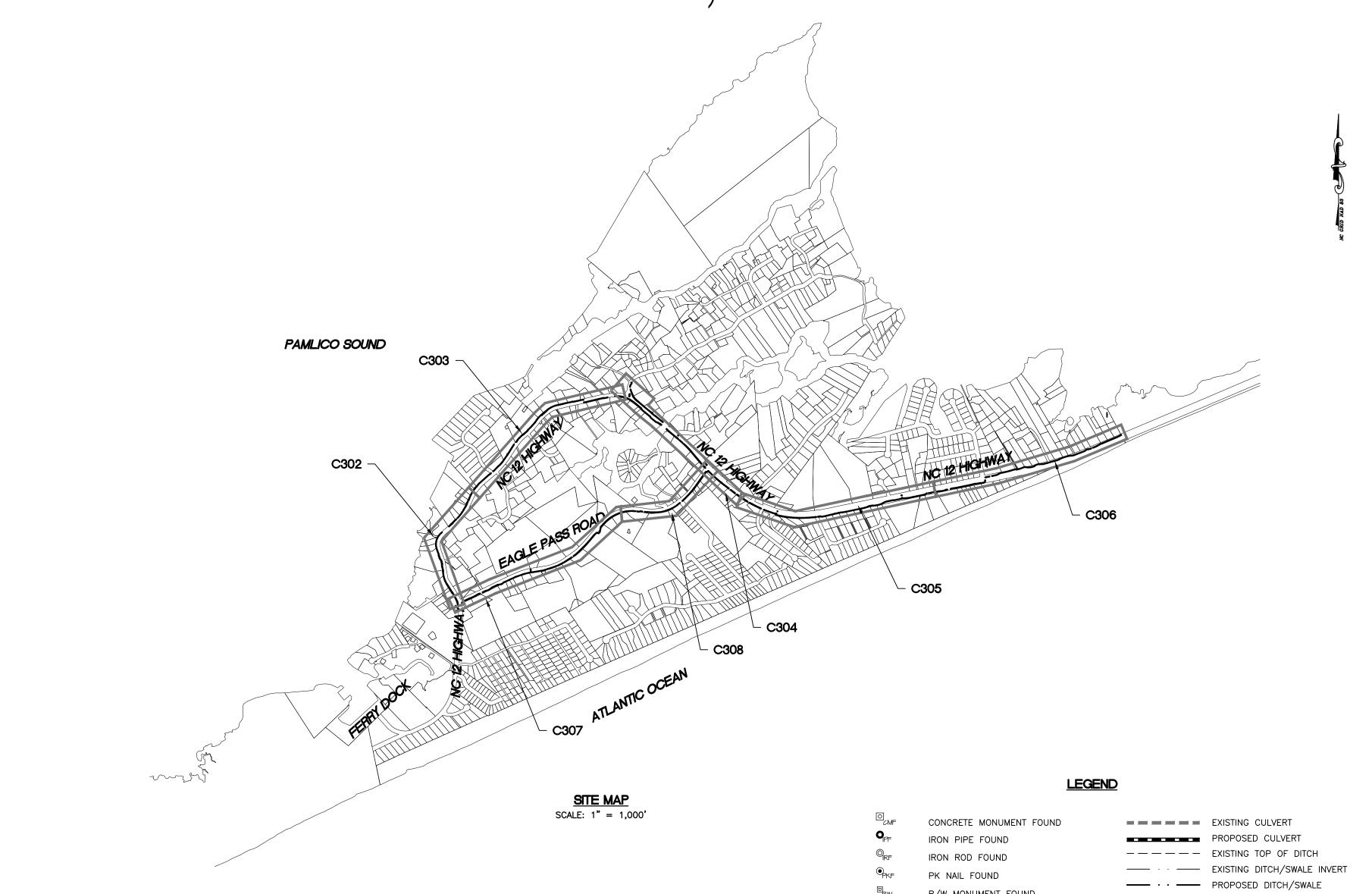
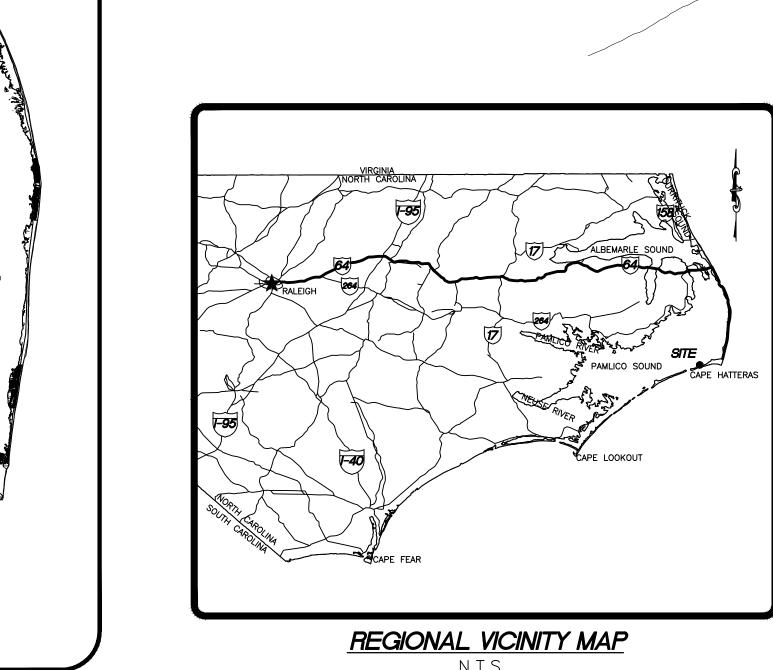
# HATTERAS VILLAGE COMMUNITY CENTER DISTRICT

SIDEWALKS ALONG NC 12 HIGHWAY AND EAGLE PASS ROAD IN HATTERAS VILLAGE HATTERAS ISLAND, NORTH CAROLINA





R/W MONUMENT FOUND EXISTING CONCRETE ADJACENT PROPERTY LINE EXISTING PAVEMENT SSP SURVEY CONTROL EXISTING FIRE HYDRANT ...... EXISTING GRAVEL EXISTING WATER METER EXISTING SOIL DRIVE EXISTING WATER VALVE EXISTING WATER VALVE WITNESS POST PROPOSED 4" CONCRETE SIDEWALK EXISTING POWER POLE PROPOSED 6" CONCRETE SIDEWALK EXISTING GUY WIRE ANCHOR EXISTING TELEPHONE PEDESTAL PROPOSED ELEVATED WALK/BRIDGE EXISTING CABLE TV PEDESTAL EXISTING LIGHT POLE EXISTING SIGNS ■ USACOE 404 WETLANDS RELOCATED SIGNS EXISTING CONTOURS ─··─··─ NORMAL WATER LEVEL PROPOSED CONTOURS EXISTING SPOT ELEVATIONS PROPOSED SPOT ELEVATIONS EXISTING TREELINE/VEGETATION

. PROPOSED TREELINE

FINAL DRAWING
FOR BIDDING
PURPOSES ONLY
(RELEASED 01.18.2021)



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## PRIOR TO CLEARING, THE CONTRACTOR SHALL FLAG THE SIDEWALK ROUTE AND REVIEW WITH THE ENGINEER TO VERIFY LIMITS OF CLEARING. SIDEWALK ALIGNMENT MAY BE SHIFTED SLIGHTLY TO PRESERVE SPECIMEN TREES OR LANDSCAPE FEATURES. ADJUSTMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION

ALL ITEMS SHOWN TO BE REMOVED SHALL BE PAID FOR UNDER "CLEARING & GRUBBING" (LUMP SUM) UNLESS OTHERWISE CALLED FOR WITHIN THE BID FORM.

# <u>SURVEY NOTES</u>

- PROJECT TOPOGRAPHIC SURVEYS, UTILITY LOCATIONS, AND RIGHT-OF-WAY SURVEYS WERE PERFORMED BY SEABOARD SURVEYING & PLANNING, INC. BETWEEN JUNE 2019 AND MARCH 2020.
- 2. PROJECT BASELINE CONTROL POINTS ARE 5/8" REBAR W/ SSP CAP.
- THIS IS AN ENGLISH PROJECT. ALL DISTANCES, STATIONS & COORDINATES ARE IN US SURVEY FEET.
- TOPOGRAPHY, PLANIMETRICS, RIGHT-OF-WAY LOCATIONS, UNDERGROUND UTILITIES, AND GRAVITY UTILITIES WERE COLLECTED AND MAPPED USING A COMBINATION OF IMAGERY, ORTHO PHOTOGRAPHY, GPS, CONVENTIONAL LOCATIONS, AND AUTOCAD.
- a. THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NGS FOR MONUMENT "XX" WITH NAD 83/2011 STATE PLANE GRID COORDINATES OF NORTHING: X FT EASTING: X FT. THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT GROUND TO GRID IS X.
- b. ALL ELEVATIONS SHOWN HEREON ARE BASED ON THE NAVD 88 DATUM PER NGS MONUMENT "XX" ELEV = XX FEET.
- THE LOCATIONS SHOWN HEREON FOR THE WESTERN RIGHT-OF-WAY OF NC 12 AND PROPERTY BOUNDARIES WEST OF NC 12 WERE DETERMINED FROM RECORDED DEEDS, PLATS, AND OTHER RECORD DOCUMENTS; AND BY FIELD LOCATION AND VERIFICATION OF EXISTING R/W AND PROPERTY BOUNDARY

# **EXISTING UTILITIES**

- PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATING SERVICE (NC811 / 800-632-4949) AND APPLICABLE NON-MEMBERS TO HAVE UTILITIES LOCATED.
- EXISTING UTILITIES SHOWN ON THESE DRAWINGS WERE LOCATED FROM FIELD LOCATIONS PROVIDED THROUGH CONTACT WITH NC811. UTILITY INFORMATION IS NOT GUARANTEED TO BE ACCURATE OR
- WORK REQUIRES RELOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS. CONTRACTOR SHALL CONTACT THE UTILITY REPRESENATIVE NOTED BELOW AND ENGINEER WITH AT LEAST 3 WEEKS NOTICE. THE CONTRACTOR SHALL COORDINATE WORK WITH THE PROVIDER AS NEEDED.

DARE COUNTY WATER SAMMY MIDGETT (252-256-1721) STEVE HARRIS (252-256-0926)

ELECTRIC

CAPE HATTERAS ELECTRICAL COOPERATIVE GEORGE PRICE (252-995-5616)

TELEPHONE CENTURY LINK

TIMOTHY MIDGETT (252-475-8265)

# CABLE TV CHARTER CABLE CINDY MUSCIA (252-581-0049)

- JASON DAVIDSON (252-482-1850)
- WATER VALVE BOXES TO BE ADJUSTED TO GRADE SHALL BE DONE SO EITHER THROUGH AVAILABLE CAPABILITY OF THE EXISTING BOX (SCREW TYPE) OR THROUGH AN EXTENSION. ALL VALVE BOX ADJUSTMENTS SHALL BE INSPECTED BY DARE COUNTY WATER DEPARTMENT FOR ALIGNMENT PRIOR TO
- WATER METER BOXES WILL BE RELOCATED BY THE COUNTY. THE COUNTY SHALL RELOCATE THE BOX AND ADJUST THE COUNTY (SUPPLY) SIDE OF THE SERVICE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THIS WORK. NOTIFICATION TO THE OWNER AND FOR RECONNECTION OF THE PROPERTY OWNERS LINE TO THE RELOCATED METER. WORK SHALL BE PERFORMED BY A PLUMBER LICENSED IN THE STATE OF NORTH CAROLINA.
- 6. VALVE WITNESS POST RELOCATIONS ARE TO BE PERFORMED BY DARE COUNTY WATER DEPARTMENT. SOME OR ALL POSTS MAY BE RELOCATED BY THE COUNTY PRIOR TO CONSTRUCTION
- LIGHTS AND OTHER ELECTRICAL FEATURES TO BE REMOVED SHALL BE ACCOMPLISHED AND PROPERLY TERMINATED BY AN ELECTRICIAN LICENSED IN THE STATE OF NORTH CAROLINA.

# <u>SIDEWALK NOTES</u>

- HORIZONTAL WALKWAY ALIGNMENT SHALL BE LESS THAN 5% (LONGITUDINAL SLOPE) AT ALL LOCATIONS EXCEPT AS NOTED ON RAMP PORTIONS OF ELEVATED SECTIONS WHERE HANDRAILS ARE PROVIDED, OR AT CURB RAMPS (6" MAX RISE IN 6')
- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 848 OF THE NCDOT STANDARD
- NCDOT DETECTABLE WARNING DOMES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND OTHER COMMERCIAL DRIVEWAY LOCATIONS AS SHOWN ON THE PLANS. DOME SHALL BE PLACED IN ACCORDANCE WITH NCDOT 848. ALL DETECTABLE WARNING DOMES SHALL CONFORM WITH SPECIAL PROVISION SP08-126. DOMES MATERIAL SHALL BE CONCRETE UNITS WITH A TERRA COTTA COLOR.

# DRAINAGE NOTES

- DRAINAGE PIPES SHALL BE HDPE SMOOTH LINED CORRUGATED PLASTIC PIPE EXCEPT WHERE EXTENDING AN EXISTING PIPE. DRAINAGE PIPE EXTENSIONS SHALL BE MADE USING THE SAME TYPE OF PIPE AS THE EXISTING DRAINAGE PIPE. CONNECTIONS SHALL BE MADE USING INDUSTRY RECOMMENDED
- CONTRACTOR SHALL VERIFY EXISTING INVERTS OF CULVERTS TO BE EXTENDED. IF FIELD MEASUREMENTS OF EXISTING INVERTS DO NOT AGREE WITH PLAN INFORMATION, NOTIFY CONSTRUCTION ADMINISTRATOR. INVERTS MAY BE FIELD ADJUSTED TO MATCH EXISTING INVERT.
- FLARED END SECTION SHALL BE PROVIDED AT ALL OPEN ENDS OF NEW DRAINAGE PIPE 12" OR LARGER. FLARED END SECTIONS MATERIAL SHALL MATCH PIPE.
- IN LOCATIONS WHERE EXISTING DRAINAGE PIPES ARE BEING EXTENDED, THE CONTRACTOR SHALL GRADE ADJACENT AREAS TO DIRECT DRAINAGE TO THE END OF THE EXTENDED PIPE.

