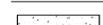
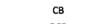
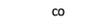
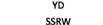
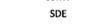
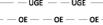
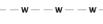
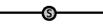
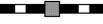
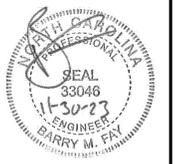
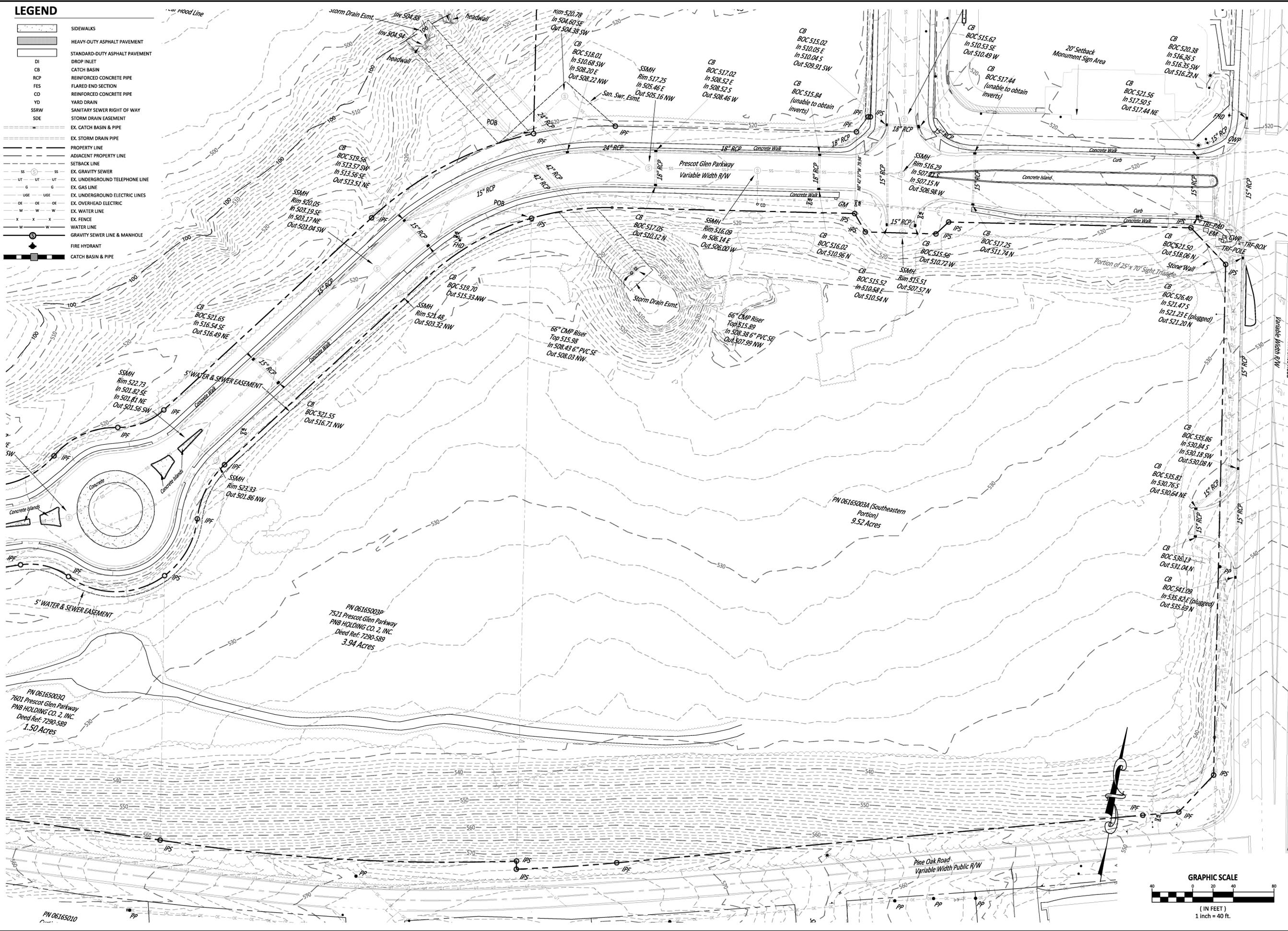


LEGEND

-  SIDEWALKS
-  HEAVY-DUTY ASPHALT PAVEMENT
-  STANDARD-DUTY ASPHALT PAVEMENT
-  DROP INLET
-  CATCH BASIN
-  REINFORCED CONCRETE PIPE
-  FLARED END SECTION
-  REINFORCED CONCRETE PIPE
-  YARD DRAIN
-  SANITARY SEWER RIGHT OF WAY
-  STORM DRAIN EASEMENT
-  EX. CATCH BASIN & PIPE
-  EX. STORM DRAIN PIPE
-  PROPERTY LINE
-  ADJACENT PROPERTY LINE
-  SETBACK LINE
-  EX. GRAVITY SEWER
-  EX. UNDERGROUND TELEPHONE LINE
-  EX. GAS LINE
-  EX. UNDERGROUND ELECTRIC LINES
-  EX. OVERHEAD ELECTRIC
-  EX. WATER LINE
-  EX. FENCE
-  WATER LINE
-  GRAVITY SEWER LINE & MANHOLE
-  FIRE HYDRANT
-  CATCH BASIN & PIPE



NO.	DATE	REVISION

North Carolina 811
 *** 3 Days Before Digging ***
 North Carolina 811
 811 or 1-800-632-4949
 Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

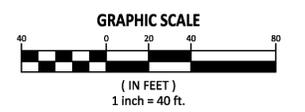
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**WIDENERS AT THE SHOPS AT PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC**

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023

EXISTING CONDITIONS & DEMOLITION PLAN

SHEET TITLE:
 SHEET NO.: **C2.0**



W:\2023\C220082 - Wideners - Prescot Village CAD\Sheets\Civil Plans\C2.0 Existing Conditions & Demolition Plan.dwg

EROSION CONTROL NOTES

1. ON-SITE SURVEY SHALL REQUIRE AN ON-SITE SEDIMENTATION LANDFILL PERMIT FROM ZONING ADMINISTRATOR.
2. ANY GRADING BEYOND THE DEDUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE TOWN'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
3. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE TOWN'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
4. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
5. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
6. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE TOWN OF WAXHAW ENGINEERING DIVISION.
7. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 1:1 HIGH REQUIRE ADEQUATE TERRACING.
8. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
9. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN WCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
10. SITE TO BE SELF-INSPECTED EVERY 7 DAYS AND AFTER 0.5" RAIN EVENT. NCEQ SELF-INSPECTION FORMS CAN BE ACCESSSED VIA

11. ALL MUD, DEBRIS, ETC. IS TO BE REMOVED FROM ROADWAY AT THE CLOSE OF OPERATION EACH DAY.
12. APPROVED PLANS, CERTIFICATE OF APPROVAL FOR EROSION CONTROL, AND LETTER OF APPROVAL FOR EROSION CONTROL TO BE KEPT ON SITE AT ALL TIMES.
13. FINANCIALLY RESPONSIBLE ENTITY WILL BE RESPONSIBLE FOR ALL EROSION CONTROL ISSUES UNTIL PROJECT HAS RECEIVED AN APPROVED EROSION CONTROL CLOSOUT INSPECTION FROM THE SEDIMENTATION AND EROSION CONTROL INSPECTOR OR UNLESS A NEW FINANCIALLY RESPONSIBLE PERSON OR ENTITY SUBMITS A COMPLETED EROSION CONTROL PLAN AND RECEIVES APPROVAL FROM THE TOWN OF WAXHAW. IF INDIVIDUAL LOTS ARE SOLD TO HOMEOWNERS, THE FINANCIALLY RESPONSIBLE ENTITY REMAINS RESPONSIBLE FOR ALL EROSION CONTROL ISSUES ON THOSE LOTS UNTIL RECEIVING A CLOSOUT INSPECTION. IF THE FINANCIALLY RESPONSIBLE ENTITY WANTS TO TRANSFER RESPONSIBILITY TO THE INDIVIDUAL LOT OWNER PRIOR TO RECEIVING PROJECT CLOSOUT, A TRANSFER OF EROSION AND SEDIMENTATION CONTROL PLAN FINANCIAL RESPONSIBILITY NOTICE MUST BE SUBMITTED TO THE TOWN. THIS NOTICE MUST BE SIGNED BY THE CURRENT FINANCIALLY RESPONSIBLE ENTITY AND THE HOMEOWNER. IF THIS FORM IS NOT SUBMITTED AND SIGNED BY BOTH PARTIES, THE ORIGINAL FINANCIALLY RESPONSIBLE ENTITY WILL REMAIN RESPONSIBLE UNTIL THE PROJECT CLOSOUT.
14. THE ENTIRE PERIMETER OF THE SITE, TREE SAVE AREAS, WETLANDS AND STREAM BUFFERS ARE TO BE MARKED WITH ORANGE CONSTRUCTION FENCING.

NCEQ WEBSITE: <https://www.nc.gov/about/divisions/energy-mineral-and-land-resources/erosion-and-sediment-control/erosion-and-sediment-control-forms>

SITE INFO

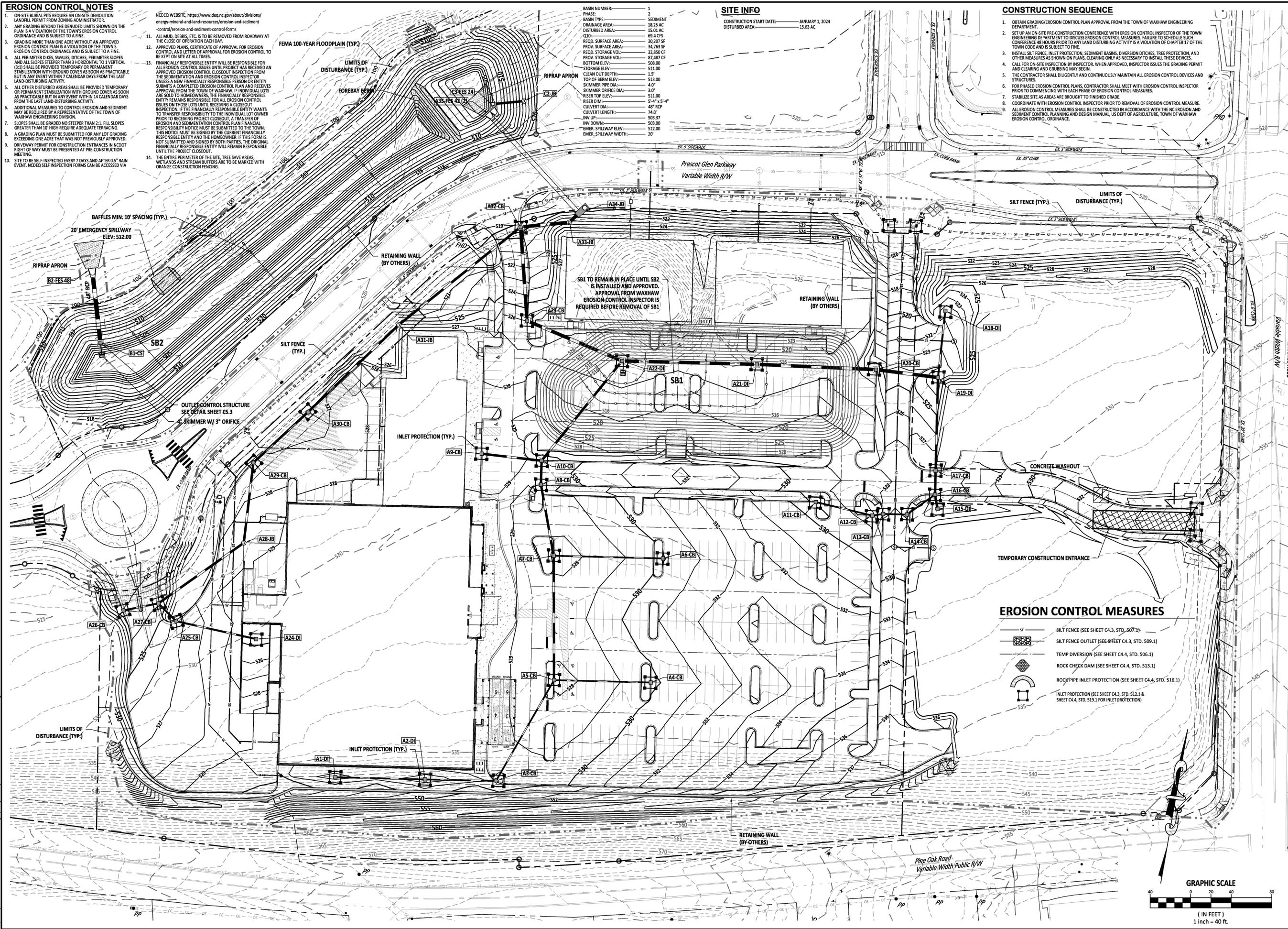
BASIN NUMBER:	1
PHASE:	2
SEDIMENT DRAINAGE AREA:	18.25 AC
DISTURBED AREA:	15.03 AC
CLD:	69.4 CFS
REQD. SURFACE AREA:	30,207 SF
PROV. SURFACE AREA:	34,765 SF
REQD. STORAGE VOL.:	32,850 CF
PROV. STORAGE VOL.:	87,487 CF
BOTTOM ELEV.:	508.00
STORAGE ELEV.:	513.00
CLEAN OUT DEPTH:	1.5'
TOP OF BERM ELEV.:	513.00
SKIMMER ORIFICE DIA.:	4.0"
SKIMMER ORIFICE DIA.:	3.0"
RISER TOP ELEV.:	513.00
RISER DIA.:	5'-4" x 5'-4"
CULVERT DIA.:	48" RCP
CULVERT LENGTH:	74.0'
INV UP:	503.37
INV DOWN:	503.00
EMER. SPILLWAY ELEV.:	512.00
EMER. SPILLWAY WIDTH:	20'

SITE INFO

CONSTRUCTION START DATE: JANUARY 1, 2024
 DISTURBED AREA: 15.03 AC

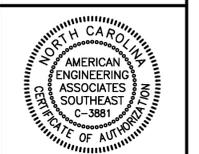
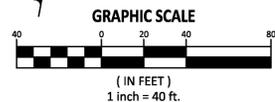
CONSTRUCTION SEQUENCE

1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE TOWN OF WAXHAW ENGINEERING DEPARTMENT.
2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE TOWN ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE TOWN CODE AND IS SUBJECT TO FINE.
3. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT BASIN, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
5. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
6. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
7. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
8. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
9. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT OF AGRICULTURE, TOWN OF WAXHAW EROSION CONTROL ORDINANCE.



