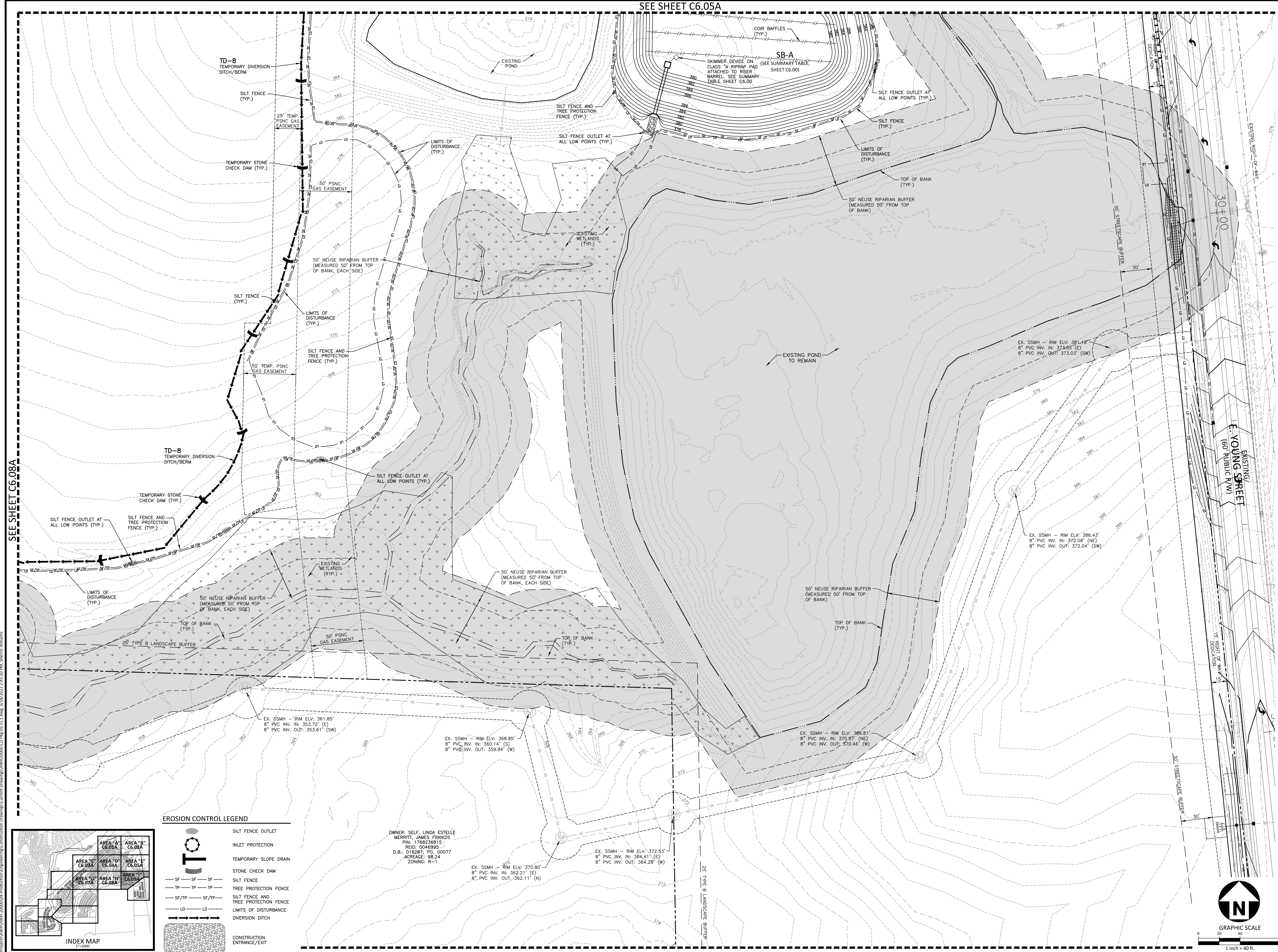
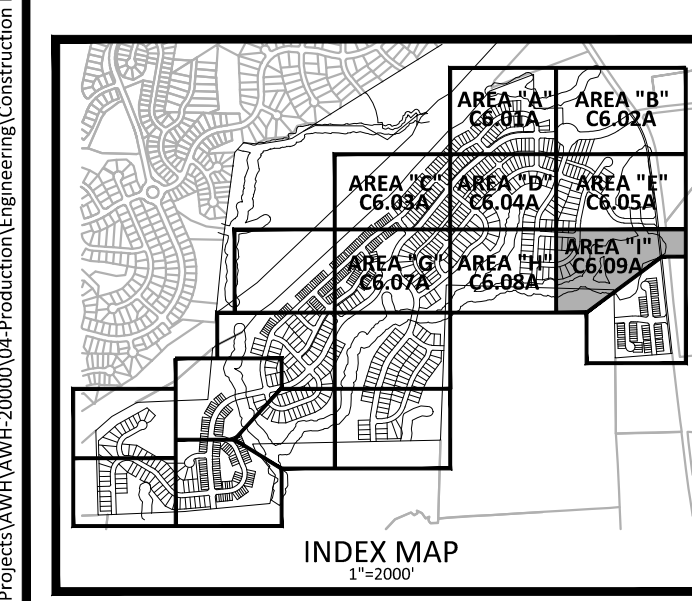


SEE SHEET C6.05A



SEE SHEET C6.08A

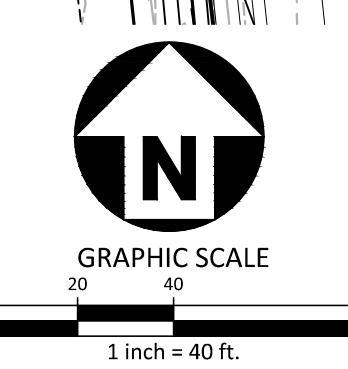
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EROSION CONTROL LEGEND

	SILT FENCE OUTLET
	INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	STONE CHECK DAM
	SILT FENCE
	TREE PROTECTION FENCE
	SILT FENCE AND TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
	DIVERSION DITCH
	CONSTRUCTION ENTRANCE/EXIT

OWNER: SELF, LINDA ESTELLE MERRITT, JAMES FRANCIS
 PIN: 1766236815
 REID: 0046995
 D.B.: 016287, PG. 00077
 ACRAGE: 98.24
 ZONING: R-1



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 fax 919. 361. 2269
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 www.mcadamsco.com

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 ASHTON RALEIGH RESIDENTIAL, LLC.
 5711 SIX FORKS ROAD, SUITE 300
 RALEIGH, NORTH CAROLINA 27609
 PHONE: 919. 232. 3695
 CONTACT: BOB MISHLER



THE POINT
PHASES 1, 2, 6 AND 9
 CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

W.T. O'Daniel
 Mar 21 2022 8:58 AM
 DecoSign

REVISIONS





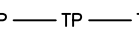

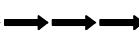



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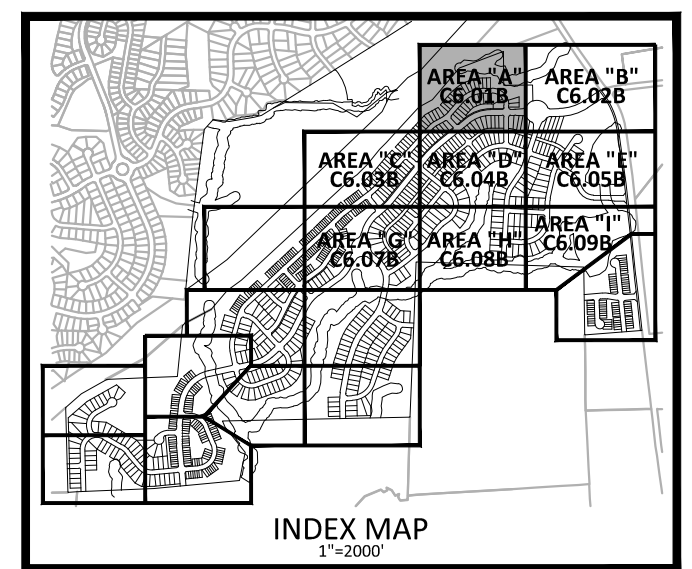
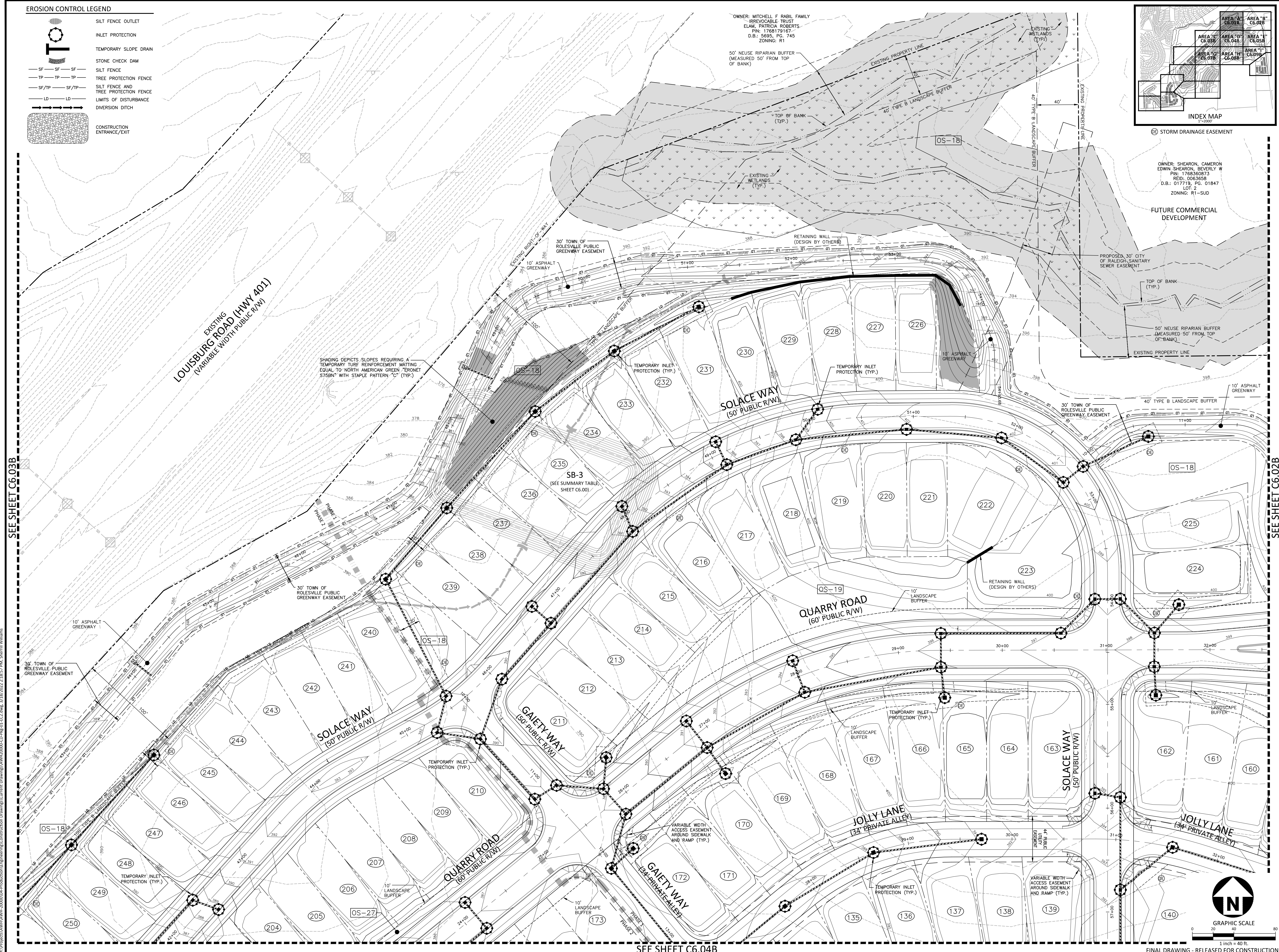
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 FILENAME AWH20000-CD-PKG-01-ECL
 CHECKED BY .
 DRAWN BY .
 SCALE 1"=40'
 DATE 03. 21. 2022

SHEET
EROSION CONTROL PLAN
STAGE 1
AREA "I"
C6.09A

EROSION CONTROL LEGEND

-  SILT FENCE OUTLET
-  INLET PROTECTION
-  TEMPORARY SLOPE DRAIN
-  STONE CHECK DAM
-  SILT FENCE
-  TREE PROTECTION FENCE
-  SILT FENCE AND TREE PROTECTION FENCE
-  LIMITS OF DISTURBANCE
-  DIVERSION DITCH
-  CONSTRUCTION ENTRANCE/EXIT




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ASHTON WOODS

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 WAKE COUNTY, NORTH CAROLINA


 Todd O'Daniel
 Mar 21 2022 9:00 AM

REVISIONS

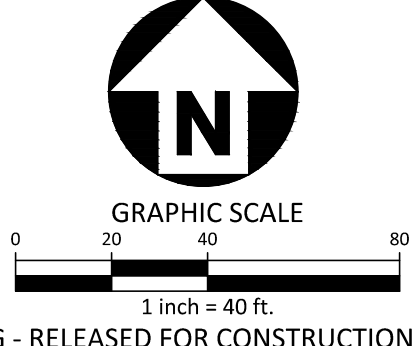
NO.	DATE

PLAN INFORMATION

PROJECT NO. AWH-20000
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 CHECKED BY
 DRAWN BY
 SCALE 1"=40'
 DATE 03.21.2022

SHEET

EROSION CONTROL PLAN
STAGE 2
AREA "A"
C6.01B



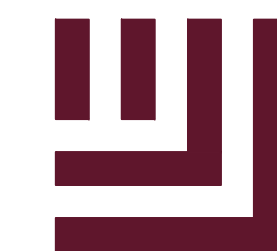
SEE SHEET C6.03B

SEE SHEET C6.02B

SEE SHEET C6.04B

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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PHONE: 919. 232. 3695
CONTACT: BOB MISHLER



ASHTON WOODS

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



William T. O'Daniel
Mar 21 2022 9:00 AM

REVISIONS

NO. DATE

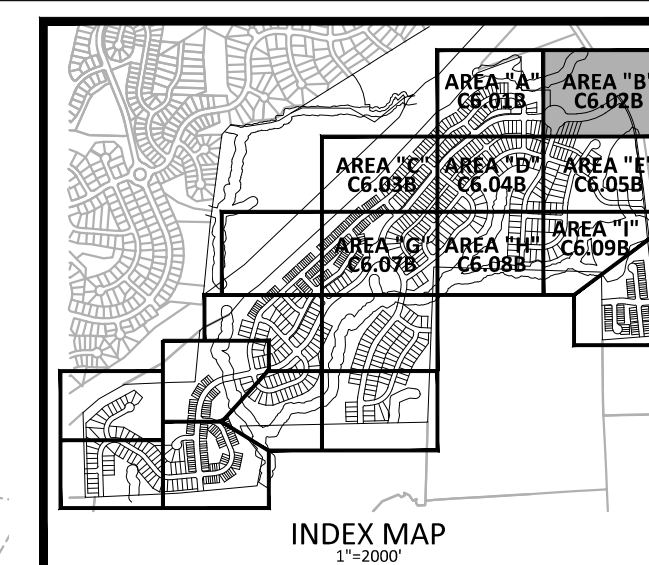
PLAN INFORMATION

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CHECKED BY
DRAWN BY
SCALE 1"=40'
DATE 03.21.2022

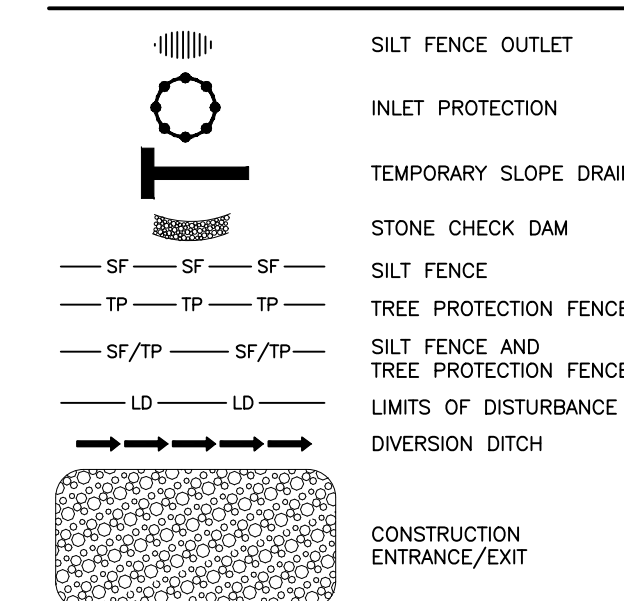
SHEET

EROSION CONTROL PLAN
STAGE 2
AREA "B"

C6.02B



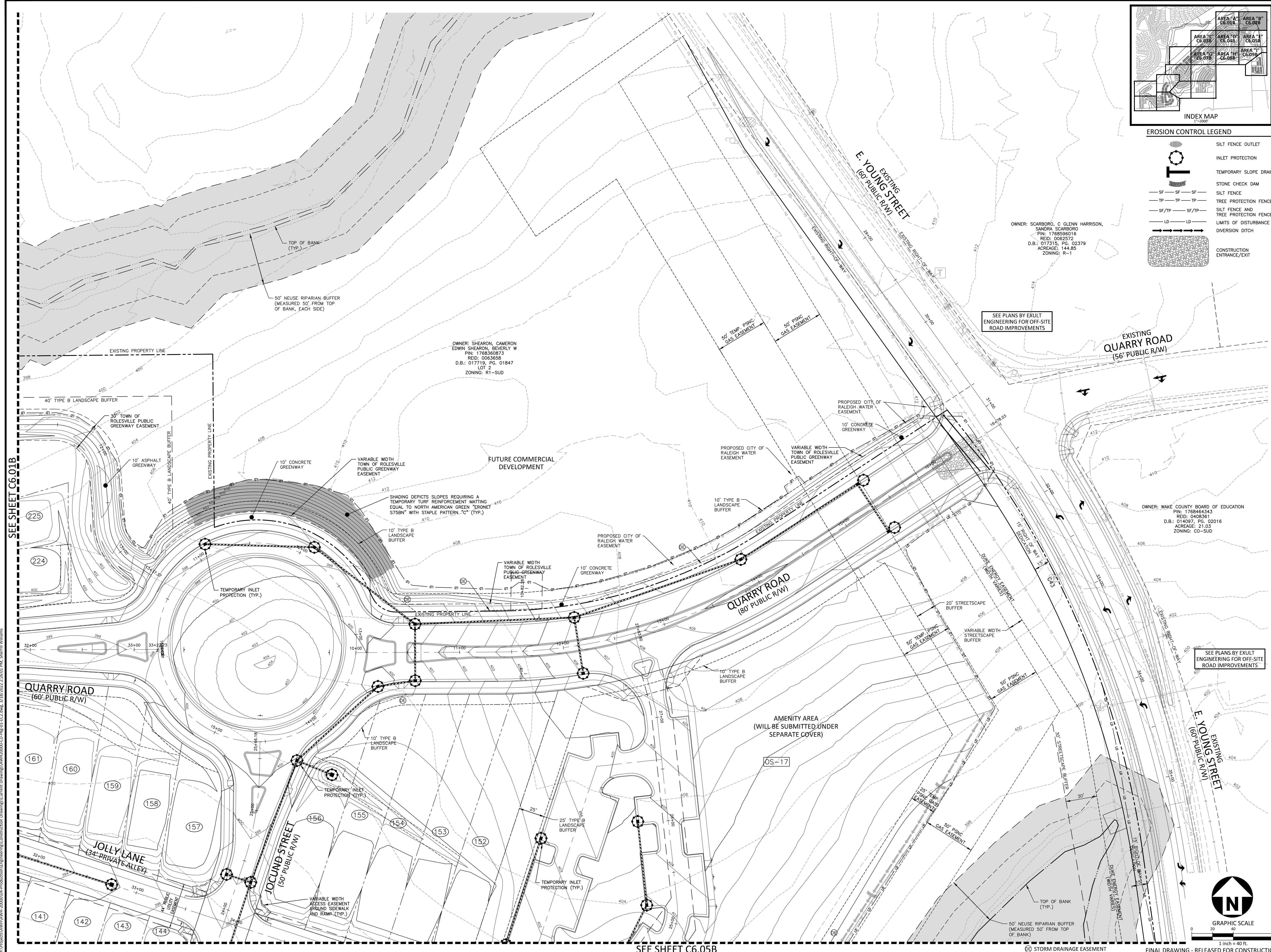
EROSION CONTROL LEGEND



OWNER: SCARBORO, C GLENN HARRISON,
SANDRA SCARBORO
PIN: 1768596016
REID: 0062572
D.B.: 017719, PG. 02379
ACREAGE: 144.85
ZONING: R-1

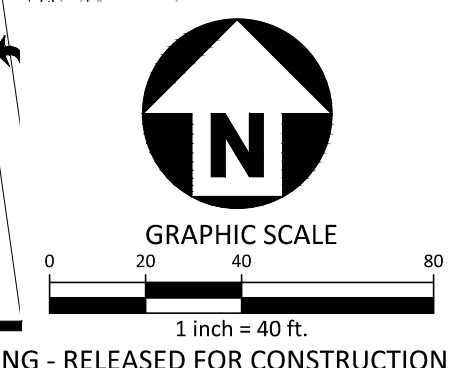
OWNER: SHEARON, CAMERON
EDWIN SHEARON, BEVERLY W
PIN: 1758830873
REID: 0063658
D.B.: 017719, PG. 01847
LOT 2
ZONING: R1-SUD

OWNER: WAKE COUNTY BOARD OF EDUCATION
PIN: 1768444343
REID: 0405361
D.B.: 014097, PG. 02016
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ZONING: CO-SUD

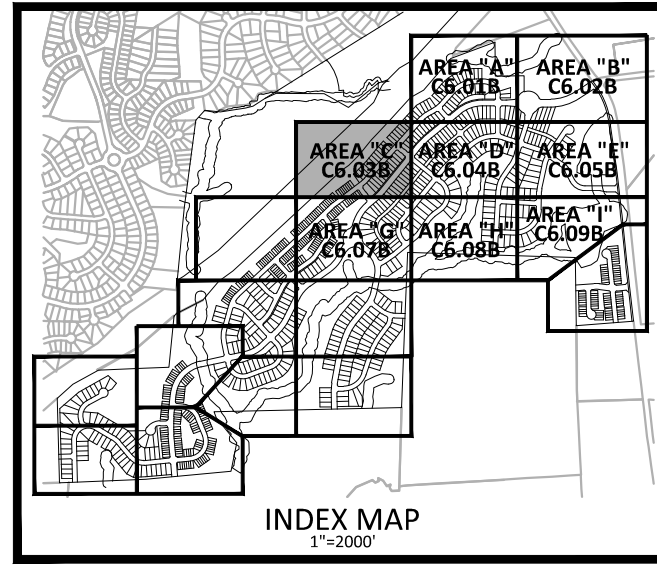


SEE SHEET C6.01B

SEE SHEET C6.05B

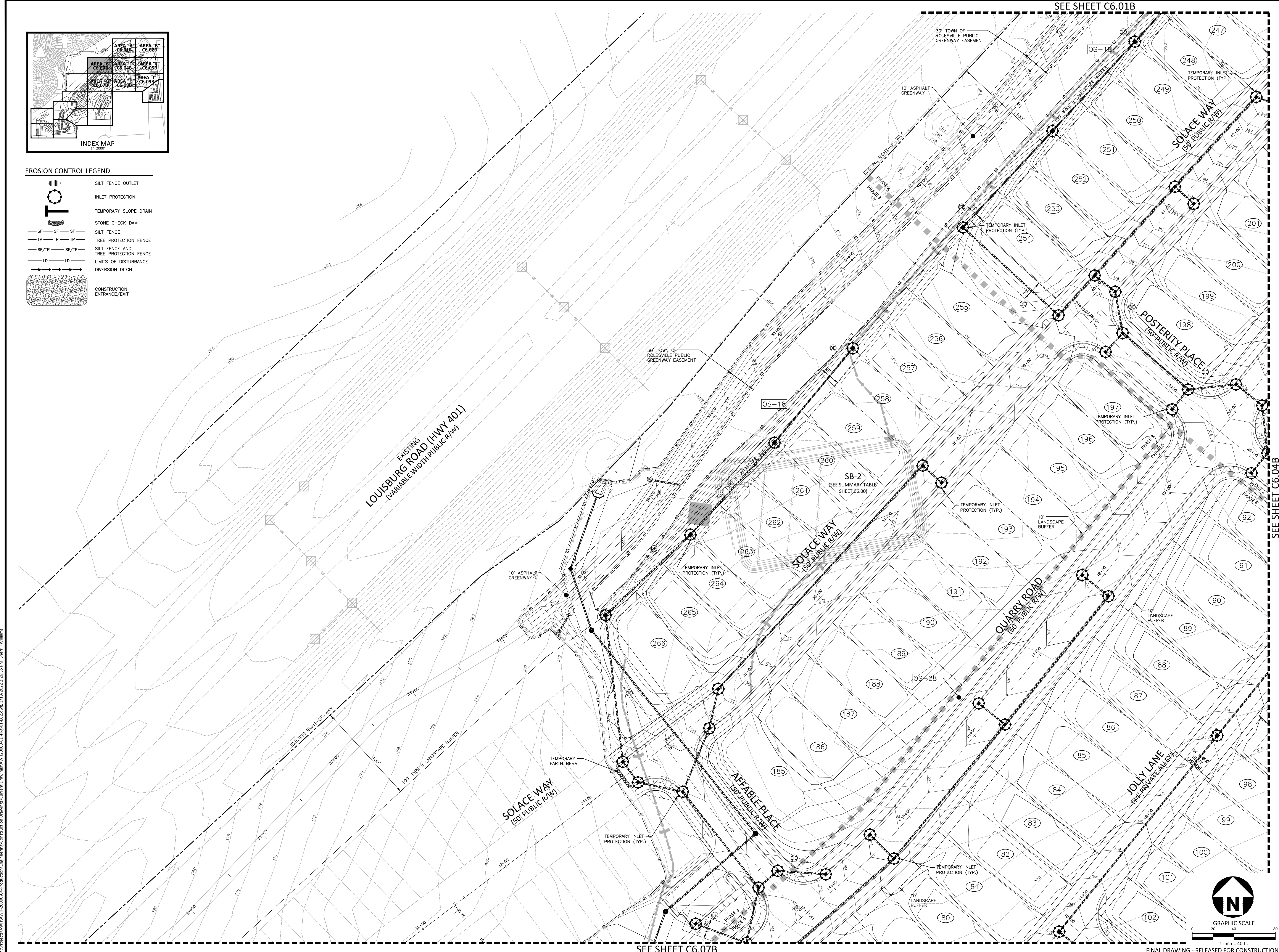


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EROSION CONTROL LEGEND

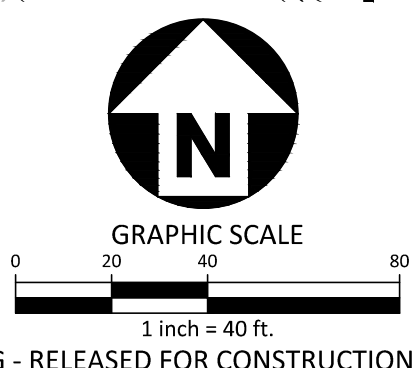
- SILT FENCE OUTLET
- INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- STONE CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- SILT FENCE AND TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT



SEE SHEET C6.01B

SEE SHEET C6.04B

SEE SHEET C6.07B



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PHONE: 919. 232. 3695
CONTACT: BOB MISHLER



ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



W.T. O'Daniel
Mar 21 2022 9:01 AM

REVISIONS

NO.	DATE

PLAN INFORMATION

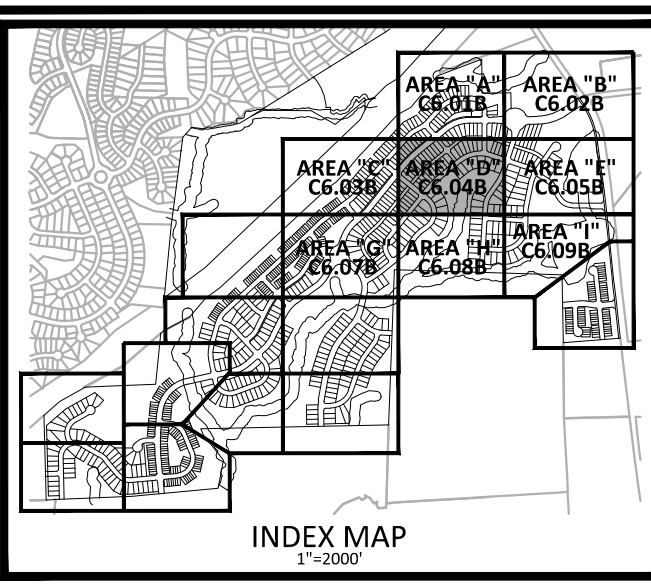
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FILENAME	AWH20000-CD-PKG-01-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	03. 21. 2022

SHEET
EROSION CONTROL PLAN
STAGE 2
AREA "C"

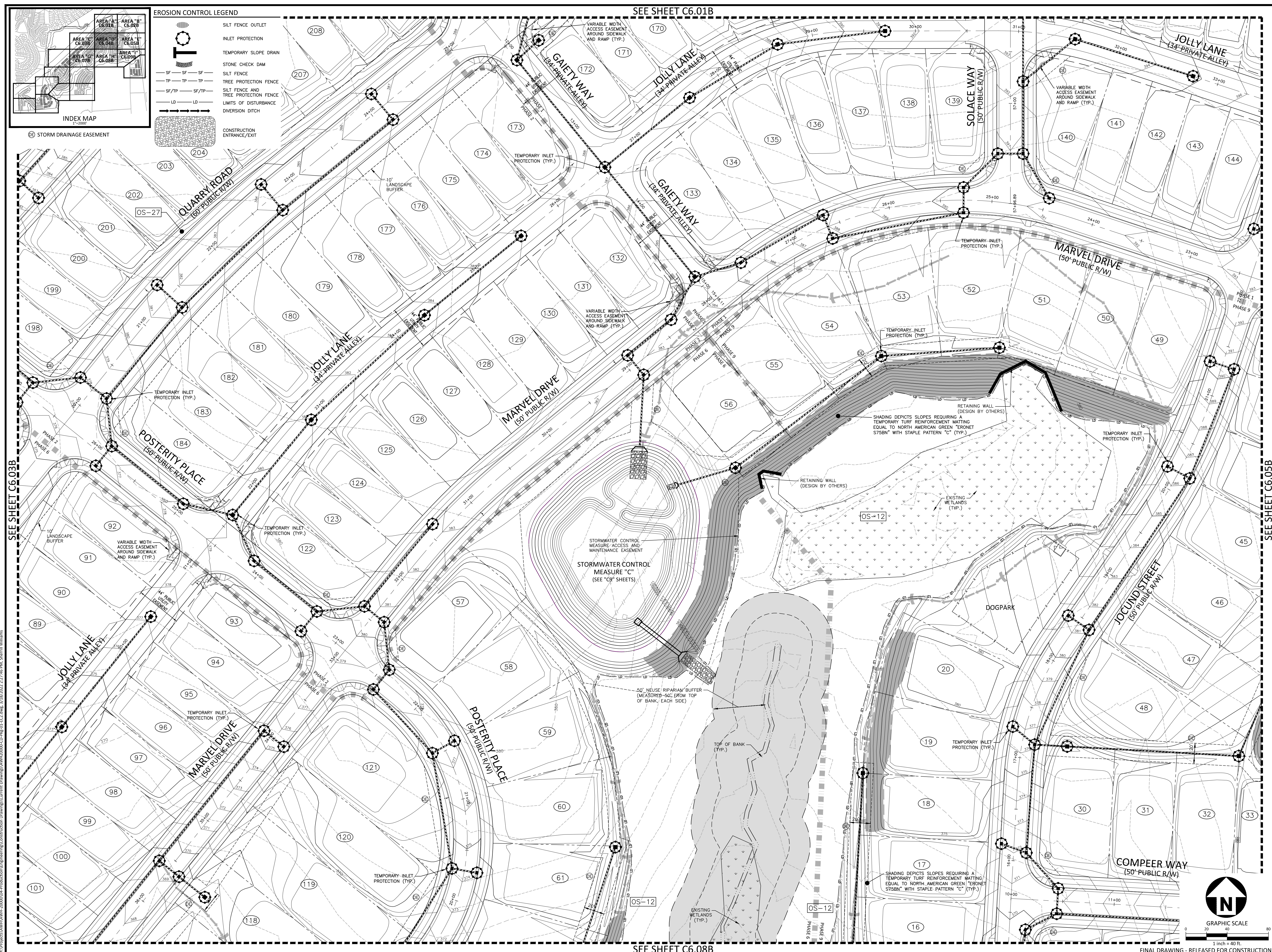
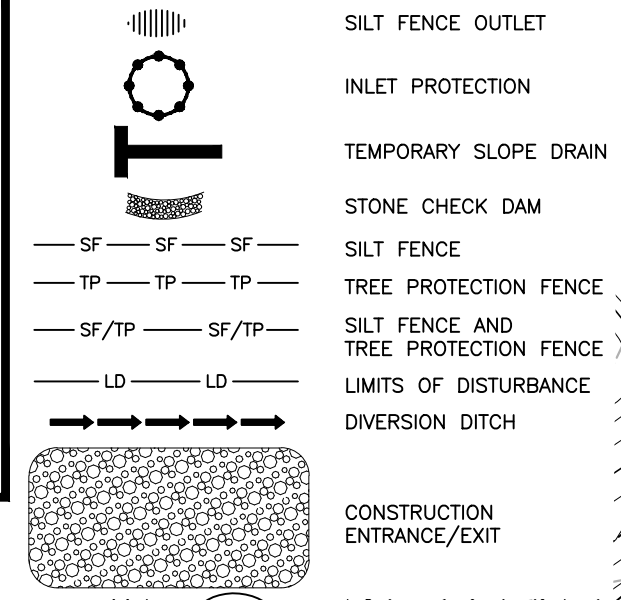
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SEE SHEET C6.01B



EROSION CONTROL LEGEND



SEE SHEET C6.08B

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CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



W.T. O'Daniel
Mar 21 2022 9:01 AM
DocuSign

REVISIONS

NO.	DATE

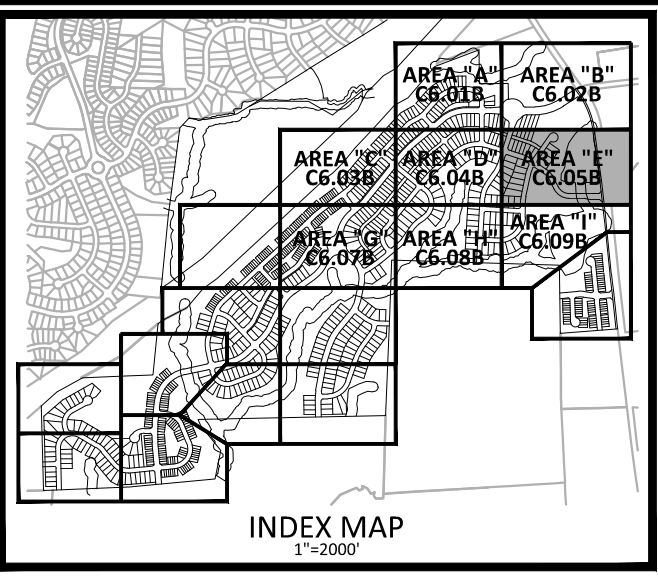
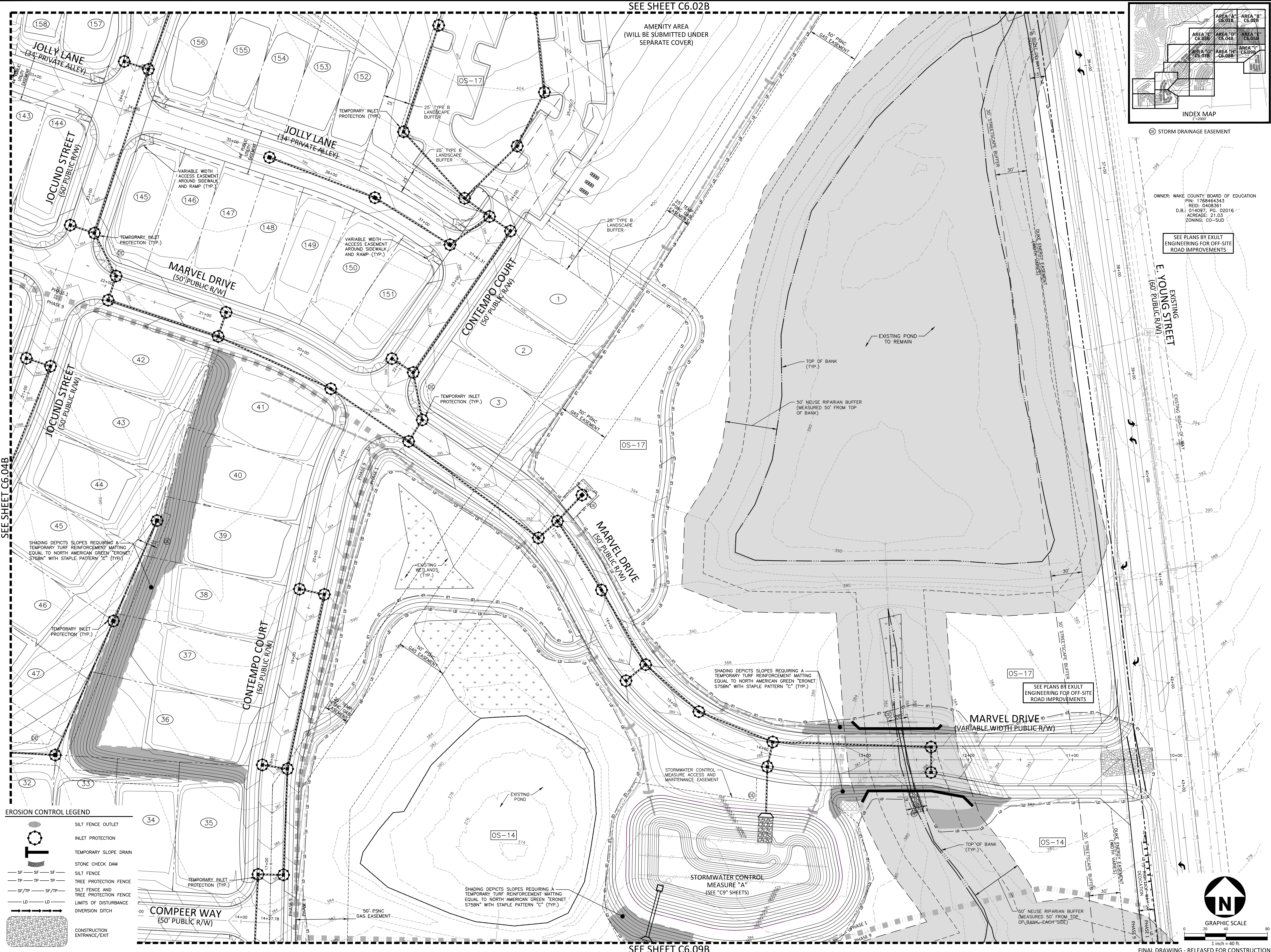
PLAN INFORMATION

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CHECKED BY .
DRAWN BY .
SCALE 1"=40'
DATE 03.21.2022

SHEET
EROSION CONTROL PLAN
STAGE 2
AREA "D"
C6.04B

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SEE SHEET C6.02B

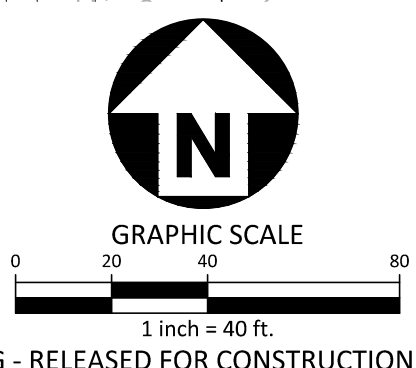
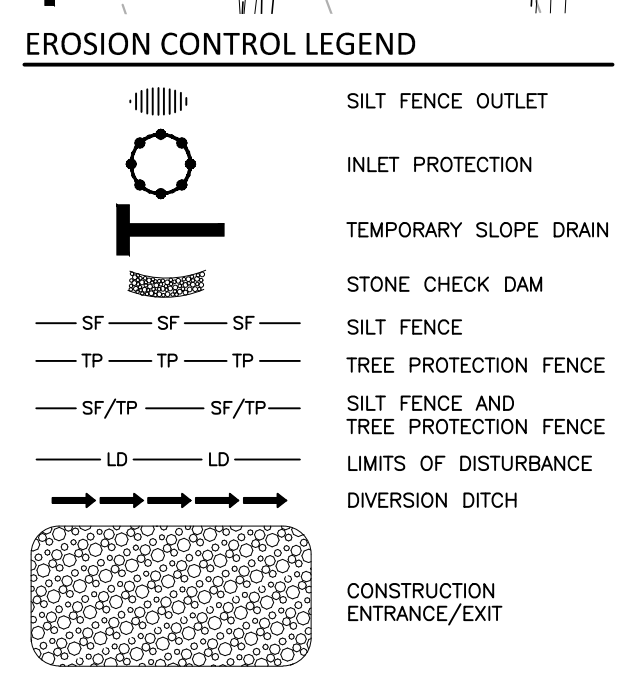


OWNER: WAKE COUNTY BOARD OF EDUCATION
 PINE: 1788464343
 REID: 040831
 D.B.I: 014097, PG: 02016
 ACREAGE: 21.03
 ZONING: CO-SUB

SEE PLANS BY EXULT
 ENGINEERING FOR OFF-SITE
 ROAD IMPROVEMENTS

SEE SHEET C6.04B

SEE SHEET C6.09B



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 RALEIGH, NORTH CAROLINA 27609
 PHONE: 919. 232. 3695
 CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

Todd O'Daniel
 Mar 21 2022 9:01 AM

REVISIONS

NO.	DATE

PLAN INFORMATION

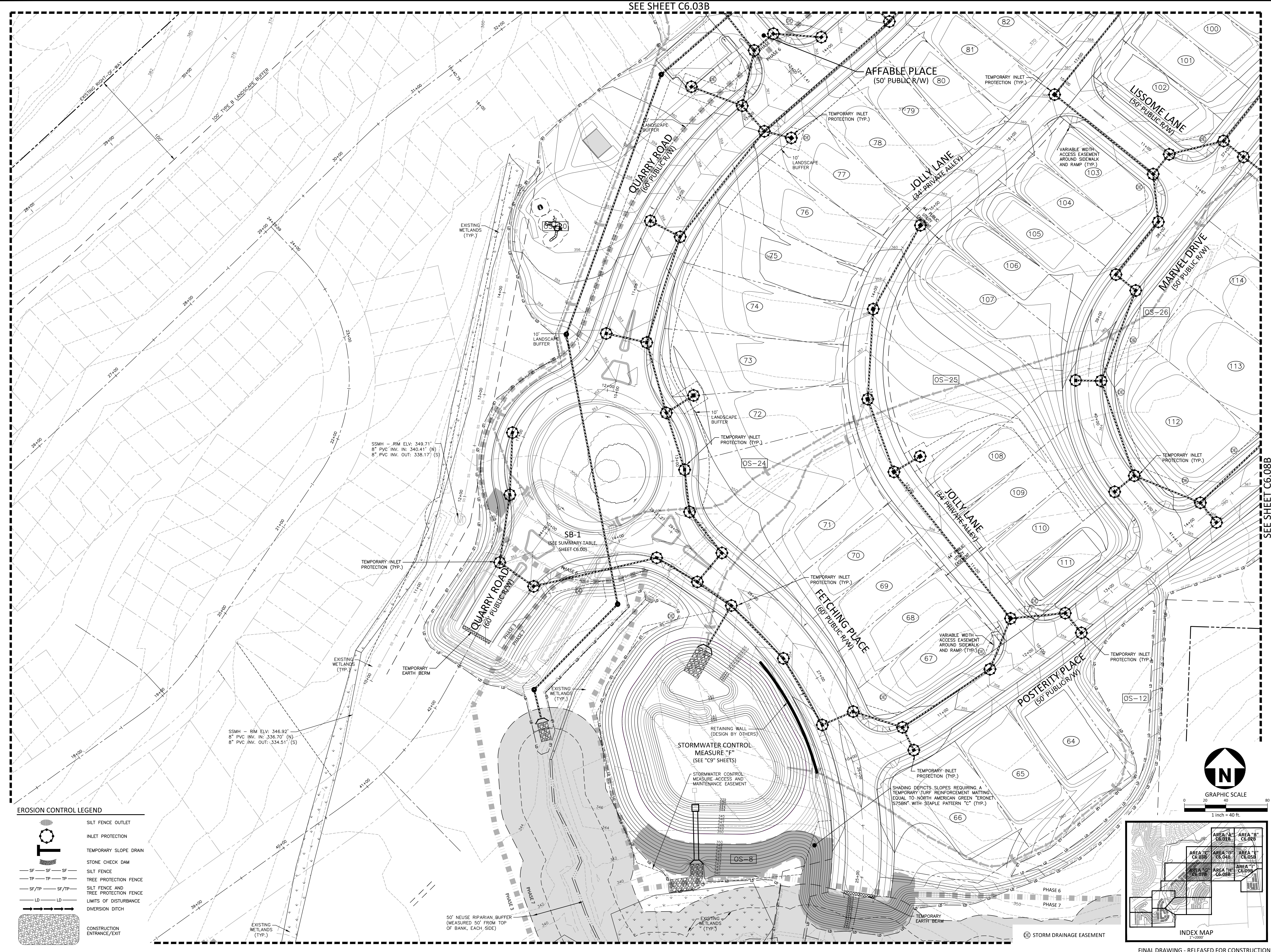
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 CHECKED BY .
 DRAWN BY .
 SCALE 1"=40'
 DATE 03.21.2022

