- 2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING
- 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 & EXISTING TOPOGRAPHY SURVEY PROVIDED BY TAYLOR LAND CONSULTING, FEBRUARY 2021.
- 5. THERE ARE NO PROTECTED WETLANDS WITHIN THE PROJECT SITE.
- 6. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS
- 7. PLAN IS SUBJECT TO REVISIONS DURING CONSTRUCTION DRAWING APPROVAL PROCESS
- 8. 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
- 9. ALL ROADWAY INFRASTRUCTURE CONSTRUCTION SHALL CONFORM TO THE TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
- 10. CONTRACTOR SHALL CONTACT THE TOWN OF ZEBULON TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING CONSTRUCTION.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. ALL CURB AND GUTTER REQUIRES CONCRETE TESTING FOR THE FOLLOWING REQUIREMENTS (SECTION 2.1.1):
  - 4" CONCRETE SLUMP TEMPERATURE - 50 AND 90 DEGREES
  - iii. AIR MIXTURE RANGE 3.5% TO 6.5% iv. STRUCTURAL BREAK TEST - 7.14.28 DAYS @ 3.000PSI @ 28 DAYS
- v. SAMPLES EVERY 1,000 LF OF CURB AND GUTTER TO ENSURE QUALITY
- vi. MAX WATER-CEMENT RATIO BY WEIGHT: 0.594 vii. MINIMUM CEMENT CONTENT (LBS/CY): 602
- 15. 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)
- 16. 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
- 17. ROADWAY SUB-GRADE TESTING/INSTALLATION REQUIREMENTS: 98% STANDARD PROCTOR ON ALL SOILS EVERY 300'. ALL LOCATIONS TESTED SHALL MEET 98% TESTING REQÚIREMENTS. AVERAGING OF DENSITY SCORES TO MEET STANDARD IS NOT ALLOWED. SUCCESSFUL PROOF ROLLS REQUIRED FOR ALL SUB-GRADE SOILS. (SECTION 2.5.2 A)
- 18. 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)
- 19. 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.
- 20. IMPERVIOUS SURFACE COVERAGE SHALL NOT EXCEED IMPERVIOUS SHOWN ON THE LOT. IMPERVIOUS SURFACE LIMITS WILL BE STRICTLY
- 21. PRIOR TO BUILDING PERMITS A PLAT MUST BE RECORDED AT THE WAKE COUNTY REGISTER OF DEEDS OFFICE FOR ALL UTILITY EASEMENT

#### **ZONING CONDITIONS**

- 1. USES SHALL BE LIMITED TO SINGLE FAMILY DETACHED, SINGLE FAMILY ATTACHED, AND PERMITTED ACCESSORY USES.
- 2. MINIMUM SINGLE FAMILY ATTACHED UNIT SHALL BE A MINIMUM OF 1,200 S.F.
- 3. MINIMUM DRIVEWAY STEM LENGTH SHALL BE 20'.
- 4. MACK TODD ROAD DEDICATE 5' OF RIGHT OF WAY. BUILD 1/2 OF THE ULTIMATE 70' RIGHT-OF-WAY SECTION. ROADWAY SECTION WILL INCLUDE 5' WIDE SIDEWALK FOR THE FULL LENGTH OF PROPERTY.
- 5. PROVIDE A 10' WIDE TYPE A BUFFER ALONG PIN 1795-82-9159 WHERE SINGLE FAMILY ATTACHED UNITS ARE LOCATED ADJACENT TO THE SHARED PROPERTY LINE AS SHOWN ON CONCEPT PLAN.
- 6. PROVIDE FOUNDATION PLANTS ALONG THE FRONT FAÇADE OF THE UNITS THAT FRONT ON MACK TODD ROAD IN LIEU OF A STREETSCAPE BUFFER, A MINIMUM OF THE FOLLOWING SHALL BE PLANTED: 3 EVERGREEN SHRUBS (12" HEIGHT @ INSTALLATION) PER UNIT AND SHALL BE A PLANT THAN CAN BE MAINTAINED AT 18" HEIGHT WHERE LOCATED IN THE SIGHT TRIANGLE. PLANT SELECTION TO BE DETERMINED AT SITE PLAN. SEE DETAIL ON L-2 FOR TYPICAL EXAMPLE OF FOUNDATION LANDSCAPING.
- 7. SLAB FOUNDATION SHALL BE PERMITTED.

LOT QUANTITIES

TOWN HOMES

STREET A STREET B

STREET LIGHTS

TOTAL

TOTAL

8. VINYL SIDING SHALL NOT BE PERMITTED BUT VINYL ACCENTS, SUCH AS WINDOWS, DECORATIVE TRIM, AND OTHER ELEMENTS SHALL BE

6" DIP

NUMBER OF STUBS = 1

NUMBER OF STUBS = 0

- 9. DEVELOPER SHALL PROVIDE EASEMENT FOR AND CONSTRUCT THE SECTION OF THE CORRIDOR 8 GREENWAY THAT RUNS ALONG THE EAST SIDE
- 10. NATIVE TREES SHALL BE USED FOR ANY STREET TREE OR BUFFER PLANTING.

QUANTITY

13 LOTS

**PUBLIC STREET QUANTITIES** 

PUBLIC STORM QUANTITIES

LENGTH

381 LF

411 LF

**HOA STORM QUANTITIES** 

306 LF

40 LF

340 LF

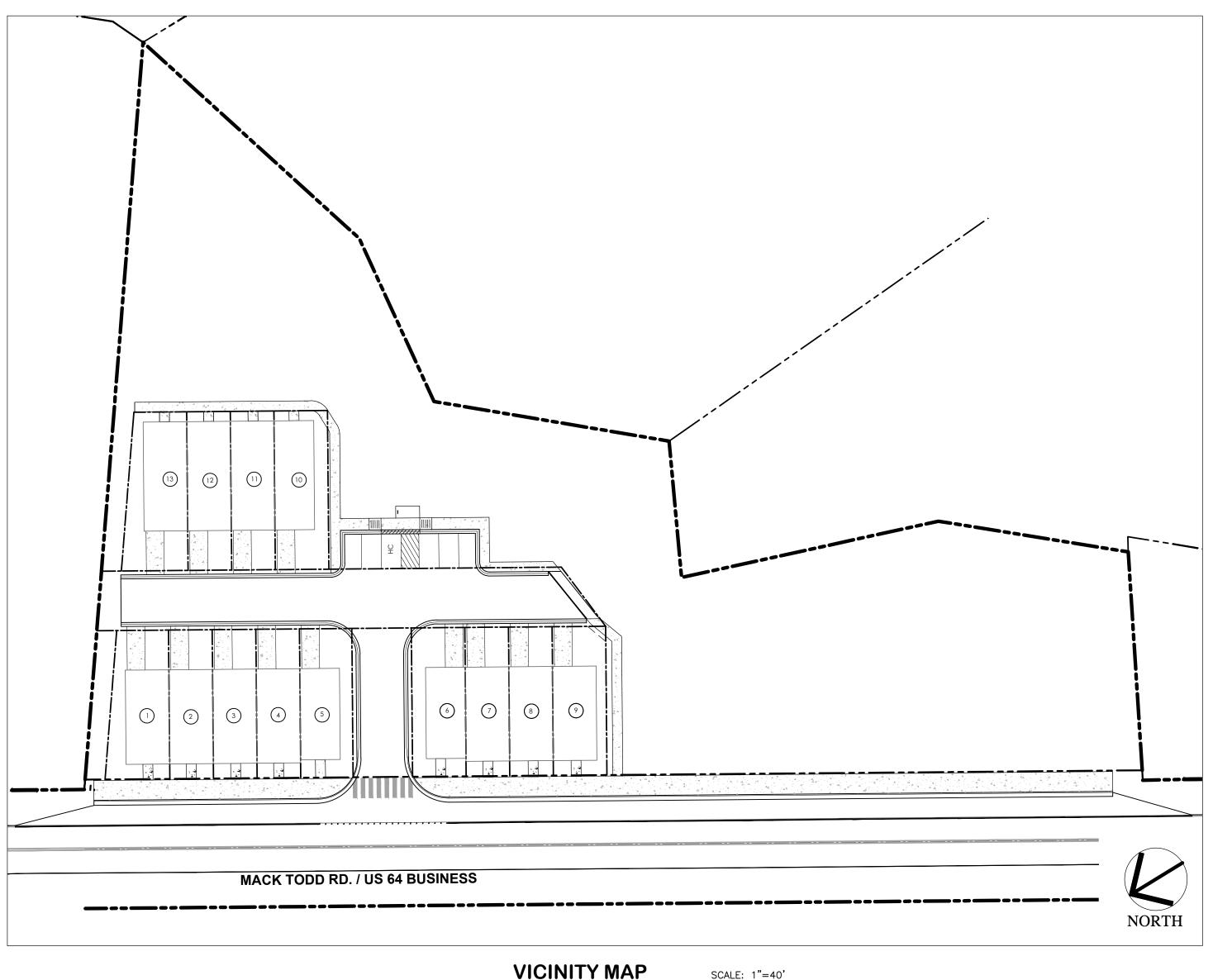
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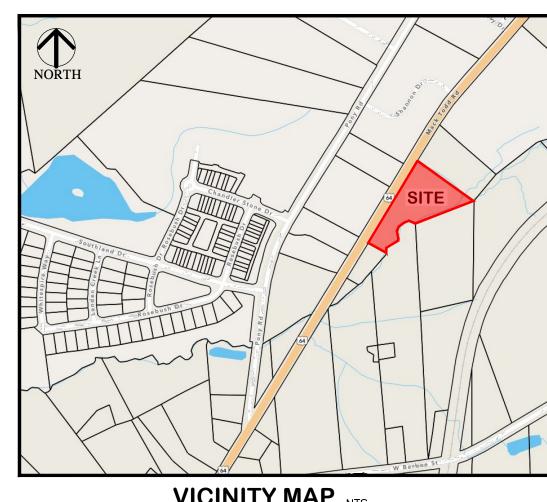
30 LF

11. 50% OF THE REQUIRED OPEN SPACE SHALL BE DEDICATED TO URBAN OPEN SPACE.

# MADISON RIDGE TOWNHOMES CONSTRUCTION PLANS

ZEBULON, NORTH CAROLINA





#### VICINITY MAP NTS

#### SITE PROJECT DATA

1. DEVELOPMENT NAME: MADISON RIDGE TOWNHOMES 1795-82-7060 2. WAKE COUNTY P.I.N.s: 3. TOTAL NUMBER OF LOTS: 13 TOWNHOME LOTS 4. TRACT AREA: 2.30 AC 5. ZONING: 6. INSIDE TOWN LIMITS: YES 7. WATERSHED: NEUSE RIVER BASIN

8. DISTURBED AREA: 1.6 AC

9. PROPOSED IMPERVIOUS SURFACE STREETS/SIDEWALKS = 0.28 AC (INCLUDES MAIL KIOSK, PARKING AND 4,000 SF FOR

AMENITY AREAS,)  $= 0.41 \text{ AC} \pm (\text{AVG. } 1,365 \text{ SF/LOT})$ TOTAL  $= 0.69 AC \pm$ 

\*SEE SITE PLAN FOR ALLOCATED BUA / LOT.

THE SITE IS NOT WITHIN A FEMA FLOOD ZONE PER 10 FEMA INFORMATION MAPS # 3720179700K - PANEL 1797 EFFECTIVE DATE 07/19/2022

CAPITAL PROPERTIES OF NORTH CAROLINA LLC 11. OWNER / DEVELOPER: 1540 GRAND WILLOW WAY RALEIGH, NC 27614 (919) 779-9664

CONTACT: MICHAEL NEDRIGA 12. 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@piedmontlanddesian.com (E-MAIL)

\*\* SEE SITE PLAN FOR ADDITIONAL SITE DATA

#### DRAWING INDEX

DETAILS

DETAILS

DETAILS

SITE 18

SITE 19

SITE 20

COVER SHEET SITE 2 EXISTING CONDITIONS PLAN SITE PLAN LANDSCAPE PLAN URBAN OPEN SPACE PLAN L - 3.1L - 3.2URBAN OPEN SPACE PLAN DETAILS L-4SITE 4 GRADING AND DRAINAGE PLAN SITE 5 UTILITY PLAN SITE 6 STAGE ONE EROSION CONTROL PLAN STAGE TWO EROSION CONTROL PLAN SITE 6A SITE 7 STAGE THREE EROSION CONTROL PLAN SITE 8 STREET A & B PLAN AND PROFILES SCM DETAILS & PLANTING PLAN SITE 9 ROAD WIDENING PLAN SITE 10 ROAD CROSS SECTIONS SITE 11 DETAILS SITE 12 **DETAILS** SITE 13 **DETAILS** SITE 14 DETAILS SITE 15 **DETAILS** SITE 16 DETAILS SITE 17

#### STREET LIGHT QUANTITIES 8" PVC 301 LF 301 LF QUANTITY EROSION CONTROL, STORMWATER

PROPOSED SEWER FLOW= 52 X 75 GPD/BR= 3,900 GPD

**PUBLIC WATER QUANTITIES** 

**PUBLIC SEWER QUANTITIES** 

LENGTH

333 LF

NUMBER OF SERVICE CONNECTIONS = 14

NUMBER OF SERVICE ABANDONMENTS = 0

LENGTHS

NUMBER OF SERVICE CONNECTIONS = 13

NUMBER OF SERVICE ABANDONMENTS = 0

NUMBER OF MAIN TIE-IN POINTS = 1

**SEWER FLOW DATA** 

NUMBER OF MAIN TIE-IN POINTS = 1

NUMBER OF BEDROOMS= 52

## AND FLOODPLAIN MANAGEMENT **APPROVED** EROSION CONTROL ☐ SEC-STORMWATER MGMT.□SWF-FLOOD STUDY SWF-DATE

ENVIRONMENTAL CONSULTANT SIGNATURE

#### **ATTENTION CONTRACTORS**

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Raleigh Water Inspector at 919-996-3245 or https://cityworks.raleighnc.gov/pucontractors and schedule a Pre-construction meeting prior to beginning any construction. Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require re-installation 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 Raleigh Water 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 the 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 electronic 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 Officer

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

Sewer Collection / Extension System 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 #

Public Utilities Department Permit #

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



06 MAY 2025

**REVISIONS:** 

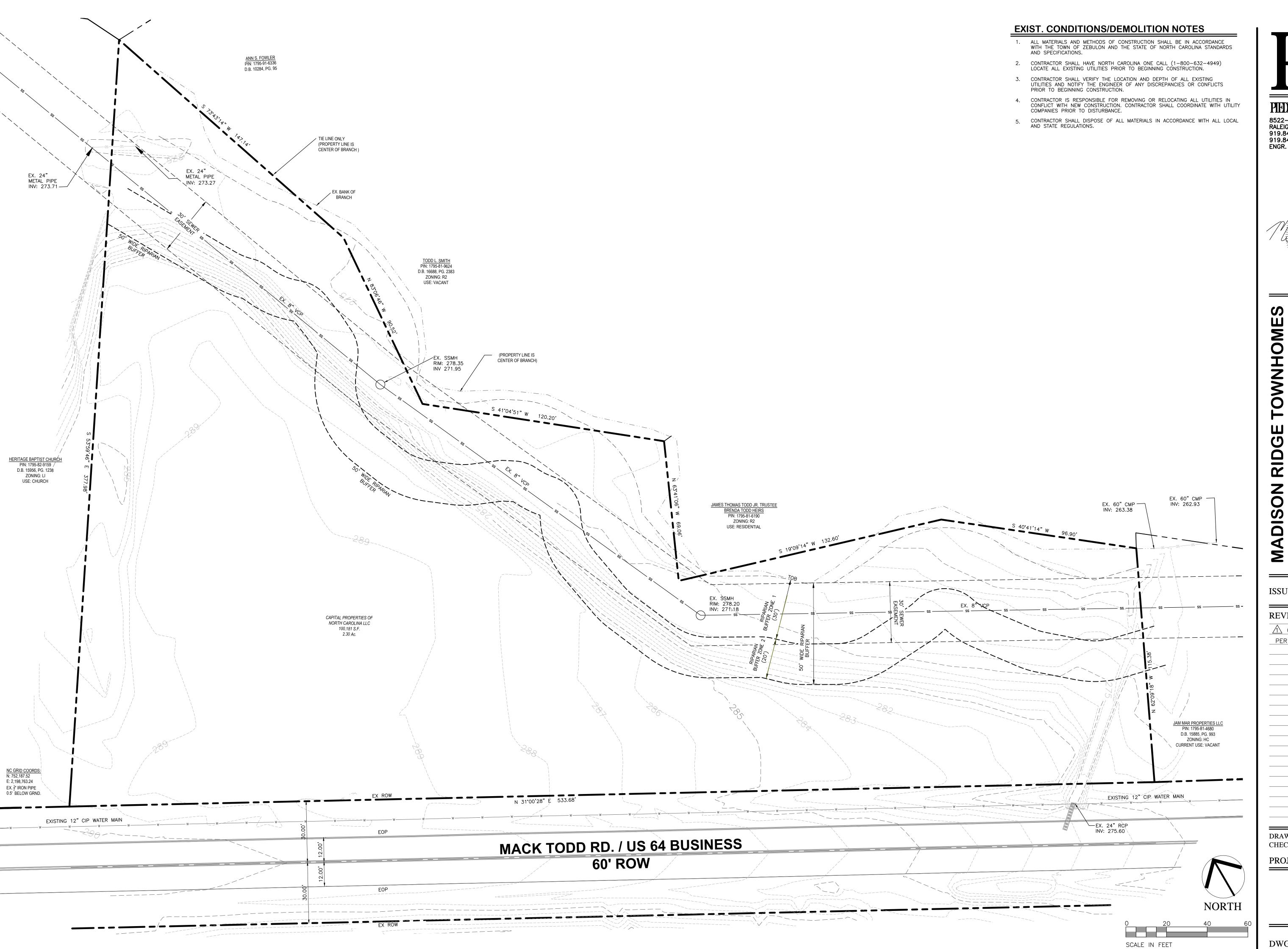
1 06 MAY 2025 PER TOWN/COUNTY COMMENTS

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PROJECT: **CPMTRZ** 

CHECKED BY: MLS

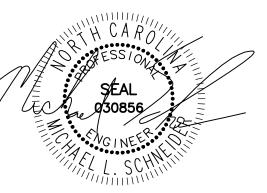
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8522-204 SIX FORKS ROAD RALEIGH, NORTH CAROLINA 27615 919.845.7600 PHONE 919.845.7703 FAX ENGR. FIRM LICENSE NO. F-0843



05/06/25

901 MACK TODD ROAD

SSUED: **06 MAY 20** 

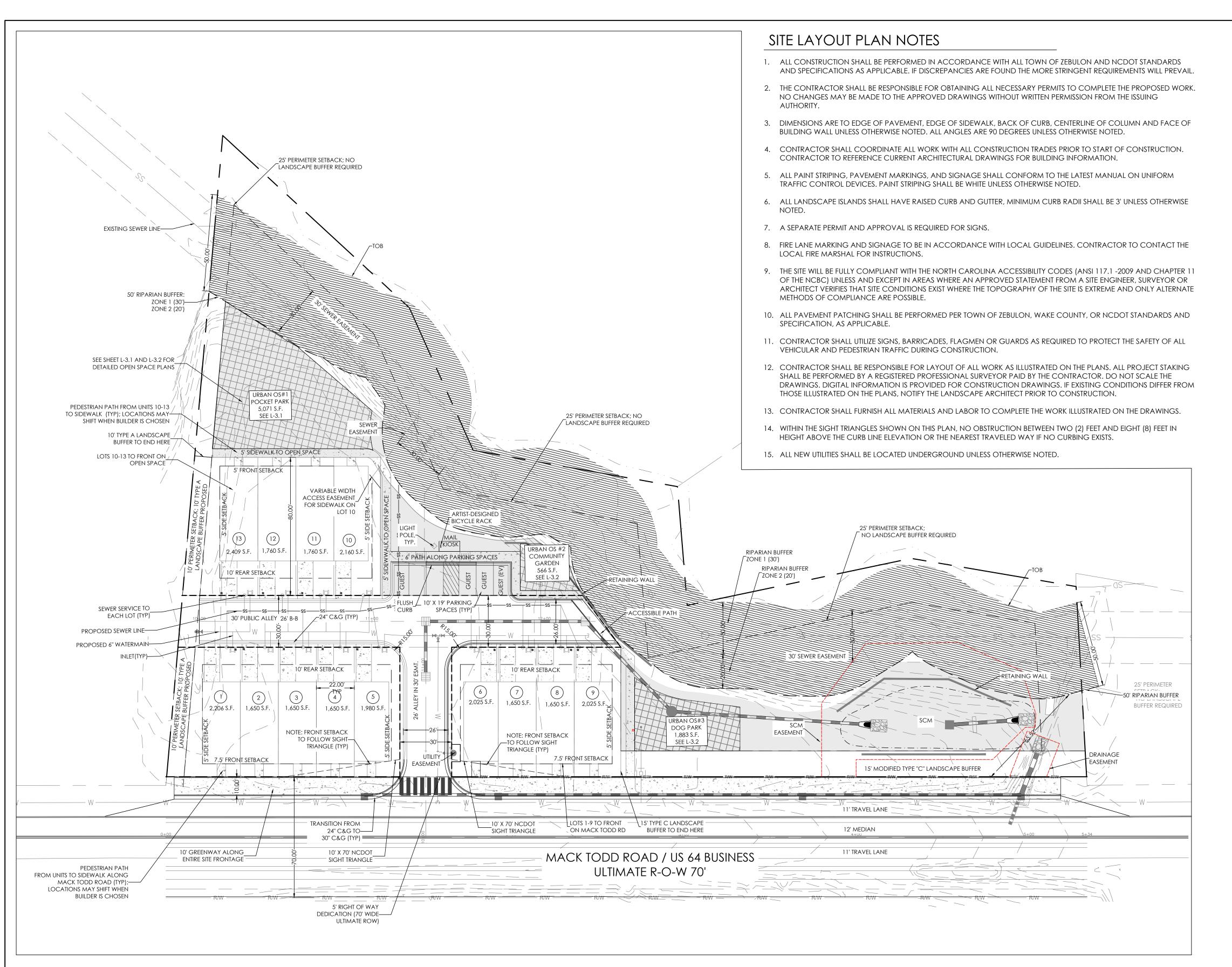
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06 MAY 2025
PER TOWN/COUNTY COMMENTS

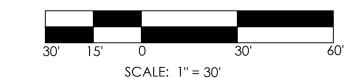
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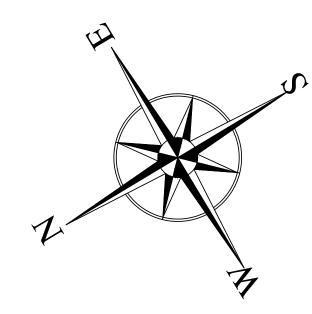
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EXISTING CONDITIONS



# 1 CONCEPT PLAN





#### SITE DATA

AREA: 2.30 AC PIN: 1795-82-7060

EX. USE: VACANT

PROPOSED USE: RESIDENTIAL - TOWNHOMES

EX. ZONING: R4-C PROPOSED ZONING: PD

DENSITY: 5.65 DU/AC

OPEN SPACE REQUIRED: 10% (0.23 AC)
OPEN SPACE PROVIDED: 53% (1.22 AC)

URBAN O.S. REQUIRED: 5% ( $\frac{1}{2}$  OF REQUIRED O.S.) - 0.12 AC URBAN O.S. PROVIDED: 8,067 S.F. / 0.19 AC

SINGLE FAMILY ATTACHED: 13 UNITS MAX.
REAR LOADED UNITS

PERIMETER SETBACKS: 10' AND 25' PERIMETER SETBACK AS NOTED

LOT SETBACKS: 5' FRONT SETBACK FOR LOTS 10-13/7.5' FRONT SETBACK FOR LOTS 1-9

5' SIDE SETBACK 10' REAR SETBACK

PARKING REQUIRED: 2 SPACES PER UNIT - 26 TOTAL

0.25 GUEST SPACE PER UNIT - 4 TOTAL

2 SPACES FOR MAIL KIOSK (1 OF THESE AD

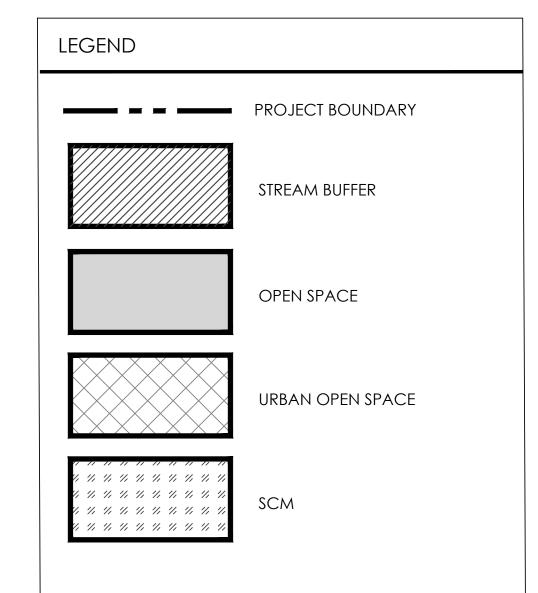
2 SPACES FOR MAIL KIOSK (1 OF THESE ADA)
PARKING PROVIDED: 2 SPACES PER UNIT (ON LOT) - 26 TOTAL

6 GUEST SPACES 1 REGULAR AND 1 HC SPACE FOR THE MAIL KIOSK

LANDSCAPE BUFFERS: 15' STREET TREE BUFFER ALONG MACK TODD RD. WHERE THERE ARE NO FRONTING LOTS ON MACK TODD RD.

