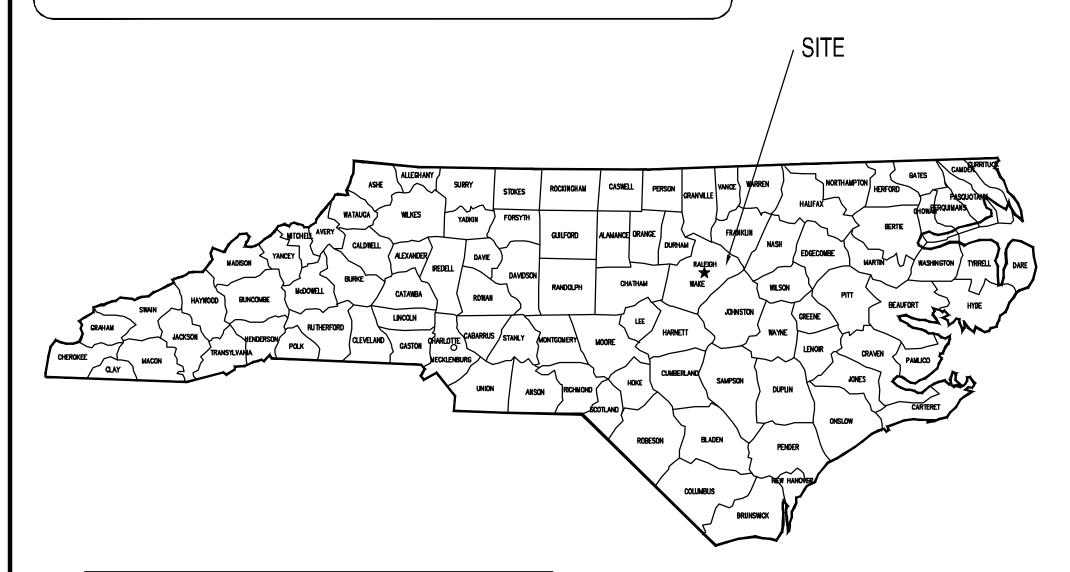
WAKE COUNTY NOTES



IMPERVIOUS SUMMARY TABLE				
ON-SITE AREA = 164,059 SF (3.766 AC) TOTAL DRAINAGE AREA = 242,500 SF (5.567 AC)				
BUILDINGS	21,147 SF	0.49 ACRE(S)	12.91 % OF ARE	
PAVEMENT	81,500 SF	1.87 ACRE(S)	49.68 % OF ARE	
SIDEWALK	7,100 SF	0.16 ACRE(S)	4.33 % OF ARE	
ON-SITE IMPERVIOUS AREA	109,774 SF	2.52 ACRE(S)	66.91 % OF ARE	
OFF-SITE IMPERVIOUS AREA	10,051 SF	0.23 ACRE(S)	6.13 % OF ARE	
GREEN/OPEN SPACE	54,285 SF	1.25 ACRE(S)	33.09 % OF ARE	
EXISTING IMPERVIOUS AREA	0 SF	0 ACRE(S)	0.0 % OF AREA	
INCREASE IN IMPERVIOUS 119,825 SF 2.75 ACRE(S) 73.04 % OF AREA				

OPMENT DATA
TRACTOR SUPPLY
OLD US HIGHWAY 264
ZEBULON, NC
BUNN FARMS, INC
219 ROYAL FERN RD
WILMINGTON, NC 28412
2705-97-3068 (ORDINANCE 2022-36)
0352494
006057 / 00594
HC- HEAVY COMMERCIAL (ORDINANCE 2022-36)
GC-GENERAL COMMERCIAL
N35.828782, W-78.293752
164,059 SF (3.77 AC) PROPOSED TRACTOR SUPPLY
PUBLIC - CITY OF RALEIGH
PUBLIC - CITY OF RALEIGH
NO - ANNEXATION REQUIRED
VACANT
21,147 SF TRACTOR SUPPLY RETAIL STORE
NONE (FEMA FIRM 3720270500K, 7/19/22)
UIREMENTS
6,000 SF
50 FT
80%
3% OF SITE (4,922SF) 5,000 SF OPEN SPACE PROVIDED ALONG US 264
30 FT
0; 5FT IF PROVIDED
O IF ABUTTED BY AN ALLEY; OTHERWISE 25FT
50FT; MAY INCREASE BY 2FT FOR EACH ADDITIONAL FOOT OF SETBACK UP TO 100FT IN HEIGHT
25FT
1
Y)
KÍNG SPACES
T
79
10' X 19' MIN 8.5' X 18' COMPACT (30% MAX)
20 FT ONE-WAY, 24 FT TWO-WAY
4
5% OF SITE REQUIRED (8,203SF) 19,000SF OF TREE RETENTION PROPOSED

CONSTRUCTION DOCUMENTS

Proposed Tractor Supply

Old US Highway 264 Zebulon, North Carolina Wake County IDT# 782339

DEVELOPER

Primax Properties, LLC Attn. Adam Sellner 1100 E. Morehead Street Charlotte, NC 28204 704-954-7224 asellner@primaxproperties.com

REZONING - ORDINANCE 2022-36

ORDINANCE 2022-36 AMENDMENT TO ZONING MAP FOR 0 Old US 264 (Pin # 2705973068)

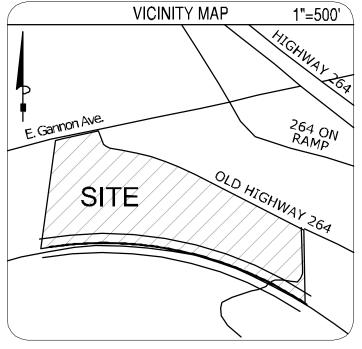
The proposed Zoning Map Amendment for approximately 9.8 acres located at 0 Old US 264 with associated Wake County Pin # 2705973068 would be rezoned from R-2 Residential to Heavy Commercial (HC) in accordance with Section 2.2.24 of the Town of Zebulon Unified Development

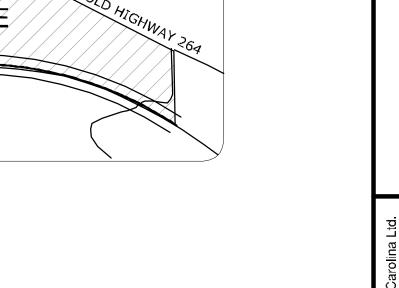
Ordinance and the attached map.

Adopted this the 4th day of April 2022

CIVIL ENGINEER

Bowman North Carolina, Ltd. 4006 Barrett Drive, Suite 104 Raleigh, NC 27609 (919) 553-6570 mlowder@bowman.com FIRM# F-1445











PRECONSTRUCTION NOTE

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR. CONTACT JASON AT 919-790-5640.

CURRENT PROPERTY OWNERS

Bunn Farms, Inc. 219 Royal Fern Road Wilmington, NC 28412 (919) 269-9868

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT **APPROVED** EROSION CONTROL S-

STORMWATER MGMT.

S-__ FLOOD STUDY ☐ S-DATE ENVIRONMENTAL CONSULTANT SIGNATURE

The City of Raleigh consents to the con as shown on this plan. The material an	ion/Extension System Inection and extension of the City's public sewer system Id construction methods used for this project shall Itions of the City's Public Utilities Handbook.
City of Raleigh Public Utilities Department Permit#	S-5172
Authorization to Construct	See digital signature

The Construction Contractor responsible for the extension of water,

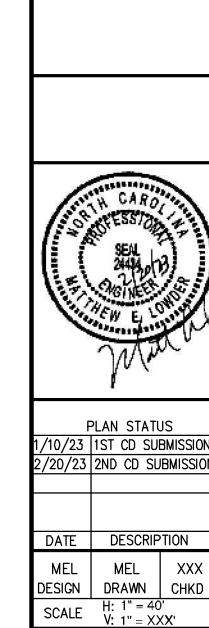
at least twenty four hours prior to beginning any of their construction.

from future work in the City of Raleigh.

sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919)996-4540

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure. Failure to call for Inspection, Install a Downstream Plug, have	
Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion	

l	SHEET	Index of Drawings SHEET TITLE
l	NUMBER	
	C1.0	COVER SHEET
ļ	C1.1	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
ŀ	C2.0 C2.1	DEMOLITION PLAN EROSION CONTROL PLAN — INITIAL
ł	C2.1	EROSION CONTROL PLAN — INITIAL EROSION CONTROL PLAN — FINAL
ł	C2.3	EROSION CONTROL NOTES
ł	C2.4	NC CONSTRUCTION GENERAL PERMIT (NCGO1) NOTES
Ì	C3.0	SITE PLAN
	C4.0	GRADING & DRAINAGE PLAN
ļ	C4.1	ROADWAY PLAN
ļ	C5.0	UTILITY PLAN
ŀ	C5.1 C6.0	SANITARY SEWER PLAN & PROFILE EROSION CONTROL DETAILS
ł	C6.0	EROSION CONTROL DETAILS EROSION CONTROL DETAILS
ł	C6.2	CONSTRUCTION DETAILS
ŀ	C6.3	CONSTRUCTION DETAILS
İ	C6.4	CONSTRUCTION DETAILS
	C6.5	CONSTRUCTION DETAILS
ļ	C6.6A	UTILITY DETAILS
ŀ	C6.6B	UTILITY DETAILS
ŀ	C6.7 C6.8	STORMWATER MANAGEMENT DETAILS STORMWATER MANAGEMENT DETAILS
ł	C6.9	STORMWATER MANAGEMENT DETAILS
İ	1 67-94	CONCENDINGENERATION
	2 OF 14	FRONT ELEVATION
ľ	3 OF 14	FRONT ELEVATION
	4 OF 14	FRONT-RIGHT ELEVATION
	5 OF 14	GREENHOUSE CONNECTION
Į	6 OF 14	GREENHOUSE CONNECTION
	7 OF 14	REAR ELEVATION — RIGHT SIDE
	8 OF 14	LOADING AREA
	9 OF 14	REAR ELEVATION — LEFT SIDE
	10 OF 14	REAR ELEVATION — LEFT SIDE
	11 OF 14	LEFT ELEVATION
	12 OF 14	LEFT ELEVATION
	13 OF 14	FRONT-LEFT ELEVATION
	14 OF 14	FRONT-LEFT ELEVATION
١	1 OF 1	PARKING LOT LIGHTING LAYOUT



JOB No. 220127-01-001

DATE January 10, 2023

FILE No. 220127-D-CP-0(

C1.0

COVER

Tractor Old US Hig bulon, NC

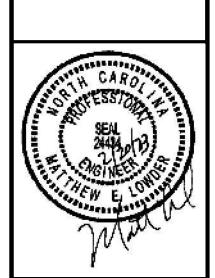
GENERAL NOTES (CONT.)

- 41. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, AND CONFIRMATION AND CONDITION OF EXISTING GROUND SURFACE AND THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, QUANTITY AND QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED. ANY INACCURACIES OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS MUST BE BOUGHT TO THE OWNER'S ATTENTION IN ORDER TO CLARIFY THE EXACT NATURE OF THE WORK TO BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING ROADS AND UTILITIES WHICH OCCURS AS A RESULT OF THE PROJECT CONSTRUCTION WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT-OF-WAY.
- 43. ALL STREET CUT AND PATCH WORK IN PUBLIC RIGHT-OF-WAY REQUIRED FOR UTILITIES INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CITY, COUNTY, AND/OR APPROPRIATE GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. REFER TO THE TOWN OF ZEBULON STANDARDS AND
- THE APPROVAL OF THIS PLAN SHALL IN NO WAY GRANT PERMISSION FOR THE CONTRACTOR TO TRESPASS ON OFF-SITE PROPERTIES.
- 45. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL
- 46. THESE PLANS MAKE NO REPRESENTATION AS TO THE SUBSURFACE CONDITIONS AND THE PRESENCE OF SUBSURFACE WATER OR THE NEED FOR SUBSURFACE DRAINAGE FACILITIES.
- 47. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ALL NECESSARY INSPECTIONS.
- 48. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 49. ALL FINISHED GRADING, SEEDING, SODDING OR PAVING SHALL BE DONE IN SUCH A MANNER TO PRECLUDE THE PONDING OF WATER.
- 50. THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK, THE ENGINEER IS NOT RESPONSIBLE FOR ACT: OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING OF ANY CONSTRUCTION ON THE PROJECT. IF CONFLICTS ARE DISCOVERED AS A RESULT OF TEST HOLE FINDINGS, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- 52. EXCAVATION SUPPORT SYSTEMS SHALL CONFORM TO THE PROVISIONS OF OSHA CONSTRUCTION STANDARD 29 CFR PART 1926 SUBPART P, OR CURRENT
- 53. AT LOCATIONS WHERE THE FINAL SURFACE COURSE OF ASPHALT PAVEMENT IS TO BE FEATHERED INTO THE EXISTING SURFACE COURSE, THE EXISTING SURFACE COURSE IS TO BE SCABBLED TO A MINIMUM DEPTH OF 1" AND A TACK COAT APPLIED PRIOR TO FINAL PAVING TO INSURE A SMOOTH, WELL BONDED JOINT.
- 54. ANY NEW PAVEMENT OPENED TO TRAFFIC SHALL RECEIVE A TACK COAT PRIOR TO PLACEMENT OF ANY OVERLYING ASPHALT COURSE.
- 55. ALL SIDEWALKS TO BE 4" THICK CONCRETE UNLESS OTHERWISE SHOWN ON THE PLAN.
- 56. ALL DEMOLITION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE APPROPRIATE GOVERNING AGENCY.
- 57. ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING DEMOLITION.
- 58. ITEMS SHOWN TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY CAN BE PLACED IN
- THEIR NEW LOCATION. CONTRACTOR SHALL VERIFY THESE ITEMS WITH THE OWNER, PRIOR TO CONSTRUCTION.
- LINES AND REMOVAL OF UTILITY POLES, PEDESTALS AND TRANSFORMERS WITH UTILITY COMPANIES AND WITH DEVELOPER PRIOR TO DEMOLITION.
- 60. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS AND/OR RECONSTRUCTION OF ALL UTILITY COVER (MANHOLE FRAMES AND COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
- 61. THE CONTRACTOR MUST HAVE THE APPROVED CONSTRUCTION DRAWINGS IN POSSESSION PRIOR TO THE START OF CONSTRUCTION. AT LEAST ONE (1)
- COPY OF THE APPROVED PLANS, WITH REVISIONS, MUST BE KEPT ON-SITE AT ALL TIMES. 62. ALL HANDICAP RAMPS SHALL BE BUILT IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE APPROPRIATE GOVERNING AGENCY STANDARDS,
- NCDOT STANDARDS, AND CURRENT ADA REQUIREMENTS.
- THE STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY ARE NOT ONLY 100% COMPLETE, BUT ALSO THAT 100% OF THE DRAINAGE AREA TO EACH FACILITY IS PERMANENTLY STABILIZED. SEED AND MULCH DOES NOT CONSTITUTE STABILIZATION IN TERMS OF THE CONTRACTOR MAINTENANCE OF THE STORM DRAIN, STORMWATER MANAGEMENT, AND WATER QUALITY FACILITIES. ALL STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES SHALL BE TURNED OVER TO THE OWNER COMPLETELY CLEAN AND FREE FROM ANY CONSTRUCTION RELATED SEDIMENT OR DEBRIS.
- 64. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL ADA ACCESSIBLE SIDEWALKS MAINTAIN SLOPES NOT TO EXCEED 5% LONGITUDINALLY AND 2% CROSS SLOPES. SLOPES AT ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL BE A MAXIMUM OF 2%, AND THE MANEUVERING CLEARANCE AT EXTERIOR ENTRANCES SHALL HAVE A MAXIMUM SLOPE OF 2%.
- 65. DURING CONSTRUCTION, NO TEMPORARY CONNECTIONS TO FIRE HYDRANTS MAY BE MADE WITHOUT THE EXPRESS AUTHORIZATION OF THE UTILITY OWNER.

TRACTOR SUPPLY COMPAN

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PLAN STATUS

1/10/23	1ST CD SUI	BMISSION
2/20/23	2ND CD SU	BMISSION
DATE	DESCRIP	TION
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = XX V: 1" = XX	
JOB No.	220127-0	01-001
DATE	January 1	0, 2023
FILE No.	220127-D	-CP-001
SHEET	C1.	1

SHEET

- 1. THIS IS A STANDARD SHEET. THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PROJECT.
- 2. ADDITIONAL LEGENDS AND NOTES MAY BE FOUND ON OTHER SHEETS ASSOCIATED WITH THIS PLAN. THESE LEGENDS AND NOTES ARE TO BE REFERENCED IN ADDITION TO THIS STANDARD SHEET.

- 1. UTILITY CONFLICTS: ALL EXISTING UTILITIES SHOWN WERE COMPILED USING THE BEST AVAILABLE INFORMATION AND FIELD OBSERVATION. BOWMAN NORTH CAROLINA LTD DOES NOT GUARANTEE THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON. CONTRACTOR TO BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF AND PROTECTING ALL EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN OR SHOWN INCORRECTLY ON THE PLANS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IN A TIMELY FASHION TO THE SATISFACTION OF THE APPROPRIATE GOVERNING AGENCY AND THE
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS FOR THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT THE JOB SITE AT ALL TIMES THE APPROPRIATE GOVERNING AGENCY'S PUBLIC WORKS MANUAL, ALL APPROVED EASEMENT AGREEMENTS, AND ONE (1) SIGNED COPY OF THE PLANS AS APPROVED BY THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY FOR ANY VARIANCE TO THE ABOVE DOCUMENTS.
- 3. CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE
- 4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER AND ENGINEER OF ANY PROBLEM CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS/HER CONSTRUCTION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN DEDICATED RIGHT-OF-WAY AND ALL
- 8. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION. THE APPROPRIATE FIRE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSURES AND IN THE EVENT THAT ANY FIRE HYDRANTS ARE TO BE TEMPORARILY REMOVED FROM SERVICE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING AT LEAST 48 HOURS ADVANCED NOTICE OF
- 9. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS OR OTHER DEVICES NECESSARY FOR SAFE TRAFFIC CONTROL IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE APPROPRIATE GOVERNING AGENCY PRIOR TO
- 10. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF NORTH CAROLINA AT 1-800-632-4949 AT LEAST 2 BUSINESS DAYS PRIOR TO
- 11. THE CONTRACTOR SHALL OBTAIN COPIES OF THE "SOILS AND INVESTIGATION" REPORT FROM GEOTECHNICAL ENGINEER ALONG WITH THE "PAVEMENT THICKNESS DESIGN REPORT". THE CONTRACTOR MUST HAVE COPIES OF SAME ON THE SITE AT ALL TIMES.
- 12. THE CONTRACTOR IS REQUIRED TO PROVIDE AS-CONSTRUCTED HORIZONTAL AND VERTICAL CONSTRUCTION INFORMATION, INCLUDING THE LOCATIONS OF ALL SANITARY LINES AND SERVICES, WATER LINES AND SERVICES, AND OTHER UTILITY LINES AND SERVICES TO THE ENGINEER FOR PREPARATION OF
- 13. LIMITS OF CONSTRUCTION EASEMENTS AND RIGHTS-OF-WAY SHALL BE DELINEATED WITH TEMPORARY STAKING BY THE CONTRACTOR. SAFETY FENCING
- 14. WHERE EXCAVATION IS REQUIRED UNDER EXISTING ASPHALT OR CONCRETE PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW CUT IN A MANNER TO EFFECT A SMOOTH, STRAIGHT-CUT EDGE. ASPHALT PATCH SHALL BE PER APPROPRIATE GOVERNING AGENCY STANDARDS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN DEDICATED RIGHT-OF-WAYS AND ALL
- 17. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY TO THE PROJECT WORK SITE (SEE THE EROSION CONTROL PLAN). THE CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV OBTAIN ALL PERMITS NECESSARY (IF APPLICABLE) TO COMPLETE THE CONSTRUCTION AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL
- 18. WATER WILL BE PROVIDED BY THE CONTRACTOR TO KEEP WIND EROSION IN CHECK. USE OF WATER AS A DUST PREVENTATIVE SHALL NOT BE PAID FOR
- 19. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE PROPERTY LIMITS DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE
- 20. ANY CONSTRUCTION DEBRIS OR MUD TRACKING IN THE PUBLIC RIGHT-OF-WAY RESULTING FROM THIS DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY THE DEVELOPMENT AND SHALL
- 21. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO GRADE STREET CORES, RIGHT-OF-WAY TEMPLATES, AND LOTS ACCORDING TO GRADING INSTRUCTIONS
- 22. STREET CONTOURS SHOWN AT PROPOSED STREET LOCATIONS REPRESENT FINISHED GRADE ELEVATION TO TOP OF ASPHALT.
- 23. COMPACTION FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE APPROPRIATE GOVERNING AGENCY REGULATIONS AND THE RECOMMENDATIONS OF
- 25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ALL APPROPRIATE PERMITS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN OBTAINED PRIOR TO GRADING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL TEMPORARY WATER DIVERSION/CONTROL DEVICES AND EROSION CONTROL DEVICES NECESSARY TO PROTECT ADJACENT PROPERTIES, WATERWAYS AND PUBLIC RIGHT-OF-WAY. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF SAID DEVICES THROUGHOUT CONSTRUCTION AND UNTIL THE PERMANENT PROTECTION
- 26. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT APPROVED ARCHITECTURAL/ MECHANICAL/ELECTRICAL/PLUMBING/STRUCTURAL
- 27. WHEN DURING THE COURSE OF CONSTRUCTION, ANY OBJECT OF AN UNUSUAL NATURE IS ENCOUNTERED. THE CONTRACTOR SHALL CEASE WORK IN THAT
- 28. THE EXISTING UNDERGROUND UTILITIES SHOW HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN IN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND
- 29. ALL STEPS WITH THREE OR MORE RISERS SHALL HAVE HAND RAILS, PER LOCAL CODE.
- 30. A SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF EXISTING ROAD TO PROPOSED CURB AND GUTTER AND/OR PROPOSED EDGE OF PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR THE PONDING OF ANY WATER IN THE ROADWAY. REMOVE AND RECONSTRUCT EXISTING PAVEMENT AND/OR CURB AS DICTATED BY FIELD CONDITIONS TO PROVIDE POSITIVE DRAINAGE AT TIE-IN-POINTS.
- 31. OVERLAY OF EXISTING PAVEMENT SHALL BE MINIMUM OF 1 1/2 INCH DEPTH; ANY COST ASSOCIATED WITH PAVEMENT OVERLAY, OR THE MILLING OF
- 34. ANY LIGHTING SHOWN HEREON IS AS SPECIFIED BY THE CLIENT AND IS INCLUDED FOR INFORMATION PURPOSES ONLY, AS DIRECTED BY THE OWNER AND/OR PUBLIC AGENCY REQUIREMENTS. BOWMAN CONSULTING GROUP, LTD. HAS NOT PERFORMED THE LIGHTING DESIGN, AND THEREFORE DOES NOT WARRANT AND IS NOT RESPONSIBLE FOR THE DEGREE AND/OR ADEQUACY OF ILLUMINATION ON THIS PROJECT.
- 35. THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ALL RESIDENCES WITHIN VICINITY OF THE PROPERTY BOUNDARY TEN (10) DAYS PRIOR TO ANY BLASTING
- 36. NO BLASTING SHALL BE PERMITTED WITHIN 25' OF EXISTING UTILITY LINES OR STRUCTURES, BLASTING TO BE EXTENDED 25' BEYOND PROPOSED
- 37. ALL RETAINING WALLS 4' IN HEIGHT AND OVER (MEASURED FROM BOTTOM OF FOOTER TO TOP OF WALL) REQUIRE A SEPARATE BUILDING PERMIT.
- 38. THE APPROVAL OF THIS PLAN DOES NOT CONSTITUTE THE APPROVAL OF FUTURE WORK.
- 39. ALL HANDICAPPED SPACES SHALL HAVE AN ABOVE GRADE IDENTIFICATION SIGN MEETING APPROPRIATE GOVERNING AGENCY STANDARDS.
- 40. WHERE A PROPOSED PIPE CROSSES OR PARALLELS A STREET OR DRIVE AISLE, THE ASPHALT SHALL BE NEATLY SAWCUT TO FULL DEPTH. AFTER INSTALLATION OF THE PIPE, THE ROADWAY SHALL BE PATCHED IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AGENCY STANDARDS.
- 41. REFER TO THE TOWN OF ZEBULON STREET STANDARDS AND SPECIFICATIONS MANUAL FOR APPLICABLE CONSTRUCTION REQUIREMENTS WITHIN THE TOWN

Cad file name: V: \220127 - Primax Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-NTS.dwg

IRON PIPE FOUND

IRON PIPE SET IRRIGATION

JUNCTION BOX

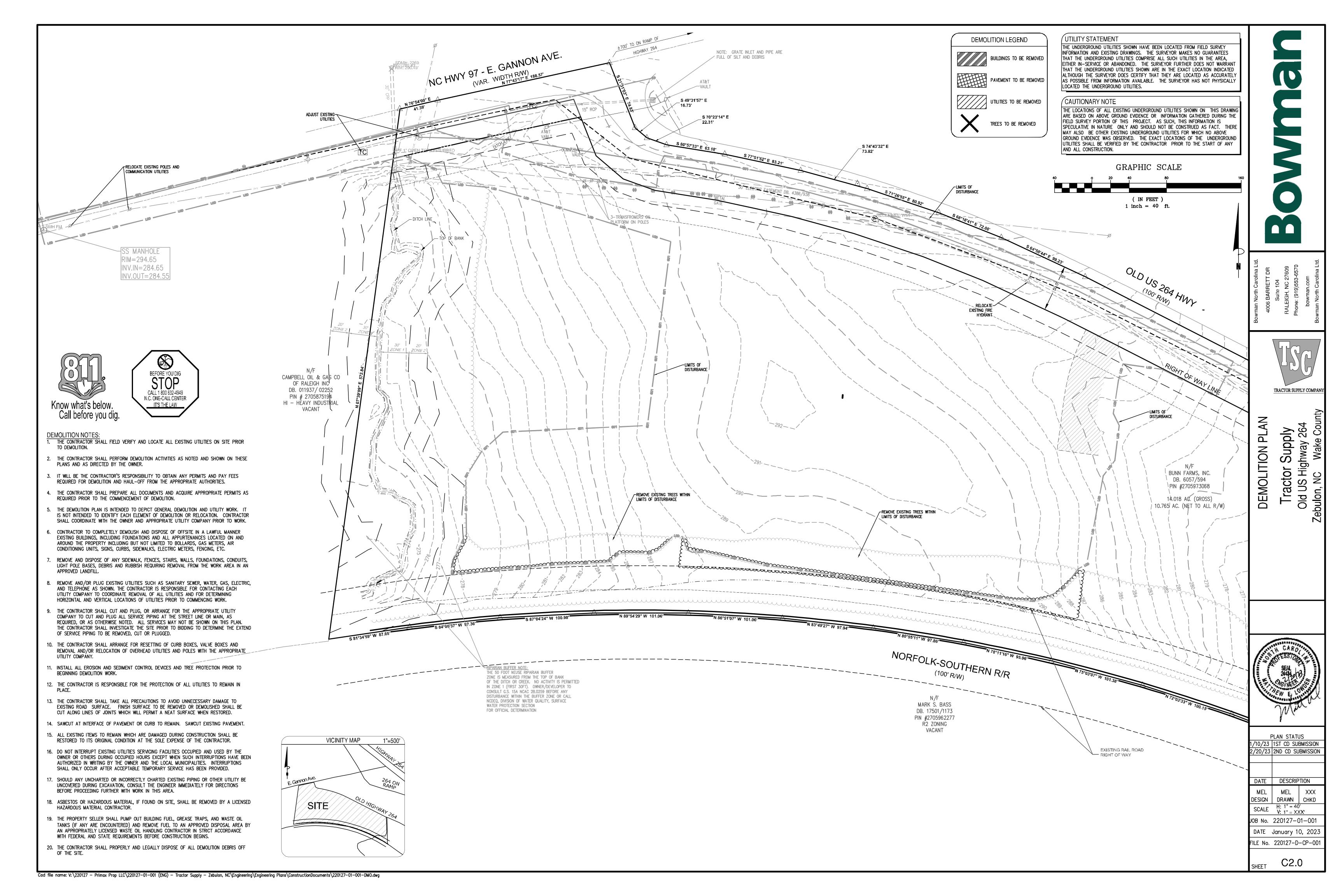
JOINT

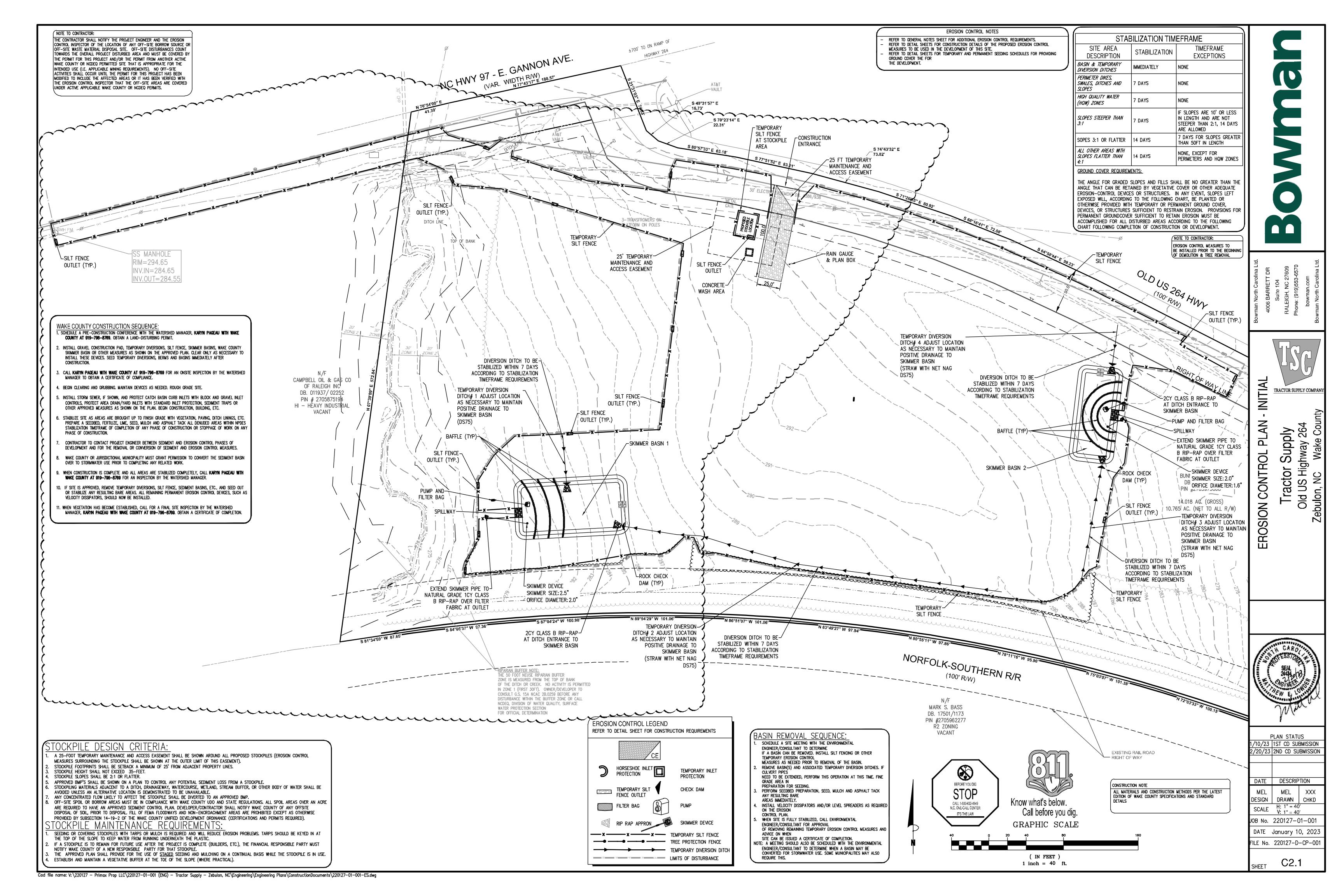
WATER VALVE

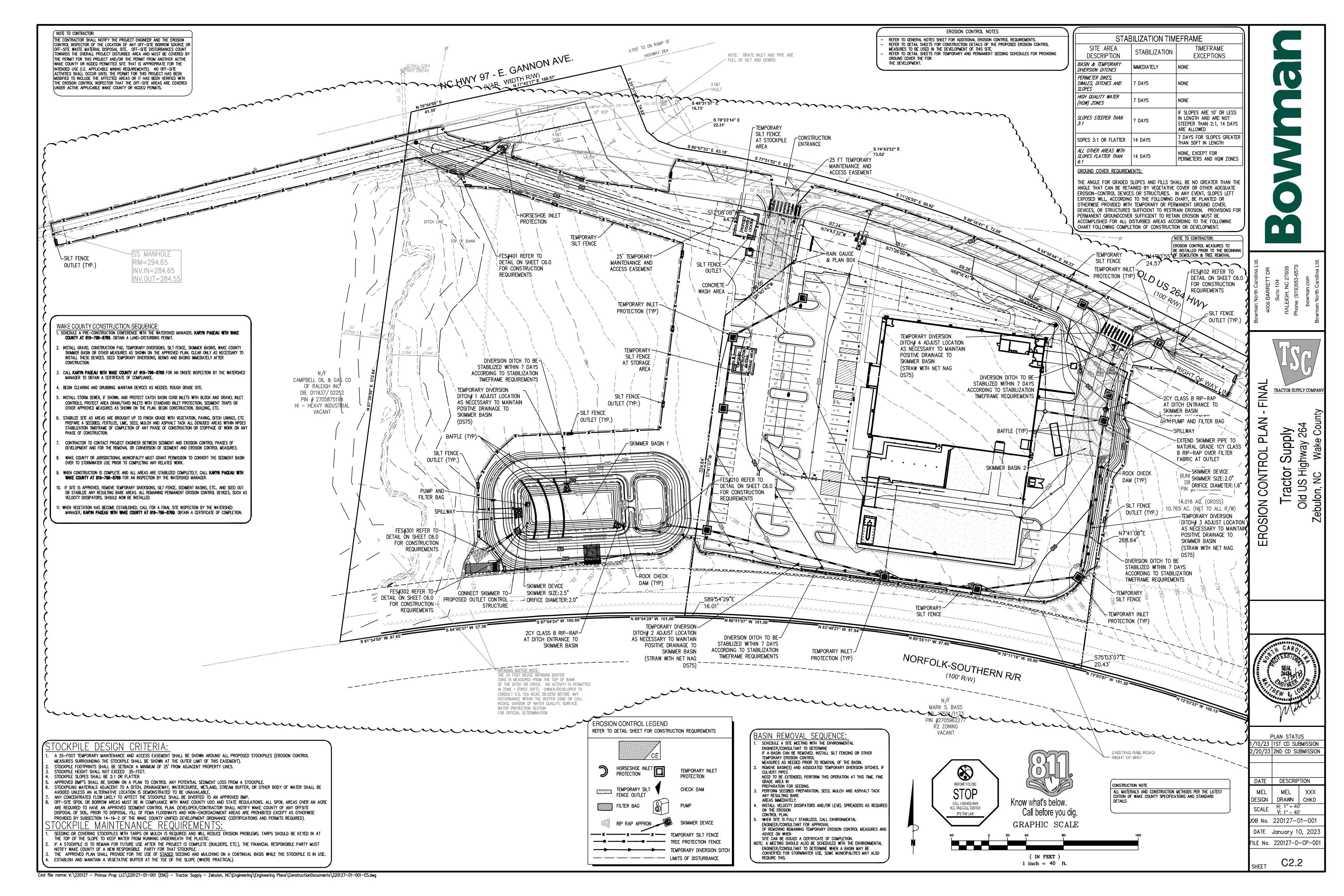
TRANSFORMER

YARD INLET YEAR

CROSSING







REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER THE FOR THE DEVELOPMENT.

