27**

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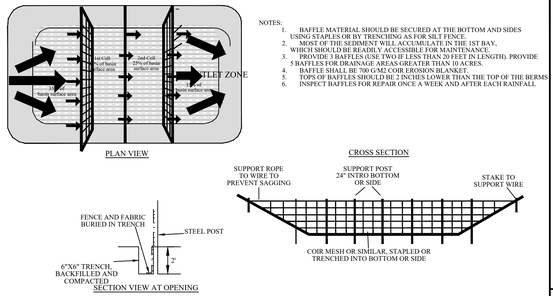
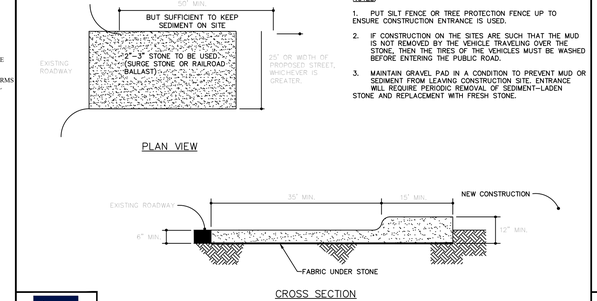


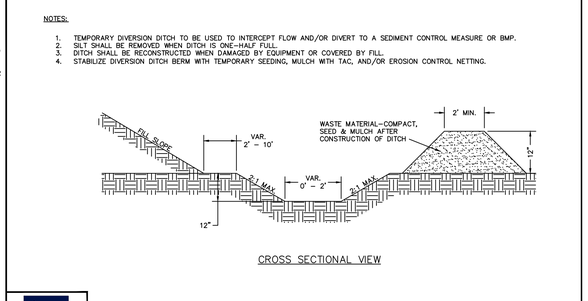
STANDARD BAFFLES DETAIL

EFFECTIVE: 01/31/08



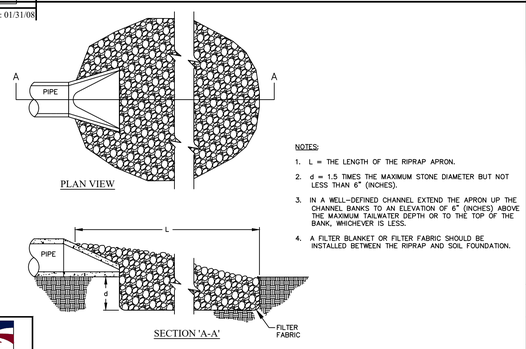
STANDARD CONSTRUCTION ENTRANCE

EFFECTIVE: 01/31/08



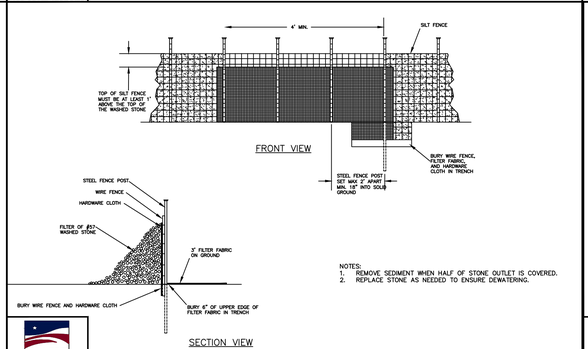
STANDARD TEMPORARY DIVERSION DITCH

EFFECTIVE: 01/31/08



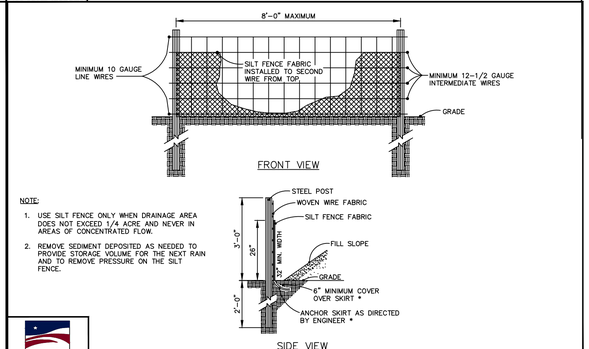
STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL

EFFECTIVE: 01/31/08



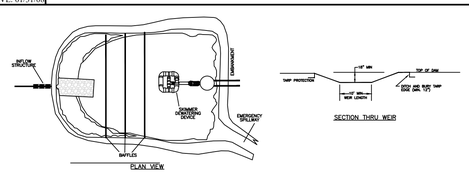
STANDARD SILT FENCE OUTLET

EFFECTIVE: 01/31/08



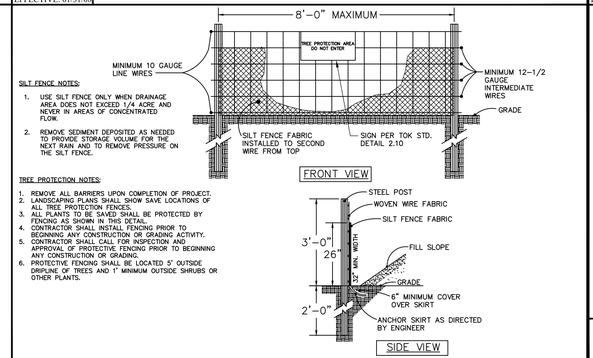
STANDARD TEMPORARY SILT FENCE

EFFECTIVE: 01/31/08



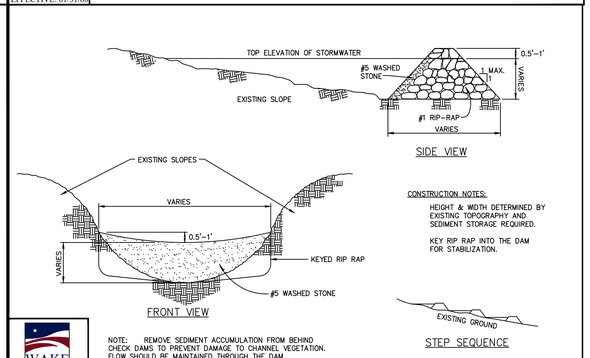
STANDARD SKIMMER ATTACHED TO PERMANENT RISER

EFFECTIVE: 01/31/08



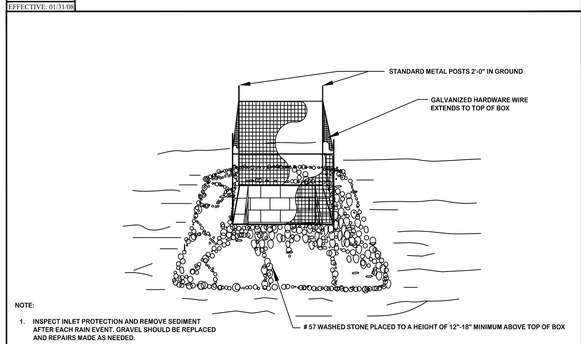
STANDARD COMBINATION TEMPORARY SILT FENCE/TREE PROTECTION FENCE

EFFECTIVE: 01/31/08



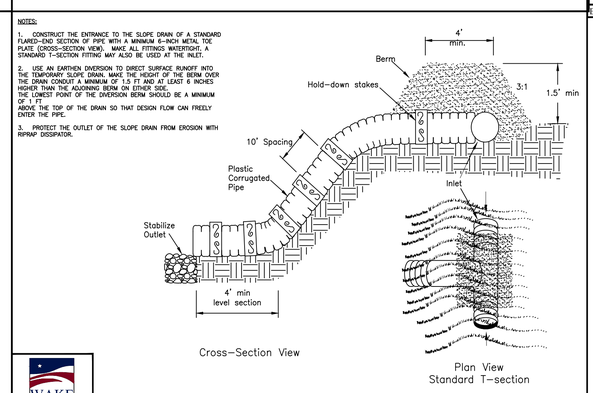
STANDARD CHECK DAM

EFFECTIVE: 01/31/08



STANDARD GRAVEL YARD INLET PROTECTION

EFFECTIVE: 01/31/08



STANDARD TEMPORARY SLOPE DRAIN

EFFECTIVE: 01/31/08

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1)
NCDENR/Division of Water Quality

NEW STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

Seedbed Preparation:

1. Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
2. Rip the entire area to six inches deep.
3. Remove all loose rock, roots and other obstructions, leaving surface reasonably smooth and uniform.
4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below).
5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
7. Mulch immediately after seeding and anchor mulch.
8. Inspect all seeded areas and make necessary repairs or reseedings within the planting season, if possible. If stand should be more than 60% damaged, re-establish following the original lime, fertilizer and seeding rates.
9. Consult S&EC Environmental Engineers on maintenance treatment and fertilization after permanent cover is established.