EROSION CONTROL MEASURES

- SILT FENCE (SEE SHEET C4.3, STD. 507.1)
- SILT FENCE OUTLET (SEE SHEET C4.3, STD. 509.1)
- TEMP DIVERSION (SEE SHEET C4.4, STD. 506.1)
- ROCK CHECK DAM (SEE SHEET C4.4, STD. 513.1)
- ROCK PIPE INLET PROTECTION (SEE SHEET C4.4, STD. 516.1)
- INLET PROTECTION (SEE SHEET C4.3, STD. 512.1 & SHEET C4.4, STD. 519.1 FOR INLET PROTECTION)



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WIDEWATERS THE SHOPS AT PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023
 SHEET TITLE: **EROSION CONTROL PLAN - PHASE 2**
 SHEET NO.: **C4.1**

W:\2023\C220082 - Widewaters - Prescott Village CAD\Sheets\C4.1 Erosion Control Plan Phase 2.dwg

EROSION CONTROL NOTES

1. CONSTRUCTION PERMITS REQUIRE AN ON-SITE EROSION CONTROL PLAN. ANY GRADING BEYOND THE DEDUDED LIMITS SHOWN ON THIS PLAN IS A VIOLATION OF THE TOWN'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
2. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE TOWN'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
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5. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE TOWN OF WAXAHAW ENGINEERING DIVISION.
6. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 1:1 HIGH REQUIRE ADEQUATE TERRACING.
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8. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN WOODOT RIGHT-OF-WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
9. SITE TO BE SELF-INSPECTED EVERY 7 DAYS AND AFTER 0.5" RAIN EVENT. NCEQ SELF-INSPECTION FORMS CAN BE ACCESSSED VIA NCEQ WEBSITE: <https://www.deq.nc.gov/about/divisions/energy-mineral-and-land-resources/erosion-and-sediment-control/erosion-and-sediment-control-forms>
10. ALL MUD, DEBRIS, ETC. IS TO BE REMOVED FROM ROADWAY AT THE CLOSE OF OPERATION EACH DAY.
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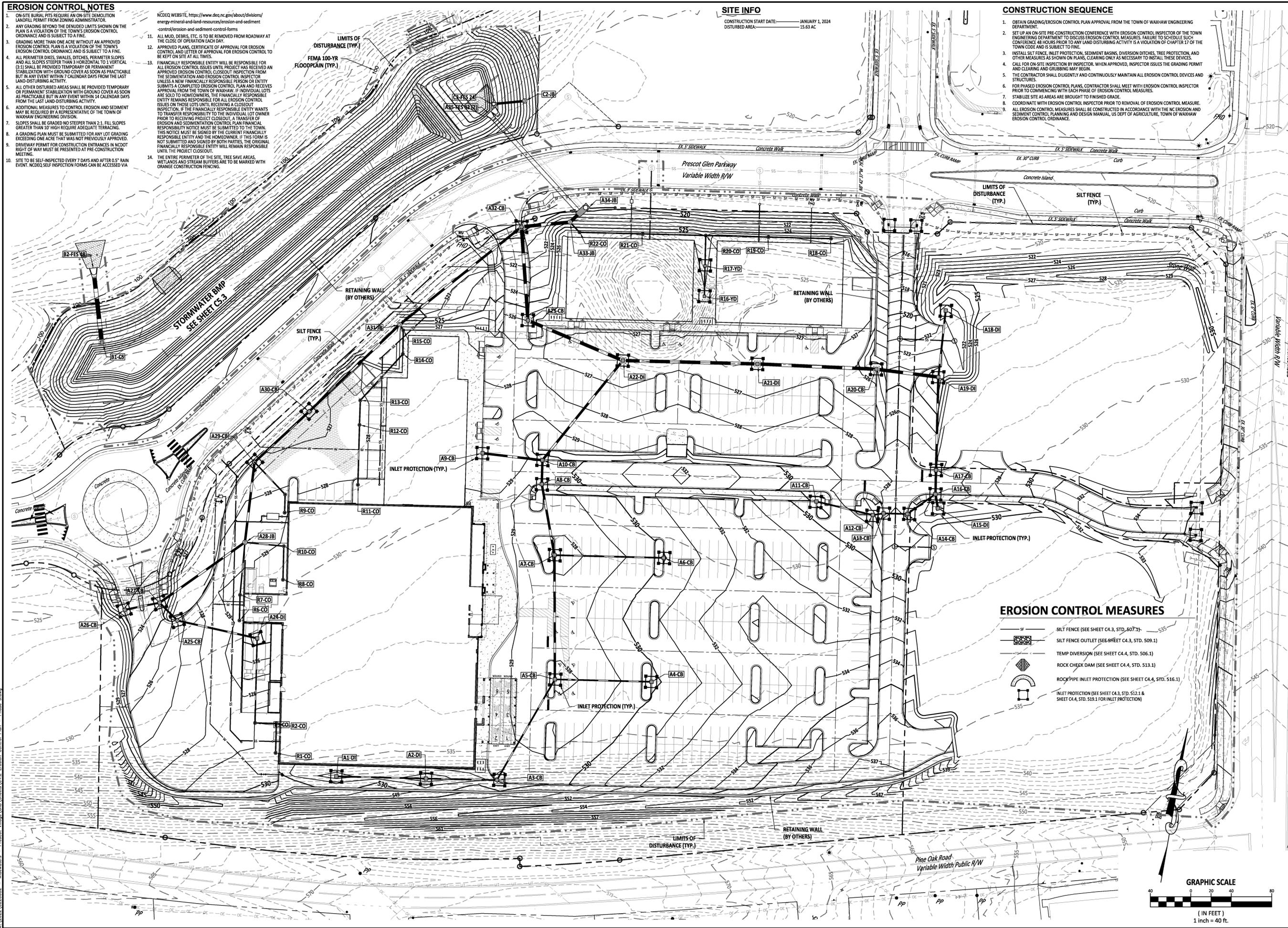
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SITE INFO

CONSTRUCTION START DATE: JANUARY 1, 2024
DISTURBED AREA: 15.63 AC

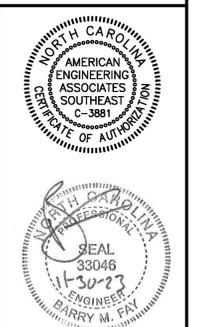
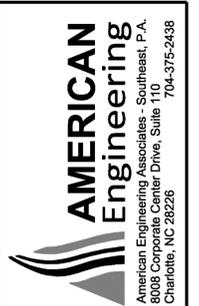
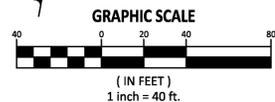
CONSTRUCTION SEQUENCE

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2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE TOWN ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE TOWN CODE AND IS SUBJECT TO FINE.
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EROSION CONTROL MEASURES

- SILT FENCE (SEE SHEET C4.3, STD. 507.1)
- SILT FENCE OUTLET (SEE SHEET C4.3, STD. 509.1)
- TEMP DIVERSION (SEE SHEET C4.4, STD. 506.1)
- ROCK CHECK DAM (SEE SHEET C4.4, STD. 513.1)
- ROCK PIPE INLET PROTECTION (SEE SHEET C4.4, STD. 516.1)
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NO.	DATE	REVISION

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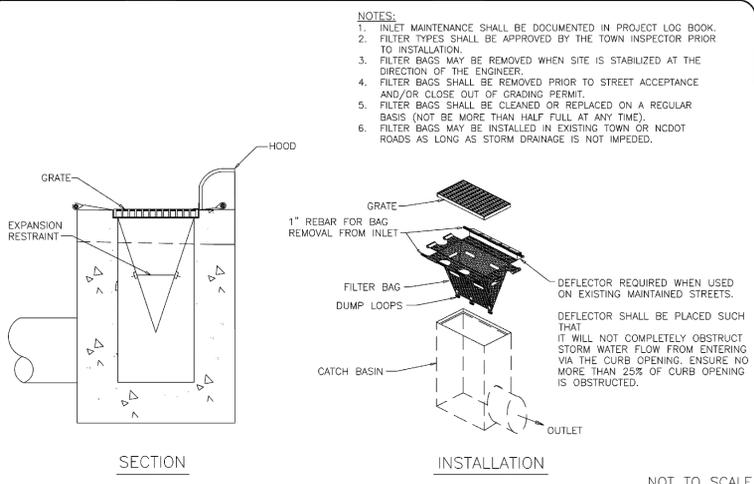
WIDEWATERS THE SHOPS AT THE SHOPS AT PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXAHAW, UNION COUNTY, NC

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023
 SHEET TITLE:

EROSION CONTROL PLAN - PHASE 3

SHEET NO.: **C4.2**

W:\2023\C220082 - Widelwaters - Prescott Village CAD\Sheets\C4.2 Erosion Control Plan - Phase 3.dwg



TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS
CATCH BASIN INLET PROTECTION
519.1

FOR LATE WINTER AND EARLY SPRING:

SEEDING MIXTURE:
RYE (GRAIN) - 120 LB/ACRE
ANNUAL LESPEDEZA (KOBE) - 50 LB/ACRE
(OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXCEED BEYOND JUNE)

SEEDING DATES:
JAN. 1 - MAY 1

FOR SUMMER:

SEEDING MIXTURE:
GERMAN MILLET - 40 LB/ACRE
(A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)

SEEDING DATES:
MAY 1 - AUG. 15

FOR FALL:

SEEDING MIXTURE:
RYE (GRAIN) - 120 LB/ACRE

SEEDING DATES:
AUG. 15 - DEC. 30

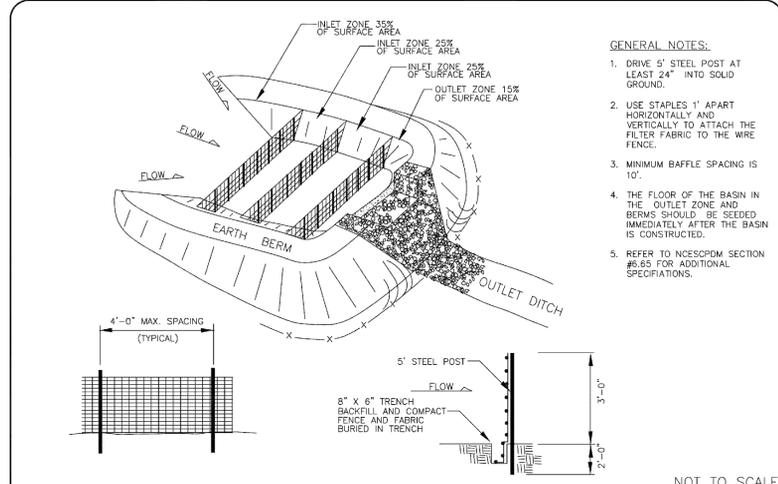
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER

MULCH:
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 TOOL.

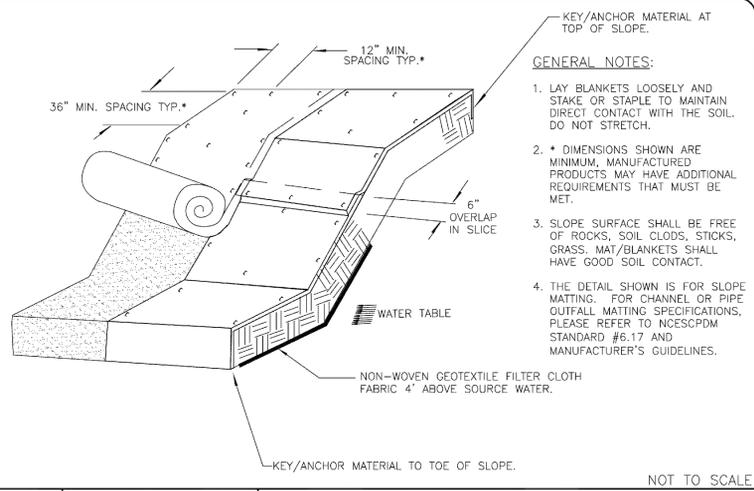
MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

FOR ADDITIONAL INFORMATION, REFER TO NCDEQ 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 NCDEQ ESCPDM SECTION 6.11.

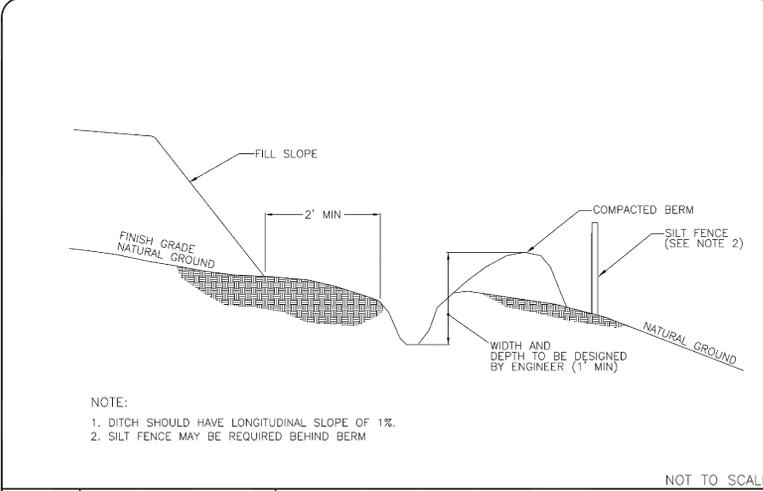
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LAND DEVELOPMENT STANDARDS
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521.1



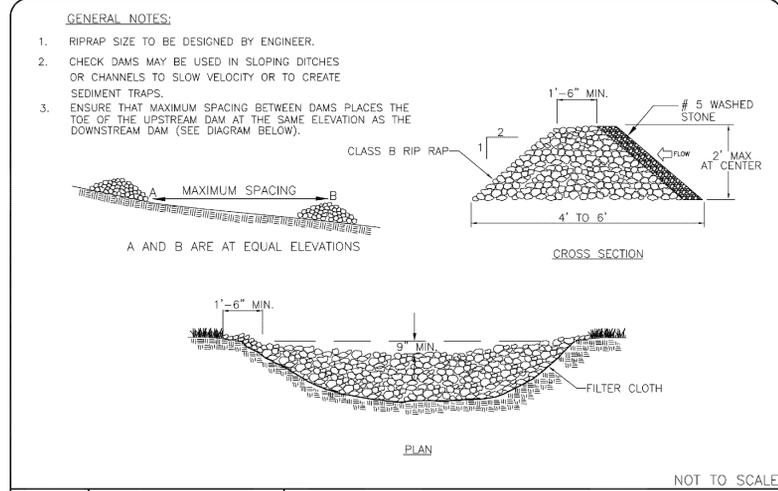
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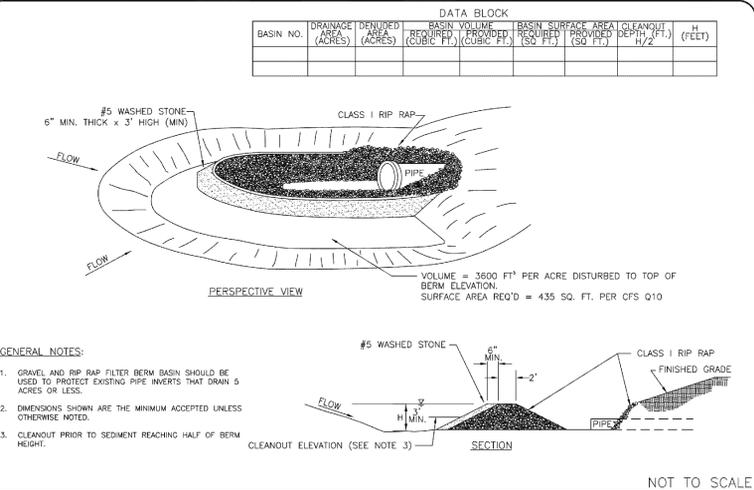
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LAND DEVELOPMENT STANDARDS
EMBANKMENT MATTING DETAIL
525.1



TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS
TEMPORARY SILT DITCH
506.1



TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS
TEMPORARY ROCK CHECK DAM
513.1



TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS
GRAVEL AND RIP RAP FILTER BERM BASIN
516.1

NO.	DATE	REVISION

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

WIDENERS AT THE SHOPS AT PRESCOT VILLAGE
PRESCOT GLEN PARKWAY
TOWN OF WAXHAW,
UNION COUNTY, NC

JOB NUMBER: C220082
DESIGN BY: BMF
DATE: 11/30/2023

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NO.: **C4.4**

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

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

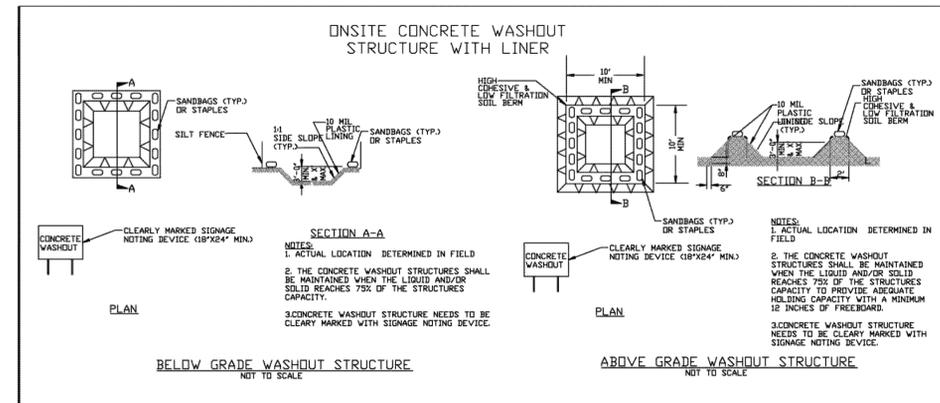
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