BASIN NOTES:

SKIMMER BASIN DESIGN BASED ON 3 DAYS TO DRAIN.

BASIN AND DIVERSIONS SHALL BE SEEDED, MULCHED AND ANCHORED/LINED AND PINNED UPON INSTALLATION OF MEASURES.

NOTE TO CONTRACTOR:

EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE EROSION CONTROL INSPECTOR OF THE LOCATION OF ANY OFF-SITE BORROW SOURCE OR OFF-SITE WASTE MATERIAL DISPOSAL SITE. OFF-SITE DISTURBANCES COUNT TOWARDS THE OVERALL PROJECT DISTURBED AREA AND MUST BE COVERED BY THE PERMIT FOR THIS PROJECT AND/OR THE PERMIT FROM ANOTHER ACTIVE NCDEQ PERMITTED SITE THAT IS APPROPRIATE FOR THE INTENDED USE (I.E. APPLICABLE MINING REQUIREMENTS). NO OFF-SITE ACTIVITIES SHALL OCCUR UNTIL THE PERMIT FOR THIS PROJECT HAS BEEN MODIFIED TO INCLUDE THE AFFECTED AREAS OR IT HAS BEEN VERIFIED WITH THE EROSION CONTROL INSPECTOR THAT THE OFF-SITE AREAS ARE COVERED UNDER ACTIVE APPLICABLE NCDEQ PERMITS.

EROSION CONTROL NOTES:

- TOTAL AREA DISTURBED = 5.69 ACRES TOTAL SITE AREA = 3.766 ACRES
- SOIL TYPE = VANCE SANDY LOAM & HELENA SANDY LOAM
 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS
- AND SPECIFICATIONS OF THE NCDEQ EROSION AND SEDIMENT CONTROL HANDBOOK

 4. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
- 5. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- 6. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- 7. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 8. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDEQ EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 9. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO ANY OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
- 10. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NCDEQ FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
- 11. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-EEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- 12. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NCDEQ SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- 13. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- 14. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- 15. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- 16. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.
- 18. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- 19. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

EROSION CONTROL NARRATIVE:

TRACTOR SUPPLY CO., TOWN OF ZEBULON, WAKE COUNTY, NO

CONTRACTOR WILL FIRST INSTALL THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL THEN MOBILIZE ON SITE AND INSTALL THE TEMPORARY EROSION CONTROL DEVICES INCLUDING SILT FENCE, INLET PROTECTION, SKIMMER BASINS, AND OTHER DEVICES IN ACCORDANCE WITH THE PLANS (CLEARING ONLY AS NECESSARY TO INSTALL THESE ITEMS). BEGIN DEMOLITION, CLEARING AND SITE GRADING OPERATIONS. STABILIZATION OF EARTHEN STRUCTURES IS REQUIRED IMMEDIATELY AFTER INSTALLATION. THE ON-SITE STORM SEWER SYSTEM AND THE LEVEL-SPREADER FILTER STRIP CAN NOW BE INSTALLED. IMMEDIATELY AFTER AN INLET IS INSTALLED, INLET PROTECTION SHALL BE PROPERLY INSTALLED ON THE STRUCTURE. ONCE THE SITE IS READY TO BRING UP TO GRADE, REMOVE SKIMMER BASIN #2. THE ON-SITE SANITARY SEWER AND WATER SYSTEMS MAY ALSO BE INSTALLED ONCE THE SITE IS BROUGHT UP TO GRADE. THE SITE PAD WILL BE PREPARED FOR THE PROPOSED BUILDING. THE ROUGH GRADE WILL THEN BE ESTABLISHED FOR THE SITE. INSTALLATION OF CURB AND GUTTER WILL THEN BE PERFORMED. BASE STONE WILL THEN BE PLACED AND FINE GRADED. ALL DISTURBED AREAS WILL BE DRESSED AND SEEDED. REMOVE ALL INLET PROTECTION FROM STORM STRUCTURES WHEN PAVING IS TO BEGIN. PAVING AND STRIPING WILL THEN BE COMPLETED. FINALIZE STORMWATER POND STRUCTURE AND DISCHARGE PIPES ONCE UPSTREAM AREAS HAVE BEEN STABILIZED (REMOVE ACCUMULATED SEDIMENT). ALL LANDSCAPING WILL BE COMPLETED. THE ON-SITE STORM SEWER SYSTEM SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT WHICH SHALL BE DISPOSED OF IN A LAWFUL MANNER. ALL ACCUMULATED SEDIMENT BEHIND SILT FENCE AND OTHER SEDIMENT DEVICES SHALL BE REMOVED AND DISPOSED OF IN A LAWFUL MANNER. ACCORDING TO THE GROUND STABILIZATION REQUIREMENTS ON THIS SHEET, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES FROM THE SITE. CONTRACTOR SHALL MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL LAND DISTURBANCE AND FINAL VEGETATION STABILIZATION OF THE SITE.

THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE INTENDED TO TRAP ANY STORMWATER RUNOFF FROM THE CONSTRUCTION SITE AND DETAIN IT LONG ENOUGH FOR SEDIMENT AND POLLUTANTS TO SETTLE OUT OF THE STORMWATER BEFORE DISCHARGE. VARIOUS EROSION CONTROL MEASURES ARE USED TO PREVENT POLLUTANT—LADEN STORMWATER RUNOFF FROM FLOWING ONTO ADJACENT PROPERTIES.

GENERAL NOTES: 1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC.

- 2. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED FOR A COMPLETE AND WORKING
- 3. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 4. CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
- 5. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
- 6. THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.

SEDIMENT & EROSION CONTROL NOTES:

- 1. THE EROSION AND SEDIMENTATION CONTROL MEASURES (BMPS) WERE DESIGNED USING THE NORTH CAROLINA NCDEQ REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
- 2. REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP—RAP APRONS AND OTHER EROSION CONTROL MEASURES.
- 3. EXISTING BOUNDARIES, TOPOGRAPHY, 100-YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE
- 4. SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.
- 5. TEMPORARY DIVERSION DITCHES AND BERMS SHALL BE MAINTAINED AS THE SITE IS BROUGHT TO
- 6. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 7. SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING GRADING ACTIVITIES.
- 8. SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS SHEET.
- 9. WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF, SF-PF, OR PF) LIMITS ARE ADJACENT, THE TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.
- THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR ILLUSTRATED.

10. CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF

- 11. PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL, DE-WATERING, SOLID WASTE DISPOSAL, AND HAZARDOUS MATERIALS.
- 12. CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES. MASS CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.
- 13. USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE, IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION.

14. DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION

- DITCHES AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND SLOPES DRAINS TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES.

 15. MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION.
- PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY.

16. REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND

- ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS.

 17. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED.
- BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.
- 18. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 19. ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.
- 20. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
- 21. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
- 22. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.
- 23. ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
- 24. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.
- 25. CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF NCDEQ INSPECTOR.

NORTH CAROLINA CONSTRUCTION GENERAL PERMIT NOTE:

As of April 1, 2019, all new construction activities are required to complete and submit an electronic Notice of Intent (NOI) form requesting a Certificate of Coverage (COC) under the NCG010000 Construction Stormwater General Permit. This form MUST be submitted prior to the commencement of any land disturbing activity on the above named project. The NOI form may be accessed at deq.nc.gov/NCG01. Please direct questions about the NOI form to Paul Clark at Paul.clark@ncdenr.gov.

After you submit a complete and correct NOI Form, a COC will be emailed to you within three business days. Initially, DEMLR will not charge a fee for coverage under the NCG01 permit. However, on or after May 1, 2019, a \$100 fee will be charged annually. This fee is to be sent to the DEMLR Stormwater Central Office staff in Raleigh.

Title 15A NCAC 4B .0118(a) and the NCG01 permit require that the following documentation be kept on file

- at the job site:
 1. The approved E&SC plan as well as any approved deviation.
- 2. The NCG01 permit and the COC, once it is received.
- 3. Records of inspections made during the previous 30 days.4. The Certificate of Approval

NOTIFICATION OF COMBINED SELF-MONITORING AND SELF-INSPECTION FORM:

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010.

TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, DWQ AND DEMLR DEVELOPED A COMBINED FORM. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT: https://portal.ncdenr.org/web/lr/erosion

IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CALL THE APPLICABLE NCDENR REGIONAL OFFICE: (RALEIGH: 919-791-4200) (FAYETTEVILLE: 910-433-3300) (WILMINGTON: 910-796-7215) (WASHINGTON: 252-946-6481) (WINSTON-SALEM: 336-771-5000) (MOORESVILLE: 704-663-1699) (ASHEVILLE: 828-296-4500).

TREE PROTECTION NOTES:

- 1. THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS. THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.
- 2. WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER AND IMMEDIATELY COVER ALL ROOT CUT SURFACES LARGER THAN TWO INCHES IN DIAMETER WITH TREE WOUND DRESSING. USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK.
- 3. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- 4. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED.
- 5. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.
- 6. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE.

SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.



RALEIGH, NC 2760 Phone: (919)553-657 bowman.com



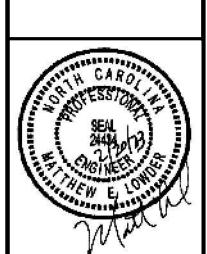
ROL NOTES

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vay 264

Tractor Supply Old US Highway 20

8

ROSION



SHEET

PLAN STATUS /10/23 | 1ST CD SUBMISSION

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

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 (HQV Zones) 7	None		
(c) Slopes steeper than 3:1	7			
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed		
(e) Areas with slopes flatter than 4:1	14	 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless ther 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:

- other mulches and tackifiers
- Temporary grass seed covered with straw or | * Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil Hydroseeding Rolled erasion control products with or reinforcement matting Hydroseeding without temporary grass seed
- Appropriately applied straw or other mulch
 Shrubs or other permanent plantings covered Plastic sheeting. with mulch + Uniform and evenly distributed ground cover sufficient to restrain erosion + Structural methods such as concrete, asphalt or

retaining walls

Rolled erosion control products with grass seed.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite. 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. Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste
- (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem has been
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE Never bury or burn waste. Place litter and debris in approved waste containers.

- 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. . Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless
- no other alternatives are reasonably available. . Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- . Cover waste containers at the end of each workday and before storm events or provide secondar containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if containers
- 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

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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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

ONSITE CONCRETE WASHOUT

NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE . THE CONCRETE WASHOUT STRUCTURES SHALL BE

ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES

ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

75% OF THE STRUCTURES CAPACITY TO PROVIDE

CONCRETE WASHOUTS

75% OF THE STRUCTURES CAPACITY.

MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES

BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE

- . Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state soli
- waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place th 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. I local standard details are not available, use one of the two types of temporary concrete
- washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm
- drain system or receiving surface waters. Liquid waste must be pumped out and removed from 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. Pos signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit overflow events.
- Replace the tarp, sand bags or other temporary structural components when no longer functional When utilizing alternative or proprietary products, follow manufacturer's instructions. 0. At the completion of the concrete work, remove remaining leavings and dispose of in an approve
- disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of

HERBICIDES, PESTICIDES AND RODENTICIDES

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

EFFECTIVE: 04/01/19

occurs, clean area immediately. . Do not stockpile these materials onsite.

ZARDOUS AND TOXIC WASTE

Create designated hazardous waste collection areas on—site. Place hazardous waste containers under cover or in secondary containment.

Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

PART III SELF-INSPECTION, RECORDIKEEPING AND REPORTING

| business hours | Daily rainfall amounts.

(during normal

[|1| Karngauge

maintained in

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.

inspection records must include:

If no daily rain gauge observations are made during weekend or

radinical near ne		I no carry rain gauge observations are made daring neckens of
good working		holiday periods, and no individual-day rainfall information is
order		available, record the cumulative rain measurement for those un-
		attended days land this will determine if a site inspection is
		needed). Pays on which no rainfall occurred shall be recorded a:
		"zero." The permittee may use another rain-monitoring device
		approved by the Division.
[2] E&SC	At least once per	Identification of the measures inspected,
Measures	7 calendar days	2. Date and time of the inspection,
	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Indication of whether the measures were operating
	event ≥ 1.0 inch in	properly,
	24 hours	5. Description of maintenance needs for the measure,
		6. Description, evidence, and date of corrective actions taken.
ISI Stormwater	At least once per	Identification of the discharge outfalls inspected.
discharge	7 calendar days	Date and time of the inspection,
outfalk (SDOs)	and within 24	Name of the person performing the inspection,
onnais lancel	hours of a rain	Name or the person perior ming the inspection, Evidence of indicators of stormwater pollution such as oil
	event > 1.0 mch in	sheen, floating or suspended solids or discoloration,
	24 hours	5. Indication of visible sediment leaving the site,
		B. Description, evidence, and date of corrective actions taken.
[4] Perimeter of	At least once per	If visible sedimentation is found outside site limits, then a record
site	7 calendar days	of the following shall be made:
	and within 24	1. Actions taken to clean up or stabilize the sediment that has left
	hours of a rain	the site limits,
	event > 1.0 inch in	2. Description, evidence, and date of corrective actions taken, and
	24 hours	3. An explanation as to the actions taken to control future
		re leases.
ISI Streams or	At least once per	If the stream or wetland has increased visible sedimentation or a
wetlands onsite	7 calendar days	stream has visible increased turbidity from the construction
oroffsite	and within 24	activity, then a record of the following shall be made:
Iwhere		
	Lhours of a rain	l 1. Description, evidence and date of corrective actions taken, and
ser accibilat	hours of a rain	
accessible)	event \geq 1.0 inch in	2. Records of the required reports to the appropriate Division
accessible		Regional Office per Part III, Section C, Item [2] al of this permit
	event ≥ 1.0 inch in 24 hours	 Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2][a] of this permit of this permit.
[b] Sround	event ≥ 1.0 inch in 24 hours After each phase	Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2][a] of this permit of this permit. The phase of grading Jinstallation of permitter E&SC.
[6] Ground stabilization	event ≥ 1.0 inch in 24 hours	Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2] align of this permit of this permit. The phase of grading Installation of permitter ESSC measures, clearing and grubbing Installation of storm
[b] Sround	event ≥ 1.0 inch in 24 hours After each phase	Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2] ali of this permit of this permit. The phase of grading Jinstallation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing.
[6] Ground stabilization	event ≥ 1.0 inch in 24 hours After each phase	Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2] a) of this permit of this permit. The phase of grading jinstallation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent.
[6] Ground stabilization	event ≥ 1.0 inch in 24 hours After each phase	Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2][a] of this permit of this permit. The phase of grading linstallation of perimeter EBSC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).
[6] Ground stabilization	event ≥ 1.0 inch in 24 hours After each phase	Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2] a) of this permit of this permit. The phase of grading jinstallation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent.

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

timeframe or an assurance that they will be provided as

5. Documentation to be Retained for Three Years

SECTION B: RECORDKEEPING

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

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

- (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

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]

SELF-INSPECTION, RECORDKEEPING AND REPORTING

. E&SC Plan Documentation

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.

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.
- 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.

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.

(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	porting Timeframes (After Discovery) and Other Requirements	
(a) Visible sediment	Within 24 hours, an oral or electronic notification.	
deposition in a	Within 7 colendor doys, a report that contains a description of th	9
stream or wetland	sediment and actions taken to address the cause of the depositio	п.
	Division staff may waive the requirement for a written report on a	а
	case-by-case basis.	
	If the stream is named on the ${ m NC~303(d)~list}$ as impaired for sedim	nent-
	related causes, the permittee may be required to perform additio	nal
	monitoring, inspections or apply more stringent practices if staff	
	determine that additional requirements are needed to assure con	npliar
	with the federal or state impaired-waters conditions.	
(b) Oil spills and	Within 24 hours, an oral or electronic notification. The notification	ÞΠ
release of	shall include information about the date, time, nature, volume an	ıd
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 possib	
bypasses [40 CFR	The report shall include an evaluation of the anticipated quality a	пd
122.41(m)(3)]	effect of the bypass.	
(d) Unanticipated	Within 24 hours, an oral or electronic notification.	
bypasses [40 CFR	Within 7 colendor days, a report that includes an evaluation of th	12
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 th	e
of this permit that	noncompliance, and its causes; the period of noncompliance,	
may endanger	including exact dates and times, and if the noncompliance has no	t
health or the	been corrected, the anticipated time noncompliance is expected t	to
environment[4 0	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 :	8

case-by-case basis.

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

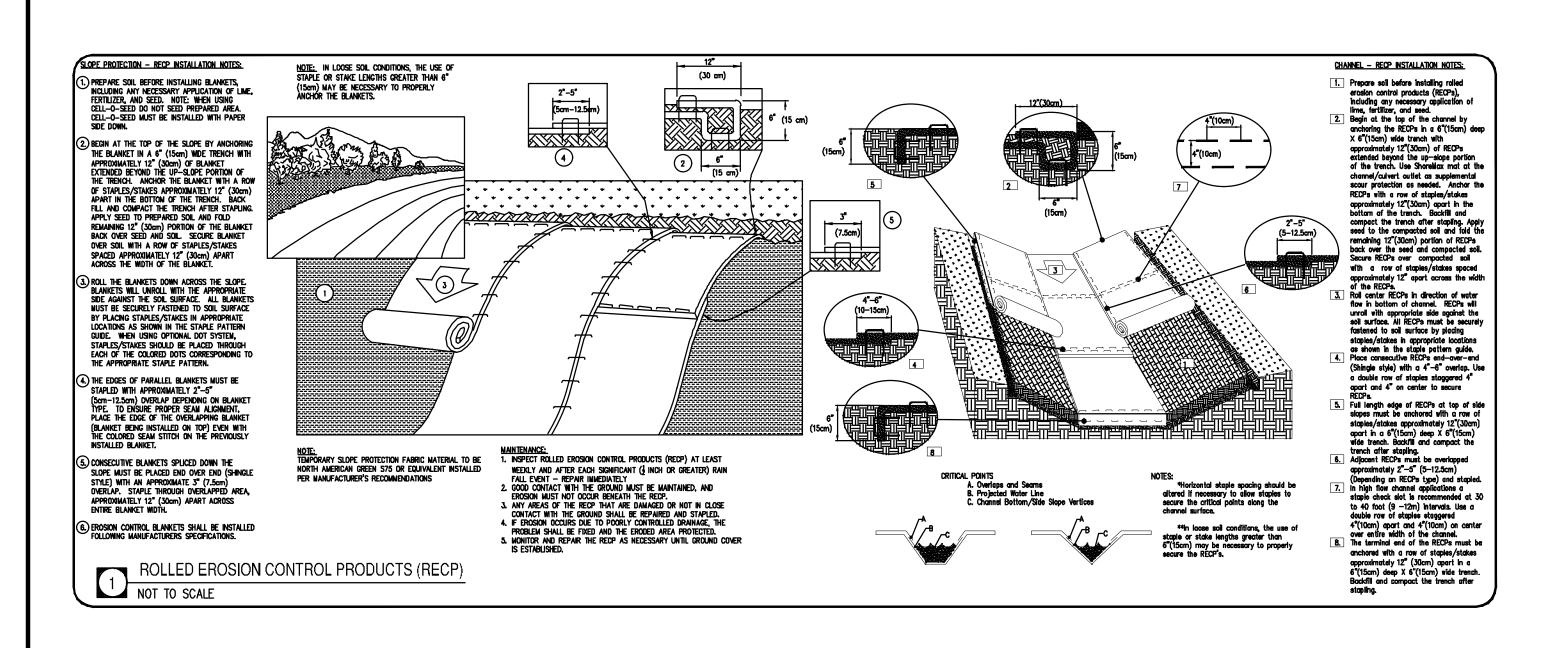
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw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

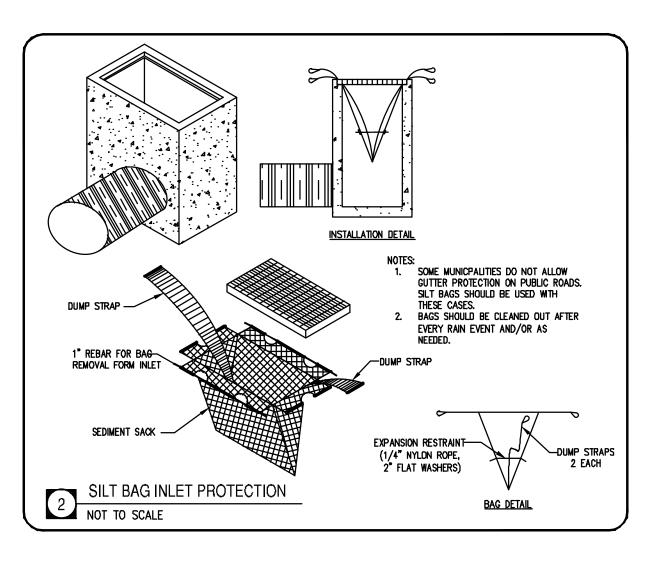
(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19





(NCG01) NOT TRACTOR SUPPLY COMPAN

PERMIT Supply ghway 264 RAL Tractor Old US Hig CONSTRUCTION GENE

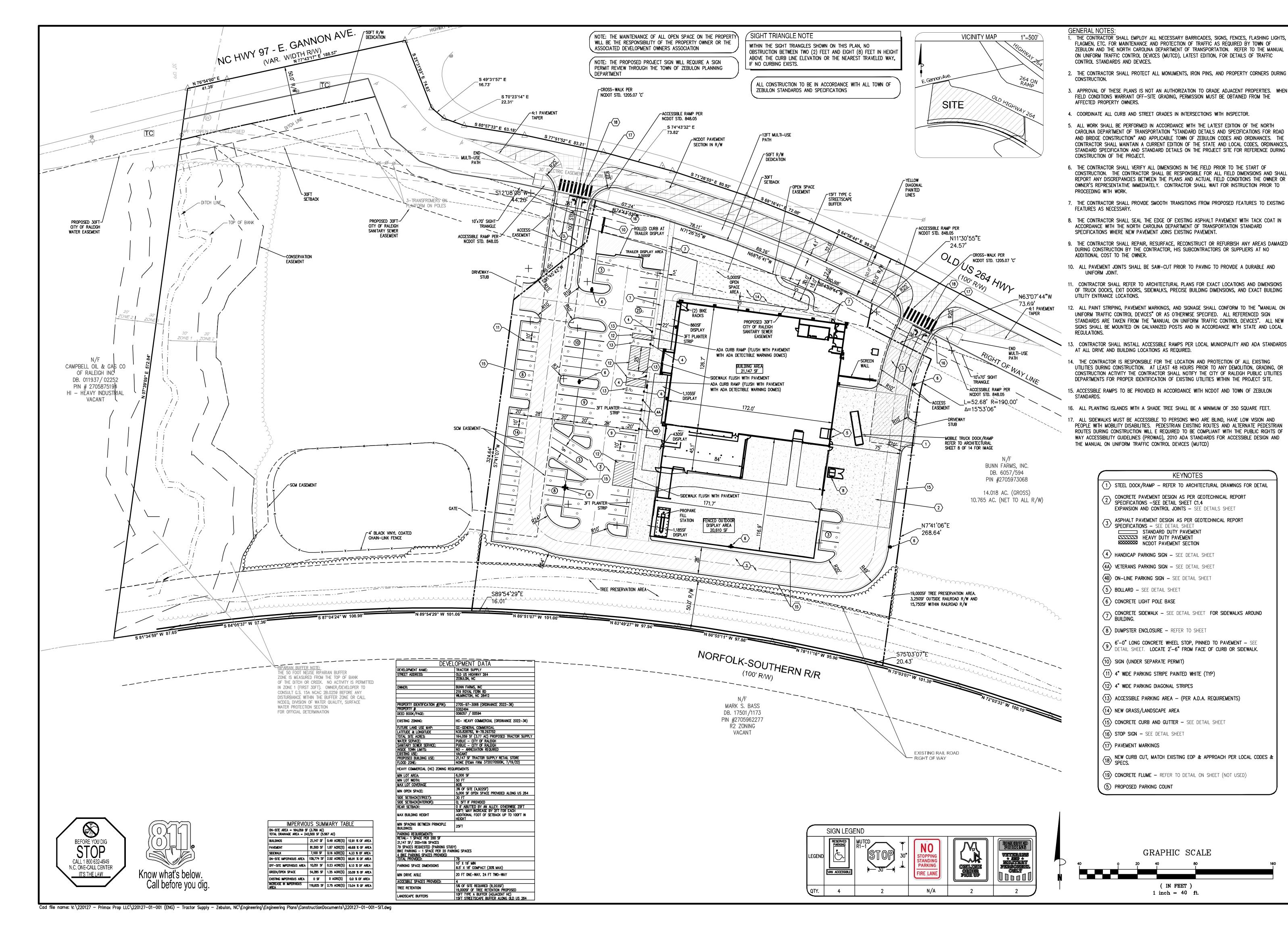
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PLAN STATUS /10/23 |1ST CD SUBMISSION 20/23|2ND CD SUBMISSION DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE V: N/A JOB No. 220127-01-001

FILE No. 220127-D-CP-00

SHEET

DATE January 10, 2023



RALEIGH, NC 27609 Phone: (919)553-6570 bowman.com

TRACTOR SUPPLY COMPANY

SITE PLAN

Tractor Supply
Old US Highway 264
bulon, NC Wake Coun

CARO SEAL LB S

PLAN STATUS

1/10/23 | 1ST CD SUBMISSION

2/20/23 | 2ND CD SUBMISSION

DATE DESCRIPTION

MEL MEL XXX

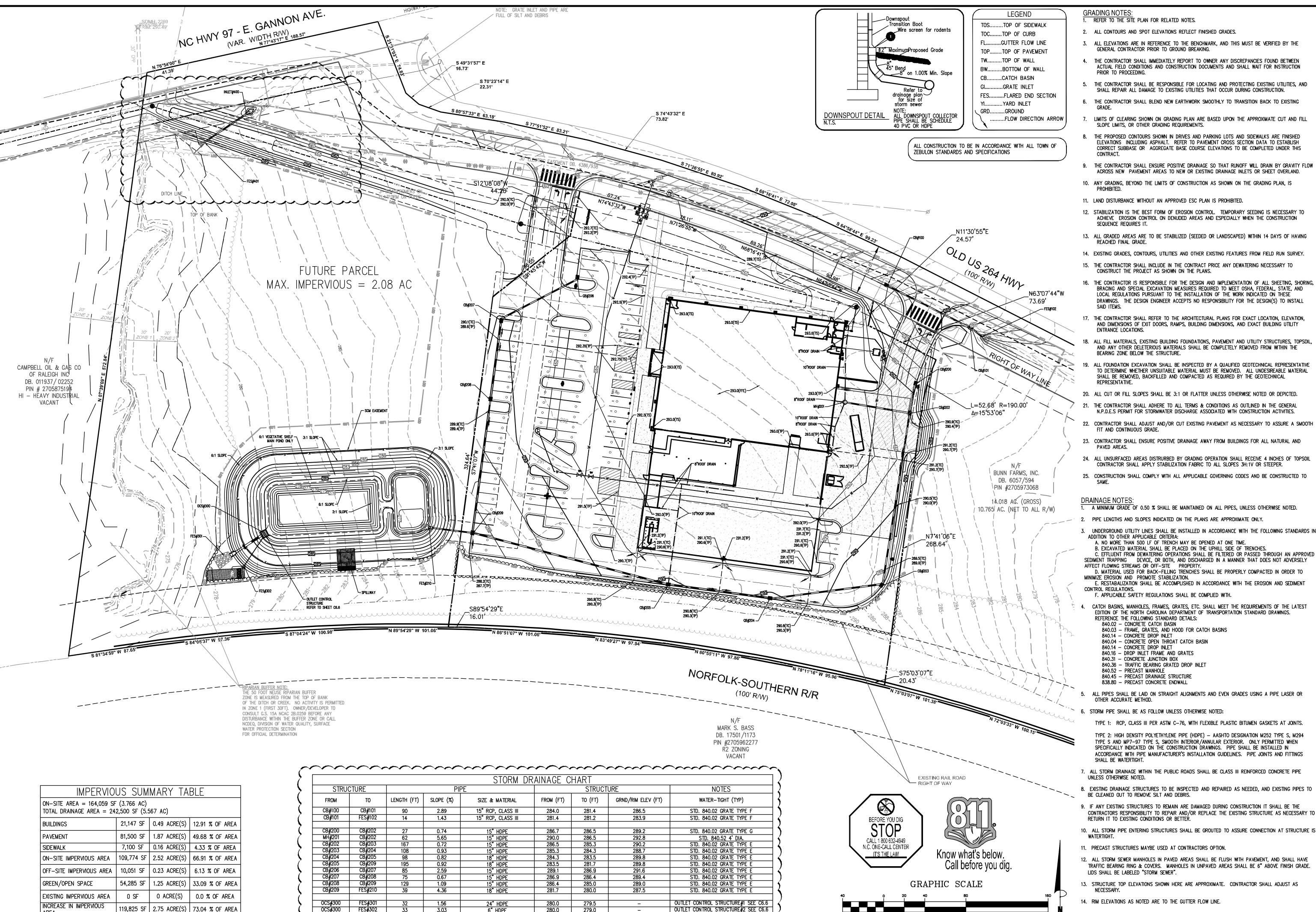
DESIGN DRAWN CHKD

SCALE H: 1" = 40'
V: 1" = XXX'

JOB No. 220127-01-001

DATE January 10, 2023

FILE No. 220127-D-CP-00 SHEET **C3.0**



Cad file name: V:\220127 - Primax Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-GRP.dwg

- ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING
- LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL
- THE PROPOSED CONTOURS SHOWN IN DRIVES AND PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS
- 9. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET OVERLAND.
- 10. ANY GRADING, BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING PLAN, IS
- 11. LAND DISTURBANCE WITHOUT AN APPROVED ESC PLAN IS PROHIBITED.
- 12. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION
- 13. ALL GRADED AREAS ARE TO BE STABILIZED (SEEDED OR LANDSCAPED) WITHIN 14 DAYS OF HAVING
- 15. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO
- 16. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL
- 17. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION, ELEVATION, AND DIMENSIONS OF EXIT DOORS, RAMPS, BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY
- ALL FILL MATERIALS, EXISTING BUILDING FOUNDATIONS, PAVEMENT AND UTILITY STRUCTURES, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW THE STRUCTURE.
- ALL FOUNDATION EXCAVATION SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE TO DETERMINE WHETHER UNSUITABLE MATERIAL MUST BE REMOVED. ALL UNDESIREABLE MATERIAL SHALL BE REMOVED, BACKFILLED AND COMPACTED AS REQUIRED BY THE GEOTECHNICAL
- 20. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED OR DEPICTED.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 22. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH
- 23. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND
- 24. ALL UNSURFACED AREAS DISTRURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL
- 25. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO
- I. A MINIMUM GRADE OF 0.50 % SHALL BE MAINTAINED ON ALL PIPES, UNLESS OTHERWISE NOTED.
- 2. PIPE LENGTHS AND SLOPES INDICATED ON THE PLANS ARE APPROXIMATE ONLY.
- ADDITION TO OTHER APPLICABLE CRITERIA: A. NO MORE THAN 500 LF OF TRENCH MAY BE OPENED AT ONE TIME.
- B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED
- AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. D. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO
- MINIMIZE EROSION AND PROMOTE STABILIZATION. E. RESTABALIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT
- F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- CATCH BASINS, MANHOLES, FRAMES, GRATES, ETC. SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS.
- REFERENCE THE FOLLOWING STANDARD DETAILS: 840.02 - CONCRETE CATCH BASIN
- 840.03 FRAME, GRATES, AND HOOD FOR CATCH BASINS
- 840.14 CONCRETE DROP INLET 840.04 - CONCRETE OPEN THROAT CATCH BASIN
- 840.14 CONCRETE DROP INLET 840.16 - DROP INLET FRAME AND GRATES
- 840.36 TRAFFIC BEARING GRATED DROP INLET 840.52 - PRECAST MANHOLE
- 840.45 PRECAST DRAINAGE STRUCTURE 838.80 - PRECAST CONCRETE ENDWALL
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR
- 6. STORM PIPE SHALL BE AS FOLLOW UNLESS OTHERWISE NOTED:
 - TYPE 1: RCP, CLASS III PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS.
 - TYPE 2: HIGH DENSITY POLYETHYLENE PIPE (HDPE) AASHTO DESIGNATION M252 TYPE S, M294 TYPE S AND MP7-97 TYPE S, SMOOTH INTERIOR/ANNULAR EXTERIOR. ONLY PERMITTED WHEN SPECIFICALLY INDICATED ON THE CONSTRUCTION DRAWINGS. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTALLATION GUIDELINES. PIPE JOINTS AND FITTINGS
- 7. ALL STORM DRAINAGE WITHIN THE PUBLIC ROADS SHALL BE CLASS III REINFORCED CONCRETE PIPE
- 8. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO
- 9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO
- 10. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS
- 11. PRECAST STRUCTURES MAYBE USED AT CONTRACTORS OPTION.
- 12. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE.
- 13. STRUCTURE TOP ELEVATIONS SHOWN HERE ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS
- 14. RIM ELEVATIONS AS NOTED ARE TO THE GUTTER FLOW LINE.