- SIGNS TO BE RELOCATED SHALL BE PLACED SO THAT THE INSIDE EDGE OF THE SIGN IS NO MORE THAN 6' FROM THE EDGE OF THE TRAVEL LANE OR VEHICULAR SURFACE (NCDOT STD DWG 904) AND 6" FROM THE EDGE OF ANY EXISTING OR NEW SIDEWALK.
- ALL SIGNS SHALL BE LOCATED SO THAT THEY ARE CLEARLY VISIBLE FROM ANY DIRECTION FROM WHICH THE SIGN IS INTENDED TO BE READ.
- ALL HIGH VISIBILITY CROSSWALKS SHALL INCLUDE A PEDESTRIAN CROSSWALK WARNING SIGN CONSISTING OF MUTCD W11-2 & W16-7P ON EITHER SIDE OF THE CROSSWALK FACING TRAFFIC.

- ALL HIGH VISIBILITY CROSSWALKS AND STANDARD CROSSWALKS SHALL BE THERMOPLASTIC (120 MIL) IN ACCORDANCE WITH NCDOT SPECIFICATIONS SECTION 1205.
- PLANT WEEPING LOVEGRASS IN AREAS BETWEEN THE EDGE OF PAEMENT AND THE SIDEWALK ONLY IN AREAS WHERE PROFILE PAVEMENT MARKING LINES ARE SHOWN (3 LB/100 SF).

FINAL DRAWING FOR BIDDING PURPOSES ONLY (RELEASED 01.18.2021)

# EROSION AND SEDIMENTATION CONTROL NOTES

"SIDEWALKS THROUGHOUT THE VILLAGE OF HATTERAS ALONG NC 12 HIGHWAY AND EAGLE PASS ROAD" INCLUDES THE CONSTRUCTION OF APPROXIMATELY 2.9 MILES OF SIDEWALK ALONG NC-12 AND 0.8 MILES ALONG EAGLE PASS ROAD. CONCRETE SIDEWALKS WILL BE 5' IN WIDTH. AN ELEVATED WOOD PEDESTRIAN BRIDGE 8' IN WIDTH WILL ALSO BE PROVIDED ACROSS A MAN-MADE CANAL. THE SIDEWALK ALIGNMENT HAS BEEN SELECTED TO MINIMIZE CONFLICTS WITH EXISTING UTILITIES AND VEGETATION. CONSTRUCTION IS SCHEDULED TO BEGIN IN 2020

THE PROJECT IS PRIMARILY LOCATED WITHIN THE NCDOT RIGHT-OF-WAY. WITH THE EXCEPTION OF AN ENCROACHMENT ONTO DARE COUNTY PROPERTY, TOPOGRAPHY IS LEVEL AND THE SOILS ARE SANDY. PORTIONS OF THE PROJECT WILL INCLUDE THE REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT OR STRIPING OF EXISTING PAVEMENT AS DENOTED ON THE PLANS. DISTURBANCE SHALL BE MAINTAINED WITHIN 5' ON EITHER SIDE OF THE SIDEWALK (15' TOTAL) EXCEPT IN ISOLATED AREAS WHERE SWALE RE-GRADING IS REQUIRED (AS SHOWN ON PLANS) APPROXIMATELY 5.54 ACRES ARE TO BE DISTURBED. DISTURBED AREAS ARE TO BE STABILIZED WITH TEMPORARY/PERMANENT VEGETATION ACCORDING TO THE SEQUENCE OF CONSTRUCTION.

## II. SOILS:

UPLAND SOIL TYPES AS MAPPED IN THE SOIL SURVEY OF DARE COUNTY:

COROLLA FINE SAND (CoB)

DUCKSTON FINE SAND (DtA) NEWHAN COROLLA COMPLEX (NhC)

# III. CONSTRUCTION SEQUENCE:

- IDENTIFY CAMA AND USACOE JURISDICTIONAL AREAS
- HOLD PRE—CONSTRUCTION MEETING

# SIDEWALK CONSTRUCTION

- FLAG OR STAKE WORK ALIGNMENT FOR SECTION TO BE CONSTRUCTED (1,500 FT MAXIMUM SEGMENT) • INSTALL SILT FENCING ALONG UPLAND SIDE OF JURISDICTIONAL AREAS AS SHOWN ON PLANS INSTALL COIR LOGS WERE SHOWN ON PLANS
- SELECTIVELY REMOVE TREES AND SHRUBS TO CONSTRUCT SIDEWALKS AND ELEVATED WOOD BRIDGES. STRIP VEGETATION AND TOPSOIL ALONG PORTION OF SIDEWALK UNDER CONSTRUCTION INSTALL CULVERTS, PLACE FILL MATERIAL CONSTRUCT SIDEWALK OR WALKWAY
- STABILIZE WITH TEMPORARY PERMANENT VEGETATION • STABILIZATION SHALL OCCUR ONCE SECTIONS NO LONGER THAN 1,500 HAVE BEEN COMPLETED CONTINUE TO SEED, FERTILIZE AND WATER DISTURBED AREA TO STABILIZE

# IV. SEDIMENTATION EROSION CONTROL NOTES:

- 1. PRIOR TO ANY LAND DISTURBING ACTIVITIES AND AFTER DELINEATION OF THE SIDEWALK LOCATION AND JURISDICTIONAL AREAS, THE CONTRACTOR SHALL SCHEDULE A PRE-CLEARING MEETING ON THE SITE WITH THE CONSTRUCTION MANAGER.
- 2. PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL HAVE THE APPROPRIATE UNDERGROUND UTILITIES LOCATED.
- 3. PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES, EROSION AND SEDIMENTATION CONTROL MEASURES IDENTIFIED ON THE EROSION AND SEDIMENT CONTROL AND THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT PLANS SPECIFICATIONS
- 4. THE CONTRACTOR SHALL ENSURE THAT AREAS OUTSIDE OF THE LIMITS OF LAND DISTURBANCE AS WELL AS EXISTING IMPROVEMENTS SPECIFICALLY NOTED FOR PROTECTION ARE NOT ADVERSELY IMPACTED BY ANY CLEARING ACTIVITIES.
- 5. THE LIMITS OF LAND DISTURBANCE SHALL BE MAINTAINED AS NOTED UNLESS OTHERWISE APPROVED. THE CONTRACTOR SHALL ENSURE THAT AREAS OUTSIDE OF THE LIMITS OF LAND DISTURBING AS WELL AS TREES SPECIFICALLY NOTED FOR PROTECTION ARE NOT ADVERSELY IMPACTED BY ANY CONSTRUCTION ACTIVITIES. ANY SPECIMEN TREES DAMAGED SHALL BE REPLACED IN KIND.
- 6. EXPOSED SIDE SLOPES SHALL BE PLANTED OR PROVIDED WITH TEMPORARY GROUND COVER SUFFICIENT TO CONTROL EROSION WITHIN 14 CALENDER DAYS (7 FOR SLOPES STEEPER THAN 3H: 1V) OF THE COMPLETION OF ANY PHASE OF GRADING.
- 7. IF EXCESSIVE WIND EROSION OR STORM WATER RUNOFF DEVELOPS DURING TIME OF CONSTRUCTION IN ANY LOCATION ON THE PROJECT SITE, ADDITIONAL SAND OR SILT FENCING SHALL BE INSTALLED AS DIRECTED BY ENGINEER, SEE SAND OR SILT FENCE
- 8. SOIL EROSION AND SEDIMENTATION CONTROLS TO BE INSPECTED, MAINTAINED AND REPAIRED AS NECESSARY
- 9. NO BURNING IS PERMITTED ON SITE.
- 10. NO BORROW PERMITTED FROM THE SITE.
- 11. ANY OFF-SITE MATERIAL USED FOR GRADING FILL SHALL BE OBTAINED FROM A
- 12. EXISTING TOPOGRAPHIC INFORMATION BASED ON THE SURVEY INFORMATION OBTAINED BY McKIM AND CREED DURING APRIL AND AUGUST OF 2012.

# V. SEEDING SCHEDULE

# APRIL 1 - MAY 15: PERMANENT SEEDING

CENTIPEDE GRASS 3 LB/1000 SF COMMON BERMUDAGRASS 1 LB/1000 SF

WINTER RYE GRAIN 3 LB/1000 SF NOTE: DELETE RYE GRAIN IF OVERSEEDING ESTABLISHED RYE OR FESCUE.

# DELETE FESCUE IF OVERSEEDING ESTABLISHED FESCUE

SPECIES

3 LB/1000 SF COMMON BERMUDAGRASS 1 LB/1000 SF GFRMAN MILLET 3 LB/1000 SF

NOTE: DELETE MILLET IF OVERSEEDING ESTABLISHED MILLET OR FESCUE. DELETE FESCUE IF OVERSEEDING ESTABLISHED FESCUE

# <u>AUGUST 15 - APRIL 1: TEMPORARY SEEDING</u>

SPECIES RATE

CENTIPEDE GRASS 3 LB/1000 SF WINTER RYE GRAIN 5 LB/1000 SF

# SOIL AMENDMENTS

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 500 LB

USE JUTE, EXCELSIOR MATTING OR OTHER EFFECTIVE CHANNEL LINING MATERIAL TO COVER BOTTOM AND SIDES OF SWALES. ANCHOR MATTING PER MANUFACTURERS RECOMMENDATIONS. HYDROSEEDING IS ALSO AN ACCEPTABLE METHOD OF TEMPORARY STABILIZATION.

A MINIMUM OF 3 WEEKS IS REQUIRED TO FOR ESTABLISHMENT. INSPECT AND REPAIR MULCH FREQUENTLY. FERTILIZE THE FOLLOWING SPRING

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

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.

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

Plastic sheeting

SECTION E: GROUND STABILIZATION

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

Permanent Stabilization Temporary grass seed covered with straw or
 Permanent grass seed covered with straw or other mulches and tackifiers other mulches and tackifiers • Geotextile fabrics such as permanent soil Hydroseeding Rolled erosion control products with or reinforcement matting without temporary grass seed Hydroseeding

 Appropriately applied straw or other mulch
 Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion

Structural methods such as concrete, asphalt or

- retaining walls • Rolled erosion control products with grass seed POLYACRYLAMIDES (PAMS) AND FLOCCULANTS
- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures Apply flocculants at the concentrations specified in the NC DWR List of Approved
- Provide ponding area for containment of treated Stormwater before discharging Store flocculants in leak-proof containers that are kept under storm-resistant cover

PAMS/Flocculants and in accordance with the manufacturer's instructions.

or surrounded by secondary containment structures.

## EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 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
- . Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

Identify leaks and repair as soon as feasible, or remove leaking equipment from the

## 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.
- 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

- 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.
- 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.

- 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
- 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.



# . The concrete vashout structures shall e habitabled valen the librid and/or olds reaches 70x of the structures SCHOOLETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MANAGE VITH STOMAGE NOTING DEVICE. ACINCRETE VASHILIT STRUCTURE HEERS TO BE CLEARY MARKED VITH SERVICE NOTICE DOVICE.

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

ABOVE GRADE WASHOUT STRUCTURE

- lot perimeter silt fence. Install temporary concrete washouts per local requirements, where applicable. If an
- review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. 5. 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.
- approving authority.
- 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

# HERBICIDES, PESTICIDES AND RODENTICIDES

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

- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning
- Do not stockpile these materials onsite.
- HAZARDOUS AND TOXIC WASTE
- 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

# SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

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

properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,

# ECTION B: RECORDKEEPING

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

SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

- corrective action 2. Additional Documentation to be Kept on Site In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

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

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

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

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items, (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,

(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include

- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above, (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

# **SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION C: REPORTING**

 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 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

• They are less than 25 gallons but cannot be cleaned up within 24 hours,

- (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

# . 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)

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
	<ul> <li>a 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.</li> </ul>
(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	A report at least ten days before the date of the hypass if possible

- A report at least ten days before the date of the bypass, if possible bypasses [40 CFR The report shall include an evaluation of the anticipated quality and 122.41(m)(3)] effect of the bypass (d) Unanticipate Within 24 hours, an oral or electronic notification. bypasses [40 CFR
- Within 7 calendar days, a report that includes an evaluation of the 122.41(m)(3)] quality and effect of the bypass. (e) Noncomplianc Within 7 calendar days, a report that contains a description of the of this permit that noncompliance, and its causes: the period of noncompliance.
  - continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence 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.

including exact dates and times, and if the noncompliance has not

been corrected, the anticipated time noncompliance is expected to



NORTH CAROLINA

Environmental Quality



STRICT PASS H DETA 

5 ∞ SHAT ROJ

SCALE:

PROJ. NO. 08343B

may endanger

environment[40]

CFR 122.41(I)(7)]

health or the

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

BELOW GRADE VASHOUT STRUCTURE

alternate method or product is to be used, contact your approval authority for

- . 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
- 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 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

components when no longer functional. When utilizing alternative or proprietary

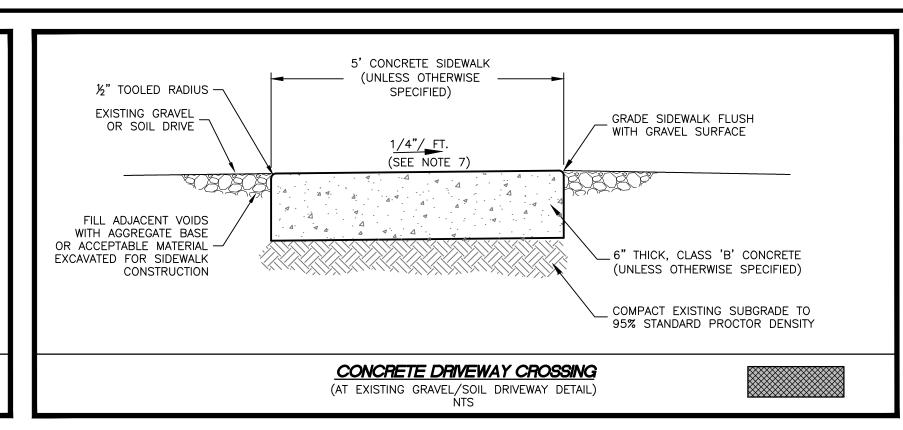
overflow events. Replace the tarp, sand bags or other temporary structural

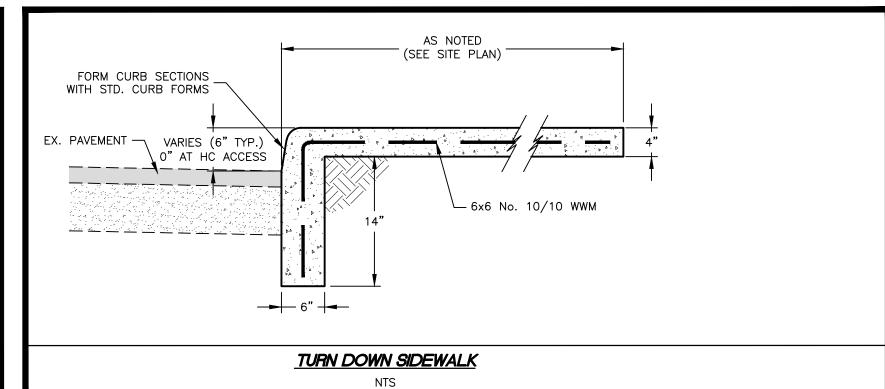
caused by removal of washout.