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

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



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 an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- 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 restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION

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

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

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

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

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

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

3. Documentation to be Retained for Three Years

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

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

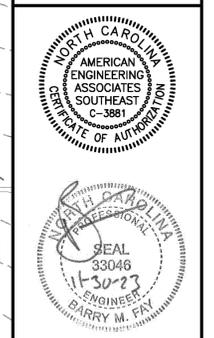
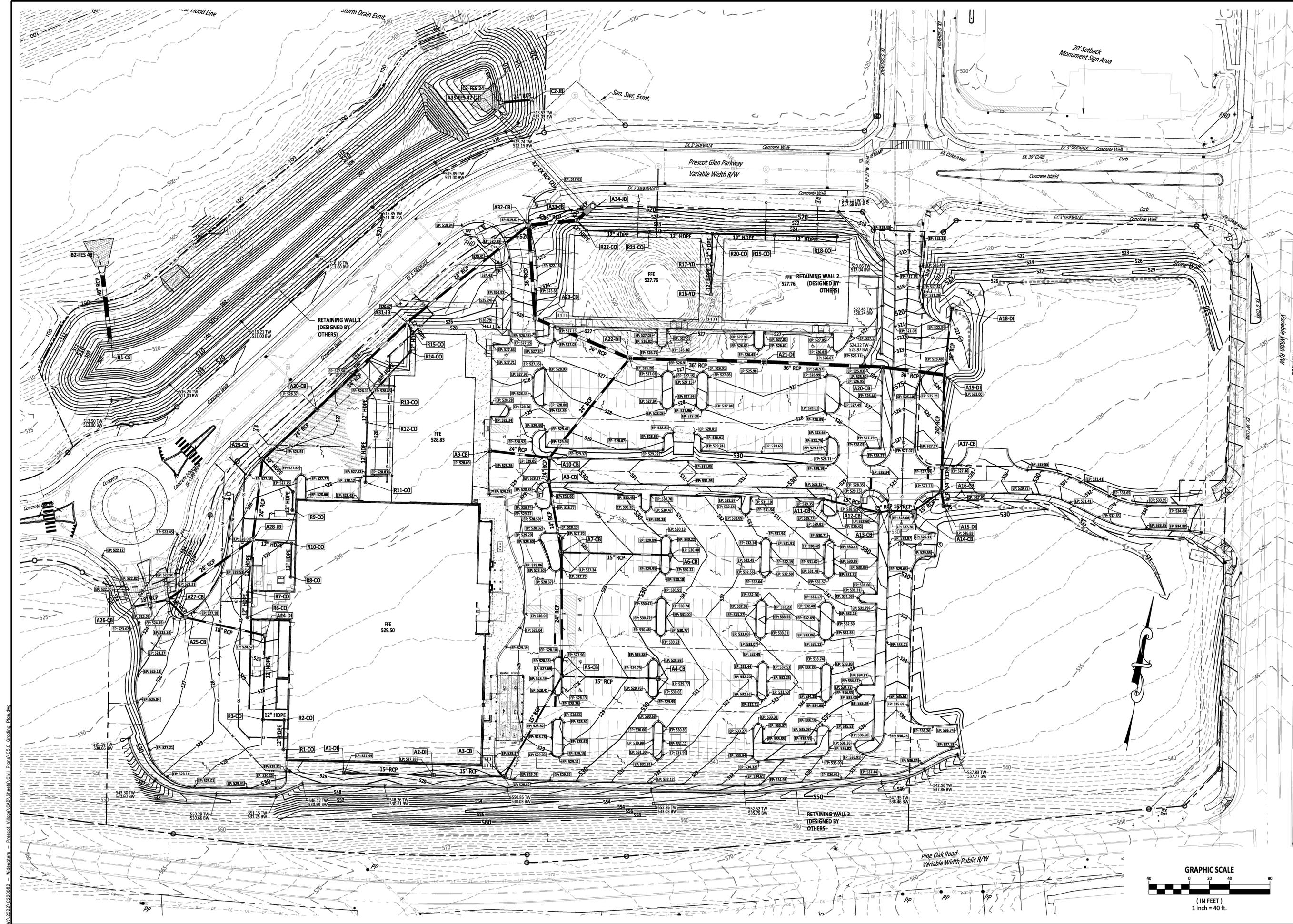
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the <u>NC 303(d) list</u> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)]. • Division staff may waive the requirement for a written report on a case-by-case basis.

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

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

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



NO.	DATE	REVISION

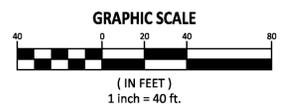
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

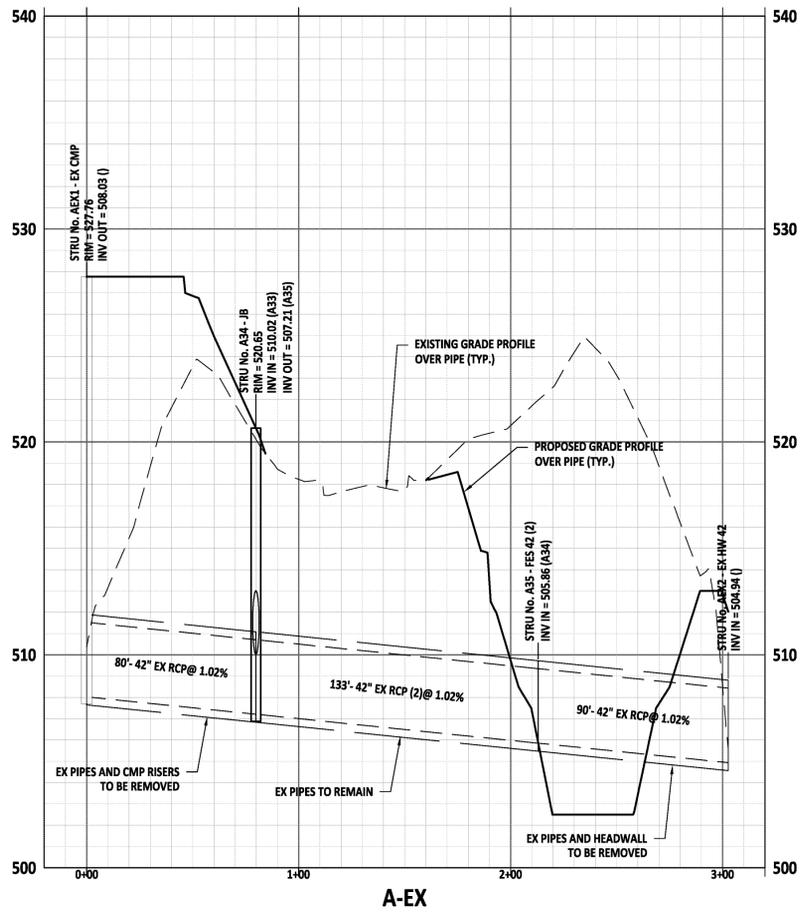
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**WIDEWATERS
AT THE SHOPS AT
PRESCOT GLEN PARKWAY
TOWN OF WAXHAW,
UNION COUNTY, NC**

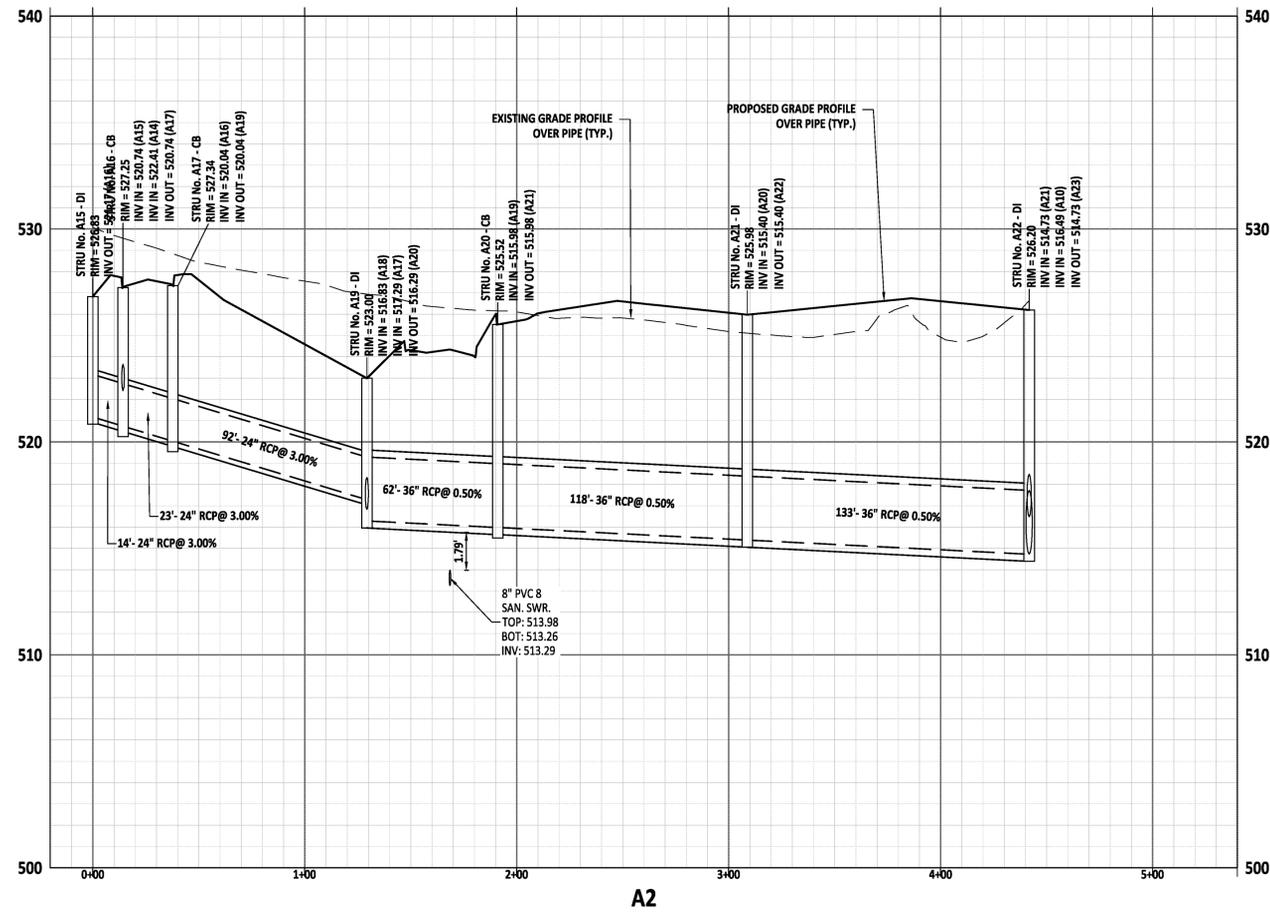
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DESIGN BY: BMF
DATE: 11/30/2023
SHEET TITLE:

GRADING PLAN
SHEET NO.: **C5.0**

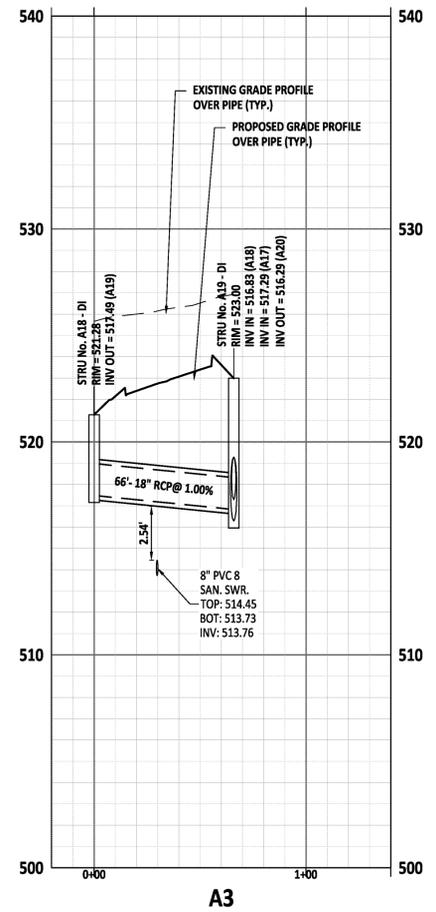




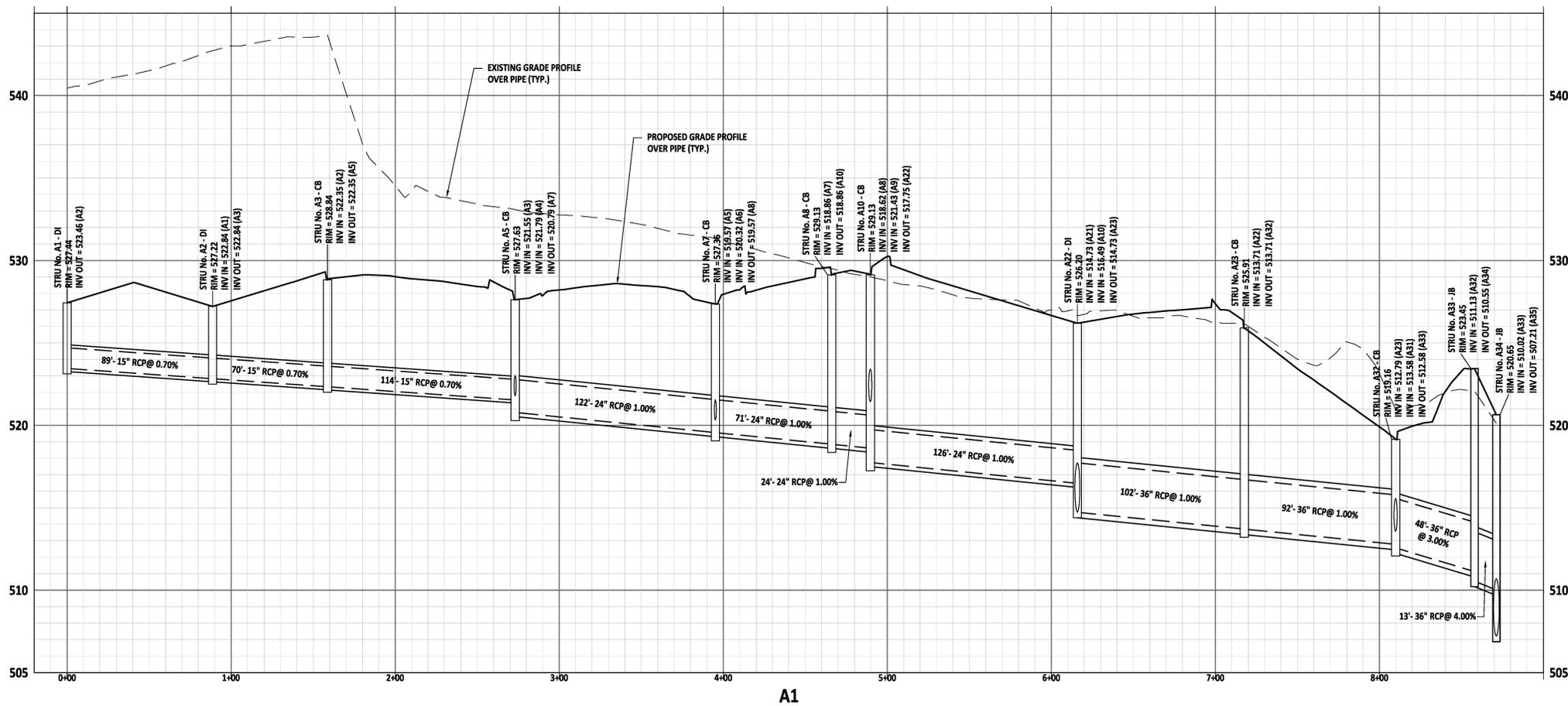
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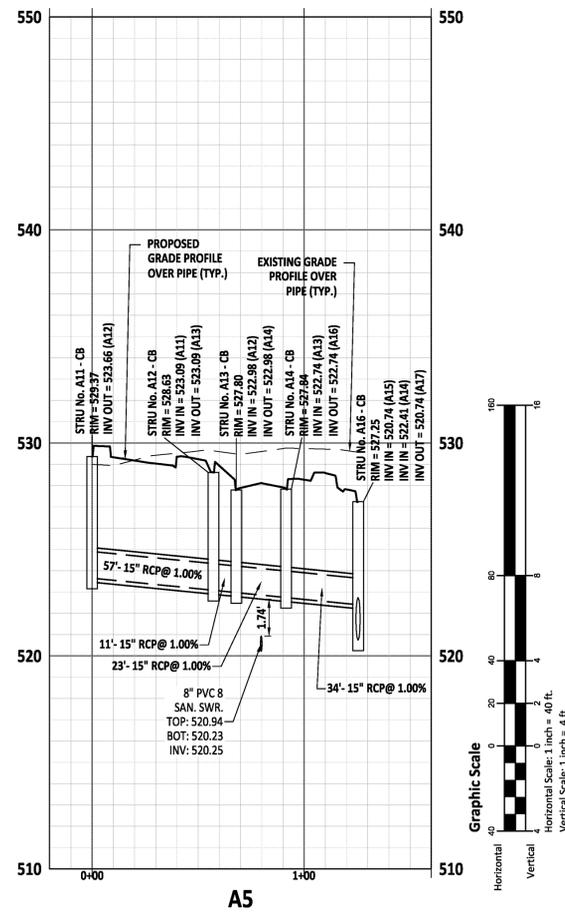
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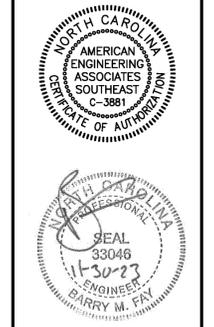


