

SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE FOR SSB-1
NOT TO SCALE

Legend

| EXISTING | PROPOSED |
|-----------------------------|-----------------------------|
| ○ | ○ |
| △ | △ |
| □ | □ |
| — | — |
| R/W | R/W |
| C&G | C&G |
| DI | DI |
| EM | EM |
| F/O | F/O |
| FH | FH |
| GV | GV |
| HB | HB |
| LB | LB |
| LP | LP |
| PP | PP |
| RCP | RCP |
| S.F. | S.F. |
| WM | WM |
| WMH | WMH |
| WV | WV |
| WELL | WELL |
| PEDESTRIAN X-WALK POLE | PEDESTRIAN X-WALK POLE |
| ELECTRIC LINE | ELECTRIC LINE |
| SANITARY SEWER FORCE MAIN | SANITARY SEWER FORCE MAIN |
| FIBER OPTIC LINE | FIBER OPTIC LINE |
| GAS LINE | GAS LINE |
| OVERHEAD ELECTRIC LINE | OVERHEAD ELECTRIC LINE |
| SANITARY SEWER LINE | SANITARY SEWER LINE |
| TELEPHONE LINE | TELEPHONE LINE |
| CABLE TV LINE | CABLE TV LINE |
| WATER LINE | WATER LINE |
| FIRE LINE | FIRE LINE |
| 8\"/> | |
| 12\"/> | |
| SPILL CURB | SPILL CURB |
| FENCE | FENCE |
| RIPARIAN BUFFER | RIPARIAN BUFFER |
| TREELINE | TREELINE |
| MAJOR CONTOUR (5') | MAJOR CONTOUR (5') |
| MINOR CONTOUR (1') | MINOR CONTOUR (1') |
| TREE PROTECTION FENCE | TREE PROTECTION FENCE |
| SILT FENCE | SILT FENCE |
| CONCRETE SIDEWALK | CONCRETE SIDEWALK |
| ACCESS AND UTILITY EASEMENT | ACCESS AND UTILITY EASEMENT |
| TREE PRESERVATION AREA | TREE PRESERVATION AREA |
| OPEN SPACE AREA | OPEN SPACE AREA |
| TDD DRAINAGE AREA | TDD DRAINAGE AREA |
| SKIMMER BASIN DRAINAGE AREA | SKIMMER BASIN DRAINAGE AREA |



- Final Drawing -
Issued for Permit
Review Purposes Only

REVISIONS:

| # | DATE | DESCRIPTION |
|---|----------|-----------------------------|
| 1 | 11/14/23 | ISSUED FOR PERMIT REVIEW |
| 2 | 11/14/23 | REVISED PER REVIEW COMMENTS |
| 3 | 11/14/23 | REVISED PER REVIEW COMMENTS |
| 4 | 11/14/23 | REVISED PER REVIEW COMMENTS |
| 5 | 11/14/23 | REVISED PER REVIEW COMMENTS |

CROSLAND SOUTHEAST

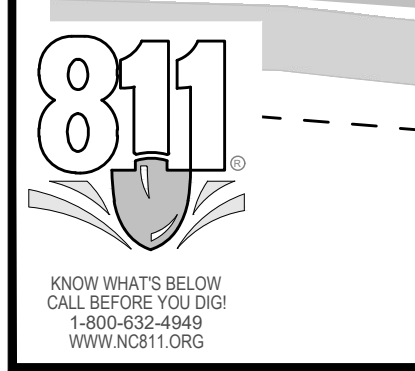
EROSION CONTROL - PH. 1

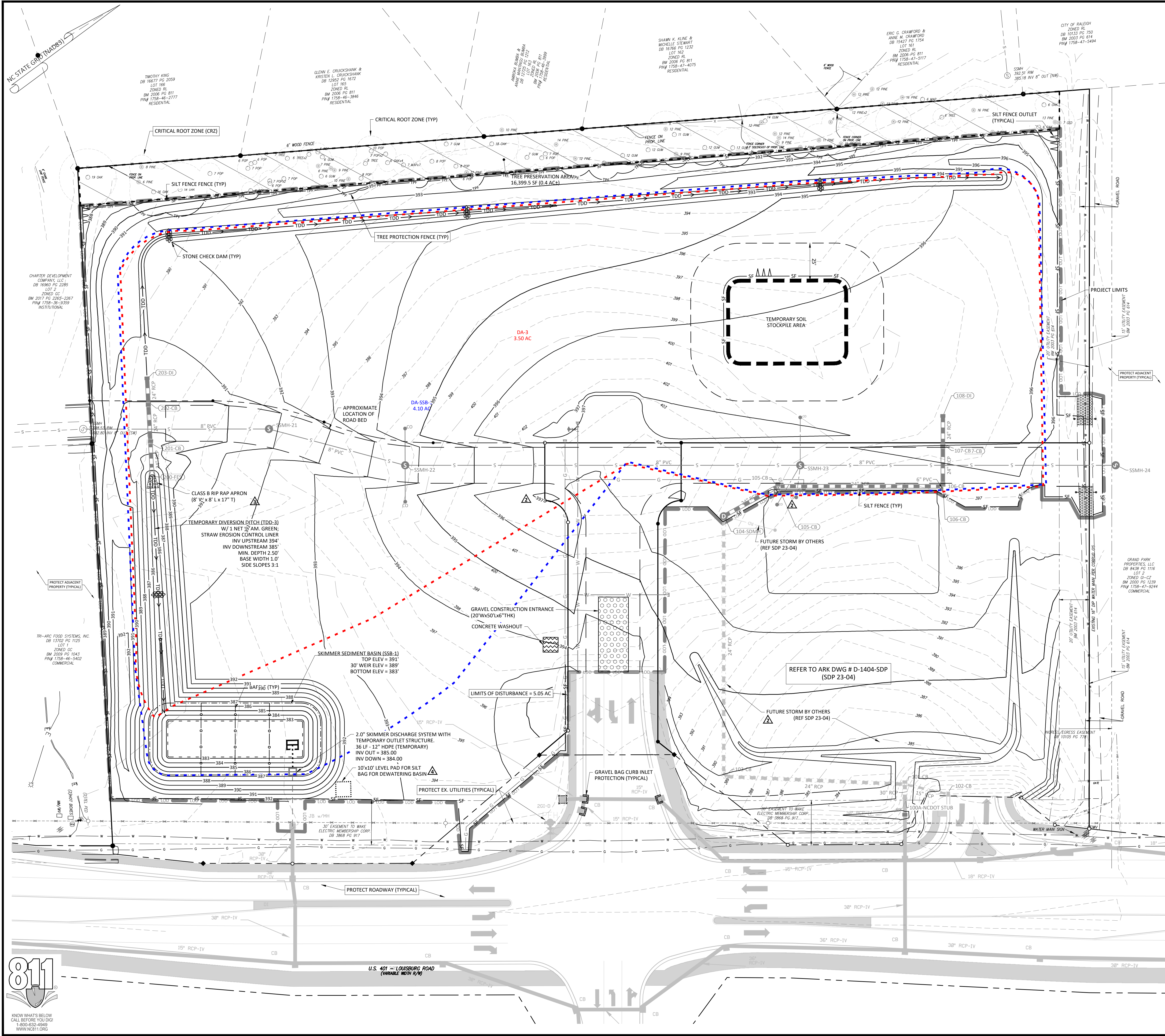
WALLBROOK ROADWAY IMPROVEMENTS
VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
Town of Rolesville Project No. CID 23-04
US 401 Business / S. Main Street & Virginia Water Drive
Wake Forest Township, Town of Rolesville, Wake County, North Carolina

NC License: PA 1398
ARK CONSULTING GROUP PLLC
ENGINEERS & PLANNERS
935-A Conference Dr.
Wake Forest, NC 27888
(757) 558-0888
www.arkconsultinggroup.com

Project Manager: BCF
Drawn By: DLC/TGN
Checked By: TGN
Project Number: 22049
Drawing Number: D-1404-CID

C1.1
Date: May 1, 2023

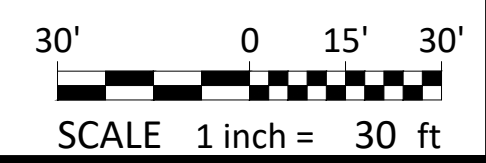




| STRUCTURE TABLE | | | | |
|-----------------|--------|-------------------------------------|--------------------------|-----------------------|
| ID | TOP | IN | OUT | DESC |
| 100-DI | 390.70 | | | Drop Inlet |
| 100A-NCODT STUB | 385.95 | 383.00 (101-CB) | | U-6241 Project Tie-in |
| 101-CB | 394.11 | 383.27 (103-CB) 390.32 (102-CB) | 383.07 (100A-NCODT STUB) | Catch Basin |
| 102-CB | 393.73 | | 390.90 (101-CB) | Catch Basin |
| 103-CB | 395.26 | 384.93 (104-SDMH) | 384.73 (101-CB) | Catch Basin |
| 104-SDMH | 397.42 | 387.21 (105-CB) 389.57 (104A-CO) | 387.01 (103-CB) | 48 in MH |
| 105-CB | 397.54 | 387.90 (106-CB) | 387.70 (104-SDMH) | Catch Basin |
| 106-CB | 397.03 | 389.43 (107-CB) 392.75 (106A-CO) | 389.23 (105-CB) | Catch Basin |
| 106A-CO | 397.17 | | 392.83 (106-CB) | CO |
| 107-CB | 397.03 | 389.96 (108-DI) | 389.76 (106-CB) | Catch Basin |
| 108-DI | 396.74 | | 390.19 (107-CB) | Drop Inlet |
| 200-FES | 387.99 | 385.66 (201-CB) | | Flared End Section |
| 201-CB | 389.58 | 385.77 (202-CB) | 385.77 (200-FES) | Catch Basin |
| 202-CB | 390.00 | 385.90 (203-DI) | 385.90 (201-CB) | Catch Basin |
| 203-DI | 390.17 | | 385.99 (202-CB) | Drop Inlet |

| Rip Rap Aprons | | | | | | |
|----------------|-----------|----------|----------|----------|----------|-------------|
| Outlet | Size (in) | Pad (ft) | Pad (ft) | Pad (ft) | Pad (ft) | Stone Class |
| 200-FES | 24 | 4 | 8 | 8 | 17 | B |

- Legend**
- EXISTING**
- FOUND MONUMENT AS NOTED
 - SET IRON PIN
 - △ NGS MONUMENT
 - DIMENSION POINT (NOTHING SET)
 - PROPERTY LINE
 - R/W RIGHT OF WAY
 - C&G CURB AND GUTTER
 - CAV CABLE TV PEDESTAL
 - DI DROP INLET
 - ELEC ELECTRIC BOX
 - EM ELECTRIC METER
 - F/O FIBER OPTIC
 - FH FIRE HYDRANT
 - GV GAS VALVE
 - HB HAND BOX
 - LP LIGHT POLE
 - PP POWER POLE
 - GUY GUY WIRE
 - RCP REINFORCED CONCRETE PIPE
 - S.F. SQUARE FEET (AREA)
 - SIGN SIGN
 - TRAFFIC SIGNAL POLE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER FORCE MAIN VALVE
 - STORM DRAIN MANHOLE
 - STORM DRAIN CATCH BASIN
 - TELEPHONE PEDESTAL
 - TRAFFIC BOX
 - WATER BOX
 - WM WATER METER
 - WMH WATER MANHOLE
 - WV WATER VALVE
 - WELL WELL
 - PEDESTRIAN X-WALK POLE
 - ELECTRIC LINE
 - SANITARY SEWER FORCE MAIN
 - FIBER OPTIC LINE
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 - △ TDD DRAINAGE AREA
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- Final Drawing -
Issued for Permit
 Reviewed for Review & Owner Comments
 1. 11/25/24 REVIEWED FOR REVIEW & OWNER COMMENTS
 2. 11/25/24 REVIEWED FOR REVIEW & OWNER COMMENTS
 3. 11/25/24 REVIEWED FOR REVIEW & OWNER COMMENTS
 4. 11/25/24 REVIEWED FOR REVIEW & OWNER COMMENTS
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CROSLAND SOUTHEAST

EROSION CONTROL PLAN - PH. 2

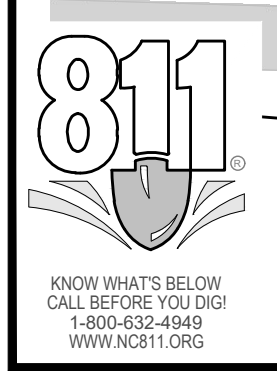
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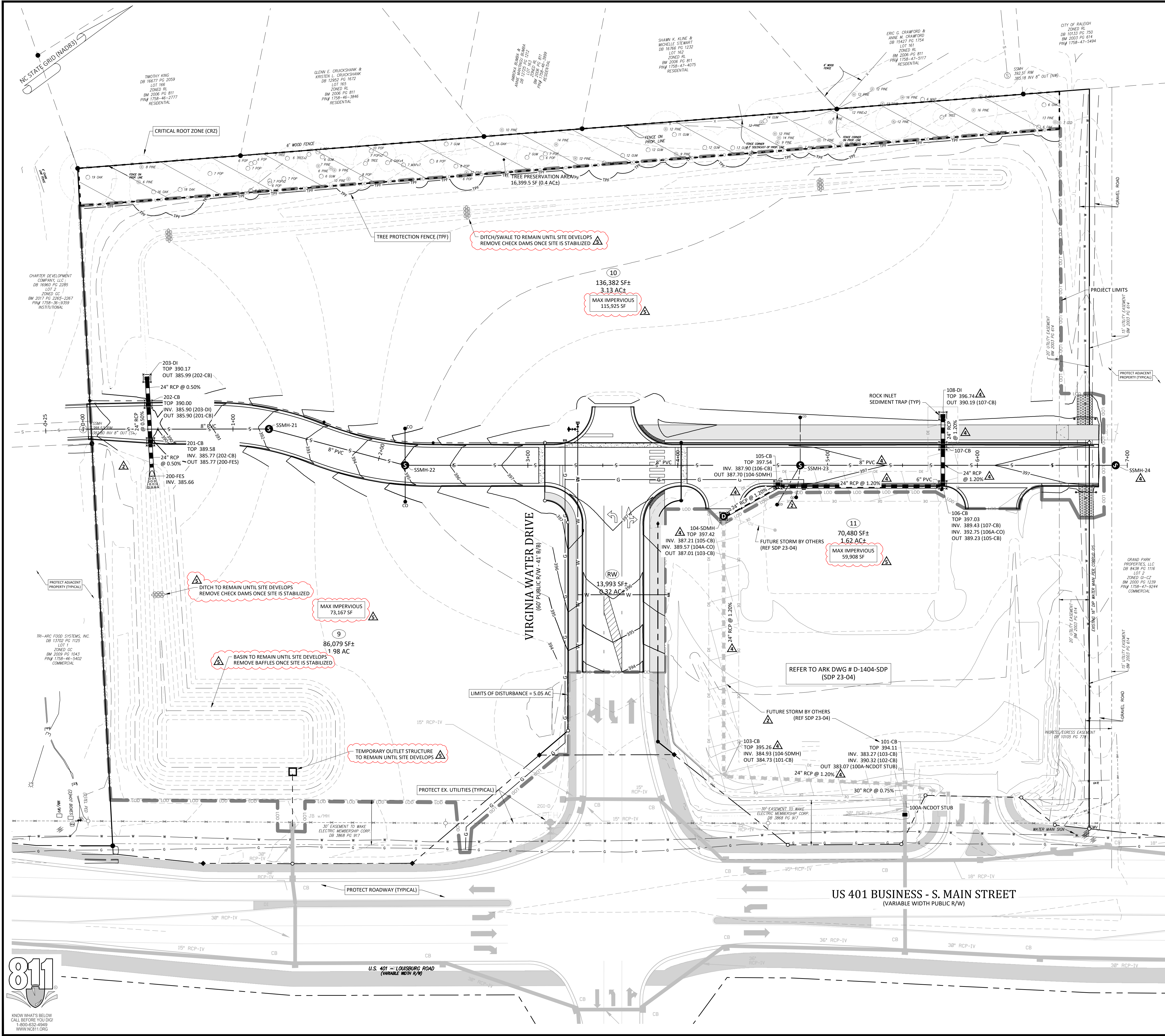
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Professional Engineer Seal: NORTH CAROLINA PROFESSIONAL ENGINEER, License No. 31970, Exp. 9/15/2024, Engineer: J. C. FAGUNDY

Project Manager: BCF
 Drawn By: DLC/TGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C1.2
 Date: May 1, 2023





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Legend

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- S.F. = SQUARE FEET (AREA)
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- = TELEPHONE PEDESTAL
- = TRAFFIC BOX
- = WATER BOX
- = WATER METER
- = WATER MANHOLE
- = WATER VALVE
- = WELL
- = PEDESTRIAN X-WALK POLE
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- = CONCRETE SIDEWALK

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- = TREE PRESERVATION AREA
- = OPEN SPACE AREA
- = TOD DRAINAGE AREA
- = SKIMMER BASIN DRAINAGE AREA

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| 2 | 11-MAY-23 | REVISED PER TOR REVIEW COMMENTS |
| 3 | 11-MAY-24 | REVISED PER REVIEW & OWNER COMMENTS |
| 4 | 12-MAY-24 | REVISED PER REVIEW & OWNER COMMENTS |
| 5 | 13-SEP-24 | REVISED PER REVIEW & OWNER COMMENTS |

CROSLAND SOUTHEAST

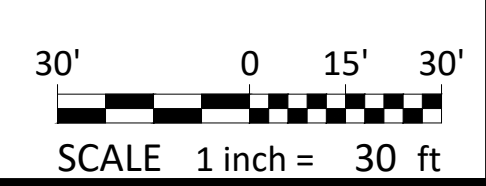
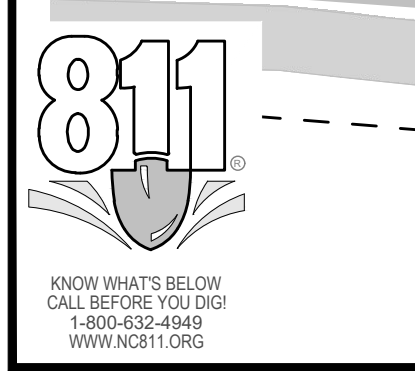
EROSION CONTROL - PH. 3

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Project Manager: BCF
 Drawn By: DLC/TGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C1.3
 Date: May 1, 2023



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 project 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 -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 |
| (d) Slopes 3:1 to 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 |
| (e) Areas with slopes flatter than 4:1 | 14 | -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 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:

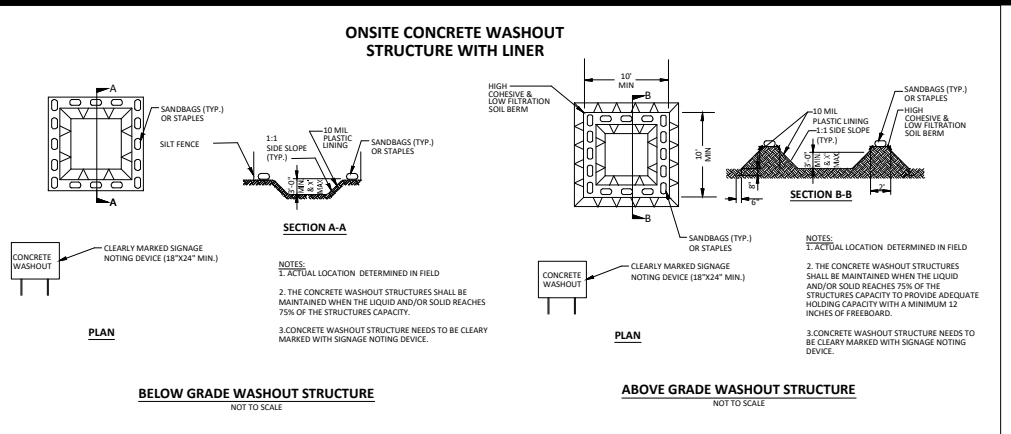
| Temporary Stabilization | Permanent Stabilization |
|---|---|
| <ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch plastic 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 resist erosion Structural methods such as concrete, asphalt, or retaining walls Roller 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.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle/settle, 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.

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.

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.

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

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 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 daily 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&S 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. Identification 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 (SODs) | 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 (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 under Part III, Section C, Item (3)(a) of this permit of this permit. |
| (6) Ground stabilization measures | After each phase of grading | 1. The phase of grading (installation of perimeter E&S 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&S Plan Documentation

The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be documented in the manner described:

| Item to Document | Documentation Requirements |
|---|---|
| (a) Each E&S Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S Plan. | Initial and date each E&S Measure on a copy of the approved E&S Plan or complete, date and sign an inspection report that lists each E&S Measure shown on the approved E&S Plan. This documentation is required upon the initial installation of the E&S Measures or if the E&S Measures are modified after initial installation. |
| (b) A phase of grading has been completed. | Initial and date a copy of the approved E&S 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&S Plan. | Initial and date a copy of the approved E&S 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&S Measures have been performed. | Complete, date and sign an inspection report. |
| (e) Corrective actions have been taken to E&S Measures. | Initial and date a copy of the approved E&S Plan or complete, date and sign an inspection report to indicate the completion of the corrective action. |

2. Additional Documentation

In addition to the E&S Plan documents above, the following items shall be kept on the site and available for agency 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:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. 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.
- All data used to complete the Notice of Intent and other 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:

- Visible sediment deposition in a stream or wetland.
- 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).
- 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.
- Anticipated bypasses and unanticipated bypasses.
- 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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

| Occurrence | Reporting Timeframes (After Discovery) and Other Requirements |
|--|--|
| (a) Visible sediment deposition in a stream or wetland | - Within 24 hours , an oral or electronic notification. - Within 7 calendar days , a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. - If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. |
| (b) Oil spills and release of hazardous substances per Item 1(b)-(c) above | - Within 24 hours , an oral 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)] | - 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)] | - 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(i)(7)] | - 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 recurrence of the noncompliance. [40 CFR 122.41(i)(6)]. - Division staff may waive the requirement for a written report on a case-by-case basis. |

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

Wake County Basin Removal Sequence:

- SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
- CONTACT NCEQD - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCEQD-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&S JURISDICTION; WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR CONVERSION, B) BASIN #, C) DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. KEEP EMAIL FOR YOUR NDEP MONITORING DOCUMENTATION
- AFTER RECEIVING POSITIVE CONFIRMATION FROM NCEQD-DEMLR THAT YOU MAY REMOVE THE BASIN OR > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
- PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
- INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

Erosion Control Provisions:

- NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING WAKE COUNTY WATERSHED MANAGEMENT OF THE DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
- LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.
- SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER, JEEVAN NEUPANE, PE (919-819-8907) PRIOR TO INITIATING LAND DISTURBING ACTIVITIES IS REQUIRED. FOR INSPECTION CALL 919-819-8907, 48 HOUR NOTICE IS REQUIRED.
- INSTALL TREE PROTECTION FENCING AROUND ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS SHOWN ON PLANS.
- PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.
- SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
- CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5000.00 PER DAY OF VIOLATION.
- THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
- ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE COUNTY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
- PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER RESOURCES (DWR). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, RALEIGH REGIONAL OFFICE AT (919) 791-4200.
- ALL AREAS DOWNSTREAM OF TEMPORARY BASINS AND DITCHES ARE TO BE STABILIZED IMMEDIATELY UPON CONSTRUCTION.

Construction Sequence:

- EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR.
- CALL WAKE COUNTY WATERSHED MANAGER JEEVAN NEUPANE AT (919) 819-8907 A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING AND FOR NOTIFICATION OF PROJECT START UP.
- ANY DEWATERING ON THE SITE SHALL BE DONE THROUGH A SILT BAG THAT IS CONSTANTLY MONITORED.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, TREE PROTECTION FENCE, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL WATERSHED MANAGER, JEEVAN NEUPANE FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL TEMPORARY SKIMMER SEDIMENT BASINS, ALONG WITH TEMPORARY DIVERSION DITCHES THAT SHALL BE INSTALLED TO ENSURE AS MUCH FLOW AS POSSIBLE IS DIRECTED TO THE BASINS.
- AS ROUGH GRADING CONTINUES, DEVICES SHALL BE MAINTAINED AND CLEANED OF SEDIMENT. SKIMMER SEDIMENT BASINS TO BE ABANDONED SHALL BE REMOVED AS FOLLOWS: DEWATER THROUGH SILT BAG, CLEAN SEDIMENT, REMOVE BAFFLES, BACKFILL BASIN AND STABILIZE IMMEDIATELY. DEWATERING OPERATIONS THROUGH SILT BAGS SHALL BE MONITORED CONTINUOUSLY.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, DITCH LININGS, ETC. SEED AND MULCH DENUDDED AREAS PER GROUND STABILIZATION TIME FRAME.
- WHEN ROUGH GRADING IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL WATERSHED MANAGER JEEVAN NEUPANE FOR INSPECTION.
- IF SITE IS APPROVED, MAINTAIN TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE WATERSHED MANAGER, JEEVAN NEUPANE. OBTAIN CERTIFICATE OF COMPLETION.

WAKE COUNTY Environmental Services

Effective September 1, 2008
Soil stockpiles shall be located on the approved plan and shall adhere to the following requirements:

Design Criteria

- A 25-foot temporary maintenance and access easement shall be shown around all proposed stockpiles (erosion control measures surrounding the stockpile shall be shown at the outer limit of this easement).
- Stockpile footprints shall be setback a minimum of 25' from adjacent property lines.
- A note shall be provided on the approved plan that stockpile height shall not exceed 35 feet.
- Stockpile slopes shall be 2:1 or flatter.
- Approved BMPs shall be shown on a plan to control any potential sediment loss from a stockpile.
- Stockpiling materials adjacent to a ditch, drainage-way, watercourse, wetland, stream buffer, or other body of water shall be avoided unless an alternative location is demonstrated to be unavoidable.
- Any concentrated flow likely to affect the stockpile shall be diverted to an approved BMP.
- Off-site spoil or borrow areas must be in compliance with Wake County UDO and State Regulations. All spoil areas over an acre are required to have an approved sediment control plan. Developer/Contractor shall notify Wake County of any off-site disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified Development Ordinance (certifications and permits required).

Maintenance Requirements to be Noted on the Plan

- Soiling or covering stockpiles with tarps or mulch is required and will reduce erosion problems. Tarps should be keyed in at the top of the slope to keep water from running underneath the plastic.
- If a stockpile is to remain for future use after the project is complete (builders, etc.), the financial responsible party must notify Wake County of a new responsible party for that stockpile.
- The approved plan shall provide for the use of graded seeding and mulching on a continual basis while the stockpile is in use.
- Establish and maintain a vegetative buffer at the toe of the slope (where practical).

Seeding Specifications

NPDES Stormwater Discharge Permit for Construction Activities (NCG01 - 4/1/19)
NCEQD/Division of Energy, Mineral and Land Resources

| Site Area Description | Seeding Rate | Seeding Method | Seeding Schedule |
|--|--------------|----------------|------------------|
| (a) Perimeter dikes, swales, ditches, and perimeter slopes | 300 lbs/acre | Hybrids*** | Aug 15 - Nov 1 |
| (b) High Quality Water (HQW) Zones | 300 lbs/acre | Hybrids*** | Nov 1 - Mar 1 |
| (c) Slopes steeper than 3:1 | 300 lbs/acre | Hybrids*** | Mar 1 - Apr 15 |
| (d) Slopes 3:1 to 4:1 | 25 lbs/acre | Hybrids*** | Apr 15 - Jun 30 |
| (e) Areas with slopes flatter than 4:1 | 35 lbs/acre | Hybrids*** | Jul 1 - Aug 15 |

Seedbed Preparation:

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

Mixture

Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils)
Fertilizer 1,000 lbs/acre - 10-10-10
Superphosphate 500 lbs/acre - 20% analysis
Mulch 2 tons/acre - small grain straw
Anchor Asphalt emulsion at 400 gals/acre

Seeding Schedule

For Shoulders, Side Ditches, Slopes (Max 3:1):

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

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

| Date | Type | Planting Rate |
|----------------|---|--|
| Mar 1 - Jun 1 | Seriesa Lespedeza (scarified) and use the following combinations: | 50 lbs/acre (Seriesa Lespedeza); |
| Mar 1 - Apr 15 | Add Tall Fescue | 120 lbs/acre |
| Mar 1 - Jun 30 | Or add Weeping Love grass | 10 lbs/acre |
| Mar 1 - Jun 30 | Or add Hulled Common Bermudagrass | 25 lbs/acre |
| Jun 1 - Sept 1 | Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids*** | 120 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids) |
| Sept 1 - Nov 1 | Seriesa Lespedeza (unhulled) AND Tall Fescue | 70 lbs/acre (Seriesa Lespedeza); 120 lbs/acre (Tall Fescue) |
| Nov 1 - Mar 1 | AND Abruzzi Rye | 25 lbs/acre |

Consult Wake County Soil & Water Conservation District or NC State Cooperative Extension for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions; other seeding rate combinations are possible.

*** TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing; otherwise, fescue may be shaded out.

-Final Drawing - Issued for Permit Review Purposes Only

EROSION CONTROL NOTES

WALLBROOK ROADWAY IMPROVEMENTS

VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)

Town of Roanoke Project No. CID 23-04
US 401 Business / S. Main Street & Virginia Water Drive
Wake Forest Township, Town of Roanoke, Wake County, North Carolina