Mixture

Agricultural Limestone	2 tons/acre (3 tons/acre in clay soils)
Fertilizer	1,000 lbs/acre – 10-10-10
Superphosphate	500 lbs/acre – 20% analysis
Mulch	2 tons/acre – small grain straw
Anchor	Asphalt emulsion at 300 gals/acre

Seding Schedule

For Shoulders, Side Ditches, Slopes (Max 3:1):

Date	Type	Planting Rate
Aug 15 –Nov 1	Tall Fescue	300 lbs/acre
Nov 1– Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1– Apr 15	Tall Fescue	300 lbs/acre
Apr 15– Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1– Aug 15	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids***	125 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)

For Shoulders, Side Ditches, Slopes (3:1 to 2:1):

Date	Type	Planting Rate
Mar 1– Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespedeza);
Mar 1– Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1– Jun 30	Or add Weeping Love grass	10 lbs/acre
Mar 1– Jun 30	Or add Hulled Common Bermudagrass	25 lbs/acre
Jun 1– Sept 1	Tall Fescue AND Browntop Mullet or Sorghum-Sudan Hybrids***	120 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Mullet); 30 lbs/acre (Sorghum-Sudan Hybrids)
Sept 1– Mar 1	Sericea Lespedeza (unhulled – unscarified) AND Tall Fescue	70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)
Nov 1– Mar 1	AND Abruzzi Rye	25 lbs/acre

PLD
PIEDMONT LAND DESIGN, LLP
8522–204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F–0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **02-14-24**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILS

DWG. NO. **SITE 28**

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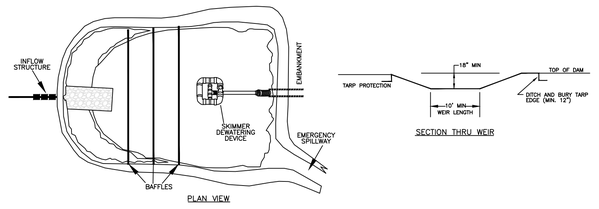
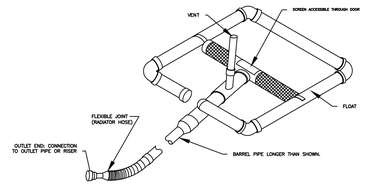


NOTES:
1) BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
2) THE TARP USED TO PROTECT THE WEIR SHALL BE THE WIDTH SPECIFIED. THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TARPS ARE TO BE USED, THEN TARPS SHALL BE OVERLAPPED AT LEAST 12". THE UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 50 MIL. HEAVY DUTY SILVER TARPAULINS OR EQUIVALENT FOR U.V. RESISTANCE.
3) PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
4) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
5) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
6) DURING THE CONSTRUCTION PHASE OF THE PROJECT, PERMANENT STORMWATER RISER SHALL ONLY DEWATER FROM THE TOP OF PIPE.
7) POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

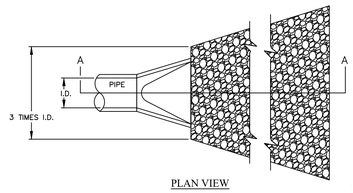
STANDARD SKIMMER BASIN



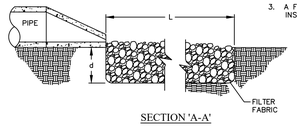
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SKIMMER DETAIL



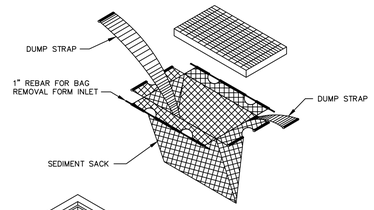
NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

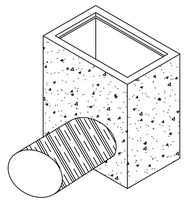


WAKE COUNTY NORTH CAROLINA

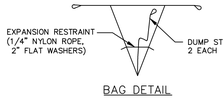
EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO FLAT AREA
NO WELL-DEFINED CHANNEL

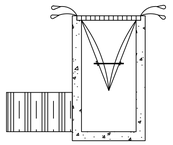




NOTES:
1. SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.



BAG DETAIL



INSTALLATION DETAIL

TOWN OF ZEBULON

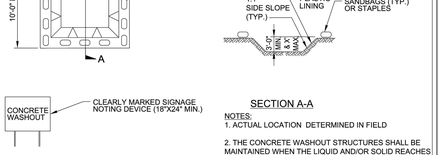
CATCH BASIN – SEDIMENT CONTROL DEVICES

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 50

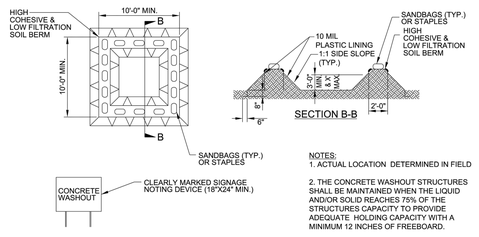
DATE: JULY 2010 | SHEET #: 1 OF 1

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



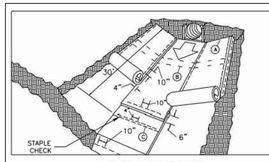
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE



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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE



MATTING IN DITCHES

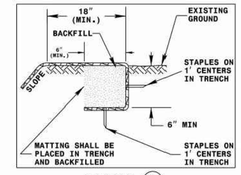
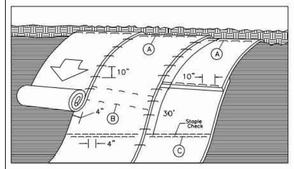


DIAGRAM (A)



MATTING ON SLOPES

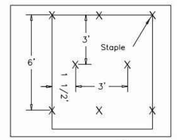


DIAGRAM (B)

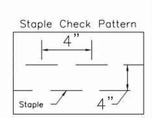
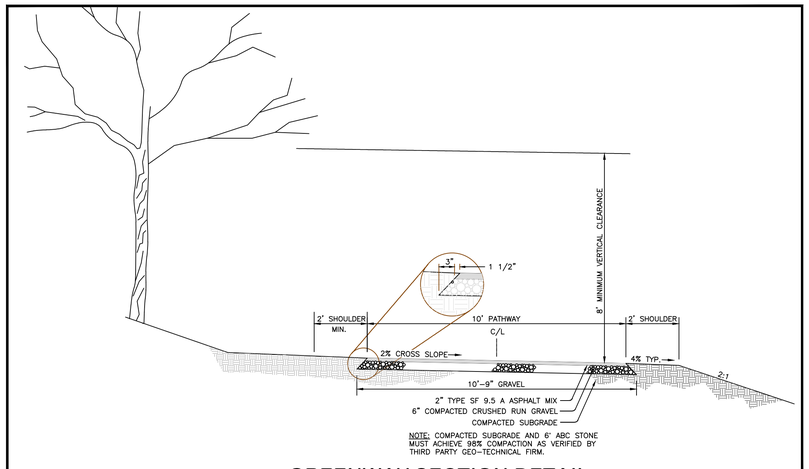


DIAGRAM (C)

NOTES
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, COIR FIBER MAT AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION AND AS DIRECTED.
STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE



NOTE: COMPACTED SUBGRADE AND 6" ABC STONE MUST ACHIEVE 98% COMPACTION AS VERIFIED BY THIRD PARTY GEO-TECHNICAL FIRM.

GREENWAY SECTION DETAIL

PLD

PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE ZEBULON, NC

ISSUED: **02-14-24**

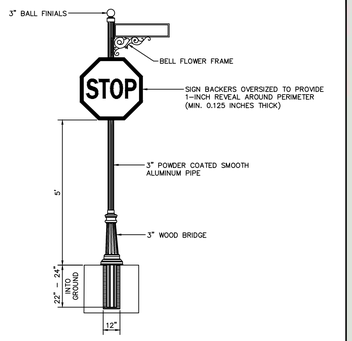
REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILS

DWG. NO. **SITE 29**



ELEVATIONAL VIEW

NOTES:

1. SIGNS WILL BE CONSTRUCTED FROM QUALITY ALUMINUM AND POWDER COATED WITH GLOSS BLACK POLYESTER TWO COAT PROCESS.
2. ALL FASTENERS WILL BE STAINLESS STEEL.
3. STOP SIGNS WILL HAVE A ⅜" BLACK ALUMINUM BACKER.
4. ALL STREET BLADES WILL BE FRAMED IN WITH ALUMINUM CASING.
5. ALL REFLECTIVE SIGNS SHALL BE MADE OF HIGH INTENSITY GRADE REFLECTIVE SHEETING.
6. DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING AND ERECTING ALL STREET NAME AND REGULATORY SIGNS.