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A5

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NO.	DATE	REVISION

North Carolina 811
 *** 3 Days Before Digging ***
 North Carolina 811
 811 or 1-800-632-4949
 Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

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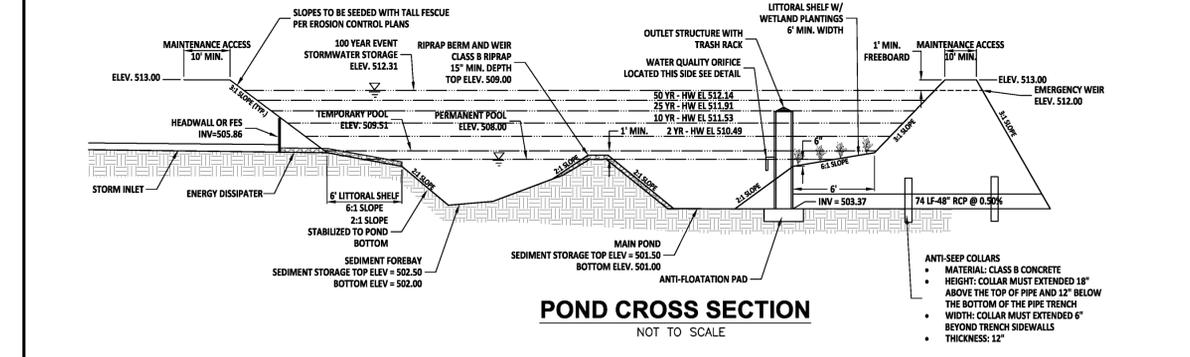
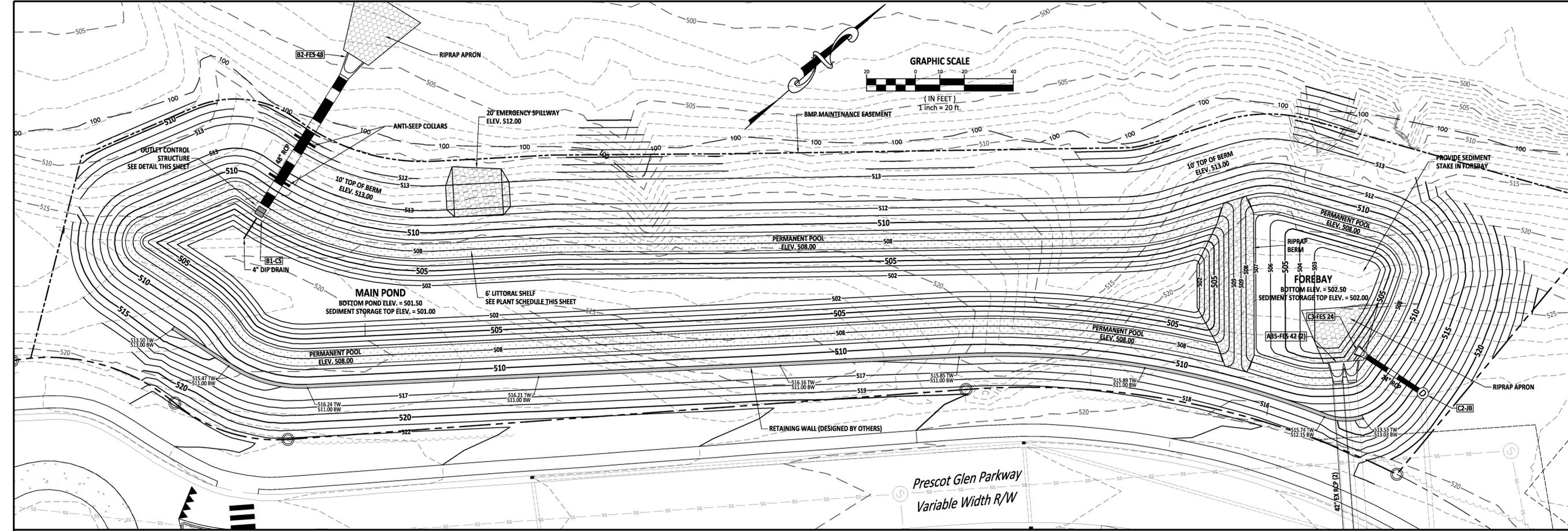
**WIDEWATERS
 THE SHOPS AT
 PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC**

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023

SHEET TITLE:
**STORM
 PROFILES**

SHEET NO.: **C5.1**

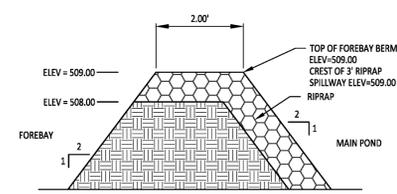




PLANT SCHEDULE | BMP - WET POND

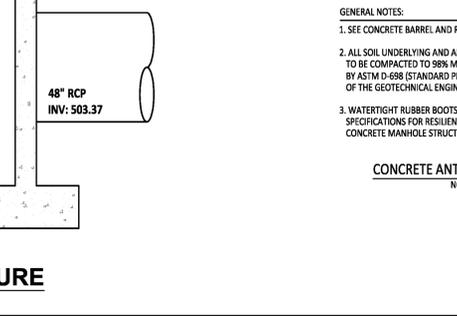
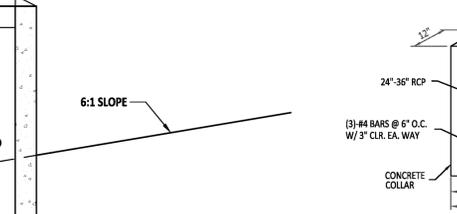
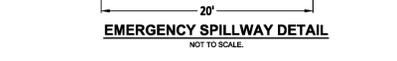
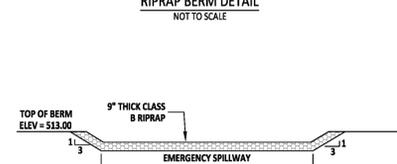
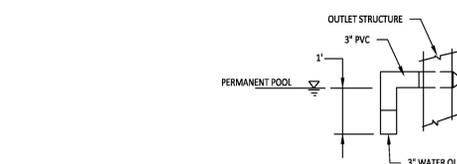
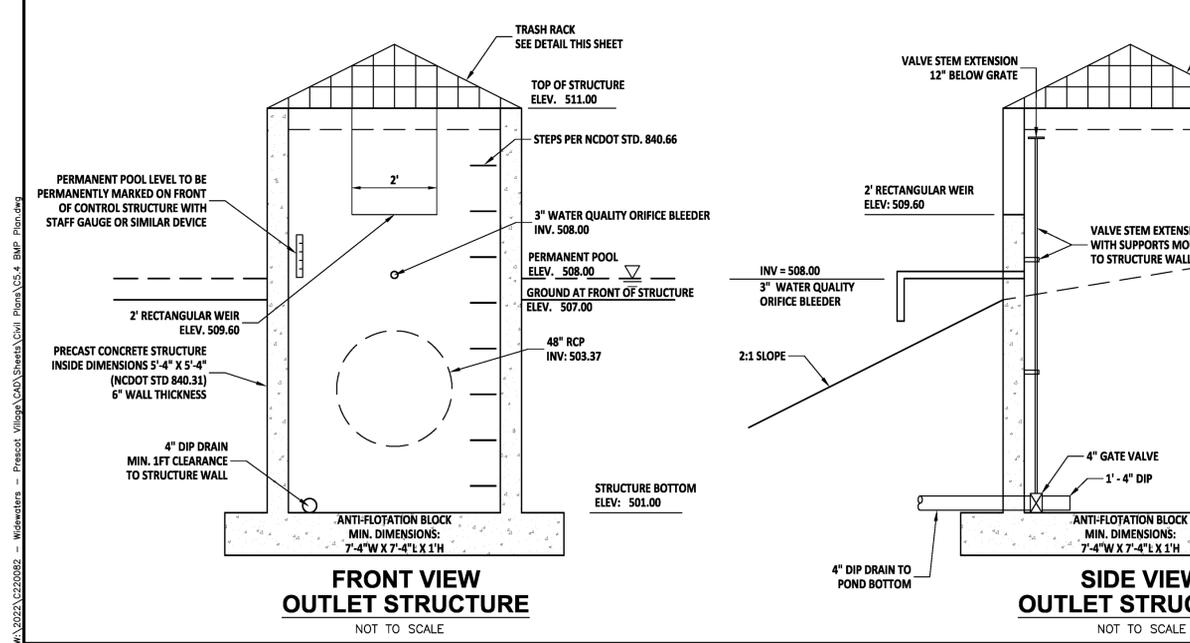
VEGETATED SHELF	6,525	SQ. FT.	HERRACEOUS PLANTS	
COMMON NAME	BOTANICAL NAME	SIZE	SPACING	QTY.
SWAMP MILKWEED	Asclepias incarnata	PLUGS	24" O.C.	544
QUILL SEDGE	Carex tenera	PLUGS	24" O.C.	544
WHITE TURTLEHEAD	Chelone glabra	PLUGS	24" O.C.	544

* EQUIVALENT PLANTS MAY BE USED AS IDENTIFIED IN NCDQS STORMWATER DESIGN MANUAL C-3 WET POND, TABLE 3: PLANTS FOR SUBMERGED AND PARTIALLY SUBMERGED VEGETATED SHELVES



OPERATION AND MAINTENANCE PROVISIONS FOR WET PONDS
(PER NCDQS STORMWATER MANUAL)

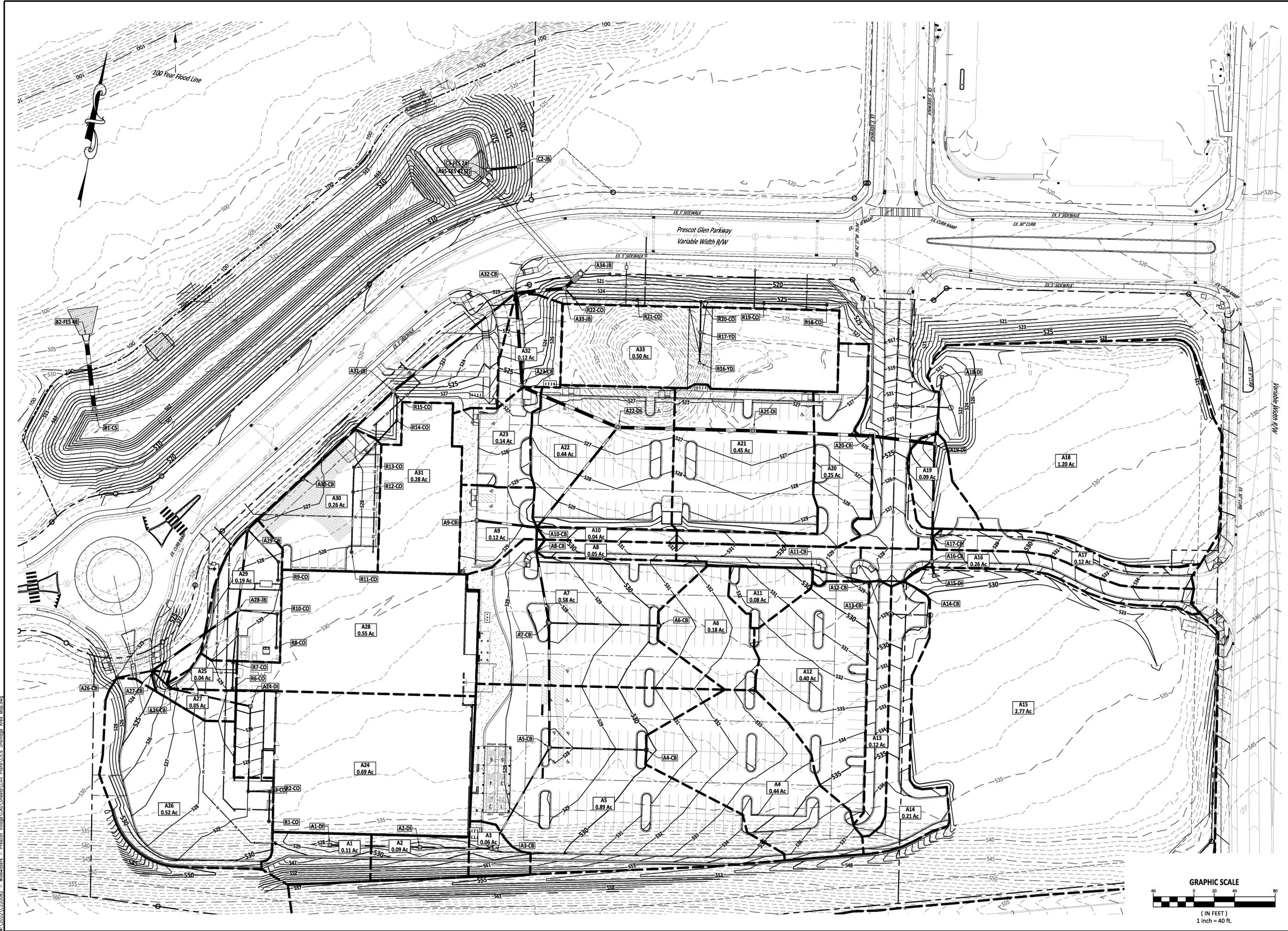
SOIL EROSION	POTENTIAL PROBLEMS	HOW TO REMEDIATE THE PROBLEM
THE ENTIRE SOIL	TRANSLOCATED PRESENT	REMOVE THE TRANSLOCATED
THE PERIMETER OF THE WET POND	AREAS OF BARE SOIL AND/OR EROSION GULLIES HAVE FORMED.	REGRADE THE SOIL IF NECESSARY TO REMOVE THE GULLY. PLANT GRASS COVER AND WATER UNTIL IT IS ESTABLISHED. PROVIDE LINE AND A ONE-TIME FERTILIZER APPLICATION.
THE INLET DEVICE	THE INLET DEVICE IS DAMAGED (IF APPLICABLE).	UNLESS THE PIPE, SUPPORTS OF THE SEDIMENT IN A LOCATION WHERE IT WILL NOT CAUSE IMPACTS TO STREAMS OR THE SCM.
THE FOREBAY	SEDIMENT HAS ACCUMULATED TO A DEPTH GREATER THAN THE ORIGINAL DESIGN DEPTH FOR SEDIMENT STORAGE.	SEARCH FOR THE SOURCE OF THE SEDIMENT AND REMEDY THE PROBLEM IF POSSIBLE. REMOVE THE SEDIMENT AND DISPOSE OF IT IN A LOCATION WHERE IT WILL NOT CAUSE IMPACTS TO STREAMS OR THE SCM.
THE VEGETATED SHELF	WEEDS ARE PRESENT.	REMOVE THE WEEDS, PREFERABLY BY HAND. IF PESTICIDE IS USED, WEED IT ON THE PLANTS RATHER THAN SPRAYING. PRUNE ACCORDING TO BEST PROFESSIONAL PRACTICES.
THE MAIN TREATMENT AREA	SEDIMENT HAS ACCUMULATED TO A DEPTH GREATER THAN THE ORIGINAL DESIGN DEPTH FOR SEDIMENT STORAGE.	SEARCH FOR THE SOURCE OF THE SEDIMENT AND REMEDY THE PROBLEM IF POSSIBLE. REMOVE THE SEDIMENT AND DISPOSE OF IT IN A LOCATION WHERE IT WILL NOT CAUSE IMPACTS TO STREAMS OR THE SCM.
THE EMBANKMENT	SHRUBS HAVE STARTED TO GROW ON THE EMBANKMENT.	REMOVE SHRUBS IMMEDIATELY.
THE OUTLET DEVICE	FLOCCING HAS OCCURRED.	CLEAN OUT THE DEVICE AND DISPOSE OF ANY SEDIMENT IN A LOCATION WHERE IT WILL NOT CAUSE IMPACTS TO STREAMS OR THE SCM.
THE RECEIVING WATER	EROSION OR OTHER SOURCE OF DAMAGE HAS OCCURRED AT THE OUTLET.	REPAIR THE DAMAGE AND IMPROVE THE FLOW DISPOSITION TO THE RECEIVING WATER.



