WAKE COUNTY NOTES

FINAL ZONING AND SITE IMPROVEMENT INSPECTION SHALL BE REQUIRED TO VERIFY SITE PLAN COMPLIANCE BE DONE BEFORE

OFTERIORATED OR DEAD SCREENING SHALL BE REPAIRED OR REPLACED WITHIN SIX MONTHS

NO PERMANENT CONSTRUCTION CAN OCCUR WITHIN BUFFER YARDS

EPTIC TANKS, SEPTIC DRAIN LINES ARE PROHIBITED IN REQUIRED BUFFERYARD

STORMWATER RETENTION AND DETENTION FACILITIES, STORAGE TANKS FOR ANY PURPOSE, UTILITY SUBSTATIONS, AND 3 BUILDING HOUSING UTILITY SUBSTATIONS AND BUILDINGS HOUSING UTILITY COMMODITIES OR EQUIPMENT ARE ALSO PROHIBITED IN REQUIRED BUFFFRYARDS.

SITE SITE

CONSTRUCTION DOCUMENTS

Proposed Rocket Wash

Project ID# 796479

N. Arendell Avenue & Hendricks Drive

Zebulon, North Carolina

Wake County

CURRENT PROPERTY OWNERS

Speedway, LLC

Property Tax Department

539 S. Main Street

Findlay, OH 45840

DEVELOPER

Bell Commercial
Attn. Baker Bell
120 Wind Chime Court
Raleigh, NC 27615
(919) 803-8169
baker@bellcommercial.com

CIVIL ENGINEER

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

IMPERVIOUS SUMMARY TABLE ON-SITE AREA = 429,809 SF (9.867 AC)BUILDINGS 2,880 SF 0.67 % OF AREA 0.07 ACRES **PAVEMENT** 41,610 SF 0.96 ACRES 9.68 % OF AREA 4,510 SF 0.10 ACRES 10.49 % OF AREA TOTAL IMPERVIOUS AREA 49,000 SF 11.40 % OF AREA 1.12 ACRES GREEN/OPEN SPACE 380,809 SF 8.74 ACRES 88.60 % OF AREA 3,604 SF EXISTING IMPERVIOUS AREA 0.08 ACRES 0.84 % OF AREA 45,396 SF INCREASE IN IMPERVIOUS AREA 1.04 ACRE

DEVELO	OPMENT DATA
DEVELOPMENT NAME:	ROCKET EXPRESS
STREET ADDRESS:	N. ARENDELL AVENUE
	ZEBULON, NC WAKE COUNTY
	PROJECT ID# 796479
	2705-09-1833, 2706-00-2456,
PROPERTY IDENTIFICATION #(PIN):	2706-00-3318, 2706-00-3279,
DDODEDTY #-	2706-00-4241 0111170, 0030085, 0057144, 0058906,
PROPERTY #:	0039956
DEED BOOK/PAGE:	12474-2357
EXISTING ZONING:	HC-HEAVY COMMERCIAL
WATERSHED DISTRICT:	NONE NONE
FLOOD ZONE:	NONE
FLOOD ZONE.	NONE
TOTAL SITE ACRES:	429,809 SF (9.87 AC)
INSIDE TOWN LIMITS:	YES
EXISTING USE:	VACANT
PROPOSED BUILDING USE:	CAR WASH AND OUTPARCELS
PROPOSED TOTAL BUILDING AREA:	2,880 SF (CAR WASH)
MAX BUILDING HEIGHT:	50 FT
MIN LOT AREA:	6,000 SF
MIN LOT WIDTH:	50 FT
MAX. LOT COVERAGE:	80%
FRONT SETBACK:	30 FT
SIDE SETBACK(STREET);	30 FT
SIDE SETBACK(INTERIOR):	0, 5 FT IF PROVIDED
REAR SETBACK:	O IF ABUTTED BY AN ALLEY, OTHERWISE 25FT
PARKING REQUIREMENTS:	ZUI I
TOTAL REQUIRED:	2 PER WASH BAY
TOTAL PROVIDED:	25 (22 VACUUM SPACES + 3 EMPLOYEE SPACES)
ACCESIBLE SPACES PROVIDED:	1
LOADING AREA:	1 PROVIDED
STACKING SPACES:	3 REQUIRED, 9 PROVIDED
BICYCLE SPACES:	2 REQUIRED, 2 PROVIDED
LANDSCAPE BUFFERS:	10FT TYPE A BUFFER (ADJACENT HC) 15FT STREETSCAPE BUFFER

UTILITY SERVICE NOTES LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS. CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540 "POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4° DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION. PROGRESS ENERGY TELEPHONE: 800-636-0581 "TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL WIRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION. TELEPHONE: GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" SCHEDULE 40 PVC FROM SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL). CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540 GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING. TELEPHONE:

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED EROSION CONTROL SSTORMWATER MGMT. SFLOOD STUDY SDATE ENVIRONMENTAL CONSULTANT SIGNATURE

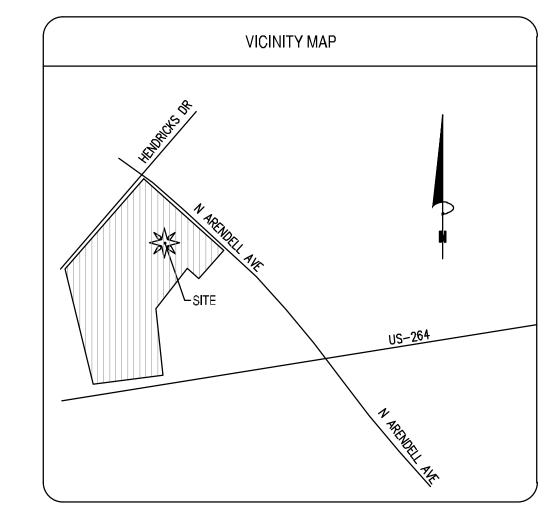
PUBLIC Water Distribution/Extension System The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W Authorization to Construct See digital signature

Sewer Collect	PUBLIC ion/Extension System
, •	nection and extension of the City's public sewer system id construction methods used for this project shall
•	tions of the City's Public Utilities Handbook.
•	· •

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

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.

as a result of this notification failure.







RECONSTRUCTION NOTE
PRE-CONSTRUCTION MEETING IS REQUIRED WITH
IE TOWN OF ZEBULON CONSTRUCTION INSPECTOR.
DITACT JASON AT 919-790-5640.

Sheet Number	Sheet Title	
C1.0	COVER SHEET	
C1.1	GENERAL NOTES, ABBERVIATIONS, AND LEG	
C2.0	DEMOLITION PLAN	
C2.1	EROSION CONTROL PLAN - INITIAL	
C2.2	EROSION CONTROL PLAN — FINAL	
C2.3	EROSION CONTROL NOTES	
C2.4	NORTH CAROLINA GENERAL PERMIT (NCGO	
C3.0	SITE PLAN	
C3.1	ROADWAY	
C4.0	GRADING & DRAINAGE PLAN	
C5.0	UTILITY PLAN	
C5.1	SANITARY SEWER PLAN AND PROFILE	
C6.0	EROSION CONTROL DETAILS	
C6.1	EROSION CONTROL DETAILS	
C6.2	CONSTRUCTION DETAILS	
C6.3A	CONSTRUCTION DETAILS	
C6.3B	CONSTRUCTION DETAILS	
C6.3C	CONSTRUCTION DETAILS	
C6.3D	CONSTRUCTION DETAILS	
C6.3E	ROADWAY CONSTRUCTION TYPICAL SECTION	
C6.4A	SEWER DETAILS	
C6.4B	SEWER DETAILS	
C6.4C	SEWER DETAILS	
C6.5	WATER DETAILS	
C6.6	STORMWATER MANAGEMENT DETAILS	
C6.7	STORMWATER MANAGEMENT DETAILS	
C6.8	STORMWATER MANAGEMENT DETAILS	
C7.0	LANDSCAPE PLAN	
A-1.0	OVERALL BUILDING LAYOUT	
A-1.1	OVERALL LAYOUT - UPPER STORY	
A-2.0	ELEVATIONS	
A-2.1	ELEVATIONS	
ES-1	SITE LIGHTING PHOTOMETRIC PLAN	
ES-2	SITE LIGHTING FIXTURES	
ES-3	SITE LIGHTING FIXTURES	

4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570
bowman.com

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CONSTRUCTION



PLAN STATUS
6/20/22 SITE PLAN SUBMITTAL
10/21/22 PER TOWN REVIEW
4/28/23 PER TOWN REVIEW
7/07/23 WAKE COUNTY SUBMISSION

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H:
V:

JOB No. 220094-01-002
DATE June 20, 2022

FILE No. 220097-01-002

C1.0

WATER SURFACE ELEVATION

WATER VALVE

TRANSFORMER

YARD INLET YEAR

CROSSING

GENERAL NOTES (CONT.)

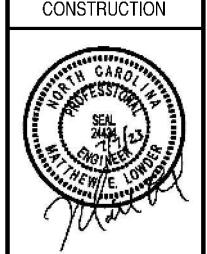
- 41. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, 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.

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PLAN STATUS /22|SITE PLAN SUBMIT 1/21/22|PER TOWN REVIEW 4/28/23 | PER TOWN REVIEW WAKE COUNTY SUBMI DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD $H \cdot 1'' = XXX'$ SCALE DATE June 20, 2022

C1.

SHEET

Cad file name: V:\220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-NTS.dwg

IRON PIPE FOUND

IRON PIPE SET IRRIGATION

JUNCTION BOX

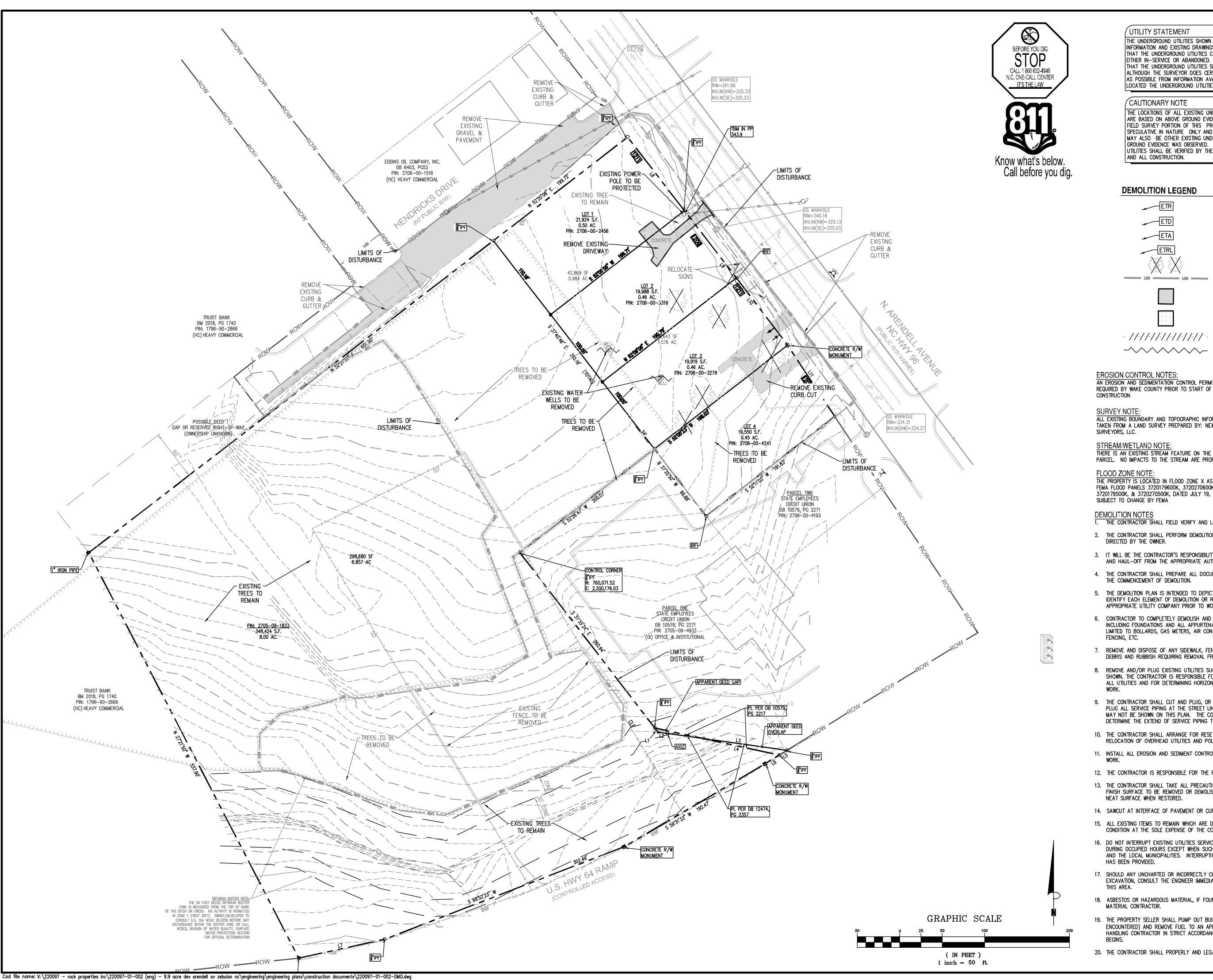
JOINT

1. THIS IS A STANDARD SHEET. THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND

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.

NOT BE USED ON THE PROJECT.



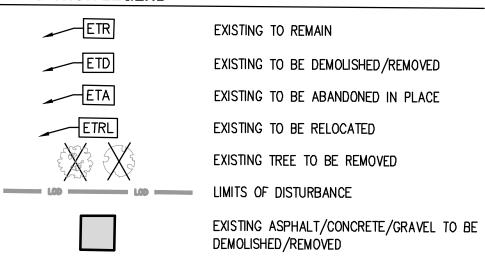
UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAUTIONARY NOTE

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON ABOVE GROUND EVIDENCE OR INFORMATION GATHERED DURING THE FIELD SURVEY PORTION OF THIS PROJECT. AS SUCH, THIS INFORMATION IS SPECULATIVE IN NATURE ONLY AND SHOULD NOT BE CONSTRUED AS FACT. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY AND ALL CONSTRUCTION.

DEMOLITION LEGEND



TO BE DEMOLISHED/REMOVED · //·//·//·// EXISTING CURB AND GUTTER TO BE REMOVED -______ EXISTING UTILITY TO BE REMOVED

EXISTING BUILDING OR STRUCTURE

EROSION CONTROL NOTES: AN EROSION AND SEDIMENTATION CONTROL PERMIT SHALL BE

ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: NEWCOMB LAND

STREAM/WETLAND NOTE: THERE IS AN EXISTING STREAM FEATURE ON THE PROPOSED PARCEL. NO IMPACTS TO THE STREAM ARE PROPOSED

FLOOD ZONE NOTE THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FEMA FLOOD PANELS 3720179600K, 3720270600K, 3720179500K, & 3720270500K, DATED JULY 19, 2022. MAPS

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
- 2. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY THE OWNER.
- 3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES.
- 4. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO
- THE COMMENCEMENT OF DEMOLITION. 5. THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO
- IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.
- 6. CONTRACTOR TO COMPLETELY DEMOLISH AND DISPOSE OF OFFSITE IN A LAWFUL MANNER EXISTING BUILDINGS, INCLUDING FOUNDATIONS AND ALL APPURTENANCES LOCATED ON AND AROUND THE PROPERTY INCLUDING BUT NO LIMITED TO BOLLARDS, GAS METERS, AIR CONDITIONING UNITS, SIGNS, CURBS, SIDEWALKS, ELECTRIC METERS,
- 7. REMOVE AND DISPOSE OF ANY SIDEWALK, FENCES, STAIRS, WALLS, FOUNDATIONS, CONDUITS, LIGHT POLE BASES, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED LANDFILL.
- 8. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING
- 9. THE CONTRACTOR SHALL CUT AND PLUG. OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR MAIN, AS REQUIRED, OR AS OTHERWISE NOTED. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTEND OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED.
- 10. THE CONTRACTOR SHALL ARRANGE FOR RESETTING OF CURB BOXES, VALVE BOXES AND REMOVAL AND/OR RELOCATION OF OVERHEAD UTILITIES AND POLES WITH THE APPROPRIATE UTILITY COMPANY.
- 11. INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION
- 12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- 13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACE. FINISH SURFACE TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A NEAT SURFACE WHEN RESTORED.
- 14. SAWCUT AT INTERFACE OF PAVEMENT OR CURB TO REMAIN. SAWCUT EXISTING PAVEMENT.
- 15. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 16. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- 17. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN
- 18. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.
- 19. THE PROPERTY SELLER SHALL PUMP OUT BUILDING FUEL, GREASE TRAPS, AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY AN APPROPRIATELY LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS BEFORE CONSTRUCTION BEGINS.
- 20. THE CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF OF THE SITE.

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PLAN

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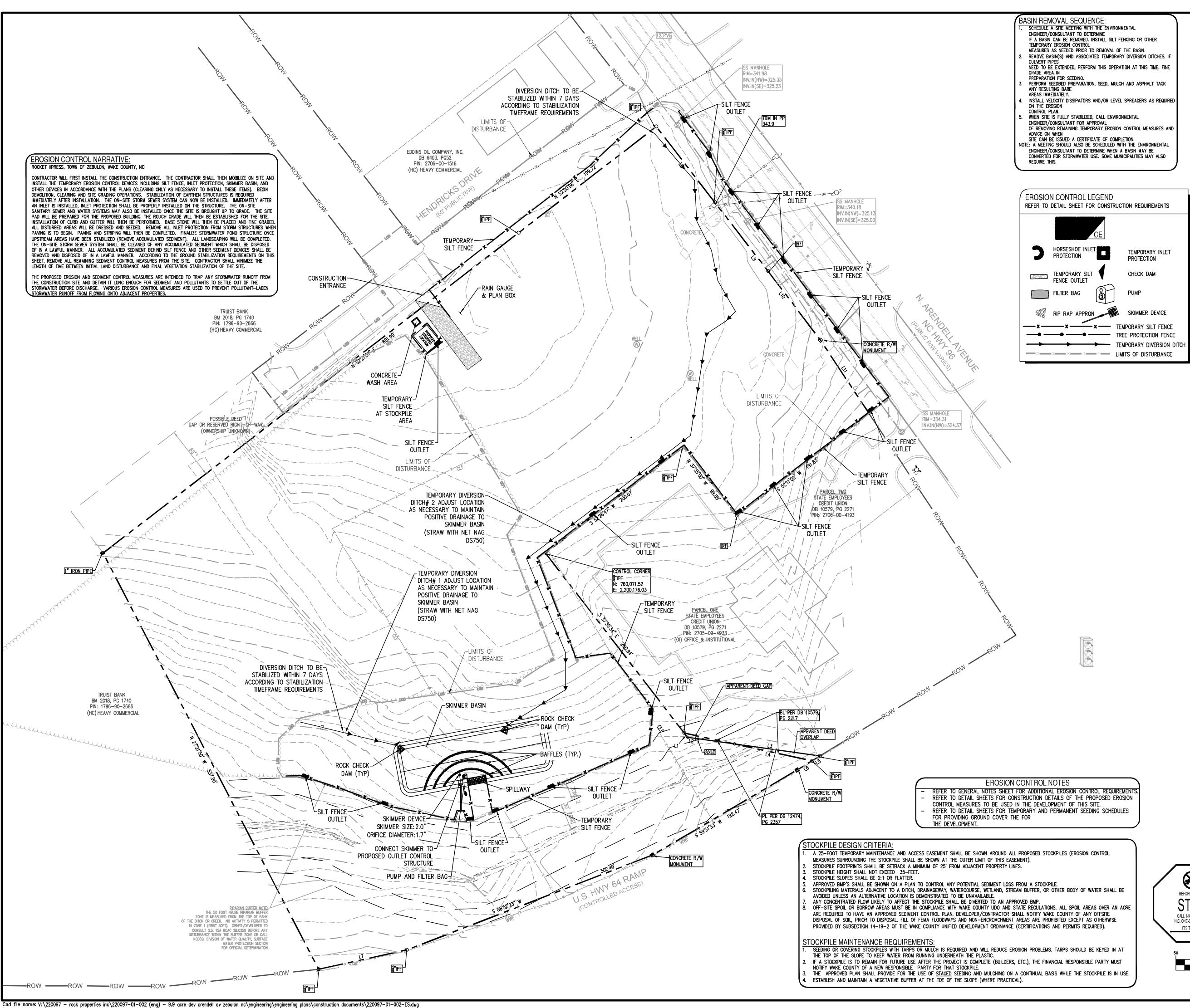
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∑İSITE PLAN SUBMIT /22 PER TOWN REVIEW -/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

PLAN STATUS



STABILIZATION TIMEFRAME SITE AREA TIMEFRAME STABILIZATION DESCRIPTION **EXCEPTIONS** BASIN & TEMPORARY IMMEDIATELY DIVERSION DITCHES PERIMETER DIKES, SWALES, DITCHES AND 7 DAYS SLOPES HIGH QUALITY WATER 7 DAYS (HQW) ZONES IF SLOPES ARE 10' OR LESS SLOPES STEEPER THAN IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED DAYS FOR SLOPES GREATER SOPES 3:1 OR FLATTER | 14 DAYS THAN 50FT IN LENGTH ALL OTHER AREAS WITH NONE, EXCEPT FOR | SLOPES FLATTER THAN | 14 DAYS PERIMETERS AND HQW ZONES

GROUND COVER REQUIREMENTS:

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

> NOTE TO CONTRACTOR: EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

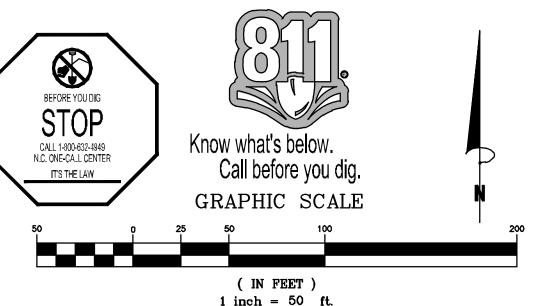
WAKE COUNTY CONSTRUCTION SEQUENCE: 1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A LAND-DISTURBING PERMIT.

- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- 3. CALL **Karyn Pageau with wake county at 919–796–8769** for an onsite inspection BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- I. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- . INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENUDED AREAS WITHIN NPDES STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY PHASE OF
- CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION CONTROL PHASES OF DEVELOPMENT AND FOR THE REMOVAL OR CONVERSION OF SEDIMENT AND EROSION CONTROL MEASURES.
- WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY. CALL Karyn Pageau with wake county at 919-796-8769 for an inspection by the
- 10. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW
- . WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY TH WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A CERTIFICATE OF COMPLETION.

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 ÓF MEASURES.

CONTROL INSPECTOR OF THE LOCATION OF ANY OFF-SITE BORROW SOURCE OR OFF-SITE WASTE MATERIAL DISPOSAL SITE. OFF-SITE DISTURBANCES COUN towards the overall project disturbed area and must be covered by the PERMIT FOR THIS PROJECT AND/OR THE PERMIT FROM ANOTHER ACTIVE WAKE county or nodeo 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

> CONSTRUCTION NOTE ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS



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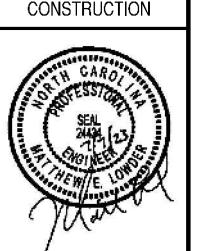
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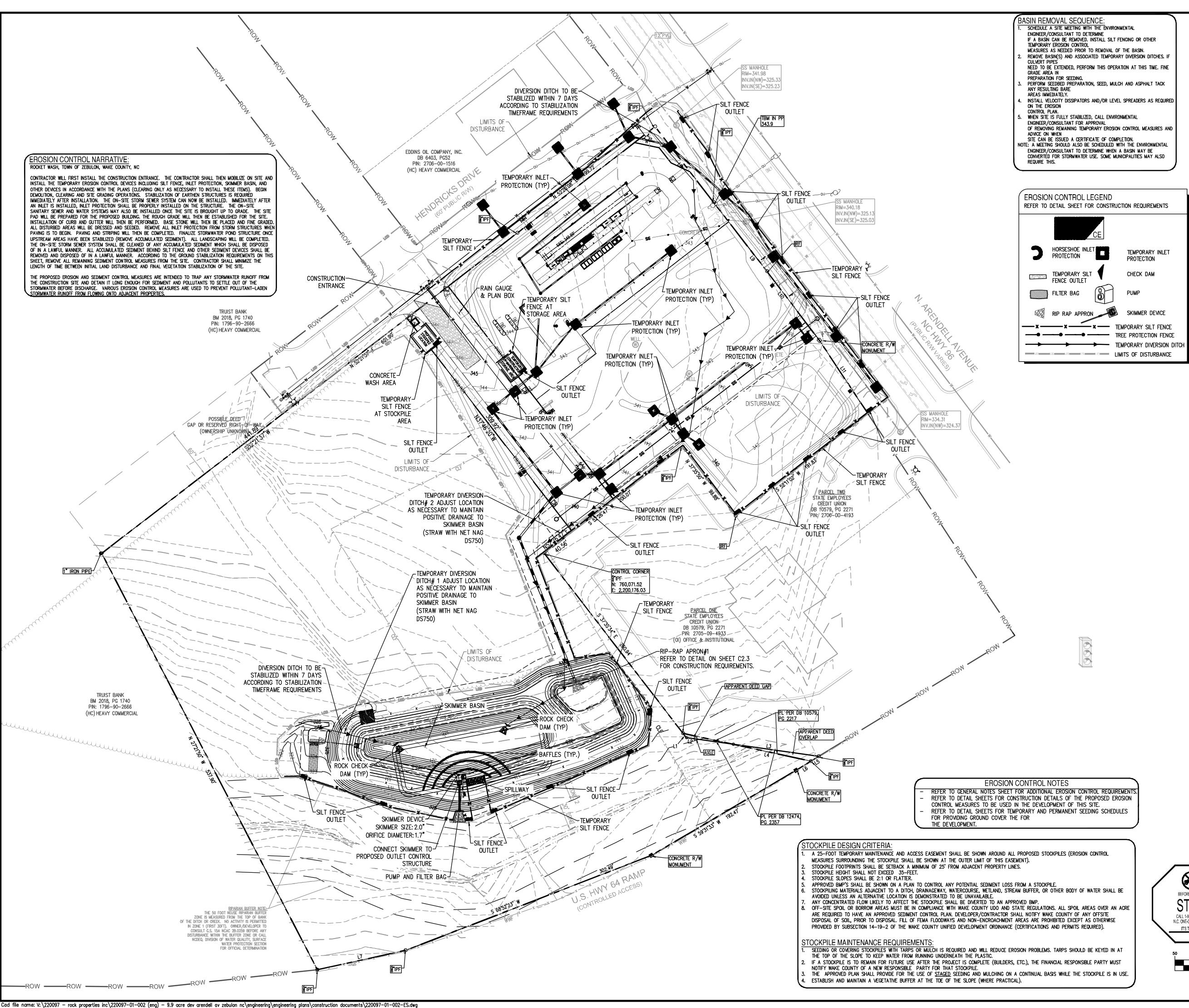


PLAN STATUS 22 SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 | PER TOWN REVIEW WAKE COUNTY SUBMIS DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

C2.1

WAKE COUNTY OR NCDEQ PERMITS.

1 inch = 50 ft.



STABILIZATION TIMEFRAME SITE AREA TIMEFRAME STABILIZATION DESCRIPTION **EXCEPTIONS** BASIN & TEMPORARY IMMEDIATELY DIVERSION DITCHES PERIMETER DIKES, SWALES, DITCHES AND 7 DAYS SLOPES HIGH QUALITY WATER 7 DAYS (HQW) ZONES SLOPES STEEPER THAN ARE ALLOWED SOPES 3:1 OR FLATTER 14 DAYS THAN 50FT IN LENGTH ALL OTHER AREAS WITH NONE, EXCEPT FOR | SLOPES FLATTER THAN | 14 DAYS

GROUND COVER REQUIREMENTS:

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER. DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING

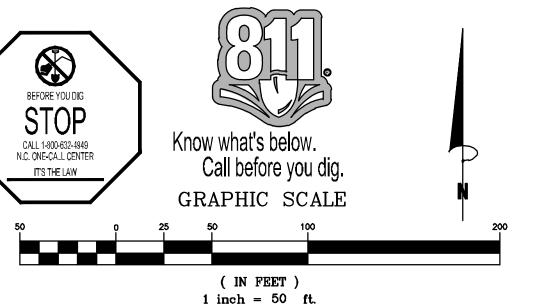
> NOTE TO CONTRACTOR: EROSION CONTROL MEASURES TO

WAKE COUNTY CONSTRUCTION SEQUENCE: 1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, KARYN

- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- 3. CALL **Karyn Pageau with wake county at 919–796–8769** for an onsite inspection
- I. BEGIN CLEARING AND GRUBBING, MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- . INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE
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CONSTRUCTION NOTE ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS



IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS DAYS FOR SLOPES GREATER PERIMETERS AND HQW ZONES

CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

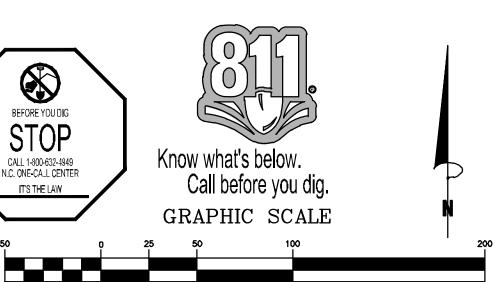
BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A LAND-DISTURBING PERMIT.

- BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION SEDIMENT AND EROSION CONTROL MEASURES.
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PLAN STATUS 22 SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 | PER TOWN REVIEW WAKE COUNTY SUBMIS DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

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 = 5.50 ACRES TOTAL SITE AREA = 9.87 ACRES
- SOIL TYPE = RAWLINGS—RION COMPLEX AND WEDOWEE SANDY LOAM
- 2. 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
- 3. 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.
- 4. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- 5. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- 6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.

18. 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;

ROCKET CARWASH, TOWN OF ZEBULON, WAKE COUNTY, NC

THE WRITTEN PERMISSION OF THE OWNER.

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. THAT MAY BE REQUIRED.
- 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 SYSTEM.
- 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
- 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 INSPECTIORS 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.

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

6. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE.

RALEIGH, NC 276
Phone: (919)553-6
bowman.com
Bowman North Carolir

Wake Cou

Rocket Wash Arendell Ave

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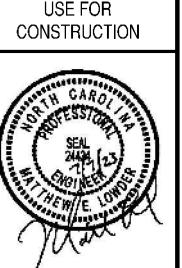
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PRELIMINARY

DO NOT



10/21/22 PER TOWN REVIEW
4/28/23 PER TOWN REVIEW
7/07/23 WAKE COUNTY SUBMISSION

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H: N/A V: N/A
JOB No. 220094-01-002
DATE June 20, 2022

FILE No. 220094-01-002

PLAN STATUS
0/22 SITE PLAN SUBMIT

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Cad file name: V:\220097 — rock properties inc\220097—01—002 (eng) — 9.9 acre dev arendell av zebulon nc\engineering\engineering plans\construction documents\220097—01—002—ES.dwg

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PLAN STATUS

)/22|SITE PLAN SUBMIT

21/22 PER TOWN REVIEW

4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE | DESCRIPTION MEL MEL DESIGN | DRAWN | CHKD SCALE V: N/A

DATE June 20, 2022

SHEET

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCCO1 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCGO1 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 STABI	LIZATION			
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 7 slopes		None		
(b) High Quality Water (HQ 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 flatte than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope		

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

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in Temporary Stabilization Permanent Stabilization

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

surrounded by secondary containment structures.

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 grea for containment of treated Stormwater before discharging offsite. Store flocculants in leak-proof containers that are kept under storm-resistant cover or

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. l. 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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

or disposal center that handles these materials.

Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site

- to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. . Cover waste containers at the end of each workday and before storm events or provide 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. 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

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 licensed
- sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

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

ONSITE CONCRETE WASHOUT —CLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN.) SECTION A-A NOTES: 1. ACTUAL LOCATION DETERMINED IN FIELD ACTUAL LOCATION DETERMINED IN FIELD

THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES

75% OF THE STRUCTURES CAPACITY. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW CRADE WASHOUT STRUCTURE NOT TO SCALE

CONCRETE WASHOUTS

Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solic

2. 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.

INCHES OF FREEBOARD.

MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES
75% OF THE STRUCTURES CAPACITY TO PROVIDE

ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

- waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place to 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. local standard details are not available, use one of the two types of temporary concrete
- 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
- 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. Posi 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. 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of

ERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Raingauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend of holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those un attended days land this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded a "zero." The permittee may use another rain-monitoring device approved by the Division.
Z E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure. 6. Description, evidence, and date of corrective actions taken.
3 Stormwater discharge outfalls SDOs	At least once per 7 calendar days and within 24 hours of a rain event ≥ 10 inch in 24 hours	Date and time of the discharge outfalls inspected, Date and time of the inspection, Rame of the person performing the inspection, Sudence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Sudence of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
4 Perimeter of Site	At least once per 7 calendar days and within 24 hours of a rain event > 10 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to comfol future releases.
5 Streams or wetlands onsite on offsite Imhere accessible	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)[a] of this permit of this permit.
ibi Ground stabilization measures	After each phase of grading	1. The phase of grading linstallation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover! 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soonas possible.

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

locations, dimensions and relative elevations | and sign an inspection report that lists each shown on the approved E850 Plan. 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 nstallation.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

Bocumentation Requirements

Initial and date each E&SC Measure on a copy

of the approved E&SC Plan or complete, date

pertaining to the E&SC plan shall be kept on site and available for inspection at all times during

the E&SC Measures are modified after initial Initial and date a copy of the approved E&SC (b) A phase of grading has been completed. Plan or complete, date and sign an inspection eport to indicate completion of the construction phase. Initial and date a copy of the approved E&SC (c) Ground cover is located and installed in accordance with the approved E&SC Plan or complete, date and sign an inspection eport to indicate compliance with approved around cover specifications. (d) The maintenance and repair omplete, date and sign an inspection report. requirements for all E&SC Measures have been performed. (e) Corrective actions have been taken Initial and date a copy of the approved E&SC. to E&SC Measures. Plan or complete, date and sign an inspection. eport to indicate the completion of the

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

Item to Document

(a) Each E&SC Measure has been installed

and does not significantly deviate from the

2. Additional Documentation to be Kept on Site

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

corrective action.

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

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically—available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

i. Documentation to be Retained for Three Years

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

SELF-INSPECTION, RECORDKEEPING AND 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

with the conditions

health or the

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	Within 24 hours, an oral prefectionic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated	A report at least ten days before the date of the bypass, if possible. The second shall include a least ten days before the date of the bypass, if possible.

bypasses [40 CFR] The report shall include an evaluation of the anticipated quality and 122.41(m)(3)] effect of the bypass. Within 24 hours, an oral or electronic notification. bypasses [40 CFR Within 7 calendar days, a report that includes an evaluation of the 122.41(m)(3)] quality and effect of the bypass. (e) Noncompliance

Within 24 hours, an oral or electronic notification.

case-by-case basis.

of this permit that noncompliance, and its causes; the period of noncompliance, may endanger including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to environment[40] continue; and steps taken or planned to reduce, eliminate, and CFR 122.41(I)(7)] prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a

Within 7 calendar days, a report that contains a description of the

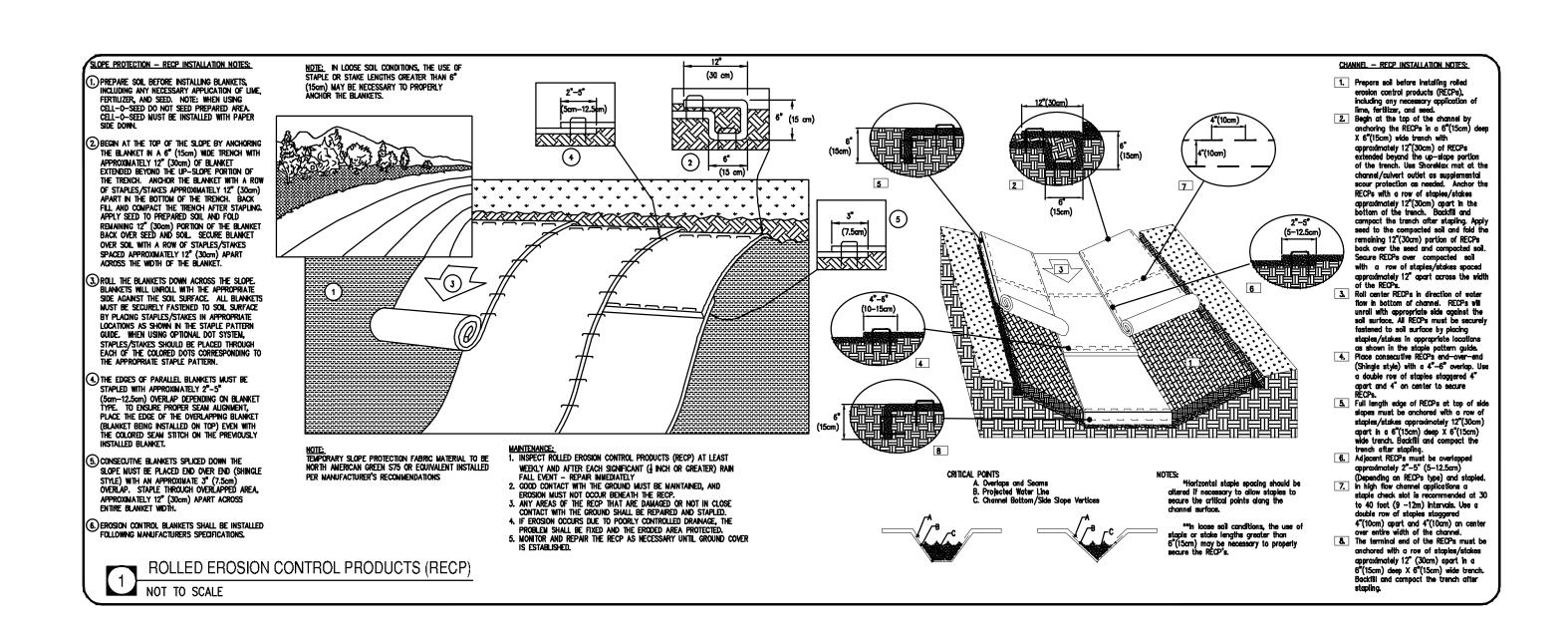
PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

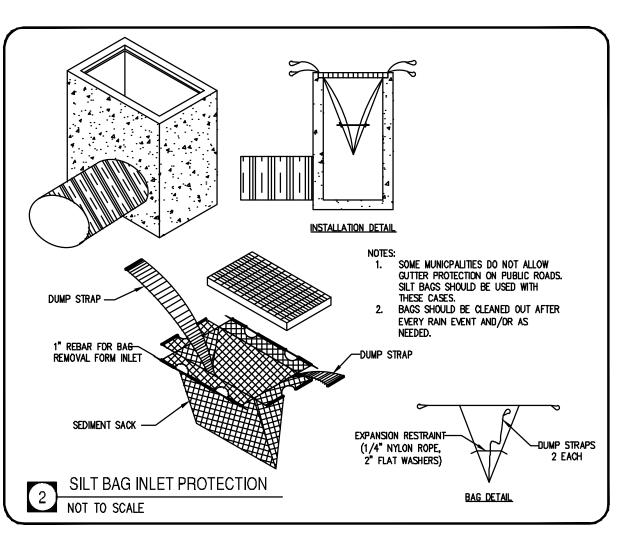
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw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

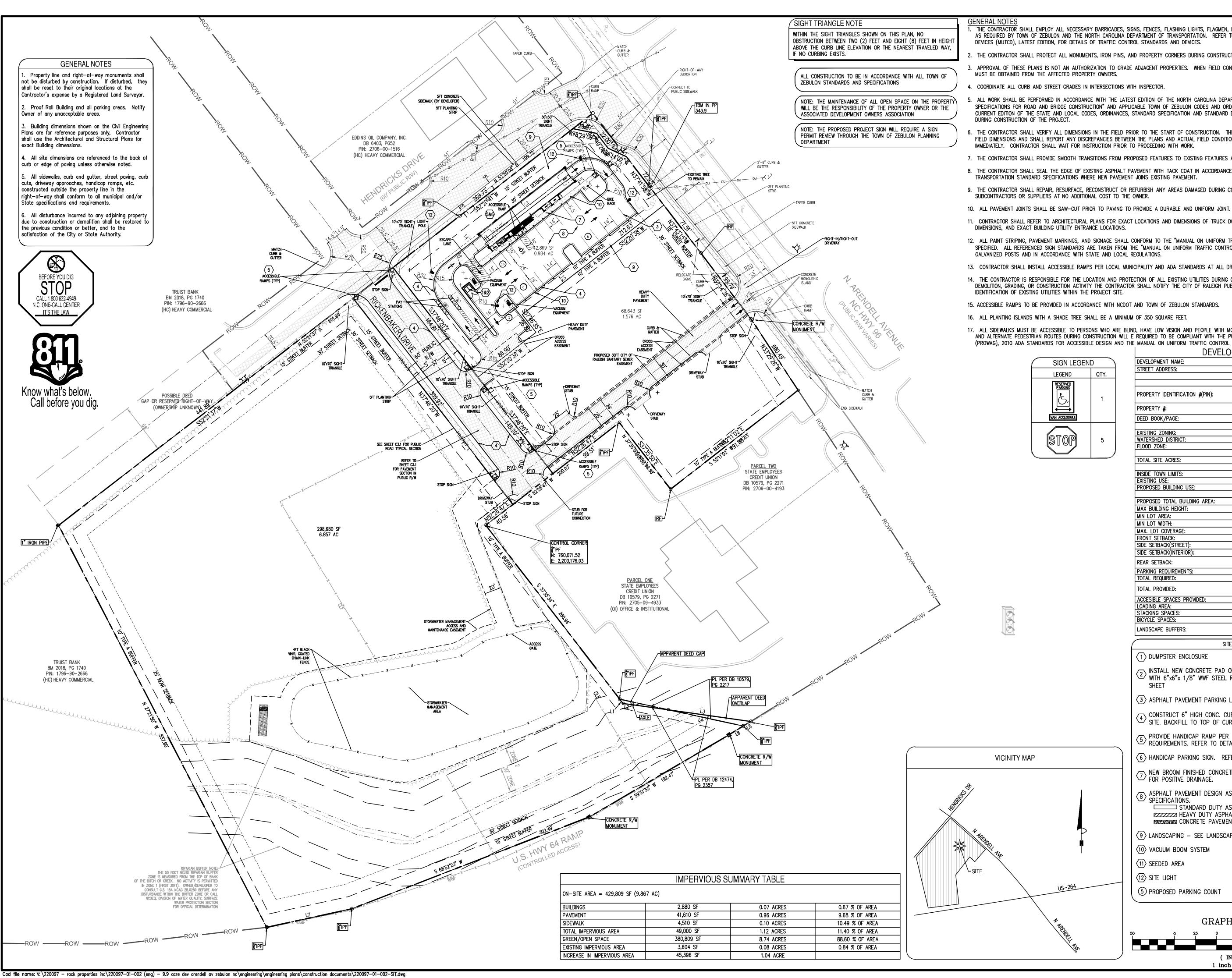
- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.
- (b) The non-surface withdrawal has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







THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, FLAGMEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC

AS REQUIRED BY TOWN OF ZEBULON AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, FOR DETAILS OF TRAFFIC CONTROL STANDARDS AND DEVICES.

2. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.

3. APPROVAL OF THESE PLANS IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION

. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "STANDARD DETAILS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND APPLICABLE TOWN OF ZEBULON CODES AND ORDINANCES. THE CONTRACTOR SHALL MAINTAIN A CURRENT EDITION OF THE STATE AND LOCAL CODES, ORDINANCES, STANDARD SPECIFICATION AND STANDARD DETAILS ON THE PROJECT SITE FOR REFERENCE

- 6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS THE OWNER OR OWNER'S REPRESENTATIVE
- 7. THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM PROPOSED FEATURES TO EXISTING FEATURES AS NECESSARY.
- 8. THE CONTRACTOR SHALL SEAL THE EDGE OF EXISTING ASPHALT PAVEMENT WITH TACK COAT IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF
- 9. THE CONTRACTOR SHALL REPAIR, RESURFACE, RECONSTRUCT OR REFURBISH ANY AREAS DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, HIS
- 11. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF TRUCK DOCKS, EXIT DOORS, SIDEWALKS, PRECISE BUILDING
- 12. ALL PAINT STRIPING, PAVEMENT MARKINGS, AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS OTHERWISE SPECIFIED. ALL REFERENCED SIGN STANDARDS ARE TAKEN FROM THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL NEW SIGNS SHALL BE MOUNTED ON
- 13. CONTRACTOR SHALL INSTALL ACCESSIBLE RAMPS PER LOCAL MUNICIPALITY AND ADA STANDARDS AT ALL DRIVE AND BUILDING LOCATIONS AS REQUIRED.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENTS FOR PROPER
- 15. ACCESSIBLE RAMPS TO BE PROVIDED IN ACCORDANCE WITH NCDOT AND TOWN OF ZEBULON STANDARDS.
- 16. ALL PLANTING ISLANDS WITH A SHADE TREE SHALL BE A MINIMUM OF 350 SQUARE FEET.
- 17. ALL SIDEWALKS MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL E REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

DEVELO	OPMENT DATA	
DEVELOPMENT NAME:	ROCKET EXPRESS	
STREET ADDRESS:	N. ARENDELL AVENUE	
	ZEBULON, NC WAKE COUNTY	
	PROJECT ID# 796479	
	2705-09-1833, 2706-00-2456,	
PROPERTY IDENTIFICATION #(PIN):	2706-00-3318, 2706-00-3279,	
	2706-00-4241 0111170, 0030085, 0057144, 0058906,	
PROPERTY #:	0039956	
DEED BOOK/PAGE:	12474-2357	
BEED BOOKYT HOE.	12474 2007	
EXISTING ZONING:	HC-HEAVY COMMERCIAL	
WATERSHED DISTRICT:	NONE	
FLOOD ZONE:	NONE	
TOTAL SITE ACRES:	429,809 SF (9.87 AC)	
INSIDE TOWN LIMITS:	YES	
EXISTING USE:	VACANT	
PROPOSED BUILDING USE:	CAR WASH AND OUTPARCELS	
PROPOSED TOTAL BUILDING AREA:	2,880 SF (CAR WASH)	
MAX BUILDING HEIGHT:	50 FT	
MIN LOT AREA:	6,000 SF	
MIN LOT WIDTH:	50 FT	
MAX. LOT COVERAGE:	80%	
FRONT SETBACK:	30 FT	
SIDE SETBACK(STREET):	30 FT	
SIDE SETBACK(INTERIOR):	0, 5 FT IF PROVIDED	
REAR SETBACK:	0 IF ABUTTED BY AN ALLEY, OTHERWISE 25FT	
PARKING REQUIREMENTS:		
TOTAL REQUIRED:	2 PER WASH BAY	
TOTAL PROVIDED:	25 (22 VACUUM SPACES + 3 EMPLOYEE	
	SPACES)	
ACCESIBLE SPACES PROVIDED:	1	
LOADING AREA:	1 PROVIDED	
STACKING SPACES:	3 REQUIRED, 9 PROVIDED	
BICYCLE SPACES:	2 REQUIRED, 2 PROVIDED	
LANDSCAPE BUFFERS:	10FT TYPE A BUFFER (ADJACENT HC) 15FT STREETSCAPE BUFFER	
	I IOF I SIREEISCAPE BUFFER	

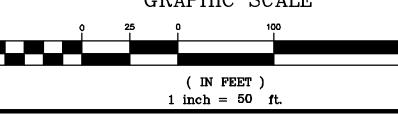
- 1 DUMPSTER ENCLOSURE
- NSTALL NEW CONCRETE PAD OF 4000 PSI BROOM FINISHED CONCRETE WITH 6"x6"x 1/8" WWF STEEL REINFORCEMENT. REFER TO DETAIL

SITE KEYNOTES

- (3) ASPHALT PAVEMENT PARKING LINES 4" WIDE PAINTED WHITE
- CONSTRUCT 6" HIGH CONC. CURB & GUTTER CONTINUOUS AROUND SITE. BACKFILL TO TOP OF CURB. REFER TO DETAIL
- 5 PROVIDE HANDICAP RAMP PER FEDERAL & LOCAL ACCESSIBILITY REQUIREMENTS. REFER TO DETAIL
- (6) HANDICAP PARKING SIGN. REFER TO DETAIL SHEET
- NEW BROOM FINISHED CONCRETE SIDEWALK SLOPED AT $\frac{1}{8}$ /FT. MAX. ✓ FOR POSITIVE DRAINAGE.
- 8 ASPHALT PAVEMENT DESIGN AS PER GEOTECHNICAL REPORT SPECIFICATIONS. STANDARD DUTY ASHPALT PAVEMENT HEAVY DUTY ASPHALT PAVEMENT
- (9) LANDSCAPING SEE LANDSCAPING PLAN.

CONCRETE PAVEMENT

- (10) VACUUM BOOM SYSTEM
- (11) SEEDED AREA
- (12) SITE LIGHT
- 5 PROPOSED PARKING COUNT



GRAPHIC SCALE

Rocket
Arende

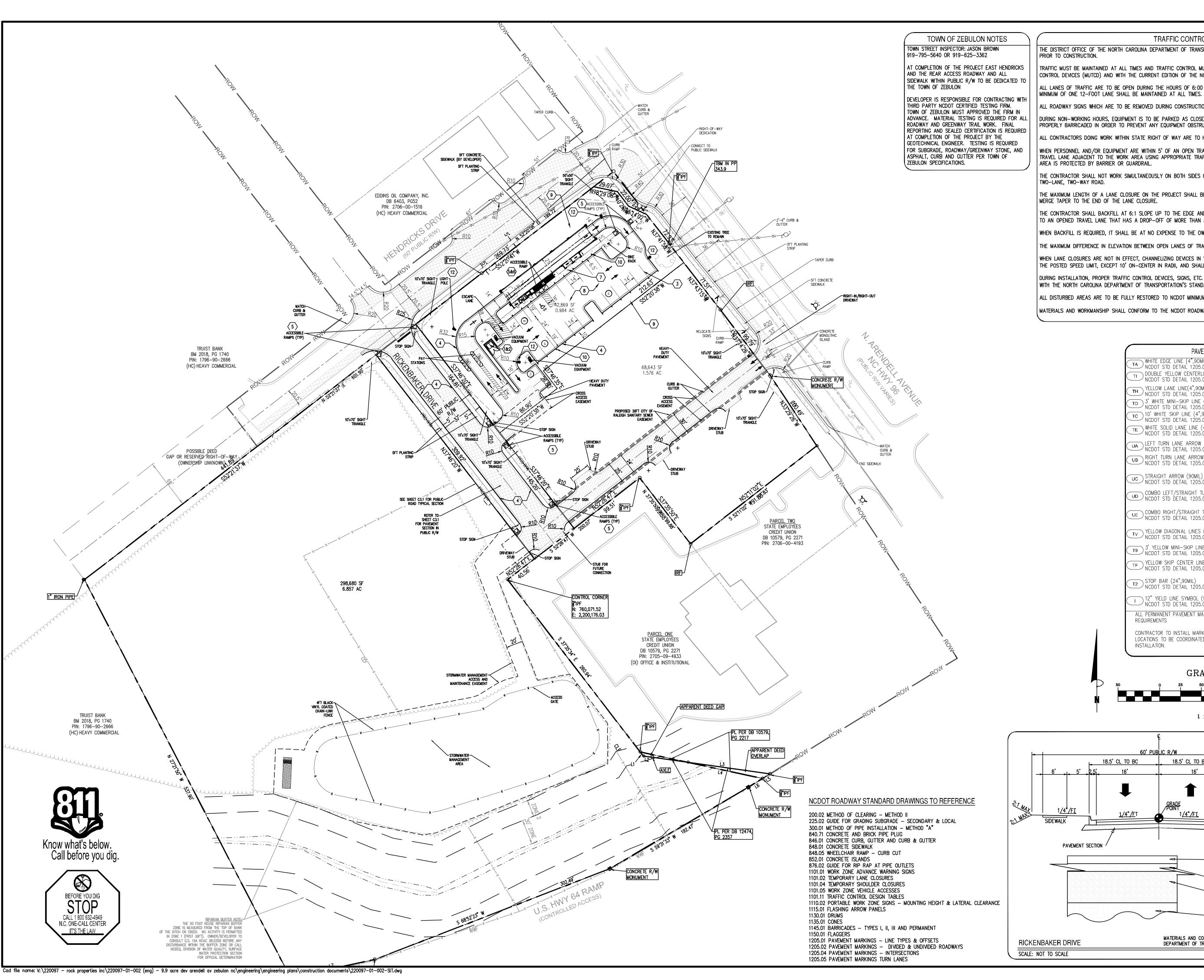
SITE

PRELIMINARY DO NOT USE FOR



PLAN STATUS /22|SITE PLAN SUBMIT 10/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMI DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

C3.0



TRAFFIC CONTROL NOTES

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 STANDARDS AND SPECIFICATIONS.

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

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

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

PROPERLY BARRICADED IN ORDER TO PREVENT ANY EQUIPMENT OBSTRUCTION WITHIN THE TRAVEL LANE.

ALL CONTRACTORS DOING WORK WITHIN STATE RIGHT OF WAY ARE TO HAVE A COPY OF THESE PLANS ON THE JOB SITE.

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 GUARDRAIL.

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 3".

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

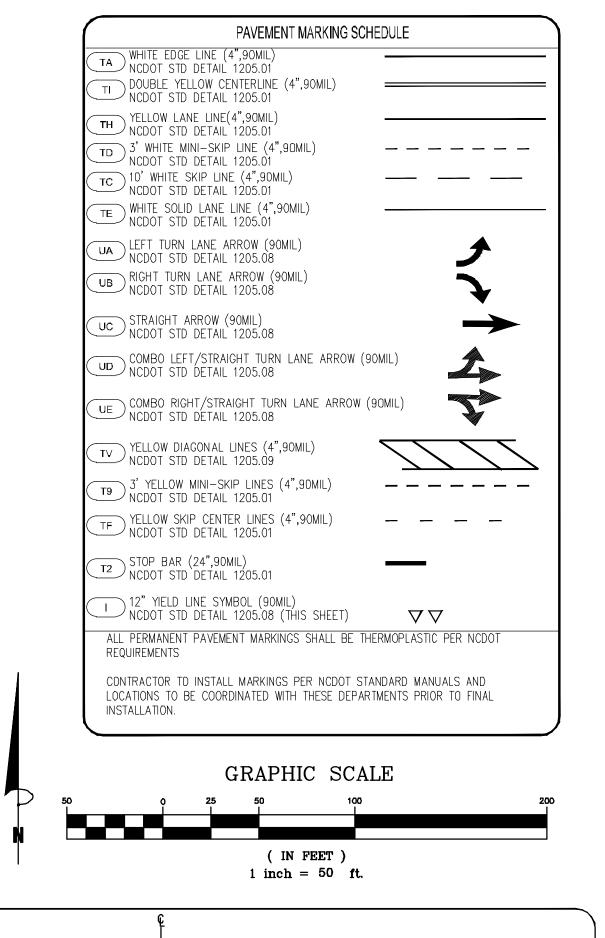
THE MAXIMUM DIFFERENCE IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC SHALL BE 2".

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

ALL DISTURBED AREAS ARE TO BE FULLY RESTORED TO NCDOT MINIMUM ROADWAY STANDARDS.

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



18.5' CL TO BC

PAVEMENT SECTION

SIDEWALK

---- 3.0" ASPHALT WEARING COURSE (S9.5C)

- 4.0" ASPHALT BINDER COURSE (119.0C)

AREAS LESS THAN 6' IN WIDTH

- COMPACTED SUB GRADE

DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, LATEST EDITION

MATERIALS AND CONSTRUCTION REQUIREMENTS PER THE NORTH CAROLINA

10" COMPACTED AGGREGATE BASE OR

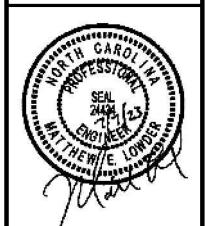
5" ASPHALT BASE COURSE (B25.0C) WHEN WIDENING

Wash Rocket
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Project ID#

DWAY

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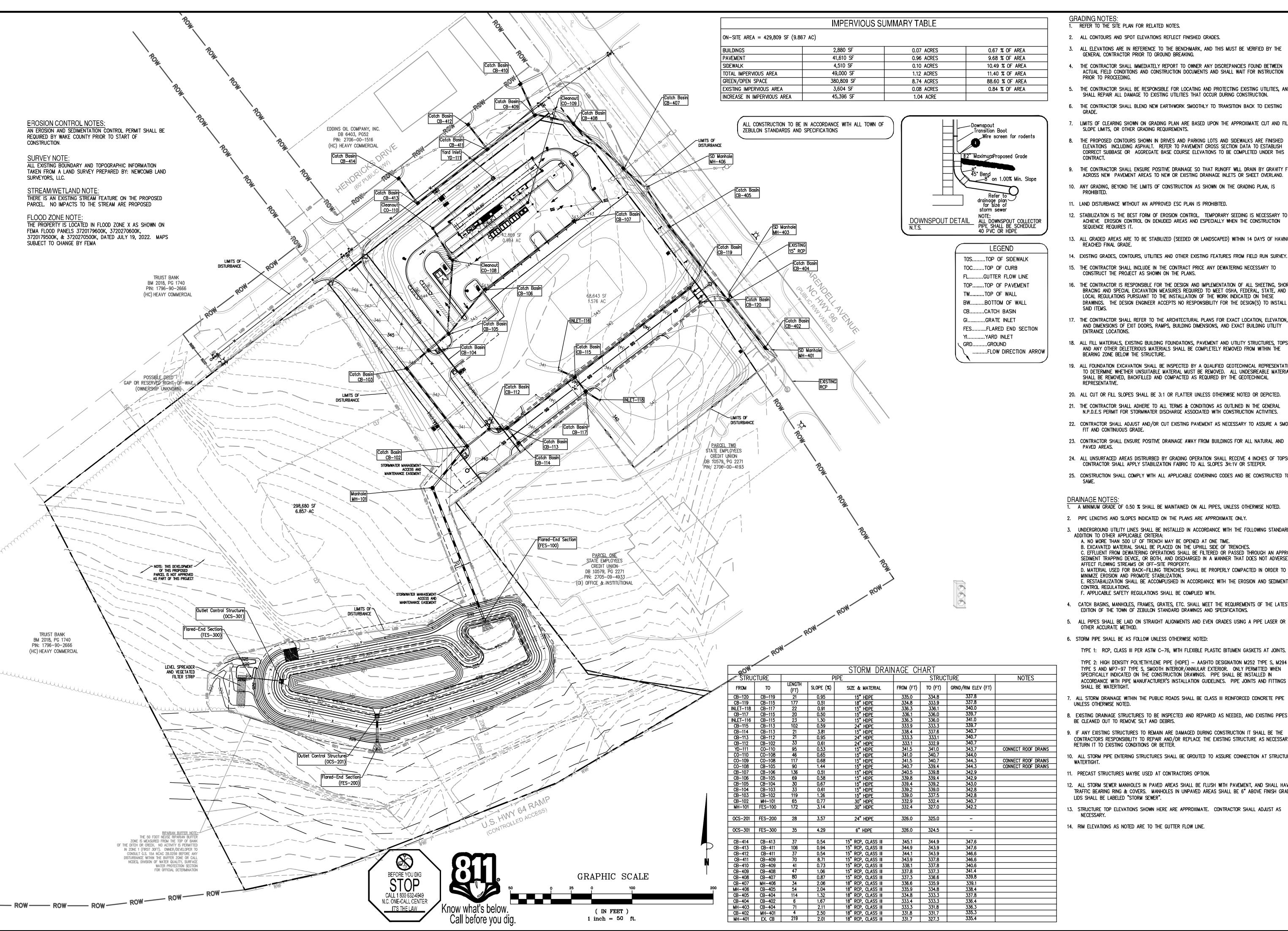
CONSTRUCTION

PLAN STATUS)/22|SITE PLAN SUBMIT /22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS

DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD SCALE

DATE June 20, 2022

C3.1 SHEET



Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-GRP.dwg

- 1. REFER TO THE SITE PLAN FOR RELATED NOTES.
- 2. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
- 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.
- 6. 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 SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
- 8. 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 SEQUENCE REQUIRES IT.
- 13. ALL GRADED AREAS ARE TO BE STABILIZED (SEEDED OR LANDSCAPED) WITHIN 14 DAYS OF HAVING REACHED FINAL GRADE.
- 14. EXISTING GRADES, CONTOURS, UTILITIES AND OTHER EXISTING FEATURES FROM FIELD RUN SURVEY.
- 15. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
- 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 ENTRANCE LOCATIONS.
- 18. 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.
- 19. 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.
- 21. 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 FIT AND CONTINUOUS GRADE.
- 23. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND
- PAVED AREAS.
- 24. ALL UNSURFACED AREAS DISTRURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER.
- 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.
- 3. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN 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 SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY 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 CONTROL REGULATIONS. F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 4. CATCH BASINS, MANHOLES, FRAMES, GRATES, ETC. SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE TOWN OF ZEBULON STANDARD DRAWINGS AND SPECIFICATIONS.
- 5. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 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
- ALL STORM DRAINAGE WITHIN THE PUBLIC ROADS SHALL BE CLASS III REINFORCED CONCRETE PIPE
- B. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE SILT AND DEBRIS.
- 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. LIDS SHALL BE LABELED "STORM SEWER".
- 13. STRUCTURE TOP ELEVATIONS SHOWN HERE ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS
- 14. RIM ELEVATIONS AS NOTED ARE TO THE GUTTER FLOW LINE.

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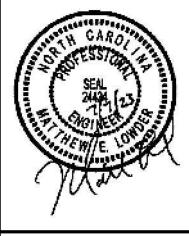
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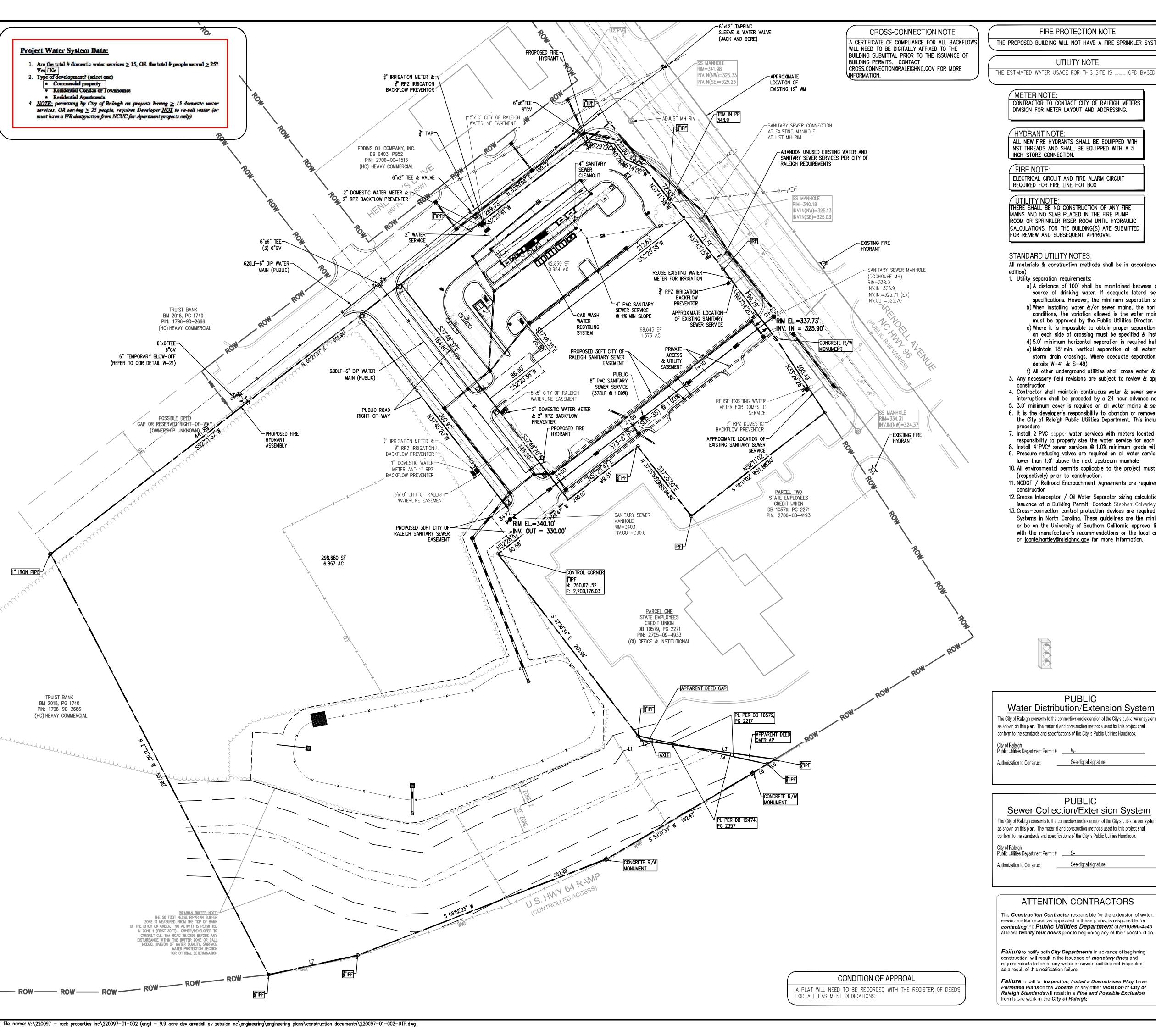
DO NOT USE FOR CONSTRUCTION

PRELIMINARY



PLAN STATUS				
0/22	SITE	PLAN	SUBMITTAL	
21/22	PER	TOWN	REVIEW	
8/23	PER	TOWN	REVIEW	
7/23	WAKE	COUNT	Y SUBMISSION	
ATE	Dŧ	ESCRIF	PTION	
VEL	M	1EL	XXX	
SIGN	DR.	AWN	CHKD	
CALE	H: V:			
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DATE June 20, 2022



FIRE PROTECTION NOTE THE PROPOSED BUILDING WILL NOT HAVE A FIRE SPRINKLER SYSTEM

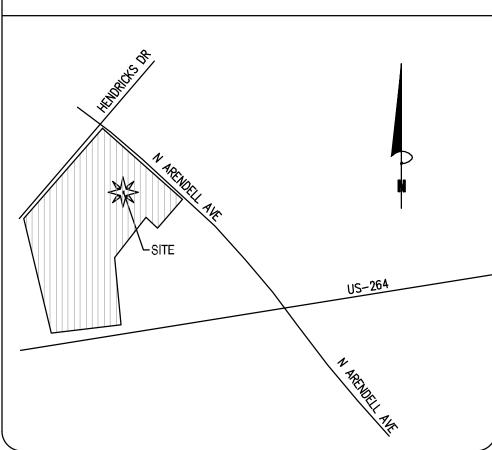
UTILITY NOTE HE ESTIMATED WATER USAGE FOR THIS SITE IS ___ GPD BASED (

CONTRACTOR TO CONTACT CITY OF RALEIGH METERS DIVISION FOR METER LAYOUT AND ADDRESSING.

HYDRANT NOTE: ALL NEW FIRE HYDRANTS SHALL BE EQUIPPED WITH NST THREADS AND SHALL BE EQUIPPED WITH A 5

ELECTRICAL CIRCUIT AND FIRE ALARM CIRCUIT REQUIRED FOR FIRE LINE HOT BOX

MAINS AND NO SLAB PLACED IN THE FIRE PUMP ROOM OR SPRINKLER RISER ROOM UNTIL HYDRAULIC CALCULATIONS, FOR THE BUILDING(S) ARE SUBMITTED FOR REVIEW AND SUBSEQUENT APPROVAL



VICINITY MAP

All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current

1. Utility separation requirements:

a) A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to waterline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well b) When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing

conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer & must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside diameter c) Where it is impossible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10

on each side of crossing must be specified & installed to waterline specifications d) 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer e) Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings; maintain 24" min. vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6"min. clearance (per CORPUD

f) All other underground utilities shall cross water & sewer facilities with 18 min. vertical separation required 3. Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities Department prior to

4. Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service

interruptions shall be preceded by a 24 hour advance notice to the City of Raleigh Public Utilities Department 5. 3.0' minimum cover is required on all water mains & sewer forcemains. 4.0' minimum cover is required on all reuse mains

6. It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook

7. Install 2"PVC copper water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure

8. Install 4"PVC* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum 9. Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0° above the next upstream manhole

10. All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts

(respectively) prior to construction. 11. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to

12. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the CORPUD FOG Program Coordinator prior to

issuance of a Building Permit. Contact Stephen Calverley at (919) 996—2334 or Stephen.Calverley@raleighnc.gov for more information 13. Cross-connection control protection devices are required based on degree of health hazard involved as listed in Appendix-B of the Rules Governing Public Water

Systems in North Carolina. These guidelines are the minimum requirements. The devices shall meet American Society of Sanitary Engineering (ASSE) standards or be on the University of Southern California approval list. The devices shall be installed and tested (both initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross-connection control program, whichever is more stringent. Contact Joanie Helvey at (919) 212-5923 or <u>joanie.hartley@raleighnc.gov</u> for more information.

WATER SERVICE

PUBLIC

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

PUBLIC Sewer Collection/Extension System

conform to the standards and specifications of the City's Public Utilities Handbook.

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 Standardswill result in a Fine and Possible Exclusion

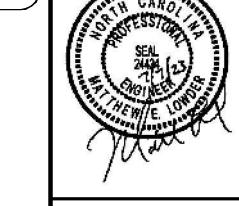
GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 1" WATER SERVICE LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS. CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540 ELECTRIC SERVICE "POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION. PROGRESS ENERGY TELEPHONE: 800-636-0581 TELEPHONE SERVICE "TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL

UTILITY SERVICE NOTES

WRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION. TELEPHONE:

GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" SCHEDULE 40 PVC FROM EXISTING SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL). CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540

GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING. TELEPHONE:



PRELIMINARY

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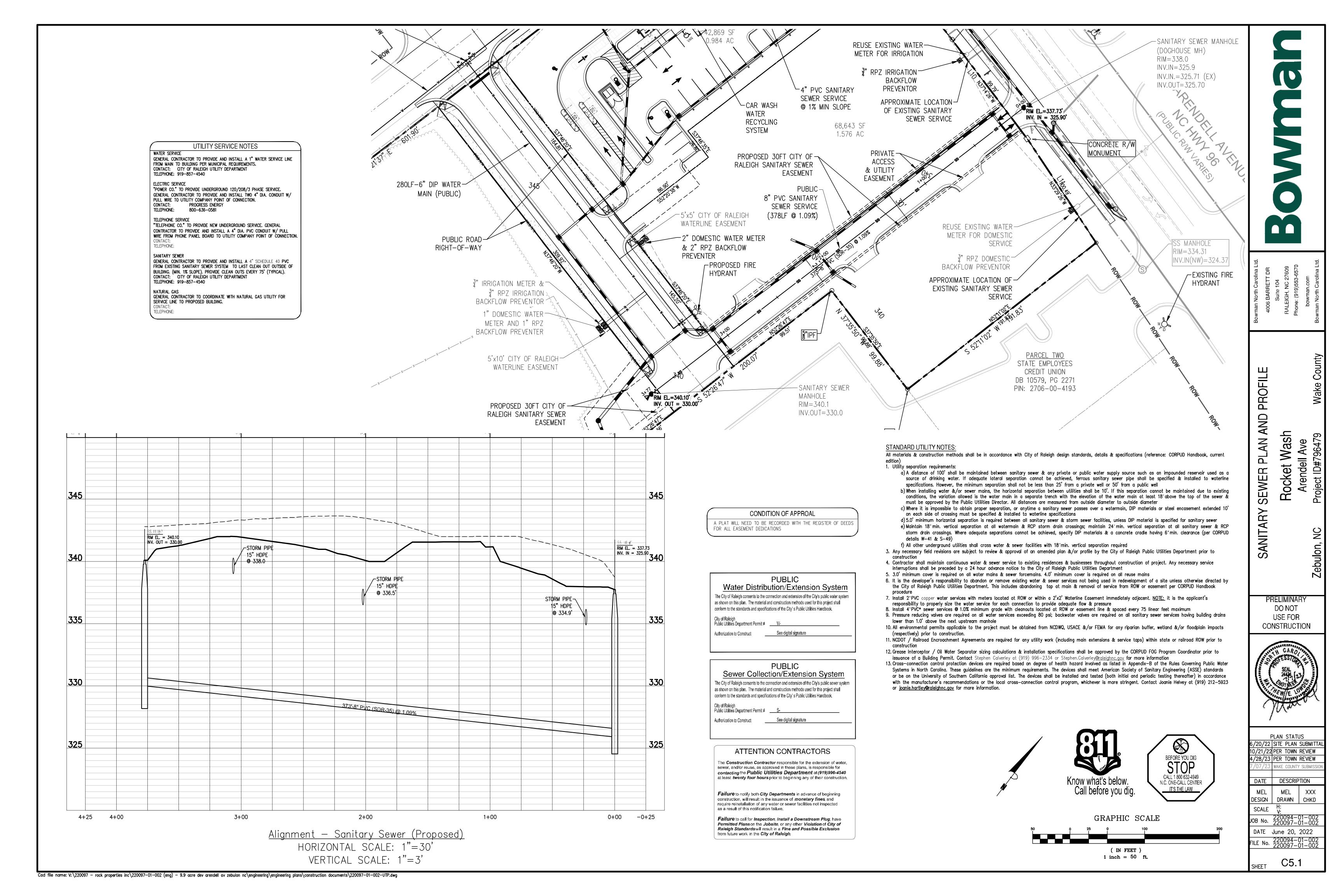
Know what's below SCALE GRAPHIC SCALE (IN FEET) 1 inch = 50 ft.

