PROJECT DESCRIPTION

THIS PROJECT IS LOCATED ON A 1.92 ACRE SITE, IN ROLESVILLE, NC. THE PROPERTY AS IT EXISTS IS AN UNDEVELOPED LOT. THE PROPOSED DEVELOPEMENT WILL BE AN AUTOMATED CAR WASH WITH ASSOCIATED PARKING AND INFRASTRUCTURE.

THIS PROPERTY IS LOCATED OUTSIDE OF ANY REGULATED FLOOD ZONES, ZONEX (OTHER AREAS), NAVD88,

SCALED FROM THE FIRM THE TOWN OF ROLESVILLE, NORTH CAROLINA PANEL NO. 3720175800K.

PARCEL ID: 1758479244

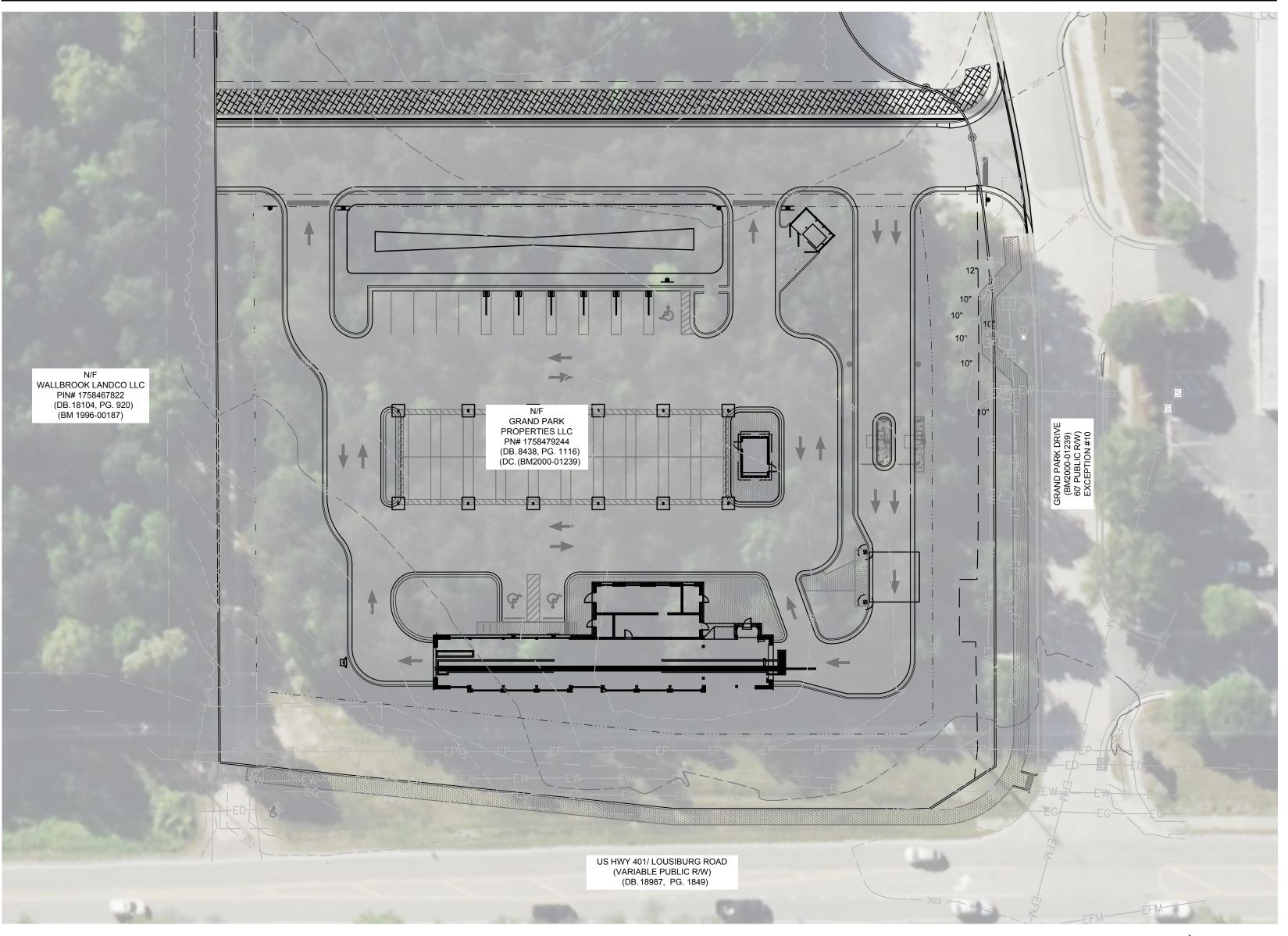
ZONING DISTRICT: GI (GENERAL INDUSTRIAL)

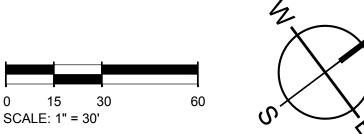
GENERAL NOTES

PROJECT SURVEY INFORMATION AND CONTRACTOR VERIFICATION REQUIREMENTS

- BOUNDARY, TOPOGRAPHIC, TREE, WETLAND DELINEATION, AND OTHER EXISTING CONDITIONS SHOWN ARE FROM SURVEY PREPARED BY MSP & ASSOCIATES LAND SURVEYING, INC. ALL ELEVATIONS ARE BASED ON NAVD88 DATUM.
- THE CONTRACTOR SHALL VERIFY THE EXISTING TOPOGRAPHIC WORK, EXISTING UTILITY LINE LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING WORK. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED
- THE CONTRACTOR SHALL MAINTAIN AND BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. AN AUTOCAD BASE PLAN OF THIS DRAWINGS CAN BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
- ENGINEER SHALL NOT BE RESPONSIBLE FOR ERRORS IN ELECTRONIC DATA. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL PLANS AND COORDINATION WITH THE TOWN OF
- ROLESVILLE FOR LANE/ROAD CLOSURE AS NEEDED THROUGHOUT CONSTRUCTION.
- ALL SITE WORK TO BE PERFORMED IN CONFORMANCE WITH THE TOWN OF ROLESVILLE CODE OF ORDINANCE. MATERIAL SPECIFICATIONS ARE PROVIDED IN THE SPECIFICATIONS AND SPECIAL PROVISIONS SECTION.
- ALL UTILITY INSTALLATIONS, PUBLIC AND PRIVATE, SHALL BE PERFORMED IN CONFORMANCE WITH THE TOWN OF ROLESVILLE WATER AND SEWER POLICIES, PROCEDURES, STANDARDS AND SPECIFICATIONS.

SITE OVERVIEW





PROJECT CONTACTS

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT **APPROVED** EROSION CONTROL ☐ SEC-

STORMWATER MGMT.□SWF-FLOOD STUDY
SWF-

DEVELOPER: SHJ DEVELOPMENT, LLC 124 EAST THOMPSON STREET POST OFFICE DRAWER 311 THOMASTON, GA 30286 **CONTACT: ALEX PERRY** PHONE: 478-972-2418

GRAND PARK PROPERTIES, LLC 2636 WAIT AVENUE WAKE FOREST, NC 27587

SEAMON WHITESIDE & ASSOCIATES, LLC 230 E PETERSON DR CHARLOTTE, NC 28217 CONTACT: TOMMIE LITTLE PHONE: 980-312-5450

UTILITY CONTACTS: CITY OF RALEIGH PUBLIC UTILITIES ONE EXCHANGE PLAZA, RALEIGH, NC 27601 CONTACT: GEORGE M. UPCHURCH, JR. PHONE: 919-996-3245

CIVIL ENGINEER & LANDSCAPE ARCHITECT:

SURVEYOR

MSP & ASSOCIATES

LAND SURVEYING INC.

301 E. HILLCREST DR.

GREENVILEE, SC, 29609

PHONE: (864) 370-2232

C1.0	TITLESHEET
C1.1	LEGEND & REVISION NOTES
C2.1	SURVEY
C2.2	TREE SURVEY
C3.1	EXISTING CONDITIONS AND DEMO PLAN
C4.1	EROSION CONTROL PH I
C4.2	EROSION CONTROL PH II
C4.3	EROSION CONTROL PH III
C4.6	EROSION CONTORL NOTES
C4.4	EROSION CONTROL DETAILS
C4.5	EROSION CONTROL DETAILS
C5.1	SITE PLAN
C5.2	VEHICLE STACKING & TURNING MOVEMENT
C5.3	FIRE PROTECTION PLAN
C6.1	OVERALL GRADING AND DRAINAGE PLA
C6.2	DRAINAGE PROFILES
C7.1	UTILITY PLAN AND PROFILES
C7.2	UTILITY PROFILES
C8.1	CONSTRUCTION DETAILS
C8.2	CONSTRUCTION DETAILS
C8.3	CONSTRUCTION DETAILS
C8.4	CONSTRUCTION DETAILS
C8.5	CONSTRUCTION DETAILS
D1.0	ADS STORMTECH
D1.1	ADS STORMTECH
D1.2	ADS STORMTECH
D1.3	ADS STORMTECH
D1.4	ADS STORMTECH
L1.0	LANDSCAPE PLAN

Sheet List Table

SITE DATA TABLE:

ADDRESS: 0 S MAIN STREET, ROLESVILLE, NC PROPERTY AREA: 1.92 ACRES PARCEL: 1758479244 EXISTING USE: UNDEVELOPED PROPOSED USE: CAR WASH WATERSHED: TOMS CREEK (MILL CREEK) RIVER BASIN: NEUSE

PROPERTY ZONING: GI (GENERAL INDUSTRIAL) **BUILDING SETBACKS:**

FRONT (SE): CORNER (NE): REAR (NW): SIDE (SW): PERIMETER LANDSCAPE YARDS:

REQUIRED OPEN SPACE (5%) = 0.01 AC (4182 SF)

BUILDING:

BUILDING AREA: 3325 SF BUILDING HEIGHT: 21'-7"

NORTHEAST:

PRE VS. POST DEVELOPMENT AREA:

PRE-IMPERVIOUS AREA: 0.04 AC (2.08%) POST-IMPERVIOUS AREA: 1.30 AC (67.7%)

PARKING NOTE:

PARKING REQUIRED: 1 SPACE PER 400 SF GFA OR 5 SPACES MINIMUM = 5 SPACES

PARKING PROVIDED: EMPLOYEE SPACES: (4 MAX ON SHIFT) **VACUUM STALLS:**

5 SPACES (1 ADA) 34 STALLS





GREENVILLE, SC SUMMERVILLE, SC SPARTANBURG, SO 864.272.1272 CHARLOTTE, NC WWW.SEAMONWHITESIDE.COM





SW+ PROJECT: DRAWN BY: CHECKED BY: **REVISION HISTORY**

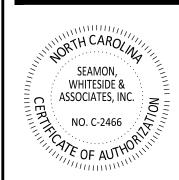
TITLESHEET

C1.0

			DRAV	VING	LEGE	END	NOTE: THIS LEGEND DOES N THE ORIGINAL FORMAT AS F	OT APPLY TO 'EXISTING CONDITIONS' SHEET(S). THOS RECEIVED BY THE SURVEYOR	SE ARE SHOWN IN
OBJECTS AND SYMBOLS	<u>EXISTING</u>	<u>NEW</u>	OBJECTS AND SYMBOLS	EXISTING	<u>NEW</u>	HATCH PATTERNS		SWPP PLAN LEGEN	I <u>D</u>
Right of Way			Benchmark Sanitary Sewer Manhole	S	N/A			Turf Reinforcement Mat	TR
Lot Line Adjoining Property Line		N/A	Sanitary Sewer Manhole ID # Sanitary Sewer Cleanout	N/A	(MH) # ⊗	Demo Existing Gravel		Sodding (See Turf and Grasses Specs)	S
Easement			TYPE 1 Storm Drainage Structure (CI-1) Catch Basin (CB)					Temporary Seeding (See Schedule in EC Notes)	TS
Setback		(Same as Existing)	Storm Drainage Junction Box (JB)	0	0	Demo Existing Trees		Permanent Seeding (See Turf and Grasses Species)	PS
Sanitary Sewer (Gravity)	ES	s	Yard Inlet (YI) Control Structure (CS)	YI	YI CS			Erosion Control Blanket (See Turf and Grasses Species)	EC
Sanitary Sewer (Force Main) Water Line	EFM		Storm Drainage Structure ID # Telephone Box	N/A T	(#) N/A	Proposed Sidewalk		Concrete Washout Basin	CW
Curb & Gutter (Straight)			Telephone Manhole Electrical Box	(T) E	N/A N/A			Block & Stone Inlet Protection	
Curb & Gutter (Roll) Previous Phase Storm Drain Pipe	(Width varies with size)		Electrical Manhole Power Pole	(E)	N/A	Heavy Duty Concrete Pavement		Filter Fabric Inlet Protection	
Storm Drain Pipe	ED	(Width varies with size)	Light Pole Fire Hydrant Assembly	¤ -0- H	* *		4 4 4 4	Construction Entrance	
Drainage Flow Arrow	N/A	~~	Water Line Valve Water Line Reducer		101	Standard Duty		Dandy Sack or Grate Gator Inlet Protection	
Silt Fence, Standard Match Line	ESF N/A	SF ————————————————————————————————————	Sign	0	•	Concrete Pavement			
Drainage Basin Limits	N/A		ADA Accessible Parking Space	E	č				
Conduit Natural Gas	EC	C	Spot Elevation Drainage Basin Area	₊ X.XX N/A	X.XXAc	Asphalt Greenway			
Overhead Electrical	EP	Р ———	Parking Count ID #	N/A	(2)				
Underground Electrical Underground Telephone	EUP	_	Revision ID #	N/A	<u></u>	Area to be Permanently Stabilized			
Fence	X	x	Rip Rap at Pipe Outlet	N/A			<u></u>		
Elevation Contour	22	22							
Revision Cloud (Encloses Revision)	N/A								



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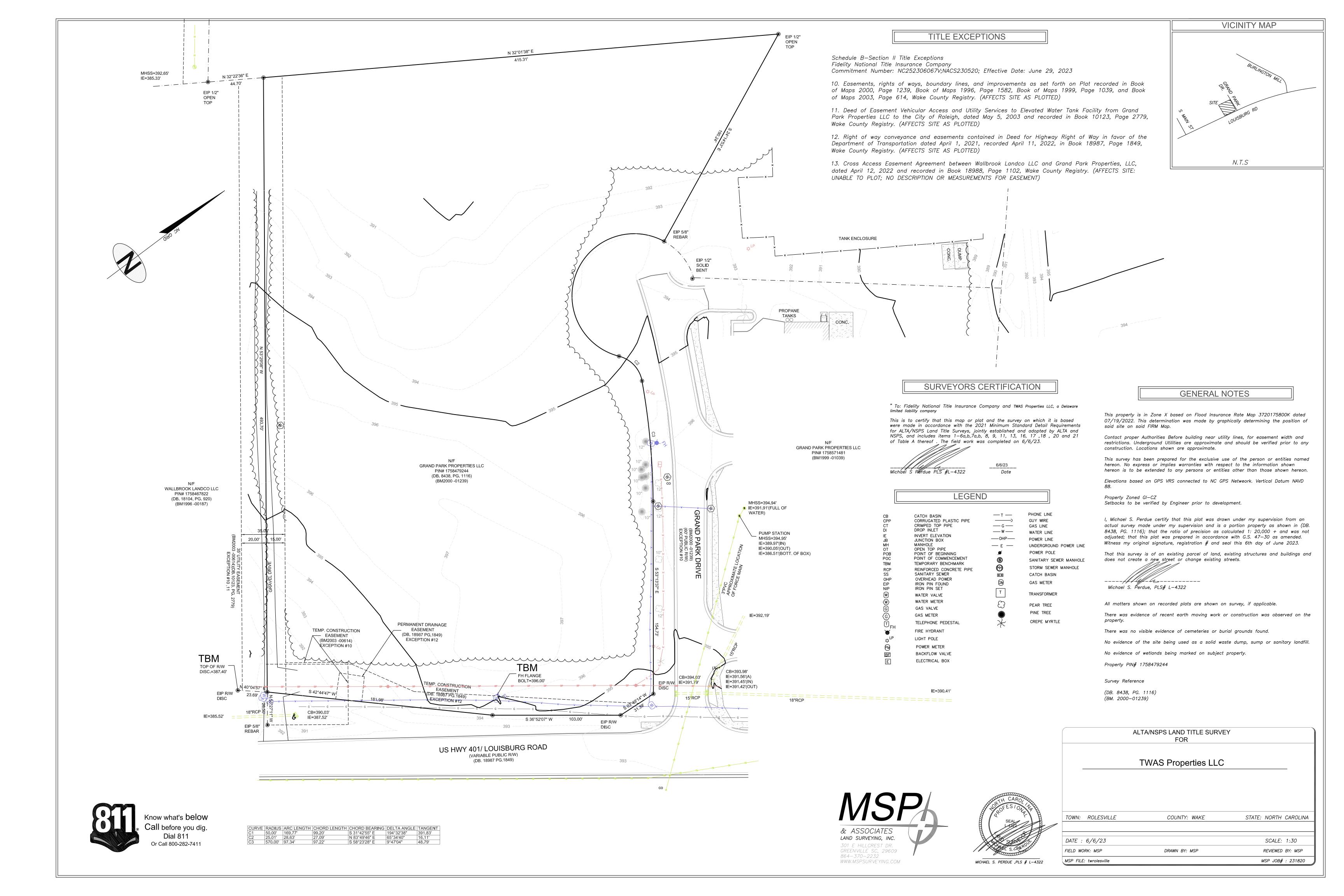