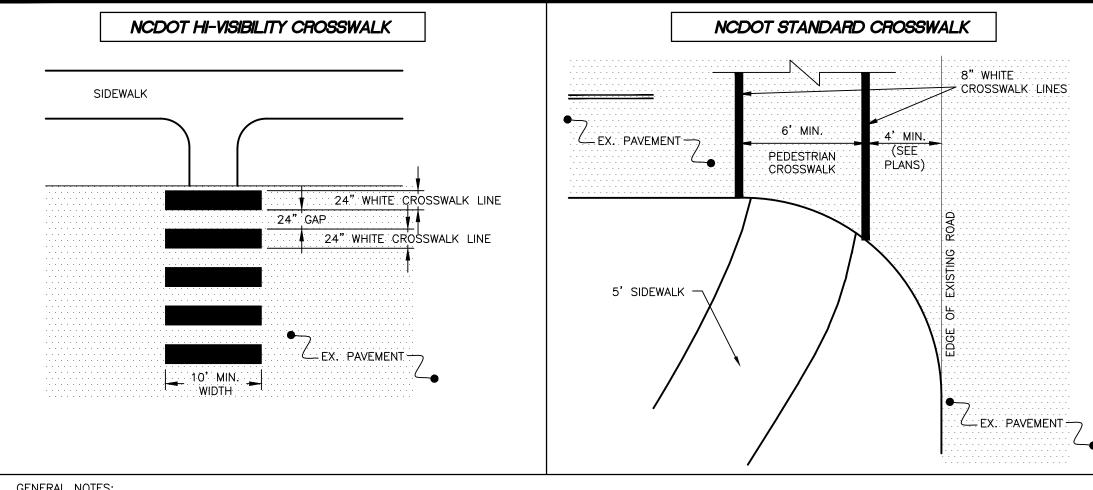
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water
- Create designated hazardous waste collection areas on-site.

or surface water. If a spill occurs, clean area immediately.

EFFECTIVE: 04/01/19







# GENERAL NOTES:

- 1. THE MINIMUM WIDTH OF STANDARD CROSSWALKS IS 6'. THE WIDTH OF HI-VISIBILITY CROSSWALKS IS 10 FEET.
- CROSSWALKS SHOULD BE CENTERED TO THEIR CORRESPONDING WHEELCHAIR RAMPS, BUT THEY SHALL NOT BE SET WITHIN THE INTERSECTION AREA ESTABLISHED BY BISECTING THE INTERSECTION RADII.

NCDOTPAVEMENT MARKINGS PEDESTRIAN CROSSWALKS

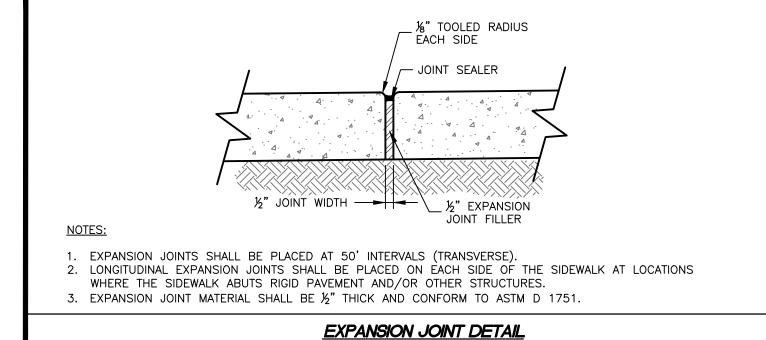
- 3. PLACEMENT OF CROSSWALKS SHALL IN ALL CASES BE COORDINATED WITH THE LOCATION OF SIDEWALK.

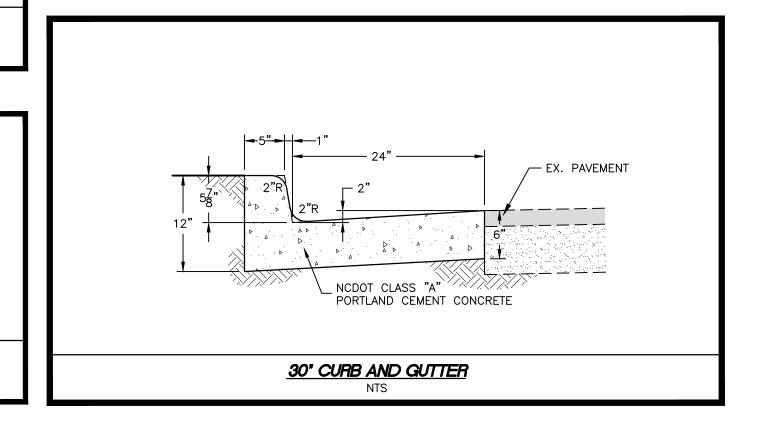
# FINAL DRAWING FOR BIDDING PURPOSES ONLY

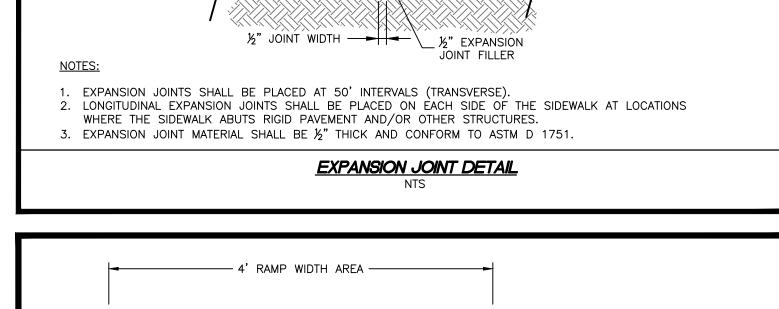
# **CONCRETE SIDEWALK NOTES:**

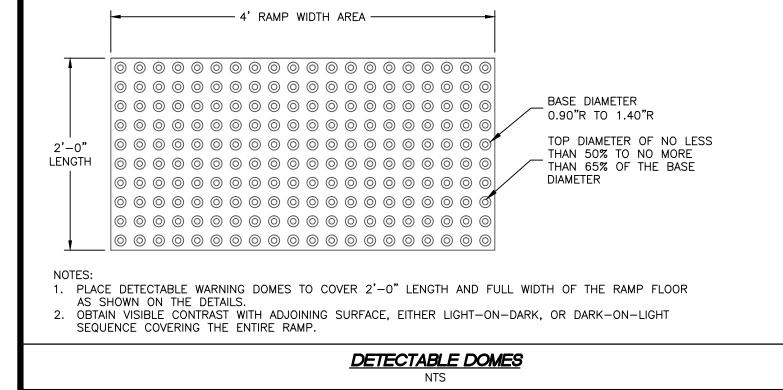
# (RELEASED 01.18.2021)

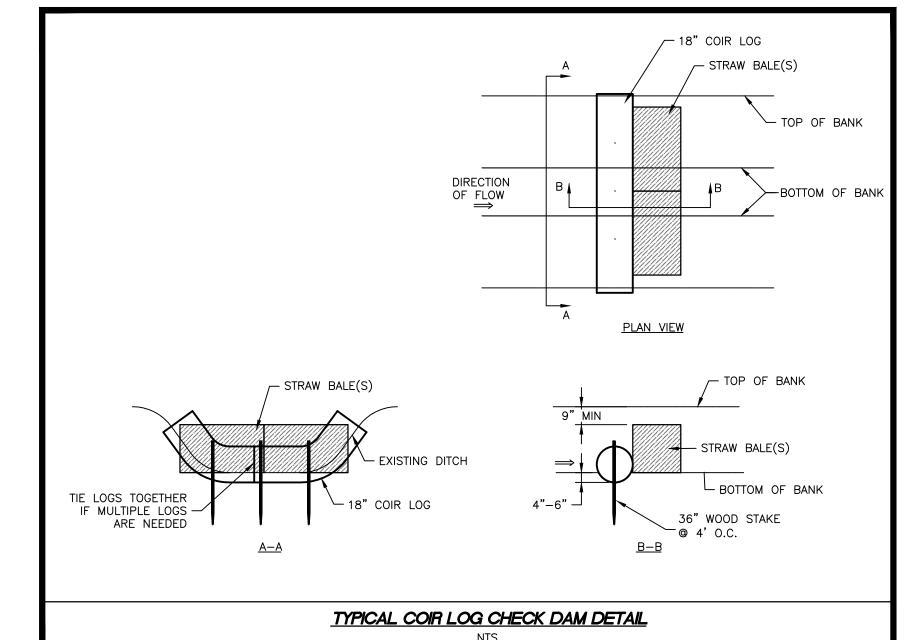
- 1. ALL CONCRETE SHALL BE CLASS 'B', 4" THICK, UNLESS NOTED OTHERWISE. DRIVE APRONS AND SIDEWALK AT DRIVEWAYS SHALL BE 6" THICK CONCRETE SHALL BE PREPARED IN ACCORDANCE WITH ACI 211.1, ACI 301 AND ASTM C94.
- 2. CONTROL JOINTS SHALL BE PLACED PERPENDICULAR TO THE EDGE OF PAVEMENT AT 5' SPACING. CONTROL JOINTS SHALL BE SAWED.
- 3. EXPANSION JOINTS SHALL BE PLACED AT THE END OF EACH SECTION OF CONSTRUCTION INCLUDING THE LOCATIONS THAT PAVEMENT ABUTS EXISTING PAVEMENT AND AT 30' INTERVALS. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK AND CONFORM TO ASTM D 1751.
- 4. LONGITUDINAL SLOPE SHALL NOT EXCEED 5%. 5. A BROOMED SURFACE FINISH SHALL BE PROVIDED UNLESS OTHERWISE APPROVED BY THE OWNER.
- TESTING SHALL BE PROVIDED BY THE CONTRACTOR. 7. REFER TO TYPICAL SECTION DETAILS AND PLANS FOR SLOPE DIRECTION.

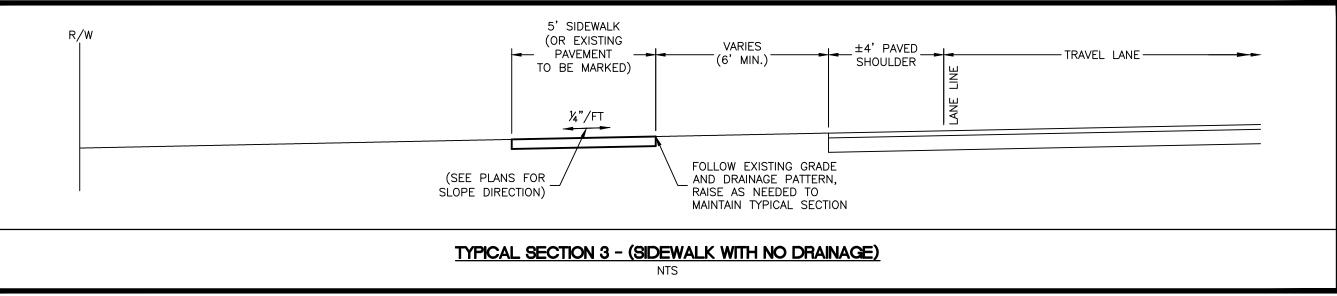












SEE CHART

¼"/FT

1"/ FT. (TYP)

4" THICK (6" AT DRIVEWAYS)

(UNLESS OTHERWISE SPECIFIED)

COMPACT EXISTING SUBGRADE TO

95% STANDARD PROCTOR DENSITY

APPLY JOINT FILLER

\_6" THICK, CLASS 'B' CONCRETE

(UNLESS OTHERWISE SPECIFIED)

COMPACT EXISTING SUBGRADE TO 95% STANDARD PROCTOR DENSITY

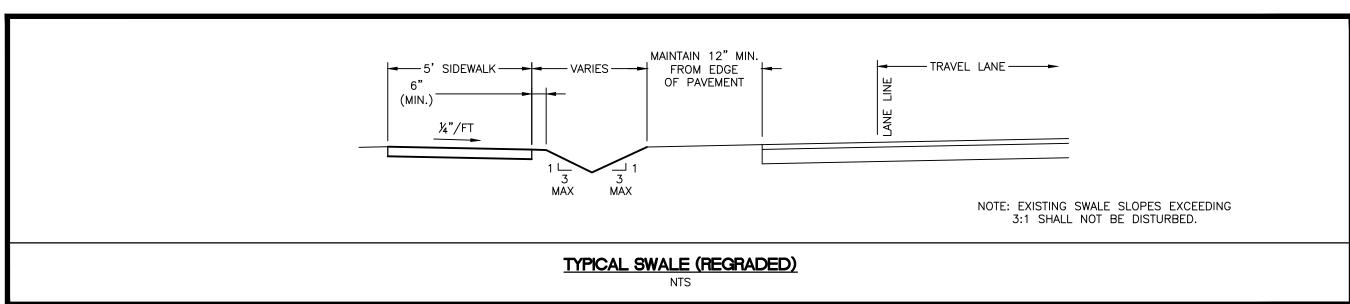
±4' PAVED

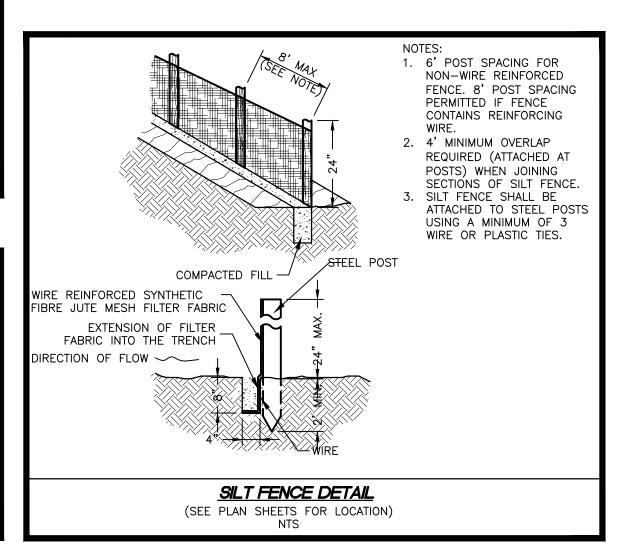
SHOULDER

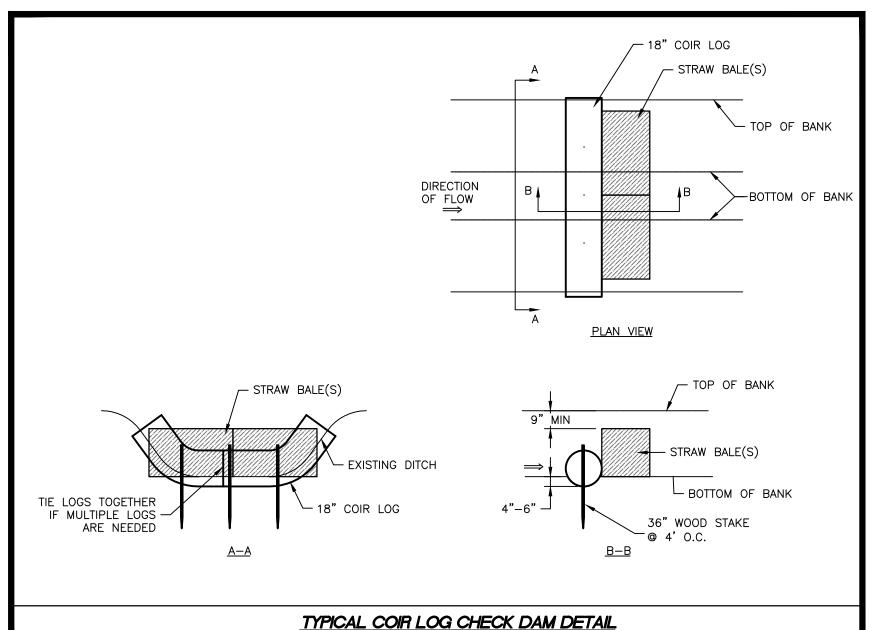
-TRAVEL LANE-

(EACH SIDE)