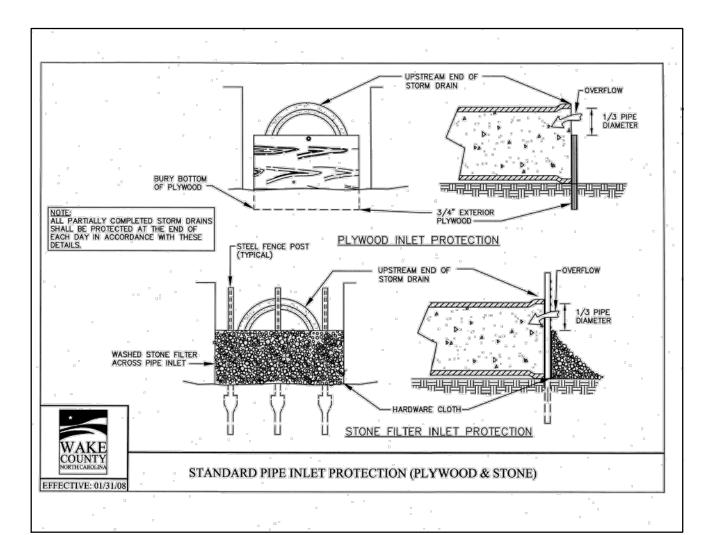
PLAN STATUS /22|SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD

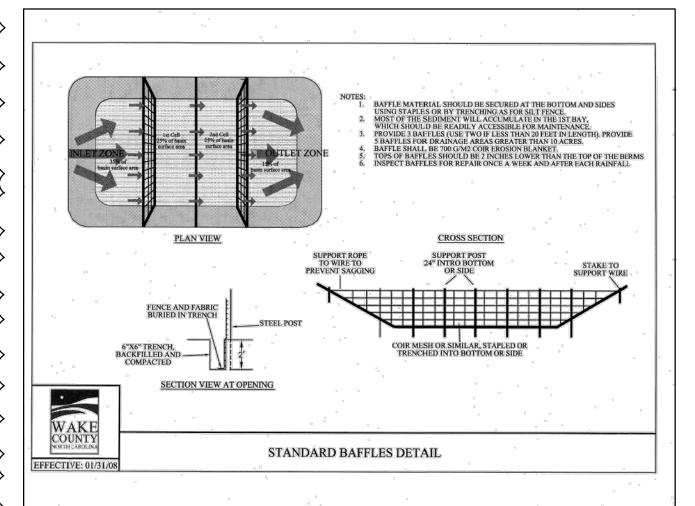
DATE June 20, 2022

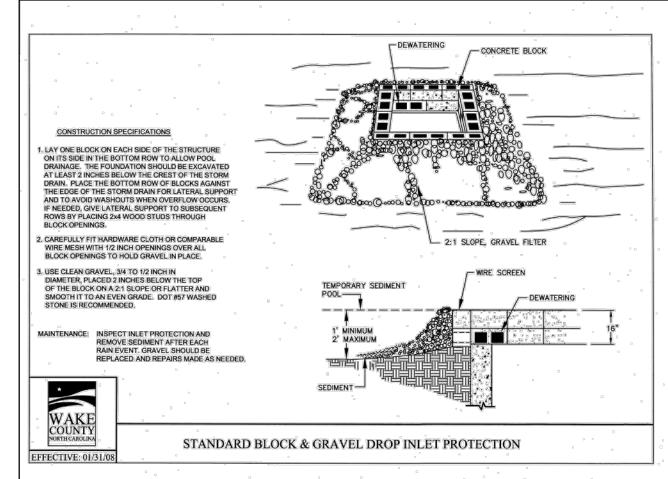
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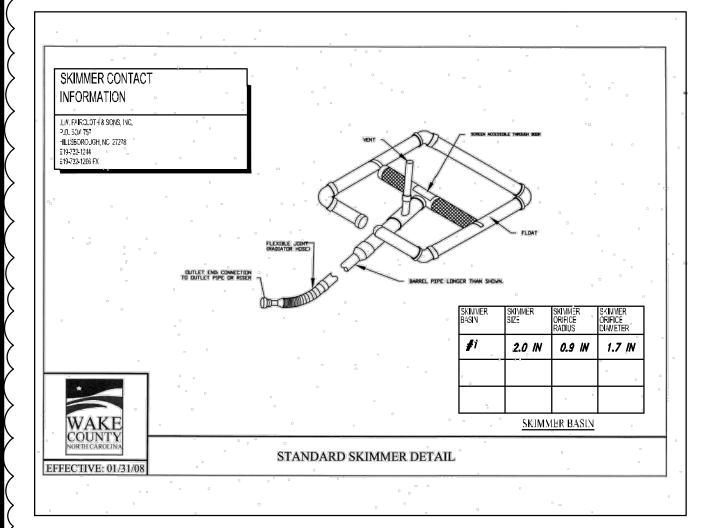
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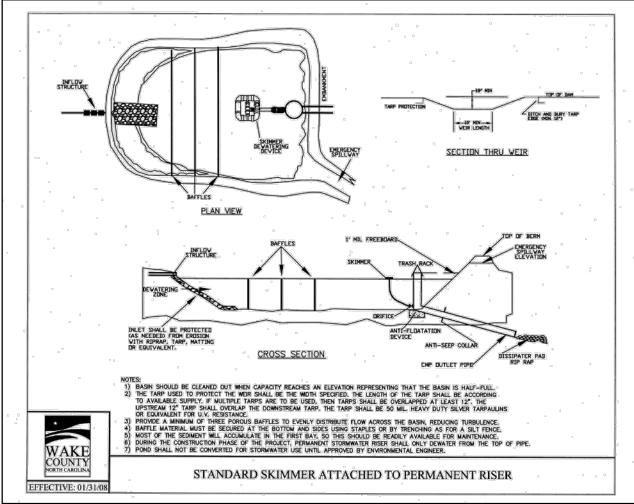


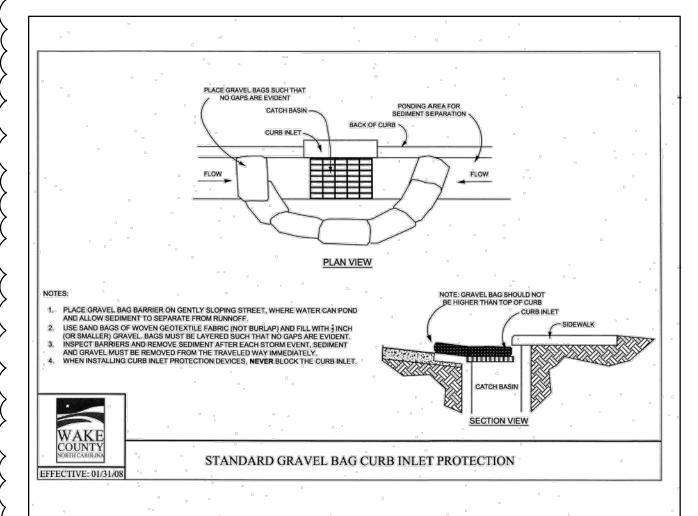


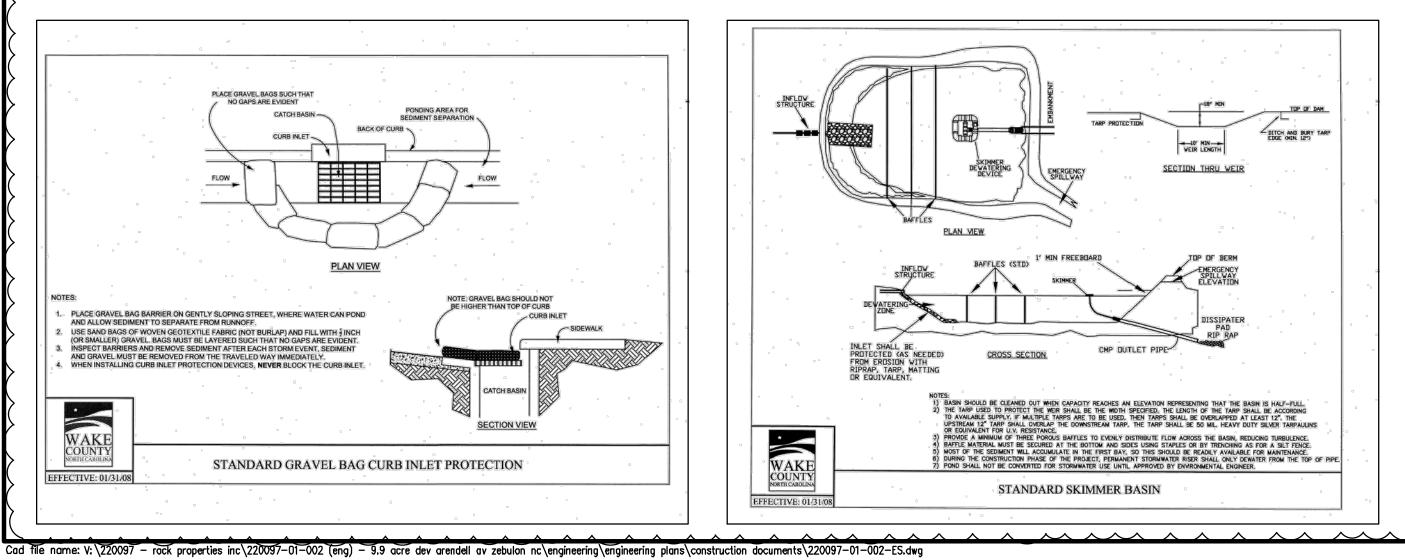


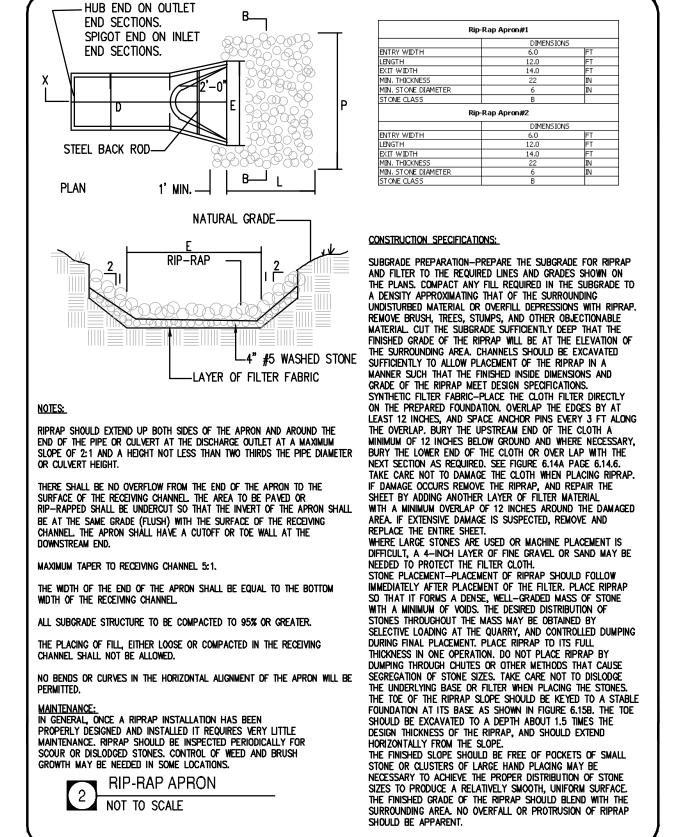


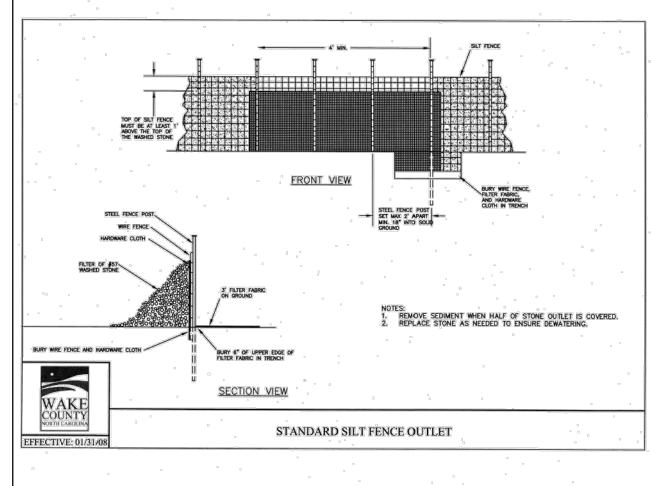


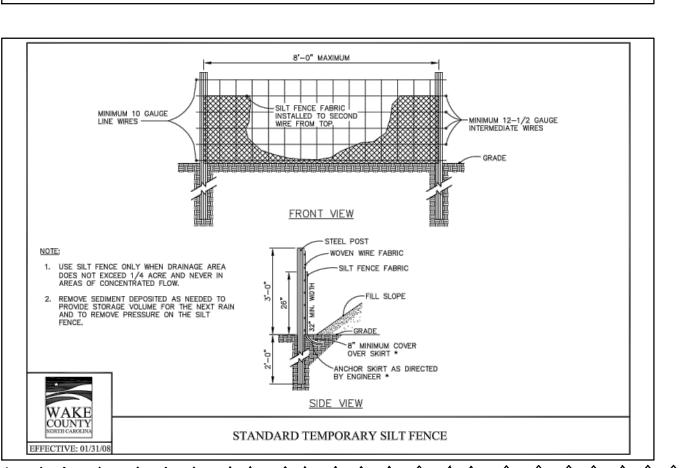


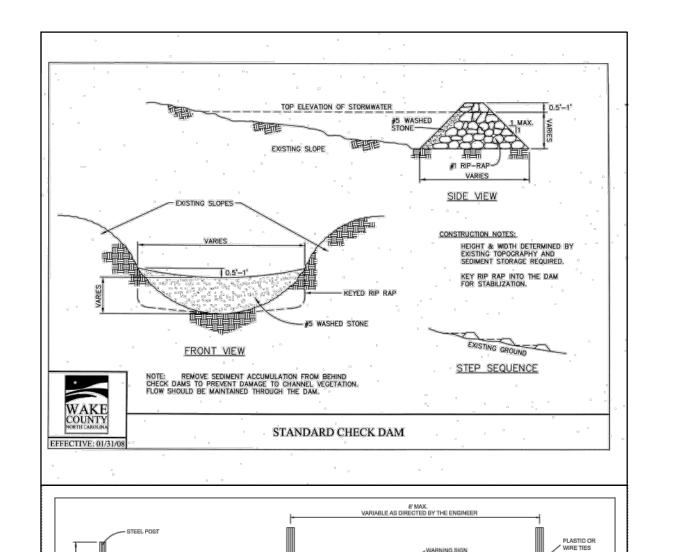












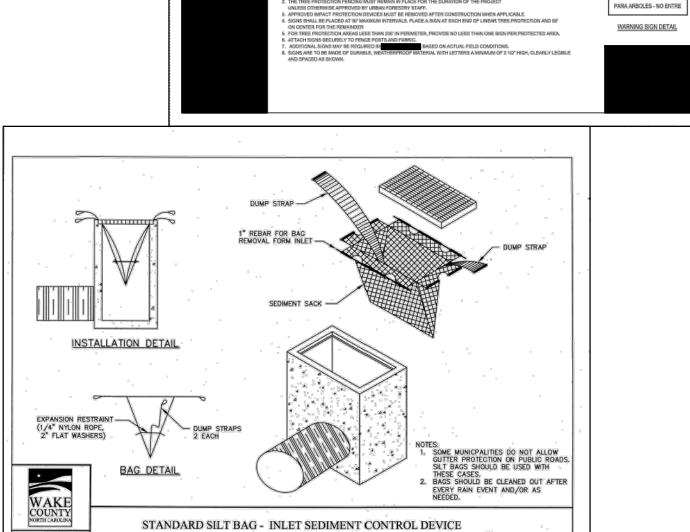
TREE PROTECTION AREA

FRONT VIEW

____ DO NOT ENTER

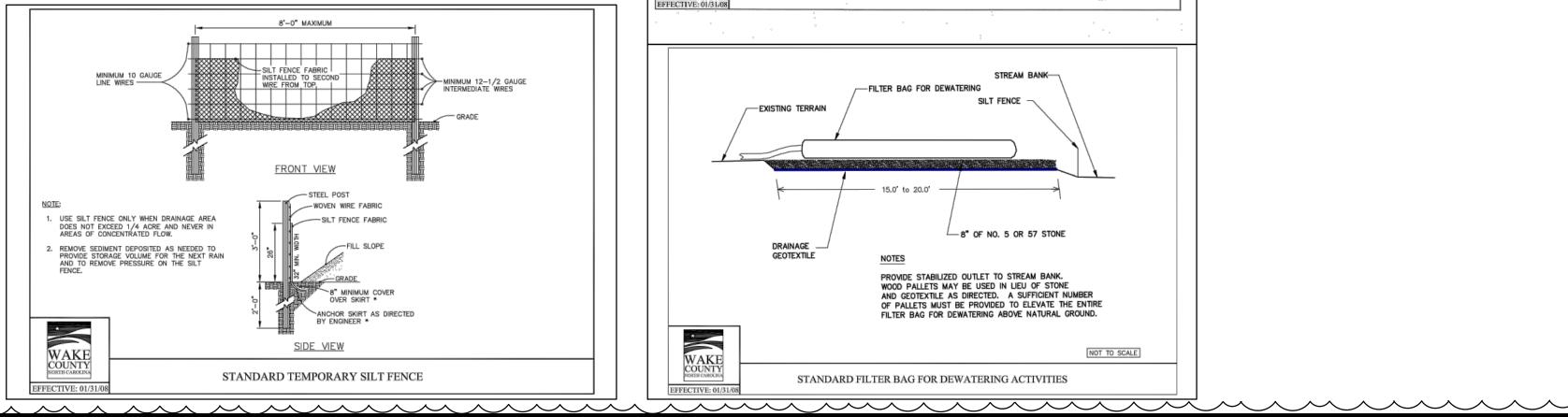
ZONA DE PROTECCION

WARNING SIGN DETAIL



SIDE VIEW

THE PROPERTY PROPERTY OF THE STEEL PROPERTY





PRELIMINARY DO NOT USE FOR CONSTRUCTION PLAN STATUS /22|SITE PLAN SUBMIT

21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW

DATE DESCRIPTION

MEL

DESIGN | DRAWN | CHKD

DATE June 20, 2022

SCALE

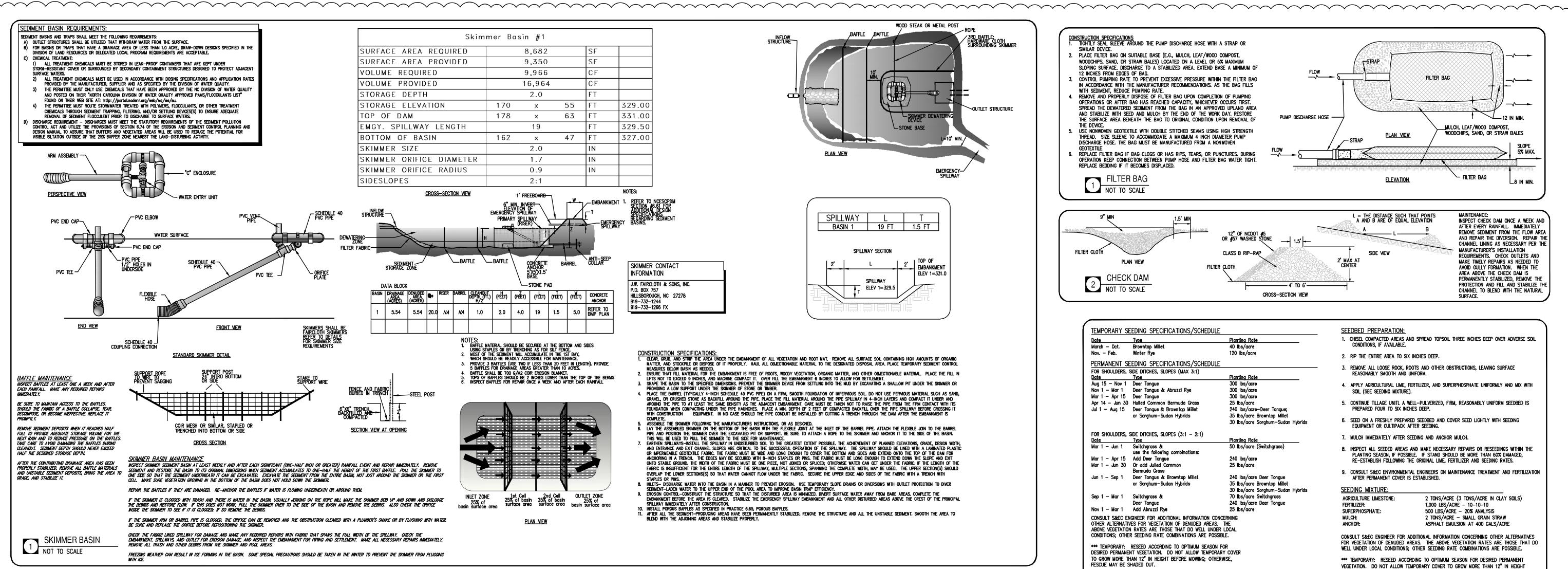
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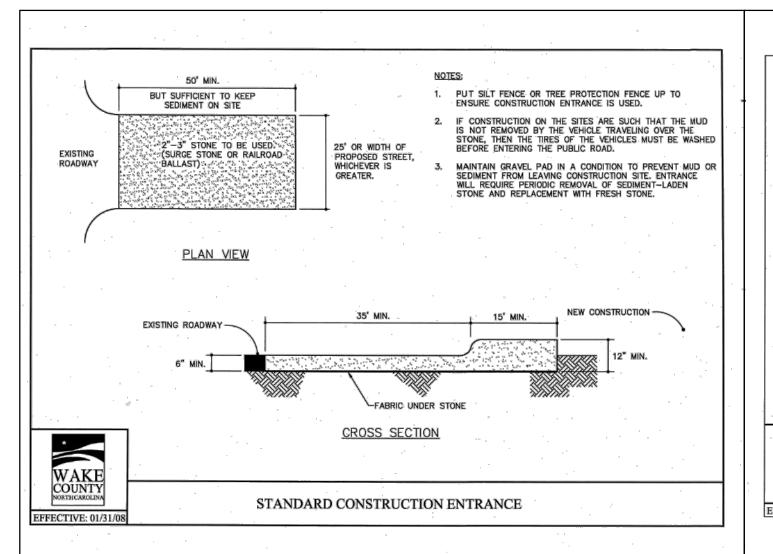
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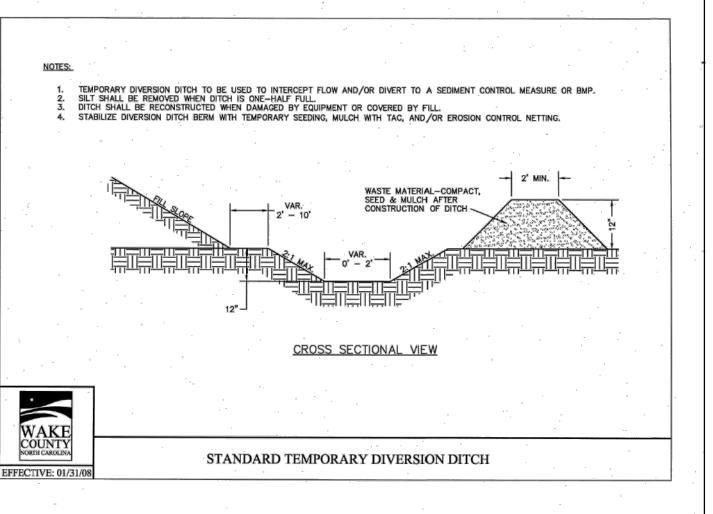
EROSION CON

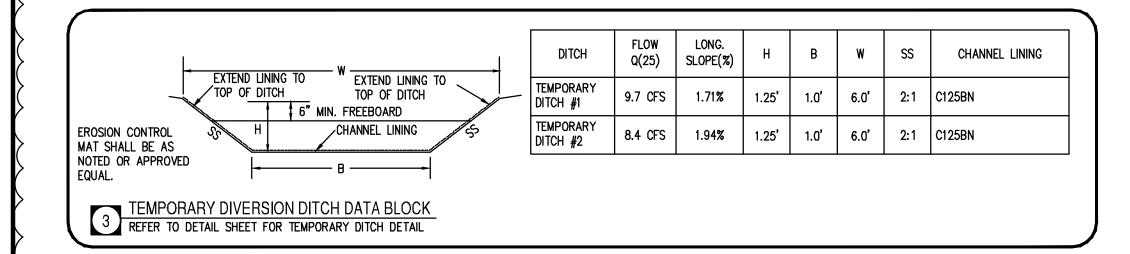
Wash

Rocket Arende

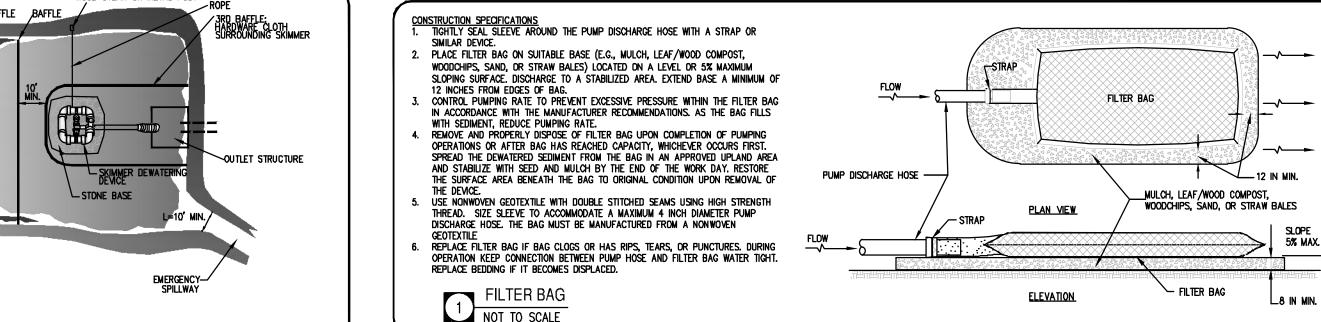








Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering plans\construction documents\220097-01-002-ES.dwg



TEMPORARY SEEDING SPECIFICATIONS/SCHEDULE

PERMANENT SEEDING SPECIFICATIONS/SCHEDULI

FOR SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1)

Nov 1 – Mar 1 Deer Tongue & Abruzzi Rye

Apr 14 - Jun 30 Hulled Common Bermuda Grass

Jul 1 - Aug 15 Deer Tongue & Browntop Millet

TEMPORARY SEEDING

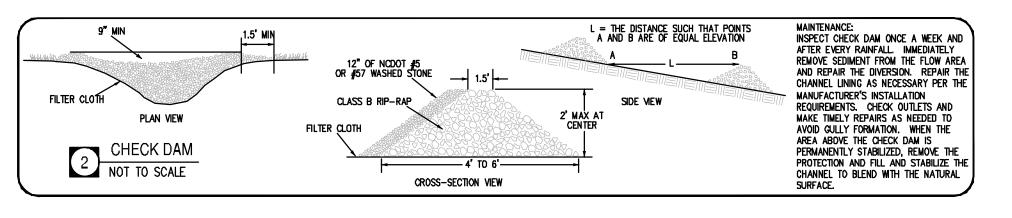
or Sorghum-Sudan Hybrids

March - Oct. Browntop Mille

Date Type
Aug 15 - Nov 1 Deer Tongue

Mar 1 - Apr 15 Deer Tongue

Nov. - Feb. Winter Rve



Planting Rate

Planting Rate 300 lbs/acre

300 lbs/acre

300 lbs/acre

240 lbs/acre-Deer Tongue;

35 lbs/acre Browntop Millet

30 lbs/acre Sorghum-Sudan Hybrids

25 lbs/acre

40 lbs/acre

120 lbs/acre

SEEDBED PREPARATION:

CONDITIONS, IF AVAILABLE.

2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.

REASONABLY SMOOTH AND UNIFORM.

PREPARED FOUR TO SIX INCHES DEEP.

EQUIPMENT OR CULTIPACK AFTER SEEDING.

SOIL (SEE SEEDING MIXTURE).

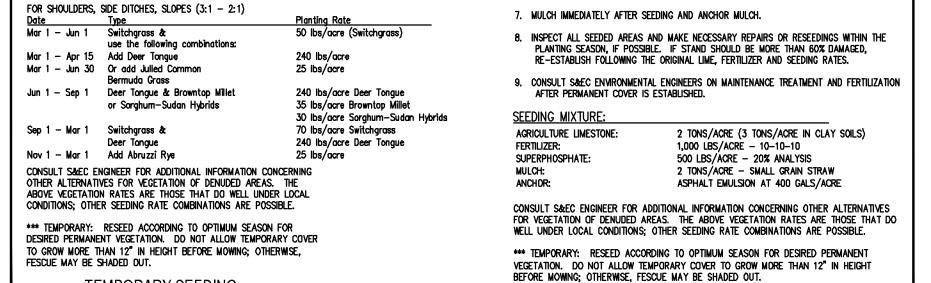
1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL

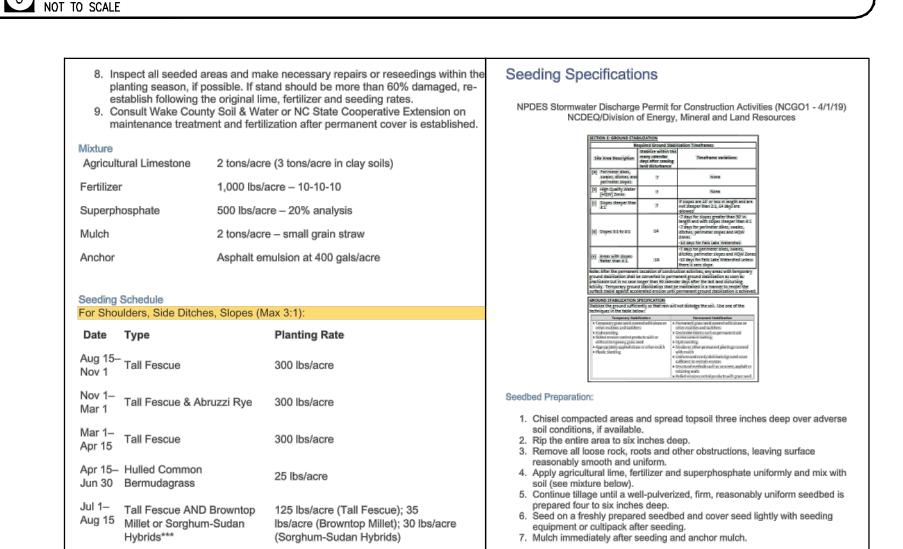
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH

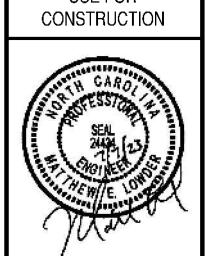
5. CONTINUE TILLAGE UNITL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS

6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING

3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE







1	0.	
F	PLAN STATU	JS
5/20/22	SITE PLAN	SUBMITTA
0/21/22	PER TOWN	REVIEW
4/28/23	PER TOWN	REVIEW
7/07/23	WAKE COUNTY	SUBMISSION
DATE	DESCRIP	TION
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: N/A V: N/A	
IOB No.	220094-1 220097-1	
DATE	June 20,	
FILE No.	220094-1 220097-1	

SLOPE 5% Max.

—

NTROL

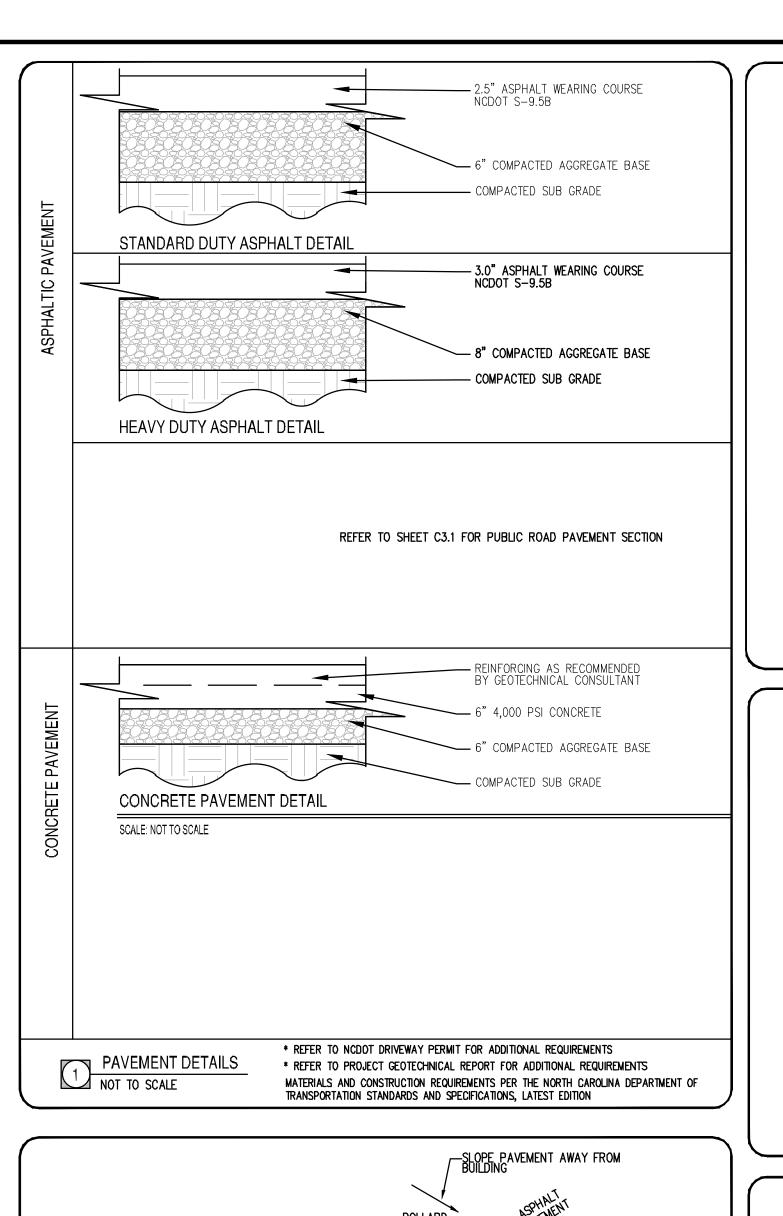
OSION COL

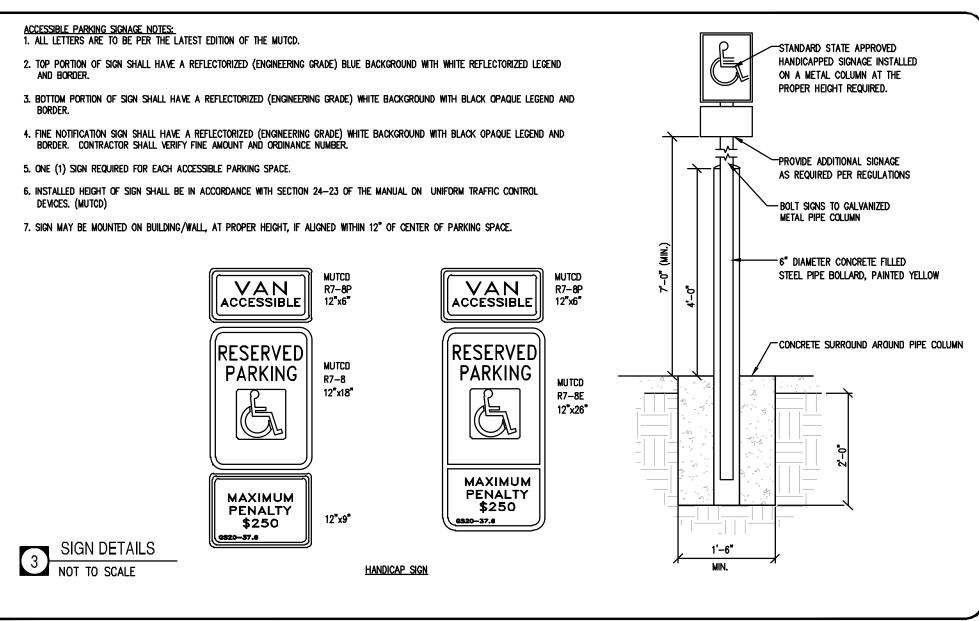
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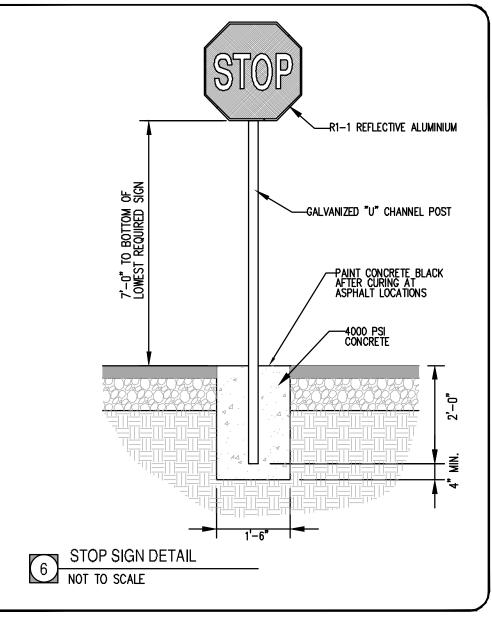
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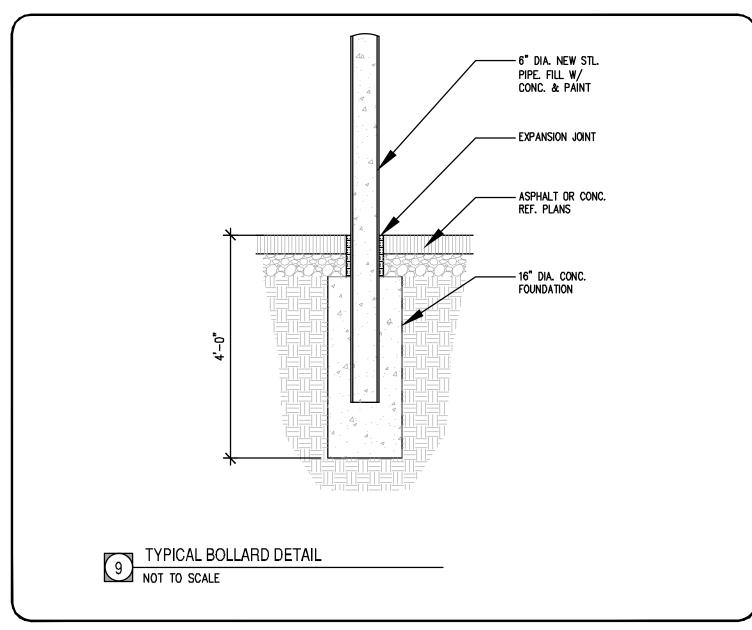
Wash ocket Arende ď