STREAM BUFFERS: YES

WETLANDS: NO FLOODPLAIN: NO



IMPERVIOUS AREA BY L	ОТ
Lot	Allowable Impervious Surface Area (SF)
Lot 1	1,345
Lot 2	1,345
Lot 3	1,345
Lot 4	1,345
Lot 5	1,227
Lot 6	1,227
Lot 7	1,345
Lot 8	1,345
Lot 9	1,345
Lot 10	1,386
Lot 11	1,496
Lot 12	1,496
Lot 13	1,496







NOT FOR

CONSTRUCTION

| REVISIONS:

SIIE PLAN

MADISON RIDGE TOWNHOMES

901 MACK TODD TOAD

901 MACK TODD TOAD

SCALE:
AS NOTED

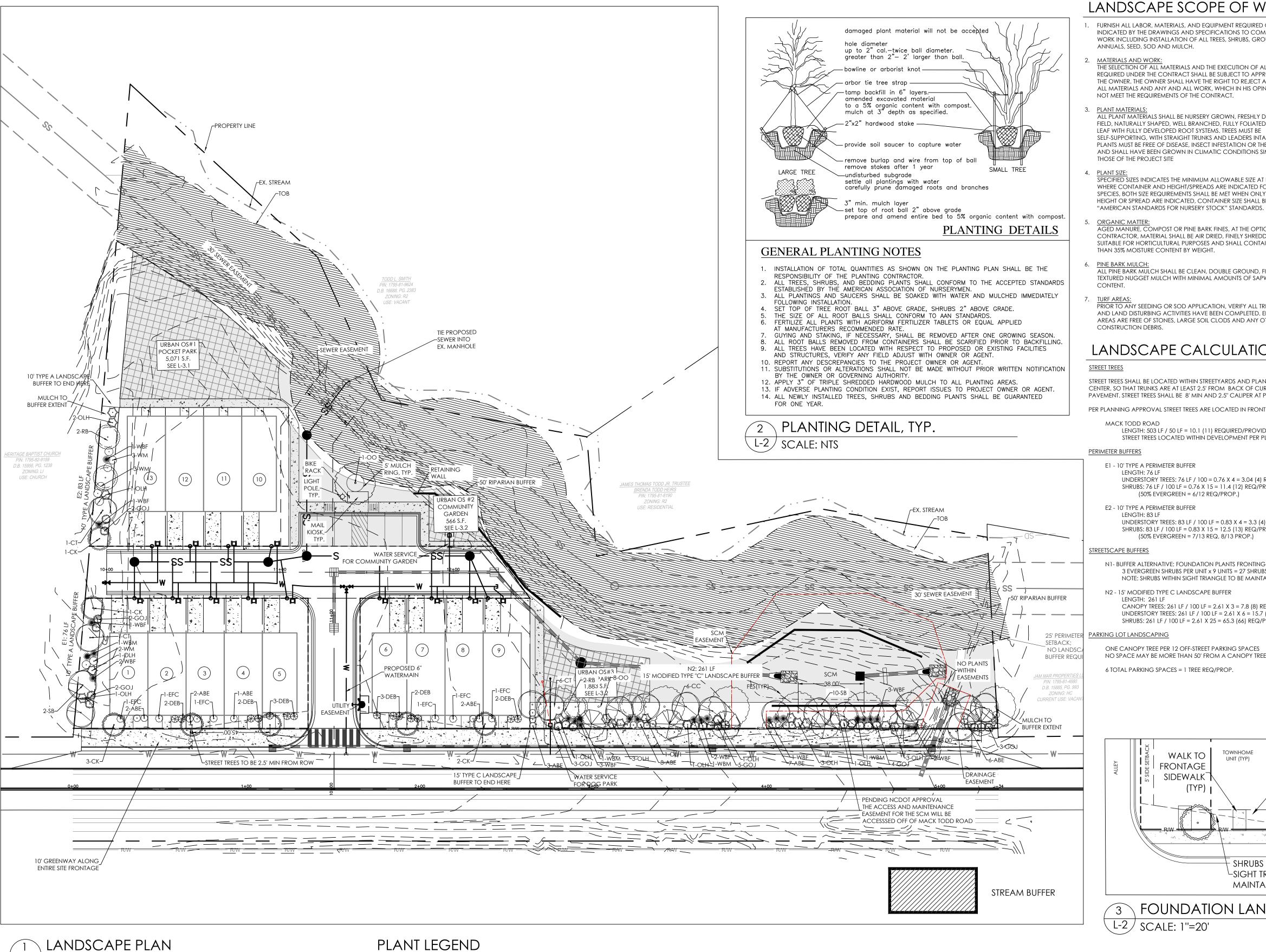
DRAWN BY:
PMP, MA

PROJECT #
23166

DATE:
05/05/2025

SHEET

\_ \_ \_ .\_ \_ 5



#### LANDSCAPE SCOPE OF WORK

- FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED OR INDICATED BY THE DRAWINGS AND SPECIFICATIONS TO COMPLETE THE WORK INCLUDING INSTALLATION OF ALL TREES, SHRUBS, GROUNDCOVER, ANNUALS, SEED, SOD AND MULCH.
- MATERIALS AND WORK:
  THE SELECTION OF ALL MATERIALS AND THE EXECUTION OF ALL WORK REQUIRED UNDER THE CONTRACT SHALL BE SUBJECT TO APPROVAL BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO REJECT ANY AND ALL MATERIALS AND ANY AND ALL WORK, WHICH IN HIS OPINION, DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT.
- ALL PLANT MATERIALS SHALL BE NURSERY GROWN, FRESHLY DUG IN THE FIELD, NATURALLY SHAPED, WELL BRANCHED, FULLY FOLIATED WHEN IN LEAF WITH FULLY DEVELOPED ROOT SYSTEMS. TREES MUST BE SELF-SUPPORTING, WITH STRAIGHT TRUNKS AND LEADERS INTACT. ALL PLANTS MUST BE FREE OF DISEASE, INSECT INFESTATION OR THEIR EGGS AND SHALL HAVE BEEN GROWN IN CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE
- SPECIFIED SIZES INDICATES THE MINIMUM ALLOWABLE SIZE AT PLANTING. WHERE CONTAINER AND HEIGHT/SPREADS ARE INDICATED FOR A SINGLE SPECIES, BOTH SIZE REQUIREMENTS SHALL BE MET WHEN ONLY PLANT HEIGHT OR SPREAD ARE INDICATED, CONTAINER SIZE SHALL BE BASED ON
- AGED MANURE, COMPOST OR PINE BARK FINES, AT THE OPTION OF THE CONTRACTOR, MATERIAL SHALL BE AIR DRIED, FINELY SHREDDED AND SUITABLE FOR HORTICULTURAL PURPOSES AND SHALL CONTAIN NO MORE THAN 35% MOISTURE CONTENT BY WEIGHT.
- ALL PINE BARK MULCH SHALL BE CLEAN, DOUBLE GROUND, FINE TEXTURED NUGGET MULCH WITH MINIMAL AMOUNTS OF SAPWOOD
- PRIOR TO ANY SEEDING OR SOD APPLICATION, VERIFY ALL TRENCHING AND LAND DISTURBING ACTIVITIES HAVE BEEN COMPLETED, ENSURE ALL AREAS ARE FREE OF STONES, LARGE SOIL CLODS AND ANY OTHER CONSTRUCTION DEBRIS.

#### LANDSCAPE CALCULATIONS

STREET TREES SHALL BE LOCATED WITHIN STREETYARDS AND PLANTED 45-50' ON CENTER, SO THAT TRUNKS ARE AT LEAST 2.5' FROM BACK OF CURB AND EDGE OF PAVEMENT. STREET TREES SHALL BE 8' MIN AND 2.5" CALIPER AT PLANTING.

PER PLANNING APPROVAL STREET TREES ARE LOCATED IN FRONT YARDS. LENGTH: 503 LF / 50 LF = 10.1 (11) REQUIRED/PROVIDED

#### PERIMETER BUFFERS

#### E1 - 10' TYPE A PERIMETER BUFFER

UNDERSTORY TREES: 76 LF / 100 = 0.76 X 4 = 3.04 (4) REQ/PROP. SHRUBS: 76 LF / 100 LF = 0.76 X 15 = 11.4 (12) REQ/PROP. (50% EVERGREEN = 6/12 REQ/PROP.)

STREET TREES LOCATED WITHIN DEVELOPMENT PER PLANNING DEPT.

#### E2 - 10' TYPE A PERIMETER BUFFER LENGTH: 83 LE

UNDERSTORY TREES: 83 LF / 100 LF = 0.83 X 4 = 3.3 (4) REQ/PROP. SHRUBS: 83 LF / 100 LF = 0.83 X 15 = 12.5 (13) REQ/PROP. (50% EVERGREEN = 7/13 REQ, 8/13 PROP.)

#### TREETSCAPE BUFFERS

N1- BUFFER ALTERNATIVE: FOUNDATION PLANTS FRONTING MACK TODD RD 3 EVERGREEN SHRUBS PER UNIT x 9 UNITS = 27 SHRUBS REQ/PROP. NOTE: SHRUBS WITHIN SIGHT TRIANGLE TO BE MAINTAINED AT <18"

#### N2 - 15' MODIFIED TYPE C LANDSCAPE BUFFER LENGTH: 261 LF

CANOPY TREES: 261 LF / 100 LF = 2.61 X 3 = 7.8 (8) REQ/PROP. UNDERSTORY TREES: 261 LF / 100 LF = 2.61 X 6 = 15.7 (16) REQ/PROP SHRUBS: 261 LF / 100 LF = 2.61 X 25 = 65.3 (66) REQ/PROP.

#### PARKING LOT LANDSCAPING

ONE CANOPY TREE PER 12 OFF-STREET PARKING SPACES NO SPACE MAY BE MORE THAN 50' FROM A CANOPY TREE

#### LANDSCAPE PLAN NOTES

#### TOWN OF ZEBULON REQUIREMENTS:

- 1. CANOPY TREES SHALL BE MINIMUM 8' HEIGHT AND 2.5' CALIPER AT TIME OF PLANTING AND REACH 40' HEIGHT AND 30' SPREAD AT TIME OF MATURITY. 2. UNDERSTORY TREES SHALL BE MINIMUM 4' AND 1.5' CALIPER AT TIME OF PLANTING AND
- MATURE TO 15-40' HEIGHT (20' MAX UNDER POWERLINES). 3. SHRUBS SHALL BE MINIMUM 3 GAL AND 18" HEIGHT OR SPREAD AT TIME OF PLANTING AND
- MATURE TO 36' HEIGHT AND 30' SPREAD IN 3 YEARS.
- 4. PLANTED AREAS SHALL BE COVERED IN MULCH OR GROUNDCOVER, OR WHERE SLOPES ARE 15% OR MORE BY GROUNDCOVER FULLY ESTABLISHED AT COO. 5. SPECIES SHALL BE NATIVE OR LOCALLY-ADAPTED AND SHALL COMPLY WITH SPECIES DIVERSITY REQUIREMENTS IN UDO SECTION 5.6.7-E.

#### GENERAL REQUIREMENTS:

1. ALL PLANT MATERIAL ON THIS SITE MUST MEET MINIMUM TOWN OF ZEBULON UDO REQUIREMENTS FOR SIZE, HEIGHT, AND SPACING. PLANT MATERIAL SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES AND IN CONFORMANCE WITH THE GENERAL PLANTING NOTES AND DETAILS

2. PLANTING STOCK SHALL MEET ALL STANDARDS WITHIN THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK." ALL PLANTS SHALL BE VIGOROUS, HEALTHY MATERIAL FREE FROM PESTS AND DISEASE.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PROJECT SITE AND FAMILIARIZE WITH ACTUAL FIELD CONDITIONS PRIOR TO BIDDING AND COMMENCING WORK. THE CONTRACTOR SHALL ACCEPT ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK SPECIFIED INCLUDING THE FINE GRADING AND INCORPORATION OF TOPSOIL INTO PLANTING AREAS, WITHOUT ADDITIONAL COMPENSATION FOR POSSIBLE VARIATIONS FROM GRADES AND CONDITIONS SHOWN WEATHER SURFACE OR SUBSURFACE. IF FIELD CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER IMMEDIATELY AND PRIOR TO ORDERING MATERIALS.

4. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PERMITS TO PERFORM THE WORK.

5. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES ABOVE AND BELOW GROUND AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR ACTIVITIES. CONTRACTOR SHALL NOTIFY NORTH CAROLINA ONE CALL (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NORTH CAROLINA ONE CALL. THE CONTRACTOR MAY ALSO NEED TO ENGAGE A PRIVATE UTILITY LOCATING FIRM AT THEIR OWN COST TO EFFICIENTLY HAVE ALL UTILITIES LOCATED.

6. ANY DAMAGE TO EXISTING IMPROVEMENTS OUTSIDE OF THE PROJECT LIMITS, INCLUDING CURB AND GUTTER, SIDEWALKS, PAVED OR TURF AREAS SHALL BE REPAIRED TO ORIGINAL CONDITIONS BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE DEVELOPER.

7. PLANT QUANTITIES TO BE VERIFIED BY LANDSCAPE CONTRACTOR. IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY OF PLANTS SHOWN ON PLANS AS COMPARED TO PLANT LIST THE CONTRACTOR SHALL PROVIDE THE QUANTITY SHOWN ON PLANS.

8. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT FOR ANY PLANT SUBSTITUTIONS OR MODIFICATIONS TO THE LANDSCAPE PLANS. THIS MAY REQUIRE A MODIFICATION TO THE APPROVED PLANS. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES ON THE PLANS.

9. ALL ABOVE GROUND MECHANICAL EQUIPMENT, ELECTRICAL TRANSFORMERS, DUMPSTERS, BACKFLOW PREVENTERS, AND VALVE BOXES SHALL BE SCREENED FROM VIEW OF ADJACENT PROPERTIES AND RIGHT-OF-WAY WHILE MAINTAINING REQUIRED ACCESS TO LOCAL CODE STANDARDS AND REQUIREMENTS.

AND EIGHT FEET IN HEIGHT ABOVE THE NEAREST VEHICLE SURFACE OR ADJACENT CURB LINE SHALL

10. WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTIONS BETWEEN TWO FEET

11. ALL UNPAVED AREAS SHALL BE TOPSOILED AND SEEDED / SODDED OR MULCHED TO THE LIMITS OF CONSTRUCTION BASED ON ACTUAL FIELD CONDITIONS BEYOND THE APPROVED PLANS.

12. ALL SOD TO BE REBEL FESCUE IV, TURF GEM, LESCO OR EQUAL. ALL SEED TO BE REBEL FESCUE IV TURF GEM, LESCO OR EQUAL @ 6 LBS. PER 1000 S.F. IN LAWN AREAS 3" TOPSOIL SHALL BE TILLED INTO THE TOP 6" OF GROUND PRIOR TO SEEDING.

13. SLOPES GREATER THAN 3:1 SHALL REQUIRE HYDRO-SEEDING. SLOPES GREATER THAN 2:1 SHALL BE SODDED WITH CENTIPEDE GRASS. ADDITIONAL STABILIZATION MEASURES MAY BE REQUIRED FOR SLOPES GREATER THAN 3:1 TO ENSURE SOIL STABILIZATION AND ESTABLISHMENT OF PERMANENT

14. INTERIOR MULCH SHALL BE DOUBLE GROUND PINE BARK TO A DEPTH OF 4". PERIMETER LANDSCAPE BUFFERS SHALL BE MULCHED WITH 4" PINE STRAW TO BED LINES SHOWN OR BUFFER LIMITS. BED LINES SHALL CONFORM TO CONFIGURATION SHOWN ON PLANS.

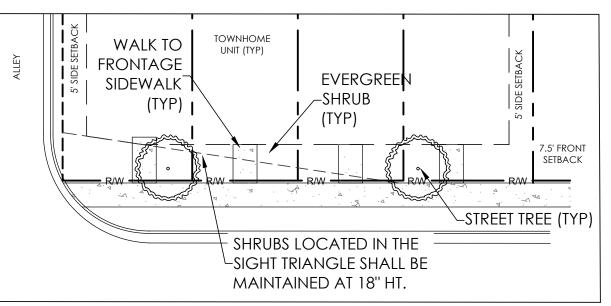
15. PINE STRAW MULCH TO FILL THE 15' PERIMETER LANDSCAPE BUFFER BETWEEN PLANTINGS, PINE STRAW SHALL NOT BE USED AS MULCH OR GROUNDCOVER WITHIN TEN FEET OF ANY STRUCTURES

16. CONTRACTOR SHALL LEVEL AND SMOOTH ALL DISTURBED AREAS AND REMOVE ALL ROCKS AND CONSTRUCTION DEBRIS PRIOR TO SEEDING, SOD OR PLANT INSTALLATION.

17. NOTE THAT WITHIN LANDSCAPED AREAS SURROUNDING BUILDING, THE GRADES SHOWN ON THE GRADING SHEET ARE "TOP OF MULCH" OR "TOP OF TOPSOIL." CONTRACTOR SHALL ENSURE POSITIVE FINISHED DRAINAGE (MIN. 2%) AWAY FROM ALL BUILDINGS AND COORDINATE WITH THE LANDSCAPE PLAN TO LEAVE SUBGRADE LOW ENOUGH TO MAINTAIN THESE SPOTS AS FINISHED

18. OWNER SHALL MAINTAIN ALL PLANT BEDS AND PLANT MATERIAL IN GOOD HEALTH, AND ANY DEAD, UNHEALTHY OR MISSING PLANTS SHALL BE REPLACED WITH THE SAME PLANT MATERIAL ORIGINALLY SPECIFIED ON THIS PLAN.

19. TREE PLANTING AND SITE LIGHT POLES SHALL BE SEPARATED BY AT LEAST 10'. 20. TREE PLANTING AND SITE DRIVEWAYS SHALL BE SEPARATED BY AT LEAST 10'.

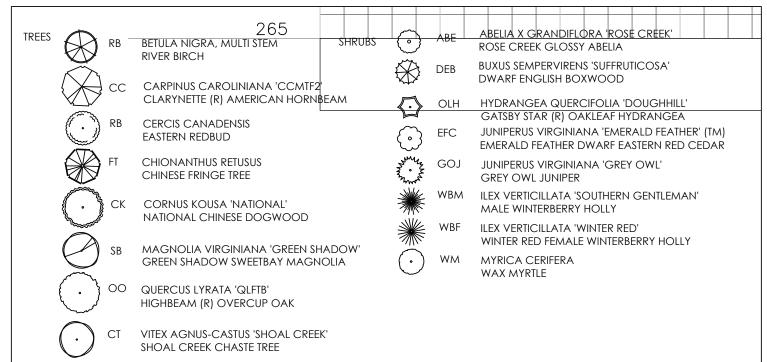


#### THE FOUNDATION LANDSCAPING SHALL INCLUDE THREE SMALL EVERGREEN SHRUBS INSTALLED AT 12" HT. PER UNIT.

- PLANT SELECTION DETERMINED AT SITE PLAN. SHRUBS LOCATED IN THE SIGHT TRIANGLE SHALL BE MAINTAINED AT 18" HT. FOUNDATION PLANTINGS ARE IN LIEU OF A
- STREETSCAPE BUFFER. BUILDINGS SHOWN IN THIS DETAIL ARE ILLUSTRATIVE; ACTUAL BUILDING SHAPE/SIZE MAY VARY.

#### FOUNDATION LANDSCAPING TYP. L-2 | SCALE: 1"=20"

## PLANT SCHEDULE - CODE COMPLIANT PLANTS ONLY



L-2 | SCALE: 1"=30"

SCALE: 1" = 30'

KEY	BOTANICAL NAME	COMMON NAME	HT	CAL.	CONT.	QTY.	%	TYPE	LOCAL	COMMENTS
TREES										
CC	CARPINUS CAROLINIANA 'CCMTF2'	CLARYNETTE ® AMERICAN HORNBEAM	8'	2.5"		6	14%	DEC	NATIVE	FASTIGIATE
RB	CERCIS CANADENSIS	EASTERN REDBUD	6'			4	9%	DEC	NATIVE	
CK	CORNUS KOUSA 'NATIONAL'	NATIONAL CHINESE DOGWOOD	6'			7	16%	DEC	LOCALLY-ADAPTED	
SB	MAGNOLIA VIRGINIANA 'GREEN SHADOW'	GREEN SHADOW SWEETBAY MAGNOLIA	6'			10	23%	SEMI-EVG	NATIVE	
00	QUERCUS LYRATA 'QLFTB'	HIGHBEAM ® OVERCUP OAK	8'	2.5"		9	20%	DEC	NATIVE	
CT	VITEX AGNUS CASTUS 'SHOAL CREEK'	SHOAL CREEK CHASTE TREE	4'	1.5"		8	18%	DEC	LOCALLY-ADAPTED	MULTI-STEM
SHRUBS	3									
ABE	ABELIA GRANDIFLORA 'ROSE CREEK'	ROSE CREEK GLOSSY ABELIA	18"		3-GAL	26	22%	EVG	NATIVE	
DEB	BUXUS SEMPERVIRENS 'SUFFRUTICOSA'	DWARF ENGLISH BOXWOOD	18"		3-GAL	14	12%	EVG	LOCALLY-ADAPTED	
OLH	HYDRANGEA QUERCIFOLIA 'DOUGHILL'	GATSBY STAR ® OAKLEAF HYDRANGEA	18"		3-GAL	19	16%	DEC	NATIVE	
EFC	JUNIPERUS VIRGINIANA 'EMERALD FEATHER'	EMERALD FEATHER ® DWARF EASTERN RED CEDAR	18"		3-GAL	6	5%	EVG	NATIVE	
GOJ	JUNIPERUS VIRGINIANA 'GREY OWL'	GREY OWL JUNIPER	18"		3-GAL	21	18%	EVG	NATIVE	
WBM	ILEX VERTICILATA 'SOUTHERN GENTLEMAN'	SOUTHERN GENTLEMAN MALE WINTERBERRY HOLLY	18"		3-GAL	3	3%	DEC	NATIVE	
WBF	ILEX VERTICILIATA 'WINTER RED'	WINTER RED FEMALE WINTERBERRY HOLLY	18"		3-GAL	21	18%	DEC	NATIVE	
WM	MYRICA CERIFERA	WAX MYRTLE	18"		3-GAL	8	7%	EVG	NATIVE	





CONSTRUCTION

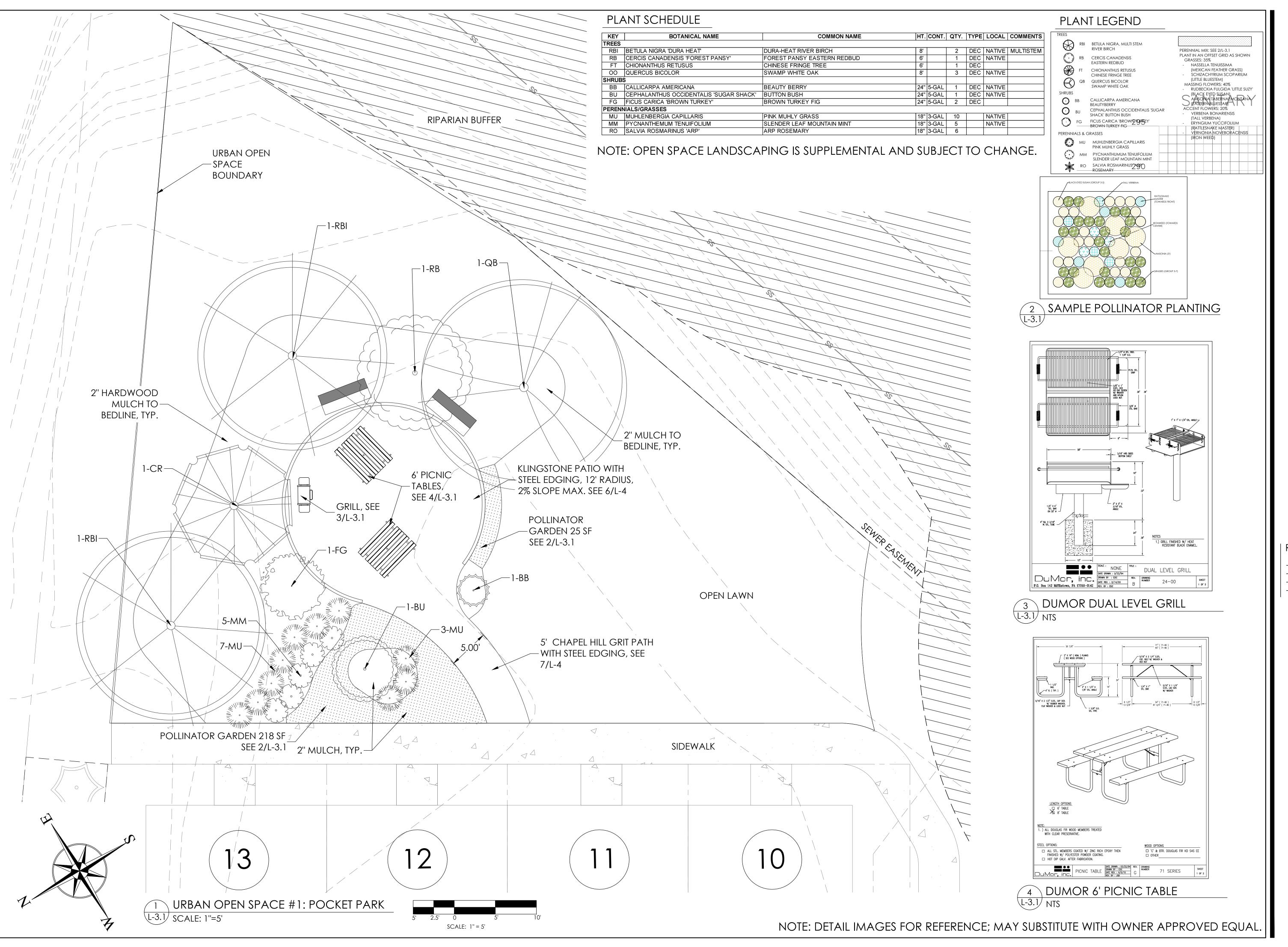
NOT FOR

| REVISIONS:

TOWNHOME

SCALE: **AS NOTED** DRAWN BY: PMP, MA PROJECT # 05/05/2025 SHEET

OF





DBA TMTLA ASSOCIATES



**PRELIMINARY NOT FOR** CONSTRUCTION

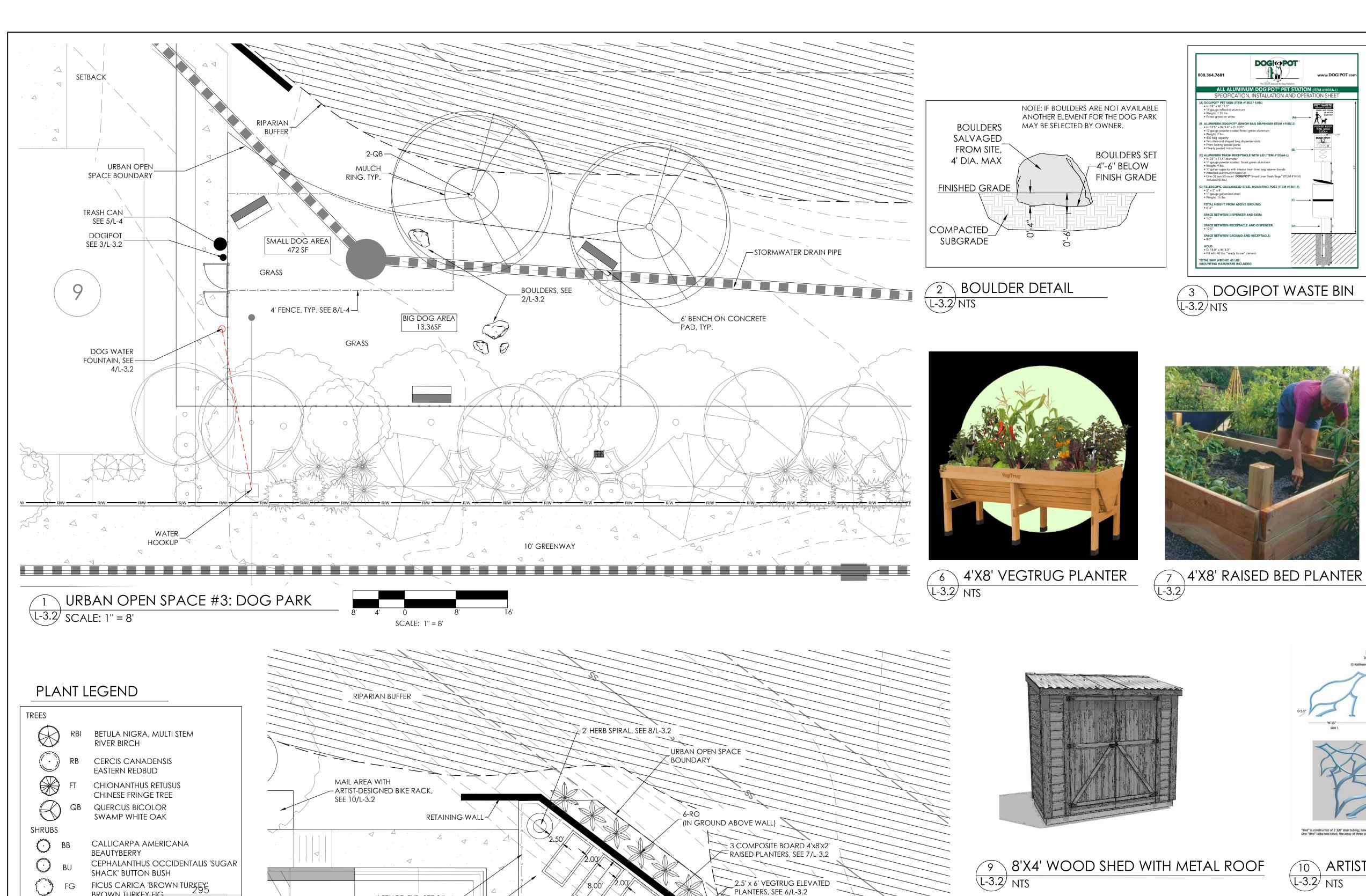
| REVISIONS:

AN OPEN SPACE PLAN DISON RIDGE TOWNHOMES SCALE:

AS NOTED DRAWN BY: PMP, MA PROJECT # 05/05/2025

SHEET L-3.1

OF 5



SCALE: 1'' = 8'

BROWN TURKEY FIG

MU MUHLENBERGIA CAPILLARIS

MM PYCNANTHUMUM TENUIFOLIUM SLENDER LEAF MOUNTAIN MINT

RO SALVIA ROSMARINUS 'ARP'

PINK MUHLY GRASS

PERENNIALS & GRASSES

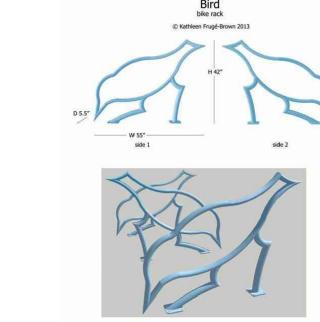
4' FENCE, TYP. SEE 8/L-4—

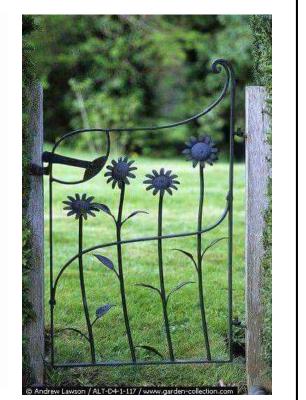
ARTIST-DESIGNED GATE WITH TRELLIS, SEE 10/L-3.2

5 URBAN OPEN SPACE #2: COMMUNITY GARDEN

CHAPEL HILL GRIT SURFACE, SEE 7/L-4~

L-3.2 SCALE: 1" = 8'





8 HERB SPIRAL PLANTER

L-3.2 NTS

10 ARTIST-DESIGNED BIKE RACK & GATE

NOTE: DETAIL IMAGES FOR REFERENCE; MAY SUBSTITUTE WITH OWNER APPROVED EQUAL

#### PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	HT.	CONT.	QTY.	TYPE	LOCAL	COMMENTS
TREES			•					
RBI	BETULA NIGRA 'DURA HEAT'	DURA-HEAT RIVER BIRCH	8'		2	DEC	NATIVE	MULTISTEM
RB	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY EASTERN REDBUD	6'		1	DEC	NATIVE	
FT	CHIONANTHUS RETUSUS	CHINESE FRINGE TREE	6'		1	DEC		
00	QUERCUS BICOLOR	SWAMP WHITE OAK	8'		3	DEC	NATIVE	
SHRUB	5							
BB	CALLICARPA AMERICANA	BEAUTY BERRY	24"	5-GAL	1	DEC	NATIVE	
BU	CEPHALANTHUS OCCIDENTALIS 'SUGAR SHACK'	BUTTON BUSH	24"	5-GAL	1	DEC	NATIVE	
FG	FICUS CARICA 'BROWN TURKEY'	BROWN TURKEY FIG	24"	5-GAL	2	DEC		
PERENN	NIALS/GRASSES		•					
MU	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	18"	3-GAL	10		NATIVE	
MM	PYCNANTHEMUM TENUIFOLIUM	SLENDER LEAF MOUNTAIN MINT	18"	3-GAL	5		NATIVE	
RO	SALVIA ROSMARINUS 'ARP'	ARP ROSEMARY	18"	3-GAL	6			

NOTE: OPEN SPACE LANDSCAPING IS SUPPLEMENTAL AND SUBJECT TO CHANGE.



LANDSCAPE 5011

S

PLANNING 27713

ARCHITECTURE SOUTHPARK DRIVE, STE.200 p: (919) 484-8880 e: ini





PRELIMINARY NOT FOR CONSTRUCTION

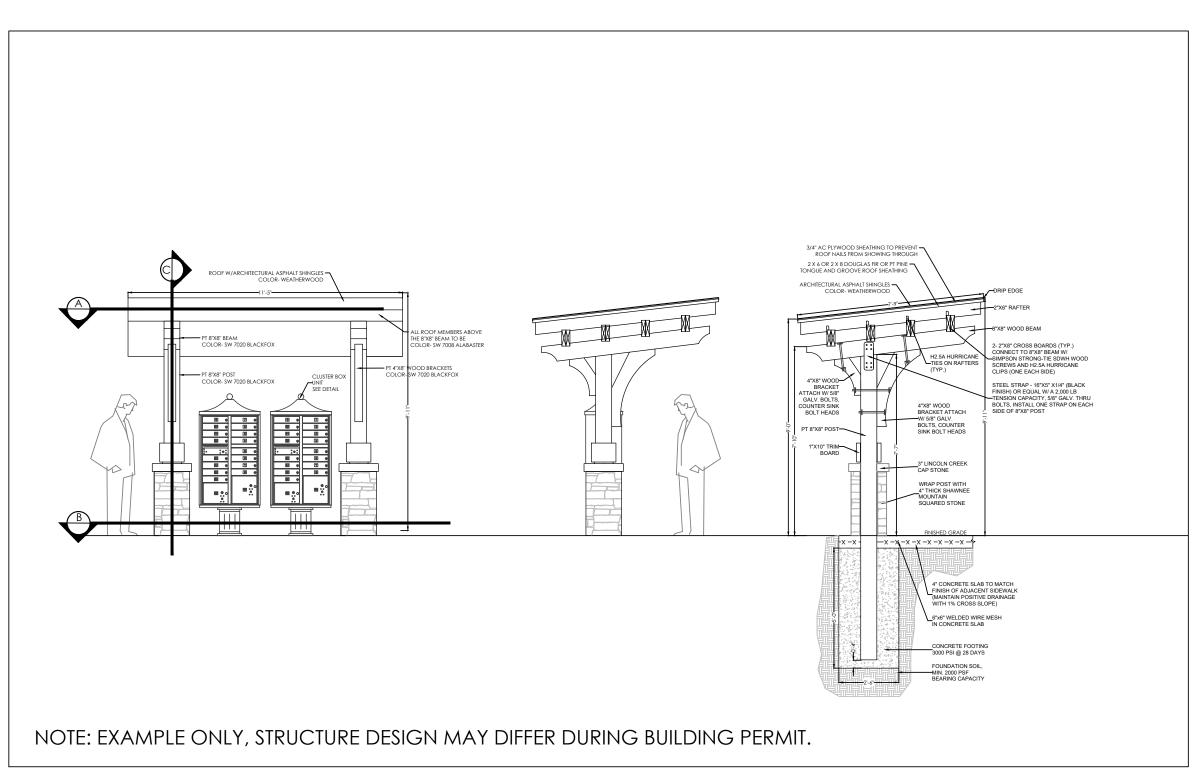
| REVISIONS:

AN OPEN SPACE FADISON RIDGE

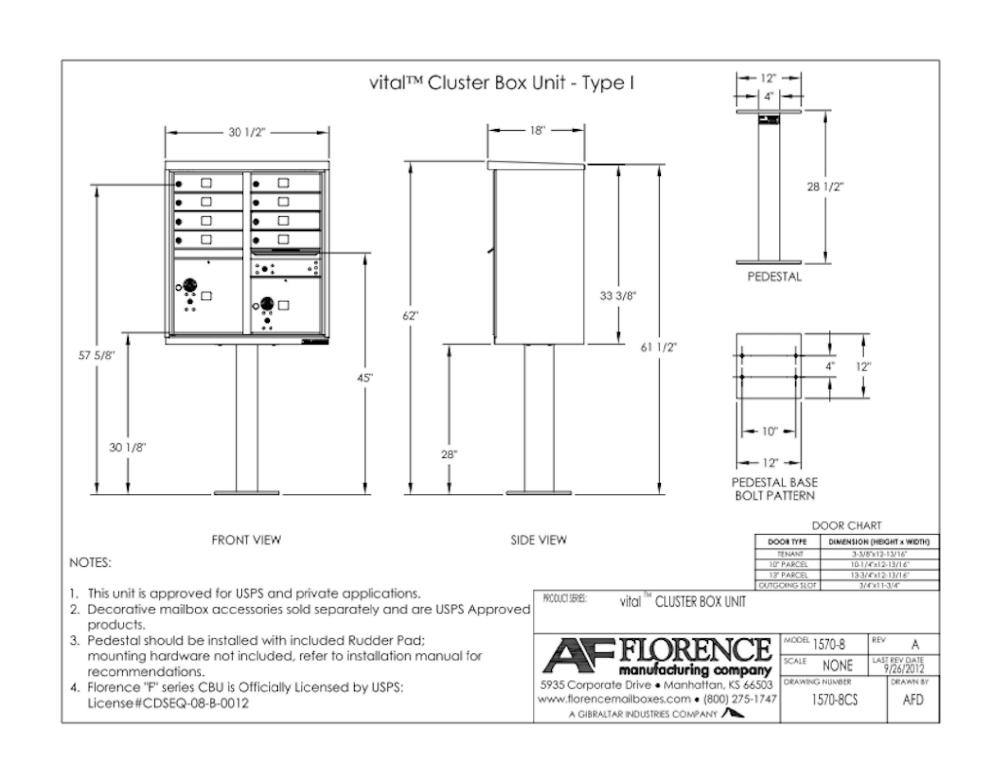
SCALE: AS NOTED DRAWN BY: PMP, MA PROJECT # 05/05/2025 SHEET

OF 5

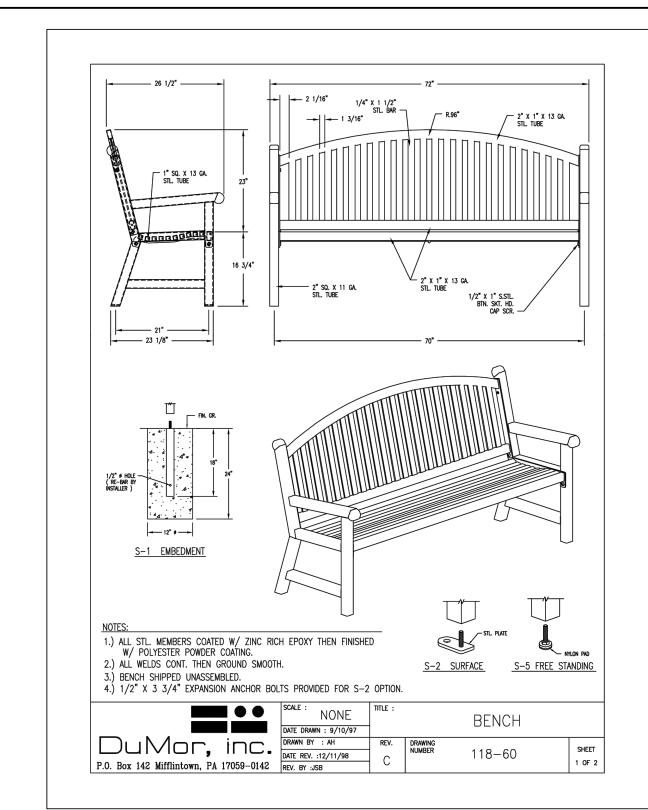
L-3.2



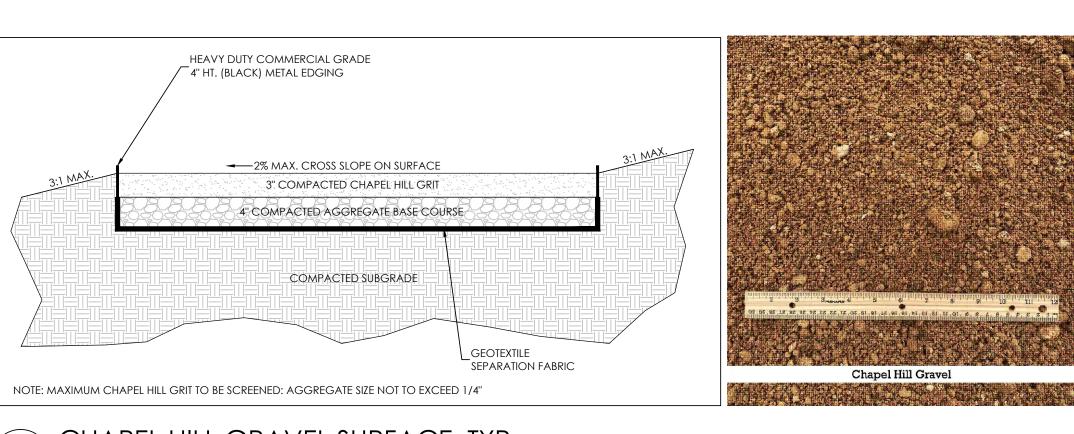








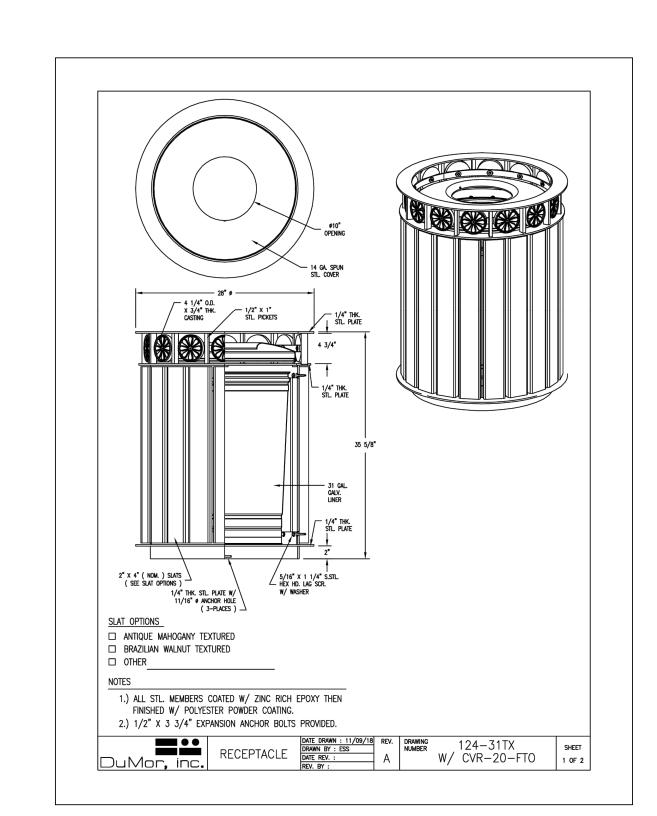
3 6' METAL BENCH, TYP.
L-4 NTS



7 CHAPEL HILL GRAVEL SURFACE, TYP.
L-4 1" = 1'



8 COMMUNITY GARDEN AND DOG PARK FENCE, TYP.
L-4 NTS







PMP, MA
PROJECT #

05/05/2025

SHEET

L-4

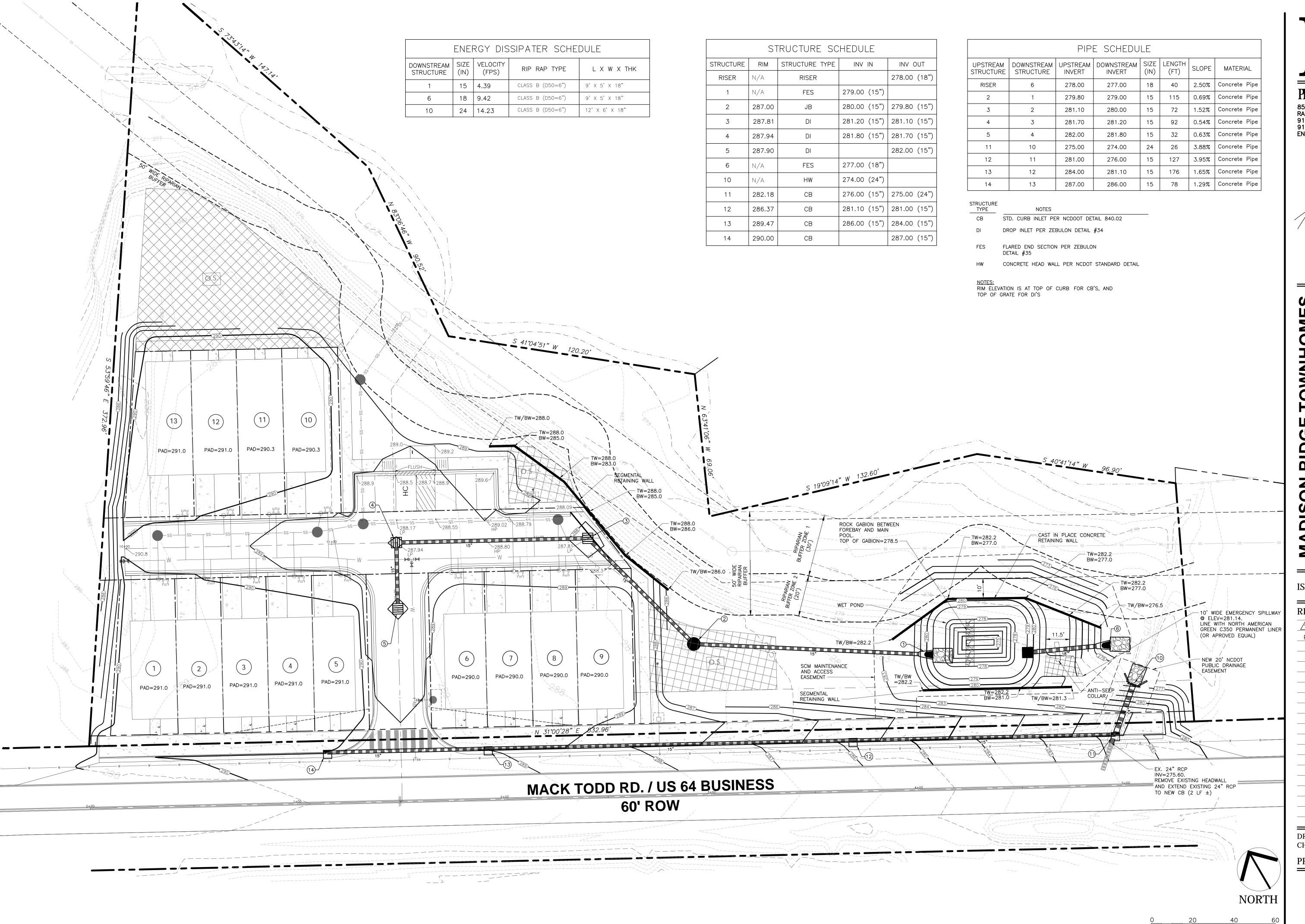
OF 5

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DBA TMTLA ASSOCIATES

PRELIMINARY
NOT FOR
CONSTRUCTION

| REVISIONS:



PIEDMONT LANDDESIGN, PLLC

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



05/06/25

1ADISON RIDGE TOWNHOMES

UED: **06 MAY 20**2

**REVISIONS:** 

06 MAY 2025
PER TOWN/COUNTY COMMENTS

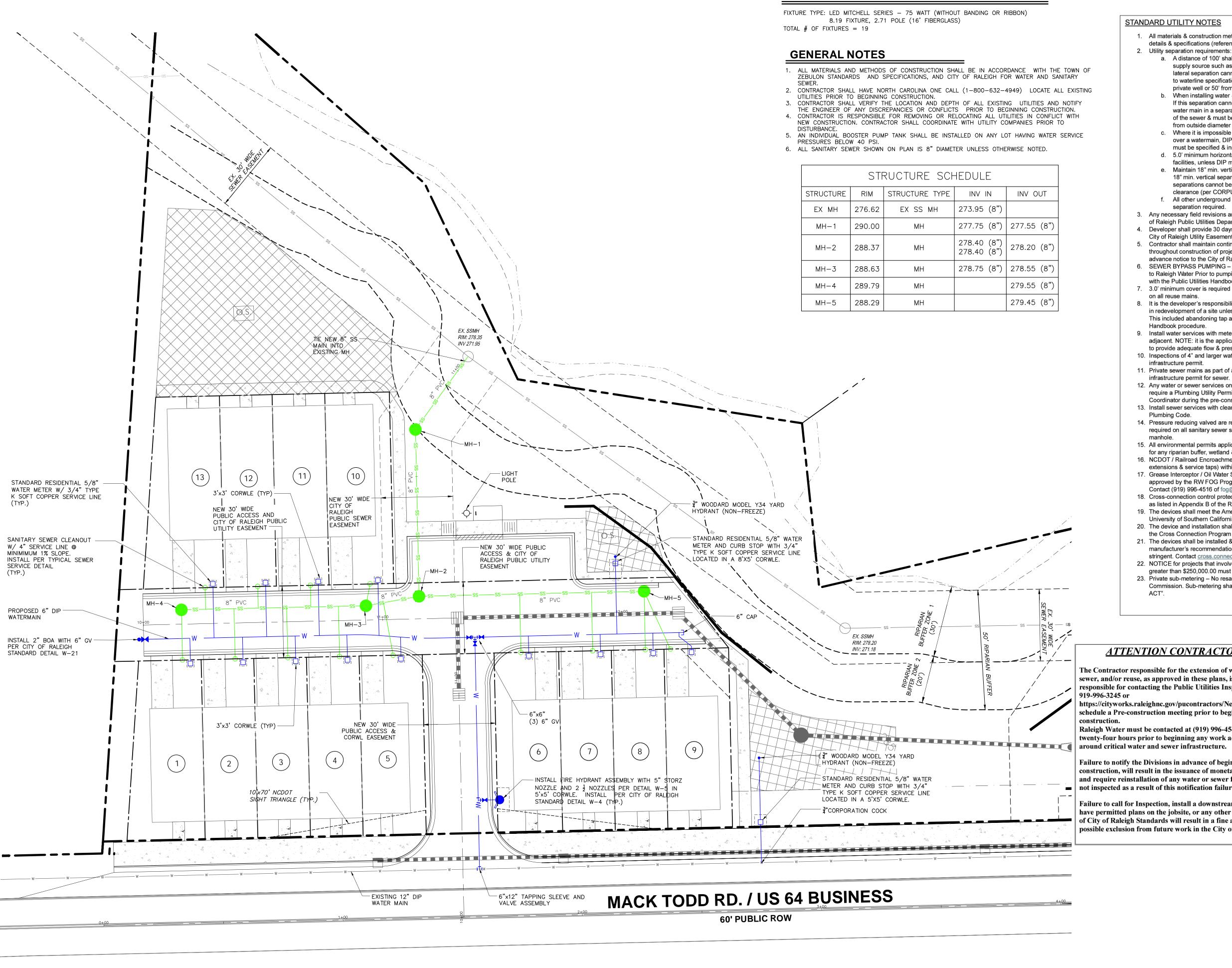
DRAWN BY: MLS
CHECKED BY: MLS

PROJECT: **CPMTRZ** 

GRADING AND DRAINAGE PLAN

DWG. NO. SITE 4

SCALE IN FEET



#### STANDARD UTILITY NOTES

#### STANDARD UTILITY NOTES

LIGHTING NOTES

- 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.
- 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. Where it is impossible to obtain proper separation, or anytime a sanitary sewer main passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to waterline specification.
- 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 18" min. vertical separation at all sanitary sewer & RCP stormdrain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min.
- clearance (per CORPUD details W-41 & S-49). 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. Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property. 5. 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.
- 6. SEWER BYPASS PUMPING A bypass plan sealed by an NC Professional Engineer stall be provided to Raleigh Water Prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook.
- 7. 3.0' minimum cover is required on all water mains & sewer force mains. 4.0' minimum cover is required on all reuse mains.
- 8. 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 included abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure.
- 9. Install 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. 10. Inspections of 4" and larger water mains of the private distribution system will be inspected as part of the
- infrastructure permit.
- 11. Private sewer mains as part of a collection system are permitted and inspected under the private infrastructure permit for sewer.
- 12. Any water or sewer services on private property that will be installed under Construction Drawings may require a Plumbing Utility Permit in the City of Raleigh. Consult with the Engineering Inspection
- Coordinator during the pre-construction meeting on the necessary permits. 13. Install sewer services with cleanouts located at ROW or easement line & spaced per the current NC
- 14. Pressure reducing valved 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
- 15. 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. 16. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main
- extensions & service taps) within state or railroad ROW prior to construction. 17. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC and/or Building Permit.
- Contact (919) 996-4516 of fog@raleighnc.gov for more information. 18. Cross-connection control protection devices are required based on the degree of health hazard involved
- as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.
- 19. The devices shall meet the American Society of Sanitary Engineering (ASSE) standards and be on the
- University of Southern California approval list. 20. The device and installation shall meet the guidelines of Appendix A - Guidelines and Requirements of
- the Cross Connection Program in Raleigh's Service Area.
- 21. The devices shall be installed & tested (both, initial & periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more
- stringent. Contact <a href="mailto:cross.connection@raleighnc.gov">cross.connection@raleighnc.gov</a> for more information. 22. NOTICE for projects that involve an oversized main or urban main replacement. Any City reimbursement
- greater than \$250,000.00 must undergo the public bidding process.
- 23. Private sub-metering No resale of water shall occur without the approval of the North Carolina Utility Commission. Sub-metering shall be in accordance with Section 1400 of the "SAFE DRINKING WATER

#### ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or

https://cityworks.raleighnc.gov/pucontractors/New and schedule a Pre-construction meeting prior to beginning any

Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity

Failure to notify the Divisions 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.