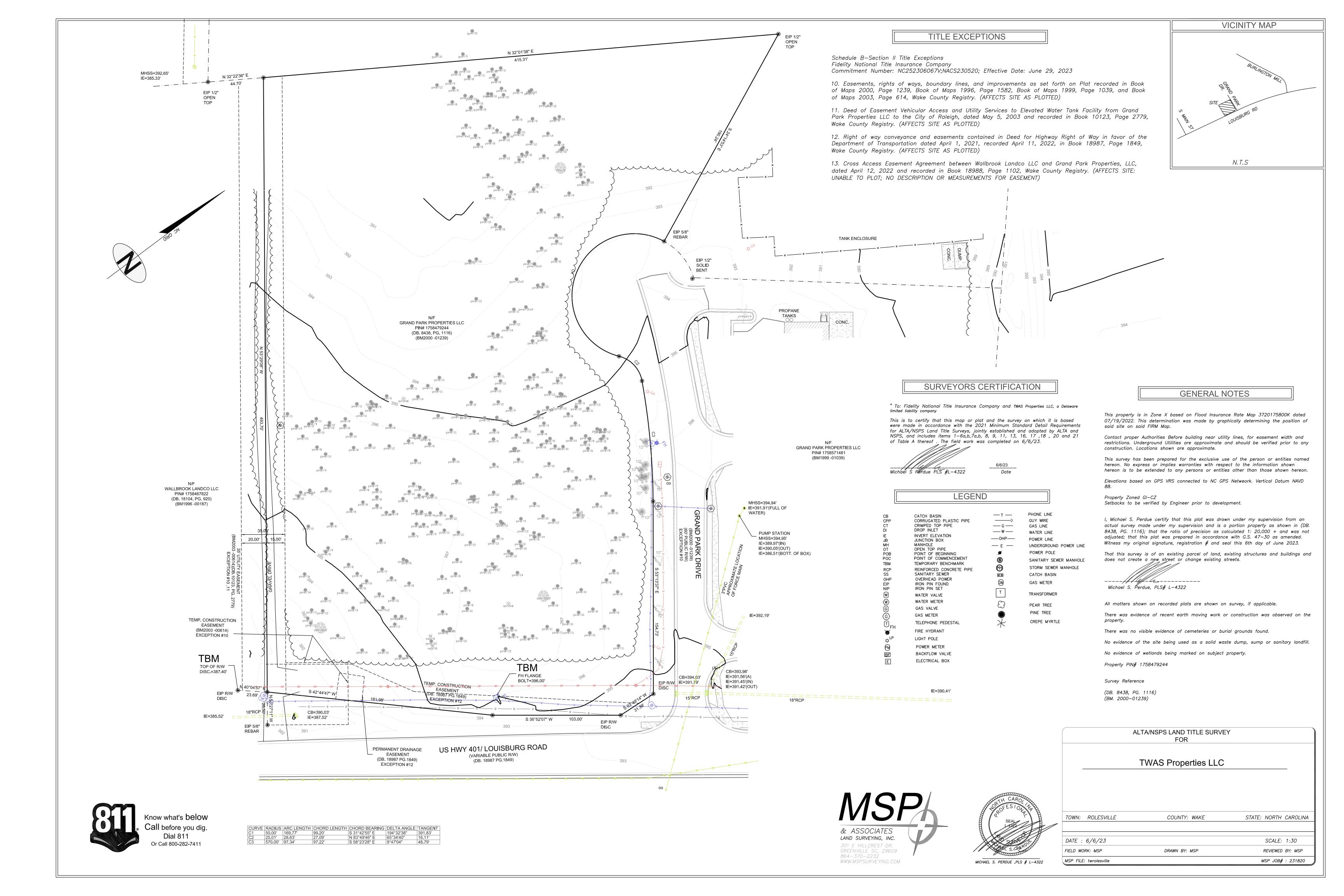
DAL WAVE AUTO SPA

SW+ PROJECT: 10772
DATE: 3/01/24
DRAWN BY: CPE
CHECKED BY: TLL

REVISION HISTORY

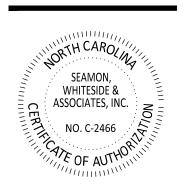
LEGEND &
REVISION
NOTES







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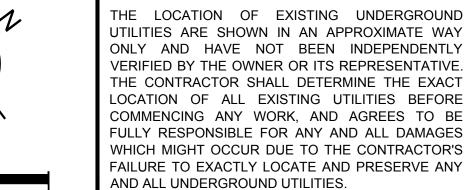


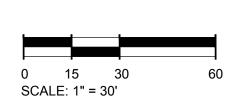


DEMOLITION NOTES:

- 1. ALL DEMOLITION DEBRIS IS TO BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE COUNTY, STATE, AND FEDERAL REGULATIONS.
- 2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES BEFORE ANY WORK IS STARTED. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THE FIELD MARKINGS AND SURVEY.
- 3. NO LAND DISTURBING ACTIVITY PRIOR TO APPROVAL OF EROSION AND SEDIMENT CONTROL PLAN AND THE ISSUANCE OF THE LAND-DISTURBING PERMIT AT THE PRECONSTRUCTION MEETING.
- 4. CONTRACTOR TO REMOVE ALL TREES WITHIN LIMITS OF DISTURBANCE.

EXISTING UTILITY NOTE:





Know what's below.

Call before you dig.

DEMOLITION LEGEND

LIMITS OF DISTURBANCE — — — — EXISTING UTILITY TO REMAIN

EXISTING CURB TO BE

REMOVED

EXISTING CONDITIONS AND DEMO PLAN

SW+ PROJECT:

DRAWN BY:

CHECKED BY:

REVISION HISTORY

3/01/24

Know what's below.

Call before you dig.

PHASE I SEQUENCING:

- 1. DRAFT EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED AND A LETTER OF APPROVAL (LOA) MUST BE ISSUED PRIOR TO OBTAINING THE CERTIFICATE OF COVERAGE FROM DEQ
- 2. RECEIVE NPDES COVERAGE FROM NCDEQ.
- 3. PRE-CONSTRUCTION CONFERENCE TO BE CONDUCTED WITH THE WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907) TO DISCUSS EROSION CONTROL MEASURE. FAILURE TO SCHEDULE SUCH CONFERENCE PRIOR TO ANY LAND DISTURBING ACTIVITY IS SUBJECT TO FINE. LDP WILL BE ISSUED AT THE PRECONSTRUCTION MEETING (ON-SITE). SITE SHOULD BE FLAGGED PRIOR TO PRE-CONSTRUCTION MEETING.
- 4. INSTALL SILT FENCE, INLET PROTECTION, BERMS AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 5. CALL FOR ON-SITE INSPECTION BY WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907). WHEN APPROVED, INSPECTOR GIVES CONTRACTOR THE ABILITY TO CLEAR AND GRUB SITE.
- 6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- 7. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL
- 8. CONTRACTOR SHALL NOT ALLOW MORE THAN 0.25 ACRES OF DISTURBED AREA TO DRAIN TOWARDS 100LF OF SILT FENCE OR PERFORM GRADING IN A MANNER THAT ALLOWS SEDIMENT LADEN WATER TO FLOW LONGITUDINALLY ALONG SILT FENCE LINE. IF A LOW SPOT DEVELOPS ALONG GRADING NEAR SILT FENCE, CONTRACTOR SHALL COORDINATE WITH EROSION CONTROL INSPECTOR TO PLACE A SILT FENCE OUTLET IN OUTLET LOCATIONS.
- 9. CONTACT WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907) UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
- 10. UPON APPROVAL FROM WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907), COMPLETE DEMOLITION OF ANY SITE FEATURES (PAVEMENT, CURB, ETC.), CLEARING AND GRUBBING, AND STRIP SITE OF TOP SOIL. ALL DEMOLISHED MATERIAL IS TO BE DISPOSED IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA REGULATIONS. CONTRACTOR TO ENSURE ALL APPLICABLE DEMOLITION PERMITS HAVE BEEN ISSUED AND HAVE ORIGINALS OF THE SAME PRIOR TO COMMENCING DEMOLITION ACTIVITIES.
- 11. CONTACT WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907) UPON COMPLETION OF STRIPPING, THE STOCKPILING OF TOPSOIL, THE CONSTRUCTION OF TEMPORARY SEDIMENT AND EROSION CONTROL FACILITIES, DISPOSAL OF ALL WASTE MATERIAL, AND PREPARATION OF THE GROUND.

INLET PROTECTION NOTE:

PROVIDE APPROPRIATE INLET PROTECTION FOR VARIOUS PHASES OF THE CONSTRUCTION . HARDWARE CLOTH AND GRAVEL PROTECTION SHALL BE PROVIDED FOR INLETS IN NON-PAVED AREA. WEEP FILTERS SHALL BE PROVIDED FOR INLETS IN PAVED AREAS.

E&SC PLAN LEGEND

LIMITS OF DISTURBANCE

SILT FENCE, STANDARD

SEDIMENT TRAP

PERMANENT SOD

SILT FENCE OUTLET/RIP RAP

CONSTRUCTION ENTRANCE

APRON/RIP RAP BASIN & ROCK

CONCRETE WASHOUT BASIN

HARDWARE CLOTH AND

TEMPORARY SEEDING

GRAVEL INLET PROTECTION

(SEE DETAIL)

SILT BAG INLET

PROTECTION

CW

TS



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REVISION HISTORY

EROSION

CONTROL PH I

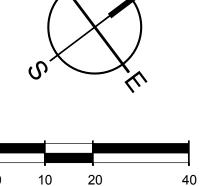
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY

AND ALL UNDERGROUND UTILITIES.



STABILIZATION NOTE: PROVIDE FINAL STABILIZATION

FOR ALL DISTURBED AREAS. REFER TO THE LANDSCAPE PLAN FOR SPECIFIC MATERIALS PLANTINGS. ANY DISTURBED AREA NOT ADDRESSED IN THE LANDSCAPE PLANS SHALL BE PERMANENT SEEDED.



Know what's below.
Call before you dig.

PHASE II SEQUENCING:

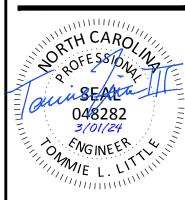
- 1. CONTACT THE WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907) FOR APPROVAL TO PROCEED.
- 2. TEMPORARILY STABILIZE GRADED AREAS (NON-STEEP SLOPES) AS REQUIRED.
- 3. COMPLETE ROUGH GRADING. COMPLETE THE INSTALLATION OF STORMWATER SYSTEM AND SITE UTILITIES.
- 4. CONTACT THE WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907) UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE, OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS.
- 5. INSTALL CURB ALONG THE PERIMETER OF THE SITE TO AID IN THE PROTECTION OF THE EXISTING ADJACENT PROPERTIES AND THE ADJACENT ROADWAYS.

INLET PROTECTION NOTE:

PROVIDE APPROPRIATE INLET PROTECTION FOR VARIOUS PHASES OF THE CONSTRUCTION. HARDWARE CLOTH AND GRAVEL INLET PROTECTION SHALL BE PROVIDED FOR INLETS IN NON-PAVED AREA. DANDY SACK INLET PROTECTION SHALL BE PROVIDED FOR INLETS IN PAVED AREAS.

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CONTROL PH

EXISTING UTILITY NOTE:

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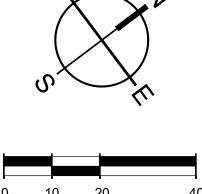


STABILIZATION NOTE: PROVIDE FINAL STABILIZATION

FOR ALL DISTURBED AREAS. REFER TO THE LANDSCAPE PLAN FOR SPECIFIC MATERIALS / PLANTINGS. ANY DISTURBED AREA NOT ADDRESSED IN THE LANDSCAPE PLANS SHALL BE PERMANENT SEEDED.

DISTURBED ACREAGE

2.22 ACRES



——— SF ———

E&SC PLAN LEGEND

LIMITS OF DISTURBANCE

SILT FENCE, STANDARD

CONCRETE WASHOUT BASIN

(SEE DETAIL)

SILT BAG INLET

CW



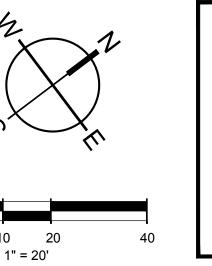
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REVISION HISTORY

EROSION

CONTROL PH



LIMITS OF DISTURBANCE

SILT FENCE OUTLET/RIP RAP

APRON/RIP RAP BASIN & ROCK

CONSTRUCTION ENTRANCE

SILT FENCE, STANDARD

SEDIMENT TRAP

PERMANENT SOD

GRAND PARK PROPERTIES LLC

PIN# 1758571481

ZONING: GC

USE: COMMERCIAL

☐ IE=391.91'(FULL OF

PUMP STATION MHSS=394.95' ─ IE=389.97'(IN) IE=390.05'(OUT)

IE=386.51'(BOTT. OF BOX)

FOR ALL DISTURBED AREAS. REFER TO THE LANDSCAPE PLAN FOR SPECIFIC MATERIALS 0 10 20 SCALE: 1" = 20'

/ PLANTINGS. ANY DISTURBED AREA NOT ADDRESSED IN THE LANDSCAPE PLANS SHALL BE PERMANENT SEEDED.