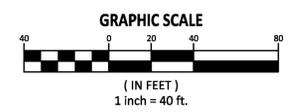
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Remote Ticket Entry
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WIDENERS AT THE SHOPS AT PRESCOT VILLAGE
PRESCOT GLEN PARKWAY
TOWN OF WAXHAW,
UNION COUNTY, NC

JOB NUMBER: C220082
DESIGN BY: BMF
DATE: 11/30/2023
SHEET TITLE: BMP PLAN
SHEET NO.: C5.4



W:\2022\C220082 - Widewaters - Prescot Village CAD\Sheets\Civil Plans\C5.6 - Drainage Area Map.dwg



NO.	DATE	REVISION

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**WIDEWATERS
THE SHOPS AT
PRESCOT VILLAGE
PRESCOT GLEN PARKWAY
TOWN OF WAXHAW,
UNION COUNTY, NC**

JOB NUMBER: C220082
DESIGN BY: BMF
DATE: 11/30/2023
SHEET TITLE:

**DRAINAGE
AREA MAP**

SHEET NO.: **C5.6**

TR55 Tc Worksheet

Hydroflow Hytographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No. 1

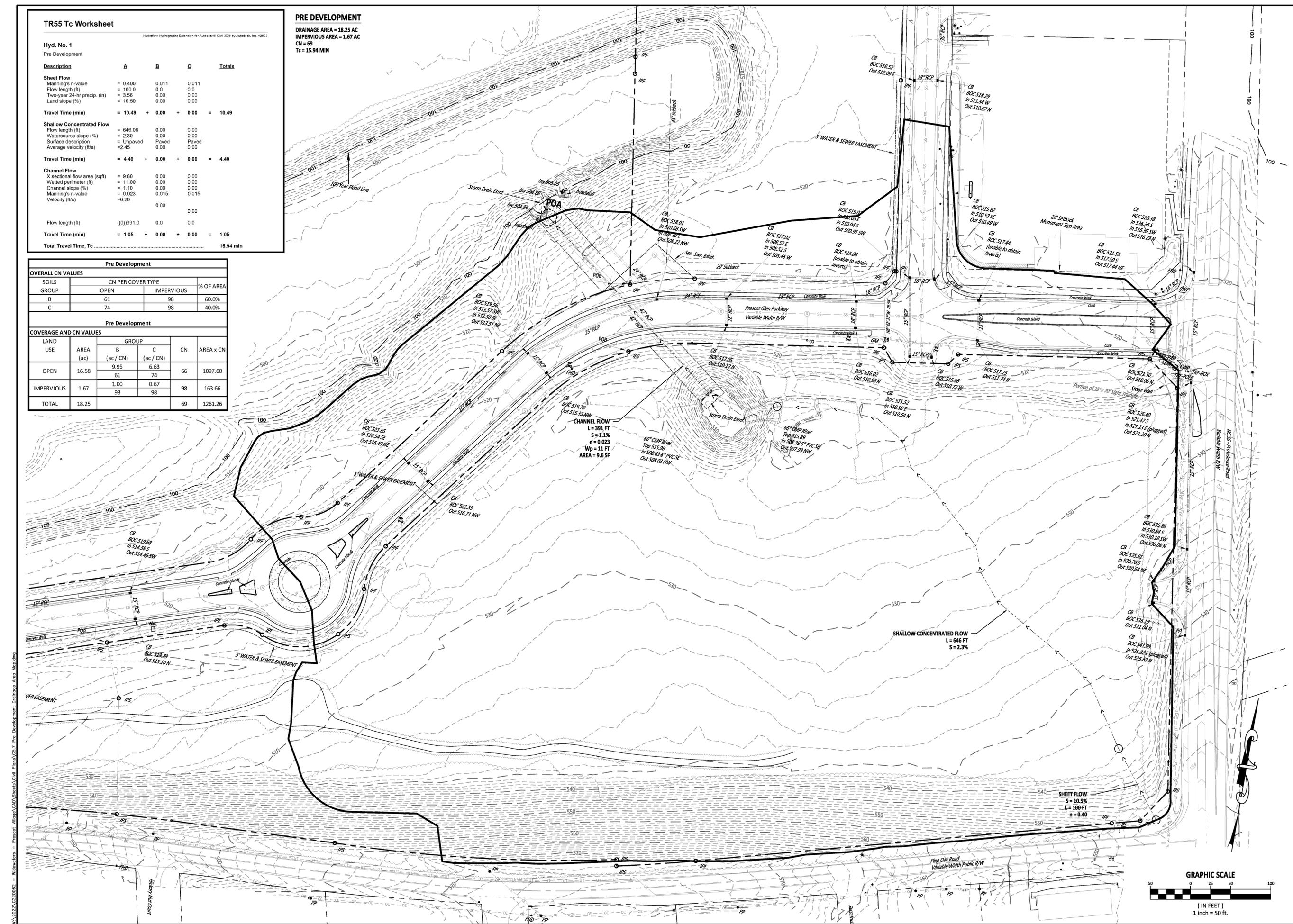
Pre Development

Description	A	B	C	Totals
Sheet Flow				
Manning's n-value	= 0.400	0.011	0.011	
Flow length (ft)	= 100.0	0.0	0.0	
Two-year 24-hr precip. (in)	= 3.56	0.00	0.00	
Land slope (%)	= 10.50	0.00	0.00	
Travel Time (min)	= 10.49	+ 0.00	+ 0.00	= 10.49
Shallow Concentrated Flow				
Flow length (ft)	= 646.00	0.00	0.00	
Watercourse slope (%)	= 2.30	0.00	0.00	
Surface description	= Unpaved	Paved	Paved	
Average velocity (ft/s)	= 2.45	0.00	0.00	
Travel Time (min)	= 4.40	+ 0.00	+ 0.00	= 4.40
Channel Flow				
X sectional flow area (sqft)	= 9.60	0.00	0.00	
Wetted perimeter (ft)	= 11.00	0.00	0.00	
Channel slope (%)	= 1.10	0.00	0.00	
Manning's n-value	= 0.023	0.015	0.015	
Velocity (ft/s)	= 6.20	0.00	0.00	
Flow length (ft)	((0))391.0	0.0	0.0	
Travel Time (min)	= 1.05	+ 0.00	+ 0.00	= 1.05
Total Travel Time, Tc				15.94 min

PRE DEVELOPMENT

DRAINAGE AREA = 18.25 AC
 IMPERVIOUS AREA = 1.67 AC
 CN = 69
 Tc = 15.94 MIN

Pre Development					
OVERALL CN VALUES					
SOILS GROUP	CN PER COVER TYPE		% OF AREA		
	OPEN	IMPERVIOUS			
B	61	98	60.0%		
C	74	98	40.0%		
Pre Development					
COVERAGE AND CN VALUES					
LAND USE	AREA (ac)	GROUP		CN	AREA x CN
		B (ac / CN)	C (ac / CN)		
OPEN	16.58	9.95	6.63	66	1097.60
IMPERVIOUS	1.67	1.00	0.67	98	163.66
TOTAL	18.25			69	1261.26



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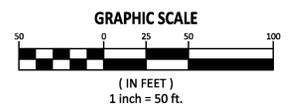
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WIDENERS AT THE SHOPS AT PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023

SHEET TITLE:
PRE DEVELOPMENT DRAINAGE AREA MAP

SHEET NO.: **C5.7**

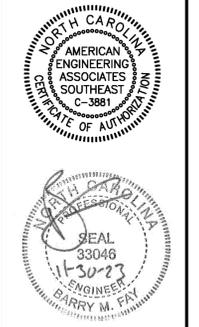
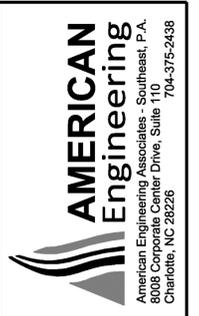
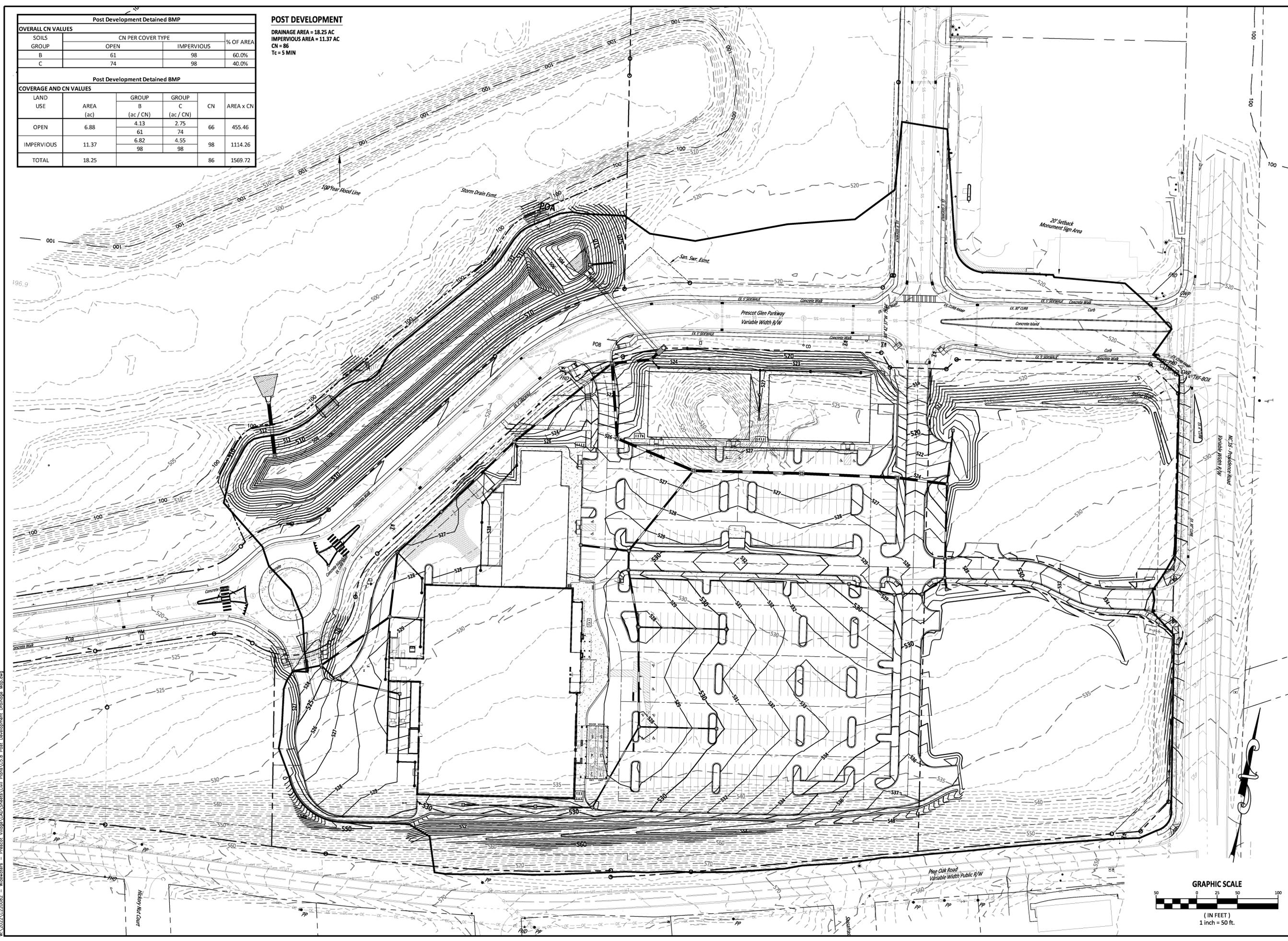


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Post Development Detained BMP				
OVERALL CN VALUES				
SOILS GROUP	CN PER COVER TYPE		IMPERVIOUS	% OF AREA
	OPEN			
B	61		98	60.0%
C	74		98	40.0%

Post Development Detained BMP					
COVERAGE AND CN VALUES					
LAND USE	AREA (ac)	GROUP B	GROUP C	CN	AREA x CN
		(ac / CN)	(ac / CN)		
OPEN	6.88	4.13	2.75	66	455.46
		61	74		
IMPERVIOUS	11.37	6.82	4.55	98	1114.26
		98	98		
TOTAL	18.25			86	1569.72

POST DEVELOPMENT
 DRAINAGE AREA = 18.25 AC
 IMPERVIOUS AREA = 11.37 AC
 CN = 86
 Tc = 5 MIN



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WIDENERS AT THE SHOPS AT PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023

SHEET TITLE:
POST DEVELOPMENT DRAINAGE AREA MAP

SHEET NO.: **C5.8**

W:\2023\C220082 - Wideners - Prescott Village CAD\Sheets\Civil Plans\C5.8 Post Development Drainage Map.dwg

LEGEND

- SIDEWALKS
HEAVY-DUTY ASPHALT PAVEMENT
STANDARD-DUTY ASPHALT PAVEMENT
DROP INLET
CATCH BASIN
REINFORCED CONCRETE PIPE
FLARED END SECTION
REINFORCED CONCRETE PIPE
YARD DRAIN
SANITARY SEWER RIGHT OF WAY
STORM DRAIN EASEMENT
EX. CATCH BASIN & PIPE
EX. STORM DRAIN PIPE
PROPERTY LINE
ADJACENT PROPERTY LINE
SETBACK LINE
EX. GRAVITY SEWER
EX. UNDERGROUND TELEPHONE LINE
EX. GAS LINE
EX. UNDERGROUND ELECTRIC LINES
EX. OVERHEAD ELECTRIC
EX. WATER LINE
GRAVITY SEWER LINE & MANHOLE
FIRE HYDRANT
CATCH BASIN & PIPE