#### Public Water Distribution / Extension System

he 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#

#### 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.

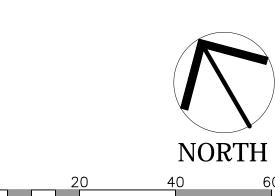
Public Utilities Department Permit #

#### INFRASTRUCTURE CONSTRUCTION PLAN APPROVAL

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION Il Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

SCALE IN FEET

PUBLIC UTILITIES\_



PIEDMONT LANDDESIGN PLIC

8522-204 SIX FORKS ROAD

RALEIGH, NORTH CAROLINA 27615 919.845.7600 PHONE 919.845.7703 FAX ENGR. FIRM LICENSE NO. F-0843



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ISSUED: **06 MAY 2025** 

**REVISIONS:** 

1 06 MAY 2025 PER TOWN/COUNTY COMMENTS

DRAWN BY: MLS

CHECKED BY: MLS PROJECT: **CPMTRZ** 

**UTILITY PLAN** 

#### TEMPORARY DIVERSION **DITCH DIMENSIONS Required Wake County Basin Removal Sequence TOWN OF ZEBULON NOTE: CONSTRUCTION SCHEDULE EROSION CONTROL LEGEND** 1. Schedule a site meeting with the Environmental Consultant to determine if **Diversion Ditch Design** a basin can be removed. Install silt fencing or other temporary erosion SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE BOTTOM WIDTH ALL INSTALLED STORM STRUCTURES AND PIPE WILL TEMPORARY DEPTH ENVIRONMENTAL CONSULTANT. OBTAIN LAND-DISTURBING PERMIT. ALLOWABLE control measures as needed prior to removal of the basin. DIVERSION NEED TO BE CLEANED AND CAMERA FOOTAGE SENT TO LINING TYPE CONTACT KEVIN WATSON WITH THE TOWN OF ZEBULON @919-823-1846 KEVIN WATSON WITH THE TOWN OF ZEBULON PUBLIC LIMITS OF DISTURBANCE DITCH # (FT) SHEAR STRESS Diversion DA Q(10) SLOPE DEPTH SHEAR STRESS Contact NCDEQ – Raleigh Regional Office (919) 791-4200 to determine the Division of Energy, Mineral and Land Resources contact person to receive (KWATSON@TOWNOFZEBULON.ORG) SO HE CAN ATTEND. WORKS PRIOR TO FINAL ACCEPTANCE. (CFS) (FT/FT) (FT) (PSF) LINER TEMPORARY DIVERSION DITCH INSTALL GRAVEL CONSTRUCTION PAD. TEMPORARY DIVERSIONS, SILT dewatering notifications. At least 10 days prior to beginning dew activity, send Email to NCDEQ-DEMLR contact person and copy 2.0 JUTE MAT 1 0.80 0.5 2.89 0.005 0.56 2.00 JUTE MAT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE **BASIN CONVERSION SEQUENCE** —sf——gg—sf——— SILT FENCE Environmental Consultant that met you onsite. The email should include: APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE E&SC Jurisdiction: Wake County, Wake County Project: Name, Number, DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS Sediment Basin Design -SILT FENCE OUTLET 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. 1. DEWATER THE BASIN. PUMP STANDING WATER FROM THE IMMEDIATELY AFTER CONSTRUCTION. TEMPORARY SEDIMENT BASIN USING A DEWATERING DEVICE PRE POST GOVERNING MIN PROVIDED PROVIDED WEIR SKIMMER ORIFICE REQUIRED REQUIRED MIN 3. CALL ENVIRONMENTAL CONSULTANT FOR ONSITE INSPECTION BY THE (E.G., A PUMP WITH A FILTER BAG OR SKIMMER) TO LENGTH DIA DIA BASIN DA DA DA Q25 SA VOLUME W VOLUME ENVIRONMENTAL CONSULTANT, TO OBTAIN CERTIFICATE OF COMPLIANCE. PREVENT DOWNSTREAM SEDIMENT RELEASE. (cf) (ft) (ft) (ft) INLET PROTECTION 3. After receiving positive confirmation from NCDEQ-DEMLR that you may 4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. 2. REMOVE ACCUMULATED SEDIMENT. EXCAVATE AND remove the basin OR on ≥ Day 11, whichever is sooner. Remove Basin(s) 0.5 | 4.11 | 1,788 | 1,800 | 1.0 1.0 5 1,798@279 2,656@279 10 | 1.5 | 0.9 see plan ROUGH GRADE SITE. BEGIN CONSTRUCTION OF NORTHERN RETAINING REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM THE and associated temporary diversion ditches. If pipes need to be extended, WALL. THE SEDIMENT BASIN SHOULD REMAIN IN PLACE AND BASIN BOTTOM, SIDE SLOPES, AND OUTLET STRUCTURES. perform this operation at this time. Fine grade area in preparation for CHECK DAM FUNCTIONING DURING WALL CONSTRUCTION. 3. REMOVE SEDIMENT AND DEBRIS FROM THE OUTLET 5. INSTALL STORM SEWER, AND PROTECT INLETS WITH GRAVEL YARD INLET STRUCTURE. 4. Perform seedbed preparation, seed, mulch and anchor any resulting bare PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS areas immediately. SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC. ) Ground Stabilization\* 4. ADJUST THE BASIN SHAPE, DEPTH, AND SIDE SLOPES TO MATCH THE PERMANENT SCM DESIGN. THE SOUTHERN 5. Install velocity dissipators and/or level spreaders as required on the Stabilization Stabilization Time 6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH Site Area RETAINING WALL CAN BE CONSTRUCTED AT THIS TIME. Erosion Control Plan. VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED THE NORTHERN WALL WILL HAVE ALREADY BEEN Description Time Frame Exceptions AREAS PER GROUND STABILIZATION TIME FRAMES. THE RIPARIAN BUFFER Perimeter dikes, INSTALLED BY THIS TIME. 6. When site is fully stabilized, call Environmental Consultant for approval of SHALL USE THE "RIPARIAN BUFFER MIX" AS SHOWN ON THE DETAIL swales, ditches removing remaining temporary erosion control measures and advice on 5. SEED OR SOD SIDE SLOPES WITH GRASSES SPECIFIED IN and slopes when site can be issued a Certificate of Completion. Note: A meeting THE SCM DESIGN. INSTALL AQUATIC PLANTS. High Quality should also be scheduled with the Environmental Consultant to determine 7. CONVERT BASIN TO PERMANENT SCM. APPROVAL FROM WAKE COUNTY Water (HQW) when a basin may be converted for stormwater use. Some municipalities IS REQUIRED PRIOR TO CONVERSION. SEE BASIN REMOVAL SEQUENCE. THE SOUTHERN RETAINING WALL WILL BE CONSTRUCTED AT THIS TIME. If slopes are 10' or Slopes steeper ess in length and are NOTE: APPROVAL FROM WAKE COUNTY IS REQUIRED PRIOR TO 7 days 8. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED than 3:1 not steeper than 2:1 CONVERTING BASIN TO PERMANENT SCM. COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR INSPECTION BY 4 days are allowed THE ENVIRONMENTAL CONSULTANT. 7-days for slopes Slopes 3:1 or greater than 50 fee 9. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, in length SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES All other areas (except for SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED NOW.. with slopes flatter **GENERAL EROSION CONTROL NOTES** perimeters and than 4:1 HOW Zones) WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE ALL SEDIMENT BASINS SHALL HAVE A 15' MAINTENANCE EASEMENT. "Extensions of time may be approved by the permitting authority INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A WHICH IS TO BE IN EFFECT ONLY UNTIL THE BASIN IS REMOVED. pased on weather or other site-specific conditions that make compliance CERTIFICATE OF COMPLETION. SEDIMENT SHALL BE REMOVED FROM BASINS WHEN SEDIMENT STORAGE npracticable." (Section II.B(2)(b)) PROPOSED 30' REACHES 50%. SEDIMENT BASINS ARE TO REMAIN IN PLACE DURING SANITARY SEWER THE HOME CONSTRUCTION PHASE OF THE PROJECT AND ONLY REMOVED WITH APPROVAL FROM THE WAKE COUNTY WATERSHED EAESMENT STABILIZATION NOTES MANAGER **DISTURBED** 3. ALL SEDIMENT BASINS REQUIRE BAFFLES INSTALLED PER DETAILS ON DETAIL SHEET. SLOPE 3:1 AND FLATTER AREA: DIVERSIONS SHALL BE MODIFIED AS NEEDED TO ENSURE SEDIMENT LADEN WATER GOES INTO THE APPROPRIATE BASIN AT ALL TIMES. THE CONTRACTOR WILL NEED TO CONTACT THE DESIGN ENGINEER TO DETERMINE IF FLOCCULANTS WILL BE REQUIRED DURING CONSTRUCTION. 3:1 TO 2:1 SLOPE SLOPE ADAPTIVE PLANTS (SHRUBS AND VINES) RIP-RAP (OR AS APPROVED BY GEO-TECH) 2:1 TO 1.5:1 1.6 AC STEEPER THAN:1.5 TO 1 RETAINING WALL \* SLOPES OF 2:1 OR STEEPER TO BE STABILIZED IMMEDIATELY WITH EXCELSIOR NETTING OR EQUAL **SOIL STOCKPILE NOTES** \*EROSION CONTROL MATTING SUFFICIENT FOR STABILIZATION IS SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED REQUIRED FOR ALL SLOPES GREATER THAN 3:1 AND SLOPES AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN A GREATER THAN 5' TALL. 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 COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY A NEW RESPONSIBLE PARTY FOR THAT THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDIN AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL). 5. HEIGHT SHALL NOT EXCEED 35' TEMPORARY DIVERSION DITCH #1 SEDIMENT BASIN #1 BOTTOM=277.0 BERM=282.2 SPILLWAY=10'LONG @ ELEV=281.2 SKIMMER=6" DIAMETER W/0.9" ORIFICE USE PERMANENT RISER STRUCTURE LENGTH X WIDTH = 100' X 30'AVG. @ ELEV 281.2 BASIN DEWATERING BAG AND 20' LONG PAD LOCATION - 9'x5'x18"/ CLASS B ENERGY DISSIPATER TOPSOIL STOCKPILE SLOPE DRAIN WITH 4'x4'x18" CLASS B ENERGY DISSIPATER -50' X 30' GRAVEL CONSTRUCTION CHECK DAM (TYP) -ENTRANCE -SILT FENCE TO REMAIN IN PLACE DURING CLEARING TO PREVENT WATER FROM CONCRETE WASHOUT -ENTERING EXISTING DITCH INSTALL TEMPORARY 15" RCP CROSS PIPE UNDER CONSTRUCTION ENTRANCE IF COIR BAFFLES-FIELD CONDITIONS WARRANT SPILLWAY LOCATION-MACK TODD RD. / US 64 BUSINESS **60' PUBLIC ROW**

PIEDMONT LANDDESIGN PLLC 8522-204 SIX FORKS ROAD RALEIGH, NORTH CAROLINA 27615 919.845.7600 PHONE 919.845.7703 FAX

ENGR. FIRM LICENSE NO. F-0843

TODE

ISSUED:

**REVISIONS:** 

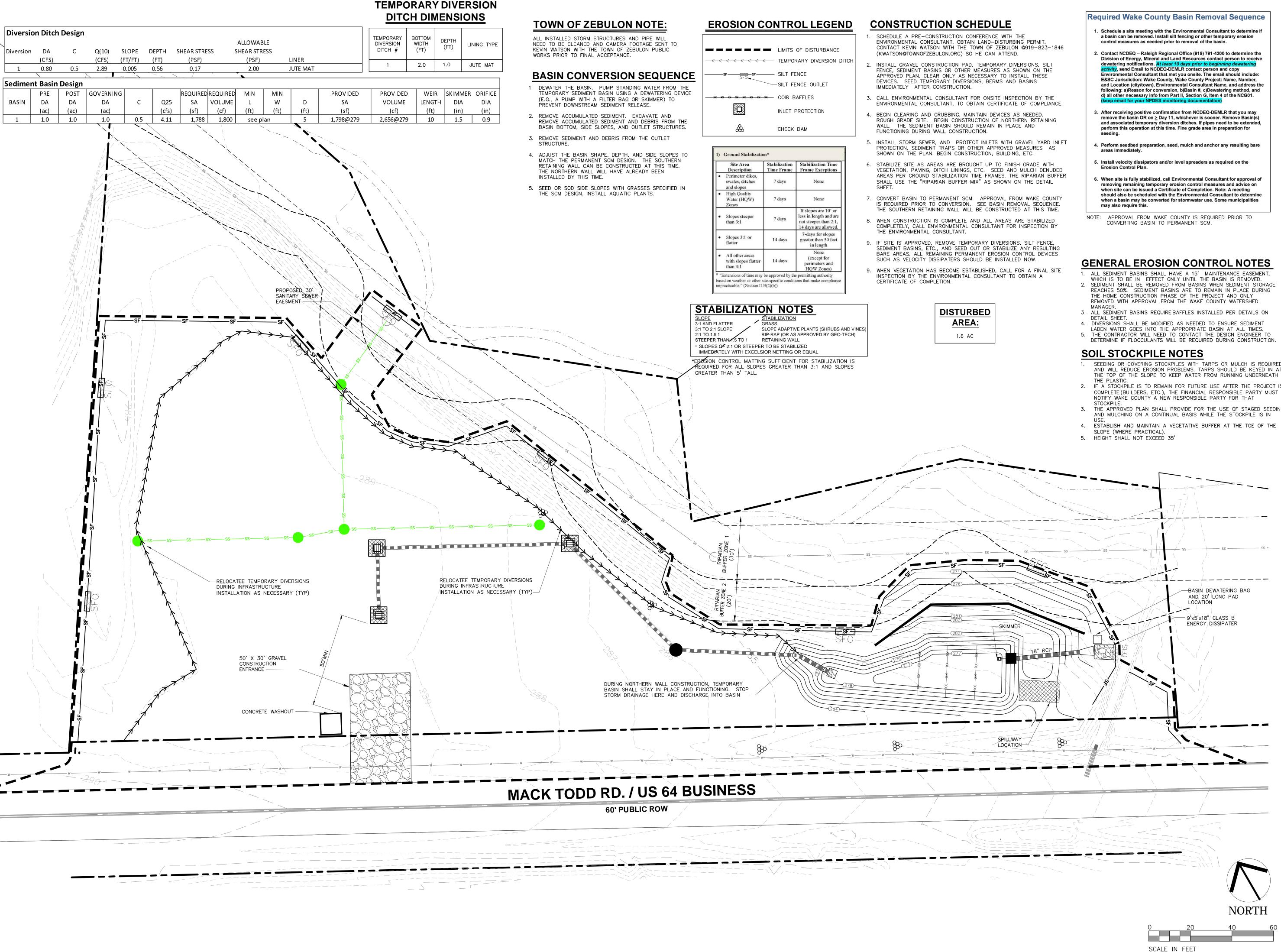
<u>∕1</u>\ 06 MAY 2025 PER TOWN/COUNTY COMMENTS

DRAWN BY: MLS CHECKED BY: MLS

PROJECT: **CPMTRZ** 

STAGE ONE **EROSION CONTROL PLAN** 

SCALE IN FEET



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TODE

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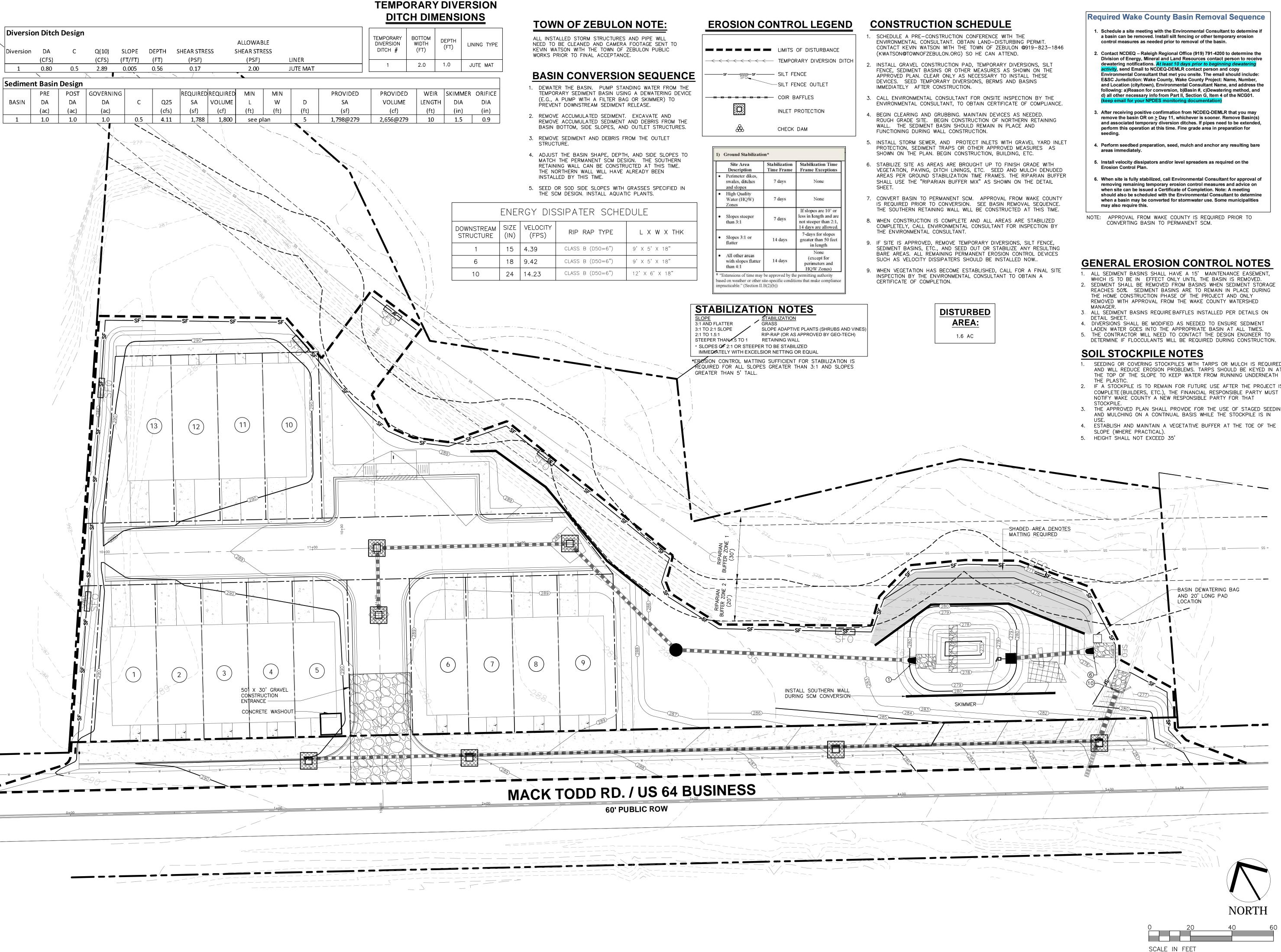
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DRAWN BY: MLS

CHECKED BY: MLS PROJECT: **CPMTRZ** 

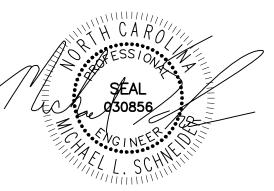
**STAGE TWO EROSION CONTROL PLAN** 

DWG. NO. SITE 6A



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919.845.7703 FAX ENGR. FIRM LICENSE NO. F-0843



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ISSUED: 06 MAY 20

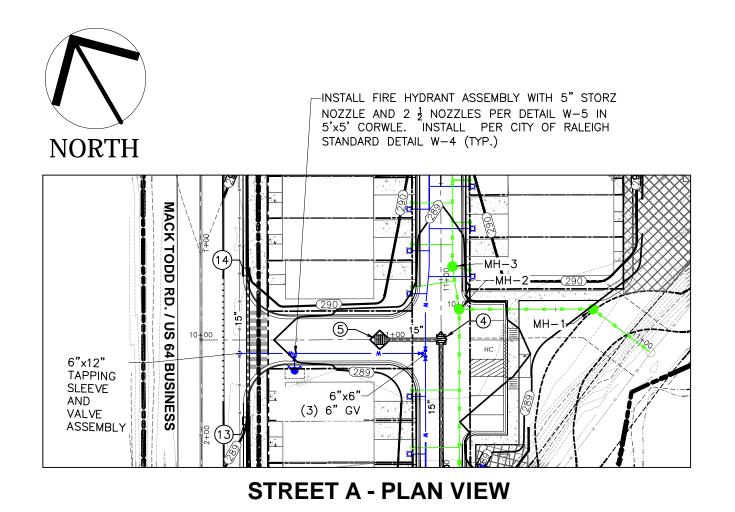
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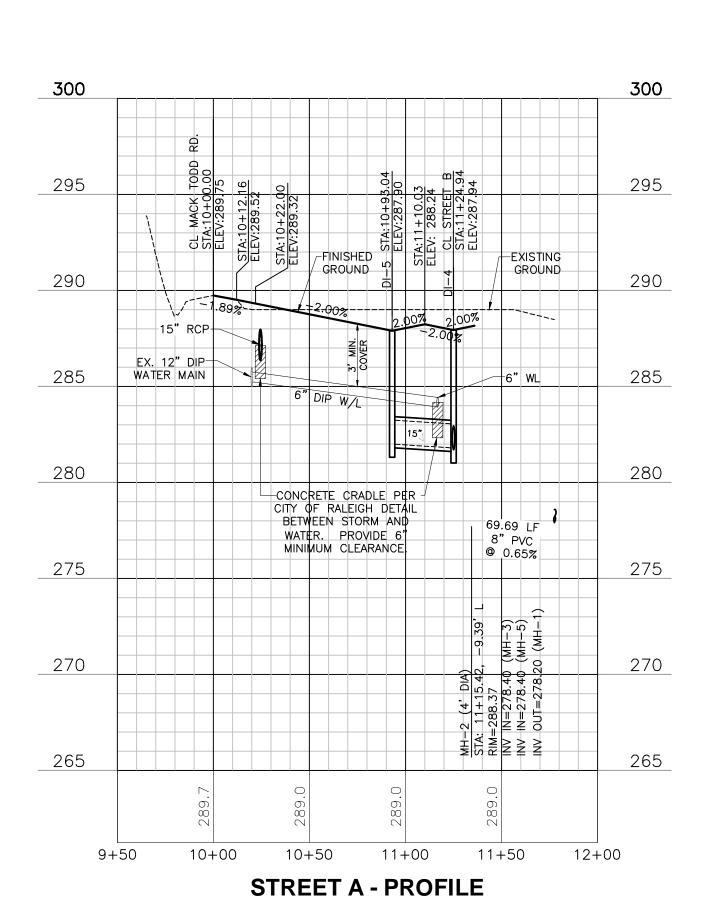
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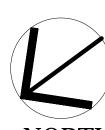
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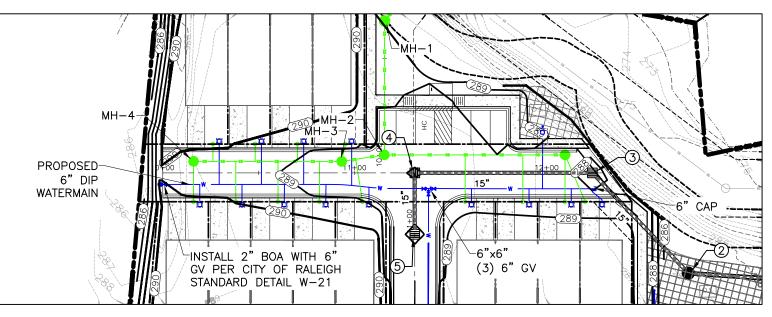
PROJECT: CPMTRZ