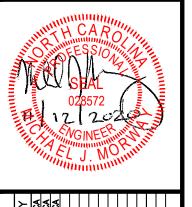
CLASS 'B' CONCRETE

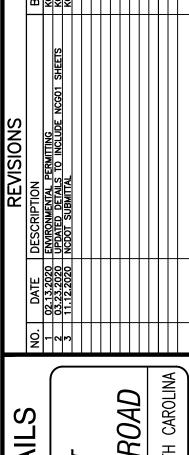










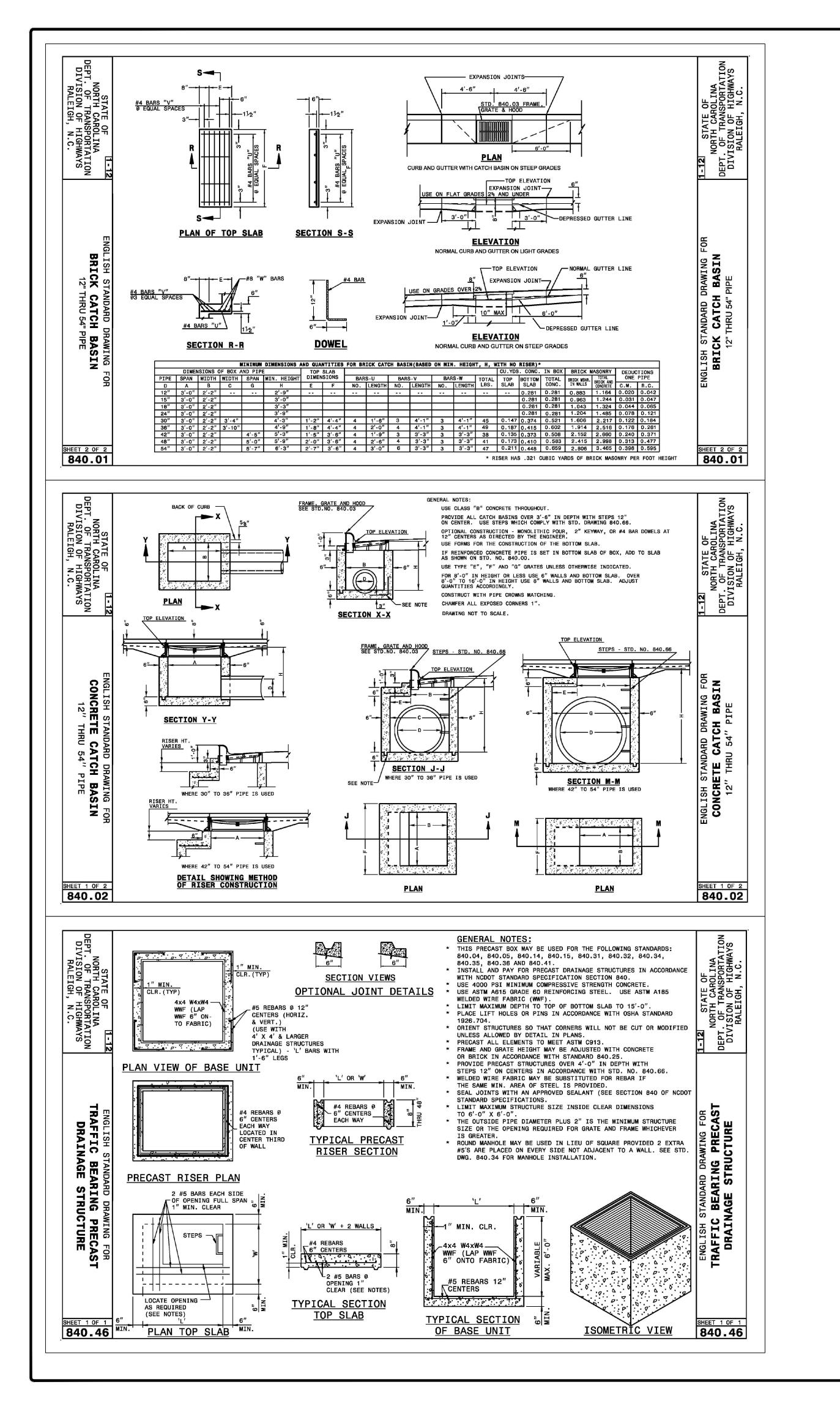


DISTRICT LE PASS F CENTER D AND EAGLI YTINUMMO  $\mathcal{C}$ AGE SIDEWALK

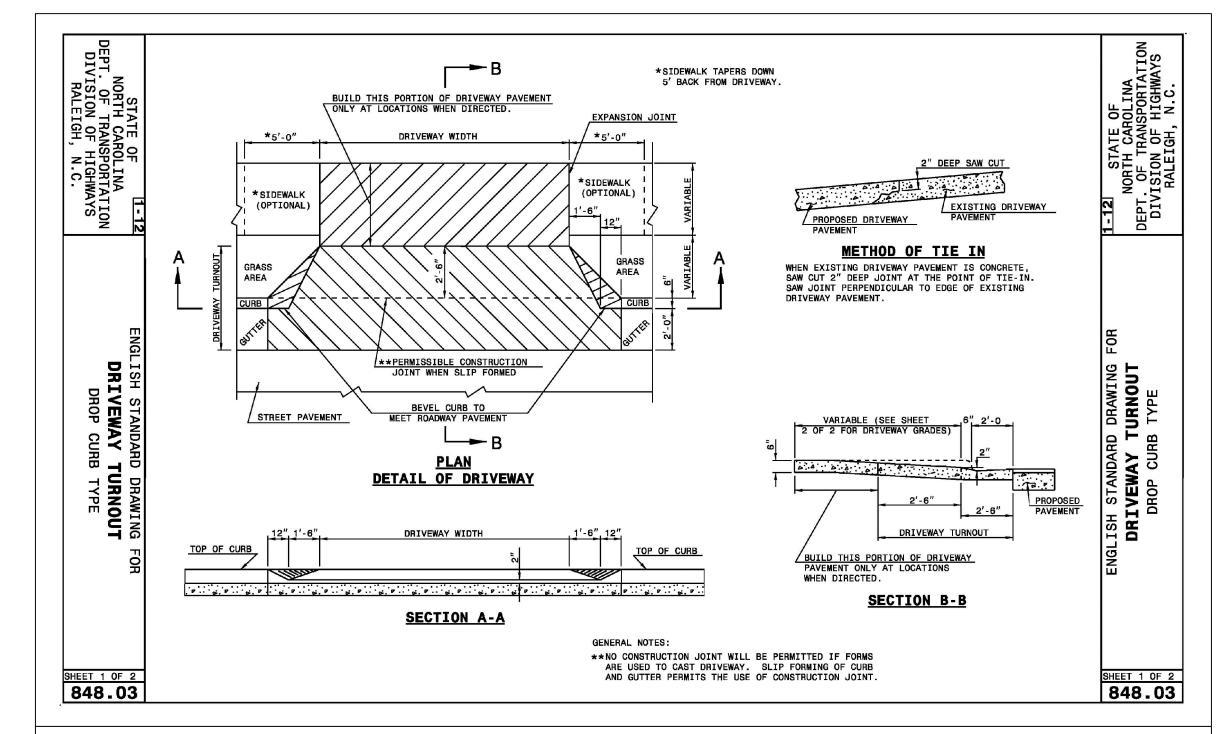
HATTERA SID

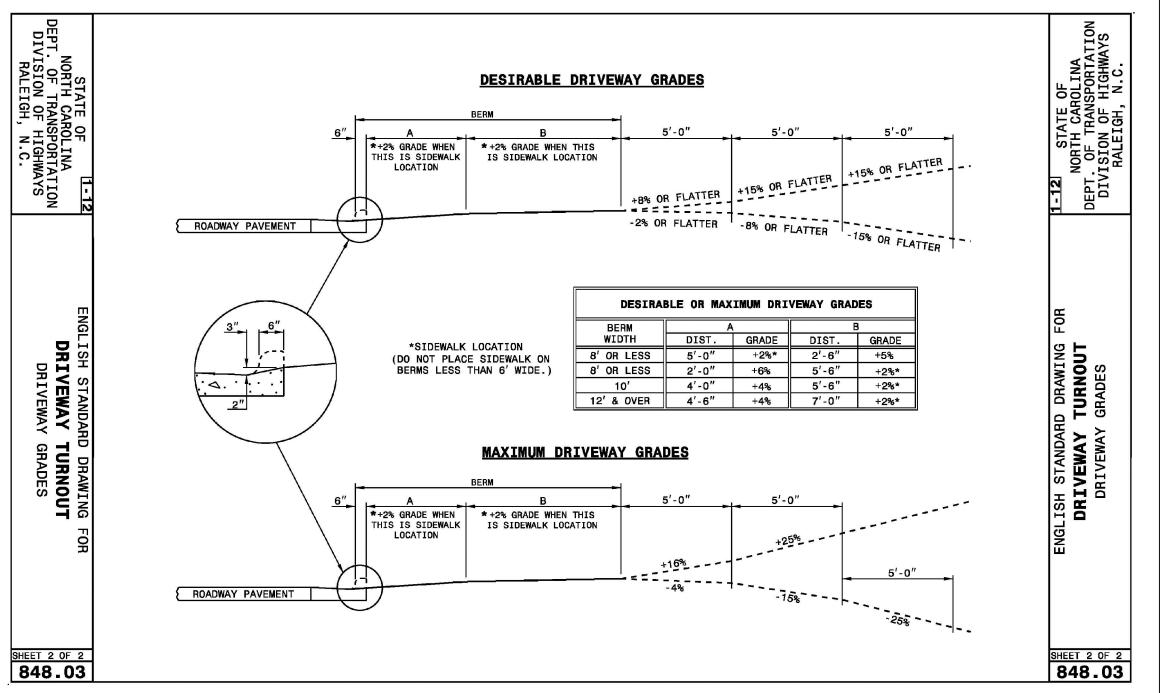
SCALE:

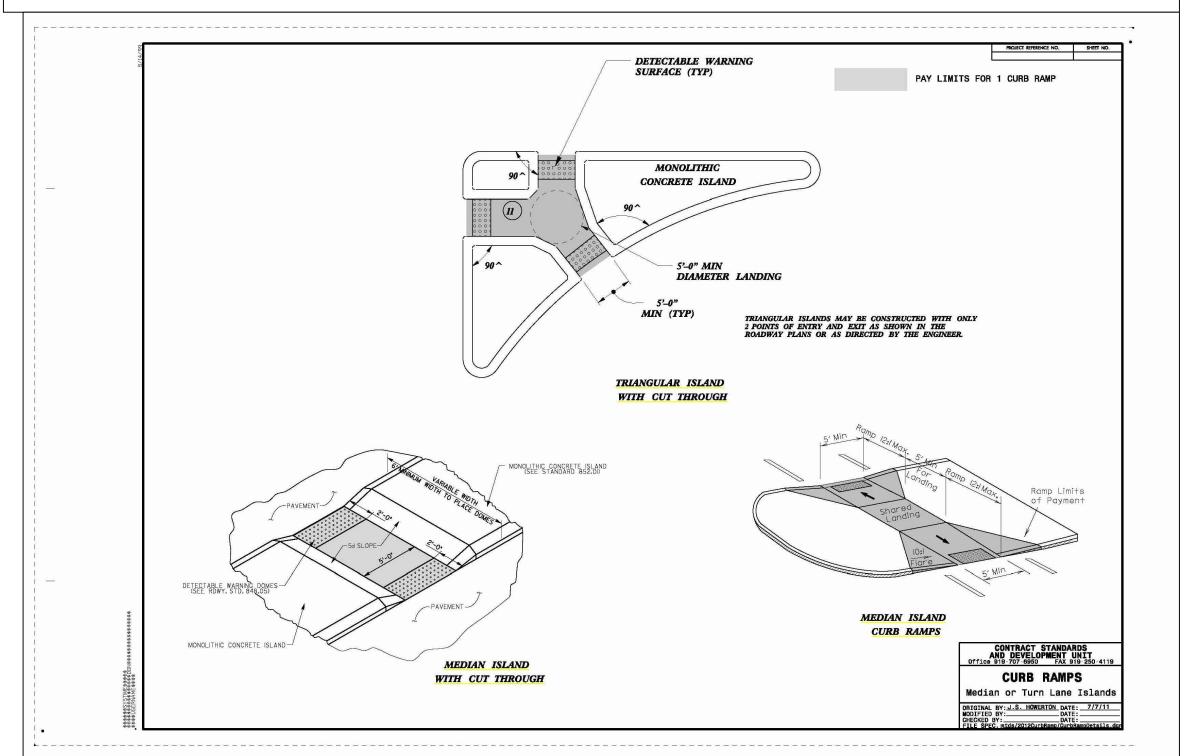
PROJ. NO. 08343B



# FINAL DRAWING FOR BIDDING PURPOSES ONLY (RELEASED 01.18.2021)









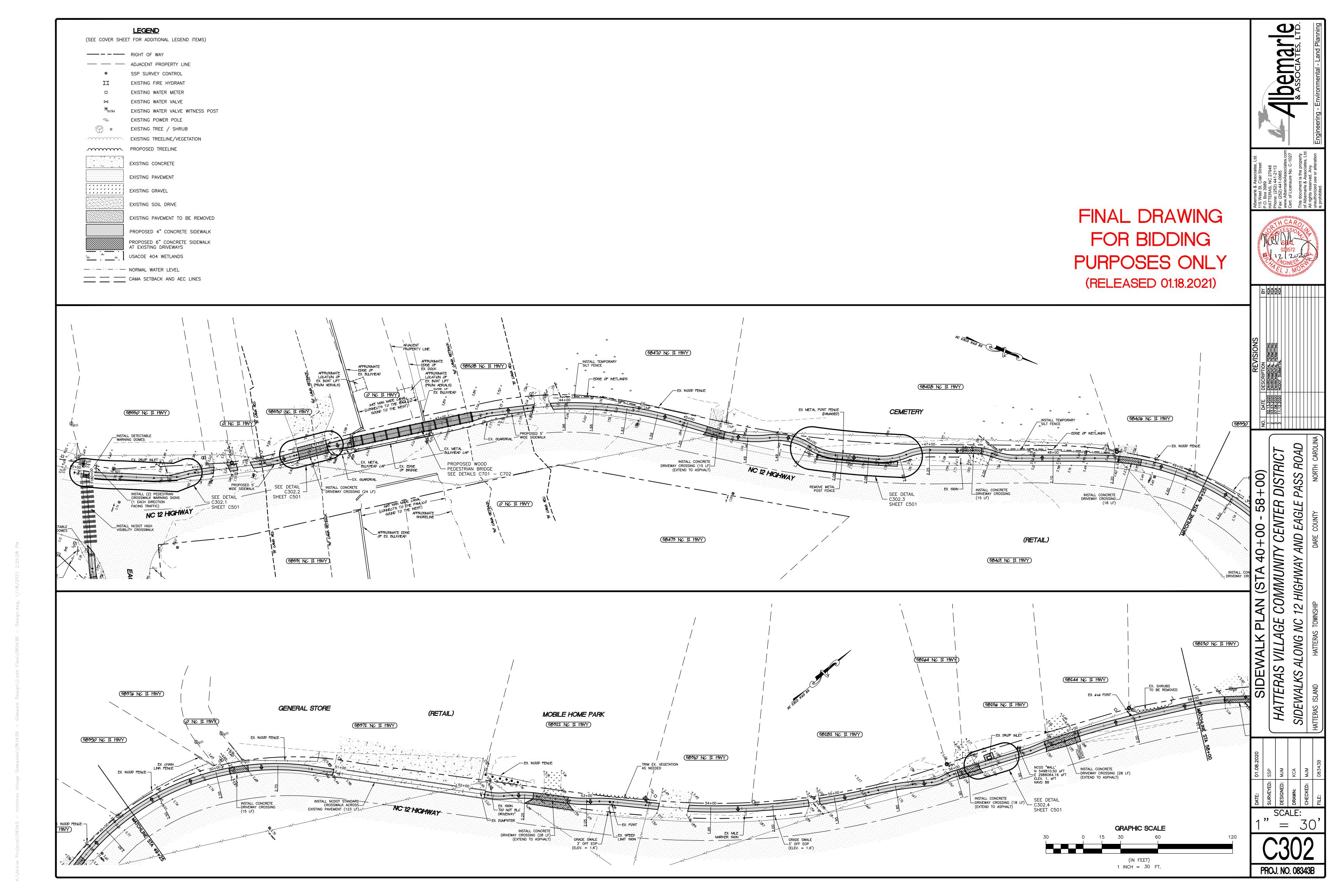


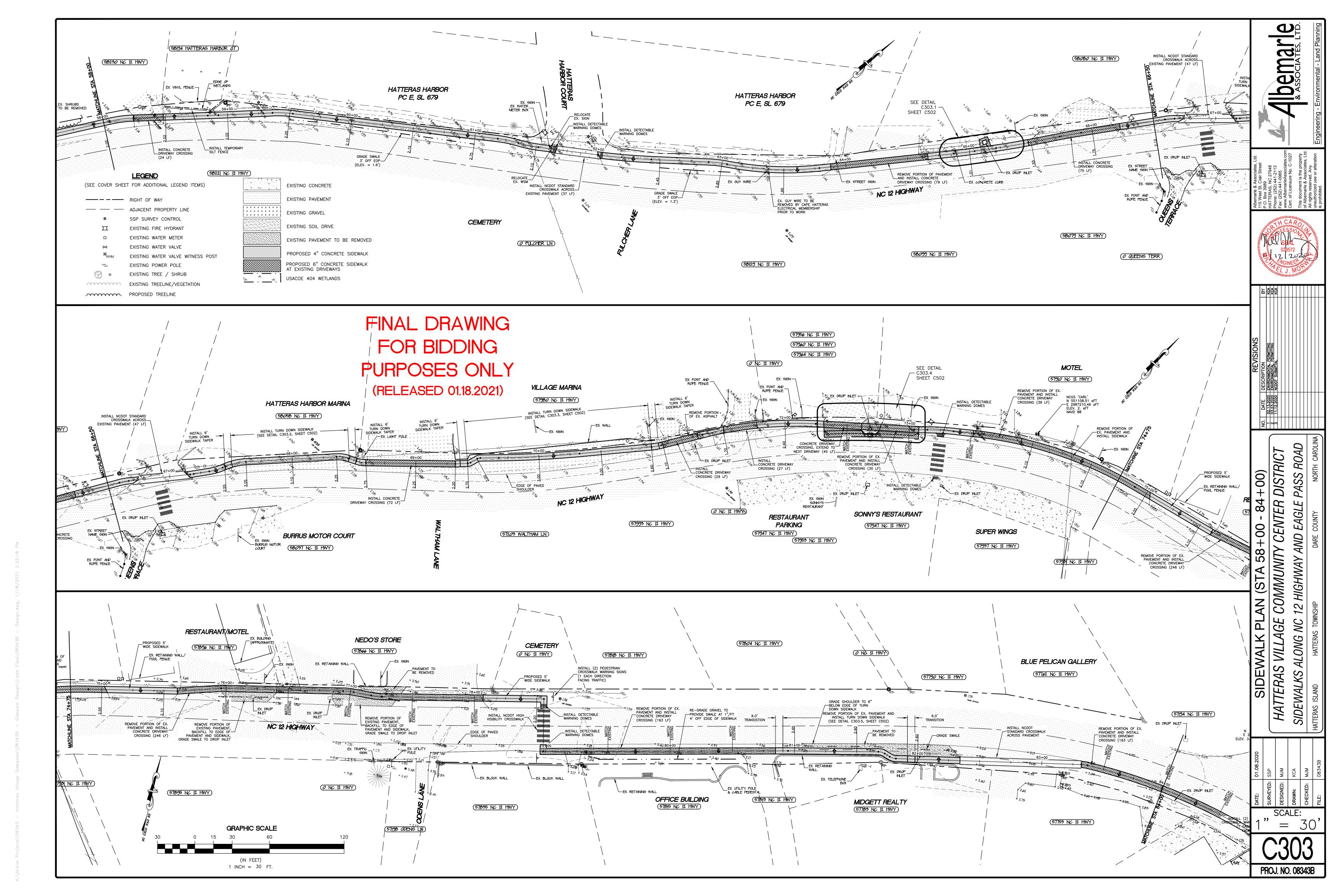
DISTRICT COMMUNIT

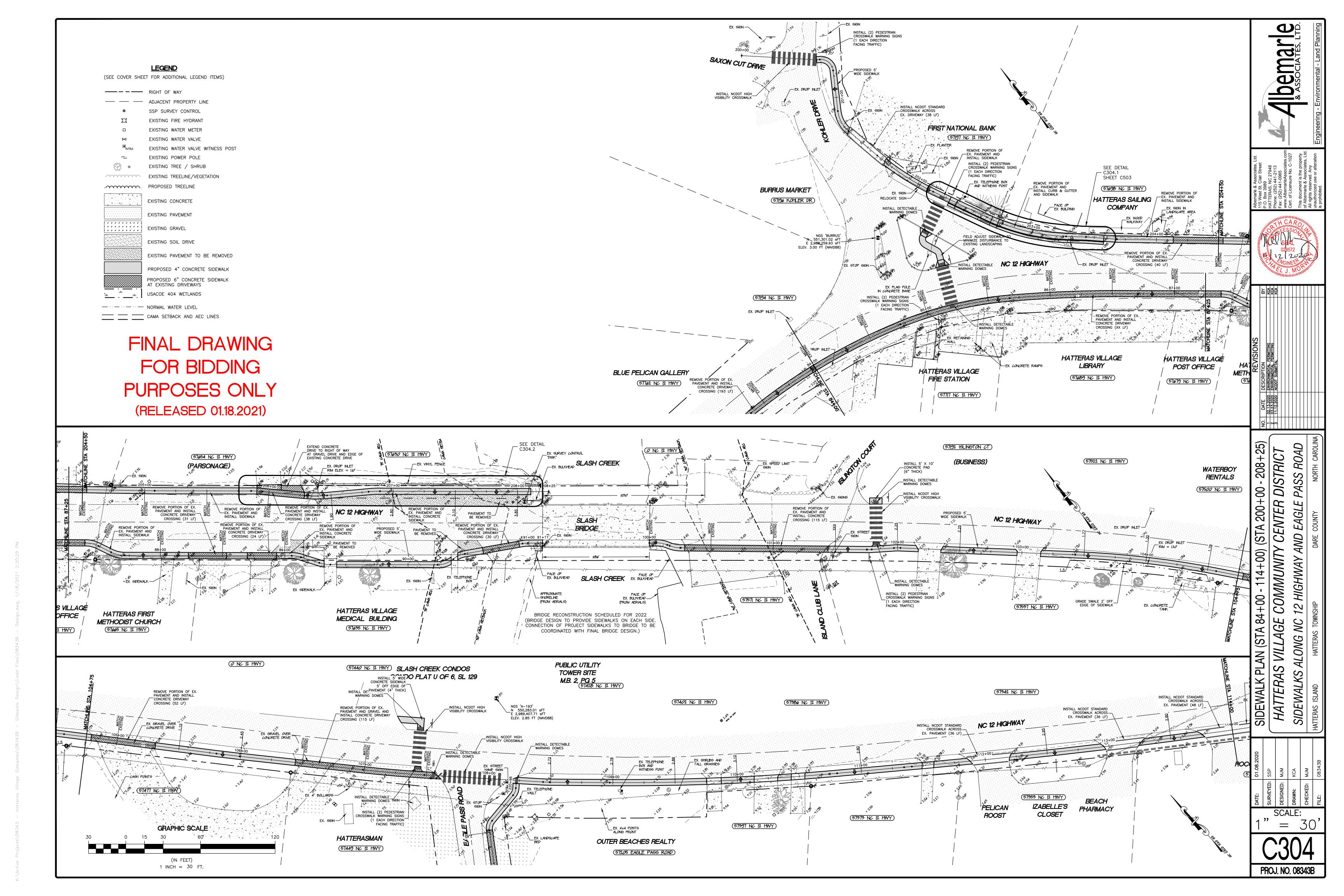