TOTAL SITE ACREAGE

1.92 ACRES

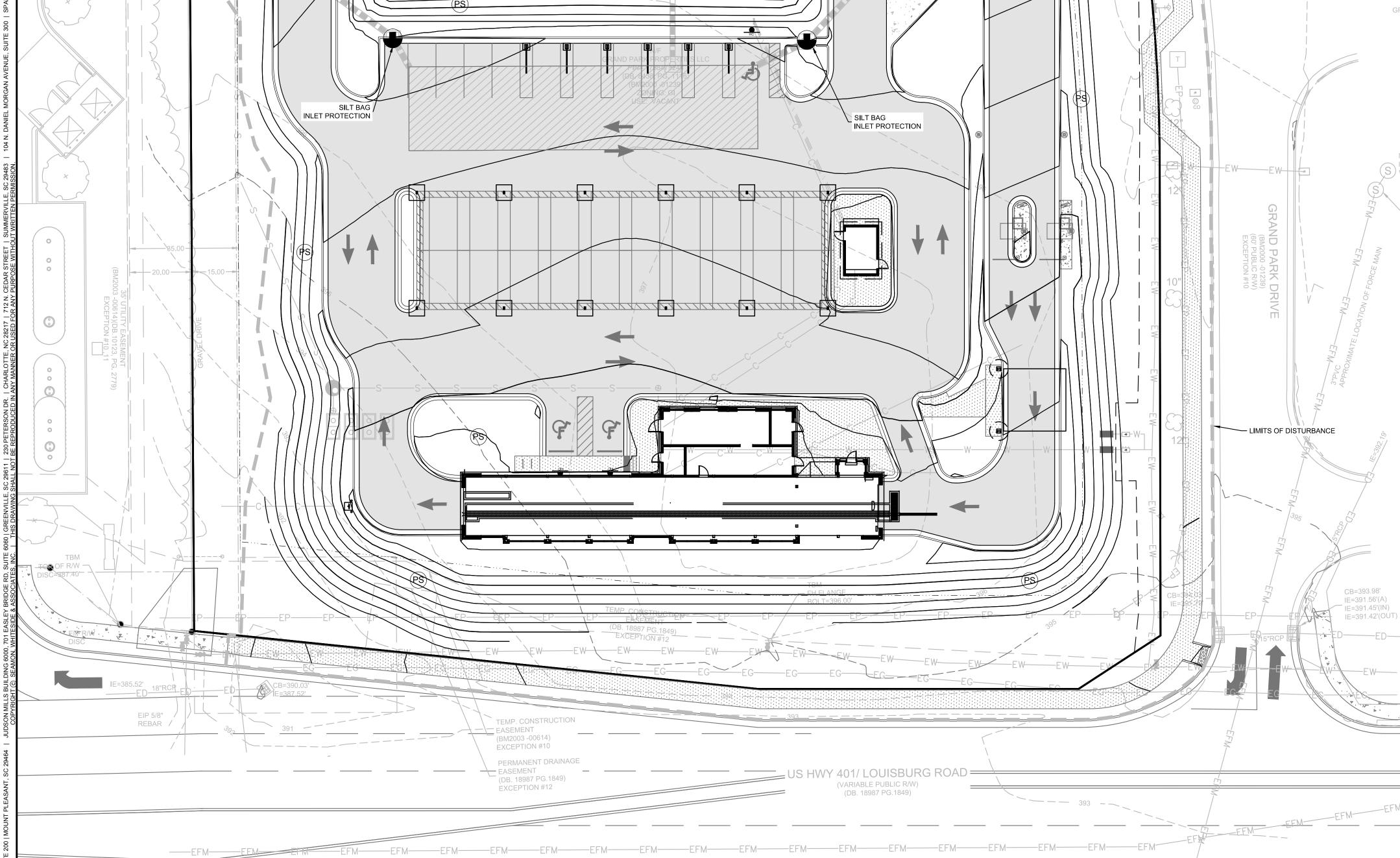
DISTURBED ACREAGE

2.22 ACRES

PROVIDE FINAL STABILIZATION

STABILIZATION NOTE:





SILT BAG INLET PROTECTION

INLET PROTECTION

LIMITS OF DISTURBANCE —

SILT BAG

EXISTING UTILITY NOTE:

Know what's below.
Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND

UTILITIES ARE SHOWN IN AN APPROXIMATE WAY

ONLY AND HAVE NOT BEEN INDEPENDENTLY

VERIFIED BY THE OWNER OR ITS REPRESENTATIVE.

THE CONTRACTOR SHALL DETERMINE THE EXACT

LOCATION OF ALL EXISTING UTILITIES BEFORE

COMMENCING ANY WORK, AND AGREES TO BE

FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES

WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S

FAILURE TO EXACTLY LOCATE AND PRESERVE ANY

AND ALL UNDERGROUND UTILITIES.

2. BEGIN FINE GRADING AND INITIATE FINAL PAVING

NOTES. INSTALL FINAL SITE LANDSCAPING

PHASE III SEQUENCING:

OTHER WORK OF THE BUILDING PERMITS.

E&SC PLAN LEGEND

——— SF ———

CONCRETE WASHOUT BASIN

HARDWARE CLOTH AND

TEMPORARY SEEDING

GRAVEL INLET PROTECTION

(SEE DETAIL)

SILT BAG INLET

PROTECTION

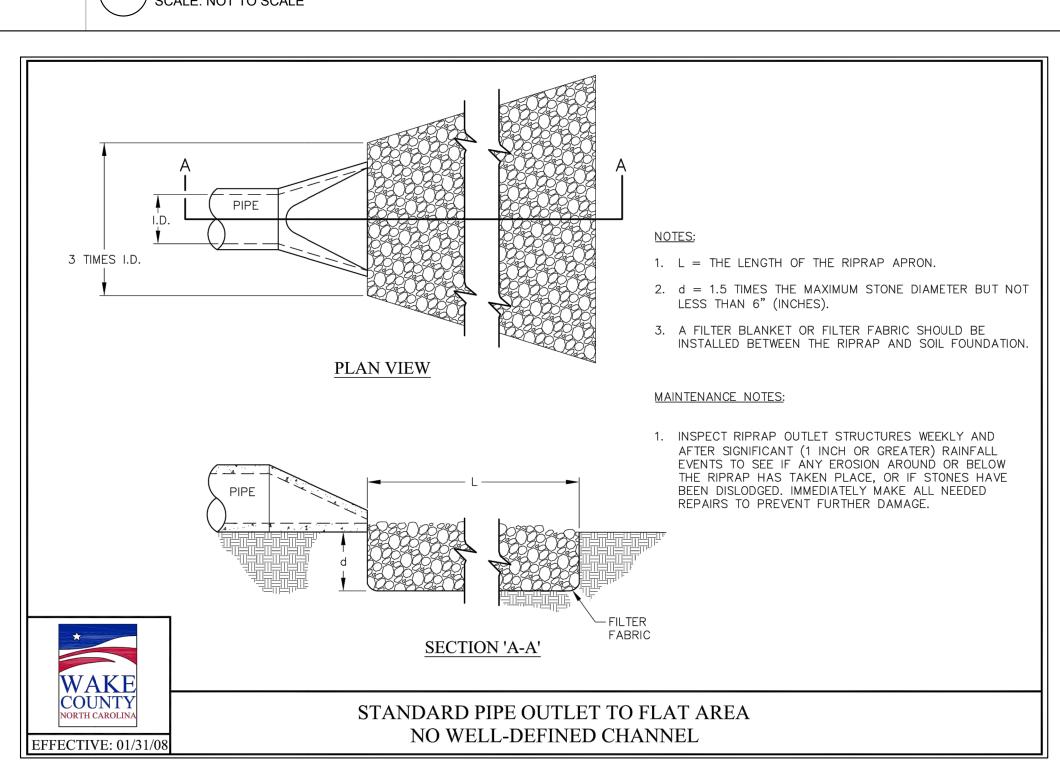
CW

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1. CONTACT WAKE COUNTY FIELD CONSULTANT (JEEVAN NEUPANE 919-819-8907) FOR APPROVAL TO PROCEED

NEUPANE 919-819-8907) FOR APPROVAL TO REMOVE APPLICABLE EROSION CONTROL MEASURES.





Pipe Outlet Riprap Protection with Calculations

 OUTFALL
 5.00
 15
 0.50
 3.75
 10.00
 11.25
 13.50

DISCHARGE, FT³ / SEC

DEPTH (IN)

MOUNT PLEASANT, SC

843.884.1667

GREENVILLE, SC

864.298.0534

SUMMERVILLE, SC

843.972.0710

SPARTANBURG, SC

864.272.1272

CHARLOTTE, NC

980.312.5450

WWW.SEAMONWHITESIDE.COM

SEAMON,

WHITESIDE &

ASSOCIATES, INC.

NO. C-2466

048282

NGINEER

C4.4

(A SMALL-STEMMED SUDANGRASS MAY BE

SUBSTITUTED AT A RATE OF 50 LB/ACRE)

SEEDING MIXTURE: RYE (GRAIN) - 120 LB/ACRE SEEDING DATES: AUG. 15 — DEC 30

FOR FALL: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER

EROSION OR OTHER DAMAGE

REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH

ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING

FOR ADDITIONAL INFORMATION, REFER TO NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (ESCPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS, INCLUDING SEED BED PREP, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEED, AND THE RATES OF APPLICATION OF LIMESTONE, FERTILIZER, AND SEED, REFER TO NODENR ESCHOM SECTION 6.11.

Temporary Seeding Schedule SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

RECOMMENDED MIN

EROSION

CONTROL

DETAILS

SW+ PROJECT:

DRAWN BY:

CHECKED BY:

REVISION HISTORY

3/01/24

SELE-INSPECTION, RECORDIFIEDING 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 (during normal business hours) (1) Rain gauge Daily rainfall amounts If no daily rain gauge observations are made during weekend o good working holiday periods, and no individual-day rainfall information i available, record the cumulative rain measurement for those up ttended days (and this will determine if a site inspection i needed). Days on which no rainfall occurred shall be recorded a "zero." The permittee may use another rain-monitoring dev approved by the Division. (2) E&SC At least once pe 2. Date and time of the inspection, 7 calendar days and within 24 3. Name of the person performing the inspection. Indication of whether the measures were operating event ≥ 1.0 inch in Description of maintenance needs for the measure. Description, evidence, and date of corrective actions taken.
 Identification of the discharge outfalls inspected, (3) Stormwater At least once per discharge 7 calendar days outfalls (SDCs) and within 24 Date and time of the inspection, 3. Name of the person performing the inspection, hours of a rain 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 24 hours 5. Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taker 7 calendar days of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has lef hours of a rain the site limits, Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future stream has visible increased turbidity from the construction wetlands onsite 7 calendar days and within 24 activity, then a record of the following shall be made: Description, evidence and date of corrective actions taken, and hours of a rain event > 1.0 inch in | 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit. (6) Ground After each phase 1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing measures activity, construction or redevelopment, permanen ground cover).

Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as NOTE: The rain inspection resets the required 7 calendar day inspection requirement. shall not commence until the E&SC plan authority has approved these items,

(c) Ground cover is located and installed in accordance with the approved E&SC (d) The maintenance and repair requirements for all E&SC measures have been performed. e) Corrective actions have been taken to E&SC measures.

SECTION B: RECORDKEEPING

inspection at all times during normal business hours.

(a) Each E&SC measure has been installed

shown on the approved E&SC plan.

Initial and date a copy of the approved E&S0 plan or complete, date and sign an inspection report to indicate the completion of the rrective action. 2. Additional Documentation to be Kept on Site In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

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.

Initial and date each E&SC measure on a copy

E&SC measure shown on the approved E&SC

plan. This documentation is required upon the

initial installation of the E&SC measures or if

the E&SC measures are modified after initial

plan or complete, date and sign an inspection

Initial and date a copy of the approved E&SC

plan or complete, date and sign an inspection

port to indicate compliance with approved

omplete, date and sign an inspection report.

report to indicate completion of the

ound cover specifications.

nstruction phase.

The following items pertaining to the E&SC plan shall be kept on site and available for

locations, dimensions and relative elevations | and sign an inspection report that lists each

(b) A phase of grading has been completed. Initial and date a copy of the approved E&SC

(a) This General Permit as well as the Certificate of Coverage, after it is received. (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records. 3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period

of three years after project completion and made available upon request. [40 CFR 122.41]

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

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

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal

(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include

properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported Permittees shall report the following occurrences (a) Visible sediment deposition in a stream or wetland.

CFR 122.41(I)(7)]

They are 25 gallons or more,

 They are less than 25 gallons but cannot be cleaned up within 24 hours, They cause sheen on surface waters (regardless of volume), or

 They are within 100 feet of surface waters (regardless of volume). (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

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

Reporting Timeframes (After Discovery) and Other Requirements (a) Visible sediment • Within 24 hours, an oral or electronic notification. deposition in a • Within 7 calendar days, a report that contains a description of the 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 sedimentrelated causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. (b) Oil spills and Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and hazardous location of the spill or release. substances per Item 1(b)-(c) above (c) Anticipated A report at least ten days before the date of the bypass, if possible ovpasses [40 CFR The report shall include an evaluation of the anticipated quality and L22.41(m)(3)] effect of the bypass. (d) Unanticipated

 Within 24 hours, an oral or electronic notification bypasses [40 CFR . Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification Within 7 calendar days, a report that contains a description of the with the conditions 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

case-by-case basis.

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

NORTH CAROLINA Environmental Quality

| EFFECTIVE: 04/01/19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

may not apply depending on site conditions and the delegated authority having jurisdiction.

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet

Required Ground Stabilization Timeframes Stabilize within th many calendar Timeframe variations Site Area Description days after ceasing land disturbance (a) Perimeter dikes. swales, ditches, and None perimeter slopes (b) High Quality Water (HQW) Zones If slopes are 10' or less in length and are (c) Slopes steeper than not steeper than 2:1, 14 days are -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, (d) Slopes 3:1 to 4:1 ditches, perimeter slopes and HQW -10 days for Falls Lake Watershed 7 days for perimeter dikes, swales, itches, perimeter slopes and HQW Zones (e) Areas with slopes -10 days for Falls Lake Watershed unless flatter than 4:1 I there is zero slope

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

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

Temporary Stabilization Temporary grass seed covered with straw or
 Permanent grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed

Plastic sheeting

 Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding 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, asphalt or

other mulches and tackifiers

Permanent Stabilization

retaining walls Rolled erosion control products with grass seed POLYACRYLAMIDES (PAMS) AND FLOCCULANTS Select flocculants that are appropriate for the soils being exposed during

Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging

construction, selecting from the NC DWR List of Approved PAMS/Flocculants.

Apply flocculants at or before the inlets to Erosion and Sediment Control Measures

Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).

Remove leaking vehicles and construction equipment from service until the problem has been corrected.

Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum product

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

to a recycling 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.

from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds.

Locate waste containers on areas that do not receive substantial amounts of runoff

Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.

Dispose waste off-site at an approved disposal facility.

9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE Do not dump paint and other liquid waste into storm drains, streams or wetlands.

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.

Locate paint washouts at least 50 feet away from storm drain inlets and surface

Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.

Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMEN

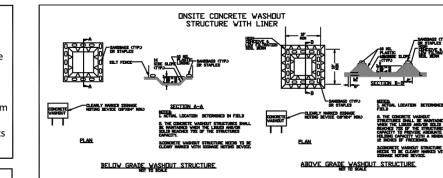
Show stockpile locations on plans. Locate earthen-material stockpile areas at leas 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably Protect stockpile with silt fence installed along toe of 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

erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA Environmental Quality

as vegetative, physical or chemical coverage techniques that will restrain accelerated



CONCRETE WASHOUTS

Do not discharge concrete or cement slurry from the site.

Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.

Install temporary concrete washouts per local requirements, where applicable. If a alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.

Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.

Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone

entrance pad in front of the washout. Additional controls may be required by the approving authority.

Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary

products, follow manufacturer's instructions. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout

HERBICIDES, PESTICIDES AND RODENTICIDES

Store and apply herbicides, pesticides and rodenticides in accordance with label

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

MOUNT PLEASANT, SC

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GREENVILLE, SC

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 $\mathsf{SUMMERVILLE}$, SC

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864.272.1272

CHARLOTTE, NC

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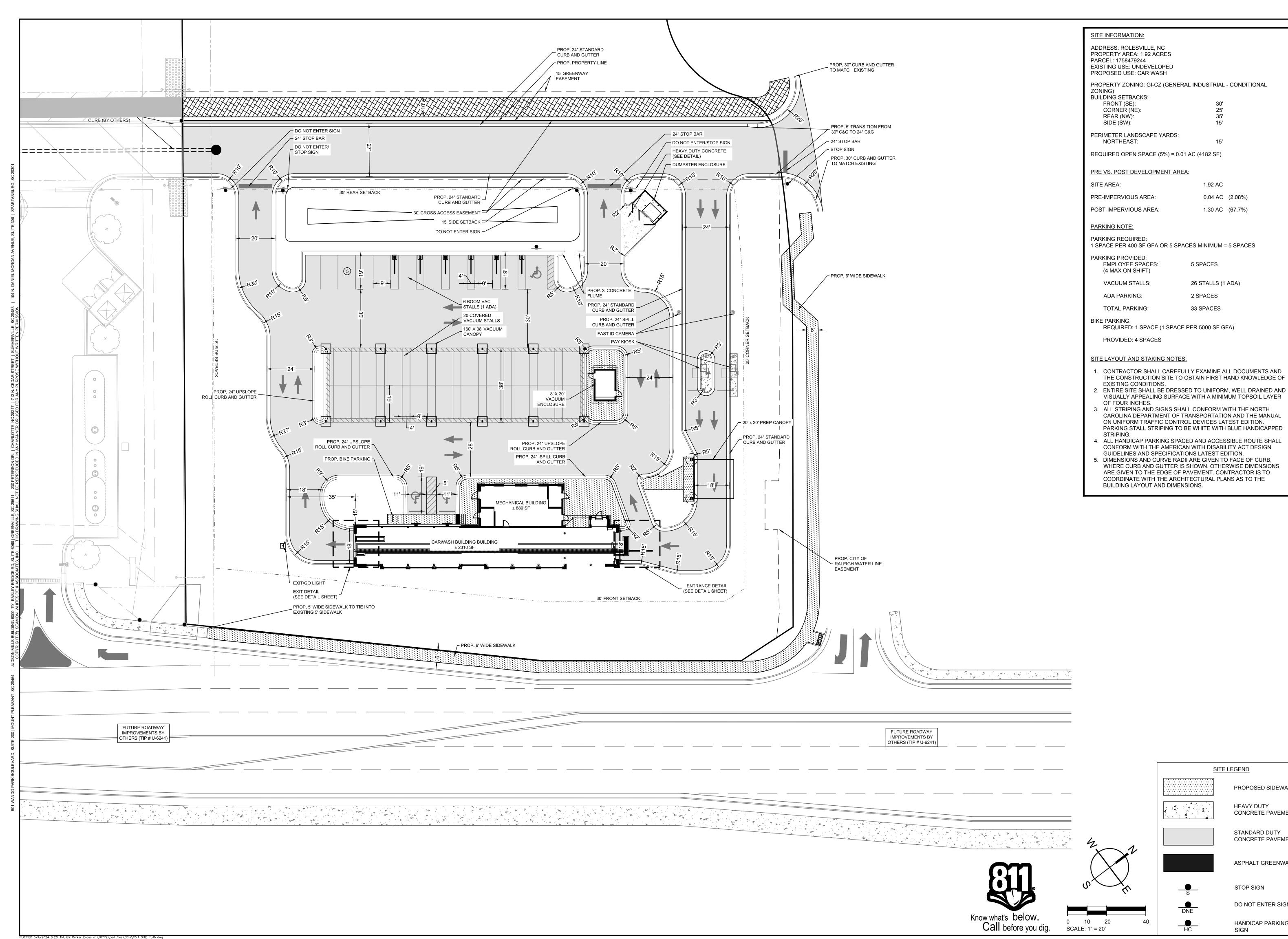
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING **EFFECTIVE: 04/01/19**

SW+ PROJECT: DRAWN BY: CHECKED BY:

REVISION HISTORY

EROSION CONTROL **DETAILS**

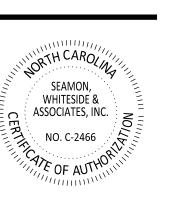
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CONCRETE PAVEMENT SITE PLAN

STOP SIGN DO NOT ENTER SIGN

SIGN

SITE LEGEND

PROPOSED SIDEWALK

CONCRETE PAVEMENT

ASPHALT GREENWAY

HANDICAP PARKING

STANDARD DUTY

HEAVY DUTY

ADDRESS: ROLESVILLE, NC PROPERTY AREA: 1.82 ACRES PARCEL: 1758479244 EXISTING USE: UNDEVELOPED PROPOSED USE: CAR WASH

PROPERTY ZONING: GI-CZ (GENERAL INDUSTRIAL - CONDITIONAL

BUILDING SETBACKS: FRONT (SE): FRONT (NE): SIDE (NW):

PERIMETER LANDSCAPE YARDS:

SIDE (SW):

PRE VS. POST DEVELOPMENT AREA:

PRE-IMPERVIOUS AREA:

0.04 AC (2.20%)

PARKING NOTE:

PARKING REQUIRED:

1 SPACE PER 400 SF GFA OR 5 SPACES MINIMUM = 5 SPACES

PARKING PROVIDED: EMPLOYEE SPACES:

5 SPACES (1 ADA) (4 MAX ON SHIFT)

34 STALLS

SITE LAYOUT AND STAKING NOTES:

CONTRACTOR SHALL CAREFULLY EXAMINE ALL DOCUMENTS AND THE CONSTRUCTION SITE TO OBTAIN FIRST HAND KNOWLEDGE OF EXISTING CONDITIONS.

1.82 AC

1.29 AC (70.88%)

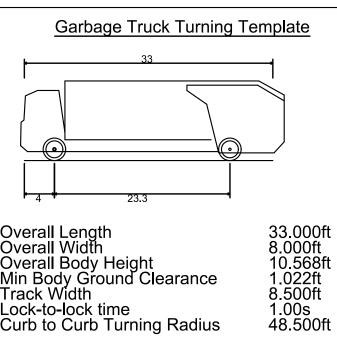
ENTIRE SITE SHALL BE DRESSED TO UNIFORM, WELL DRAINED AND VISUALLY APPEALING SURFACE WITH A MINIMUM TOPSOIL LAYER OF FOUR INCHES. ALL STRIPING AND SIGNS SHALL CONFORM WITH THE NORTH

CAROLINA DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION. PARKING STALL STRIPING TO BE WHITE WITH BLUE HANDICAPPED STRIPING.

. ALL HANDICAP PARKING SPACED AND ACCESSIBLE ROUTE SHALL CONFORM WITH THE AMERICAN WITH DISABILITY ACT DESIGN

GUIDELINES AND SPECIFICATIONS LATEST EDITION. DIMENSIONS AND CURVE RADII ARE GIVEN TO FACE OF CURB, WHERE CURB AND GUTTER IS SHOWN. OTHERWISE DIMENSIONS

ARE GIVEN TO THE EDGE OF PAVEMENT. CONTRACTOR IS TO COORDINATE WITH THE ARCHITECTURAL PLANS AS TO THE BUILDING LAYOUT AND DIMENSIONS.



Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock-to-lock time
Curb to Curb Turning Radius

Know what's below.

Call before you dig.

REVISION HISTORY

0 10 20 SCALE: 1" = 20'

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WHITESIDE & : ASSOCIATES, INC. NO. C-2466



VEHICLE STACKING & TURNING MOVEMENT

SITE INFORMATION:

ADDRESS: ROLESVILLE, NC PROPERTY AREA: 1.82 ACRES PARCEL: 1758479244 EXISTING USE: UNDEVELOPED PROPOSED USE: CAR WASH

PROPERTY ZONING: GI-CZ (GENERAL INDUSTRIAL - CONDITIONAL

BUILDING SETBACKS: FRONT (SE): FRONT (NE):

PERIMETER LANDSCAPE YARDS:

PRE VS. POST DEVELOPMENT AREA:

1.82 AC

PRE-IMPERVIOUS AREA: 0.04 AC (2.20%)

POST-IMPERVIOUS AREA: 1.29 AC (70.88%)

PARKING REQUIRED:

1 SPACE PER 400 SF GFA OR 5 SPACES MINIMUM = 5 SPACES

EMPLOYEE SPACES:

5 SPACES (1 ADA)

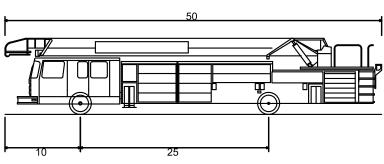
34 STALLS

SITE LAYOUT AND STAKING NOTES:

- CONTRACTOR SHALL CAREFULLY EXAMINE ALL DOCUMENTS AND THE CONSTRUCTION SITE TO OBTAIN FIRST HAND KNOWLEDGE OF EXISTING CONDITIONS.
- ENTIRE SITE SHALL BE DRESSED TO UNIFORM, WELL DRAINED AND VISUALLY APPEALING SURFACE WITH A MINIMUM TOPSOIL LAYER OF FOUR INCHES.
- ALL STRIPING AND SIGNS SHALL CONFORM WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION. PARKING STALL STRIPING TO BE WHITE WITH BLUE HANDICAPPED
- 4. ALL HANDICAP PARKING SPACED AND ACCESSIBLE ROUTE SHALL CONFORM WITH THE AMERICAN WITH DISABILITY ACT DESIGN
- GUIDELINES AND SPECIFICATIONS LATEST EDITION. DIMENSIONS AND CURVE RADII ARE GIVEN TO FACE OF CURB,

WHERE CURB AND GUTTER IS SHOWN. OTHERWISE DIMENSIONS ARE GIVEN TO THE EDGE OF PAVEMENT. CONTRACTOR IS TO COORDINATE WITH THE ARCHITECTURAL PLANS AS TO THE BUILDING LAYOUT AND DIMENSIONS.





Copy of Rolesville Fire Truck 1 Overall Length Overall Width Overall Body Height Min Body Ground Clearance Track Width Lock-to-lock time Max Wheel Angle

50.000ft 8.333ft 10.101ft 0.920ft 8.333ft 0.10s 45.00°

SW+ PROJECT: DRAWN BY: CHECKED BY:

MOUNT PLEASANT, SC

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NO. C-2466

REVISION HISTORY

FIRE PROTECTION PLAN

Know what's below.

Call before you dig.

0 10 20 SCALE: 1" = 20'

ADDRESS: ROLESVILLE, NC PROPERTY AREA: 1.82 ACRES EXISTING USE: UNDEVELOPED

PROPERTY ZONING: GI-CZ (GENERAL INDUSTRIAL - CONDITIONAL

PERIMETER LANDSCAPE YARDS:

PRE VS. POST DEVELOPMENT AREA:

PRE-IMPERVIOUS AREA: 0.04 AC (2.20%)

1.29 AC (70.88%)

1.82 AC

1 SPACE PER 400 SF GFA OR 5 SPACES MINIMUM = 5 SPACES

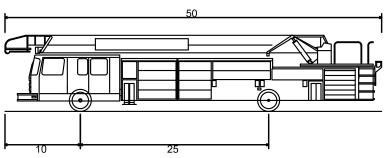
5 SPACES (1 ADA)

34 STALLS

SITE LAYOUT AND STAKING NOTES:

- CONTRACTOR SHALL CAREFULLY EXAMINE ALL DOCUMENTS AND THE CONSTRUCTION SITE TO OBTAIN FIRST HAND KNOWLEDGE OF
- ENTIRE SITE SHALL BE DRESSED TO UNIFORM, WELL DRAINED AND VISUALLY APPEALING SURFACE WITH A MINIMUM TOPSOIL LAYER
- ALL STRIPING AND SIGNS SHALL CONFORM WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
- PARKING STALL STRIPING TO BE WHITE WITH BLUE HANDICAPPED . ALL HANDICAP PARKING SPACED AND ACCESSIBLE ROUTE SHALL
- CONFORM WITH THE AMERICAN WITH DISABILITY ACT DESIGN GUIDELINES AND SPECIFICATIONS LATEST EDITION.
- DIMENSIONS AND CURVE RADII ARE GIVEN TO FACE OF CURB, WHERE CURB AND GUTTER IS SHOWN. OTHERWISE DIMENSIONS ARE GIVEN TO THE EDGE OF PAVEMENT. CONTRACTOR IS TO COORDINATE WITH THE ARCHITECTURAL PLANS AS TO THE BUILDING LAYOUT AND DIMENSIONS.





Copy of Rolesville Fire Truck 1 Overall Length Overall Width Overall Body Height Min Body Ground Clearance Track Width Lock-to-lock time Max Wheel Angle

Know what's below.

Call before you dig.

50.000ft 8.333ft 10.101ft 0.920ft 8.333ft 0.10s 45.00°

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NO. C-2466

REVISION HISTORY

FIRE PROTECTION PLAN

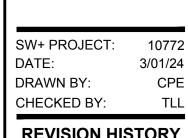
0 10 20 SCALE: 1" = 20'



Know what's below.
Call before you dig.

SPOT ELEV KEY (FINISHED GRADING)

SCALE: 1" = 20'

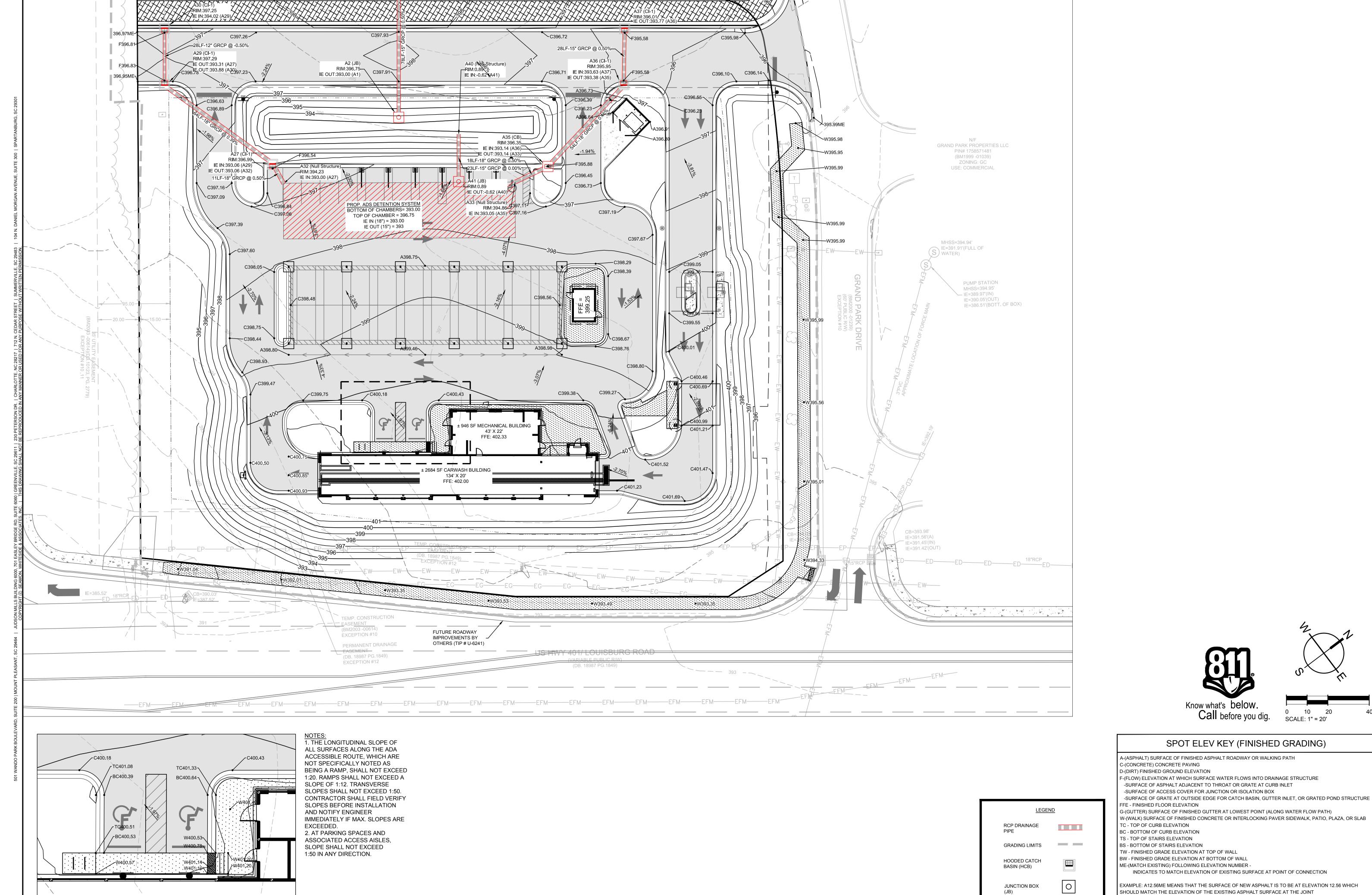


REVISION HISTORY

OVERALL GRADING AND

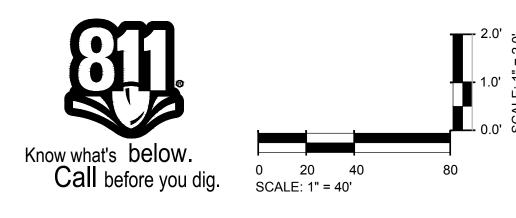
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DRAINAGE PLAN