TOWN OF ZEBULON		
PREMIUM SIGN INSTALLATION DETAIL	SCALE: NOT TO SCALE	DETAIL #: 31
USE WITH STANDARD SPECIFICATIONS ONLY	DATE: JULY 2010	SHEET #: 1 OF 1

Decorative Aluminum Poles with V-Loc®

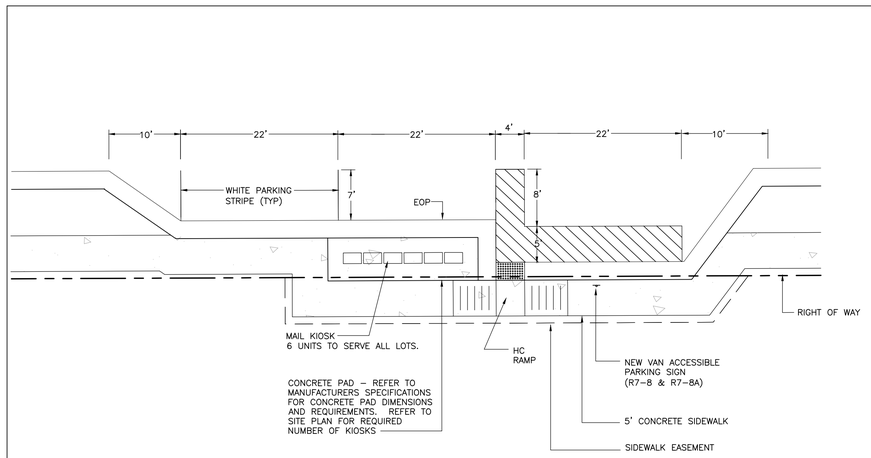
When pairing decorative aluminum poles with TAPCO's V-Loc® anchors, you get both the ease of installation and the safety of an NCHRP 350 approved breakaway anchor system. V-Loc® is the state of the art, reusable breakaway anchor, allowing you to replace posts literally in minutes. It anchors posts for signs, mailboxes and other applications. The V-Loc® anchor socket can be installed in concrete, asphalt or dirt safely by one person in a matter of minutes either by hand or power driver. Once the V-Loc® anchor is installed, you simply insert your post and drive in the patented wedge, locking the post into the anchor without the need for any additional hardware. V-Loc fins require no concrete in soil. It's simple, solid and safe. Each V-Loc includes a locking wedge easily replaced after a vehicle impact. Other diameter post and ground settings are available.

23-VR1, for post with 2 3/8" O.D. (concrete)	034-00012
23-VR3, for post with 2 3/8" O.D. (soil)	034-00014
30-VR1, for post with 3" O.D. (concrete)	034-00116
30-VR3, for post with 3" O.D. (soil)	034-00002
40-VR1, for post with 4" O.D. (concrete)	034-00117
40-VR3, for post with 4" O.D. (soil)	106782

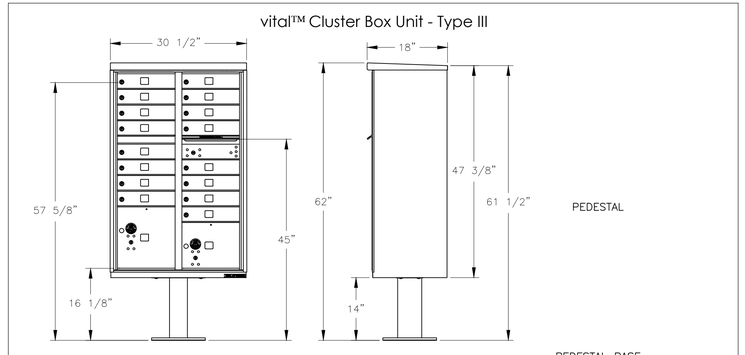
Decorative Breakaway Pole Packages

Fluted decorative poles for decorative way finding signage, BlinkerSign® LED signs. 4" pole required for RRFB systems

12' x 3" decorative pole package, anchor bolts (for concrete)	203-00181
12' x 3" decorative pole package, V-Loc® anchor (for soil)	203-00182
12' x 4" decorative pole package, V-Loc® anchor (for soil)	203-00183
12' x 4" decorative pole package, anchor bolts (for concrete)	203-00184
15' x 4" decorative pole package, anchor bolts (for concrete)	203-00185



MAIL KIOSK LAYOUT DETAIL NTS



DOOR CHART

DOOR TYPE	DIMENSION (HEIGHT x WIDTH)
TENANT	3-3/8"x12-13/16"
10" PARCEL	10-1/4"x12-13/16"
13" PARCEL	13-3/4"x12-13/16"
OUTGOING SLOT	3/4"x11-3/4"

NOTES:

1. This unit is approved for USPS and private applications.
2. Decorative mailbox accessories sold separately and are USPS Approved products.
3. Pedestal should be installed with included Rubber Pad; mounting hardware not included, refer to installation manual for recommendations.
4. Florence "F" series CBU is Officially Licensed by USPS: License#CDSEQ-08-B-0012

PRODUCT SERIES: vital™ CLUSTER BOX UNIT

AF FLORENCE manufacturing company
5935 Corporate Drive • Manhattan, KS 66503
www.florencemailboxes.com • (800) 275-1747
A GIBRALTAR INDUSTRIES COMPANY