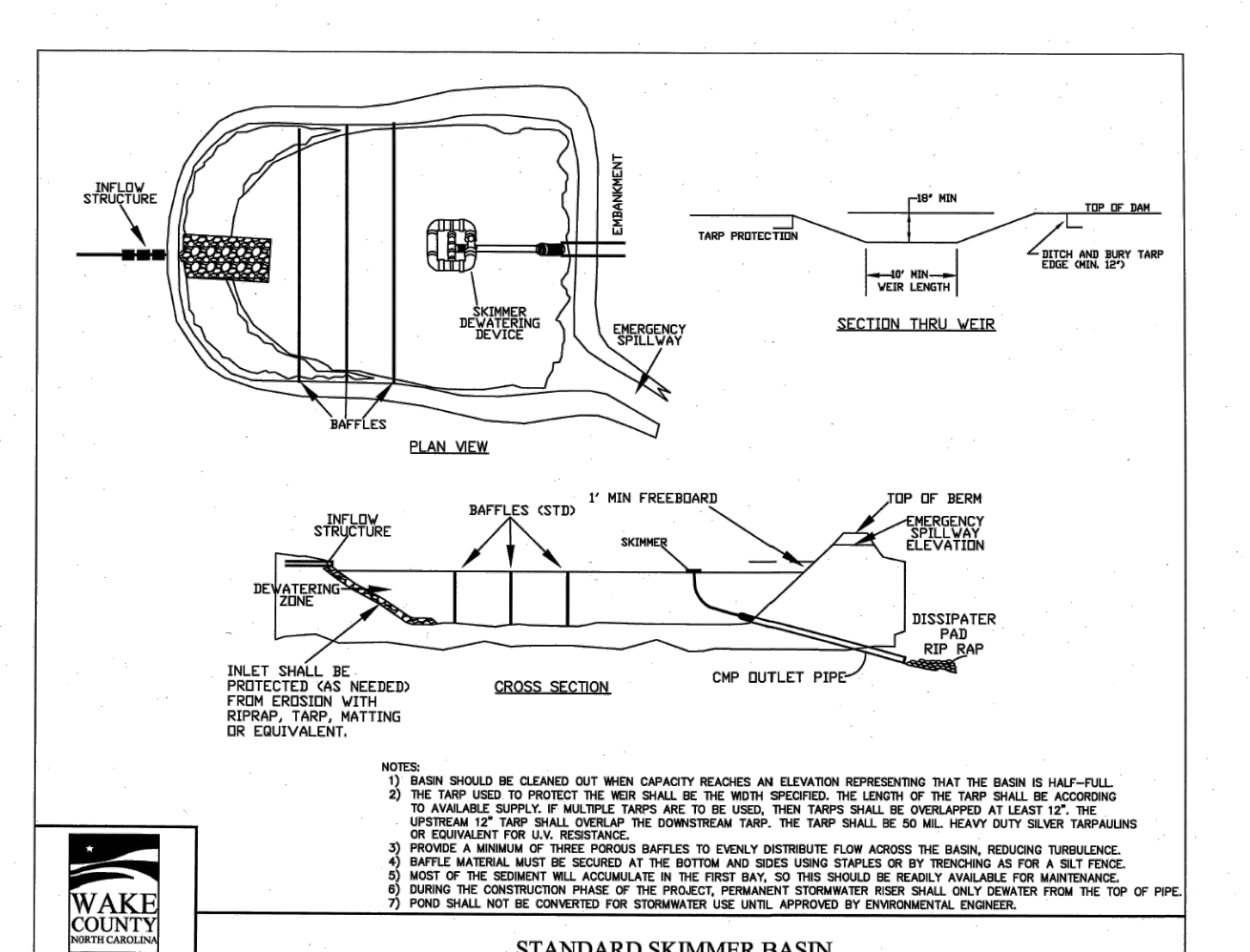
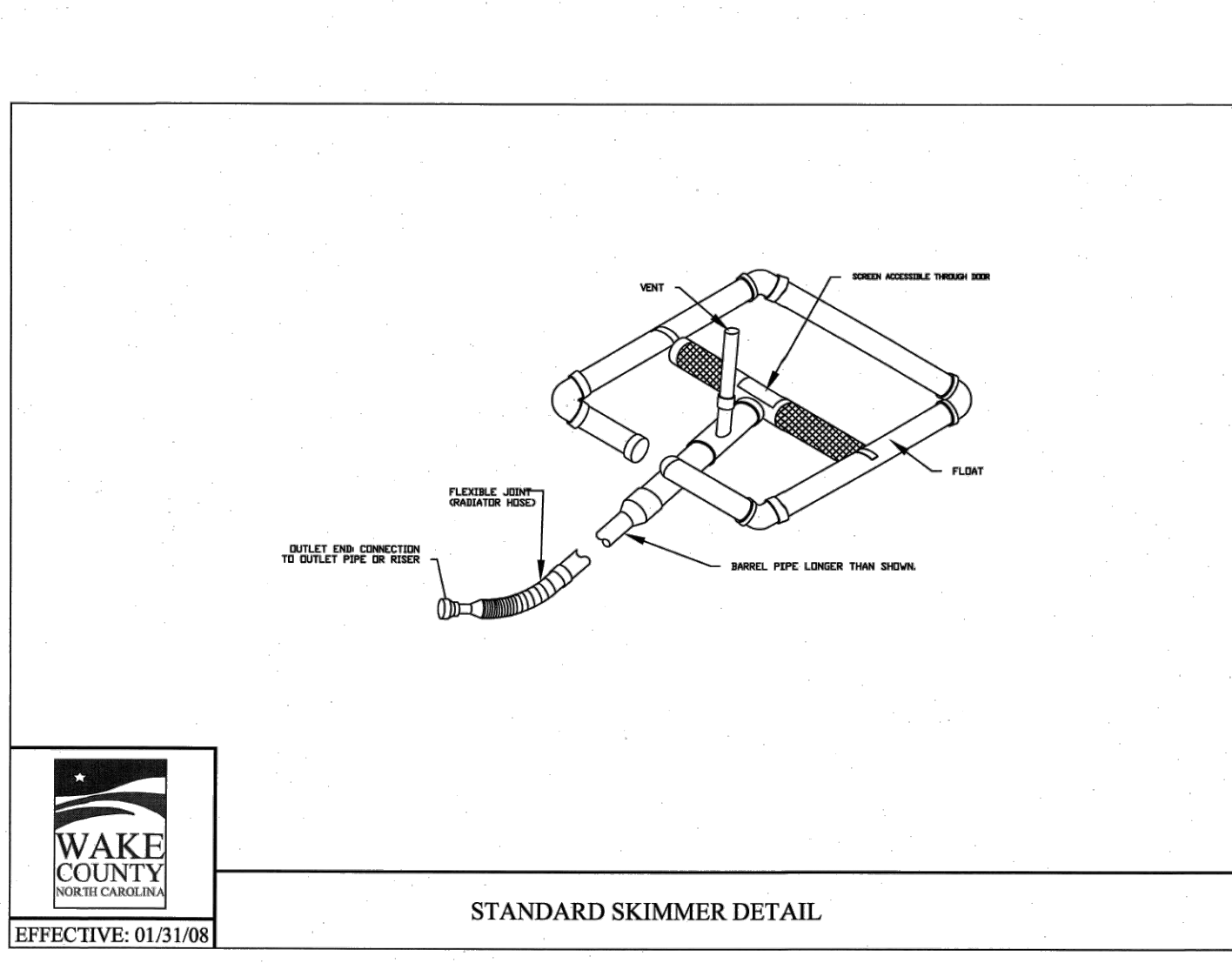
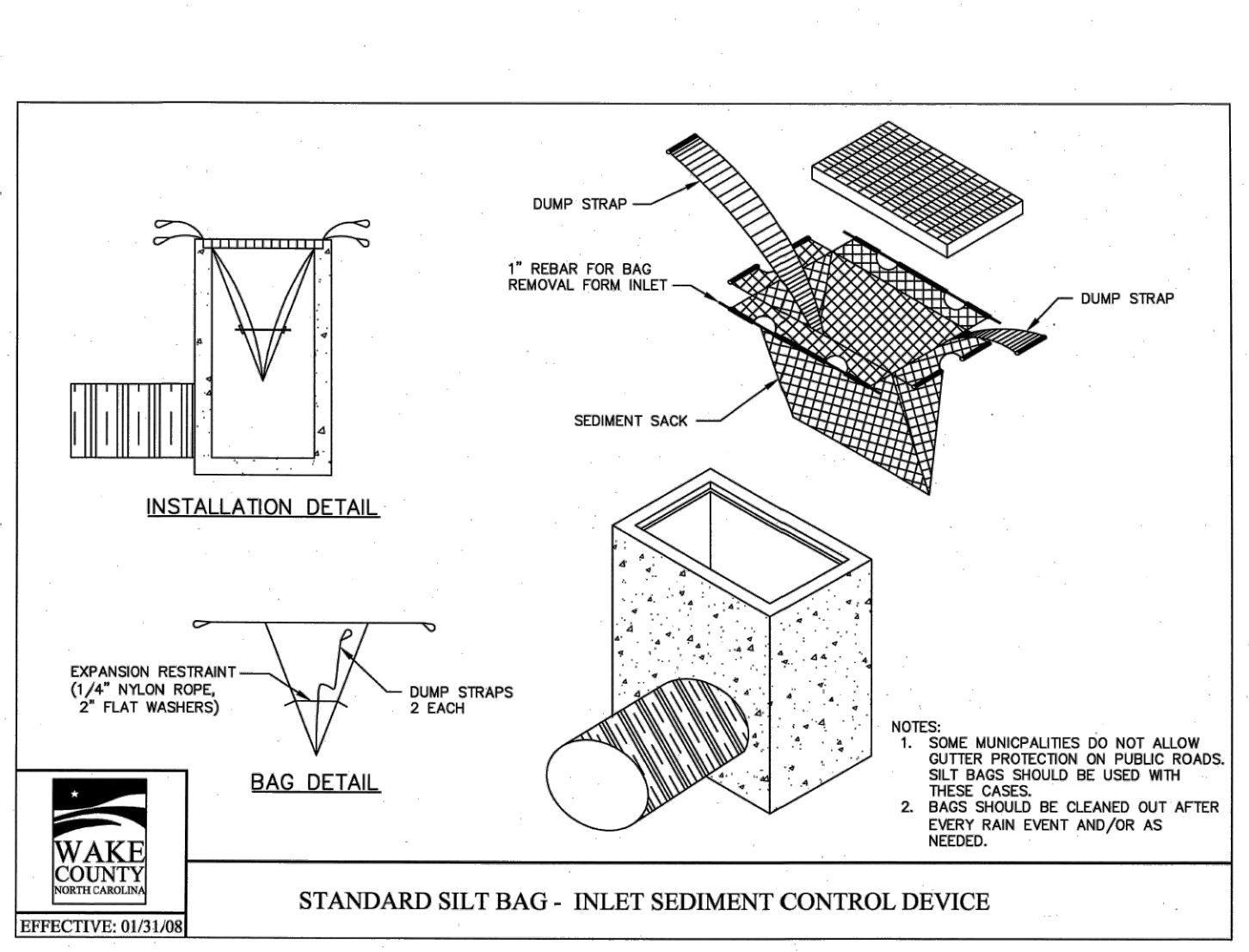
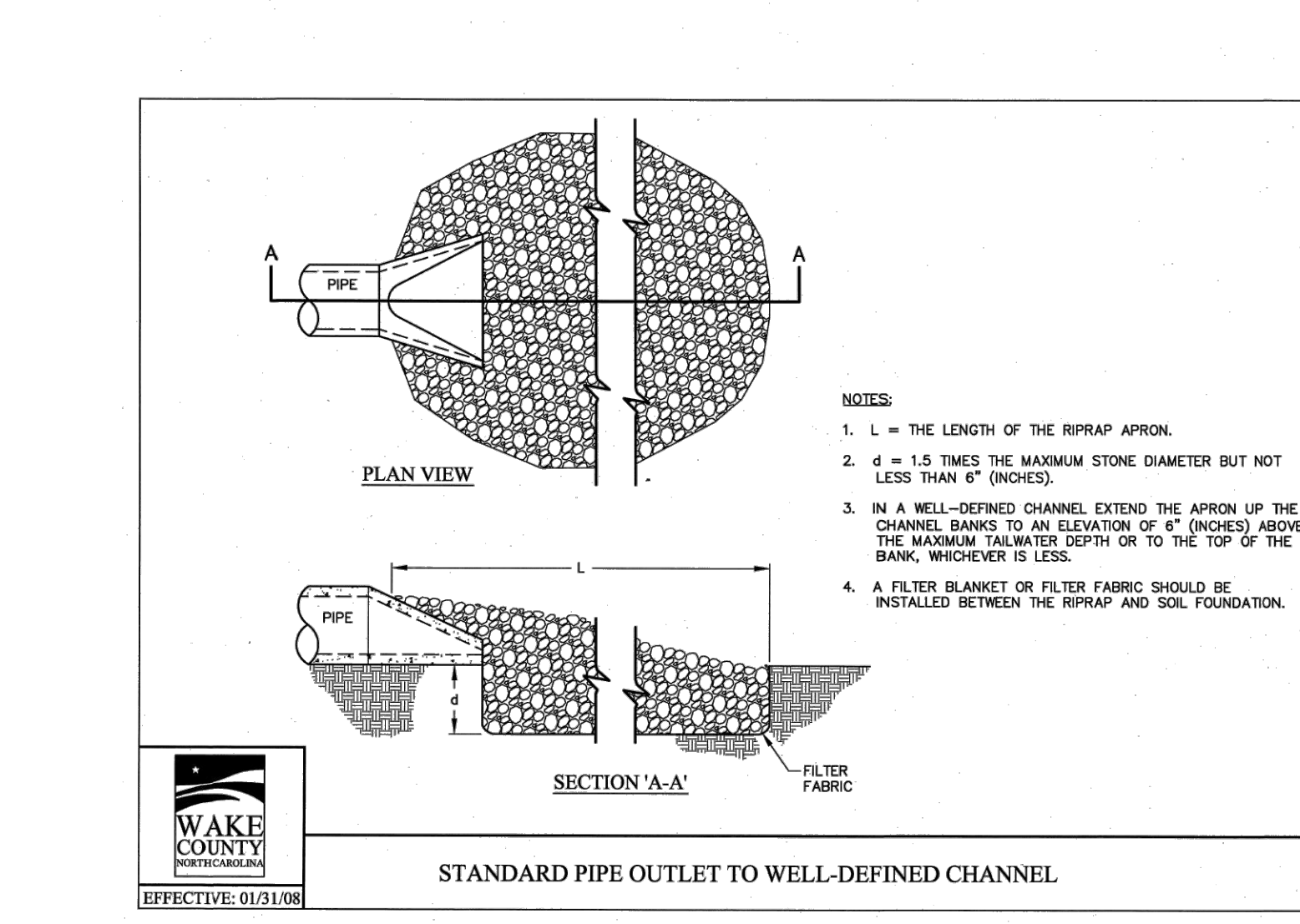
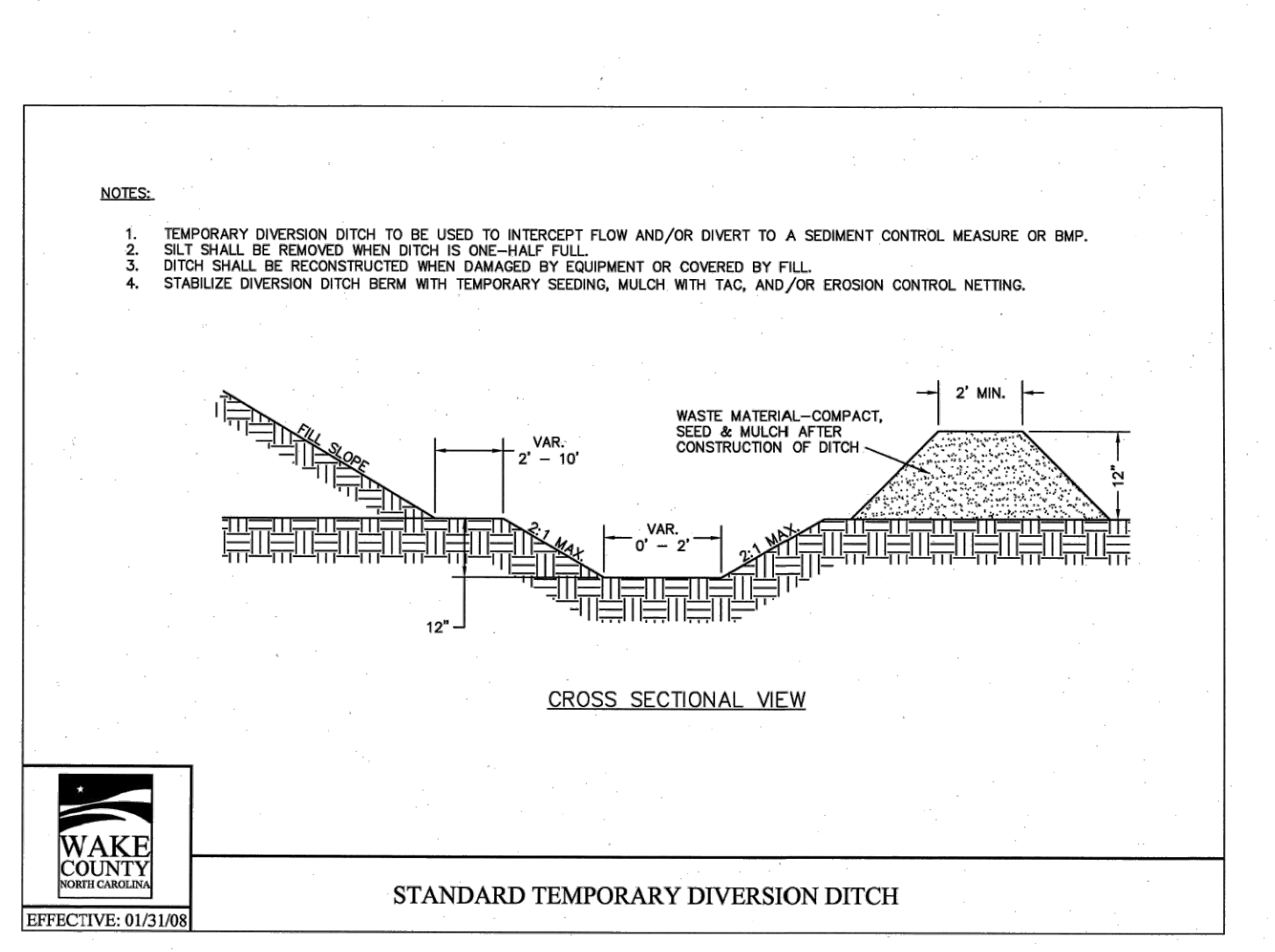
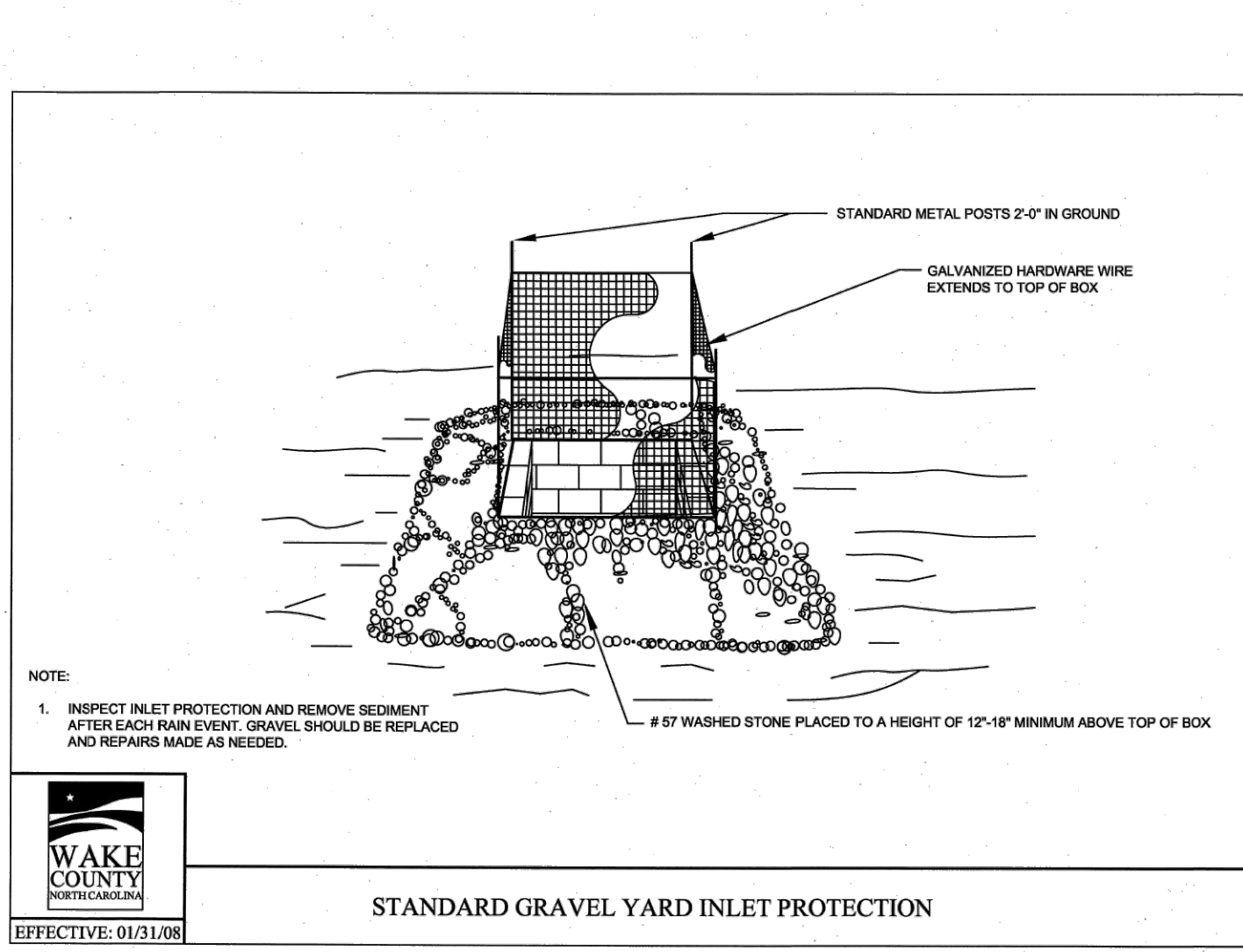
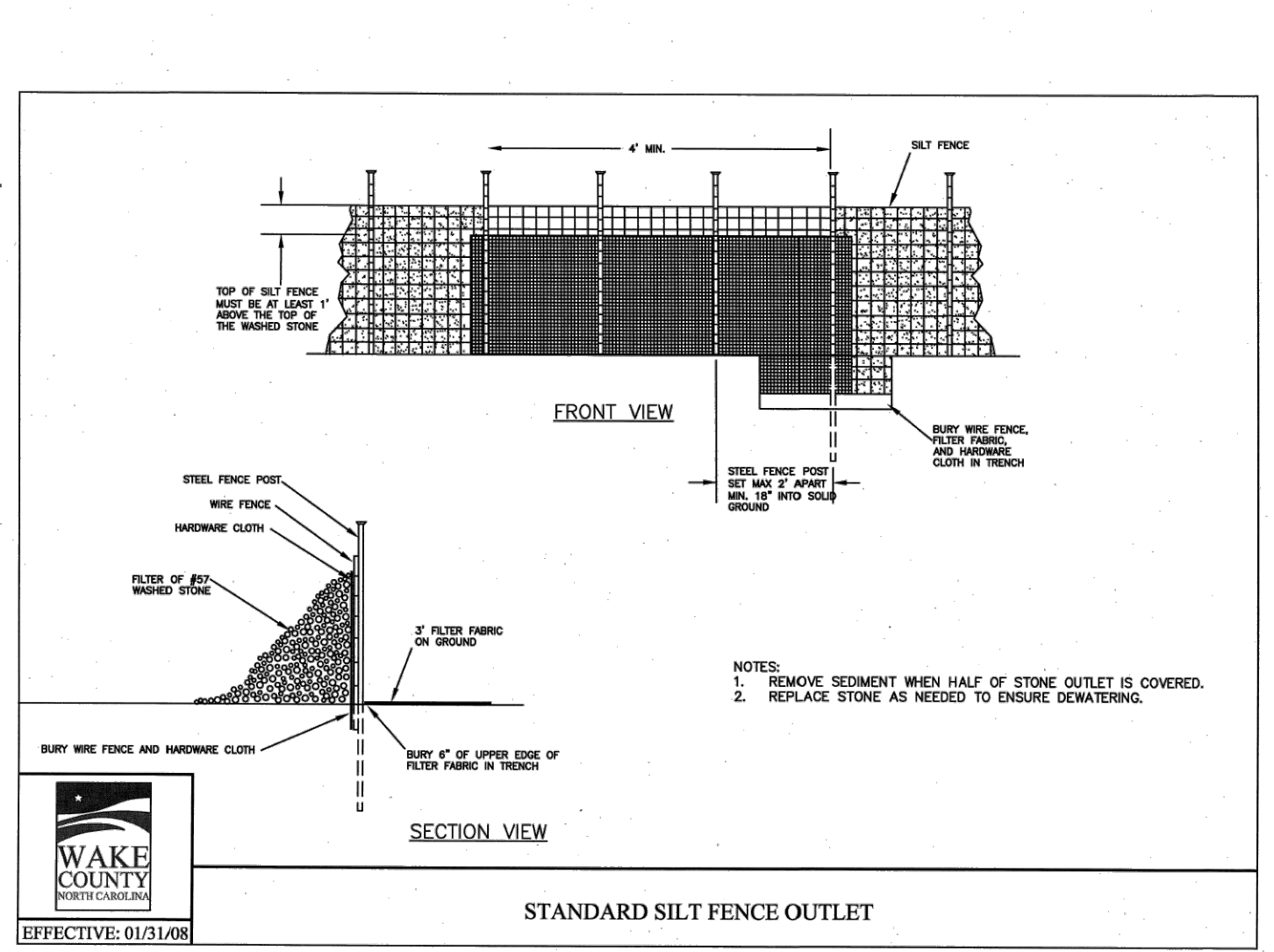
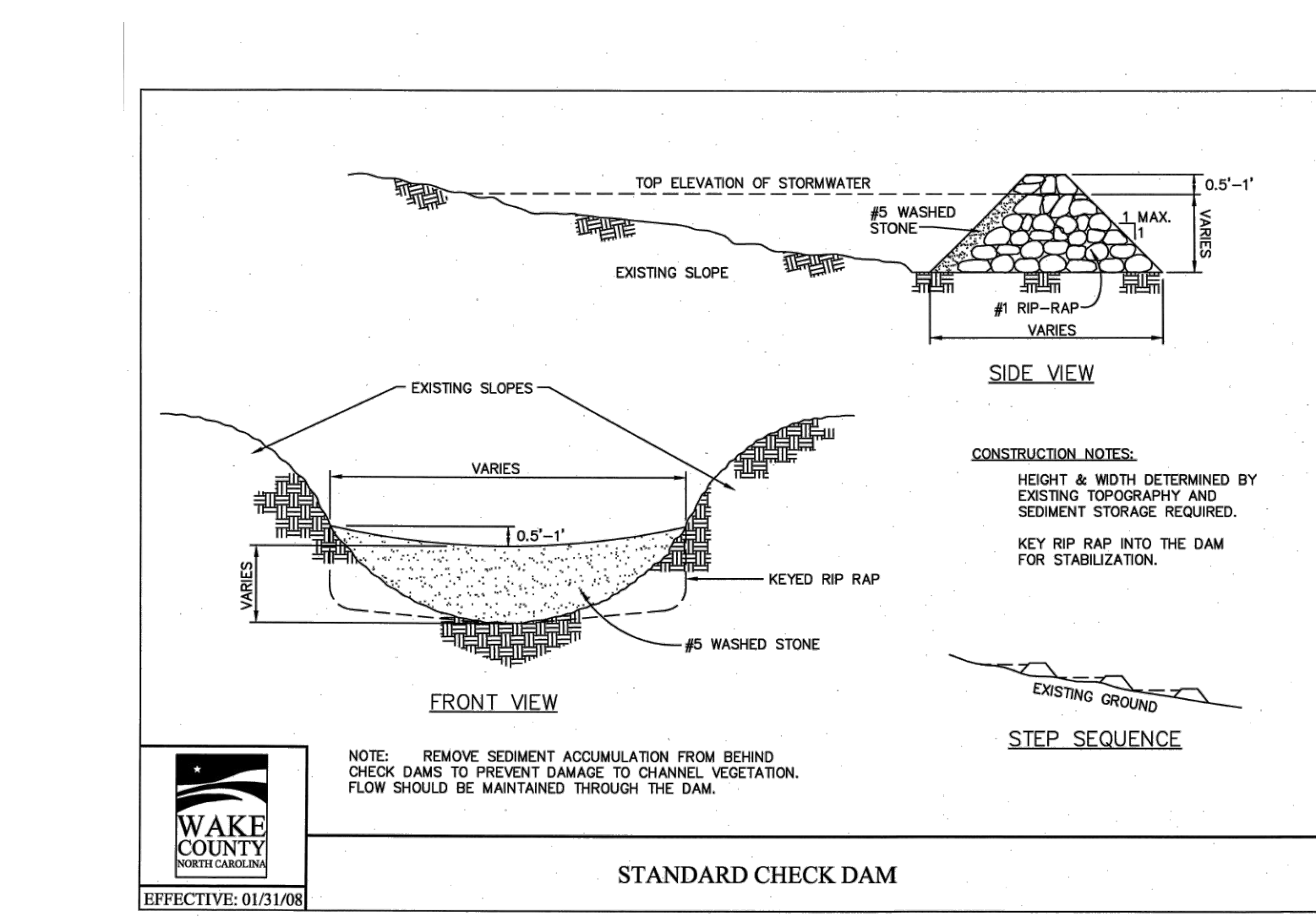
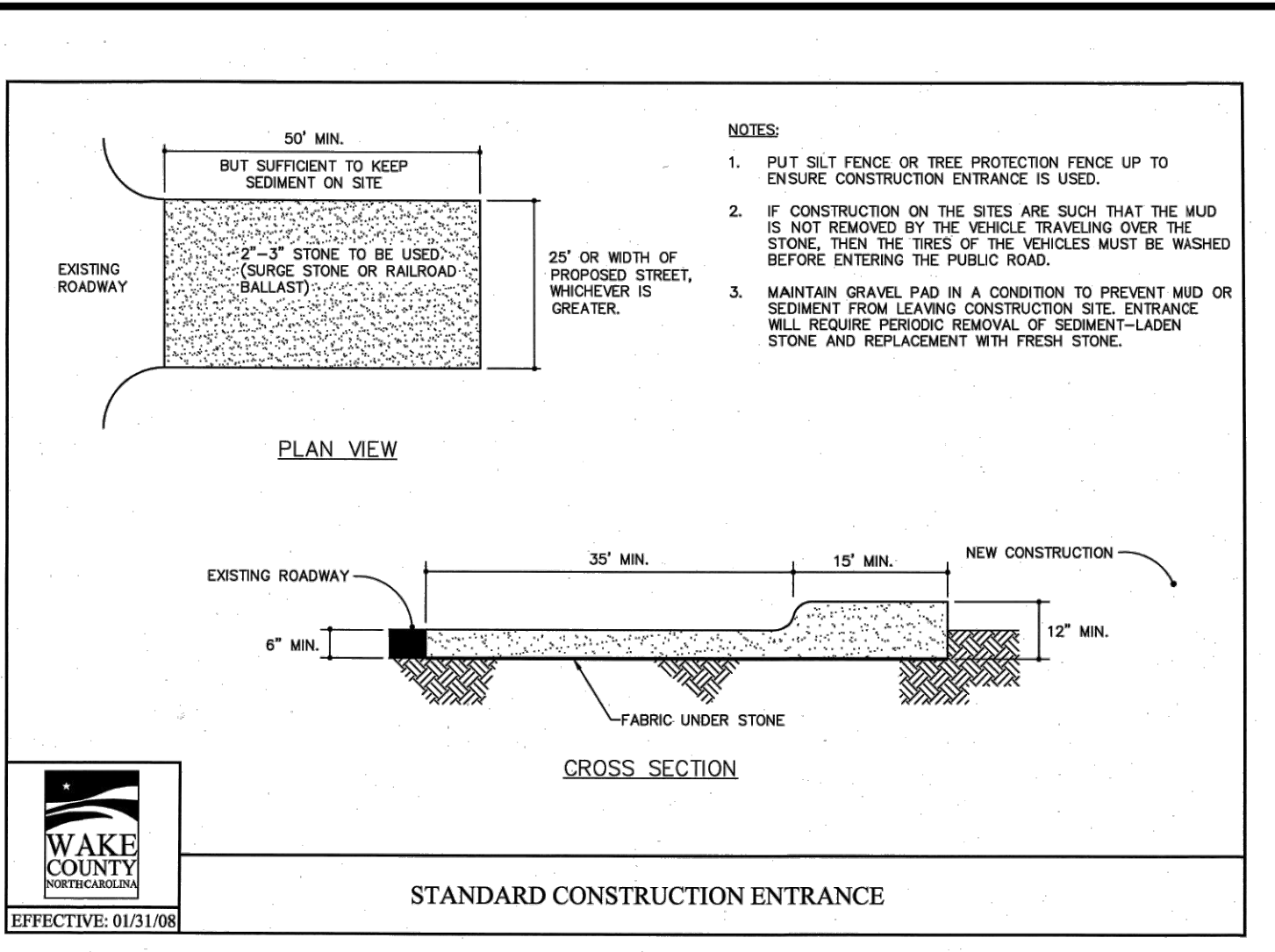
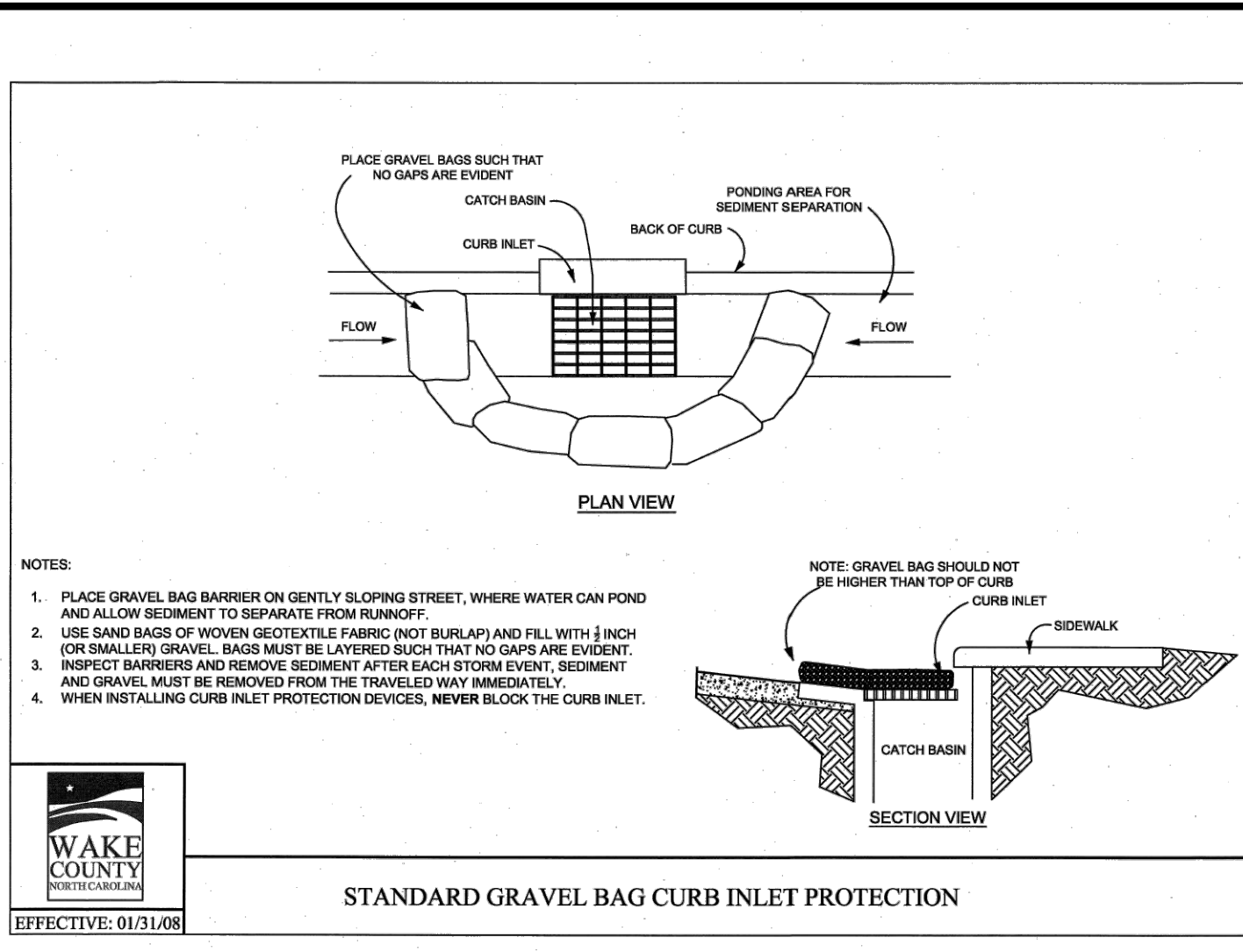
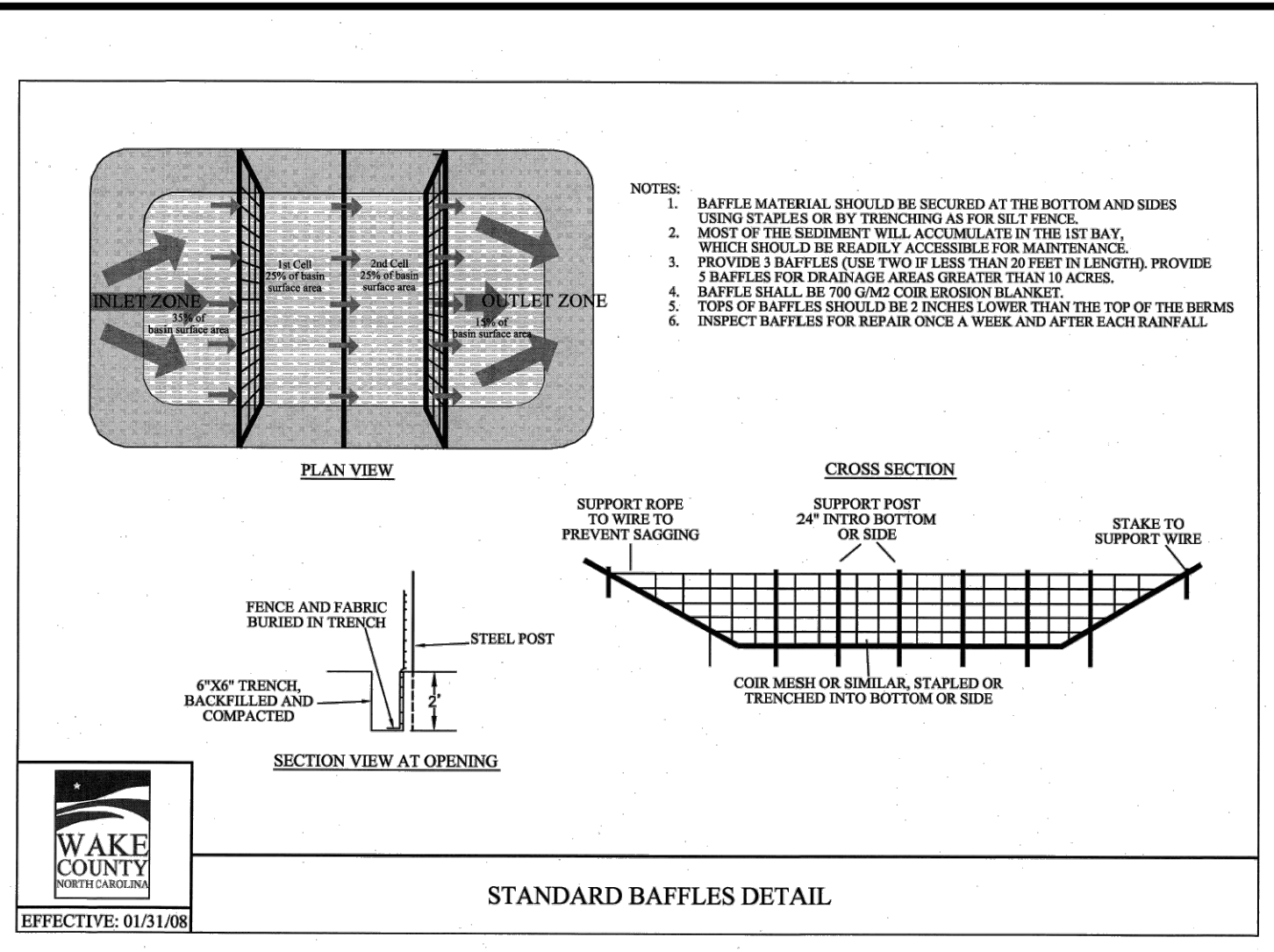
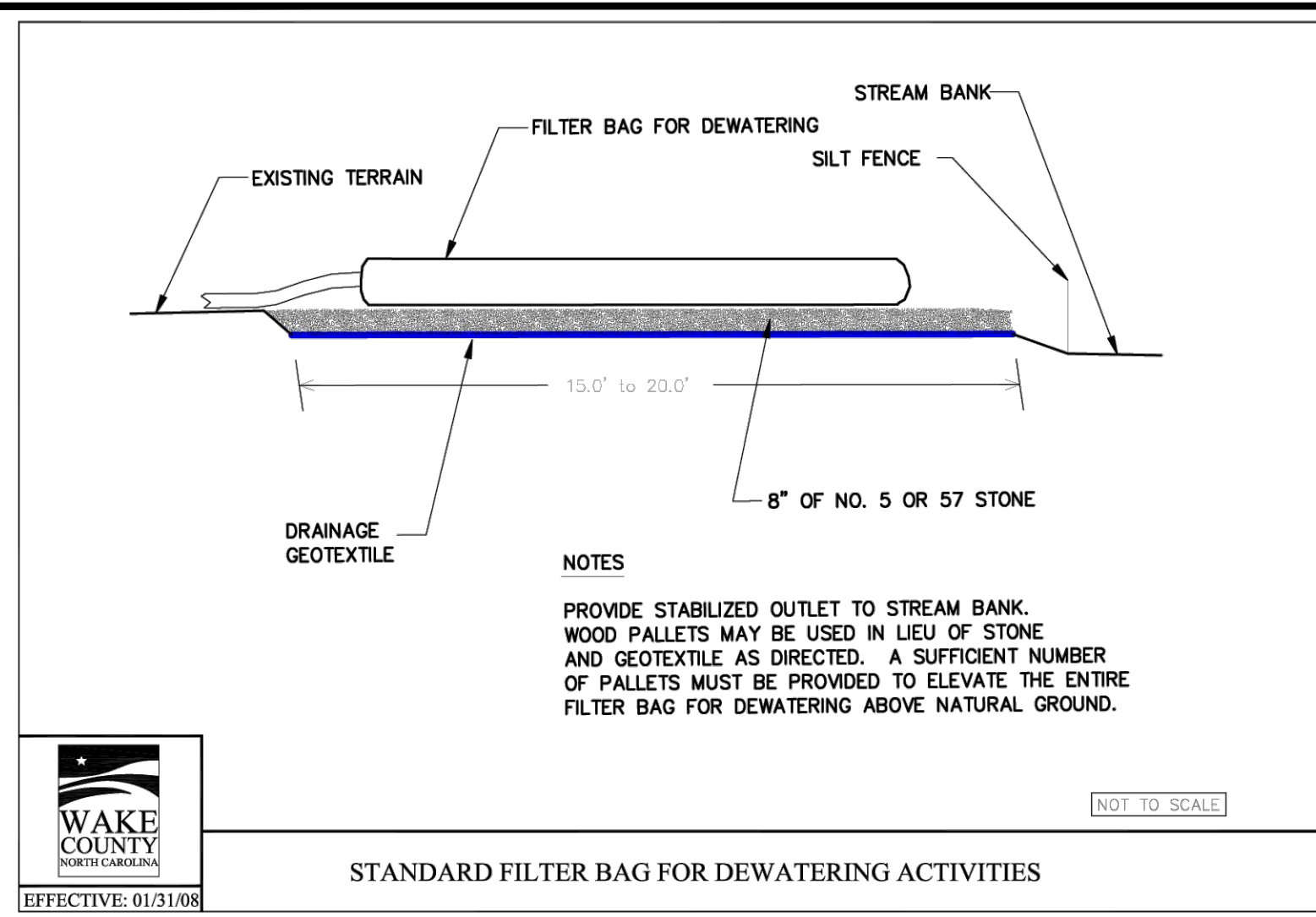
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NC License: PA 129