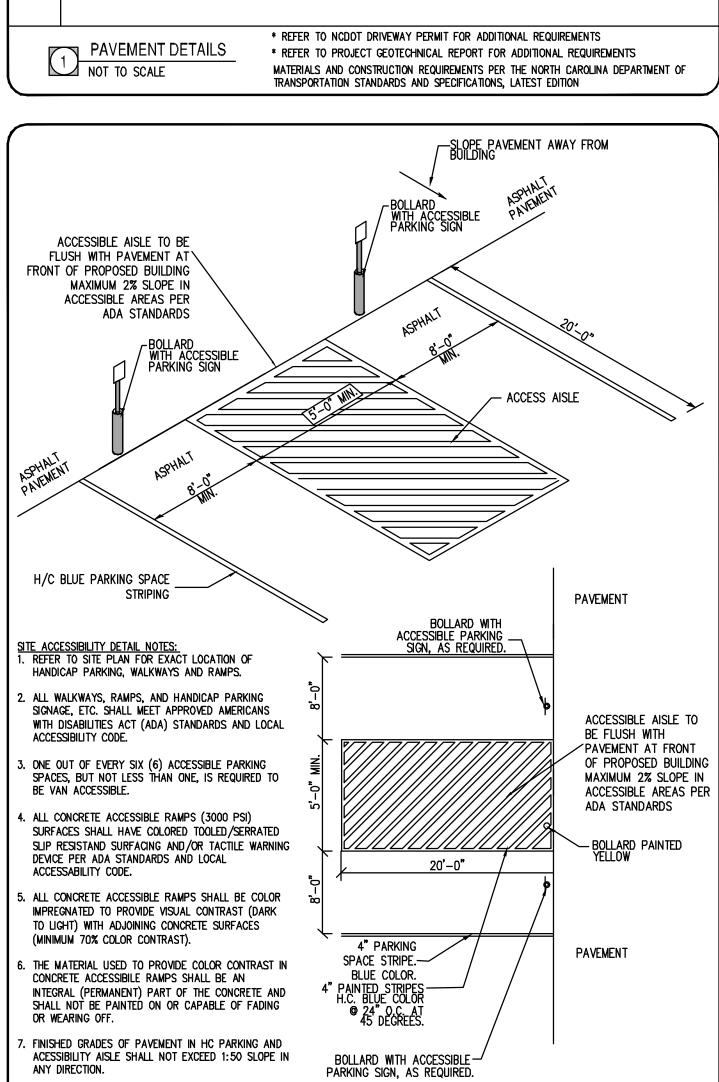
PRELIMINARY DO NOT USE FOR

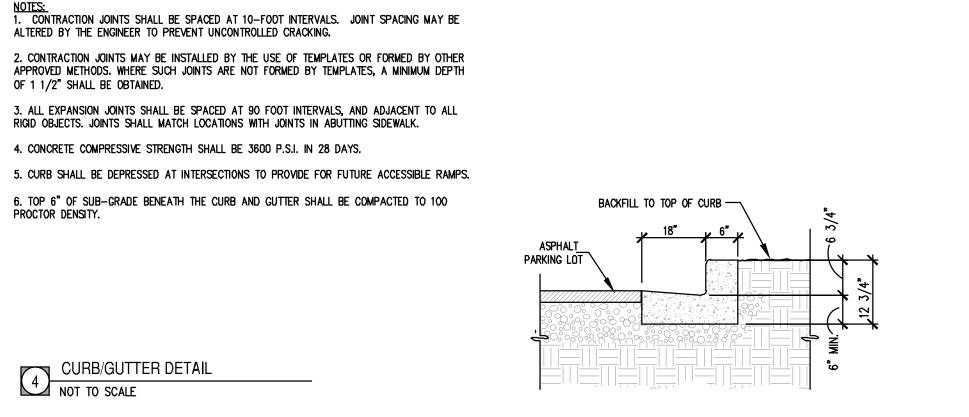


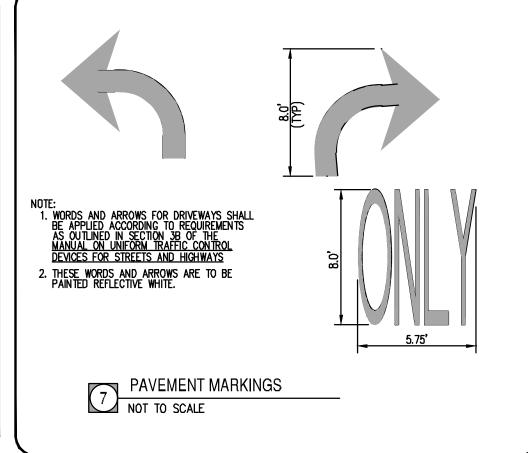


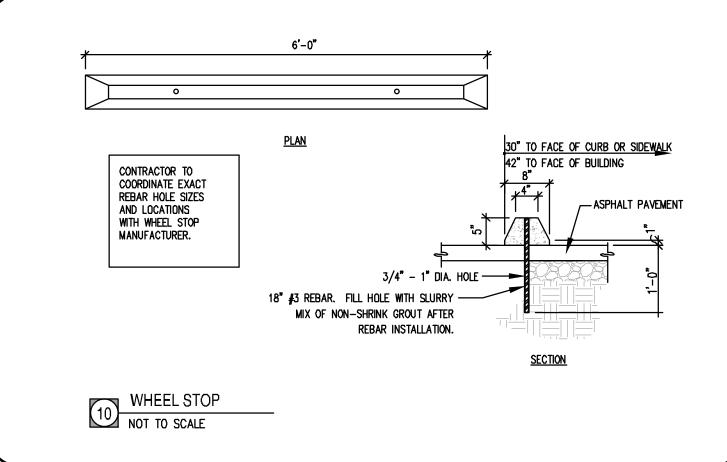


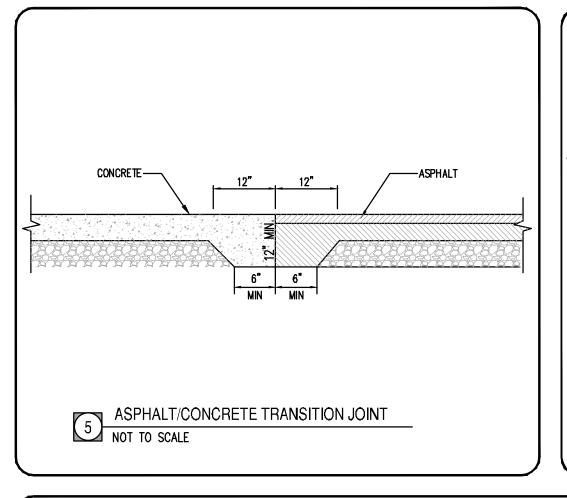


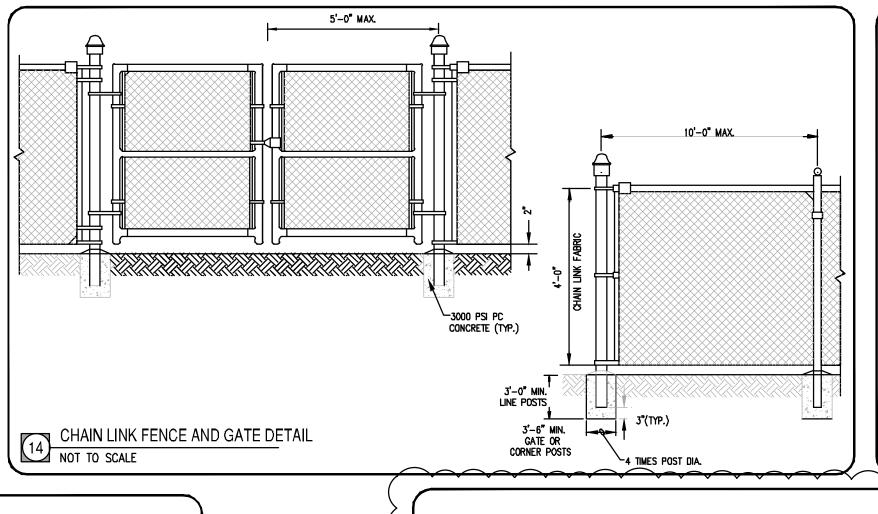


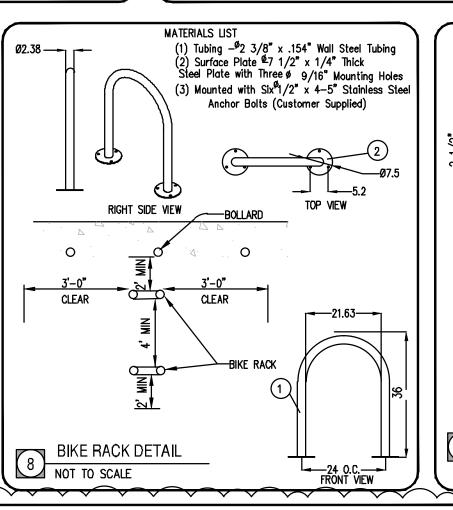


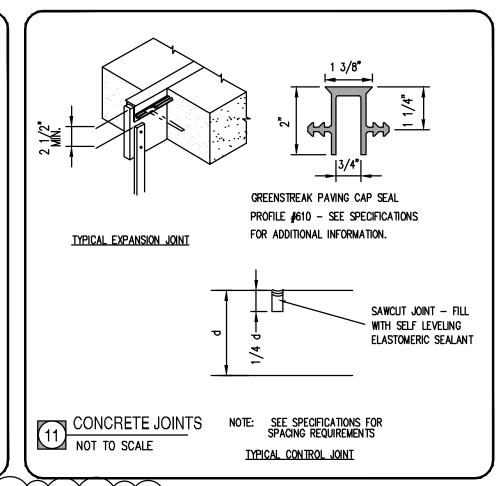


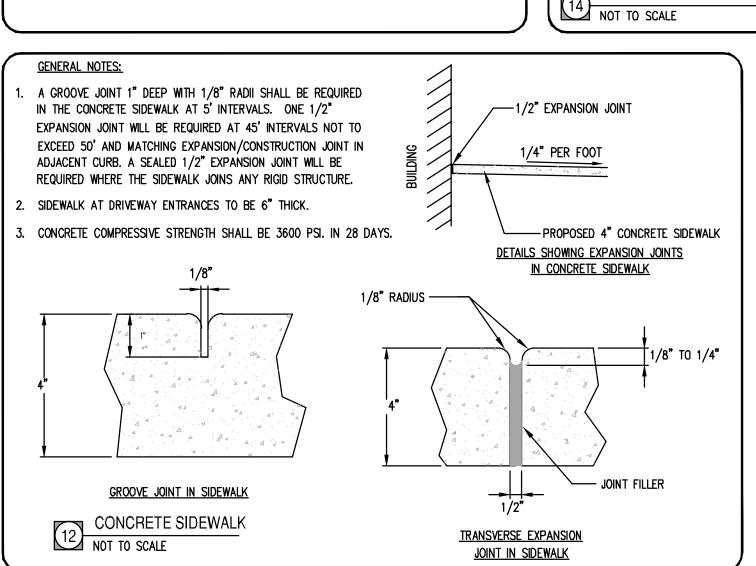


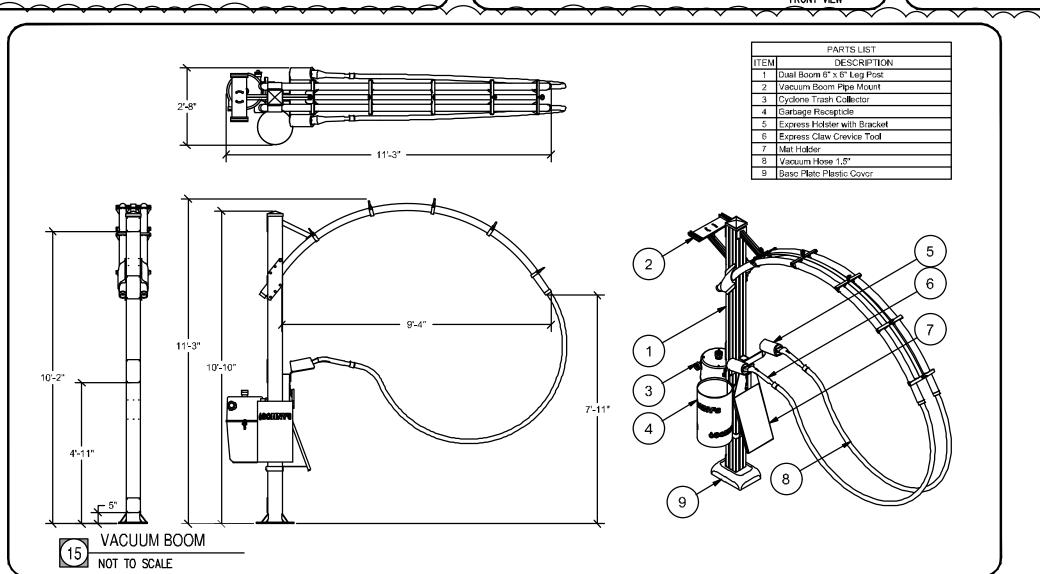














Suite 104 RALEIGH, NC 27609 Phone: (919)553-6570 bowman.com

Wake County

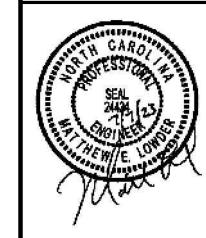
Rocket Wash Arendell Ave Project ID#796479

ION DETAIL

CONSTRUC

- (-

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



PLAN STATUS
6/20/22 SITE PLAN SUBMITTAL
10/21/22 PER TOWN REVIEW
4/28/23 PER TOWN REVIEW
7/07/23 WAKE COUNTY SUBMISSION

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H:
V:

JOB No. 2220094-01-002
220097-01-002

DATE June 20, 2022

FILE No. 220094-01-002
SHEFT C6.2

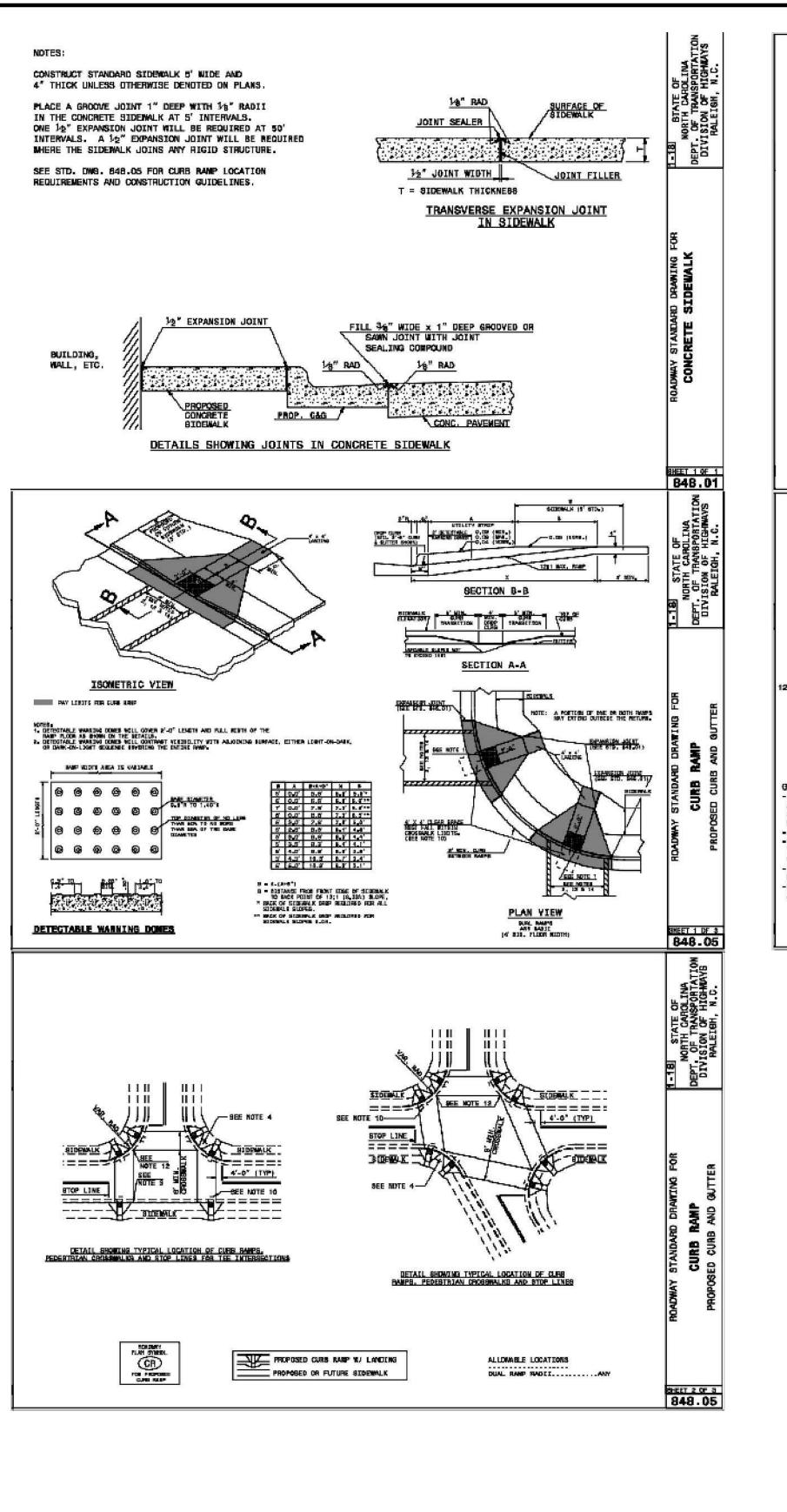
NOTE: ALL ACCESSIBLE RAMP AND ACCESS AISLES

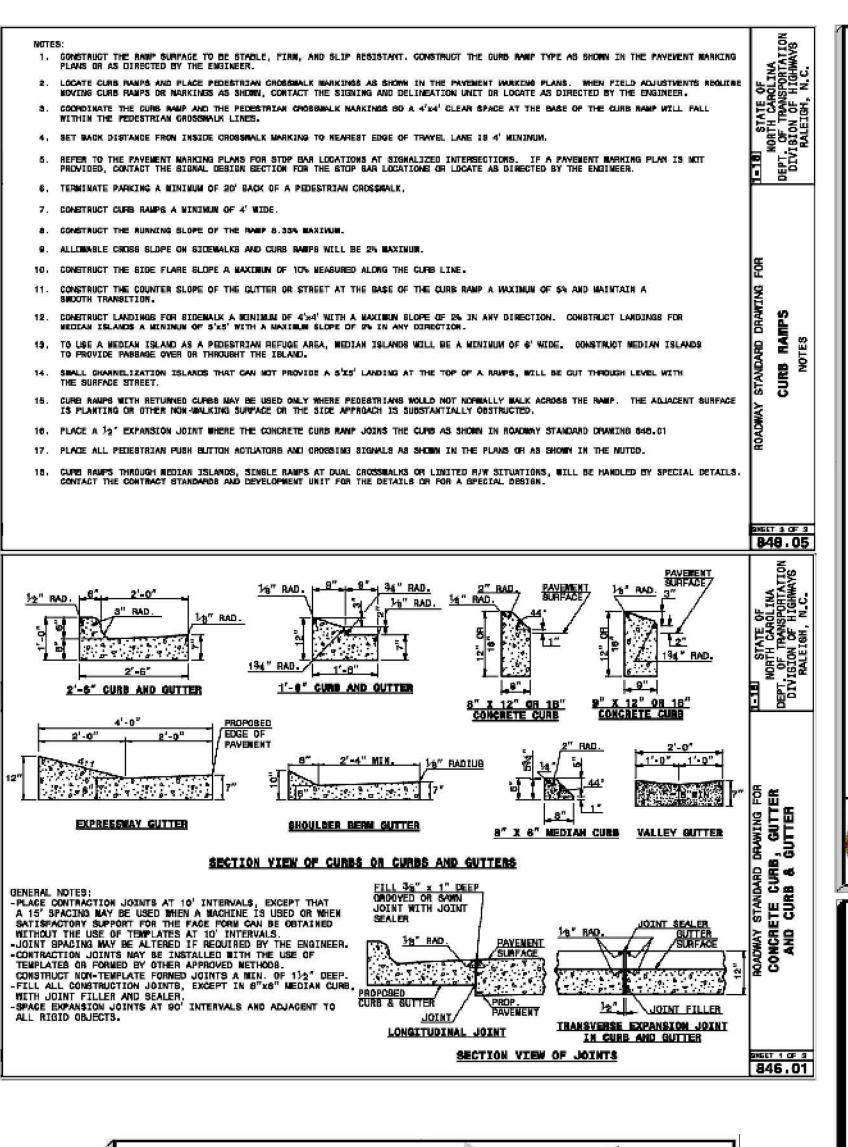
SHALL MEET ALL CODES AND ADAAG

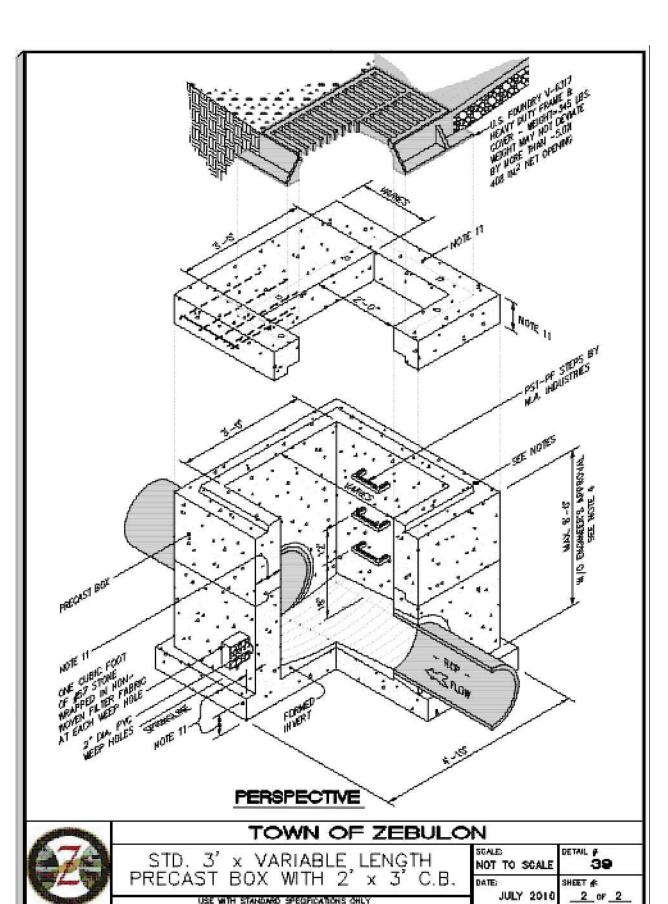
REGULATIONS.

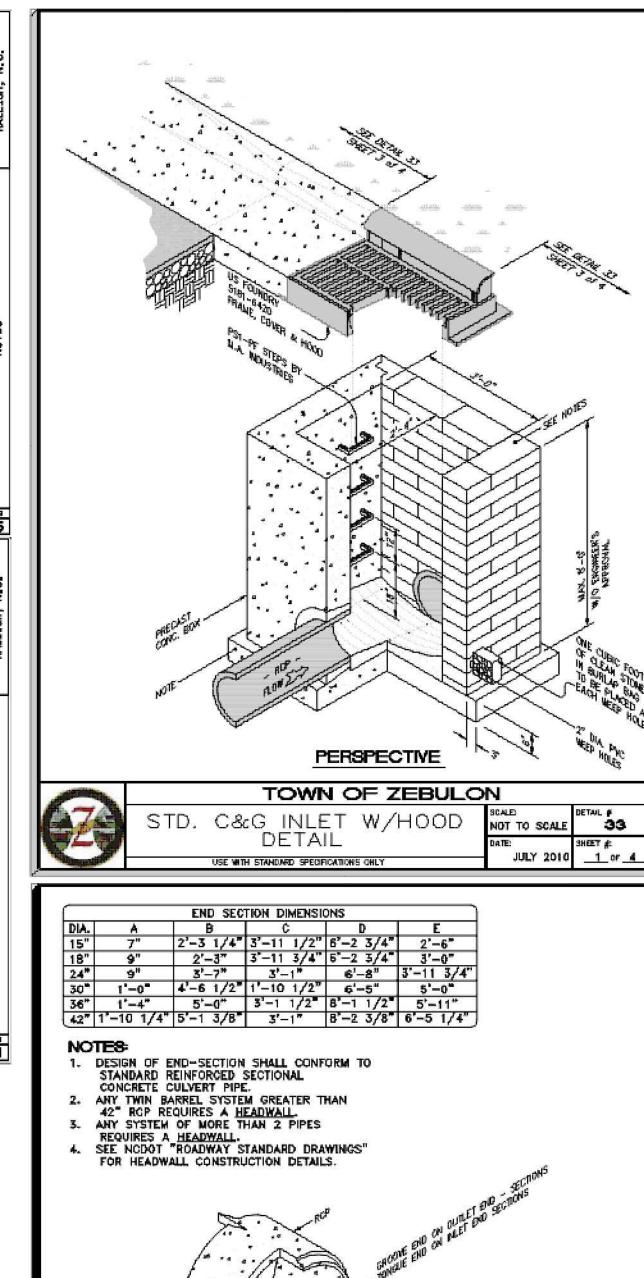
ACCESSIBLE PARKING DETAIL

NOT TO SCALE







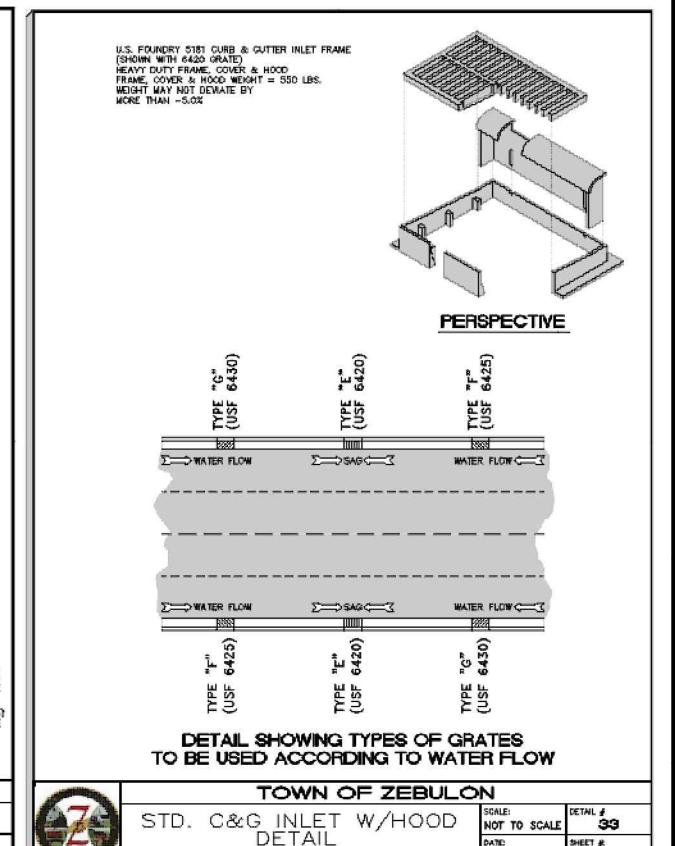


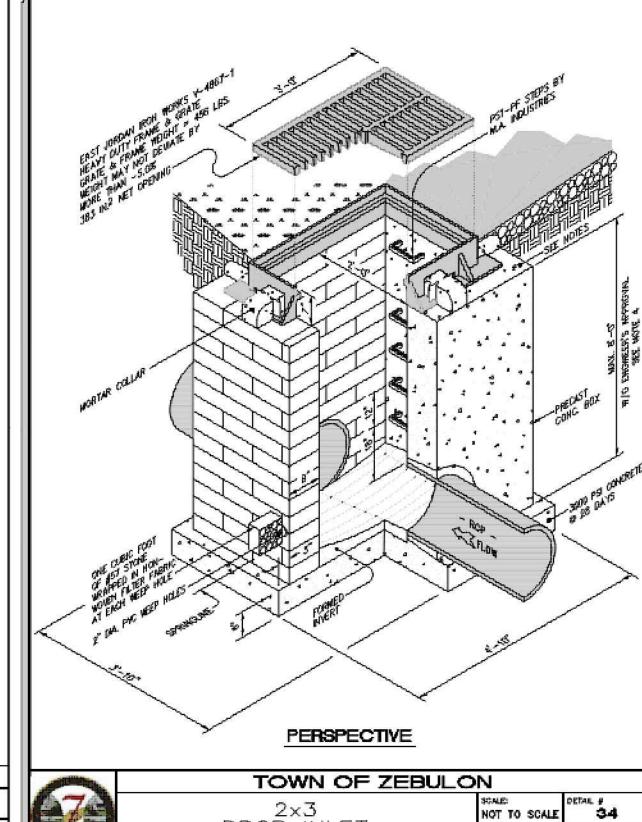
PERSPECTIVE

USE WITH STANDARD SPECIFICATIONS ONLY

TOWN OF ZEBULON

JULY 2010

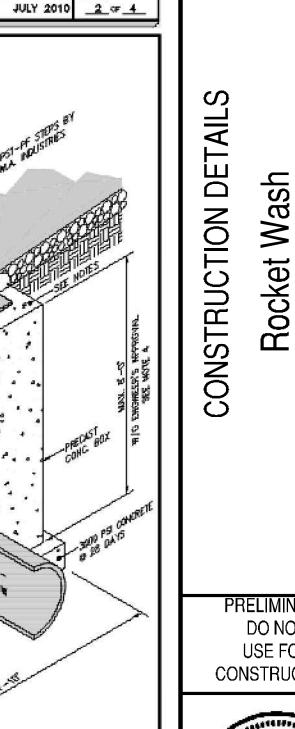




DROP INLET

ISE WITH STANDARD SPECIFICATIONS ONLY

USE WITH STANDARD SPECIFICATIONS ONLY



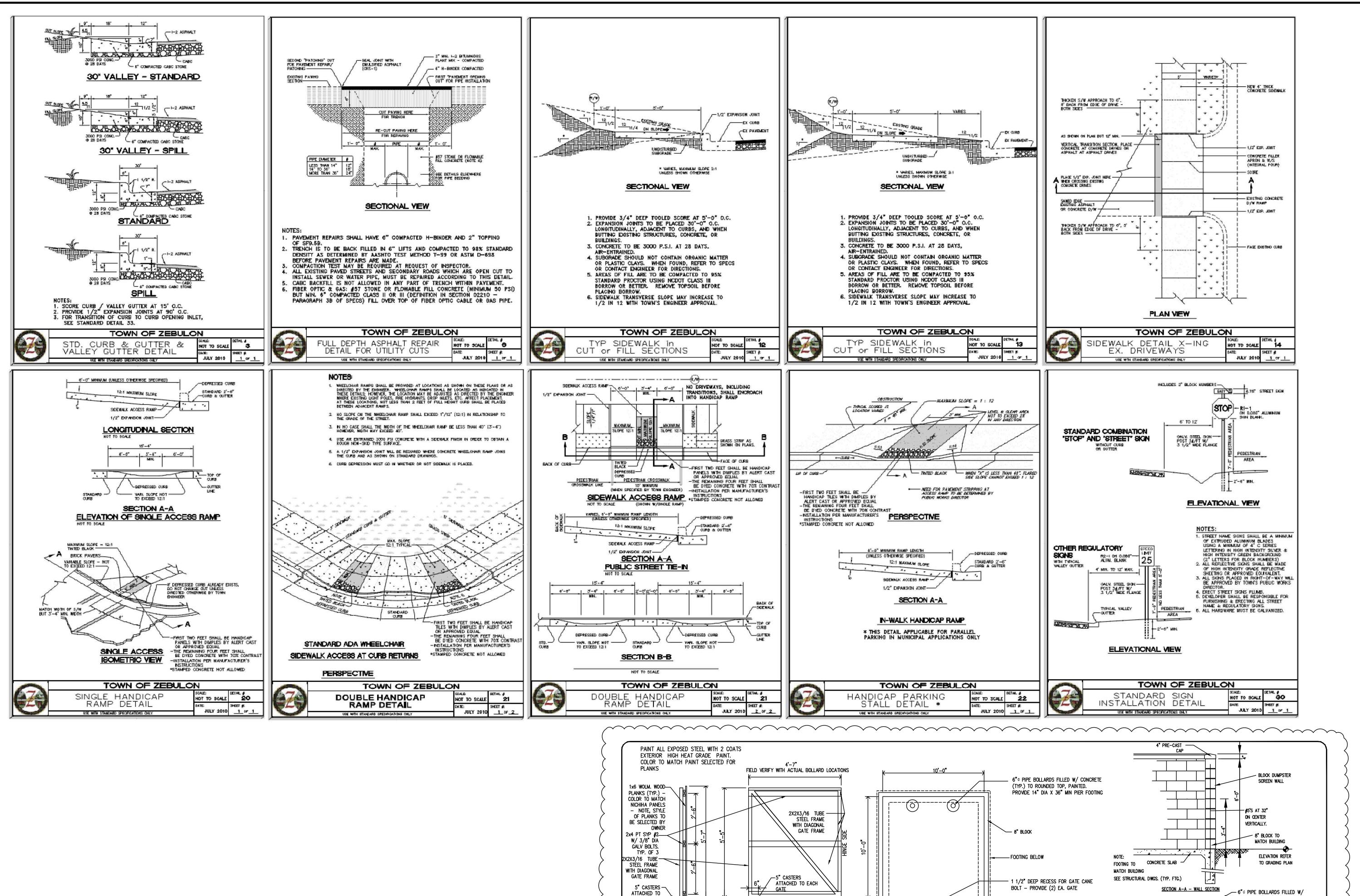
PRELIMINARY DO NOT USE FOR CONSTRUCTION



JULY 2010 __1_of_1

PLAN STATUS)/22|SITE PLAN SUBMIT 21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022 C6.3A

Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-51T.dwg



EACH GATE

Cad file name: V:\220097 - Rock Properties Inc\220097-01-002 (ENG) - 9.9 Acre Dev Arendell Av Zebulon NC\Engineering\Engineering Plans\Construction Documents\220097-01-002-5IT.dwg

DUMPSTER ENCLOSURE

NOT TO SCALE

4006 BARRELL DR Suite 104 RALEIGH, NC 27609 Phone: (919)553-6570

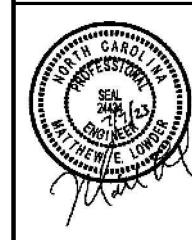
Rocket Wash Arendell Ave Project ID#796479

ION DETAIL

CONSTRUC

LIMINARY

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



PLAN STATUS
6/20/22 SITE PLAN SUBMITT
10/21/22 PER TOWN REVIEW
4/28/23 PER TOWN REVIEW
7/07/23 WAKE COUNTY SUBMISSI

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H:
V:

JOB No. 220094-01-002

DATE June 20, 2022

FILE No. 220094-01-002

SHEFT C6.3B

CONCRETE (TYP.) TO ROUNDED TOP-

PAINT TO MATCH WOLM. WOOD PLANKS

-1x6 WOLM. PLANKS, PAINTED (TYP.)

- COLOR TO MATCH MTL. BLDG.
PANELS - NOTE, STYLE OF PLANK!
TO BE SELECTED BY OWNER

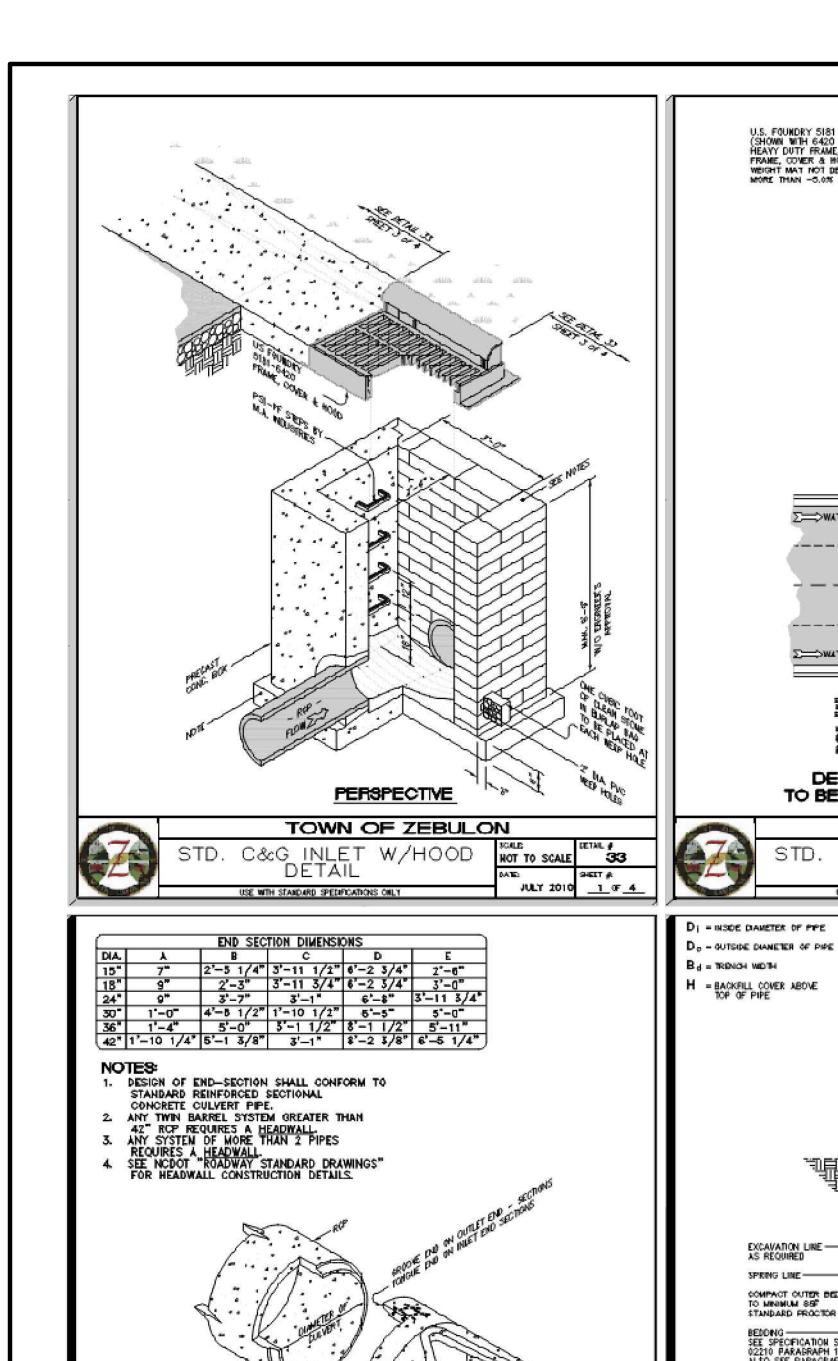
-5" CASTERS ATTACHED TO EACH GATE

— HEAVY DUTY HINGES

FIN. GRADE

1x6 WOLM. PLANKS ON 2x P.T. WOOD FRAMED GATES. PROVIDE DIAG. 2x

BRACING



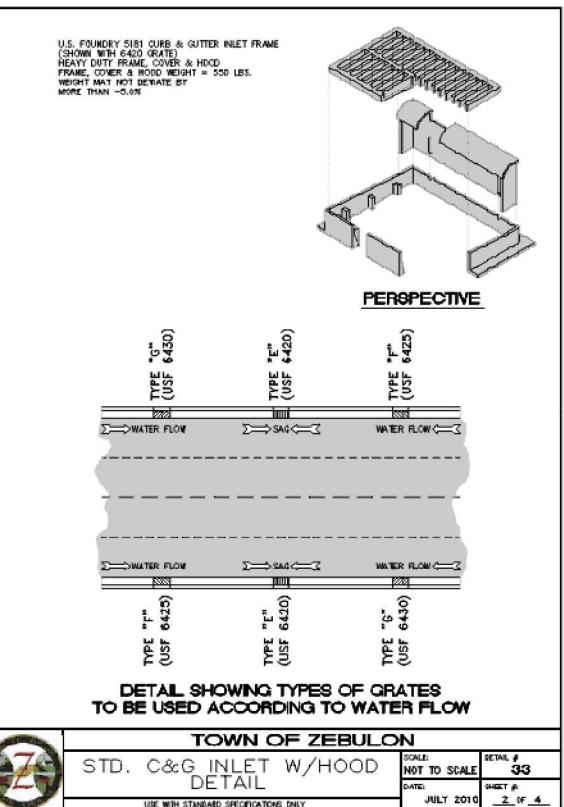
PERSPECTIVE

FLARED END SECTIONS

DESIGN AID DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

TOWN OF ZEBULON



EXCAVATION LINE — AS REQUIRED

COMPACT OUTER BEDDING TO MINIMUM 85F STANDARD PROCTOR —

SEE SPECIFICATION SECTION 02210 PARAGRAPH 13. ALSO SEE PARAGRAPH 3A

BEDDING, TYPE 4 LAYING CONDITIONS.

APPROVAL UP TO 48" PIPE.

SECTIONAL VIEW

1. FOR OTHER BURY DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROYIDE

TOWN OF ZEBULON

CALCS ON PIPE BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDITIONS IN WHICH IT IS PROPOSED TO BE USED.

2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE

TRENCH INSTALLATION

3. MININUM COVER NOT SHOWN BUT NO LESS THAN 12" W/O ENGINEERS

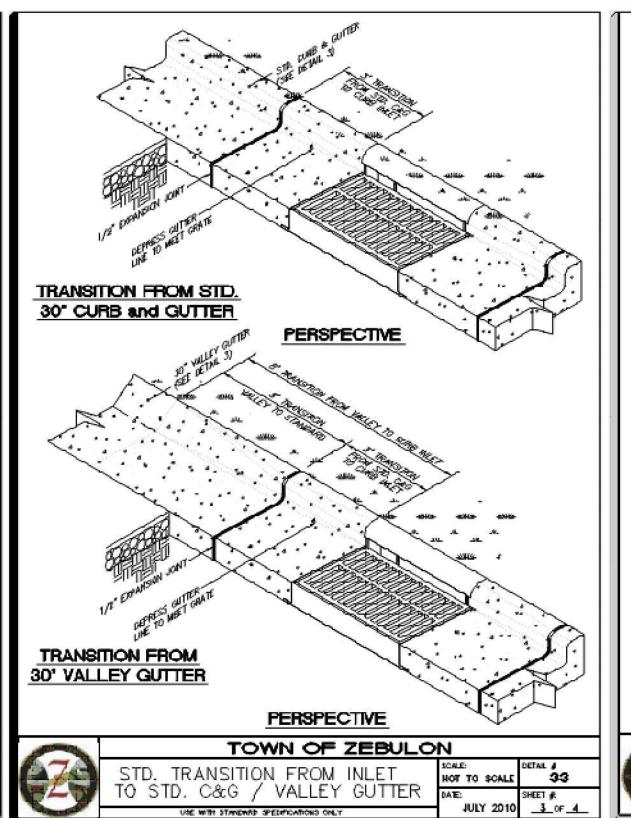
FOR CONCRETE PIPE (FOR CONTRACTOR'S USE)

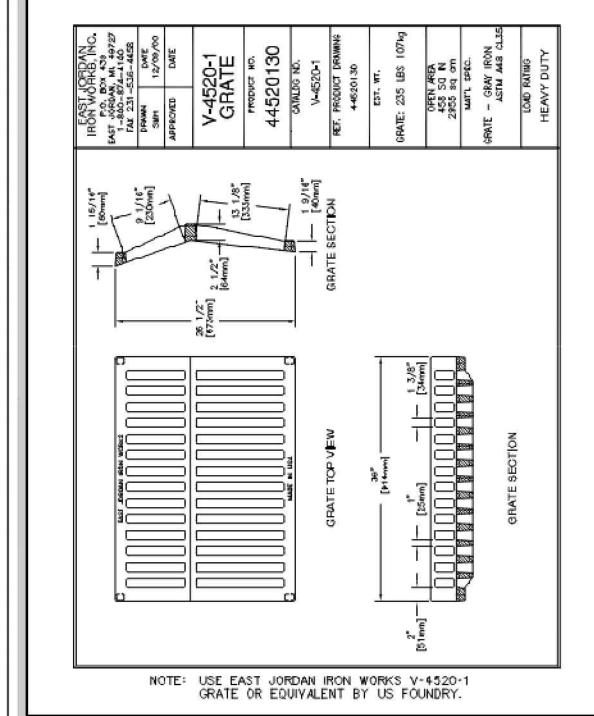
USE WITH STANDARD SPECIFICATIONS ONLY

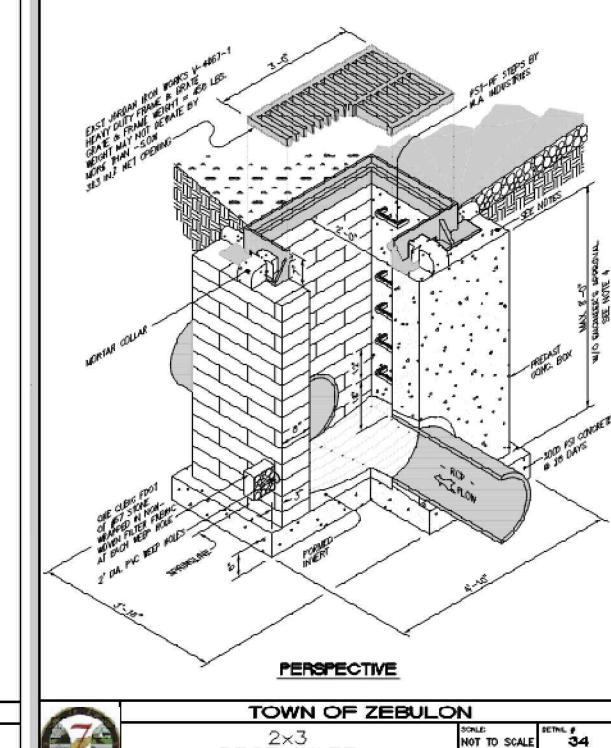
PIPE MAX. MAX. BURY MAX. BURY

THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING

(O.STASSLIV)







	Representative Soll Types		Percent Compaction	
300 301	uscs,	ARSHTO	Standard Proctor	Modified Proctor
Gravelly Sand (Category I)	SW, SP, GW, GP	AI,A3	100 35 30 65 60 61	95 90 80 80 76 59
Sandy Sit (Catagory I)	OM, 3M, ML. Also (4C, 5C) with less than 26% passing #200 sleve	A2,44	100 35 80 85 80 49	\$5 \$0 86 86 75
Sity Clay (Category II)	OL, MH OC, SC	A5,46	100 95 90 85 80 45	90 85 80 75 70 40
	он		100 95 90 45	90 85 80 40

TOWN OF ZEBULON

JULY 2010

DETAIL FOR STORM DRAIN

WITH DRIVEWAY CONFLICT

Installation Type ⁴	Bedding Thickness	Haunch and Outer Bedding	Lower Side	
Туре I	$D_0/24$ minimum, sot less than 75 mm (3"), if rock foundation, as $D_0/12$ minimum, not less than 150 mm (6").	98% Category I	90% Category I, 90% Category II, or 100% Category III	
Type 2	$D_{\phi}/24$ minimum, sot let than 75 mm (3"), if rock foundation, use $D_{\phi}/12$ minimum, at less than 150 mm (4").	90% Category I or 95% Category I	85% Category I, 90% Category II, or 95% Category III	
Туре 3	$D_0/24$ minimum, sot tess than 75 mm (3°). If rock foundation, use $D_0/12$ minimum, not less than 150 mm (4°),	85% Category I, 90% Category II, or 95% Category III	85% Category I, 95% Category II, or 95% Category II	
Type 4	D ₀ /24 minimum, sot less than 75 mm (3°). If rock foundation, use D ₀ /12 minimum, not less than 150 mm (8°).	No compection required, except if Category III, use BSW Category III	No compaction required, except th Category III, use 66% Category III	

DROP INLET

JULY 2010 1 0F 1

		0.00	
r	lot	88	
1			100

. Compaction and soils symbols — i.e. *98% Category I' refers to Category 1 soil material with a minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.