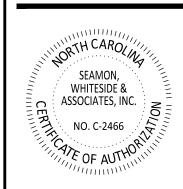
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SW+ PROJECT: 10772 3/01/24 DRAWN BY: CHECKED BY: **REVISION HISTORY**

DRAINAGE PROFILES

PROP. 2" PEX WATER

PROP. 2" WATER METER —

2" WATERLINE TO TIE INTO

SCALE: 1" = 10'

SCALE: 1" = 1'

EXISTING 6" WATER MAIN

PROP. 2" COPPER WATER LINE -

PROP. 2" BACK FLOW PREVENTER —

STANDARD UTILITY NOTES

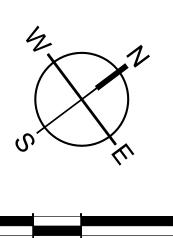
- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN
- SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- 2. UTILITY SEPARATION REQUIREMENTS:
- 2.a. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE 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.
- 2.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. 2.c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A
- SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS 2.d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER
- **FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER** 2.e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE
- CLEARANCE (PER CORPUD DETAILS W41 & S-49). 2.f. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL
- SEPARATION REQUIRED. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- 4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
- 5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE
- CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT 6. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS
- **REUSE MAINS.** 7. 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 8. INSTALL ¾" AND 2" 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
- 9. INSTALL 6 PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM. 10. 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.**
- 11. 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. 12. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- 13. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT.
- CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
- 14. 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. 15. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF
- SOUTHERN CALIFORNIA APPROVAL LIST.
- 16. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
- 17. 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 CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION. 18. NOTICE FOR PROJECTS WITH REPLACED OR OVERSIZED MAINS: IF THE CITY'S REIMBURSEMENT FOR AN
- OVERSIZED MAIN OR URBAN MAIN REPLACEMENT PROJECT IS \$250,000 OR GREATER, THE PROJECT MUST BE PUBLICLY BID.
- 19. RALEIGH WATER STAFF MAY NEED TO BE ONSITE WHILE ANY CONSTRUCTION OCCURS IN THE VICINITY OF THE CRITICAL WATER TRANSMISSION MAIN. PLEASE EMAIL WDSERVICEREQUESTDL@RALEIGHNC.GOV AT A MINIMUM 72 HOURS IN ADVANCE TO ANY WORK IN THE VICINITY OF THIS CRITICAL WATER TRANSMISSION MAIN.

BACKFLOW PREVENTION NOTES

- 1. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY AS APPROVED BY TOWN OF ROLESVILLE AND INSTALLED BY CONTRACTOR DURING CONSTRUCTION. ASSEMBLY TO INSTALLED ABOVE GROUND WITHIN INSULATED ENCLOSURE PER TOWN OF
- 2. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED
- 3. EACH REQUIRED BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE AND YEARLY THEREAFTER. SUBMIT PASSING TEST REPORTS TO TOWN OF ROLESVILLE.
- 4. DUCTILE IRON, COPPER, OR OTHER METALLIC PIPING (NO PVC) IS TO BE USED WITHIN 5 FEET OF ALL BACKFLOW PREVENTION 5. TAMPER SWITCHES SHALL BE INSTALLED ON THE FIRE LINE BACKFLOW PREVENTION. INSTALL 3/4" CONDUIT FROM FIRE LINE

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.





SCALE: 1" = 20'

MOUNT PLEASANT, SC 843.884.1667 GREENVILLE, SC 864.298.0534 SUMMERVILLE, SC

843.972.0710 SPARTANBURG, SC 864.272.1272 CHARLOTTE, NC

980.312.5450 WWW.SEAMONWHITESIDE.COM

WHITESIDE & ASSOCIATES, INC. NO. C-2466



UTILITY PLAN PROFILES

3/01/24

SW+ PROJECT:

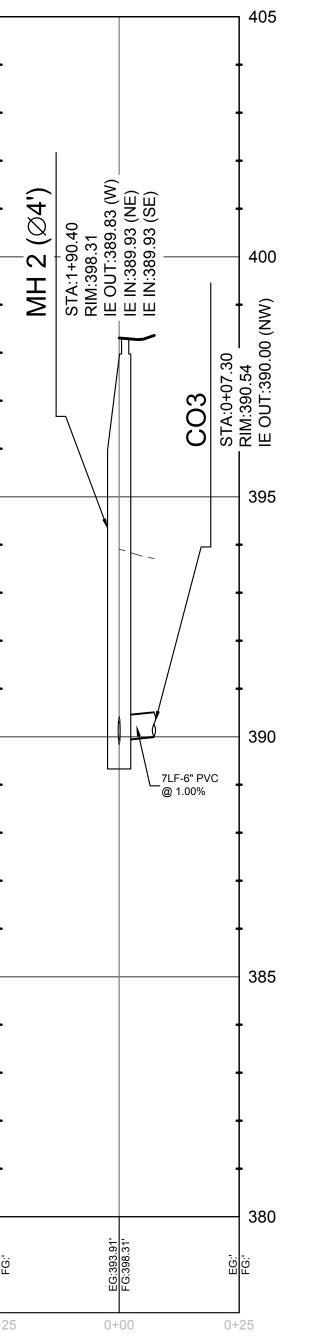
REVISION HISTORY

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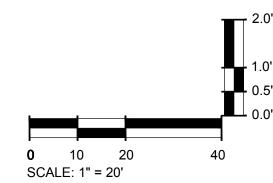
C7.1

AND

MH 1 - BUILDING TIE-IN PROFILE









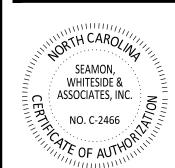
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Know what's below.

Call before you dig.

MOUNT PLEASANT, SC 843.884.1667 GREENVILLE, SC 864.298.0534 SUMMERVILLE, SC 843.972.0710 SPARTANBURG, SC 864.272.1272 CHARLOTTE, NC 980.312.5450

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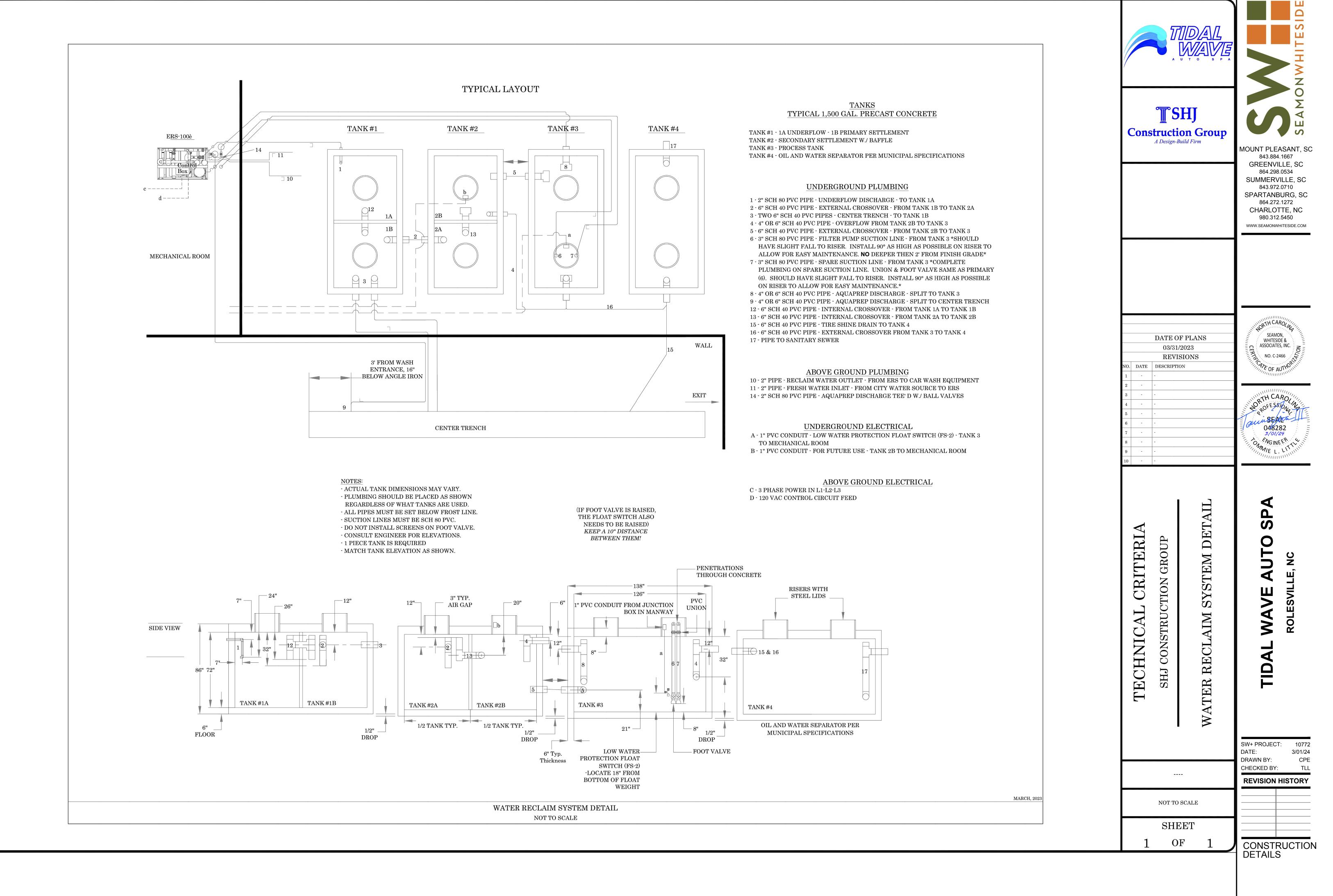


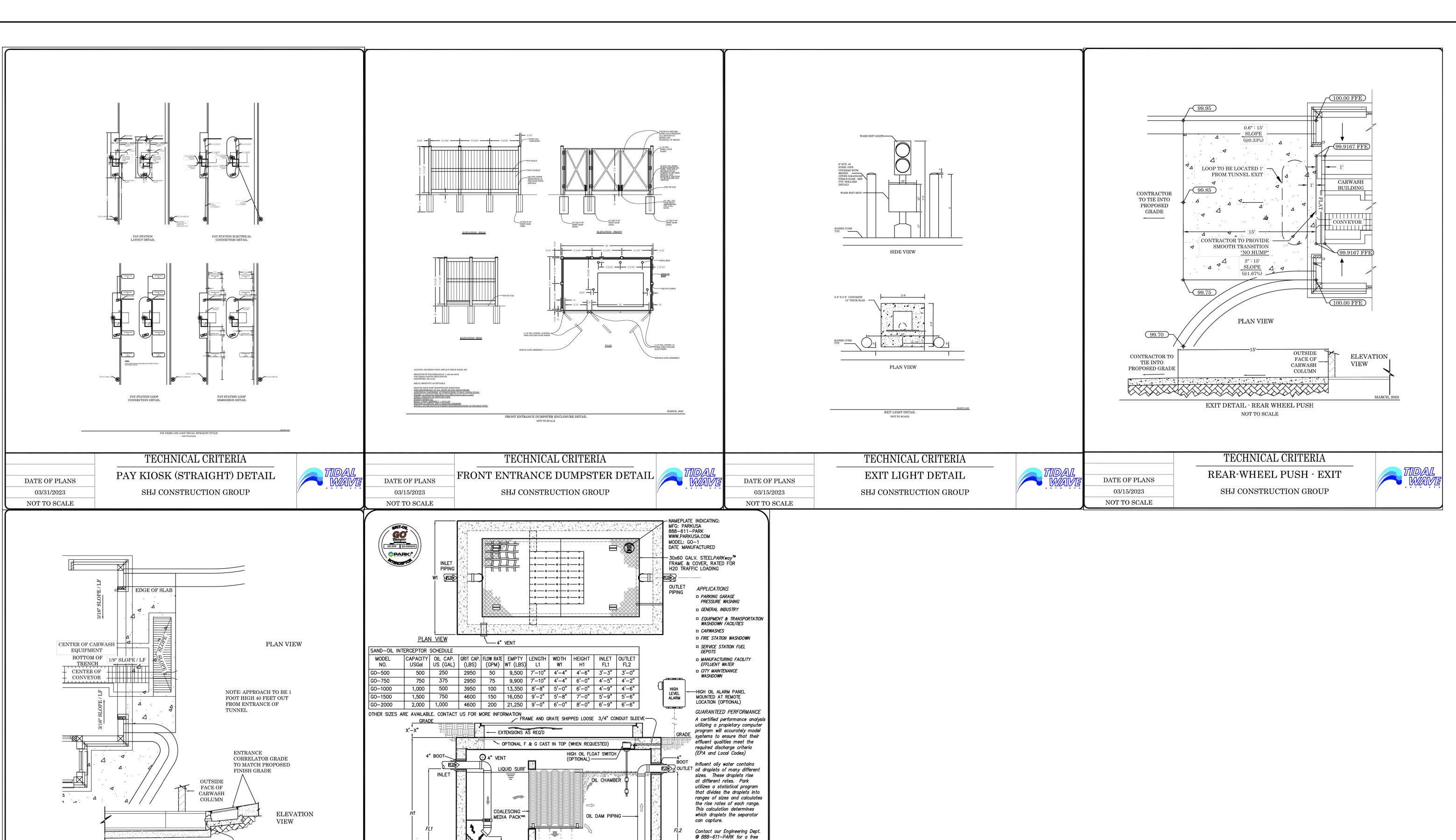




SW+ PROJECT: **REVISION HISTORY**

UTILITY PROFILES





performance evaluation.

Trooper

Trooper

Grit Oil Interceptor

Grit Oil Interceptor Model GO

Sizes 500 thru 2000

DRN ENG DWG. NO.

3" PVC DRAIN FROM

RPCA CERTIFED PLANT

ELEVATION

Specifications

Engineering Data

CONCRETE:

DIFFUSION INLET
BAFFLE WEIR

Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic

with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming

Interceptor is structurally and hydraulically engineered conforming to Uniform Plumbing Code. Nominal total liquid capacity

and oil holding capacity as indicated. Recommended for flow rates

of 5 to 180 GPM (consult Park for proper sizing). Manufacturer

shall submit performance calculations for oil & water seperation certified by a licensed professional engineer. Field excavation and preparation shall be completed prior to delivery of interceptor.

resistant.

construction at floor and first stage of wall

to ASTM A615 on required centers or equal.

& lifting handles. All materials to be corrosion

1/4" thick nonskid floor plate, boltdown,

Access frame & cover shall be fabricated with min.

INT. COATING

PROJECT:

CUSTOMER:

ENGINEER:

ORDER #:

DATE 2018

GUARANTEED PERFORMANCE FOR CODE MAXIMUM OIL CONCENTRATION (SANITARY SEWER 400 PPM, STORM SEWER 15 PPM) © ParkUSA. ALL RIGHTS RESERVED.