Professional Engineer
31970
J. C. FABRIZIO
9/19/2024

Project Manager: BCF
Drawn By: DLT/GN
Checked By: TGN
Project Number: 22049
Drawing Number: D-1404-CID

C1.4
Date: May 1, 2023



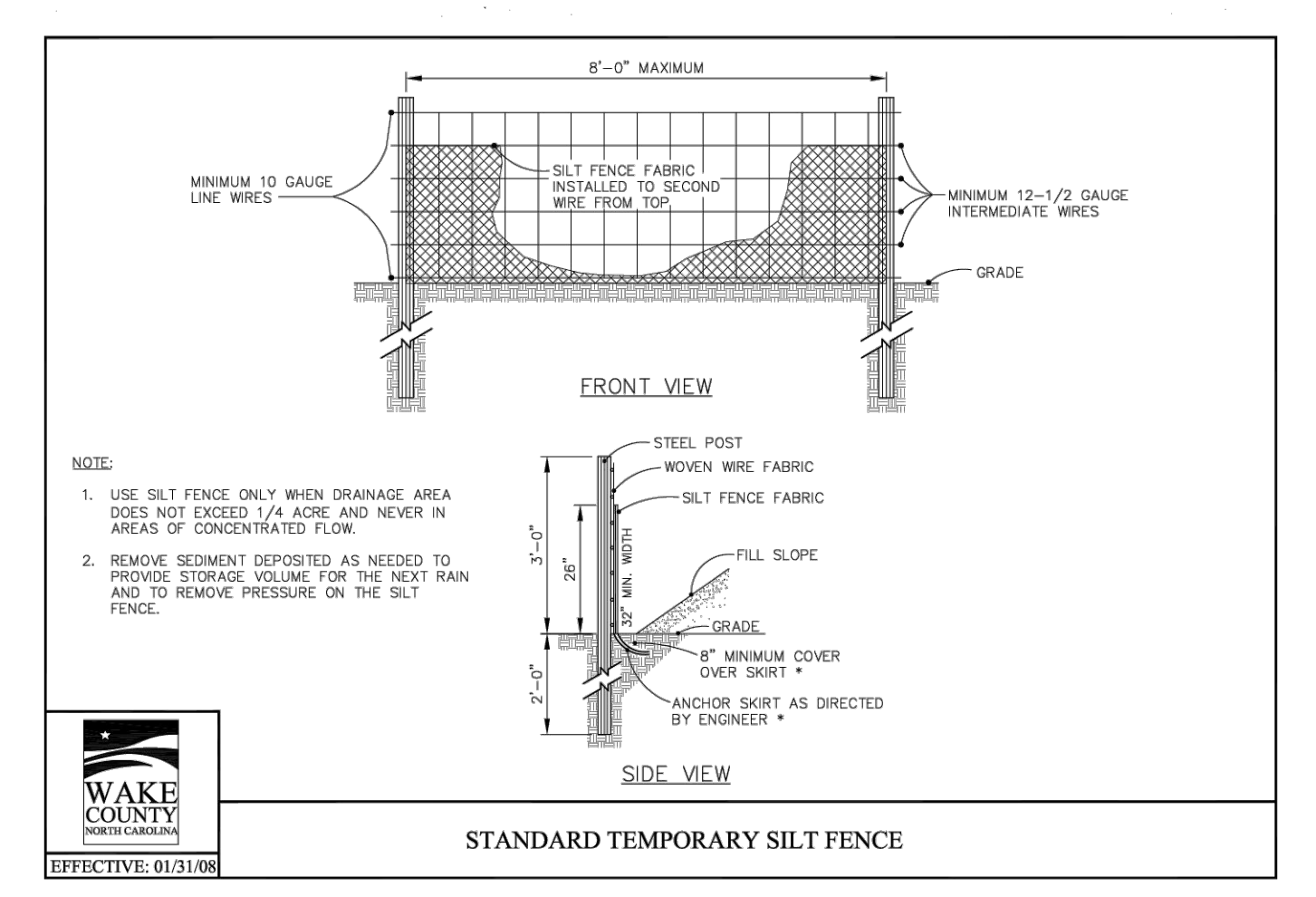
Temporary Sediment Traps, Skimmer Sediment Basins, and Temporary Sediment Basins

| Device | Type | Weir Flow | | Depth | Depth Below Weir | Side Slope | Top Length | Top Width | Skimmer Orifice | |
|--------|------------------------|-----------|------|-------|------------------|------------|------------|-----------|-----------------|------|
| | | (ft) | (ft) | | | | | | | |
| SSB-1 | Skimmer Sediment Basin | 30 | 0.3 | 1.5 | 2.0 | 3.0 | 131 | 49 | 2.00 | 1.50 |

Vegetated Swale Design
 Project: Wallbrook
 Location: Rolesville, Wake County, NC

| Device ID | Device Type | Add'l Flow (cfs) | Disturbed Area (AC) | Tc (min) | Intensity (in/hr)* | Creq | Up Invert | Down Invert | Length (ft) | Base Width (ft) | Left Slope (x:1) | Right Slope (x:1) | Flow Depth (ft) | Slope Manning's n | Wetted Area (sf) | Wetted Perimeter (ft) | Hydraulic Radius (ft) | Velocity (ft/s) | Qa (cfs) | Qa>Qreq? | τ (lbs/ft ²) | Liner Type | Allowable Shear Stress, τ (lbs/ft ²) | | |
|-----------|---------------------|------------------|---------------------|----------|--------------------|------|-----------|-------------|-------------|-----------------|------------------|-------------------|-----------------|-------------------|------------------|-----------------------|-----------------------|-----------------|----------|----------|--------------------------|------------|--|-----------------------------|------|
| | | | | | | | | | | | | | | | | | | | | | | | | τ (lbs/ft ²) | |
| TDD-3 | Temporary Diversion | 0 | 3.50 | 5 | 7.18 | 0.5 | 12.57 | 394 | 385 | 915 | 1 | 3 | 3 | 2.41 | 0.020 | 0.00984 | 19.81 | 8.69 | 2.28 | 0.63 | 12.57 | Yes | 1.478104695 | N. Am. Green; Straw; 1 nets | 1.55 |

*NOAA Atlas 14, NEUSE 2 NE Station, 10-yr 5-min duration intensity



- Final Drawing -
 Issued for Permit Review Purposes Only

EROSION CONTROL DETAILS

WALLBROOK ROADWAY IMPROVEMENTS
 VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
 Town of Rolesville Project No. CID 23-04
 US 401 Business / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

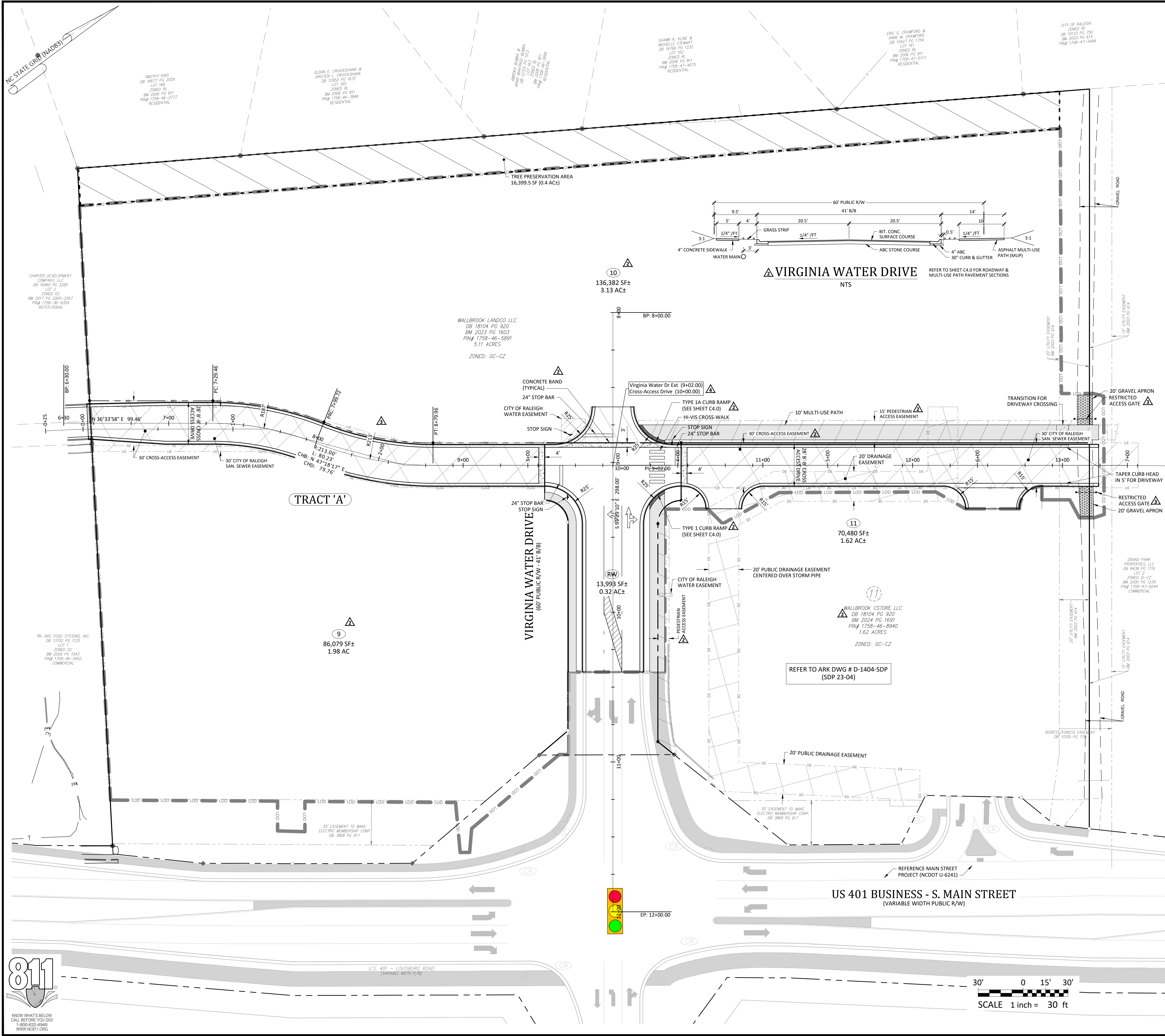
ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS
 925-A Commerce Dr.
 Cary, NC 27513-7858
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9/15/2024

Project Manager: BCF
 Drawn By: DLG/TGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C1.5

Date: May 1, 2023

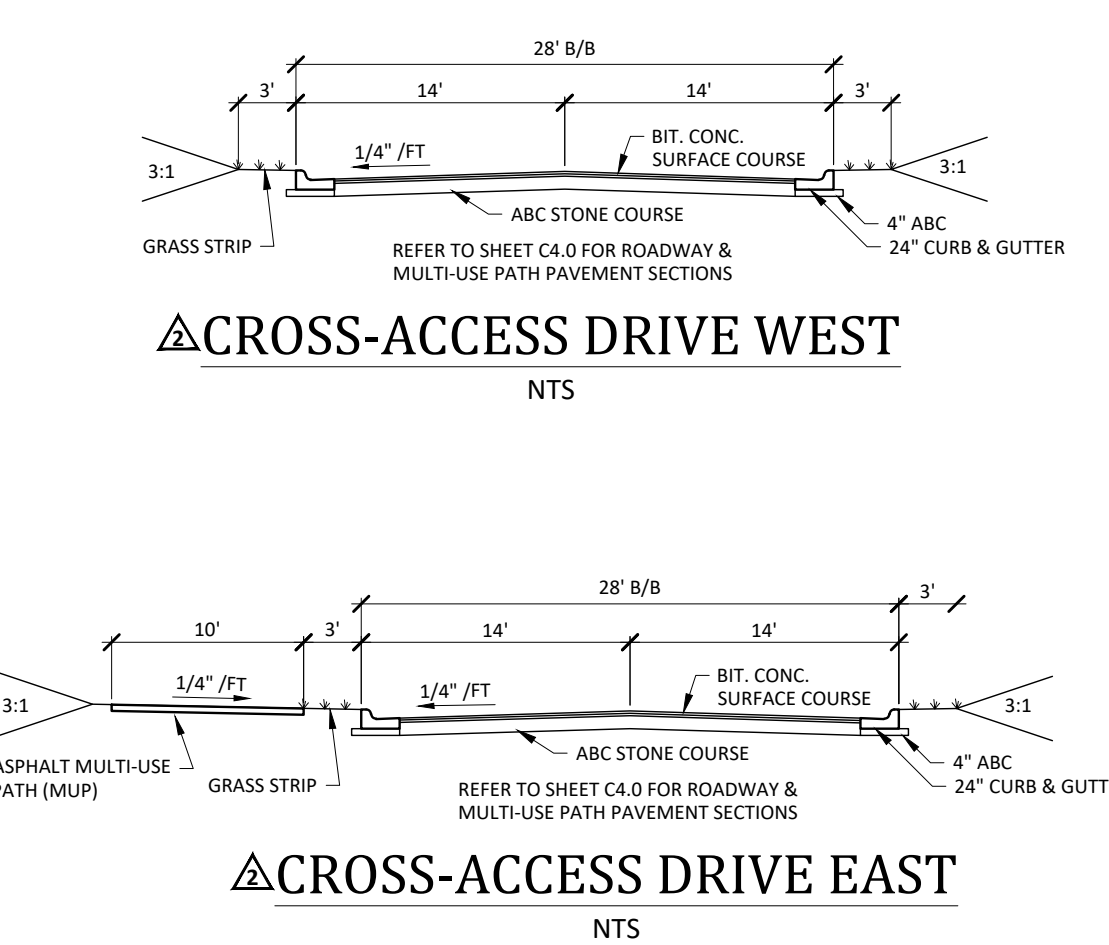


- ### General Notes:
- THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
 - ALTA/NSPS LAND TITLE SURVEY, PREPARED BY JOHNSON, MIRMIRAN & THOMPSON FOR WALLBROOK LANDCO, LLC, DATED REVISED MARCH 28, 2020
 - "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION - 7 ELEVEN AT WALLBROOK" PREPARED BY NVS ENGINEERS AND CONSULTANTS, INC., DATED JULY 11, 2022
 - "REVISED WALLBROOK DEVELOPMENT TRAFFIC IMPACT ANALYSIS" PREPARED BY STANTEC CONSULTING SERVICES, INC., DATED AUGUST 11, 2020
 - ALL ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE OR THE REQUIREMENTS OF THE JURISDICTION WHERE THIS PROJECT IS TO BE CONSTRUCTED.
 - THIS PROPERTY IS LOCATED IN FLOOD ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP (FIRM) 3720175800K, EFFECTIVE DATE: JULY 19, 2022.
 - PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
 - THE OWNER / CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT.
 - THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE PART OF THE REQUIRED CONSTRUCTION DOCUMENTS, AND, IN CASE OF CONFLICT, SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
 - THESE PLANS ARE BASED ON INFORMATION PROVIDED TO ARK CONSULTING GROUP, PLLC BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARK CONSULTING GROUP, PLLC IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER ON-SITE FEATURES.
 - ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS AND GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.
 - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL / BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY / EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
 - PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB & GUTTER. CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONNECTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
 - THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, NOR IS THE ENGINEER RESPONSIBLE FOR ANY CONFLICTS OR SCOPE REVISIONS WHICH RESULT FROM THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

Impervious Area Calculations

SITE LIMITED TO 85% IMPERVIOUS AREA AS ACCOUNTED FOR IN THE WALLBROOK STORMWATER MASTER PLAN

| | |
|--|-----------|
| PROPOSED TRANSPORTATION IMPERVIOUS AREA: | 9,583 SF |
| PROPOSED TOTAL IMPERVIOUS AREA: | 9,583 SF |
| TOTAL SITE AREA: | 13,993 SF |
| ALLOWABLE IMPERVIOUS AREA (85%): | 11,894 SF |
| PROPOSED IMPERVIOUS PERCENTAGE: | 68.48 % |



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U.S. 401 - LOUISBURG ROAD
(VARIABLE WIDTH R/W)

SCALE 1 inch = 30 ft

- Final Drawing -
Issued for Permit
Review Purposes Only

CROSLAND SOUTHEAST

LAYOUT & SIGNAGE-STRIPING PLAN
WALLBROOK ROADWAY IMPROVEMENTS
VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
 Town of Rolesville Project No. CID 23-04
 US 401 Business / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

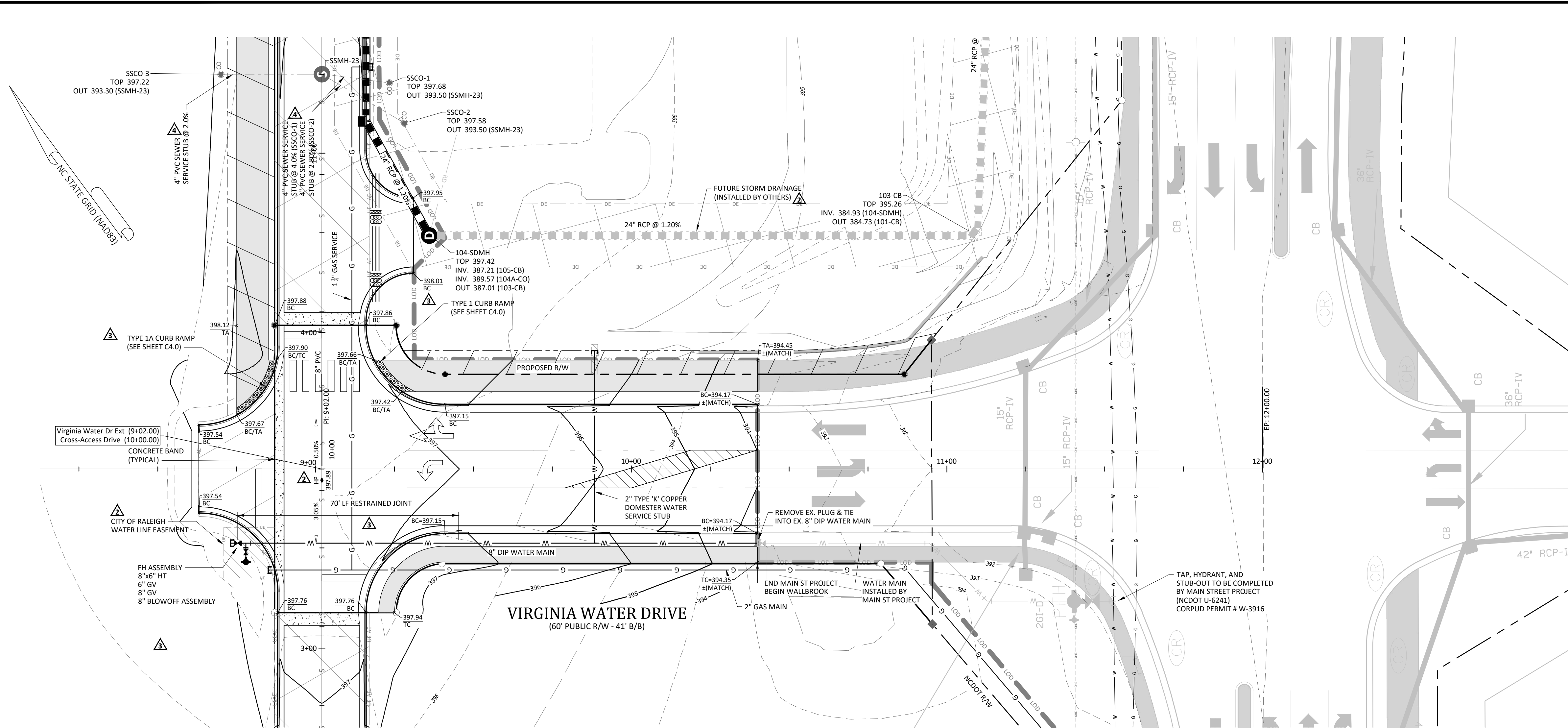
ARK CONSULTING GROUP, PLLC
 ENGINEERS & PLANNERS
 925-A Conference Dr.
 Wake Forest, NC 27586
 (757) 558-8888
 www.arkconsultinggroup.com

PROFESSIONAL ENGINEER
 N. C. STATE BOARD OF EXAMINERS
 EXPIRES 9/15/2024

Project Manager: BCF
 Drawn By: DLC/TGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C2.0

Date: May 1, 2023



Grading Notes:

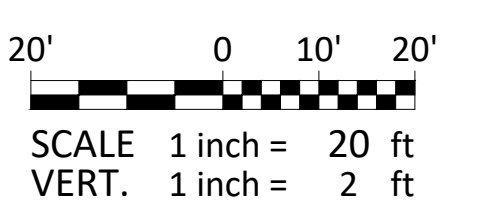
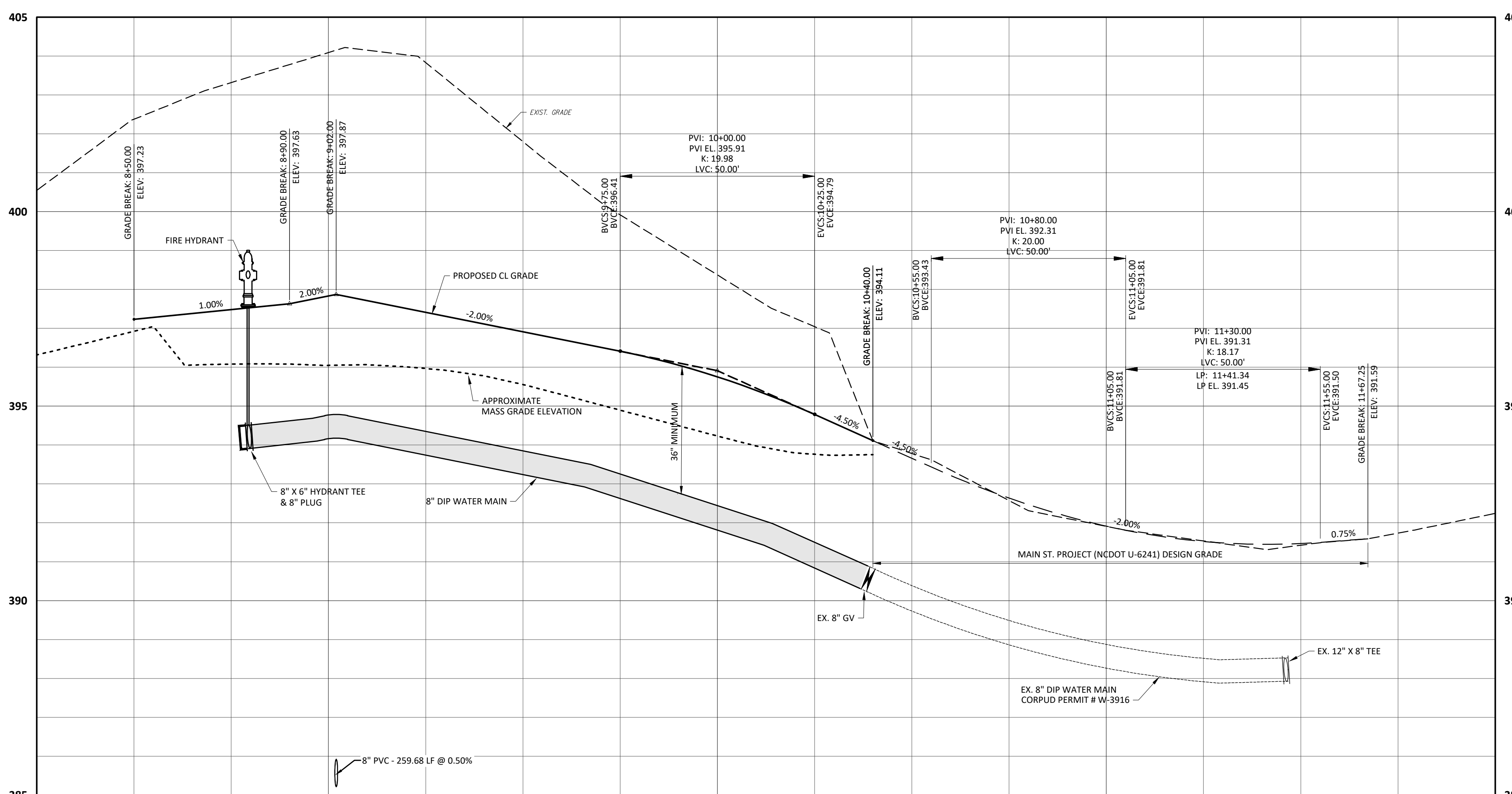
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET.
- SITE CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM BUILDING TO PROPERTY LINES AND TO EDGE OF PAVEMENT ON STREET SIDES, INCLUDING ROW.
- TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.
- TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.
- TILL TOP SOIL TO A DEPTH OF 4" MINIMUM AND REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION.
- GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
- ALL GRADED AREAS TO RECEIVE SEED OR SO, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL.
- REFER TO CIVIL DETAILS FOR PAVEMENT IN PARKING AND DRIVE AREAS.
- ALL SIDEWALKS SHALL BE CONSTRUCTED OF 3,500 PSI CONCRETE AND SHALL HAVE TOOLED CONTROL JOINTS PER THE JOINT SPACING REFERENCED ON THE PLAN.
- MATERIALS SELECTED FOR USE AS STRUCTURAL FILL SHALL BE FREE OF VEGETABLE MATTER, WASTE CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS MATERIALS. THE MATERIAL SHALL NOT CONTAIN ROCKS HAVING A DIAMETER OVER 3 INCHES.
- SOILS REPRESENTED BY THEIR USCS GROUP SYMBOLS WILL TYPICALLY BE SUITABLE FOR USE AS STRUCTURAL FILL (ML), (CL), (SM), AND (SC).
- THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' OF LOW PERMEABILITY SOILS CAN BE USED AS COVER: (SW), (SP), (SP-SM), AND (SP-SC).
- THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' OF NON-EXPANSIVE SOILS CAN BE USED AS COVER: (MH) AND (CH).
- THE FOLLOWING SOIL TYPES ARE CONSIDERED UNSUITABLE: (OL), (OH), AND (Pt).
- ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). ADDITIONALLY, THE IN-PLACE MAXIMUM DRY DENSITY OF STRUCTURAL FILL SHOULD BE NO LESS THAN 90 PCF.
- THE UPPER 12" OF BUILDING FLOOR SLAB SUBGRADES SHALL BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
- FILL PLACEMENT IN PAVEMENT AREAS SHALL BE PERFORMED IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS.
- SUITABLE FILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND COMPACTED BY MECHANICAL MEANS. PROOFROLLING WITH RUBBER TIRE, HEAVILY LOADED VEHICLES MAY BE DESIRABLE AT INTERVALS OF APPROXIMATELY 2 VERTICAL FEET TO BIND THE LIFTS TOGETHER AND TO SEAL THE SURFACE OF EACH COMPACTED AREA.
- ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED THROUGHOUT FILL PLACEMENT OPERATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.
- WHERE HORIZONTAL SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, SHALL EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED, AS REQUIRED, TO MATCH PROPOSED GRADES.
- SITE CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR OFF-SITE MATERIAL SOURCES OR DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO OWNER PRIOR TO INITIATING WORK.
- UNLESS INDICATED OTHERWISE, ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SOIL TIGHT JOINTS.
- SITE CONTRACTOR SHALL INSTALL BUILDING ROOF DRAINS TO WITHIN 2' OF THE BUILDING EXTERIOR WALL, CAP AND PROVIDE ABOVE GROUND MARKER FOR LOCATION PURPOSES. GENERAL CONTRACTOR IS RESPONSIBLE FOR TIE-INS OF BUILDING DOWNSPOUTS TO SITE ROOF DRAINAGE PIPING.

CORPUD Standard Utility Notes:

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK)
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR OR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATER SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5' MINIMUM SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & 5-49).
 - 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 CORPUD PRIOR TO CONSTRUCTION.
- 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 CORPUD.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- 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 CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- INSTALL PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2' X 2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
- INSTALL PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 FEET MAXIMUM.
- 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.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWR, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS PRIOR TO CONSTRUCTION.
- NCDOT /RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- 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 NC. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

ATTENTION CONTRACTORS
 The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.
 Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstatement of any water or sewer facilities not inspected as a result of this notification failure.
 Failure to plan for inspection, install a Downstream Plug, have Permitted calls on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

SITE PERMITTING APPROVAL
 Water and Sewer Permits (if applicable)
 The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S-_____
 The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W-_____
 The City of Raleigh consents to the connection to its public sewer system and extensions of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W-_____
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
 Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.
 Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be relied upon once issued. Any modification to this approval once issued will invalidate this approval.
 City of Raleigh Development Approval: _____
 City of Raleigh Review Officer: _____



-Final Drawing - Issued for Permit Review Purposes Only

REVISIONS:

| # | DATE | DESCRIPTION |
|---|----------|-------------------------------------|
| 1 | 11/04/23 | ISSUED FOR PERMIT REVIEW |
| 2 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |
| 3 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |
| 4 | 12/04/24 | REVISED PER REVIEW & OWNER COMMENTS |
| 5 | 12/04/24 | REVISED PER REVIEW & OWNER COMMENTS |

CROSLAND SOUTHEAST

VIRGINIA WATER DRIVE EXT - PLAN PROFILE

WALLBROOK ROADWAY IMPROVEMENTS

VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)

Town of Rolesville Project No. CID 23-04
 US 401 Rolesville / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS
 935-A Conference Dr.
 Raleigh, NC 27606
 (919) 558-0888
 www.arkconsultinggroup.com

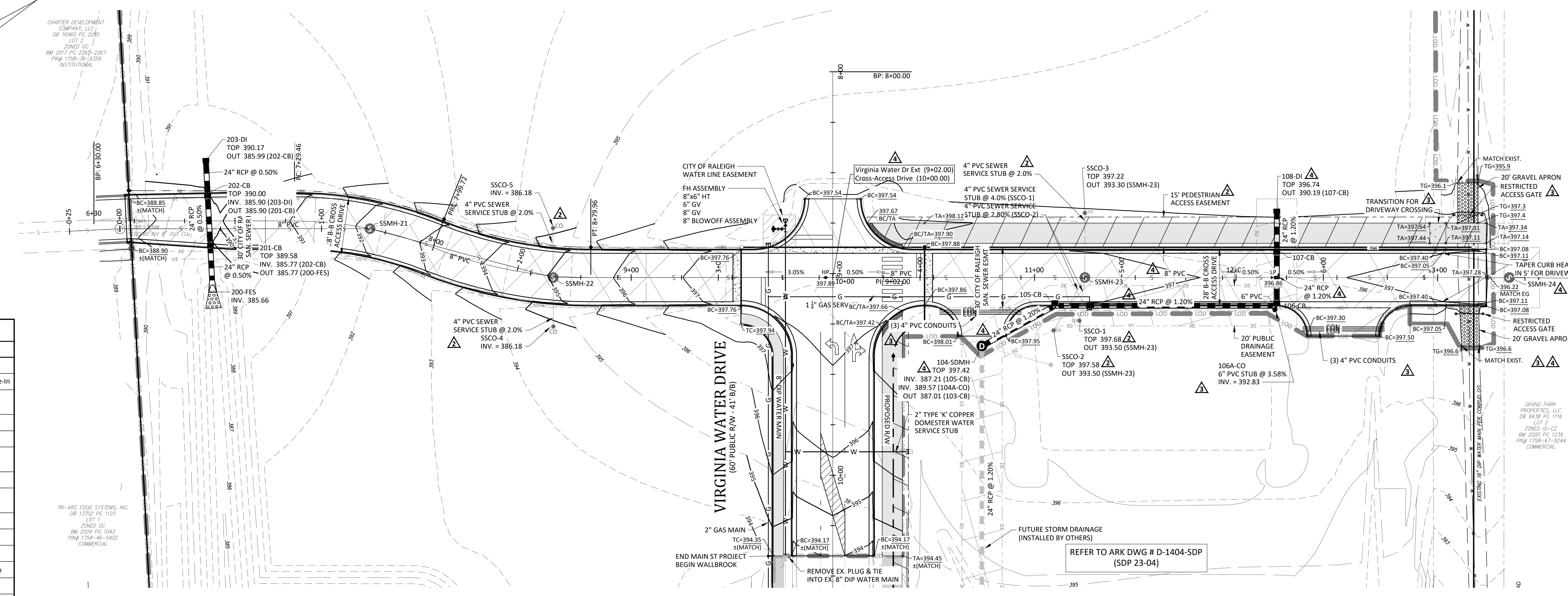
Professional Engineer Seal: JOHN C. FAGUNDY, No. 31970, State of North Carolina, expires 12/31/2024.