SHEET
EROSION CONTROL PLAN
STAGE 2
AREA "E"
C6.05B

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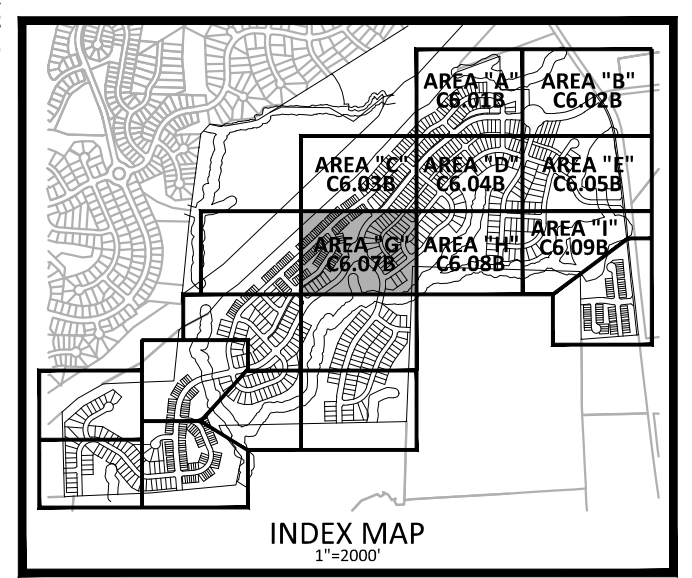
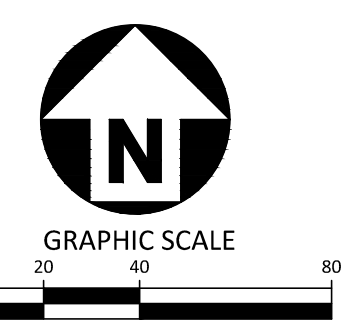
FINAL DRAWING - RELEASED FOR CONSTRUCTION

SEE SHEET C6.03B



EROSION CONTROL LEGEND

	SILT FENCE OUTLET
	INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	STONE CHECK DAM
	SILT FENCE
	TREE PROTECTION FENCE
	SILT FENCE AND TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
	DIVERSION DITCH
	CONSTRUCTION ENTRANCE/EXIT



FINAL DRAWING - RELEASED FOR CONSTRUCTION

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THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

William T. O'Daniel
Professional Engineer
Seal No. 22630
Mar 21 2022 9:02 AM

REVISIONS

NO.	DATE

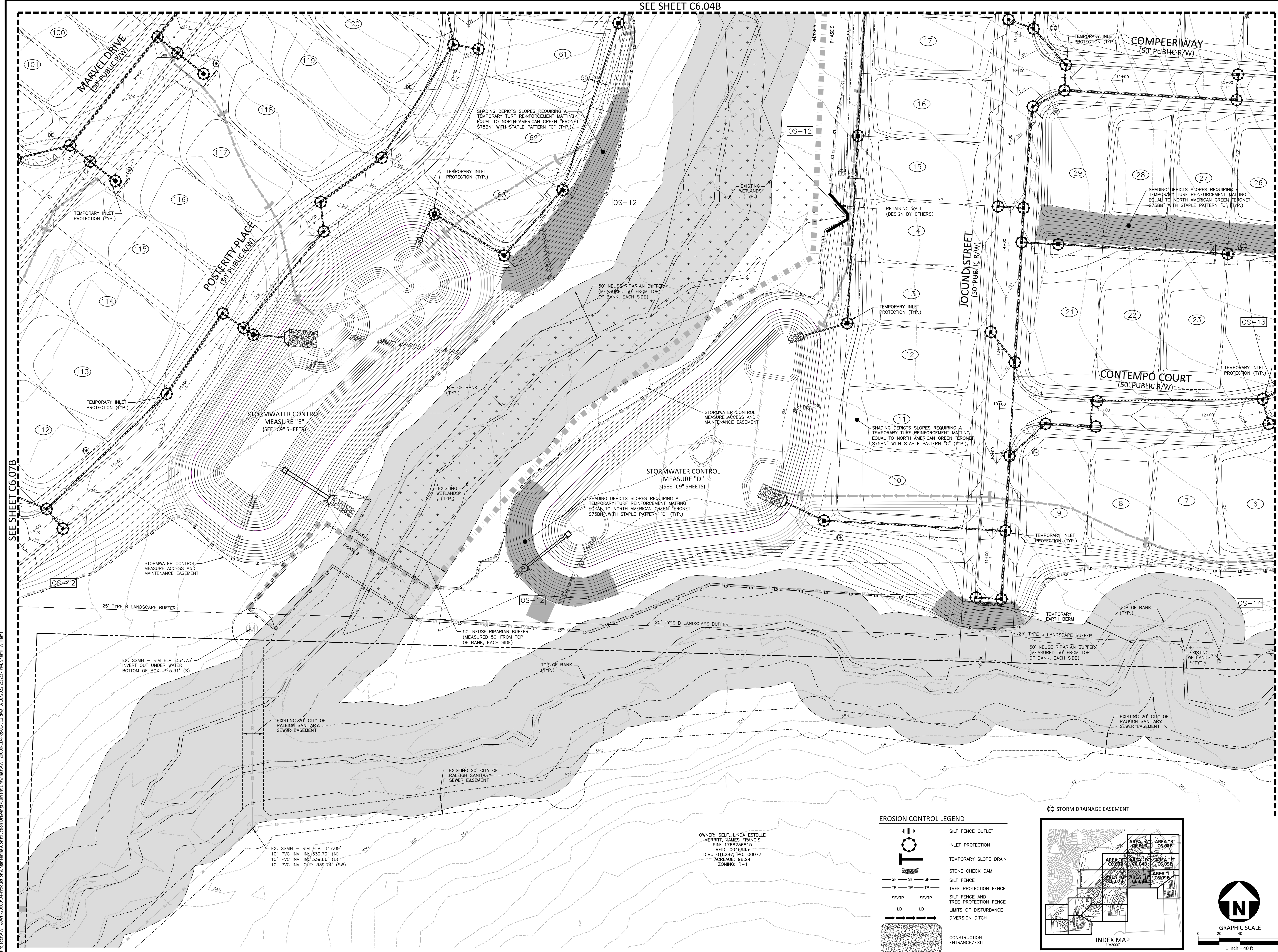
PLAN INFORMATION

PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-EC2
CHECKED BY
DRAWN BY
SCALE 1"=40'
DATE 03.21.2022

SHEET
EROSION CONTROL PLAN
STAGE 2
AREA "G"
C6.07B

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SEE SHEET C6.04B



SEE SHEET C6.07B

SEE SHEET C6.09B

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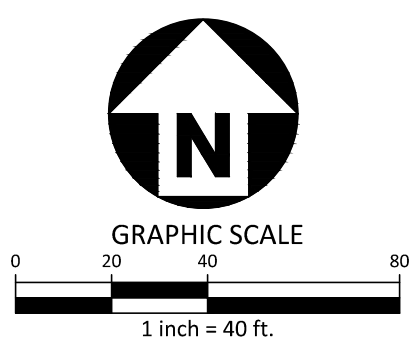
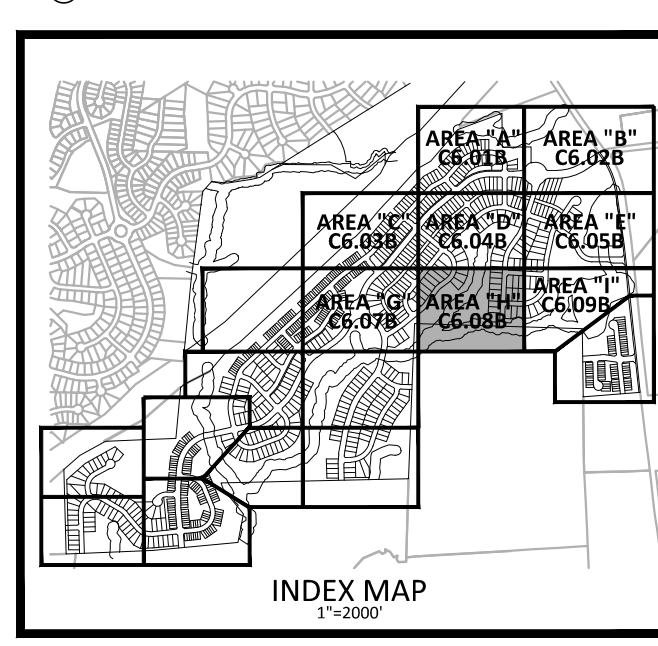
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INVERT OUT UNDER WATER
BOTTOM OF BOX: 345.31' (S)

EX. SSMH - RIM ELV: 347.09'
10" PVC INV. IN: 339.79' (N)
10" PVC INV. IN: 339.86' (E)
10" PVC INV. OUT: 339.74' (SW)

OWNER: SELF, LINDA ESTELLE
MERRITT, JAMES FRANCIS
PIN: 1788238815
REID: 00469985
D.B.: 016287; PG. 00077
ACREAGE: 98.24
ZONING: R-1

EROSION CONTROL LEGEND

	SILT FENCE OUTLET
	INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	STONE CHECK DAM
	SILT FENCE
	TREE PROTECTION FENCE
	SILT FENCE AND TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
	DIVERSION DITCH
	CONSTRUCTION ENTRANCE/EXIT



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license number: C-0293, C-187

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RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 232. 3695
CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

William F. O'Daniel
Professional Engineer
Seal No. 22630
Mar 21 2022 9:02 AM

REVISIONS

NO.	DATE
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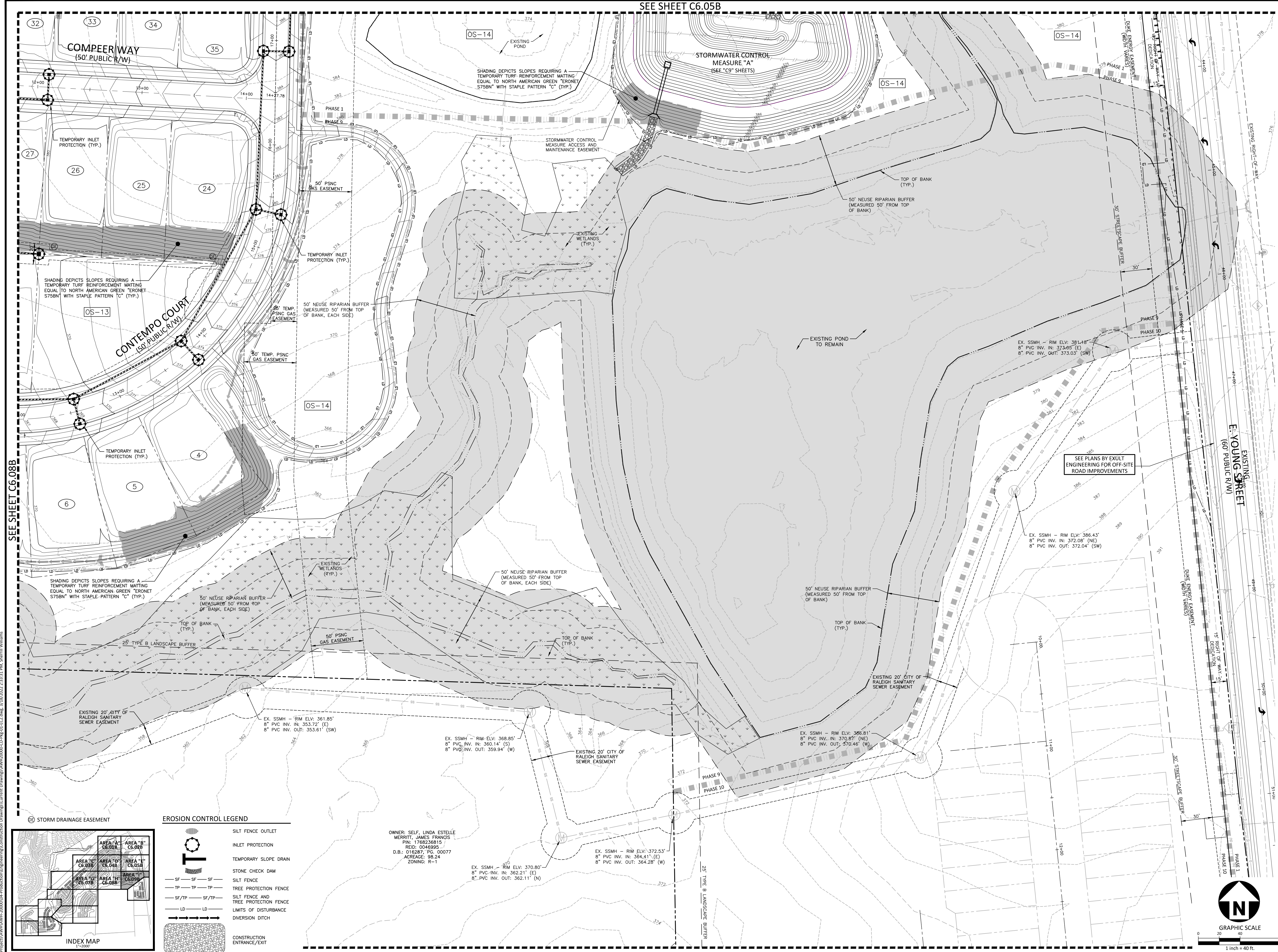
PLAN INFORMATION

PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-EC2
CHECKED BY
DRAWN BY
SCALE 1"=40'
DATE 03. 21. 2022

SHEET
EROSION CONTROL PLAN
STAGE 2
AREA "H"
C6.08B

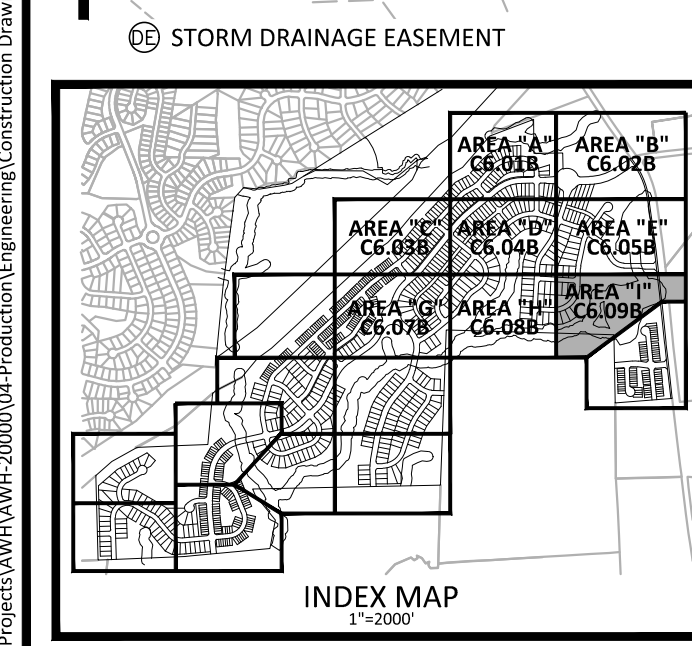
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SEE SHEET C6.05B



SEE SHEET C6.08B

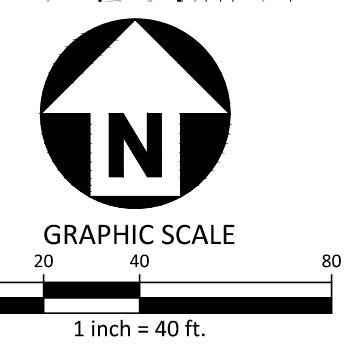
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EROSION CONTROL LEGEND

	SILT FENCE OUTLET
	INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	STONE CHECK DAM
	SILT FENCE
	TREE PROTECTION FENCE
	SILT FENCE AND TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
	DIVERSION DITCH
	CONSTRUCTION ENTRANCE/EXIT

OWNER: SELF, LINDA ESTELLE MERRITT, JAMES FRANCIS
 PIN: 1766236815
 REID: 0046895
 D.B.: 016287, PG. 00077
 ACRAGE: 98.24
 ZONING: R-1



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 PHONE: 919. 232. 3695
 CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

W.T. O'Daniel
 Mar 21 2022 9:03 AM
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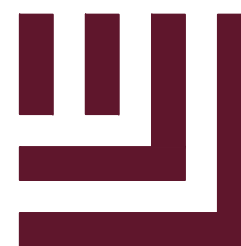
REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO. AWH-20000
 FILENAME AWH20000-CD-PKG-01-EC2
 CHECKED BY .
 DRAWN BY .
 SCALE 1"=40'
 DATE 03. 21. 2022

SHEET
EROSION CONTROL PLAN
STAGE 2
AREA "I"
C6.09B



McADAMS

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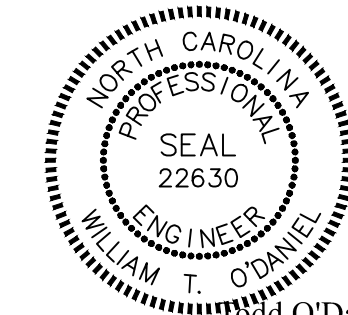
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CONTACT: BOB MISHLER



THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



W. T. O'Daniel
Mar 21 2022 9:03 AM

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-ECS
CHECKED BY
DRAWN BY
SCALE N.T.S.
DATE 03. 21. 2022

SHEET

EROSION CONTROL
DETAILS

C6.10

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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

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

SECTION E: GROUND STABILIZATION

Table with 3 columns: Site Area Description, Stabilize within this many calendar days after ceasing land disturbance, Timeframe variations

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.

GROUND STABILIZATION SPECIFICATION

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

Table with 2 columns: Temporary Stabilization, Permanent Stabilization

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- 1. Select flocculants that are appropriate for the soils being exposed during construction...
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the NCG01 List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- 1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. 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.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

- 1. 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.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. 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

- 1. 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.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

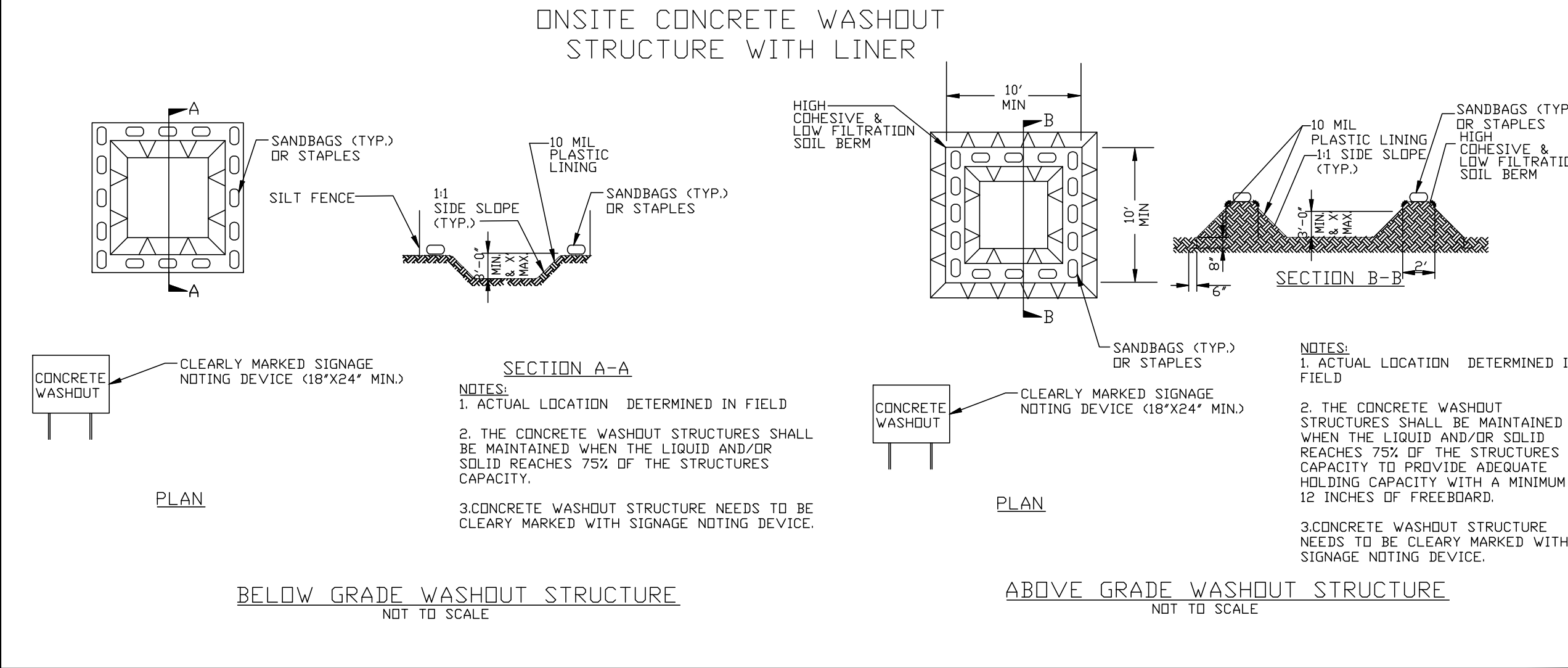
- 1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- 1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. 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.
3. 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.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- 1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. 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.

Table with 3 columns: Inspect, Frequency (during normal business hours), Inspection records must include:

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 kept on site and available for inspection at all times during normal business hours.

Table with 2 columns: Item to Document, Documentation Requirements

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

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

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

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

2. Reporting Timeframes and Other Requirements

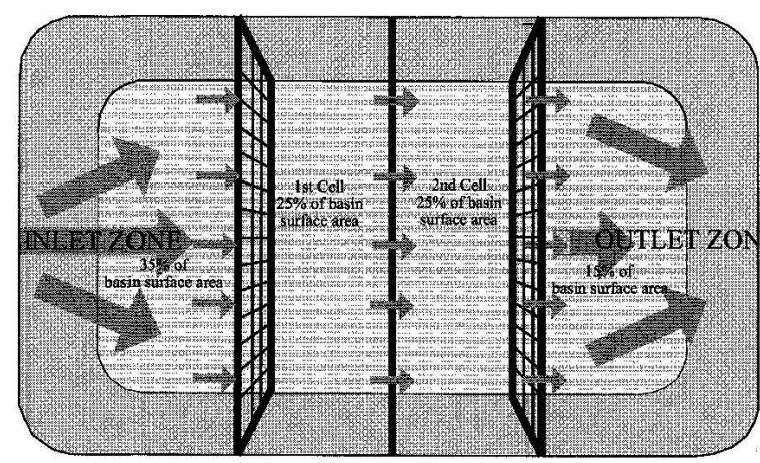
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental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

Table with 2 columns: Occurrence, Reporting Timeframes (After Discovery) and Other Requirements

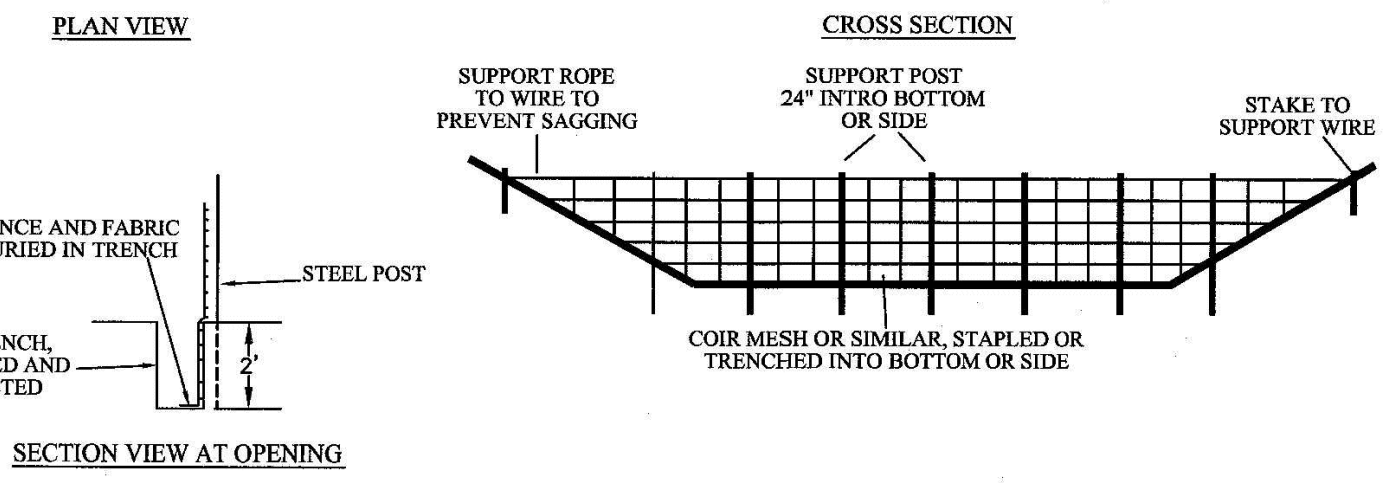
NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

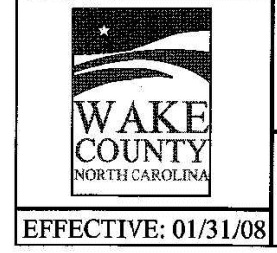
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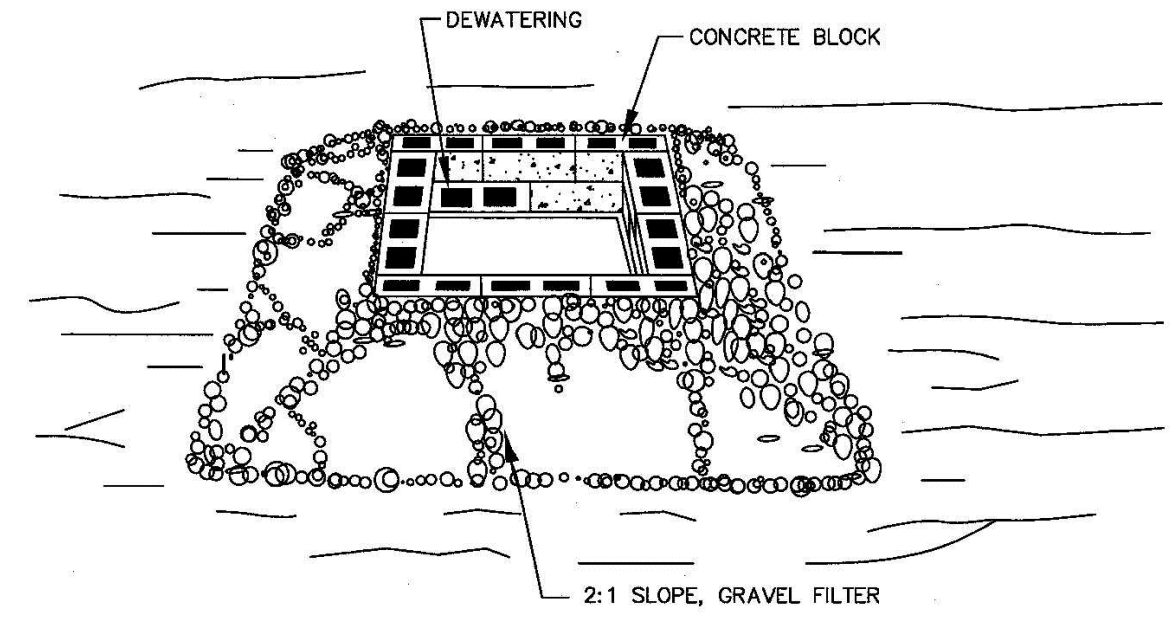
- NOTES:**
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
 2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
 3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH), PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
 4. BAFFLES SHALL BE 700 GPM COIR EROSION BLANKET.
 5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
 6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.



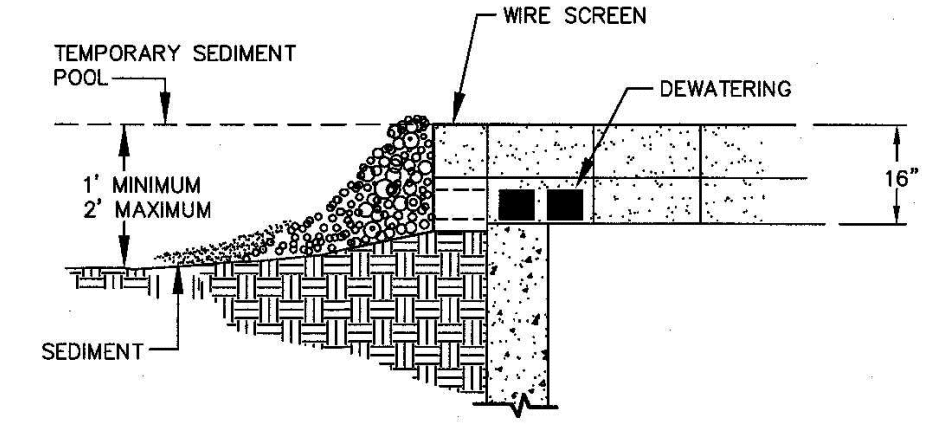
STANDARD BAFFLES DETAIL



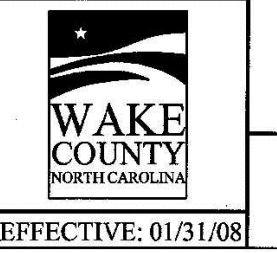
EFFECTIVE: 01/31/08



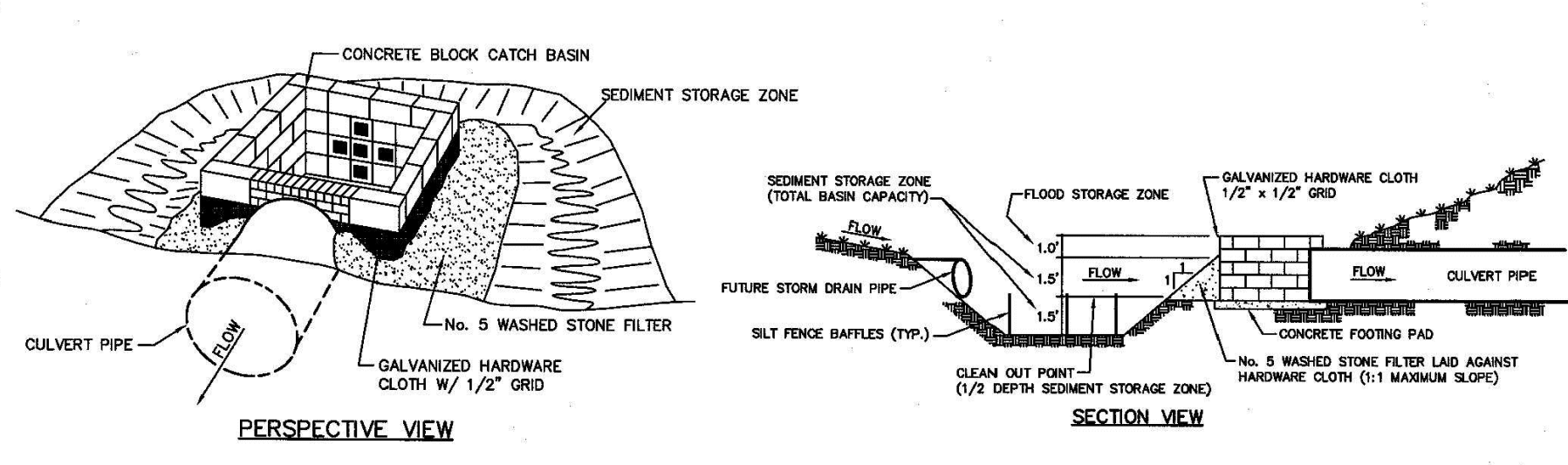
- CONSTRUCTION SPECIFICATIONS**
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
 2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
 3. USE CLEAN GRAVEL, 3/4 TO 1 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.



STANDARD BLOCK & GRAVEL DROP INLET PROTECTION

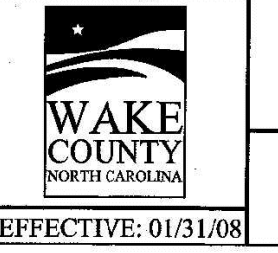


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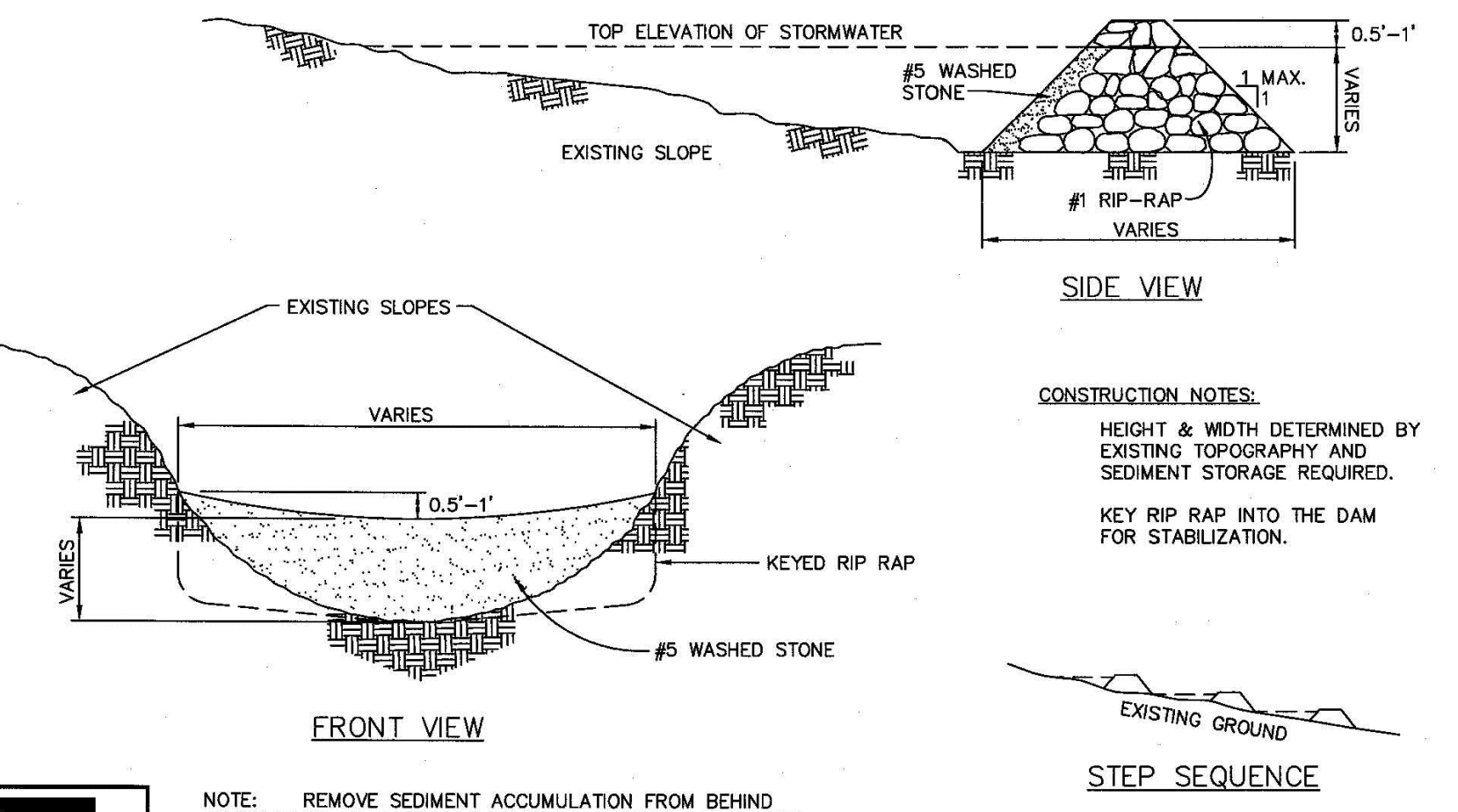


- USE OF CATCH BASIN RISER/FILTER ON FILL SITES**
1. INITIAL CATCH BASIN RISER/FILTER.
 2. PROVIDE SEDIMENT STORAGE ZONE.
 3. PROVIDE FLOOD STORAGE ZONE.
 4. PROVIDE CLEAN OUT POINT (1/2' DEPTH SEDIMENT STORAGE ZONE).
 5. PROVIDE GALVANIZED HARDWARE CLOTH W/ 1/2" GRID.
 6. PROVIDE CONCRETE FOOTING PAD.
 7. PROVIDE GALVANIZED HARDWARE CLOTH W/ 1/2" GRID.
 8. PROVIDE NO. 5 WASHED STONE FILTER.
 9. PROVIDE FUTURE STORM DRAIN PIPE.
 10. PROVIDE SILT FENCE BAFFLES (TYP.).
 11. PROVIDE CLEAN OUT POINT (1/2' DEPTH SEDIMENT STORAGE ZONE).
 12. PROVIDE GALVANIZED HARDWARE CLOTH W/ 1/2" GRID.
 13. PROVIDE CONCRETE FOOTING PAD.
 14. PROVIDE GALVANIZED HARDWARE CLOTH W/ 1/2" GRID.
 15. PROVIDE NO. 5 WASHED STONE FILTER LAD AGAINST HARDWARE CLOTH (1' MAXIMUM SLIP).

STANDARD CATCH BASIN RISER/FILTER

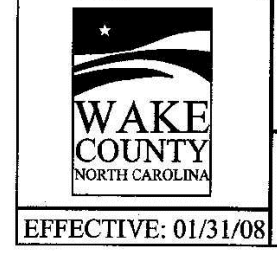


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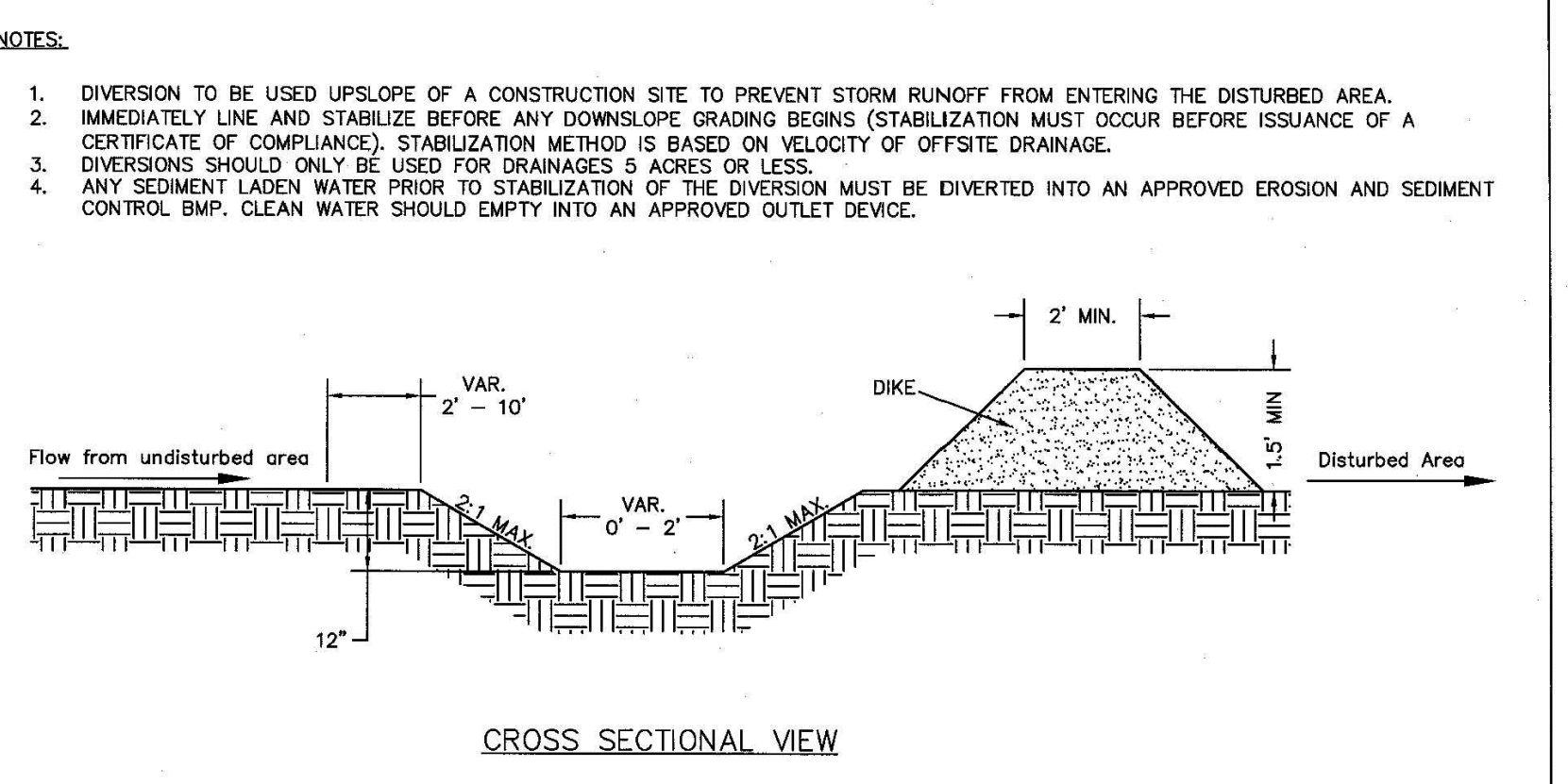


- CONSTRUCTION NOTES:**
- HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
 - KEY RIP RAP INTO THE DAM FOR STABILIZATION.

STANDARD CHECK DAM

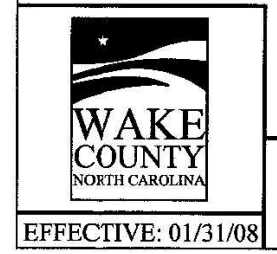


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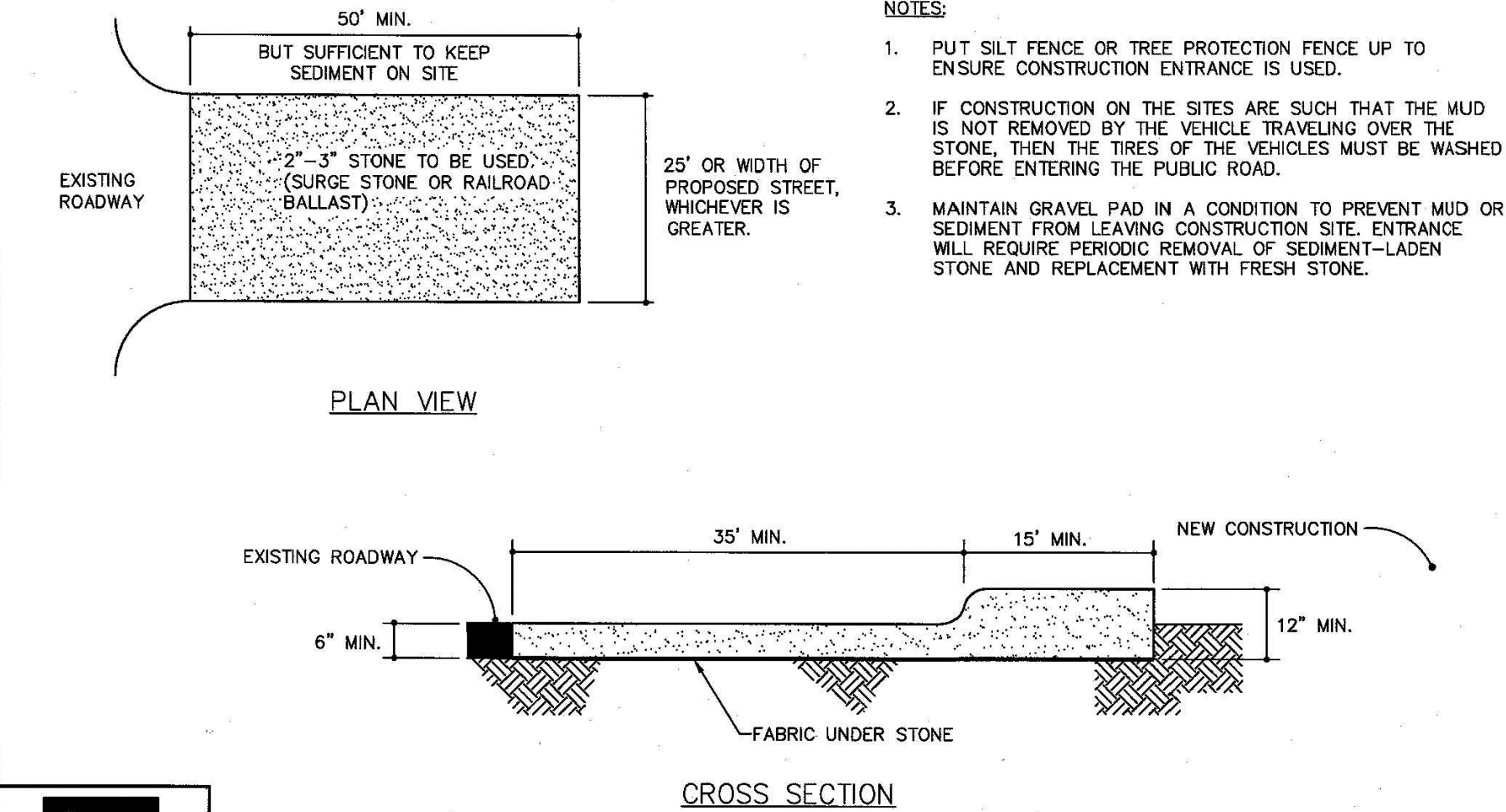


- NOTES:**
1. DIVERSION TO BE USED UPSLOPE OF A CONSTRUCTION SITE TO PREVENT STORM RUNOFF FROM ENTERING THE DISTURBED AREA.
 2. IMMEDIATELY LINE AND STABILIZE BEFORE ANY DOWNSLOPE GRADING BEGINS (STABILIZATION MUST OCCUR BEFORE ISSUANCE OF A CERTIFICATE OF COMPLIANCE). STABILIZATION METHOD IS BASED ON VELOCITY OF OFFSITE DRAINAGE.
 3. DIVERSIONS SHOULD ONLY BE USED FOR DRAINAGES 3 ACRES OR LESS.
 4. ANY SEDIMENT LADEN WATER PRIOR TO STABILIZATION OF THE DIVERSION MUST BE DIVERTED INTO AN APPROVED EROSION AND SEDIMENT CONTROL BMP. CLEAN WATER SHOULD EMPTY INTO AN APPROVED OUTLET DEVICE.