— CORRELATOR PIT TO

CONVEYOR PIT

ENTRANCE DETAIL - REAR WHEEL PUSH

NOT TO SCALE

TECHNICAL CRITERIA

REAL-WHEEL PUSH - ENTRANCE

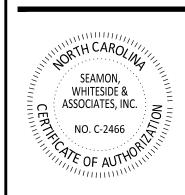
SHJ CONSTRUCTION GROUP

DATE OF PLANS

03/15/2023

NOT TO SCALE

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SW+ PROJECT: 3/01/24 DRAWN BY: CHECKED BY: **REVISION HISTORY**

CONSTRUCTION DETAILS

PREPARED SUBGRADE

ALTERNATE UPSLOPE SECTION

TYPICAL DOWNSLOPE SECTION

24" ROLL CURB AND GUTTER
SCALE: NOT TO SCALE

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> SEAMON, WHITESIDE & ASSOCIATES, INC. NO. C-2466



CAST-IN-PLACE

AND GUTTER

L CONCRETE CURB

----FACE

RESERVED

PARKING

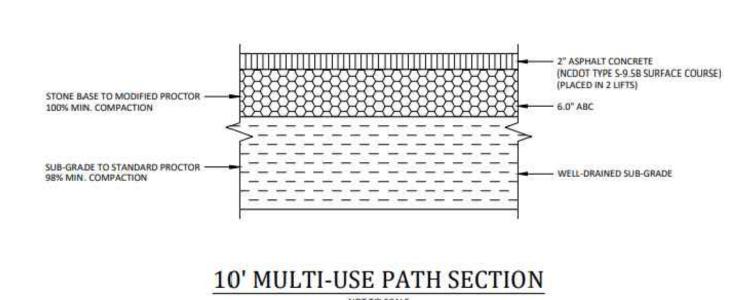
VAN

CCESSIBLE

BOTTOM OF

LOWEST SIGN

ALTERNATE UPSLOPE SECTION



10' MULTI-USE PATH SECTION (11) SCALE: NOT TO SCALE

SW+ PROJECT: DRAWN BY: CHECKED BY: **REVISION HISTORY**

CONSTRUCTION

DETAILS

C8.3

PAVEMENT-MARKING SCALE: NOT TO SCALE

1. ALL MARKINGS SHALL BE PAINT.

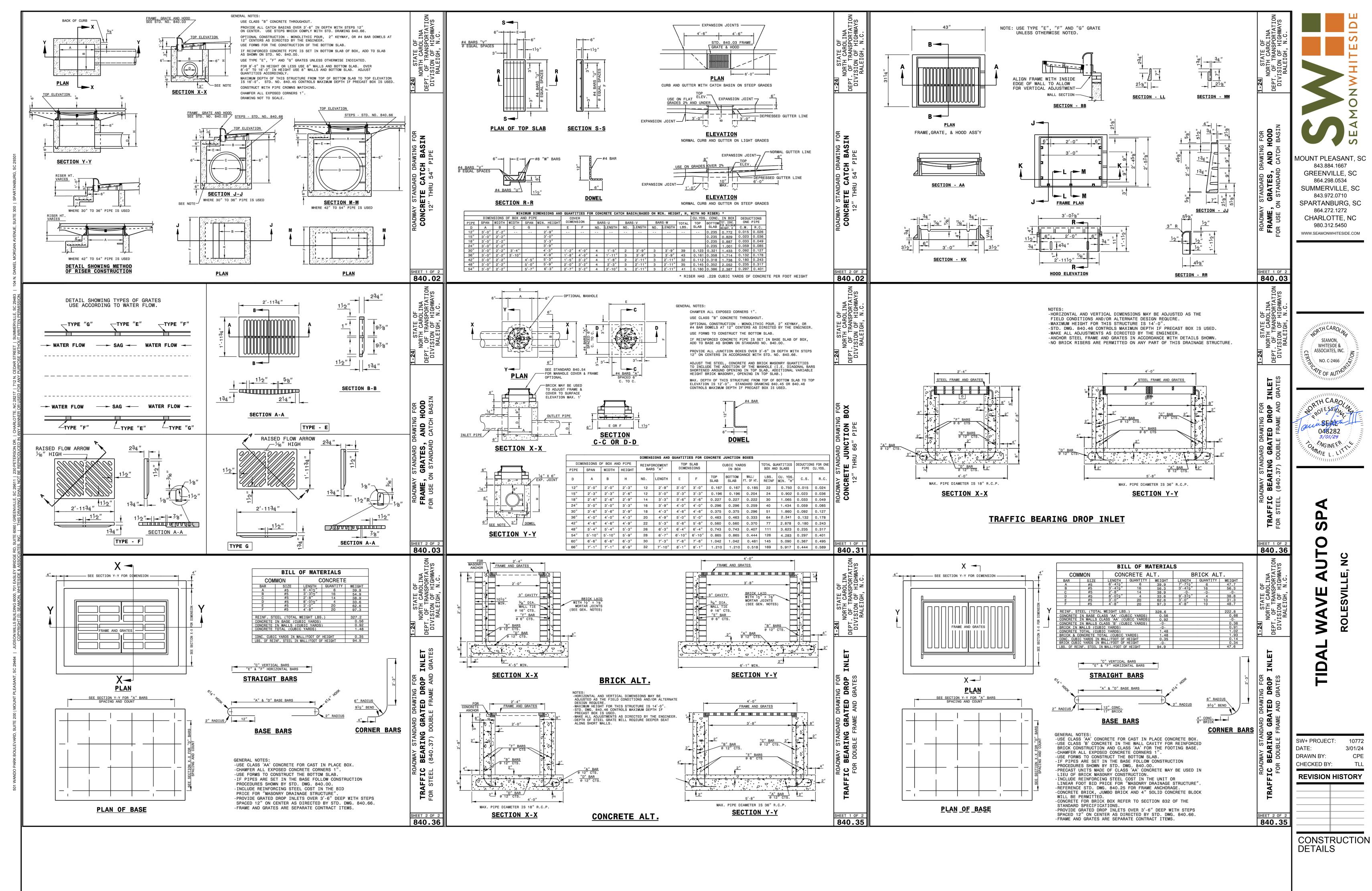
R1=3'-3"

R2=2'-3"

2. ALL MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH

CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

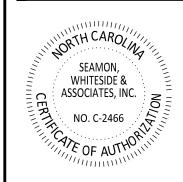
N.C.D.O.T. STANDARD SPECIFICATIONS AND NORTH



C8.4



843.884.1667
GREENVILLE, SC
864.298.0534
SUMMERVILLE, SC
843.972.0710
SPARTANBURG, SC
864.272.1272
CHARLOTTE, NC
980.312.5450
www.seamonwhiteside.com





DAL WAVE AUTO SPA

SW+ PROJECT: 10772
DATE: 3/01/24
DRAWN BY: CPE
CHECKED BY: TLL

REVISION HISTORY

CONSTRUCTION DETAILS

PROJEC	CT INFORMATION
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	





TWAS S MAIN ROLESVILLE, NC, USA

SC-160LP STORMTECH CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE STORMTECH SC-160LP.
- 2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.5"
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-160LP SYSTEM

- STORMTECH SC-160LP CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A
 PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-160LP CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
- 3. FOUNDATION STONE AND EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE; AASHTO M43 #3,357, 4, 467, 5, 56, OR 57.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. THE DEPTH OF FOUNDATION STONE SHALL BE DETERMINED BASED ON THE SUBGRADE BEARING CAPACITY PROVIDED BY THE SITE DESIGN ENGINEER.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES CONCERNING CHAMBER FOUNDATION DESIGN AND SUBGRADE BEARING CAPACITIES TO THE SITE DESIGN ENGINEER
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 8. CHAMBERS SHALL BE INSTALLED "TOE TO TOE". NO ADDITIONAL SPACING BETWEEN ROWS IS REQUIRED.
- 9. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 10. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-160LP CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-106LP CONSTRUCTION GUIDE".
- 2. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

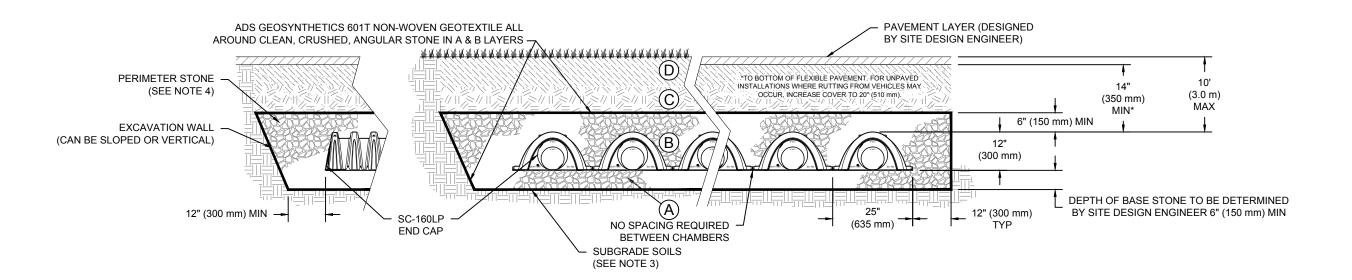
1	PROPOSED LAYOUT	PROPOSED ELEVA	ATIONS:				*INVERT ABOVE B	SASE OF CHAMBER		
	STORMTECH SC-160LP CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEME	NT/UNPAVED): 399.4		ITEM ON LAYOUT	DESCRIPTION	INVER	RT* MAX FLOW		
	STORMTECH SC-160LP END CAPS STONE ABOVE (in)		TRAFFIC): 391 12	2 2MANIFOLD		12" x 8" REDUCING CONCENTRIC MOLDED FITTINGS (12" PIPE)	-1.17		1	
6	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CO	DNCRETE PAVEMENT): 390.62	2		12" x 8" REDUCING CONCENTRIC MOLDED FITTINGS (8" PIPE) 18" x 8" ADS N-12 (18" PIPE)	0.96 -4.13		_	≤
40	STONE VOID INSTALLED SYSTEM VOLUME (CF)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBL TOP OF STONE:	_E_PAVEMENT): 390.62 389.99	2 MANIFOLD 5	B	18" x 8" ADS N-12 (8" PIPE)	0.96	5"	J Z Sn	R S
8351	(PERIMETER STONE INCLUDED)	TOP OF SC-160LP CHAMBER: 8" x 8" BOTTOM MANIFOLD INVERT:	389.45	5 MANIFOLD	<u> </u>	8" x 8" BOTTOM MANIFOLD, MOLDED FITTINGS 15" x 8" ADS N-12 (15" PIPE)	0.96 -2.58		MAIN NC, USA	DRAWN: KH
	(BASE STONE INCLUDED)	8" ISOLATOR ROW PLUS INVERT:	1 300.5		0	15" x 8" ADS N-12 (8" PIPE)	0.96	5"	S H	품 공
	SYSTEM AREA (SF) SYSTEM PERIMETER (ft)	8" ISOLATOR ROW PLUS INVERT: 8" ISOLATOR ROW PLUS INVERT:		3 CONCRETE STRUCTURE 3 CONCRETE STRUCTURE		OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		3.4 CFS OUT	WAS	
0 10.0		8" BOTTOM CONNECTION INVERT:	388.53	3W/WEIR	F	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		4.4 CFS IN	TWA	
		18" x 8" BOTTOM MANIFOLD INVERT (8" PIPE): 15" x 8" BOTTOM MANIFOLD INVERT (8" PIPE):	388.53	3 CONCRETE STRUCTURE 3 W/WEIR	G	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		5.9 CFS IN	_ Z _ Z	
		12" x 8" BOTTOM MANIFOLD INVERT (8" PIPE): BOTTOM OF SC-160LP CHAMBER:	388.5	의CONCRETE STRUCTURE	н	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		0.7 CFS IN	1	#
		12" x 8" BOTTOM MANIFOLD INVERT (12" PIPE):	388.3	5 W/WEIR UNDERDRAIN		4" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		0.7 01 0 114	-	
		15" x 8" BOTTOM MANIFOLD INVERT (15" PIPE): 18" x 8" BOTTOM MANIFOLD INVERT (18" PIPE):	388.2 ² 388.1 ²	4		A ADO N-12 DONE WALL! EN ONNIED HID E ONDENDININ	I	I	-	DATE: PROJECT
		UNDERDRAIN INVERT:	387.99	5						A R
		BOTTOM OF STONE:	387.99	5						
	-			223.87' ———			-			
	<u> </u>			213.97'						2
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	C H I D E								StormTe	40 Chamber System
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	C H I D E								StormTe	Chamber 888-892-26
	ISOLATOR ROW PLUS								StormTe	Chamber 888-892-26
									StormTe	Chamber 888-892-26
***	ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES)	LIS125 WOVEN GEOTEXTILE OVER REDDING	NOTES MANIFOLD SIZE TO BE DETER	RMINED BY SITE DESIGN ENGIN	JEER SEE TE	CH NOTE #6 32 FOR MANIFOLD SIZING GUIDANCE	A A B 80.		StormTe	Chamber 888-892-26
	ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES) PLACE MINIMUM 12.50' OF ADSPL STONE AND UNDERNEATH CHAM	LUS125 WOVEN GEOTEXTILE OVER BEDDING MBER FEET FOR SCOUR PROTECTION AT ALL	 MANIFOLD SIZE TO BE DETER DUE TO THE ADAPTATION OF 	RMINED BY SITE DESIGN ENGIN THIS CHAMBER SYSTEM TO SE	IEER. SEE TE	ECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.	A A B 80.	DARD MANIFOLD	StormTe	Chamber 888-892-26
	ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES) PLACE MINIMUM 12.50' OF ADSPL		 MANIFOLD SIZE TO BE DETER DUE TO THE ADAPTATION OF COMPONENTS IN THE FIELD 				D COUPLE ADDITIONAL PIPE TO STANK		StormTe	20 40 Chamber
	ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES) PLACE MINIMUM 12.50' OF ADSPL STONE AND UNDERNEATH CHAM		MANIFOLD SIZE TO BE DETER DUE TO THE ADAPTATION OF COMPONENTS IN THE FIELD. THE SITE DESIGN ENGINEER THIS CHAMBER SYSTEM WAS DETERMINING	MUST REVIEW ELEVATIONS AN DESIGNED WITHOUT SITE-SPE	ND IF NECES ECIFIC INFOR	SARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUENCED ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE	D COUPLE ADDITIONAL PIPE TO STAND JIREMENTS ARE MET. DESIGN ENGINEER IS RESPONSIBLE F	FOR	4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473	0 20 40 Chamber
	ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES) PLACE MINIMUM 12.50' OF ADSPL STONE AND UNDERNEATH CHAM		 MANIFOLD SIZE TO BE DETER DUE TO THE ADAPTATION OF COMPONENTS IN THE FIELD. THE SITE DESIGN ENGINEER THIS CHAMBER SYSTEM WAS DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDED. 	MUST REVIEW ELEVATIONS AN B DESIGNED WITHOUT SITE-SPE PROVIDING THE BEARING CAP	ND IF NECES: ECIFIC INFOR PACITY OF TH		COUPLE ADDITIONAL PIPE TO STANDUREMENTS ARE MET. DESIGN ENGINEER IS RESPONSIBLE FOR DECREASED ONCE THIS INFORMATION.	FOR ON IS	4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473	TH 0 Chamber 1

ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (355 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

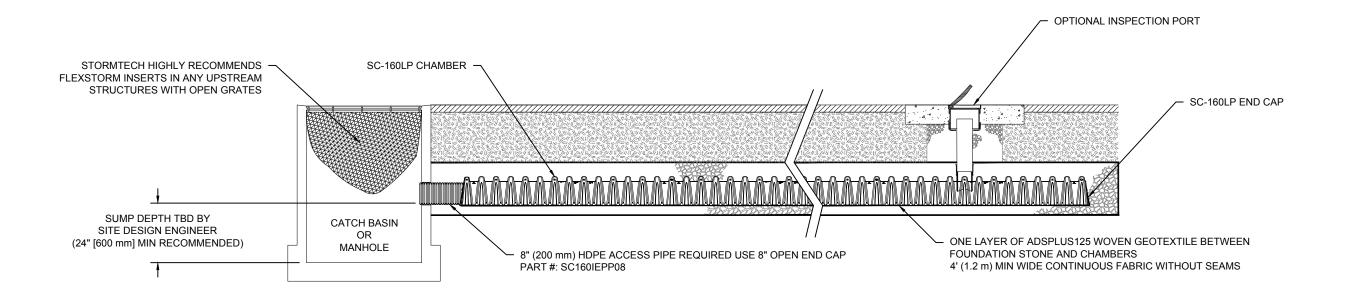
- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 2. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK). AASHTO DESIGN TRUCK.
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - . TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.5"
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

TWAS S MAIN	ROLESVILLE, NC, USA	E: DRAWN: KH	PROJECT #: CHECKED: N/A	V THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE
		DATE	DESCRIPTION	SENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIE TONS, AND PROJECT REQUIREMENTS.
			DATE DRW CHK	EER OR OTHER PROJECT REPRE LL APPLICABLE LAWS, REGULAT
®		Cnamber System	888-892-2694 WWW.STORMTECH.COM)ED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINE E PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET A
4640 TRUEMAN BLVD HILLIARD, OH 43026	1-000-735-7473			THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.
3	SH C	EET	5	-