UNION COUNTY PUBLIC WORKS GENERAL PLAN NOTES:

- REFER TO UNION COUNTY SPECIFICATIONS, UNION COUNTY WATER & SEWER EXTENSION POLICY AND UNION COUNTY WATER & SEWER EXTENSION ORDINANCE
WATER AND SEWER TAPS, MATERIALS AND INSTALLATION TO BE BY THE DEVELOPER.
ENGINEER TO CERTIFY THAT DESIGN HAS BEEN VERIFIED BY GROUND SURVEY
A UNION COUNTY WATER'S UTILITY RIGHT-OF-WAY SHALL EXIST ON ALL SANITARY SEWER LATERALS, WATER METERS, AND FIRE HYDRANTS. THE UTILITY RIGHT-OF-WAY IS LOCATED 5 FEET ALL SIDES FROM THE CLEANOUT, WATER METER, OR FIRE HYDRANT TO THE PUBLIC OR PRIVATE ROAD RIGHT-OF-WAY.
THE PROPERTY OWNER SHALL NOT CONSTRUCT OR PERMIT CONSTRUCTION OR PLACEMENT OF ANY TYPE STRUCTURE, PLANT TREES, OR MAKE USE OF THE EASEMENT AREA IN ANY MANNER THAT WILL RESULT IN INTERFERENCE, INTERRUPTION, OR IMPEDIMENT OF UNION COUNTY WATER EASEMENT AND INGRESS/EGRESS.
ANY CHANGES MADE TO THE PLANS FOR OTHER DISCIPLINES (STORM WATER, EROSION, TREES, LANDSCAPING, ETC) MUST BE SHOWN AND IDENTIFIED BY REVISION NUMBER AND CLOUDING. FAILURE TO DO SO WILL DELAY THE APPROVAL OF THIS PROJECT.
DESIGN ENGINEER SHALL CONFIRM THAT WATER AND SEWER MAINS AS WELL AS SERVICE LINES, METER BOXES, FIRE HYDRANTS AND LATERALS WILL NOT BE IN CONFLICT WITH ANY PROPOSED UTILITY INSTALLATION, LANDSCAPING AND/OR DRIVEWAYS. ANY CONFLICTS SHALL BE AT THE DEVELOPER'S EXPENSE TO COORDINATE AND RESOLVE AND COULD RESULT IN DELAY OF WATER METERS BEING SET.
ONLY UCV PERSONNEL WILL OPERATE THE ACTIVE VALVES WHICH INCLUDED THE TAPPING VALVE.

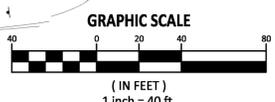
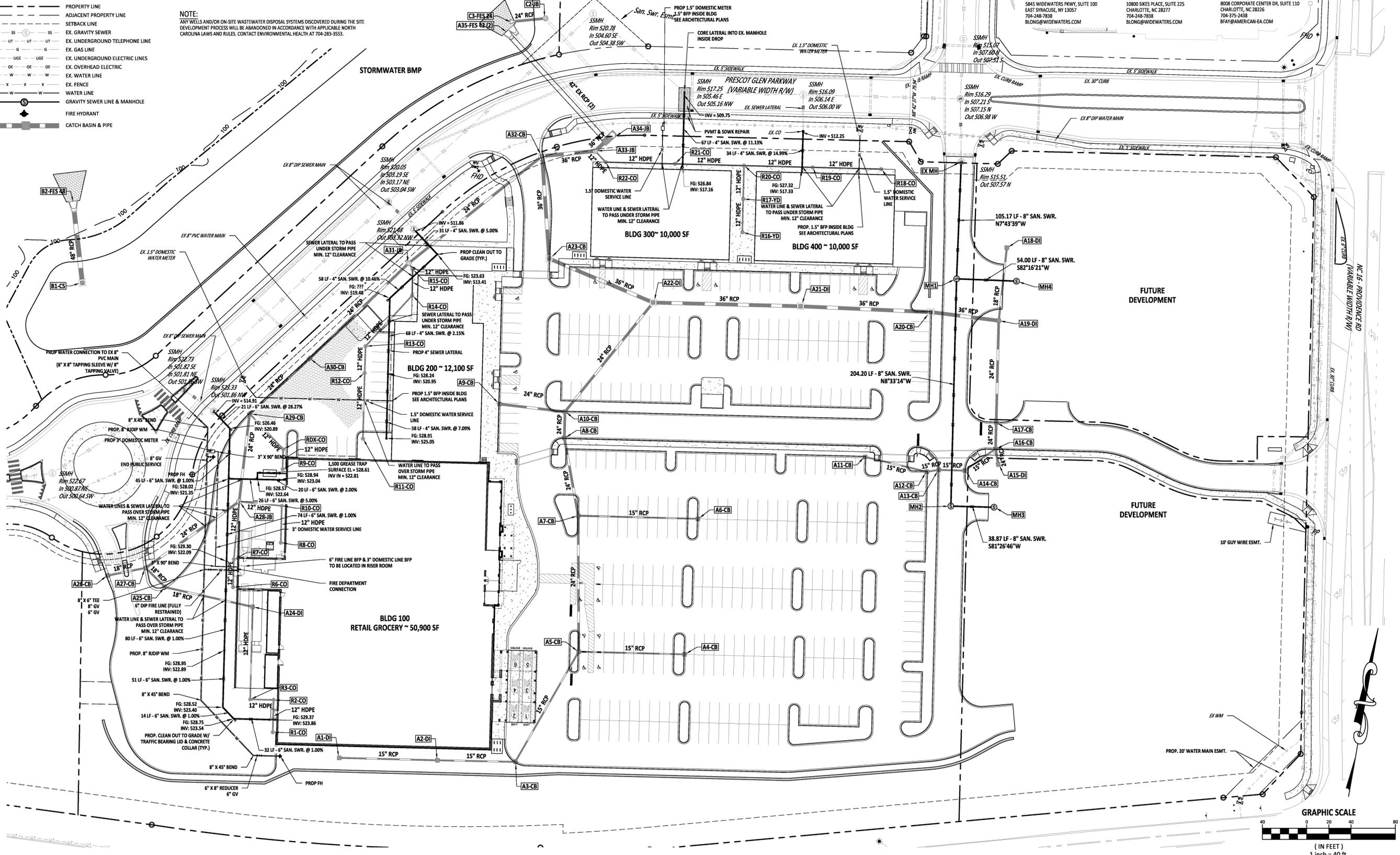
NOTE: ANY WELLS AND/OR ON-SITE WASTEWATER DISPOSAL SYSTEMS DISCOVERED DURING THE SITE DEVELOPMENT PROCESS WILL BE ABANDONED IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA LAWS AND RULES. CONTACT ENVIRONMENTAL HEALTH AT 704-283-3553.

- FIRE HYDRANT PLACEMENT (FIRE HYDRANTS SHALL BE PLACED A MINIMUM DISTANCE OF 6 FEET BACK OF CURB AND GUTTER SECTIONS AND BACK OF DITCH IN ROADWAY SECTIONS) & HAVE A CLEAR SPACE OF 5 FEET FROM ANY PERMANENT STRUCTURES.
METERS WILL NOT BE SET IF WATER METER BOXES, SEWER CLEAN-OUTS, VALVE BOXES OR THEIR APPURTENANCES ARE DAMAGED OR IMPROPERLY POSITIONED.
2" GATE VALVES SHALL BE AWWA C515 COMPLIANT
2" GATE VALVES SHALL BE NSF 61 COMPLIANT
3" OR LARGER GATE VALVES SHALL BE AWWA C500 AND C509 COMPLIANT
AIR RELEASE VALVES SHALL BE AWWA C512 COMPLIANT
VERIFICATION HAS BEEN MADE BY AMERICAN ENGINEERING THAT EACH LOT IS CAPABLE OF HAVING GRAVITY SEWER SERVICE TO THE CENTER OF THE LOT AT THE FRONT SETBACK.
ALL PROPOSED SEWER CONNECTIONS TO THE EXISTING SEWER SYSTEM BY STRADDLE MANHOLE SHALL NOT CUT INTO THE EXISTING SEWER PIPE UNTIL THE PROPOSED SEWER LINE HAS BEEN ACCEPTED BY UCV. ALSO, ALL CORE CONNECTIONS TO EXISTING MANHOLES MUST BE PLUGGED WITH A CONCRETE PLUG IN THE INVERT OUT AT THE 1ST PROPOSED MH UPSTREAM OF THE TIE IN POINT. THE SEWER PLUG SHALL NOT BE REMOVED UNTIL THE PROPOSED SEWER LINE HAS BEEN ACCEPTED BY UCV. IF PLUG IS REMOVED PRIOR TO UCV OR EXISTING PIPE IS DAMAGED THE CONTRACTOR MAY BE LIABLE FOR CLEANING ALL DOWNSTREAM SEWER MAIN AT UCV DISCRETION.

- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN AMPLE MEANS AND EQUIPMENT WITH WHICH TO REMOVE AND PROPERLY DISPOSE OF ANY AND ALL WATER ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK AND KEEP ALL EXCAVATIONS DRY UNTIL SUCH TIME AS PILE LAYING AND GRADING IS COMPLETED AND STRUCTURES TO BE BUILT THEREIN ARE COMPLETED. NO WATER SHALL BE ALLOWED TO RISE AROUND THE PIPE IN UN-BACKFILLED TRENCHES NOR SHALL IT BE ALLOWED TO RISE OVER MASONRY UNTIL THE CONCRETE OR MORTAR HAS SET (MINIMUM 24 HOURS). ALL WATER PUMPED OR DRAINED FROM THE WORK SHALL BE DISPOSED OF IN SUCH A MANNER AS TO PREVENT SILTATION AND EROSION TO ADJACENT PROPERTY OR OTHER CONSTRUCTION.
IF WELL AND/OR SEPTIC SYSTEMS ARE ENCOUNTERED, THEN CONTACT DAVID FINLEY (704.283.3879) WITH ENVIRONMENTAL HEALTH FOR THEIR SEQUENCE OF EVENTS AND OTHER PERTINENT INFORMATION.
UCV IS NOT RESPONSIBLE FOR THE MAINTENANCE OF THE WALKING TRAIL AND WILL NOT BE RESPONSIBLE FOR REPAIRS OF THE WALKING TRAIL DUE TO MAINTENANCE OF THE SEWER LINE.
THE CONTRACTOR SHALL CONTACT UNION COUNTY WATER PERSONNEL AFTER MATERIALS HAVE BEEN APPROVED BY UNION COUNTY WATER AND AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION TO SCHEDULE A PRECONSTRUCTION MEETING. PLEASE REACH OUT TO LEE DILLON AT LEE.DILLON@UNIONCOUNTY.NC.GOV TO SCHEDULE THE MEETING.
ANY WORK OR TEST PERFORMED WITHOUT NOTIFICATION AND CONTACT WITH FIELD INSPECTORS SHALL BE INSTALLED AT THE CONTRACTOR'S RISK AND SUBJECT TO REMOVAL.

Table with 3 columns: DOMESTIC WATER METERS, DOMESTIC WATER CONSUMPTION, and SANITARY SEWER FLOW VOLUME. Includes estimated consumption and flow volume data for various meter sizes and retail types.

OWNER: WIDEWATERS PRESOCOT OWNERSHIP, LLC
DEVELOPER: THE WIDEWATERS GROUP
CIVIL ENGINEER: AMERICAN ENGINEERING ASSOCIATES SOUTHEAST



AMERICAN Engineering logo and contact information: American Engineering Associates - Southeast, P.A., 8008 Corporate Center Drive, Suite 110, Charlotte, NC 28226, 704-375-2438.

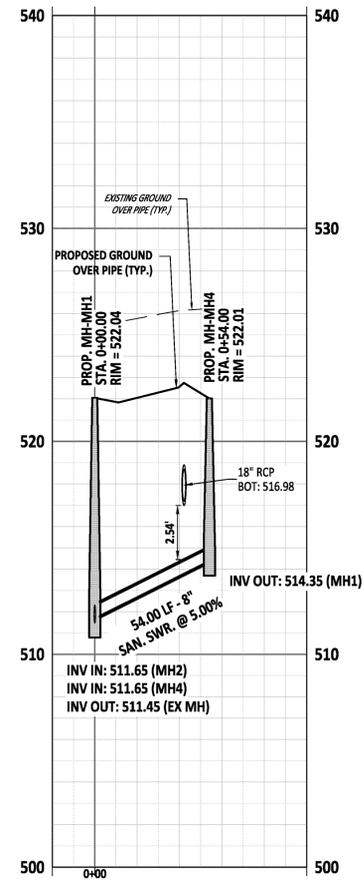
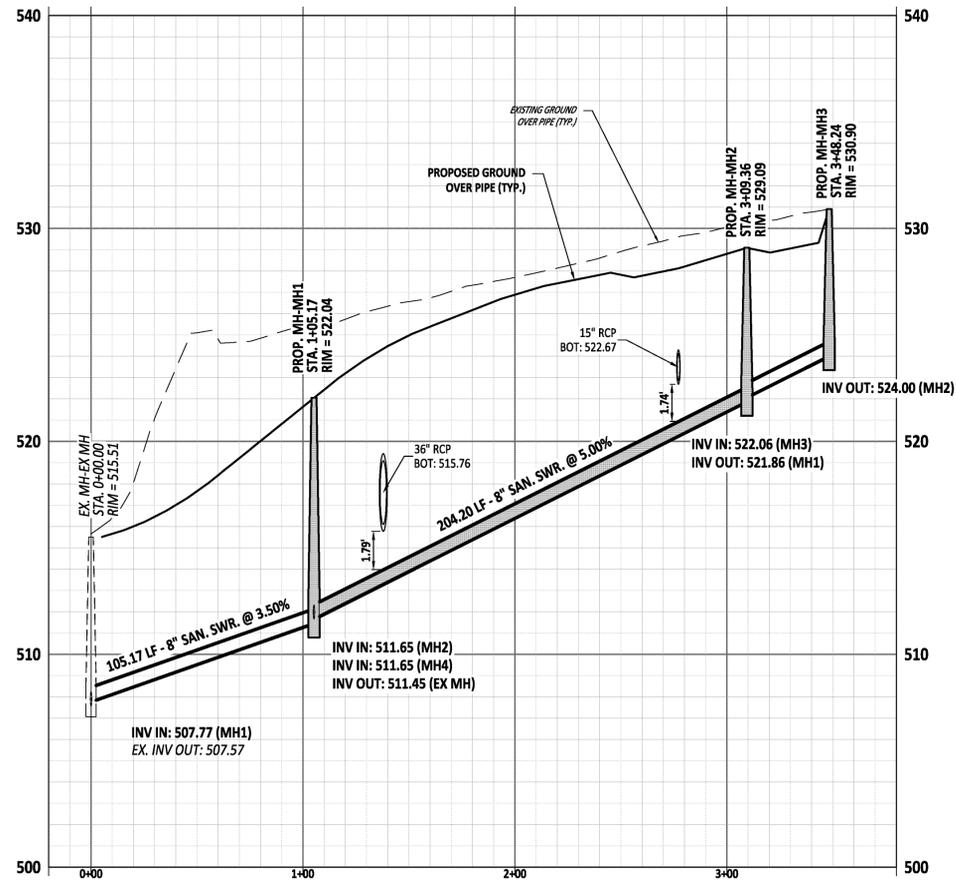
Professional Engineer Seal for Barry M. Fay, State of North Carolina, License No. 33046, dated 11-30-23.