STANDARD CLEAN WATER DIVERSION

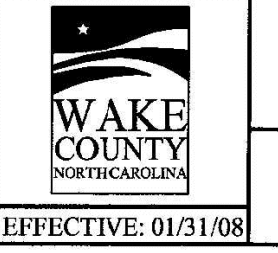


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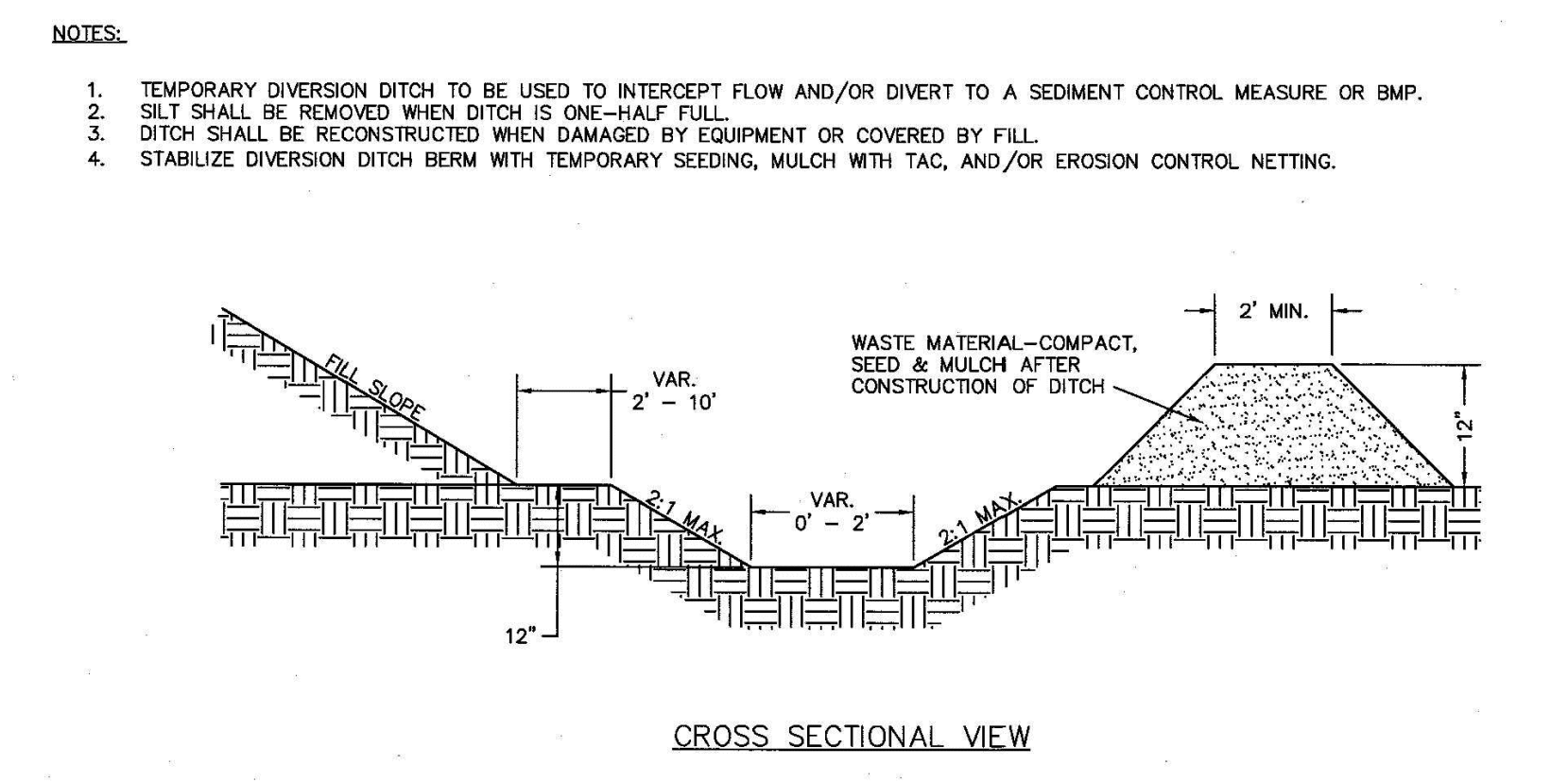


- NOTES:**
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
 2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
 3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

STANDARD CONSTRUCTION ENTRANCE

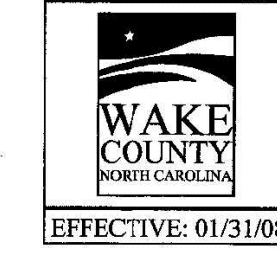


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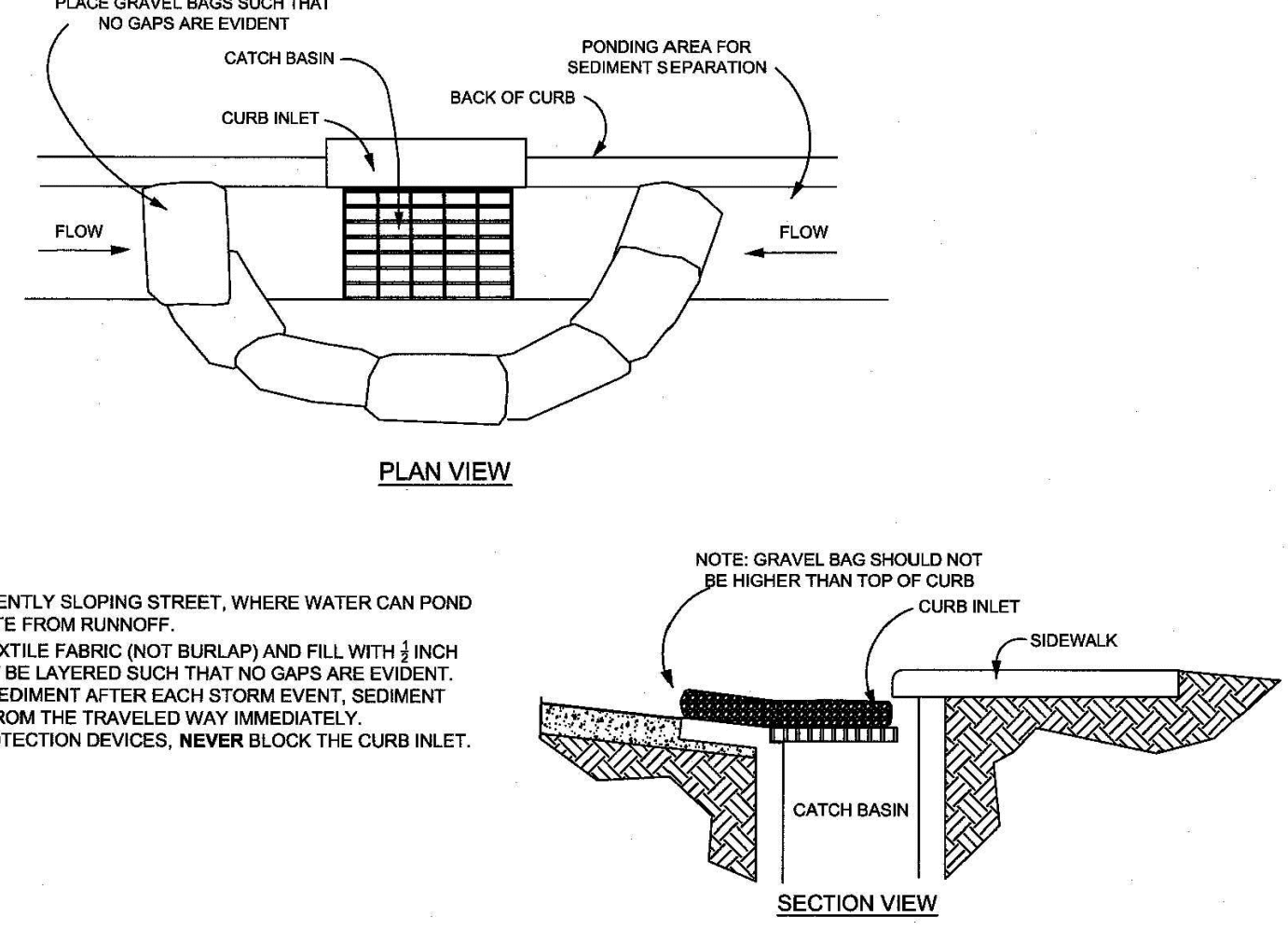


- NOTES:**
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
 2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
 3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
 4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAG, AND/OR EROSION CONTROL NETTING.

STANDARD TEMPORARY DIVERSION DITCH

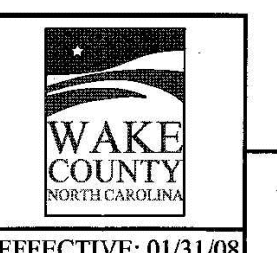


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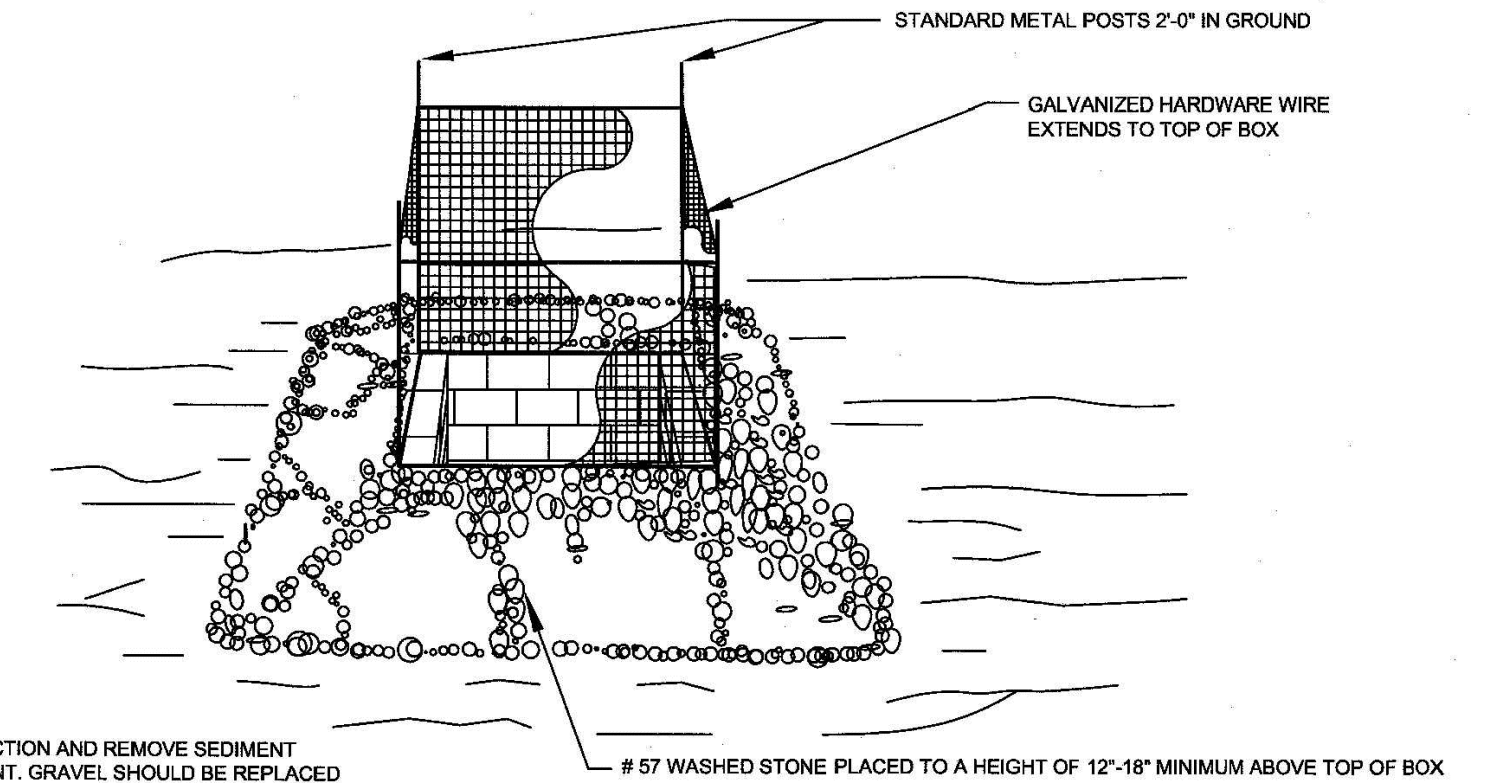


- NOTES:**
1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 1/2 INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
 3. INSPECT BARRIERS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

STANDARD GRAVEL BAG CURB INLET PROTECTION

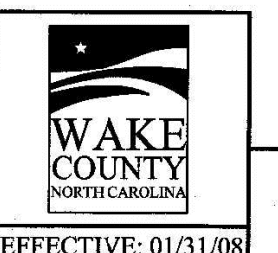


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- NOTE:**
1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

STANDARD GRAVEL YARD INLET PROTECTION



EFFECTIVE: 01/31/08

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W. T. O'Daniel
Mar 21 2022 9:04 AM

REVISIONS

NO.	DATE

PLAN INFORMATION

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FILENAME	AWH20000-CD-PKG-01-EC3
CHECKED BY	
DRAWN BY	
SCALE	N.T.S.
DATE	03. 21. 2022

EROSION CONTROL
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ASHTON WOODS.

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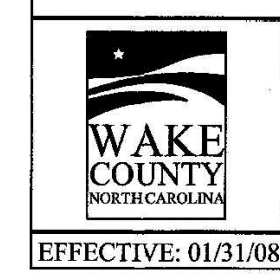
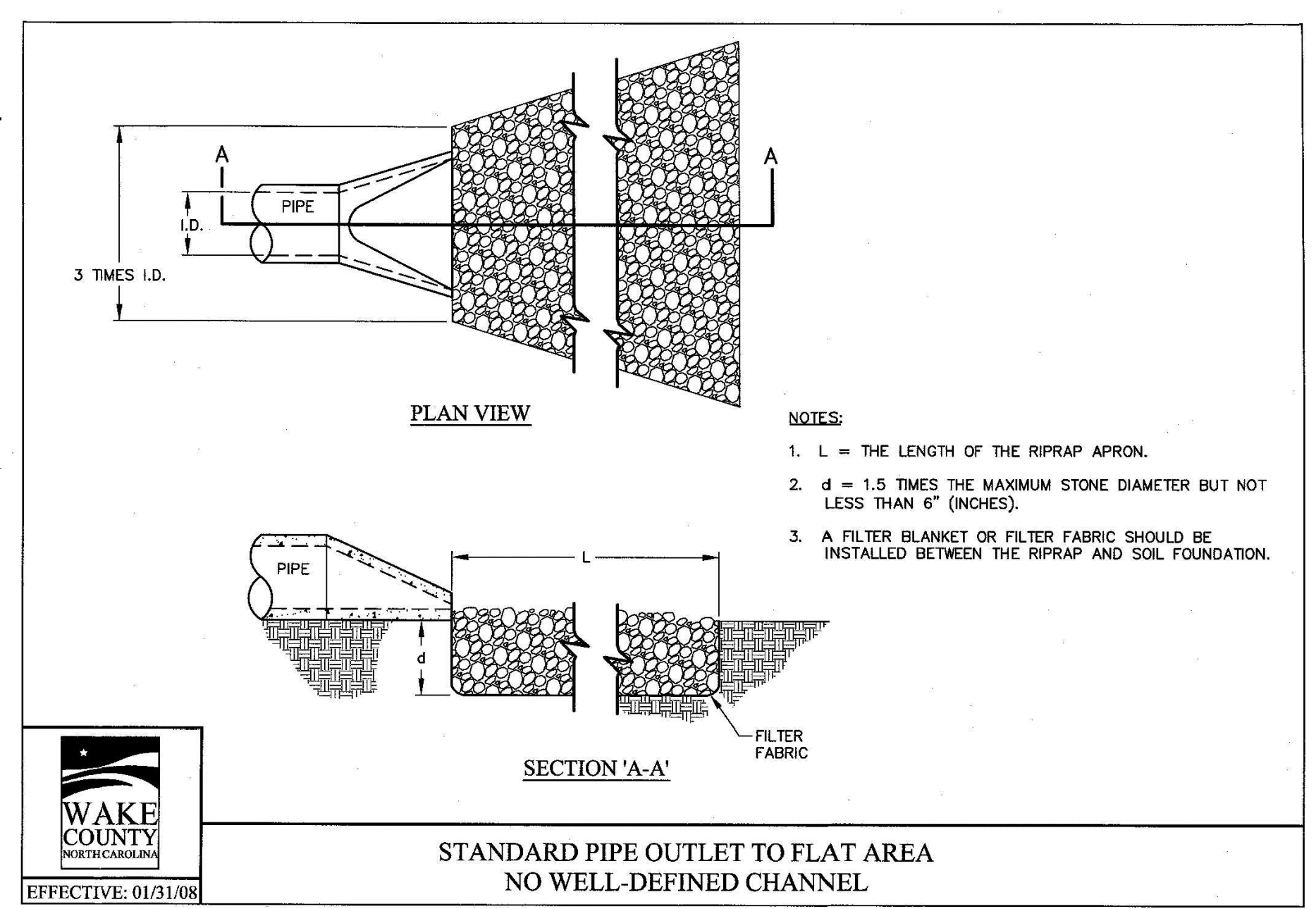
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SHEET

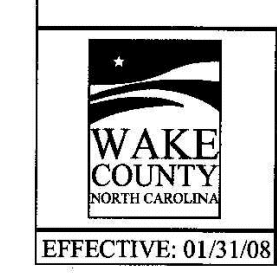
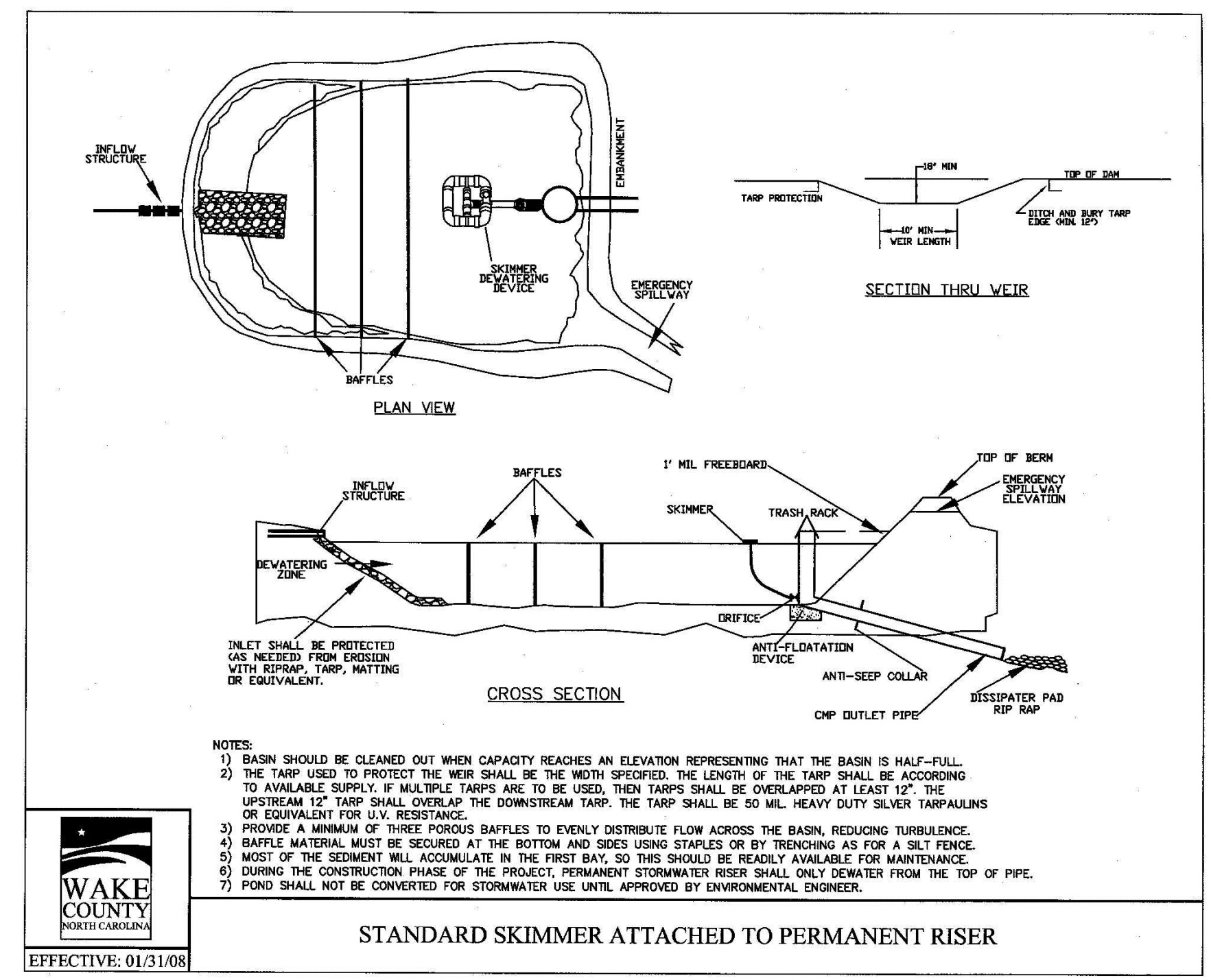
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C6.12

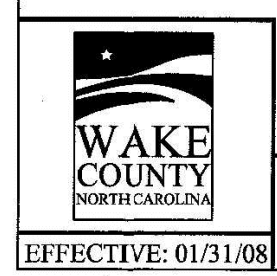
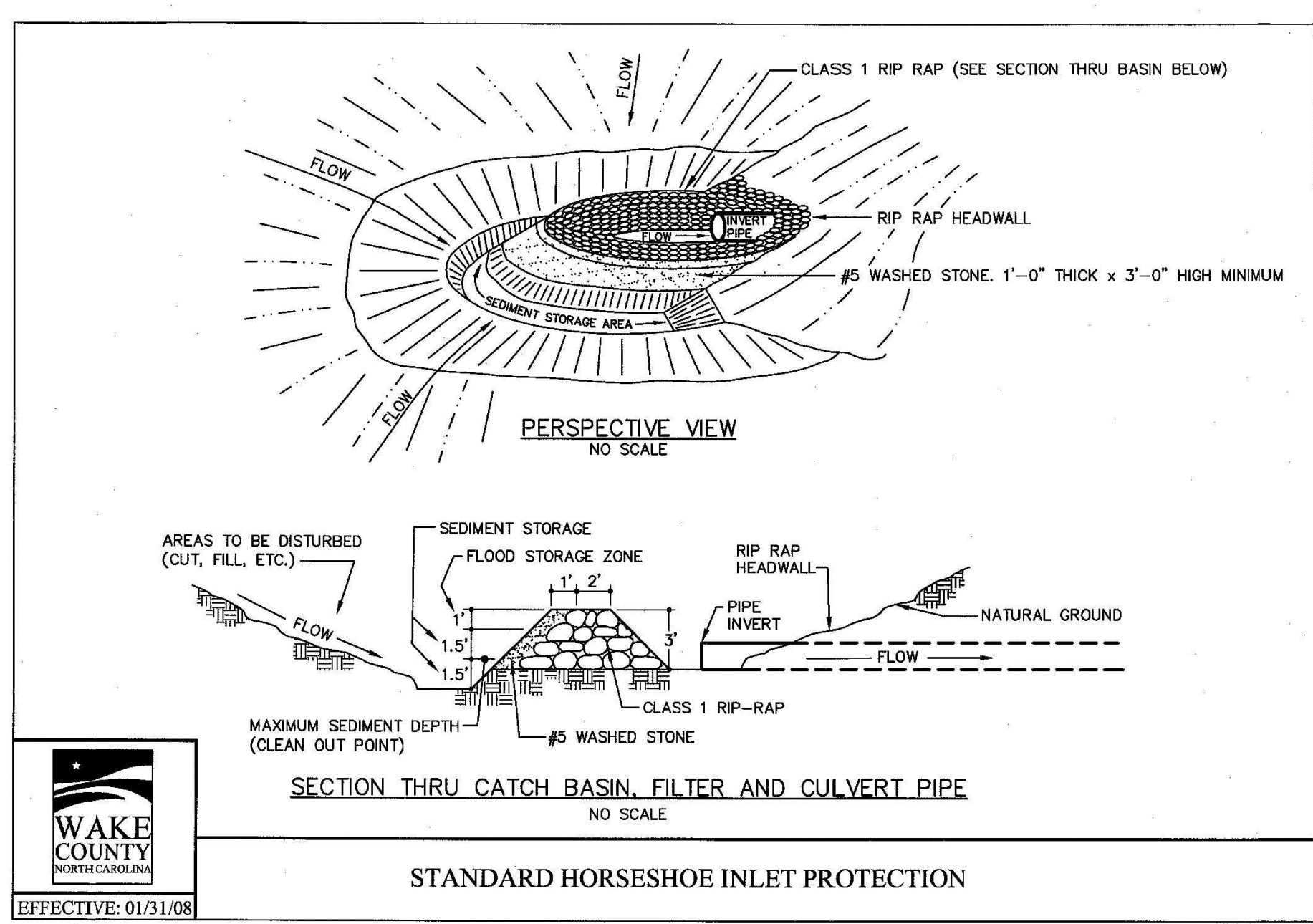
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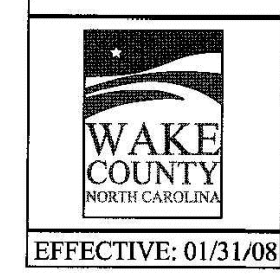
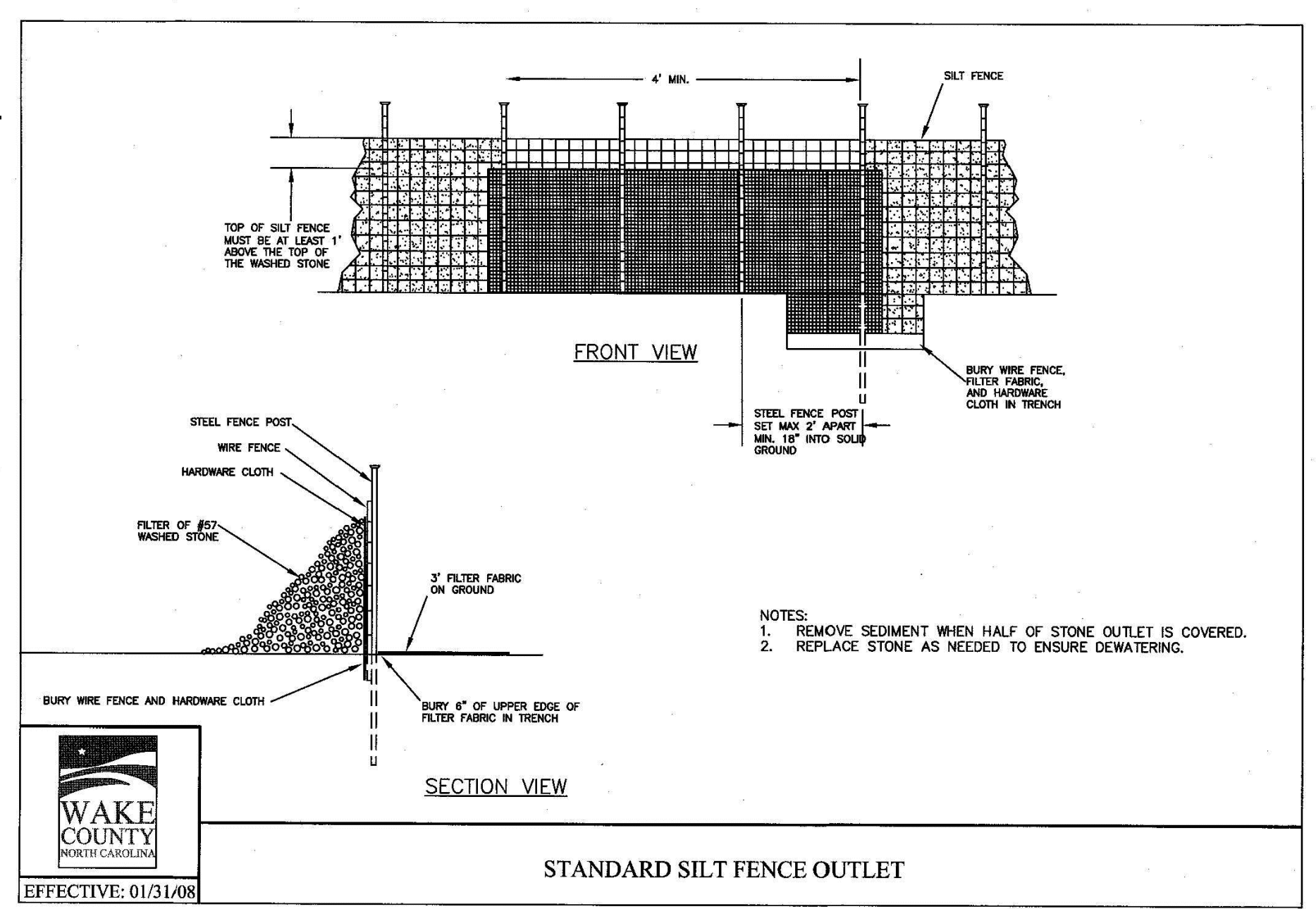
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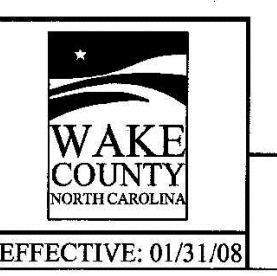
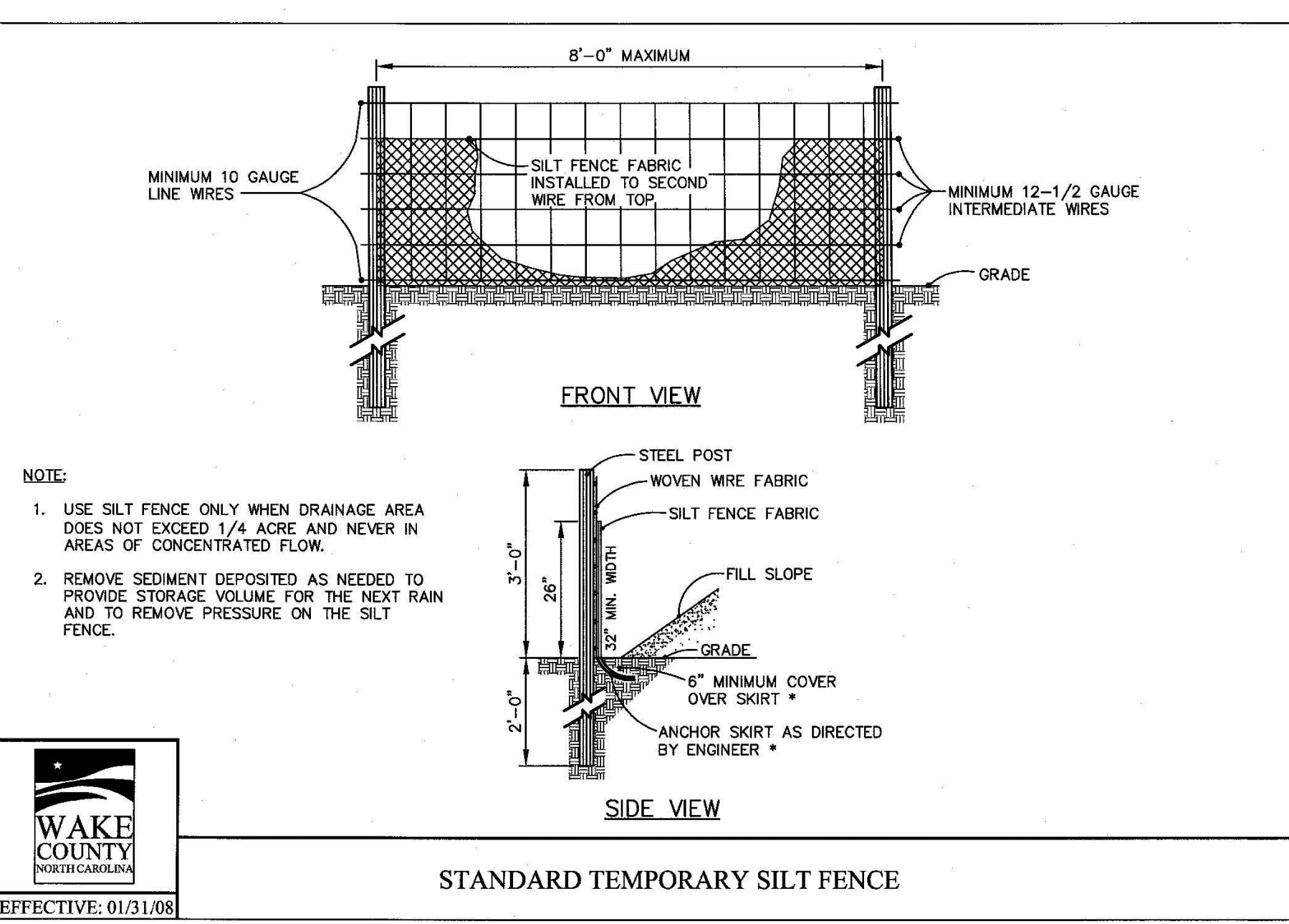
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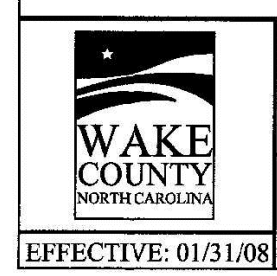
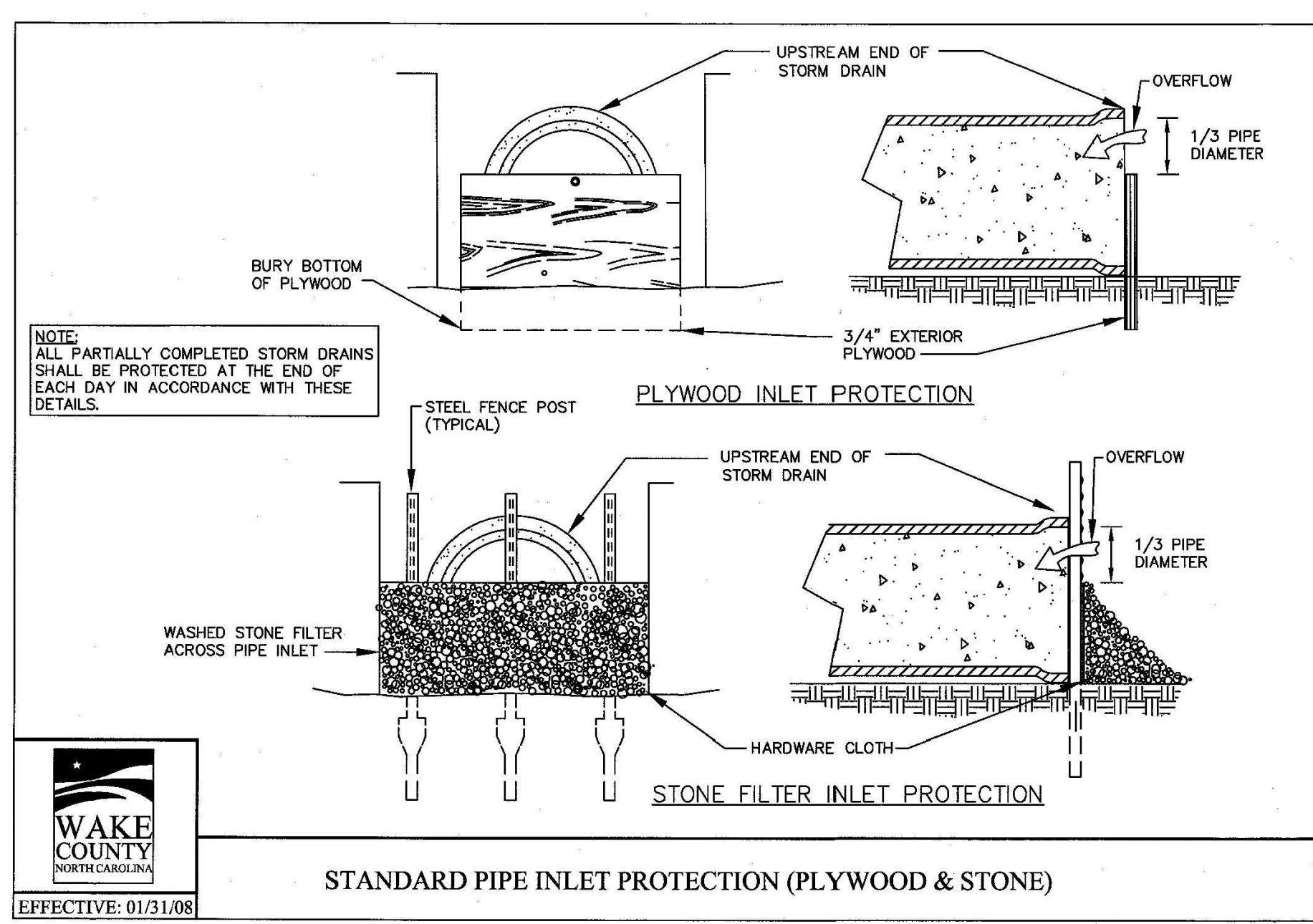
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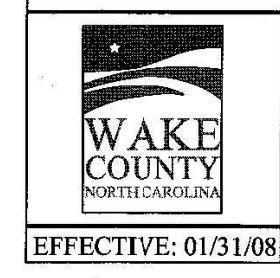
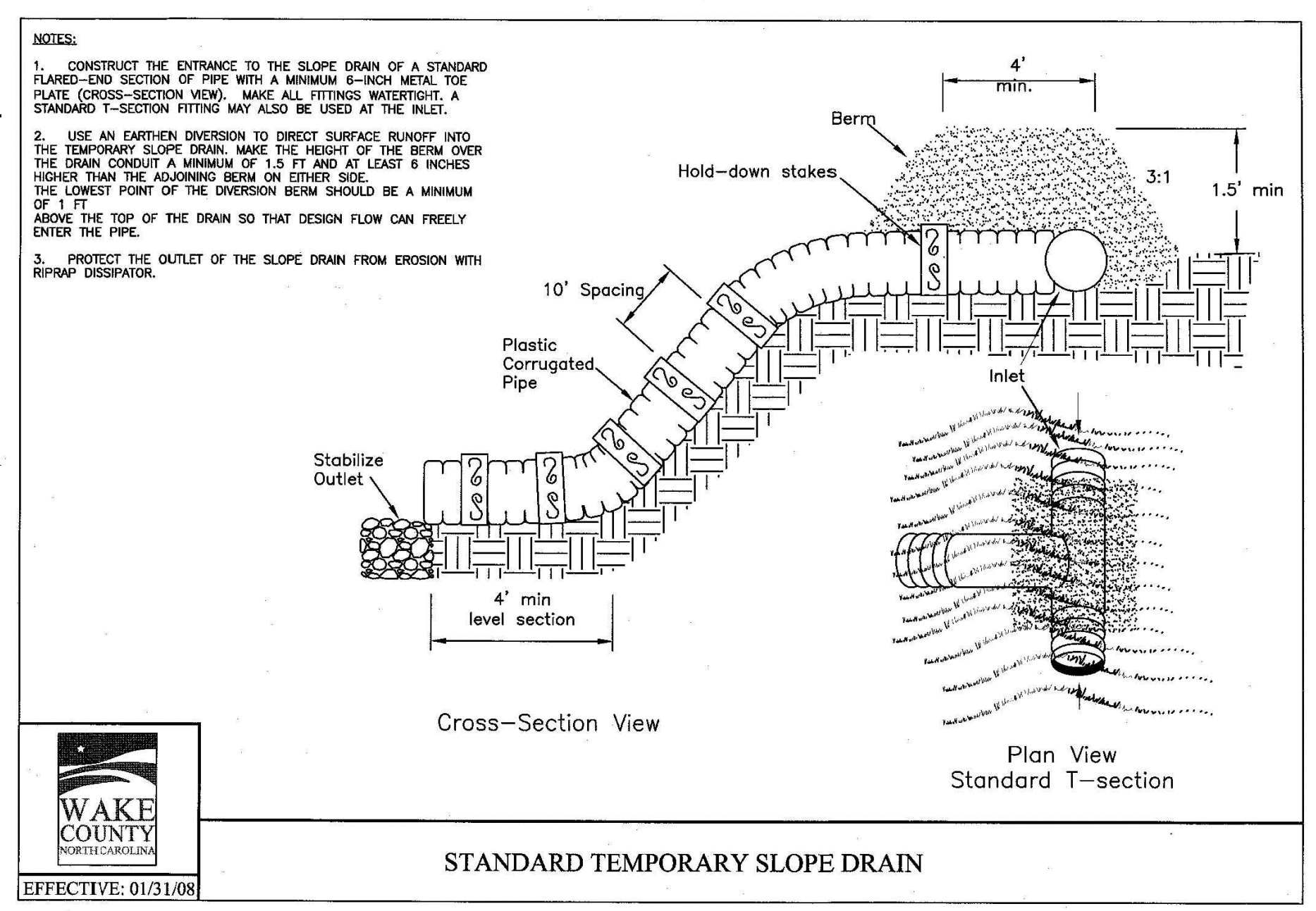
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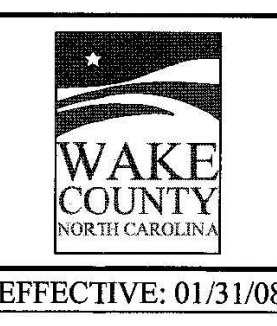
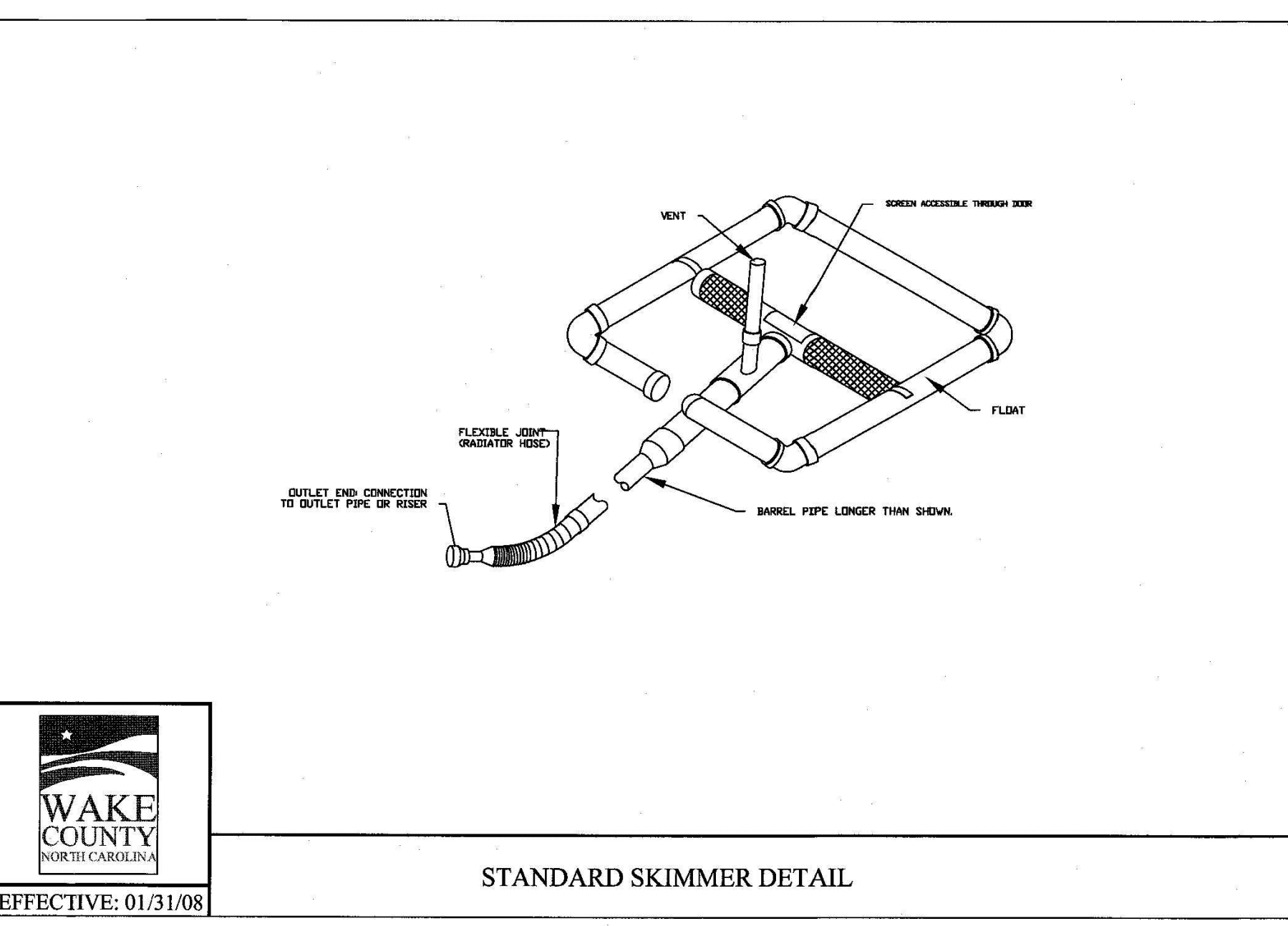
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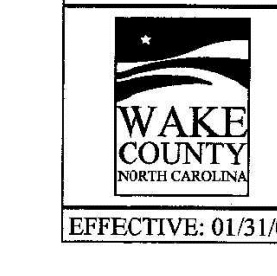
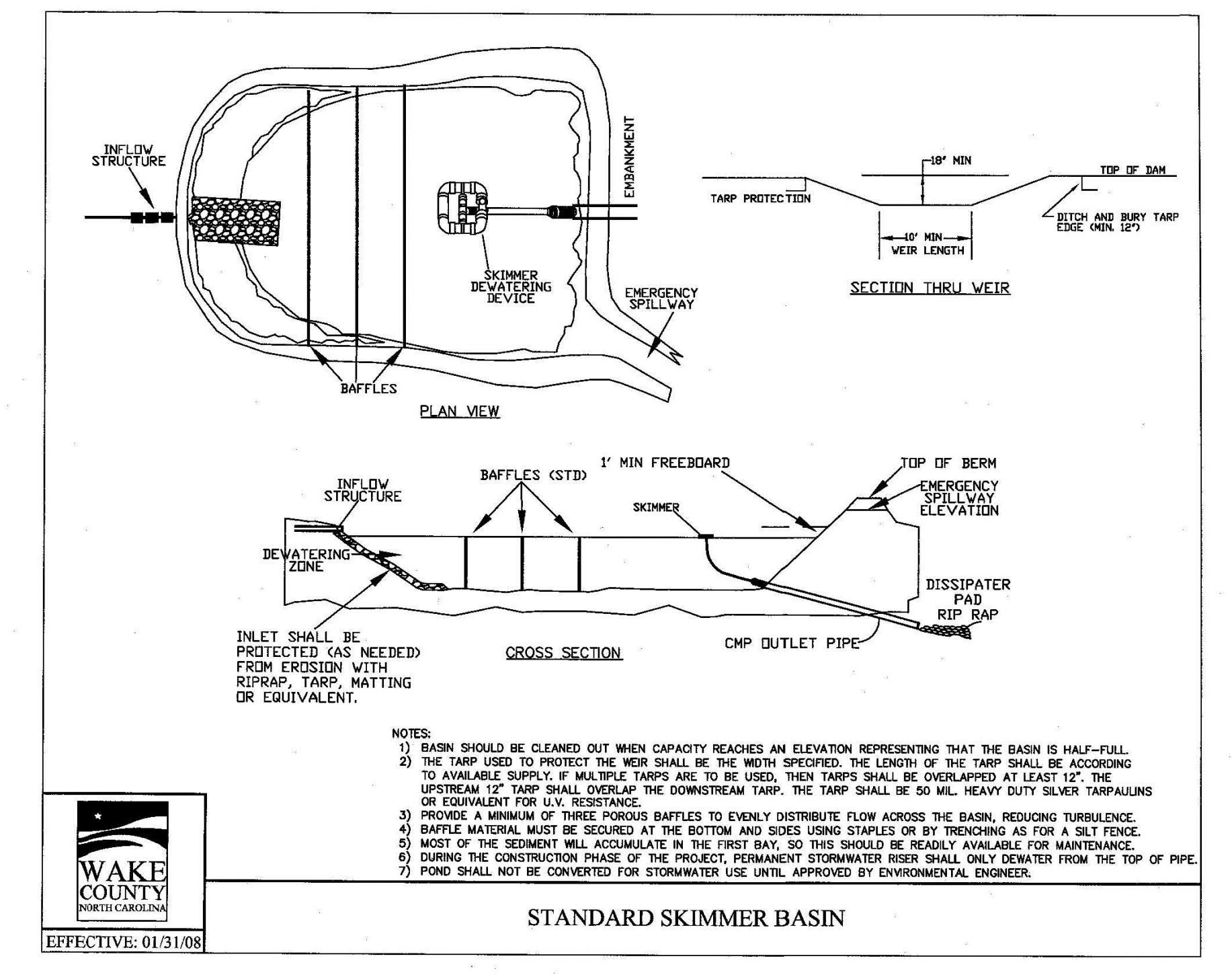
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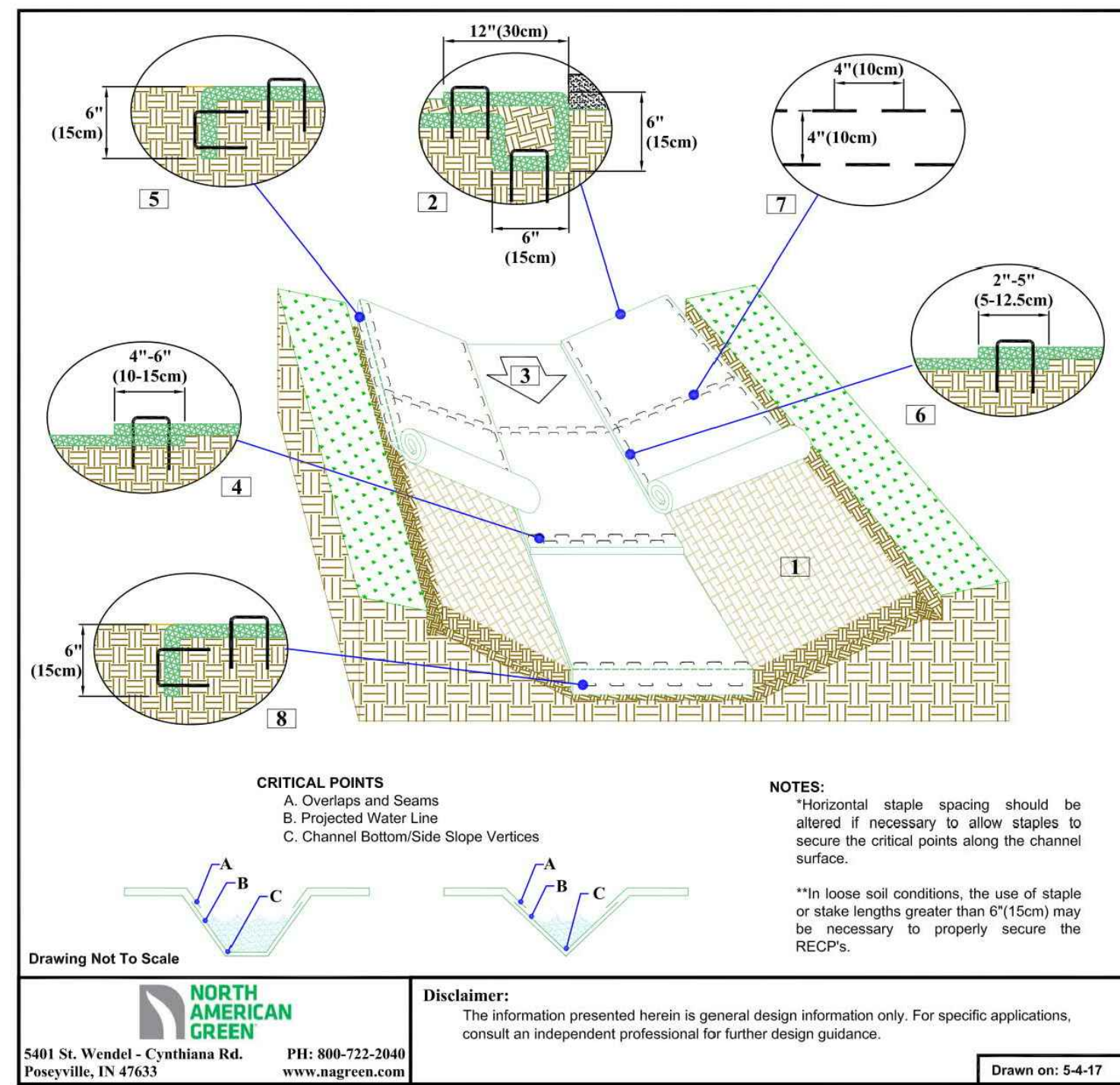