SC-160LP ISOLATOR ROW PLUS DETAIL

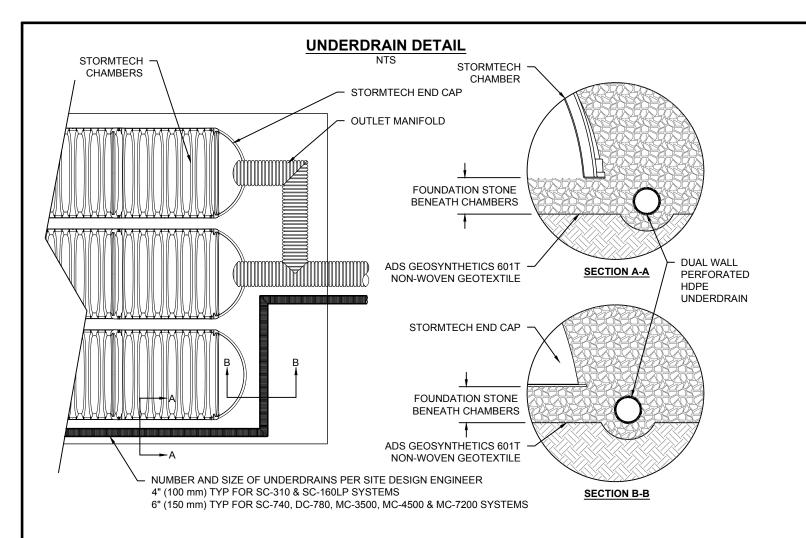
INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
 - A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
 - A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

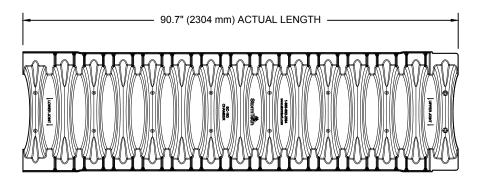
- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

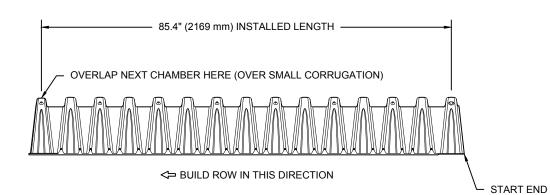
ROLESVILLE, NC, USA
DRAWN: KH
CHECKED: N **TWAS S MAIN StormTech**® Chamber System 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 SHEET 4 OF 5

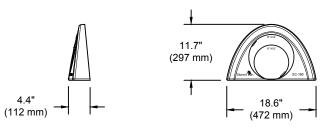


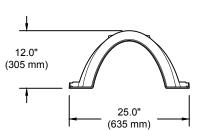
SC-160LP TECHNICAL SPECIFICATION

NTS









NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
CHAMBER STORAGE

CHAMBER STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT

25.0" X 12.0" X 85.4" (635 mm X 305 mm X 2169 mm) 6.85 CUBIC FEET (0.19 m³)

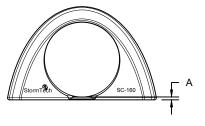
16.0 CUBIC FEET (0.45 m³) 24.0 lbs. (10.9 kg)

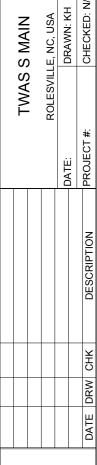
*ASSUMES 6" (152 mm) ABOVE, 6" (152 mm) BELOW, AND STONE BETWEEN CHAMBERS WITH 40% STONE POROSITY.

PART#	STUB	Α
SC460EDD	6" (150 mm)	0.66" (16 mm)
SC160EPP	8" (200 mm)	0.80" (20 mm)
SC160EPP08	8" (200 mm)	0.96" (24 mm)

ALL STUBS ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

NOTE: ALL DIMENSIONS ARE NOMINAL





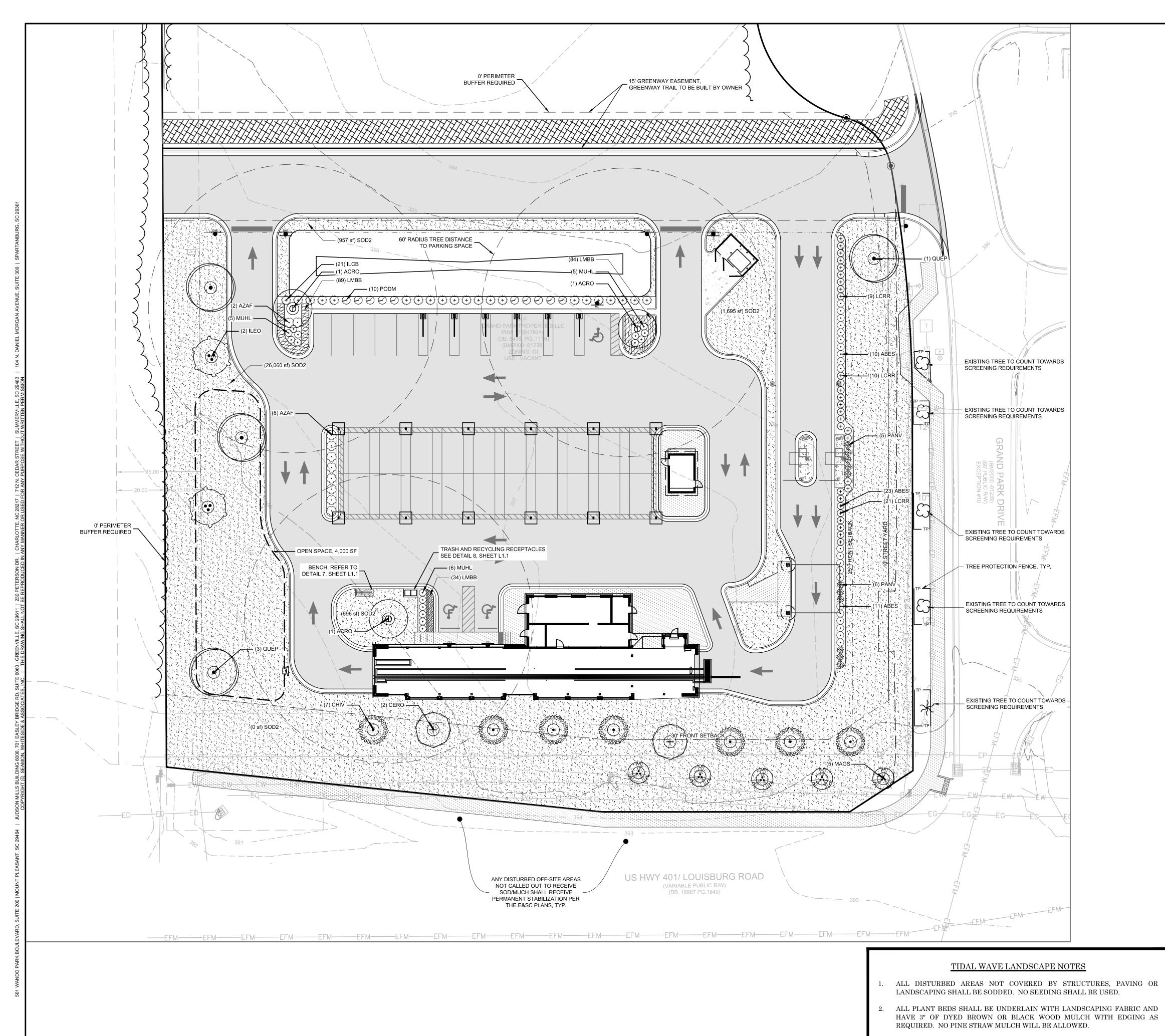
StormTech® Chamber System

540 I KUEMAN BLVD ILLIARD, OH 43026 800-733-7473



SHEET

5 OF 5



GENERAL NOTES:

- 1. SEE EROSION CONTROL PLANS PLANS [SHEETS C4.1 C4.3] FOR SILT FENCE LOCATIONS, TREE PROTECTION ZONES AND BARRICADES, AND ADDITIONAL NOTES AND DETAILS.
- 2. FOR TREE REMOVALS, PLEASE REFER TO SHEETS C3.1.
- 3. FOR REQUIRED TREE MITIGATION AND DEVELOPMENT INCHES PER THE TOWN OF ROLESVILLE ZONING ORDINANCE, PLEASE REFER TO SHEET L1.1 FOR PLANT SCHEDULE QUANTITY AND SIZES.
- 4. THE OVERALL PLANT QUANTITY FOR THE ENTIRE SITE CAN BE FOUND ON THE MASTER PLAN SCHEDULE,
 - SEE SITE PLAN [C5.1] FOR SITE LABELS, INFORMATION AND DETAILS.
- CONTRACTOR TO CONTACT CIVIL ENGINEER OR LANDSCAPE ARCHITECT REGARDING ANY SITE WORK MODIFICATIONS FROM THESE PLANS PRIOR TO CHANGES IN THE FIELD. CONTACT: 980-312-5450

OPEN SPACE

SITE AREA = 79,279.2 SF OPEN SPACE REQUIREMENTS = 5% OF TOTAL SITE AREA OPEN SPACE REQUIRED = 3,964 SF

OPEN SPACE PROVIDED = 4,293 SF

	US HWY 401 / LOUISE	BURG ROAD (317 LF)	
	STREET BUFFER	PLANTINGS REQUIRED	PLANTINGS PROVIDED
MINIMUM BUFFER WIDTH	30' MIN.		
CANOPY TREE	1 TREE PER 40 LF	1	1
UNDERSTORY TREE*	2 TREES PER 40 LF	14	14

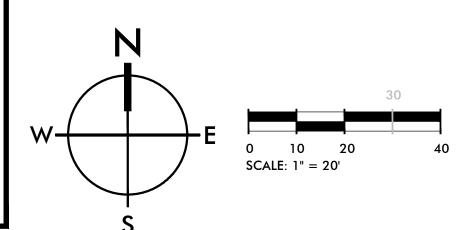
*UNDERSTORY TREES SHALL BE USED WHERE OVERHEAD UTILITIES CONFLICTS WITH STREET BUFFER

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
TREES	QUEP	1	QUERCUS PALUSTRIS / PIN OAK	2.5" CAL	8' MIN	4`-6`	AS SHOWN	FWF, SP
UNDERSTOR	RY TREES			•				
+	CERO	2	CERCIS CANADENSIS 'OKLAHOMA' / OKLAHOMA REDBUD	1.5" CAL	8' MIN	8`	AS SHOWN	FWF, SP
	CHIV	7	CHIONANTHUS VIRGINICUS / WHITE FRINGETREE	1.5" CAL	8, WIN	8,	AS SHOWN	FWF, SP
To the second	MAGS	5	MAGNOLIA X SOULANGIANA / SAUCER MAGNOLIA	1.5" CAL	8` MIN	8.	AS SHOWN	MS, FWF,

	GRAND PARK I	DRIVE (275 LF)	
	STREET BUFFER	PLANTINGS REQUIRED	PLANTINGS PROVIDED
MINIMUM BUFFER WIDTH	10' MIN.		
CANOPY TREE	1 TREE PER 60 LF	5	6 (1 PROPOSED TREE, 5 EX. TREES TO REMAIN)

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	REMA
TREES			_				_	_
	QUEP	1	QUERCUS PALUSTRIS / PIN OAK	2.5" CAL	8` MIN	4`-6`	AS SHOWN	FWF,

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME
TREES			
((ACRO	3	ACER RUBRUM 'OCTOBER GLORY' TM / OCTOBER GLORY MAPLE
•	ILEO	2	ILEX OPACA / AMERICAN HOLLY
	QUEP	4	QUERCUS PALUSTRIS / PIN OAK
UNDERSTOR	RY TREES	•	
+	CERO	2	CERCIS CANADENSIS 'OKLAHOMA' / OKLAHOMA REDBUD
RENOWN AND THE PROPERTY OF THE	CHIV	7	CHIONANTHUS VIRGINICUS / WHITE FRINGETREE
	MAGS	5	MAGNOLIA X SOULANGIANA / SAUCER MAGNOLIA
SHRUBS			
(•)	ABES	21	ABELIA X GRANDIFLORA `SHERWOODII` / DWARF ABELIA
	AZAF	10	AZALEA INDICA `FORMOSA` / FORMOSA AZALEA
14+	ILCB	21	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY
(+)	LCRR	29	LOROPETALUM CHINENSE RUBRUM `RUBY` / DWARF RUBY FRINGE FLOWER
	PODM	10	PODOCARPUS MACROPHYLLUS / SOUTHERN YEW
GRASSES	•		•
(+)	MUHL	16	MUHLENBERGIA FILIPES / SWEETGRASS
	PANV	11	PANICUM VIRGATUM `HEAVY METAL` / HEAVY METAL SWITCH GRASS
GROUND CO	VERS		
	LМВВ	207	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF
SOD/SEED		1201	ENTION E MICCONICE DIO DECE / DIO DECE ELETTORE
	SOD2	29,634 SF	CYNODON DACTYLON 'TIFTUF' / TIFTUF BERMUDA GRASS



ALL RIVER ROCK SHALL BE 4"-6" MINIMUM IN DIAMETER AND SHALL BE

AN UNDERGROUND IRRIGATION SYSTEM, SHALL BE INSTALLED AND SHALL

COMPLY WITH ALL LOCAL MUNICIPAL CODES AND REGULATIONS AND ALSO COMPLY WITH THE LATEST NATIONAL ELECTRIC CODE RULES FOR

IF THERE IS NO PLANT BED AGAINST THE CAR WASH TUNNEL, VAC

HOUSE(S), OR DUMPSTER ENCLOSURE, THEN THERE SHALL BE A 18 INCH

UNDERLAIN WITH LANDSCAPING FABRIC.

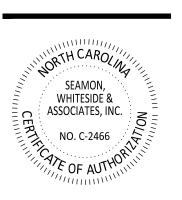
ALL ELECTRIC WORKS AND MATERIALS.

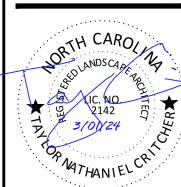
MINIMUM STRIP OF RIVER ROCK INSTALLED.





MOUNT PLEASANT, SC 843.884.1667 GREENVILLE, SC 864.298.0534 SUMMERVILLE, SC 843.972.0710 SPARTANBURG, SC 864.272.1272 CHARLOTTE, NC 980.312.5450 WWW.SEAMONWHITESIDE.COM





SW+ PROJECT: DRAWN BY: CHECKED BY:

REVISION HISTORY

LANDSCAPE

PLAN

L1.0

STRUCTURES. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE LANDSCAPE CONTRACTOR SHALL FILL THE BOTTOM OF HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE WITHIN A TWENTY-FOUR (24) HOUR PERIOD. IF WATER DOESN'T PERCOLATE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLING PLANTS.

SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, THE LANDSCAPE CONTRACTOR MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE

PLANTS TO BE INSTALLED THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER

CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE

PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT SCHEDULE ARE FOR REFERENCE ONLY AND THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT SCHEDULE SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS

NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST SHOULD FOLLOW OR EXCEED THE STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS (ANSI Z-60.1). UNLESS OTHERWISE SPECIFIED, ANY SIZE SPECIFIED SHALL BE CONSIDERED MINIMUM. MINIMUMS FOR HEIGHT, SPREAD, OR CALIPER SHALL TAKE PRECEDENT OVER A SPECIFIED CONTAINER SIZE.

ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS' VERTICAL

GROWTH (TOP CANDLE)

NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OVERNIGHT. 12. REMOVE BURLAP/STRAPPING AND WIRE BASKET FROM TOP 1/3 OF ROOT BALL ON TREES.