STAGE THREE EROSION CONTROL PLAN

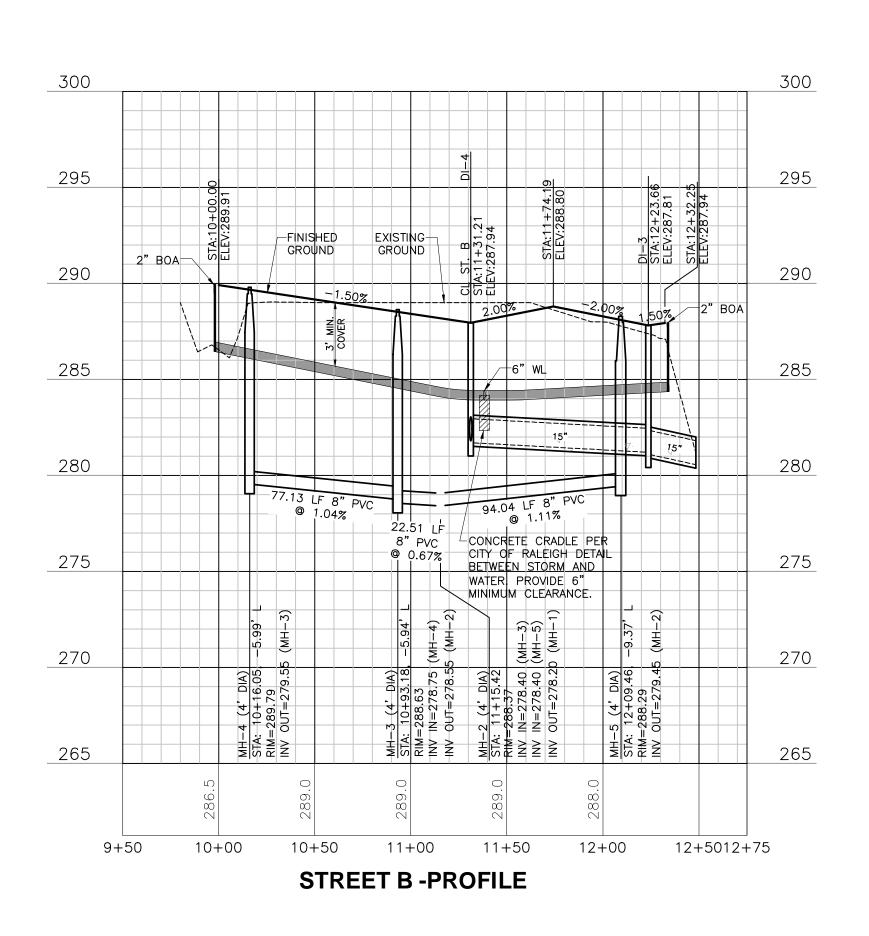


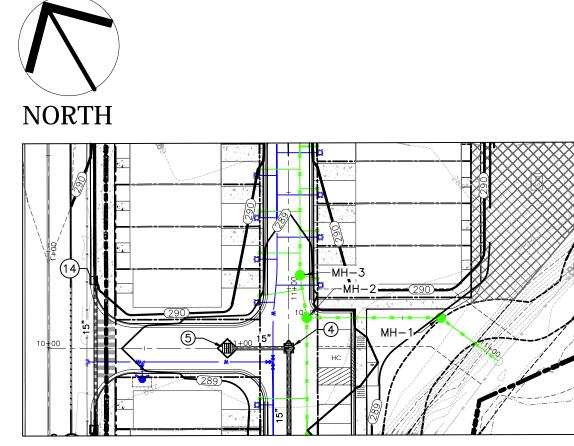




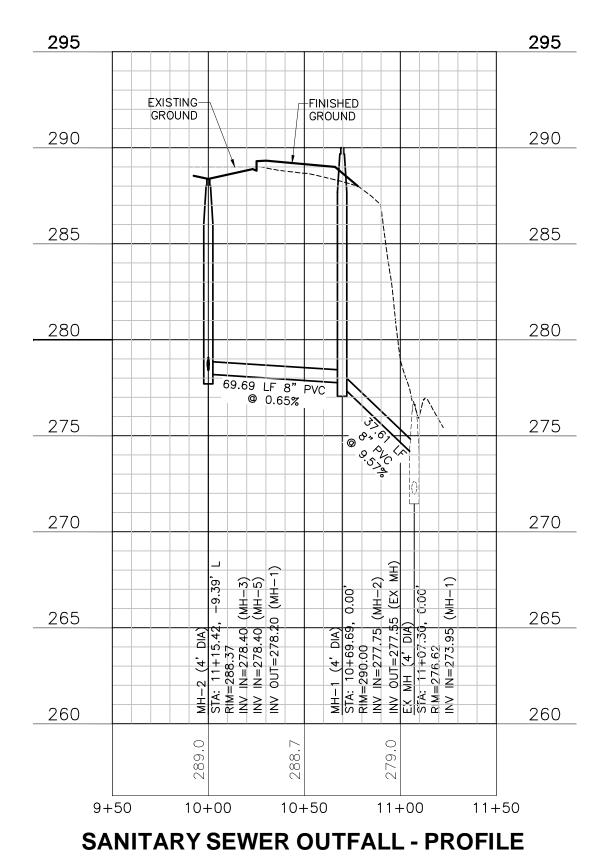


STREET B - PLAN VIEW





**SANITARY SEWER OUTFALL - PLAN VIEW** 



**ATTENTION CONTRACTORS** 

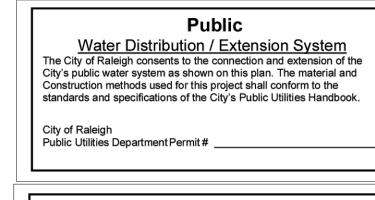
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Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

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**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 DepartmentPermit#



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ISSUED: **06 MAY 2025** 

**REVISIONS:** 

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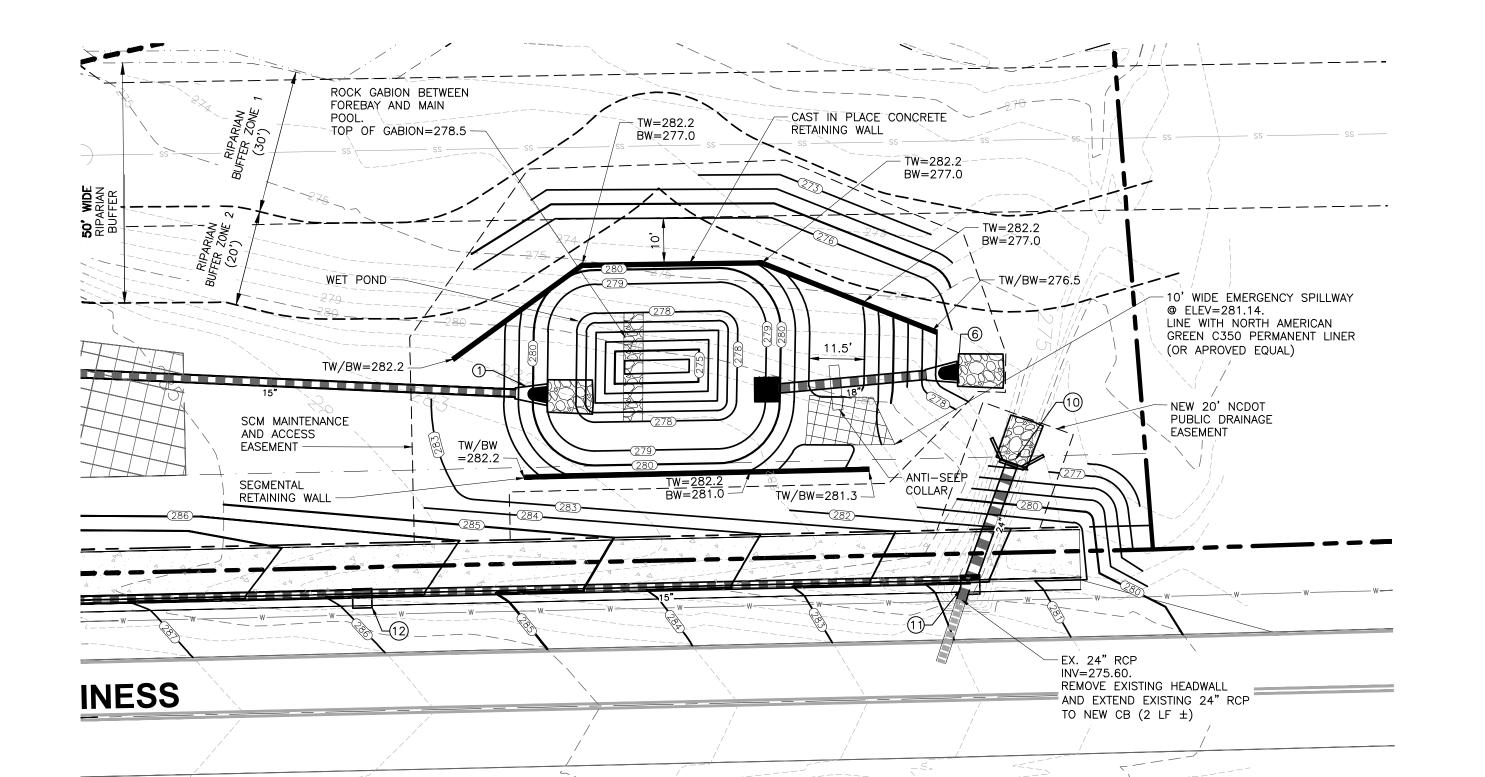
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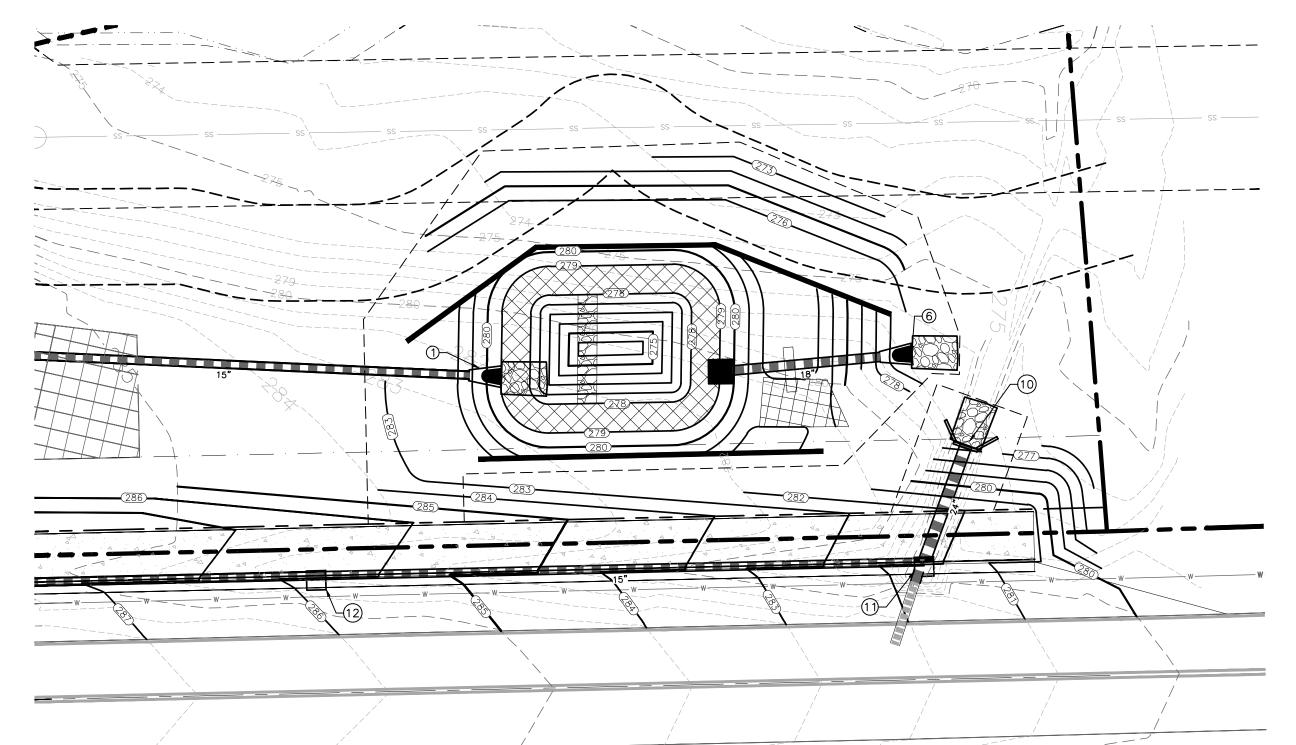
PER TOWN/COUNTY COMMENTS

DRAWN BY: MLS CHECKED BY: MLS

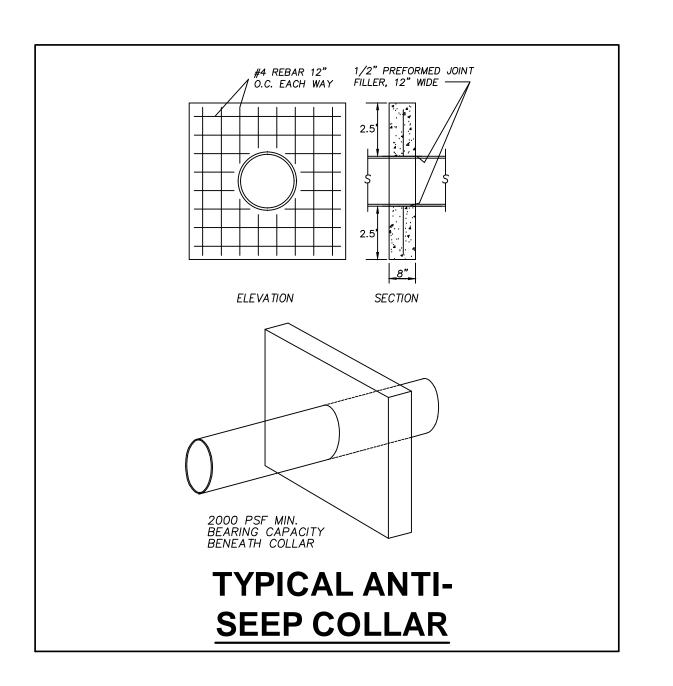
PROJECT: **CPMTRZ** 

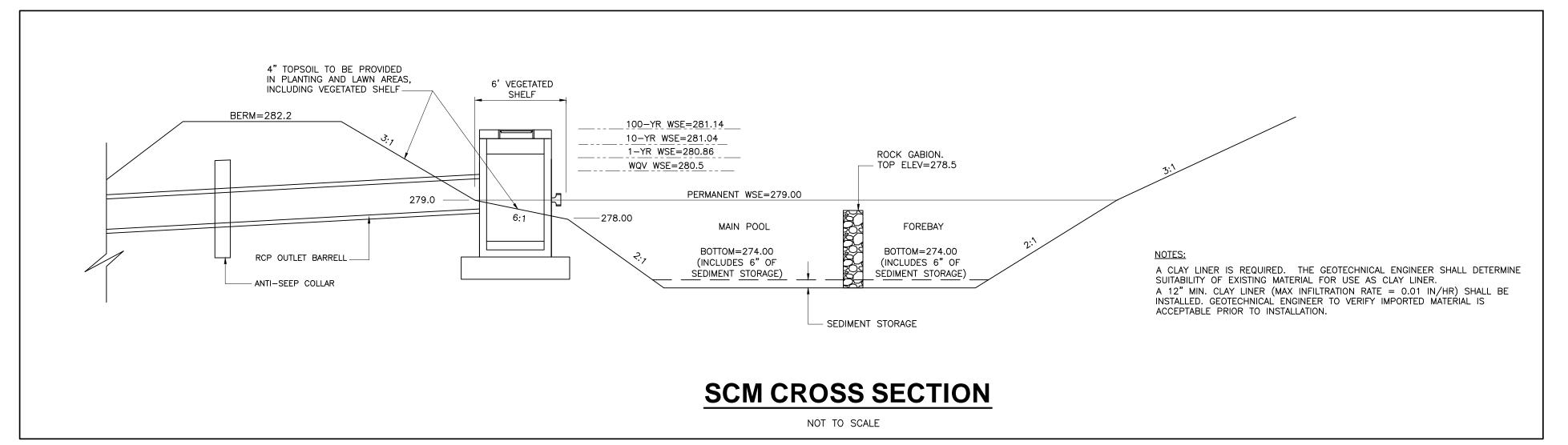
STREETS A & B, AND SS OUTFALL **PLAN & PROFILES** 

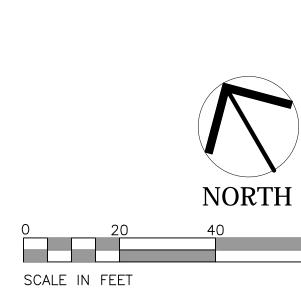




#### 9" OPENING ON ALL SIDES — -GRATED TOP TO ACT AS TRASH RACK BERM=282.2 . PRECAST BOX AND PIPE SHALL BE WATER TIGHT. 2. SUBGRADE SHALL BE COMPACTED 100-YR WSE=281.14 TO 95% MAX DENSITY AS DETERMINED BY ASTM D-698 AT ITS 10-YR WSE=281.04 OPTIMUM MOISTURE CONTENT $\pm$ 2%. RISER CREST ELEV=280.8 — STRUCTURAL SHOP DRAWINGS TO BE PREPARED AND SEALED BY 1-YR\_WSE=280.86 STRUCTURAL ENGINEER AND SUBMITTED FOR APPROVAL. WQV WSE=280.5 - INV=278.00 18" RCP (O-RING) 279.00 - PERM W.S.E. -NEW 6" PVC DRAWDOWN PIPE INV. ELEV.=279.00 USE SCH 40 PVC PIPE AND TEE AND INSTALL TO EXTEND DRAWDOWN TO 6" BELOW AND ABOVE PERMANENT POOL ELEVATION. INSTALL SOLID SCREW CAP ON TOP AND SCREW CAP WITH 0.8" DRILLED HOLE ON BOTTOM. \* ATTACH TEMPORARY SKIMMER AT THIS LOCATION WHILE BASIN IS BEING USED AS A SEDIMENT BASIN PRECAST 4'X4' (INSIDE DIMENSIONS) CONCRETE BOX BOTTOM=274.0 6' x 6' x 1' THICK CONCRETE BASE **SCM OUTLET STRUCTURE**







#### **SCM PLANT SCHEDULE**

REQUIRED PLANTS	S BASED	ON 746 S.F. = 50 PLANTS / 200	) S.F. (746 S.F.) = 187 PLANTS		
PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SPACING
	62	ASCLEPIAS INCARNATA	SWAMP MILKWEED	2" PLUG	2' O.C.
	62	CAREX TENERA	QUILL SEDGE	2" PLUG	2' O.C.
	63	CHELONE GLABRA	WHITE TURTLEHEAD	2" PLUG	2' O.C.

PD

PIEDMONT LAND DESIGN, PLI

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SE TOWNHOMES

901 MACK TODD ROAD ZEBULON, NORTH CAROLI

ISSUED: **06 MAY 2025** 

**REVISIONS:** 

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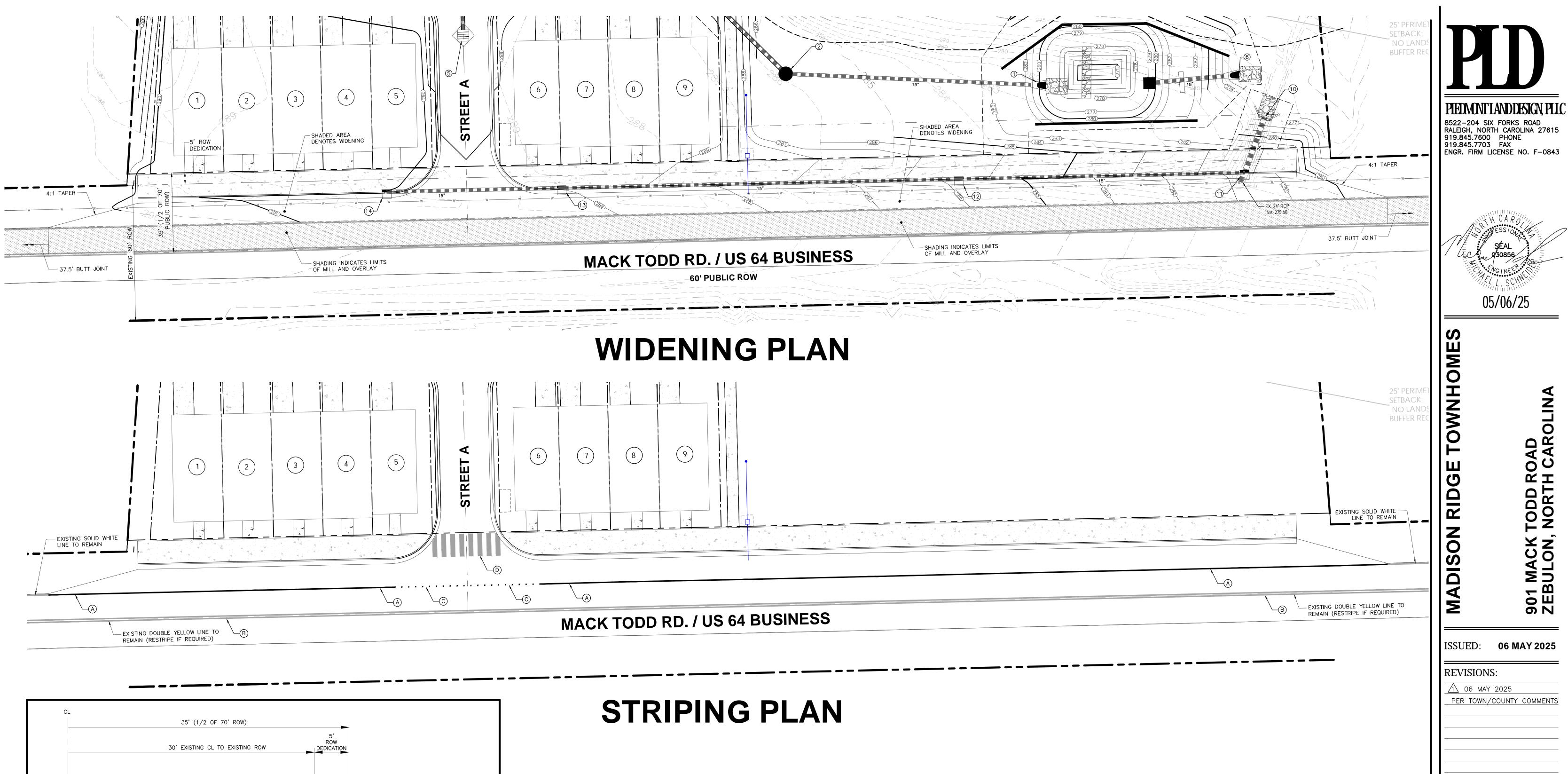
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PER TOWN/COUNTY COMMENTS

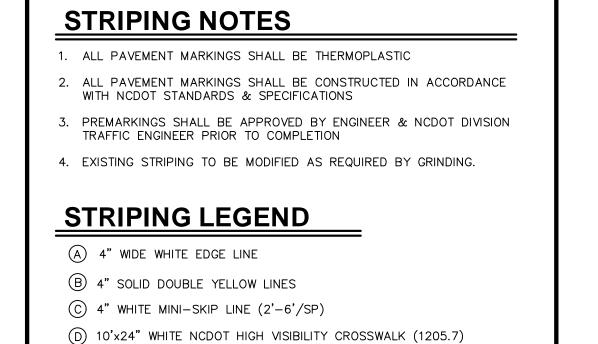
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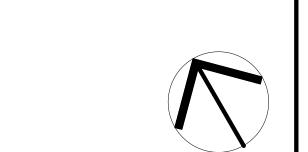
PROJECT: **CPMTRZ** 

**SCM DETAIL** 



### 19.0' EXISTING CL TO NEW BOC (1/2 OF 28' B-B) 2.5" CURB & GUTTER — 9.9**'**± 12'± EXISTING ROADWAY NEW ASPHALT SIDEWALK 1.5" MILL AND OVERLAY OVER ENTIRE WIDTH OF EXISTING LANE NEW 30" CURB & GUTTER —BASE LAYER SHALL EXTEND 6" BEHIND CURB IF USING B25.0C AND 12" IF USING 10" ABC EXISTING EDGE OF ASPHALT SHOULD BE SAWCUT STRAIGHT BEFORE BEING PAVED TO ——— PAVEMENT SECTION WITHIN PUBLIC ROW: MATCH EXISTING SLOPE UNLESS 5" B25.0C (MAY USE 10" ABC IF OVER 6' WIDE) OTHERWISE INDICATED ON CROSS SECTIONS — MACK TODD ROAD **TYPICAL WIDENING SECTION**



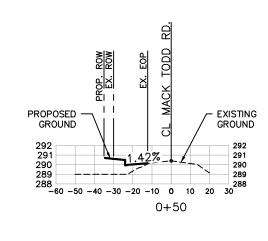


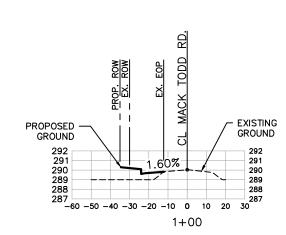
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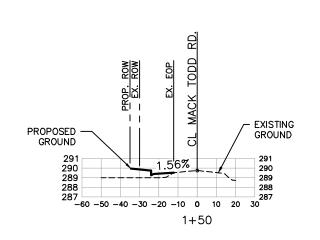
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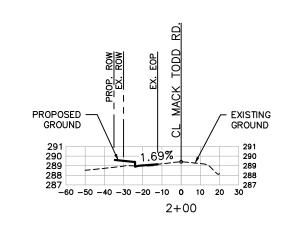
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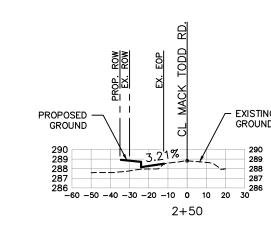
MACK TODD ROAD **WIDENING PLAN** 

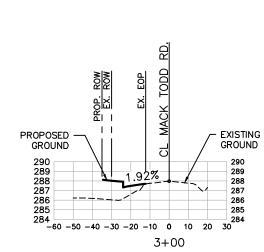


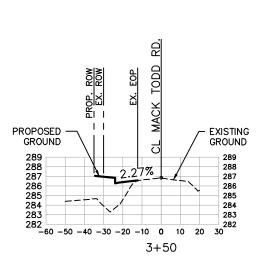


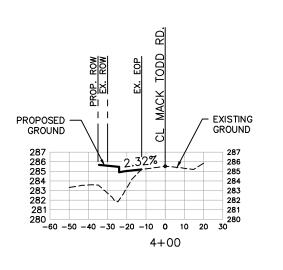


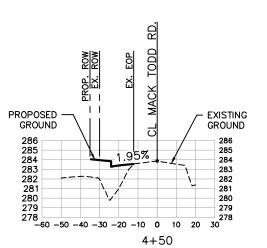


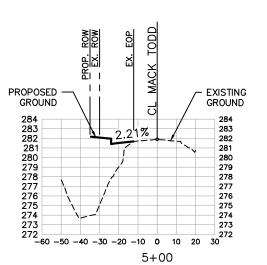












#### ATTENTION CONTRACTORS

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Raleigh Water must be contacted at (919) 996-4540 at least

Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify the Divisions 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.