Project Manager: BCF
 Drawn By: DLCTGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C3.0

Date: May 1, 2023

CHARTER DEVELOPMENT COMPANY, LLC
 DB 16901 PG 2285
 LOT 1
 ZONED GC
 BM 2007 PC 2005-2287
 P/M 1758-56-9359
 INDUSTRIAL



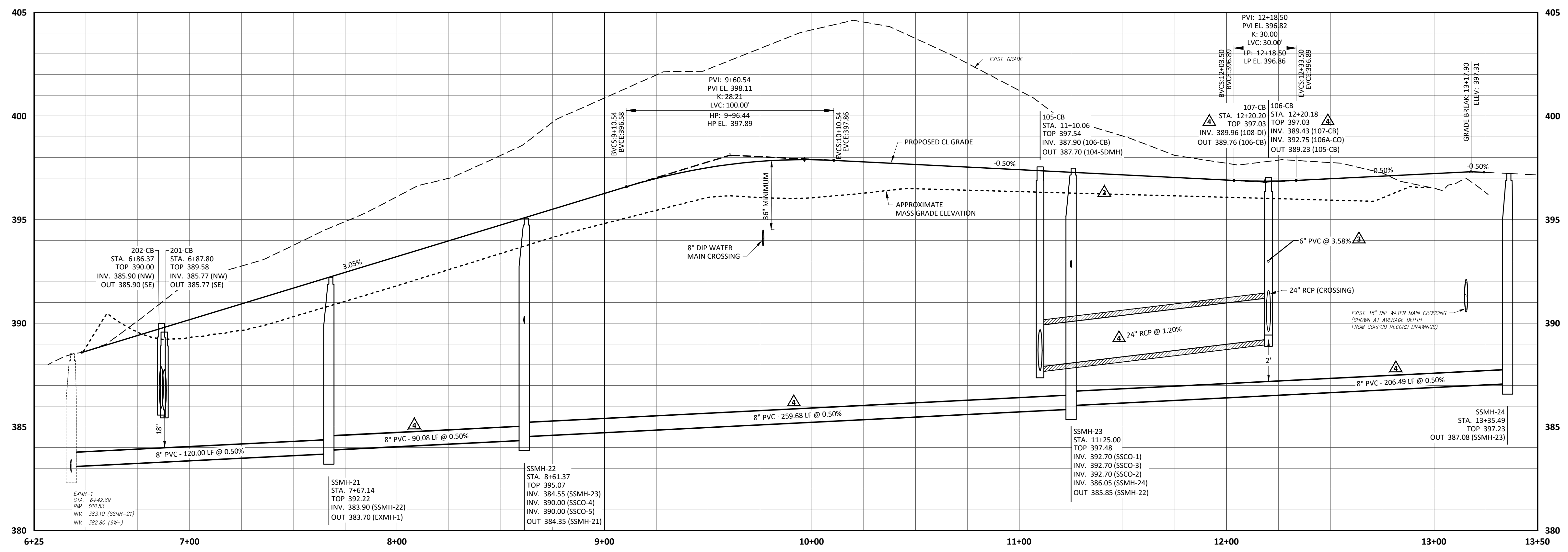
| STRUCTURE TABLE | | | | |
|------------------|--------|-------------------------------------|---------------------------|-----------------------|
| ID | TOP | IN | OUT | DESC |
| 100-DI | 390.70 | | | Drop Inlet |
| 100A-NC DOT STUB | 385.95 | 383.00 (101-CB) | | U-6241 Project Tie-In |
| 101-CB | 394.11 | 385.27 (103-CB) 390.32 (102-CB) | 383.07 (100A-NC DOT STUB) | Catch Basin |
| 102-CB | 393.73 | | 390.90 (101-CB) | Catch Basin |
| 103-CB | 395.26 | 384.93 (104-SDMH) | 384.73 (101-CB) | Catch Basin |
| 104-SDMH | 397.42 | 387.21 (105-CB) 389.57 (104A-CO) | 387.01 (103-CB) | 48 in MH |
| 105-CB | 397.54 | 387.90 (106-CB) | 387.70 (104-SDMH) | Catch Basin |
| 106-CB | 397.03 | 389.43 (107-CB) 392.75 (106A-CO) | 389.23 (105-CB) | Catch Basin |
| 106A-CO | 397.17 | | 392.83 (106-CB) | CO |
| 107-CB | 397.03 | 389.96 (108-DI) | 389.76 (106-CB) | Catch Basin |
| 108-DI | 396.74 | | 390.19 (107-CB) | Drop Inlet |
| 200-FES | 387.99 | 385.66 (201-CB) | | Flared End Section |
| 201-CB | 389.58 | 385.77 (202-CB) | 385.77 (200-FES) | Catch Basin |
| 202-CB | 390.00 | 385.90 (203-DI) | 385.90 (201-CB) | Catch Basin |
| 203-DI | 390.17 | | 385.99 (202-CB) | Drop Inlet |

CRITICAL WATER TRANSMISSION MAIN NOTES

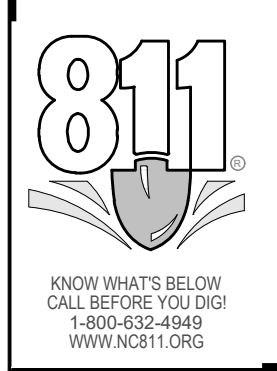
- RALEIGH WATER STAFF MUST BE ON-SITE WHILE ANY CONSTRUCTION OCCURS IN THE VICINITY OF THE CRITICAL WATER TRANSMISSION MAIN. PLEASE EMAIL WDSERVICE-REQUEST@RALEIGHNC.GOV A MINIMUM OF 72-HOURS IN ADVANCE OF ANY WORK IN THE VICINITY OF THIS CRITICAL WATER TRANSMISSION MAIN.
- CONTRACTOR TO FIELD LOCATE CRITICAL WATER TRANSMISSION MAIN AT PROPOSED CROSSING WITH SEWER EXTENSION, AND REPORT SURVEYED LOCATION (HORIZONTAL & VERTICAL) TO ENGINEER PRIOR TO COMMENCING ANY UTILITY WORK.

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)
 The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S-
 The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W-
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 City of Raleigh Development Approval
 City of Raleigh Review Officer



30' 0 15' 30'
 SCALE 1 inch = 30 ft
 VERT. 1 inch = 3 ft



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| 6 | 12/04/24 | REVISED PER REVIEW & OWNER COMMENTS |

CROSLAND SOUTHEAST

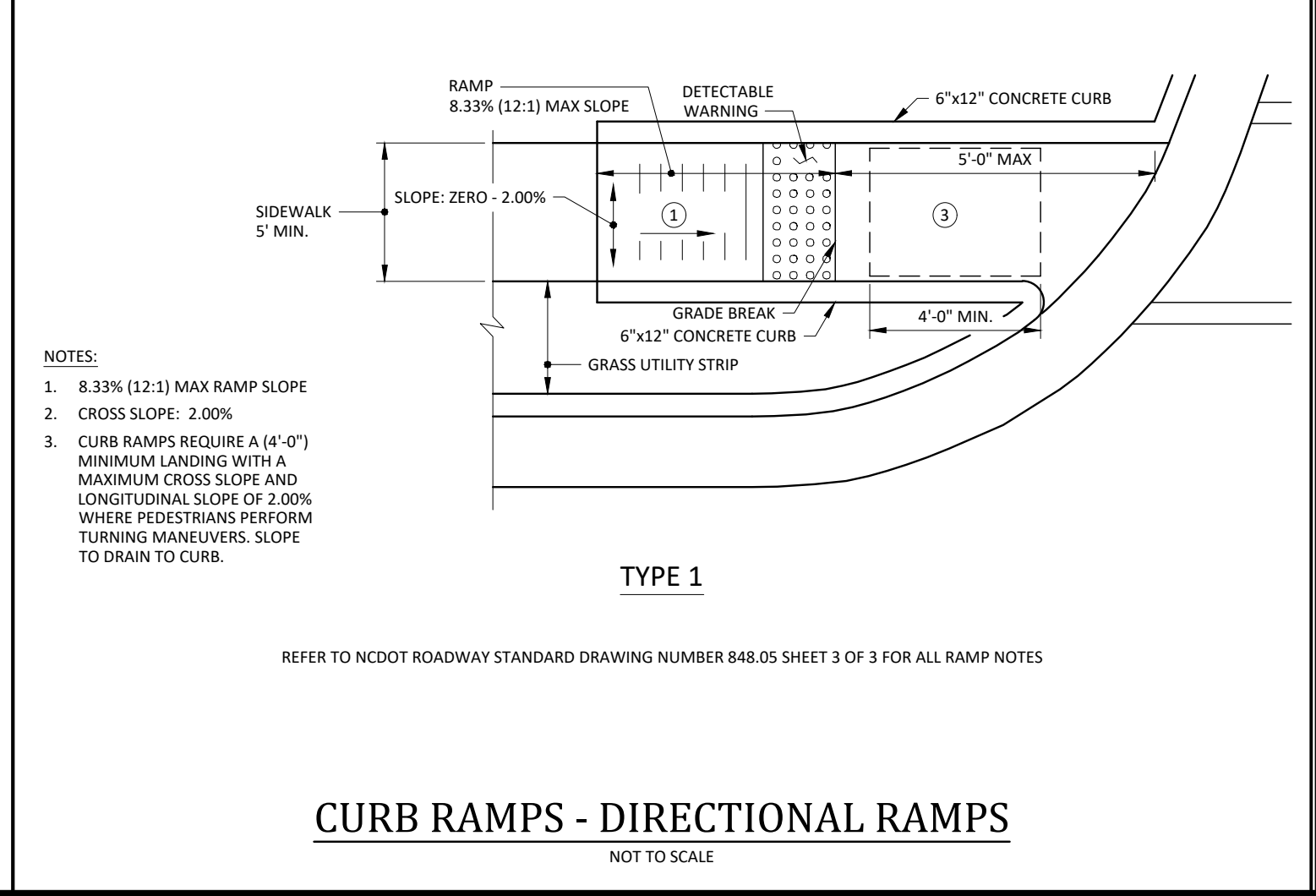
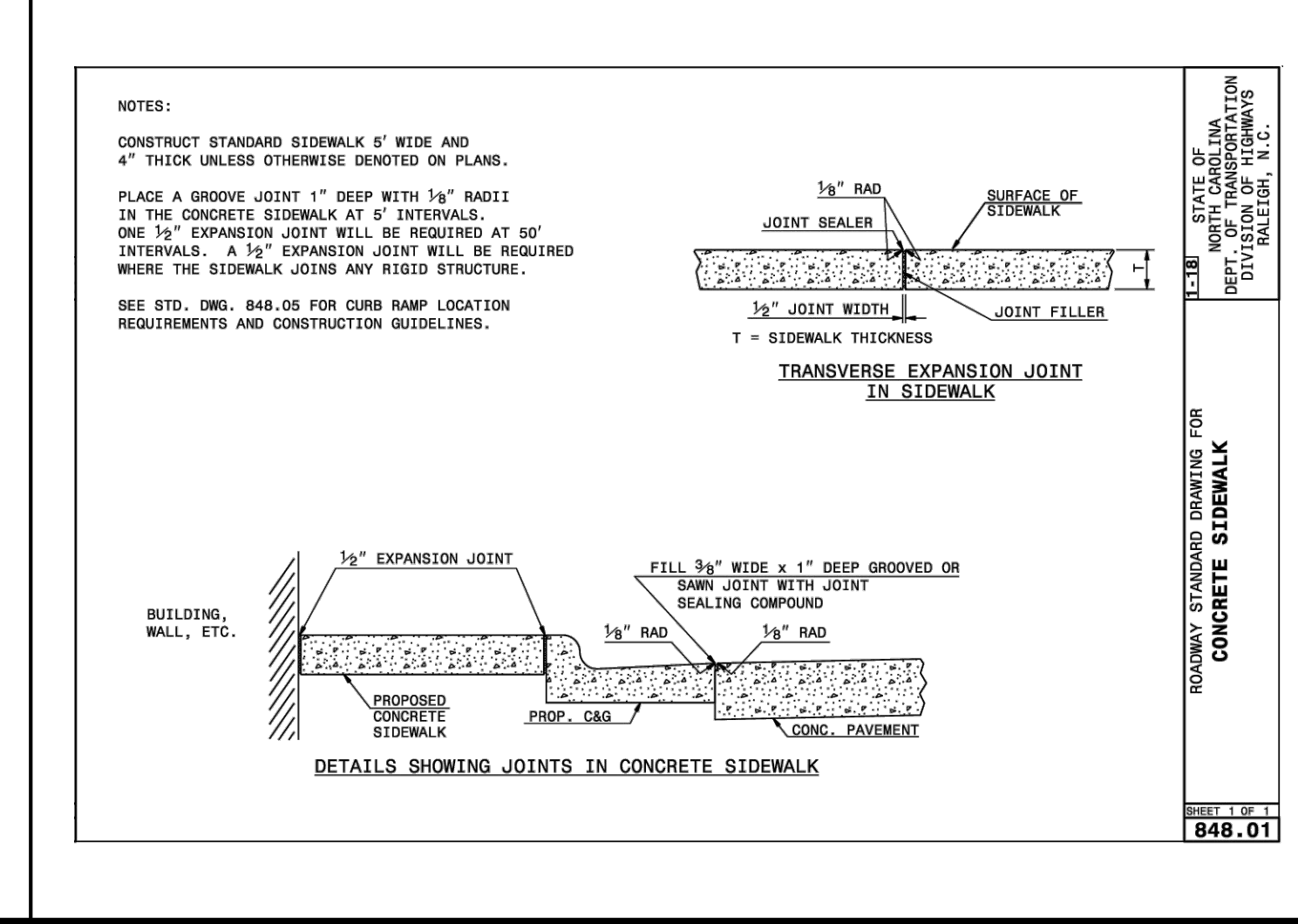
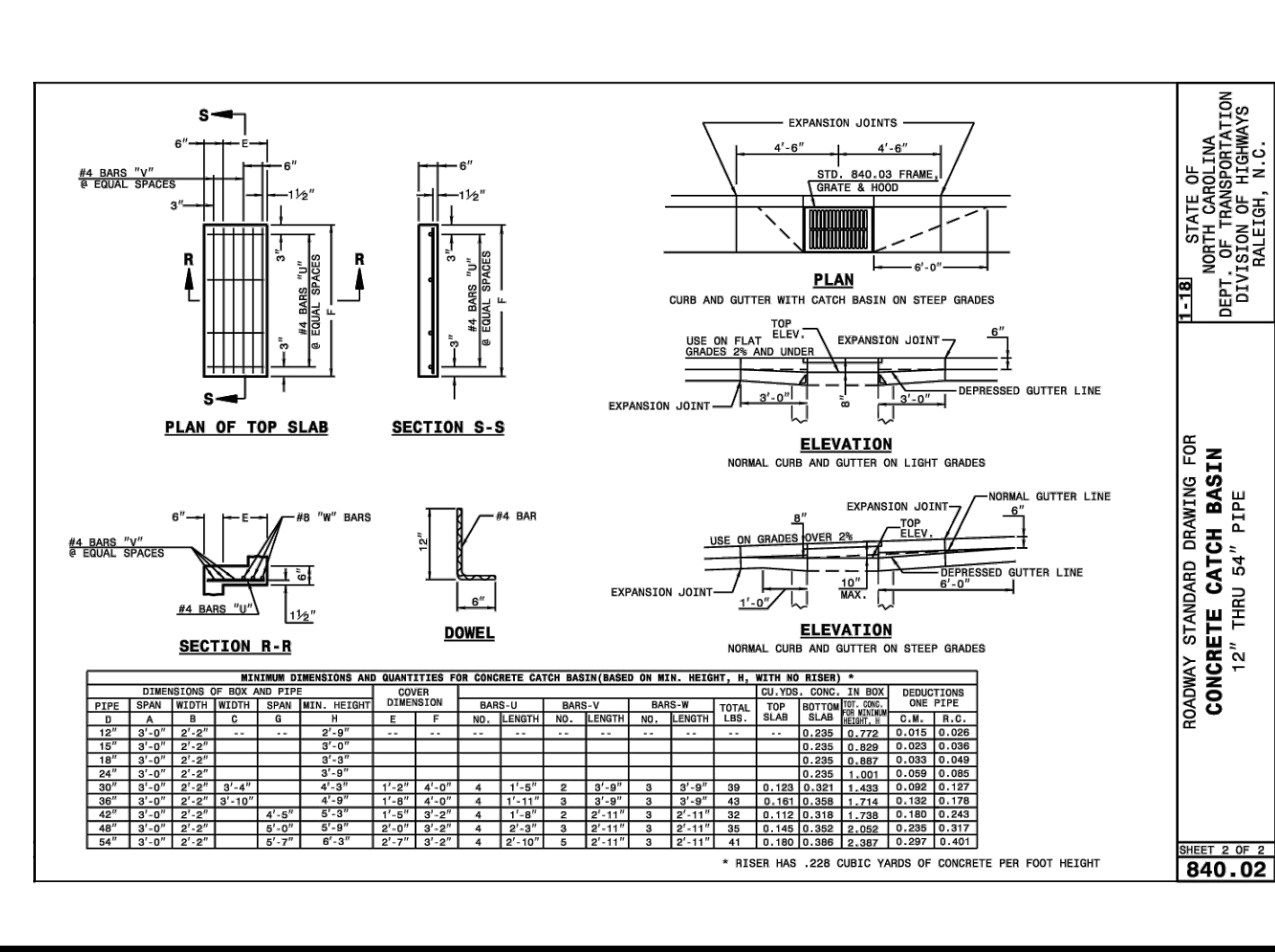
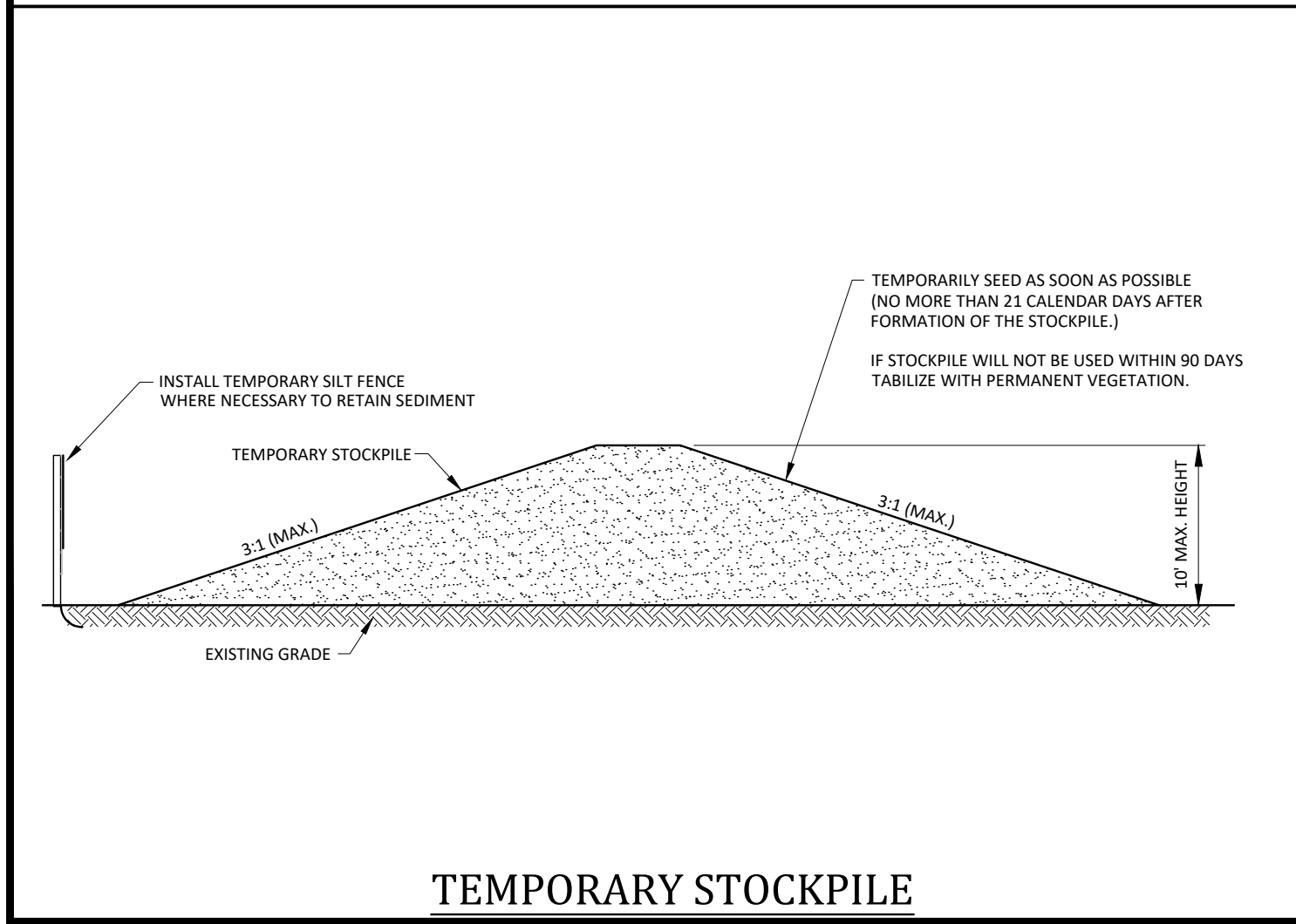
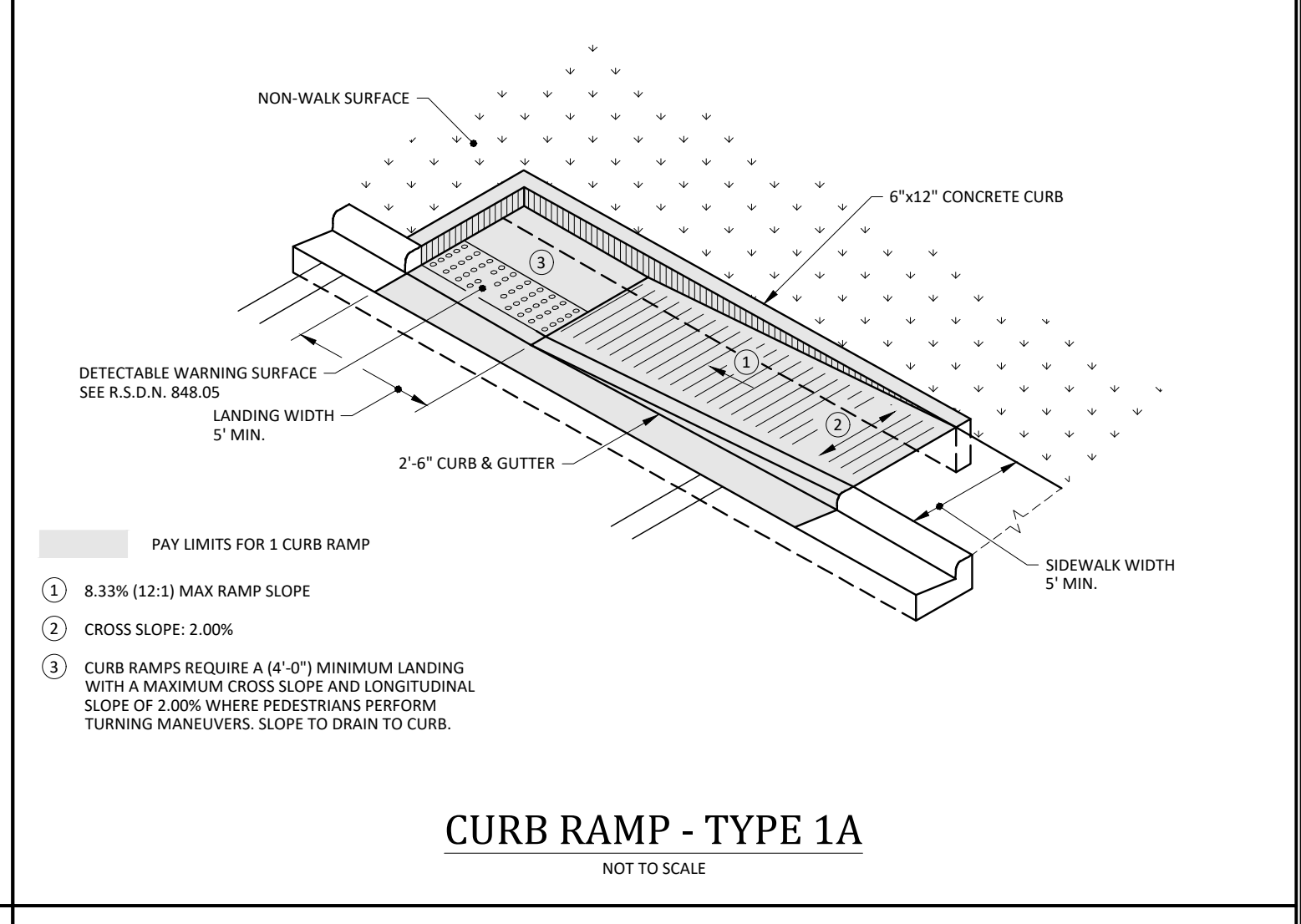
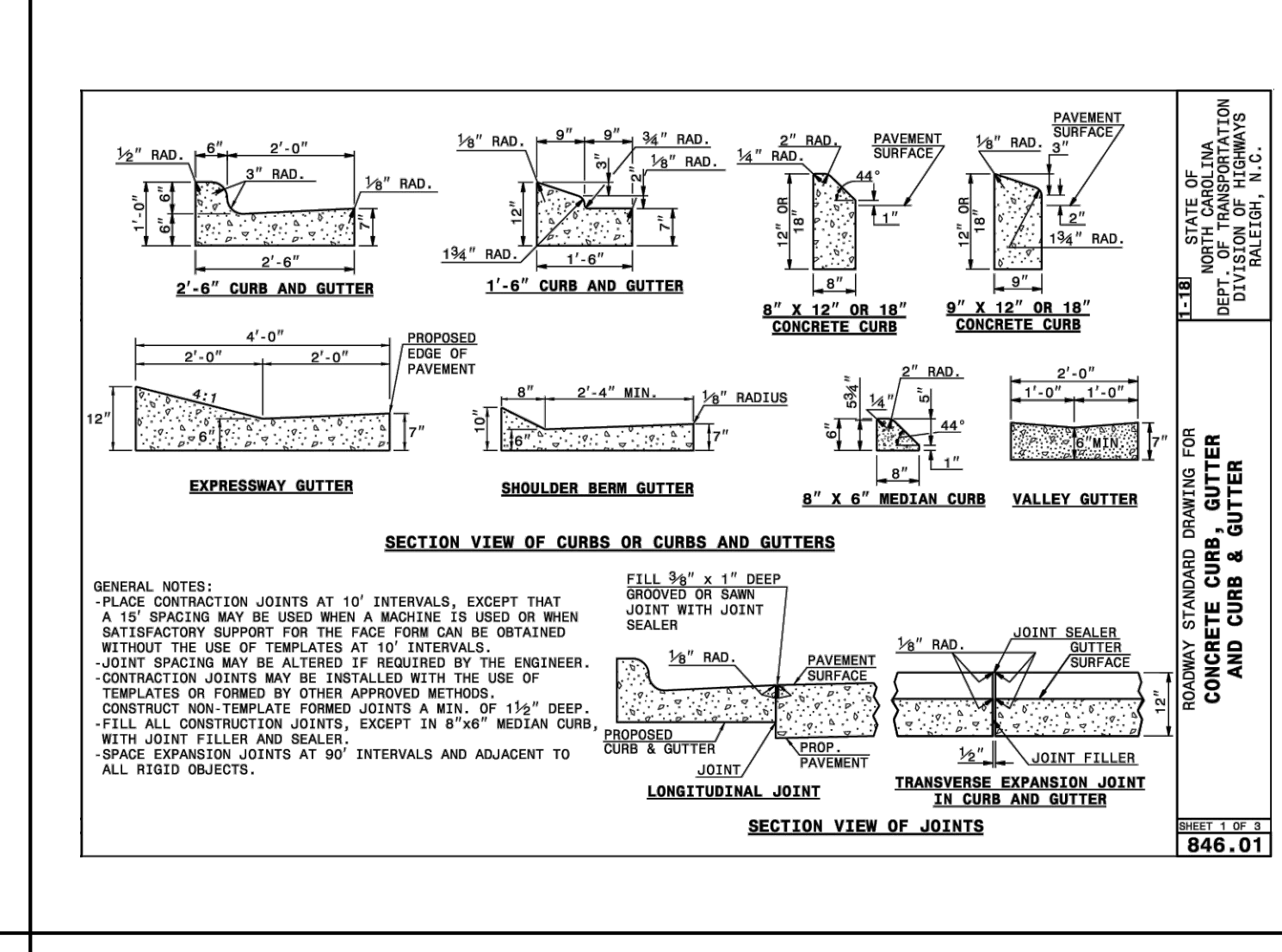
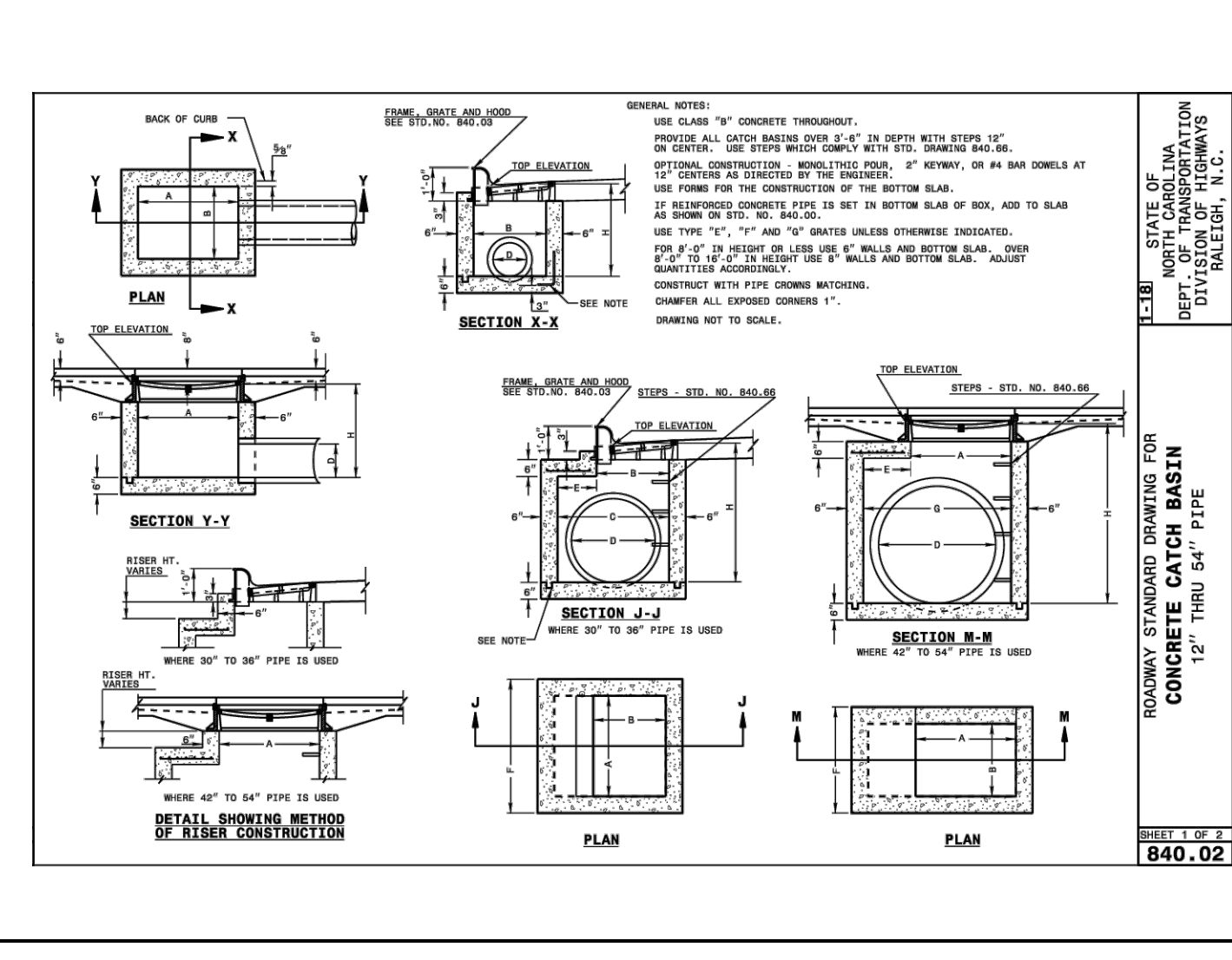
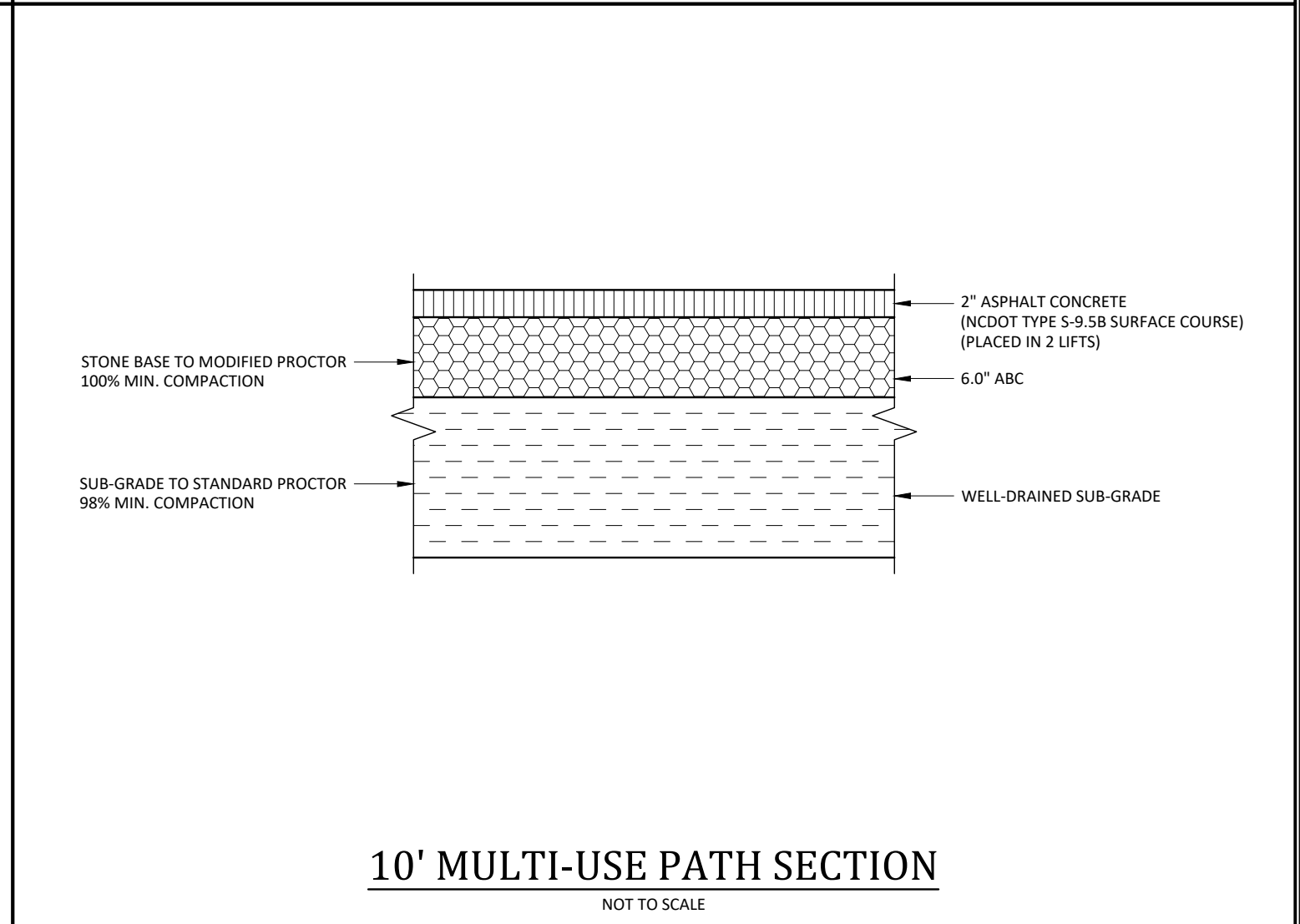
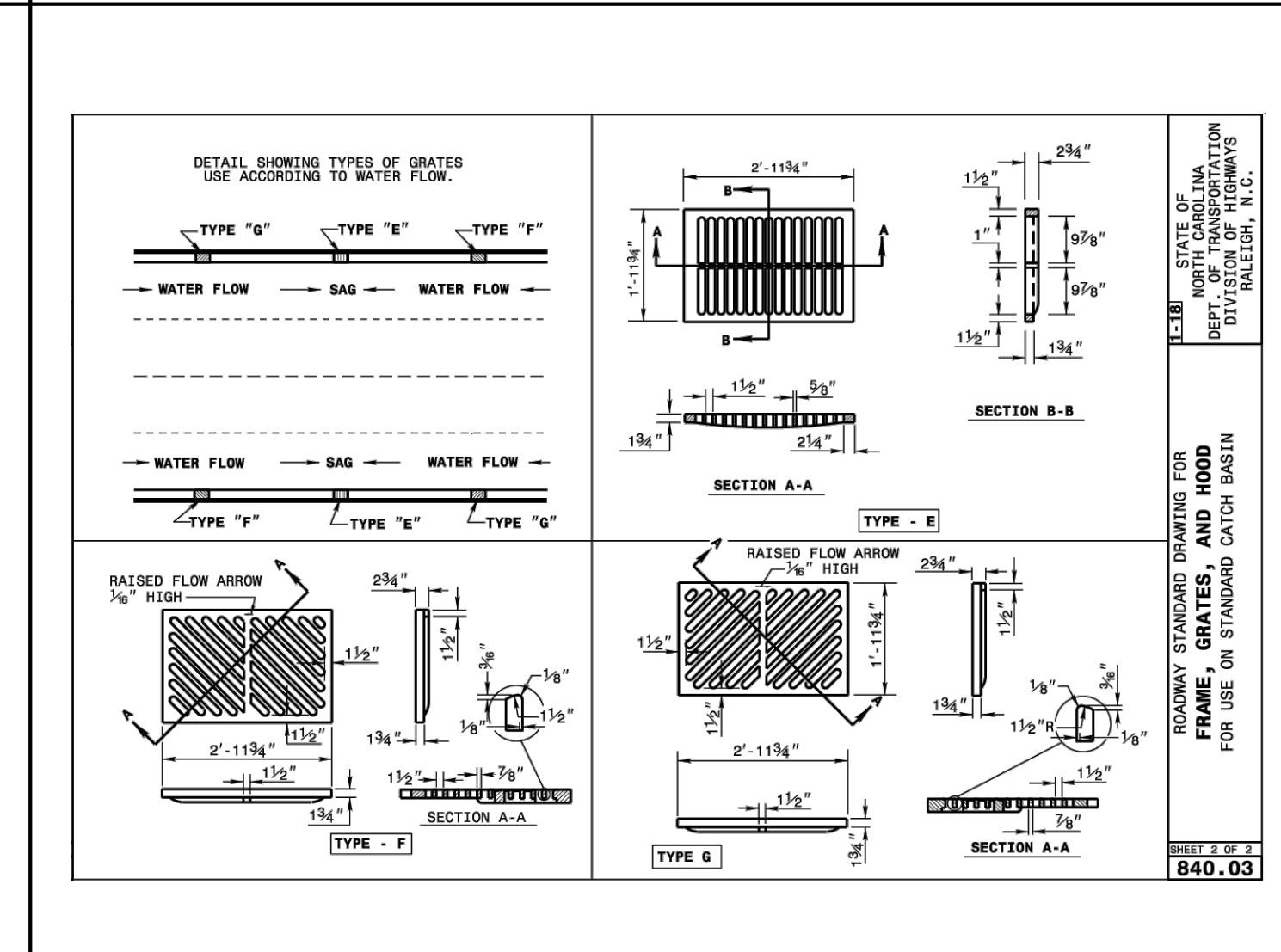
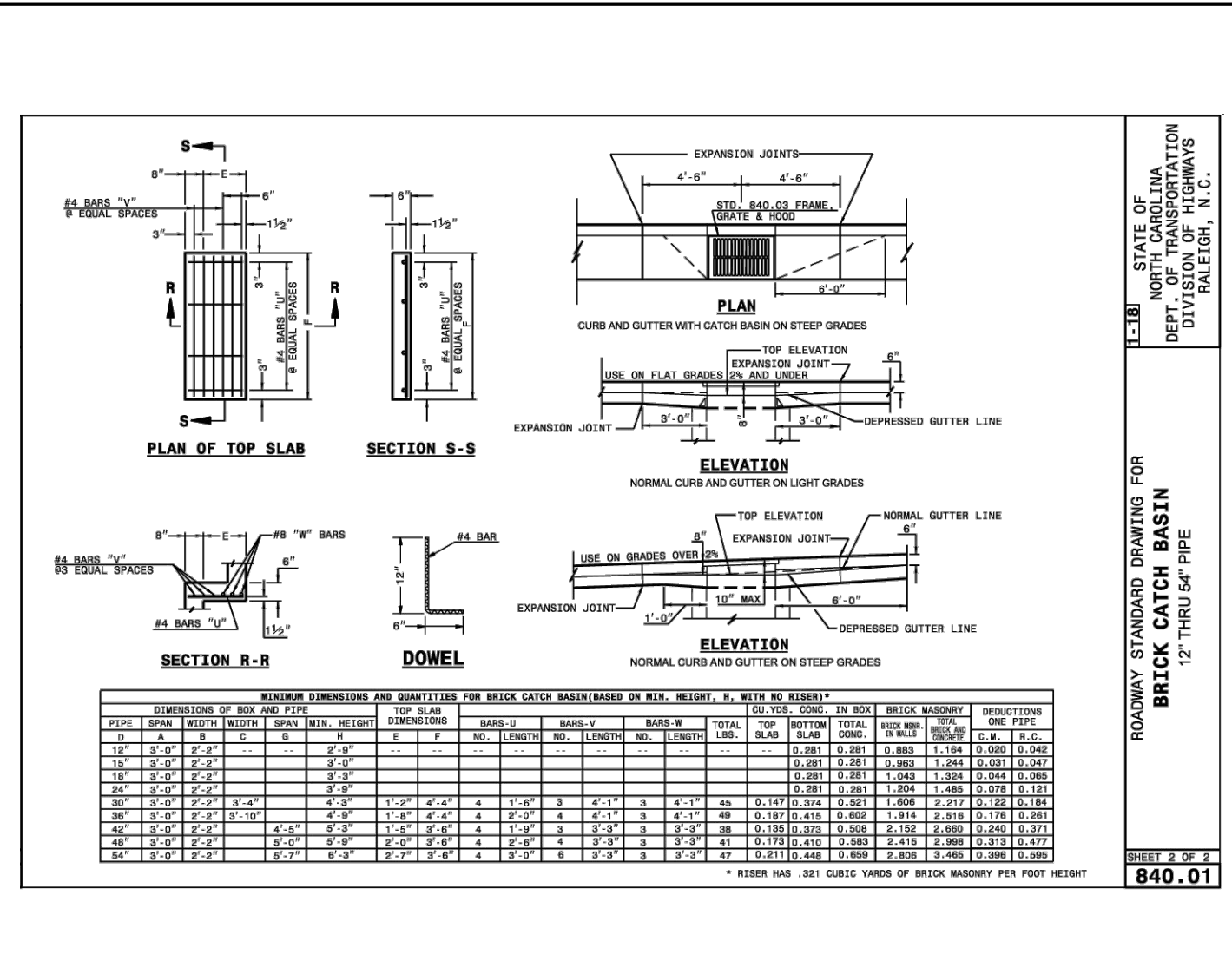
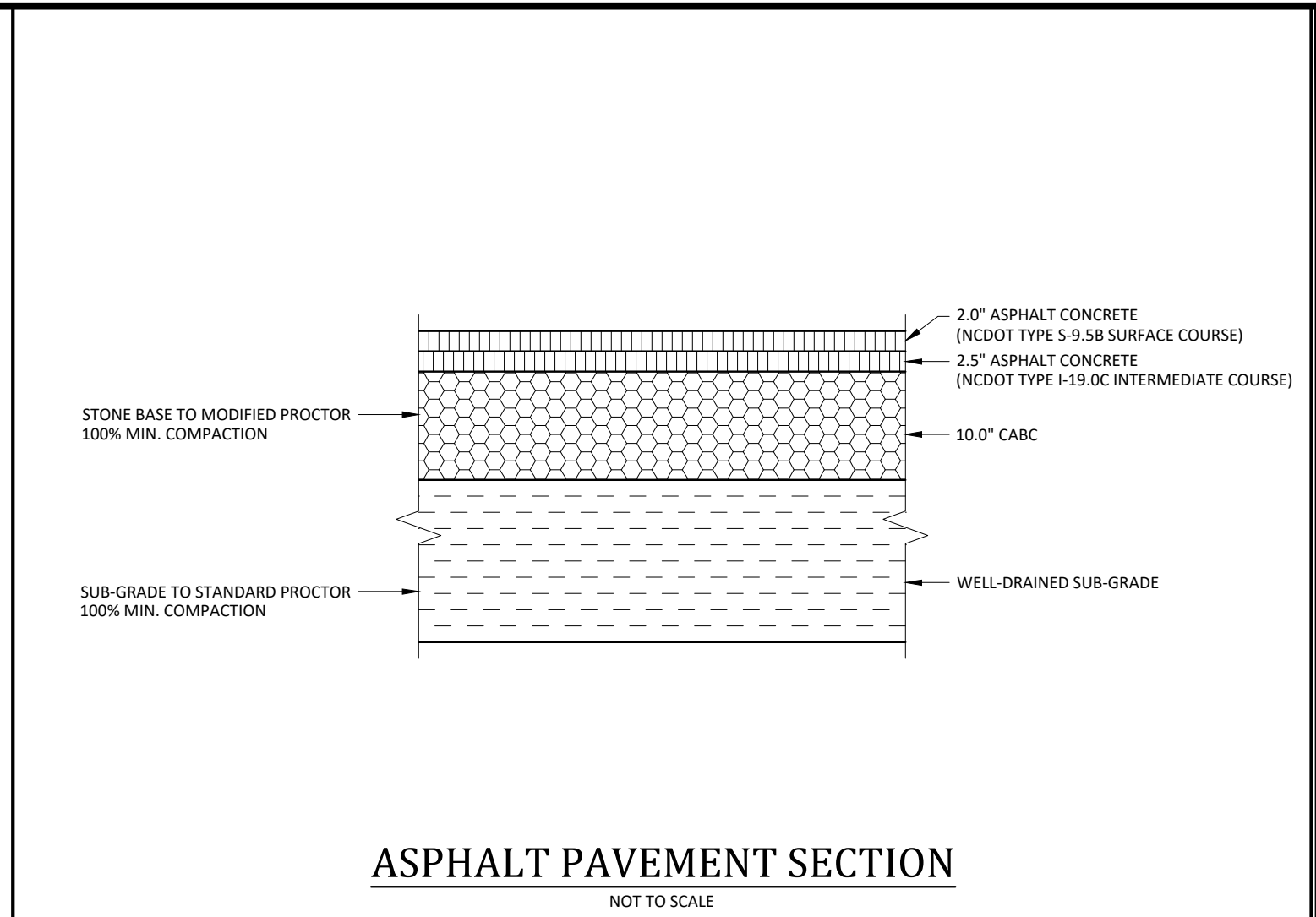
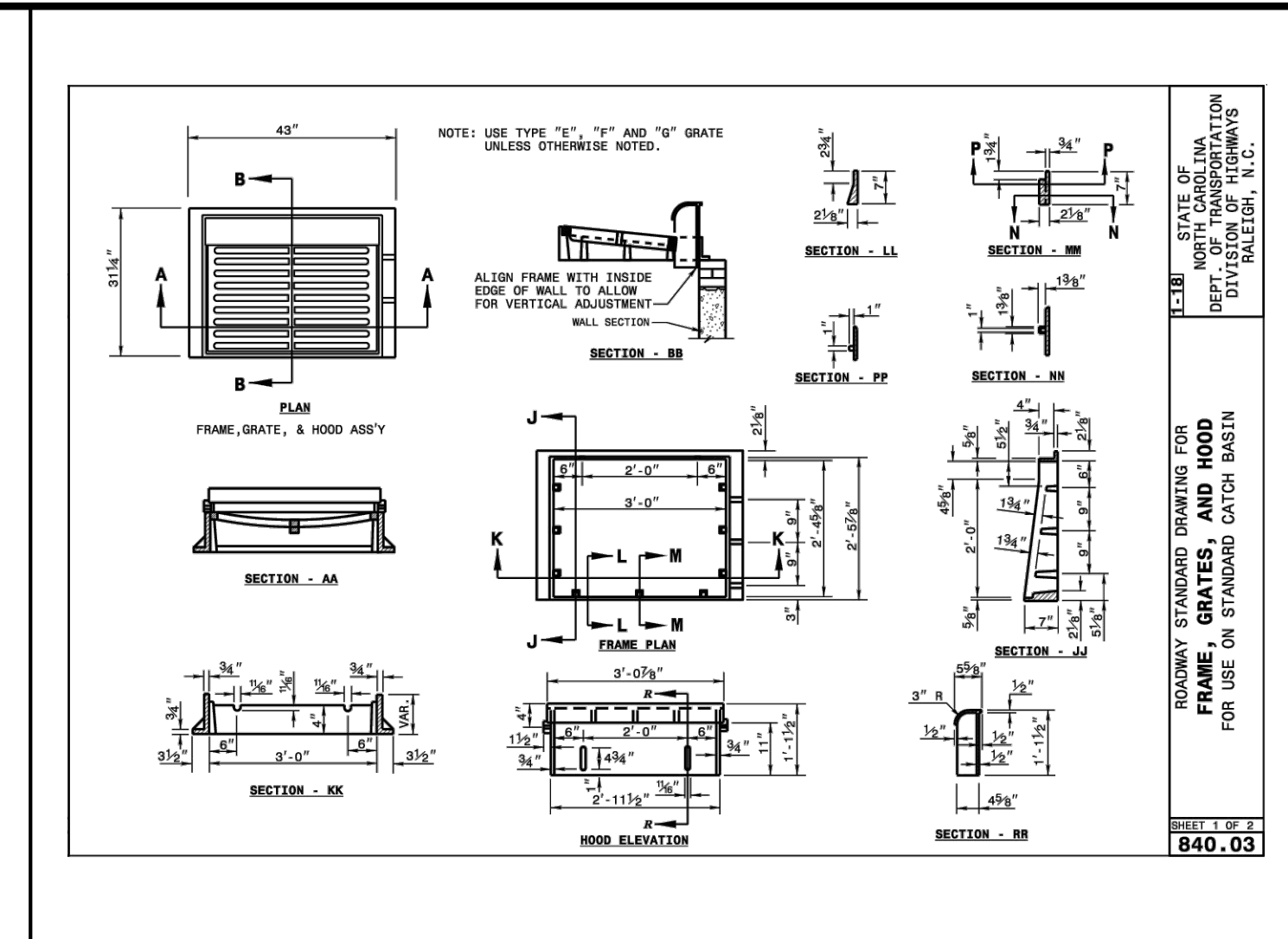
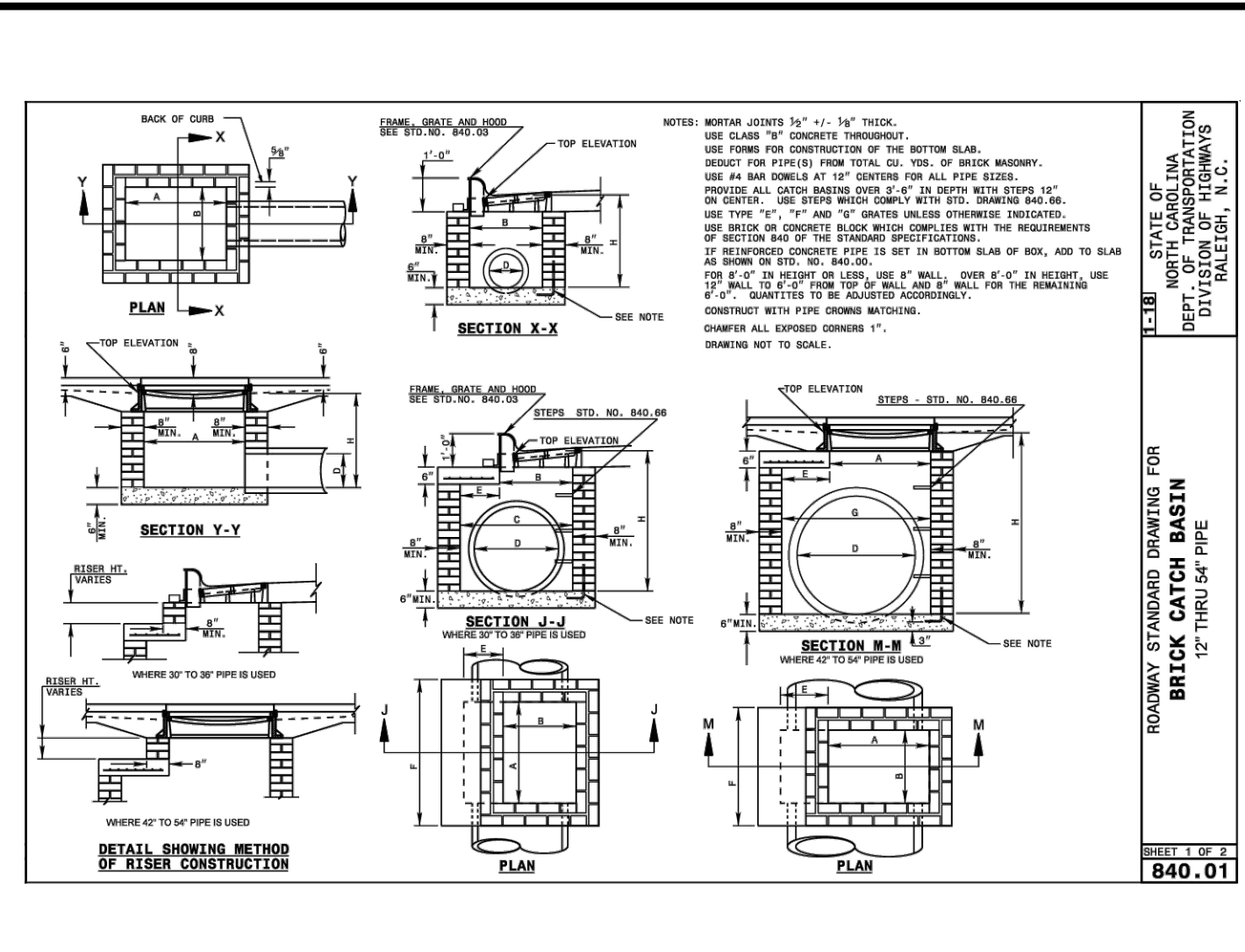
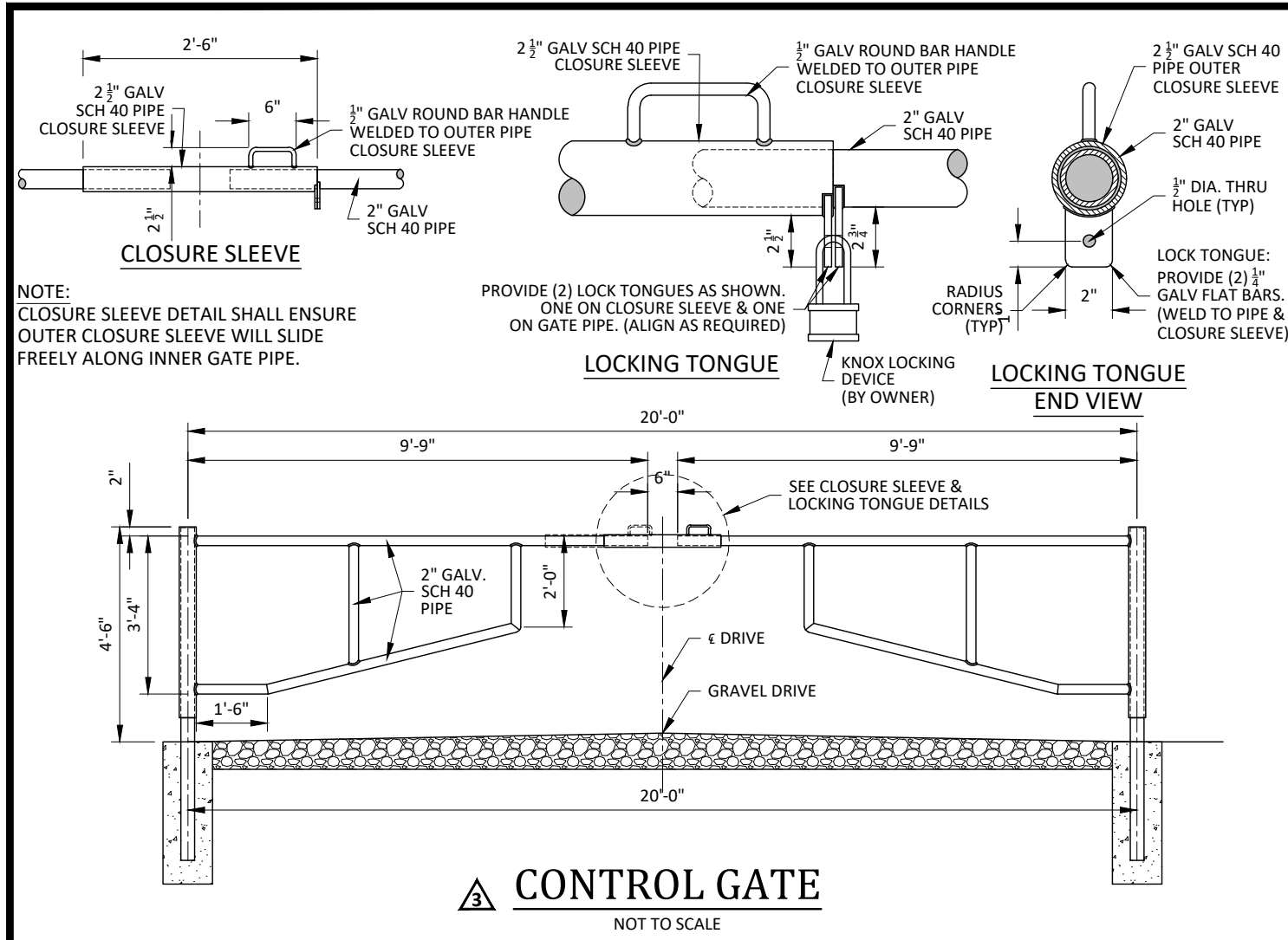
ACCESS DRIVE - PLAN-PROFILE