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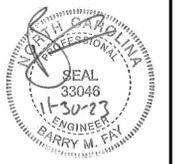
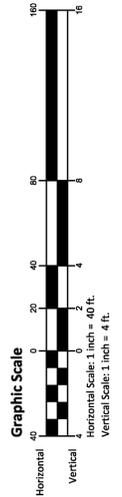
WIDEWATERS THE SHOPS AT THE SHOP VILLAGE PRESOCOT GLEN PARKWAY TOWN OF WAXHAW, UNION COUNTY, NC

JOB NUMBER: C220082
DESIGN BY: BMF
DATE: 11/30/2023
SHEET TITLE: UTILITY PLAN
SHEET NO.: C6.0



PIPE MATERIAL LEGEND

- SDR-35
- SDR-26
- DIP



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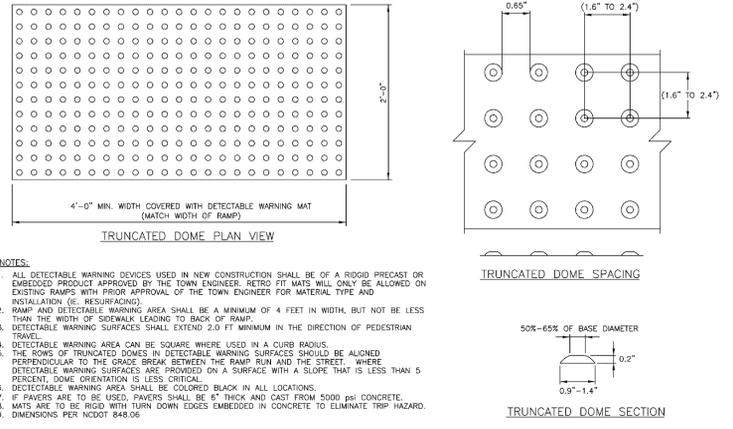
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**WIDEWATERS
 THE SHOPS AT
 PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC**

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023

SHEET TITLE:
**SANITARY
 SEWER
 PROFILES**

SHEET NO.:
C6.1

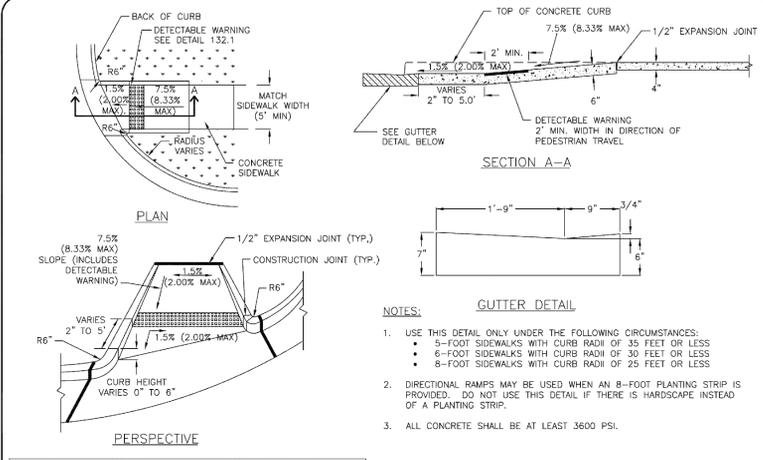


NOTES:

1. ALL DETECTABLE WARNING DEVICES USED IN NEW CONSTRUCTION SHALL BE OF A RIGID PRECAST OR EMBEDDED PRODUCT APPROVED BY THE TOWN ENGINEER. RETRO FIT MATS WILL ONLY BE ALLOWED ON EXISTING RAMPS WITH PRIOR APPROVAL OF THE TOWN ENGINEER FOR MATERIAL TYPE AND INSTALLATION (E. RESURFACING).
2. RAMP AND DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 4 FEET IN WIDTH, BUT NOT BE LESS THAN THE WIDTH OF SIDEWALK LEADING TO BACK OF RAMP.
3. DETECTABLE WARNING SURFACES SHALL EXTEND 2.0 FT MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL.
4. DETECTABLE WARNING AREA CAN BE SQUARE WHERE USED IN A CURB RADIUS.
5. THE ROWS OF TRUNCATED DOMES IN DETECTABLE WARNING SURFACES SHOULD BE ALIGNED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP RUN AND THE STREET, WHERE DETECTABLE WARNING SURFACES ARE PROVIDED ON A SURFACE WITH A SLOPE THAT IS LESS THAN 5 PERCENT. DOME ORIENTATION IS LESS CRITICAL.
6. DETECTABLE WARNING AREA SHALL BE COLORED BLACK IN ALL LOCATIONS.
7. IF PAVERS ARE TO BE USED, PAVERS SHALL BE 6" THICK AND CAST FROM 5000 PSI CONCRETE.
8. MATS ARE TO BE RIGID WITH TURN DOWN EDGES EMBEDDED IN CONCRETE TO ELIMINATE TRIP HAZARD.
9. DIMENSIONS PER NCDOT 848.06

NOT TO SCALE

TOWN OF WAXHAW LAND DEVELOPMENT STANDARDS	TRUNCATED DOMES PLAN AND CROSS-SECTION	STD. NO.	REV.
		132.1	8/19

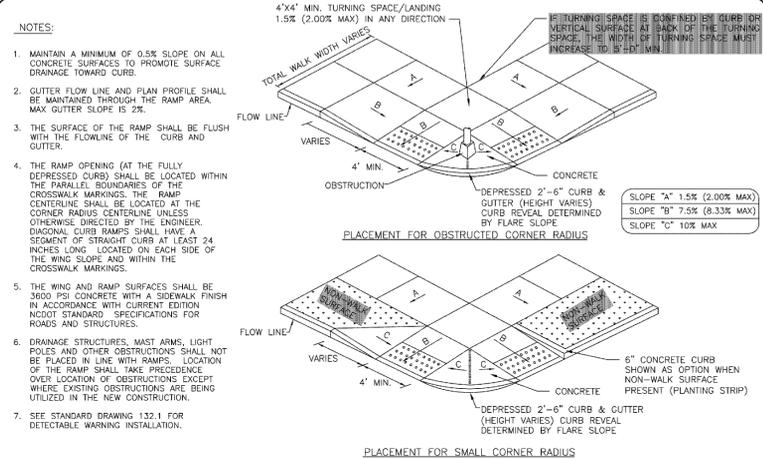


NOTES:

1. USE THIS DETAIL ONLY UNDER THE FOLLOWING CIRCUMSTANCES:
 - 5-FOOT SIDEWALKS WITH CURB RADI OF 35 FEET OR LESS
 - 6-FOOT SIDEWALKS WITH CURB RADI OF 30 FEET OR LESS
 - 8-FOOT SIDEWALKS WITH CURB RADI OF 25 FEET OR LESS
2. DIRECTIONAL RAMPS MAY BE USED WHEN AN 8-FOOT PLANTING STRIP IS PROVIDED. DO NOT USE THIS DETAIL IF THERE IS HARDSCAPE INSTEAD OF A PLANTING STRIP.
3. ALL CONCRETE SHALL BE AT LEAST 3600 PSI.

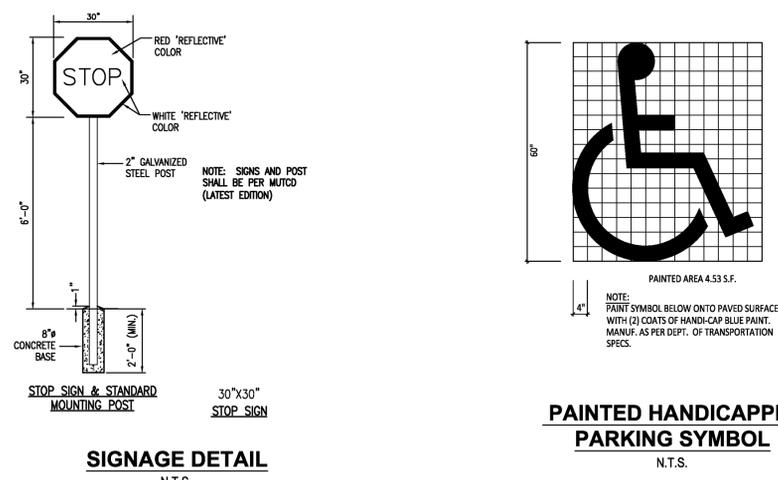
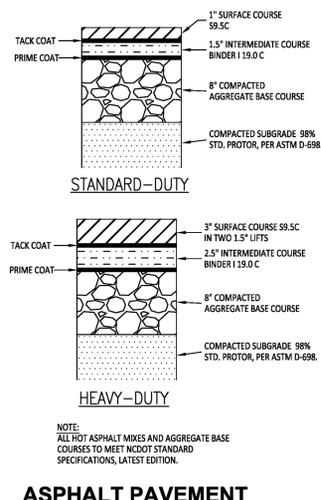
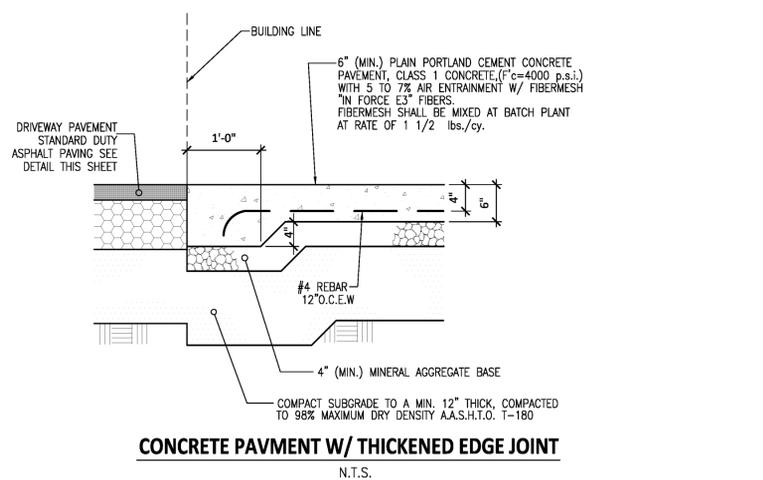
THIS DETAIL IS NOT FOR USE ON NCDOT-MAINTAINED STREETS. NOT TO SCALE

TOWN OF WAXHAW LAND DEVELOPMENT STANDARDS	DIRECTIONAL ACCESSIBLE RAMP WITH SMALL/MEDIUM CURB RADI	STD. NO.	REV.
		136.1	



NOT TO SCALE

TOWN OF WAXHAW LAND DEVELOPMENT STANDARDS	STANDARD PLACEMENT OF ACCESSIBLE RAMP AND GENERAL NOTES	STD. NO.	REV.
		131.1	



NO.	DATE	REVISION

North Carolina 811
Call Before You Dig
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

WIDEWATERS THE SHOPS AT PRESCOT VILLAGE
PRESCOT GLEN PARKWAY
TOWN OF WAXHAW,
UNION COUNTY, NC

JOB NUMBER: C220082
DESIGN BY: BMF
DATE: 11/30/2023

SHEET TITLE:
SITE DETAILS

SHEET NO.:
C8.1

DWG	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
300.01	METHOD OF PIPE INSTALLATION	
310.02	PARALLEL PIPE END SECTION-CAST CONCRETE FOR 15" TO 24" PIPE	REQUIRED IN RIGHT OF WAY
310.03	CROSS PIPE END SECTION-CAST CONCRETE FOR 18" TO 30" PIPE	REQUIRED IN RIGHT OF WAY
310.10	DRIVEWAY PIPE CONSTRUCTION USING NO SPECIAL END SECTIONS	ONLY AT LOCATIONS APPROVED BY THE TOWN ENGINEER
815.03	PIPE UNDERDRAIN AND BLIND DRAIN	
816.03	GEOCOPOSITIVE SHOULDER DRAIN	
838.01	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
	15" THRU 48" PIPE 90° SKEW	NOTE 1
838.02	CONCRETE ENDWALL AND SLUICE GATE 15" THRU 36" PIPE-90° SKEW	NOTE 1
838.04	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
	17"x13" THRU 71"x47" PIPE ARCH 90° SKEW	NOTE 1
838.05	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 15" THRU 48" PIPE	NOTE 1
838.06	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 17"x13" THRU 71"x47"	NOTE 1
	71"x47" ARCH PIPE	NOTE 1
838.07	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
	THRU 60"x31" PIPE ARCH	NOTE 1
838.08	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 40"x31"	NOTE 1
	THRU 60"x31" PIPE ARCH	NOTE 1
838.10	CONCRETE ENDWALL FOR OUTFALL 4"-6" OR 8" PIPE	NOTE 1
838.11	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
	15" THRU 48" 90° SKEW	NOTE 1
838.14	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 17"x31"	NOTE 1
	THRU 71"x47" 90° SKEW	NOTE 1
838.15	BRICK "L" ENDWALL FOR SINGLE PIPE CULVERTS 15" THRU 48" PIPE	NOTE 1
838.16	BRICK "L" ENDWALL FOR SINGLE PIPE CULVERTS 17"x13" THRU	NOTE 1
	71"x47" PIPE ARCH	NOTE 1
838.17	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 40"x31"	NOTE 1
	THRU 60"x31" PIPE ARCH 90° SKEW	NOTE 1
838.18	BRICK ENDWALL FOR SINGLE PIPE CULVERTS 40"x31" THRU	NOTE 1
	66"x51" PIPE ARCH 90° SKEW	NOTE 1
838.20	BRICK ENDWALL FOR OUTFALL 4", 6" AND 8" PIPE	NOTE 1
838.21	REINFORCED CONCRETE ENDWALL FOR SINGLE 54" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.22	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 54" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.27	REINFORCED CONCRETE ENDWALL FOR SINGLE 60" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.28	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 60" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.33	REINFORCED CONCRETE ENDWALL FOR SINGLE 66" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.34	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 66" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.39	REINFORCED CONCRETE ENDWALL FOR SINGLE 72" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.40	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 72" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD

NOTE 1: FOR ALL STRUCTURES - NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE TOWN REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL TOWN PROJECTS.

TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS

NCDOT STANDARDS
APPROVED FOR USE IN TOWN OF WAXHAW

STD. NO. 300.1
REV.

DWG	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
838.45	NOTES FOR REINFORCED CONCRETE ENDWALL STANDARD DRAWINGS	
838.51	REINFORCED BRICK ENDWALL FOR SINGLE 54" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.52	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 54" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.57	REINFORCED BRICK ENDWALL FOR SINGLE 60" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.58	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 60" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.63	REINFORCED BRICK ENDWALL FOR SINGLE 66" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.64	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 66" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.69	REINFORCED BRICK ENDWALL FOR SINGLE 72" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.70	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 72" PIPE 90° SKEW	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
838.75	NOTES FOR REINFORCED BRICK ENDWALL STANDARD DRAWINGS 838.51 THRU 838.70	NOTE 1 SEE 304.1 & 305.1, THIS SECTION FOR SPLASH PAD
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES	
840.01	BRICK CATCH BASIN 12" THRU 54" PIPE	
840.02	CONCRETE CATCH BASIN 12" THRU 54" PIPE	
840.03	FRAME, GRATE BASIN 12" THRU 54" PIPE	
840.04	CONCRETE OPEN THROAT CATCH BASIN 12" THRU 48" PIPE	
840.05	BRICK OPEN THROAT CATCH BASIN 15" THRU 48" PIPE	
840.14	CONCRETE DROP INLET 12" THRU 30" PIPE	
840.15	BRICK DROP INLET 12" THRU 30" PIPE	
840.16	DROP INLET FRAME AND GRATE FOR USE WITH DWGS. 840.14 & 840.15	
840.17	CONCRETE GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE	
840.18	CONCRETE GRATED DROP INLET TYPE "B" 12" THRU 36" PIPE	
840.19	CONCRETE GRATED DROP INLET TYPE "D" 12" THRU 36" PIPE	
840.20	FRAMES AND WIDE SLOT FLAT GRATES	
840.22	FRAMES AND WIDE SLOT SAG GRATES	
840.24	FRAMES AND NARROW SLOT SAG GRATES	
840.25	ANCHORAGE FOR FRAMES BRICK OR CONCRETE	
840.26	BRICK GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE	
840.27	BRICK GRATED DROP INLET TYPE "B" 12" THRU 36" PIPE	
840.28	BRICK GRATED DROP INLET TYPE "D" 12" THRU 36" PIPE	
840.29	FRAMES AND NARROW SLOT FLAT GRATES	
840.30	DRIVEWAY DROP INLET	

NOTE 1: FOR ALL STRUCTURES - NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE TOWN REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL TOWN PROJECTS.

TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS

NCDOT STANDARDS
APPROVED FOR USE IN THE TOWN OF WAXHAW

STD. NO. 301.1
REV.

DWG	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
840.31	CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE	NOTE 1: OPTIONAL MANHOLE IS REQUIRED
840.32	BRICK JUNCTION BOX 12" THRU 66" PIPE	NOTE 1: OPTIONAL MANHOLE IS REQUIRED
840.34	TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER	NOTE 1: OPTIONAL MANHOLE IS REQUIRED; AS MEASURED FROM BOTTOM OF TOP SLAB -- FOR JUNCTION BOX HEIGHT 0'-4" USE 8" THICK WALL, FROM 4" HEIGHT TO 10' HEIGHT, USE 12" THICK WALL. IF PROPOSED STRUCTURE EXCEEDS 12'-0" HEIGHT A SPECIAL DESIGN WILL BE REQUIRED
840.35	TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES	
840.36	TRAFFIC BEARING DROP INLET FOR STEEL (840.37) DOUBLE FRAME AND GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.37	STEEL GRATE AND FRAME	NOT FOR USE IN PEDESTRIAN AREAS
840.41	SPRING BOX CONCRETE OR BRICK	
840.45	PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL)	WAFFLE WALL IS NOT PERMITTED IN ROADWAY PLANTING STRIPS, OR MEDIANS. ALL OPENINGS SHALL BE PRE-CAST
840.46	TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE	
840.51	BRICK MANHOLE 12" 36" PIPE	
840.52	PRECAST MANHOLE 4", 5" AND 6" DIAMETER 12" THRU 42" PIPE	
840.53	PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE	
840.54	MANHOLE FRAME AND COVER	
840.60	DRAINAGE STRUCTURE STEPS	
840.71	CONCRETE PAVED DITCHES	
840.72	PIPE COLLAR	
850.01	CONCRETE PAVED DITCHES	
852.04	METHOD FOR PLACEMENT OF DRIP INLETS IN GRASSED MEDIAN (USING 1'-6" CURB AND GUTTER)	
852.05	METHOD FOR PLACEMENT OF DRIP INLETS IN CONCRETE MEDIAN (USING 1'-6" CURB AND GUTTER)	
852.06	METHOD OF PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS	
876.01	RIP RAP IN CHANNELS	
876.03	DRAINAGE DITCHES WITH CLASS "A" RIP RAP	
876.04	DRAINAGE DITCHES WITH CLASS "B" RIP RAP	
310.01	1998 DRAWINGS, CONCRETE FLARED END SECTION	

NOTE 1: FOR ALL STRUCTURES - NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE TOWN REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL TOWN PROJECTS.

TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS

NCDOT STANDARDS
APPROVED FOR USE IN THE TOWN OF WAXHAW

STD. NO. 302.1
REV.



NO.	DATE	REVISION

North Carolina 811
 *** 3 Days Before Digging ***
 North Carolina 811
 811 or 1-800-632-4949
 Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

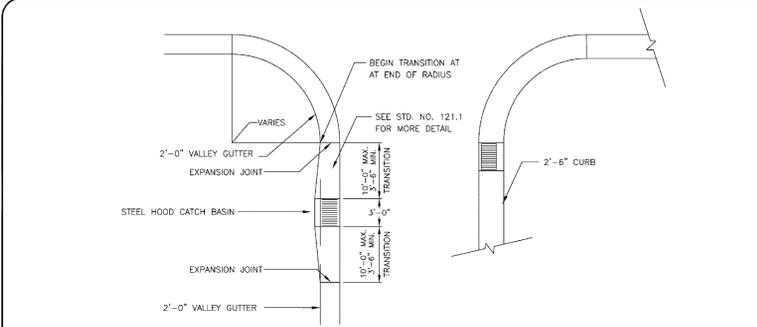
STIPULATION FOR REUSE
 THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

WIDEWATERS
THE SHOPS AT
PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023

SHEET TITLE:
SITE DETAILS

SHEET NO.:
C8.2



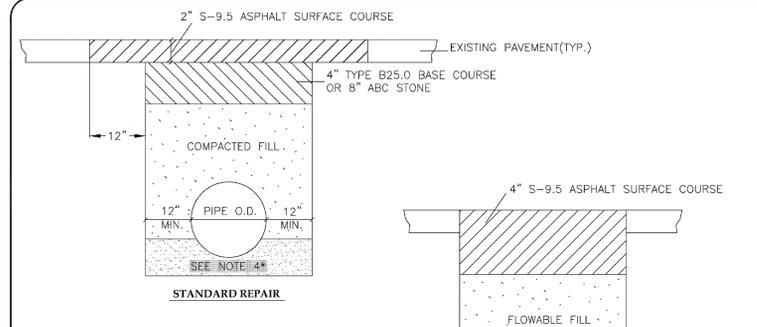
- NOTE:
- WHERE 2'-6" CURB AND GUTTER IS USED, CATCH BASINS MAY BE LOCATED AT END OF RADIUS.
 - RADIUS AT INTERSECTION MAY VARY.

NOT TO SCALE

TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS

CATCH BASIN PLACEMENT AT INTERSECTIONS

STD. NO. 122.1
REV.



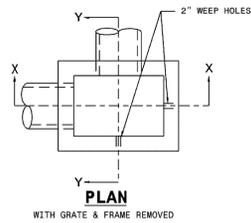
- GENERAL NOTES:
- AN ENCROACHMENT PERMIT MUST BE OBTAINED PRIOR TO WORKING IN THE PUBLIC RIGHT OF WAY.
 - ALL PAVEMENT SHALL BE SAWCUT.
 - BACKFILL SHALL BE PLACED IN 8" LIFTS MAX, COMPACTED TO 95% PER STANDARD PROCTOR. THE FINAL LIFT SHALL BE 100% COMPACTED.
 - PIPE SHALL BE BEDDED PER MANUFACTURER'S SPECIFICATIONS.
 - ASPHALT JOINTS MUST BE TACKED.
 - TRENCH SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA REGULATIONS.

NOT TO SCALE

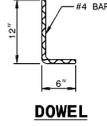
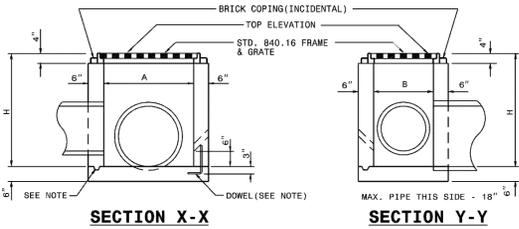
TOWN OF WAXHAW
LAND DEVELOPMENT STANDARDS

FINAL PAVEMENT REPAIR
OF UTILITY CUTS
TYPICAL SECTION

REV. DATE: 8/19
STD. NO. 290.1

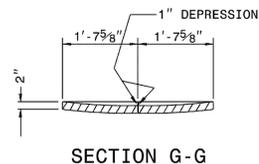


GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.05.
 CONSTRUCT WITH PIPE CHAINS MATCHING.
 SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
 INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.
 INSTALL STONE DRAINS OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A FORGED FABRIC BAG OR WOOD, AT EACH WEEP HOLE ON AS DIRECTED BY THE ENGINEER. CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.

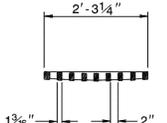


DIMENSIONS OF BOX & PIPE		CUBIC YARDS IN BOX		DEDUCTIONS FOR ONE PIPE			
PIPE	SPAN	WIDTH	MIN. HEIGHT	FT.	HT.	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015
15"	3'-0"	2'-0"	2'-3"	0.248	0.253	0.636	0.026
18"	3'-0"	2'-0"	2'-6"	0.273	0.283	0.684	0.049
24"	3'-0"	2'-0"	3'-0"	0.314	0.329	0.814	0.085
30"	3'-0"	2'-0"	3'-6"	0.322	0.337	0.925	0.127

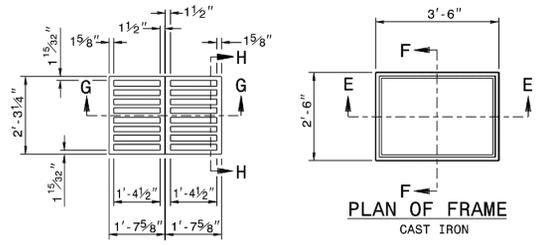
1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE
 SHEET 1 OF 1
 840.14



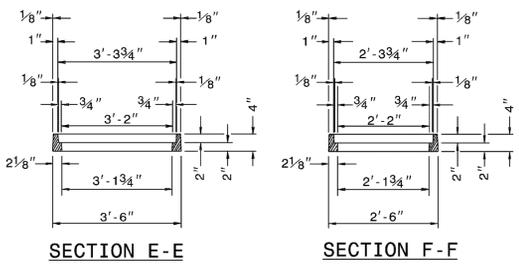
SECTION G-G



SECTION H-H



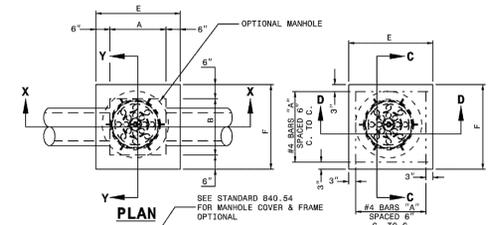
PLAN OF GRATING CAST IRON



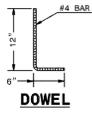
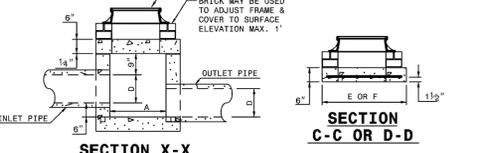
SECTION E-E

SECTION F-F

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR DROP INLET FRAME AND GRATES FOR USE WITH STD. DWG. S 840.14 AND 840.15
 SHEET 1 OF 1
 840.16

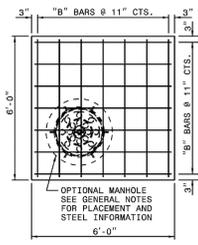


GENERAL NOTES:
 CHAMFER ALL EXPOSED CORNERS 1".
 USE CLASS "B" CONCRETE THROUGHOUT.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.05.
 PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
 ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)
 MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

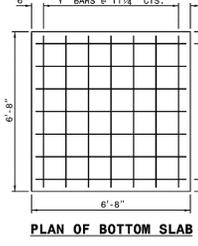


DIMENSIONS OF BOX AND PIPE		REINFORCEMENT BARS "A"		TOP SLAB DIMENSIONS		CUBIC YARDS IN BOX		TOTAL QUANTITIES FOR BOX AND SLAB		DEDUCTIONS FOR ONE PIPE CU. YDS.		
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	TOP SLAB	BOTTOM SLAB	WALL REINF.	C.S.	R.C.
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.167	0.165	22	0.700	0.015
15"	2'-0"	2'-0"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.196	0.196	24	0.802	0.033
18"	2'-0"	2'-0"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.227	0.227	30	1.055	0.033
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.296	0.296	40	1.434	0.059
30"	3'-0"	3'-0"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.375	0.375	51	1.880	0.127
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	64	2.341	0.132
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.560	0.560	77	2.878	0.180
48"	5'-4"	5'-4"	5'-3"	26	6'-3"	6'-4"	6'-4"	0.743	0.743	111	3.623	0.235
54"	5'-10"	5'-10"	5'-9"	28	6'-7"	6'-10"	6'-10"	0.865	0.865	126	4.283	0.297
60"	6'-6"	6'-6"	6'-3"	30	7'-3"	7'-6"	7'-6"	1.042	1.042	145	5.090	0.367
66"	7'-1"	7'-1"	6'-9"	32	7'-10"	8'-1"	8'-1"	1.210	1.210	169	5.917	0.444

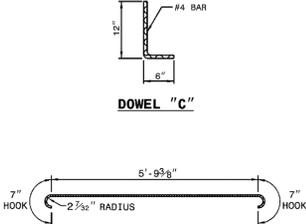
1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE
 SHEET 1 OF 1
 840.31



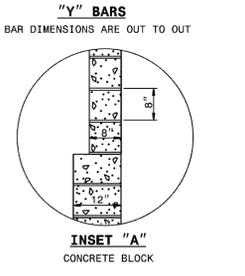
PLAN OF TOP SLAB



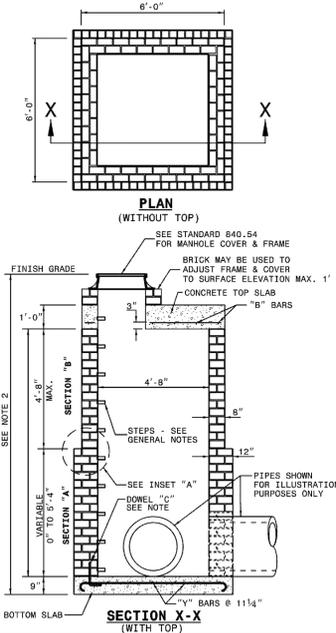
PLAN OF BOTTOM SLAB



DOWEL "C"



INSET "A"



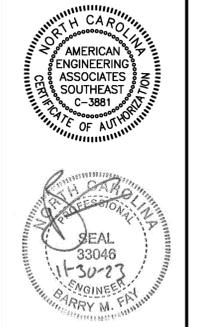
SECTION X-X (WITH TOP)

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER
 SHEET 1 OF 2
 840.34

GENERAL NOTES:
 USE STANDARD OR JUMBO BRICK FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL. INCLUDE ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL IN THE UNIT PRICE BID FOR EACH UNIT.
 INSTALL OPTIONAL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT OR BEND ALL REBAR CROSSING THIS OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE. ENCLOSE THE OPENING WITH #4 BARS TIED TO THE REBAR MAT AND SET SO A MINIMUM OF 3" CONCRETE COVER IS ATTAINED. REFERENCE STD. NO. 840.54 FOR MANHOLE INFORMATION.
 PROVIDE JUNCTION BOXES WITH MANHOLES OVER 3'-6" IN DEPTH WITH STEPS PLACED ON 12" CENTERS. REFERENCE STD. NO. 840.66.
 SPACE DOWEL "C" BARS AT A MAXIMUM OF 12" CENTERS.
 MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12".
 CONSTRUCT THE JUNCTION BOX IN ACCORDANCE WITH SECTIONS 830, 832, 834 AND 840 OF THE STANDARD SPECIFICATIONS.

BILL OF MATERIAL		
BAR	QTY.	WEIGHT
A	8	9.7
B	14	80.3
C	26	28.1
Y	14	101.5
STEEL TOTAL WEIGHT		217.6
CU. YDS. CLASS "AA" CONC.	2.6	
CU. YDS. BRICK/FT. HT. (8")	0.53	
CU. YDS. BRICK/FT. HT. (12")	0.84	

1-181 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER
 SHEET 2 OF 2
 840.34



NO.	DATE	REVISION

North Carolina 811
 *** 3 Days Before Digging ***
 North Carolina 811
 811 or 1-800-632-4949
 Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

STIPULATION FOR REUSE
 THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**WIDEWATERS
 THE SHOPS AT
 PRESCOT VILLAGE
 PRESCOT GLEN PARKWAY
 TOWN OF WAXHAW,
 UNION COUNTY, NC**

JOB NUMBER: C220082
 DESIGN BY: BMF
 DATE: 11/30/2023
 SHEET TITLE:
SITE DETAILS
 SHEET NO.:
C8.6