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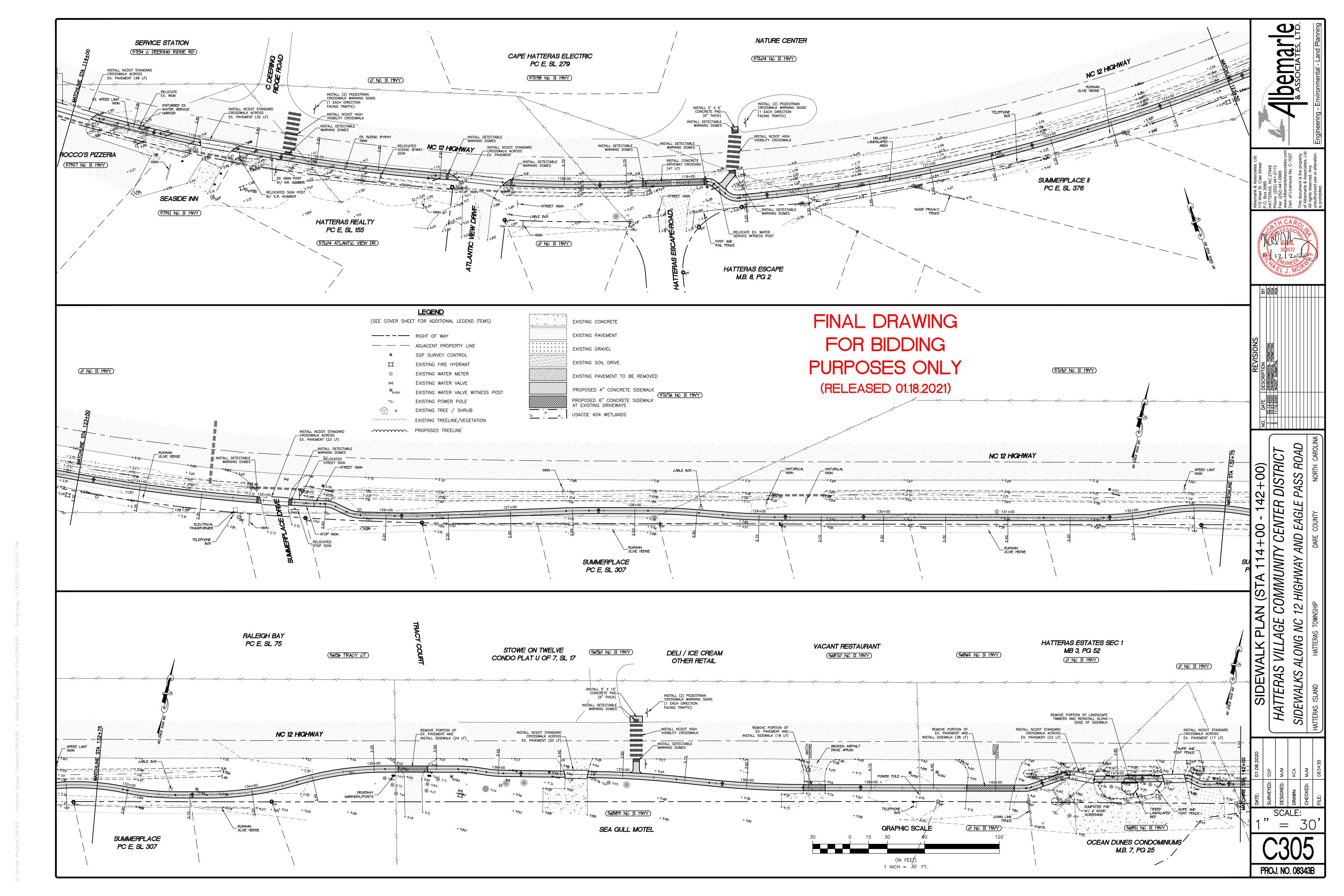
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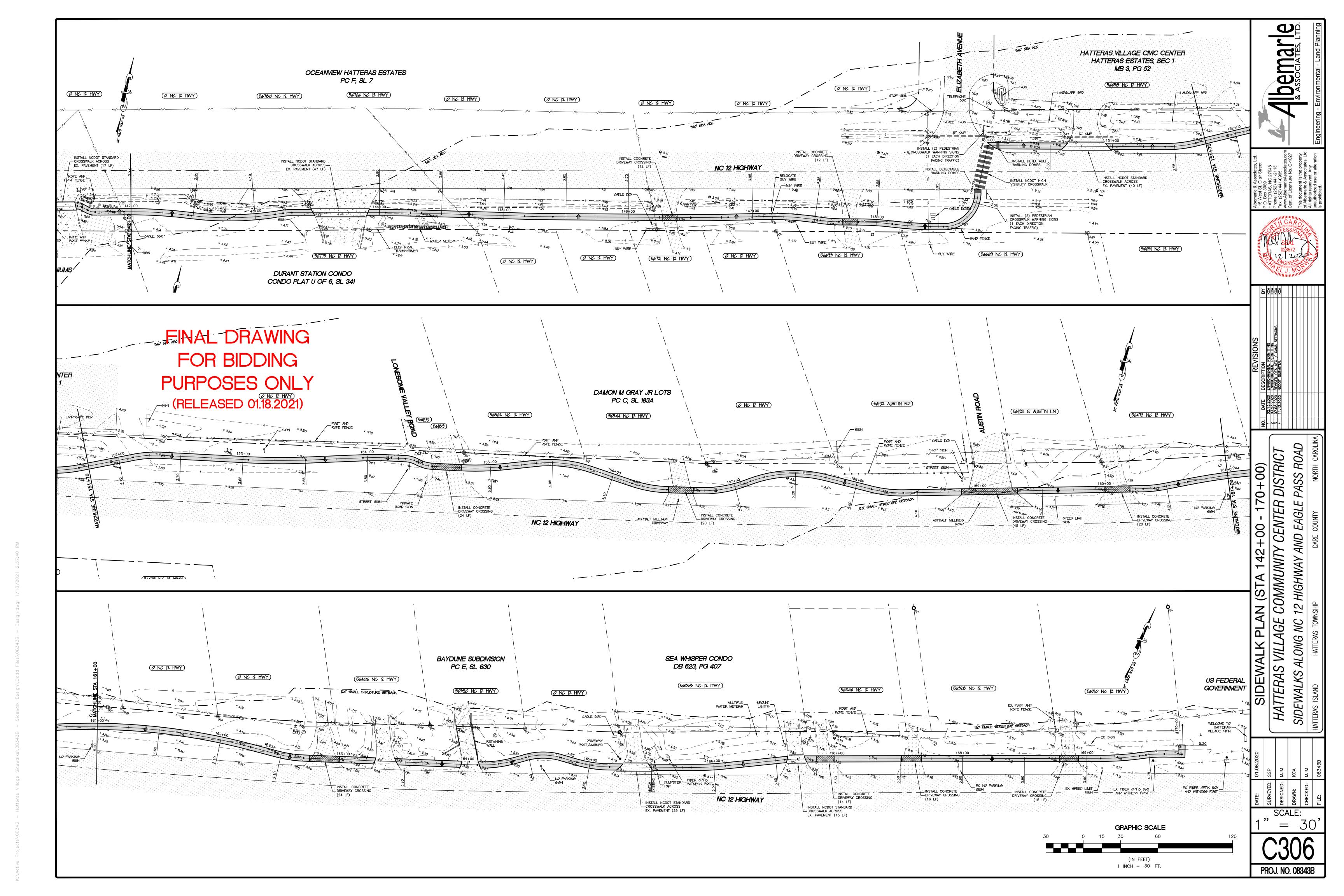
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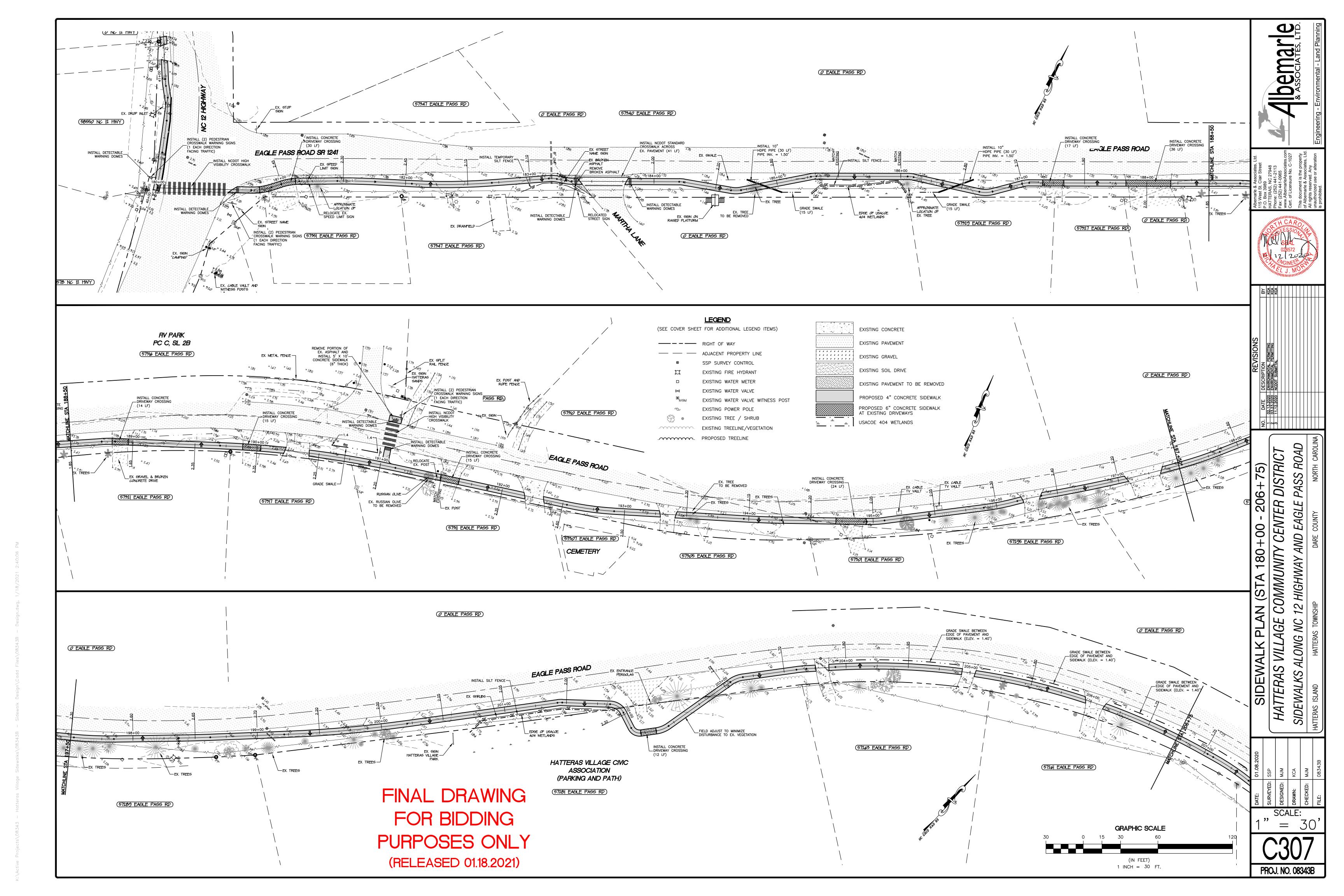