WALLBROOK ROADWAY IMPROVEMENTS
 VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
 Town of Rolesville Project No. CID 23-04
 US 401 Business / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS
 925-A Cornerstone Dr.
 Raleigh, NC 27606
 (757) 558-0888
 www.arkconsultinggroup.com

Project Manager: BCF
 Drawn By: DLCTGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C3.1
 Date: May 1, 2023



- Final Drawing -
Issued for Permit
Review Purposes Only

CROSLAND SOUTHEAST

WALLBROOK ROADWAY IMPROVEMENTS
VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
Town of Roanoke Project No. CID 23-04
US 401 Business / S. Main Street & Virginia Water Drive
Wake Forest Township, Town of Roanoke, Wake County, North Carolina

DETAILS

ARK CONSULTING GROUP PLLC
ENGINEERS & PLANNERS
925-A Commerce Dr.
Raleigh, NC 27608
(919) 878-7858
(919) 878-8888
www.arkconsultinggroup.com

REVISIONS:

| # | DATE | DESCRIPTION |
|---|-----------|---------------------------------------|
| 1 | 11-MAY-23 | ISSUED FOR PERMIT REVIEW |
| 2 | 11-MAY-23 | REVISED PER OWNER COMMENTS |
| 3 | 11-MAY-23 | REVISED PER OWNER COMMENTS |
| 4 | 12-MAY-24 | REVISED PER REVIEWER & OWNER COMMENTS |
| 5 | 13-SEP-24 | REVISED PER REVIEWER & OWNER COMMENTS |

Project Manager: BCF
Drawn By: DLCTGN
Checked By: TGN
Project Number: 22049
Drawing Number: D-1404-CID

C4.0

Date: May 1, 2023

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)
 The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S.

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W.