2. Soil in the outer bedding, haunch, and lower side zones, except within DO/3 from the pipe springline, shall be compacted to at least the same compaction as the majority of the soil in the overfill zone.

3. Subtrenches 3.1 A subtrench is defined as a trench with its top below finished grade by more than 0.1 H or, for roadways, its top is at an elevation lower than 0.3 m (1')

below the battom of the pavement base material. 3.2 The minimum width of a subtrench shall be 1.33 Do or wider if required for

adequate space to attain the specified compaction in the haunch and bedding 3.3 For subtrenches with wall of natural soil, any portion of the lower side zone in the subtrench wall shall be at least as firm as an equivalent soil placed to the

D ₁ = INSDE DIAMETER OF PIPE	PIPE	MAX.	MAX. BURY	MAX. BURY
Do - outside diameter of the	Di	B.q.	H	н
B _d = TRINICH WIDTH	mm ***********		(0.01 GRACK)	(0.01 GRACK)
H = BACKFILL COVER ABOVE	15"	4	9.5° 9.5°	14.5' 15.0'
TOP OF PIPE	24° 36°	4' 5.5'	12.0"	23.5'
r / A	34"	6'	10.5	18.0'
	+2" +5"	6.5	13.0"	19.0'
	54"	đ′ gʻ	13.0"	18.5' 18.0'
	72	10"	13.0"	19.0"
LOWER SIDE NOT SEE ON LOOSELS PROPERTY OF STREET ST	PEDITURE CAMPUM	HIS TA	ALE ASSUMES	TYPE 4 STONE BEDDING
Server Stor Los Mrs.	CAMPINA RECOLUMN	ls.	4	STORE BEDDING
10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	-40	. e	FILL OF I	×
MIDDLE BEDDING Do /8	\sim	0,0		<u> </u>
A DEDWARD	~	500		74
APT CONTRACTOR OF THE PROPERTY	18			2/0
" Magaine and a factor of the same and a facto				<i>iii</i>
L'E Le Mar	1000	V.		
	nd .	10		
GIVEN CONDITIONS				
/ ASSUMPTIONS:	J	10		74
* W = 120 pcf (BACKFILL LOAD)	45		Walter	
* SOL TIPE = 0.110	$A(\cdot)$	4		>
* SOIL TYPE = ORDINARY CLAY, SATURATED O/6 WALL B	13. E.			
A LANGER AND PROPERTY IN THE TOTAL OF THE PARTY OF THE PA	1	di.		ine.
* TRENCH CONDITIONS: TIPE 4 * TRENCH CONDITIONS SHOWN - THESE DEPTHS DO NOT APPLY		Abo		
FOR "EMBANKMENT CONDITIONS"			OUT.	(A)
NOPE TO DETERMINE H FOR EMBANKMENT CONDITIONS	6 _{MN.}		MARIE	R pr.
* DESIGN BASED ON "DESIGN DATA PERSPECTIVE	"MN.		/ Edu	POE VAR DOING
* CLASS C BEDDING			BEN	ONE SAME ACTUAL STATES
(1350 pH PER Ff OF INTERNAL DIA.) CLASS III. ASTM C- (2000 pH PER Ff OF INTERNAL DIA.) CLASS IV. ASTM C-	76 76		25 J	MG 12 HALL
				SE SEDDING SES AND COMPLETION SES AND COMPLETION SENSE SENSE SENSE SES SENSE SEN
NOTES:				
1. GREATER DEPTHS ARE ACHIEVABLE BY EITHER CONTROLLIN				- 11
NARROWING TRENCH WIDTH BUT SUPPLY SUFFICIENT ROOM IMPROVING BEDDING OR LOADING TO ULTIMATE LOAD (Du)	. FOR	OTHE	R BURY	
DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROV BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR TH	IDE CA	LCS O	N PIPE	
WHICH IT IS PROPOSED TO BE USED.				
2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A BEDDING, TYPE 4. LAYING CONDITIONS	CLAS	S C 3	TONE	
3. MINIMUM COYER NOT SHOWN				. []





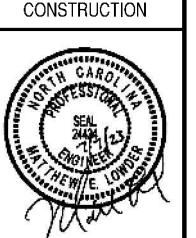


Wash Rocket
Arende
Project ID#

ION DETAIL

CONSTRUC

PRELIMINARY DO NOT



USE FOR

20/22|SITE PLAN SUBMITT 10/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMISS DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

C6.3C

PLAN STATUS

Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-51T.dwg

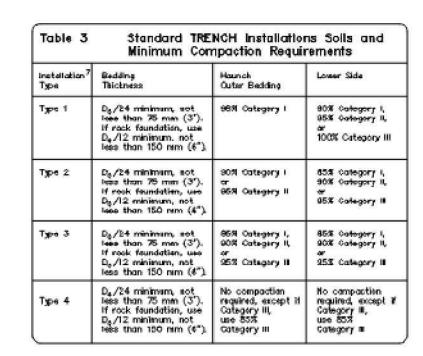
3. MINIMUM COVER NOT SHOWN
4. MAXIMUM BURY TABLE FOR "TRENCH CONDITIONS" FER THE DETAIL SHOWN THIS SHEET

STD. TRENCH INSTALLATION

FOR CONCRETE PIPE

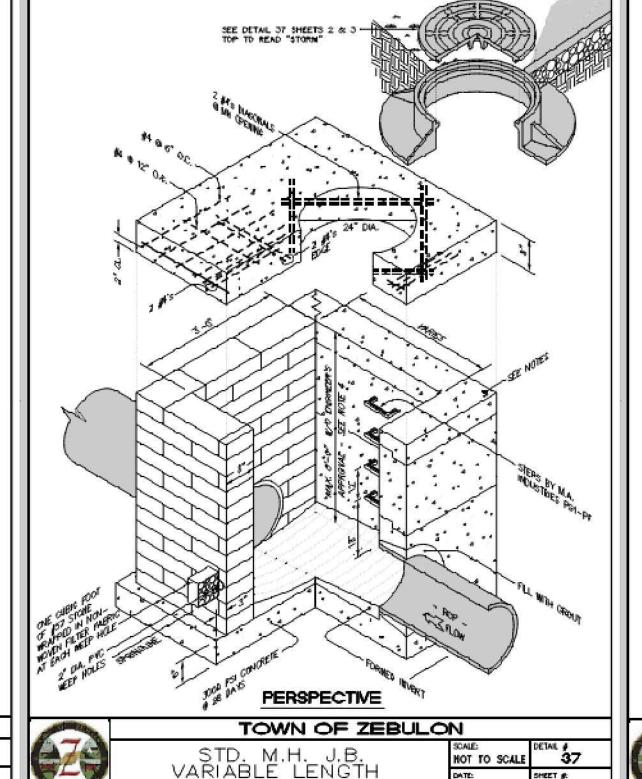
(FOR ENGINEER'S USE)
USE WITH STANDARD SPECIFICATIONS DRILY

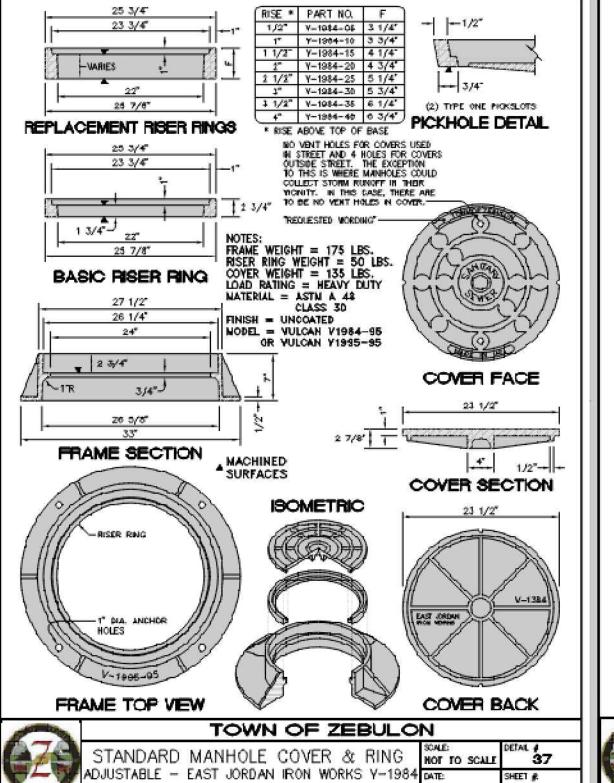
TOWN OF ZEBULON

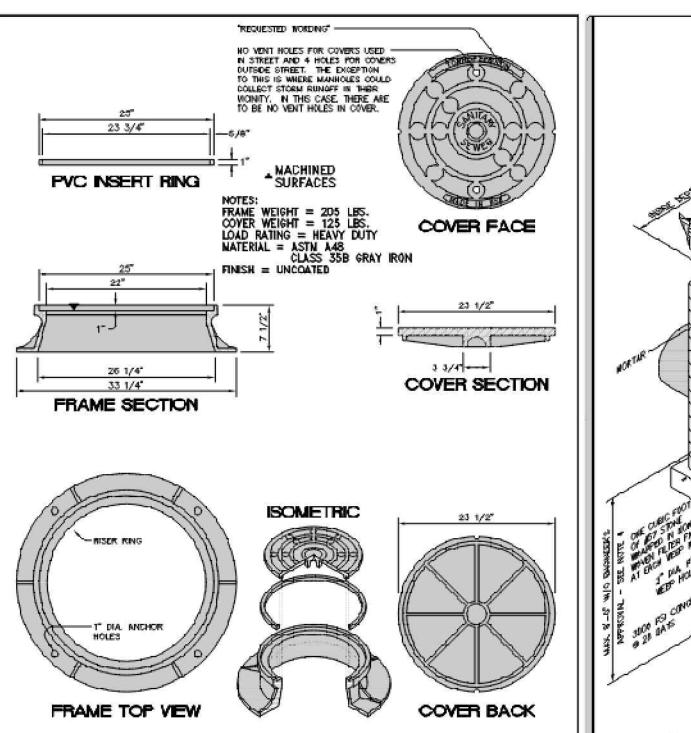


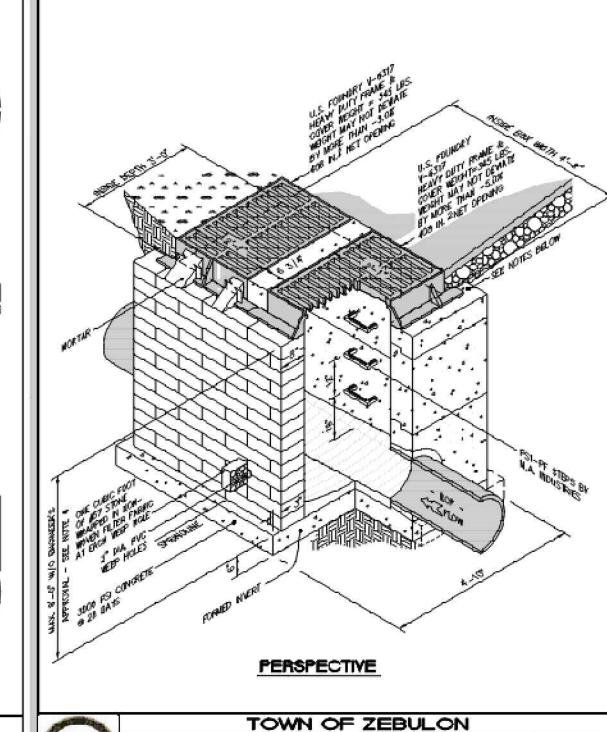
- Compaction and soils symbols i.e. "98% Category i" refers to Category i soil
 materials with minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proofer values.
- 2. The trench top elevation shall be no lower than 0.1 H below finished grade or, for roadways, its top shall be no lower than an elevation of 0.3 m (1") below the bottom of the povement base material.
- 3. Soil in bedding and haunch zones shall be compacted to at least the same
- compaction as specified for the majority of soil in the backfill zone.

 4. The trench width shall be wider than shown it required for adequate space to attain the specified compaction in the haunch and bedding zone. 5. For trench walls that are within 10 degrees of vertical, the compaction or firmness
- of the soil in the trench walls and lower side zone need not be considered. 6. For trench walls with greater than 10 degrees slopes that consist of embankment, the lower side shall be compacted to at least the same compaction as specified for the soil in the backfill zone.
- 7. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.





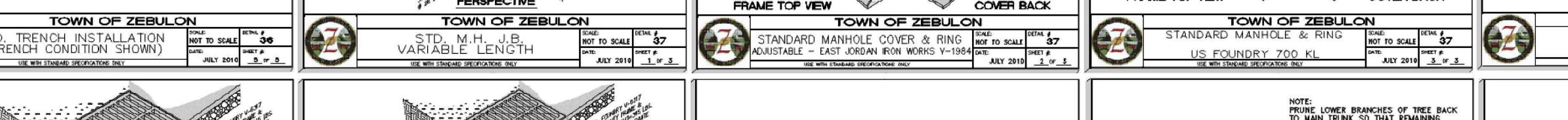


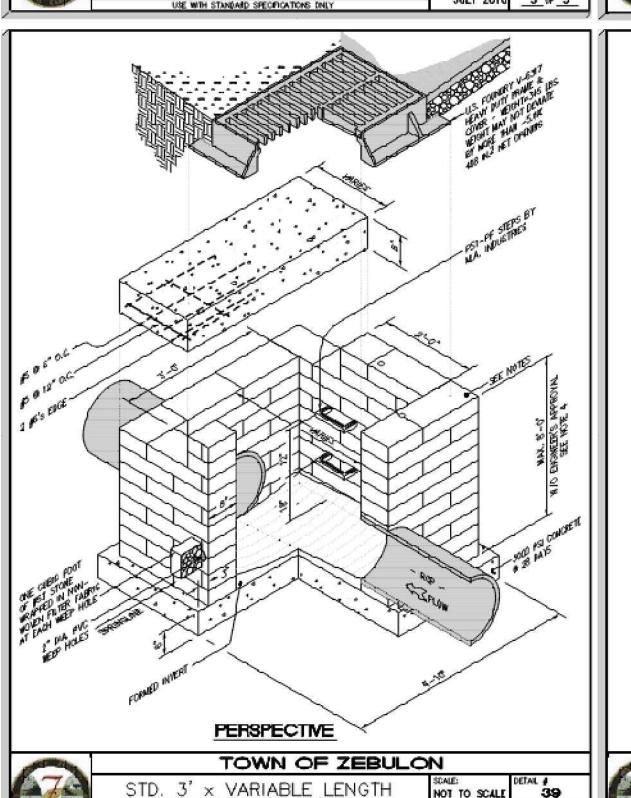


STD. MULTIPLE 2' x 3'

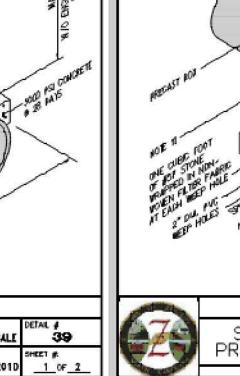
CATCH BASIN DETAIL

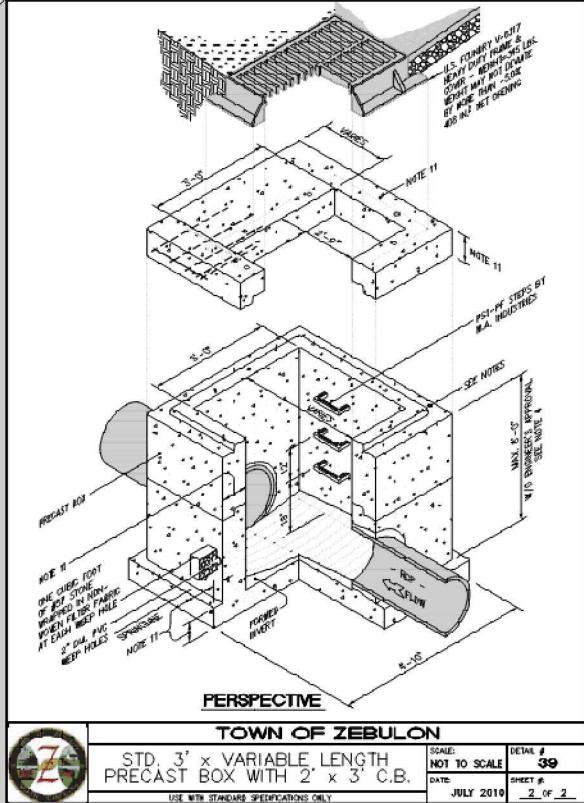
USE WITH STANDARD SPECIFICATIONS ONLY

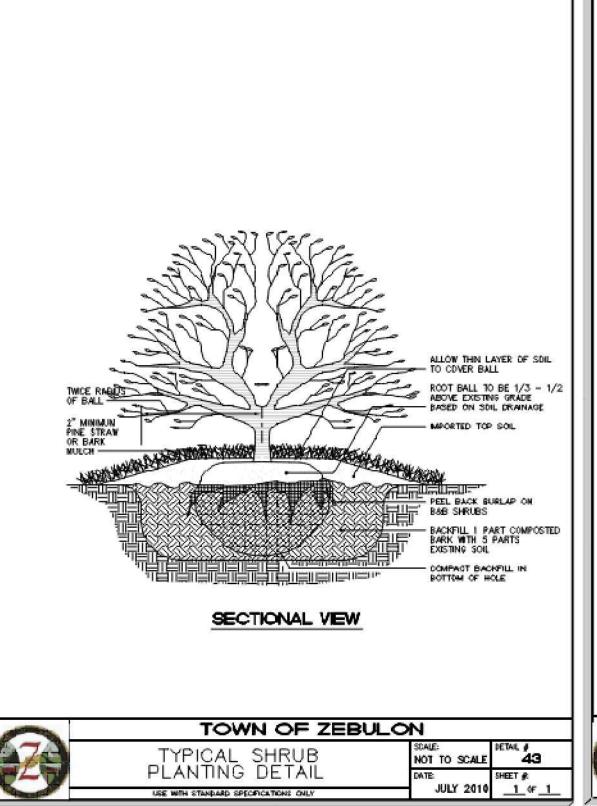


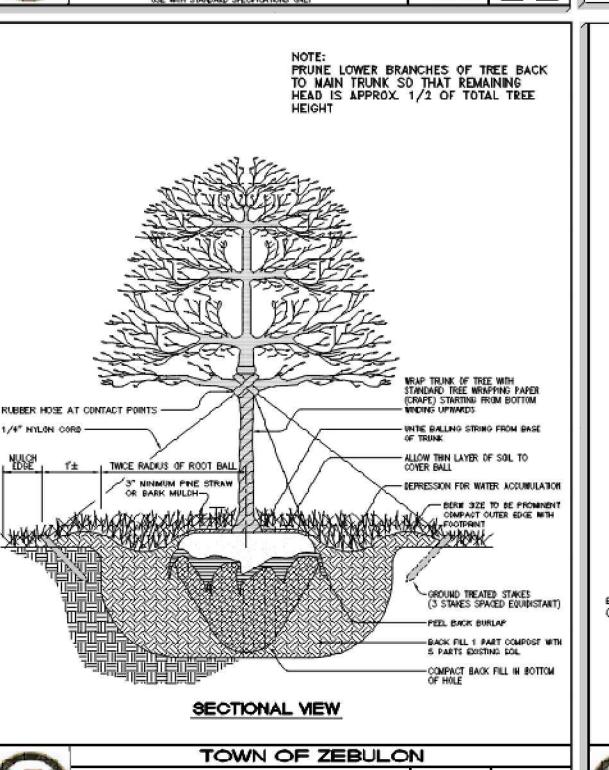


USE WITH STANDARD SPECIFICATIONS ONLY







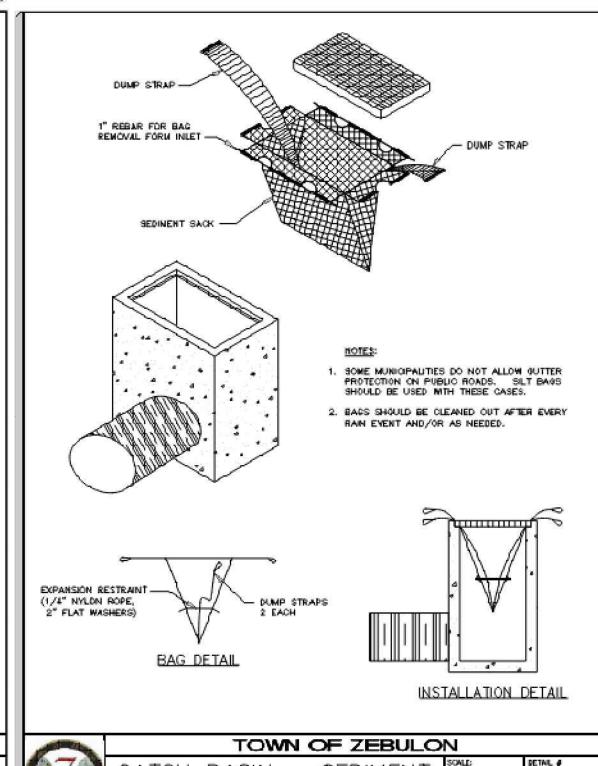


and PLANTING DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

NOT TO SCALE

JULY 2010 __1_0F_1



SCALE: IV

JULY 2010 1 or 1

	A STATE OF THE PARTY OF THE PAR	TOWN OF ZEBULO	N	
\Box	A7 3	CATCH BASIN - SEDIMENT	SCALE: NOT TO SCALE	50
٦	6-3	CONTROL DEVICES	DATE:	SHEET A
_		USE WITH STANDARD SPECIFICATIONS ONLY	JULY 2010	

PRELIMINARY DO NOT USE FOR CONSTRUCTION

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F	PLAN	STAT	JS
6/20/22	SITE	PLAN	SUBMITTAL
10/21/22	PER	TOWN	REVIEW
4/28/23	PER	TOWN	REVIEW
7/07/23	WAKE	COUNT	Y SUBMISSION
DATE	DI	ESCRIF	PTION
MEL		1EL	XXX

DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

C6.3D

Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-51T.dwg

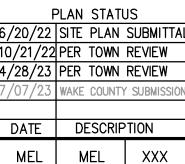
Wash Rocket Arende Project ID#

ION DETAIL

CONSTRUC

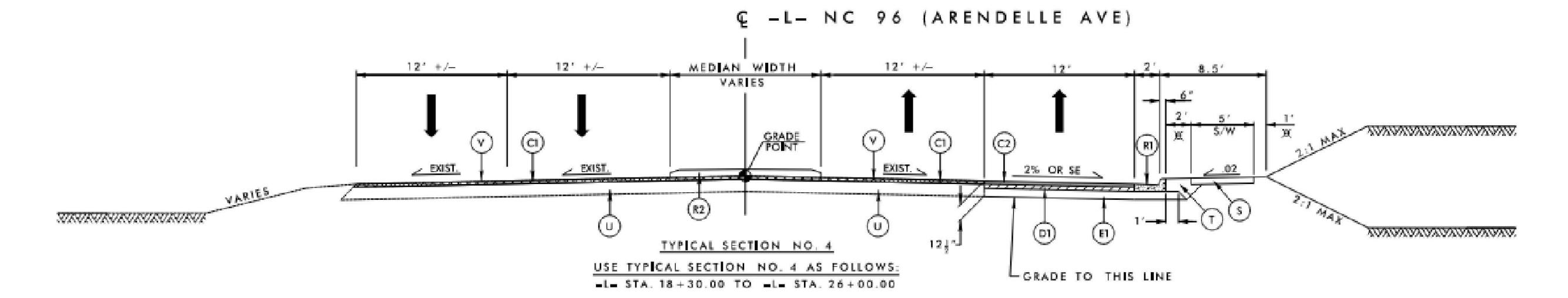
SECTIONS

CONSTRUCTION



DESIGN DRAWN CHKD

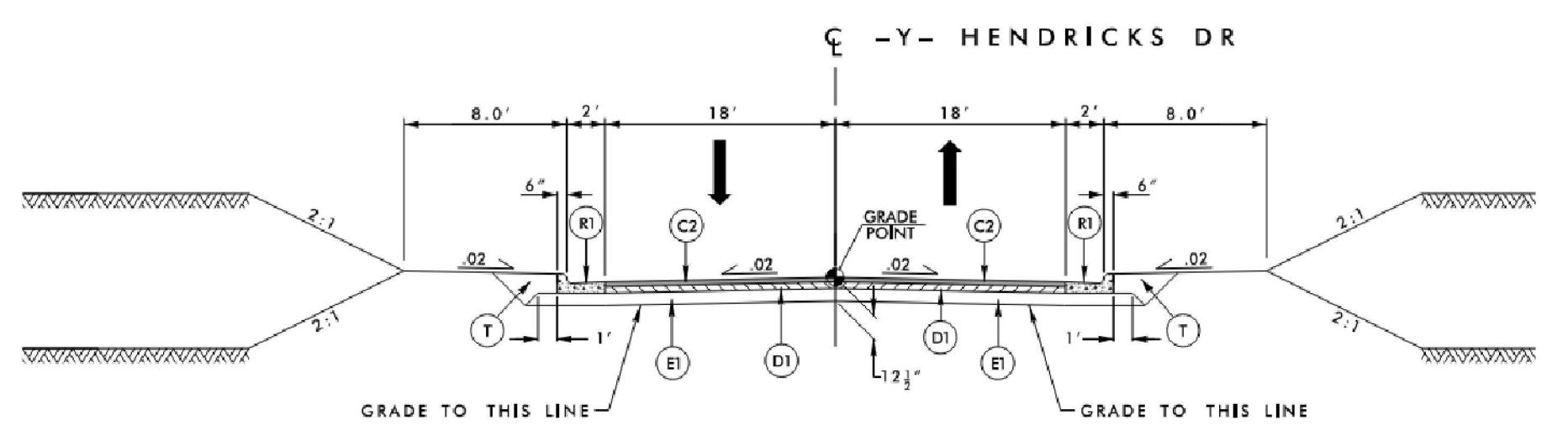
C6.3E



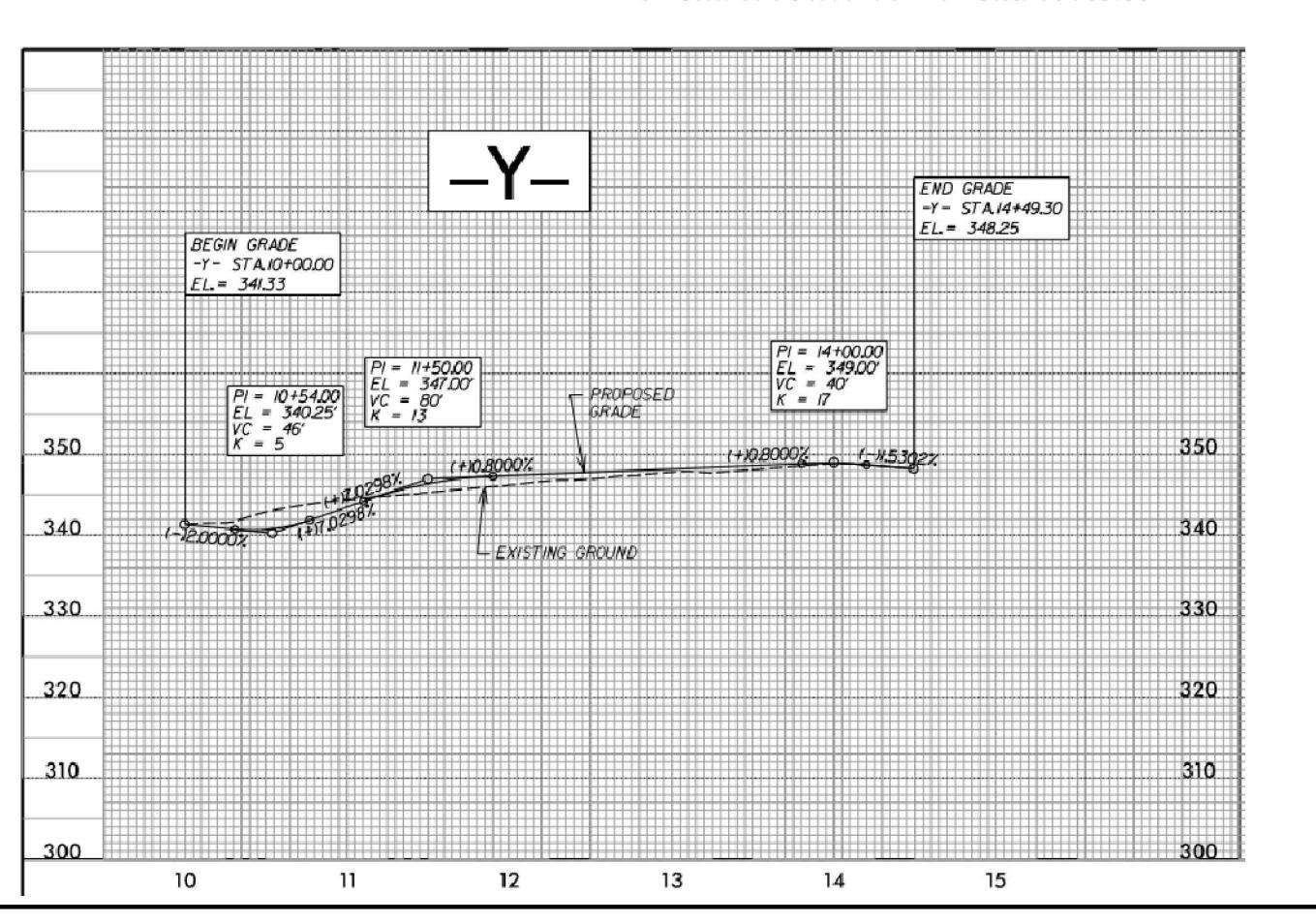
	PAVEMENT SCHEDULE
C1	1,5" S9_5C
C2	3" S9.5C
D1	4" I19.0C
D2	VAR I19.0C
E1	4″ B25∎0C
R1	2'-6" CURB & GUTTER
R2	CONCRETE MOUNTABLE MEDIAN
R3	2'-0" VALLEY GUTTER
S	4" CONCRETE SIDEWALK
Ţ	EARTH MATERIAL
U	EXISTING PAVEMENT
٧	MILL OF ASPHALT PAVEMENT AT 1.5" DEPTH. (REPLACE WITH 1.5" OF S9.5C)
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

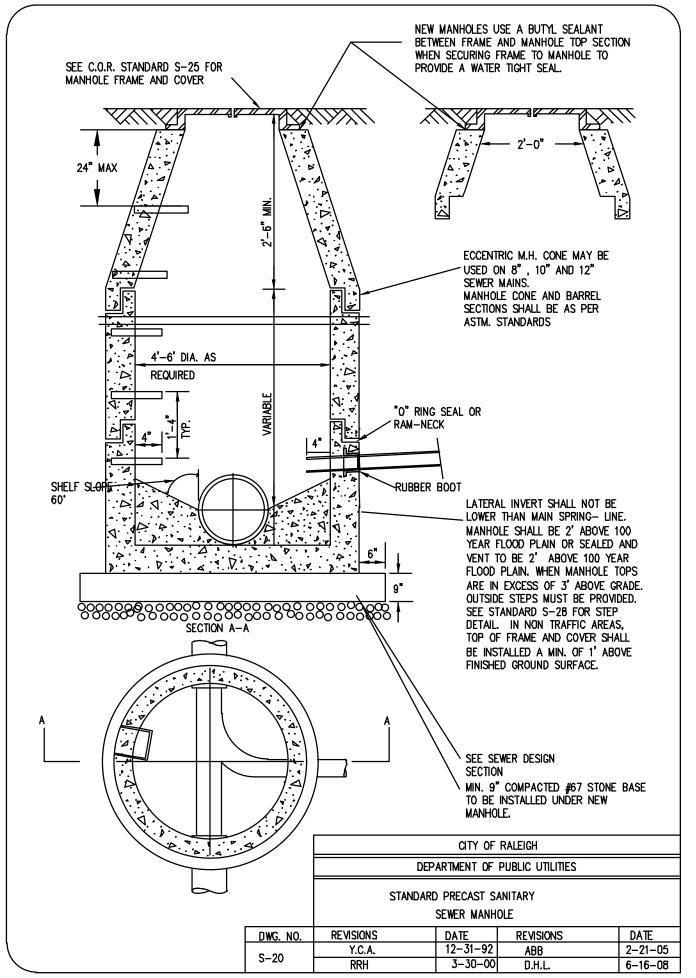
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

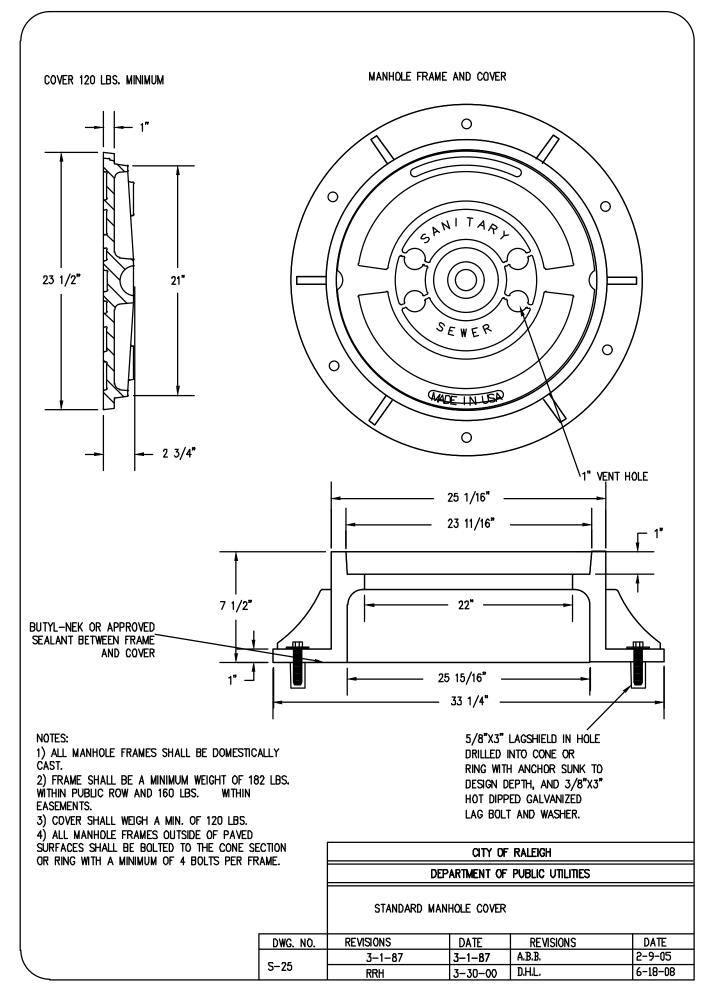
Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-51T.dwg