(IN FEET)

1 inch = 40 ft.



TRACTOR SUPPLY COMPA

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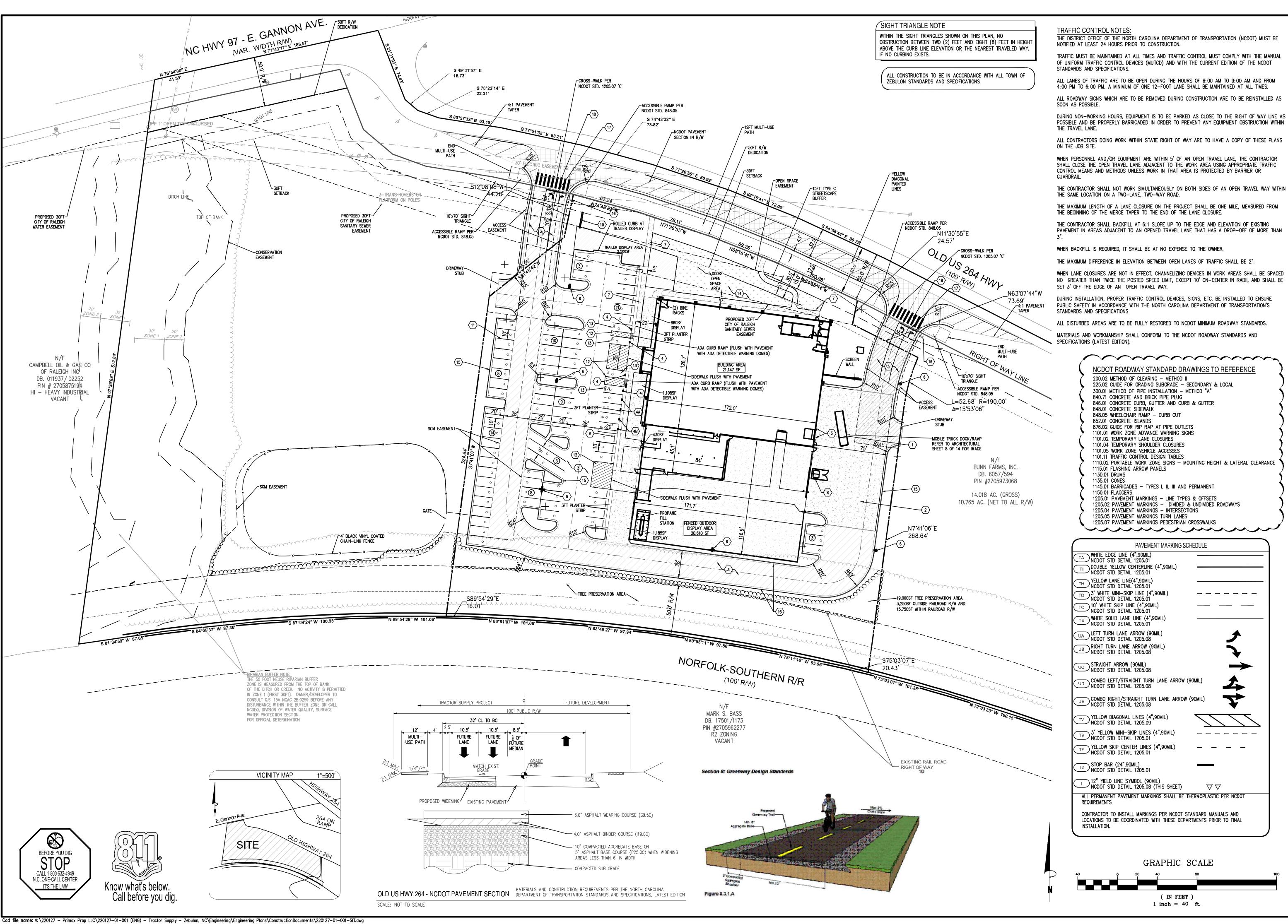
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PLAN STATUS

/23	1ST CD SU	BMISSION
/23	2ND CD SU	BMISSION
TE	DESCRIP	TION
EL	MEL	XXX
IGN	DRAWN	CHKD
ALE	H: 1" = 40 V: 1" = XX	
No.	220127-0	01-001
TE	January 1	0, 2023
No.	220127-D	-CP-001
		-

C4.0 SHEET



THE DISTRICT OFFICE OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.

TRAFFIC MUST BE MAINTAINED AT ALL TIMES AND TRAFFIC CONTROL MUST COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND WITH THE CURRENT EDITION OF THE NCDOT

ALL LANES OF TRAFFIC ARE TO BE OPEN DURING THE HOURS OF 6:00 AM TO 9:00 AM AND FROM

4:00 PM TO 6:00 PM. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED AT ALL TIMES.

ALL ROADWAY SIGNS WHICH ARE TO BE REMOVED DURING CONSTRUCTION ARE TO BE REINSTALLED AS

DURING NON-WORKING HOURS, EQUIPMENT IS TO BE PARKED AS CLOSE TO THE RIGHT OF WAY LINE AS

ALL CONTRACTORS DOING WORK WITHIN STATE RIGHT OF WAY ARE TO HAVE A COPY OF THESE PLANS

WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 5' OF AN OPEN TRAVEL LANE, THE CONTRACTOR

SHALL CLOSE THE OPEN TRAVEL LANE ADJACENT TO THE WORK AREA USING APPROPRIATE TRAFFIC CONTROL MEANS AND METHODS UNLESS WORK IN THAT AREA IS PROTECTED BY BARRIER OR

THE CONTRACTOR SHALL NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF AN OPEN TRAVEL WAY WITHIN THE SAME LOCATION ON A TWO-LANE, TWO-WAY ROAD.

THE MAXIMUM LENGTH OF A LANE CLOSURE ON THE PROJECT SHALL BE ONE MILE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

THE CONTRACTOR SHALL BACKFILL AT 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF OF MORE THAN

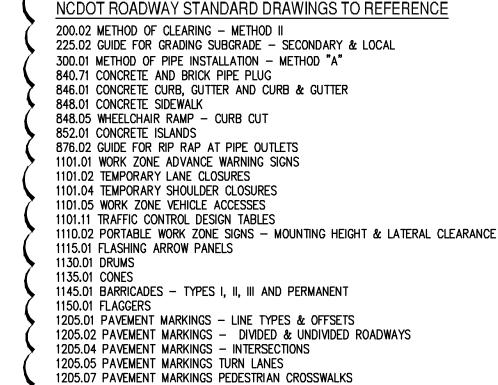
WHEN BACKFILL IS REQUIRED, IT SHALL BE AT NO EXPENSE TO THE OWNER.

THE MAXIMUM DIFFERENCE IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC SHALL BE 2".

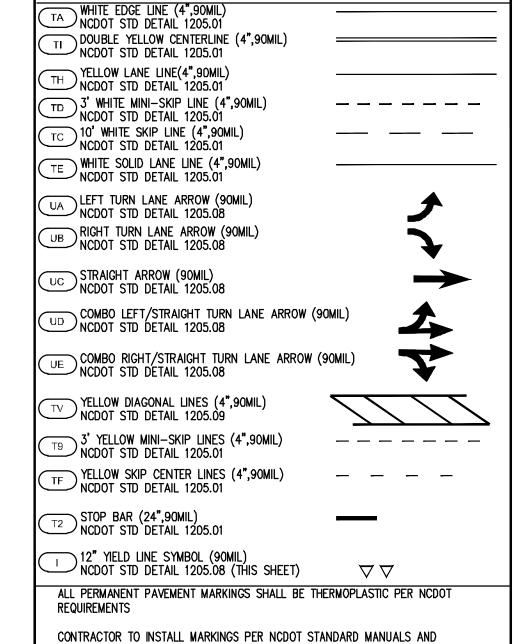
WHEN LANE CLOSURES ARE NOT IN EFFECT, CHANNELIZING DEVICES IN WORK AREAS SHALL BE SPACED NO GREATER THAN TWICE THE POSTED SPEED LIMIT, EXCEPT 10' ON-CENTER IN RADII, AND SHALL BE SET 3' OFF THE EDGE OF AN OPEN TRAVEL WAY.

DURING INSTALLATION, PROPER TRAFFIC CONTROL DEVICES, SIGNS, ETC. BE INSTALLED TO ENSURE PUBLIC SAFETY IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S STANDARDS AND SPECIFICATIONS

MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NCDOT ROADWAY STANDARDS AND SPECIFICATIONS (LATEST EDITION).

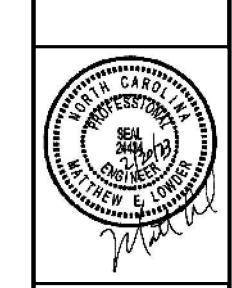


PAVEMENT MARKING SCHEDULE



GRAPHIC SCALE

(IN FEET) 1 inch = 40 ft.



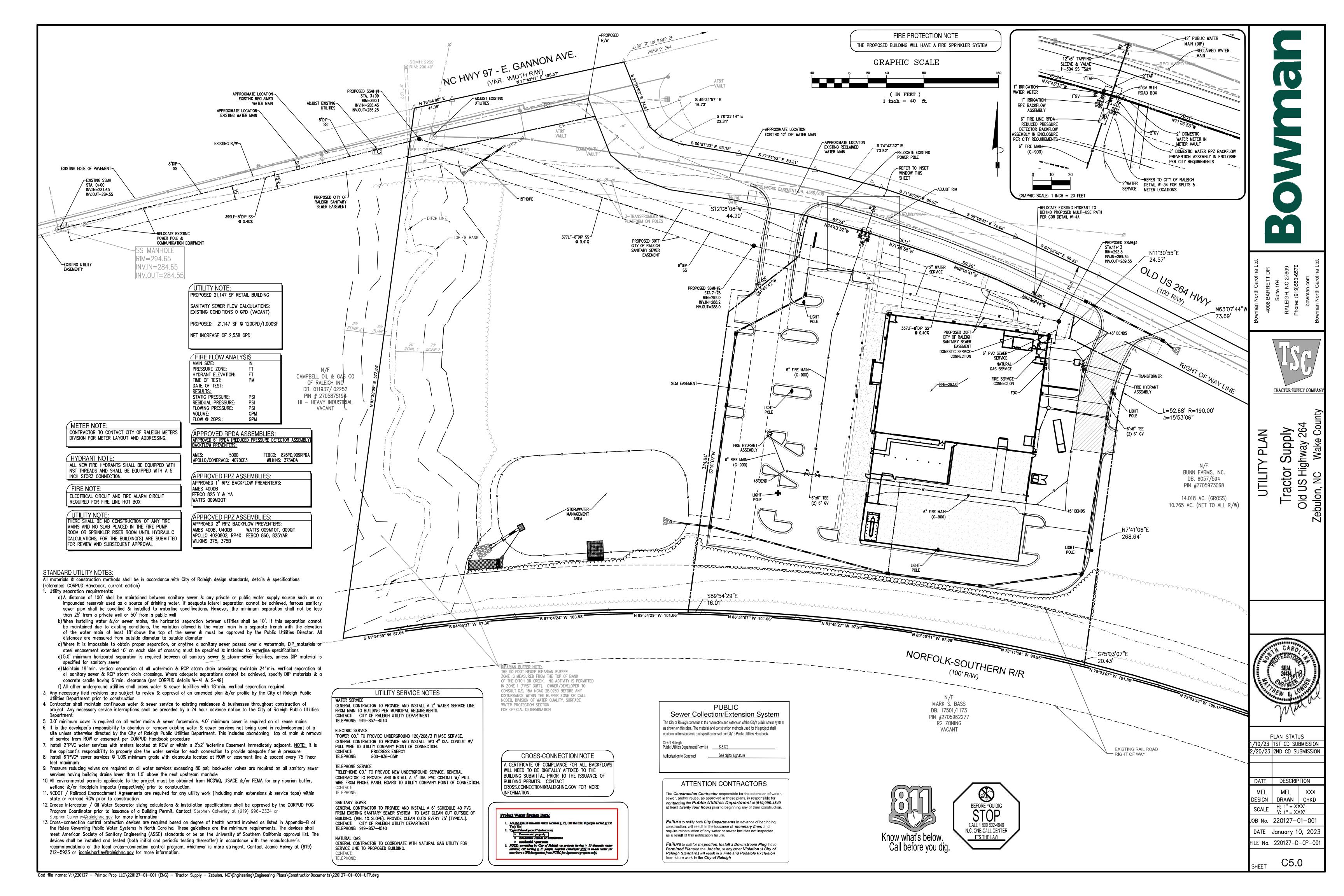
PLAN STATUS 10/23 |1ST CD SUBMISSION /20/23 2ND CD SUBMISSION DATE DESCRIPTION MEL | MEL | XXX DESIGN | DRAWN | CHKD SCALE H: 1" = 40' V: 1" = XXX' JOB No. 220127-01-001 DATE January 10, 2023

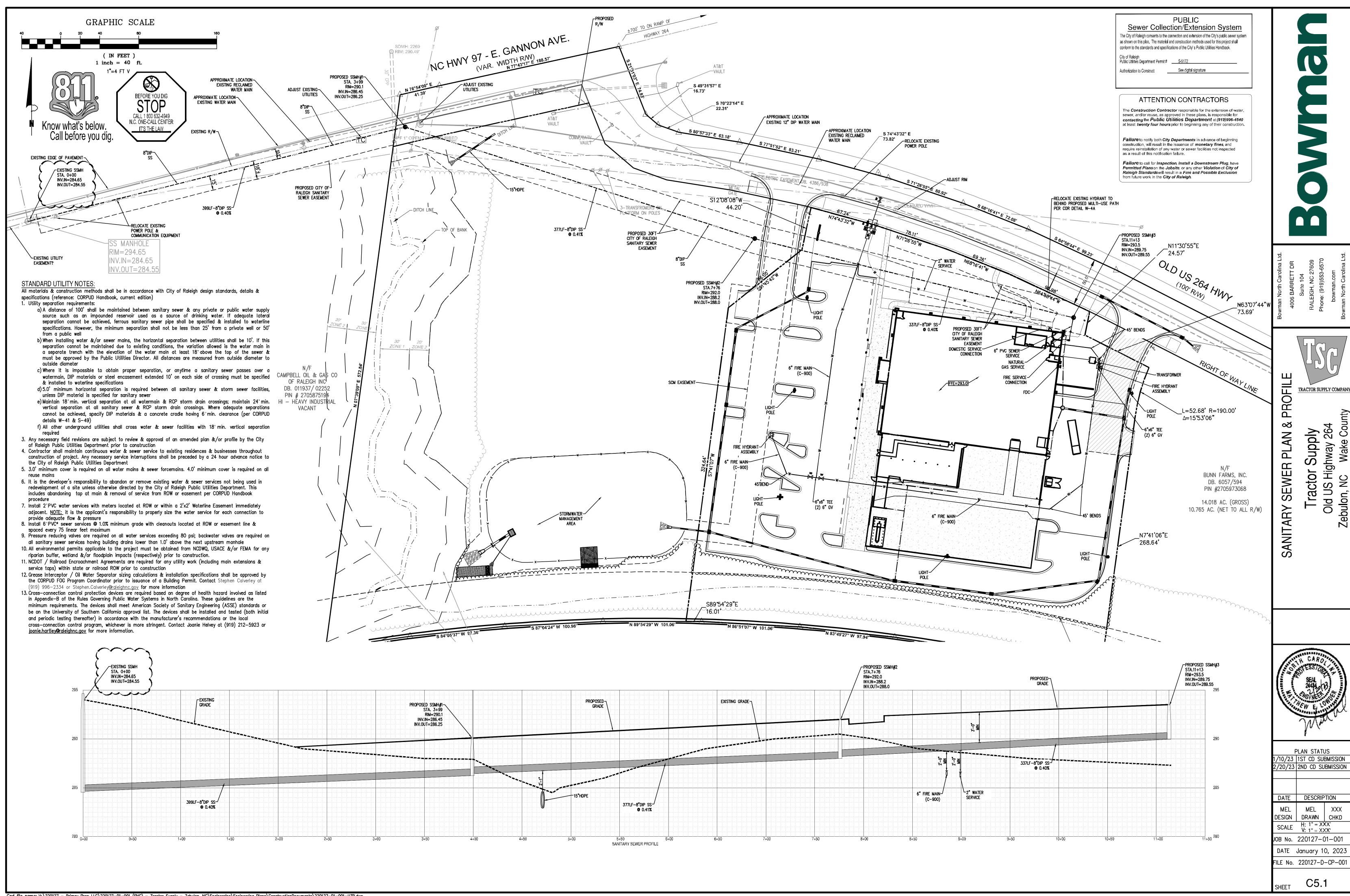
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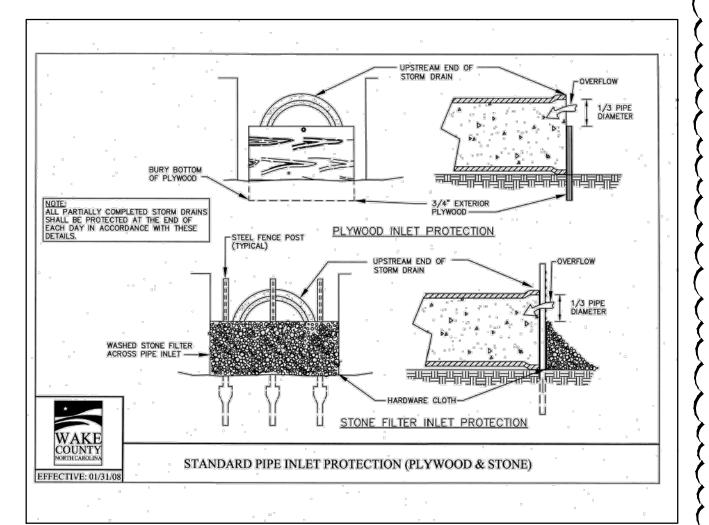
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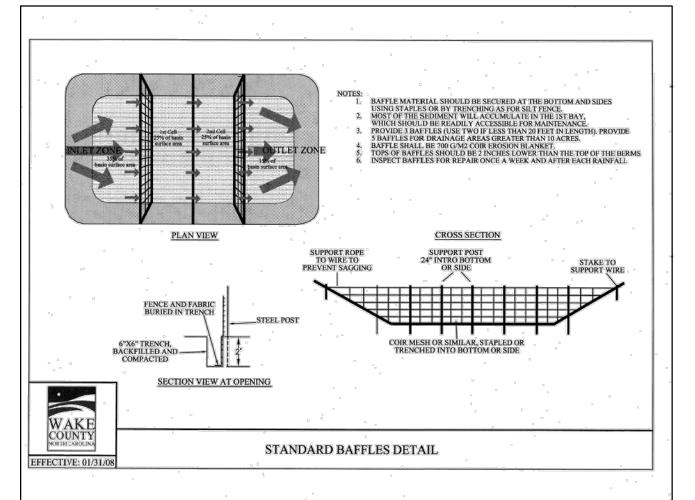
TRACTOR SUPPLY COMPAN

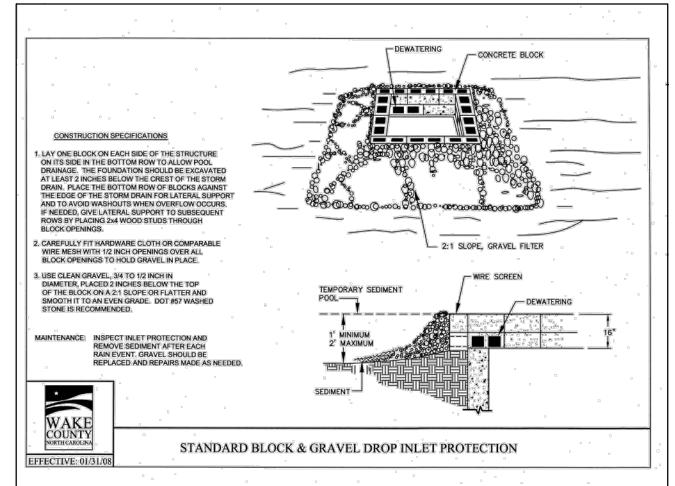
upply way 26² Tractor Old US Hig bulon, NC **ROADW**

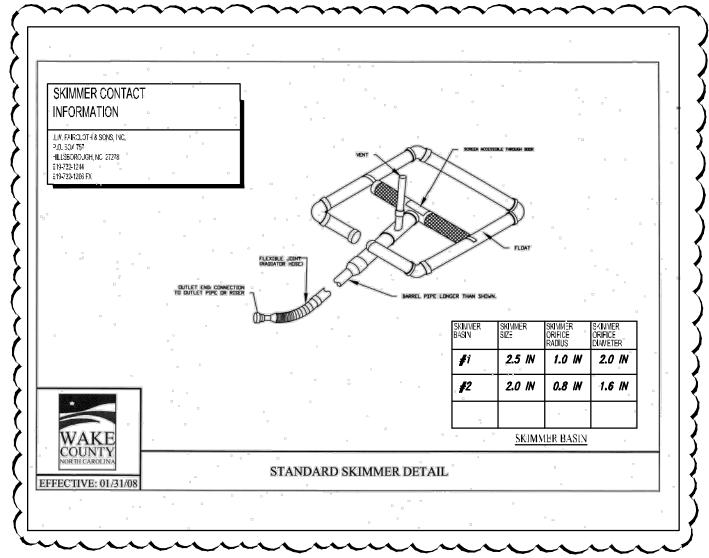








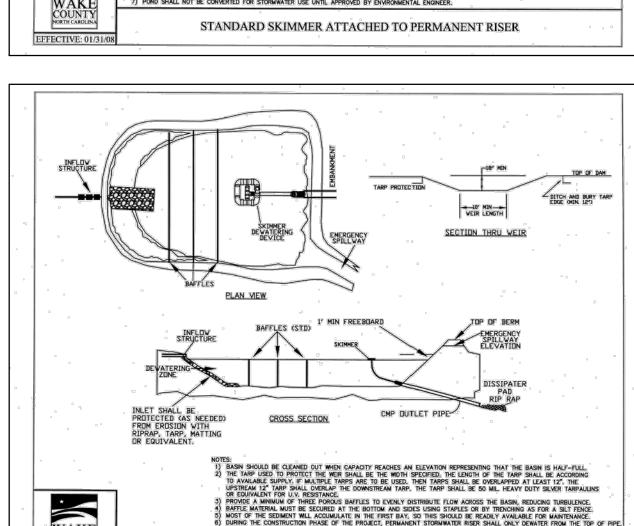


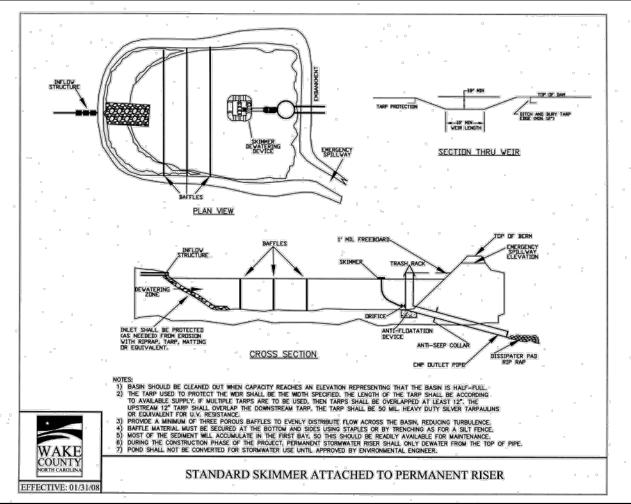


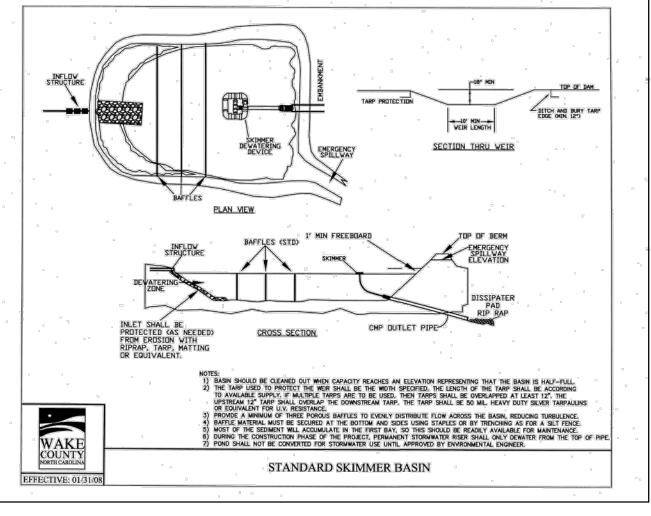
PLAN VIEW

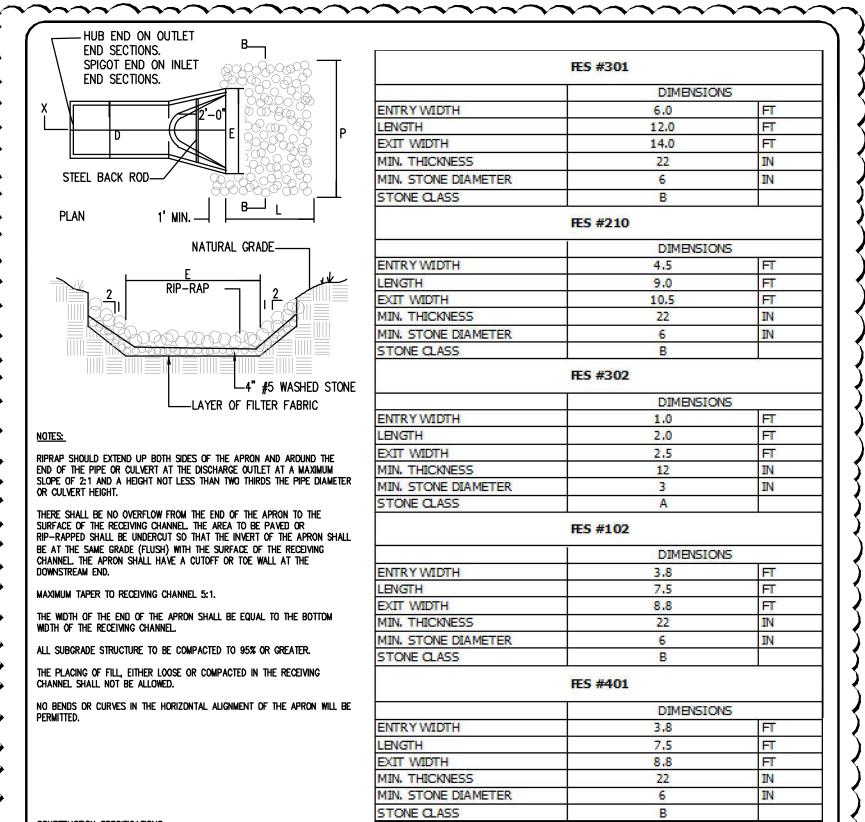
STANDARD GRAVEL BAG CURB INLET PROTECTION

1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH \$\frac{1}{2}\] INCH (OR SMALLER) GRAVEL BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, NEVER BLOCK THE CURB INLET.









CONSTRUCTION SPECIFICATIONS:

SUBGRADE PREPARATION—PREPARE THE SUBGRADE FOR RIPRAP AND FILTER TO THE REQUIRED LINES AND GRADES SHOWN ON THE PLANS. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY APPROXIMATING THAT OF THE SURROUNDING UNDISTURBED MATERIAL OR OVERFILL DEPRESSIONS WITH RIPRAP, REMOVE BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL. CUT THE SUBGRADE SUFFICIENTLY DEEP THAT THE FINISHED GRADE OF THE RIPRAP WILL BE AT THE ELEVATION OF THE SURROUNDING AREA. CHANNELS SHOULD BE EXCAVATED SUFFICIENTLY TO ALLOW PLACEMENT OF THE RIPRAP IN A MANNER SUCH THAT THE FINISHED INSIDE DIMENSIONS AND GRADE OF THE RIPRAP MEET DESIGN SPECIFICATIONS. SYNTHETIC FILTER FABRIC-PLACE THE CLOTH FILTER DIRECTLY ON THE PREPARED FOUNDATION. OVERLAP THE EDGES BY AT LEAST 12 INCHES, AND SPACE ANCHOR PINS EVERY 3 FT ALONG THE OVERLAP. BURY THE UPSTREAM END OF THE CLOTH A MINIMUM OF 12 INCHES BELOW GROUND AND WHERE NECESSARY, BURY THE LOWER END OF THE CLOTH OR OVER LAP WITH THE NEXT SECTION AS REQUIRED. SEE FIGURE 6.14A PAGE 6.14.6. TAKE CARE NOT TO DAMAGE THE CLOTH WHEN PLACING RIPRAP. IF DAMAGE OCCURS REMOVE THE RIPRAP, AND REPAIR THE

WITH A MINIMUM OVERLAP OF 12 INCHES AROUND THE DAMAGED AREA. IF EXTENSIVE DAMAGE IS SUSPECTED, REMOVE AND REPLACE THE ENTIRE SHEET.

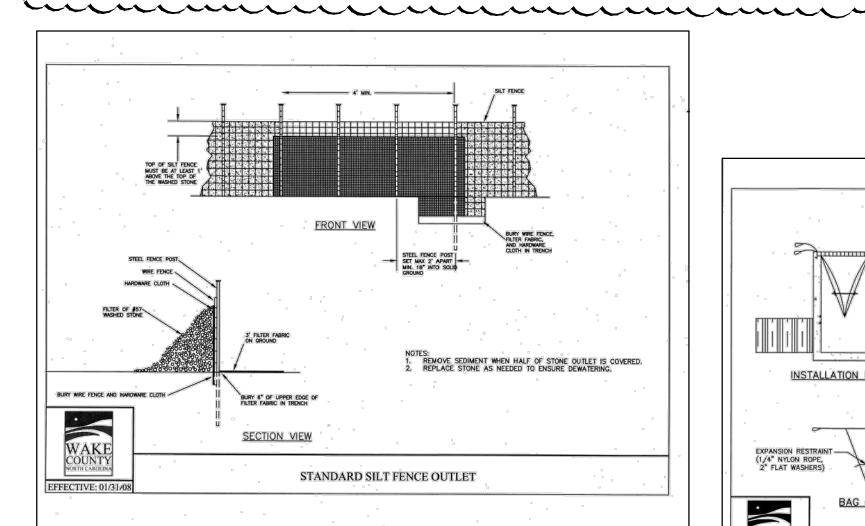
WHERE LARGE STONES ARE USED OR MACHINE PLACEMENT IS DIFFICULT, A 4-INCH LAYER OF FINE GRAVEL OR SAND MAY BE NEEDED TO PROTECT THE FILTER CLOTH.

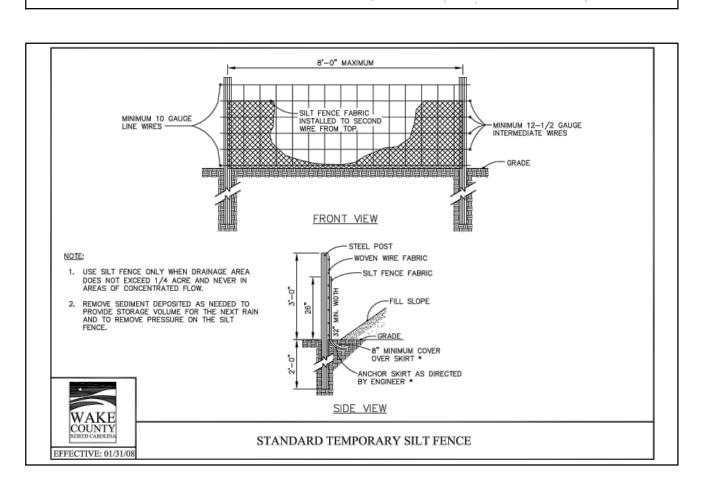
STONE PLACEMENT—PLACEMENT OF RIPRAP SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER. PLACE RIPRAP SO THAT IT FORMS A DENSE, WELL—GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF STONES THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY, AND CONTROLLED DUMPING DURING FINAL PLACEMENT. PLACE RIPRAP TO ITS FULL THICKNESS IN ONE OPERATION. DO NOT PLACE RIPRAP BY DUMPING THROUGH CHUTES OR OTHER METHODS THAT CAUSE SEGREGATION OF STONE SIZES. TAKE CARE NOT TO DISLODGE THE UNDERLYING BASE OR FILTER WHEN PLACING THE STONES. THE TOE OF THE RIPRAP SLOPE SHOULD BE KEYED TO A STABLE FOUNDATION AT ITS BASE AS SHOWN IN FIGURE 6.15B. THE TOE SHOULD BE EXCAVATED TO A DEPTH ABOUT 1.5 TIMES THE DESIGN THICKNESS OF THE RIPRAP, AND SHOULD EXTEND HORIZONTALLY FROM THE SLOPE.