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# 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 See digital signature

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
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01 MACK TODD ROAD

ISSUED: **04 FEB 2025** 

901 MACK TODD ROAD ZEBULON, NORTH CAROLINA

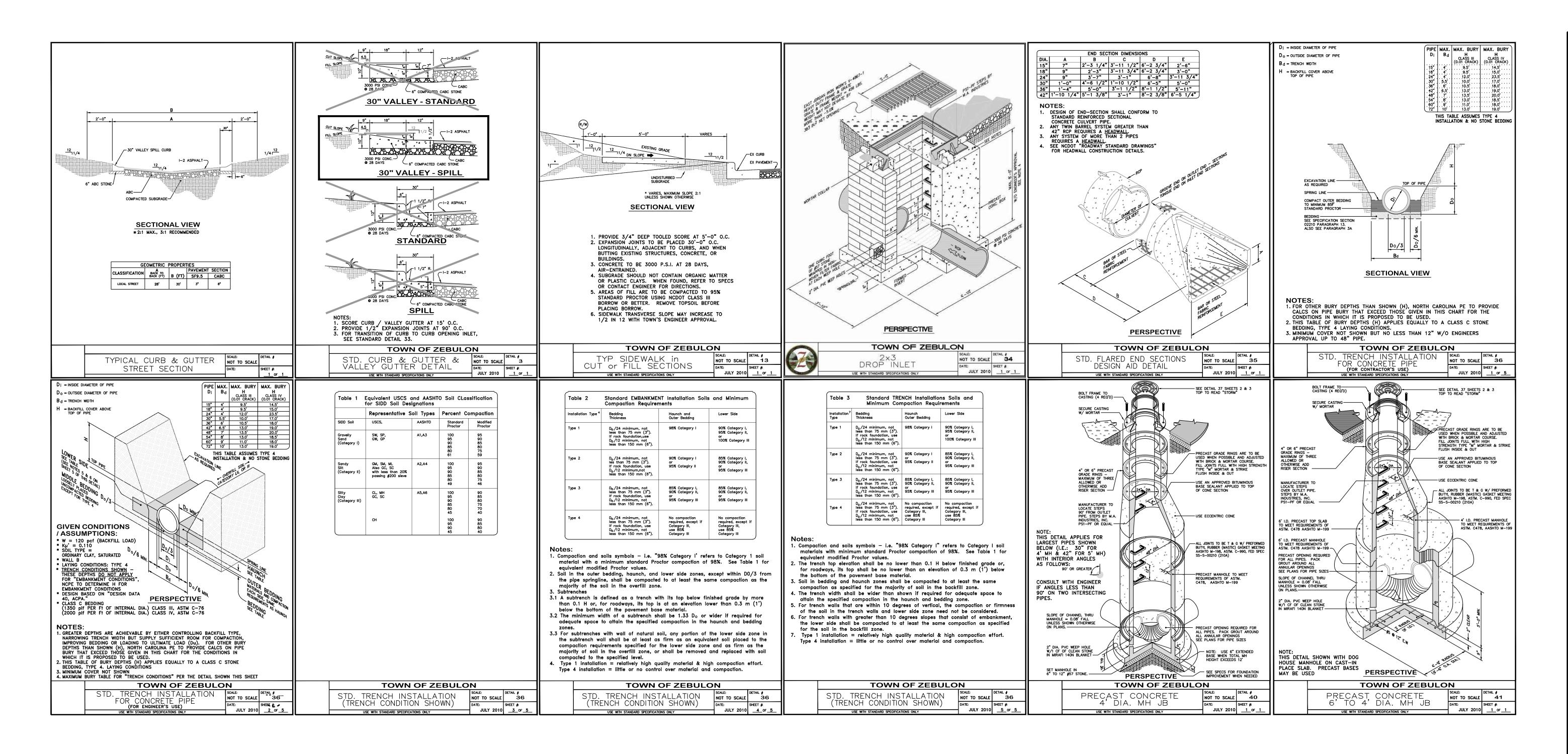
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DRAWN BY: MLS
CHECKED BY: MLS

PROJECT: CPMTRZ

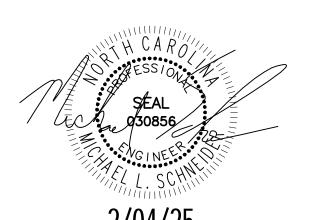
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MACK TODD ROAD CROSS SECTIONS



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901 MACK TODD ROAD ZEBULON, NORTH CAROLIN

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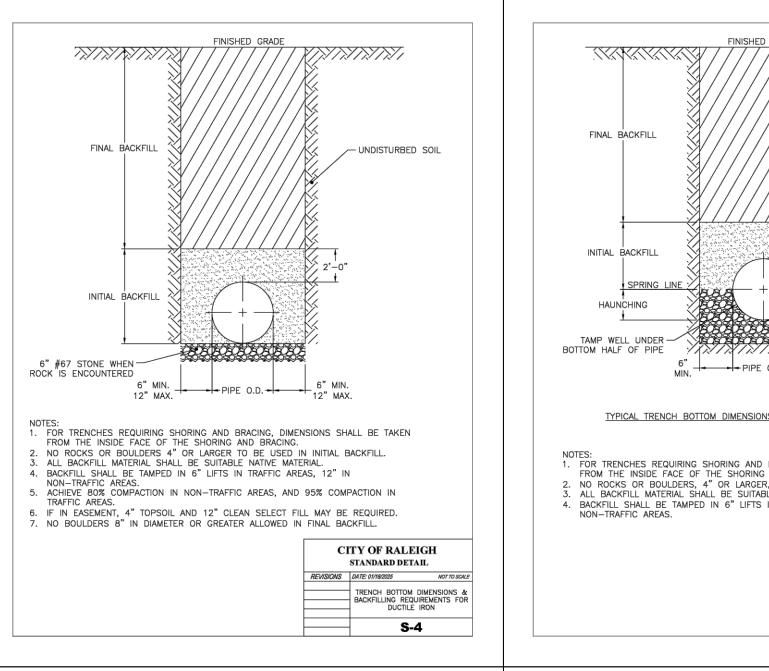
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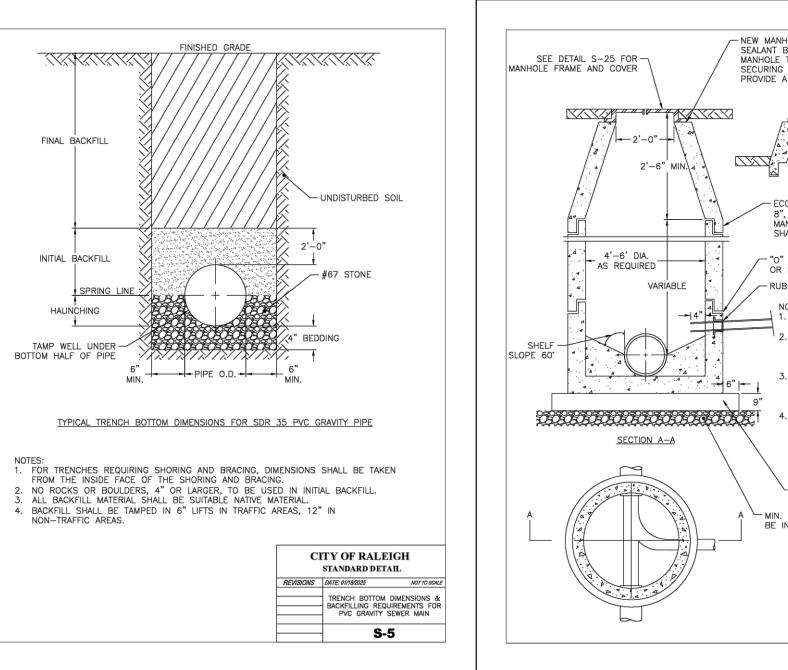
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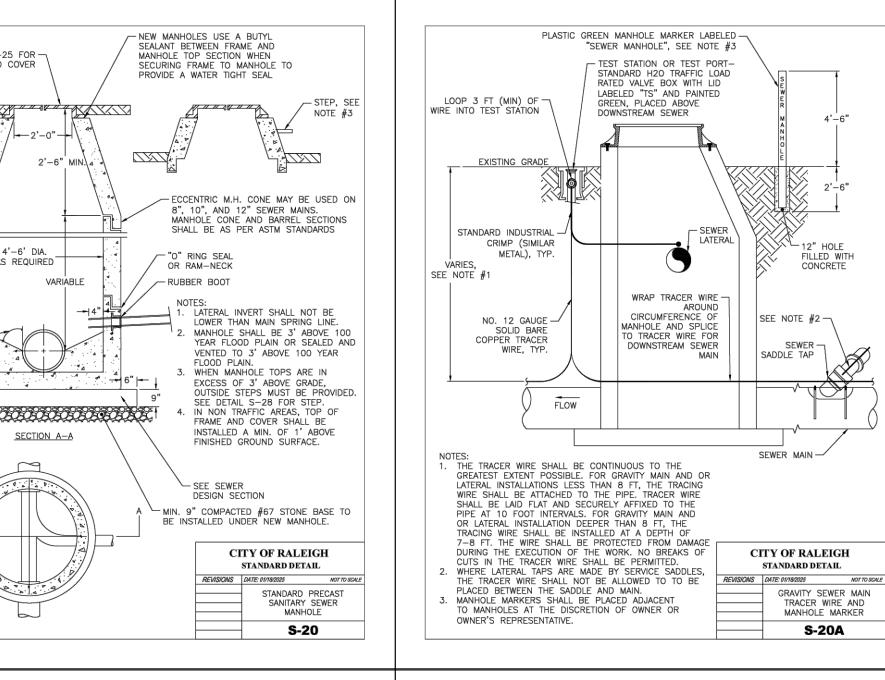
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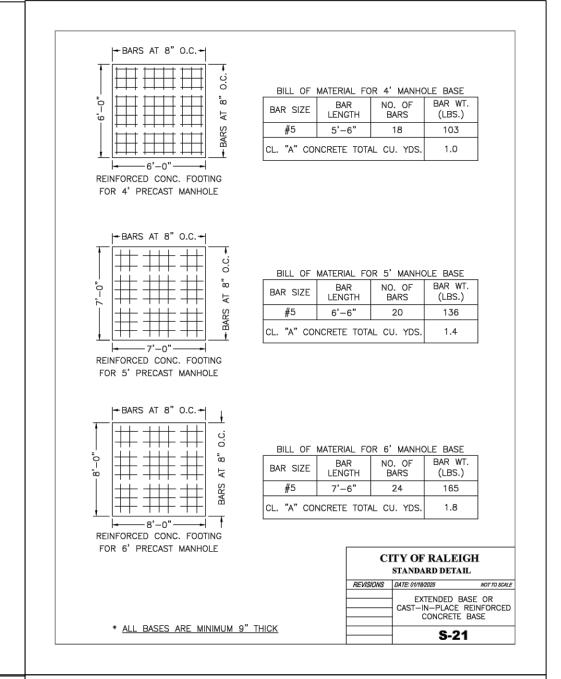
PROJECT: **CPMTRZ** 

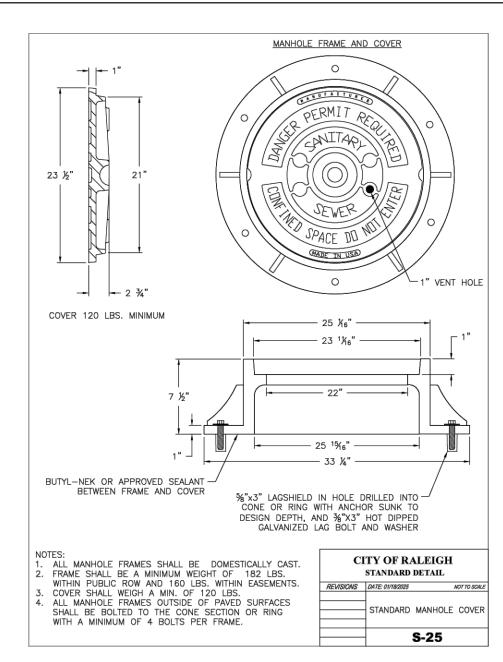
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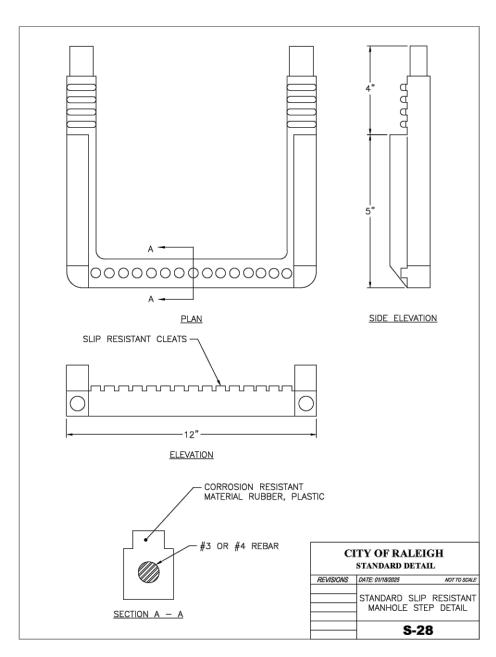


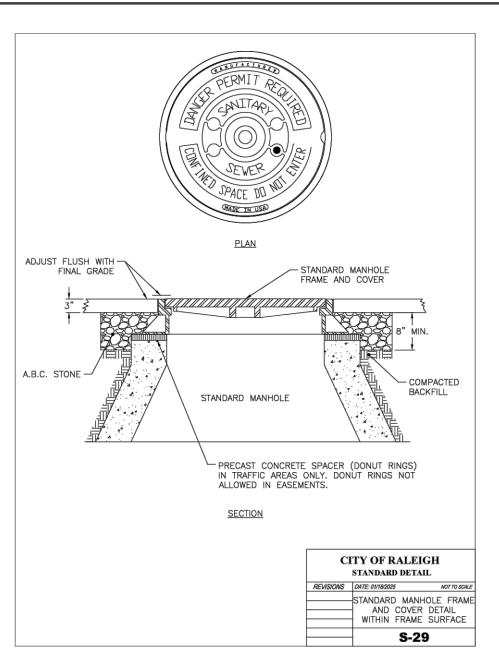


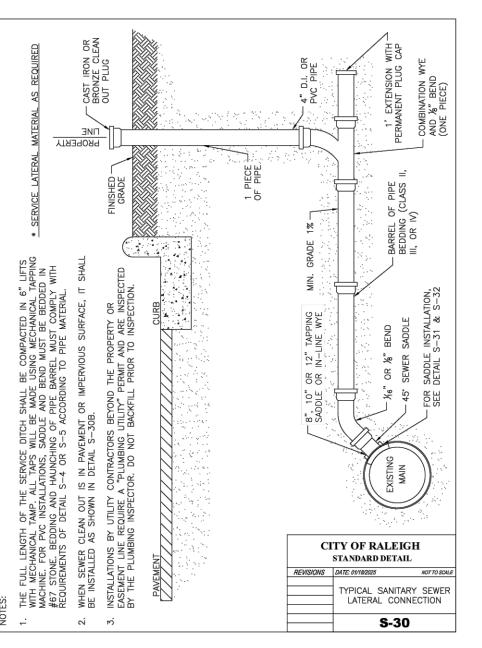


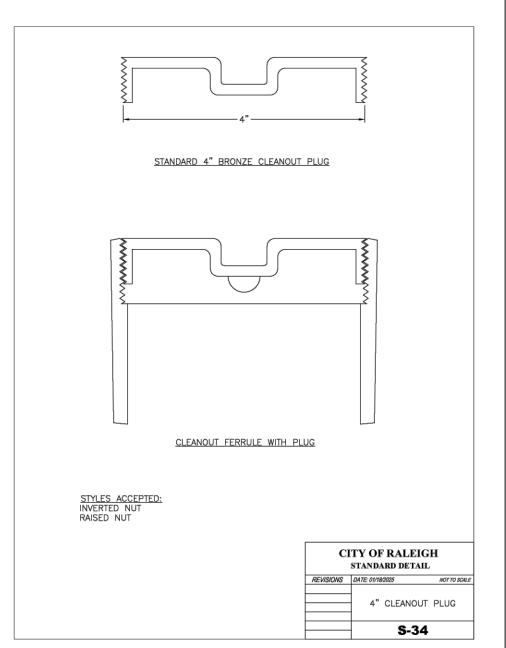


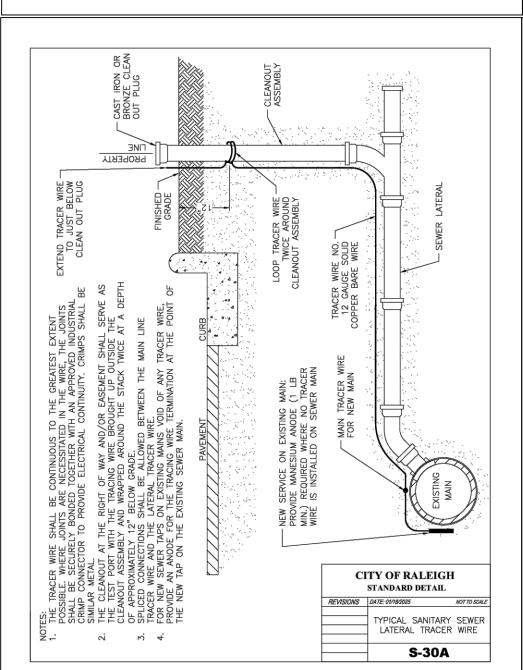


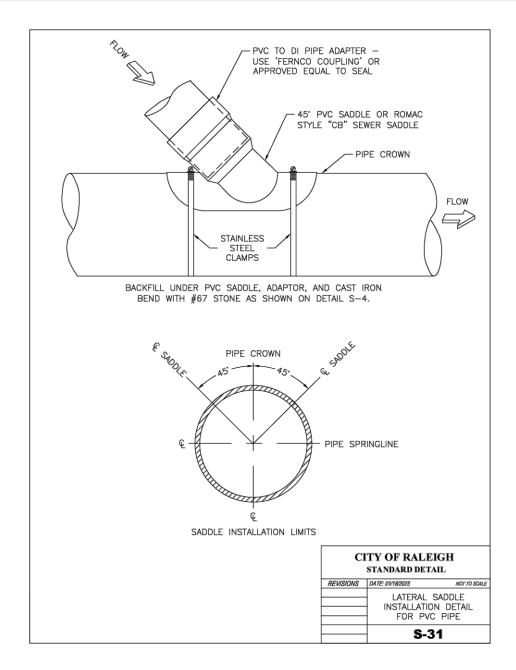


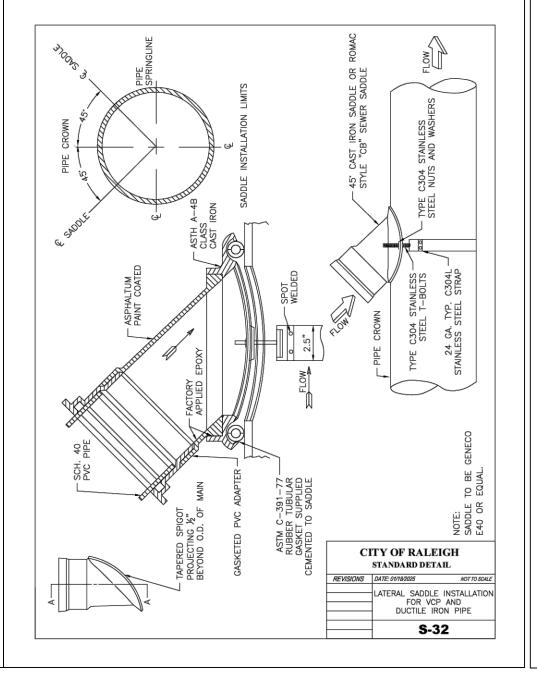












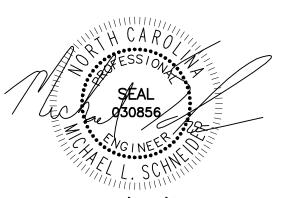


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PARTMENTS CAROLINA

RIDGE , NOR

ADISON RIDGE APARTMENT

ISSUED: **06 MAY 2025** 

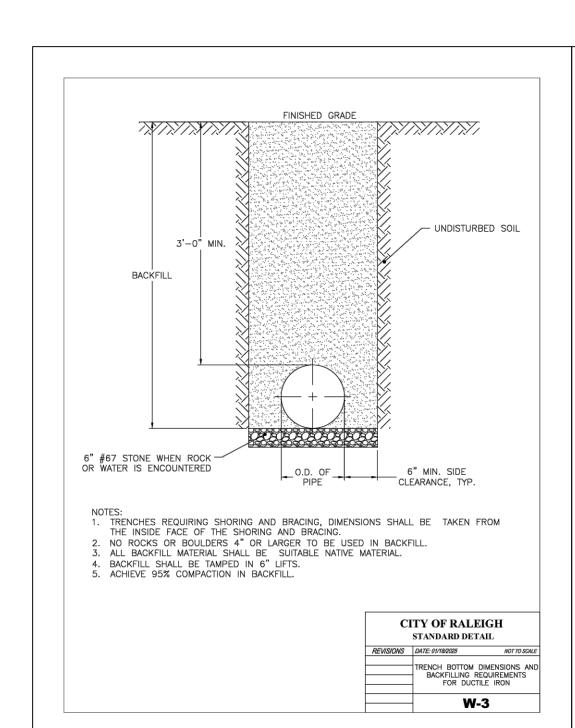
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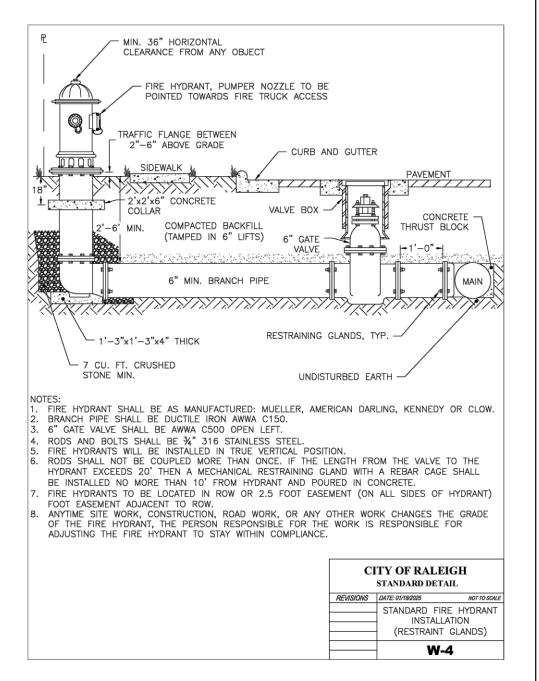
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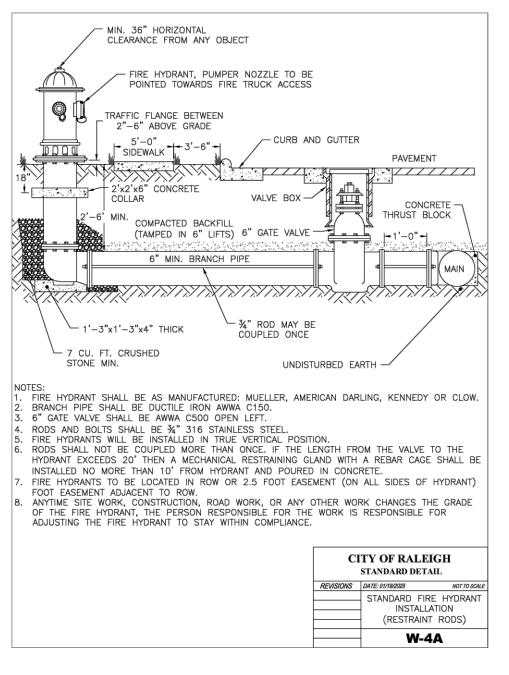
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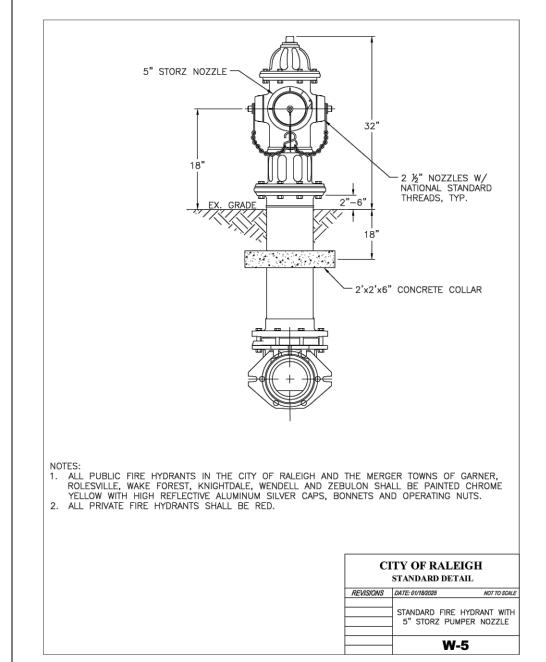
PROJECT: **CPMTRZ** 

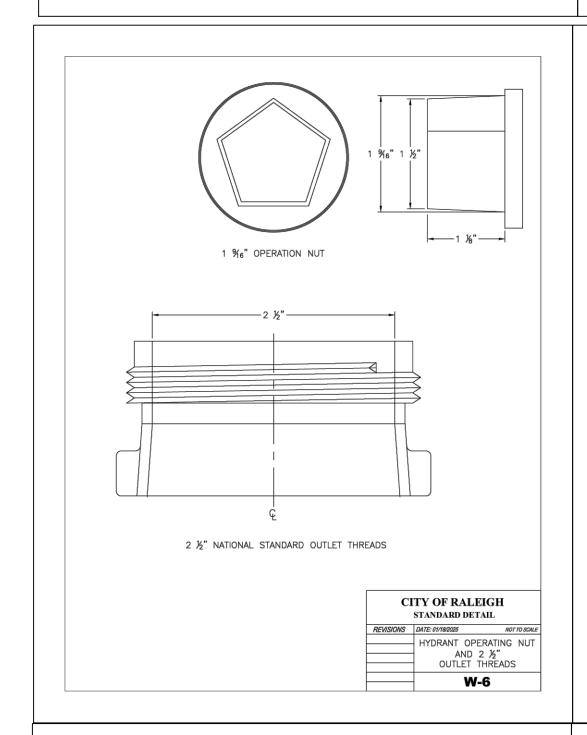
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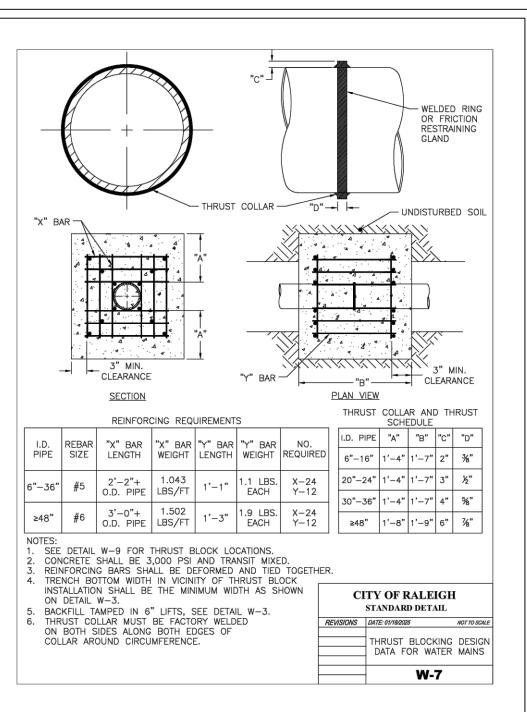