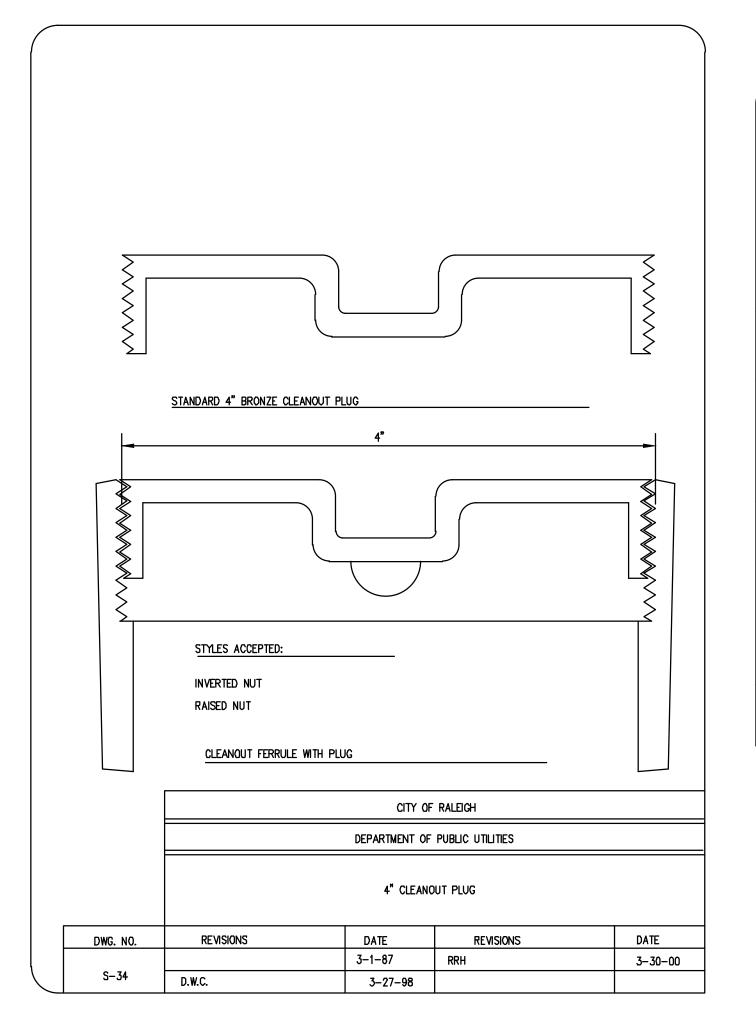


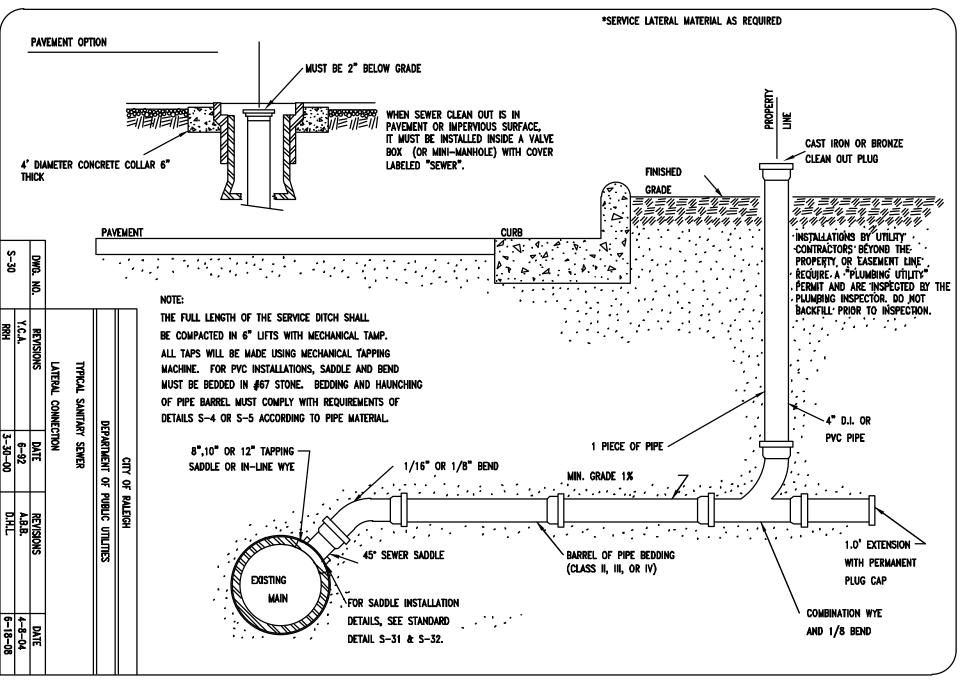
TYPICAL SECTION NO. 7 USE TYPICAL SECTION NO. 7 AS FOLLOWS: -Y- STA. 10+34.00 TO -Y- STA. 14+16.63

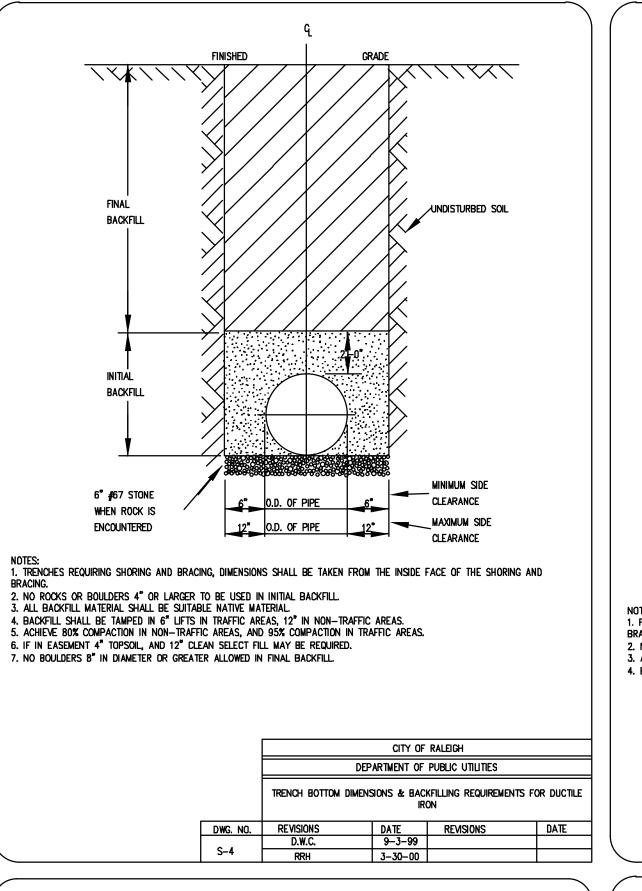


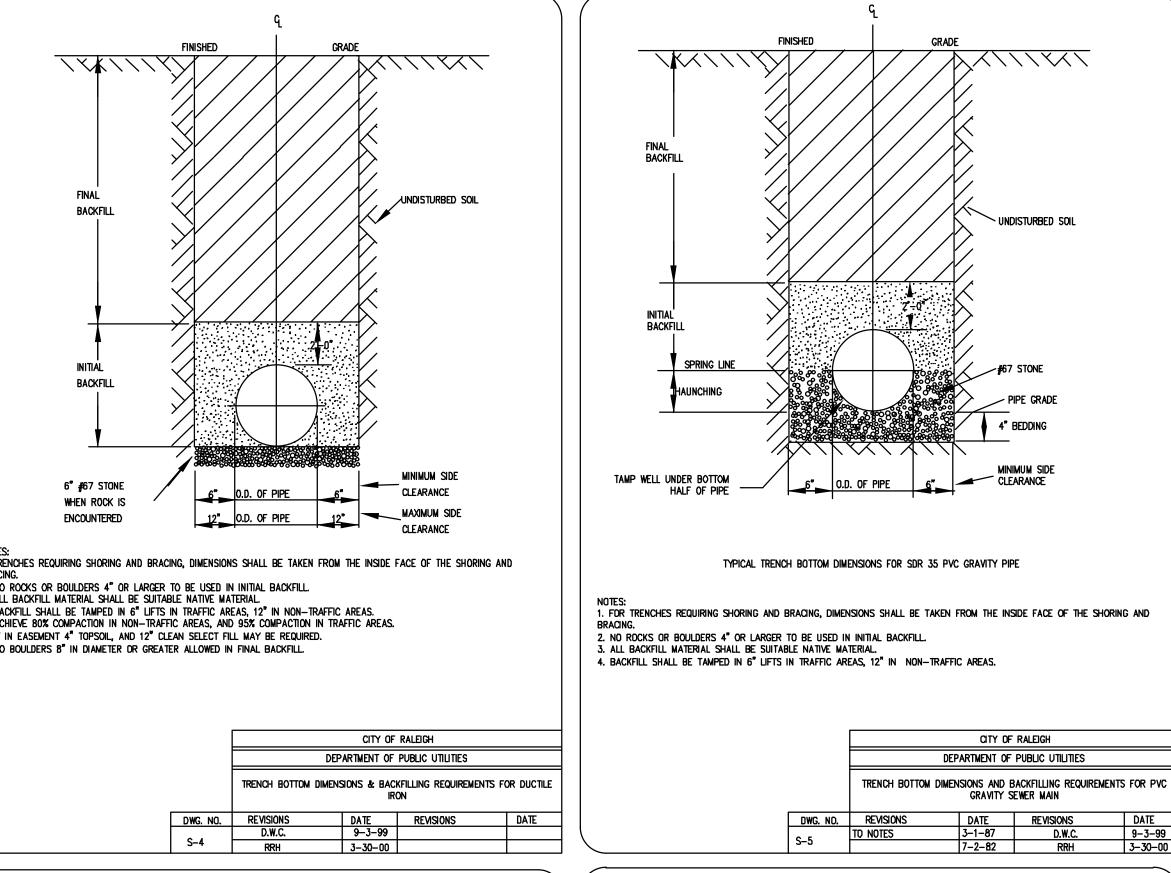


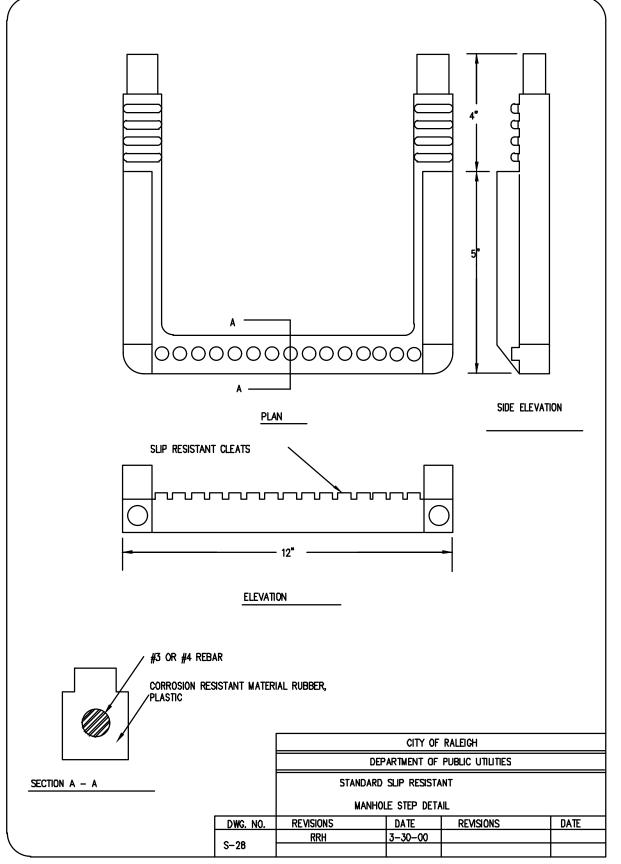


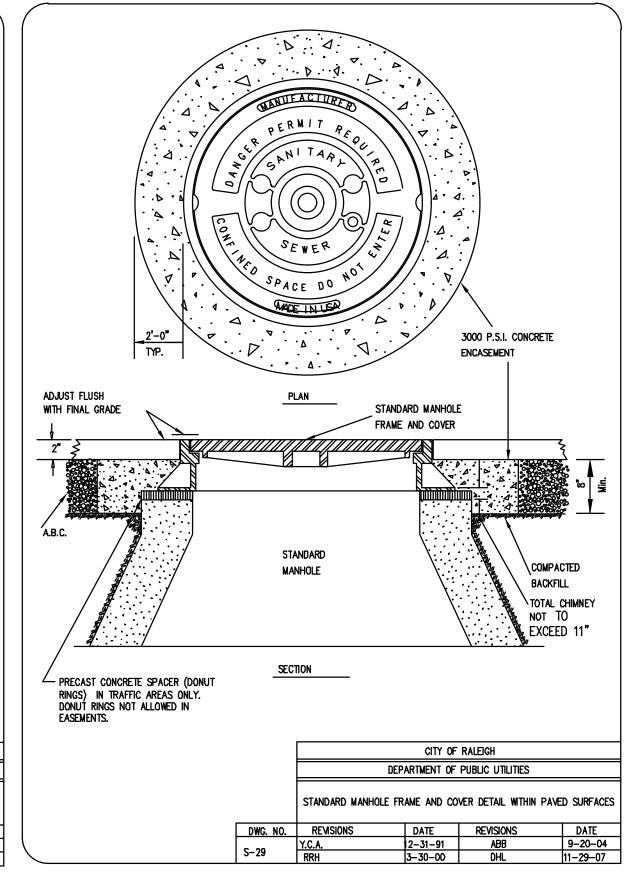














PUBLIC Sewer Collection/Extension System The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh
Public Utilities Department Permit # _____S.

Authorization to Construct

See digital signature

ATTENTION CONTRACTORS

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

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

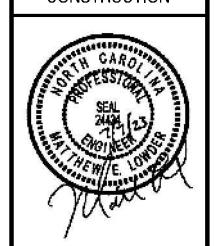
Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standardswill result in a Fine and Possible Exclusion from future work in the City of Raleigh

Wash Rocket
Arende
Project ID#

DETAIL(

SEWER

PRELIMINARY DO NOT USE FOR CONSTRUCTION



PLAN STATUS)/22|SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMISS DATE DESCRIPTION MEL DESIGN DRAWN CHKD SCALE DATE June 20, 2022 C6.4A



Phone: (919)553-6570 bowman.com

Vake County

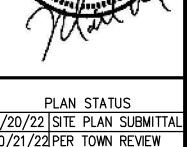
Rocket Wash Arendell Ave Project ID#796479

DETAIL(

SEWER

Zebulon, NC

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



4/28/23 PER TOWN REVIEW

7/07/23 WAKE COUNTY SUBMISSIO

DATE DESCRIPTION

MEL MEL XXX

DESIGN DRAWN CHKD

SCALE H:
V:

JOB No. 220094-01-002

DATE June 20, 2022

C6.4B

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

ATTENTION CONTRACTORS

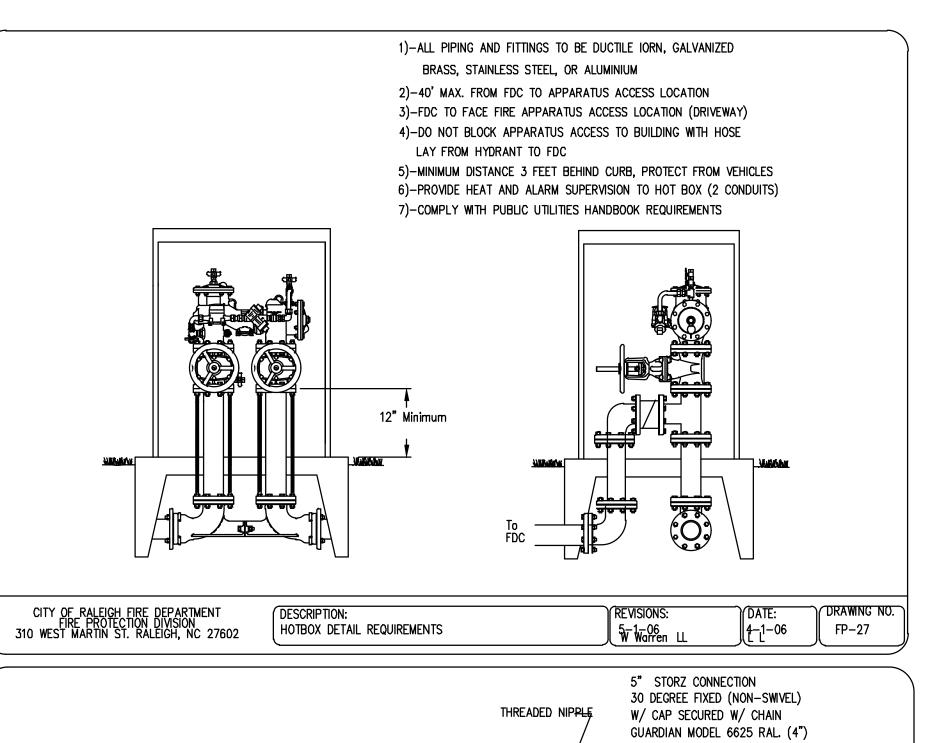
The Construction Contractor responsible for the extension of water,

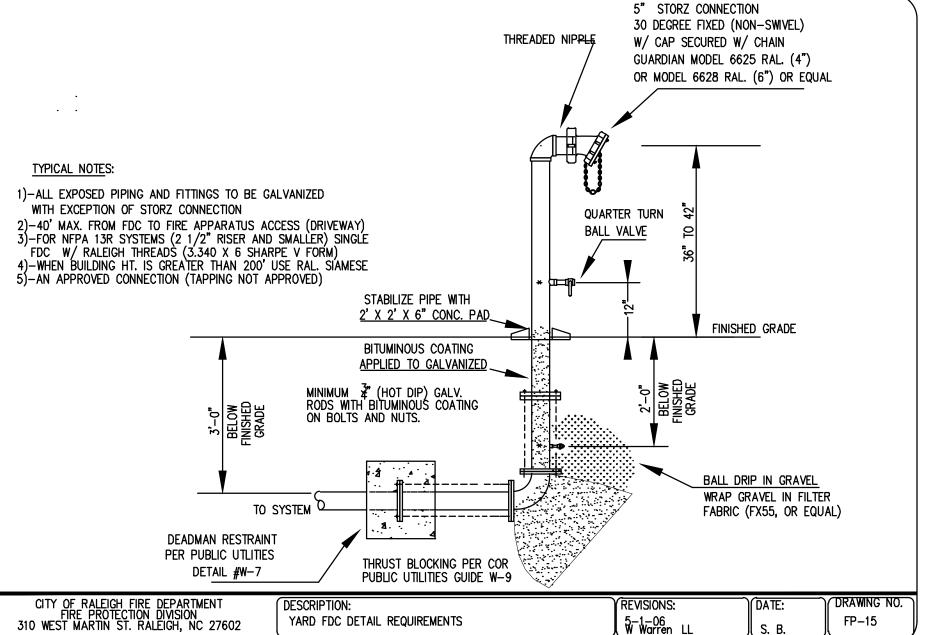
at least twenty four hours prior to beginning any of their construction.

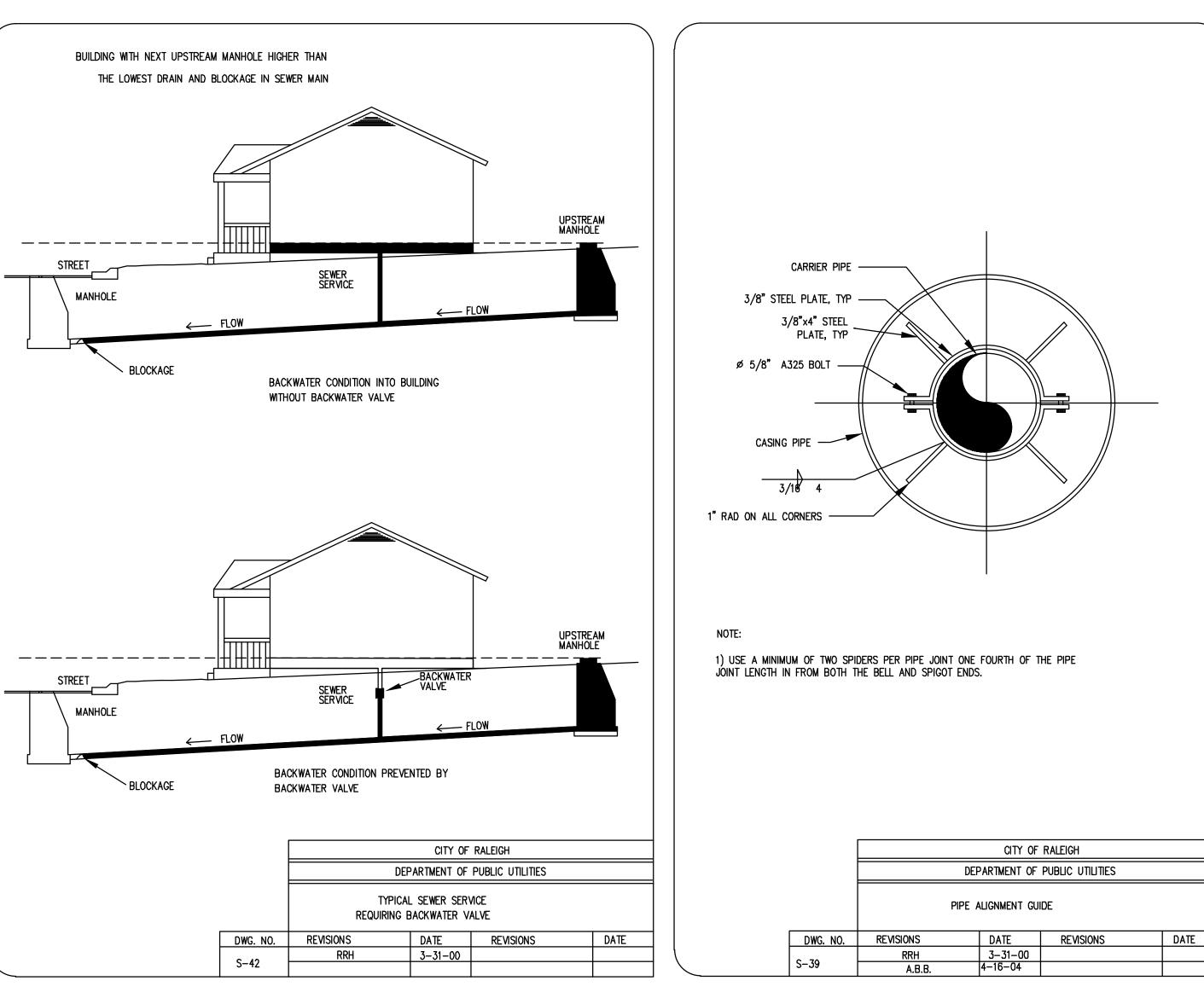
sewer, and/or reuse, as approved in these plans, is responsible for contacting the **Public Utilities Department** at (919)996-4540

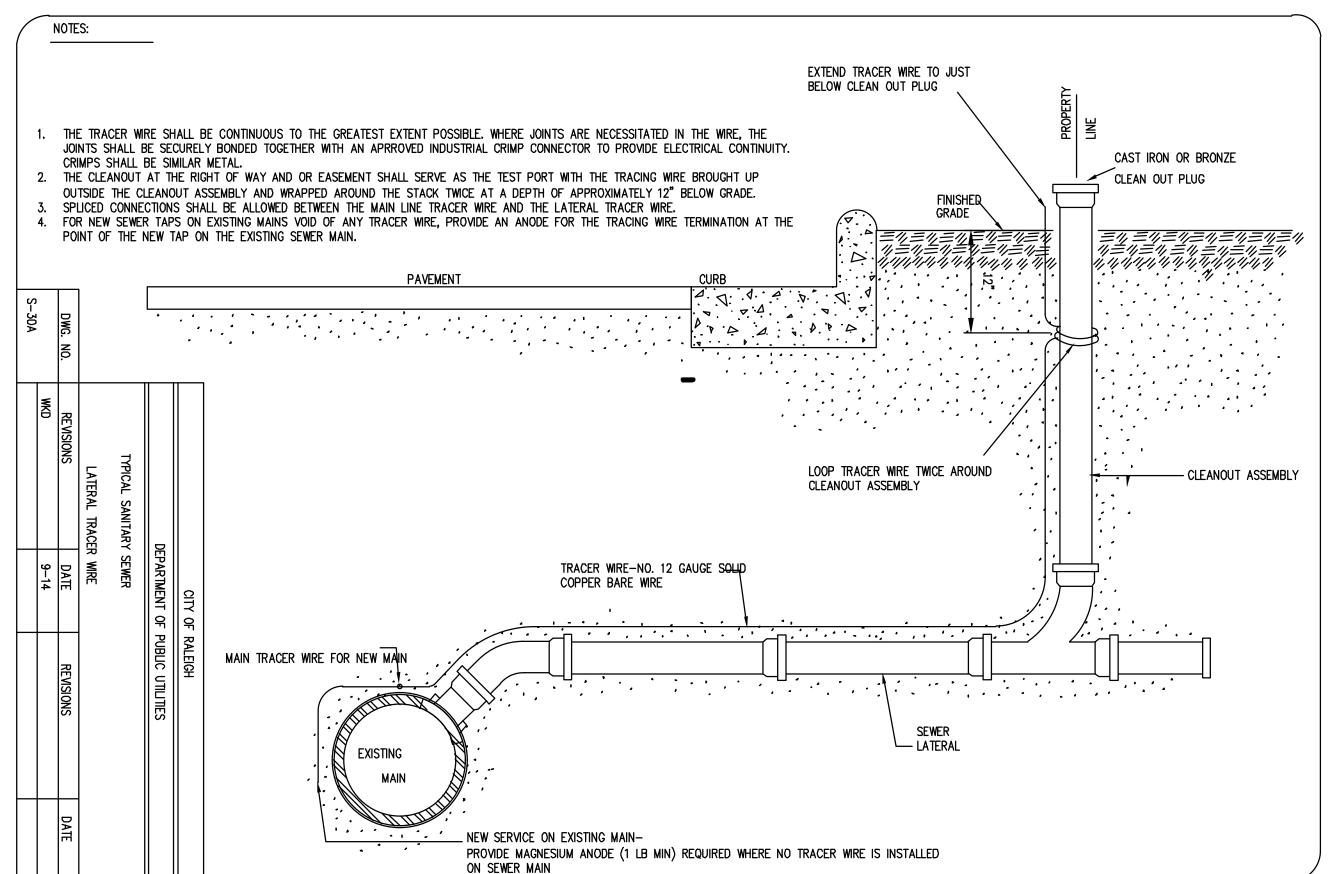
Failure to notify both City Departments in advance of beginning

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 from future work in the City of Raleigh.









Cad file name: V:\220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-UTP.dwg

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

City of Raleigh
Public Utilities Department Permit # ______

Authorization to Construct _____ See digital signature ______

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City of Raleigh
Public Utilities Department Permit #

See digital signature

PUBLIC

Sewer Collection/Extension System



Wash Rocket Arende Project ID#

DETAIL(

SEWER

PRELIMINARY DO NOT USE FOR CONSTRUCTION

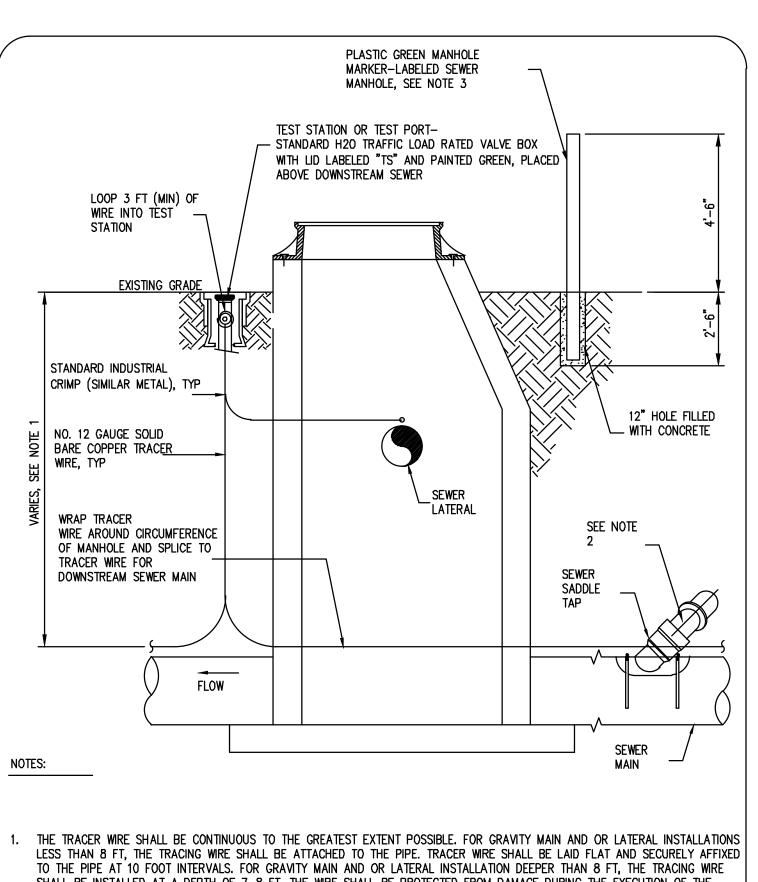


10/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMISS DATE DESCRIPTION MEL XXX DESIGN DRAWN CHKD

C6.4C

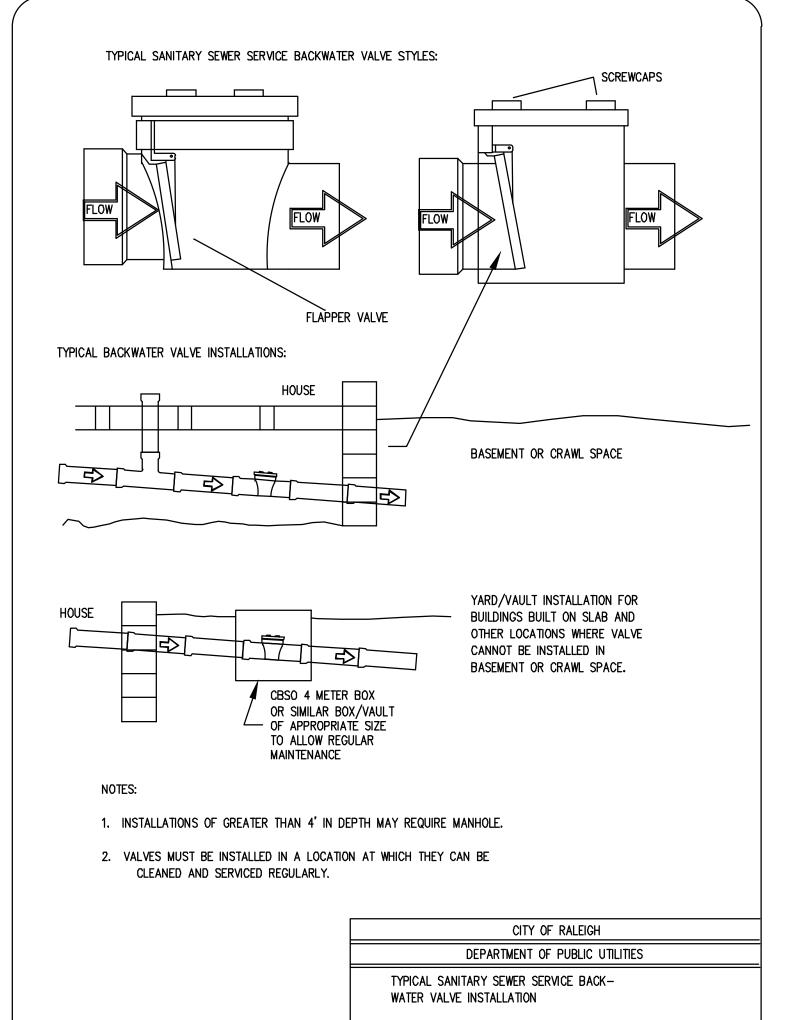
PLAN STATUS '20/22|SITE PLAN SUBMITTA

DATE June 20, 2022



- SHALL BE INSTALLED AT A DEPTH OF 7-8 FT. THE WIRE SHALL BE PROTECTED FROM DAMAGE DURING THE EXECUTION OF THE WORK. NO BREAKS OF CUTS IN THE TRACER WIRE SHALL BE PERMITTED.
- WHERE LATERAL TAPS ARE MADE BY SERVICE SADDLES, THE TRACER WIRE SHALL NOT BE ALLOWED TO TO BE PLACED BETWEEN THE SADDLE AND MAIN.
- . MANHOLE MARKERS SHALL BE PLACED ADJACENT TO MANHOLES AT THE DISCRETION OF OWNER OR OWNER'S REPRESENTATIVE.

			CITY OF	RALEIGH				
		DEPARTMENT OF PUBLIC UTILITIES						
	GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER							
DWG. NO.	REVISIONS		DATE	REVISIONS		DATE		
S-20A	WKD		09-14					
J-20A								



DWG. NO.

REVISIONS

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

DATE REVISIONS

City of Raleigh Public Utilities Department Permit # W See digital signature Authorization to Construct

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PUBLIC

conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh
Public Utilities Department Permit # ______S. See digital signature Authorization to Construct

Cad file name: V:\220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering plans\construction documents\220097-01-002-UTP.dwg

NOTE: WHEN WATERTIGHT NOT SPECIFIED, TOP SHALL

TYPICAL CAM LOCK MANHOLE

TYPICAL LOCKING DEVICE

DWG. NO. REVISIONS

FINNED GASKET IN VERTICAL FACE OF COVER

TO MAKE WATERTIGHT.

STANDARD - PENTAGON HEAD S.S.

OPTIONAL — S.S. HEX HEAD BOLT

RING MUST BE ANCHORED

IN ACCORDANCE WITH S-25

1/2" DIA x 1 3/4"

BOTTOM OF FRAME

/BOTTOM OF COVER

CITY OF RALEIGH

DEPARTMENT OF PUBLIC UTILITIES

REVISIONS

WATER-TIGHT MANHOLE FRAME

WITH CAM LOCK COVER

DATE

POSITION

POSITION

DATE

WIPER GASKET

(2) CAM LOCKS

SHALL HAVE ONE 1" VENT HOLE.

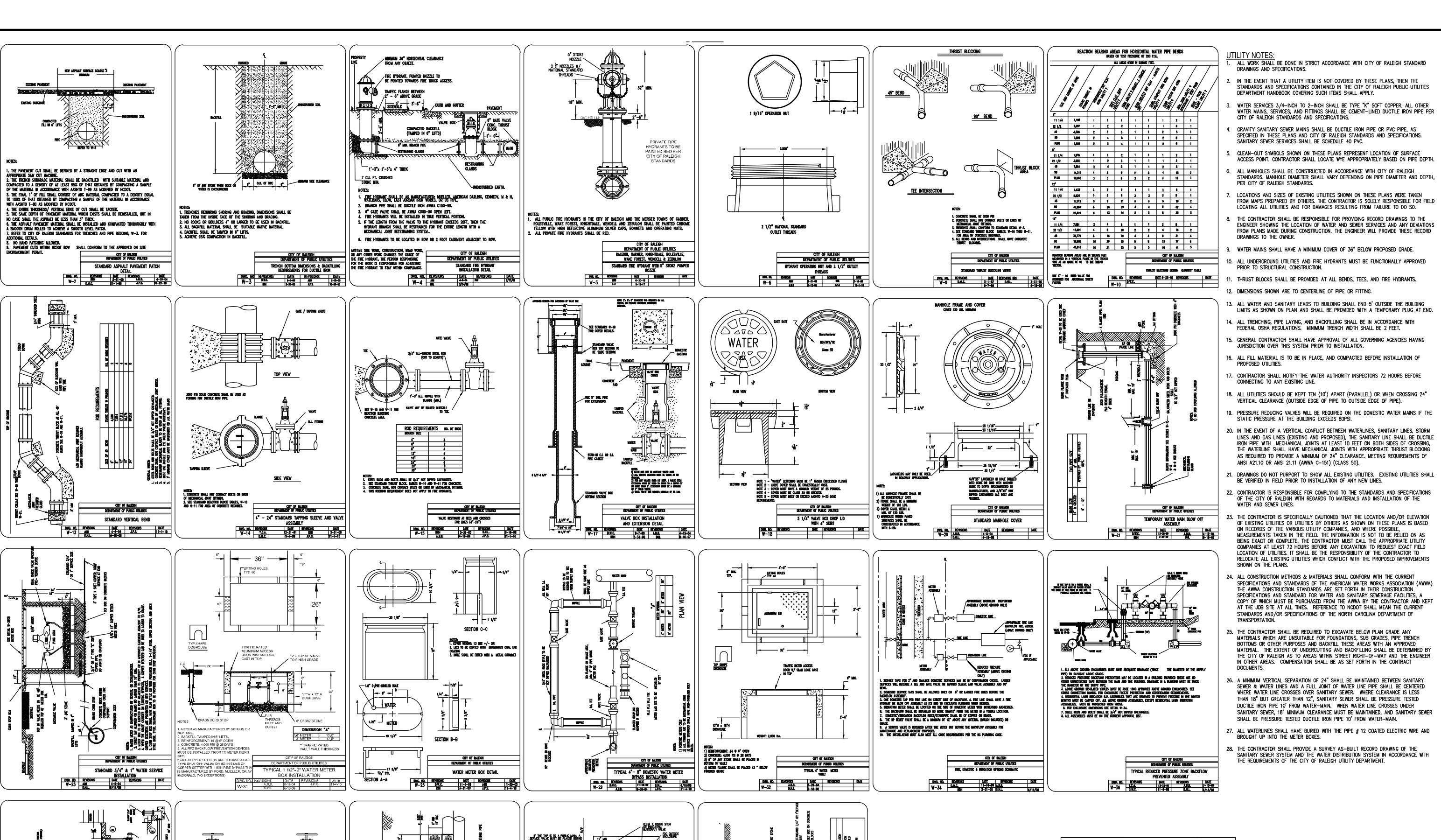
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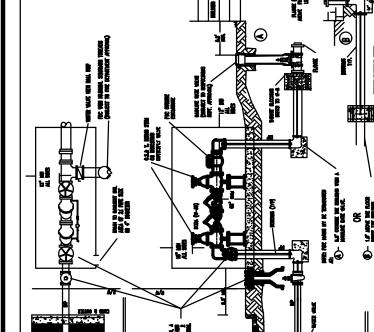
ATTENTION CONTRACTORS

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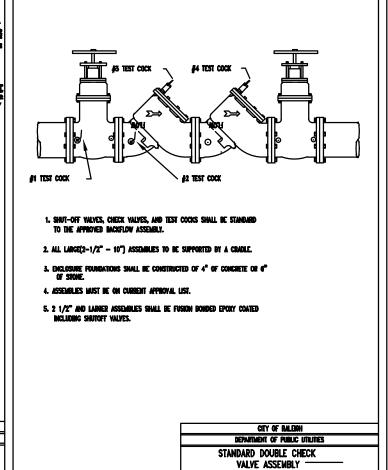
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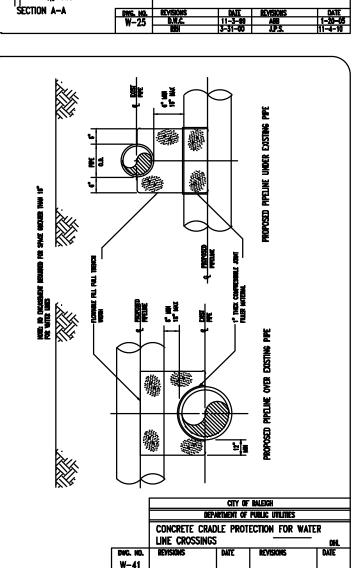


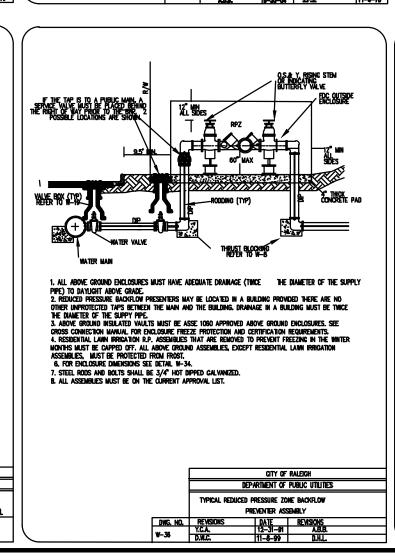


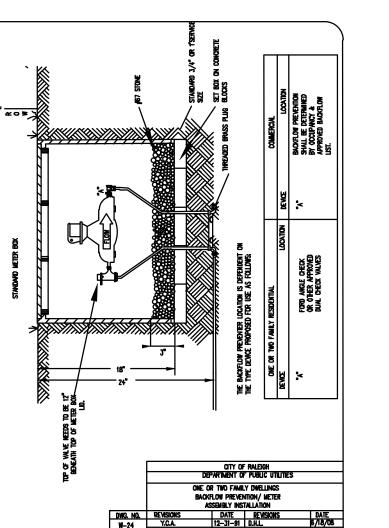
YPICAL FIRE MAIN DOUBLE DETECTOR CHECK

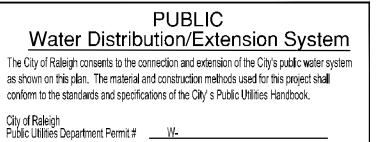


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See digital signature Authorization to Construct