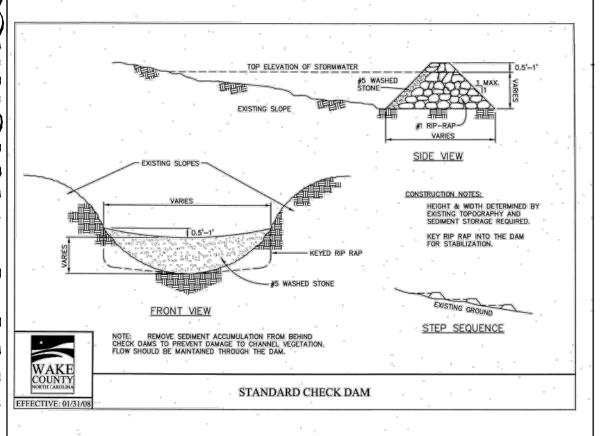
THE FINISHED SLOPE SHOULD BE FREE OF POCKETS OF SMALL STONE OR CLUSTERS OF LARGE HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF STONE SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE. THE FINISHED GRADE OF THE RIPRAP SHOULD BLEND WITH THE SURROUNDING AREA. NO OVERFALL OR PROTRUSION OF RIPRAP SHOULD BE APPARENT

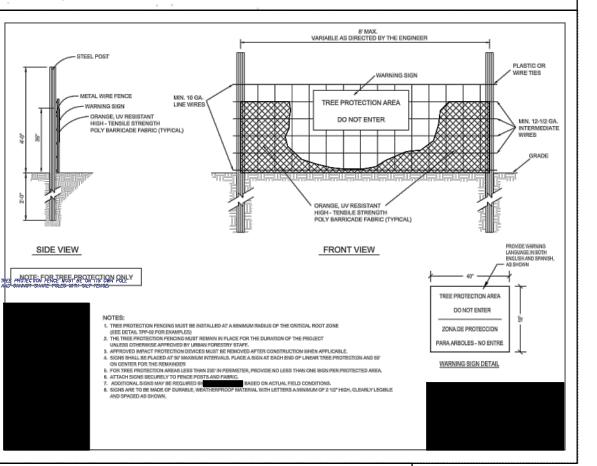
RIP-RAP APRON NOT TO SCALE

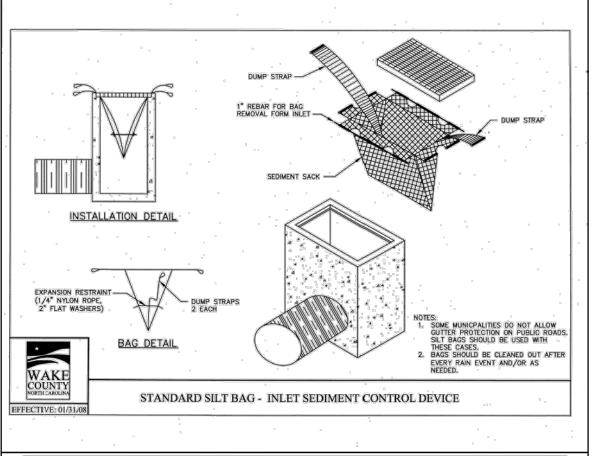
IN GENERAL, ONCE A RIPRAP INSTALLATION HAS BEEN PROPERLY DESIGNED AND INSTALLED IT REQUIRES VERY LITTLE MAINTENANCE. RIPRAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH IN SOME LOCATIONS.

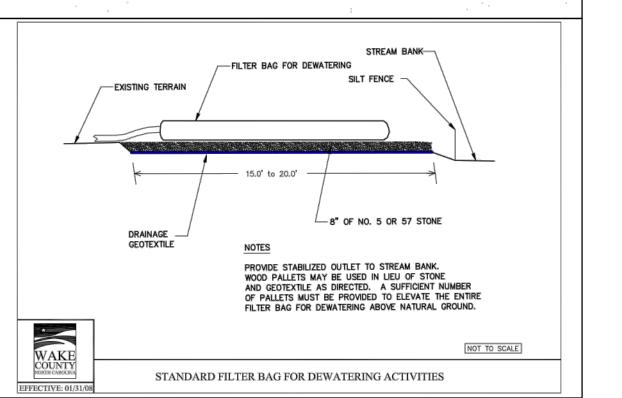








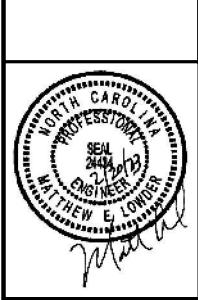






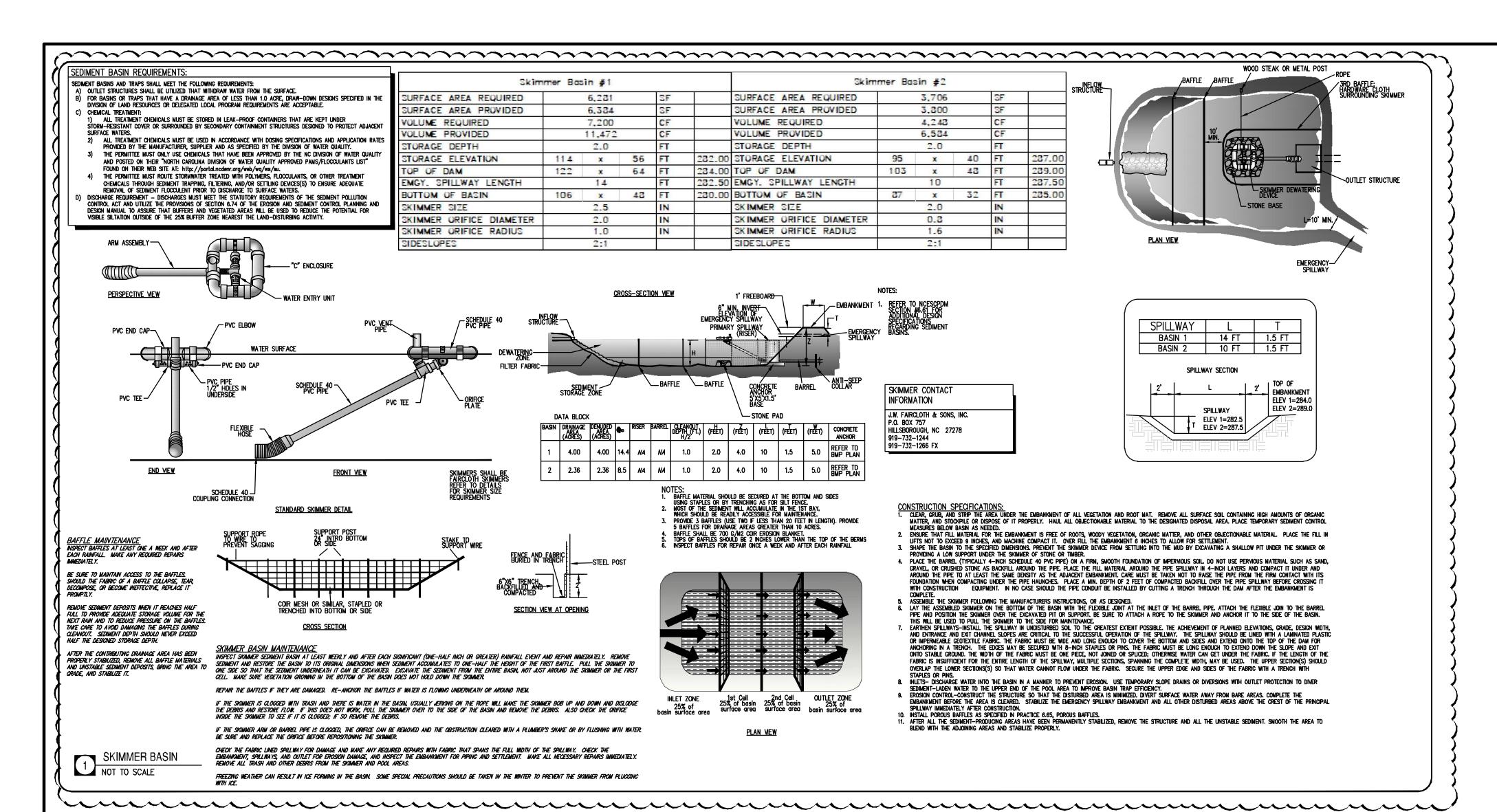
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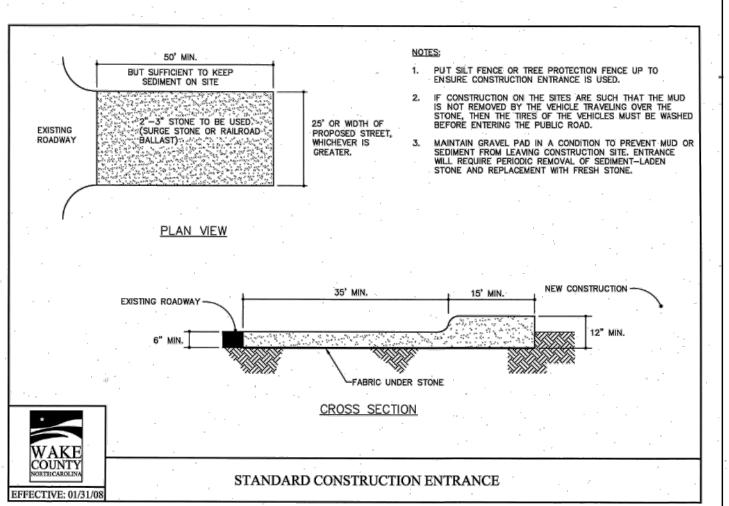
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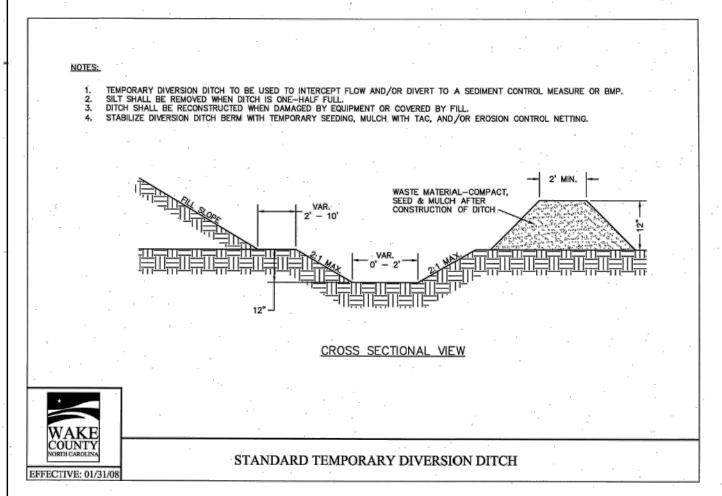


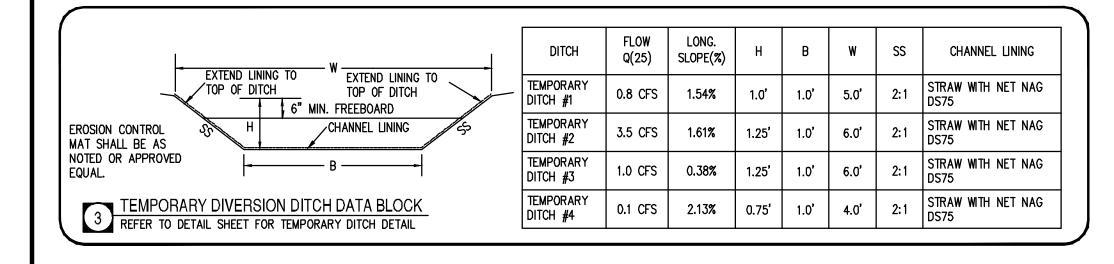
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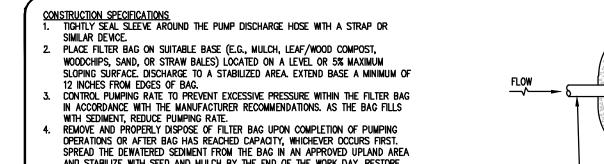
SECTION VIEW







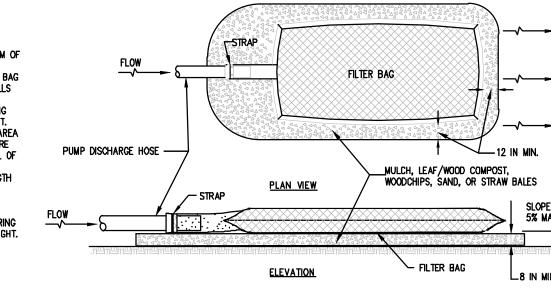


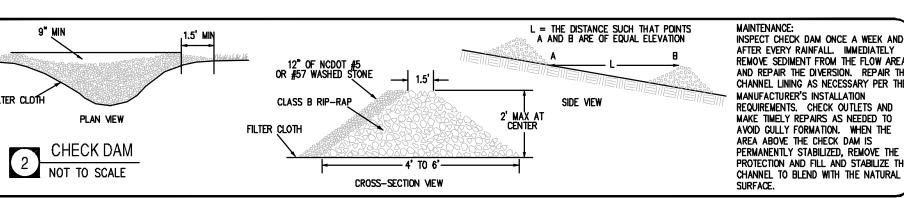


AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP

DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.







<u>Date</u>	Туре	Planting Rate
March – Oct.	Browntop Millet	40 lbs/acre
Nov. – Feb.	Winter Rye	120 lbs/acre
PERMANENT S	EEDING SPECIFICATIONS/SCHEDULE	
FOR SHOULDERS,	SIDE DITCHES, SLOPES (MAX 3:1)	
Date	Type	Planting Rate
Aug 15 - Nov 1	Deer Tongue	300 lbs/acre
Nov 1 — Mar 1	Deer Tongue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15		300 lbs/acre
	Hulled Common Bermuda Grass	25 lbs/acre
Jul 1 - Aug 15	Deer Tongue & Browntop Millet	240 lbs/acre-Deer Tongue;
Jul 1 — Aug 15	Deer Tongue & Browntop Millet or Sorghum—Sudan Hybrids	240 lbs/acre—Deer Tongue; 35 lbs/acre Browntop Millet
Jul 1 — Aug 15		
·	or Sorghum-Sudan Hybrids	35 lbs/acre Browntop Millet
FOR SHOULDERS, Date	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type	35 lbs/acre Browntop Millet
FOR SHOULDERS,	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass &	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids
FOR SHOULDERS, Date Mar 1 – Jun 1	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations:	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum—Sudan Hybrids Planting Rate
FOR SHOULDERS, Date Mar 1 – Jun 1	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations: Add Deer Tongue	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum—Sudan Hybrids Planting Rate 50 lbs/acre (Switchgrass)
FOR SHOULDERS, Date Mar 1 – Jun 1 Mar 1 – Apr 15 Mar 1 – Jun 30	or Sorghum—Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations: Add Deer Tongue Or add Julled Common Bermuda Grass	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids Planting Rate 50 lbs/acre (Switchgrass) 240 lbs/acre 25 lbs/acre
FOR SHOULDERS, Date Mar 1 – Jun 1 Mar 1 – Apr 15	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations: Add Deer Tongue Or add Julled Common Bermuda Grass Deer Tongue & Browntop Millet	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids Planting Rate 50 lbs/acre (Switchgrass) 240 lbs/acre 25 lbs/acre 240 lbs/acre Deer Tongue
FOR SHOULDERS, Date Mar 1 – Jun 1 Mar 1 – Apr 15 Mar 1 – Jun 30	or Sorghum—Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations: Add Deer Tongue Or add Julled Common Bermuda Grass	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids Planting Rate 50 lbs/acre (Switchgrass) 240 lbs/acre 25 lbs/acre 240 lbs/acre Deer Tongue 35 lbs/acre Browntop Millet
FOR SHOULDERS, Date Mar 1 – Jun 1 Mar 1 – Apr 15 Mar 1 – Jun 30 Jun 1 – Sep 1	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations: Add Deer Tongue Or add Julled Common Bermuda Grass Deer Tongue & Browntop Millet or Sorghum-Sudan Hybrids	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids Planting Rate 50 lbs/acre (Switchgrass) 240 lbs/acre 25 lbs/acre 240 lbs/acre Deer Tongue 35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids
FOR SHOULDERS, Date Mar 1 – Jun 1 Mar 1 – Apr 15 Mar 1 – Jun 30	or Sorghum-Sudan Hybrids SIDE DITCHES, SLOPES (3:1 - 2:1) Type Switchgrass & use the following combinations: Add Deer Tongue Or add Julled Common Bermuda Grass Deer Tongue & Browntop Millet or Sorghum-Sudan Hybrids	35 lbs/acre Browntop Millet 30 lbs/acre Sorghum-Sudan Hybrids Planting Rate 50 lbs/acre (Switchgrass) 240 lbs/acre 25 lbs/acre 240 lbs/acre Deer Tongue 35 lbs/acre Browntop Millet

CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE. *** TEMPORARY: RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.

TEMPORARY SEEDING NOT TO SCALE

Anchor

- SEEDBED PREPARATION: 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- 2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- 3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- 4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH
- SOIL (SEE SEEDING MIXTURE). 5. CONTINUE TILLAGE UNITL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS
- PREPARED FOUR TO SIX INCHES DEEP. 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING
- EQUIPMENT OR CULTIPACK AFTER SEEDING. 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE
- PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

<u> Seeding Mixture:</u> AGRICULTURE LIMESTONE: FERTILIZER: SUPERPHOSPHATE MULCH:

2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS) 1.000 LBS/ACRE - 10-10-10 500 LBS/ACRE - 20% ANALYSIS 2 TONS/ACRE - SMALL GRAIN STRAW ASPHALT EMULSION AT 400 GALS/ACRE

CONSULT S&EC ENGINEER FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE. *** TEMPORARY: RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.

8. Inspect all seeded areas and make necessary repairs or reseedings within the Seeding Specifications planting season, if possible. If stand should be more than 60% damaged, reestablish following the original lime, fertilizer and seeding rates. 9. Consult Wake County Soil & Water or NC State Cooperative Extension on

Asphalt emulsion at 400 gals/acre

maintenance treatment and fertilization after permanent cover is established. 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

Seeding Schedule For Shoulders, Side Ditches, Slopes (Max 3:1): Date Type Planting Rate

Aug 15- Tall Fescue 300 lbs/acre Nov 1-Tall Fescue & Abruzzi Rye 300 lbs/acre Mar 1 Mar 1-Tall Fescue 300 lbs/acre Apr 15

Apr 15- Hulled Common 25 lbs/acre Jun 30 Bermudagrass Jul 1- Tall Fescue AND Browntop 125 lbs/acre (Tall Fescue); 35 Aug 15 Millet or Sorghum-Sudan lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids) Hvbrids**

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1 - 4/1/19)

NCDEQ/Division of Energy, Mineral and Land Resources

	quired Ground Stab	lization Timeframes
Site Area Description	Stabilize within the many calendar days after ceasing land disturbance	Timeframe variations
[a] Perimeter dikes, swares, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	28	None
(c) Sinpes steeper than 3:1	78	If slopes are 10' or less in length and a not steeper than 2.1, 14 days are allowed
[d] Slopes 312 to 412.	88	-7 days for Slopes greater than 50° in length and with slopes steeper than 4° -7 days for perimeter dikes, swales, district, perimeter slopes and HQW Zones -10 days for Falls Lake Wetershed
(e) Areas with slopes flatter than 4.1	356	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zo -50 days for Falls Lake Watershed unle there is zero slope.
ground stepisization shall be		
schility. Temporary ground surface stable against accel secound STABILIZATION 5	orger than 30 calend a stabilization shall be leasted erosion until PECIFICATION entity so that rain will be.	anent ground statistation as soon as not days after the last and disturbing e maintained in a manner to render the permanent ground stabilization is achie not dislodge the soil. Use one of the fermanent stabilization

Seedbed Preparation:

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse
- Rip the entire area to six inches deep. 3. Remove all loose rock, roots and other obstructions, leaving surface
- reasonably smooth and uniform.
- 4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below).
- 5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
- 6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding. 7. Mulch immediately after seeding and anchor mulch.



TRACTOR SUPPLY COMPA

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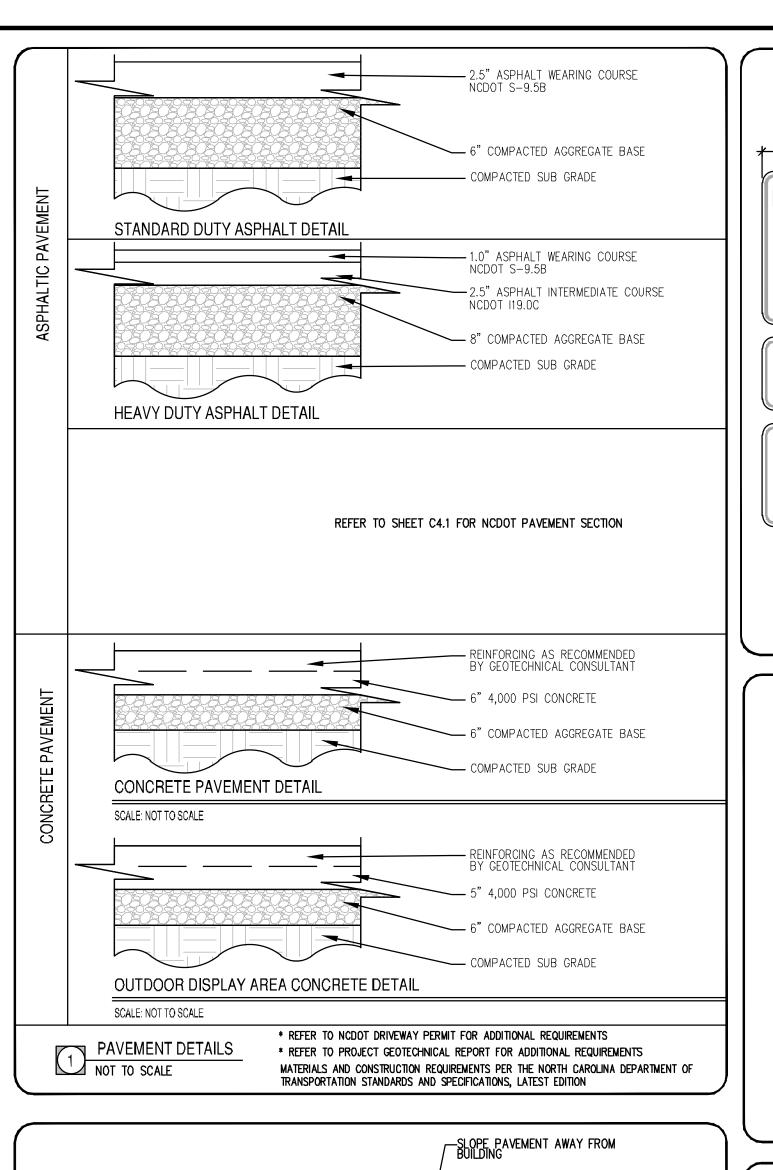
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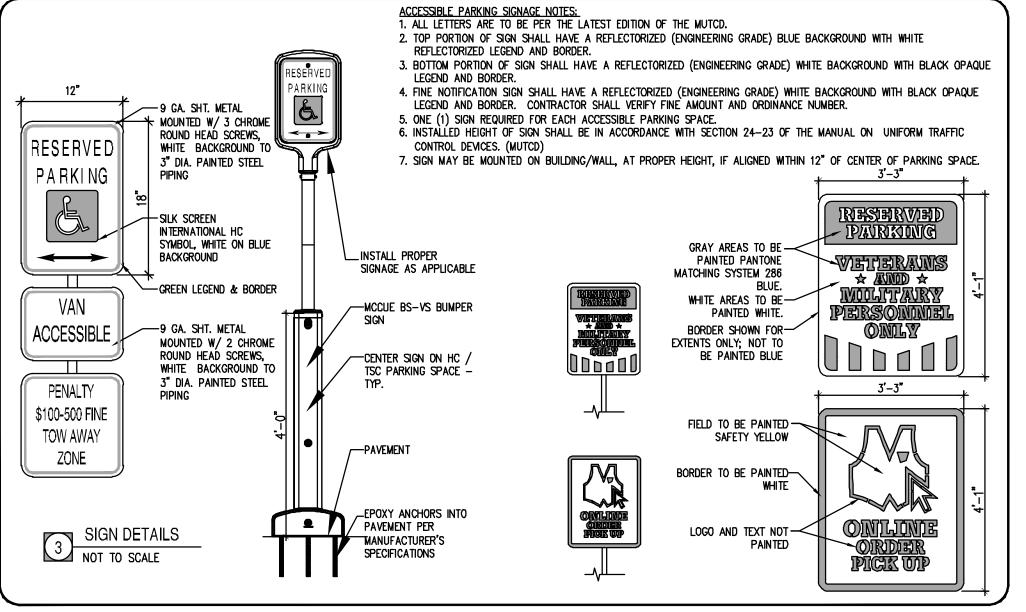
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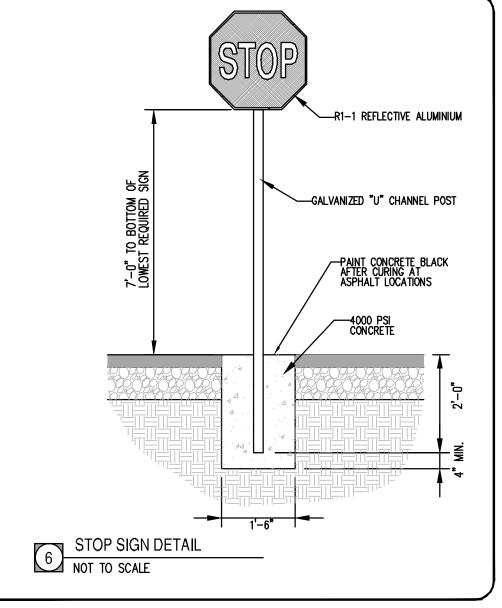
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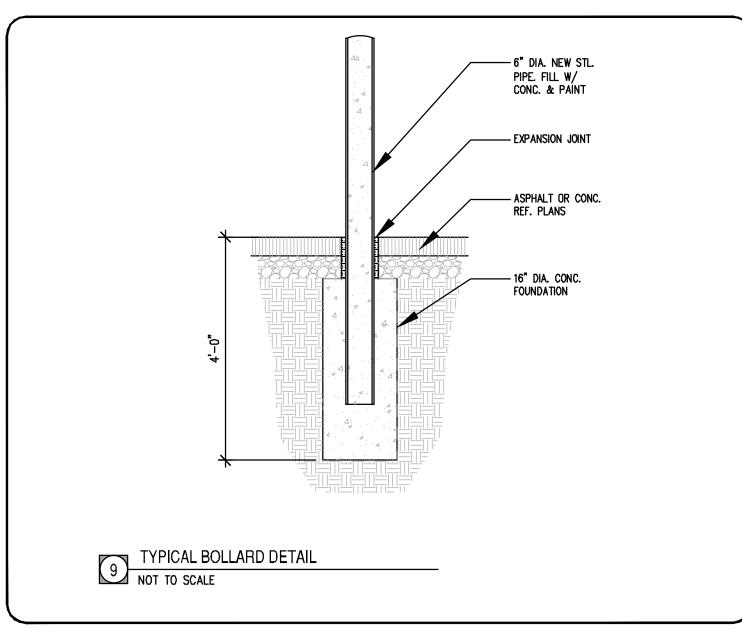
PLAN STATUS									
1/10/23 1ST CD SUBMISSION									
2/20/23 2ND CD SUBMISSION									
DATE	DECODIO	TION							
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DESIGN	DRAWN	CHKD							
SCALE	H: N/A V: N/A								
JOB No.	220127-0	01-001							
DATE	DATE January 10, 2023								
FILE No.	FILE No. 220127-D-CP-001								
SHEET	C6.	1							

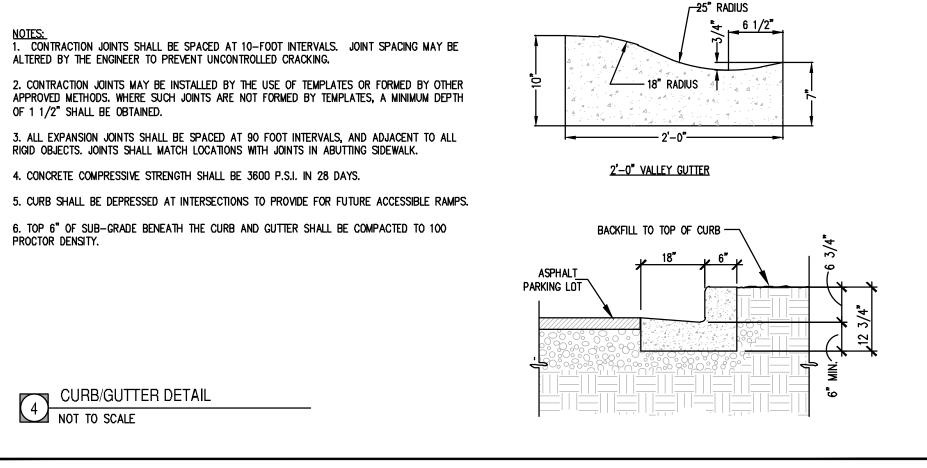
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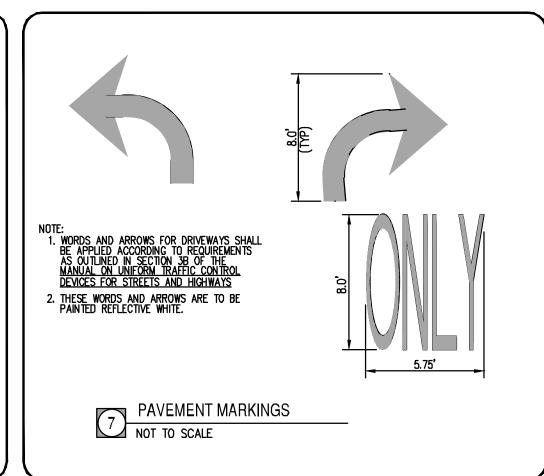