MODEL	REV
1570-16	A
SCALE: NONE	LAST REV DATE: 9/26/2012
DRAWING NUMBER: 1570-16CS	DRAWN BY: AFD

MAIL KIOSK AND LIGHT POLE DETAILS

PLD
PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION
0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: **02-14-24**

REVISIONS:

DRAWN BY: **JET**
CHECKED BY: **MLS**

PROJECT: **FDCWP9**

DETAILS

DWG. NO. **SITE 30**

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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
• 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	• 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

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

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. 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

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. 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.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

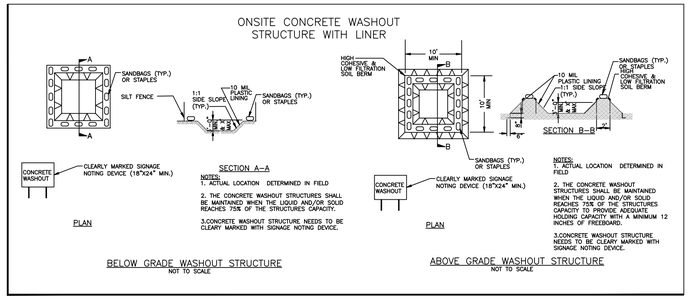
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled,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

PORTABLE TOILETS

1. 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.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. 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

1. 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.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. 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.



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. 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.
3. 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.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PLD
PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: 02-14-24

REVISIONS:

DRAWN BY: JET
CHECKED BY: MLS

PROJECT: FDCWP9

DETAILS

DWG. NO. SITE 31

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 rainfall 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 un-attended 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&SC 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 outfalls 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)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC 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 III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC 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&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC 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&SC plan.	Initial and date a copy of the approved E&SC 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&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC 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&SC 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:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) 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:

(a) Visible sediment deposition in a stream or wetland.

(b) 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).

(c) 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.

(d) 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	• ***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 NC 303(d) list 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	• ***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)]	• ***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)]	• ***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(l)(7)]	• ***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 reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

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:

(a) The E&SC 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&SC plan authority has approved these items,
(b) 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,
(c) 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,
(d) 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,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) 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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PLD
PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030856 MICHAEL L. SCHNEIDER

02-14-24

WEAVERS POINT SUBDIVISION

0 WEAVERS POND DRIVE
ZEBULON, NC

ISSUED: 02-14-24

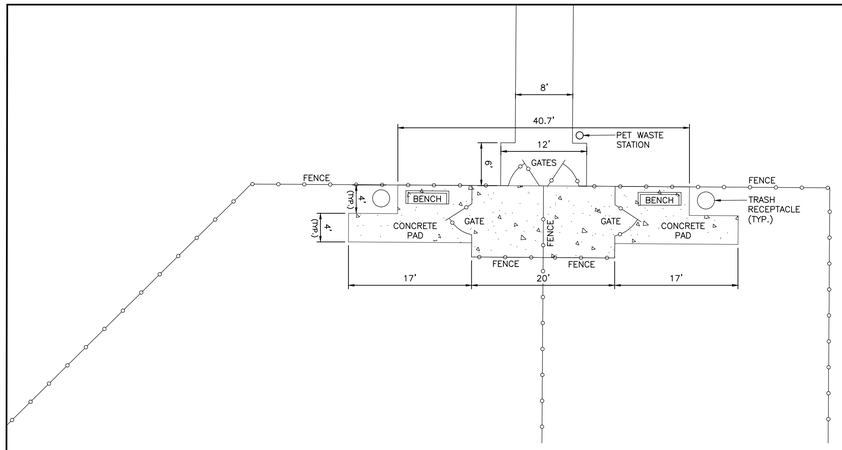
REVISIONS:

DRAWN BY: JET
CHECKED BY: MLS

PROJECT: FDCWP9

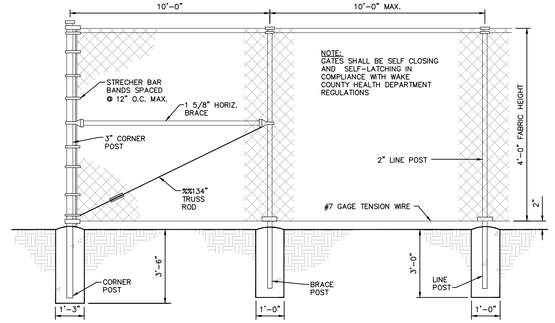
DETAILS

DWG. NO. SITE 32



DOG PARK ENTRANCE DETAIL

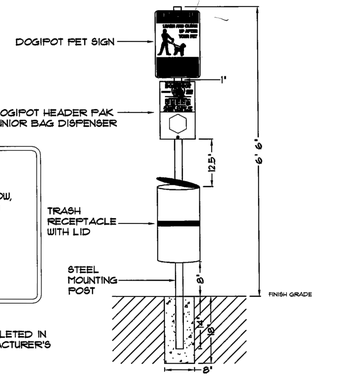
NTS



NOTES:
1. FENCING SHALL BE INSTALLED FOR DOG PARK AS SHOWN ON CIVIL PLANS.
2. COLOR SHALL BE BLACK
3. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

TYPICAL DOG PARK FENCE ELEVATION

NTS



BASIS OF DESIGN:

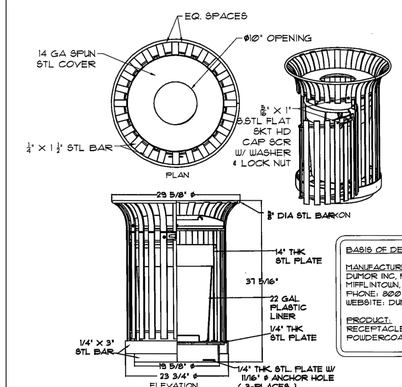
MANUFACTURER:
DOGIPOT, 2100 PRINCIPAL ROW, SUITE 405, ORLANDO, FL 32837
PHONE: (407)888-4627
FAX: (407)888-8526
WWW.DOGIPOT.COM

PRODUCT:
ALUMINUM DOGIPOT HEADER PAK PET STATION

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.

ELEVATION

1 / L1.4 PET WASTE STATION
SCALE: NOT TO SCALE ELEVATION



BASIS OF DESIGN:

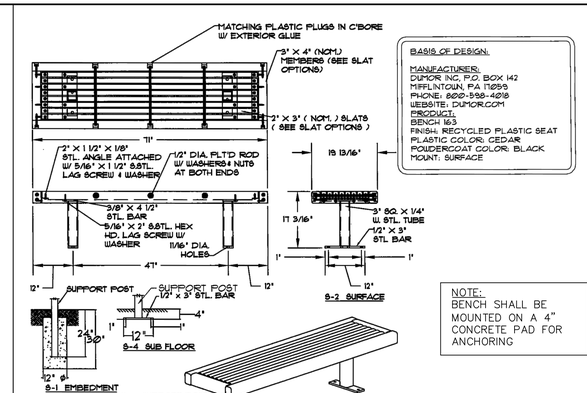
MANUFACTURER:
DUMOR INC. P.O. BOX 142
MIFFLINTOWN, PA 17059
PHONE: 800-598-4018
WEBSITE: DUMOR.COM

PRODUCT:
RECEPTACLE 151
POWDERCOAT COLOR: BLACK

NOTE:
TRASH RECEPTACLE SHALL BE MOUNTED ON A 4" CONCRETE PAD FOR ANCHORING

NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POUDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) LATCH PROVIDED W/ KEY, USE OF KEY OPTIONAL.
4.) CONTRACTOR TO PROVIDE SURFACE MOUNTING HARDWARE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 / L1.4 TRASH RECEPTACLE
SCALE: NOT TO SCALE PLAN, ELEVATION, AXON



BASIS OF DESIGN:

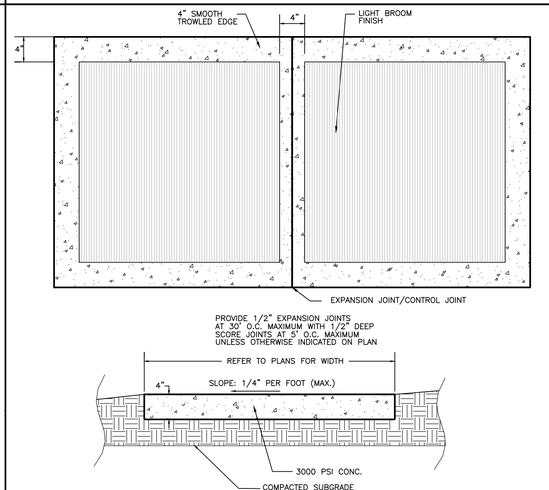
MANUFACTURER:
DUMOR INC. P.O. BOX 142
MIFFLINTOWN, PA 17059
PHONE: 800-598-4018
WEBSITE: DUMOR.COM