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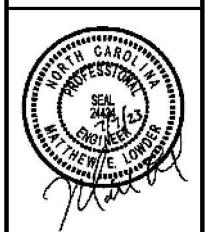
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Wash Rocket
Arende

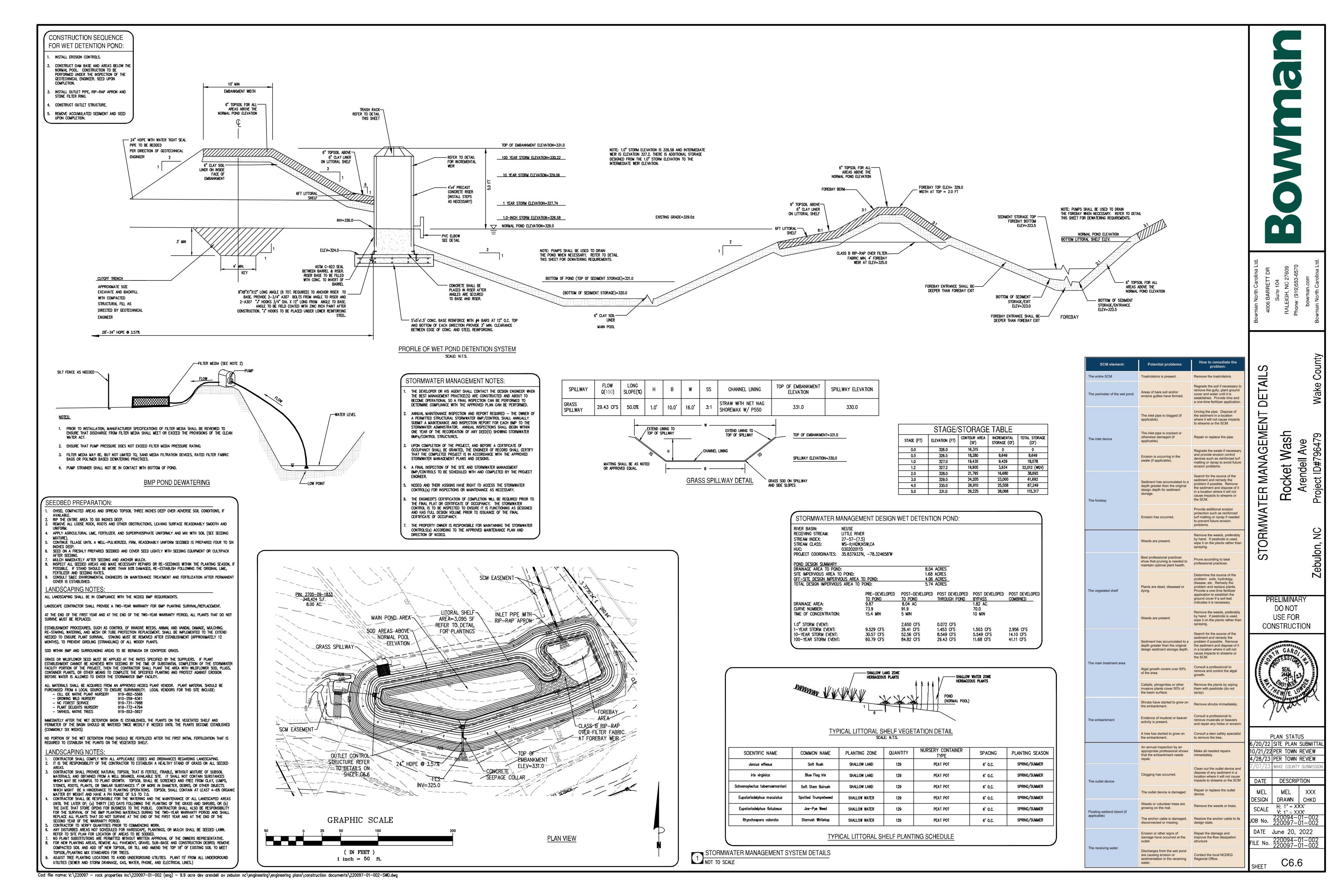
WATER

PRELIMINARY DO NOT USE FOR CONSTRUCTION

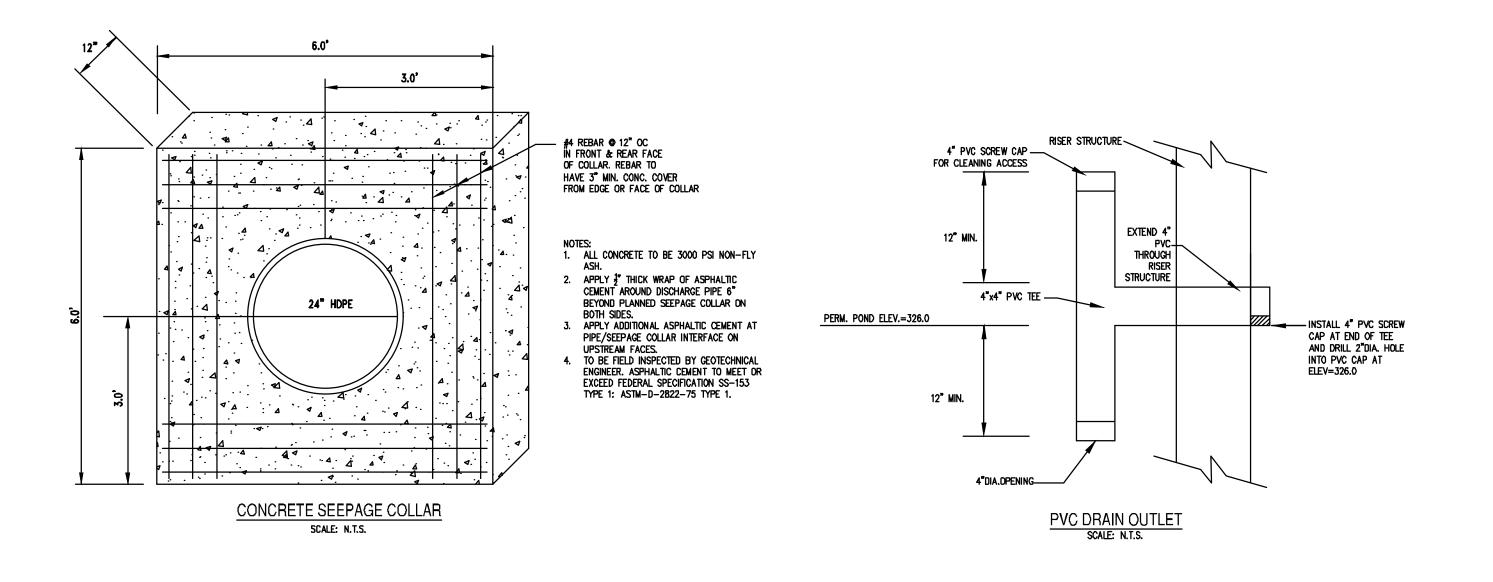


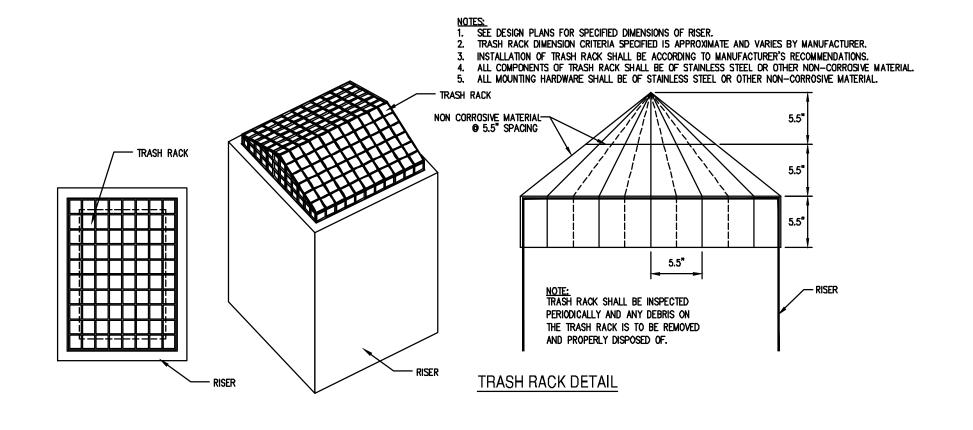
PLAN STATUS /22|SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022 C6.5

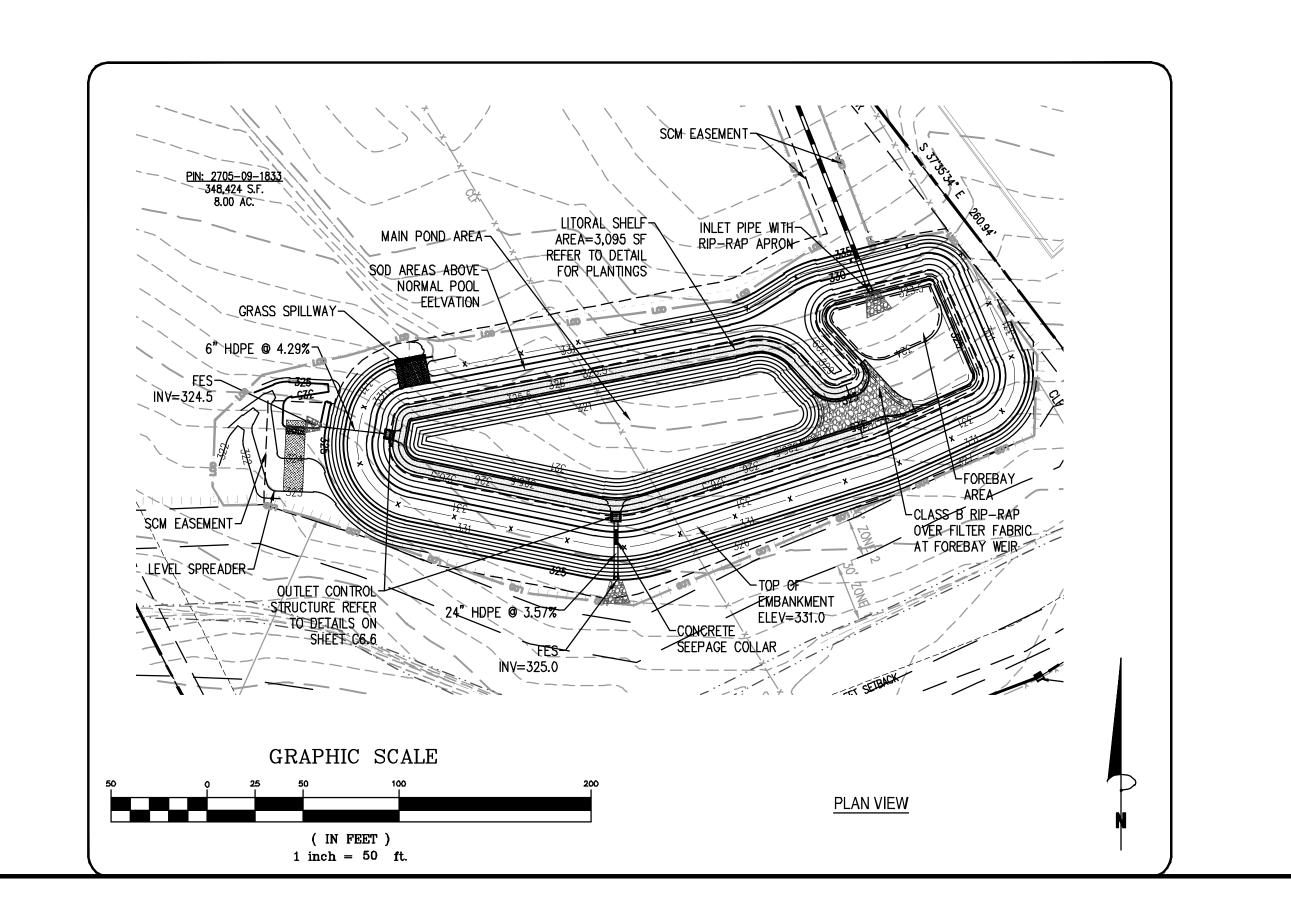
SHEET



SECTION F-F









Suite 104 RALEIGH, NC 27609 Phone: (919)553-6570

Rocket Wash
Arendell Ave
Project ID#796479

NAGEMENT DETAIL

STORMWATER MAI

PRELIMINARY

DO NOT

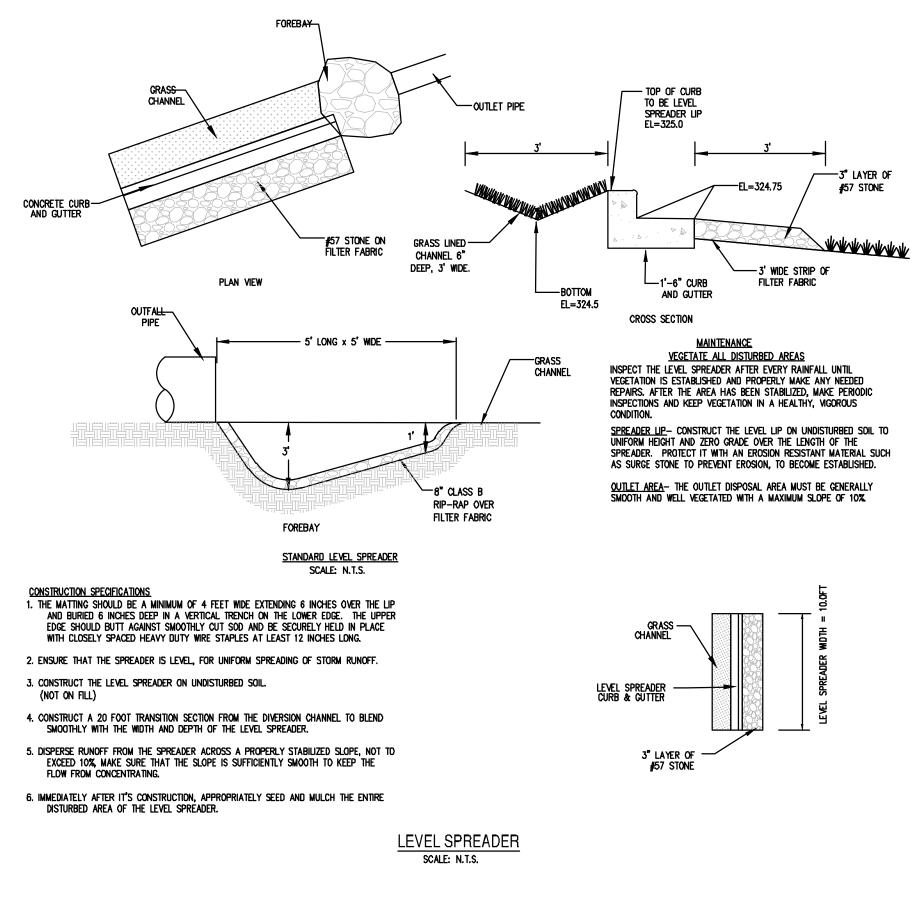
F	PLAN STA	ATUS
		N SUBMITTAL
10/21/22	PER TOW	N REVIEW
4/28/23	PER TOW	N REVIEW
7/07/23	WAKE COU	NTY SUBMISSION
DATE	DESC	RIPTION
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H; 1" = V: 1" =	XXX' XXX'

FILE No. 220094-01-00 220097-01-00 SHFET **C6.**7

DATE June 20, 2022

Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering plans\construction documents\220097-01-002-SWD.dwg

in the receiving water.



GRASS SHALL BE EITHER HYBRID BERMUDA GRASS OR CENTIPEDE

1. Inspect the SCM after every runoff-producing rainfall event. J. Monthly Inspection
1. Inspect the SCM monthly 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. 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 diseased trees and shrubs that are not beyond treatment as needed. 1. Inspect the collection system (i.e. catch basin, pipes and grass swales) for proper functioning. Clear accumulated trash from basin grates and basin bottoms. Check piping 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 where accumulated sediment is noted. 2. Inspect the embankment taking note of any wet areas where water may be seeping 1. Maximum grass height is to be 6in. 2. No woody vegetation shall be allowed to grow in the bio-retention area. 3. Debris shall be removed from blocking the inlet and outlet structures and from areas 5. All components of the level spreader-filter strip system must be kept in good

VEGETATIVE FILTER STRIP - SOIL MIXTURE

PERCENT BY WEIGHT

<u>SOIL MIXTURE:</u> SHALL BE PLACED AND GRADED USING LOW GROUND—CONTACT PRESSURE

OR AFTER THE PLACEMENT OF THE SOIL MIXTURE. THE SOIL MIXTURE SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 4 INCHES FOR THE ENTIRE AREA OF THE

VEGETATIVE FILTER STRIP FACILITY. IF THE SOIL MIXTURE BECOMES CONTAMINATED

CONTAMINATED MATERIAL SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED

MATERIAL AT NO ADDITIONAL COST. FINAL GRADING OF THE VEGETATIVE FILTER STRIP SHALL BE PERFORMED AFTER A 24—HOUR SETTLING PERIOD. FINAL ELEVATIONS SHALL

THE SOIL MIXTURE SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUDING MULCH. ND OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE VEGETATIVE FILTER STRIP AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO

PRIOR TO PLACING THE SOIL MIXTURE, THE BOTTOM OF THE EXCAVATION SHALL BE RDTO-TILLED TO A MINIMUM DEPTH OF 6 INCHES TO ALLEVATE ANY COMPACTION OF

THE FACILITY BOTTOM. ANY SUBSTITUTE METHOD FOR ROTO—TILLING MUST BE APPROVED

BY THE ENGINEER PRIOR TO USE. ANY PONDED WATER SHALL BE REMOVED FROM THE

BOTTOM OF THE FACILITY AND THE SOIL SHALL BE FRIABLE BEFORE ROTO-TILLING.

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.

EQUIPMENT OR BY EXCAVATORS AND/OR BACKHOES OPERATING ON THE GROUND ADJACENT TO THE VEGETATIVE FILTER STRIP FACILITY. NO HEAVY EQUIPMENT SHALL BE USED WITHIN THE PERIMETER OF THE VEGETATIVE FILTER STRIP FACILITY BEFORE, DURING

85-88%

8%-12%

MATERIAL

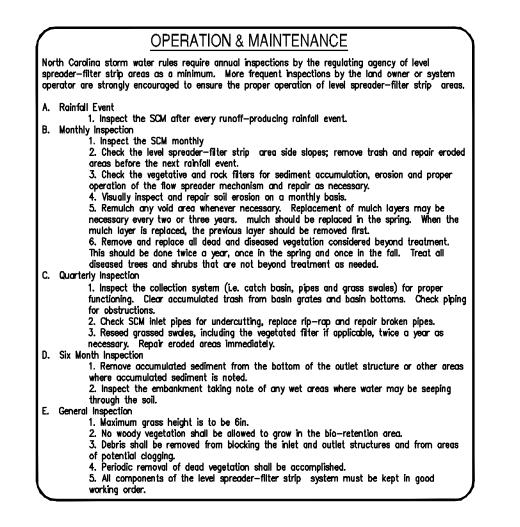
CONSTRUCTION SAND

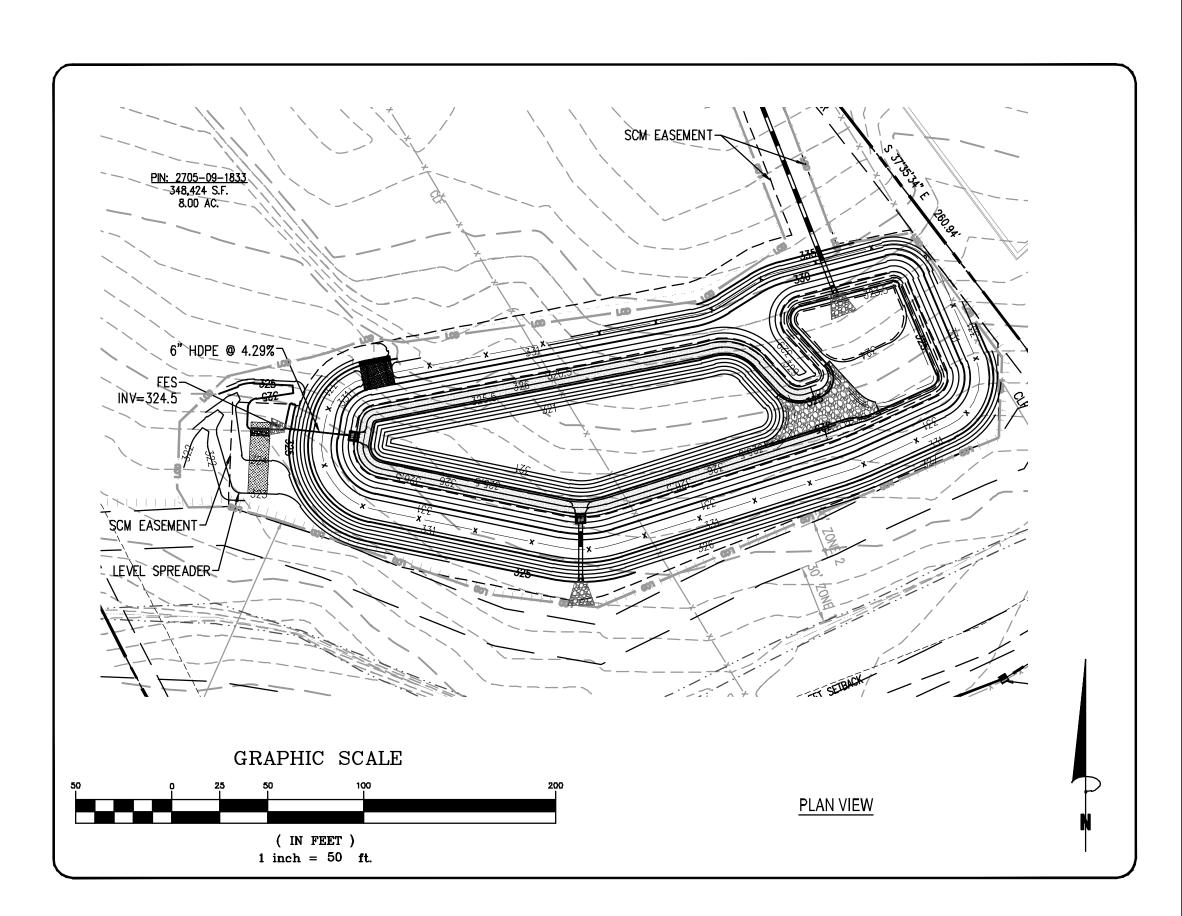
COMPOST/PEAT MOSS

VEGETATIVE FILTER STRIP SCALE: N.T.S.

SOIL MIXTURE

ORGANIC MATTER





VEGETATED FILTER STRIP LENGTH =30 FT

PLAN VIEW

CROSS-SECTION

filter strip

-NATIVE SOIL, NO

SOIL MIXTURE REQUIREMENTS

COMPACTION. ROTO-TILL SOIL PER



DETAIL

VAGEMENT

STORMWATER MA

Wash cocket Arende oject ID# ď

PRELIMINARY DO NOT USE FOR CONSTRUCTION



PLAN STATUS /22|SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022 C6.8

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Rocket
Arende

R

LANDSC/

PRELIMINARY DO NOT

CONSTRUCTION

USE FOR

PLAN STATUS /22|SITE PLAN SUBMIT 1/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW WAKE COUNTY SUBMIS DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD

SCALE DATE June 20, 2022

C7.0

LANDSCAPE NOTES: HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.

BEFORE YOU DIG N.C. ONE-CALL CENTER IT'S THE LAW

SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHAL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.

TREES OVER 2" CALIPER MUST BE STAKED AND TIED.

LANDSCAPING NOTES:

ON ALL SEEDED AREAS.

IRRIGATION NOTE

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL REQUIRED LANDSCAPING FOR THE ENTIRE SITE, TO INCLUDE BUT NOT LIMITED TO: SODDED/SEEDED AREAS, SHRUB BEDS, PARKING LOT ISLANDS, ROADSIDE SIGN BASE(S) AND MONUMENT PLANTERS.

- 2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES REGARDING LANDSCAPING.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A HEALTHY STAND OF GRASS
- 4. IN THE EVENT THAT PLANTING BEDS AND MULCH ARE REQUIRED, THE CONTRACTOR SHALL INSTALL BLACK FABRIC WEED BLOCK LANDSCAPE MESH UNDER THE MULCH TO PREVENT WEED
- 5. 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.
- 6. 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 BUILDINGS OPEN FOR BUSINESS TO THE
- 7. GENERAL CONTRACTOR IS TO CLEAN ENTIRE SITE OF ALL CONSTRUCTION DEBRIS AND RAKE ALL GRASS AREAS.
- 8. PROVIDE LANDSCAPE PLANS TO OWNER AND AS REQUIRED BY LOCAL JURISDICTION TO THE BLDG. DEPT. FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.
- 9. ALL LANDSCAPING, TRESS, SHRUBS, ETC. SHALL NOT INTERFERE WITH THE VISIBILITY OF PROJECT SIGNAGE
- 10. CONTRACTOR TO VERIFY QUANTITIES PRIOR TO COMMENCING WORK.
- 11. OPEN AREAS WITHIN PLANTING BEDS SHALL BE MULCHED.

GENERAL LANDSCAPE NOTES

- 1. ANY DISTURBED AREAS NOT SCHEDULED FOR HARDSCAPE, PLANTINGS, OR MULCH SHALL BE SEEDED LAWN.
- 2. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.
- 3. ALL PLANT AND BED LINE LOCATIONS SHALL BE STAKED IN THE FIELD AND APPROVED BY THE THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 4. ALL PLANTINGS SHALL BE INSTALLED WITH THE SPECIFIED LAYER OF MULCH. REFERENCE
- DETAILS AND SPECIFICATIONS FOR DEPTH AND TYPE OF MULCH. ALL TREES AND SHRUBS SHALL BE PLANTED IN MULCH BEDS AND SHALL BE SEPARATED FROM TURF GRASS AREAS.
- 5. GRASS COVERAGE TO EXTEND FROM PROPERTY LINES TO BACK OF CITY SIDEWALKS AND/OR
- 6. MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER (FOR SINGLE STEM TREES). ALL MULTI-STEM PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 8 FEET TALL.
- 7. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM
- 8. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE 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.
- 9. LARGE MATURING TREES MAY NOT BE PLANTED WHERE THERE ARE OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CALL URBAN FORESTER TO RESOLVE BEFORE PLANTING.
- 10. ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES. PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS, WATER, PHONE, AND ELECTRICAL LINES.)

AS SHOWN

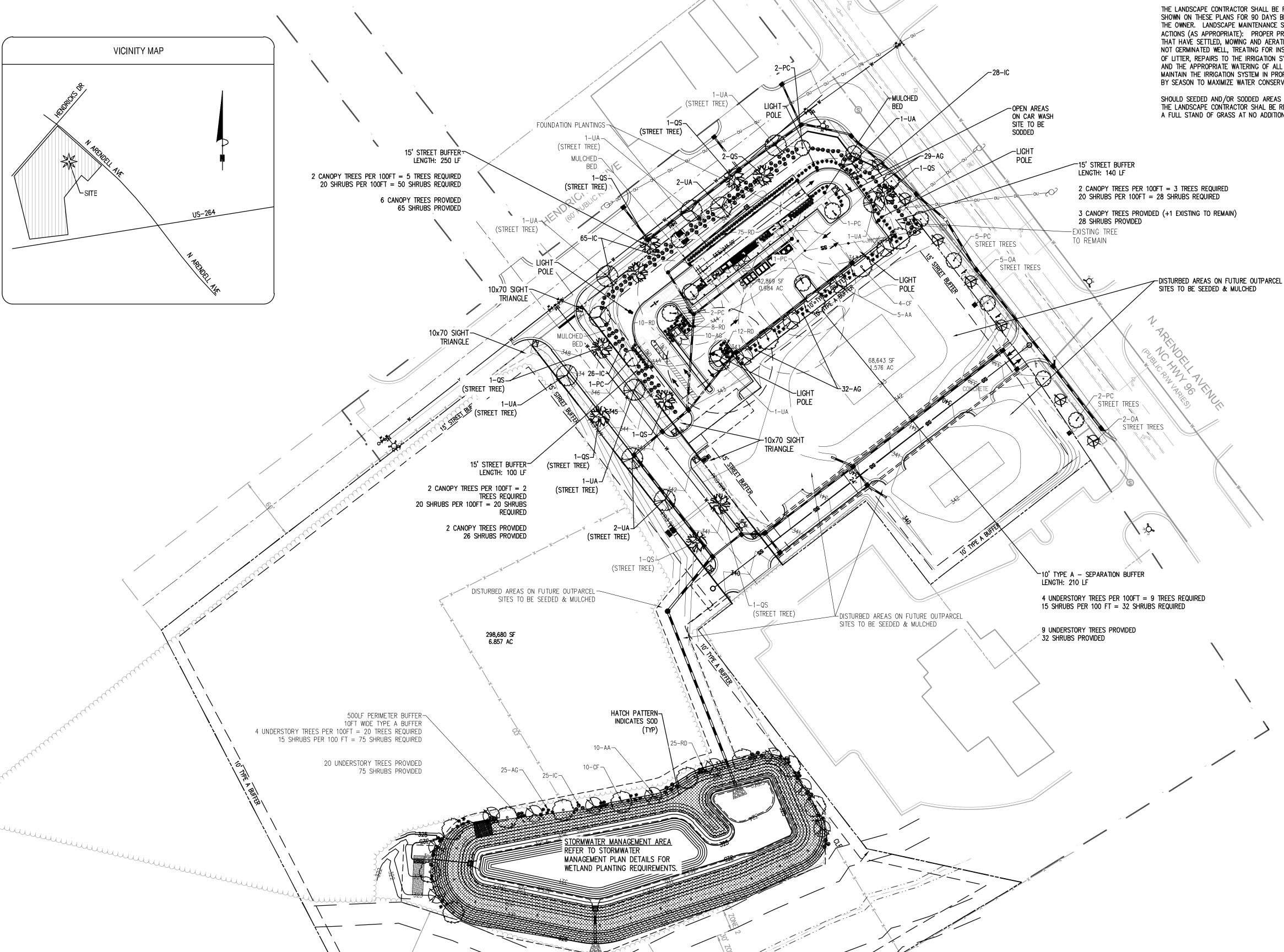
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11. ATTENTION LANDSCAPER: NOTIFY OWNER OF ANY SIGN, POWER LINE, OR OTHER CONFLICTS BEFORE PLANTING NEW TREES.

, K												
					MASTER PLAN	IT LIST						
	TYPE	SYM/KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SYMBOL	CALIPER	HEIGHT	SPREAD	ROOT	SPACING	OTHER
		QS	10	Quercus shumardii	Shumard Oak		2.5"	8' MIN		B&BB	AS SHOWN	
	LARGE TREES	UA	12	ulmus americana	American Elm		2.5"	8' MIN		В&В	AS SHOWN	
		PC	14	Pistacia chinensis	Chinese Pistachio		2.5 "	8' MIN		B&B	AS SHOWN	
		OA	7	Oxydendrum arboreum	Sourwood		1.5"	4' MIN		B&B	AS SHOWN	
	UNDERSTORY TREES	CF	14	Camus florida	Flowering Dogwood		1.5"	4' MIN		B&B	AS SHOWN	
		AA	15	Amelanchier arborea	Downy Serviceberry	\otimes	1.5"	4' MIN		B&B	AS SHOWN	
		RD	130	Rhaphiolepis x delacourii	Indian Hawthorn, Yeddo Hawthorn	•	ı	18" MIN		3 GAL	AS SHOWN	
	SHRUBS	AG	106	Abelia x grandiflora 'Kaleidoscope'	Kaleidoscope Abelia	*	ı	18" MIN		3 GAL	AS SHOWN	
١												

Dwarf Burford Holly

llex cornuta 'Dwarf Burford'



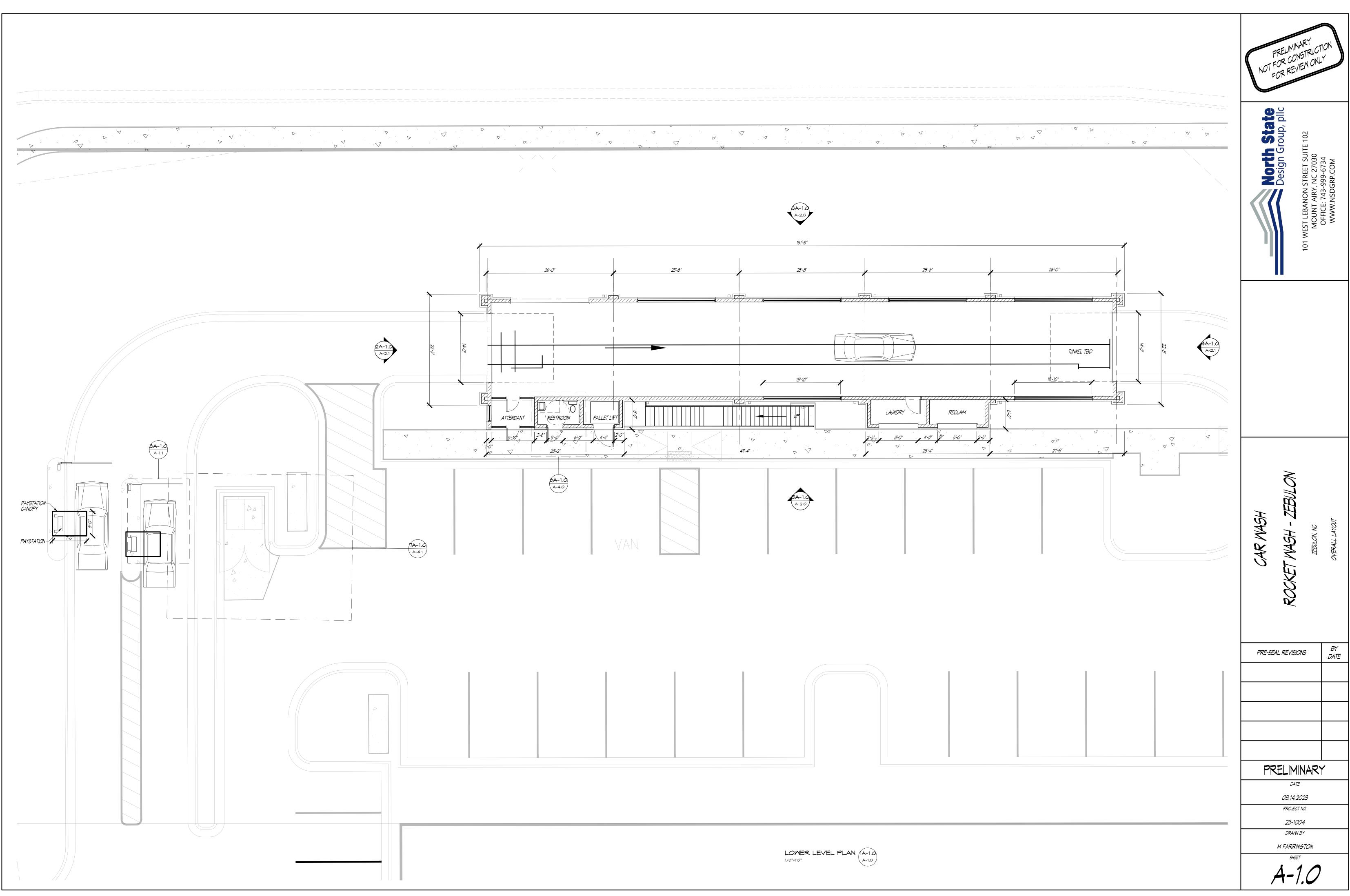
RIPARIAN BUFFER NOTE: THE 50 FOOT NEUSE RIPARIAN BUFFER ZONE IS MEASURED FROM THE TOP OF BANK
OF THE DITCH OR CREEK. NO ACTIVITY IS PERMITTED IN ZONE 1 (FIRST 30FT). OWNER/DEVELOPER TO CONSULT G.S. 15A NCAC 2B.0259 BEFORE ANY DISTURBANCE WITHIN THE BUFFER ZONE OR CALL NCDEQ, DIVISION OF WATER QUALITY, SURFACE WATER PROTECTION SECTION

Cad file name: V:\220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering | lans\construction documents\220097-01-002-LSP.dwg

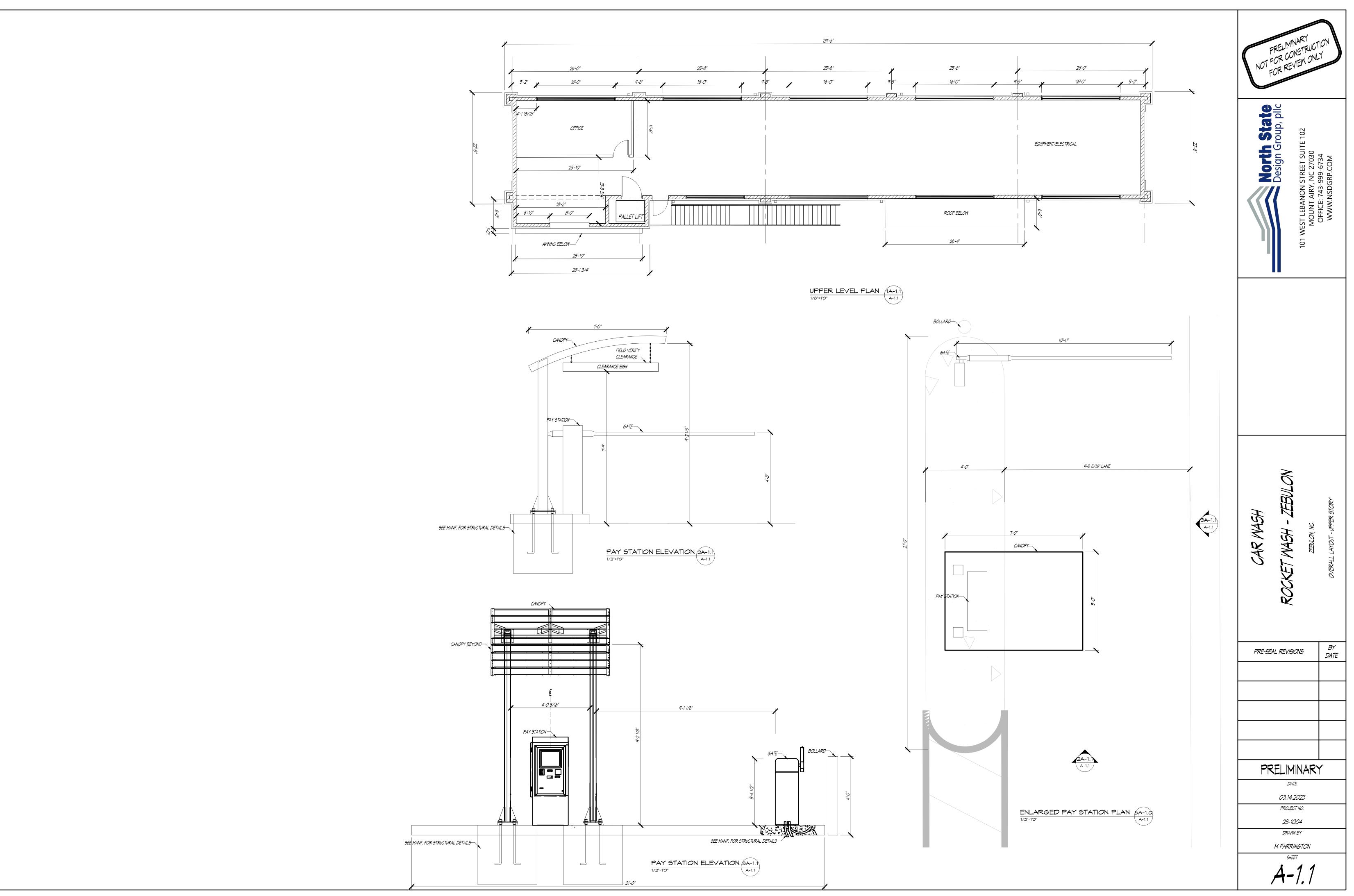
FOR OFFICIAL DETERMINATION

GRAPHIC SCALE

(IN FEET)