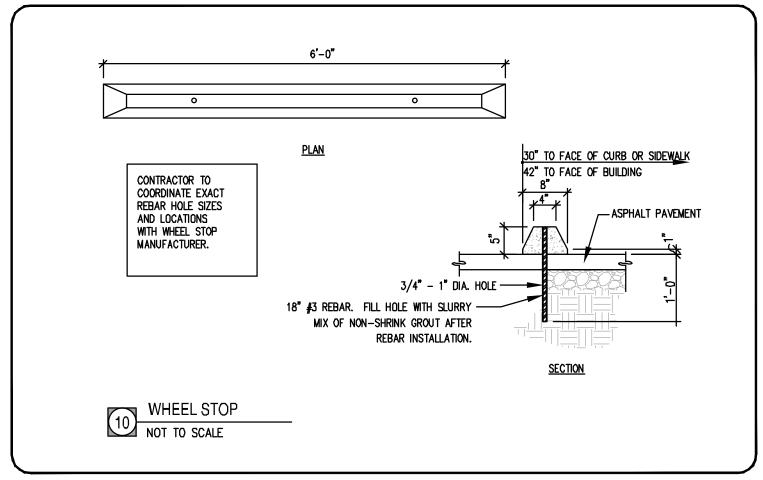


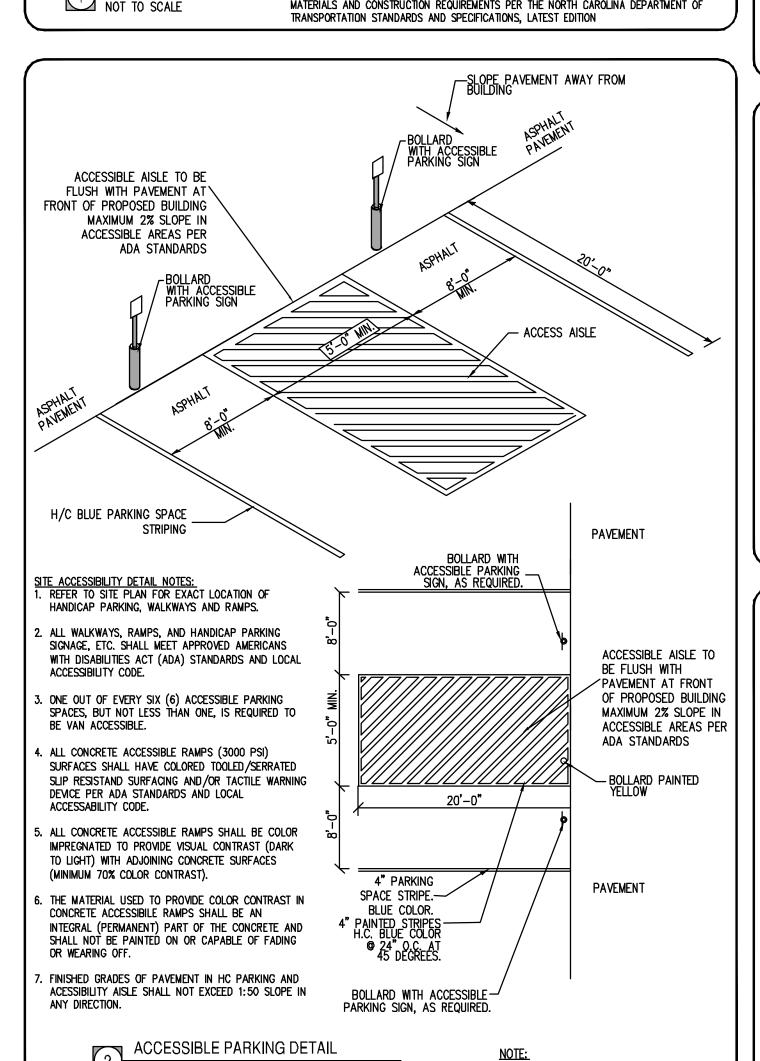


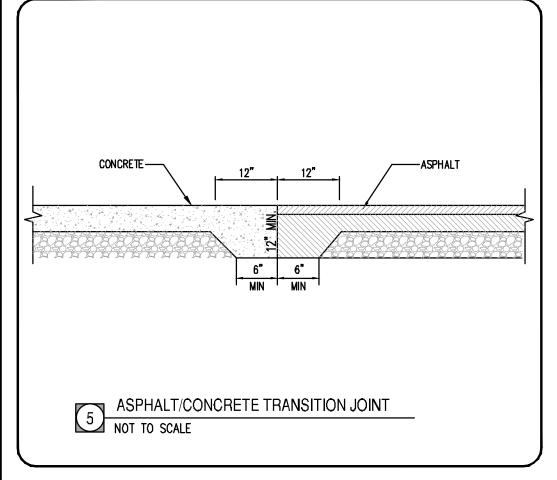


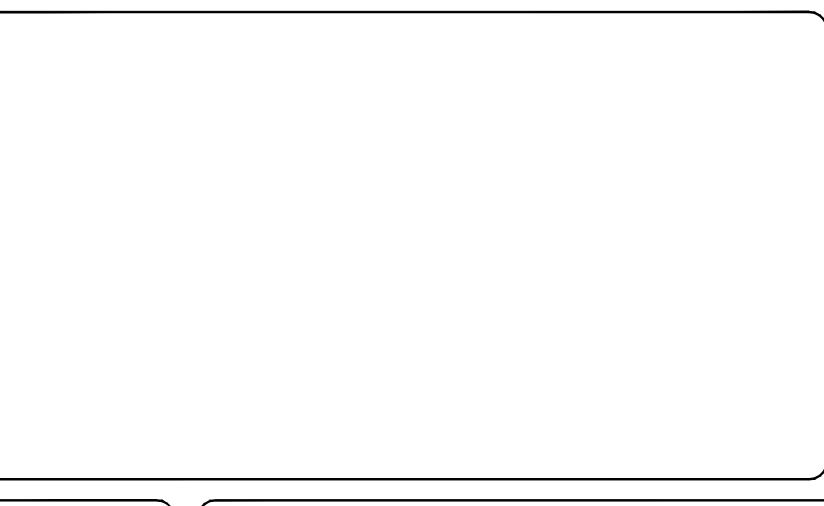


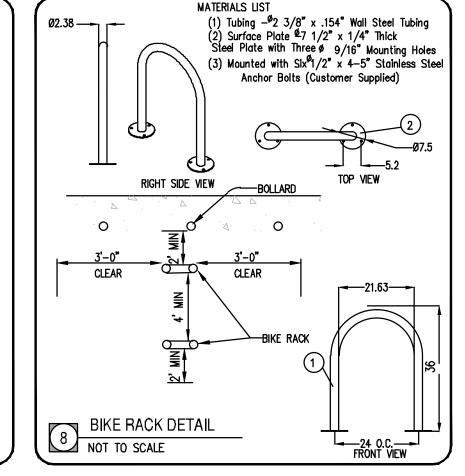


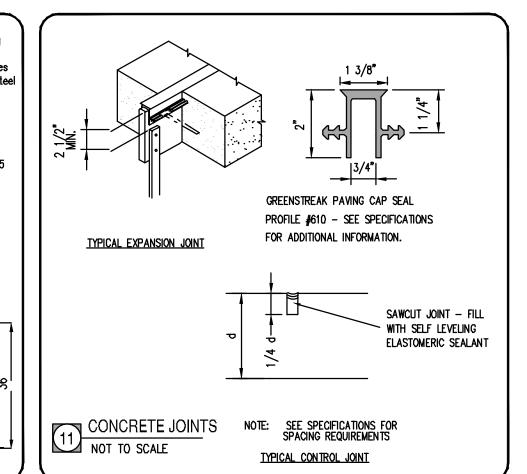


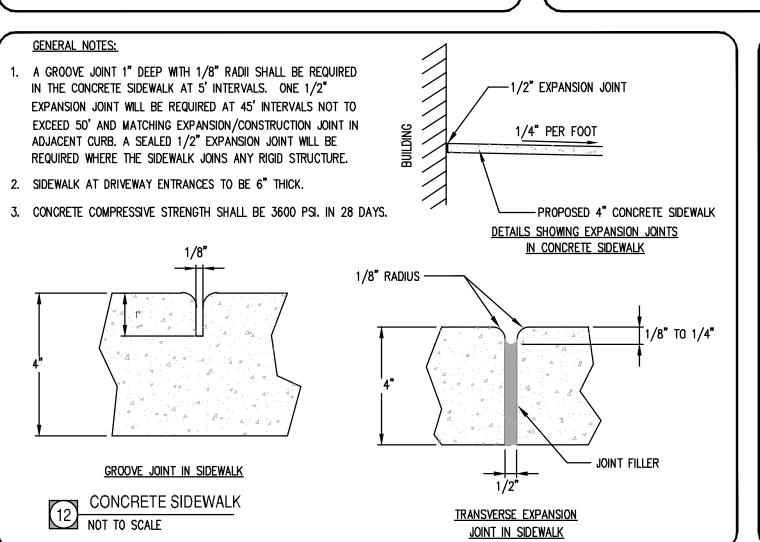


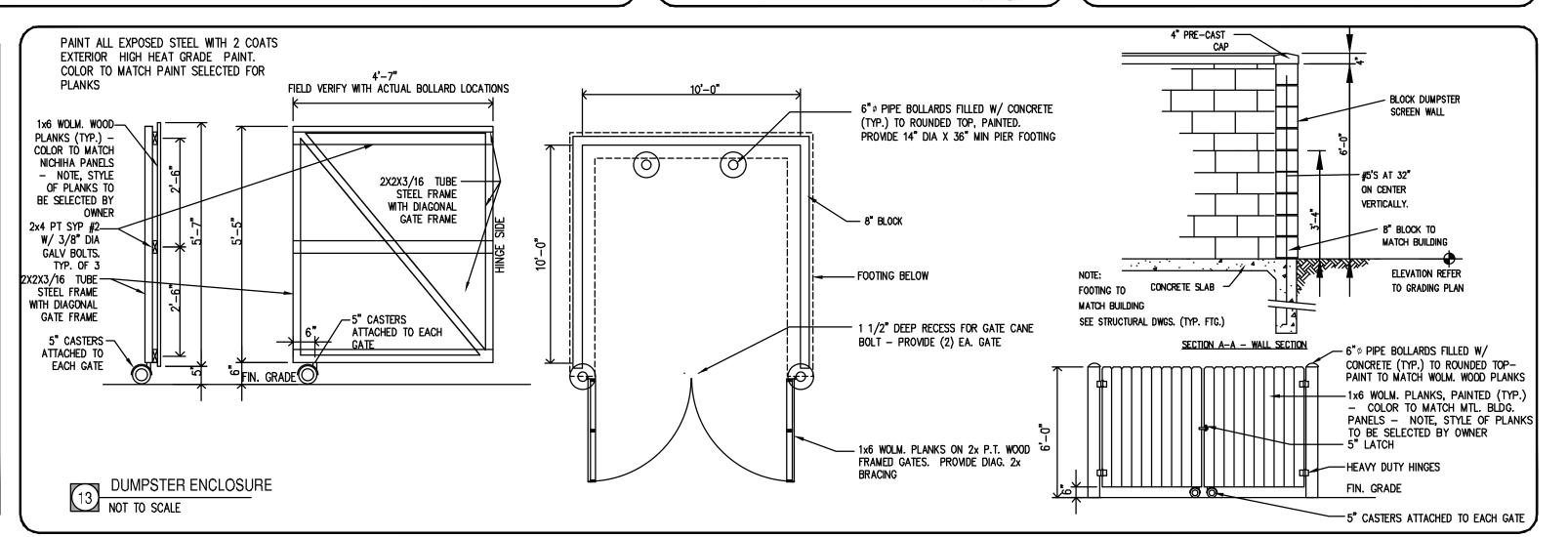














Sulfe 104
RALEIGH, NC 27609
Phone: (919)553-6570
bowman.com

TRACTOR SUPPLY COMPANY

CONSTRUCTION DETAIL:
Tractor Supply
Old US Highway 264
Zebulon, NC Wake County

CARO SEAL AB S

PLAN STATUS

1/10/23 IST CD SUBMISSION

2/20/23 2ND CD SUBMISSION

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H: NA
V: NA

JOB No. 220127-01-001

DATE January 10, 2023

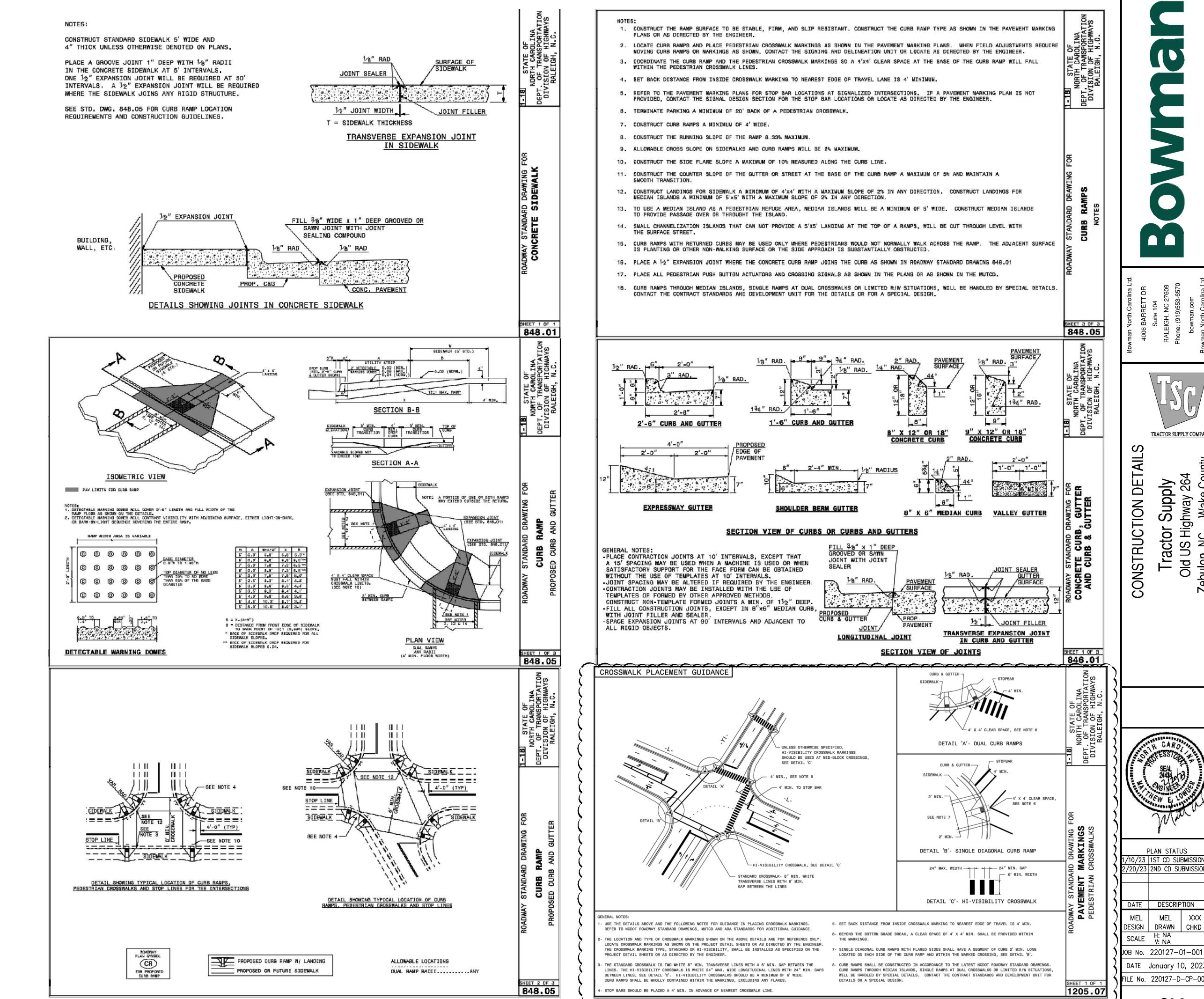
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SHALL MEET ALL CODES AND ADAAG

REGULATIONS.

NOT TO SCALE

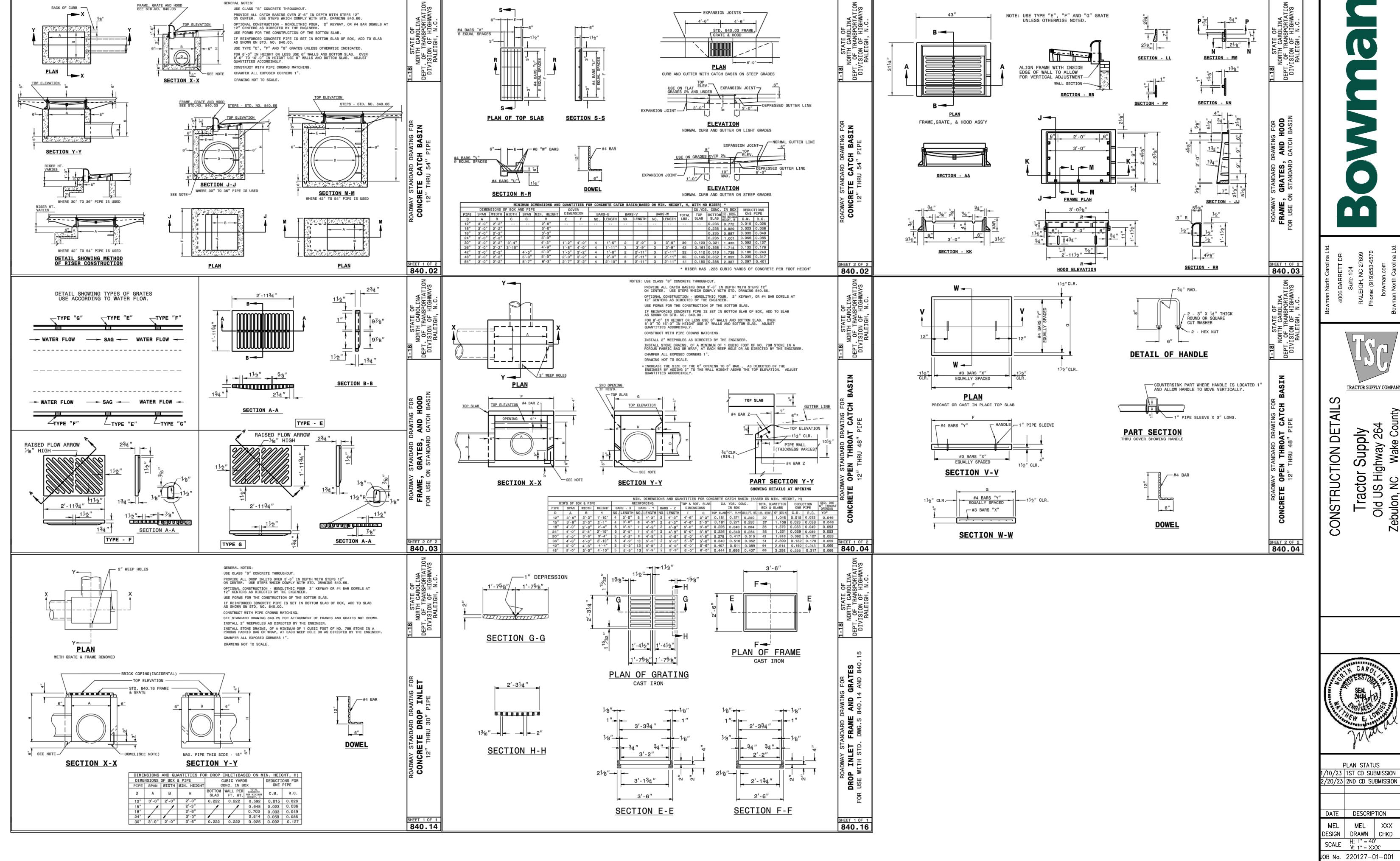


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TRACTOR SUPPLY COMPAN

10/23 |1ST CD SUBMISSION '20/23|2ND CD SUBMISSION

C6.3



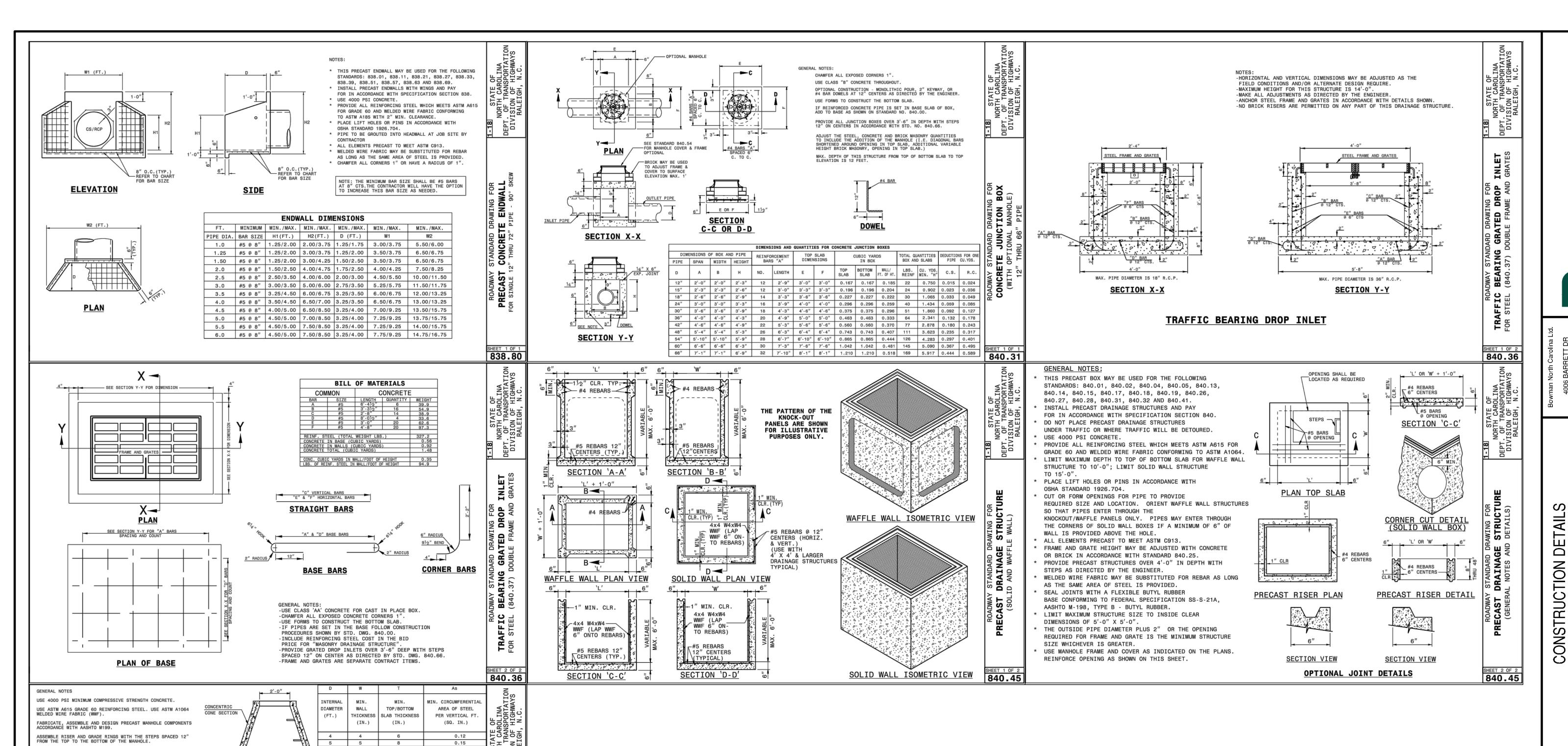
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TRACTOR SUPPLY COMPAN

/10/23 |1ST CD SUBMISSION 2/20/23 2ND CD SUBMISSION MEL XXX DESIGN DRAWN CHKD JOB No. 220127-01-001 DATE January 10, 2023 FILE No. 220127-D-CP-00

C6.4

SHEET





TRACTOR SUPPLY COMPAN

Supply 3hway 264

Tractor Old US Hig

PLAN STATUS /10/23 |1ST CD SUBMISSION /20/23|2ND CD SUBMISSION DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE $V: \underline{1'' = XXX'}$ H: 1" = 40' JOB No. 220127-01-001 DATE January 10, 2023 FILE No. 220127-D-CP-00

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SHEET

Cad file name: V:\220127 - Primax Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-GRP.dwg

ALTERNATE CONE SECTION

₩4 REBAR

SLAB OF #4'S @ 8" CTS.

MANHOLE OPTION

ADDITIONAL #4 EACH CLEAR OF BOTTOM FACE)

1" MIN. \

FLAT TOP SLAB

ECCENTRIC CONE -

USE MIN. AREA OF STEEL
IN BASE SLAB OF
0.12 in² PER LINEAR
FOOT EACH WAY

TYPICAL MANHOLE SECTION

LOCATE WALL REINFORCEMENT — IN MIDDLE THIRD OF WALL

SEE STD. 840.54

RING AND COVER

0.18

(CIRCUMFERENTIAL REINFORCEMENT)

REINFORCEMENT

⁸ **5,** 68

SHEET 1 OF 1

840.52

WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9" ABOVE THE GROUND AT OTHER LOCATIONS.

LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF

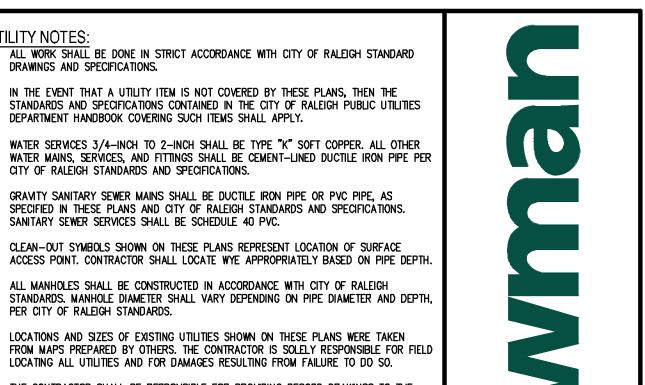
* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.

ADDITIONAL #4 EACH SIDE OF OPENING (1" CLEAR OF BOTTOM FACE PLACE BARS DIAGONAL

TO CORNERS (TYP.)

GRATED INLET OPTION



THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION. THE ENGINEER WILL PROVIDE THESE RECORD

PRIOR TO STRUCTURAL CONSTRUCTION. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.

DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.

ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING limits as shown on plan and shall be provided with a temporary plug at end.

14. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.

15. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.

16. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF Proposed utilities. 17. CONTRACTOR SHALL NOTIFY THE WATER AUTHORITY INSPECTORS 72 HOURS BEFORE

CONNECTING TO ANY EXISTING LINE.

18. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 24" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).

19. PRESSURE REDUCING VALVES WILL BE REQUIRED ON THE DOMESTIC WATER MAINS IF THE STATIC PRESSURE AT THE BUILDING EXCEEDS 80PSI.

20. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHÀNICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 24" CLEARANCE. MEETING REQUIREMENTS OF

21. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.

22. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF RALEIGH WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.

ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES OR UTILITIES BY OTHERS AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS

SHOWN ON THE PLANS. ALL CONSTRUCTION METHODS & MATERIALS SHALL CONFORM WITH THE CURRENT SPECIFICATIONS AND STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA). THE AWWA CONSTRUCTION STANDARDS ARE SET FORTH IN THEIR CONSTRUCTION SPECIFICATIONS AND STANDARD FOR WATER AND SANITARY SEWERAGE FACILITIES, A COPY OF WHICH MUST BE PURCHASED FROM THE AWWA BY THE CONTRACTOR AND KEPT AT THE JOB SITE AT ALL TIMES. REFERENCE TO NCDOT SHALL MEAN THE CURRENT STANDARDS AND/OR SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF

25. THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE BELOW PLAN GRADE ANY MATERIALS WHICH ARE UNSUITABLE FOR FOUNDATIONS, SUB GRADES, PIPE TRENCH BOTTOMS OR OTHER PURPOSES AND BACKFILL THESE AREAS WITH AN APPROVED MATERIAL. THE EXTENT OF UNDERCUTTING AND BACKFILLING SHALL BE DETERMINED BY THE CITY OF RALEIGH AS TO AREAS WITHIN STREET RIGHT-OF-WAY AND THE ENGINEER IN OTHER AREAS. COMPENSATION SHALL BE AS SET FORTH IN THE CONTRACT

DOCUMENTS. 26. A MINIMUM VERTICAL SEPARATION OF 24" SHALL BE MAINTAINED BETWEEN SANITARY SEWER & WATER LINES AND A FULL JOINT OF WATER LINE PIPE SHALL BE CENTERED WHERE WATER LINE CROSSES OVER SANITARY SEWER. WHERE CLEARANCE IS LESS THAN 18" BUT GREATER THAN 12". SANITARY SEWER SHALL BE PRESSURE TESTED DUCTILE IRON PIPE 10' FROM WATER-MAIN. WHEN WATER LINE CROSSES UNDER SANITARY SEWER, 18" MINIMUM CLEARANCE MUST BE MAINTAINED, AND SANITARY SEWER

27. ALL WATERLINES SHALL HAVE BURIED WITH THE PIPE # 12 COATED ELECTRIC WIRE AND BROUGHT UP INTO THE METER BOXES.

SHALL BE PRESSURE TESTED DUCTILE IRON PIPE 10' FROM WATER-MAIN.

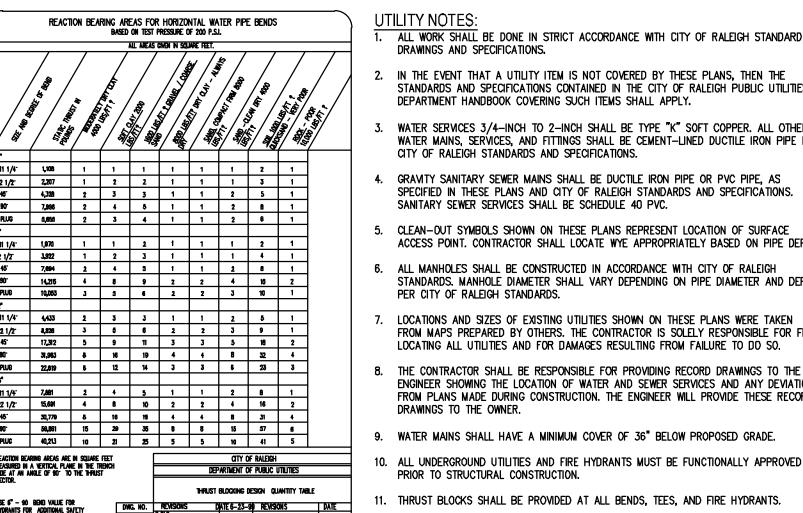
Public Utilities Department Permit # S-5172

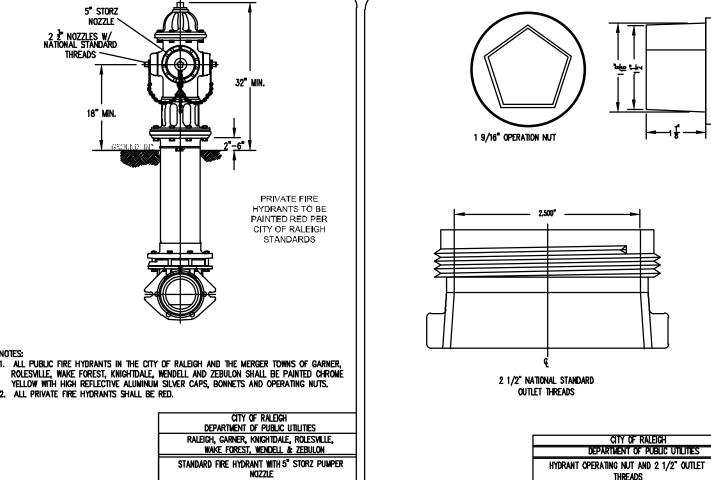
from future work in the City of Raleigh.

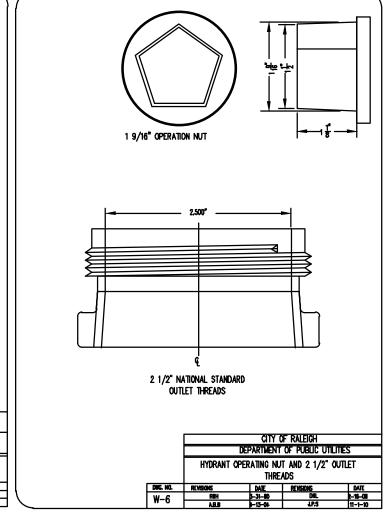
28. THE CONTRACTOR SHALL PROVIDE A SURVEY AS-BUILT RECORD DRAWING OF THE SANITARY SEWER SYSTEM AND THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF RALEIGH UTILITY DEPARTMENT.

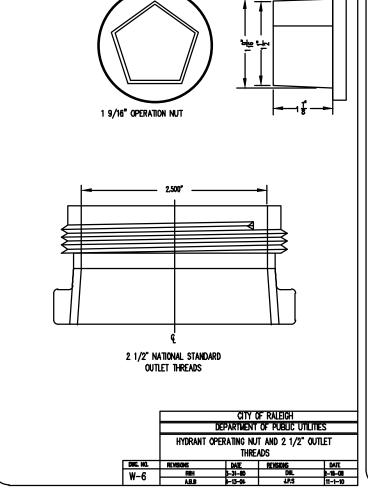
Failure to call for Inspection, Install a Downstream Plug, have Permitted Planson the Jobsite, or any other Violation of City of

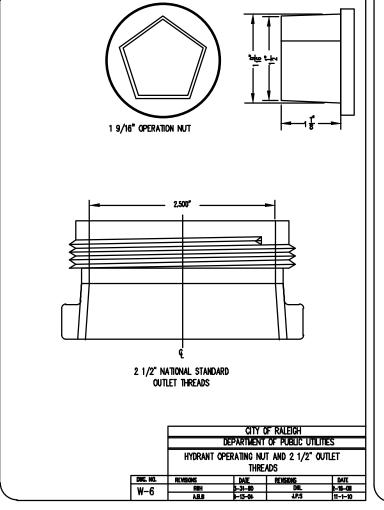
Raleigh Standardswill result in a Fine and Possible Exclusion

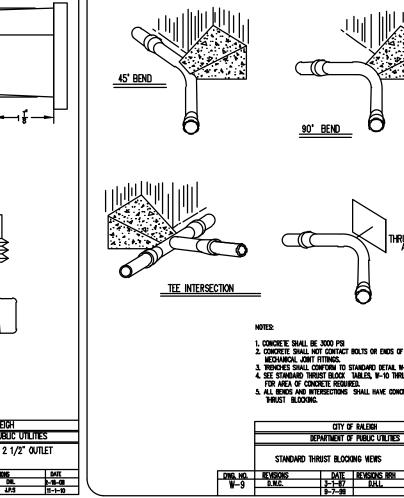




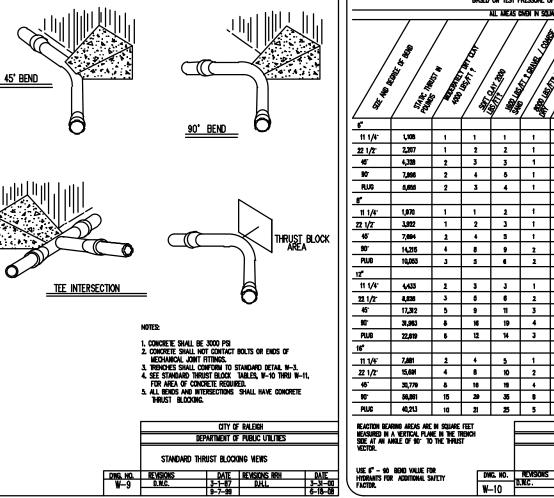


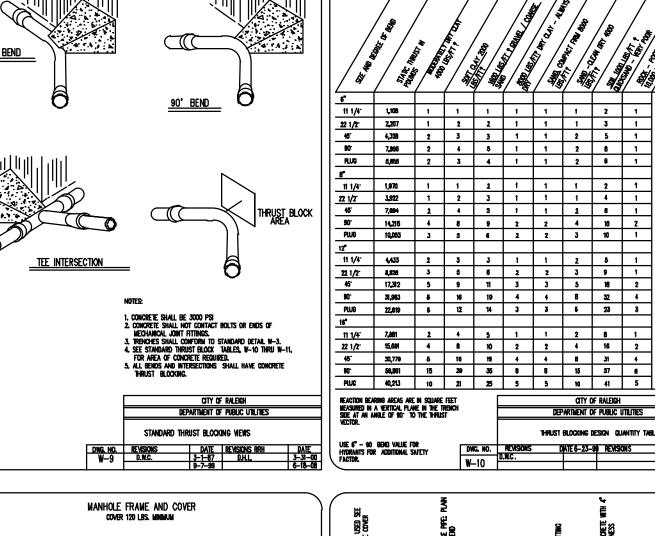


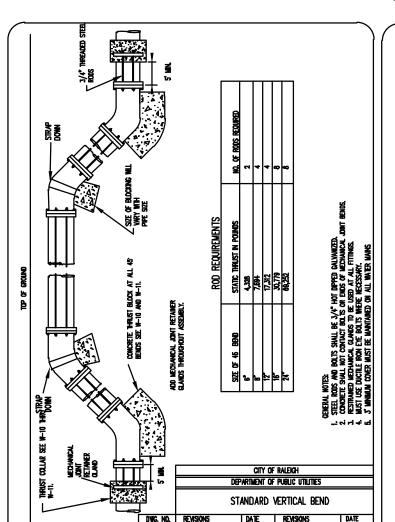




THRUST BLOCKING







1. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN

OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.

WITH AASHTO T-80 AS MODIFIED BY NCDOT.

ENCROACHMENT PERMIT.

APPROPRIATE SAW CUT MACHINE.

2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED. WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE

3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE

4. THE ENTIRE THICKNESS/ VERTICAL EDGE OF CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN

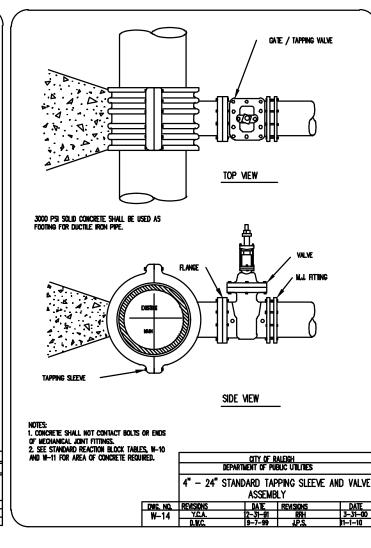
S. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THOK.

6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.

7. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING, W-3. FOR ADDITIONAL DETAILS.