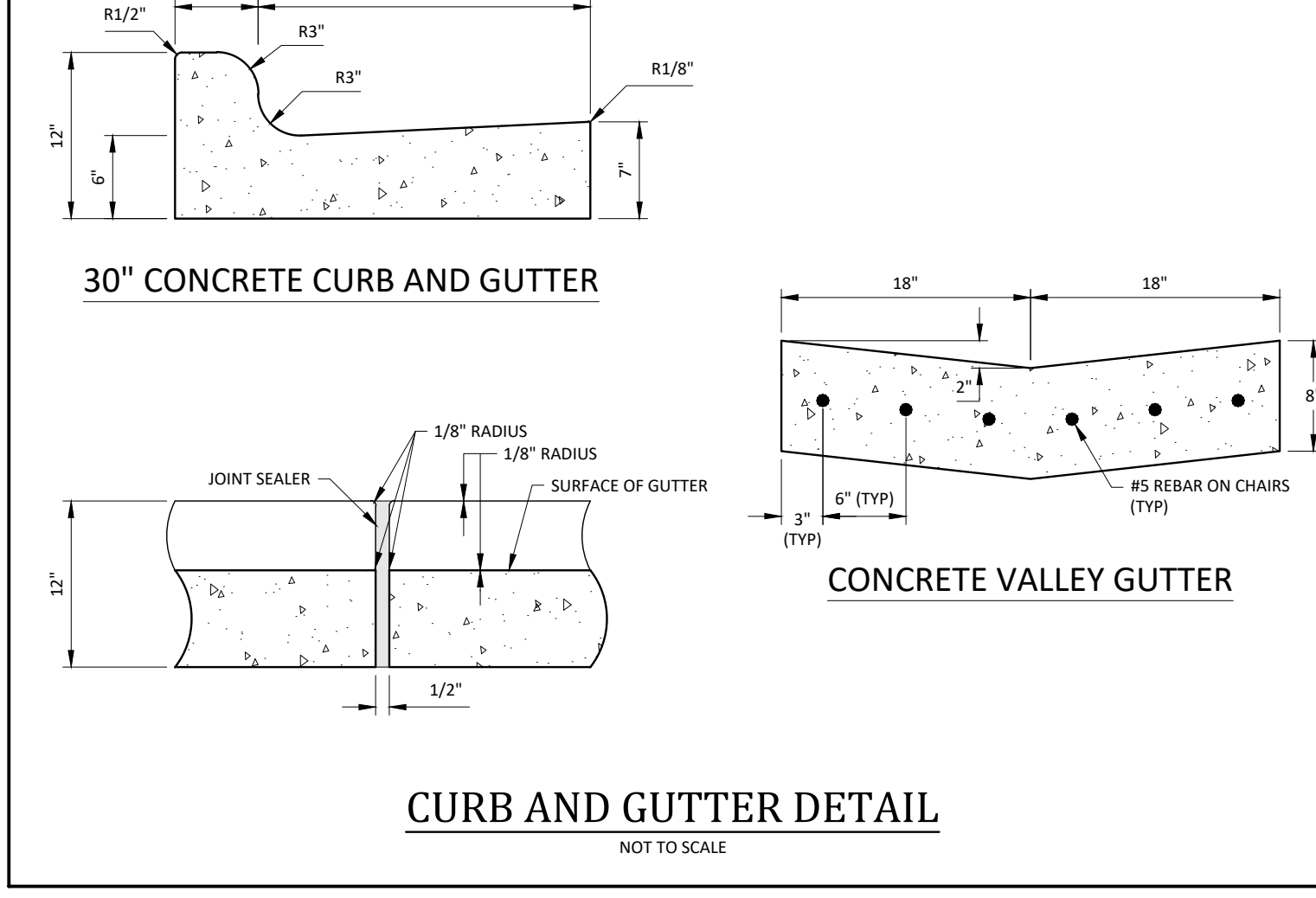
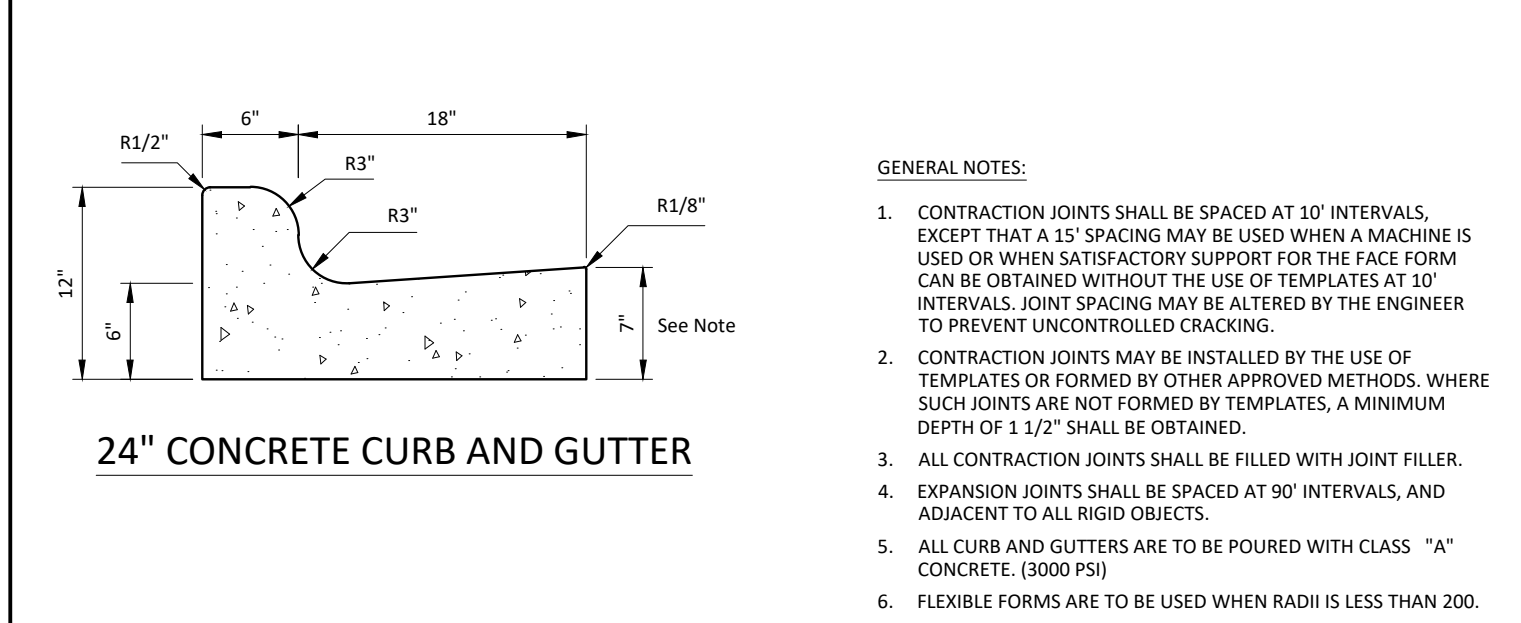
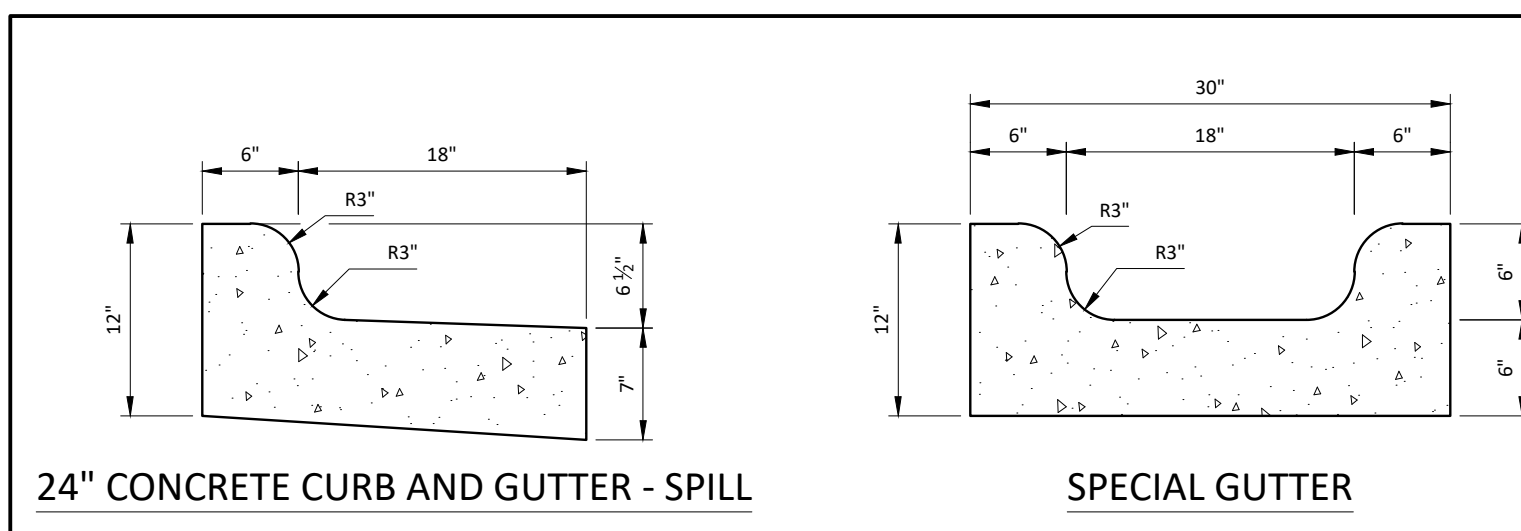
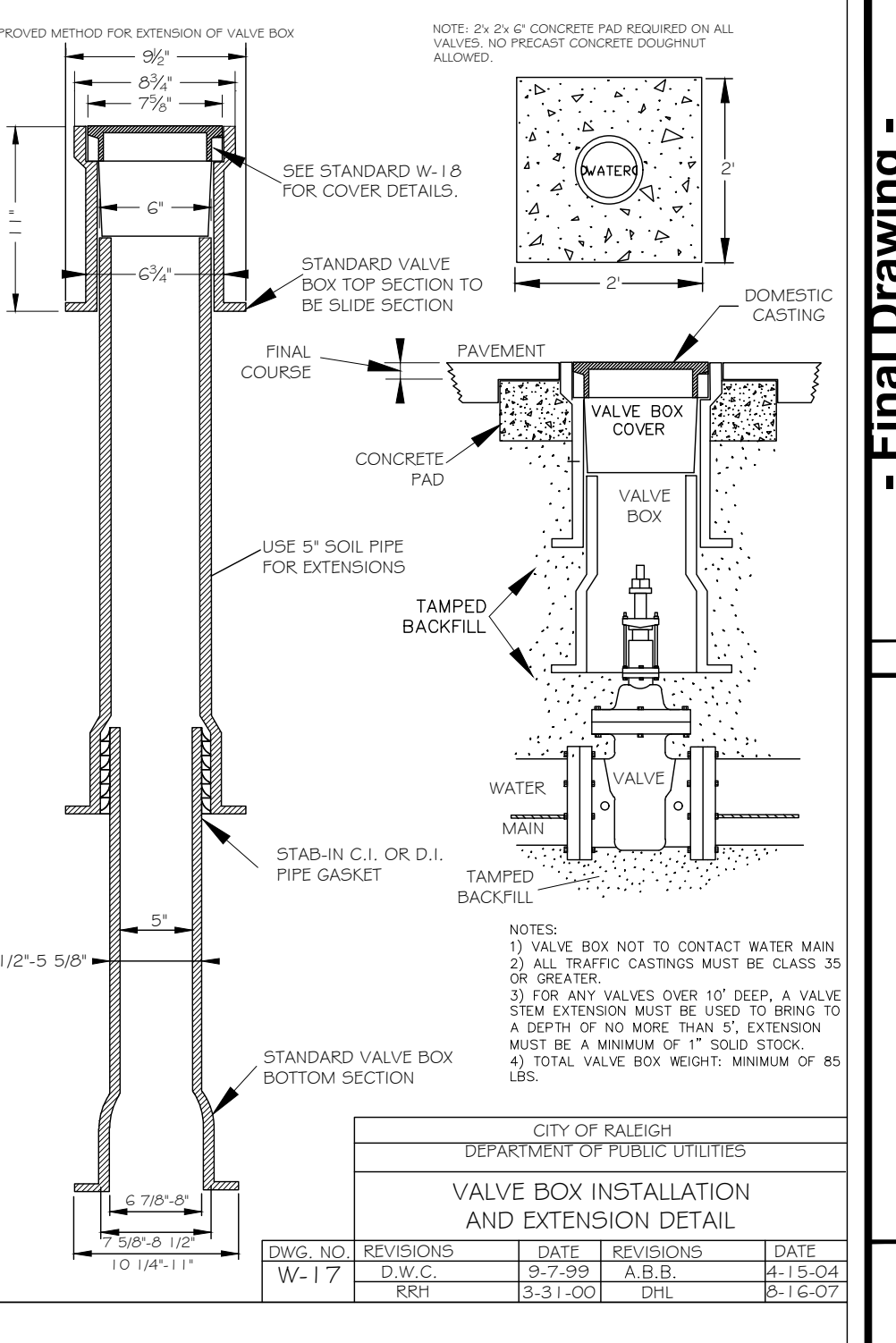
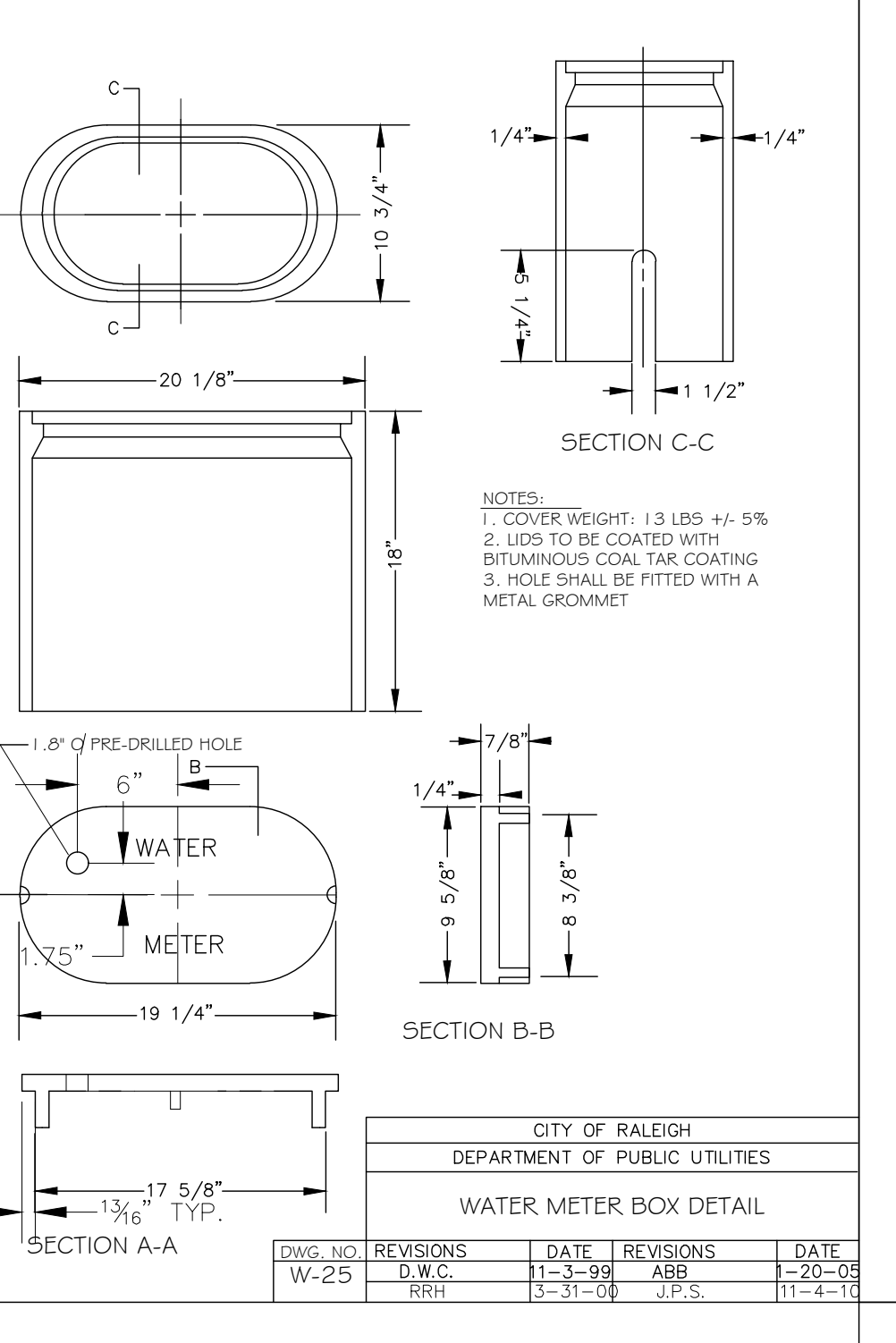
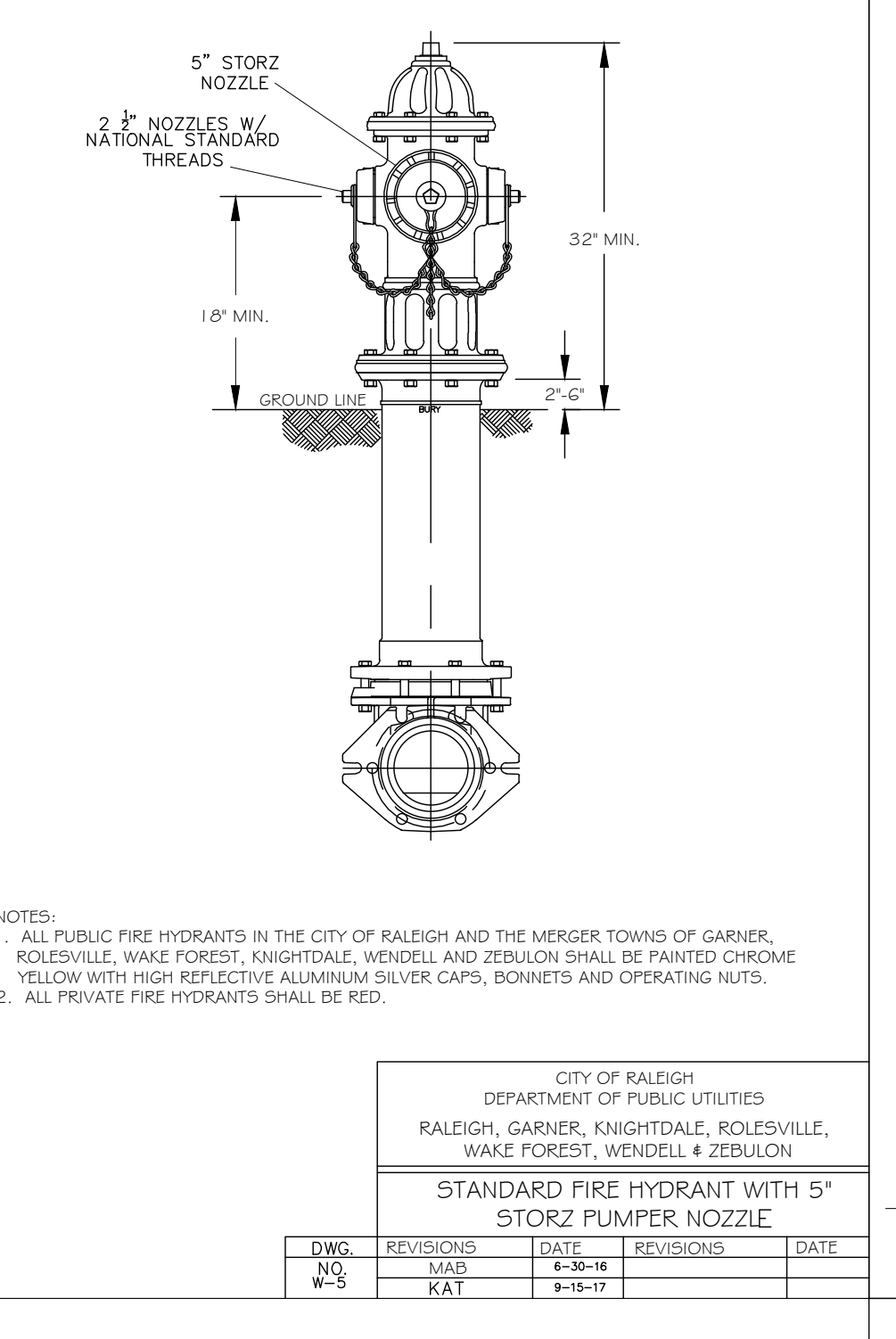
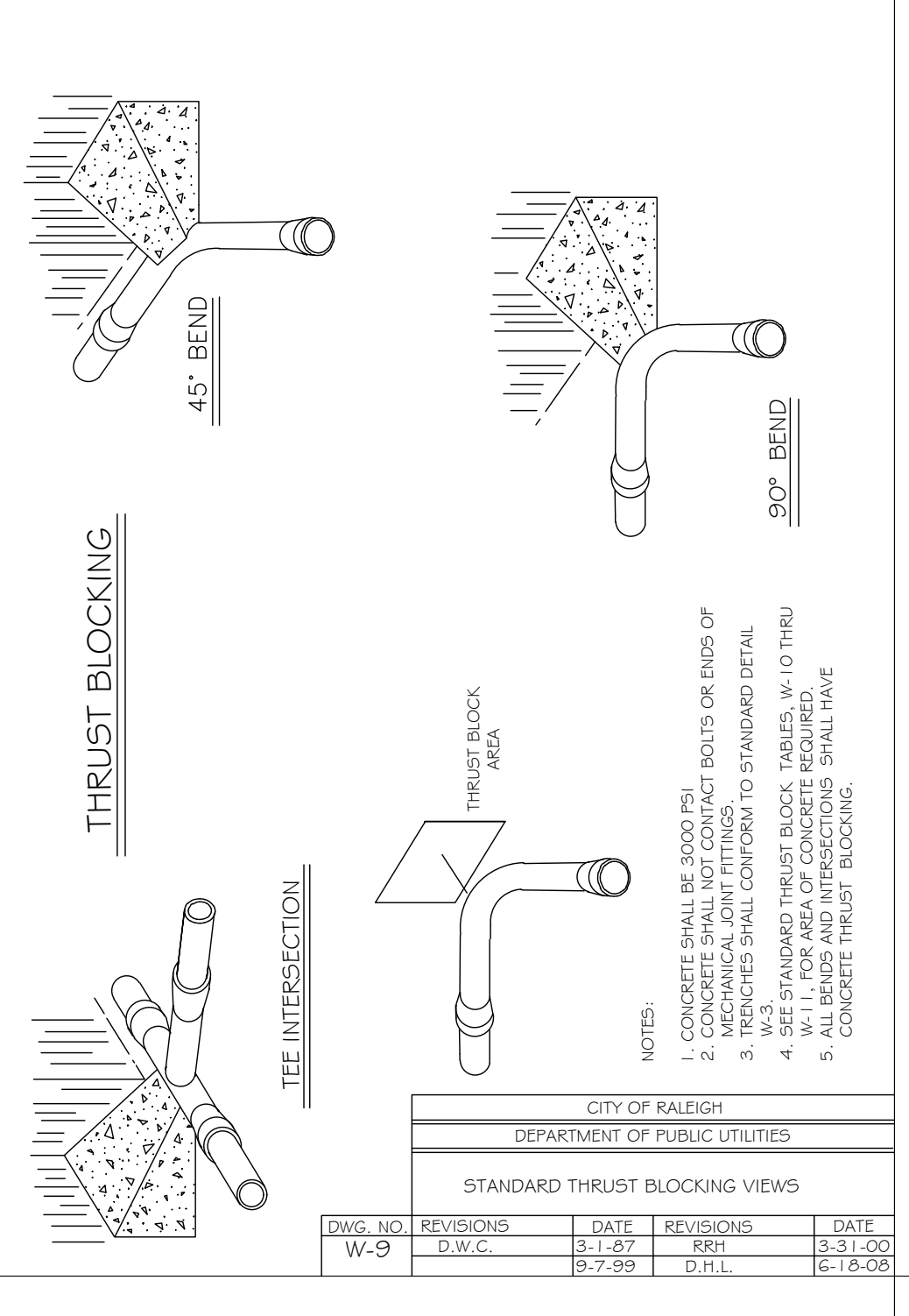
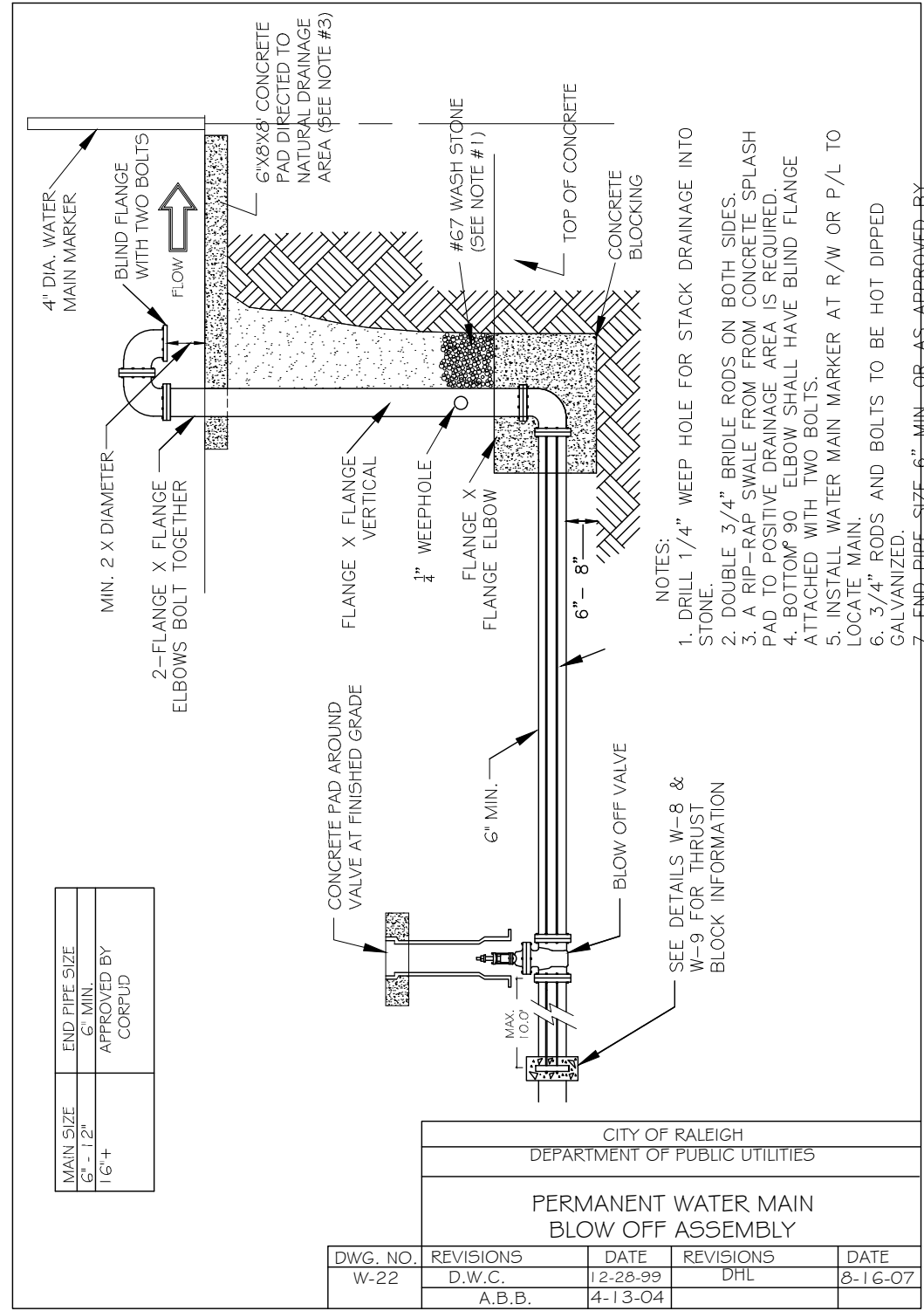
The City of Raleigh consents to the connection to its public sewer system and extensions of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

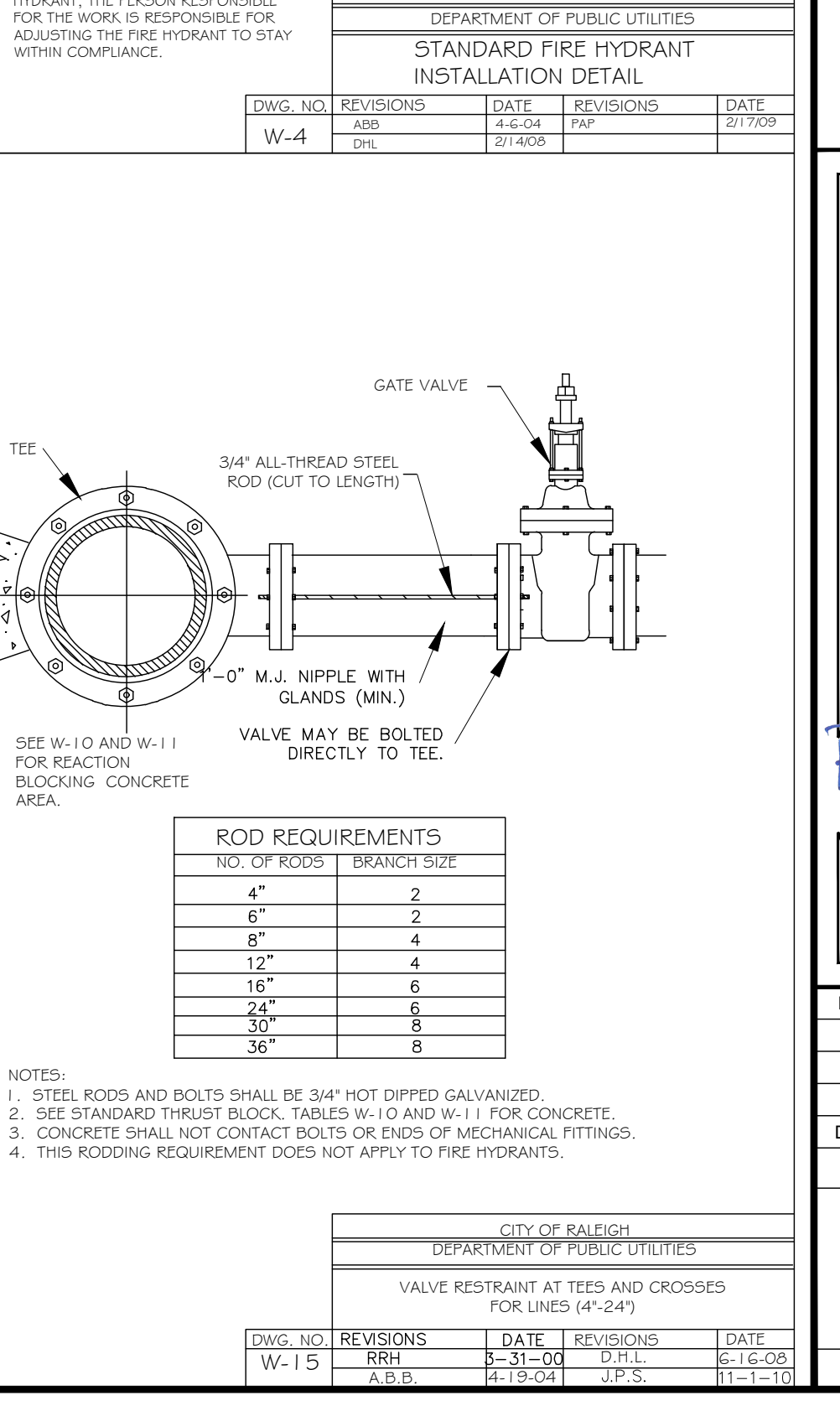
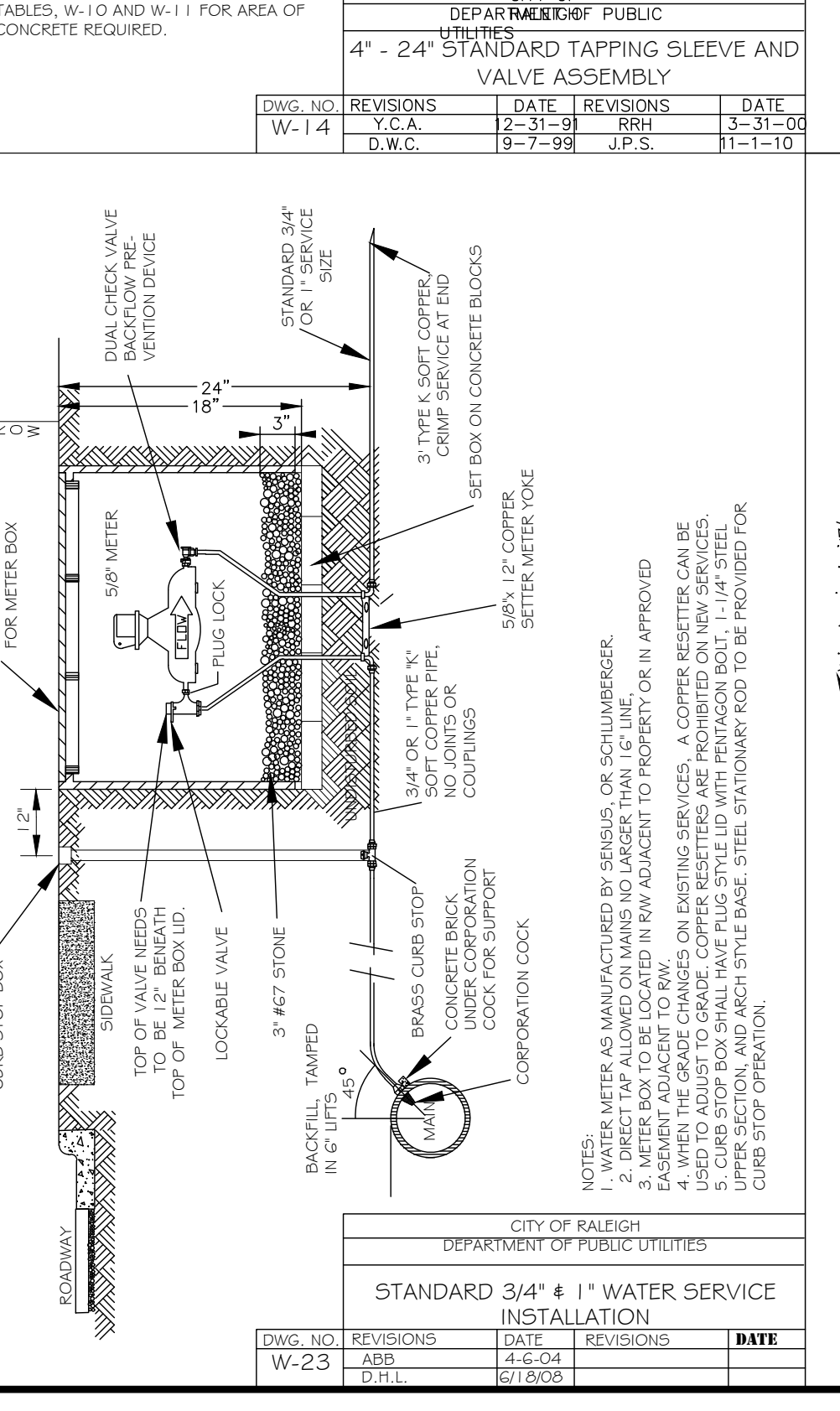
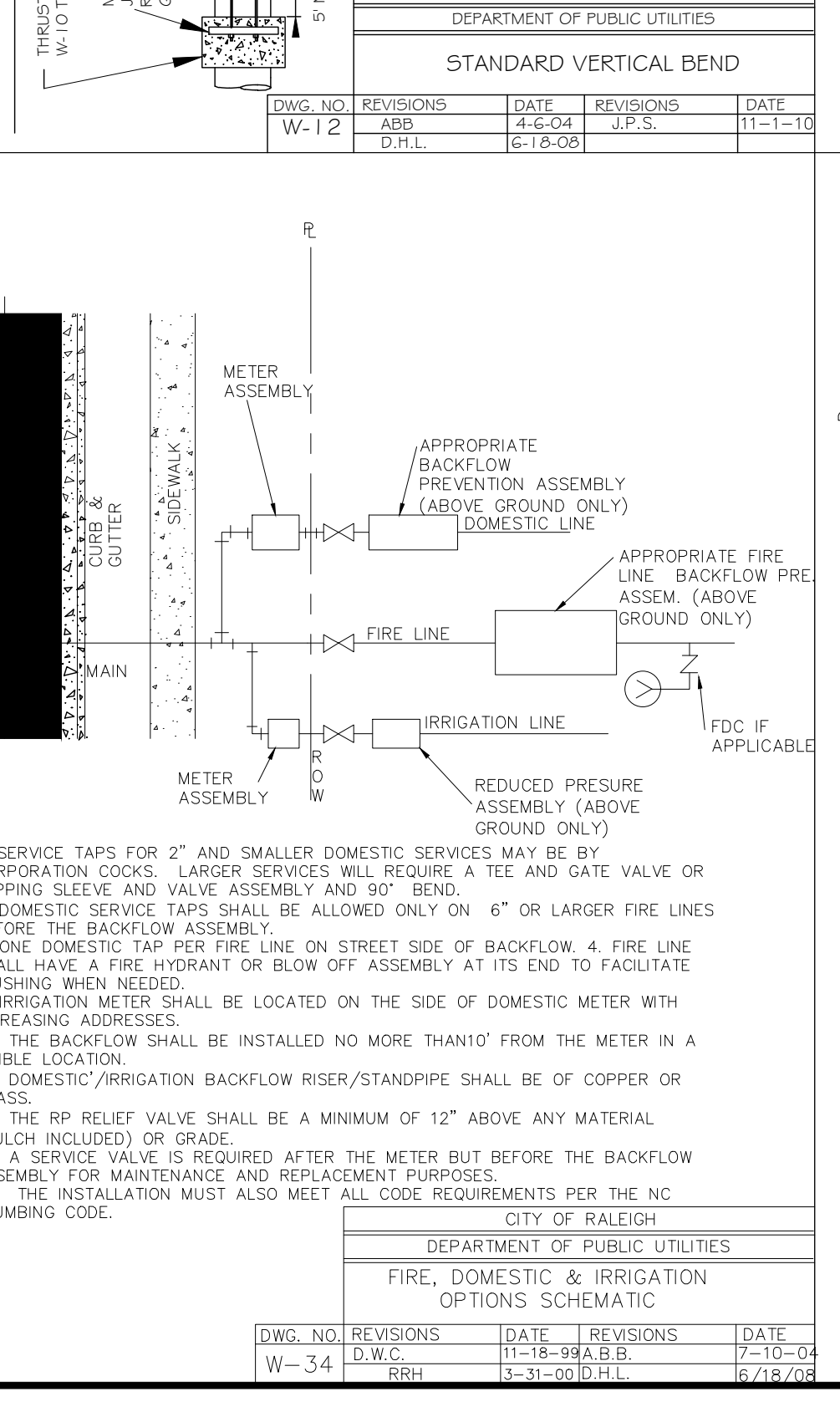
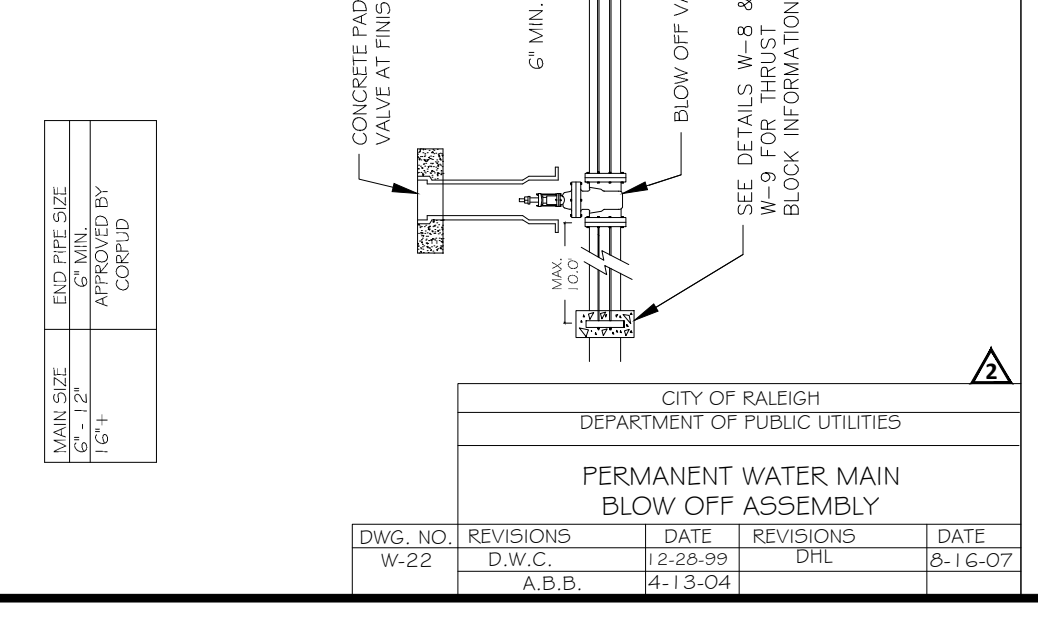
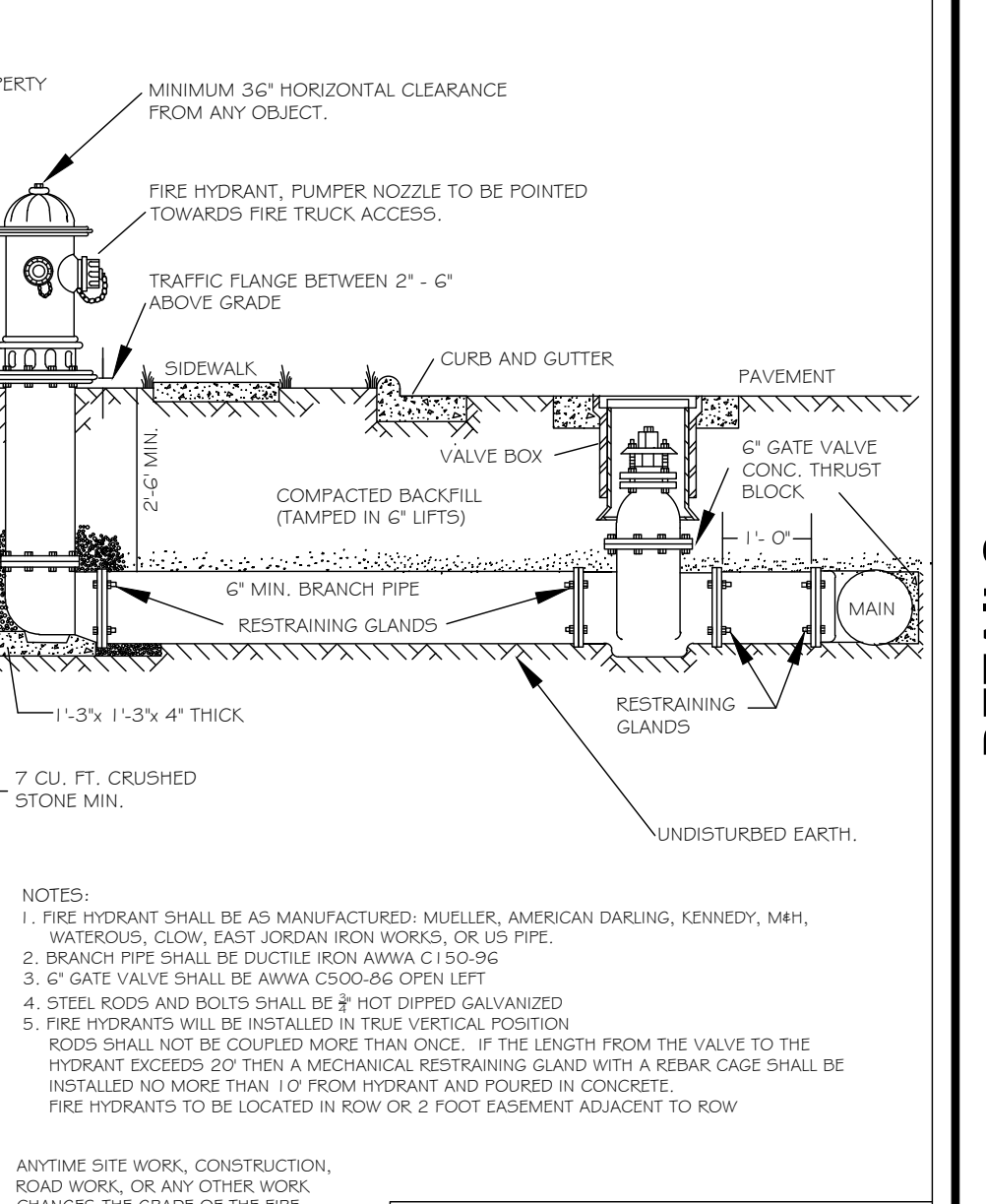
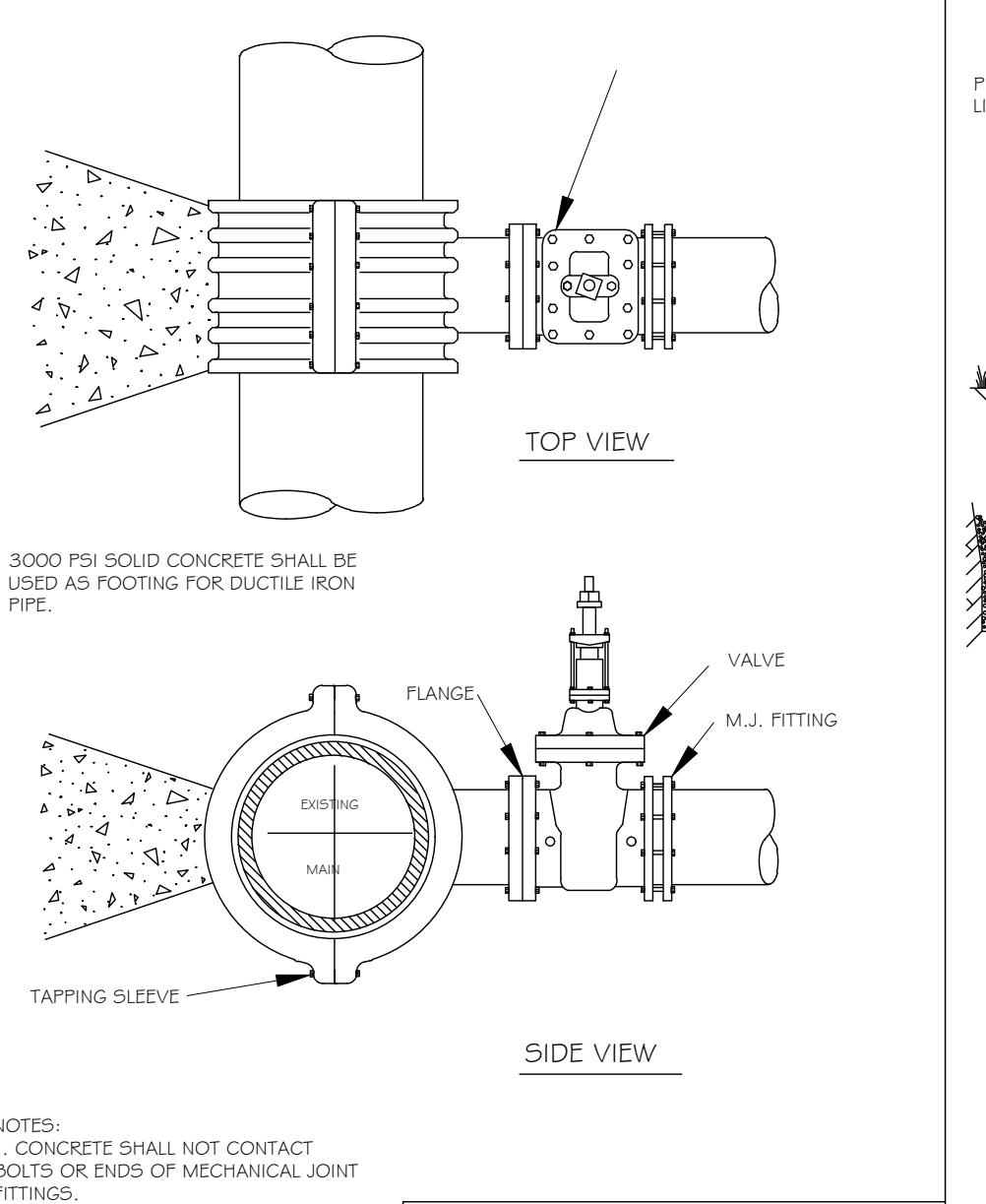
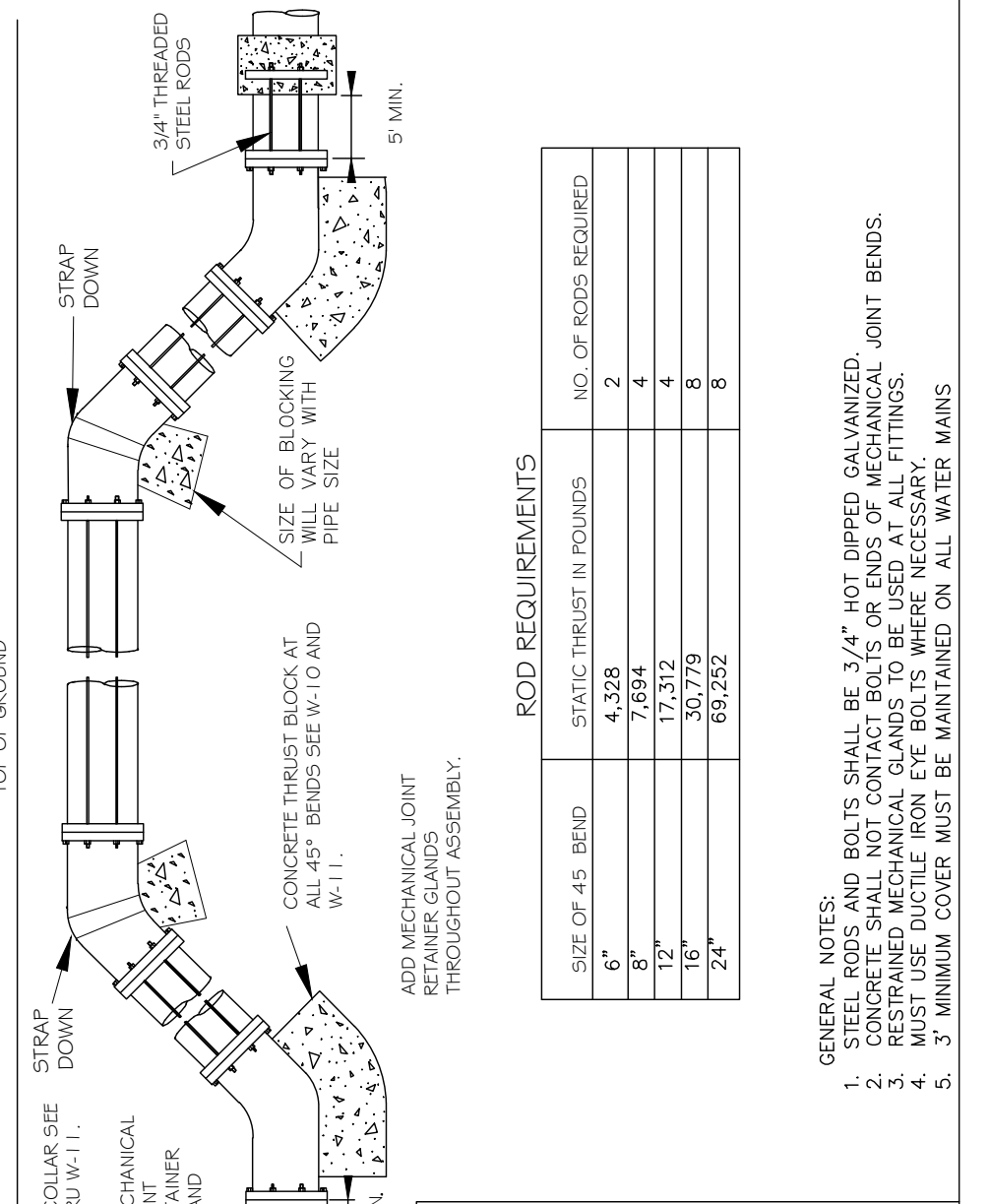
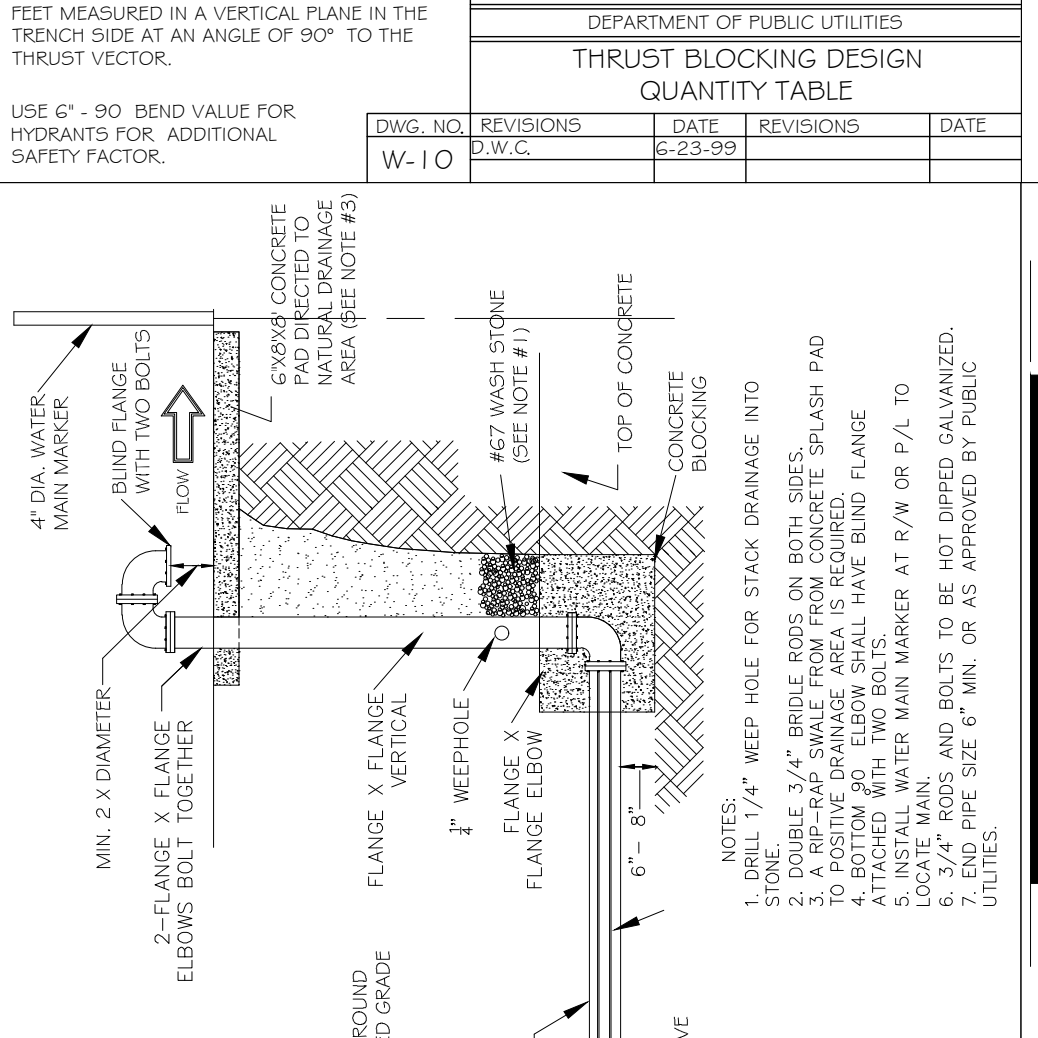
City of Raleigh Development Approval
 City of Raleigh Review Officer



REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
 BASED ON TEST PRESSURE OF 200 P.S.I.

ALL MEASUREMENTS IN SQUARE FEET

| SIZE AND DEGREE OF BEND | STATIC THRUST IN POUNDS | NO. OF RODS REQUIRED |
|-------------------------|-------------------------|----------------------|
| 6" | | |
| 11 1/4" | 1,108 | 1 |
| 22 1/2" | 2,207 | 2 |
| 45" | 4,328 | 2 |
| 90" | 7,996 | 4 |
| PLUG | 5,655 | 2 |
| 18" | | |
| 11 1/4" | 1,970 | 1 |
| 22 1/2" | 3,922 | 2 |
| 45" | 7,694 | 2 |
| 90" | 14,215 | 4 |
| PLUG | 10,053 | 3 |
| 12" | | |
| 11 1/4" | 4,433 | 2 |
| 22 1/2" | 8,826 | 3 |
| 45" | 17,312 | 5 |
| 90" | 31,983 | 8 |
| PLUG | 22,619 | 6 |
| 16" | | |
| 11 1/4" | 7,881 | 2 |
| 22 1/2" | 15,691 | 4 |
| 45" | 30,779 | 8 |
| 90" | 56,861 | 15 |
| PLUG | 40,213 | 10 |



- Final Drawing -
 Issued for Permit Review Purposes Only

REVISIONS:

| # | DATE | DESCRIPTION |
|---|----------|-----------------------------|
| 1 | 11/24/23 | ISSUED FOR PERMIT REVIEW |
| 2 | 11/24/23 | REVISED PER REVIEW COMMENTS |
| 3 | 11/24/23 | REVISED PER REVIEW COMMENTS |
| 4 | 11/24/23 | REVISED PER REVIEW COMMENTS |

CROSLAND SOUTHEAST

WALLBROOK ROADWAY IMPROVEMENTS
 VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)

Town of Rolesville Project No. CID 23-04
 US 401 Business / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

DETAILS

NC License: P-1129

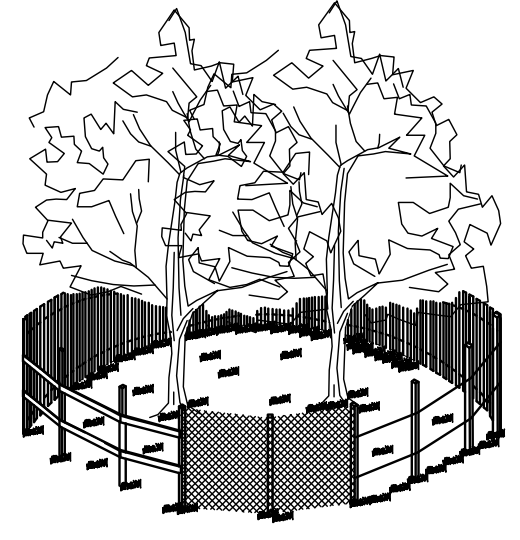
ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS

925-A Cottonville Dr.
 Cary, NC 27513
 (919) 558-8888
 www.arkconsultinggroup.com

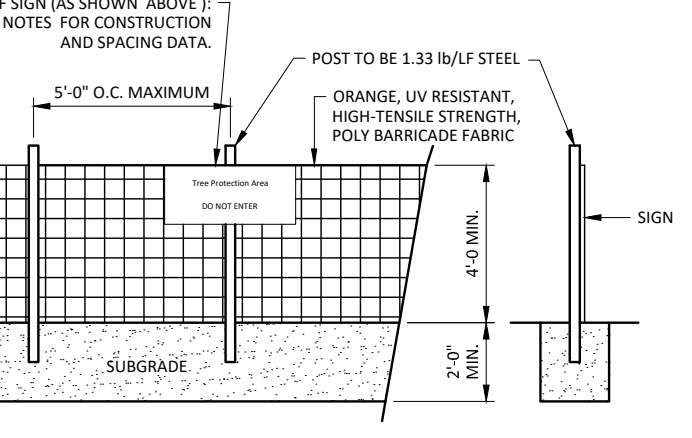
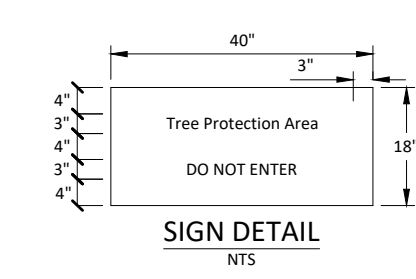
Project Manager: BCF
 Drawn By: DLCTGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C4.1

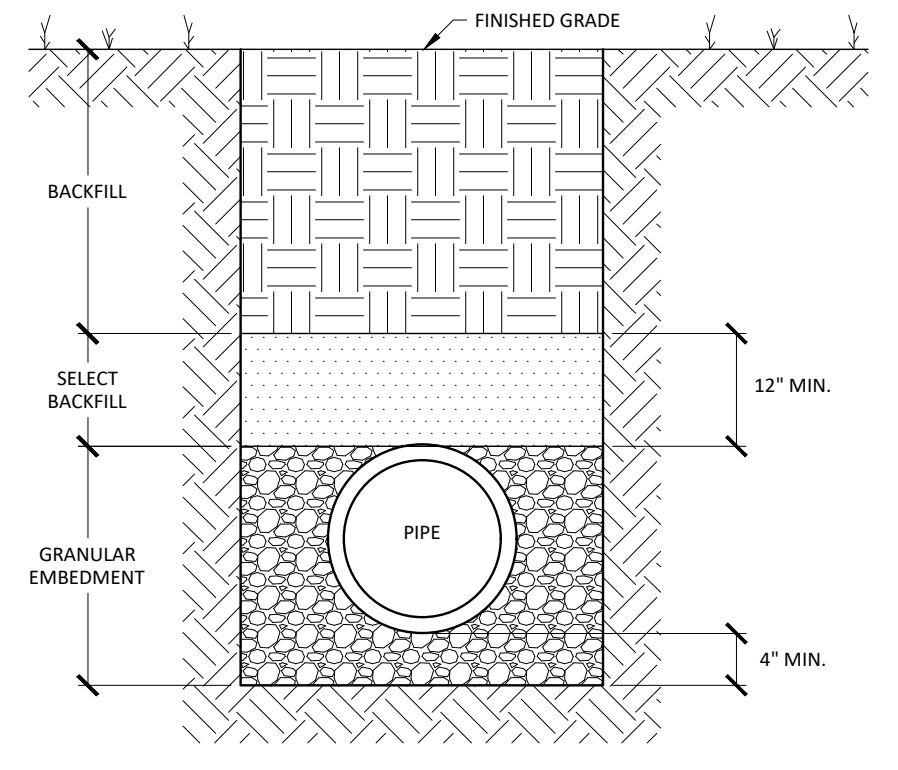
Date: May 1, 2023



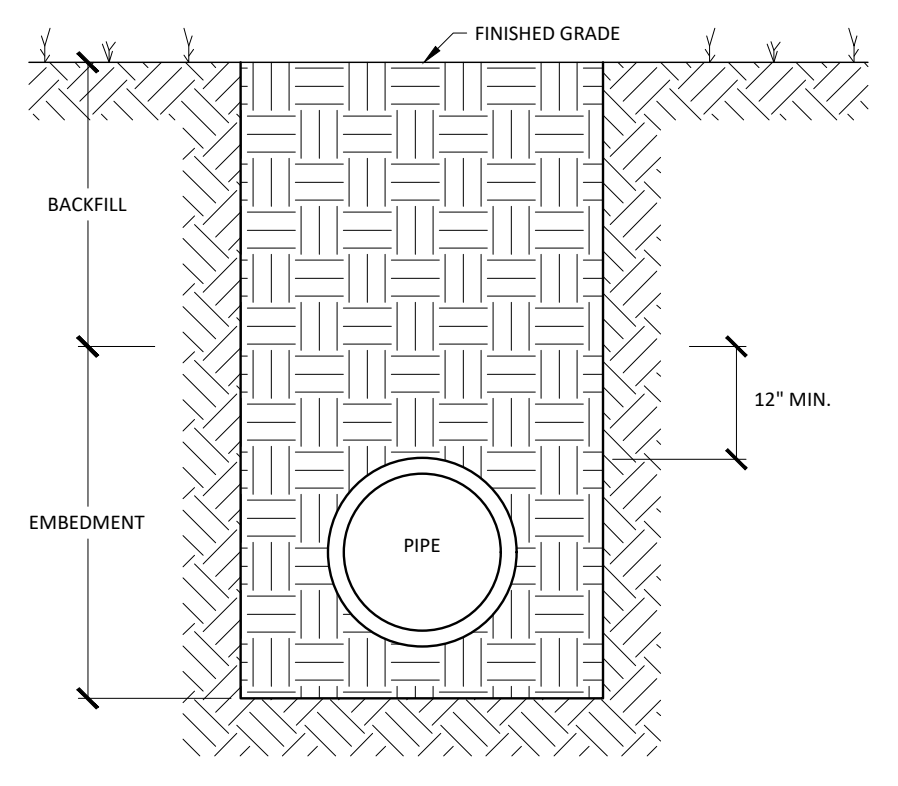
- NOTES:**
1. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER, PLACE SIGN AT EACH END OF LINEAR TREE PROTECTION AREA AND 200' ON CENTER THEREAFTER.
 2. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
 3. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
 4. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
 5. LETTERS ARE TO BE 3" HIGH MINIMUM, CLEAN LEGIBLE, AND SPACED AS DETAILED.
 6. INSTALL TREE PROTECTION FENCE & SIGNAGE PRIOR TO CALLING FOR THE INITIAL ON-SITE INSPECTION BY A LICENSED INSPECTOR. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BY NOTICES BASED ON ACTUAL FIELD CONDITIONS.



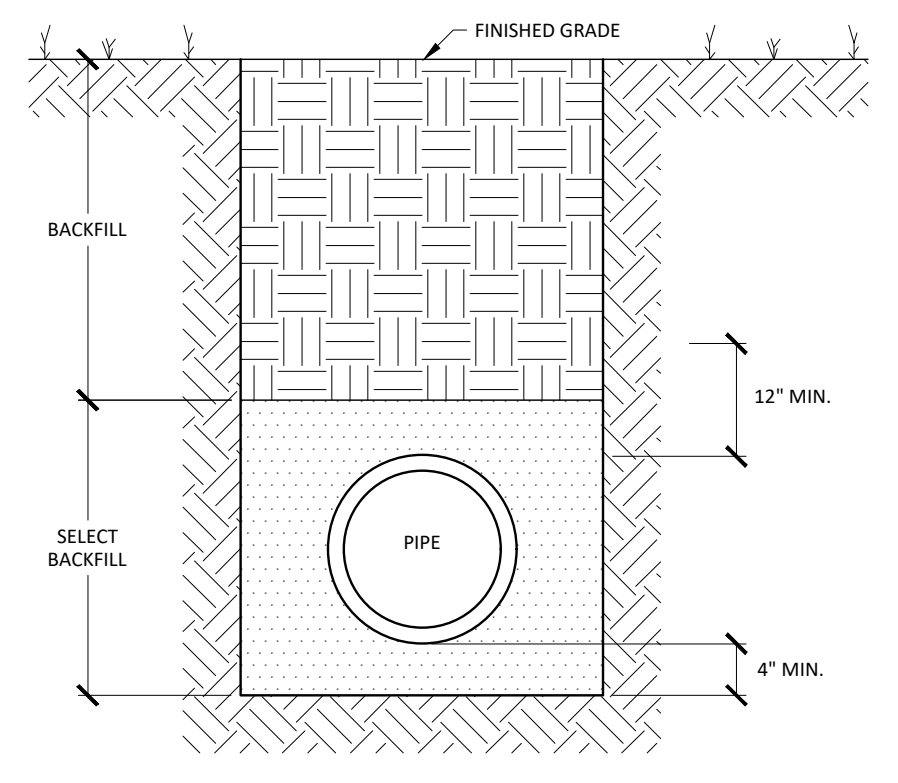
TREE PROTECTION FENCE
NOT TO SCALE



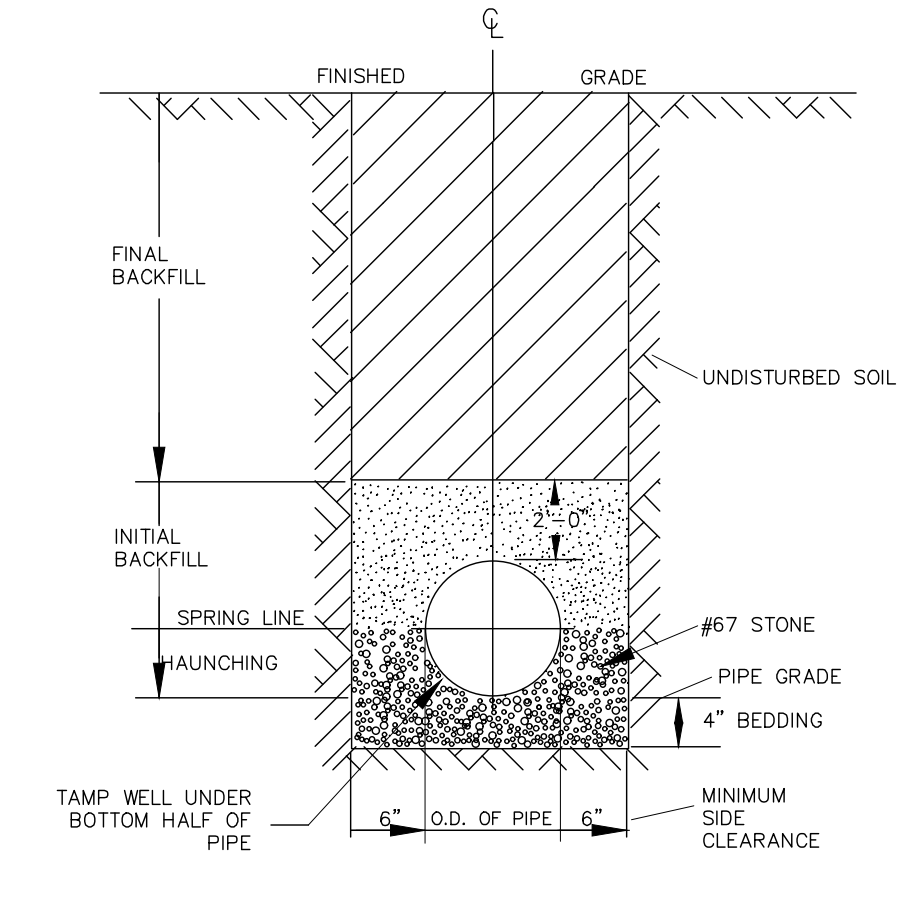
TRENCH SECTION DETAIL FOR THE INSTALLATION OF PVC GRAVITY STORM DRAIN & SANITARY SEWER PIPING
CLASS 'D'
NOT TO SCALE



TRENCH SECTION FOR THE INSTALLATION OF REINFORCED CONCRETE PIPE
CLASS 'F'
NOT TO SCALE

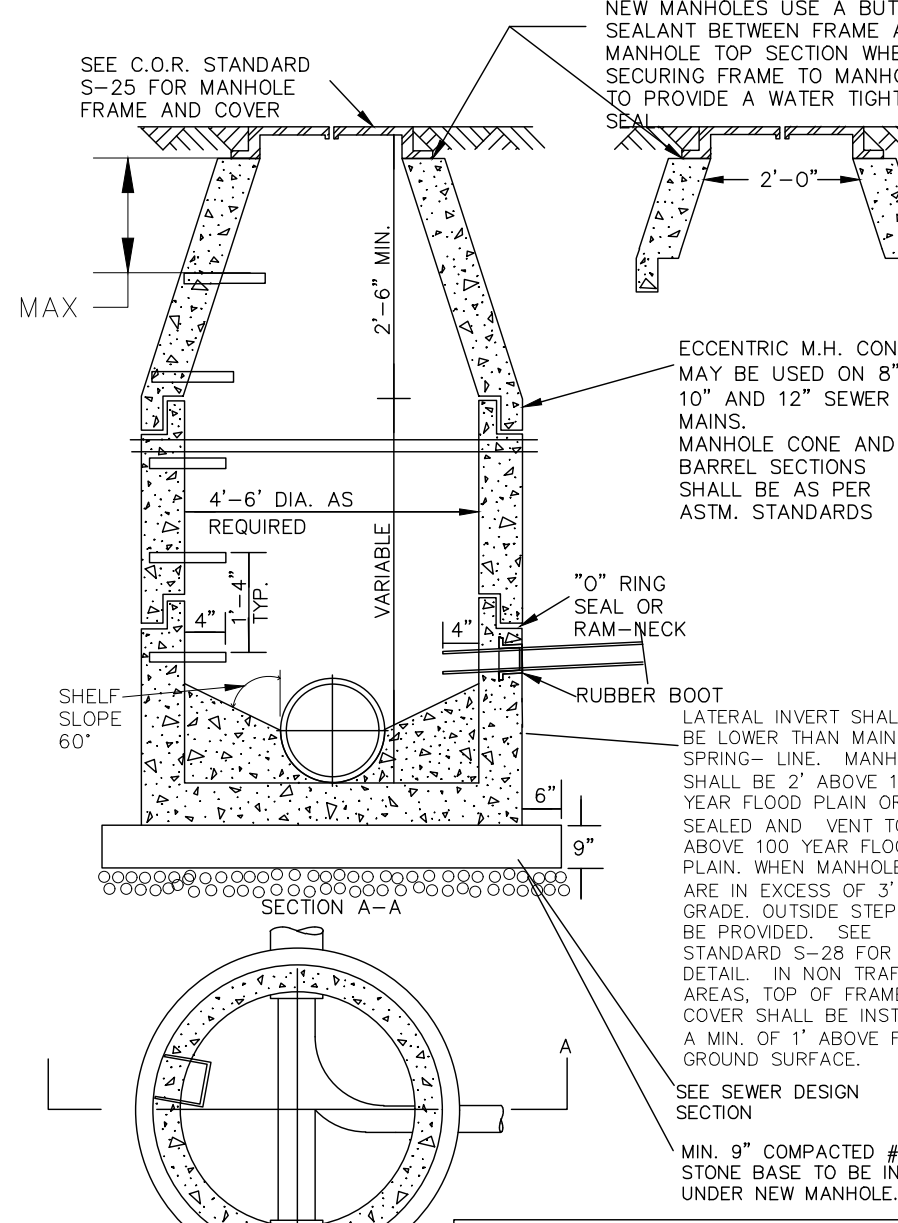


TRENCH SECTION DETAIL FOR THE INSTALLATION OF PVC PRESSURE PIPE
CLASS 'E'
NOT TO SCALE

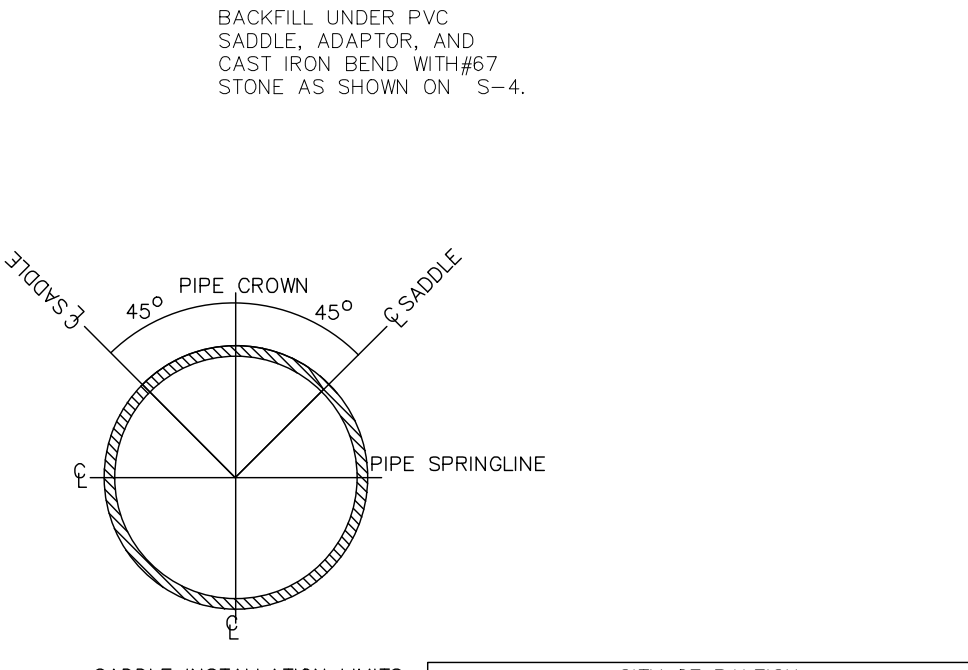
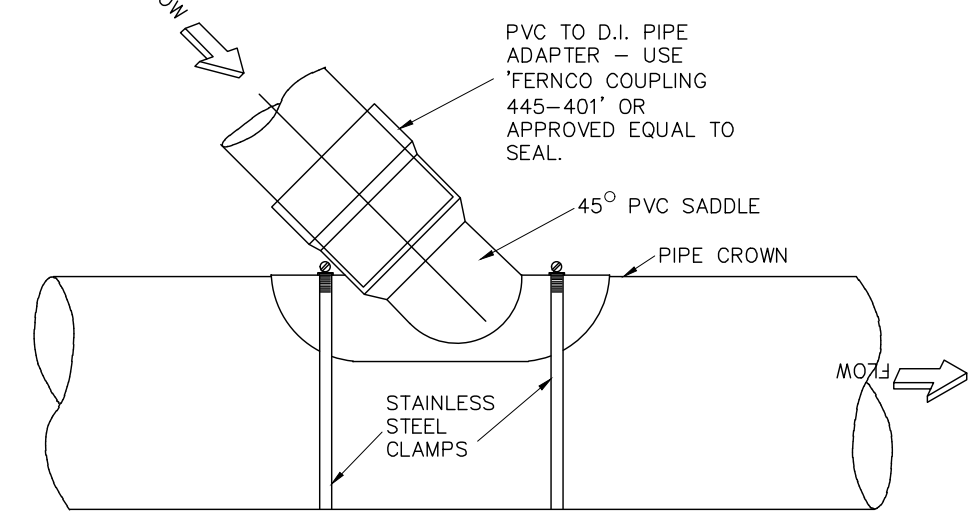
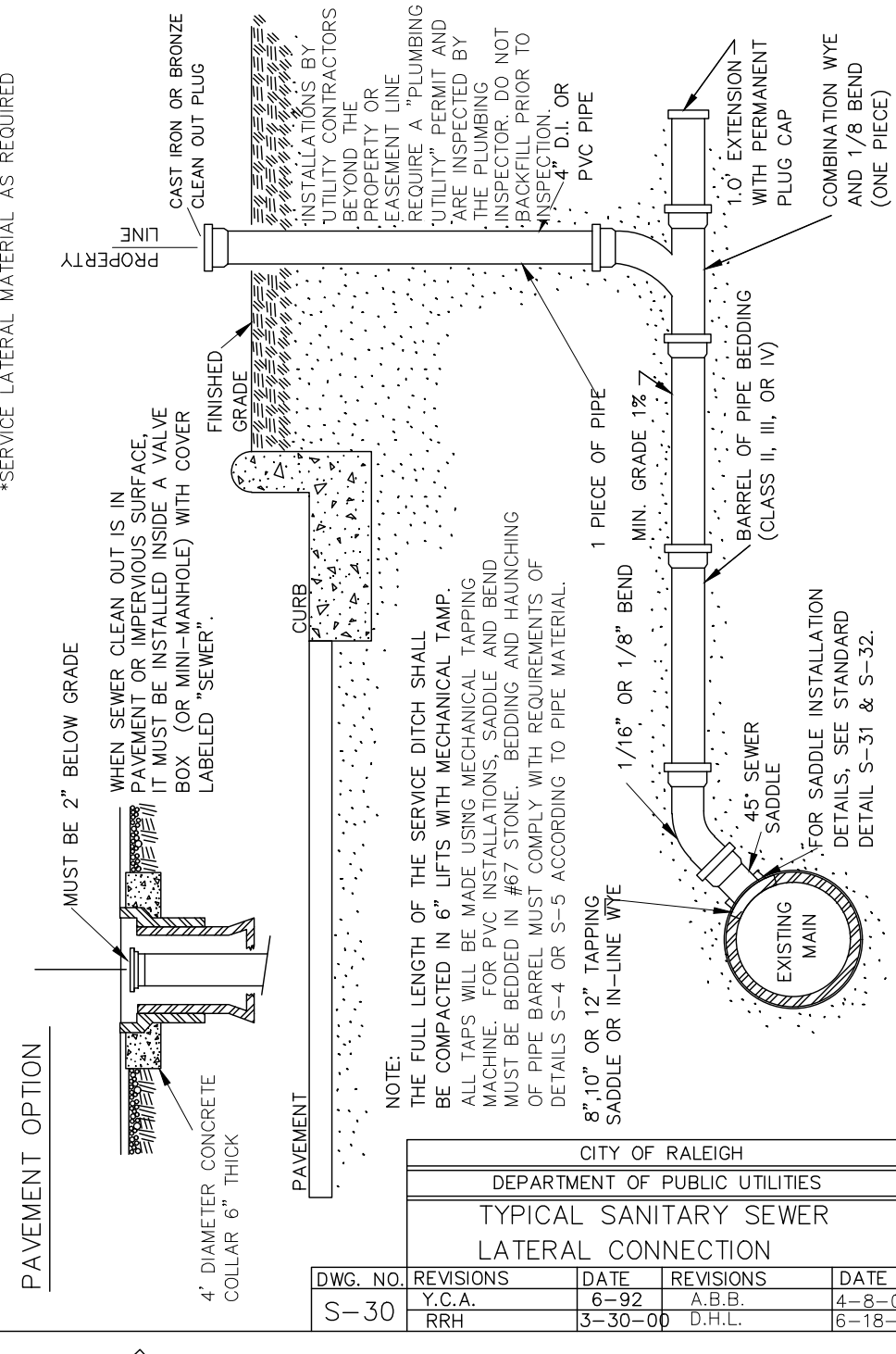


- NOTES:**
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
 4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