ELEVATION — TERTIARY (A-1.0) 3/16"=1'0"

~FALSE OR OPAQUE WINDOWS/DOORS W/ REGULAR SPACING ~ARTICULATED WALL FORMS DESIGNED TO MIMIC WINDOW OPENINGS THAT ALSO INCLUDE AN OVERHANG OR AWNING

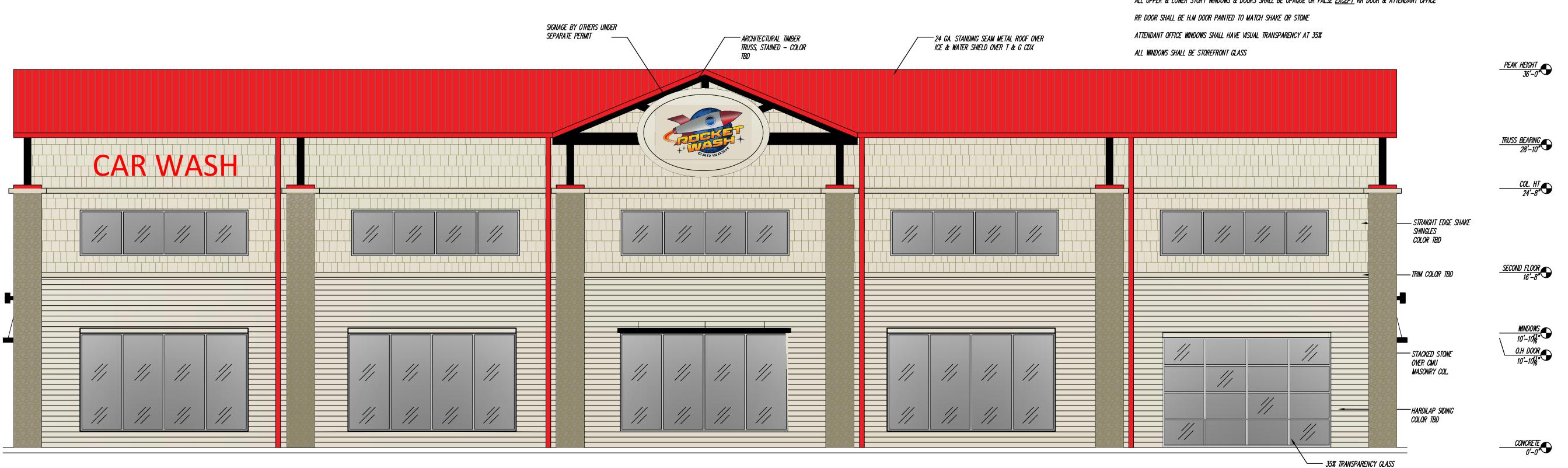
PROVIDED PERCENTAGES

~ UPPER STORY - APPROX. 20.4%

~ LOWER STORY - APPROX. 32.2%

ALL UPPER & LOWER STORY WINDOWS & DOORS SHALL BE OPAQUE OR FALSE <u>EXCEPT</u> RR DOOR & ATTENDANT OFFICE

SECTIONAL O.H DOOR







ZEBULON CAR WASH WASH ROCKET

PRELIMINARY DATE

PRE-SEAL REVISIONS

BY DATE

03.14.2023 PROJECT NO. *23*–1004 DRAWN BY M FARRINGTON

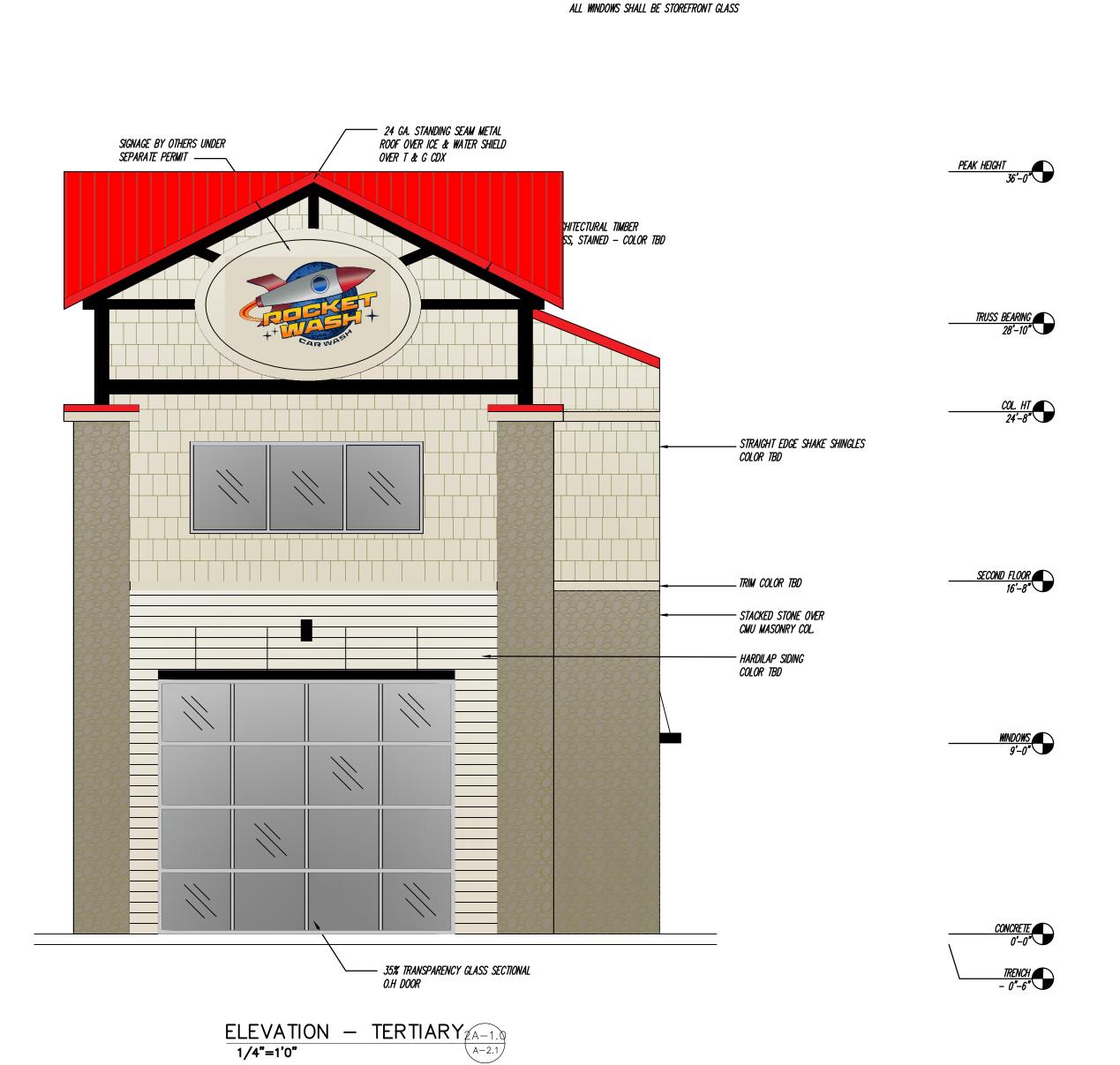
SHEET A-

ELEVATION - SECONDARY A-1.0
3/16"=1'0"

A-2.0



ELEVATION - PRIMARY (A-1.0)
1/4"=1'0"



NOTE:
PRIMARY WALLS SHALL BE CONFIGURED SO THAT:

~ ≥ 40% OF FIRST FLOOR PORTION OF THE PRIMARY WALL IS OCCUPIED BY VISUALLY TRANSPARENT WINDOWS OR DOORS

~ ≥ 30% OF A SECOND FLOOR PORTION OF THE PRIMARY WALL (IF PROVIDED) IS OCCUPIED BY VISUALLY TRANSPARENT WINDOWS OR DOORS

~ A WINDOW OR FUNCTIONAL GENERAL ACCESS DOORWAY IS LOCATED ≥ 20 FEET ALONG THE FACADE

~ NO MORE THAN 50% OF ANY SINGLE WINDOW OR DOOR IS OBSTRUCTED BY A WINDOW SIGN OR OTHER OPAQUE DISPLAY

~ UPPER STORY — APPROX. 40.2% ~ LOWER STORY — APPROX. 31.9%

ALL WINDOWS & DOORS SHALL HAVE VISUAL TRANSPARENCY AT 35%

PRELMINARY
NOT FOR CONSTRUCTION
FOR REVEN ONLY

STREET SUITE 102 , NC 27030 -999-6734 GRP.COM

101 WEST LEBANON STREET SUIT MOUNT AIRY, NC 27030 OFFICE: 743-999-6734

CAR WASH
ROCKET WASH - ZEBULON

PRE-SEAL REVISIONS

BY
DATE

PRELIMINARY

03.14.2023 PROJECT NO. 23–1004

DRAWN BY M FARRINGTON

A-2, 1

	LIGHT	ING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	EQUIVALENT TO MANUFACTURER: CATALOG NO.	LIGHT SOURCE	VOLTAGE	NOTES
A1	4' LINEAR LED LIGHTING FIXTURE WITH GLARE CONTROL, MOUNTED TO VACUUM BOOM (8' ABOVE FINISHED GRADE)	G&G INDUSTRIAL LIGHTING: GPX4-S0-40K-GC-UV0-120V	LED (INCLUDED) 2,400 LUMENS 4000K CRI 80+	120V	- 18 WATTS
W1	WALL MOUNTED, EXTERIOR, FULL CUTOFF, TYPE IV MEDIUM, MOUNTED 17' ABOVE FINISHED GRADE	LITHONIA: DSXW1-LED-20C-1000-40K- T4M-MVOLT	LED (INCLUDED) 7,400 LUMENS 4000K CRI 70+	MVOLT	- 73 WATTS
W2	WALL MOUNTED, EXTERIOR, FULL CUTOFF, TYPE III SHORT DISTRIBUTION, MOUNTED 17' ABOVE FINISHED GRADE	LITHONIA: DSXW1-LED-20C-700-40K- T3S-MVOLT	LED (INCLUDED) 5,500 LUMENS 4000K CRI 70+	MVOLT	- 46 WATTS
W3	WALL MOUNTED, EXTERIOR, FULL CUTOFF, TYPE III SHORT DISTRIBUTION, MOUNTED 27' ABOVE FINISHED GRADE	LITHONIA: DSXW1-LED-20C-700-40K- T3S-MVOLT	LED (INCLUDED) 5,500 LUMENS 4000K CRI 70+	MVOLT	- 46 WATTS
P1	POLE MOUNTED, EXTERIOR, FULL CUTOFF, TYPE IV MEDIUM DISTRIBUTION, 30' OVERALL MOUNTING HEIGHT	LITHONIA: DSX1 LED-P4-40K-80CRI-T4M	LED (INCLUDED) 15,600 LUMENS 4000K CRI 70+	MVOLT	– 124 WATTS

Rocket Car Wash Zebulon

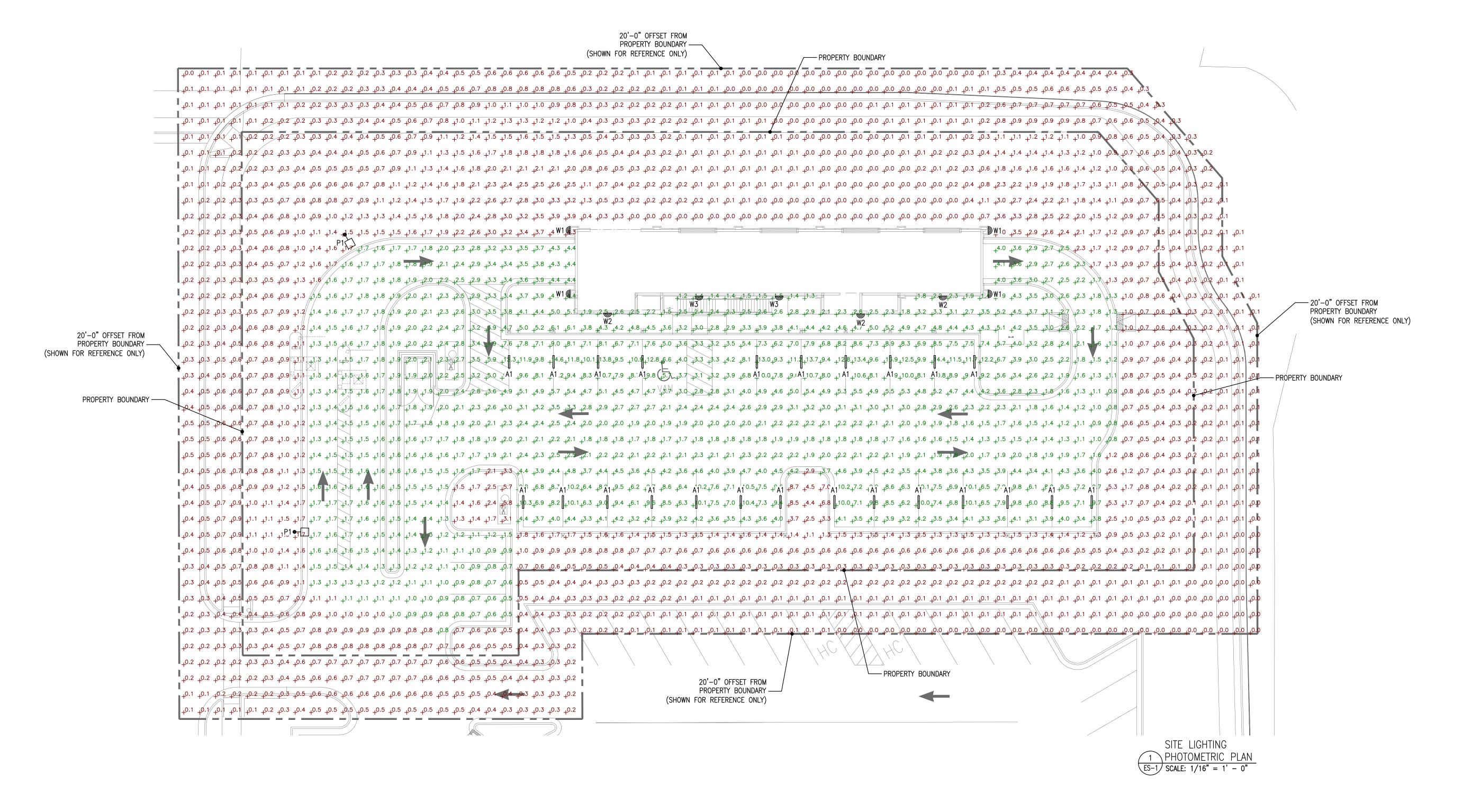
Site Lighting Photometric Plan

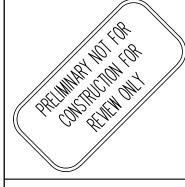
LIGHTING SYMBOLS LEGEND

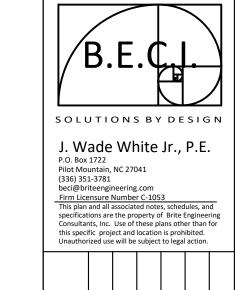
LINEAR FIXTURE MOUNTED TO BOTTOM OF VACUUM BOOM

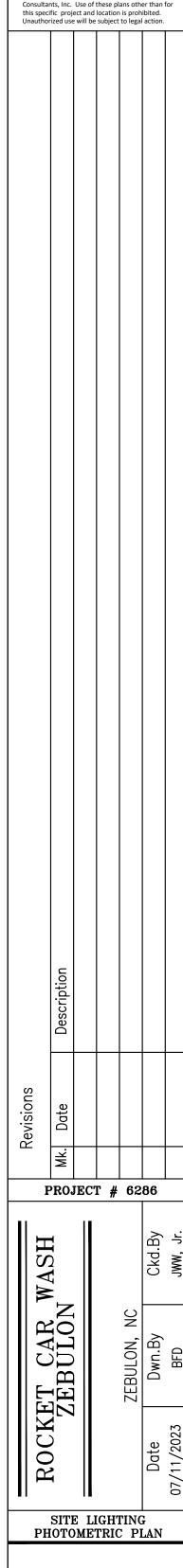
WALL MOUNTED LED LIGHT FIXTURE

POLE MOUNTED FULL-CUTOFF LED SITE-LIGHTING FIXTURE









ES-1

1 of 3











Performance Summary

Delivered Light Output: Up to 8,000 Lumens

Lifetime: Designed to last 100,000 Hours at 25°C

Warranty: 5 Years (See ggled.net for Terms)

Maximum Run Length: Refer to the Table on Page 2

CRI: Typical 85 CRI

CCT: 5000K & 4000K

Mounting: Ceiling or Wall

Protection Class: IP67

Voltage: 120 VAC or 277 VAC Input

Ambient Temperature: -40°C to 55°C

Low-Profile, Driverless Linkable IP67 LED Linear Luminaire

Product Features

DRIVERLESS LINEAR

Maintenance-Free Driverless Design Connects directly to AC line voltage without an LED driver or electrolytic capacitors, for extreme reliability and lifetime. Requires zero maintenance.

Easy to Install Quick-Connect Cabling Convenient push-and-click connectors and cabling make GPX Series fixtures easy to install and daisy chain.

Coextruded Copolyester/Aluminum Housing Our patented process combines copolyester and aluminum together, with no seals or gaskets. The result is a single piece enclosure with excellent heatsinking characteristics for long lifetime.

Superior Chemical & UV Resistance Seamless polymeric outer shell provides IP67 ingress protection and is specialized for superior chemical resistance. An additional protective coating is available which integrates a UV inhibitor and UV blocker for

Ordering Information

outdoor applications.

STRONG.

Product	Length	Lumen Output	Color Temp.	Lens Diffusion	UV Protection	Through Wired	Voltage
GPX		-	_	_	-	-	-
	2 2-Foot	SO Standard Output	50K (standard) 5000 Kelvin	Blank (standard) Chemical Resistant Clear Lens	Blank (standard) No Coating, Rated for Indoor Use	Blank (standard) Connectors on Input & Output for ability to Daisy Chain fixtures	120V 120 VAC Input
	4 4-Foot	600 Lumens/Ft HO*	40K* 4000 Kelvin	GC (glare control) Chemical Resistant Lens with	UVO Outdoor-Rated with UV-Blocking	SE (Single-Ended)	277V 277 VAC Input
	6 6-Foot	High Output 1000 Lumens/Ft	*N/A in 2' HO	Added Diffusion Sheet	Coating	Connector on Input Only, No Daisy Chain, for Standalone Install	
	8	*Available in 2′, 4′	& 8' only				

ver & Connection Accessories

Power 8	k Conne	ction A	ccessories				
Cable	Туре	Length	Wire	Mounting Hardware	Description		
*No Jump	oer Cable Require	d on End-to-Er	nd Connection	GPX-MNT-NM	Non-Metalic Quick Latch		
GPX-JMP-1	Jumper	1ft	18 AWG SJTW	GPX-MNT-SS	Stainless Steel Bolt Latch		
GPX-JMP-2	Jumper	2ft	18 AWG SJTW				
GPX-JMP-4	Jumper	4ft	18 AWG SJTW				
GPX-JMP-8	Jumper	8ft	18 AWG SJTW	*For serviceability and expansion/contraction considerations G&G luminaires connected end-to-end (without a jumper cable) to a max			
GPX-LDR-10	Leader Cable	10ft	18 AWG SJTW	idminaries connected end-to	r-end (without a jumper cable) to a ma		
GPX-LDR-25	Leader Cable	25ft	18 AWG SJTW				

SIMPLE.

he number of of 4. Rev Date 21 1213

COMPACT.

INDUSTRIAL LIGHTING T 800.285.6780 E sales@ggled.net www.ggled.net



Fixture photometry has been conducted by a NVLAP accredited testing

entire luminaire as the source resulting in a fixture efficiency of 100%.

laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the

Low-Profile, Driverless Linkable IP67 LED Linear Luminaire

Photometry

Based on DTC Report Test #: 14404-T

Polar Candela Distribution

Zonal Lumen Summary

0-30 26.2% 0-40 43.2% 0-60 77.4% 0-90 98.5% 0-180 100%

Luminaire

Dimensions

GPX Series

Product Specifications

Construction & Materials

Convenient push-and-click connectors let you easily and rapidly install Leader Cables and Jumper Cables. Multiple cable lengths support a variety of layouts.

Integrated aluminum heat spreader. Seamless polymeric outer shell provides IP67 ingress protection and is specialized for superior chemical resistance. An additional protective coating is available which integrates a UV inhibitor and UV blocker for outdoor applications.

All G&G luminaires and components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA.

Electrical System Power Factor: 0.9 nominal.

Input Power: Stays consistent over life.

Temperature Rating: Designed to operate in temperatures -40°C to 55°C. Total Harmonic Distortion: < 20%

Regulatory Qualifications

cULus Listed UL Listed for Wet Locations DLC Listed NEMA 4X Rated

Lumen & Power Data

Length & Output	Lumens	Wattage	Amps @120V	Amps @277V
GPX2-SO	1200	9	0.075	0.032
GPX4-SO	2400	18	0.150	0.065
GPX6-SO	3600	27	0.225	0.097
GPX8-SO	4800	36	0.300	0.130
GPX2-HO	2000	16	0.130	0.060
GPX4-HO	4000	31 (36 @ 277V)	0.258	0.112
GPX8-HO	8000	62 (72 @ 277V)	0.517	0.224

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STRONG.

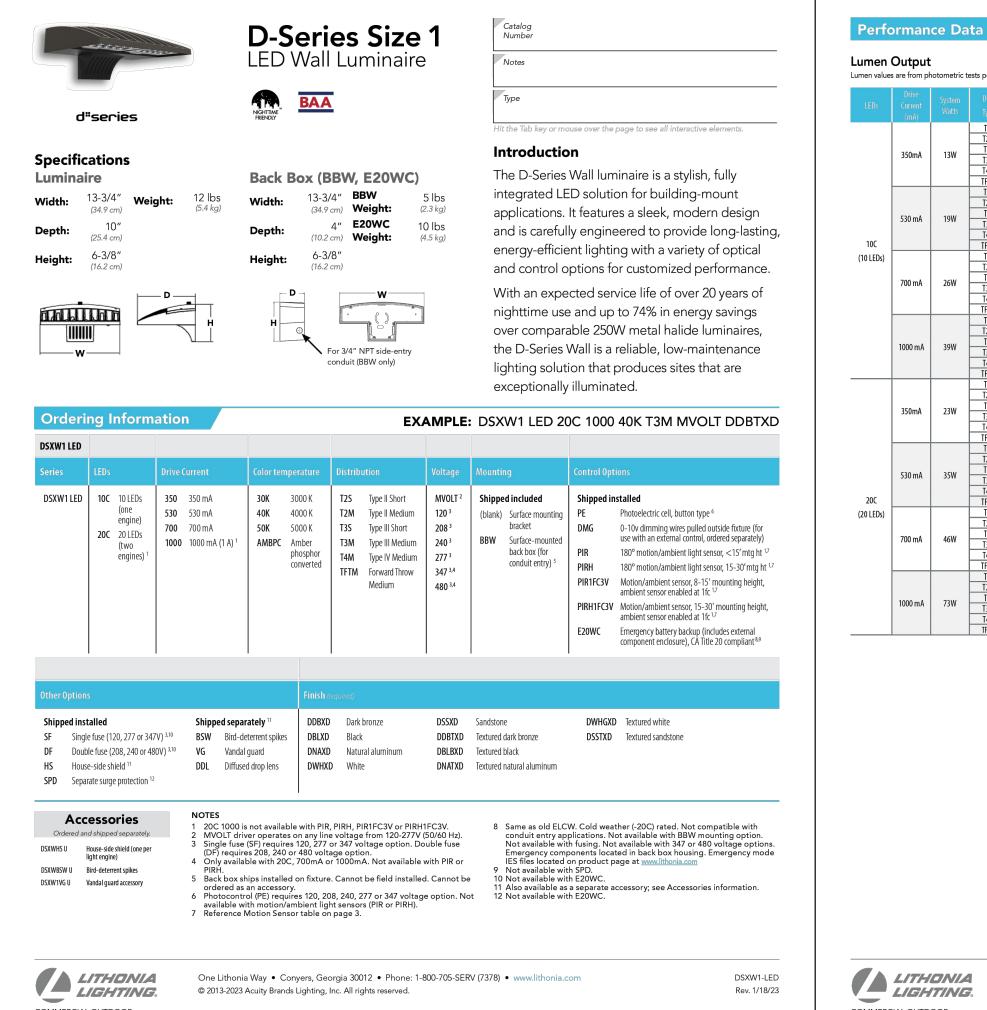
SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

COMMERCIAL OUTDOOR

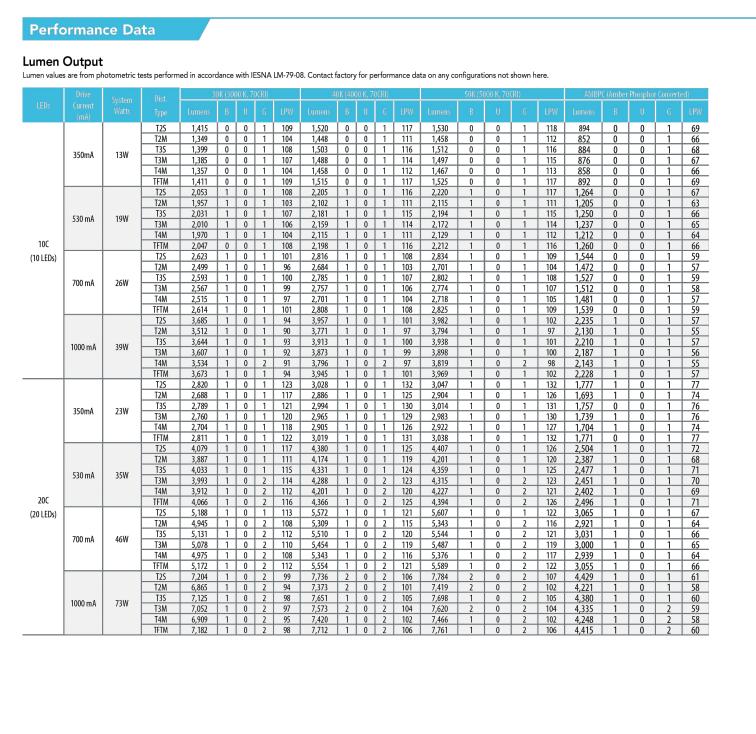
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		Maximum Fixture I	Run (Per 1 Leader Cal	ole): 120VAC		
	GPX2-SO (9W)	GPX4-SO (18W)	GPX4-HO (31W)	GPX6-SO (27W)	GPX8-SO (36W)	GPX8-HO (62W)
JMP1 (1FT)	66 (198')	37 (185')	23 (115')	26 (182')	20 (180')	12 (108')
JMP2 (2FT)	59 (236')	34 (204')	21 (126')	24 (192')	19 (190')	12 (120')
JMP4 (4FT)	50 (300')	31 (248')	19 (152')	22 (220')	17 (204')	10 (120')
JMP8 (8FT)	40 (400')	26 (312')	16 192')	19 (266')	15 (240')	9 (144′)
		Maximum Fixture I	Run (Per 1 Leader Cal	ole): 277VAC		
	GPX2-SO (9W)	GPX4-SO (18W)	GPX4-HO (36W)	GPX6-SO (27W)	GPX8-SO (36W)	GPX8-HO (72W)
JMP1 (1FT)	157 (471')	89 (445')	58 (290')	63 (441')	48 (432')	30 (270')
JMP2 (2FT)	141 (564')	83 (498')	55 (330')	59 (472')	46 (460')	30 (300')
JMP4 (4FT)	119 (714')	73 (584')	48 (384')	54 (540')	42 (504')	27 (324')
JMP8 (8FT)	95 (950')	61 (732')	40 (480')	46 (644')	37 (592')	24 (384')

SIMPLE. COMPACT.



COMMERCIAL OUTDOOR

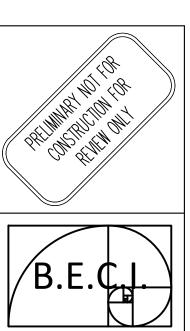


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COMMERCIAL OUTDOOR





SOLUTIONS BY DESIGN J. Wade White Jr., P.E. P.O. Box 1722 Pilot Mountain, NC 27041 (336) 351-3781 beci@briteengineering.com

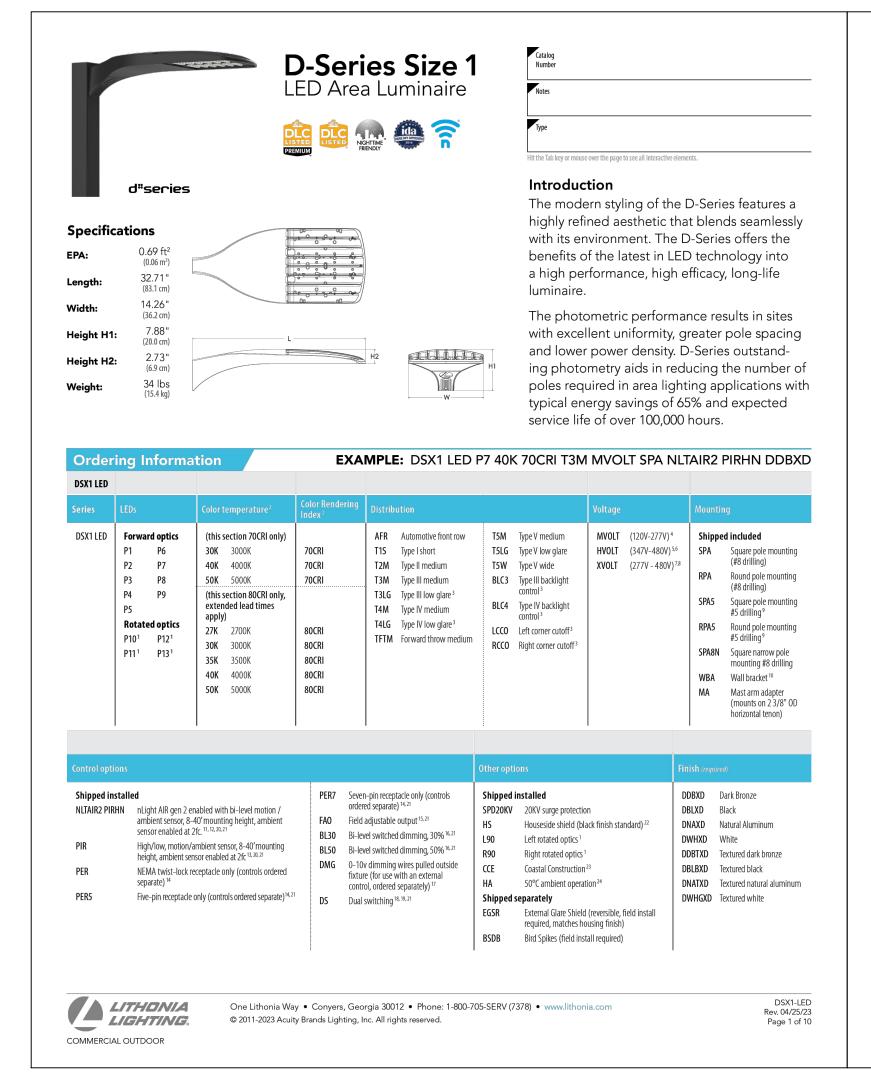
Firm Licensure Number C-1053
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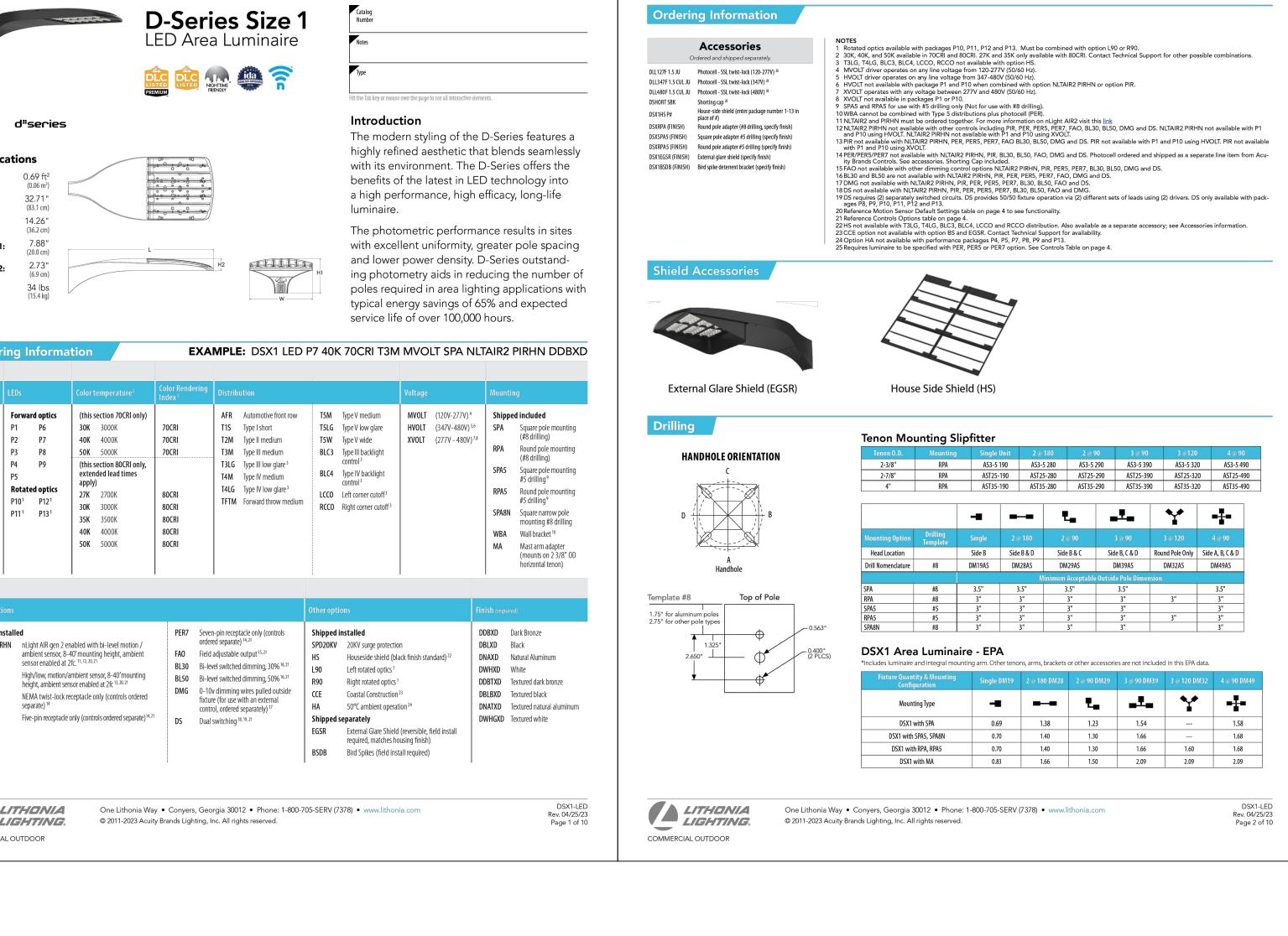
PROJECT # 6286 ROCKET CAR ZEBULON SITE LIGHTING FIXTURES

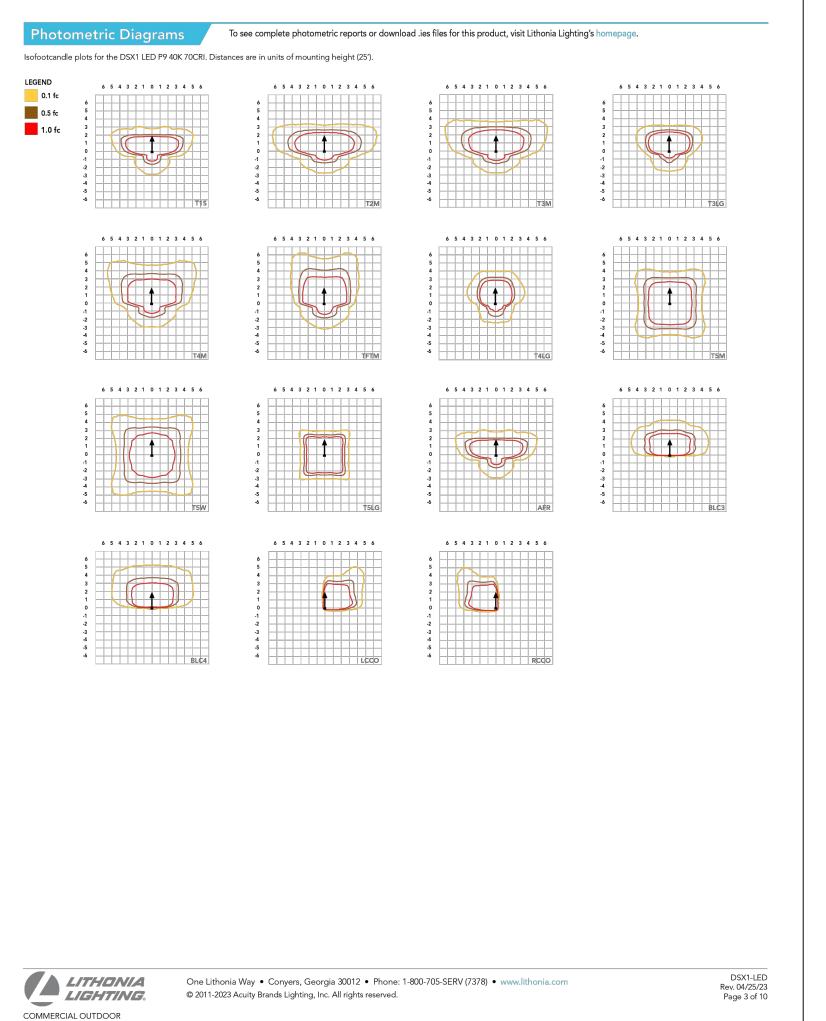
Rev Date 21 1213

DSXW1-LED

2 of 3

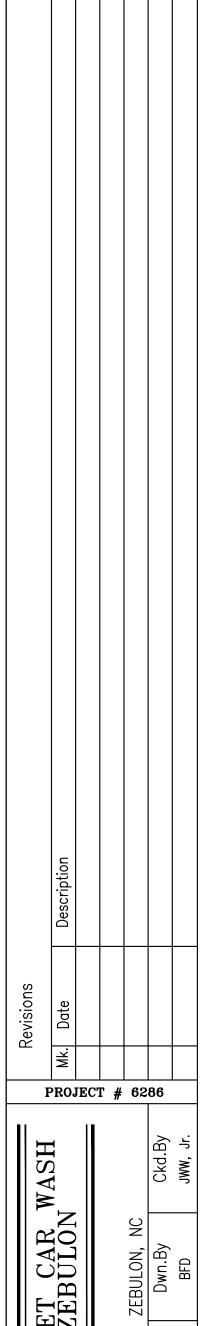












SITE LIGHTING FIXTURES

3 of 3