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EFFECTIVE: 01/31/08

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CHANNEL INSTALLATION DETAIL

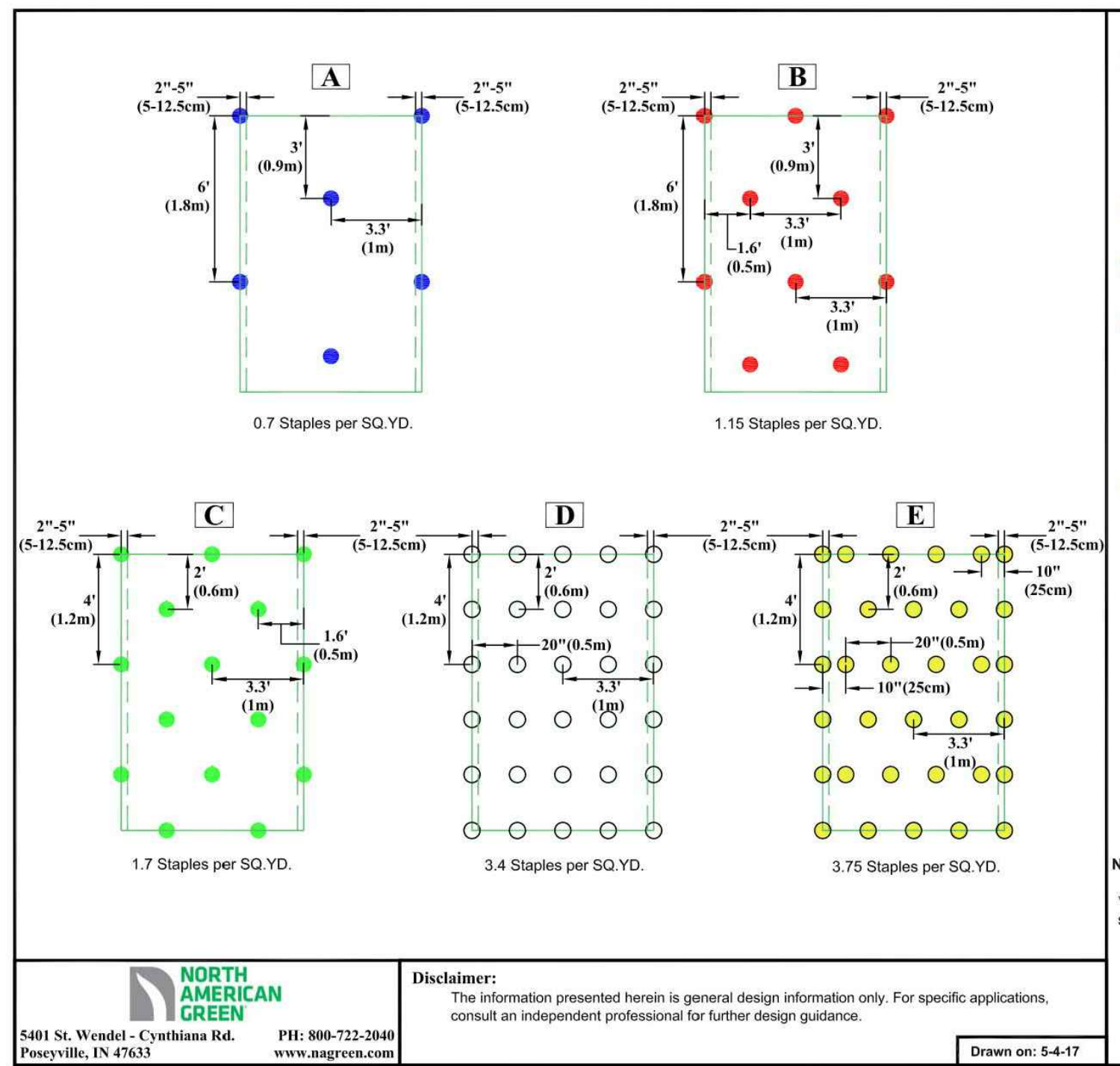
- Prepare soil before installing rolled erosion control products (RECPs) including any necessary application of lime, fertilizer, and seed.
- Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
- Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- Place consecutive RECPs end-over-end (single style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
- Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
- In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9-12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
- The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

CRITICAL POINTS
 A. Overlaps and Seams
 B. Projected Water Line
 C. Channel Bottom/Side Slope Vertices

NOTES:
 *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.
 **In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

Disclaimer:
 The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

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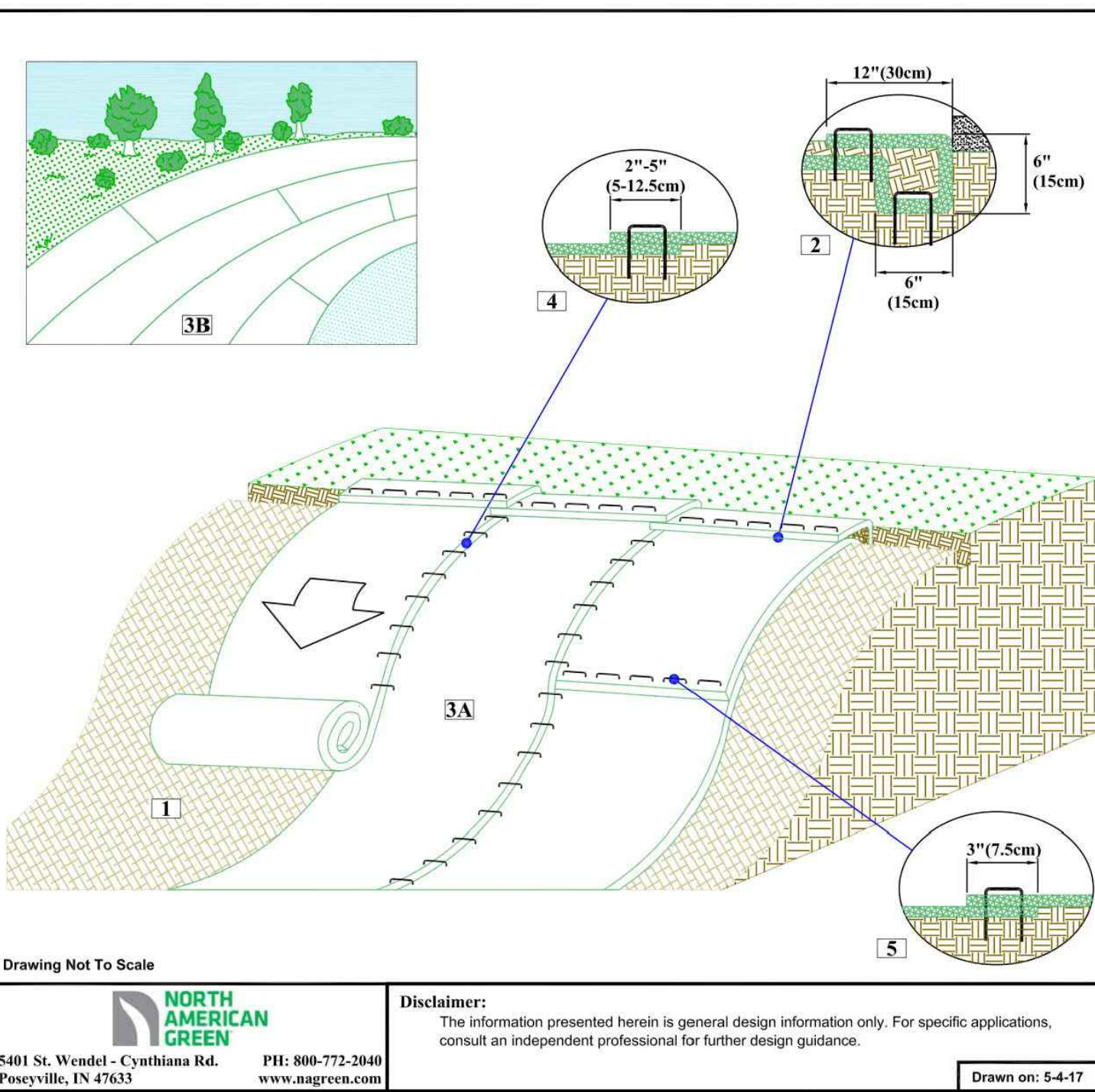
STAPLE PATTERN GUIDE

- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- High Flow Channel And Shoreline (E)

NOTES:
 * Use ECAMDS® for more accurate staple pattern selection.

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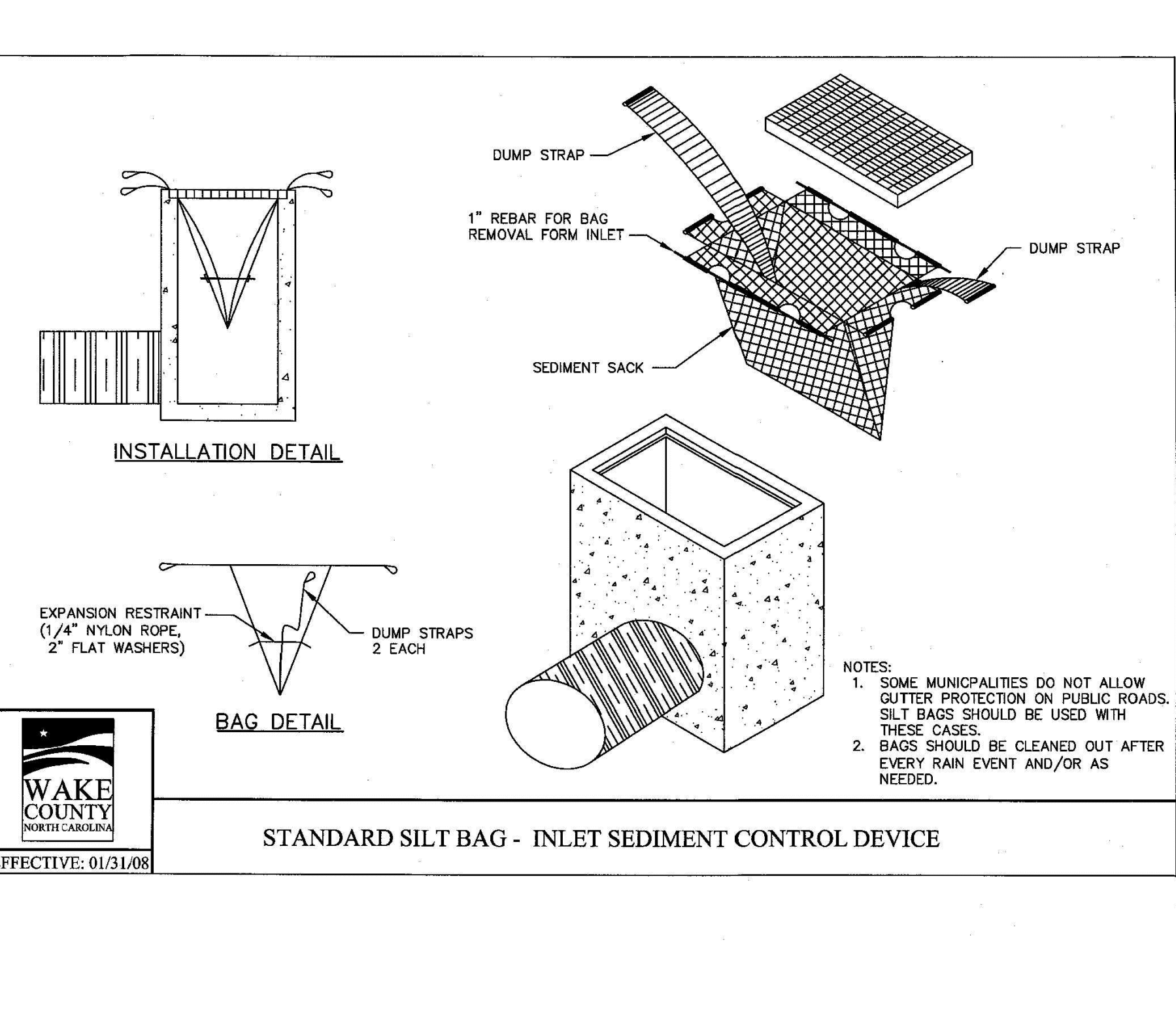
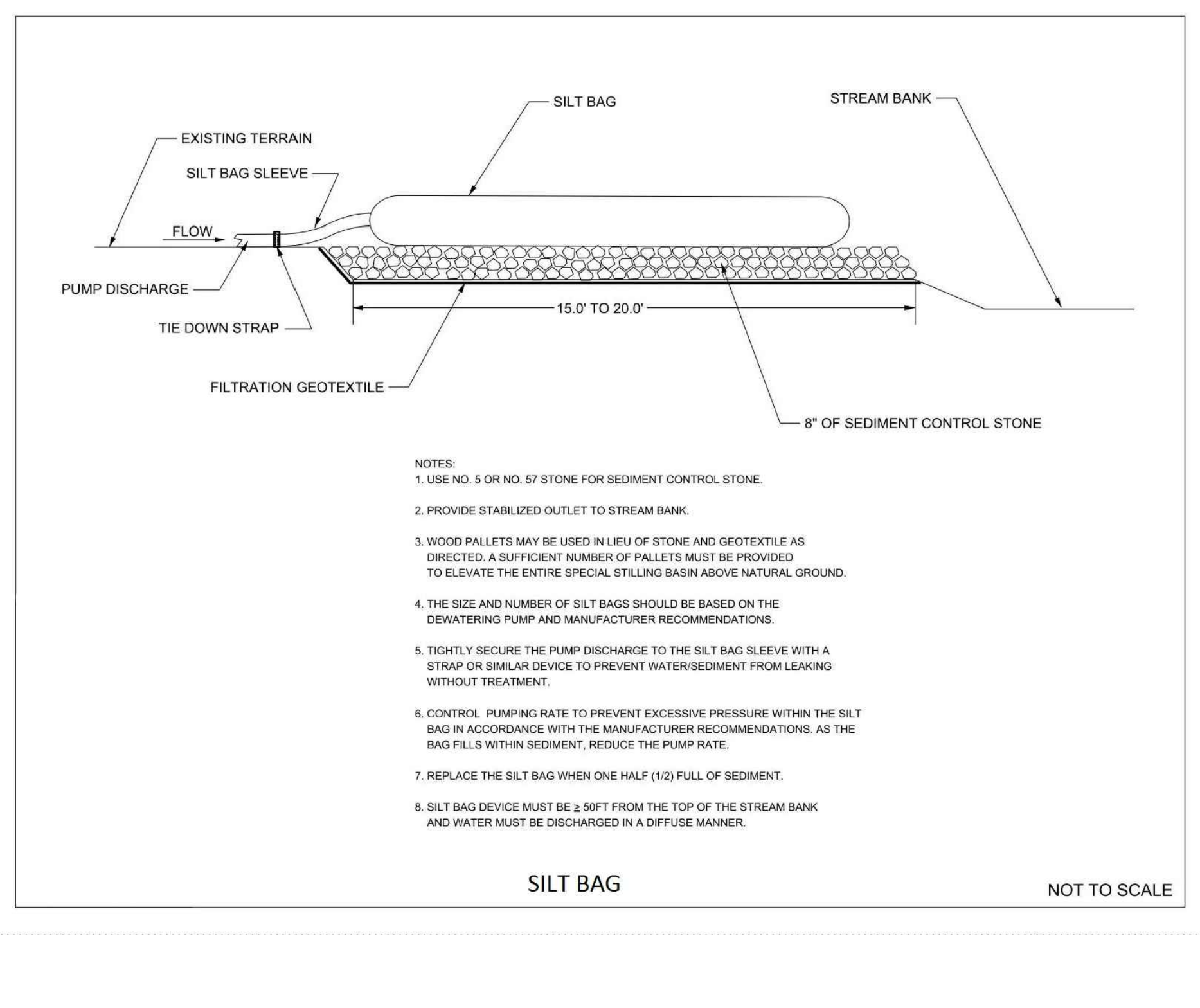
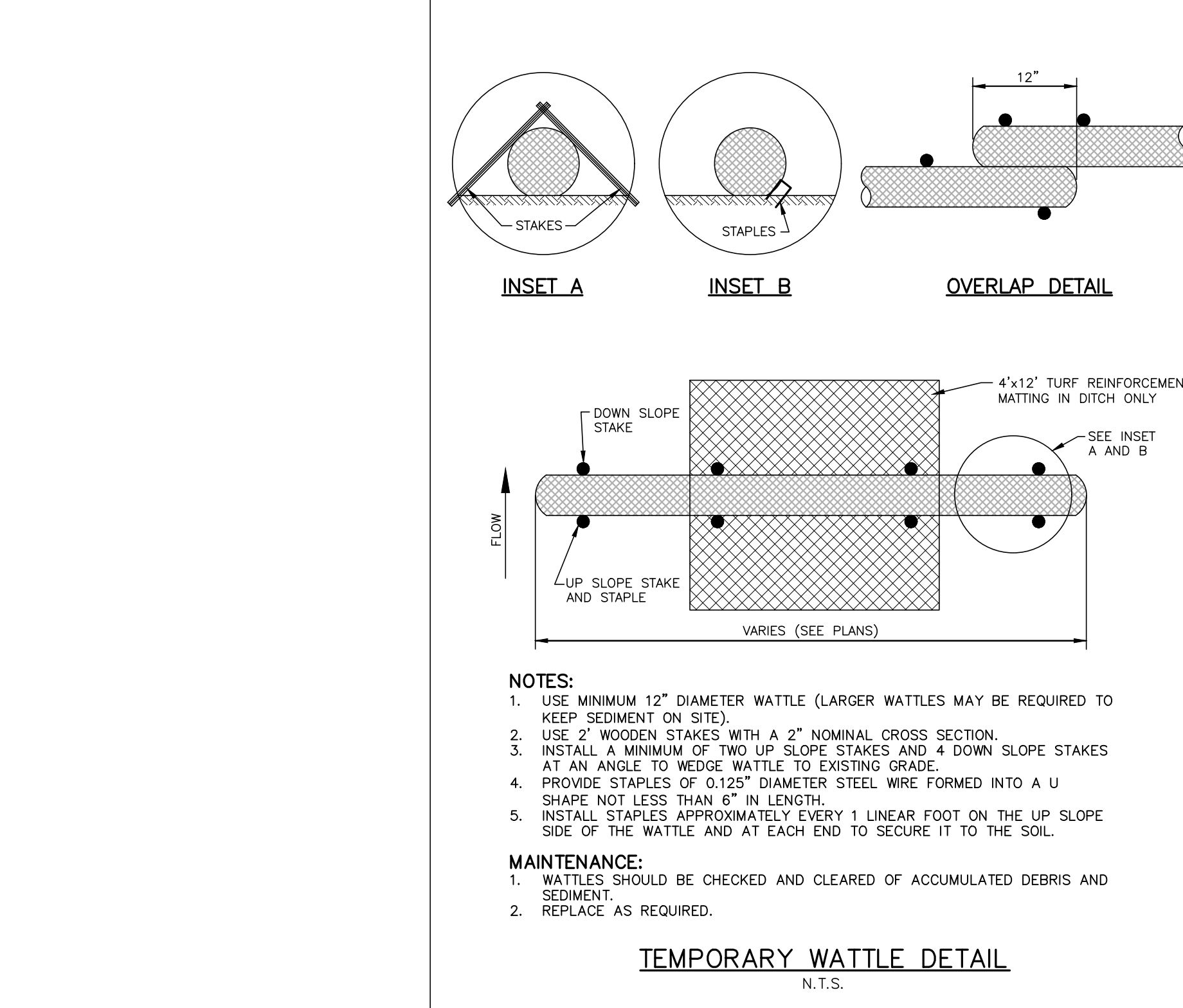
SLOPE INSTALLATION DETAIL

- Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
- Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
- Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
- Consecutive RECPs slip down the slope must be end over end (single style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart, across entire RECPs width.

NOTE:
 In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

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STANDARD TEMPORARY STREAM CROSSING OPTION

INSTALLATION NOTES:

- REFER TO "NORTH CAROLINA DIVISION OF FOREST RESOURCES" LITERATURE, "INSTALLATION MAINTENANCE GUIDELINES," & "NORTH CAROLINA FORESTRY BMP MANUAL-2006".
- INSTALL WATER DIVERSION DEVICES (WATER BARS, TURNOUTS, BROAD-BASED DIPS, ETC.) ON BOTH SIDES OF THE MATS.
- STABILIZE EXPOSED MINERAL SOIL WITH TREE TOPS OR BRUSH DURING MAT INSTALLATION, AND SEEDING/MULCH AFTER MAT REMOVAL.
- INSTALL MATS TO CREATE A MINIMUM TEN-FOOT BRIDGE WIDTH.
- INCLUDE COARSE AGGREGATE ON THE APPROACHWAY FOR A MINIMUM OF 25 FEET AND SILT FENCE ALONG STREAMBANKS ADJACENT TO CROSSING FOR A MINIMUM OF 25 FEET.

MAINTENANCE NOTES:

- KEEP MATS' SURFACE FREE OF MINERAL SOIL AND DEBRIS THAT COULD ENTER STREAM.
- PERIODICALLY CHECK MAT HARDWARE. RETIGHTEN NUTS & CABLE CLAMPS AS NECESSARY TO MAINTAIN BRIDGE STRENGTH AND INTEGRITY.
- IMMEDIATELY REMOVE ANY DEBRIS WHICH ENTERS THE STREAM AT THE CROSSING LOCATION.

REMOVAL NOTES:

- CLEAN OFF BRIDGE SURFACE.
- REMOVE MATS BY USING MAT CABLE LOOP OR SKIDDER GRAPPLE.
- PERMANENTLY STABILIZE DISTURBED PORTIONS OF STREAMBANK AND APPROACH ROADS WITH PERENNIAL GRASSES/MULCH (OR WETLAND MIX WHEN APPLICABLE).
- LEAVE APPROPRIATE WATER DIVERSION STRUCTURES IN PLACE ON BOTH SIDES OF STREAM.
- RESTORE THE STREAM CHANNEL TO ITS ORIGINAL CROSS-SECTION, AND SMOOTH AND APPROPRIATELY STABILIZE ALL DISTURBED AREAS.

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 PHONE: 919. 232. 3695
 CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

Todd O'Daniel
 Mar 21 2022 9:05 AM
 W.T. O'Daniel

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO. AWH-20000
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 DRAWN BY .
 SCALE N.T.S.
 DATE 03. 21. 2022

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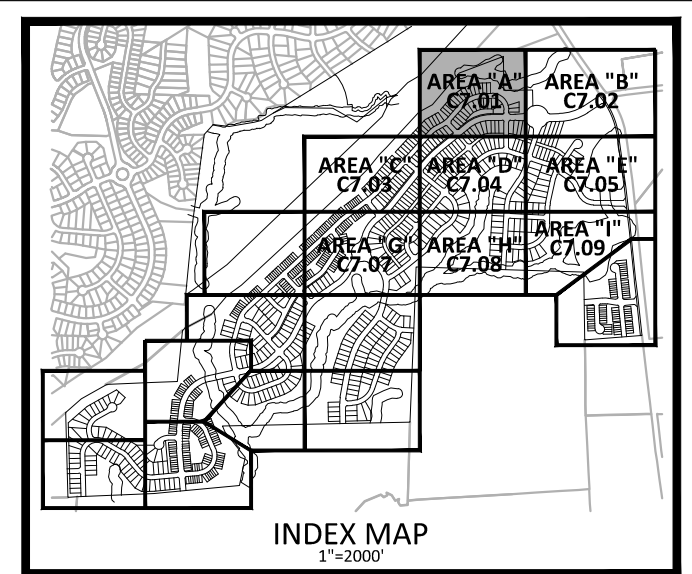
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PAVEMENT MARKING LEGEND

(A) 24" WIDE STOP BAR
 (B) 8" WIDE STANDARD CROSSWALK (8" WHITE LINE)
 (C) 24"x36" YIELD LINE SYMBOLS
 (D) WHITE WIDE (12") 3"-3"/SP MINI-SKIPS ENTRANCE LINE
 (E) 8" WIDE HIGH VISIBILITY CROSSWALK

NOTE: ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE NCDOT DETAILS (1205.01-1205.12))



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THE POINT
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CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

PROFESSIONAL SEAL
 NORTH CAROLINA
 WILLIAM T. O'DANIEL
 ENGINEER
 22630
 Todd O'Daniel
 Mar 28 2022 9:01 AM

REVISIONS

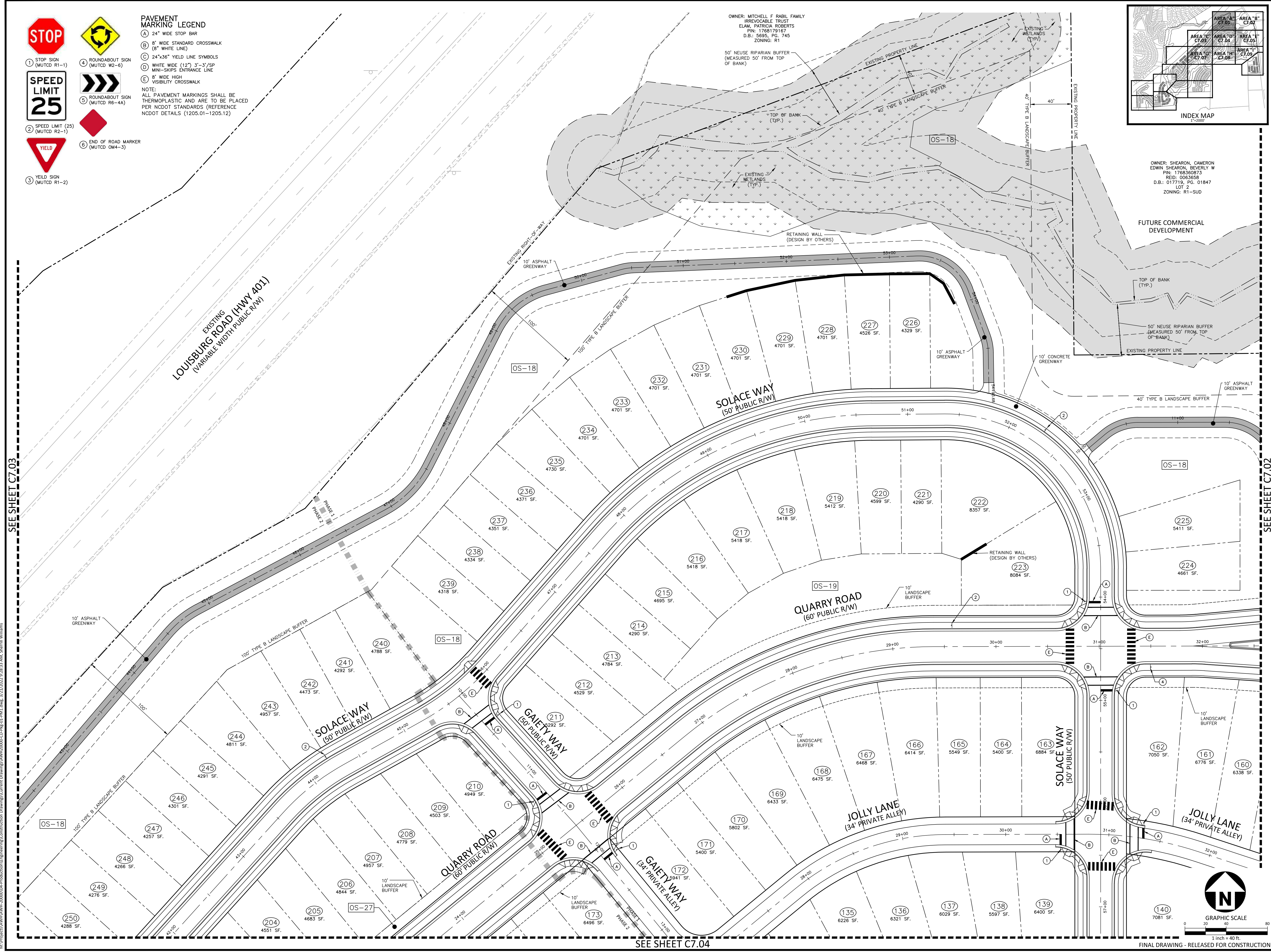
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 DATE 03. 21. 2022

SHEET

PAVEMENT MARKING AND SIGNAGE PLAN
 AREA "A"
C7.01

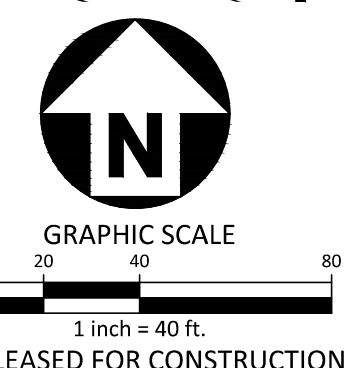


SEE SHEET C7.03

SEE SHEET C7.02

SEE SHEET C7.04

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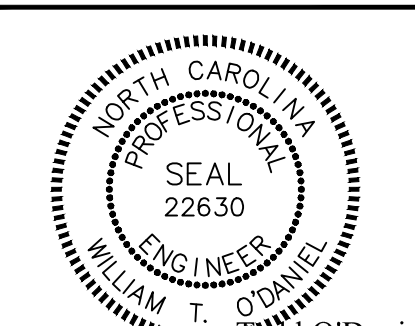
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PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



William T. O'Daniel
Mar 28 2022 9:02 AM

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NO.	DATE

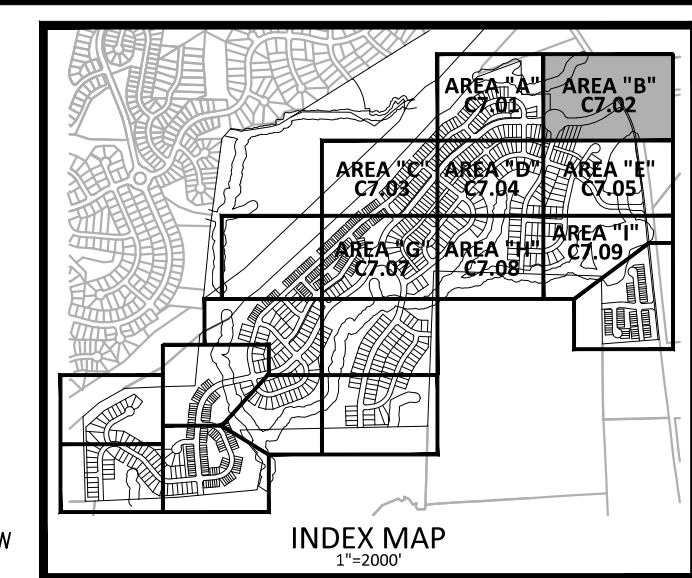
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 CHECKED BY .
 DRAWN BY .
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 DATE 03.21.2022

SHEET

PAVEMENT MARKING AND SIGNAGE PLAN
AREA "B"

C7.02



PAVEMENT MARKING LEGEND

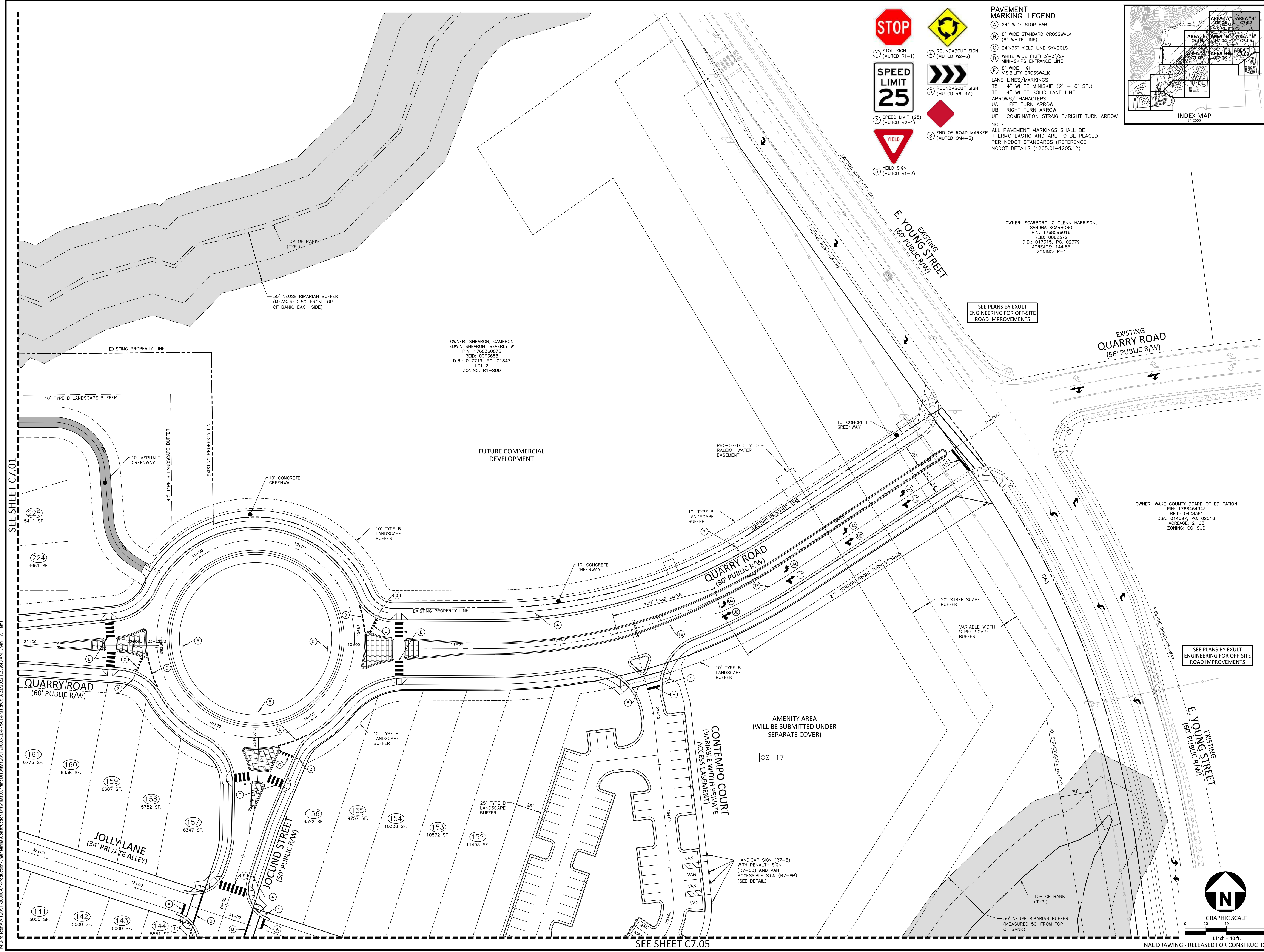
- A 24" WIDE STOP BAR
- B 8" WIDE STANDARD CROSSWALK (8" WHITE LINE)
- C 24"x36" YIELD LINE SYMBOLS
- D WHITE WIDE (12") 3'-3"/SP MINI-SKIPS ENTRANCE LINE
- E 8" WIDE HIGH VISIBILITY CROSSWALK
- LANE LINES/MARKINGS
 - TB 4" WHITE MINISKIP (2' - 6' SP.)
 - TE 4" WHITE SOLID LANE LINE
- ARROWS/CHARACTERS
 - LA LEFT TURN ARROW
 - UB RIGHT TURN ARROW
 - UE COMBINATION STRAIGHT/RIGHT TURN ARROW

NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE NCDOT DETAILS (1205.01-1205.12))

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SANDRA SCARBORO
PIN: 1768596016
REID: 0062572
D.B.: 017315, PG. 02379
ACREAGE: 144.85
ZONING: R-1

OWNER: SHEARON, CAMERON
EDWIN SHEARON, BEVERLY W
PIN: 1768596073
REID: 0063658
D.B.: 017719, PG. 01847
LOT 2
ZONING: R1-SUD

OWNER: WAKE COUNTY BOARD OF EDUCATION
PIN: 1768444343
REID: 0406361
D.B.: 014097, PG. 02016
ACREAGE: 21.03
ZONING: CO-SUD



SEE PLANS BY EXULT ENGINEERING FOR OFF-SITE ROAD IMPROVEMENTS

SEE PLANS BY EXULT ENGINEERING FOR OFF-SITE ROAD IMPROVEMENTS

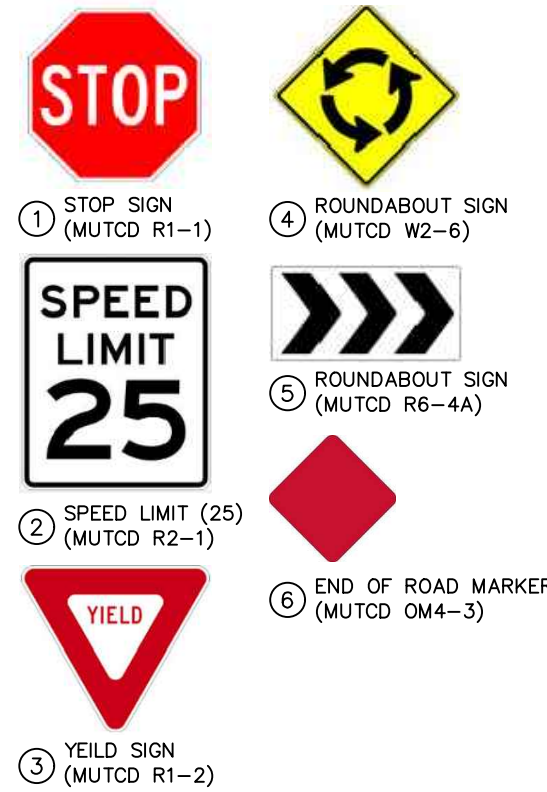
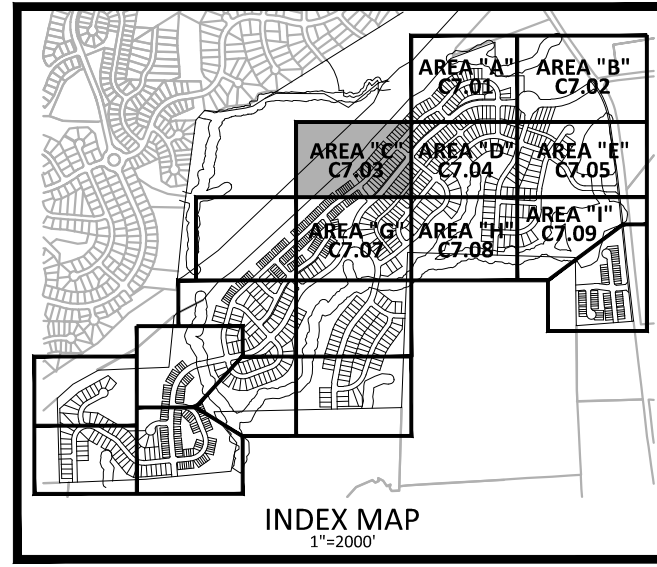


SEE SHEET C7.01

SEE SHEET C7.05

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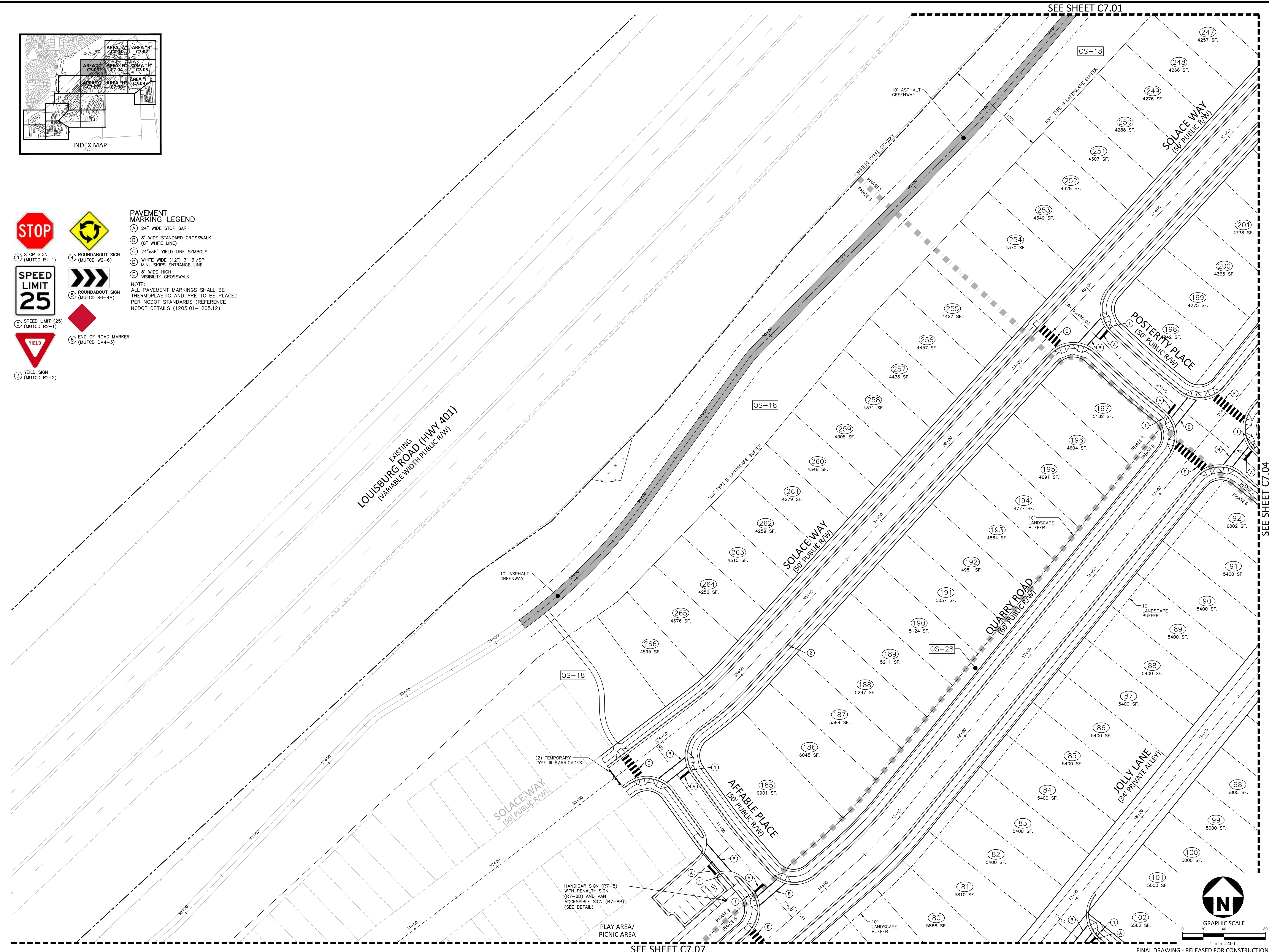