8. NO HAND PATCHING ALLOWED.

9. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE FORDROWEDS FOR THE PATCH TO THE APPROVED ON SITE



6" O.D. OF PIPE 6"

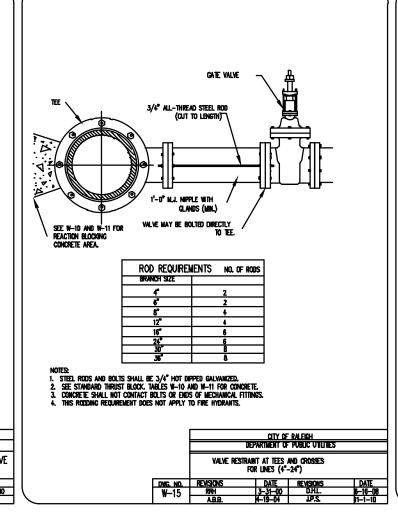
6" OF #67 STONE WHEN ROCK OF WATER IS ENCOUNTERED

4. BACKFILL SHALL BE TAMPED IN 6" LIFTS. 5. ACHIEVE 95% COMPACTION IN BACKFILL.

. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE

2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.

Taken from the inside face of the shoring and bracing.



MINIMUM 36" HORIZONTAL CLEARANCE FROM ANY OBJECT.

SIDEWALK 3'-6" CURB AND GUITER

1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUFLLER, AMERICAN DARLING, KENNEDY, M & H, WATEROUS, CLOW, EAST JORDAN RON WORKS, OR US PIPE.

department of public utilities

1'-3"x 1'-3"x 4" THICK

BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96.

4. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSTION.

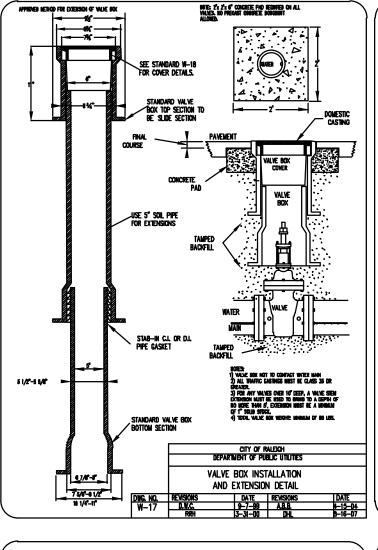
5. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20FT, THEN THE

6. FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW.

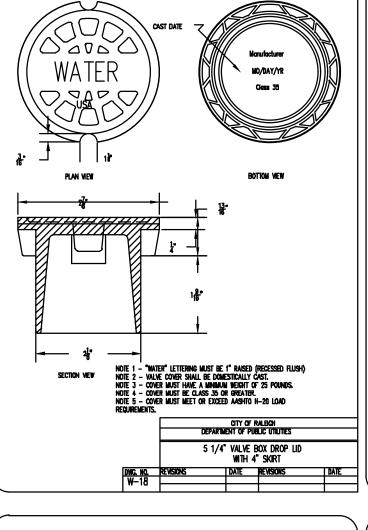
6" GATE VALVE SHALL BE AWWA C500–86 OPEN LEFT

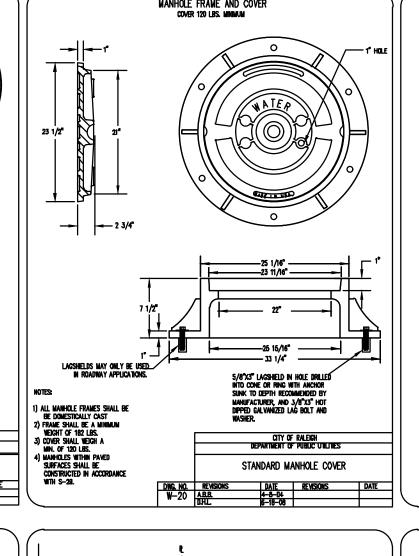
MECHANICAL JOINT RETSTRAINING SYSTEM...

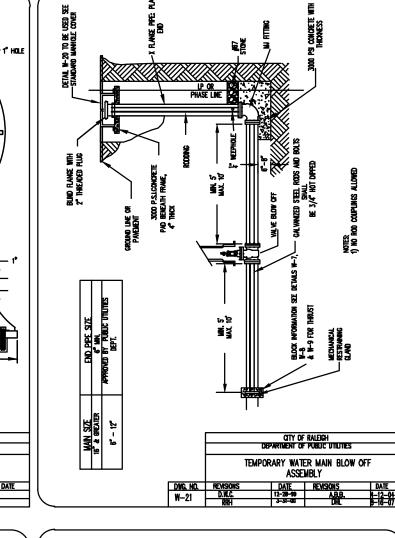
_7 CU. FT. CRUSHED

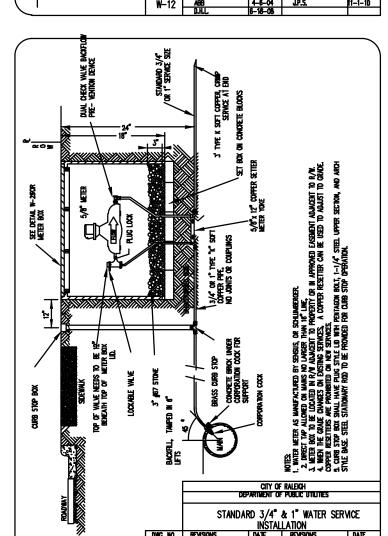


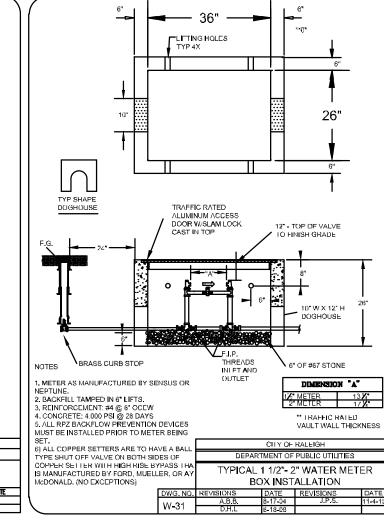
2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

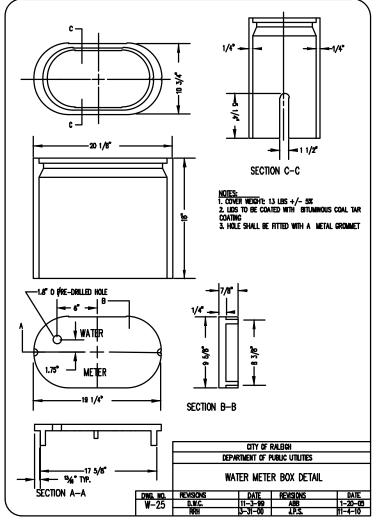


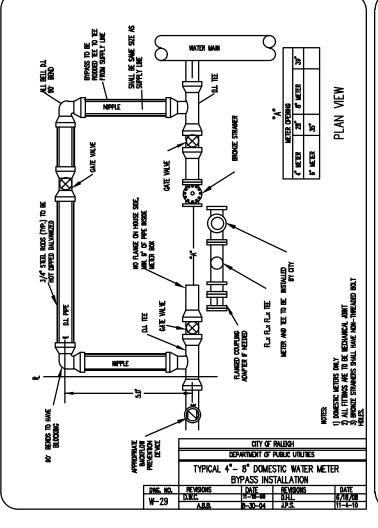


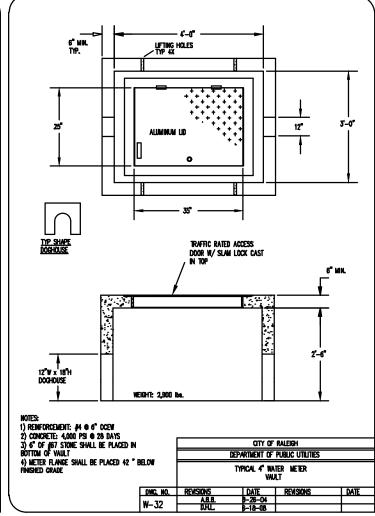


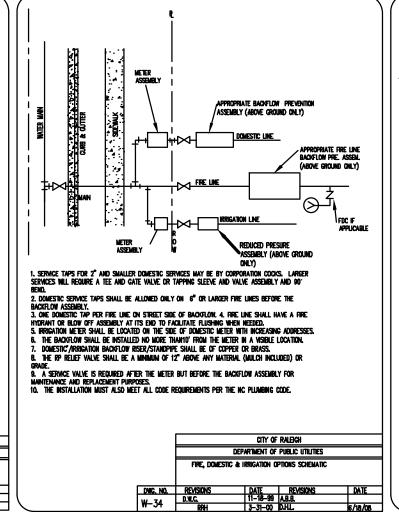


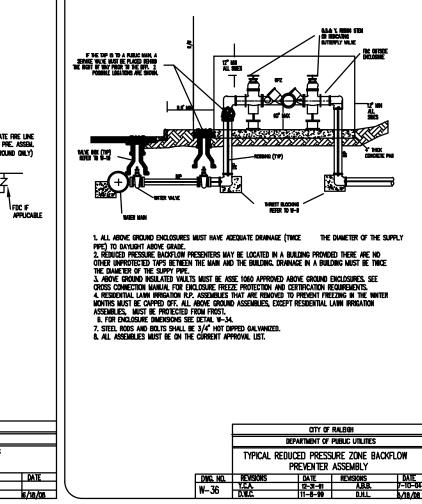


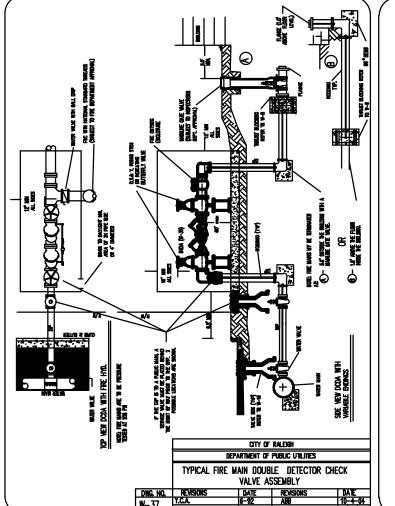


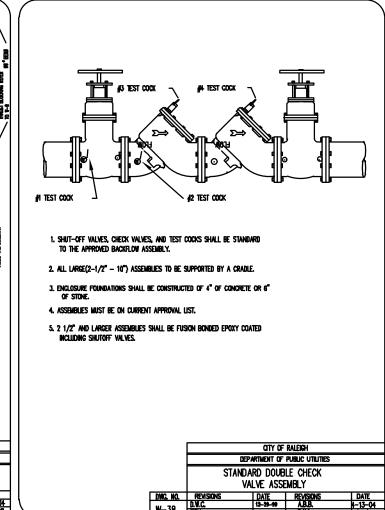


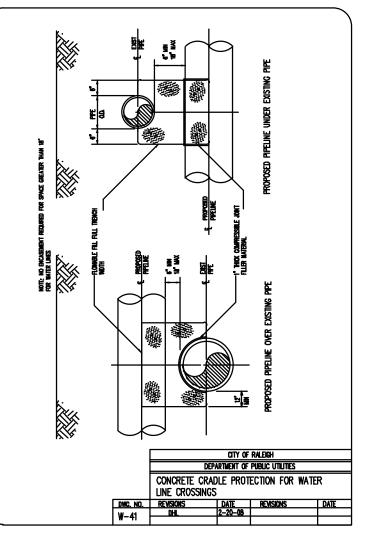


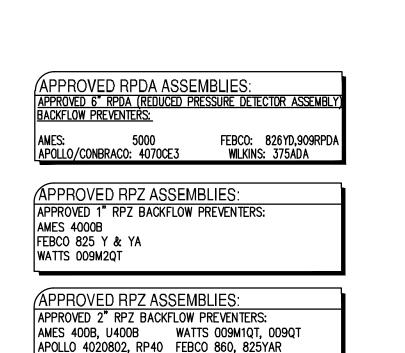




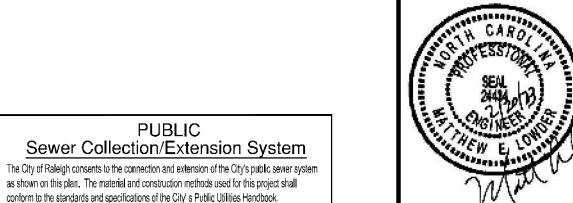








WILKINS 375, 375B



Authorization to Construct See digital signature	F	PLAN STATU	JS
	1/10/23	1ST CD SUI	BMISSION
	2/20/23	2ND CD SU	BMISSION
ATTENTION CONTRACTORS			
ATTENTION CONTINUTORS			
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for			
contacting the Public Utilities Department at (919)996-4540	DATE	DESCRIP	TION
at least <i>twenty four hours</i> prior to beginning any of their construction.	MEL	MEL	XXX
Failure to notify both City Departments in advance of beginning	DESIGN	DRAWN	CHKD
construction, will result in the issuance of <i>monetary fines</i> , and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.	SCALE	H: 1" = XX V: 1" = XX	
do di rosali di ilio ficiliodidi ficiliaro.			

FILE No. 220127-D-CP-00

Cad file name: V:\220127 - Primax Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-UTP.dwg

JOB No. 220127-01-001 DATE January 10, 2023

TRACTOR SUPPLY COMPA

upply way 26²

Tractor Old US Hig bulon, NC

S

UTILITY

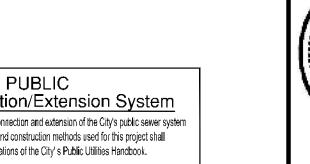
C6.6A SHEET



TRACTOR SUPPLY COMPAN

Supply

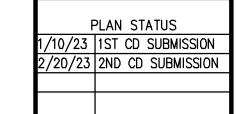
DETAIL Tractor Old US Hig bulon, NC



CITY OF RALEIGH

DEPARTMENT OF PUBLIC UTILITIES

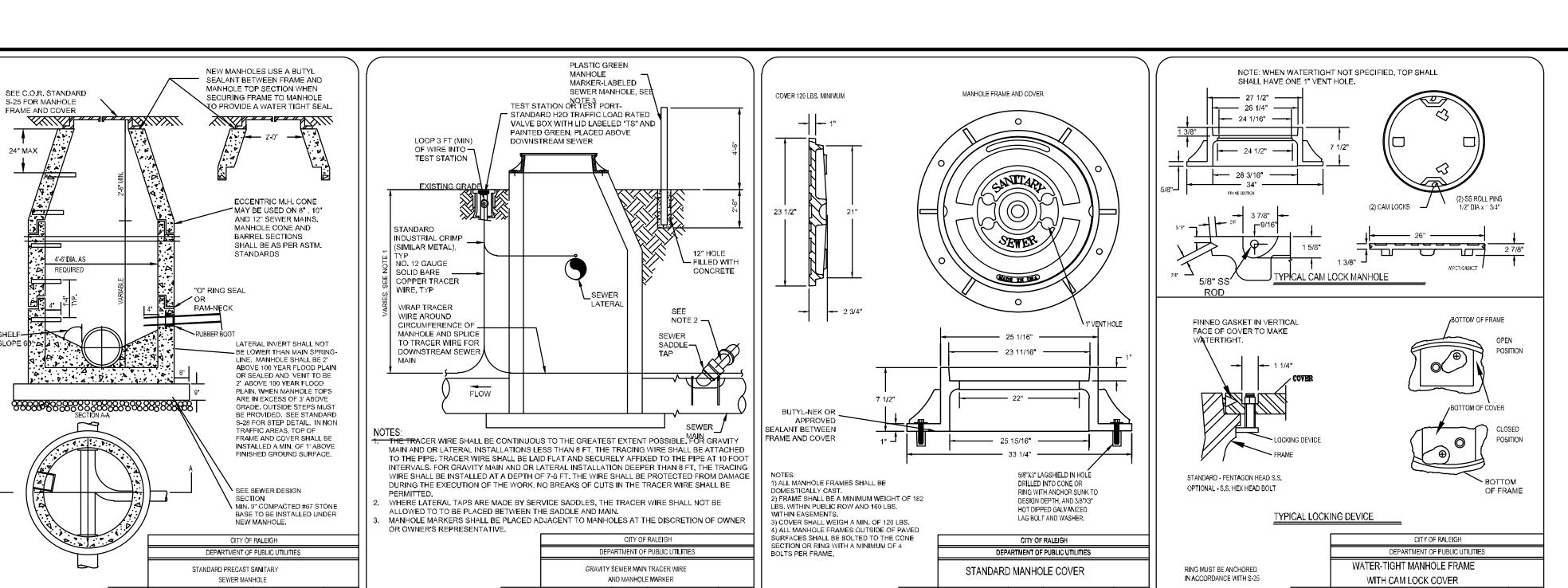
PIPE ALIGNMENT GUIDE

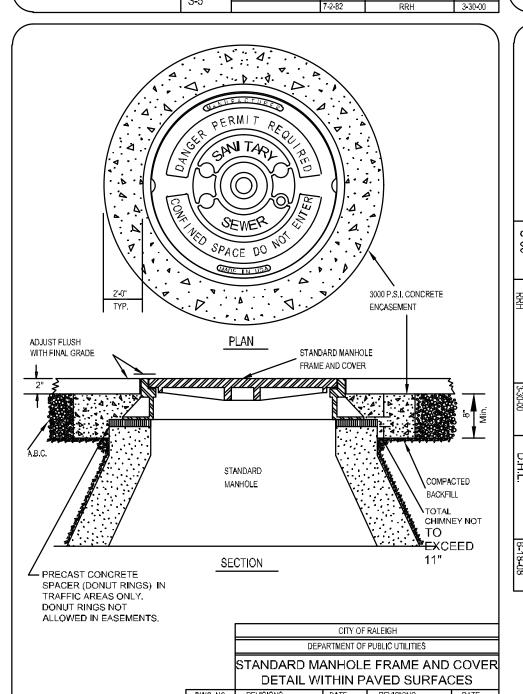


DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD H: 1" = XXX' SCALE V: 1" = XXX'JOB No. 220127-01-001

DATE January 10, 2023 FILE No. 220127-D-CP-00

C6.6B





TYPICAL TRENCH BOTTOM DIMENSIONS

FOR SDR 35 PVC GRAVITY PIPE

1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE

4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.

3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.

UNDISTURBED SOIL

CITY OF RALFIGH

DEPARTMENT OF PUBLIC UTILITIES

TRENCH BOTTOM DIMENSIONS AND BACKFILLING

REQUIREMENTS FOR PVC GRAVITY SEWER MAIN

FINAL BACK**FI**LL

BACKFIL

TAMP WELL UNDER

BOTTOM HALF OF PIPE

CLEARANCE

MAXIMUM SIDE

CITY OF RALFIGH

DEPARTMENT OF PUBLIC LITILITIES.

TRENCH BOTTOM DIMENSIONS & BACKFILLING

SIDE

ELEVATION

DEPARTMENT OF PUBLIC UTILITIES

MANHOLE STEP DETAIL

DATE REVISIONS

REQUIREMENTS FOR DUCTILE IRON

2" O.D. OF PIPE 12"

1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE

5. ACHIEVE 80% COMPACTION IN NON-TRAFFIC AREAS, AND 95% COMPACTION IN TRAFFIC AREAS.

4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

70000000000000000

ELEVATION

SLIP RESISTANT CLEATS

#3 OR #4 REBAR

SECTION A - A

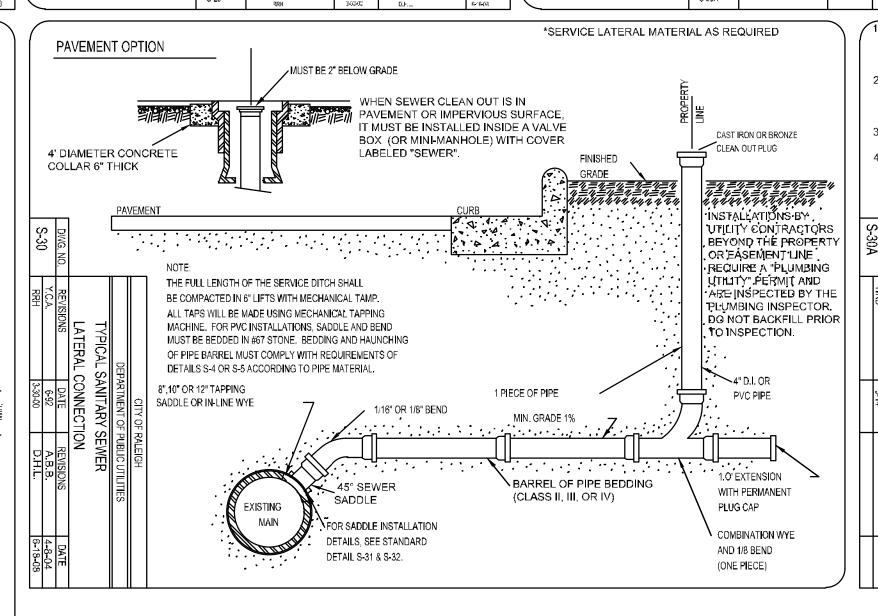
CORROSION RESISTANT /MATERIAL RUBBER, PLASTIC

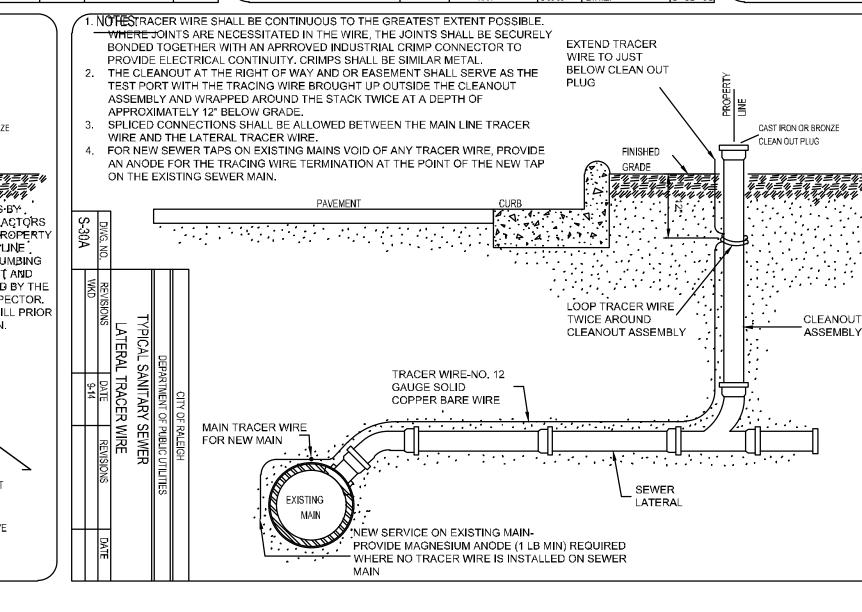
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.

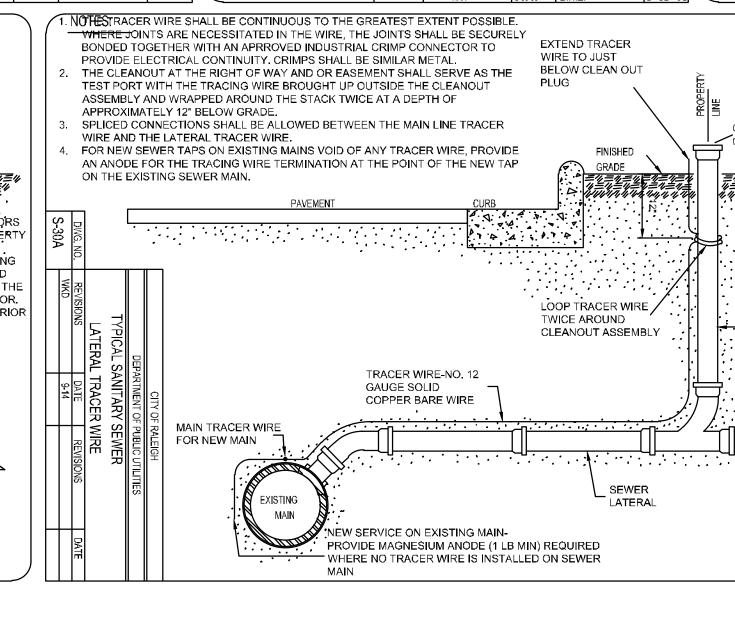
6. IF IN EASEMENT 4" TOPSOIL, AND 12" CLEAN SELECT FILL MAY BE REQUIRED.

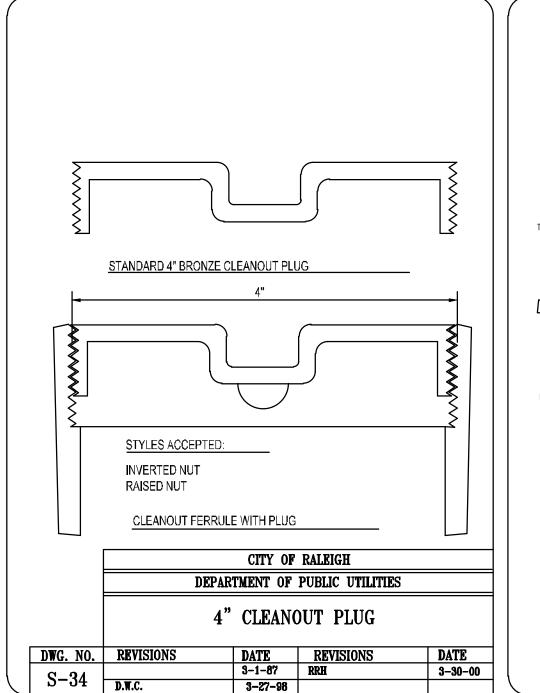
NO BOULDERS 8" IN DIAMETER OR GREATER ALLOWED IN FINAL BACKFILL

3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.









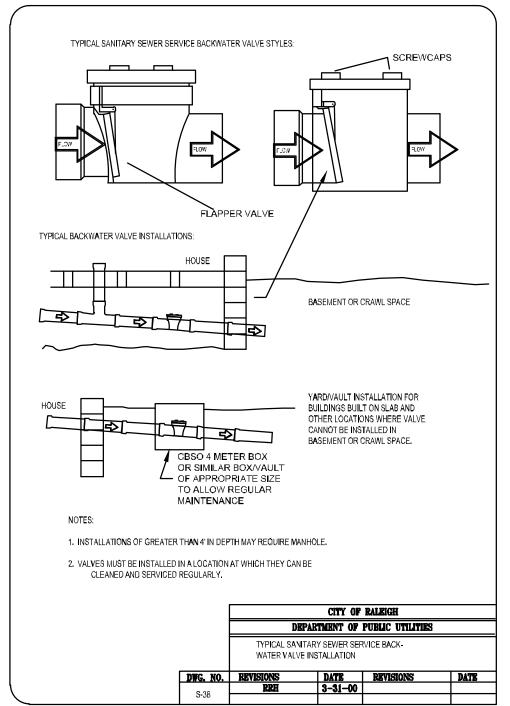
BACKFILL

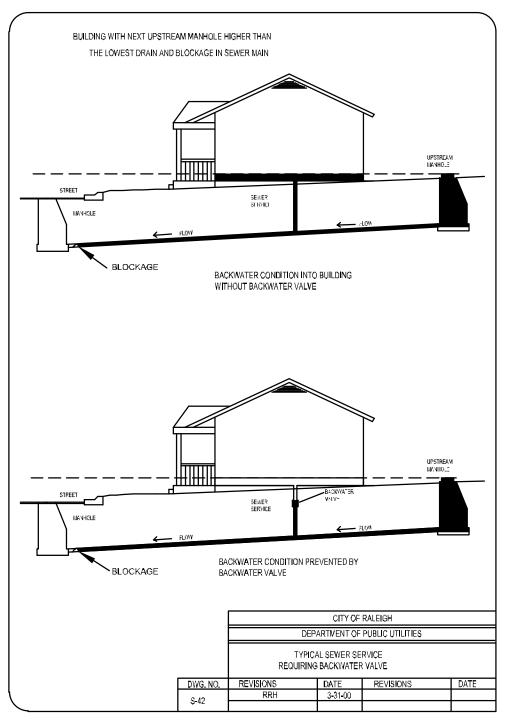
6" #67 STONE

WHEN ROCK IS

ENCOUNTERED

FACE OF THE SHORING AND BRACING.





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 # \$\,\ \text{S-5172} Authorization to Construct

CARRIER PIPE -

1) USE A MINIMUM OF TWO SPIDERS PER PIPE JOINT ONE

FOURTH OF THE PIPE JOINT LENGTH IN FROM BOTH THE BELL

3/8" STEEL PLATE, TYP -

Ø/8" A325 BOL[™]

RAD ON ALL CORNERS -

AND SPIGOT ENDS.

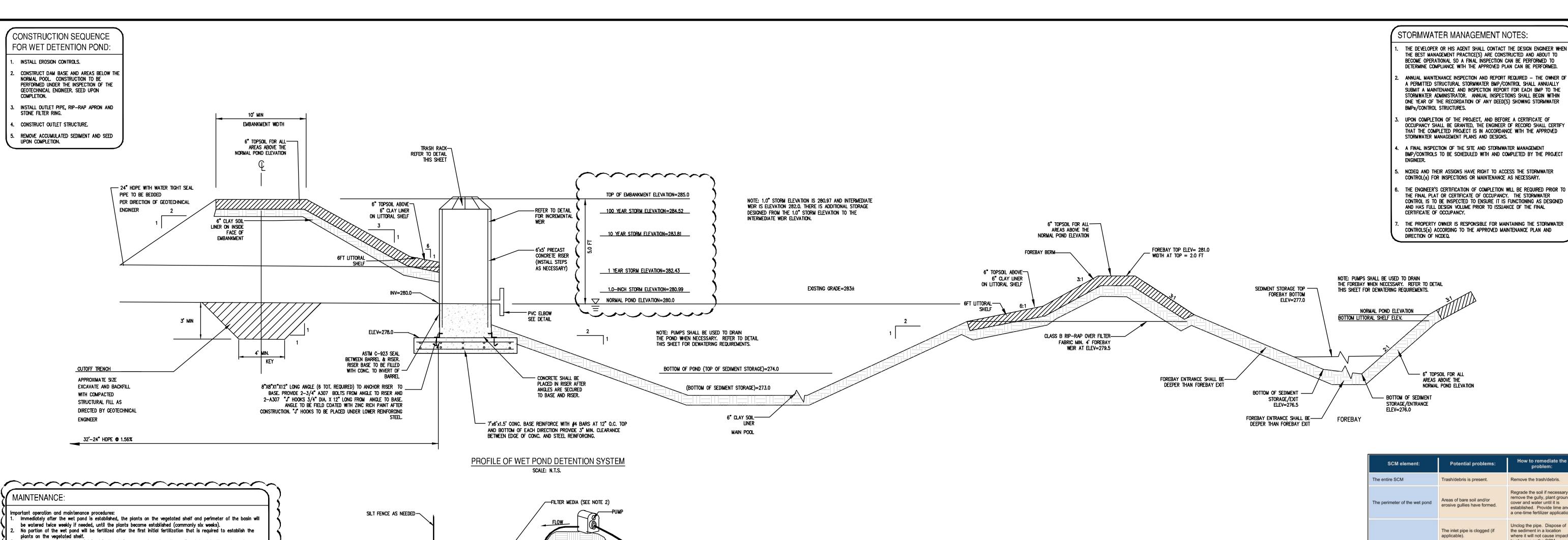
ATTENTION CONTRACTORS

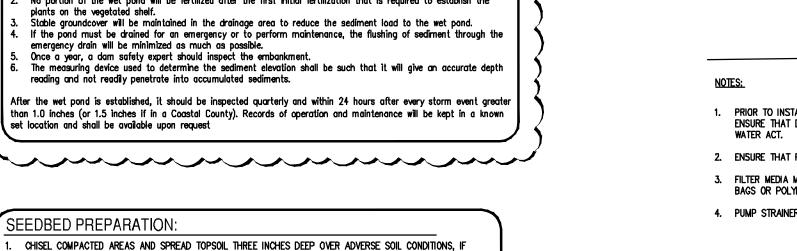
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919)996-4540 at least twenty four hours prior to beginning any of their construction.

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

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

Cad file name: V: \220127 - Primax Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-UTP.dwg





- RIP THE ENTIRE AREA TO SIX INCHES DEEP. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND
- APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE SEEDING
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RE-SEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

LANDSCAPING NOTES:

ALL LANDSCAPING SHALL BE IN COMPLIANCE WITH THE NCDEQ BMP REQUIREMENTS.

LANDSCAPE CONTRACTOR SHALL PROVIDE A TWO-YEAR WARRANTY FOR BMP PLANTING SURVIVAL/REPLACEMENT. AT THE END OF THE FIRST YEAR AND AT THE END OF THE TWO-YEAR WARRANTY PERIOD, ALL PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.

ESTABLISHMENT PROCEDURES, SUCH AS CONTROL OF INVASIVE WEEDS, ANIMAL AND VANDAL DAMAGE, MULCHING, RE-STAKING, WATERING, AND MESH OR TUBE PROTECTION REPLACEMENT, SHALL BE IMPLEMENTED TO THE EXTEND NEEDED TO ENSURE PLANT SURVIVAL. STAKING MUST BE REMOVED AFTER ESTABLISHMENT (APPROXIMATELY 12 MONTHS), TO PREVENT GIRDLING (STRANGLING) OF ALL WOODY PLANTS.

SOD WITHIN BMP AND SURROUNDING AREAS TO BE BERMUDA OR CENTIPEDE GRASS.