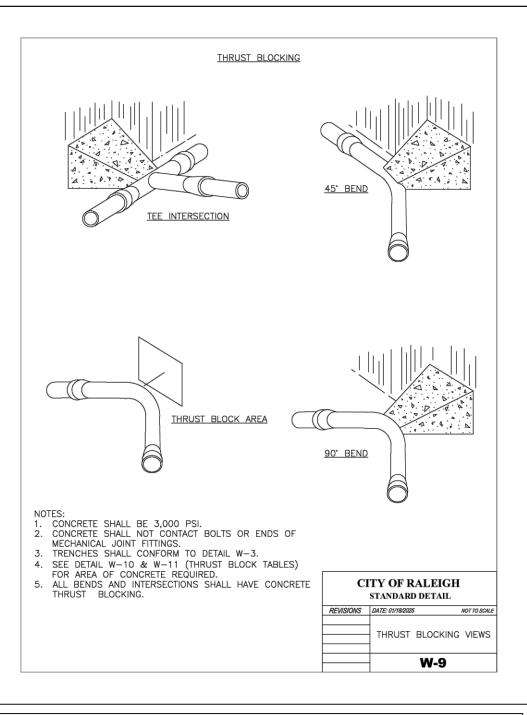


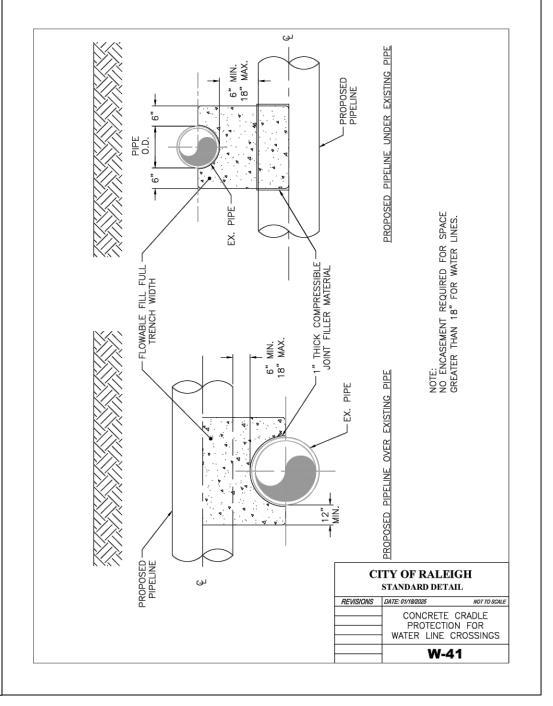






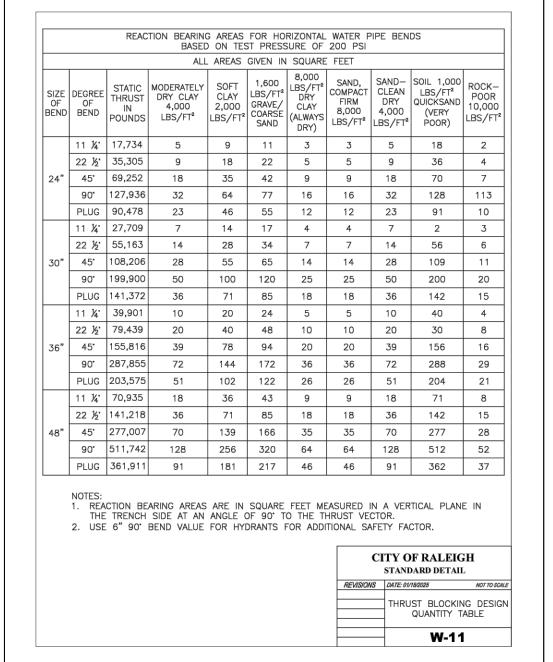


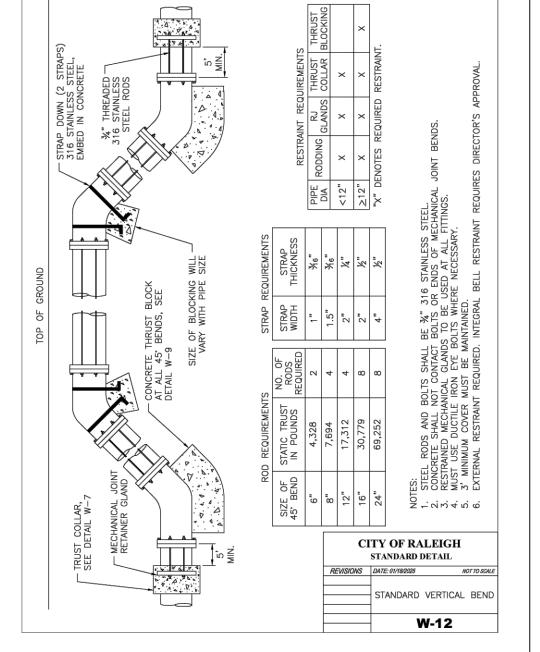




		REAC	TION BEARIN BASEI		FOR HO ST PRESS			PIPE BEN	DS	
			ALI	AREAS	GIVEN IN	SQUARE	FEET			
SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT <sup>2</sup>	SOFT CLAY 2,000 LBS/FT <sup>2</sup>	1,600 LBS/FT <sup>2</sup> GRAVEL/ COARSE SAND	8,000 LBS/FT <sup>2</sup> DRY CLAY (ALWAYS DRY)	SAND, COMPACT FIRM 8,000 LBS/FT <sup>2</sup>	SAND- CLEAN DRY 4,000 LBS/FT <sup>2</sup>	SOIL 1,000 LBS/FT <sup>2</sup> QUICKSAND (VERY POOR)	ROCK- POOR 10,000 LBS/FT
	11 ¼	1,108	1	1	1	1	1	1	2	1
İ	22 ½*	2,207	1	2	2	1	1	1	3	1
6"	45°	4,328	2	3	3	1	1	2	5	1
İ	90*	7,996	2	4	5	1	1	2	8	1
İ	PLUG	5,655	2	3	4	1	1	2	6	1
	11 ¼	1,970	1	1	2	1	1	1	2	1
İ	22 ½	3,922	1	2	3	1	1	1	4	1
8"	45°	7,694	2	4	5	1	1	2	8	1
	90*	14,215	4	8	9	2	2	4	15	2
İ	PLUG	10,053	3	5	6	2	2	3	10	1
	11 ¼'	4,433	2	3	3	1	1	2	5	1
	22 ½*	8,826	3	5	6	2	2	3	9	1
12"	45*	17,312	5	9	11	3	3	5	18	2
ĺ	90°	31,983	8	16	19	4	4	8	32	4
	PLUG	22,619	6	12	14	3	3	6	23	3
	11 ¼	7,881	2	4	5	1	1	2	8	1
	22 ½	15,691	4	8	10	2	2	4	16	2
16"	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

W-10





INFRASTRUCTURE CONSTRUCTION PLAN	N APPROVA	L
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All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

PUBLIC UTILITIES\_

**DETAILS** 

DWG. NO. SITE 14

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ENGR. FIRM LICENSE NO. F-0843



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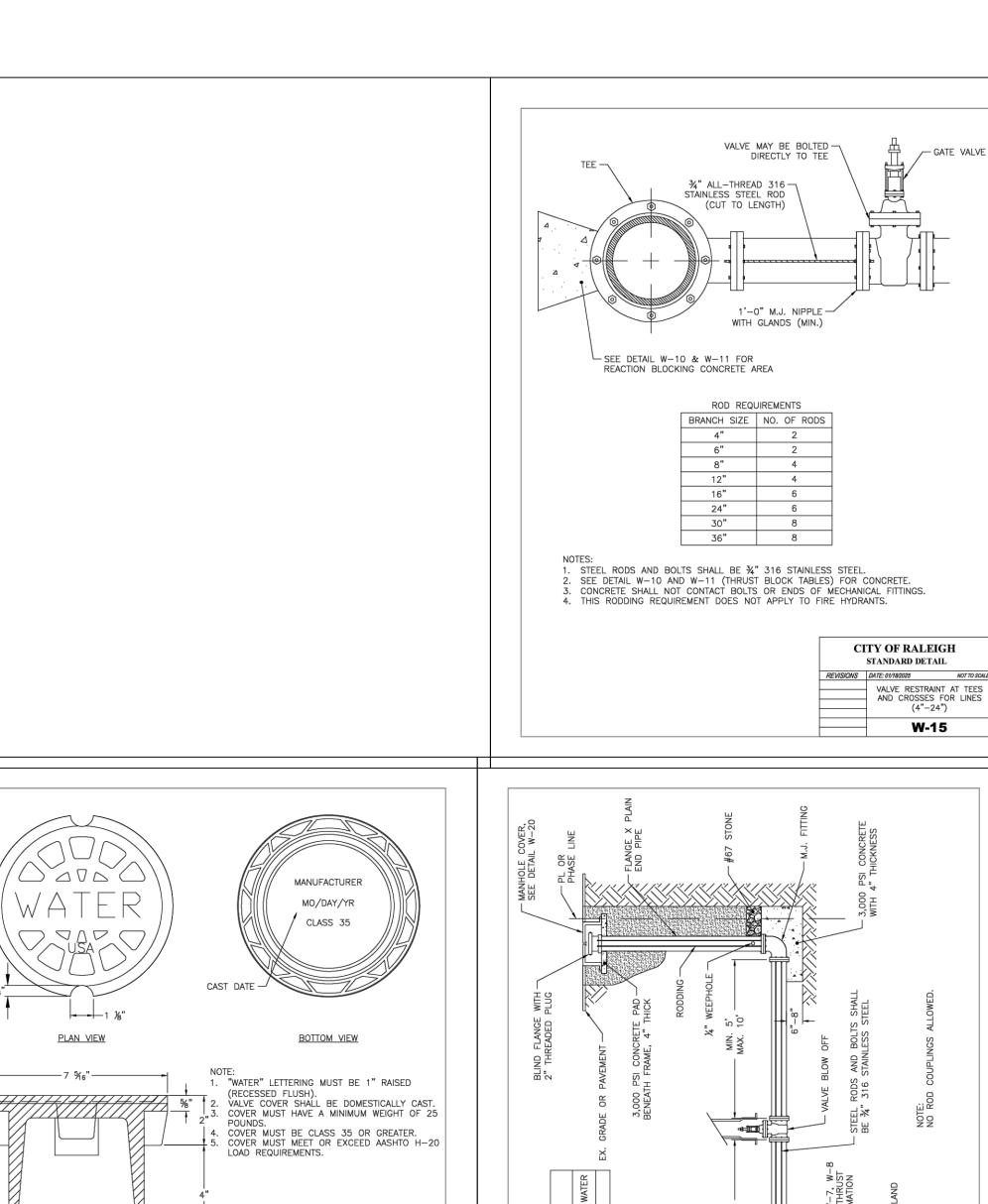
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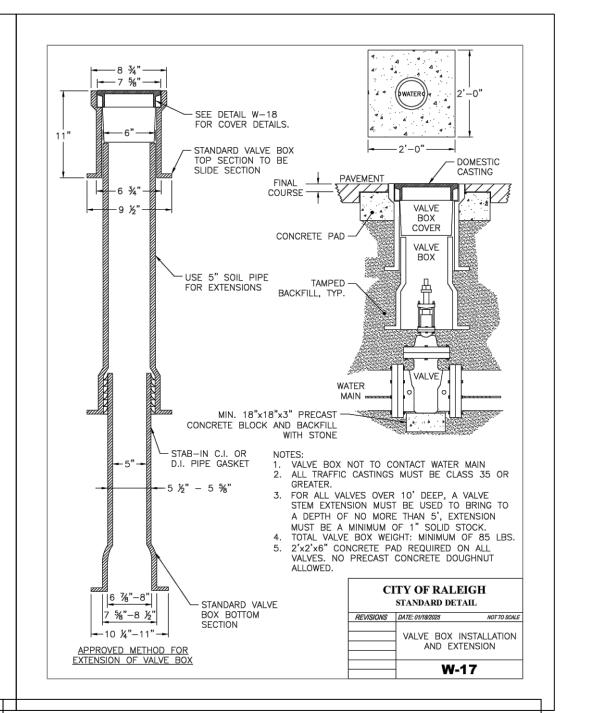
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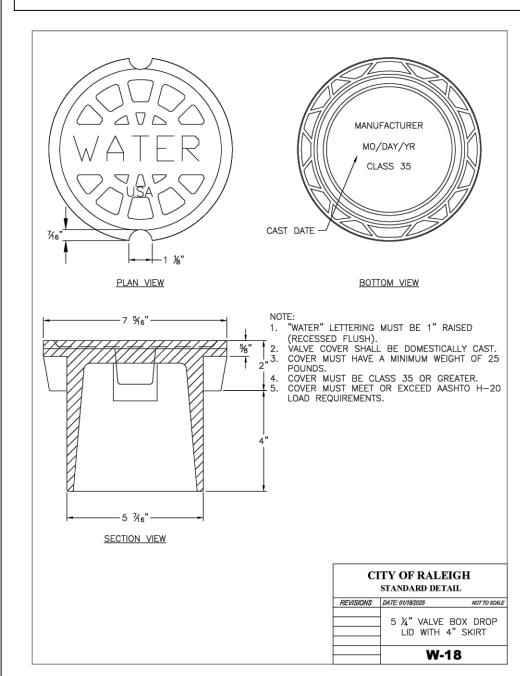
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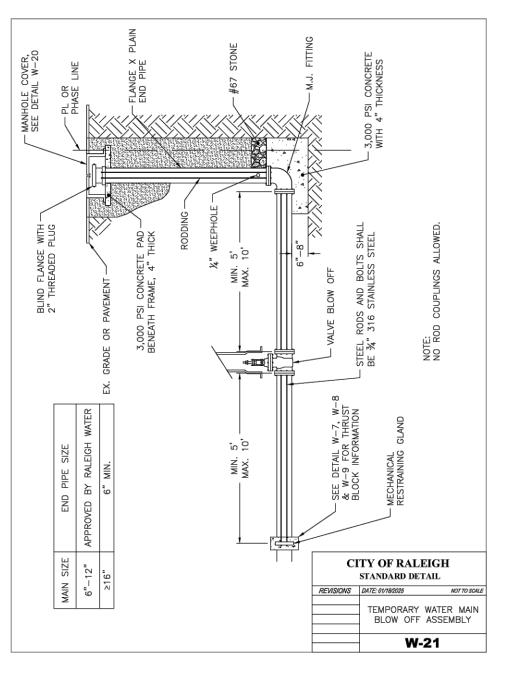
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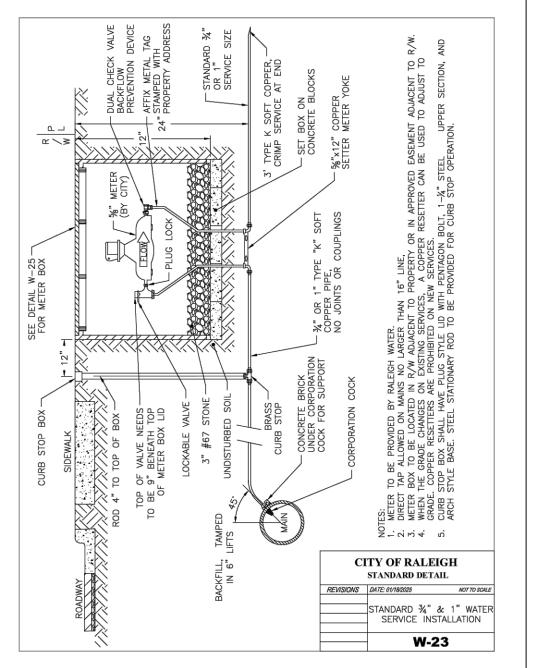
PROJECT: **CPMTRZ** 

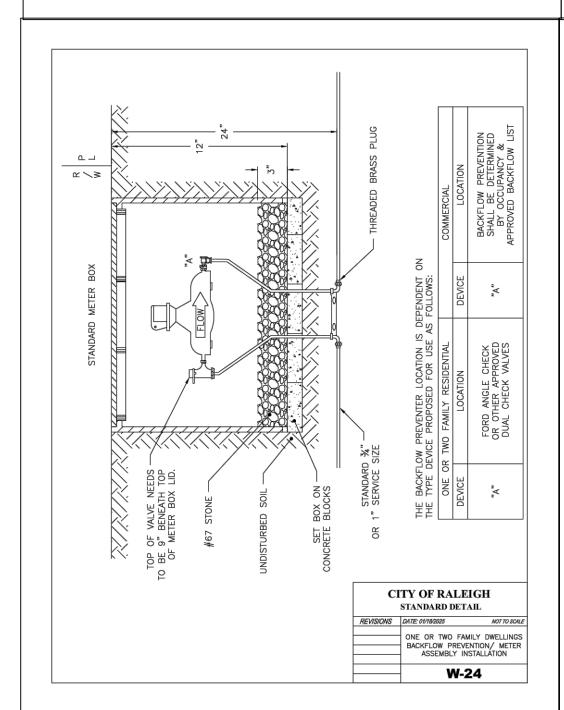


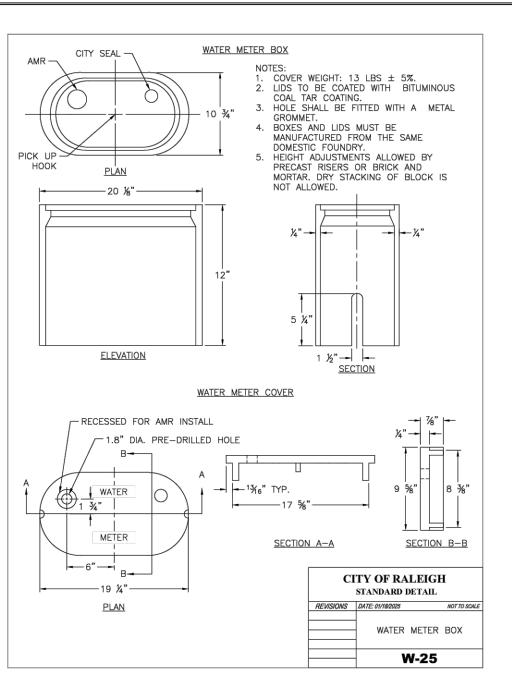


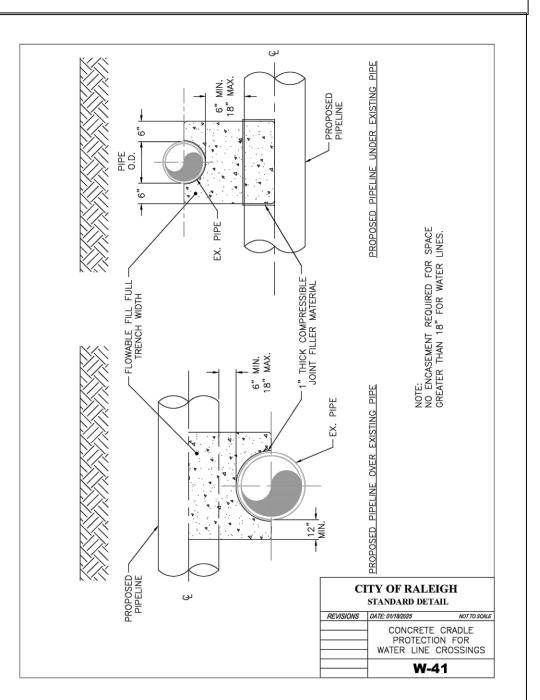


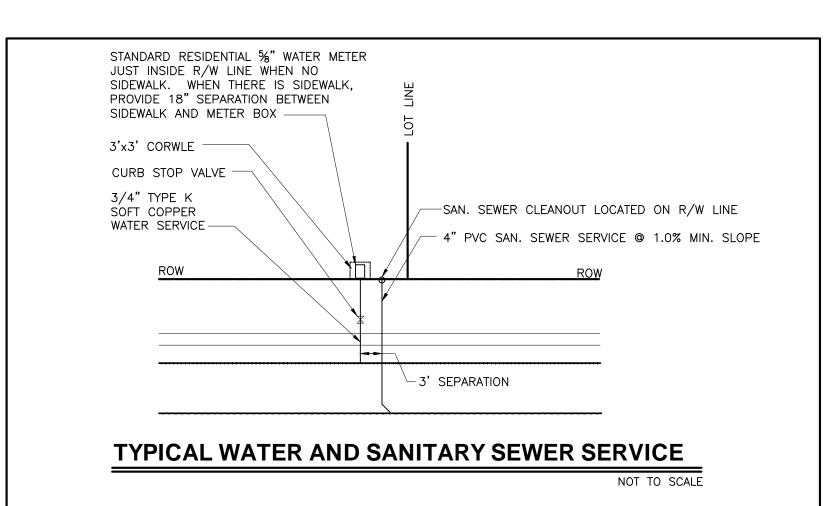








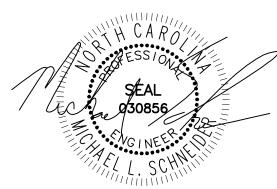




INFRASTRUCTURE CONSTRUCTION PLAN APPROV	AL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION	Į
All Construction must be in accordance with all Local, State, Federal Rules and Regulations.	and
PUBLIC UTILITIES	

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



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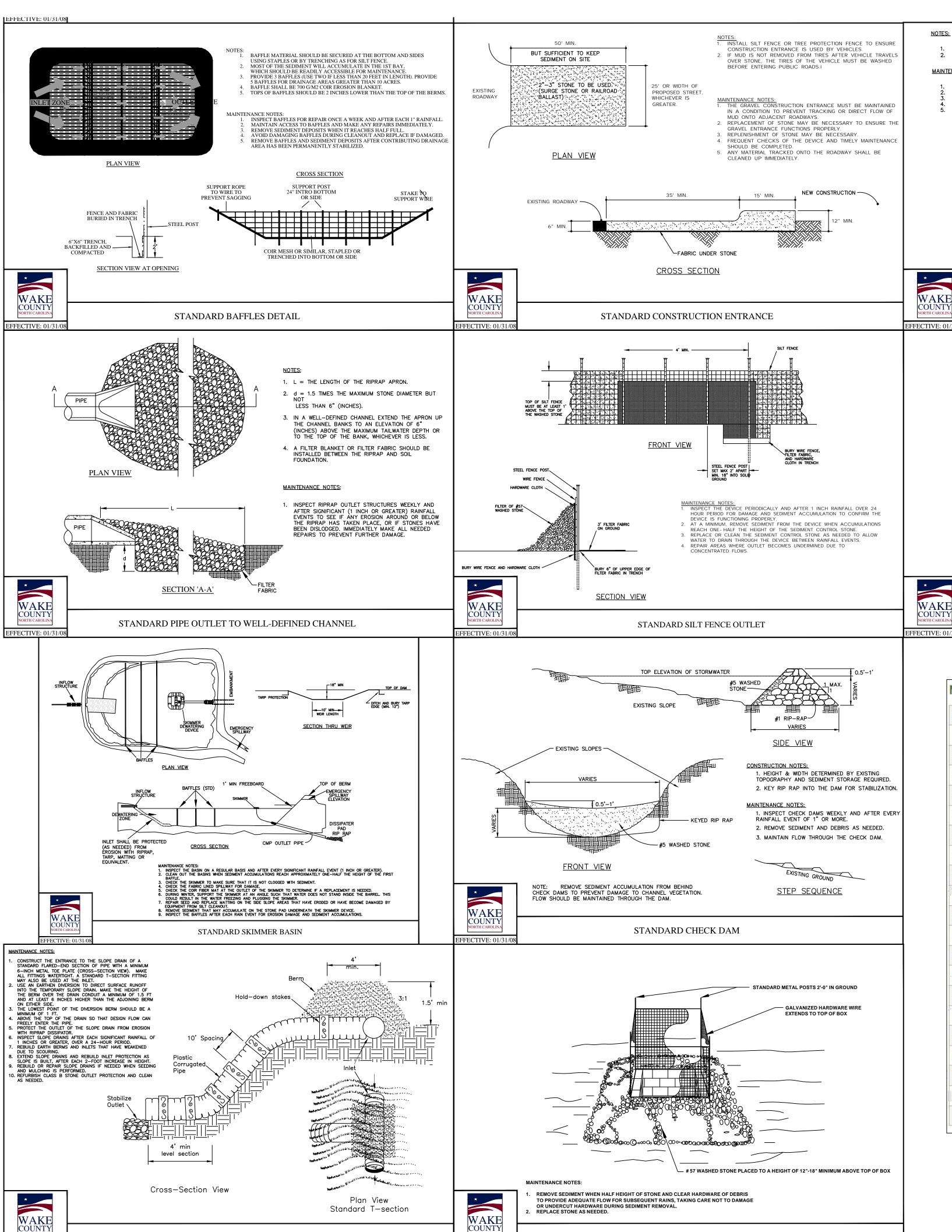
**REVISIONS:** 

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PROJECT: **CPMTRZ** 

**DETAILS** 



STANDARD GRAVEL YARD INLET PROTECTION

STANDARD TEMPORARY SLOPE DRAIN

MMF RIPARIAN BUFFER MI	X	
Recommended application rate: 20 to	25 lbs. per acre (1 lb./2000 sq.ft.) — \$2	1.44 per pound
Species	Common Name	Percent
Agrostis hyemalis	Winter bentgrass	0.5%
Agrostis perennans	Upland bentgrass	0.5%
Andropogon gerardii	Big bluestem	15.0%
Andropogon virginicus	Broomsedge	0.5%
Coleataenia anceps	Beaked panicgrass	1.0%
Coreopsis lanceolata	Lanceleaf coreopsis	1.0%
Dichanthelium dichotomiflorum	Fall panicgrass	0.5%
Elymus virginicus	Virginia wildrye	34.0%
Juncus effusus	Soft rush	0.5%
Panicum virgatum	Switchgrass	13.0%
Pycnanthemum tenuifolium	Narrowleaf mountainmint	0.5%
Rudbeckia hirta	Blackeyed susan	0.5%
Schizachyrium scoparium	Little bluestem	10.0%
Solidago speciosa	Showy goldenrod	0.5%
Sorghastrum nutans	Indian grass	7.0%
Tradescantia subaspera	Zigzag spiderwort	1.0%
Tripsacum dactyloides	Eastern gamagrass	12.0%
Zizia aurea	Golden zizia	2.0%
		100%

TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.