PAVEMENT MARKING LEGEND

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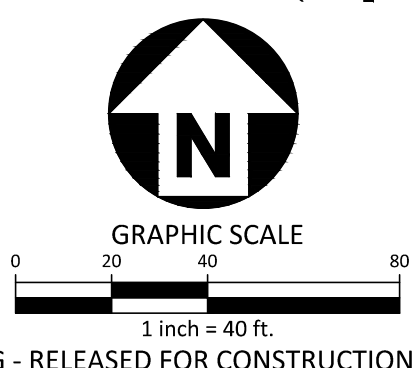
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SEE SHEET C7.07

SEE SHEET C7.04



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PHONE: 919. 232. 3695
CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

William T. O'Daniel
Professional Engineer
Seal No. 22630
Mar 28 2022 9:02 AM

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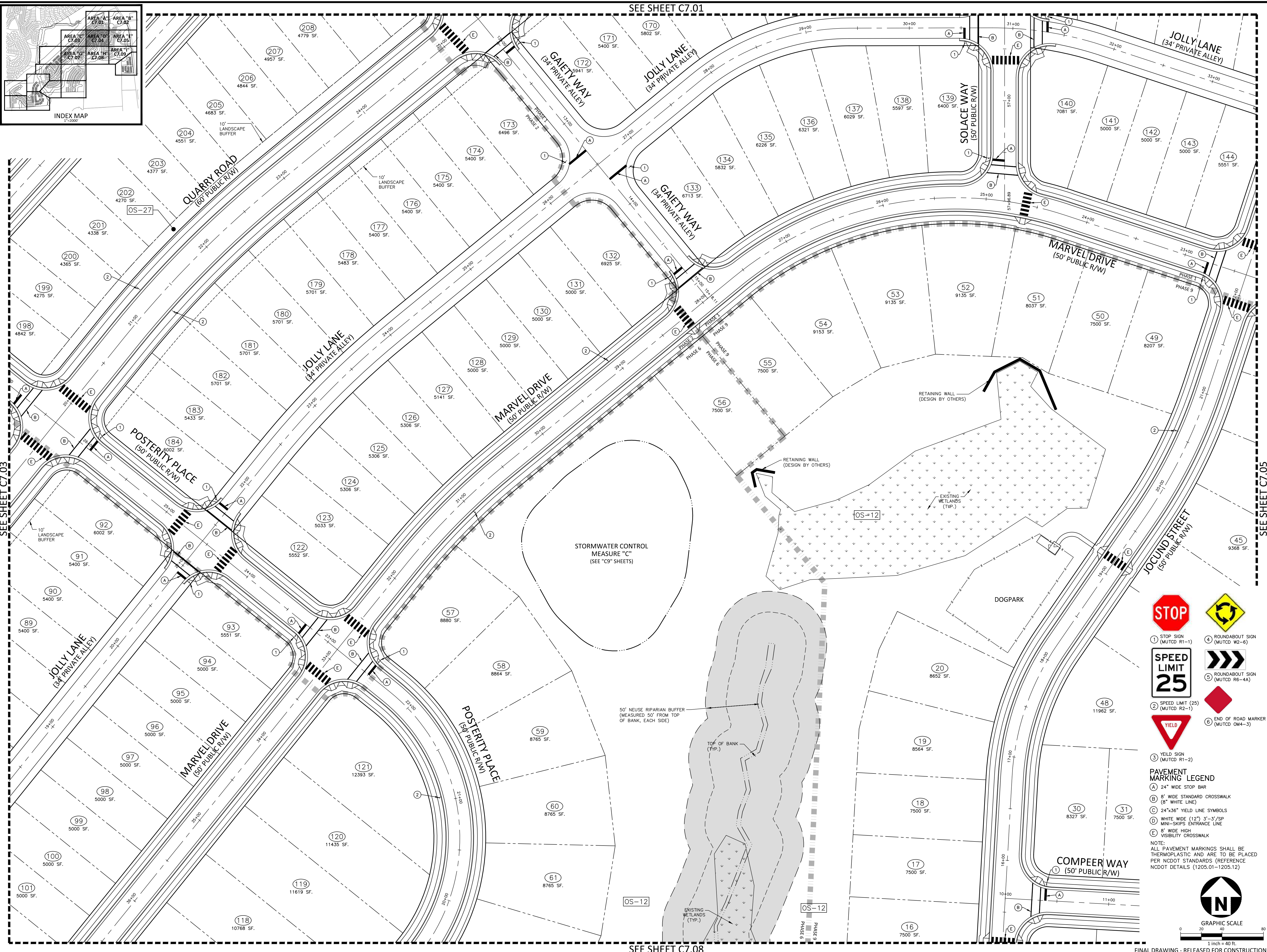
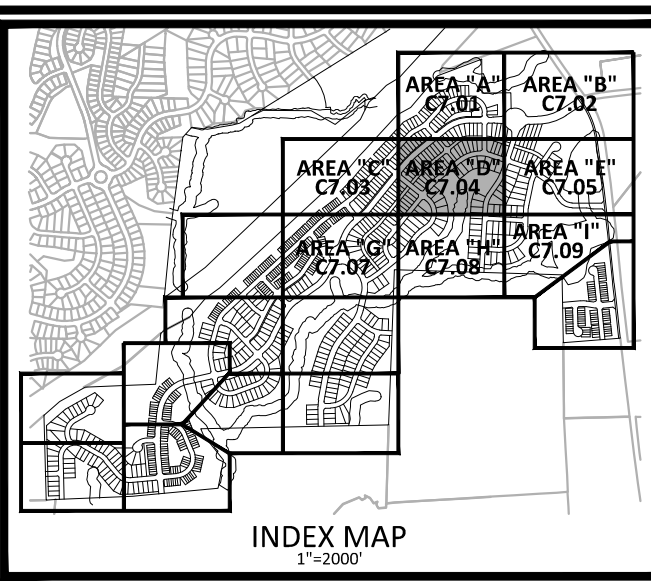
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SCALE	1"=40'
DATE	03. 21. 2022

SHEET
PAVEMENT MARKING AND SIGNAGE PLAN
AREA "C"
C7.03

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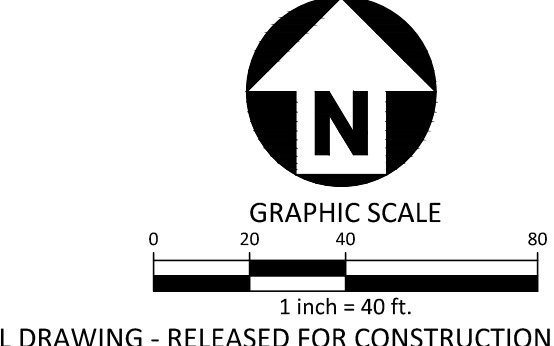
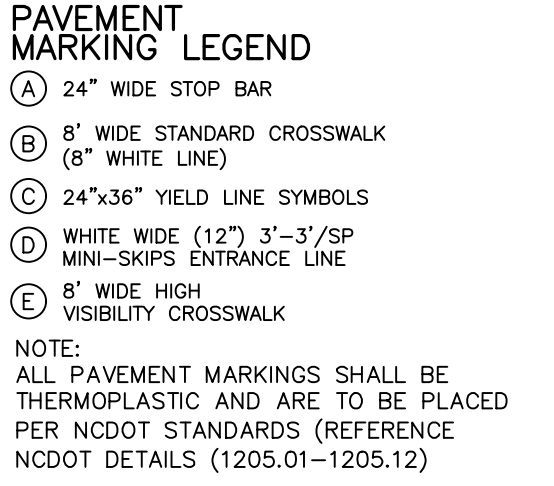
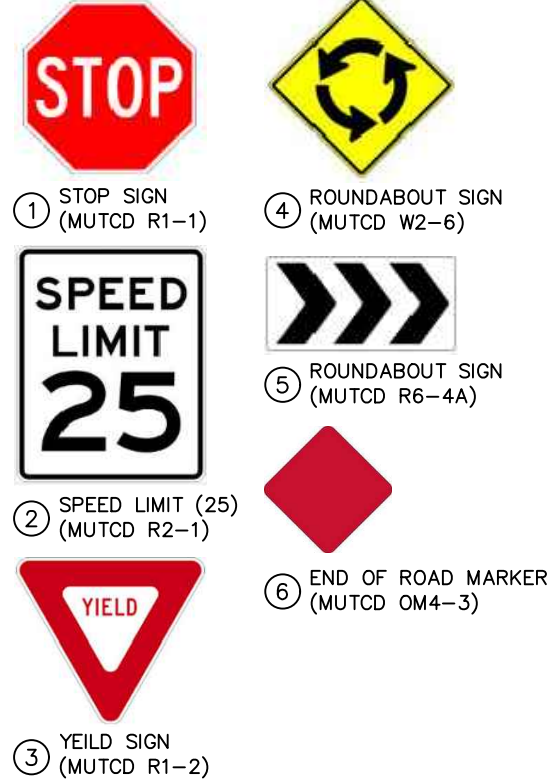


SEE SHEET C7.03

SEE SHEET C7.01

SEE SHEET C7.08

SEE SHEET C7.05



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WAKE COUNTY, NORTH CAROLINA

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PLAN INFORMATION

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FILENAME AWH20000-CD-PKG-01-S1
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DRAWN BY .
SCALE 1"=40'
DATE 03.21.2022

SHEET
PAVEMENT MARKING AND SIGNAGE PLAN
AREA "D"
C7.04

M:\Projects\AWH\AWH-20000\04-Production\Engineering\Construction Drawings\AWH20000-CD-PKG-01-S1.dwg, 3/21/2022 9:30:51 AM, Williams, 11

SEE SHEET C7.02

CONTEMPO COURT
(VARIABLE WIDTH PRIVATE
ACCESS EASEMENT)

AMENITY AREA
(WILL BE SUBMITTED UNDER
SEPARATE COVER)

HANDICAP SIGN (R7-B)
WITH PENALTY SIGN
(R7-8D) AND VAN
ACCESSIBLE SIGN (R7-8P)
(SEE DETAIL)

(3) "MAIL KIOSK PARKING
ONLY" SIGN (ONE AT EACH
PARKING SPACE)

HANDICAP SIGN (R7-B)
WITH PENALTY SIGN
(R7-8D) AND VAN
ACCESSIBLE SIGN (R7-8P)
(SEE DETAIL)

(3) "MAIL KIOSK PARKING
ONLY" SIGN (ONE AT EACH
PARKING SPACE)

OWNER: WAKE COUNTY BOARD OF EDUCATION
PINC: 1768464343
PID: 0408351
D.B.: 014097, PG: 02016
ACREAGE: 21.03
ZONING: CO-30D

SEE PLANS BY EXULT
ENGINEERING FOR OFF-SITE
ROAD IMPROVEMENTS

EXISTING
E. YOUNG STREET
(60' PUBLIC R/W)

EXISTING
"A" W-30-70-TRIP-STRIP OVERLAP

EXISTING
POND
TO REMAIN

TOP OF BANK
(TYP.)

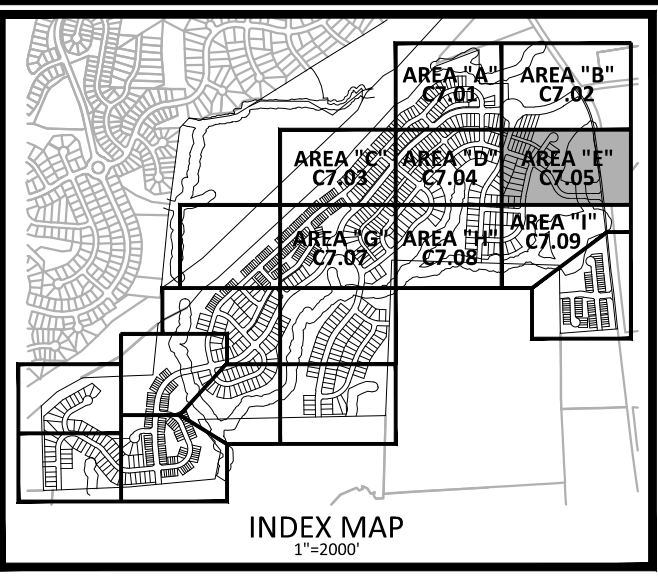
50' NEUSE RIPARIAN BUFFER
(MEASURED 50' FROM TOP
OF BANK)

RETAINING WALL
(DESIGN BY OTHERS)

SEE PLANS BY EXULT
ENGINEERING FOR OFF-SITE
ROAD IMPROVEMENTS

50' NEUSE RIPARIAN BUFFER
(MEASURED 50' FROM TOP
OF BANK - EACH SIDE)

GRAPHIC SCALE
1 inch = 40 ft.



McADAMS
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Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

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ASHTON RALEIGH RESIDENTIAL, LLC.
5711 SIX FORKS ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 232. 3695
CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PROFESSIONAL SEAL
22630
WILLIAM O'DANIEL
ENGINEER

Todd O'Daniel
Mar 28 2022 9:04 AM

REVISIONS

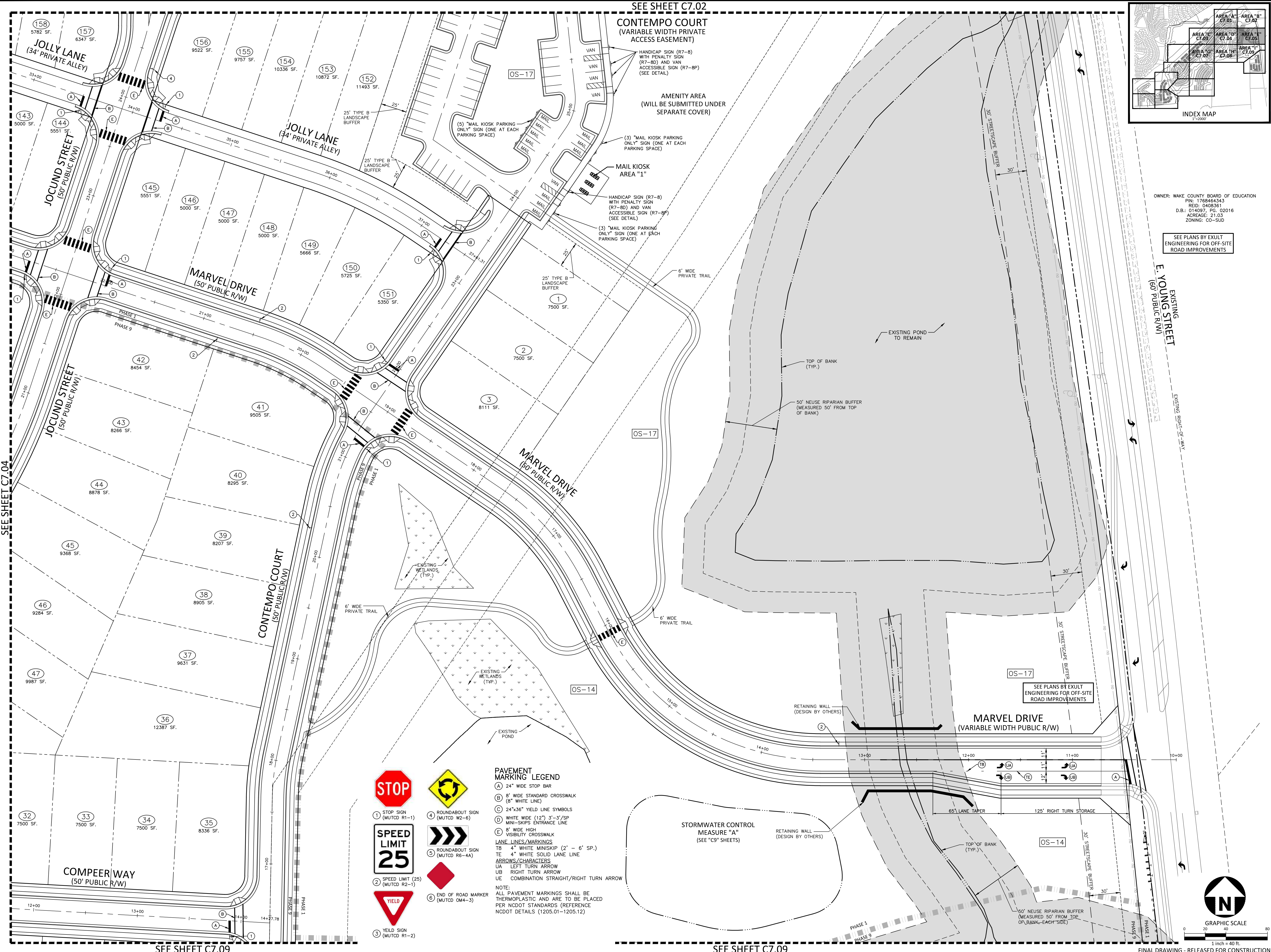
NO.	DATE

PLAN INFORMATION

PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-51
CHECKED BY .
DRAWN BY .
SCALE 1"=40'
DATE 03.21.2022

SHEET

**PAVEMENT MARKING
AND SIGNAGE PLAN
AREA "E"**
C7.05

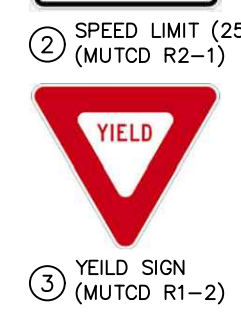


SEE SHEET C7.04

SEE SHEET C7.09

SEE SHEET C7.09

FINAL DRAWING - RELEASED FOR CONSTRUCTION



PAVEMENT MARKING LEGEND

A 24" WIDE STOP BAR
B 8" WIDE STANDARD CROSSWALK (8" WHITE LINE)
C 24"x36" YIELD LINE SYMBOLS
D WHITE WIDE (12") 3"-3"/SP MINI-SKIPS ENTRANCE LINE
E 6" WIDE HIGH VISIBILITY CROSSWALK

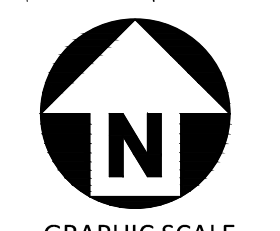
LANE LINES/MARKINGS

T8 4" WHITE MINISKIP (2' - 6" SP.)
TE 4" WHITE SOLID LANE LINE
ARROWS/CHARACTERS
UA LEFT TURN ARROW
UB RIGHT TURN ARROW
UE COMBINATION STRAIGHT/RIGHT TURN ARROW

NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE NCDOT DETAILS (1205.01-1205.12)

STORMWATER CONTROL MEASURE "A"
(SEE "C9" SHEETS)

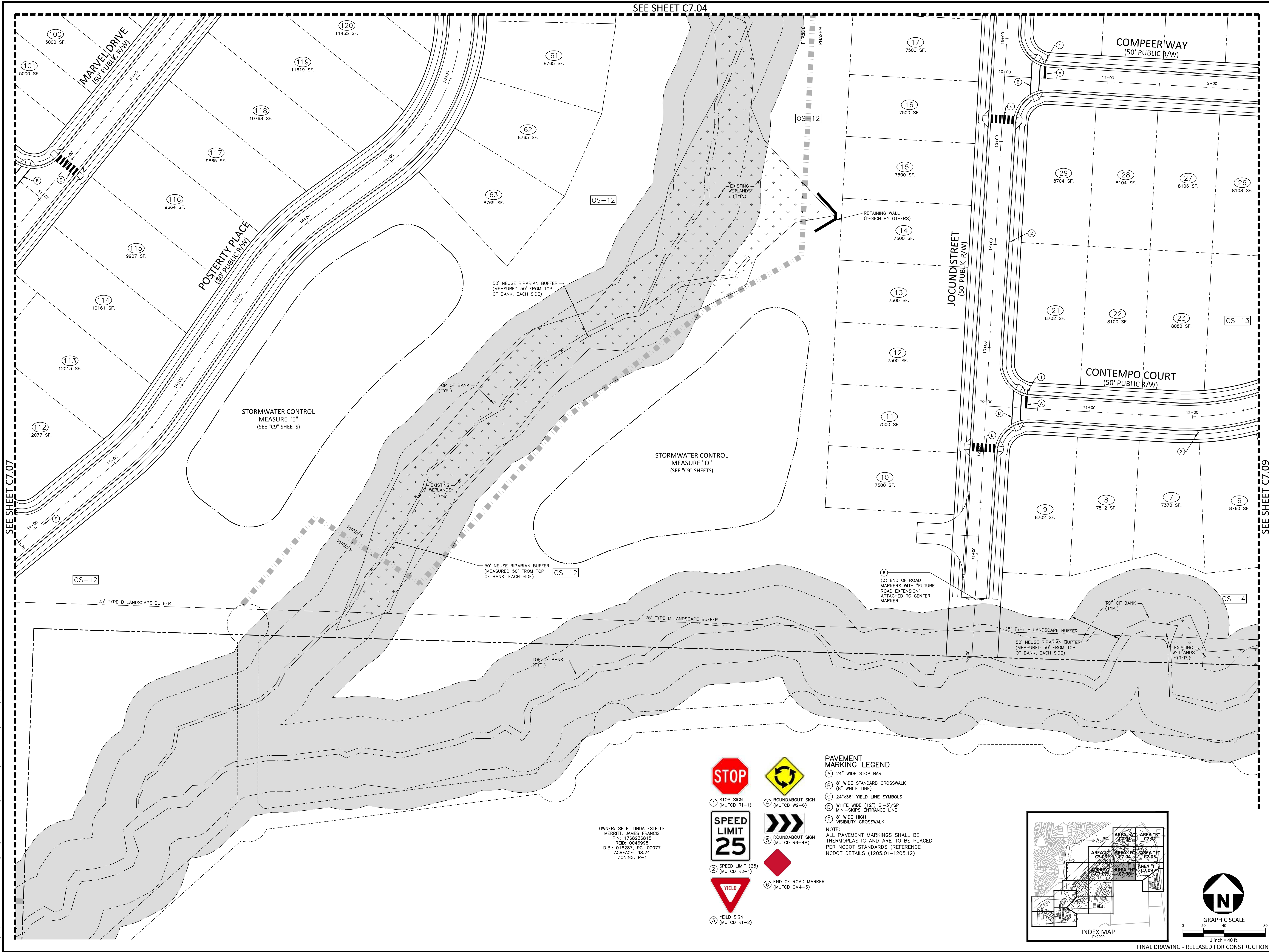
RETAINING WALL (DESIGN BY OTHERS)



GRAPHIC SCALE
1 inch = 40 ft.

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SEE SHEET C7.04



SEE SHEET C7.07

SEE SHEET C7.09

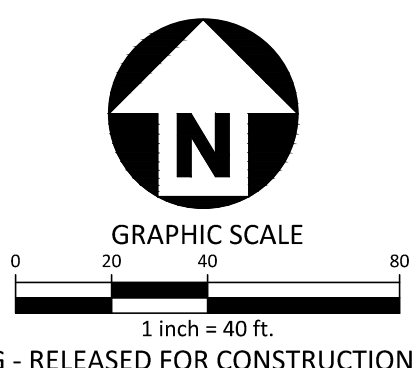
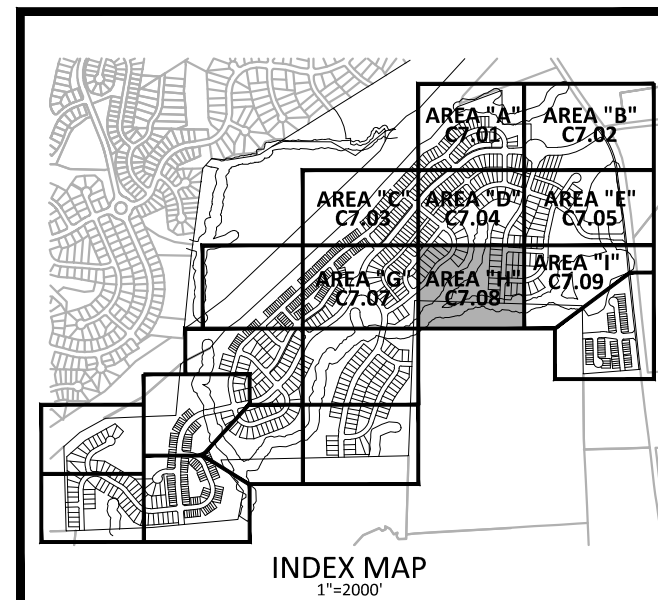
OWNER: SELF, LINDA ESTELLE
 MERRITT, JAMES FRANCIS
 PIN: 1768236815
 REG: 0046995
 D.B.I. 016267, PG. 00077
 ACREAGE: 98.24
 ZONING: R-1



PAVEMENT MARKING LEGEND

- (A) 24" WIDE STOP BAR
- (B) 8" WIDE STANDARD CROSSWALK (8" WHITE LINE)
- (C) 24"x36" YIELD LINE SYMBOLS
- (D) WHITE WIDE (12") 3"-3"/SP MINI-SKIPS ENTRANCE LINE
- (E) 8" WIDE HIGH VISIBILITY CROSSWALK

NOTE:
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 Durham, NC 27713
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 fax 919. 361. 2269
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 www.mcadamsco.com

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 5711 SIX FORKS ROAD, SUITE 300
 RALEIGH, NORTH CAROLINA 27609
 PHONE: 919. 232. 3695
 CONTACT: BOB MISHLER

ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

William T. O'Daniel
 Seal No. 22630
 Mar 28 2022 9:05 AM

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-01-51
CHECKED BY	
DRAWN BY	
SCALE	1"=40'
DATE	03. 21. 2022

SHEET
PAVEMENT MARKING AND SIGNAGE PLAN
AREA "H"
C7.08

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SEE SHEET C7.05



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RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 232. 3695
CONTACT: BOB MISHLER



ASHTON WOODS.

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



William F. O'Daniel
Mar 28 2022 9:06 AM

REVISIONS

NO. DATE

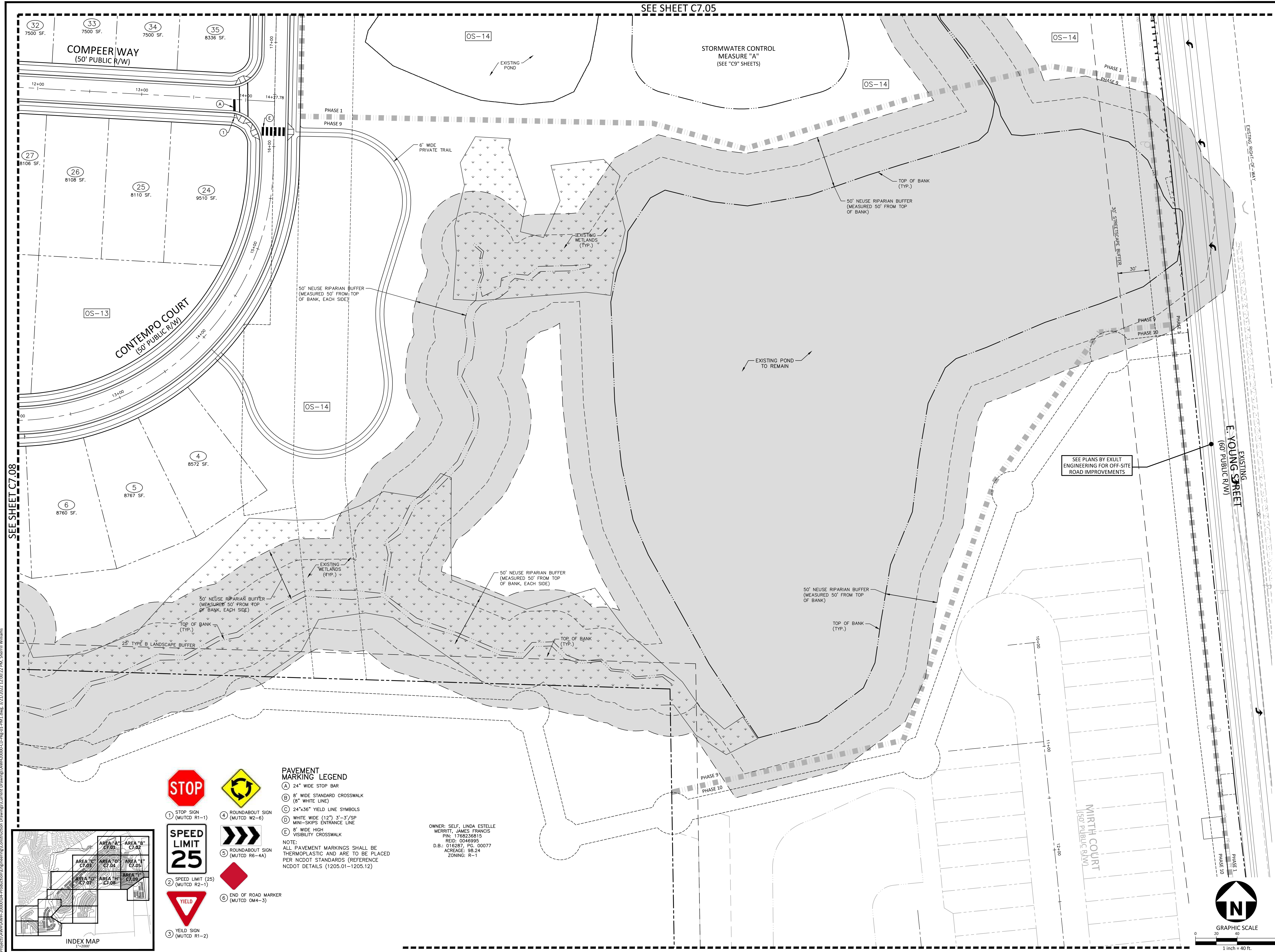
PLAN INFORMATION

PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-S1
CHECKED BY
DRAWN BY
SCALE 1"=40'
DATE 03.21.2022

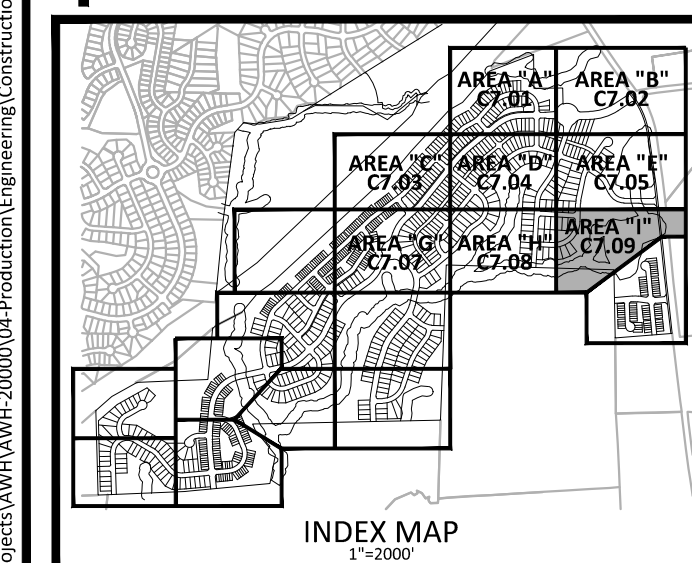
SHEET

PAVEMENT MARKING AND SIGNAGE PLAN
AREA "I"

C7.09



SEE SHEET C7.08



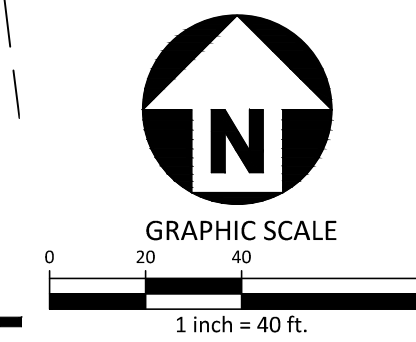
PAVEMENT MARKING LEGEND

- (A) 24" WIDE STOP BAR
- (B) 8" WIDE STANDARD CROSSWALK (8" WHITE LINE)
- (C) 24"x36" YIELD LINE SYMBOLS
- (D) WHITE WIDE (12") 3'-3"/SP MINI-SKIPS ENTRANCE LINE
- (E) 8" WIDE HIGH VISIBILITY CROSSWALK

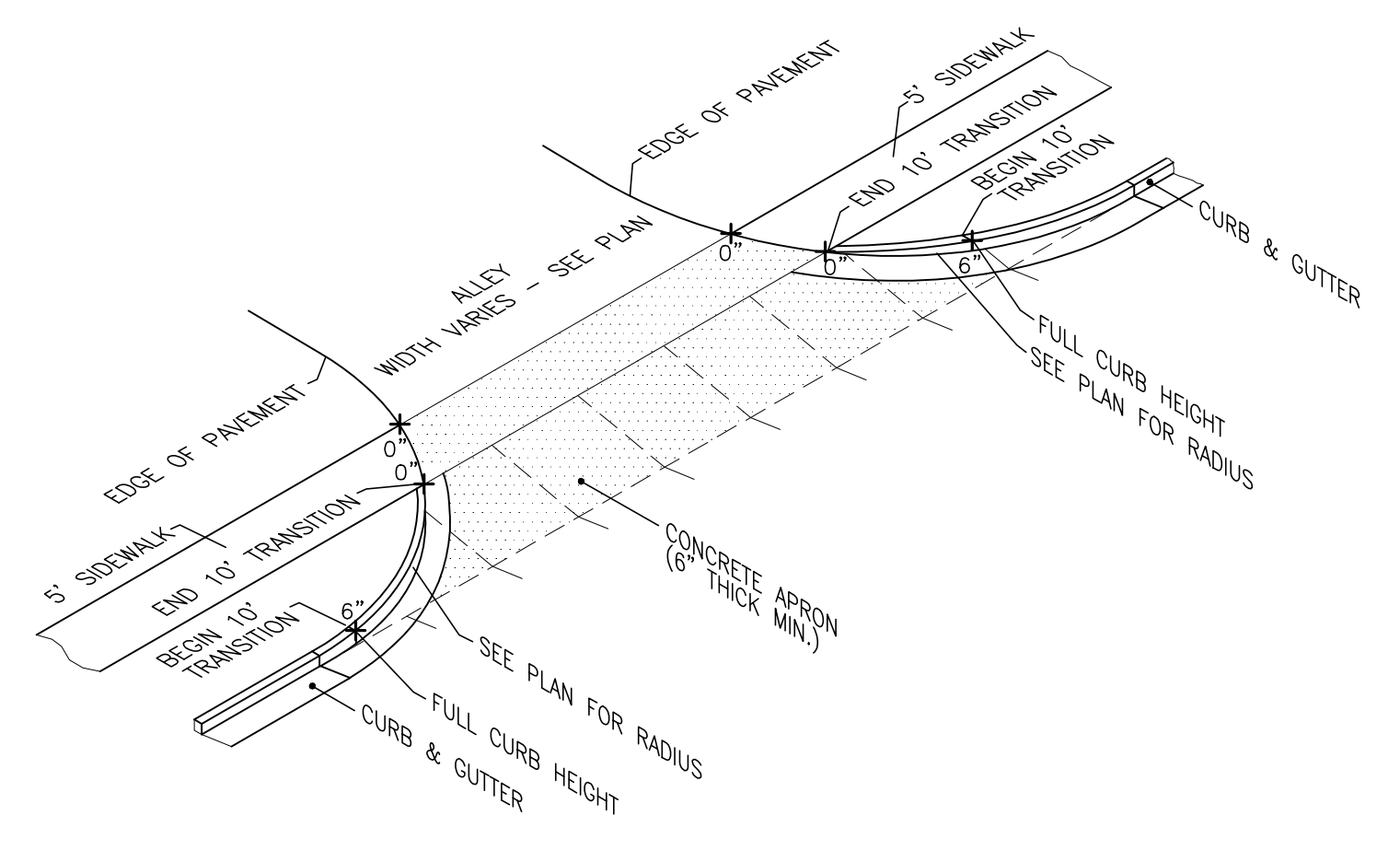
NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE NCDOT DETAILS (1205.01-1205.12)

- (1) STOP SIGN (MUTCD R1-1)
- (2) SPEED LIMIT (25) (MUTCD R2-1)
- (3) YIELD SIGN (MUTCD R1-2)
- (4) ROUNDABOUT SIGN (MUTCD W2-6)
- (5) ROUNDABOUT SIGN (MUTCD R6-4A)
- (6) END OF ROAD MARKER (MUTCD OM4-3)

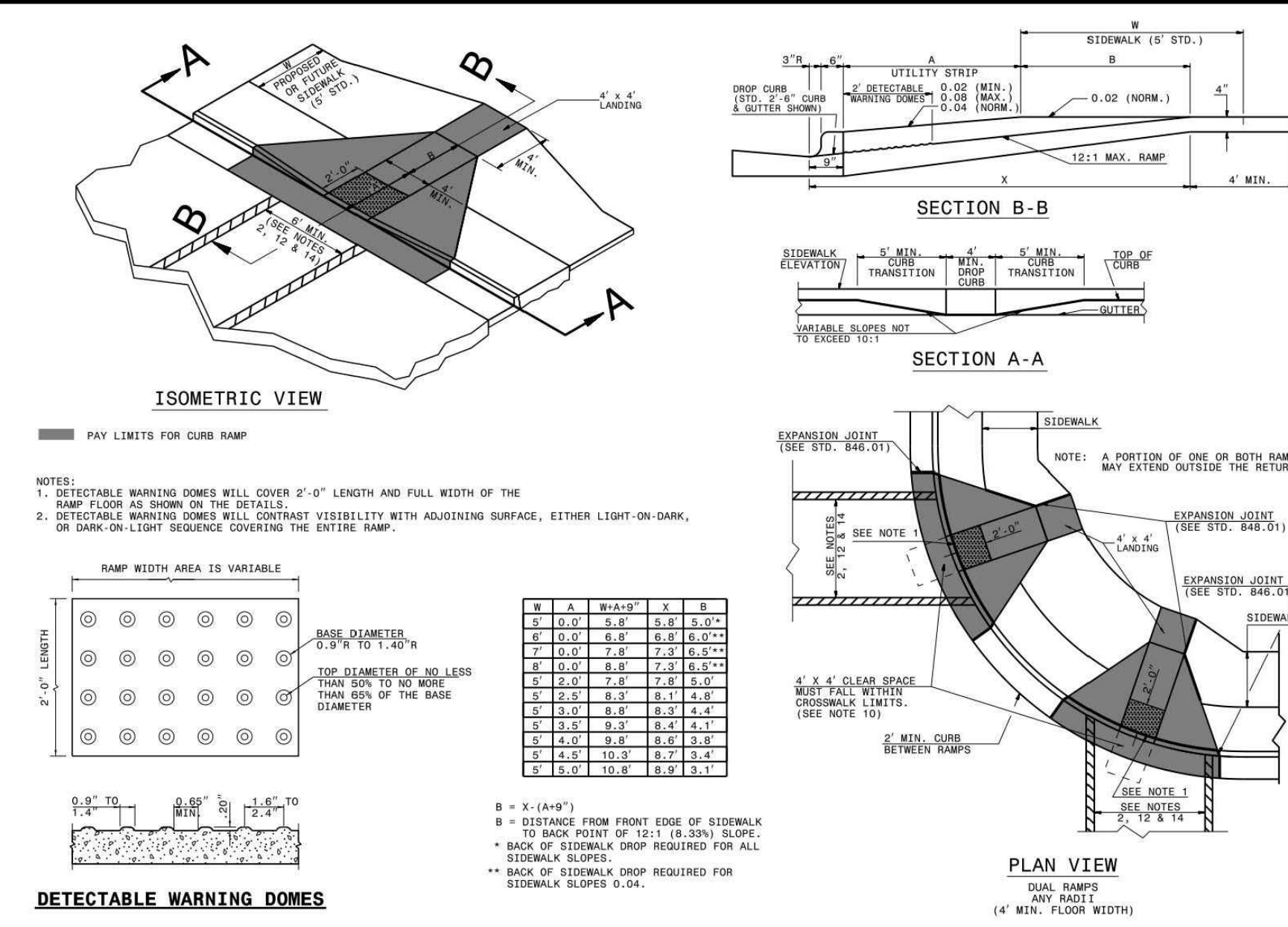
OWNER: SELF, LINDA ESTELLE MERRITT, JAMES FRANCIS
PIN: 1768236815
REID: 0046995
D.B.: 018287, PG. 00077
ACRAGE: 98.24
ZONING: R-1



FINAL DRAWING - RELEASED FOR CONSTRUCTION



RESIDENTIAL ALLEY ENTRANCE DETAIL
N.T.S.