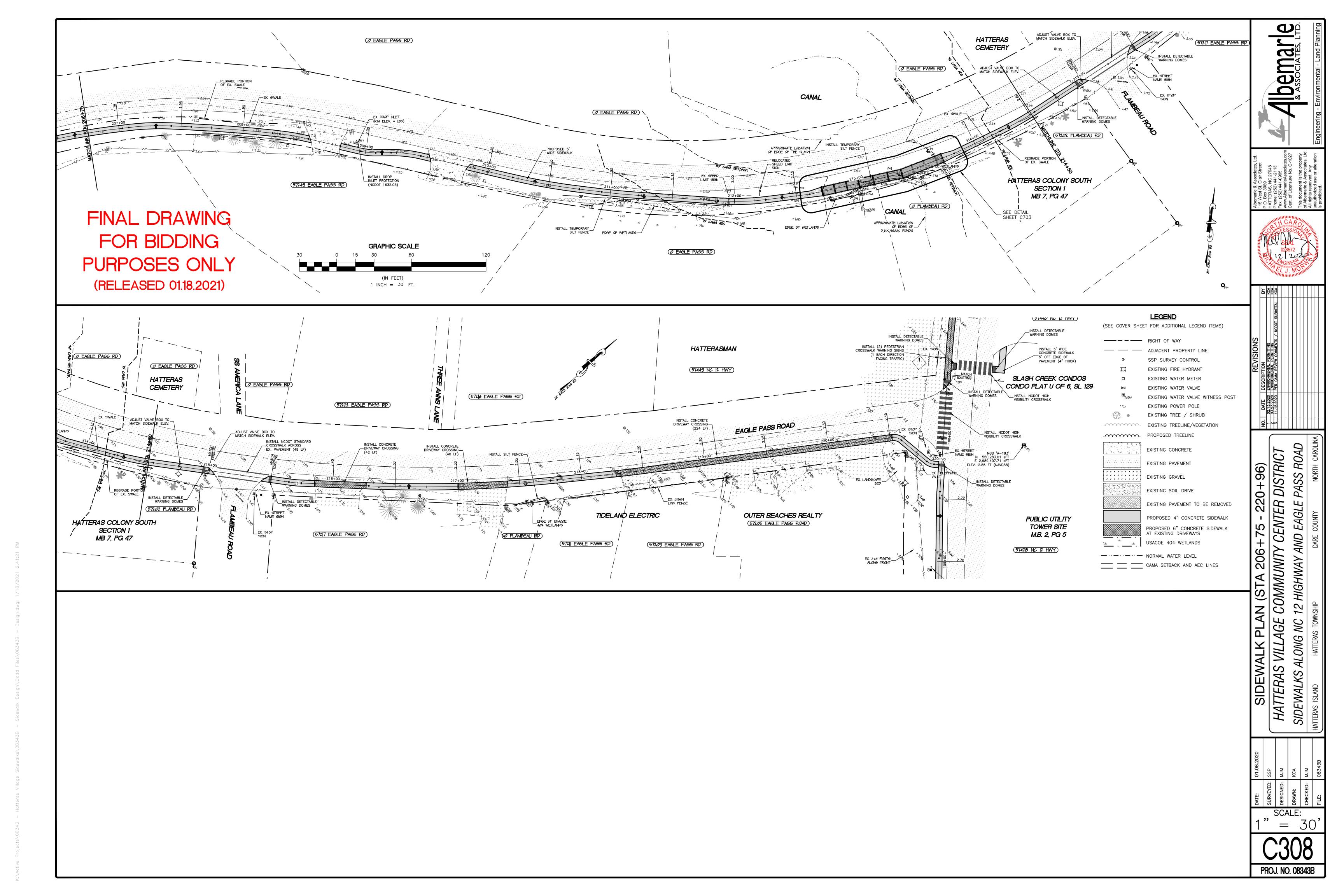


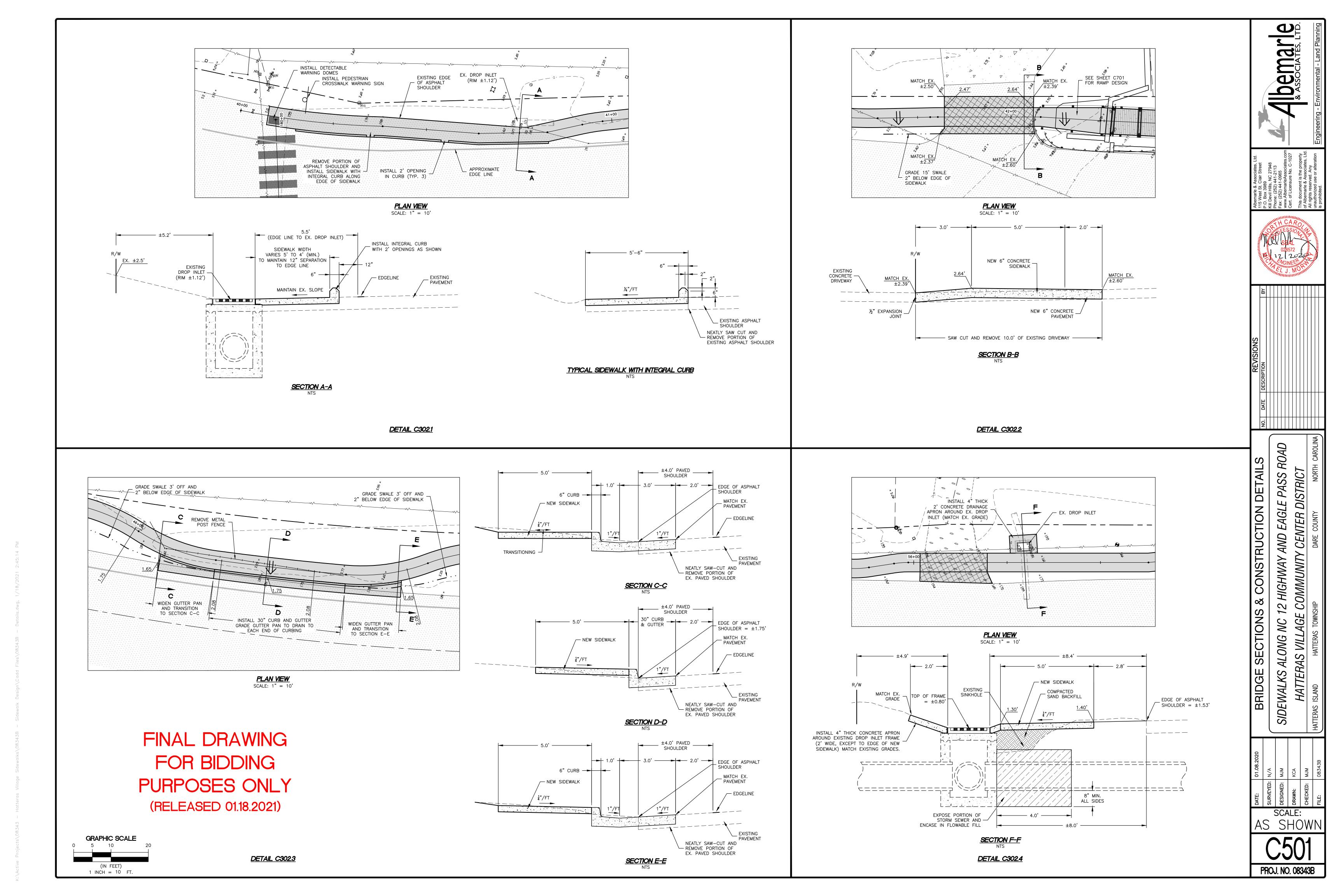


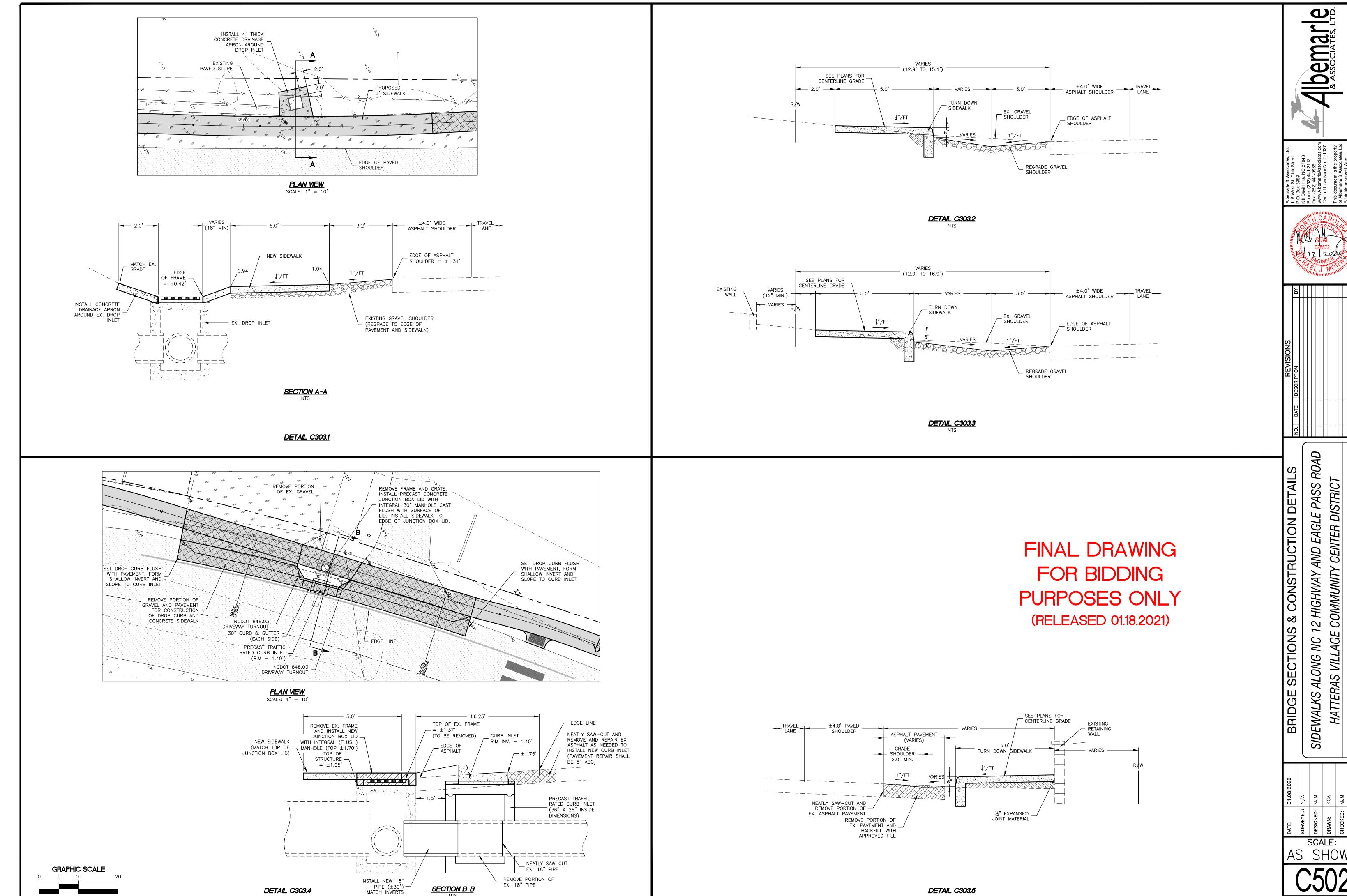












EX. 18" PIPE

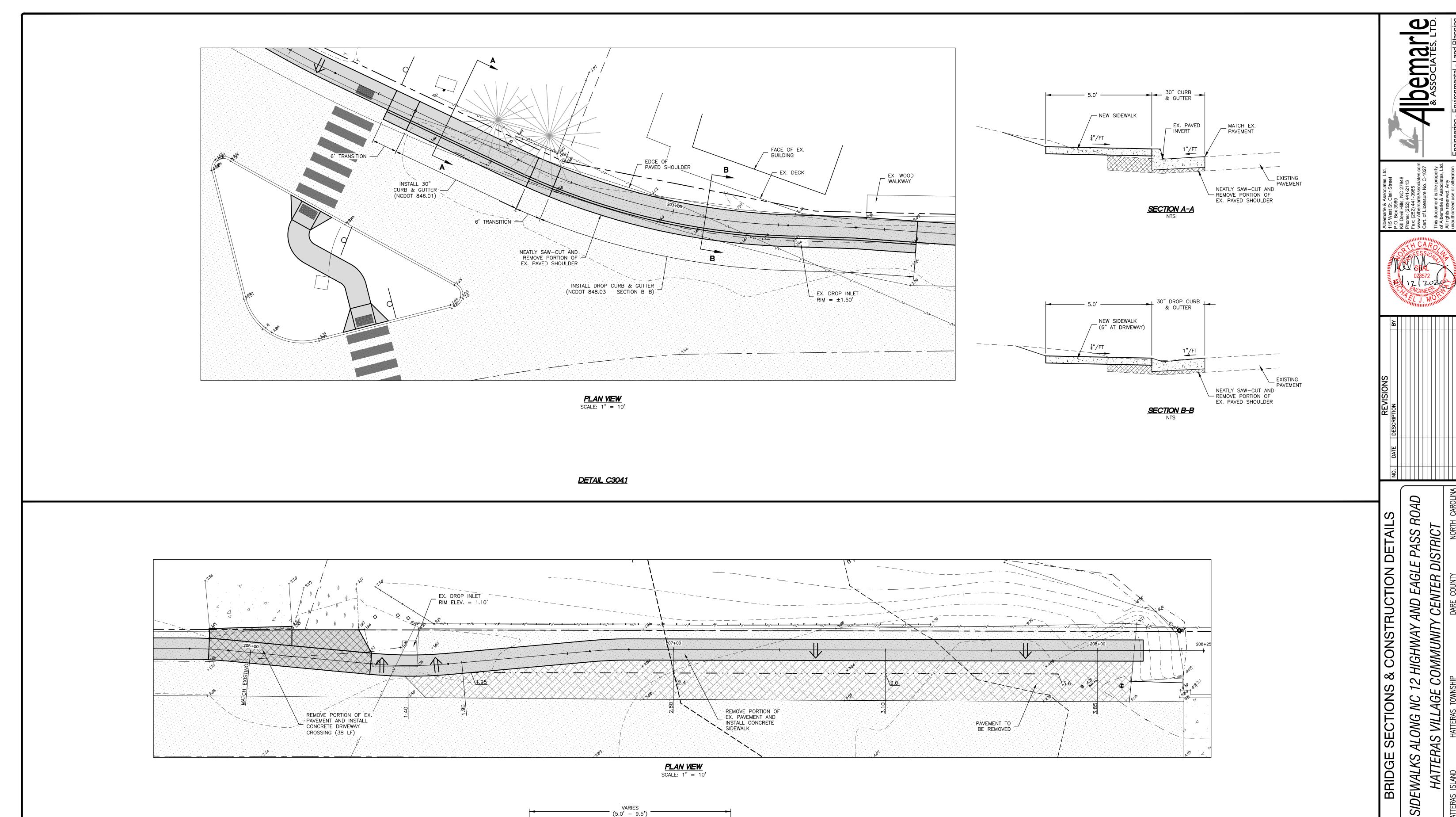
SECTION B-B

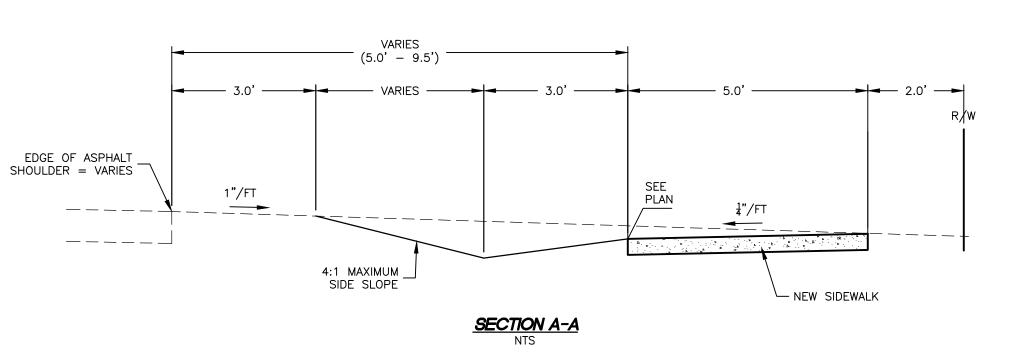
DETAIL C303.4

(IN FEET) 1 INCH = 10 FT.

DETAIL C303.5 NTS

SHOWN





<u>DETAIL C304.2</u>

(IN FEET) 1 INCH = 10 FT.

FINAL DRAWING
FOR BIDDING
PURPOSES ONLY
(BELEASED 0118 2021)

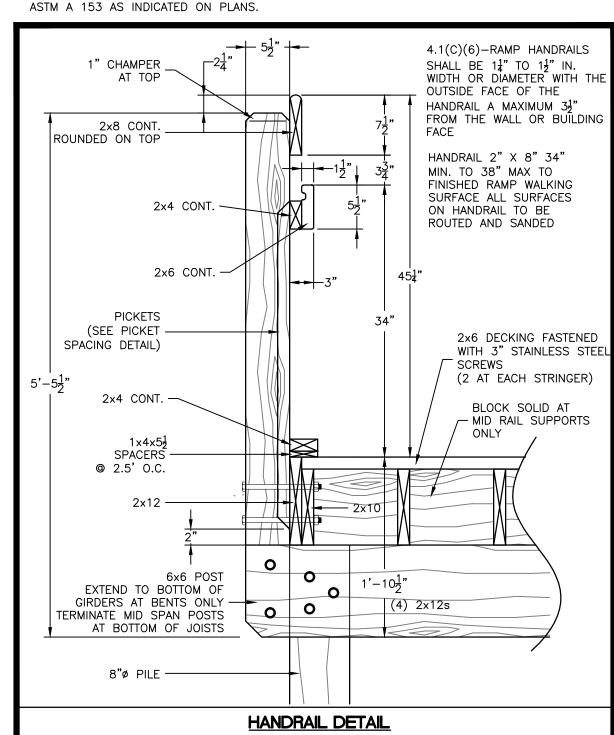
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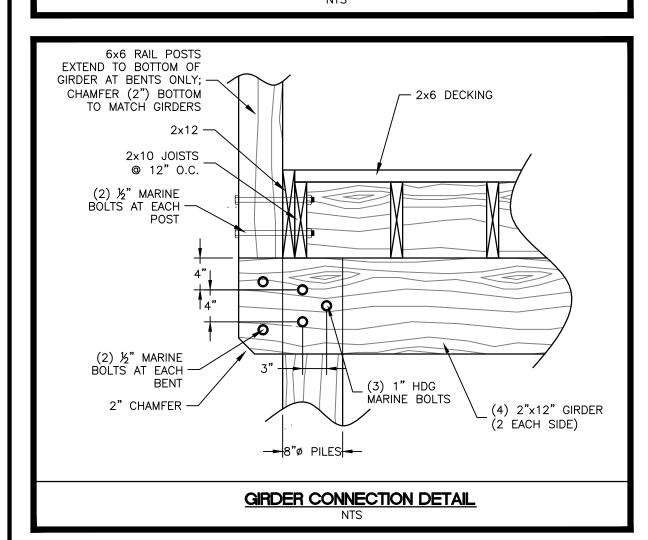
SCALE:
AS SHOWN