13. REMOVE PAPER, PLASTIC OR METAL AROUND ROOT BALLS OF SHRUBS. 14. DO NOT WRAP TREES.

15. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING

TREE GUYING MATERIAL SHALL BE 'ARBOR-TIE' OR EQUIVALENT. 17. $\,$ ALL PLANT BEDS TO BE MULCHED WITH 4" OF DOUBLE SHREDDED HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED. 18. ALL AREAS OF PLANTING, INCLUDING AREAS OF GRASS SEEDING AND SOD, SHALL BE GRADED TO PROVIDE POSITIVE

DRAINAGE AND SHALL BE PROVIDED APPROPRIATE SOIL FOR THE PROPOSED PLANTINGS, SEE SOIL NOTES. ALL EXISTING VEGETATION WITHIN AREAS TO BE PLANTED, SODDED AND/OR SEEDED SHALL BE REMOVED PRIOR TO PLANTING, SODDING, AND SEEDING. ALL AREAS INDICATED TO BE GRASS SEED SHALL BE SEEDED PER GRASSING SPECIFICATIONS FOR PERMANENT STABILIZATION.

20. ALL DISTURBED AREAS NOT SPECIFICALLY CALLED OUT ON THIS PLAN SHALL BE SEEDED PER THE PROVIDED SEEDING SCHEDULE. ALL DISTURBED NATURAL AREAS SHALL BE MULCHED (SEE MULCH SPECIFICATIONS).

DRAINAGE TO BE PROVIDED FOR ALL ABOVE GROUND PLANTERS. PLANTINGS SHALL BE PRUNED TO CONFORM WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION,

INCLUDING BUT NOT LIMITED TO THE CITY, COUNTY, STATE AND FEDERAL REQUIREMENTS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.

REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE. REPLACEMENTS ARE NOT SUBJECT TO AN ADDITIONAL GUARANTEE, BUT THE LANDSCAPE CONTRACTOR SHALL CONSULT WITH THE LANDSCAPE ARCHITECT ON REASON FOR PLANT DECLINE/DEATH AND HOW TO AVOID FUTURE INSTANCES.

SHOULD THE LANDSCAPE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE LANDSCAPE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORDANCE WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.

FOR EACH UNAMENDED SOIL TYPE, FURNISH SOIL ANALYSIS AND A WRITTEN REPORT BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER; GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY; SODIUM ABSORPTION RATIO; DELETERIOUS MATERIAL; BUFFER PH LEVELS; AND MINERAL AND PLANT-NUTRIENT CONTENT OF THE SOIL

A MINIMUM OF THREE REPRESENTATIVE SAMPLES SHALL BE TAKEN FROM VARIED LOCATIONS FOR EACH SOIL TO BE USED OR AMENDED FOR PLANTING PURPOSES.

LANDSCAPE CONTRACTOR SHALL SUBMIT TO LANDSCAPE ARCHITECT THE LAB RECOMMENDATIONS FOR SOIL TREATMENTS AND SOIL AMENDMENTS TO BE INCORPORATED, INDICATE LAB RECOMMENDATIONS IN WEIGHT PER 1000 SQ. FT. OR VOLUME PER CU. YD. FOR NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND ORGANIC AND INORGANIC SOIL AMENDMENTS TO BE ADDED TO PRODUCE PLANTING SOIL SUITABLE FOR HEALTHY, VIABLE PLANTS ALL SOILS USED FOR PLANTING SHALL BE PREPARED AS NECESSARY USING ORGANIC AND INORGANIC SOIL AMENDMENTS AND FERTILIZERS IN THE QUANTITIES RECOMMENDED IN THE SOIL ANALYSIS REPORT TO PRODUCE SATISFACTORY PLANTING SOIL FOR HEALTHY, VIABLE PLANTS. PLANTING SOILS SHALL HAVE A PH LEVEL BETWEEN 6.0 AND 7.0.

IN ALL PLANTING AREAS, SPREAD PLANTING SOIL TO A DEPTH OF 8 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT.

LANDSCAPE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PROPOSED IRRIGATION SYSTEM TO LANDSCAPE ARCHITECT AND OWNER FOR ACCEPTANCE. LANDSCAPE CONTRACTOR TO SUPPLY AUTOMATIC IRRIGATION SYSTEMS, COMPLETE AND INSTALLED. SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS, RAIN SENSOR, AND CLOCK AND TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW SODDED AND IMPROVED EXISTING GRASS AREAS, TREES, SHRUBS AND PLANTING BEDS. COORDINATE IRRIGATION WITH OWNER'S REPRESENTATIVE.

LANDSCAPE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR AUTOMATIC IRRIGATION SYSTEMS. LANDSCAPE CONTRACTOR SHALL PROVIDE ELECTRIC METER. BACKFLOW PREVENTER AND SERVICE IN ACCORDANCE WITH STATE AND LOCAL CODES FOR IRRIGATION SYSTEM. LOCATION OF METERS AND CONTROL PANELS FOR IRRIGATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATE WATER METER REQUIREMENTS WITH CIVIL ENGINEER.

LANDSCAPE CONTRACTOR TO PROVIDE DRIP IRRIGATION TO ALL ABOVE GROUND PLANTERS. IRRIGATION LINE TO BE INSTALLED BENEATH ADJACENT HARDSCAPE AS NECESSARY. IRRIGATION PIPING, SPRINKLERS, AND OTHER EQUIPMENT MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS ON DRAWING

FOR GRAPHIC CLARITY. ALL VALVE BOXES AND EQUIPMENT VAULTS SHALL BE LOCATED IN MULCH BEDS. NO IRRIGATION COMPONENTS, INCLUDING BUT NOT LIMITED TO, VALVE BOXES, CONTROL BOXES, BACKFLOW PREVENTERS, AND/OR RAIN SENSORS ARE ALLOWED TO BE INSTALLED WITHIN DEPARTMENT OF TRANSPORTATION

PLANT SCHEDULE NOTES

THE TECHNICAL SPECIFICATIONS ARE MADE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE LANDSCAPE CONTRACTOR. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND ON THESE PLANS. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THIS OFFICE OF ANY DISCREPANCIES PRIOR TO BEGINNING OR CONTINUING

THERE WILL BE NO SUBSTITUTIONS, DELETIONS OR ADDITIONS WITHOUT APPROVAL OF THIS OFFICE. SIZE OF PLANT MATERIALS SHALL CONFORM WITH THE CURRENT EDITION OF 'AMERICAN STANDARD FOR NURSERY STOCK' FOR NUMBER ONE GRADE NURSERY STOCK AS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND AMERICAN NATIONAL STANDARDS INSTITUTE.

GAL = GALLON CONTAINER

MS = MULTI-STEMMED TRUNK

HC = HURRICANE CUT

OC = ON-CENTER

RF = REFOLIATED

TYP = TYPICAL

SP = SPECIMEN MATERIAL

TF = TREE FORM HABIT

THE QUANTITIES ON THE SCHEDULE ARE ONLY A GUIDE. ALL QUANTITIES SHALL BE VERIFIED BY THE LANDSCAPE CONTRACTOR ON THE PLANTING PLAN.

B&B = BALLED & BURLAPPED

BR = BARE ROOT MATERIAL ESP = ESPALIER FTG = FULL TO GROUND CAL = TRUNK CALIPER (MIN) CON = CONTAINERIZED MATERIAL FWF = FULL WELL FORMED

Landscape Notes

CT = CLEAR TRUNK

SCALE: NOT TO SCALE MULCH -4" MIN. 6" MAX. SUBGRADE -

1. SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

2. EXCAVATE TRENCH BY HAND WITH SPADE. 3. ADD EXCESS SOIL TO ADJACENT PLANT BED AFTER PULLING BACK EXISTING MULCH. RAKE SOIL AND

SMOOTH BEFORE MULCHING.

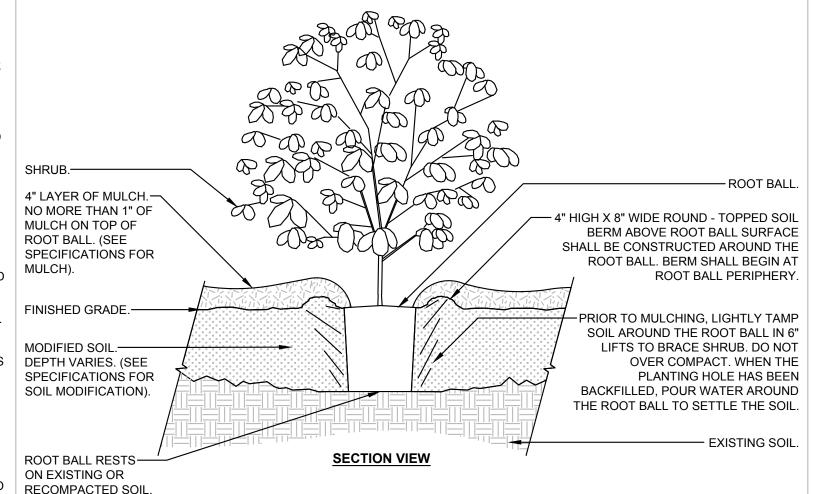
∖ Lawn Edge Detai

SINGLE CENTRAL LEADER ROOT BALL SURFACE SHALL BE POSITIONED TO BE ONE - QUARTER ABOVE FINISHED GRADE TRUNK CALIPER SHALL MEET ANSI Z60 — CURRENT EDITION FOR ROOT BALL SIZE. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER ROOT BALL MODIFIED AS REQUIRED. COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR ROUND-TOPPED SOIL BERM 4" HIGH X 8" WATER AROUND THE ROOT BALL TO WIDE ABOVE ROOT BALL SURFACE SHALL SETTLE THE SOIL. BE CONSTRUCTED AROUND THE ROOT — BALL. BERM SHALL BEGIN AT ROOT BALL 4" LAYER OF MULCH. NO MORE THAN PERIPHERY. —1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH). EXISTING SITE SOIL ADDED TO CREATE A SMOOTH TRANSITION FROM THE TOP OF — ORIGINAL GRADE THE RAISED ROOT BALL TO THE FINISHED GRADE AT A 15% MAX. SLOPE - FINISHED GRADE -EXISTING SOIL LOOSENED SOIL **BOTTOM OF ROOT BALL** DIG AND TURN THE SOIL TO **RESTS ON EXISTING OR** 3X WIDEST DIMENSION OF ROOT BALL. REDUCE COMPACTION TO THE RECOMPACTED SOIL. AREA AND DEPTH SHOWN.

1. SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL

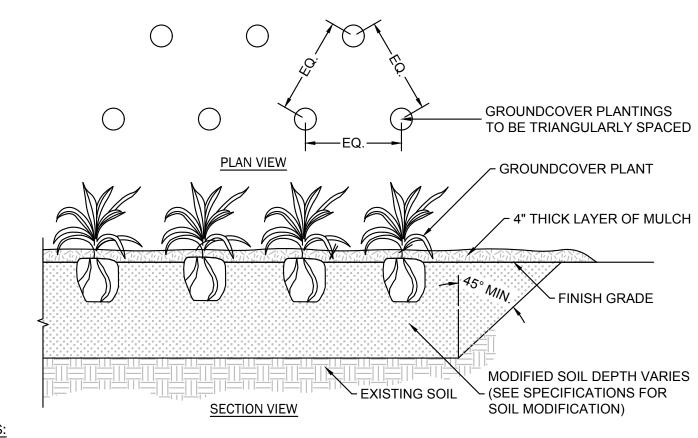
Tree in Poorly Drained Soil

SCALE: NOT TO SCALE



1. SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

4 Shrub Planting - Modified Soil SCALE: NOT TO SCALE



SEE LANDSCAPE NOTES AND SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL. 2. SEE PLANT SCHEDULE FOR PLANT SPECIES, SIZE, AND SPACING DIMENSION.

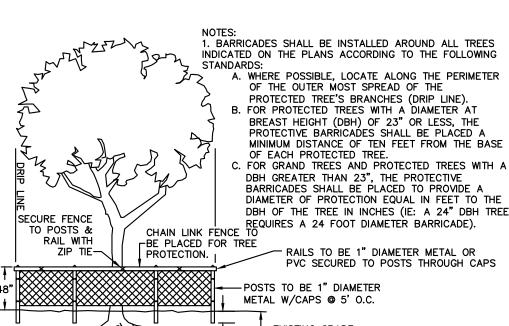
3. SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING.

4. THOROUGHLY TILL IN PLANTING SOIL MIXTURE AMENDMENTS TO DEPTH OF 8" IN ENTIRE GROUNDCOVER BED AREA. WORK SOIL TO LOOSE, UNIFORMLY FINE TEXTURE. 5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE FROM PLANTING HOLE/BEDS IF COMPACTED

SOILS OR POORLY DRAINED SOIL IS ENCOUNTERED. 6. HAND-TAMP BACKFILL TO REMOVE VOIDS AND AIR POCKETS. WATER IMMEDIATELY AFTER PLANTING UNTIL NO MORE WATER IS ABSORBED.

Groundcover / Ornamental Grass Planting Detail

SCALE: NOT TO SCALE





PLANT SCHEDULE

ACRO

ILEO

QUEP

CERO

CHIV

MAGS

ABES

AZAF

ILCB

LCRR

PODM

MUHL

PANV

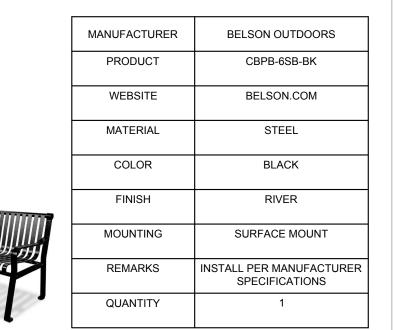
∜LMBB

SOD2

29,634 SF

NDERSTORY TREES

ROOT ZONE TO BE PROTECTED ___ __ __ __ __ __ __ __ ___ ___ MIN.



2.5" CAL

2.5" CAL

1.5" CAL

1.5" CAL

1.5" CAL

3 GAL

4" POT

SOD

2.5" CAL 6`-8`

8, WIN

8' MIN

8` MIN

8` MIN

8' MIN

18"-24"

18"-24"

18"-24"

18"-24"

18"-24"

18"-24"

18"-24"

8"-12"

N/A

18"-24"

18"-24"

18"-24"

18"-24"

18"-24"

18"-24"

18"-24"

8"-12"



ACER RUBRUM `OCTOBER GLORY` TM / OCTOBER GLORY MAPLE

CERCIS CANADENSIS 'OKLAHOMA' / OKLAHOMA REDBUD

CHIONANTHUS VIRGINICUS / WHITE FRINGETREE

MAGNOLIA X SOULANGIANA / SAUCER MAGNOLIA

AZALEA INDICA `FORMOSA` / FORMOSA AZALEA

PODOCARPUS MACROPHYLLUS / SOUTHERN YEW

LIRIOPE MUSCARI `BIG BLUE` / BIG BLUE LILYTURF

CYNODON DACTYLON 'TIFTUF' / TIFTUF BERMUDA GRASS

MUHLENBERGIA FILIPES / SWEETGRASS

ABELIA X GRANDIFLORA `SHERWOODII` / DWARF ABELIA

ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY

LOROPETALUM CHINENSE RUBRUM 'RUBY' / DWARF RUBY FRINGE

PANICUM VIRGATUM `HEAVY METAL` / HEAVY METAL SWITCH GRASS

ILEX OPACA / AMERICAN HOLLY

QUERCUS PALUSTRIS / PIN OAK



75	WEBSITE	BELSON.COM
	MATERIAL	PLASTIC
	COLOR	CHARCOAL
	FINISH	N/A
1	MOUNTING	N/A
-	REMARKS	ONE RECEPTACLE WILL HAVE RECYCLING DECAL AND THE OTHER WILL HAVE TRASH DECAL
200	QUANTITY	2

BELSON OUTDOORS

TF1953

MANUFACTURER

PRODUCT

Trash And Recycling Receptacles

SCALE: NOT TO SCALE

FWF. SP

FWF, SP

FWF, SP

FWF, SP

FWF, SP

MS, FWF,

FWF, SP

AS SHOWN

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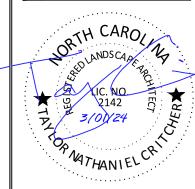
SPARTANBURG, SC

864.272.1272

CHARLOTTE, NC

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WWW.SEAMONWHITESIDE.COM



SW+ PROJECT: 3/01/24 DRAWN BY:

CHECKED BY: **REVISION HISTORY**

PLANT

SCHEDULE & DETAILS & NOTES

6 Plant Schedule
SCALE: NOT TO SCALE