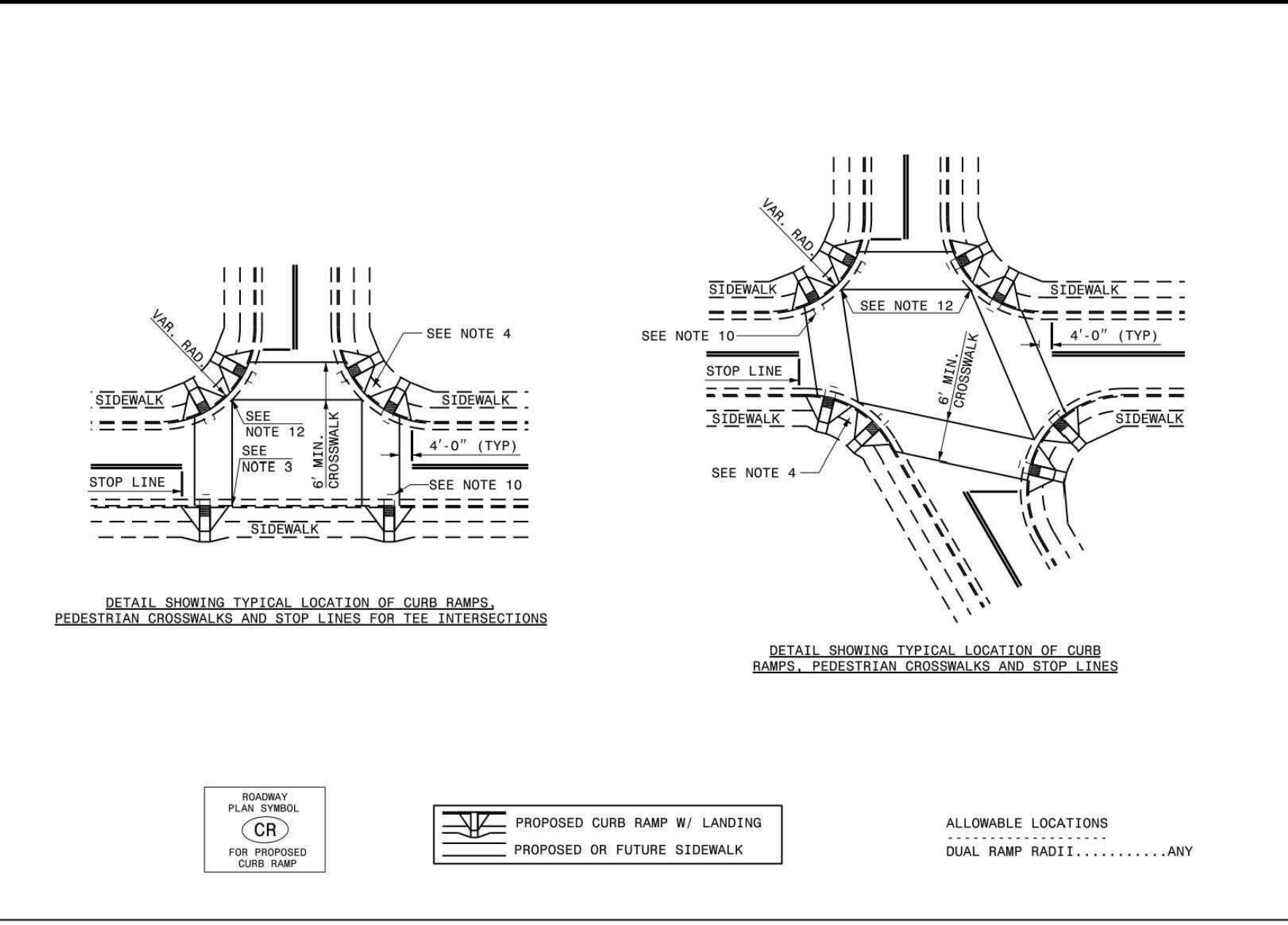


DETECTABLE WARNING DOMES

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

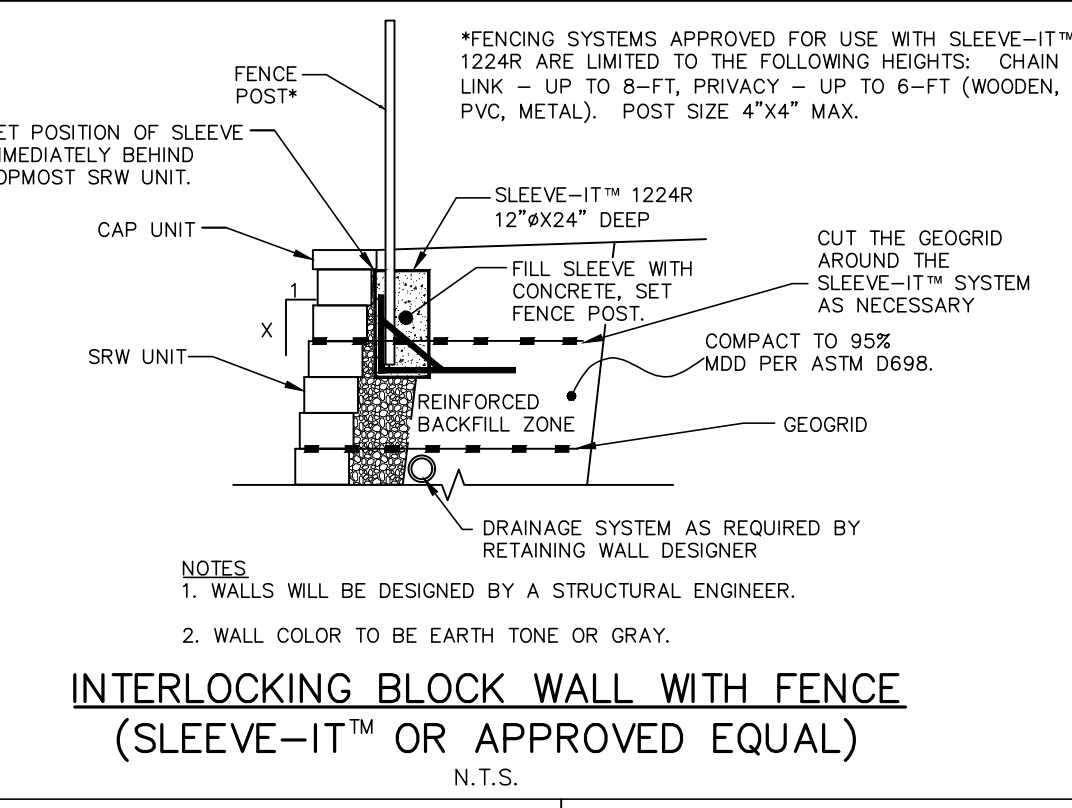
SHEET 1 OF 3
848.05



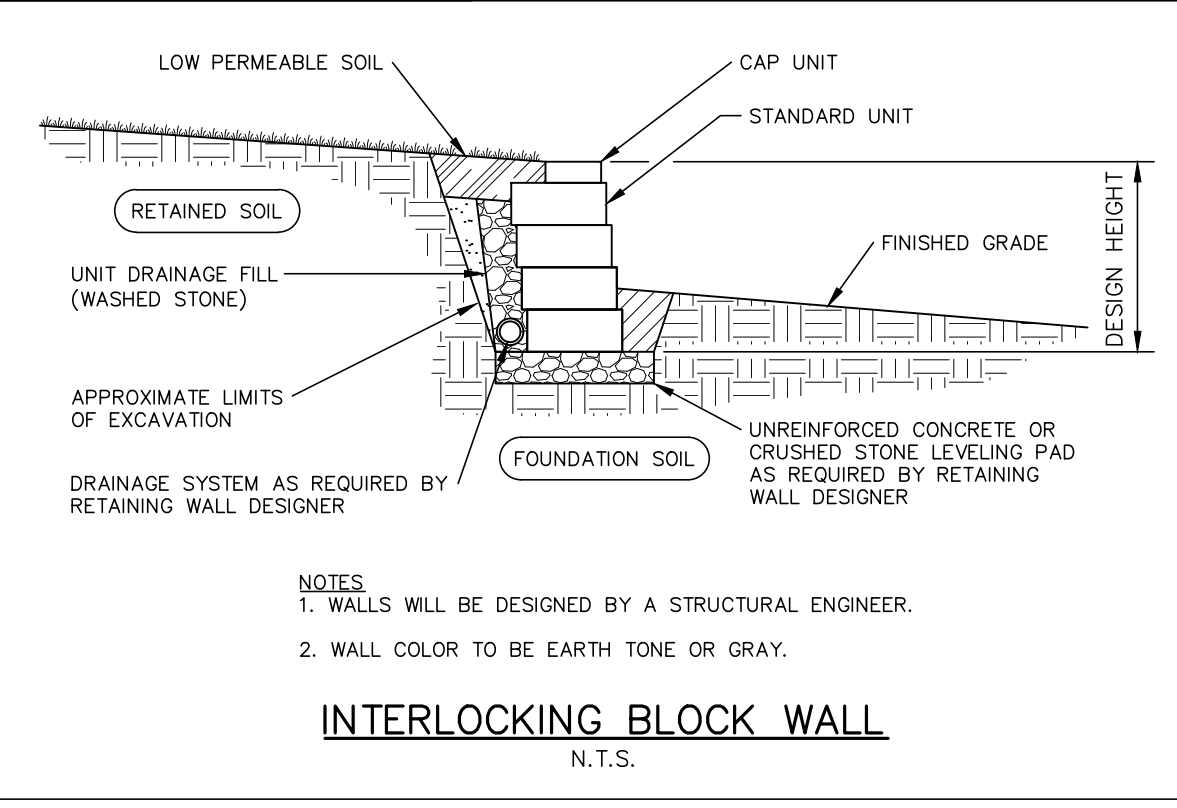
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

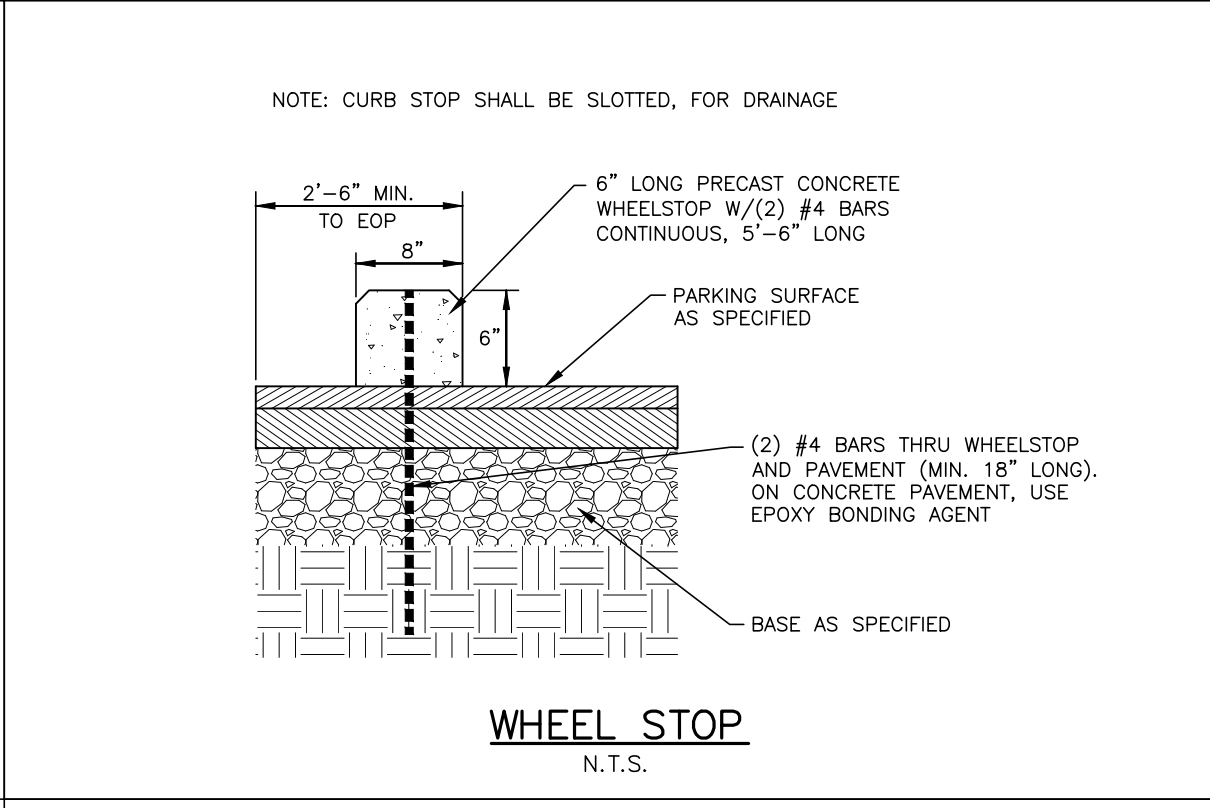
SHEET 2 OF 3
848.05



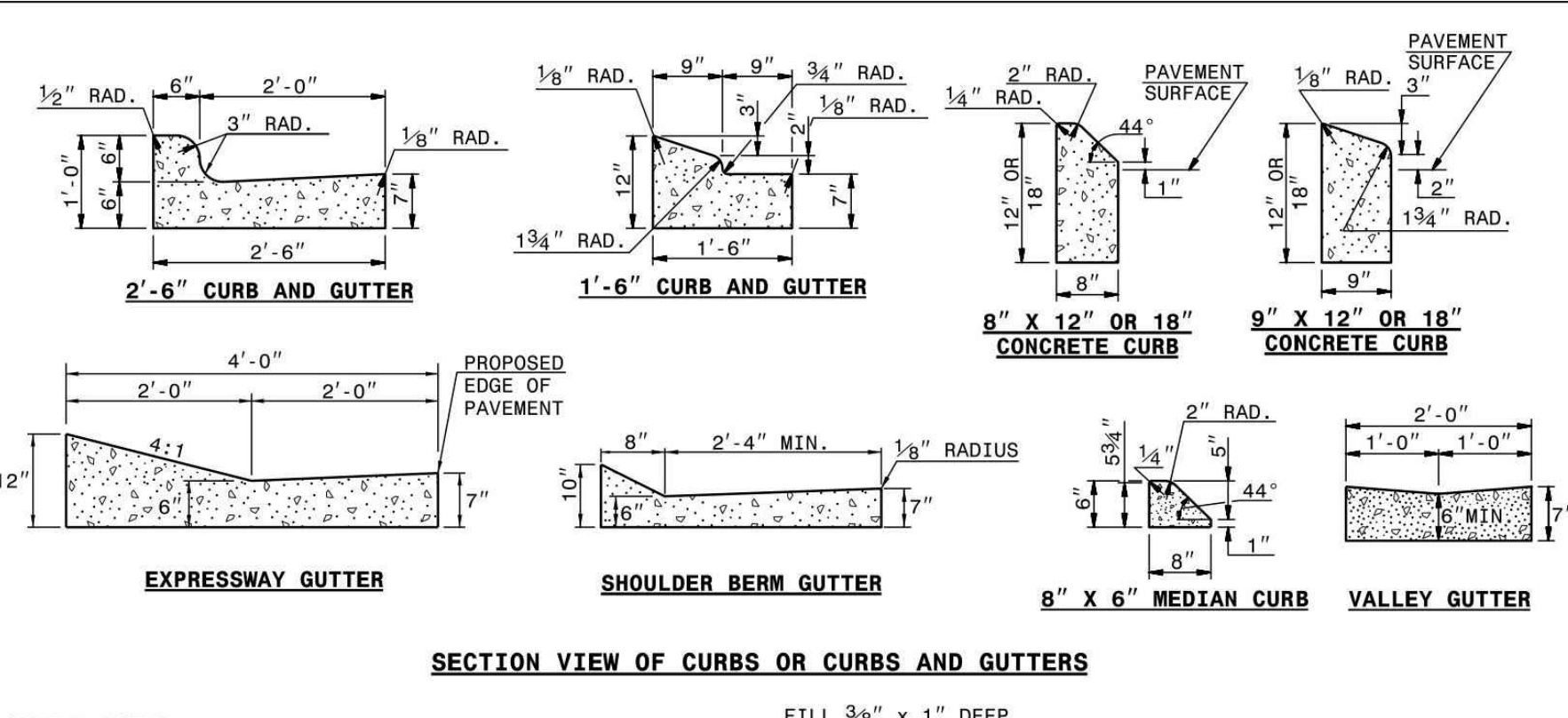
INTERLOCKING BLOCK WALL WITH FENCE (SLEEVE-IT™ OR APPROVED EQUAL)
N.T.S.



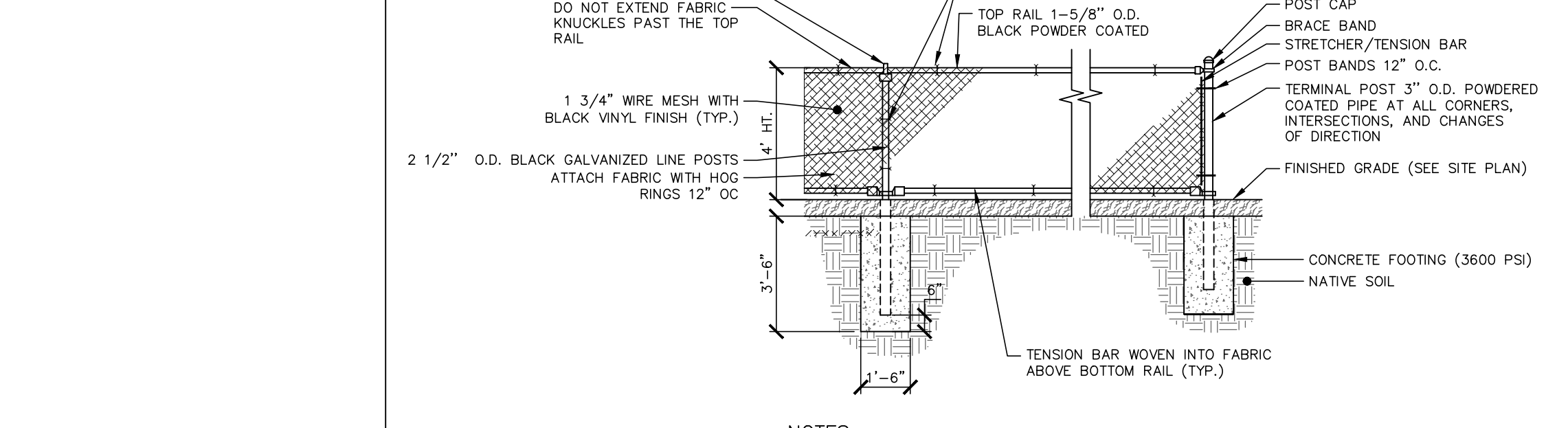
INTERLOCKING BLOCK WALL
N.T.S.



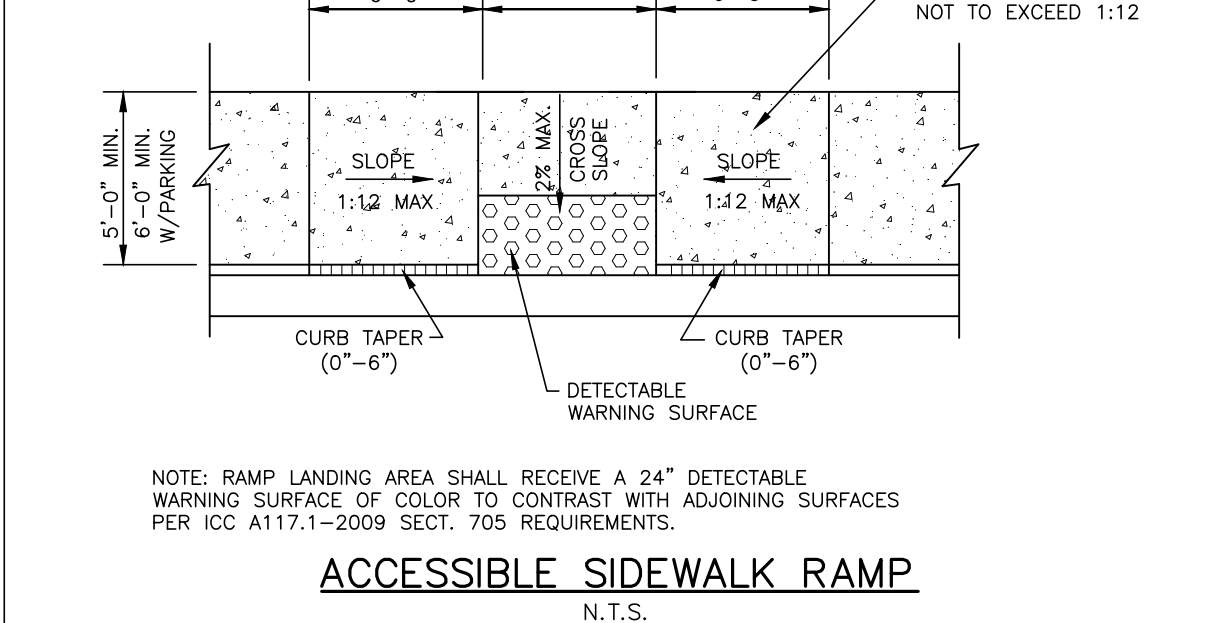
WHEEL STOP
N.T.S.



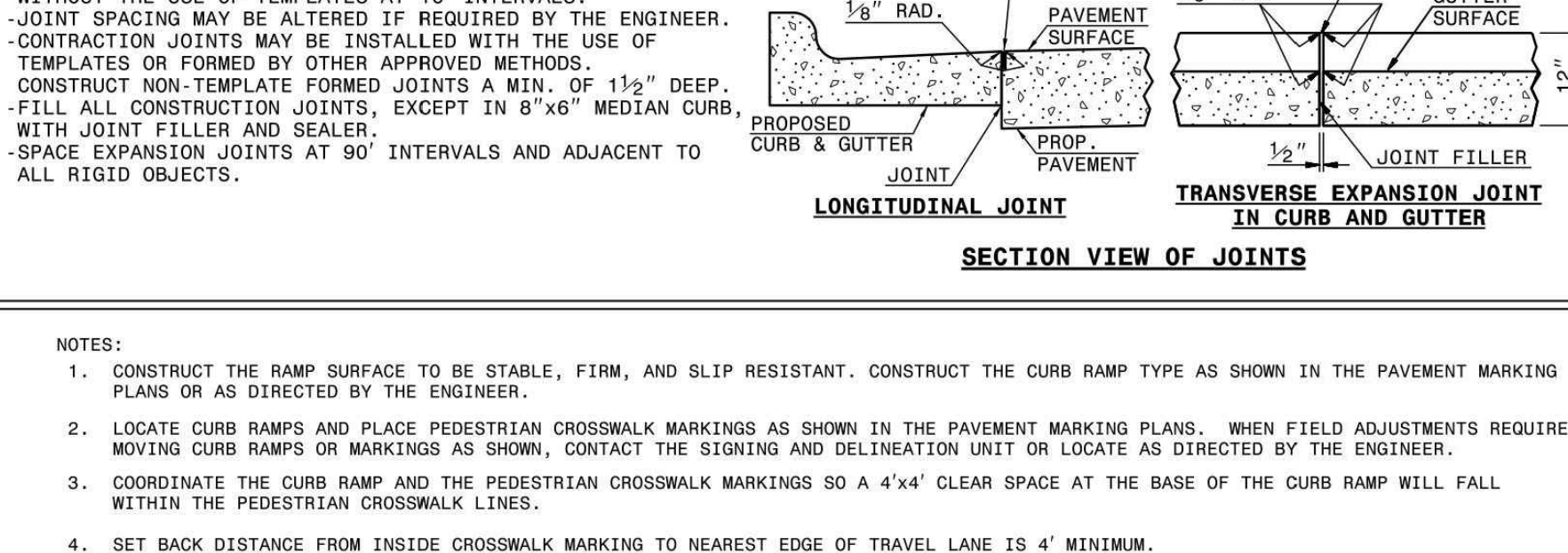
SECTION VIEW OF CURBS OR CURBS AND GUTTERS



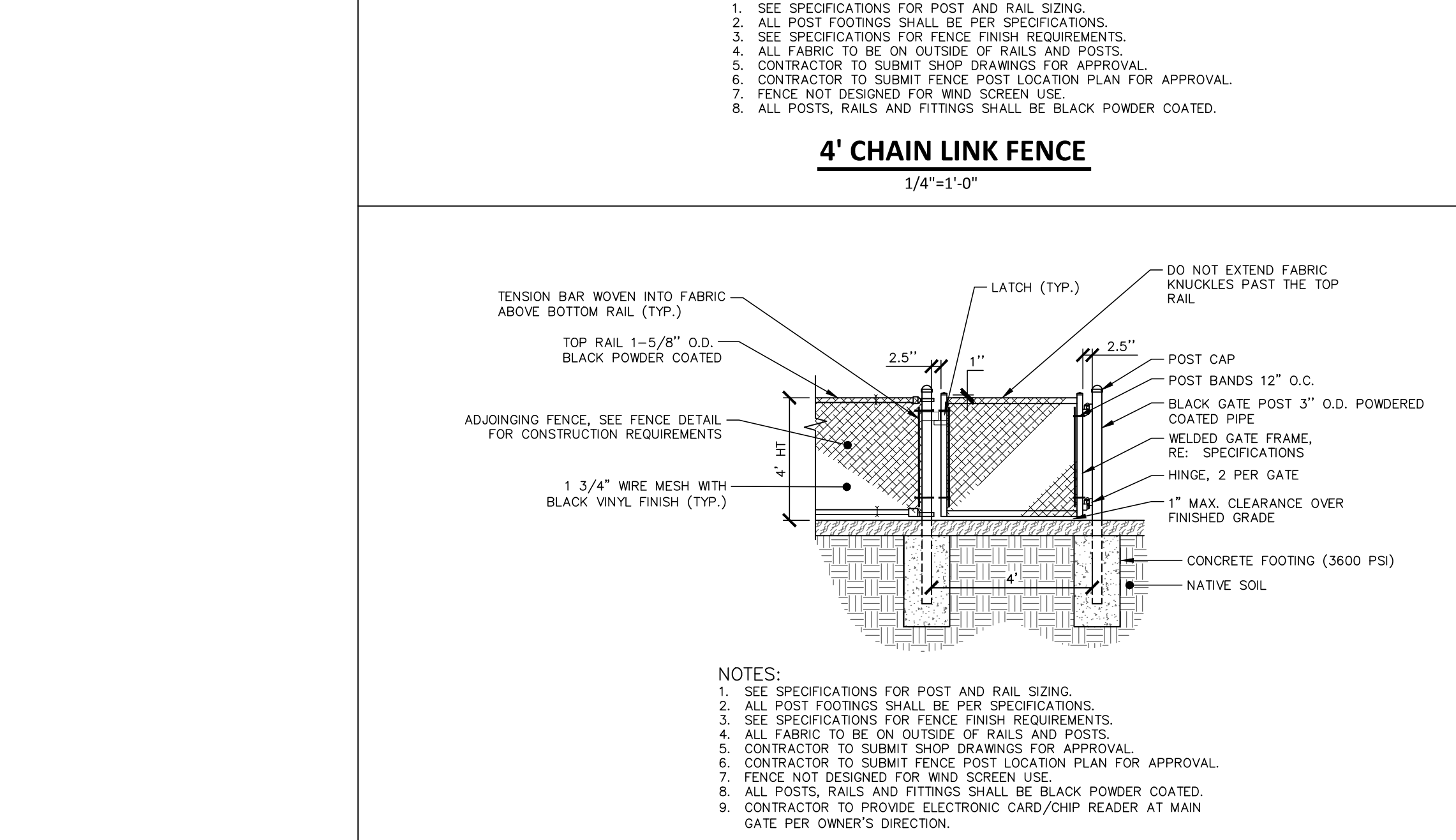
4' CHAIN LINK FENCE
1/4"=1'-0"



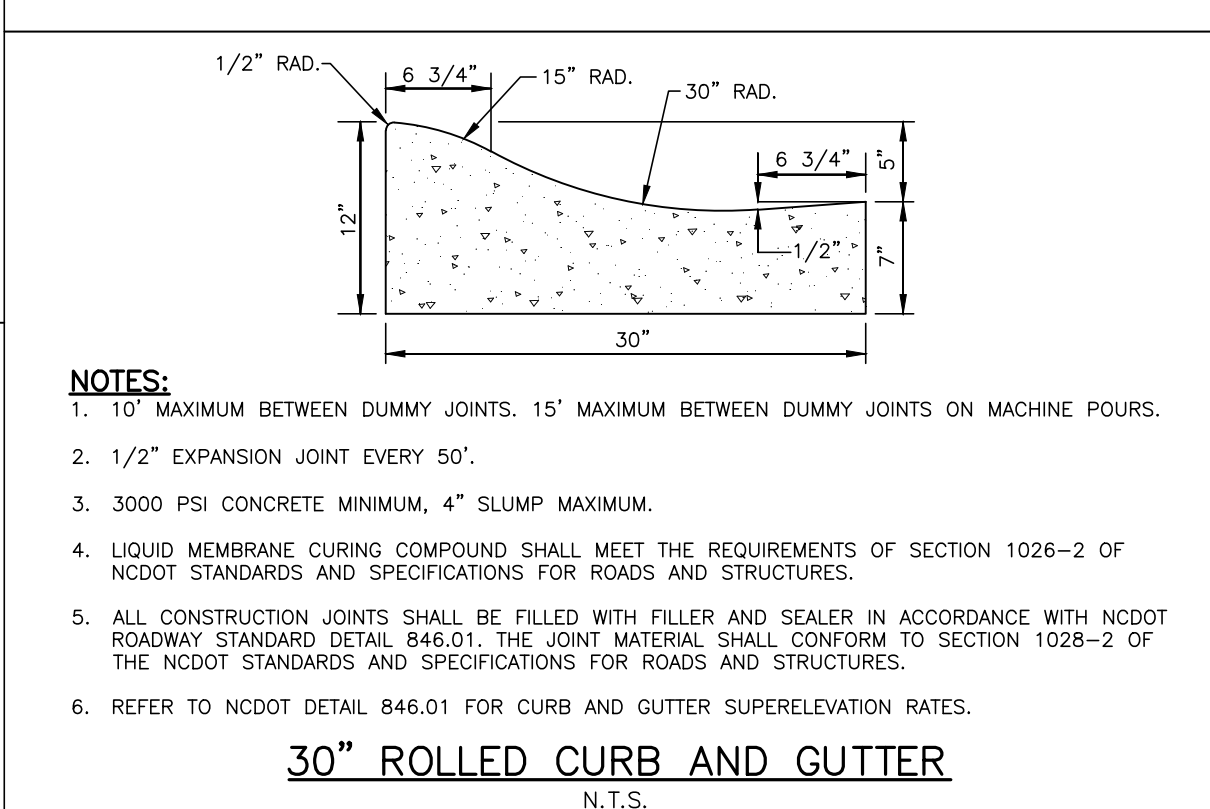
ACCESSIBLE SIDEWALK RAMP
N.T.S.



SECTION VIEW OF JOINTS



4' CHAIN LINK FENCE SINGLE SWING GATE
1/4"=1'-0"



30" ROLLED CURB AND GUTTER
N.T.S.

- GENERAL NOTES:
- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER. CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1 1/2" DEEP. FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
 - SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.
 - CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
 - LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
 - COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
 - SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
 - REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
 - TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
 - CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
 - CONSTRUCT THE RUNNING SLOPE OF THE RAMP 0.33% MAXIMUM.
 - ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
 - CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
 - CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
 - TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
 - SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
 - CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
 - PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
 - PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
 - CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CURB, GUTTER AND CURB & GUTTER

SHEET 1 OF 3
846.01

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMPS

SHEET 3 OF 3
848.05

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license number: C-0293, C-187

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CLIENT
ASHTON RALEIGH RESIDENTIAL, LLC.
5711 SIX FORKS ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 232. 3695
CONTACT: BOB MISHLER

ASHTON WOODS

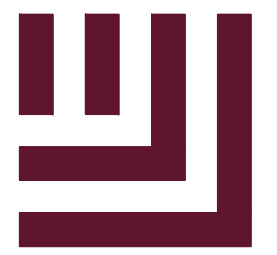
THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

W. T. O'Daniel
Professional Engineer
Seal 22630
Mar 18 2022 3:36 PM

REVISIONS
NO. DATE

PLAN INFORMATION
PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-D1
CHECKED BY .
DRAWN BY .
SCALE N.T.S.
DATE 03. 21. 2022

SHEET
SITE DETAILS
C8.00



McAdams

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2905 Meridian Parkway
Durham, NC 27713

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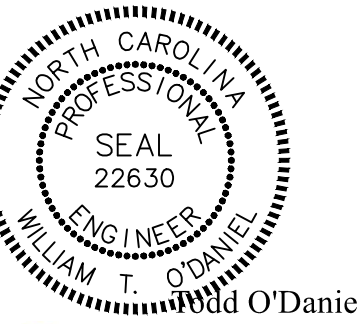
www.mcadamsco.com

CLIENT

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5711 SIX FORKS ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 232. 3695
CONTACT: BOB MISHLER



THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



William F. O'Daniel
Mar 18 2022 3:38 PM

REVISIONS

Table with 2 columns: NO. and DATE

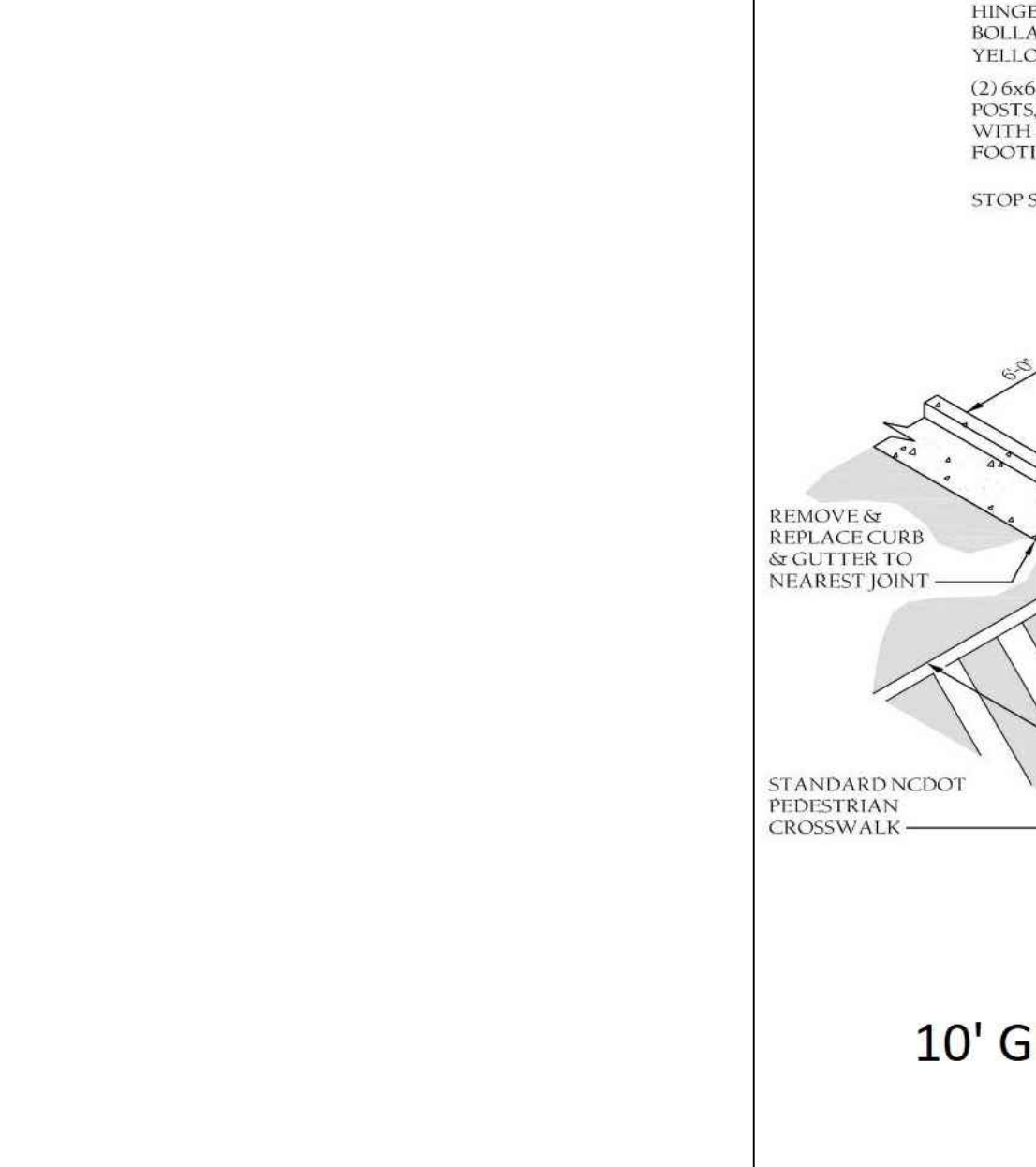
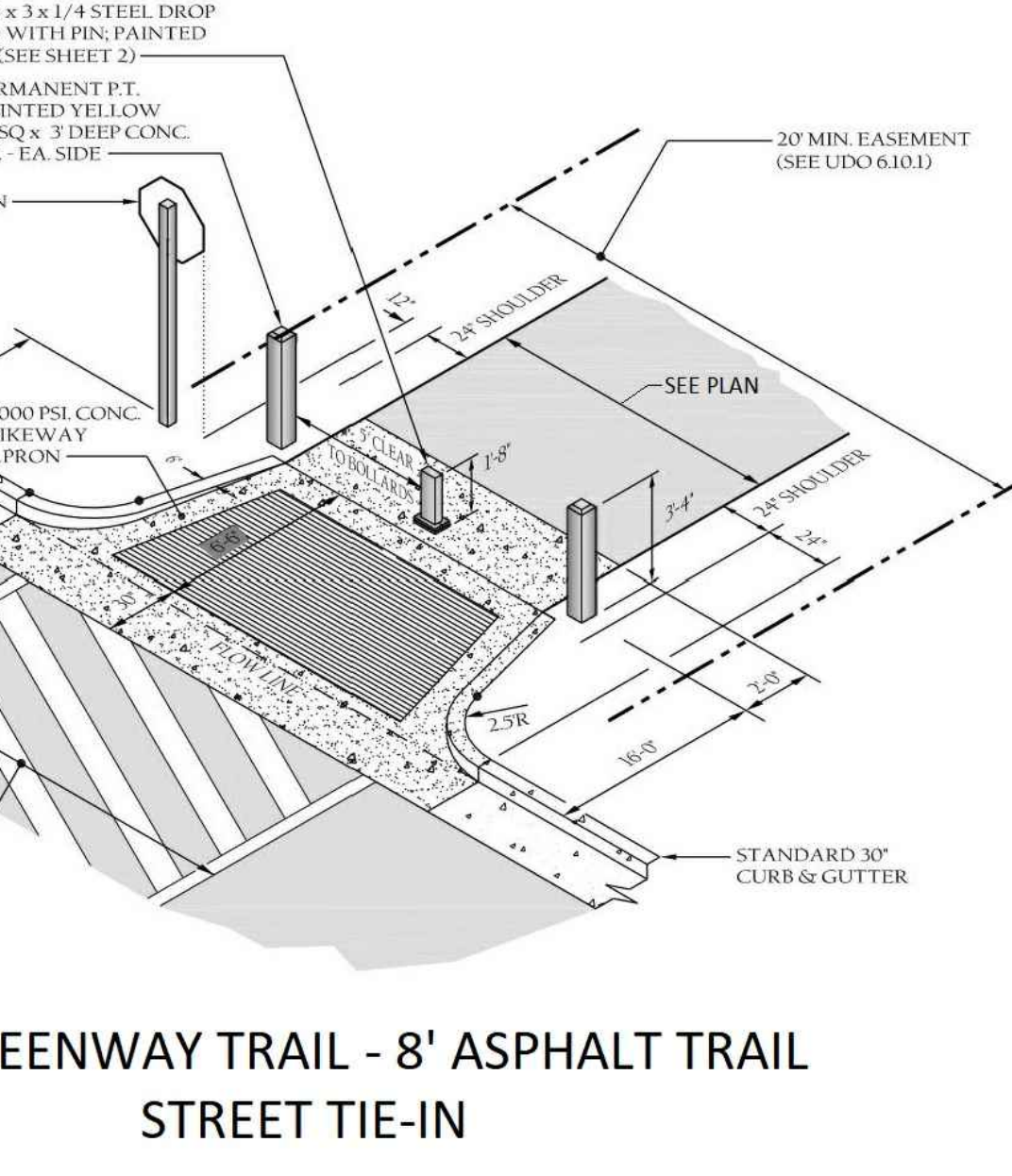
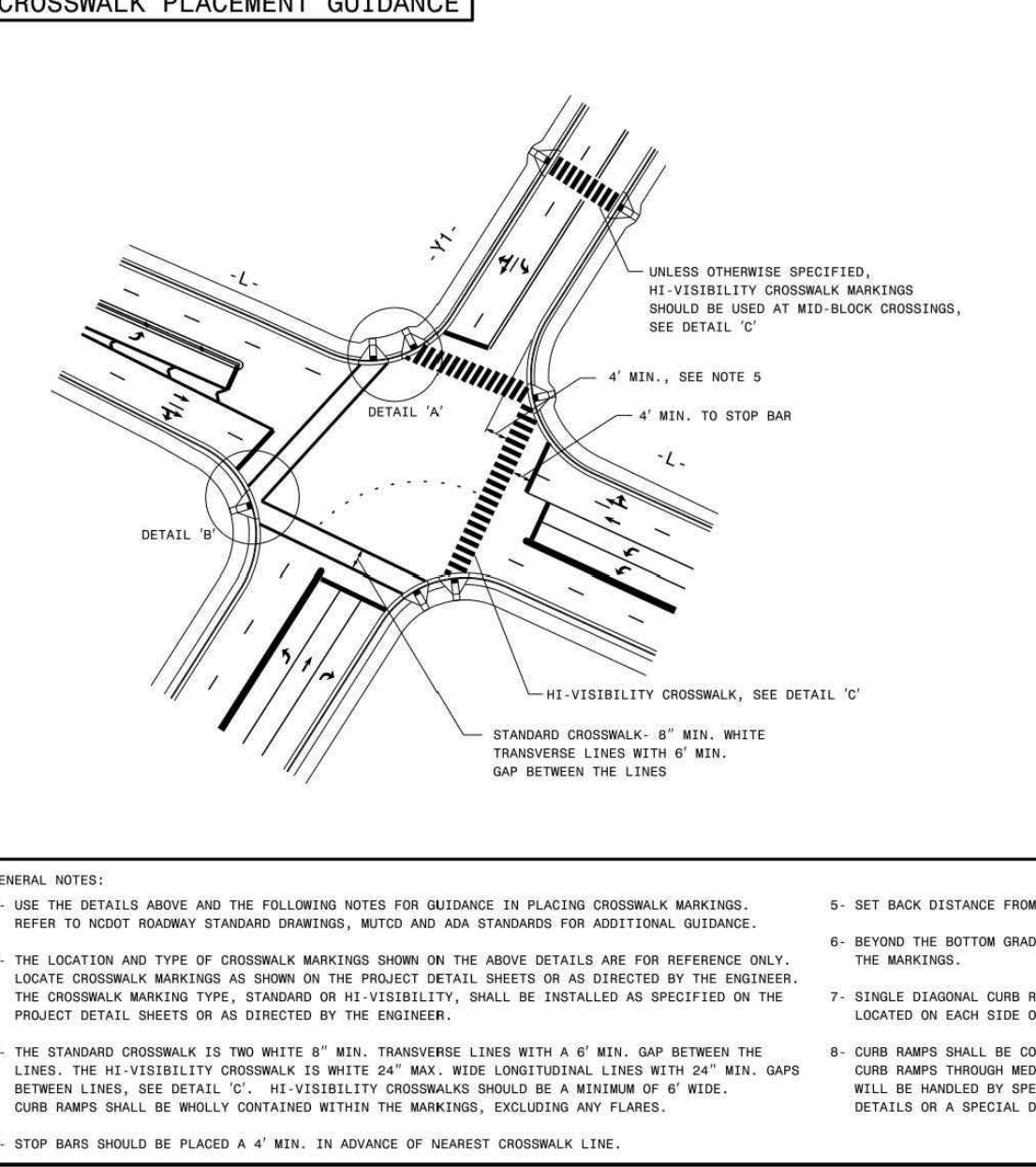
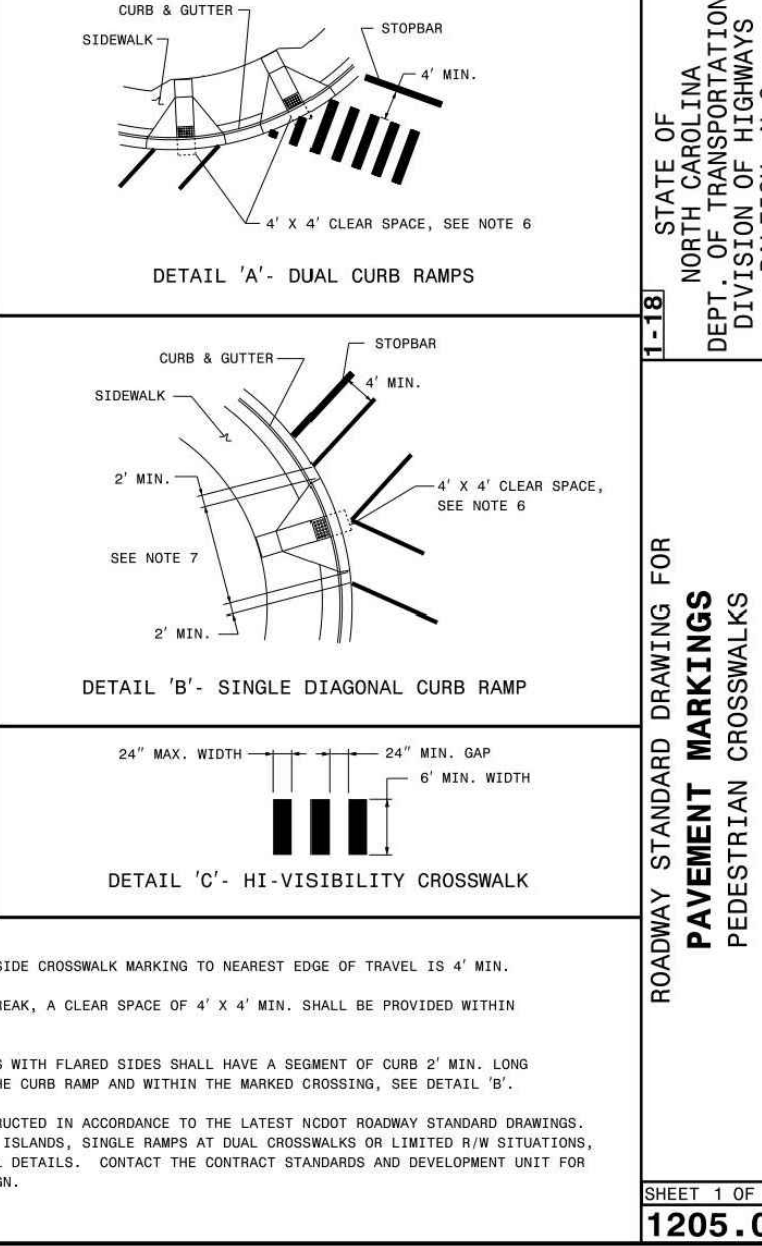
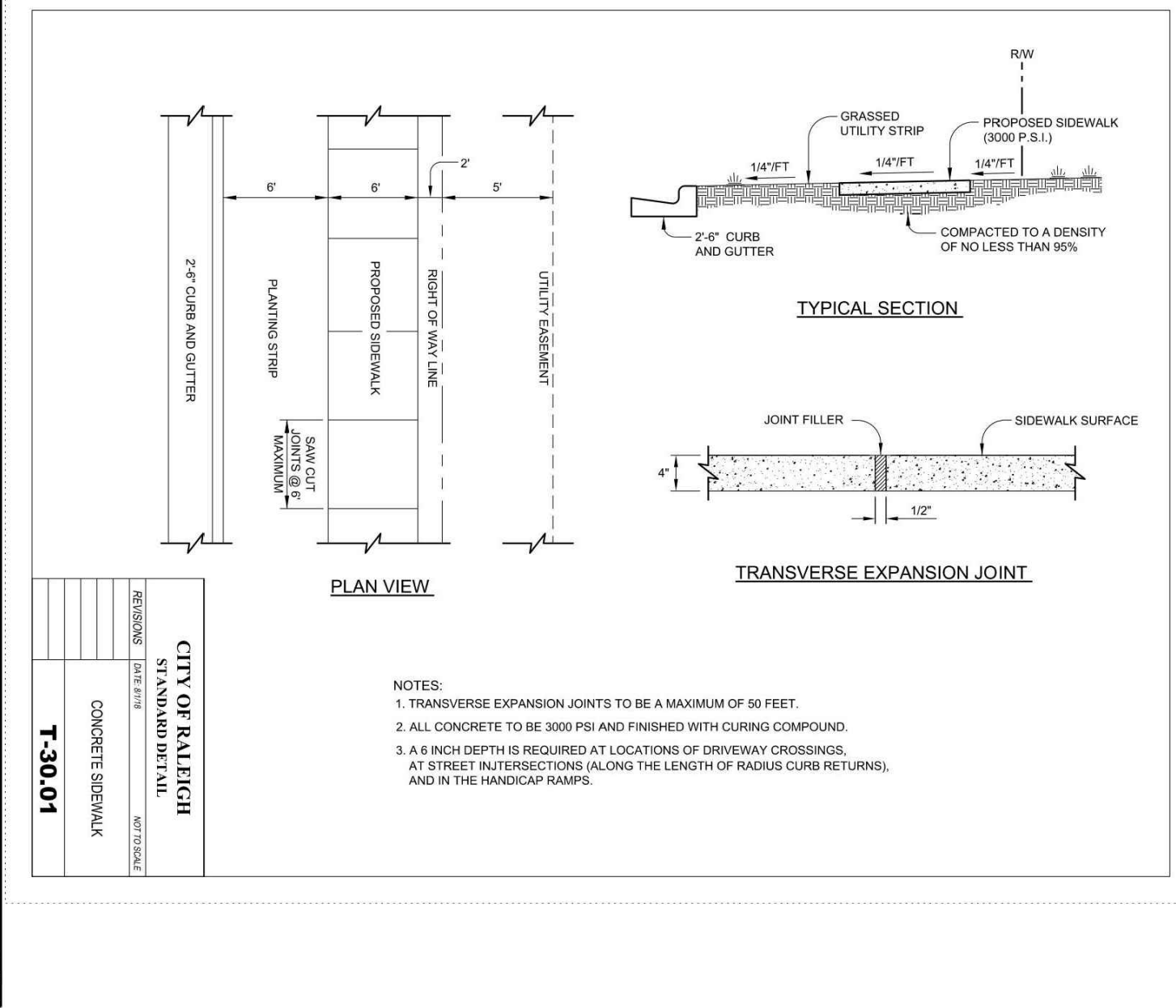
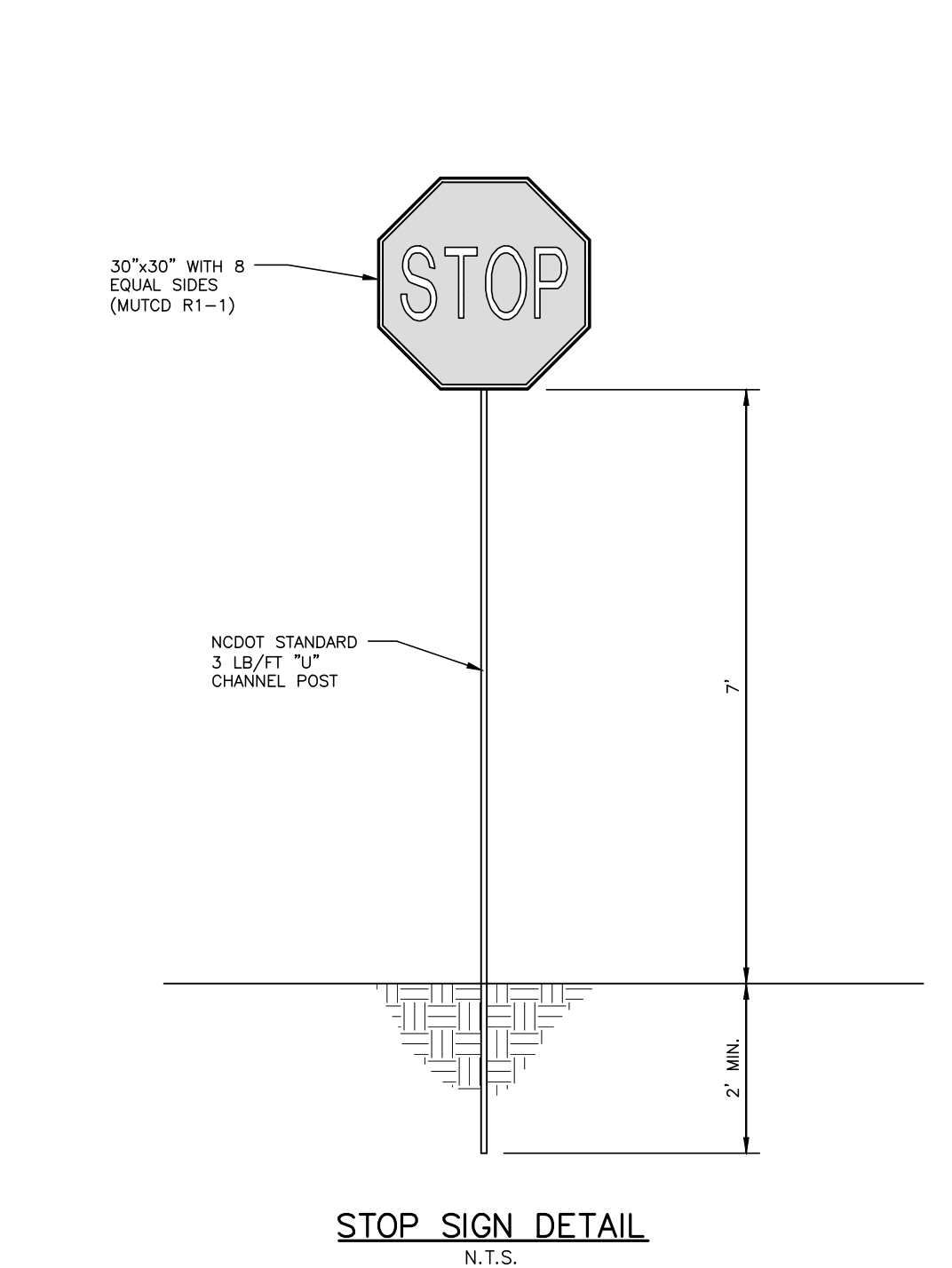
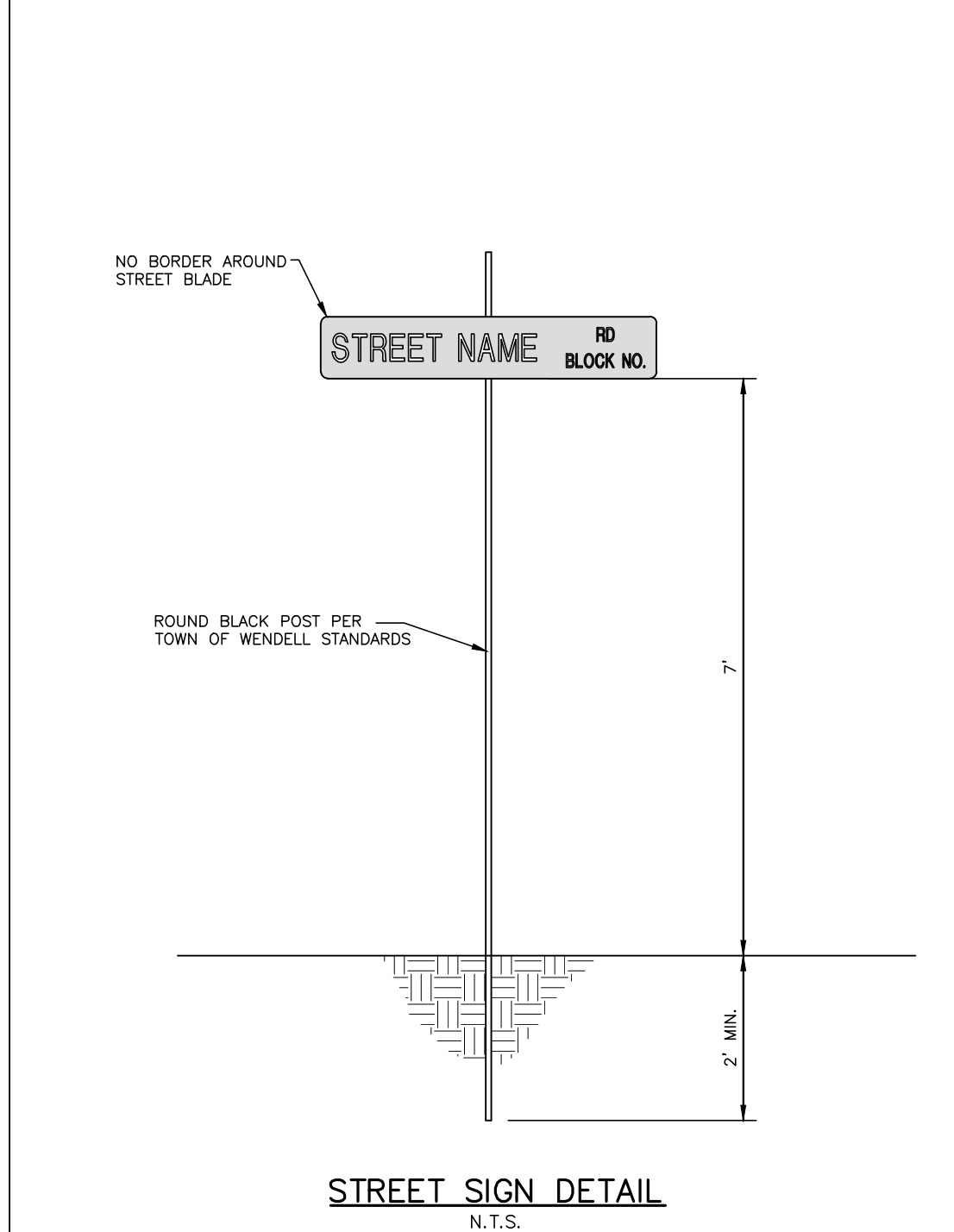
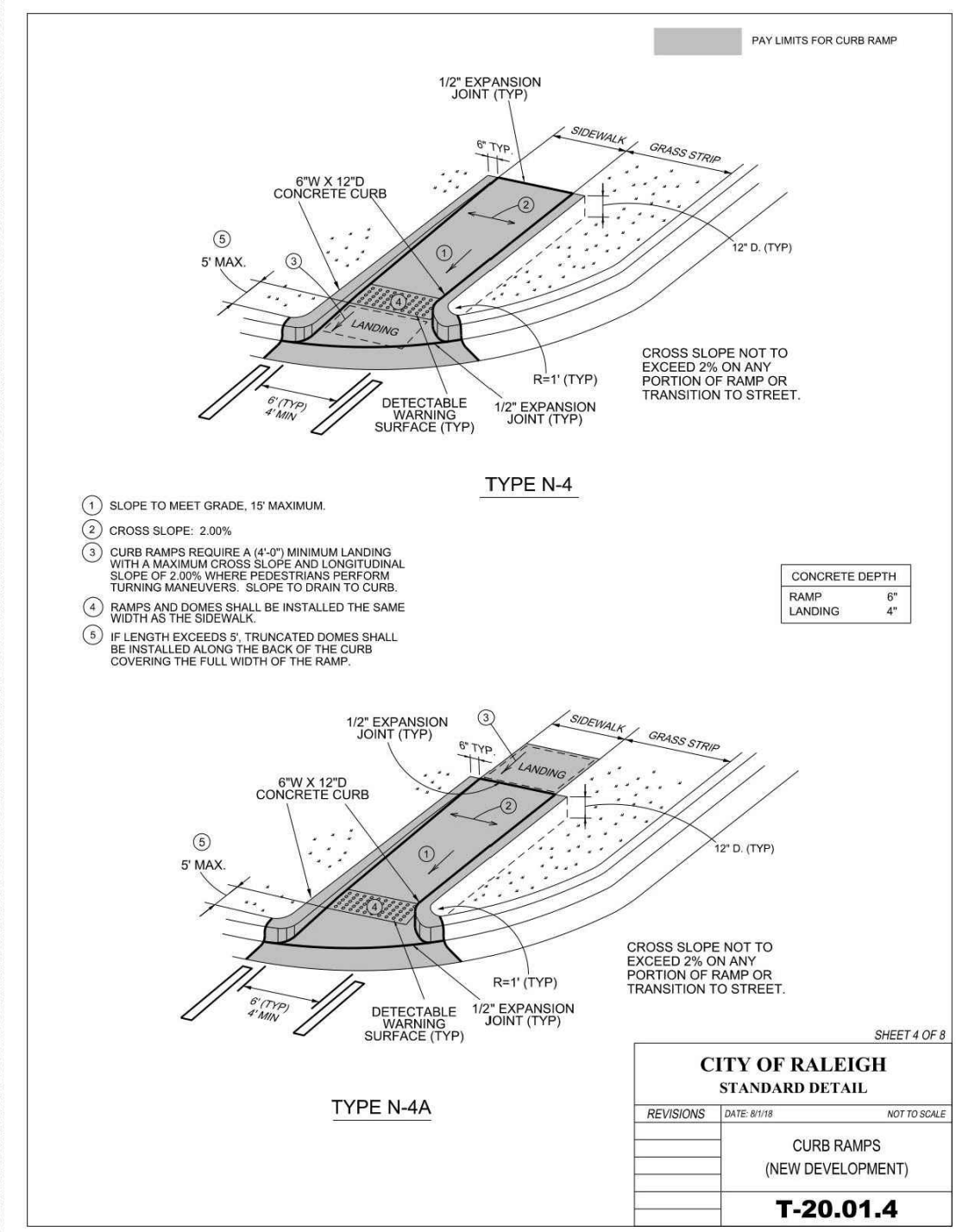
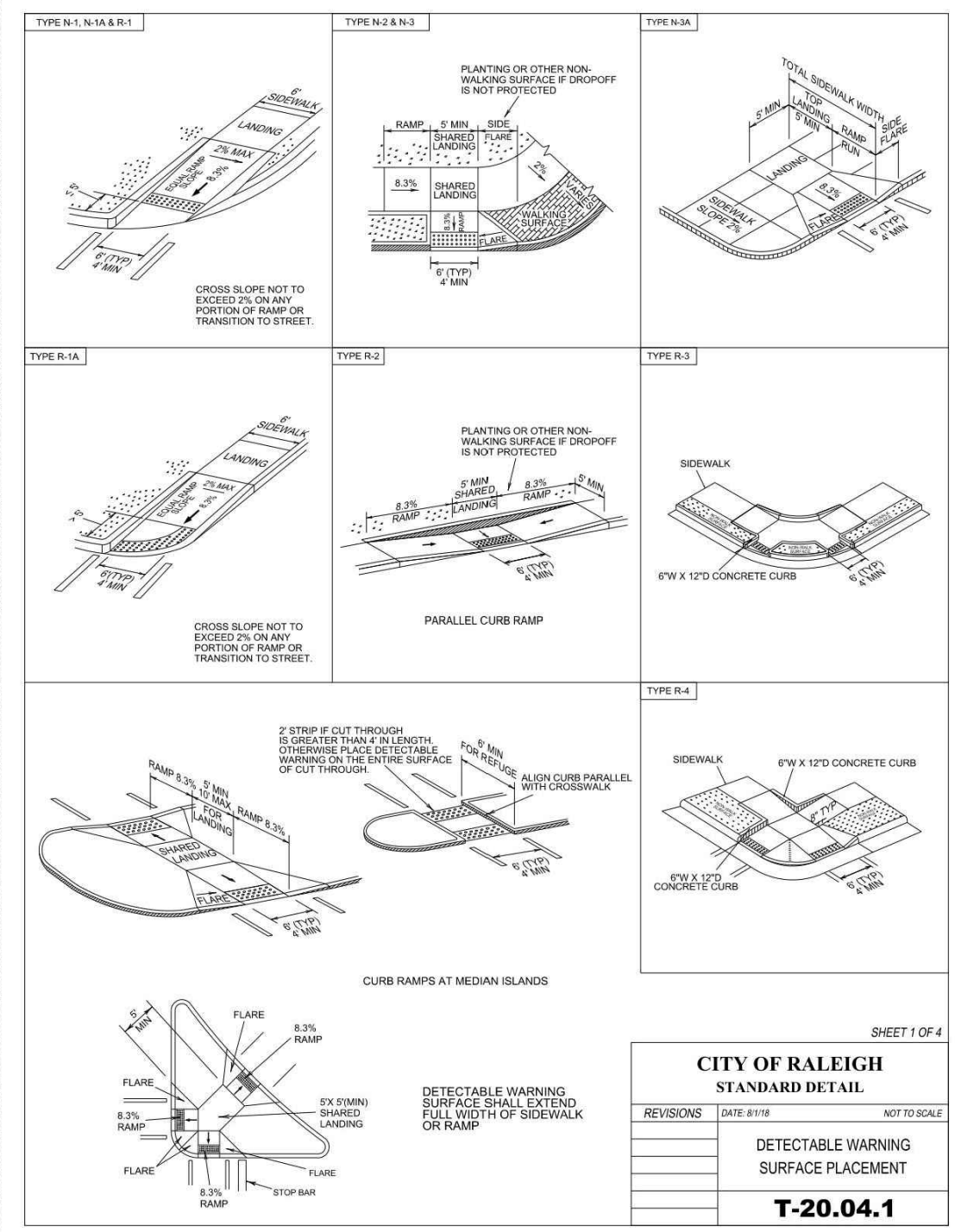
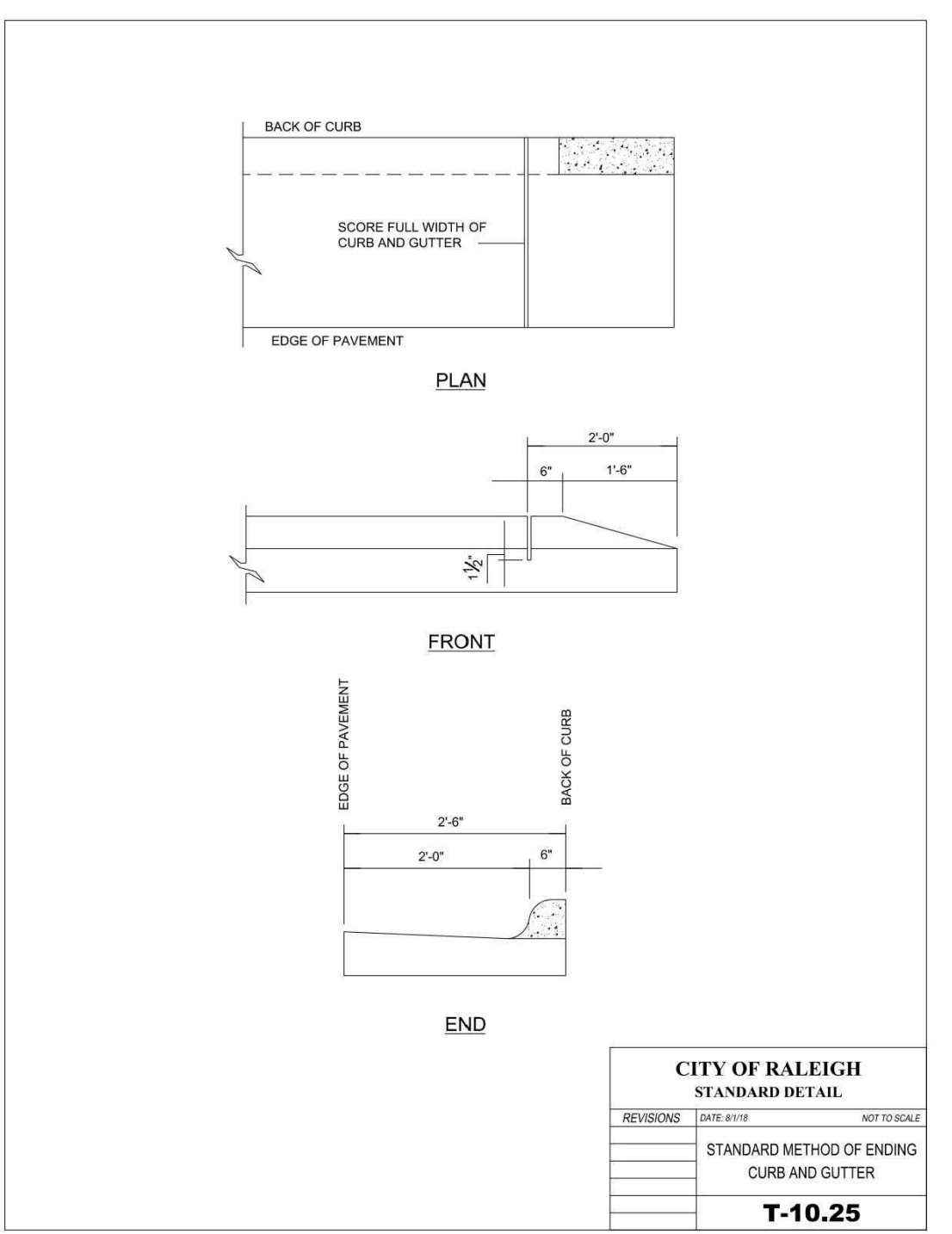
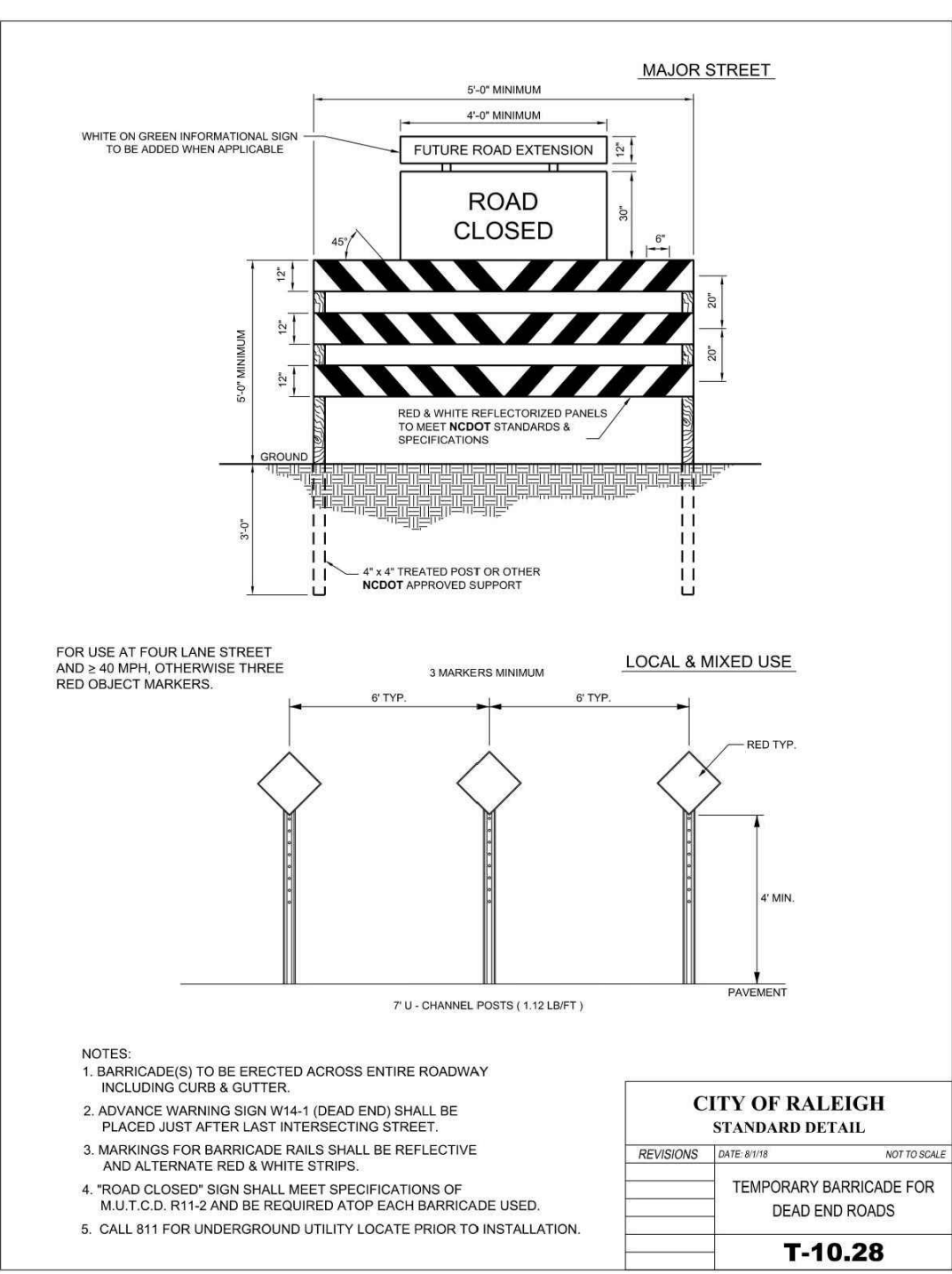
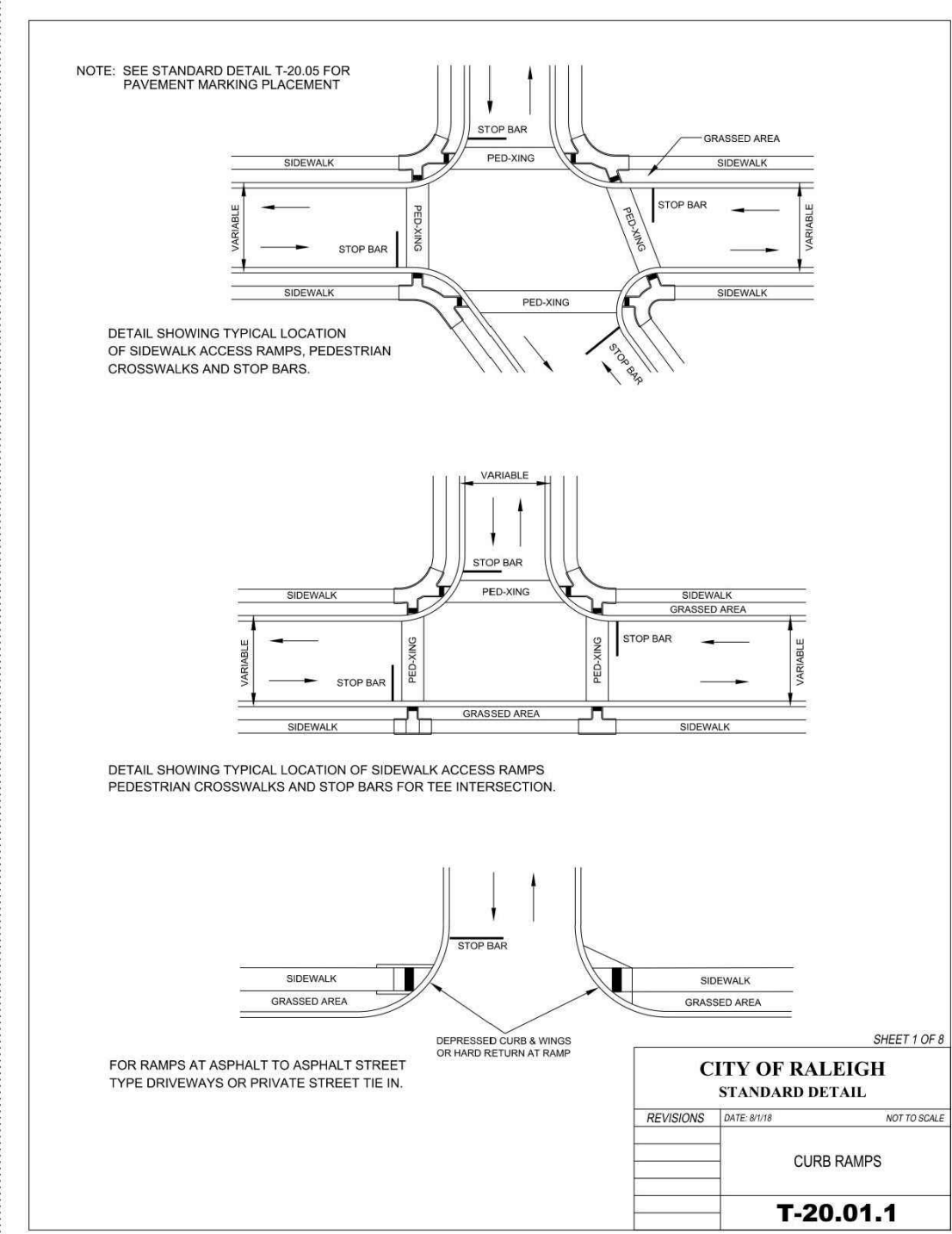
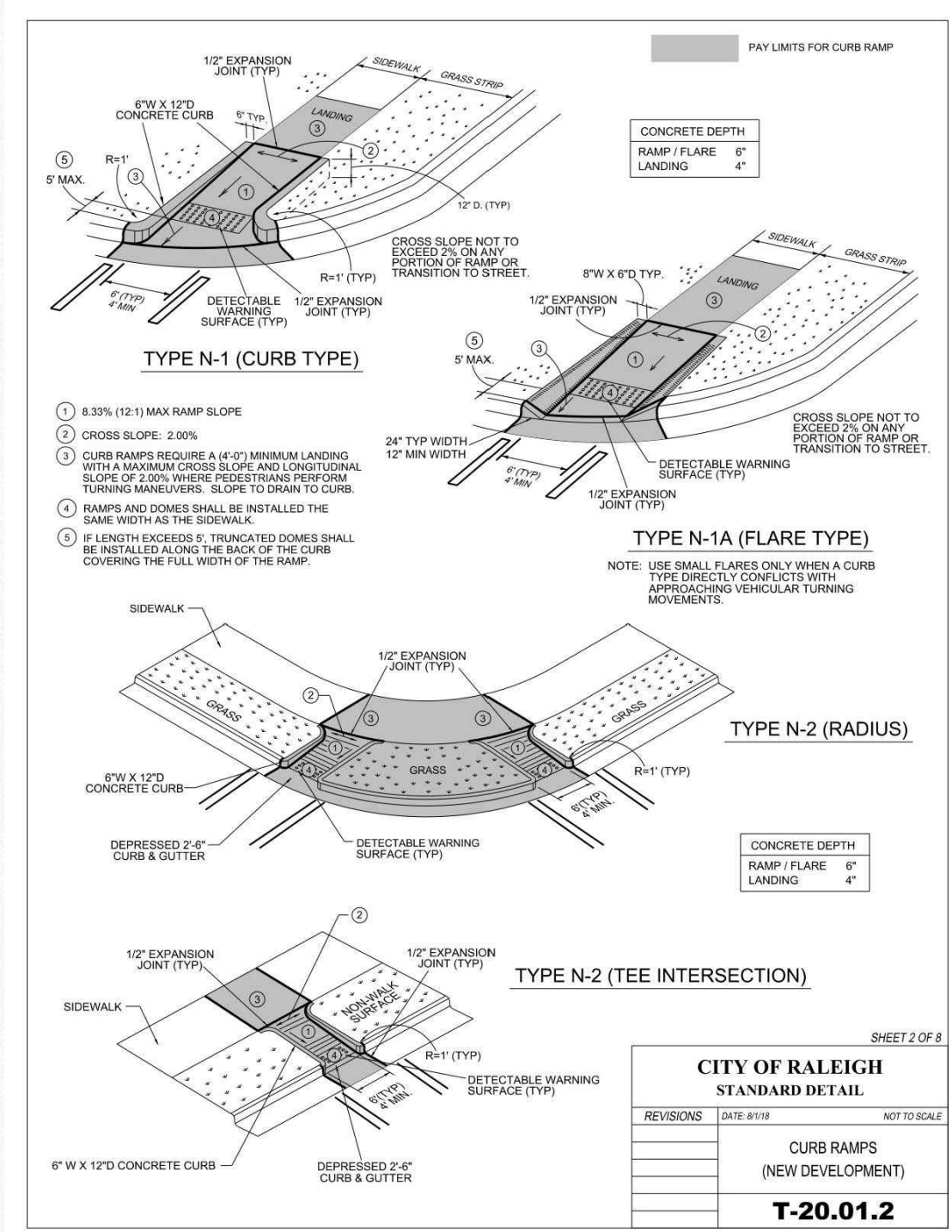
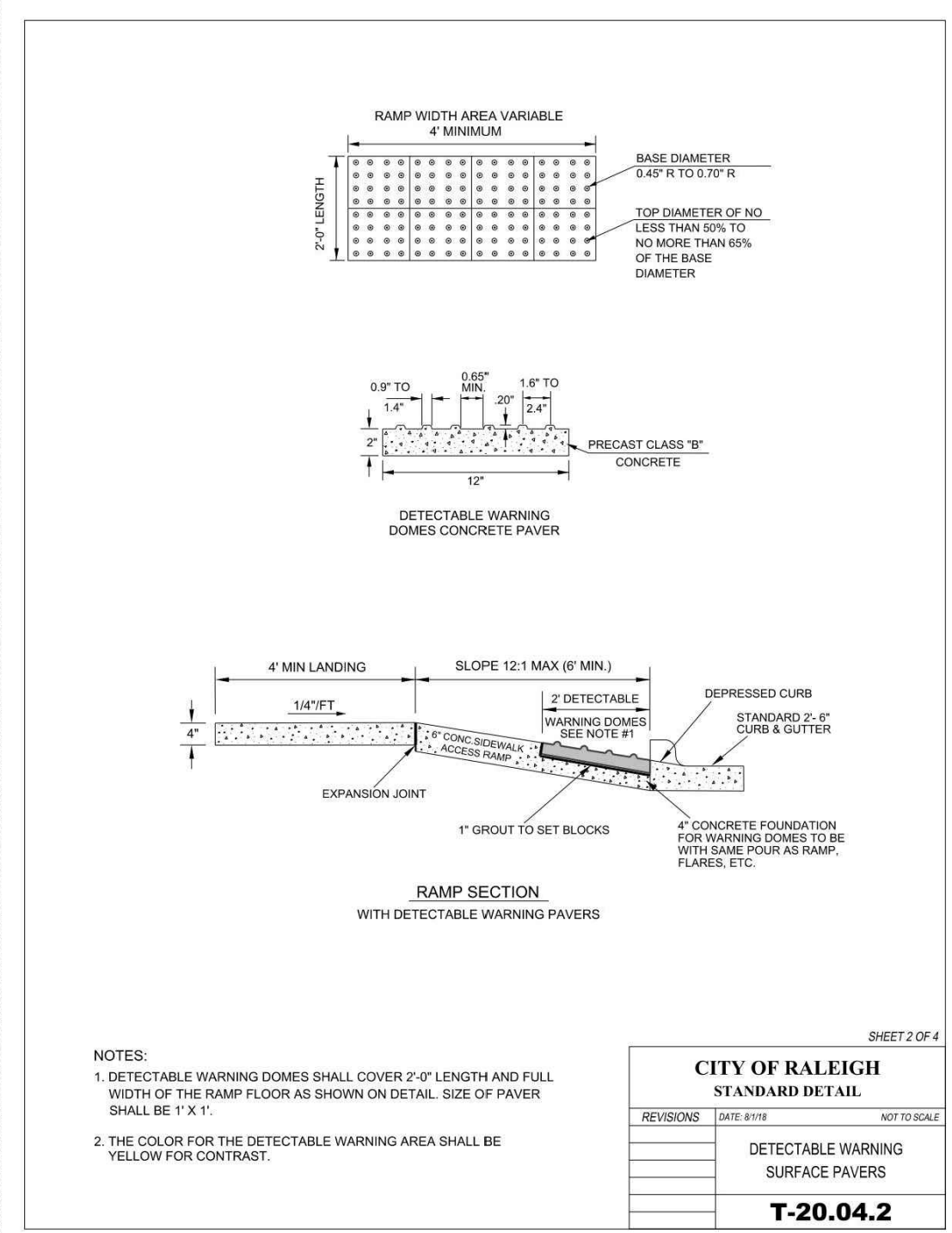
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DATE 03.21.2022

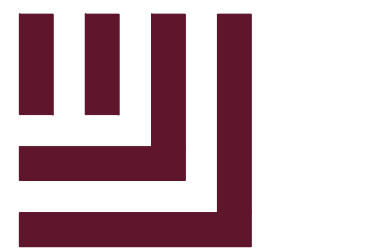
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FINAL DRAWING - RELEASED FOR CONSTRUCTION



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The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

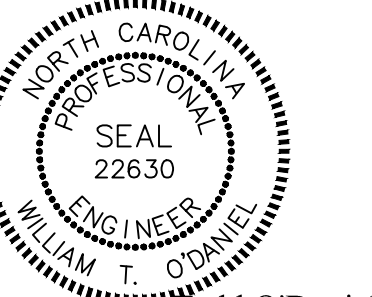
CLIENT

ASHTON WOODS RESIDENTIAL, LLC.
5711 SIX FORKS ROAD, SUITE 300
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PHONE: 919. 232. 3695
CONTACT: BOB MISHLER



ASHTON WOODS

THE POINT
PHASES 1, 2, 6 AND 9
CONSTRUCTION DRAWINGS - PACKAGE 1
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA



William W. O'Daniel
Professional Engineer
No. 22630
Todd O'Daniel
Mar 18 2022 3:39 PM

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. AWH-20000
FILENAME AWH20000-CD-PKG-01-D1
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DATE 03.21.2022