GRASS OR WILDFLOWER SEED MUST BE APPLIED AT THE RATES SPECIFIED BY THE SUPPLIERS. IF PLANT ESTABLISHMENT CANNOT BE ACHIEVED WITH SEEDING BY THE TIME OF SUBSTANTIAL COMPLETION OF THE STORMWATER FACILITY PORTION OF THE PROJECT, THEN THE CONTRACTOR SHALL PLANT THE AREA WITH WILDFLOWER SOD, PLUGS, CONTAINER PLANTS, OR OTHER MEANS TO COMPLETE THE SPECIFIED PLANTING AND PROTECT AGAINST EROSION

LL MATERIALS SHALL BE ACQUIRED FROM AN APPROVED NCDEQ PLANT VENDOR. PLANT MATERIAL SHOULD BE PURCHASED FROM A LOCAL SOURCE TO ENSURE SURVIVABILITY. LOCAL VENDORS FOR THIS SITE INCLUDE: - CILL IDE NATIVE PLANT NURSERY 919-662-5566

- GROWING WILD NURSERY - NC FOREST SERVICE

919-772-4794 PLANT DELIGHTS NURSERY TARHEEL NATIVE TREES 919-553-5927 MMEDIATELY AFTER THE WET DETENTION BASIN IS ESTABLISHED, THE PLANTS ON THE VEGETATED SHELF AND

PERIMETER OF THE BASIN SHOULD BE WATERED TWICE WEEKLY IF NEEDED UNTIL THE PLANTS BECOME ESTABLISHED NO PORTION OF THE WET DETENTION POND SHOULD BE FERTILIZED AFTER THE FIRST INITIAL FERTILIZATION THAT IS REQUIRED TO ESTABLISH THE PLANTS ON THE VEGETATED SHELF.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES REGARDING LANDSCAPING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A HEALTHY STAND OF GRASS ON ALL SEEDED

CONTRACTOR SHALL PROVIDE NATURAL TOPSOIL THAT IS FERTILE, FRIABLE, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL DRAINED, AVAILABLE SITE. IT SHALL NOT CONTAIN SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED AND FREE FROM CLAY, LUMPS, STONES, ROOTS, PLANTS, OR SIMILAR SUBSTANCES 1" OR MORE IN DIAMETER, DEBRIS, OR OTHER OBJECTS WHICH MIGHT BE A HINDERANCE TO PLANTING OPERATIONS. TOPSOIL SHALL CONTAIN AT LEAST 4-6% ORGANIC MATTER BY WEIGHT AND HAVE A PH RANGE OF 5.5 TO 7.0.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATERING AND THE MAINTENANCE OF ALL LANDSCAPED AREAS UNTIL THE LATER OF; (a) THIRTY (30) DAYS FOLLOWING THE PLANTING OF THE GRASS AND SHRUBS, OR (b) THE DATE THAT STORE OPENS FOR BUSINESS TO THE PUBLIC. CONTRACTOR SHALL ALSO BE RESPONSIBILITY FOR THE SURVIVAL OF THE BMP PLANTING MATERIALS DURING THE TWO-YEAR WARRANTY PERIOD AND SHALL REPLACE ALL PLANTS THAT DO NOT SURVIVE AT THE END OF THE FIRST YEAR AND AT THE END OF THE

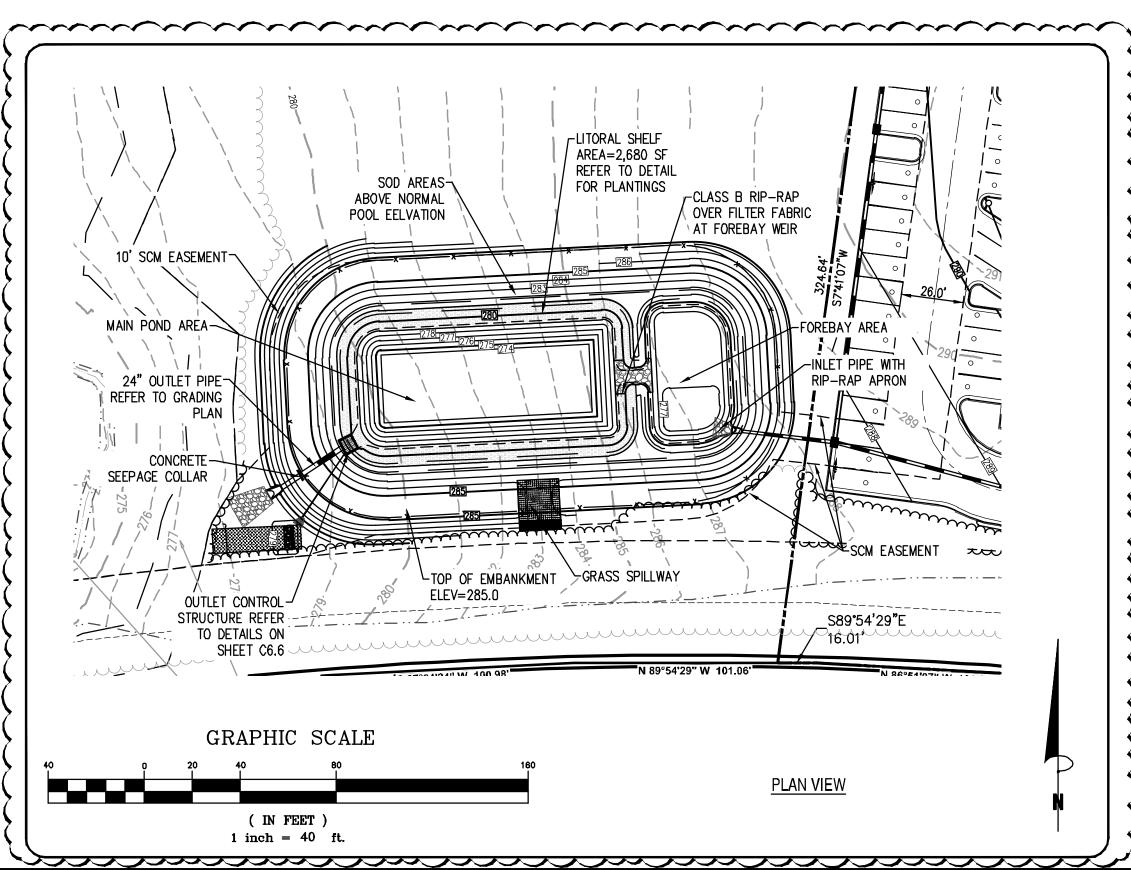
SECOND YEAR OF THE WARRANTY PERIOD. CONTRACTOR TO VERIFY QUANTITIES PRIOR TO COMMENCING WORK.

ANY DISTURBED AREAS NOT SCHEDULED FOR HARDSCAPE, PLANTINGS, OR MULCH SHALL BE SEEDED LAWN. REFER TO SITE PLAN FOR LOCATION OF AREAS TO BE SODDED. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.

COMPACTED SOIL AND ADD 18" NEW TOPSOIL, OR TILL AND AMEND THE TOP 18" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES. ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES. PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS, WATER, PHONE, AND ELECTRICAL LINES.)

FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE

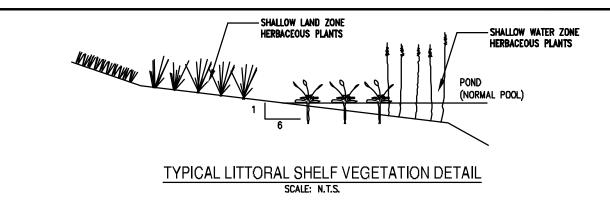
SILT	FENCE AS NEEDED—————————————————————————————————	Tow
		—WATER LEVEL
NO	<u>TES:</u>	
1.	PRIOR TO INSTALLATION, MANUFACTURER SPECIFICATIONS OF FILTER MEDIA SHALL BE REVIEWED TO ENSURE THAT DISCHARGE FROM FILTER MEDIA SHALL MEET OR EXCEED THE PROVISIONS OF THE CLEAN WATER ACT.	
2.	ENSURE THAT PUMP PRESSURE DOES NOT EXCEED FILTER MEDIA PRESSURE RATING.	
3.	FILTER MEDIA MAY BE, BUT NOT LIMITED TO, SAND MEDIA FILTRATION DEVICES, RATED FILTER FABRIC BAGS OR POLYMER BASED DEWATERING PRACTICES.	
4.	PUMP STRAINER SHALL NOT BE IN CONTACT WITH BOTTOM OF POND.	
	BMP POND DEWATERING	LOW POINT



_					
	STAGE (FT)	ELEVATION (FT)	CONTOUR AREA (SF)	INCREMENTAL STORAGE (CF)	TOTAL STORAGE (CF)
	0.0	280.0	8385	0	0
	0.5	280.5	9635	4505	4505
	1.0	281.0	10395	5008	9513
	1.7	281.7	11535	7676	17188 (WQV)
	2.0	282.0	11940	3521	20709
	3.0	283.0	13325	12633	33342
	4.0	284.0	14765	14045	47387
	5.0	285.0	16265	15515	62902

STAGE/STORAGE TABLE

RIVER BASIN: NEUSI					
	E CREEK (WEST SIDE) 6–2–4				
STREAM CLASS: C;NSV	:				
HUC: 03020					
	8782N, -78.293752W				
	,				
POND DESIGN SUMMARY		F 57.4	ADEO		
DRAINAGE AREA TO POND:			ACRES		
SITE IMPERVIOUS AREA TO PONI			ACRES		
OFF-SITE DESIGN IMPERVIOUS A			ACRES ACRES		
TOTAL DESIGN IMPERVIOUS AREA	A TO PUND:	4.62	ACRES		
	PRE-DEVELOPED	POST-DEVELOPED	POST-DEVELOPED	POST-DEVELOPED	POST-DEVELOP
	TO POND	to pond	THROUGH POND	BYPASS	TOTAL
DRAINAGE AREA:	3.71 AC	5.57 AC		0.40 AC	
CURVE NUMBER:	83.0	94.9		83.8	
TIME OF CONCENTRATION:	14.0 MIN	5 MIN		10 MIN	
1.0" STORM EVENT:		2.599 CFS	0.098 CFS		
1-YEAR STORM EVENT:	6.225 CFS	19.97 CFS	1.561 CFS	0.800 CFS	2,361 CFS
10-YEAR STORM EVENT:	15.39 CFS	37.96 CFS	12.59 CFS	1.936 CFS	14.53 CFS
100-YEAR STORM EVENT:	27,21 CFS	60.08 CFS	43.50 CFS	3.389 CFS	46.89 CFS
100_YEAR STORM EVENTS	27 21 CFS	60.08 CES	43.50 CFS	3.389 CFS	



SCALE: N.T.S.								
SCIENTIFIC NAME	COMMON NAME	PLANTING ZONE	QUANTITY	NURSERY CONTAINER TYPE	SPACING	PLANTING SEASON		
Jancus effesus	Soft Rush	SHALLOW WATER	112	PEAT POT	6° 0.C.	SPRING/SUMMER		
Iris virginica	Blue Flag Iris	SHALLOW WATER	112	PEAT POT	6' O.C.	SPRING/SUMMER		
Schoenoplectus tabernaemontani	Soft Stern Bulrush	SHALLOW WATER	112	PEAT POT	6' O.C.	SPRING/SUMMER		
Eupatoriadelphus maculatus	Spotted Trumpetweed	SHALLOW WATER	112	PEAT POT	6' O.C.	SPRING/SUMMER		
Eupatorium purpureum	Joe-Pye Weed	SHALLOW WATER	112	PEAT POT	6' O.C.	SPRING/SUMMER		
Rhynchospora colorata	Starrush Whitetop	SHALLOW WATER	112	PEAT POT	6° O.C.	SPRING/SUMMER		

TYPICAL LITTORAL SHELF PLANTING SCHEDULE

STORMWATER MANAGEMENT SYSTEM DETAILS NOT TO SCALE

		problem.
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The perimeter of the wet pond	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, plant ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	The inlet pipe is clogged (if applicable).	Unclog the pipe. Dispose of the sediment in a location where it will not cause impacts to streams or the SCM.
The inlet device	The inlet pipe is cracked or otherwise damaged (if applicable).	Repair or replace the pipe.
	Erosion is occurring in the swale (if applicable).	Regrade the swale if necessary and provide erosion control devices such as reinforced turf matting or riprap to avoid future erosion problems.
The forebay	Sediment has accumulated to a depth greater than the original design depth for sediment storage.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
	Erosion has occurred.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.
	Best professional practices show that pruning is needed to maintain optimal plant health.	Prune according to best professional practices.
The vegetated shelf	Plants are dead, diseased or dying.	Determine the source of the problem: soils, hydrology, disease, etc. Remedy the problem and replace plants. Provide a one-time fertilizer application to establish the ground cover if a soil test indicates it is necessary.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.
	Sediment has accumulated to a depth greater than the original design sediment storage depth.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
The main treatment area	Algal growth covers over 50% of the area.	Consult a professional to remove and control the algal growth.
	Cattails, phragmites or other invasive plants cover 50% of the basin surface.	Remove the plants by wiping them with pesticide (do not spray).
	Shrubs have started to grow on the embankment.	Remove shrubs immediately.
The embankment	Evidence of muskrat or beaver activity is present.	Consult a professional to remove muskrats or beavers and repair any holes or erosion
	A tree has started to grow on the embankment.	Consult a dam safety specialist to remove the tree.
	An annual inspection by an appropriate professional shows that the embankment needs repair.	Make all needed repairs immediately.
The outlet device	Clogging has occurred.	Clean out the outlet device and dispose of any sediment in a location where it will not cause impacts to streams or the SCM
	The outlet device is damaged	Repair or replace the outlet device.
Floating wetland island (if	Weeds or volunteer trees are growing on the mat.	Remove the weeds or trees.
applicable)	The anchor cable is damaged, disconnected or missing.	Restore the anchor cable to its design state.
	Erosion or other signs of	Repair the damage and

damage have occurred at the improve the flow dissipation

Contact the local NCDEQ

are causing erosion or sedimentation in the receiving Contact the local Regional Office.

Discharges from the wet pond

The receiving water

TRACTOR SUPPLY COMPAN

AGEMENT Supply ghway 264 ractor I US Hig L B 핕

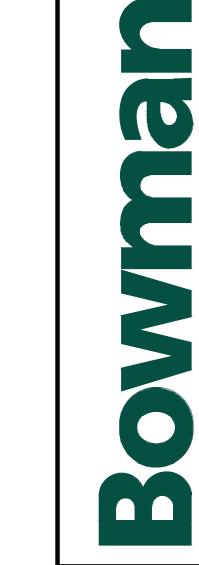
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PLAN STATUS 10/23 | 1ST CD SUBMISSION 20/23|2ND CD SUBMISSION DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE H: 1" = XXX' V: 1" = XXX' DB No. 220127-01-001 DATE January 10, 2023 FILE No. 220127-D-CP-00

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SHEET

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TRACTOR SUPPLY COMPANY

Supply ghway 264 Tractor Old US Hig bulon, NC

NAGEMENT

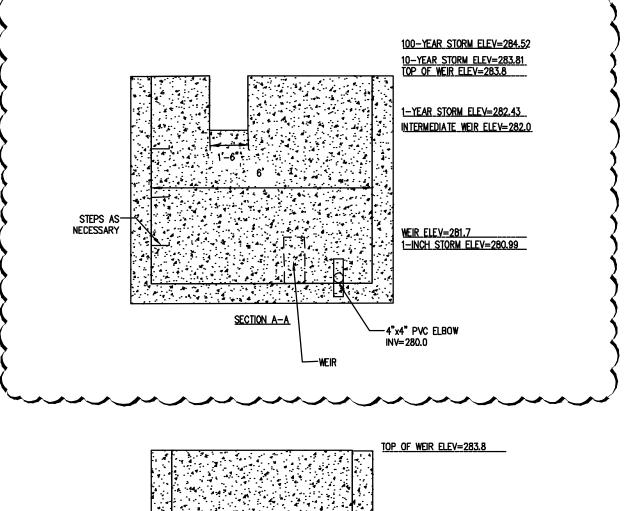
STORMWATER MAI

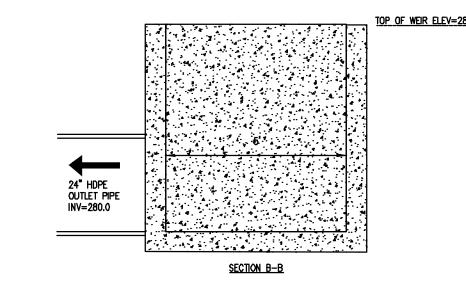
PLAN STATUS I/10/23 | 1ST CD SUBMISSION 2/20/23 2ND CD SUBMISSION

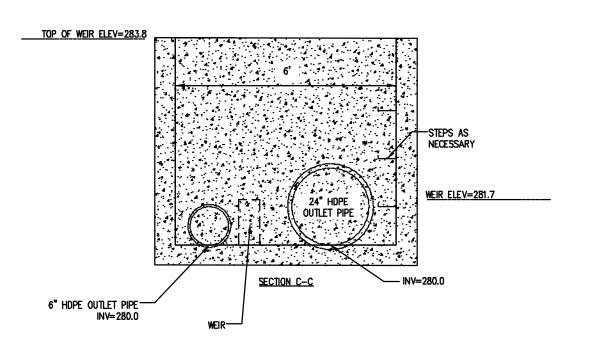
DATE DESCRIPTION MEL XXX DESIGN DRAWN CHKD SCALE H: 1" = XXX' V: 1" = XXX' JOB No. 220127-01-001

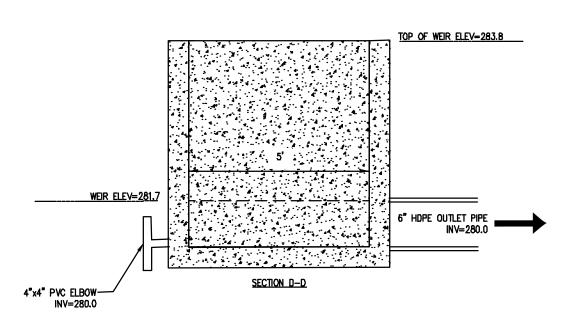
DATE January 10, 2023 FILE No. 220127-D-CP-00 C6.8

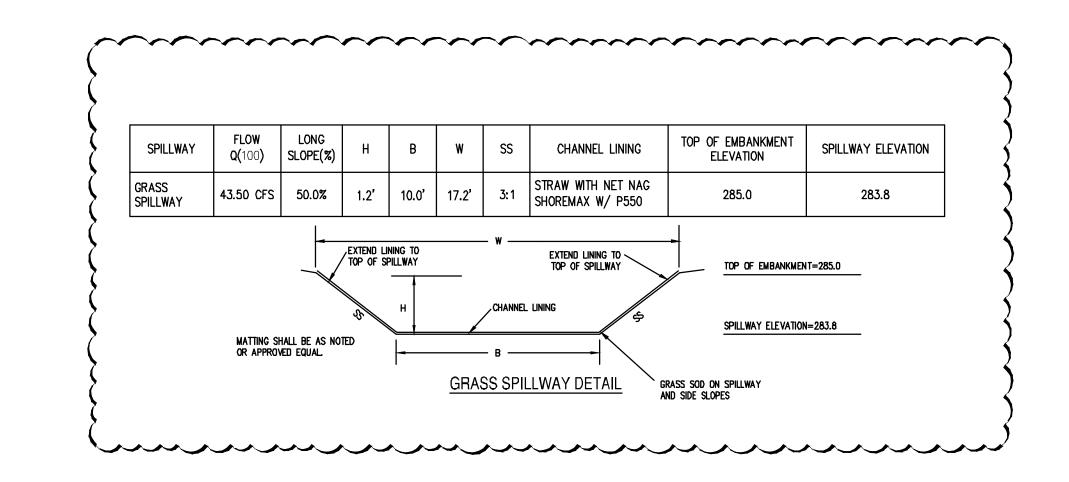
3.0° - #4 REBAR � 12" OC IN FRONT & REAR FACE OF COLLAR. REBAR TO 4" PVC SCREW CAP -FOR CLEANING ACCESS HAVE 3" MIN. CONC. COVER FROM EDGE OR FACE OF COLLAR 4 4 . . . EXTEND 4" 1. ALL CONCRETE TO BE 3000 PSI NON-FLY THROUGH RISER STRUCTURE 2. APPLY ½" THICK WRAP OF ASPHALTIC
CEMENT AROUND DISCHARGE PIPE 6"
BEYOND PLANNED SEPAGE COLLAR ON
BOTH SIDES.
3. APPLY ADDITIONAL ASPHALTIC CEMENT AT 4"x4" PVC TEE -24" HDPE PERM. POND ELEV.=280.0 PIPE/SEEPAGE COLLAR INTERFACE ON UPSTREAM FACES.
TO BE FIELD INSPECTED BY GEOTECHNICAL ENGINEER. ASPHALTIC CEMENT TO MEET OR EXCEED FEDERAL SPECIFICATION SS-153 TYPE 1: ASTM-D-2822-75 TYPE 1. 12" MIN. 2"DIA. HOLE DRILLED ----INTO BOTTOM CAP CONCRETE SEEPAGE COLLAR PVC DRAIN OUTLET SCALE: N.T.S.











— TOP OF STRUCTURE NOT SHOWN FOR CLARITY

(REMOVABLE TRASH RACK)

2'-6" WEIR OPENING

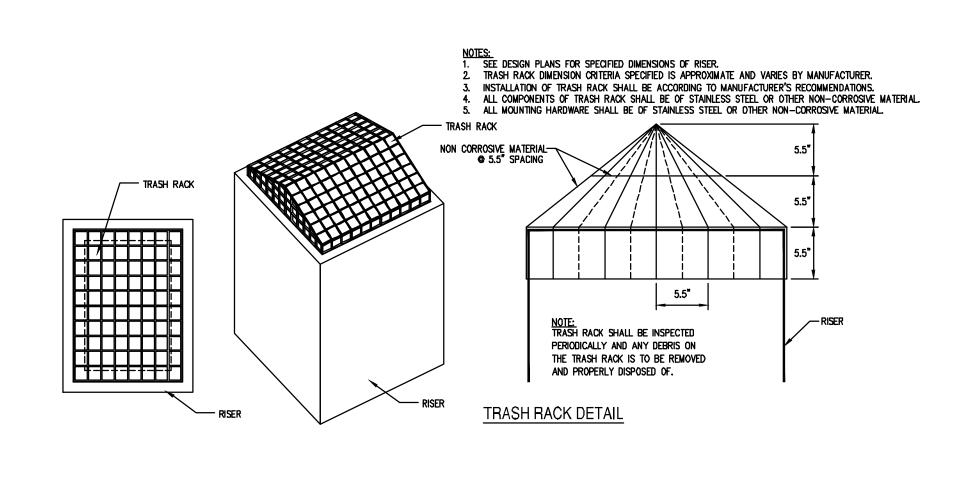
OUTLET CONTROL STRUCTURE — INCREMENTAL WEIR SCALE: N.T.S.

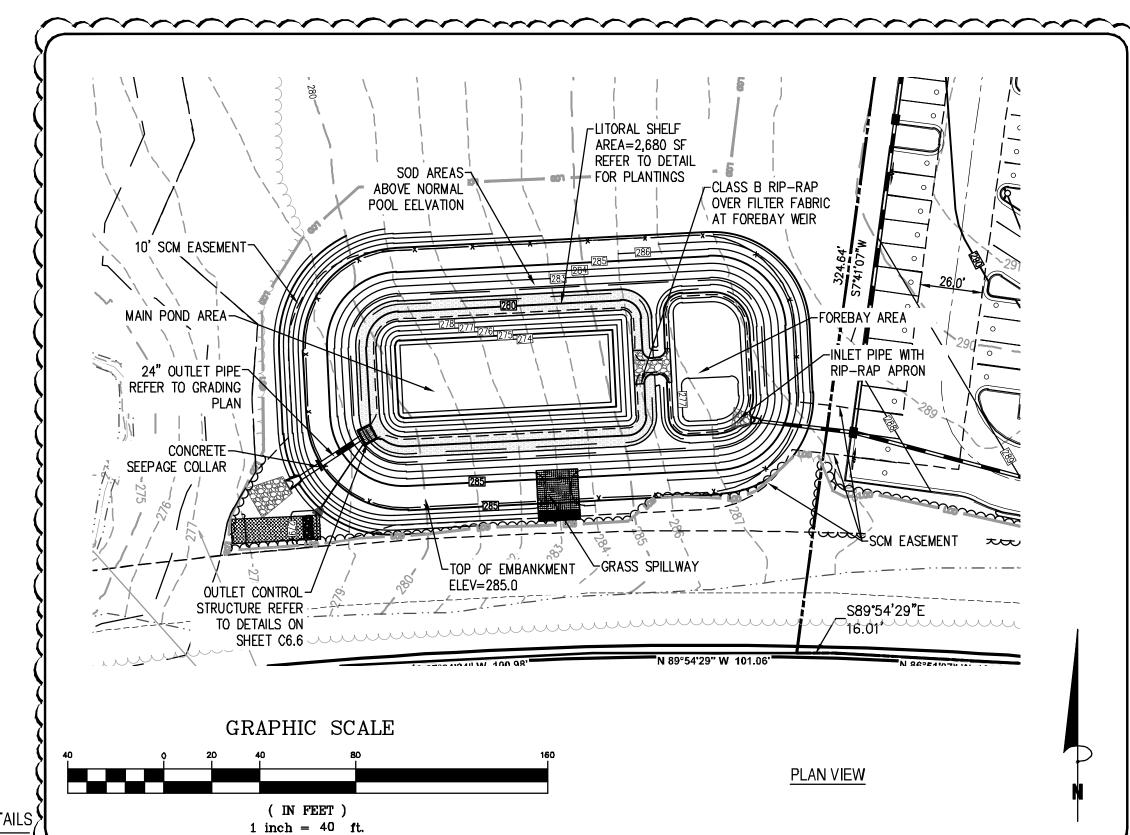
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<u>PLAN VIEW</u>

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4"x4" PVC ELBOW-





STORMWATER MANAGEMENT SYSTEM DETAILS

NOT TO SCALE

CONCRETE CURB AND GUTTER	GRASS CHANNEL	FOREBAY	#57 STONE ON	GRASS LINED	PE TO THE THE THE THE THE THE THE THE THE THE	TOP OF CURB TO BE LEVEL SPREADER LIP FLOW DIRECTION	3" LAYER OF #57 STONE	Nkalkak,
	F	PLAN VIEW	Filter Fabric	CHANNEL 6" DEEP, 2' WIDE.	воттом	1'-6" CURB AND GUTTER	3' WIDE STRIP OF FILTER FABRIC	
	OUTFALL PIPE					CROSS SECTION		
		⋖	ONG x 5' WIDE		GRASS CHANNEL	INSPECT THE LEVEL SPREADED VEGETATION IS ESTABLISHED REPAIRS. AFTER THE AREA H.	NANCE _DISTURBED_AREAS R AFTER EVERY RAINFALL UNTIL AND PROPERLY MAKE ANY NEEDED AS BEEN STABILIZED, MAKE PERIODIC TATION IN A HEALTHY, VIGOROUS	
		3'		1'		UNIFORM HEIGHT AND ZERO OF SPREADER. PROTECT IT WITH	THE LEVEL LIP ON UNDISTURBED SOIL BRADE OVER THE LENGTH OF THE I AN EROSION RESISTANT MATERIAL S IT EROSION, TO BECOME ESTABLISHED	SUCH
				8" CLASS B RIP-RAP OVER		<u>OUTLET AREA</u> — THE OUTLET I SMOOTH AND WELL VEGETATE	DISPOSAL AREA MUST BE GENERALLY D WITH A MAXIMUM SLOPE OF 10%.	

GRASS SHALL BE EITHER HYBRID BERMUDA GRASS OR CENTIPED

OPERATION & MAINTENANCE

North Carolina storm water rules require annual inspections by the regulating agency of level spreader—filter strip areas as a minimum. More frequent inspections by the land owner or system operator are strongly encouraged to ensure the proper operation of level spreader-filter strip areas

MATERIAL

. Rainfall Event 1. Inspect the SCM after every runoff-producing rainfall event. Monthly Inspection

VEGETATIVE FILTER STRIP - SOIL MIXTURE

ORGANIC MATTER 3%-5%

PERCENT BY WEIGHT

DURING THE CONSTRUCTION OF THE VEGETATIVE FILTER STRIP FACILITY. THE

BE WITHIN 2 INCHES OF ELEVATIONS SHOWN ON THE CONTRACT PLANS.

THE PLANTING OR MAINTENANCE OPERATIONS.

85-88%

8%-12%

SOIL MIXTURE

1. Inspect the SCM monthly

2. Check the level spreader-filter strip area side slopes; remove trash and repair erode areas before the next rainfall event.

3. Check the vegetative and rock filters for sediment accumulation, erosion and proper operation of the flow spreader mechanism and repair as necessary. 4. Visually inspect and repair soil erosion on a monthly basis.

5. Remulch any void area whenever necessary. Replacement of mulch layers may be necessary every two or three years. mulch should be replaced in the spring. When the mulch layer is replaced, the previous layer should be removed first. 6. Remove and replace all dead and diseased vegetation considered beyond treatment This should be done twice a year, once in the spring and once in the fall. Treat all

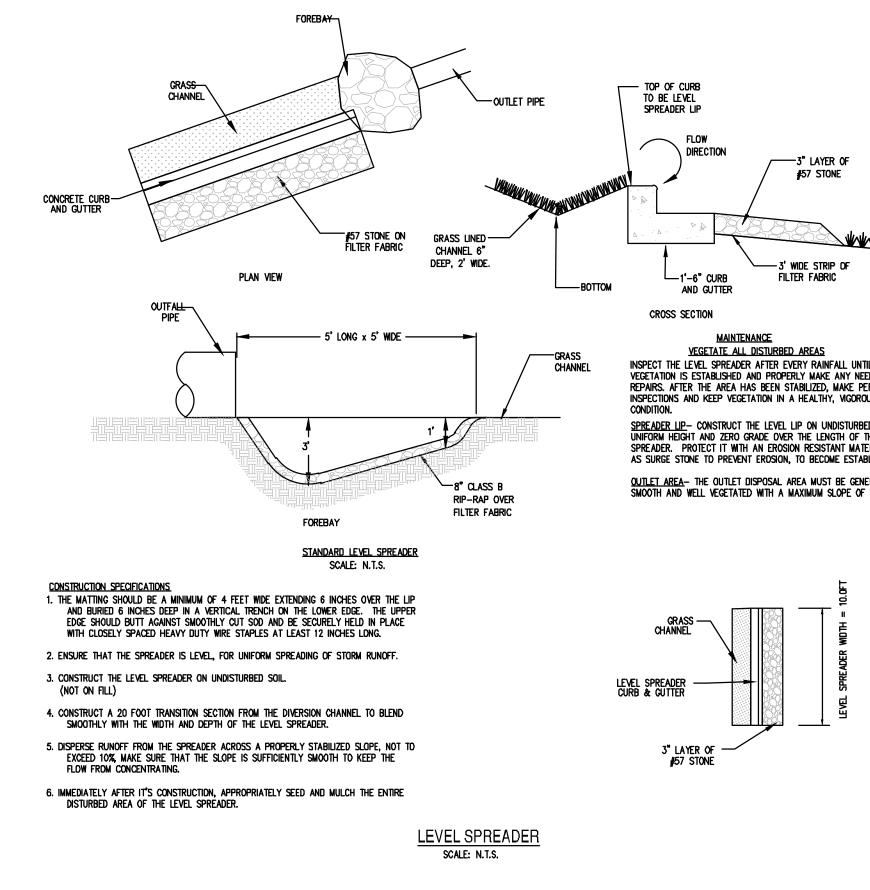
functioning. Clear accumulated trash from basin grates and basin bottoms. Check pipin Check SCM inlet pipes for undercutting, replace rip-rap and repair broken pipes.
 Reseed grassed swales, including the vegetated filter if applicable, twice a year as

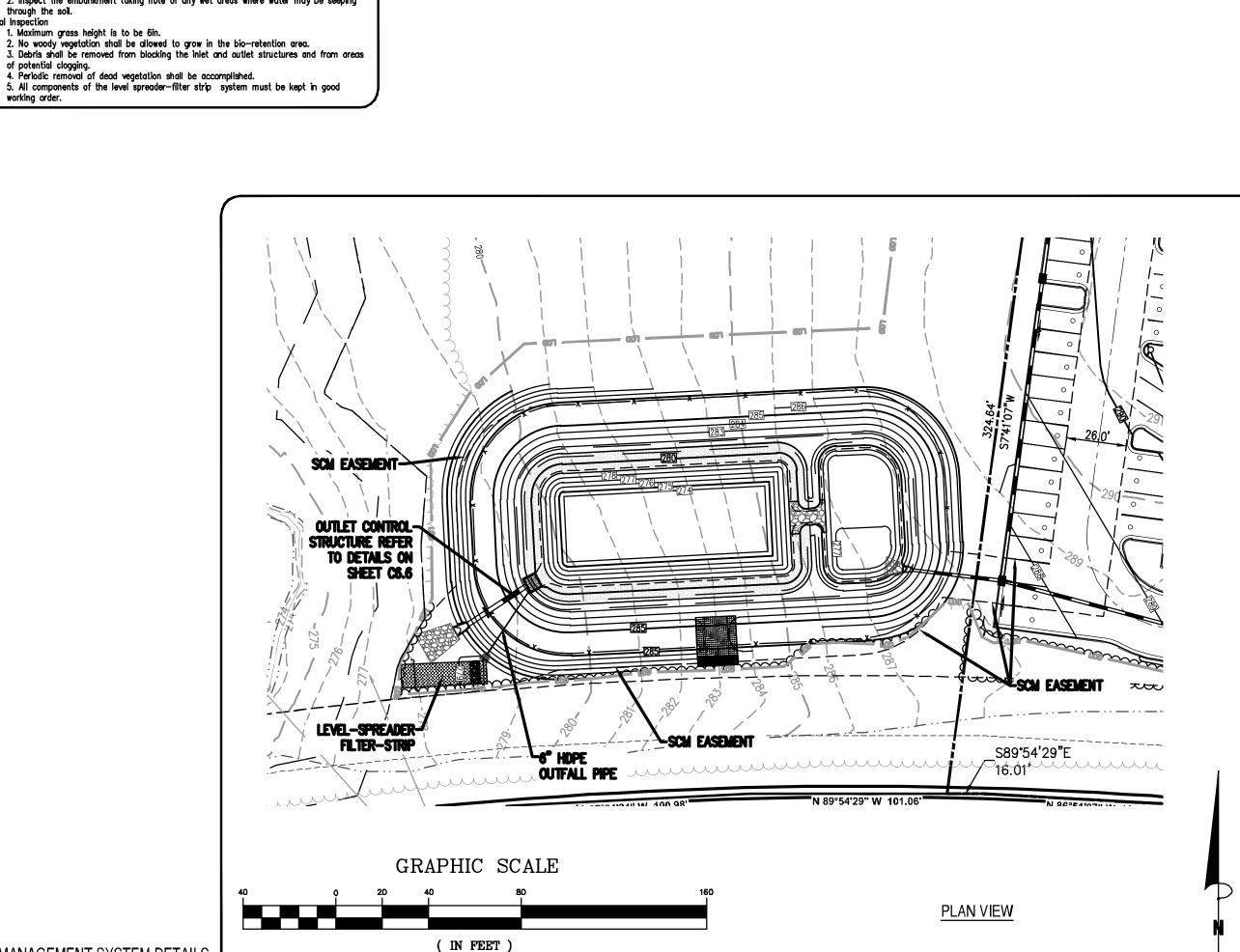
1. Remove accumulated sediment from the bottom of the outlet structure or other areas

2. Inspect the embankment taking note of any wet areas where water may be seeping

3. Debris shall be removed from blocking the inlet and outlet structures and from areas

STORMWATER MANAGEMENT SYSTEM DETAILS NOT TO SCALE





1 inch = 40 ft.