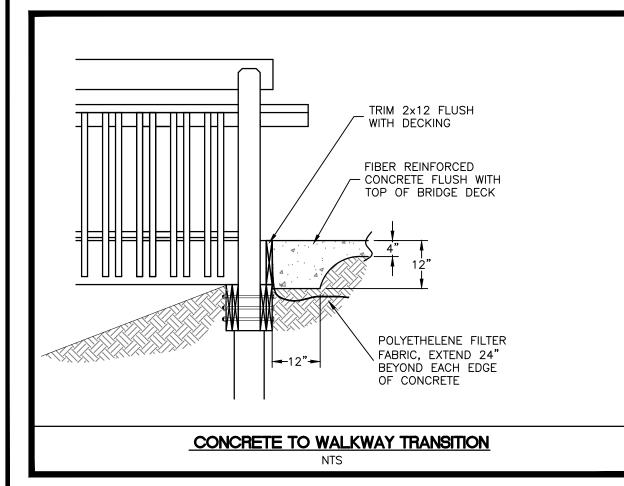
CHECKED:
CHEC

# STRUCTURAL NOTES:

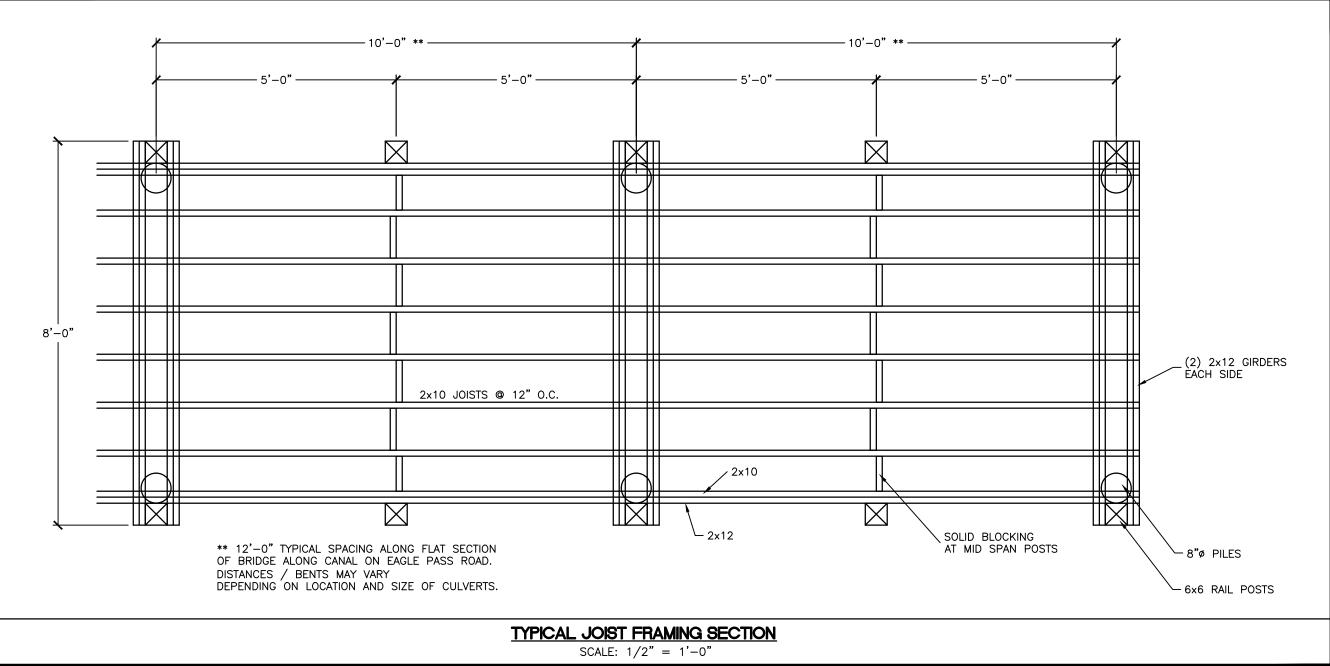
- 1. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
- 2. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES AND SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- 3. IF THE CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS OR OTHER CONDITIONS THAT PROHIBIT EXECUTION OF THE WORK AS DIRECTED IN THESE DRAWINGS, THE CONTACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 4. 8"Ø AND 6x6 TIMBER PILES SHALL BE A MINIMUM OF 2.5 CCA UC5B (8"Ø) OR UC4B (6x6) AND SHALL MEET OR EXCEED AWPA STANDARDS (C-18) FOR PRESERVATION TREATMENT AS APPLICABLE. PILES SHALL ACHIEVE A MINIMUM OF 10' PENETRATION INTO SUITABLE SUBSURFACE
- 5. STRUCTURAL FRAMING SHALL BE #2 SYP, 0.6 CCA TREATMENT AS SHOWN, AND SHALL MEET OR EXCEED AWPA STANDARDS (UC4C) FOR PRESERVATION TREATMENT AS APPLICABLE.
- 6. DECKING, HANDRAILS AND PICKETS SHALL BE #1 SYP, TREATMENT AS SHOWN, AND SHALL MEET OR EXCEED AWPA STANDARDS (UC4B) FOR PRESERVATION TREATMENT AS APPLICABLE, 0.6 ACQ OR ACZA, NO CCA.
- 7. ALL CROSS BRACING SHALL BE #2 GRADE MATERIAL WITH A MINIMUM OF 2.5 CCA UC5B AND SECURED WITH (2) 3/4 HDG BOLTS IN PRE-DRILLED HOLES.
- 3. ALL FASTENERS SHALL BE STAINLESS STEEL OR HOT-DIP ZINC COATED IN ACCORDANCE WITH ASTM A 153 AS INDICATED ON PLANS.

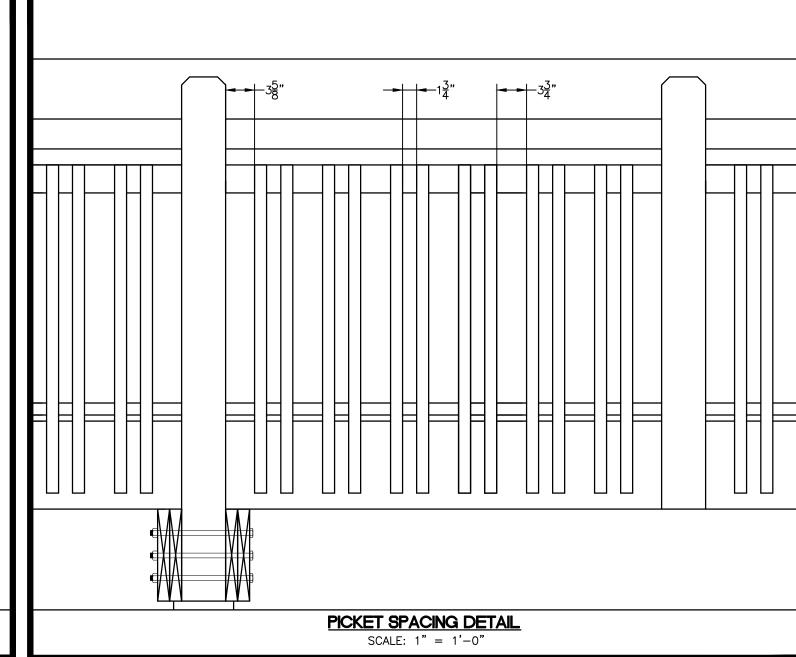


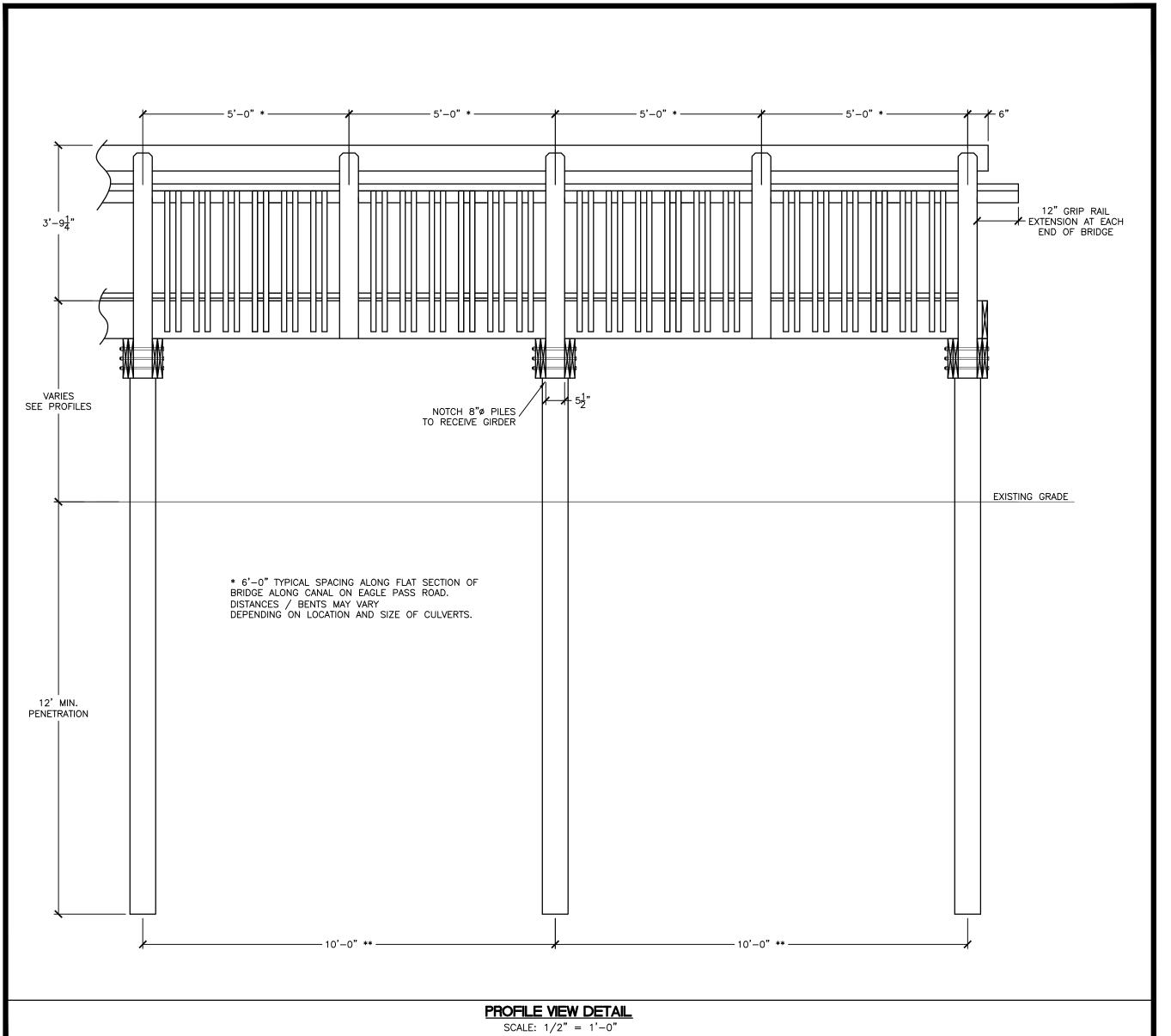


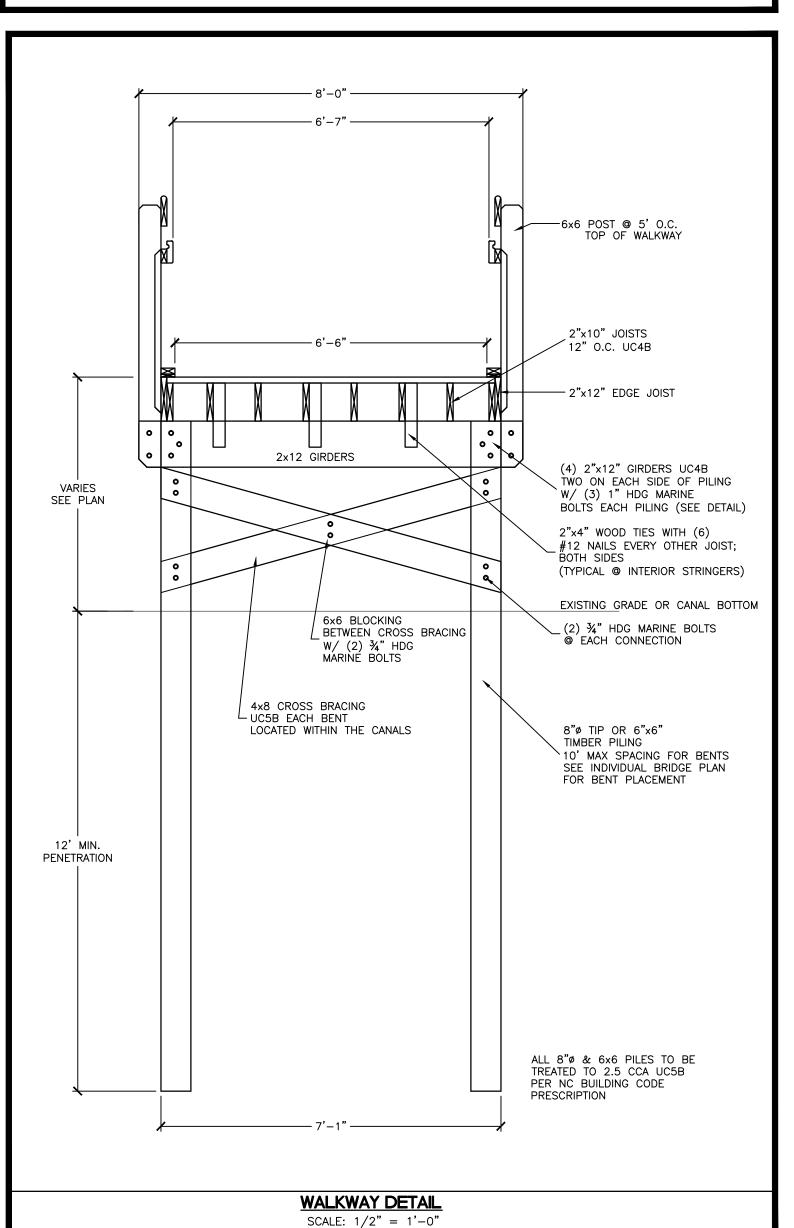


# FINAL DRAWING FOR BIDDING PURPOSES ONLY (RELEASED 01.18.2021)



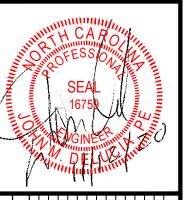


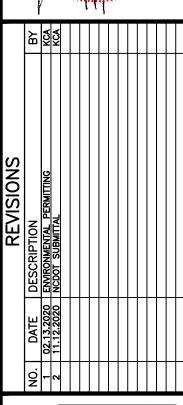






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GE SECTIONS & CONSTRUCTION DETAILS

KS ALONG NC 12 HIGHWAY AND EAGLE PASS ROA

TERAS VILLAGE COMMUNITY CENTER DISTRICT

SURVEYED: N/A

SURVEYED: N/A

DESIGNED: MJM

CHECKED: MJM

FILE: 083438

C702
PROJ. NO. 08343B