INSPECT ONCE A WEEK AND AFTER EVERY 1" RAINFALL.

SILT SHALL BE REMOVED WHEN DITCH IS ONE—HALF FULL.

DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.

CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.

AFTER DRAINAGE AREA IS PERMANENTLY STABILIZED, PLACE WASTE MATERIAL IN DITCH TO BLEND WITH NATURAL GROUND AND STABILIZE.

CROSS SECTIONAL VIEW

STANDARD TEMPORARY DIVERSION DITCH

8'-0" MAXIMUM

INSTALLED TO SECOND

FRONT VIEW

STANDARD TEMPORARY SILT FENCE

MAINTENANCE NOTES:

-STEEL POST

SIDE VIEW

WOVEN WIRE FABRIC

- GRADE

8" MINIMUM COVER OVER SKIRT \*

ANCHOR SKIRT AS DIRECTED

-SILT FENCE FABRIC

WASTE MATERIAL-COMPACT

INTERMEDIATE WIRES

INSPECT BAG AFTER EACH SIGNIFICANT RAINFALL OF 1 INCHES OR GREATER, OVER A 24—HOUR PERIOD.L. MAKE ANY REPAIRS

IMMEDIATELY.
INSPECT THE SILT FENCE TO BE SURE THE BOTTOM OF THE

ACCUMULATIONS WHEN DEPTH REACHES 1/2 THE HEIGHT OF THE

GEOTEXTILE. DO NOT UNDERMINE THE FENCE DURING CLEANOUT.

DISPOSE OF SEDIMENT BY HAULING IT TO AN APPROVED WASTE SITE WITH APPROPRIATE PERIMETER PROTECTION.

REMOVE AND REPLACE DETERIORATED OR CLOGGED SILT FENCE.

REPLACE SILT FENCE REMOVED FOR ACCESS AT THE END OF FACH DAYS OPERATION

EACH DAYS OPERATION.

8. INSTALL ADDITIONAL POSTS OR WIRE BACKING IF FENCE IS

3. GEOTEXTILE IS KEYED IN PROPERLY. 4. AT A MINIMUM, REMOVE AND DISPOSE OF ALL SILT

SEED & MULCH AFTER

CONSTRUCTION OF DITC

STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

INSPECT ONCE A WEEK AND AFTER EVERY 1" RAINFALL.

MINIMUM 10 GAUGE

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1) NCDENR/Division of Water Quality NEW STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011) SITE AREA STABILIZATION TIMEFRAME EXCEPTIONS DESCRIPTION Perimeter dikes. 7 days swales, ditches, slopes High Quality Water (HQW) Zones 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 7 days for slopes greater than 50' in All other areas with 14 days None, except for perimeters and slopes flatter than 4:1 HQW Zones.

#### Seedbed Preparation:

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse soil
- conditions, if available
- Rip the entire area to six inches deep.
- 3. Remove all loose rock, roots and other obstructions, leaving surface reasonably
- 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, reestablish 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):

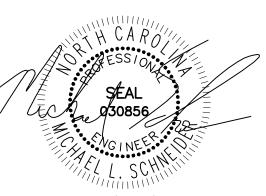
Date	Туре	Planting Rate
Aug 15 -Nov 1	Tall Fescue	300 lbs/acre
Nov 1– Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1– Apr 15	Tall Fescue	300 lbs/acre
Apr 15- Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1– Aug 15	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids***	125 lbs/acre (Tall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

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

Date	Туре	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



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06 MAY 2025 ISSUED:

**REVISIONS:** 

1 06 MAY 2025

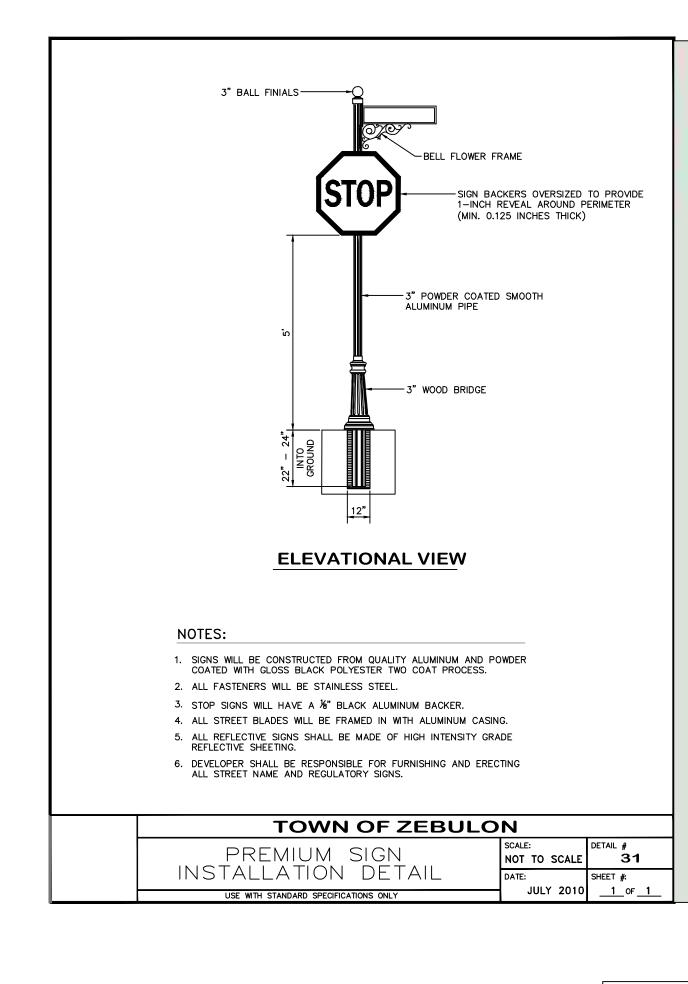
PER TOWN/COUNTY COMMENTS

DRAWN BY: MLS

PROJECT: **CPMTRZ** 

CHECKED BY: MLS

**DETAILS** 



# 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.

I-VR1, for post with 2 3/8" O.D. (concrete)	034-00012
-VR3, for post with 2 3.8° O.D. (soil)	034-00014
-VRII, for post with 3" O.D. (concrete)	034-00116
-VRB, for post with 3 ° 0.0. (soll)	034-00002
-4'R1, for post with 4" O.D. (concrete)	034-00117
-VR3, for post with 4° O.D. (solf)	106782



15' x 4" decorative pole package, anchor bolts (for concrete) 203-00185

# MADISON RIDGE APARTMENT

ISSUED: **06 MAY 2025** 

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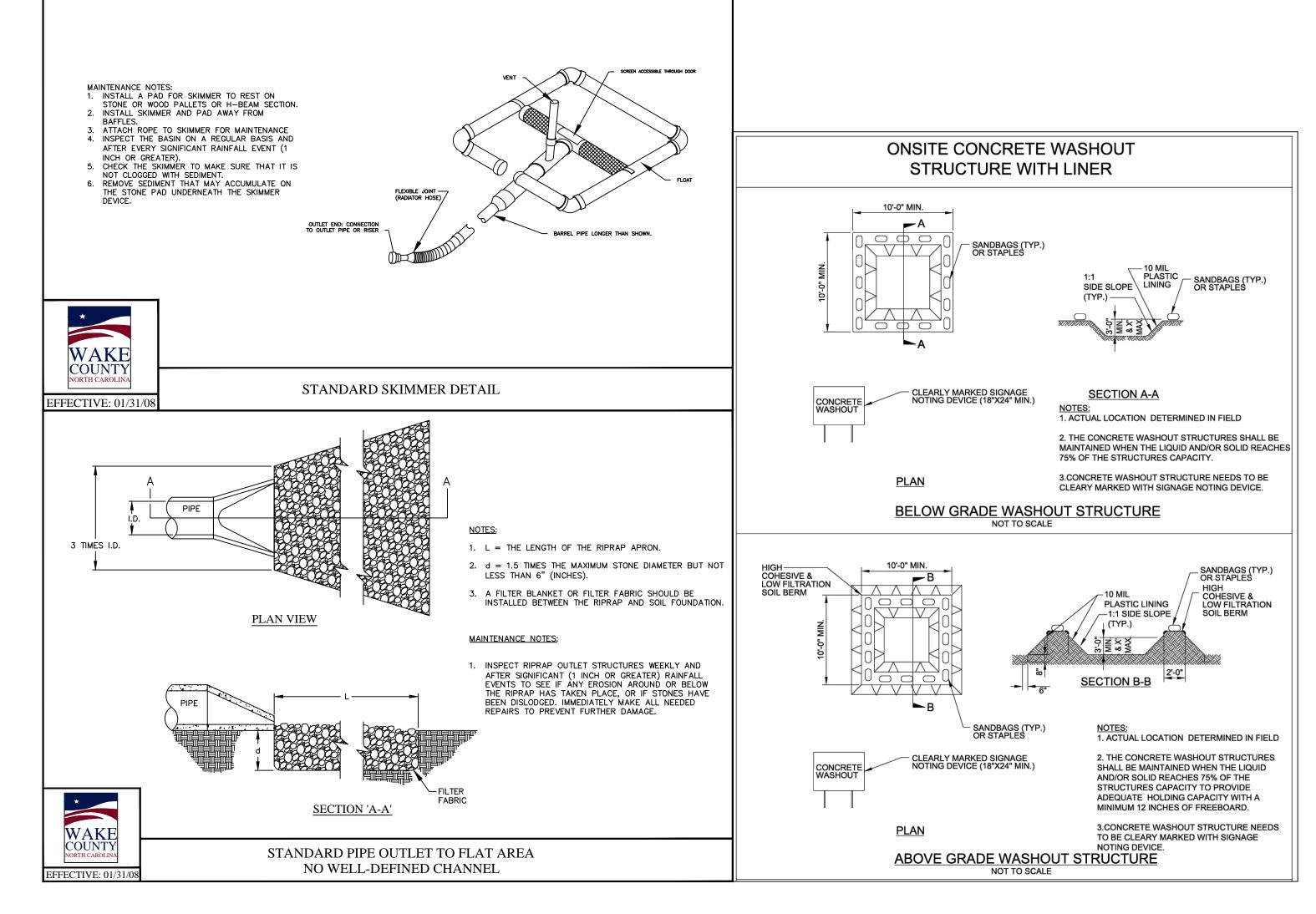
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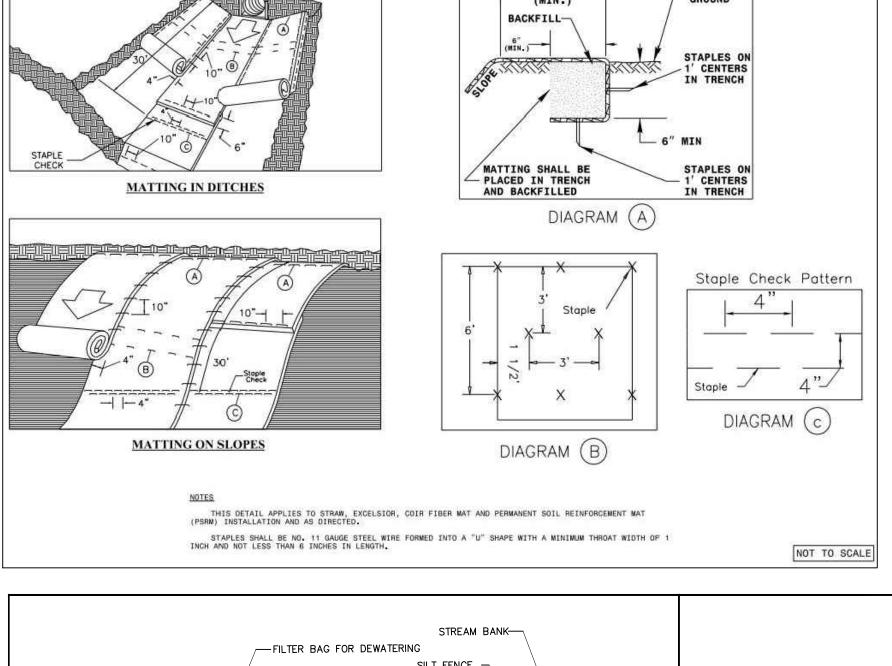
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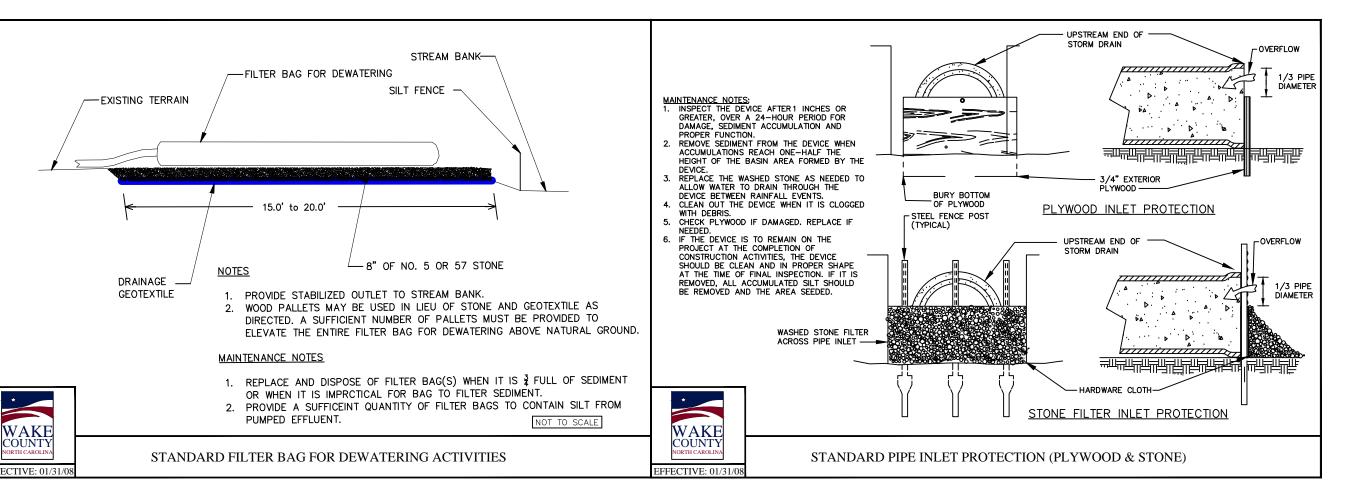
DRAWN BY: MLS
CHECKED BY: MLS

PROJECT: CPMTRZ

**DETAILS** 







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)	flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope				

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

#### GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Rolled erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> <li>Rolled erosion control products with grass seed</li> </ul>

#### 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

- . 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

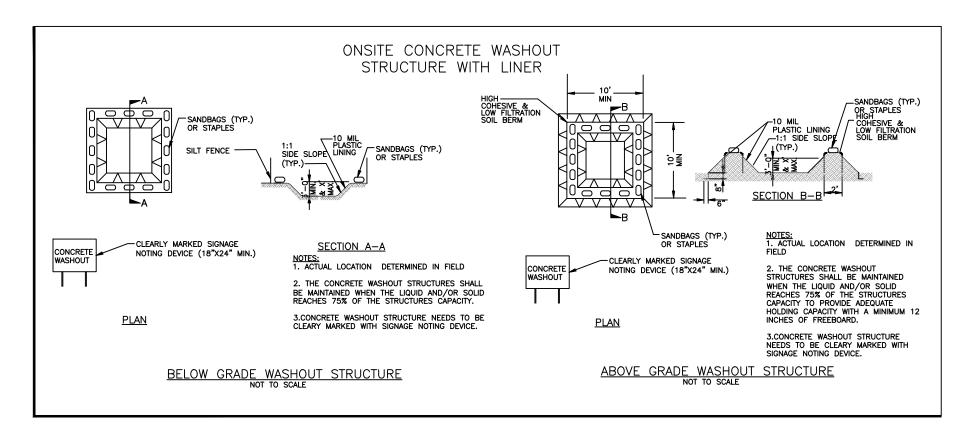
- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 3. Contain liquid wastes in a controlled area.
- . Containment must 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.
- 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.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- 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.

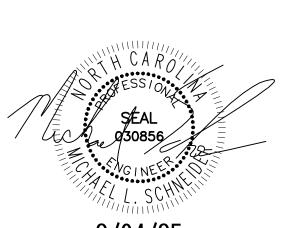
#### HAZARDOUS AND TOXIC WASTE

- 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.

EFFECTIVE: 04/01/19

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SON RIDGE APARTMENTS LON, NORTH CAROLINA

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ISSUED: **04 FEB 2025** 

REVISIONS:

DRAWN BY: MLS
CHECKED BY: MLS

PROJECT: **CPMTRZ** 

DETAILS

#### 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 holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those u attended days (and this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded "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	<ol> <li>Identification of the measures inspected,</li> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Indication of whether the measures were operating properly,</li> <li>Description of maintenance needs for the measure,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>
(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	<ol> <li>Identification of the discharge outfalls inspected,</li> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> <li>Indication of visible sediment leaving the site,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>
(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	<ol> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>Actions taken to clean up or stabilize the sediment that has le the site limits,</li> <li>Description, evidence, and date of corrective actions taken, and</li> <li>An explanation as to the actions taken to control future releases.</li> </ol>
(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, an 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permi
(6) Ground stabilization measures	After each phase of grading	<ol> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>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.</li> </ol>

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 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.

#### 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

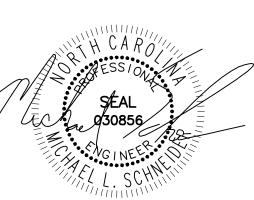
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment	Within 24 hours, an oral or electronic notification.
deposition in a	Within 7 calendar days, a report that contains a description of the
stream or wetland	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.
	<ul> <li>If the stream is named on the <u>NC 303(d) list</u> as impaired for sediment-</li> </ul>
	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	Within 24 hours, an oral or electronic notification. The notification
release of	shall include information about the date, time, nature, volume and
hazardous	location of the spill or release.
substances per Item	
1(b)-(c) above	
(c) Anticipated	• A report at least ten days before the date of the bypass, if possible.
bypasses [40 CFR	The report shall include an evaluation of the anticipated quality and
122.41(m)(3)]	effect of the bypass.
(d) Unanticipated	Within 24 hours, an oral or electronic notification.
bypasses [40 CFR	Within 7 calendar days, a report that includes an evaluation of the
122.41(m)(3)]	quality and effect of the bypass.
(e) Noncompliance	Within 24 hours, an oral or electronic notification.
with the conditions	Within 7 calendar days, a report that contains a description of the
of this permit that	noncompliance, and its causes; the period of noncompliance,
may endanger	including exact dates and times, and if the noncompliance has not
health or the	been corrected, the anticipated time noncompliance is expected to
environment[40	continue; and steps taken or planned to reduce, eliminate, and
CFR 122.41(I)(7)]	prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).
	Division staff may waive the requirement for a written report on a
	case-by-case basis.

EFFECTIVE: 04/01/19

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



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PARTMENTS

RIDGE AI, NORTH

ISSUED: **04 FEB 2025** 

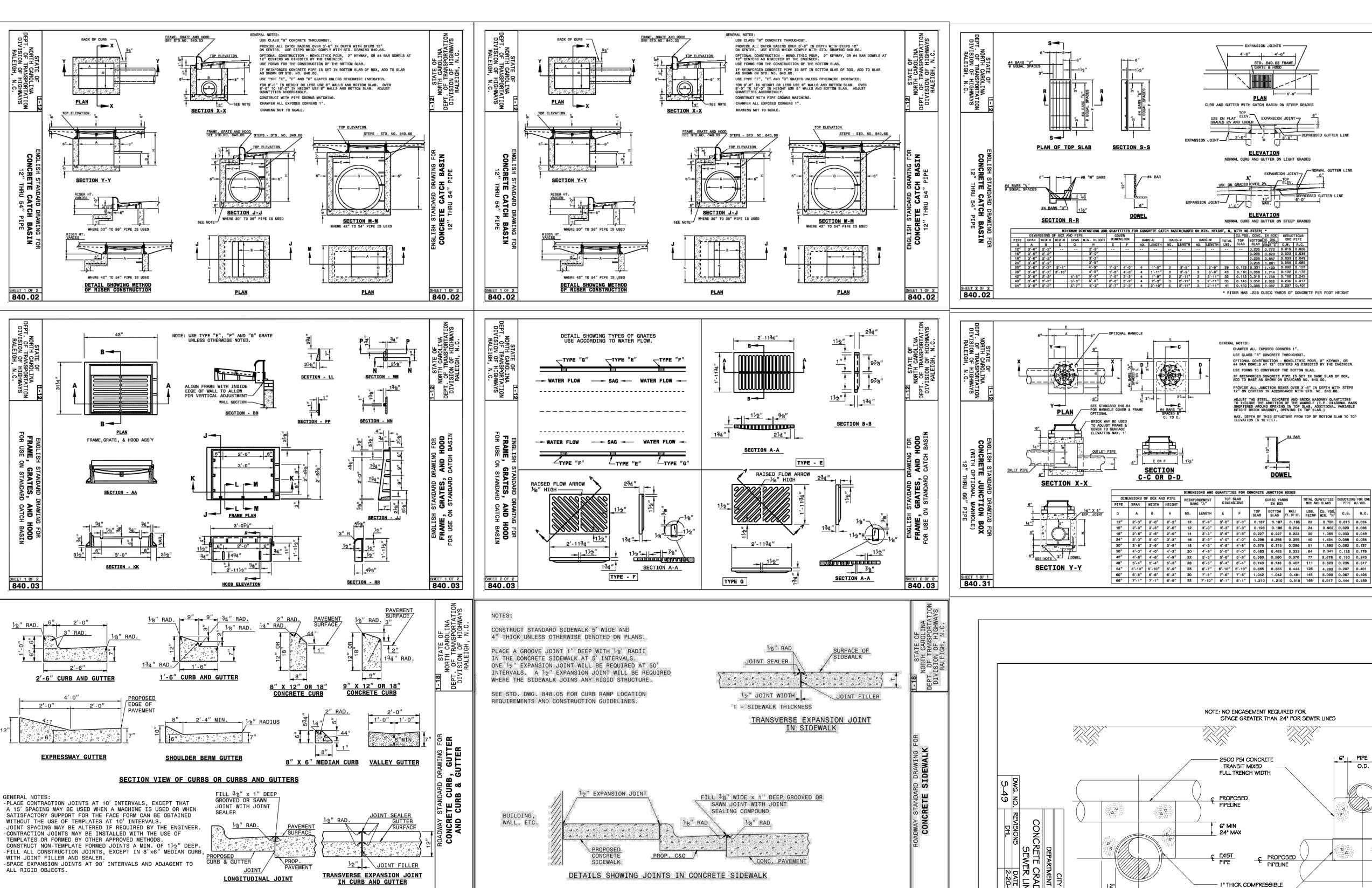
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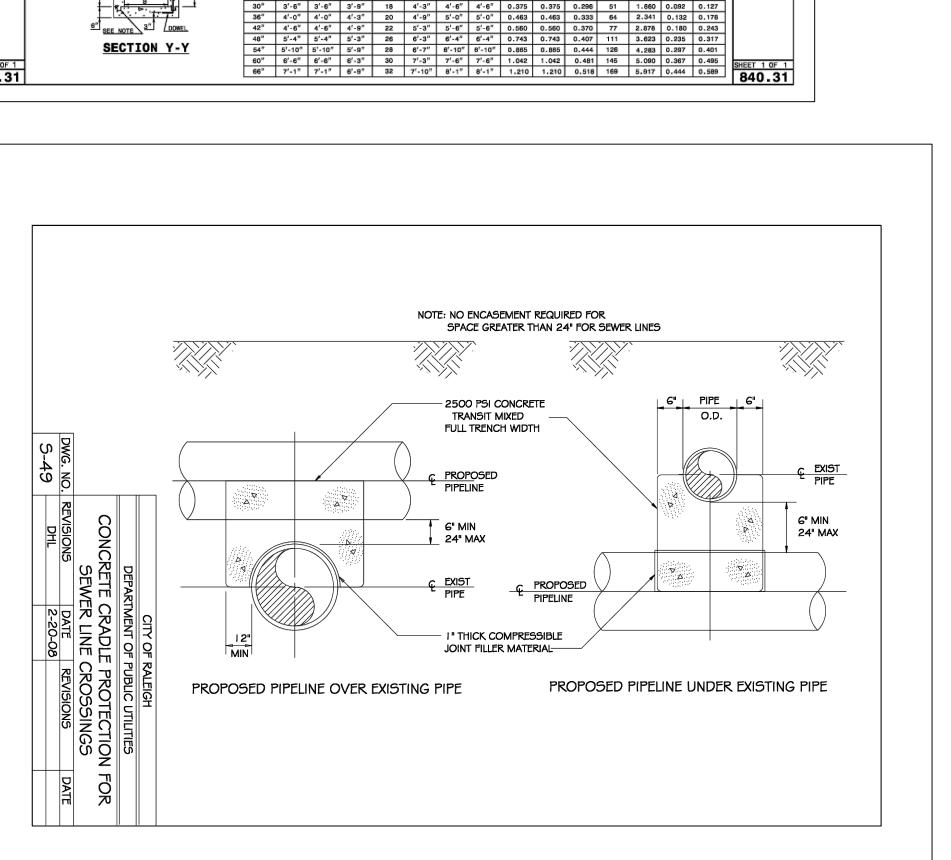
**DETAILS** 

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING



SECTION VIEW OF JOINTS

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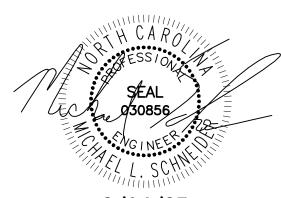


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8522-204 SIX FORKS ROAD RALEIGH, NORTH CAROLINA 27615 919.845.7600 PHONE 919.845.7703 FAX

1-12 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.



ENGR. FIRM LICENSE NO. F-0843

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**REVISIONS:** 

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**DETAILS**