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SCM element:

The entire wetland

The perimeter of

wetland

Inlet device

Forebay

Deep pool, shallow

water and shallow

land areas

Embankment

Micropool

Outlet Structure

Receiving water

MAINTENANCE:

nportant operation and maintenance procedures:

vegetation.

5. Once a year, soil pH will be tested and lime will be added if necessary.

shall be performed as follows. Any problems that are found shall be repaired immediately.

Potential problems

Trash/debris is present.

Areas of bare soil and/or

erosive gullies have formed.

The inlet pipe is clogged (if

The inlet pipe is cracked or

Erosion is occurring in the

the forebay to a depth of less

forebay from functioning well.

Algal growth covers over 30%

of the deep pool and shallow

Cattails, phragmites or other

invasive plants cover 30% of

the deep pool and shallow

The temporary inundation

than 5 days after a storm

zone remains flooded more

Plants are dead, diseased or

Sediment has accumulated

An annual inspection by an

shows that the embankment

appropriate professional

Evidence of muskrat or

beaver activity is present.

Sediment has accumulated

of the original design depth.

Clogging has occurred.

Erosion or other signs of

Immediately after the FS is established, grass will be watered twice weekly if needed until the plants become

Stable groundcover will be maintained in the drainage area to reduce the sediment to the LS—FS.

Every two weeks during the growing season, the FS will be mowed. Turf grass should not be cut shorter than 4—6

inches and may be allowed to grow as tall as 12 inches depending on aesthetic requirements (NIPC, 1993).

Once a year, the soil will be aerated if necessary and the FS will be reseeded to maintain a dense growth of

For the first two years after the LS-FS is established, it will be inspected quarterly and within 24 hours after every

storm event greater than 1.0 inch (or 1.5 inches if in a Coastal County). After two years of successful performance, the LS-FS will be inspected quarterly. Records of operation and maintenance will be kept in a known set location and

If the soil in the FS becomes compacted, consider coring to alleviate this condition. Use a device that removes soil cores. Coring should be accomplished when the lawn is actively growing so that it can recover from any injury. Core cool—season grasses in fall or early spring. Core warm—season grasses in late spring or early summer. Some lawn care and landscape companies offer coring service if rental equipment is not available. Inspection and maintenance

in the receiving water.

damage have occurred at the

and reduced the depth to 75%

the deep pools.

the embankment.

needs repair.

than 15" or that inhibits the

Erosion has occurred.

Weeds are present.

water areas.

water areas.

swale (if applicable).

otherwise damaged (if

applicable).

applicable).

How to remediate the problem

Regrade the soil if necessary to

remove the gully, and then plant a

ground cover and water until it is

established. Provide lime and a

Unclog the pipe. Dispose of the

sediment in a location where it will not

cause impacts to streams or the SCM.

Regrade the swale if necessary

devices such as reinforced turf

matting or riprap to avoid future

if possible. Remove the sediment

where it will not cause impacts to

protection such as reinforced turf

and provide erosion control

Search for the source of the

and dispose of it in a location

Provide additional erosion

matting or riprap if needed to

prevent future erosion problems.

Remove the weeds, preferably by

hand. If a pesticide is used, wipe it

on the plants rather than spraying.

Consult a professional to remove

Remove the invasive plants by hand

or by wiping them with pesticide

(do not spray) – consult a

Unclog the outlet device

Determine the source of the

etc. Remedy the problem and

ground cover if necessary.

streams or the SCM.

Search for the source of the

problem: soils, hydrology, disease,

replace plants. Provide a one-time

fertilizer application to establish the

sediment and remedy the problem

where it will not cause impacts to

If tree is <6" in diameter, remove

diameter, consult a dam safety

Consult a professional to remove

if possible. Remove the sediment

where it will not cause impacts to

Dispose of the sediment off-site.

Repair the damage and improve the

muskrats or beavers and repair

Search for the source of the sediment and remedy the problem

and dispose of it in a location

Clean out the outlet device.

specialist to remove the tree.

Make all needed repairs.

any holes or erosion.

streams or the SCM.

flow dissipation structure.

The outlet device is damaged Repair or replace the outlet device.

Discharges from the wetland are causing erosion or sedimentation

Contact the local NCDQ Regional Office.

professional.

immediately.

and reduced the depth to 75% if possible. Remove the sediment of the original design depth of and dispose of it in a location

A tree has started to grow on the tree. If the tree is >6" in

and control the algal growth.

problems with erosion.

streams or the SCM.

Sediment has accumulated in sediment and remedy the problem

one-time fertilizer application.

Repair or replace the pipe.

Remove the trash/debris.

TRACTOR SUPPLY COMPAN

VAGEMENT

MAN

STORMWATER

Supply ghway 26² ractor US Hig n, NC

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PLAN STATUS 10/23 | 1ST CD SUBMISSION 20/23 2ND CD SUBMISSION

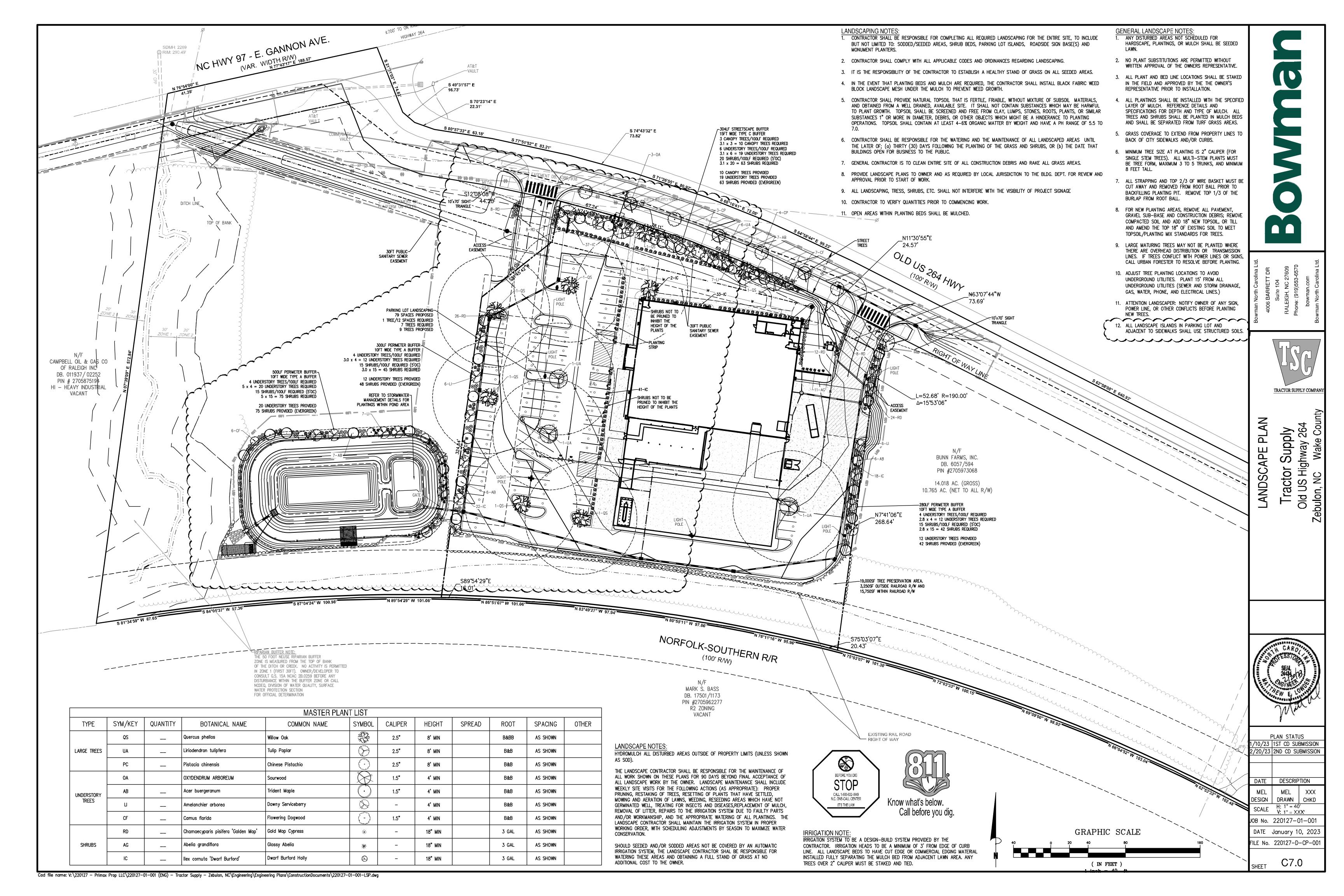
DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD H: 1" = XXX' SCALE V: 1" = XXX' JOB No. 220127-01-001

DATE January 10, 2023

FILE No. 220127-D-CP-00

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SHEET





October 14, 2022 Project Location | **Zebulon, NC.** A

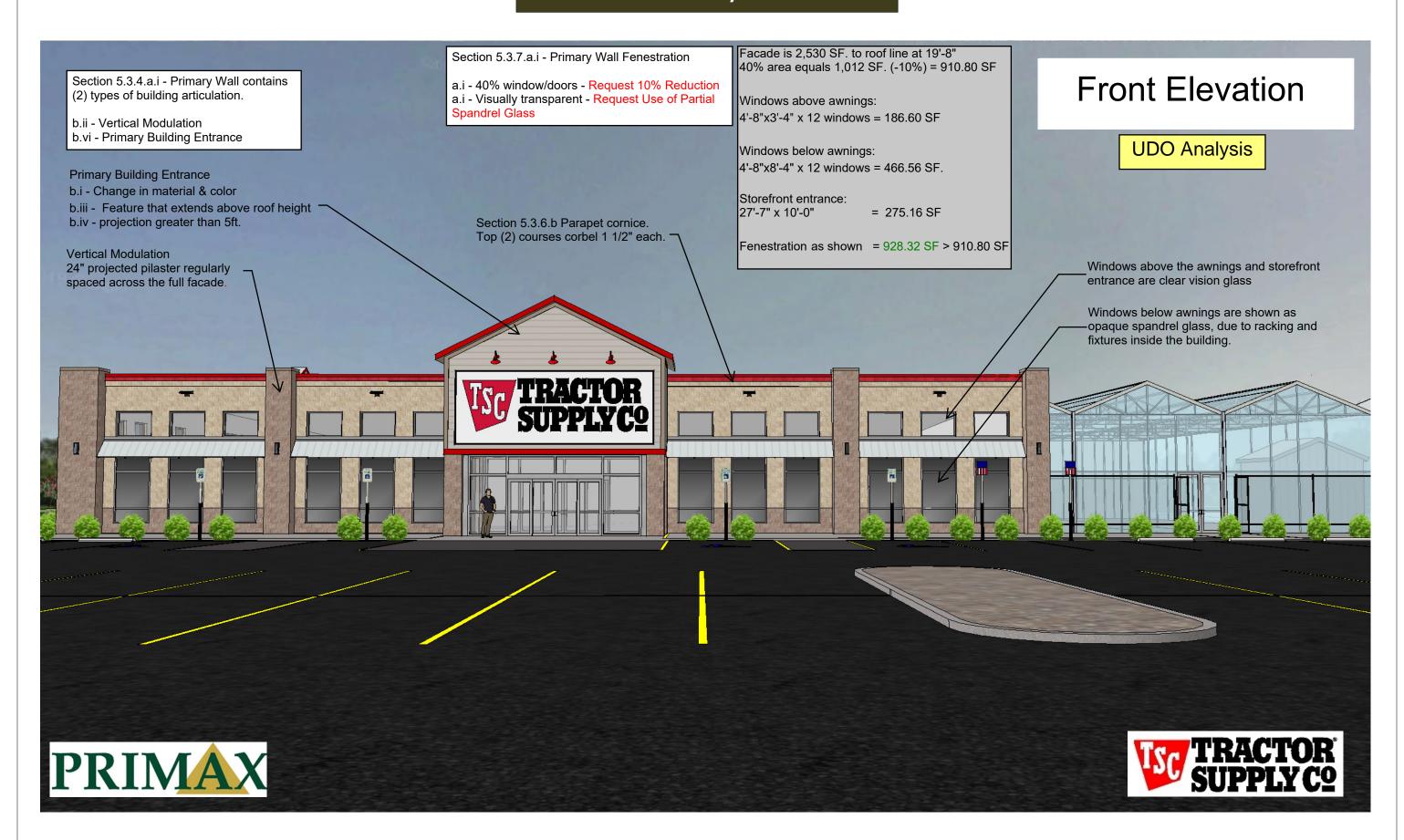






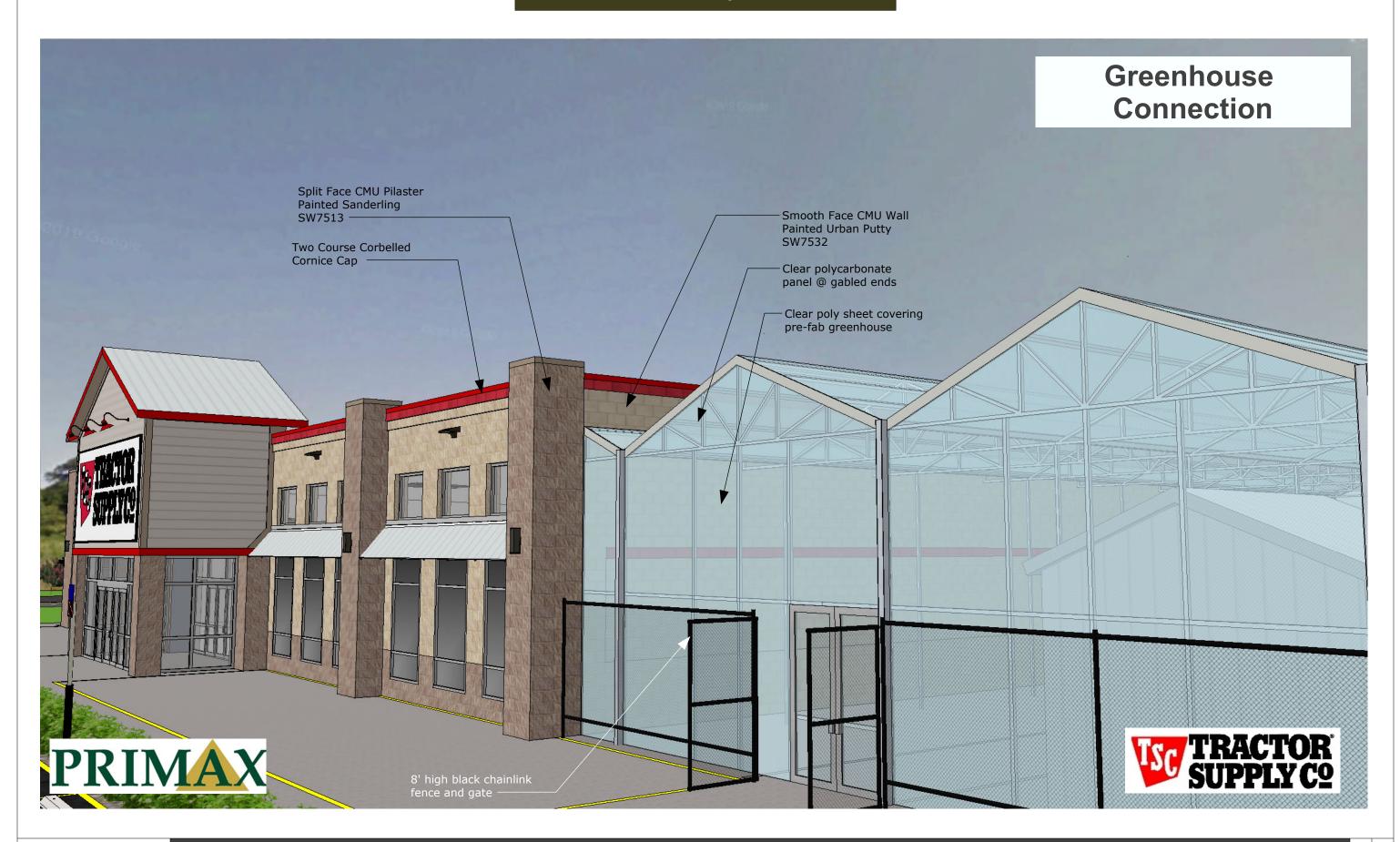


October 14, 2022 Project Location | Zebulon, NC.

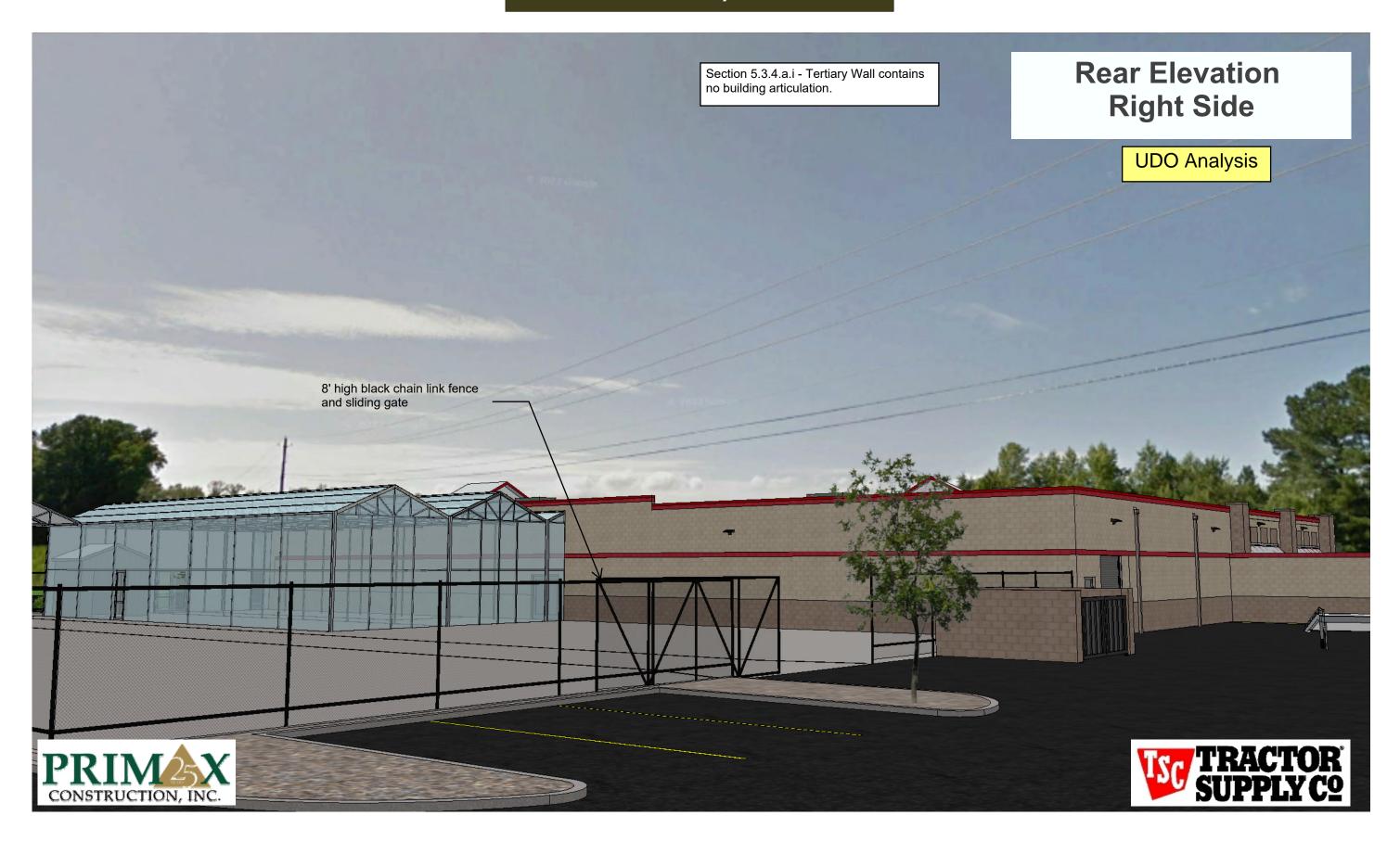


October 14, 2022 Project Location Zebulon, NC.



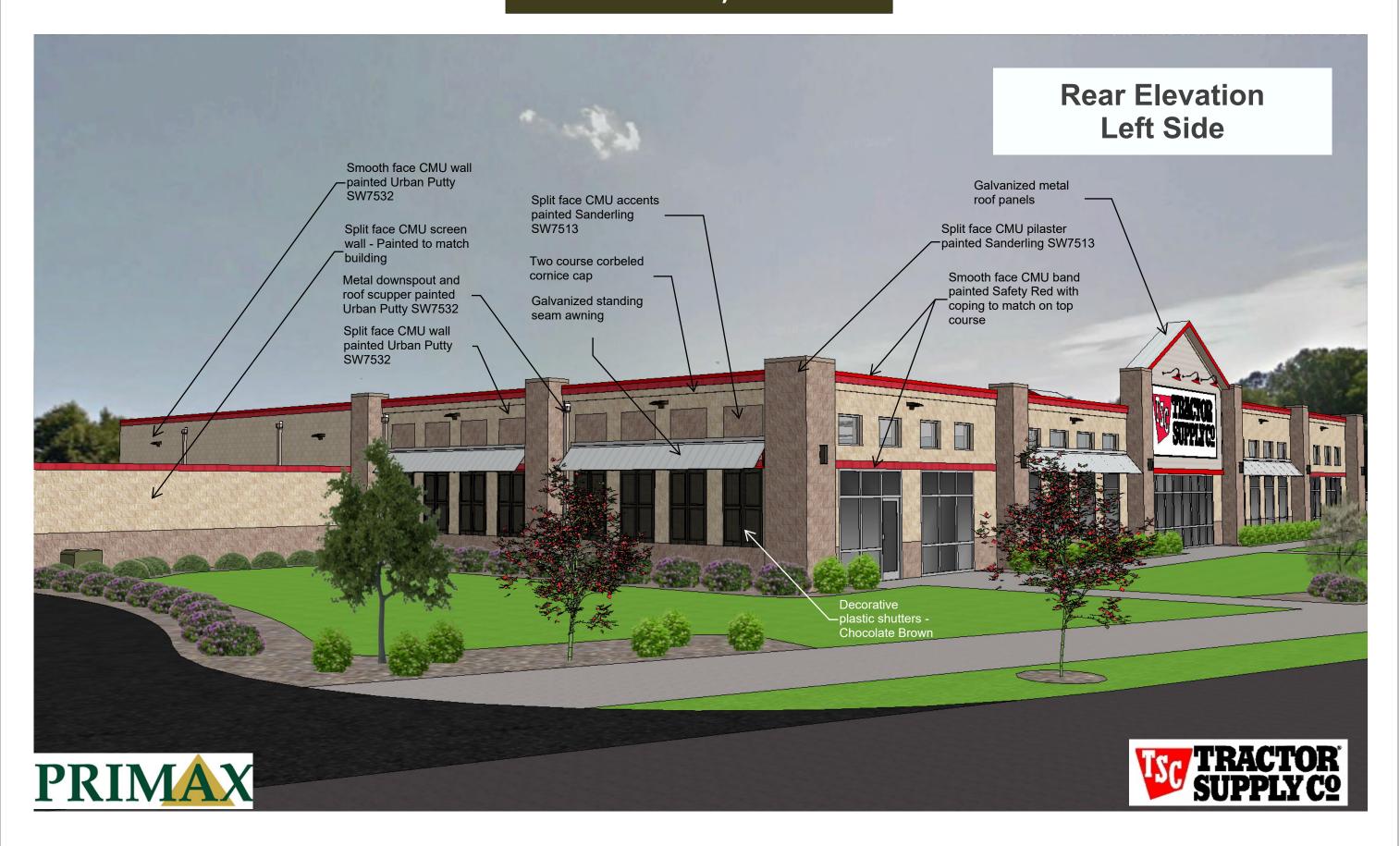








October 14, 2022 Project Location | Zebulon, NC.

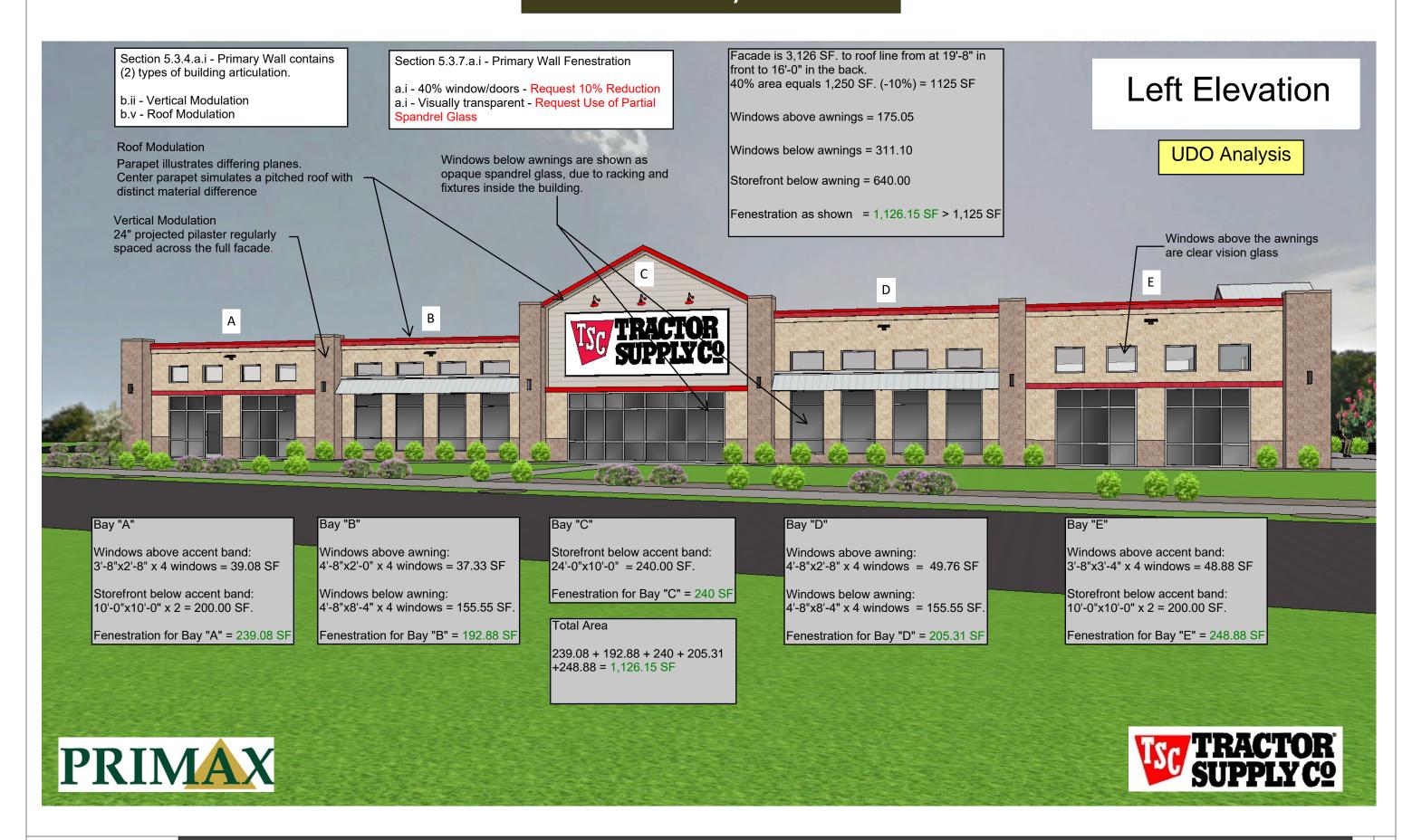


October 14, 2022 Project Location Zebulon, NC.



October 14, 2022 Project Location | **Zebulon, NC.** A

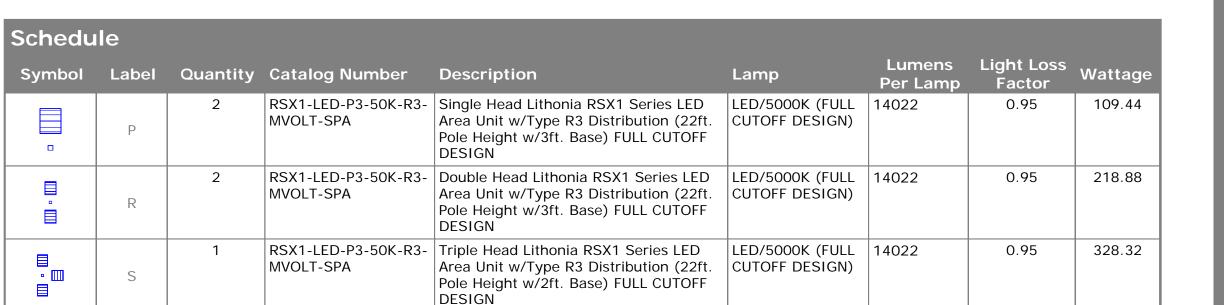




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Unit w/Type T3M Distribution (18ft. and CUTOFF DESIGN)

RSX1-LED-P3-50K-R3- Quad Head Lithonia RSX1 Series LED

CUTOFF DESIGN

H-15118-97/HL-AHD- Hi-Lite H15118 Series LED Goosneck

27"97/21/LED2/40/D/ Unit (21.5ft. Mounting Height) Red

MVOLT-SPA

DDBXD

-50K-T3M-MVOLT-

· •

K @ 14

 $^{+}1.6$ $^{+}2.3$ $^{+}2.4$ $^{+}2.0$ $^{+}$ 1.9 || $^{+}$ 2.7 $^{+}1.9$ || $^{+}$ 2.4 $^{+}$ 1.7 || $^{+}$ 0.9 || $^{+}$ 0.6 || $^{+}$ 0.4

 $^{+}1.1$ $^{+}1.3$ $^{+}1.5$ $^{+}1.5$ $^{+}1.7$ $^{+}1.7$ $^{+}1.8$ $^{+}1.7$ $^{+}1.3$ $^{+}0.9$ $^{+}0.5$ $^{+}0.4$ $^{+}0.3$ $^{+}0.2$

 $^{+}0.7$ $^{+}0.8$ $^{+}1.0$ $^{+}0.9$ $^{+}0.9$ $^{+}0.9$ $^{+}0.9$ $^{+}0.9$ $^{+}0.9$ $^{+}0.9$ $^{+}0.9$ $^{-}0.2$

0.1 0.1 0.2 0.5 +0.8

0 0

K @ 14'

100 to 00 to

K @ 14'

K @ 14 + 1.7 + 2.0

1.8 + 1.5 + 1.5 + 1.9

+2.5 +2.0 +1.2 +1.2 +1.2 +0.5

⁺1.7 / ⁺2.5

⁺3.2 ⁺2.3 ⁺1.9

0.6 +1.0 +1.4 +1.5 +1.6 +1.7 +1.8 +1.9 +2.2 +2.6

1.4 1.6 +2.1 +2.2 +2.0 +1.8 +1.9 +1.9 +1.9 +2.2 K @ 28'

 $^{+}1.0$ $^{+}1.5$ $^{+}1.6$ $^{+}1.8$ $^{+}1.9$ $^{+}1.9$ $^{+}1.7$ $^{+}1.7$ $^{+}1.9$ $^{+}2.2$ $^{+}2.6$ $^{+}3.1$

+1.6 +1.9 +2.2 +2.4 +2.3 +1.9 +1.8 +2.1 +2.5 **K1** 0 21.5 +4 t

 $^{+}1.9$ $^{+}2.5$ $^{+}3.3$ $^{+}4.0$ $^{+}3.3$ $^{+}2.5$ $^{+}2.1$ $^{+}2.5$ $^{+}2.5$ $^{+}3.6$ $^{-}2.5$

+1.3 +2.0 +2.8 +4.2 +4.6 +4.6 +3.2 +2.2 +3.9 +1.9 +2.3 +3.9

 $\begin{vmatrix} +1.4 & +1.8 & +2.1 & +2.7 & +3.2 & +2.8 & +2.3 & +2.0 & +1.6 & +1.7 & +2.2 & +2.6 \end{vmatrix}$

0.6 +1.0 +1.5 +1.7 +1.8 +1.7 +1.6 +1.7 +1.5 +1.4 +1.5

 $^{+}0.9$ $^{+}1.7$ $^{+}2.4$ $^{+}2.9$ $^{+}3.1$ $^{+}3.1$ $^{+}2.8$ $^{-}2.5$ $^{+}2.3$ $^{+}1.9$ $^{+}1.3$ $^{+}1.0$ $^{+}0.8$

[†]2.2 / [†]1.6 [†]1.3

⁺4.8 ⁺3.2 | ⁺2/2 | ⁺1.6 | ⁺1.5 | | [†]1.6 |

Area Unit w/Type R3 Distribution (22ft.

DSXW1-LED-10C-1000-Lithonia DSXW1 Series Wall Mount LED LED/5000K (FULL 3898

Pole Height w/2ft. Base) FULL CUTOFF

14ft. Fixture Mounting Heights) FULL

Finish (FULL CUTOFF DESIGN)

Statistics										
Description	Symbol	Avg	Max	Min	Max/Avg	Max/Min	Avg/Min			
Parking Lot Light Levels	+	1.9 fc	11.8 fc	0.1 fc	6.21	118.0:1	19.0:1			
Property Line Light Levels	+	0.3 fc	1.6 fc	0.0 fc	5.33	N/A	N/A			

LED/5000K (FULL | 14022

LED/4000K (FULL | 1170

CUTOFF DESIGN)

CUTOFF DESIGN)



437.76

38.8

0.95

0.95

Tractor Supply Co - Zebulo Parking Lot Lighting Lay

0

Designer
Adam Carrier
Date
02/08/2023
Scale
Not to Scale
Drawing No.

Summary