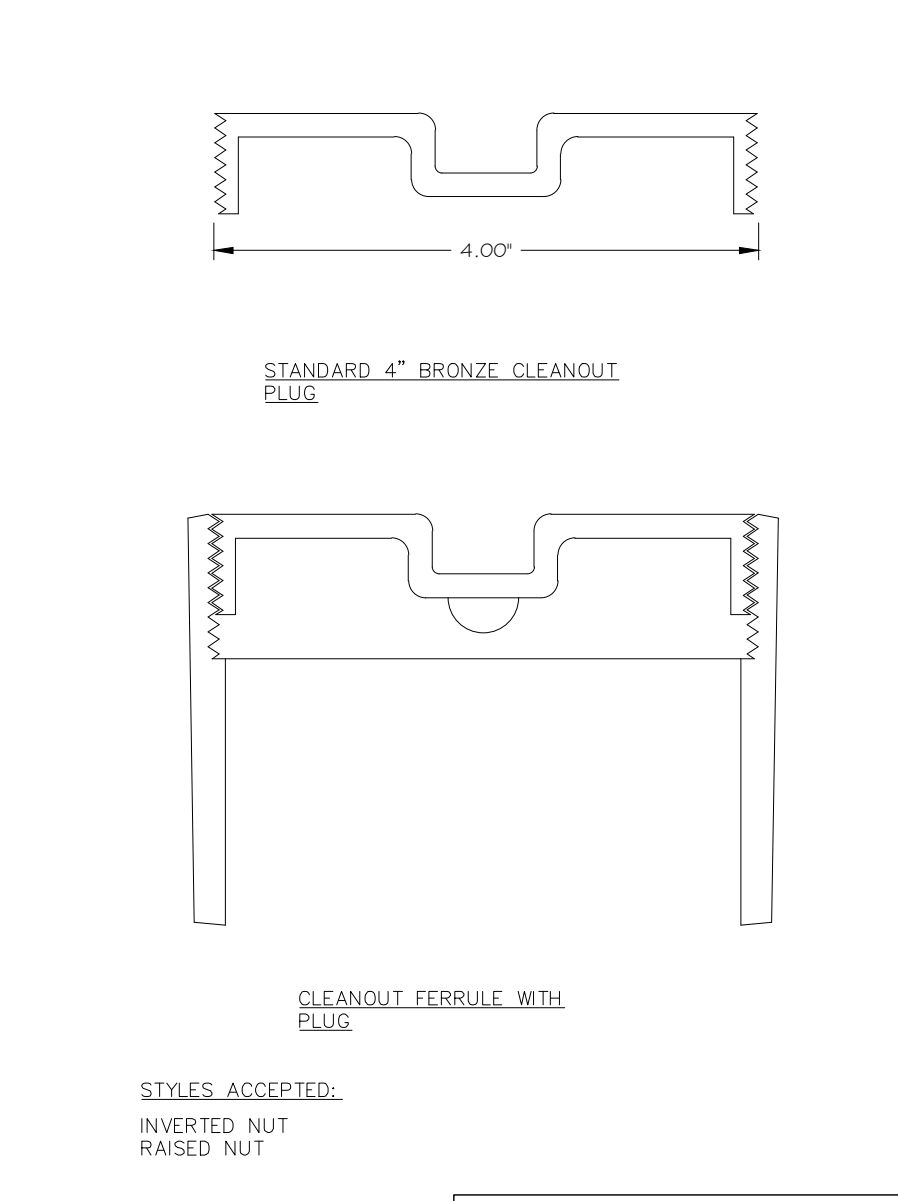
| CITY OF RALEIGH | | | | | |
|--|-----------|--------|-----------|---------|------|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | DATE |
| S-5 | TO NOTES | 3-1-87 | D.W.C. | 9-3-99 | |
| | | 7-2-82 | RRH | 3-30-00 | |



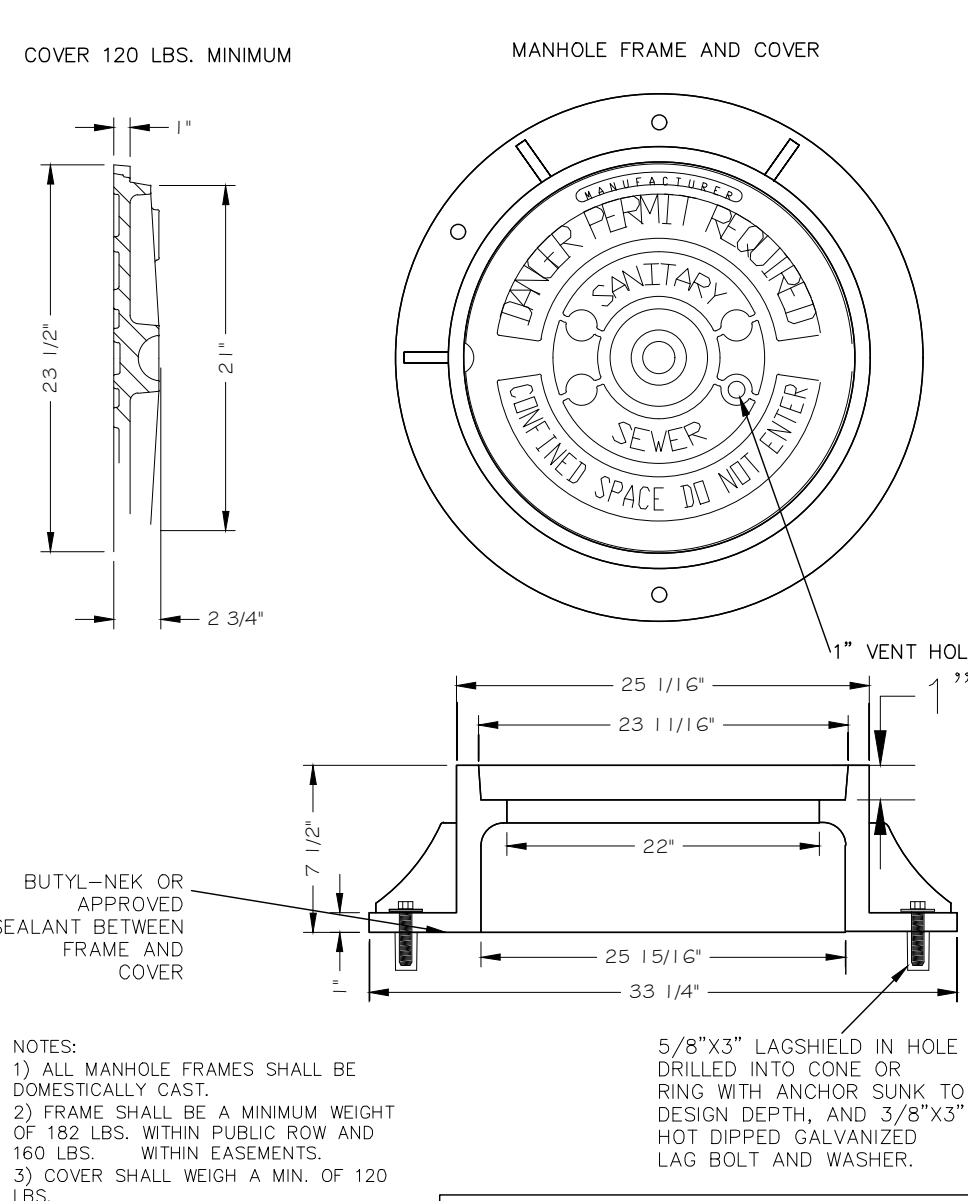
| CITY OF RALEIGH | | | | | |
|---|-----------|----------|-----------|---------|------|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| STANDARD PRECAST SANITARY SEWER MANHOLE | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | DATE |
| S-20 | | 12-31-93 | ABB | 2-21-95 | |
| | | 3-30-00 | D.H.L. | 6-18-08 | |



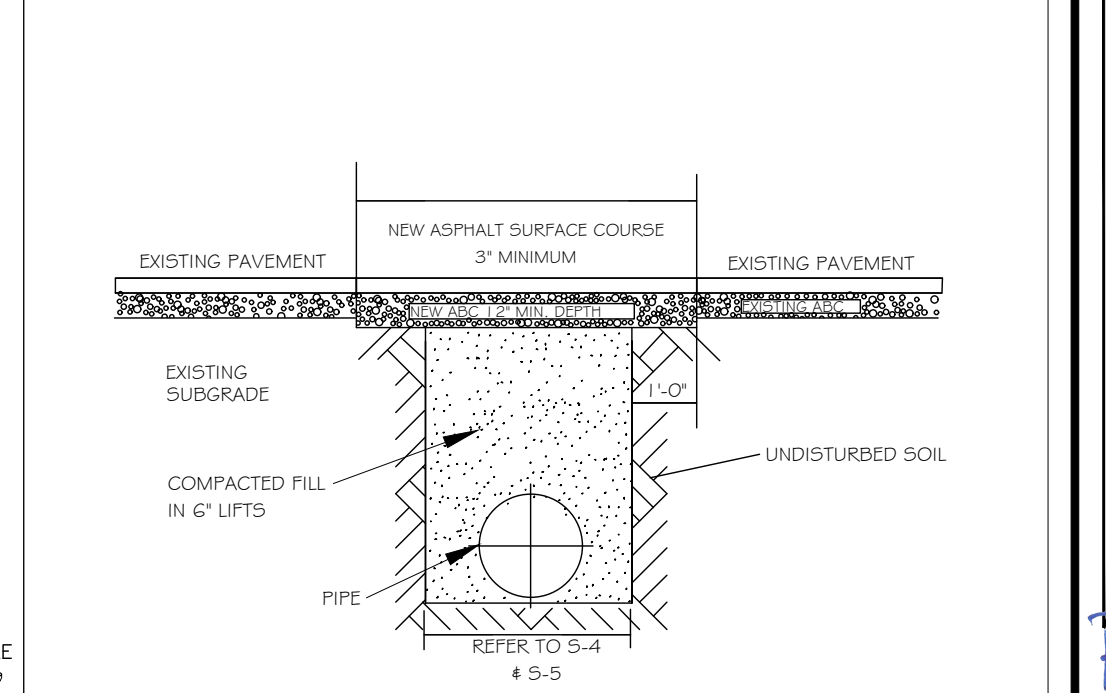
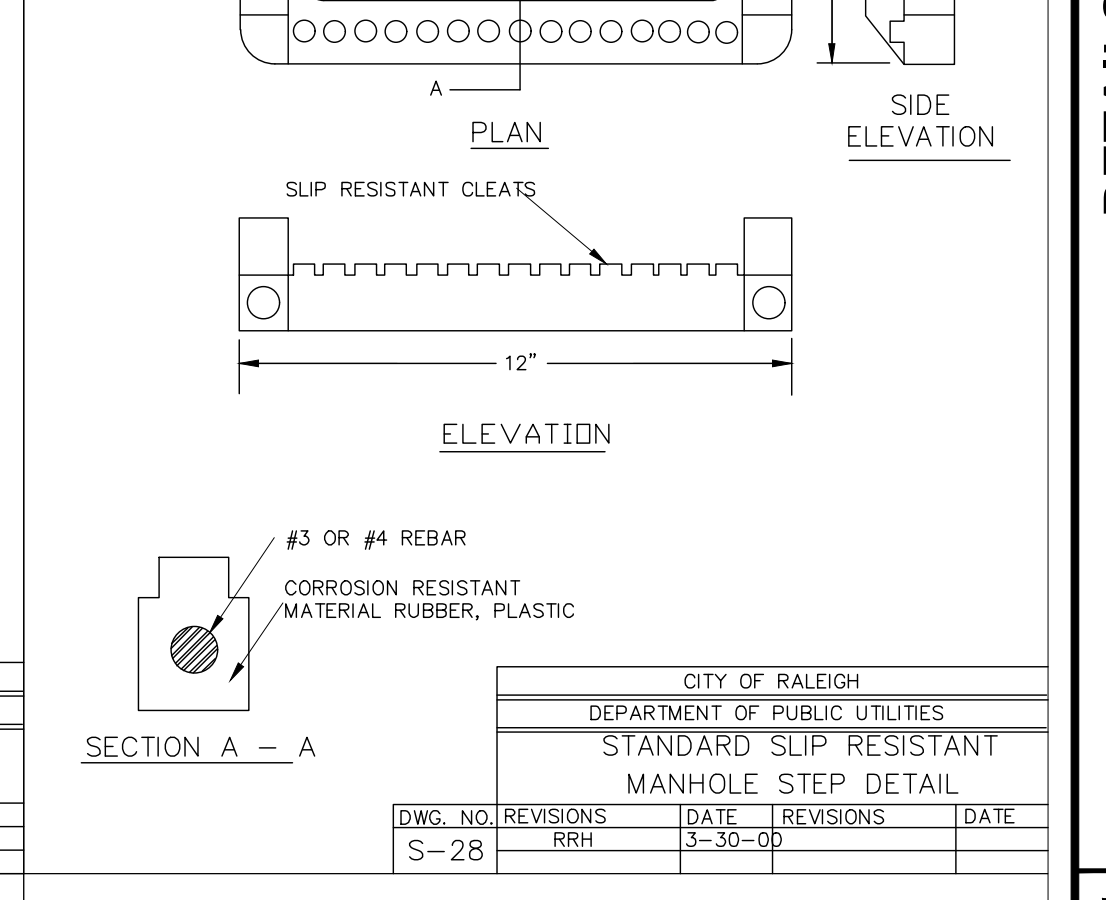
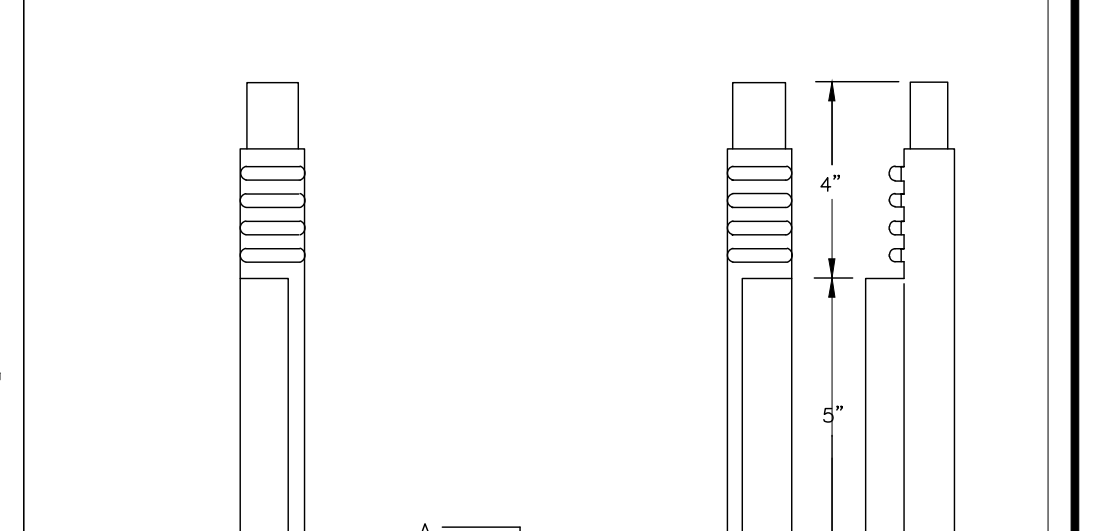
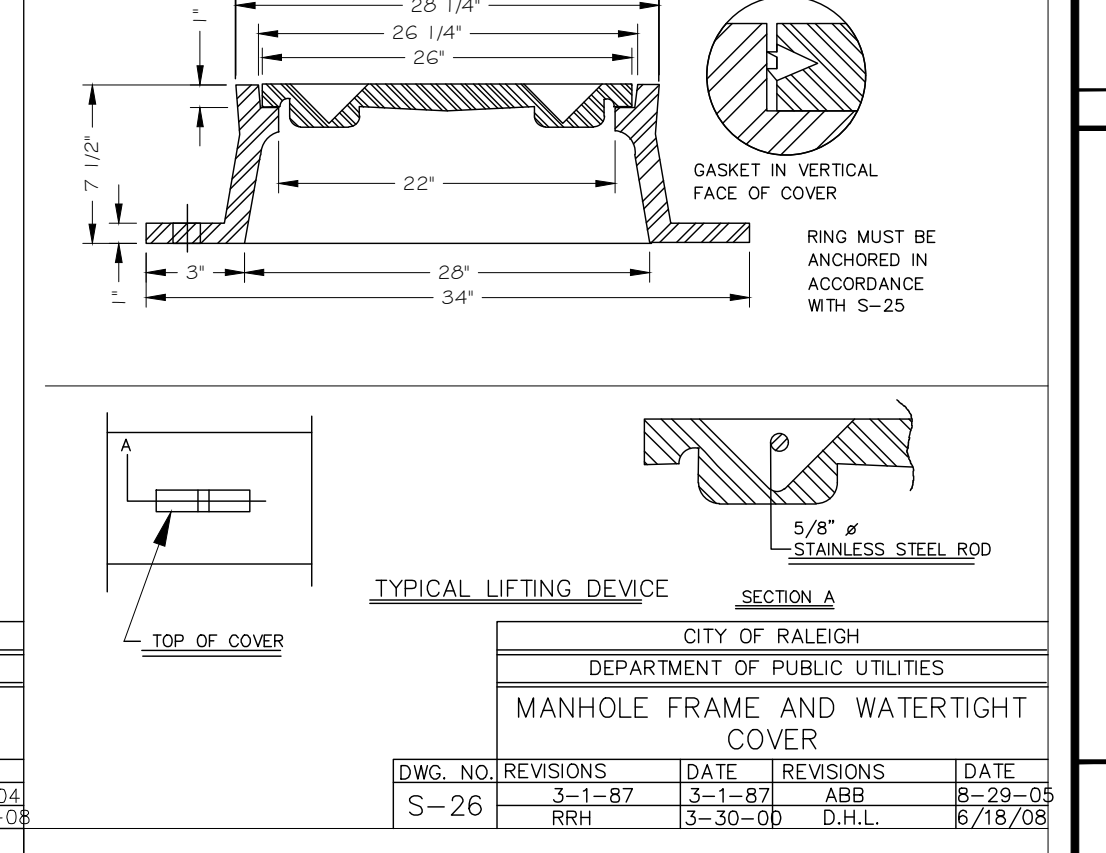
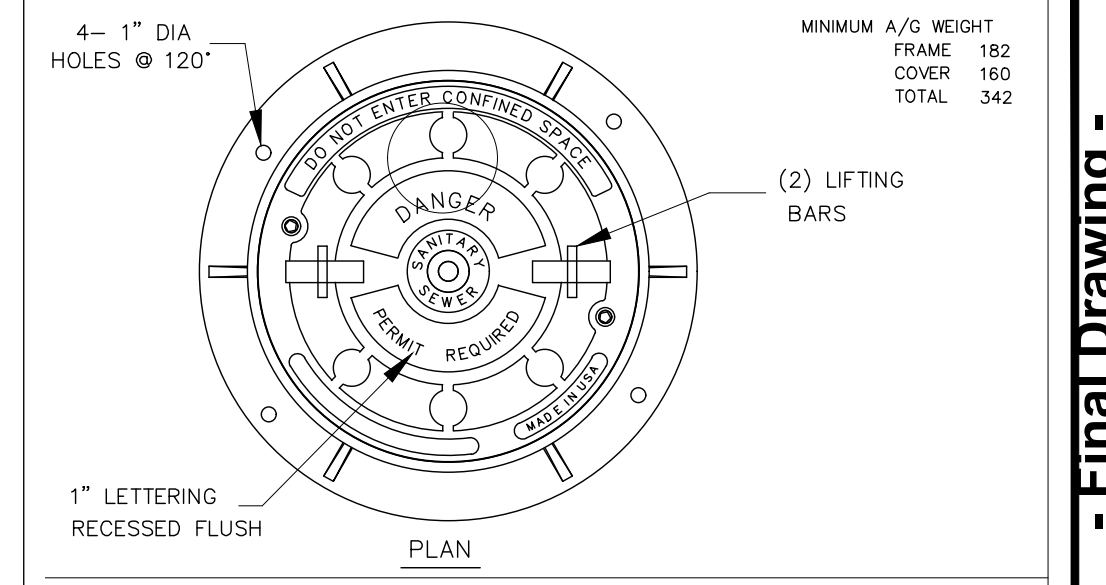
| CITY OF RALEIGH | | | | | |
|---|-----------|---------|-----------|---------|------|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| LATERAL SADDLE INSTALLATION DETAIL FOR PVC PIPE | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | DATE |
| S-30 | | 6-92 | A.B.B. | 4-8-04 | |
| | | 3-30-00 | D.H.L. | 6-18-08 | |



| CITY OF RALEIGH | | | | | |
|--------------------------------|-----------|---------|-----------|---------|------|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| 4" CLEANOUT PLUG | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | DATE |
| S-34 | | 3-1-87 | RRH | 3-30-00 | |
| | | 1-27-94 | | | |



| CITY OF RALEIGH | | | | | |
|--------------------------------|-----------|---------|-----------|---------|------|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| STANDARD MANHOLE COVER | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | DATE |
| S-25 | | 3-1-87 | A.B.B. | 2-9-05 | |
| | | 3-30-00 | D.H.L. | 6-18-08 | |



- NOTES:**
1. IN NC DOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL TAKE PRECEDENCE.
 2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAWCUT MACHINE.
 3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NC DOT.
 4. THE FINAL 1" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NC DOT.
 5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.
 6. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
 7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
 8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (S-4 & S-5) FOR ADDITIONAL DETAILS.
 9. NO HAND PATCHING ALLOWED.
 10. PAVEMENT CUTS WITHIN NC DOT ROW SHALL CONFORM TO THE APPROVED ON-SITE ENCROACHMENT PERMIT.

| CITY OF RALEIGH | | | | | |
|--|-----------|---------|-----------|---------|------|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| STANDARD ASPHALT PAVEMENT PATCH DETAIL | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | DATE |
| S-3 | | 1-1-99 | A.B.B. | 4-19-04 | |
| | | 3-30-00 | J.F.S. | 1-26-10 | |

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S-_____

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

- Final Drawing -
Issued for Permit
Review Purposes Only

REVISIONS:

| # | DATE | DESCRIPTION |
|---|------------|---------------------------------------|
| 1 | 11-13-2024 | REVISED PER REVIEWER & OWNER COMMENTS |
| 2 | 12-12-2024 | REVISED PER REVIEWER & OWNER COMMENTS |
| 3 | 1-14-2025 | REVISED PER REVIEWER & OWNER COMMENTS |
| 4 | 1-14-2025 | REVISED PER REVIEWER & OWNER COMMENTS |
| 5 | 1-14-2025 | REVISED PER REVIEWER & OWNER COMMENTS |
| 6 | 1-14-2025 | ISSUED FOR PERMIT REVIEW |

CROSLAND SOUTHEAST

DETAILS

WALLBROOK ROADWAY IMPROVEMENTS
VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
Town of Rolesville Project No. CID 23-04
US 401 Business / S. Main Street & Virginia Water Drive
Wake Forest Township, Town of Rolesville, Wake County, North Carolina

ARK CONSULTING GROUP PLLC
ENGINEERS & PLANNERS

NC License: P-1129

925-A Cornersville Dr.
Cary, NC 27513-7858
(252) 558-0888
www.arkconsultinggroup.com

Professional Engineer
CARY, N.C. #31970

9/15/2024

Project Manager: BCF
Drawn By: DLCTGN
Checked By: TGN
Project Number: 22049
Drawing Number: D-1404-CID

C4.2

Date: May 1, 2023

GENERAL NOTES:

- THIS ALTA/NSPS LAND TITLE SURVEY WAS PREPARED FOR THE BENEFIT OF WALLBROOK LANDCO, LLC, ITS SUCCESSORS AND/OR ASSIGNS AS THEIR INTERESTS MAY APPEAR, AND INVESTORS TITLE INSURANCE COMPANY.
- THE PROPERTY AS SHOWN HEREON IS BASED ON A FIELD-RUN BOUNDARY SURVEY WITH A RAW CLOSURE OF 1:35,900.
- THE IMPROVEMENTS SHOWN HEREON ARE BASED ON A FIELD-RUN PLANIMETRIC SURVEY PERFORMED BY JOHNSON, MIRMIRAN & THOMPSON FROM MARCH 16 THROUGH MARCH 19, 2020 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
- ELEVATIONS ARE BASED ON NAVD88 DATUM.
- THE SURVEY IS REFERENCED TO THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM (NCSPCS), NORTH AMERICAN DATUM, 1983, 2001 ADJUSTMENT, NAD83(2001).
- THE USE OF THE WORD CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL'S KNOWLEDGE, INFORMATION AND BELIEF, AND IN ACCORDANCE WITH THE COMMONLY ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED.
- THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X, AREA OF MINIMAL FLOODING, AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP (FIRM), WAKE COUNTY, NORTH CAROLINA, PANEL 1758, MAP NO. 3720175800J, EFFECTIVE DATE: MAY 2, 2006.
- AT THE TIME OF THE SURVEY, THERE WERE NO PARKING SPACES.
- AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF THE SITE BEING USED AS A SOLID WASTE DUMP, SUMP OR LANDFILL.
- AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF A CEMETERY.
- AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

SETBACK REQUIREMENTS:

FRONT: 30'
SIDE: 15'
CORNER: 25'
REAR: 35'

(ZONING INFORMATION BASED ON INFORMATION AS SUPPLIED BY CURRENT COUNTY ZONING DEPARTMENT, NO ZONING REPORT OR LETTER WAS PROVIDED TO SURVEYOR AT TIME OF SURVEY.)

RECORD LEGAL DESCRIPTION

PER INVESTORS TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 202000244CA2, WITH AN EFFECTIVE DATE OF MARCH 6, 2020 AT 5:00 P.M.:

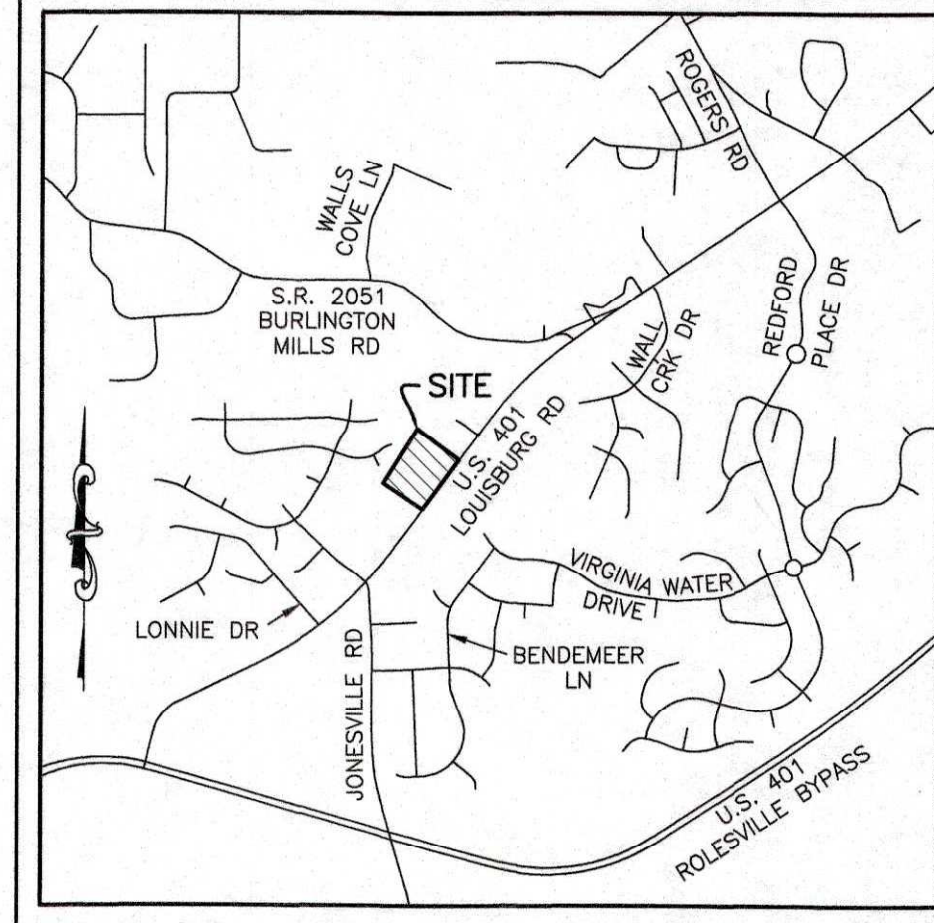
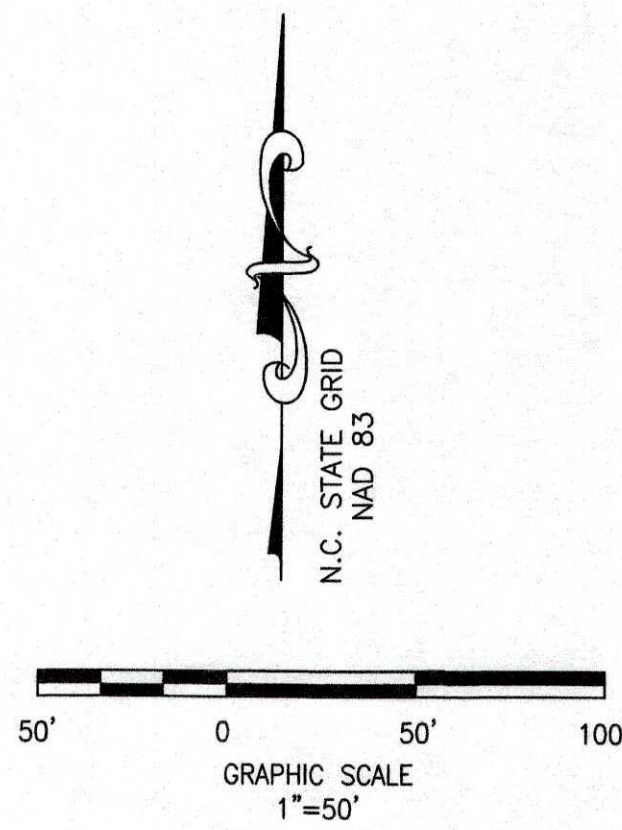
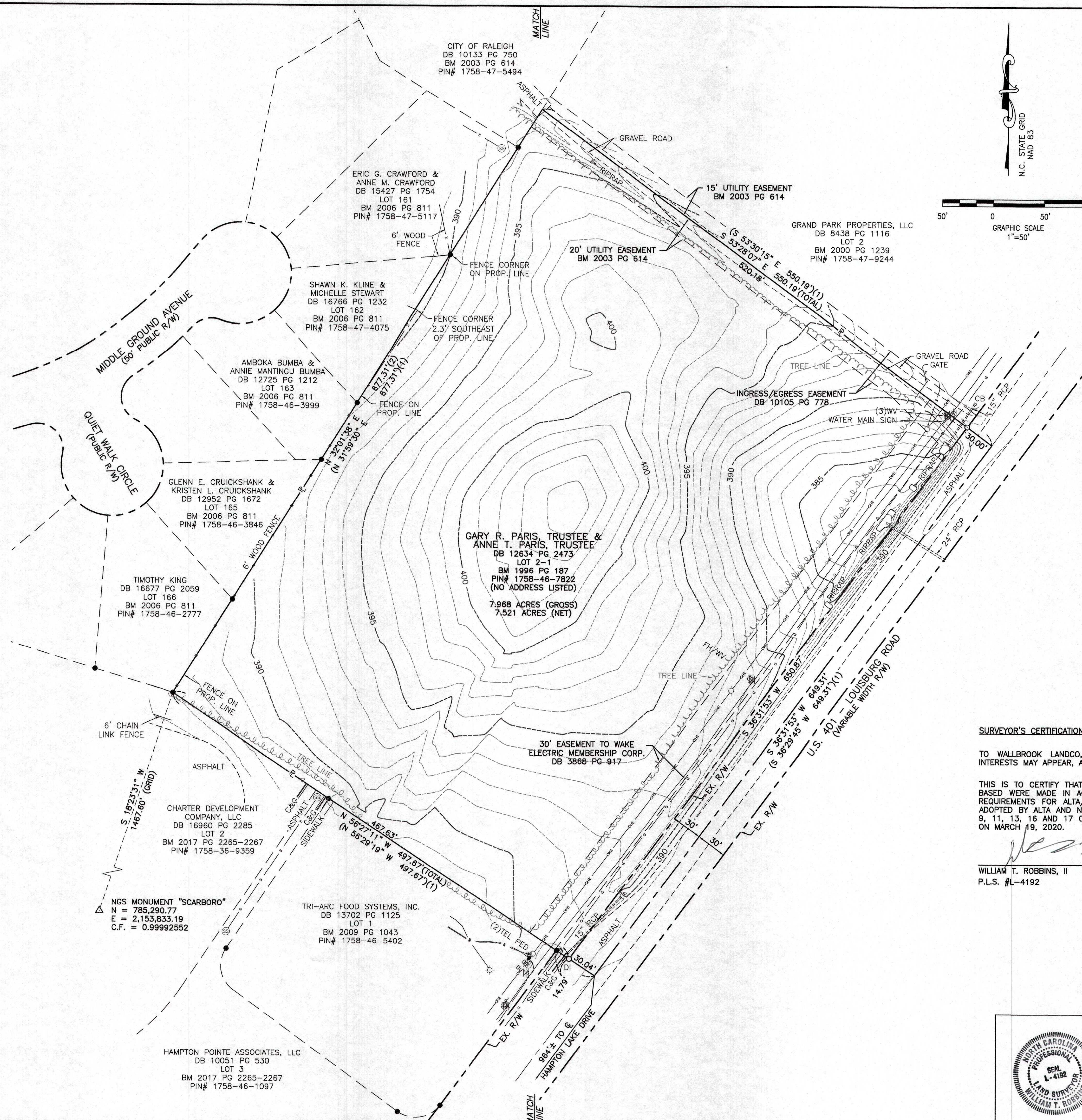
IN THE STATE OF NC, COUNTY OF WAKE,

BEING ALL OF LOT 2-1 OF THAT PLAT ENTITLED "PRELIMINARY SUBDIVISION PLAT AND RECOMBINATION SURVEY FOR TOMMY TWITTY," A COPY OF WHICH IS RECORDED IN BOOK OF MAPS 1996, PAGE 187, WAKE COUNTY REGISTRY.

SCHEDULE B, PART II EXCEPTIONS:

PER INVESTORS TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 202000244CA2, WITH AN EFFECTIVE DATE OF MARCH 6, 2020 AT 5:00 P.M.:

- (ITEM 3) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO CITY OF RALEIGH RECORDED IN BOOK 10105 AT PAGE 778. [PLOTTED HEREON]
- (ITEM 4) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO WAKE ELECTRIC MEMBERSHIP CORPORATION RECORDED IN BOOK 3868 AT PAGE 917. [PLOTTED HEREON]
- (ITEM 5) TITLE TO THAT PORTION OF THE LAND WITHIN THE RIGHT-OF-WAY OF U.S. HIGHWAY 401 (LOUISBURG ROAD). [PLOTTED HEREON]
- (ITEM 6) MATTERS SHOWN ON RECORDED BOOK OF MAPS 1996 AT PAGE 187 SHOWS THE FOLLOWING LOCATED ON THE LAND:
 - OVERHEAD LINE [PLOTTED HEREON]
 - POWER POLE [PLOTTED HEREON]
 - RIGHT OF WAY FOR U.S. HIGHWAY 401 (LOUISBURG ROAD) [PLOTTED HEREON]



VICINITY MAP
SCALE: 1"=2000'

LEGEND

- (1) = RECORD DATA PER BM 1996 PG 187
- (2) = RECORD DATA PER BM 2006 PG 811
- = FOUND IRON PIPE
- = SET IRON PIN
- △ = NGS MONUMENT
- = PROPERTY LINE
- R/W = RIGHT OF WAY
- CB = CATCH BASIN
- C&G = CURB AND GUTTER
- = CENTERLINE
- DI = DROP INLET
- FH = FIRE HYDRANT
- LP = LIGHT POLE
- PP = POWER POLE
- RCP = REINFORCED CONCRETE PIPE
- = SIGN
- = SANITARY SEWER MANHOLE
- = TELEPHONE PEDESTAL
- WM = WATER METER
- WV = WATER VALVE
- = ELECTRIC LINE
- = GAS LINE
- = OVERHEAD ELECTRIC LINE
- = SANITARY SEWER LINE
- = TELEPHONE LINE
- = WATER LINE

SURVEYOR'S CERTIFICATION:

TO WALLBROOK LANDCO, LLC, ITS SUCCESSORS AND/OR ASSIGNS AS THEIR INTERESTS MAY APPEAR, AND INVESTORS TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6A, 7A, 7B1, 8, 9, 11, 13, 16 AND 17 OF TABLE "A" THEREOF. THE FIELDWORK WAS COMPLETED ON MARCH 19, 2020.

William T. Robbins, II
WILLIAM T. ROBBINS, II
P.L.S. #L-4192
DATE: 2/28/2020

JMT JOHNSON, MIRMIRAN & THOMPSON
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EMAIL: jmtva@jmt-engineering.com

| REVISION # | DATE | REASON FOR REVISION |
|------------|------|---------------------|
| | | |



ALTA/NSPS LAND TITLE SURVEY
PREPARED FOR
WALLBROOK LANDCO, LLC
WAKE FOREST TOWNSHIP
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
DRAWN BY: JSZ PROJECT#: JMT# 20-00915-001
CHECKED BY: WTR CONTRACT#: DATE: 03/28/2020 SCALE: 1"=50' SHEET 1 OF 1