STORM DRAINAGE
DETAILS

C8.02

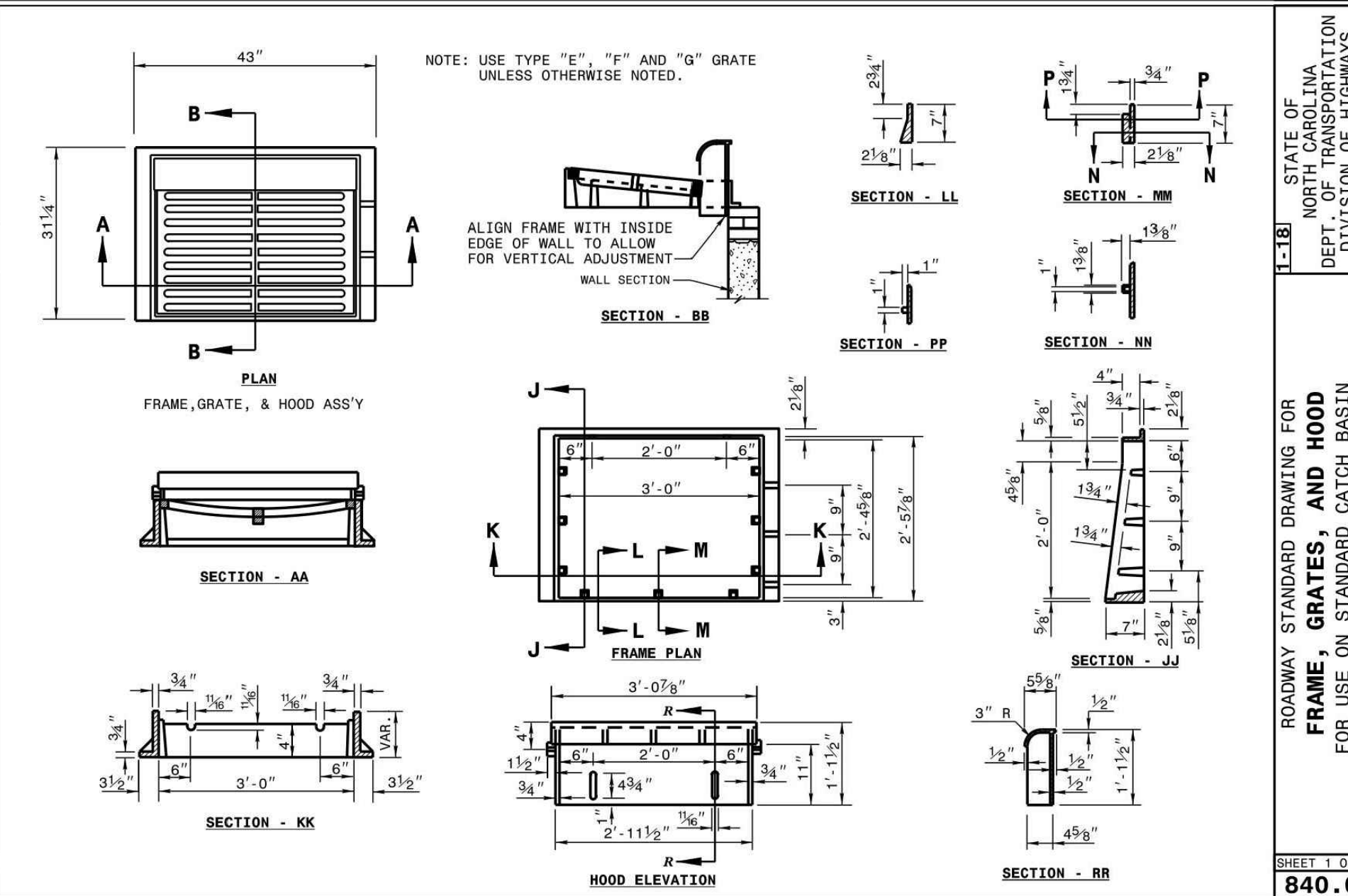
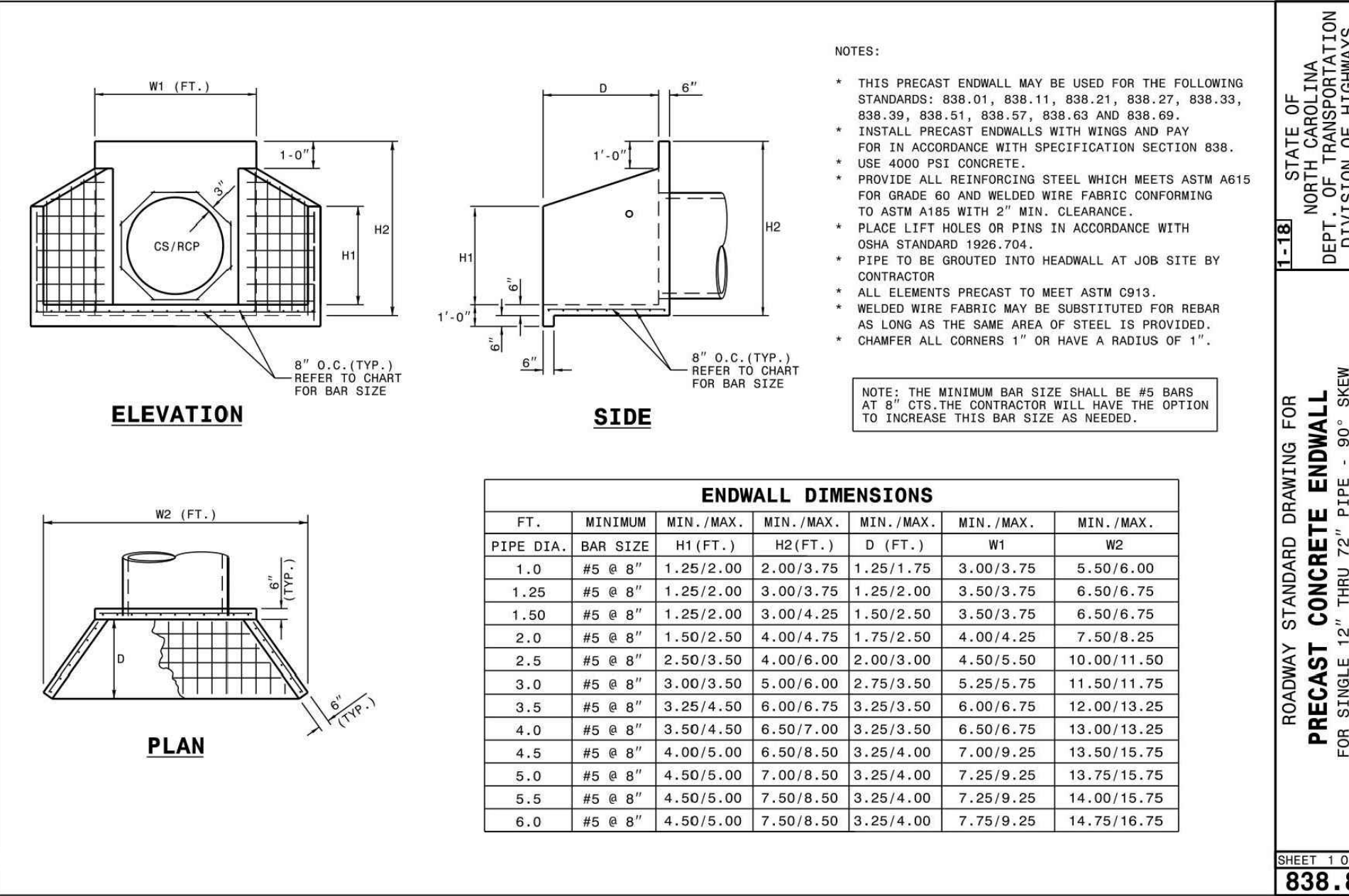
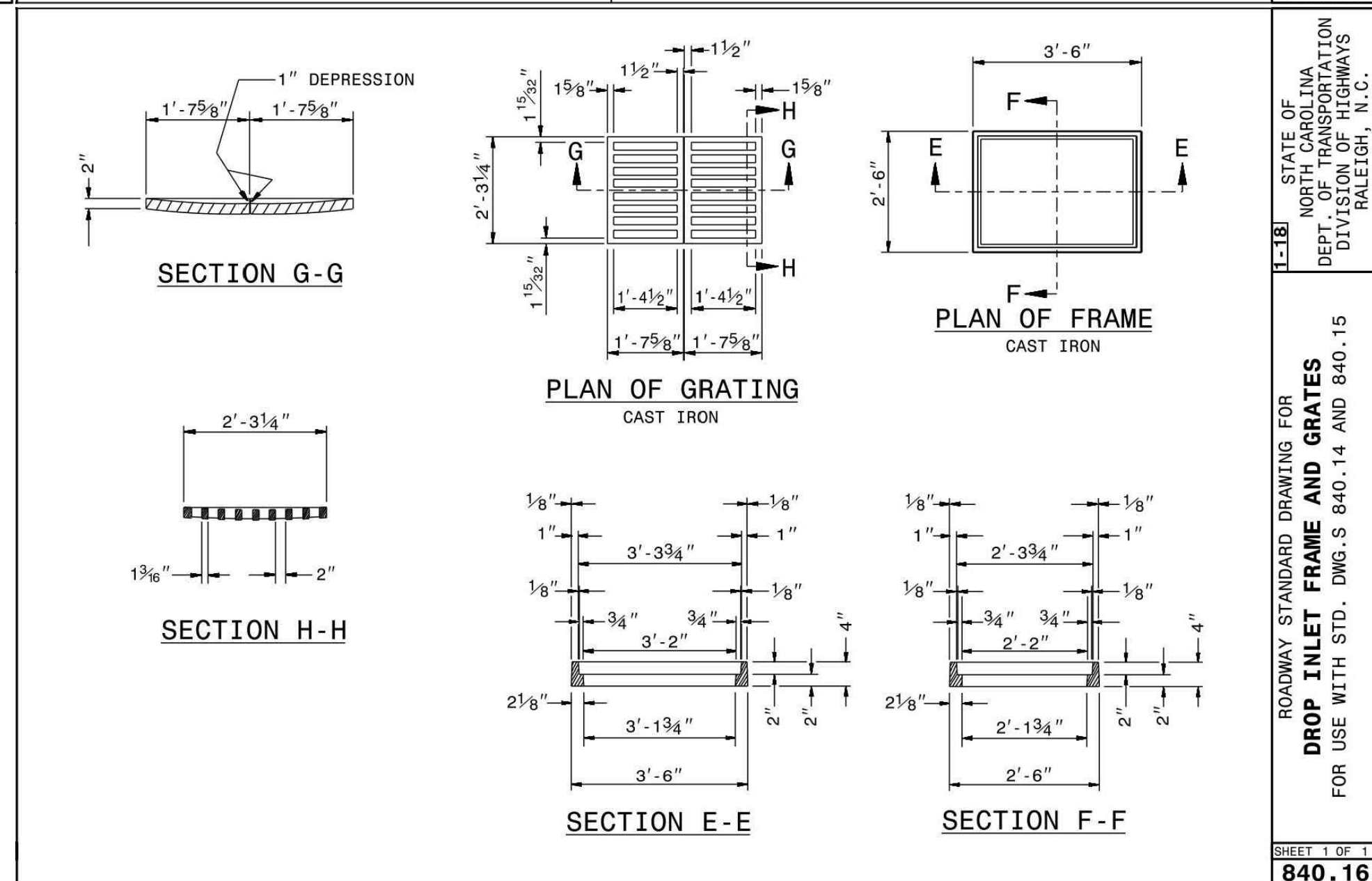
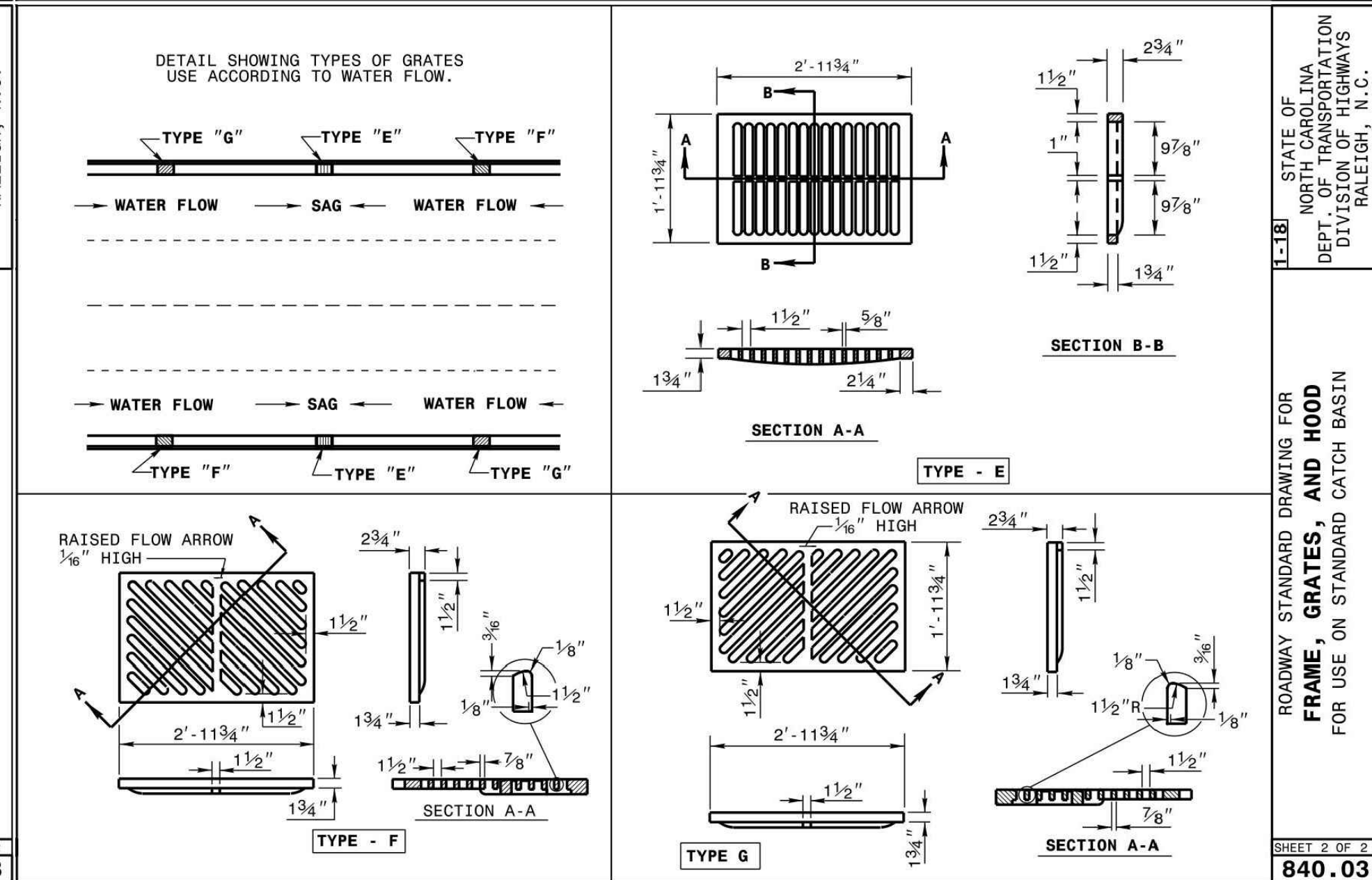
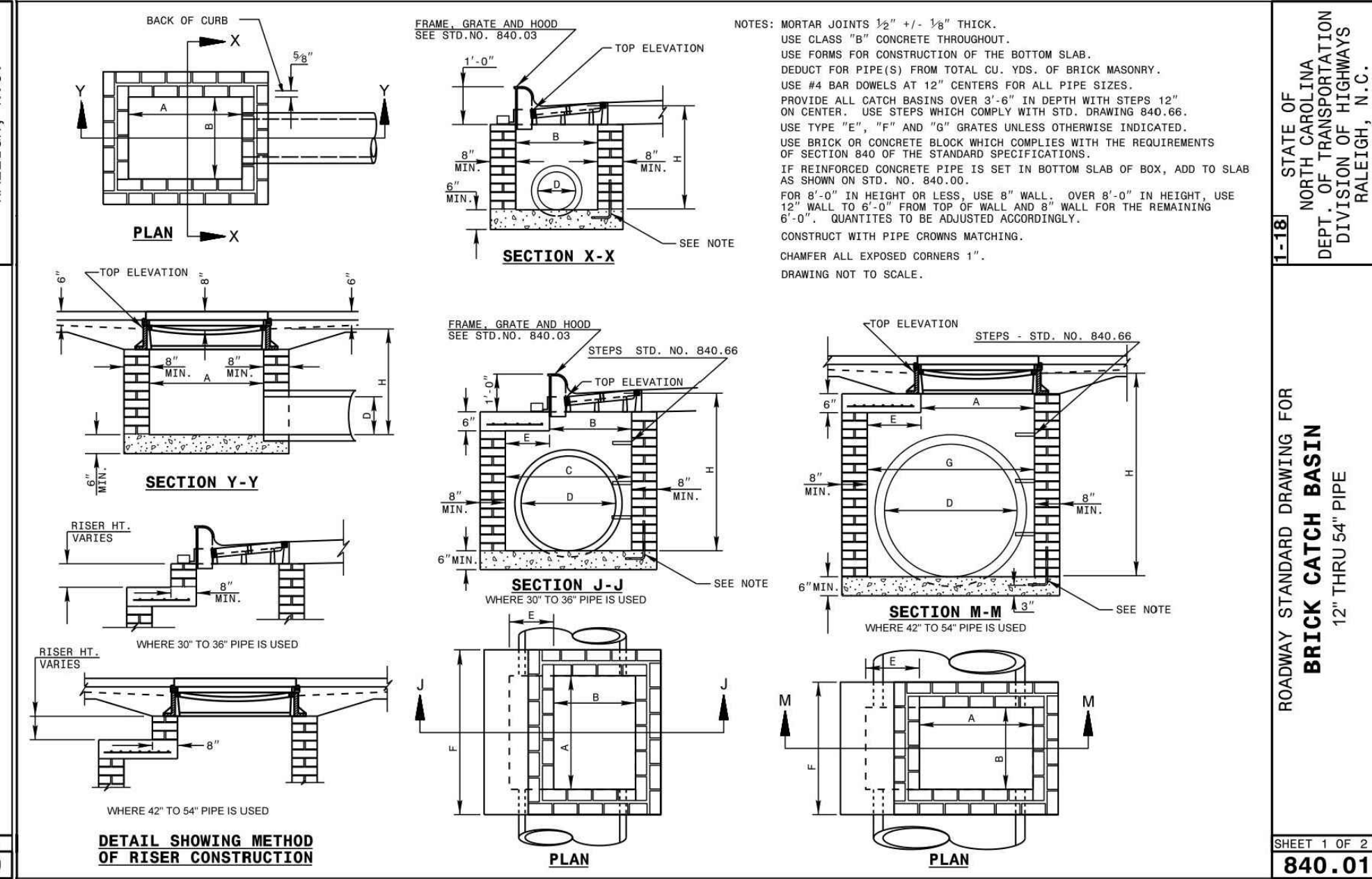
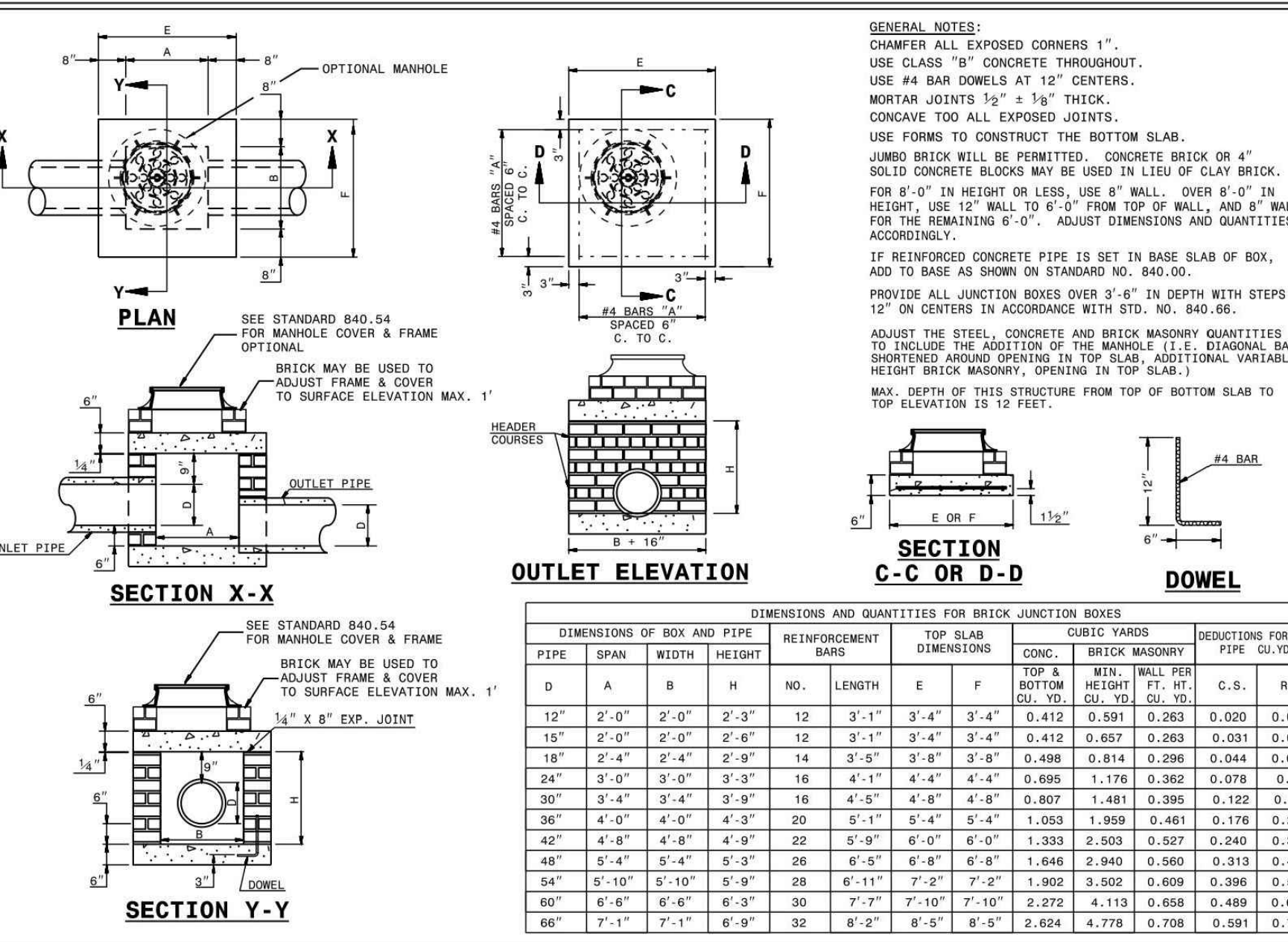
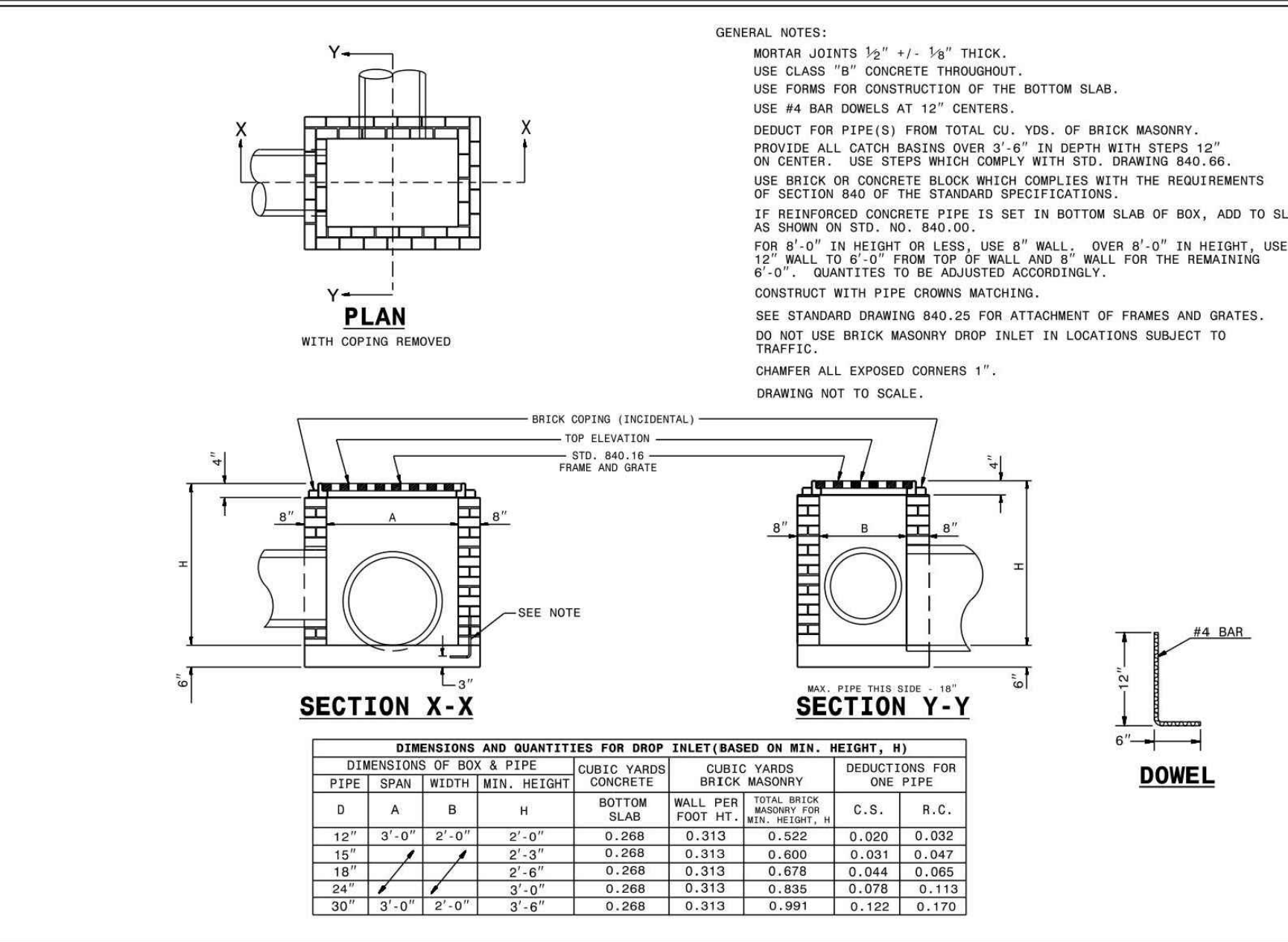
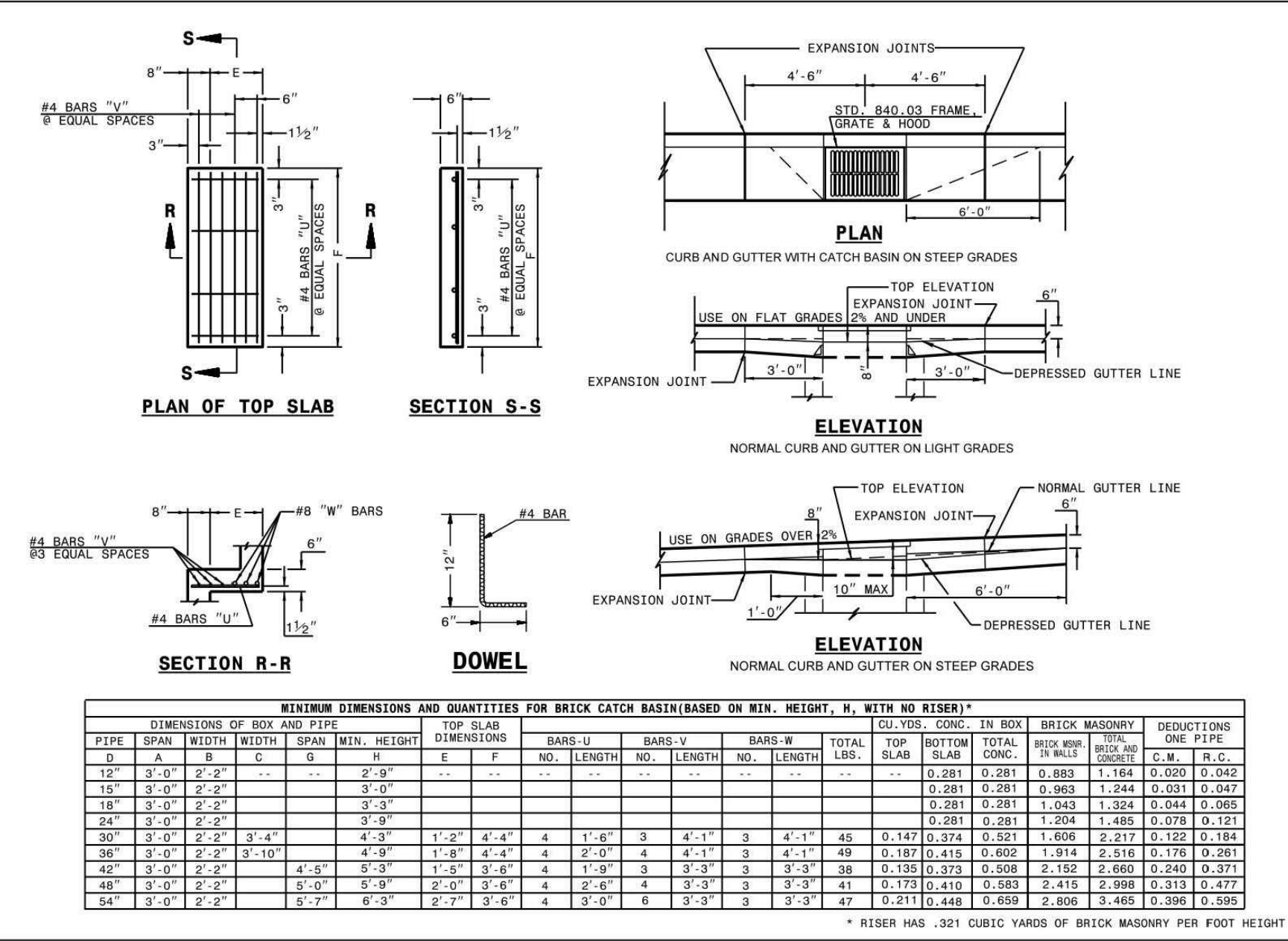
FINAL DRAWING - RELEASED FOR CONSTRUCTION

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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
BRICK CATCH BASIN
12" THRU 54" PIPE

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
BRICK JUNCTION BOX
(WITH OPTIONAL MANHOLE)
12" THRU 66" PIPE



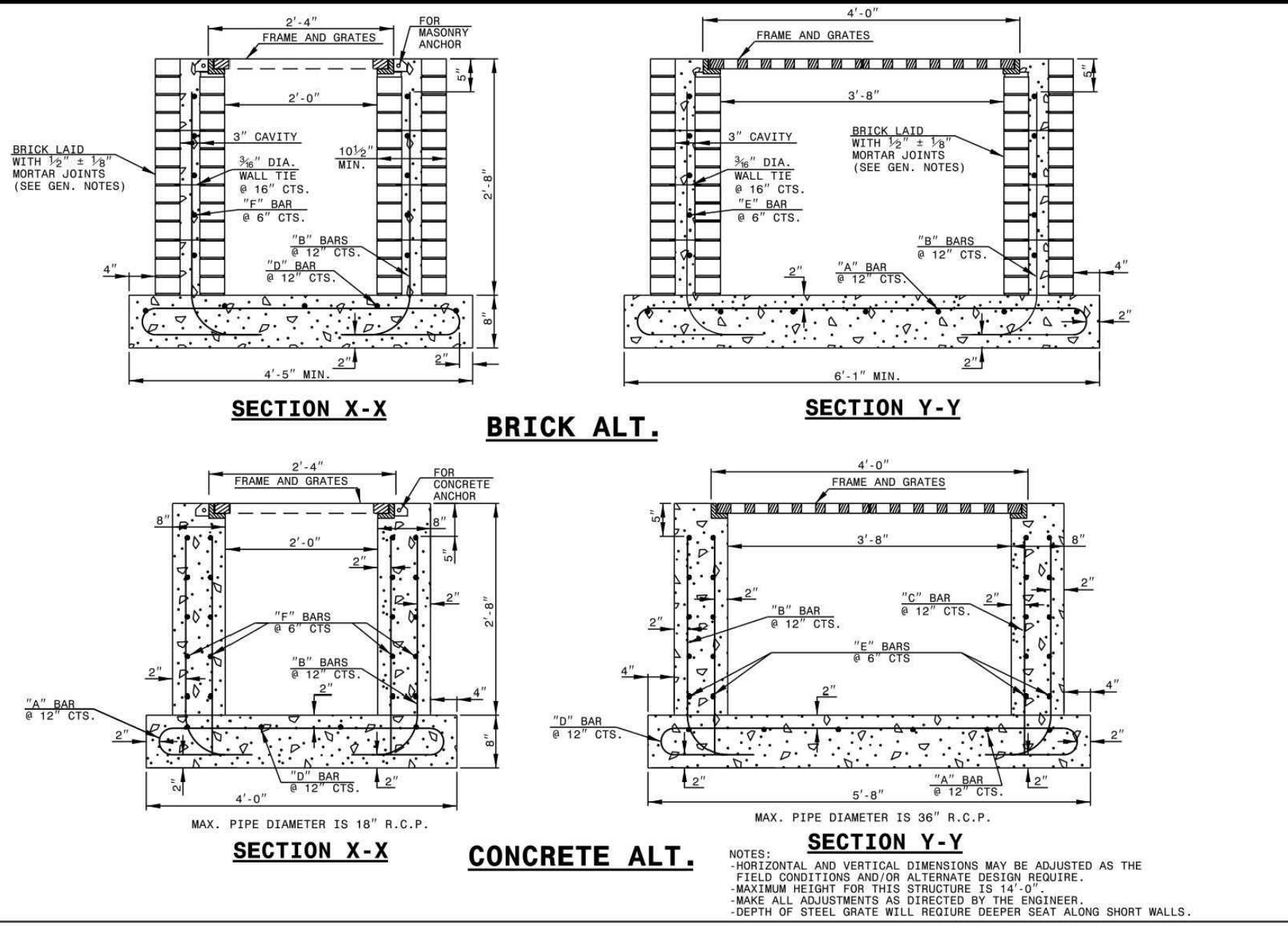
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GENERAL NOTES:
 USE STANDARD OR JUMBO BRICK FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL. INCLUDE ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL IN THE UNIT PRICE BID FOR EACH UNIT.
 INSTALL OPTIONAL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT OR BEND ALL REBAR CROSSING THIS OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE. ENCLOSE THE OPENING WITH 8" A" BARS TIED TO THE REBAR MAT AND SET SO A MINIMUM OF 3" CONCRETE COVER IS ATTAINED. REFERENCE STD. NO. 840.54 FOR MANHOLE INFORMATION.
 PROVIDE JUNCTION BOXES WITH MANHOLES OVER 3'-6" IN DEPTH WITH STEPS PLACED ON 12" CENTERS. REFERENCE STD. NO. 840.66.
 SPACE DOWEL "C" BARS AT A MAXIMUM OF 12" CENTERS. MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12".
 CONSTRUCT THE JUNCTION BOX IN ACCORDANCE WITH SECTIONS 830, 832, 834 AND 840 OF THE STANDARD SPECIFICATIONS.

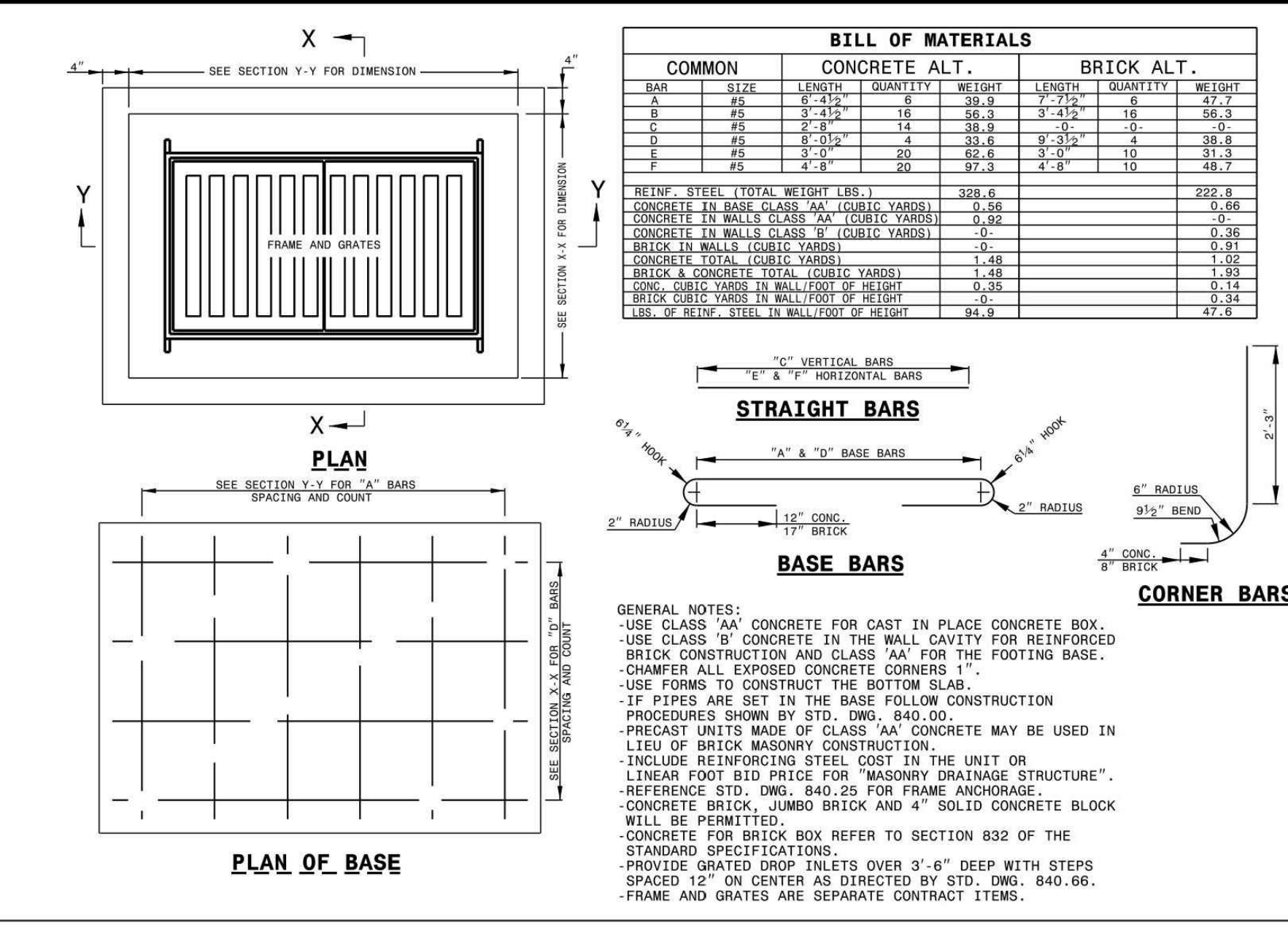
BILL OF MATERIAL

BAR	QTY.	SIZE	LENGTH	WEIGHT
A	8	#5	1'-2"	8.7
B	14	#5	0'-6"	80.3
C	26	#4	1'-0"	26.1
D	14	#5	1'-3"	101.5
STEEL TOTAL WEIGHT 217.6				
CU. YDS. CLASS "AA" CONC.	2.6			
CU. YDS. BRICK/FT. HT. (8")	0.53			
CU. YDS. BRICK/FT. HT. (12")	0.84			

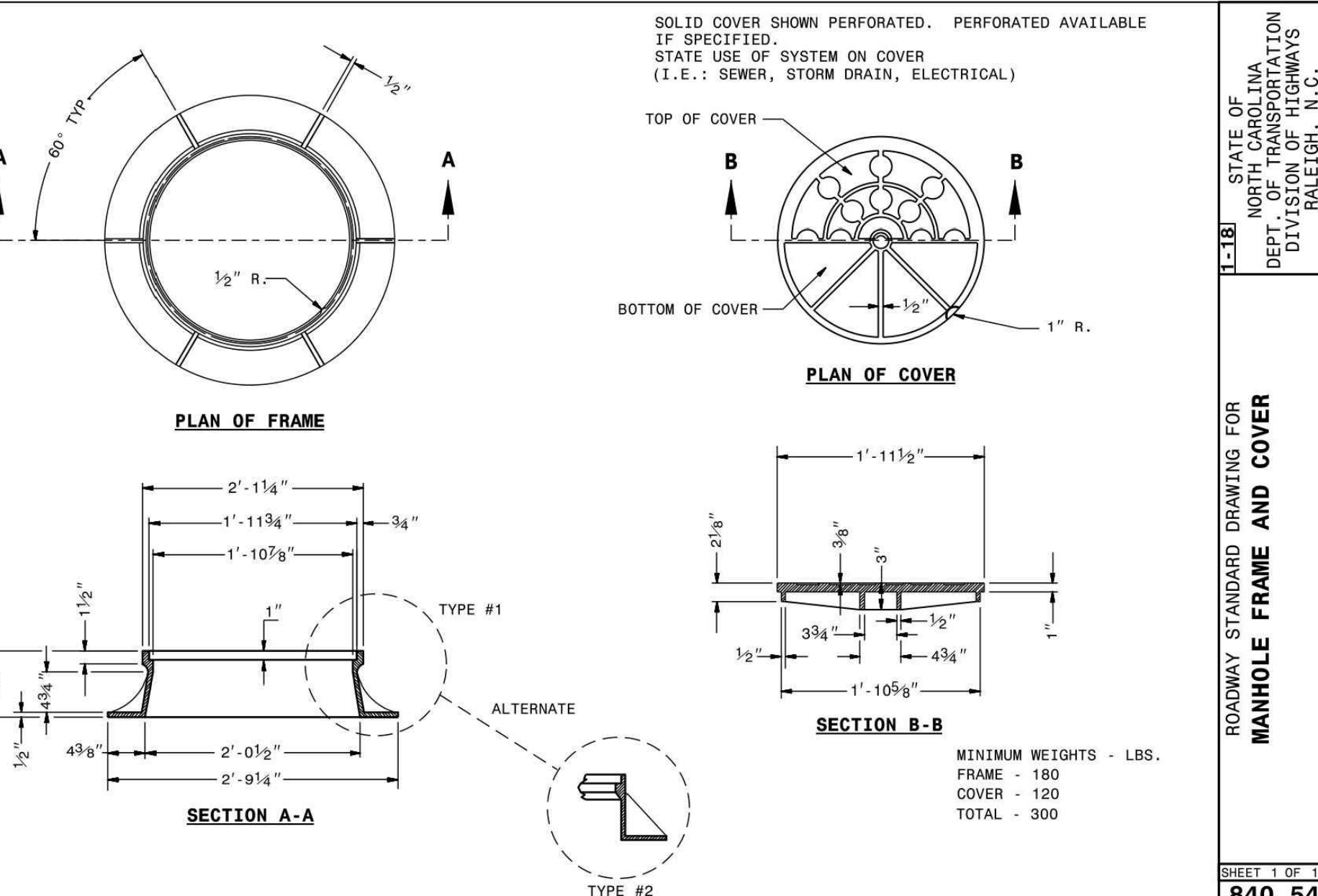
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING JUNCTION BOX
 FOR USE WITH PIPES 42" AND UNDER



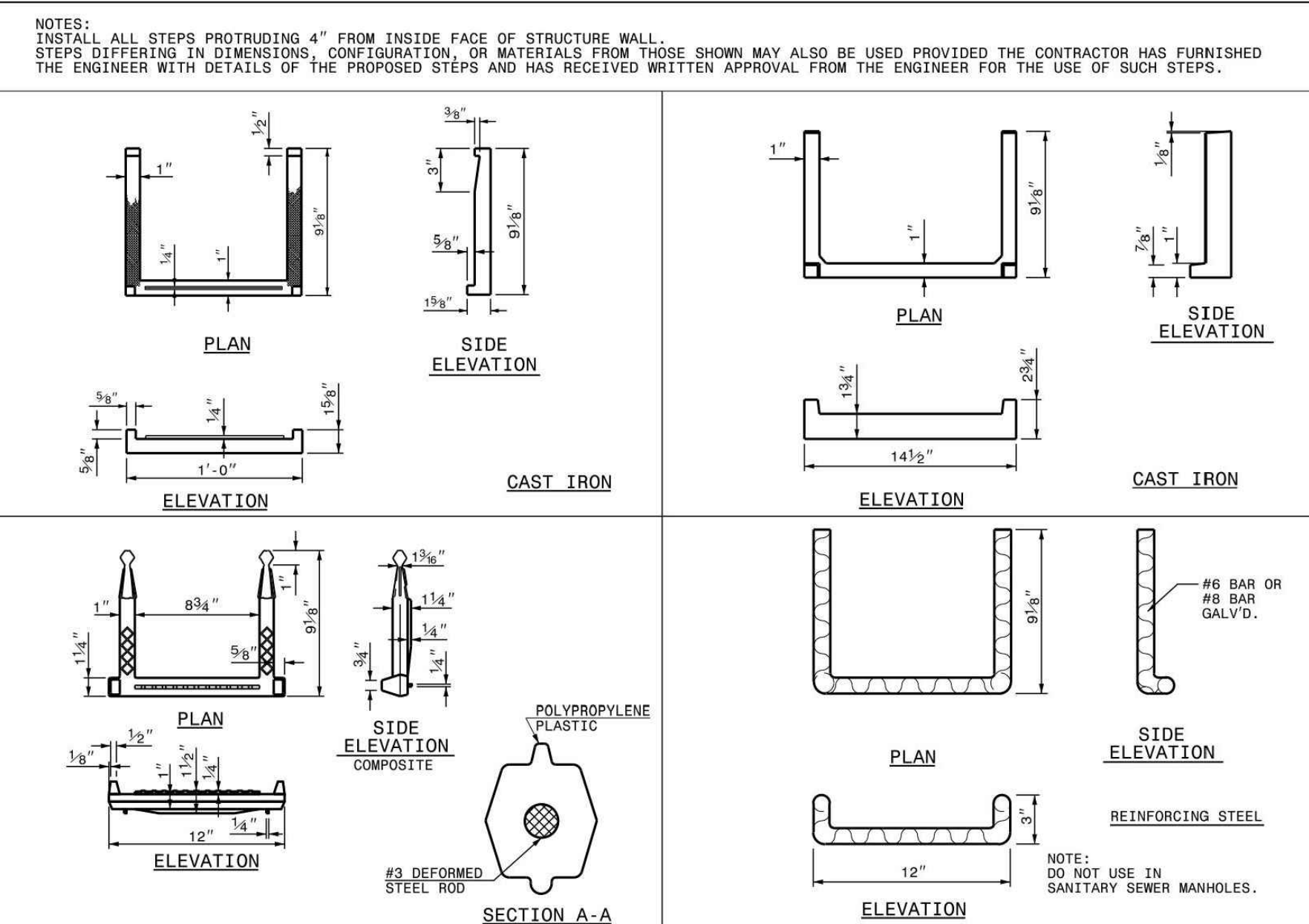
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
 FOR CAST IRON DOUBLE FRAME AND GRATES



STATE OF NORTH CAROLINA
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 ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
 FOR CAST IRON DOUBLE FRAME AND GRATES



STATE OF NORTH CAROLINA
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 DIVISION OF HIGHWAYS
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 ROADWAY STANDARD DRAWING FOR
MANHOLE FRAME AND COVER



STATE OF NORTH CAROLINA
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 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
DRAINAGE STRUCTURE STEPS

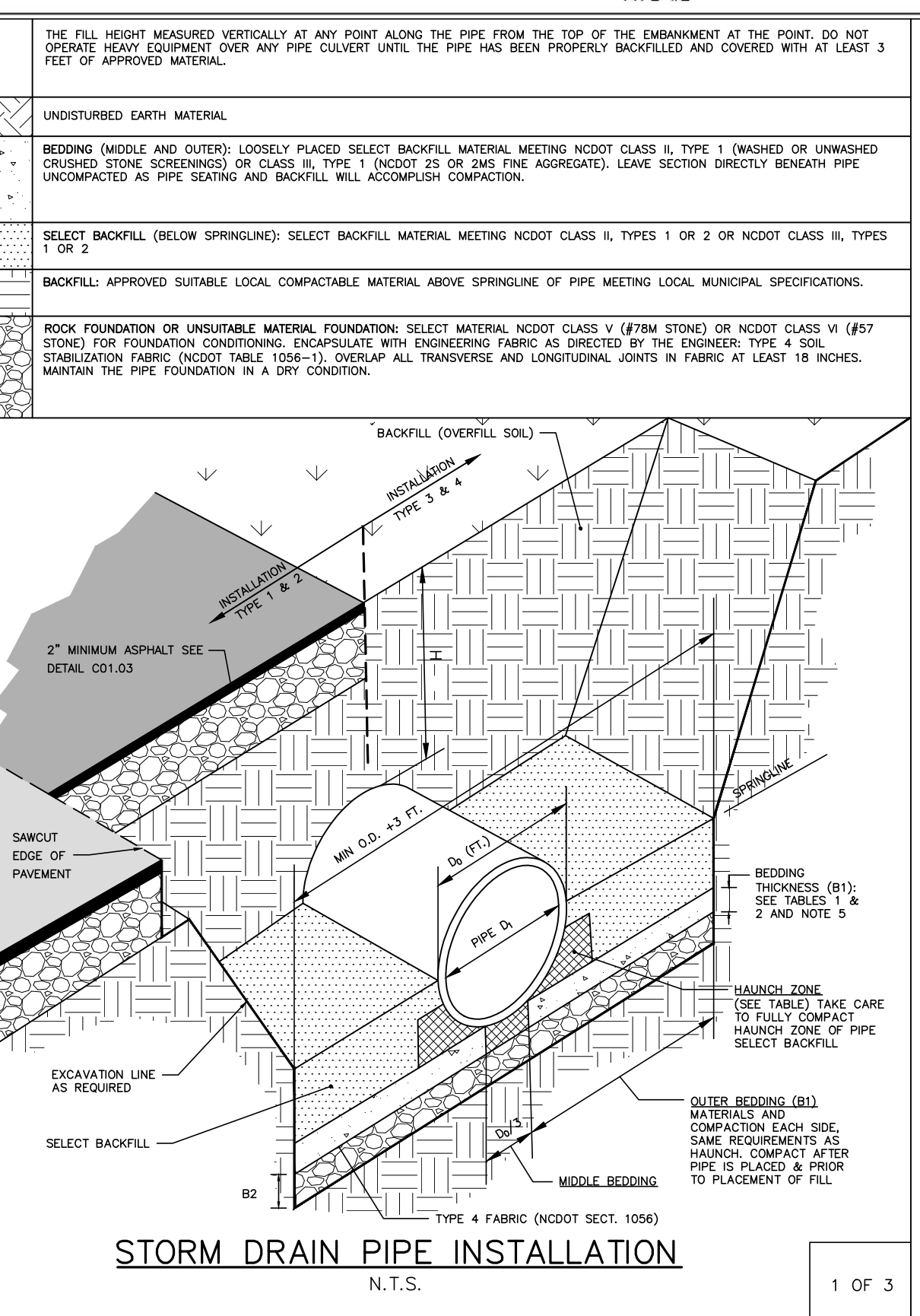


TABLE 1
 EQUIVALENT USCS¹ AND AASHTO SOIL CLASSIFICATION FOR SIDD² SOIL DESIGNATIONS

SIDD	USCS	NCDOT/AASHTO
GRAVELLY SAND (CATEGORY I)	SM, SP, GM, GP	-NCDOT CLASS III-TYPE I (CRUSHED STONE SCREENINGS), LL<30, PI≤6 -NCDOT CLASS III, TYPE I (2S OR 2MS), LL<30, PI≤6
SANDY SILT (CATEGORY II)	GM, SM, ALSO OK, SC WITH LESS THAN 20% PASSING #200 SIEVE	-NCDOT CLASS II-TYPE I (CRUSHED STONE SCREENINGS) AND CLASS II, TYPE 2 (ASHTO M145 FOR A-2-4 WITH MAX PI OF 6, A-4 W/ MAX 40% PASSING #200 SIEVE AND A MAX PI OF 6) -NCDOT CLASS II, TYPE I (2S OR 2MS) OR CLASS II, TYPE 2 (ASHTO M145 FOR SOIL CLASSIFICATION A-1 OR A-3)
SILT CLAY (CATEGORY III)	CL, MH, CH, SC	AS, A6

¹ UNIFIED SOIL CLASSIFICATION SYSTEM
² STANDARD INSTALLATIONS DIRECT DESIGN

TABLE 2
 STANDARD INSTALLATIONS SOILS AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	OUTER BEDDING (B1) (% COMPACTION/CATEGORY)	HAUNCH ZONE & SELECT BACKFILL AREA (% COMPACTION/CATEGORY)	LOCATION
TYPE 1	B1 = 3/8" (8" MIN) FOUNDATION OF OVER UNSATURABLE FOUNDATION, 7" (7" OF 1/2" MIN/24" MAX	90% CATEGORY I	90% CATEGORY I 90% CATEGORY II	PAVED AREAS WITH 2" OR LESS BURY
TYPE 2	B1 = 3/8" (8" MIN) FOUNDATION OF OVER UNSATURABLE FOUNDATION, 7" (7" OF 1/2" MIN/24" MAX	90% CATEGORY I	85% CATEGORY I 90% CATEGORY II	PAVED AREAS WITH GREATER THAN 2" OF BURY
TYPE 3	B1 = 3/8" (8" MIN) FOUNDATION OF OVER UNSATURABLE FOUNDATION, 7" (7" OF 1/2" MIN/24" MAX	80% CATEGORY I 90% CATEGORY II	80% CATEGORY I 90% CATEGORY II OR 95% CATEGORY III	IN 8" W/ OUTSIDE OF PAVEMENT
TYPE 4	B1 = 3/8" (8" MIN) FOUNDATION OF OVER UNSATURABLE FOUNDATION, 7" (7" OF 1/2" MIN/24" MAX	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 80% CATEGORY II	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 80% CATEGORY II	NATURAL AREAS

NOTES:
 1. COMPACTION AND SOIL SYMBOLS - I.E. "95% CATEGORY I" - REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%.
 2. SOIL IN THE OUTER BEDDING, HAUNCH AND LOWER SIDE ZONES, EXCEPT UNDER THE MIDDLE 1/3 OF THE PIPE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL (BACKFILL) ZONE.
 3. FOR TRENCHES, THE TOP ELEVATION SHALL BE NO LOWER THAN 0.1H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1'-FOOT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
 4. FOR TRENCHES, THE WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
 5. COMPACT OUTER BEDDING AFTER PIPE IS PLACED AND PRIOR TO PLACEMENT OF SELECT FILL. MIDDLE BEDDING IS UNCOMPACTED.
 6. OVERFILL (BACKFILL) SOILS TO BE PLACED PER STANDARD SPECIFICATION 02700 STORM DRAINAGE FOR THE APPLICABLE BACKFILL TYPE AND BURY LIMITATIONS.
 7. THESE TWO TABLES WERE MODIFIED TO GENERALLY CONFORM TO THE NCDOT STANDARDS AS SHOWN IN DETAIL 300.01 RIGID PIPE IN TRENCH CONDITION.

REFERENCE SOURCES:
 1. AMERICAN CONCRETE PIPE ASSOCIATION DESIGN STANDARDS
 2. 2012 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND NCDOT STANDARD DETAILS 300.01 FOR RIGID PIPE, TRENCH CONDITIONS.

FILL HEIGHT TABLE 9

INSIDE PIPE DIAMETER DI (INCHES)	TYPE 3 (BEDDING) INSTALLATION (0.01 INCH CRACK)		TYPE 4 (BEDDING) INSTALLATION (0.01 INCH CRACK)	
	CLASS III PIPE MAXIMUM BURY H (FEET)	CLASS IV PIPE MAXIMUM BURY H (FEET)	CLASS III PIPE MAXIMUM BURY H (FEET)	CLASS IV PIPE MAXIMUM BURY H (FEET)
15	2 MIN, 12 MAX	1 MIN, 20 MAX	3 MIN, 7 MAX	2 MIN, 12 MAX
18	2 MIN, 12 MAX	1 MIN, 20 MAX	3 MIN, 7 MAX	1 MIN, 13 MAX
24	1 MIN, 12 MAX	1 MIN, 20 MAX	2 MIN, 8 MAX	1 MIN, 13 MAX
30	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
36	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
42	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
48	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
54	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
60	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
72	1 MIN, 11 MAX	1 MIN, 19 MAX	1 MIN, 7 MAX	1 MIN, 13 MAX

FILL HEIGHT TABLE BASE ON:
 1. Ys = 120 PCF (BACKFILL LOAD)
 2. AASHTO HL-10 LIVE LOAD
 3. POSITIVE PROJECTING EMBANKMENT CONDITION (THIS GIVES CONSERVATIVE RESULTS IN COMPARISON TO TRENCH CONDITIONS)
 4. PIPE = REINFORCED CONCRETE PIPE MEETING ASTM C76 (ASHTO M170), WALL C THICKNESS
 5. CONCRETE PIPE SHOULD BE INSTALLED IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS SECTION 27 OR ASTM C1479.

⁹ FILL HEIGHT TABLES, THE PORTION EXCEPTED HERE, WAS DEVELOPED BY THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA) USING THE INDIRECT DESIGN METHOD IN ACCORDANCE WITH SECTION 12.10.4.3 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 4TH, 2007 WITH 2008 INTERIM.

NOTES:
 1. GREATER BURY DEPTHS THAN THOSE SHOWN ABOVE ARE ACHIEVABLE BY EITHER USING TYPE 1 OR 2 INSTALLATION, USING CLASS V PIPE, CONTROLLING BACKFILL TYPE, CALCULATING DEPTH USING A TRENCH CONDITION, OR BY SPECIAL DESIGN. SEE ALSO DESIGN DATA 9 PUBLISHED BY THE ACPA FOR DESIGN METHODOLOGY.
 2. IN CONJUNCTION WITH CALCULATING BURY DEPTH FOR OTHER CONDITIONS, FIRST SEE "LRFD FILL HEIGHT TABLES FOR CONCRETE PIPE", LAST REVISED JULY 2009 OR LATER, PREPARED BY THE ACPA FOR OTHER BURY DEPTH POSSIBILITIES.

STORM DRAIN PIPE INSTALLATION
 N.T.S.
 1 OF 3

STORM DRAIN PIPE INSTALLATION
 2 OF 3

STORM DRAIN PIPE INSTALLATION
 3 OF 3

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ASHTON WOODS

THE POINT
PHASES 1, 2, 6 AND 9
 CONSTRUCTION DRAWINGS - PACKAGE 1
 EAST YOUNG STREET
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
 WAKE COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630
 WILLIAM T. O'DANIEL
 Todd O'Daniel
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REVISIONS

NO.	DATE

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