PRODUCT:
BENCH 163
FINISH: RECYCLED PLASTIC SEAT
PLASTIC COLOR: CEDAR
POUDERCOAT COLOR: BLACK
MOUNT: SURFACE

NOTE:
BENCH SHALL BE MOUNTED ON A 4" CONCRETE PAD FOR ANCHORING

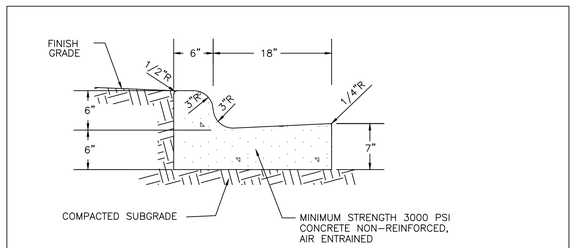
NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POUDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR 9-2, 9-3 & 9-4 OPTIONS.
3.) CONTRACTOR TO PROVIDE SURFACE MOUNTING HARDWARE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

3 / L1.4 BENCH
SCALE: NOT TO SCALE PLAN, ELEVATION, AXON



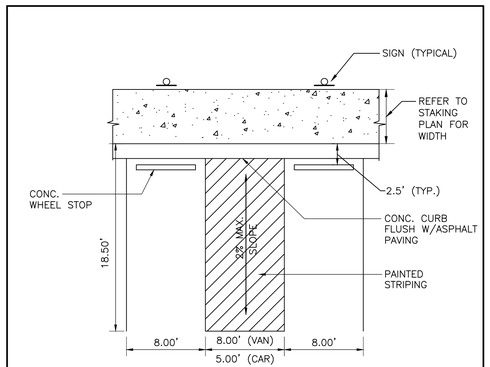
CONCRETE SIDEWALK W/ TROWELED EDGE (PRIVATE SIDEWALKS)

NTS



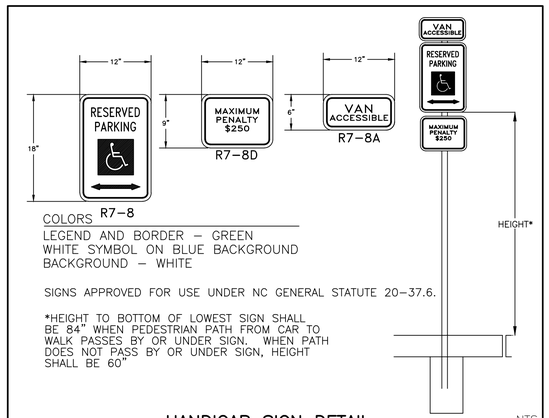
24" CONCRETE CURB & GUTTER (PRIVATE CURB & GUTTER)

NTS



HANDICAP PARKING SPACE DETAIL

NTS



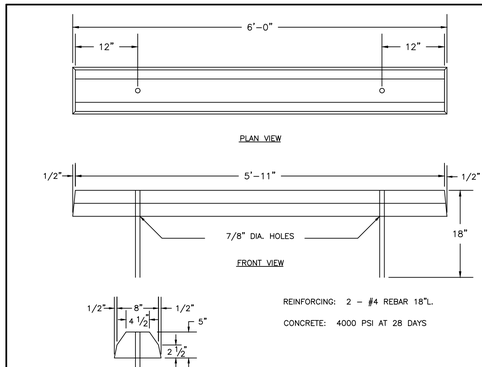
COLORS R7-8
LEGEND AND BORDER – GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND – WHITE

SIGNS APPROVED FOR USE UNDER NC GENERAL STATUTE 20-37.6.

*HEIGHT TO BOTTOM OF LOWEST SIGN SHALL BE 84" WHEN PEDESTRIAN PATH FROM CAR TO WALK PASSES BY OR UNDER SIGN. WHEN PATH DOES NOT PASS BY OR UNDER SIGN, HEIGHT SHALL BE 60"

HANDICAP SIGN DETAIL

NTS



CONCRETE WHEEL STOP

NTS

AMENITY AND PARKING AREA DETAILS

PLD
PIEDMONT LAND DESIGN, LLP
8522-204 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27615
919.845.7600 PHONE
919.845.7703 FAX
ENGR. FIRM LICENSE NO. F-0843

NORTH CAROLINA PROFESSIONAL SEAL 030856 ENGINEER MICHAEL L. SCHNEIDER

02-14-24

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0 WEAVERS POND DRIVE
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ISSUED: 02-14-24

REVISIONS:

DRAWN BY: JET
CHECKED BY: MLS

PROJECT: FDCWP9

DETAILS

DWG. NO. SITE 33