

October 20, 2023

Ederlee Dr & Holly Springs Rd Sidewalk
Bid # 354-TR24-16
Project No. ST-3201
Addendum No. 2

This addendum forms a part of and modifies the Bid Documents dated October 3, 2023.

Question 1: There is no line item for “Concrete Washout”

Answer 1: Concrete Washout Areas shall be secured by the contractor off site. There will be no direct payment for the Concrete Washout Areas as this work will be considered incidental to the various bid items indicated in the Itemized Proposal. Section 21000 has been amended to include a section for this and included as Attachment #1.

Question 2: Will clearing be required for each location and if so, does the cost need to be included in the comprehensive grading line item?

Answer 2: Clearing will be required for both areas but should be minimized. Section 03000 states “if no line item is provided for clearing and grubbing, it shall be considered incidental to the project”.

Question 3: Will the cable vault across from Giovanni Court be moved before the project is awarded?

Answer 3: The vault will not be moved prior to construction; the sidewalk alignment can be shifted within the existing right-of-way to avoid conflict with the vault.

Question 4: Will the HOA landscapers move their irrigation soaking line as well as various sprinkler heads along Ederlee Drive?

Answer 4: The HOA has stated irrigation has been relocated or disconnected. The Town will coordinate with the HOA during the pre-construction phase and construction phase.

Question 5: Are we clearing and grading to the ROW, white stake, or TCE?

Answer 5: Contractor will be required to stake or flag out clearing limits. Clearing limits must be reviewed and approved by the Engineer prior to beginning erosion control or clearing operations.

Question 6: Please clarify accessible pedestrian pathway note (Avenue of the Estates) – is there a TCE outside of existing R/W for accessible pathway to be installed?

Answer 6: Per the plans, the Contractor shall construct an accessible curb ramp in the existing sidewalk. The Contractor shall provide pedestrian detours in accordance with the MUTCD for areas of existing sidewalk that must be closed during construction.

Question 7: Is there a DBE % requirement for this project?

Answer 7: The Town does not have a predetermined goal for DBE participation, however the Contractor will make a good faith effort to utilize minority business enterprises (MBEs) per NC General Statutes Section 143-128, et seq. as Subcontractors for the Work.

All other terms and conditions of the bid are in full force and effect.



Lara MacAulay, PE – Project Manager, Town of Cary

10/20/2023

Date of Issuance

CERTIFICATION

I HEREBY CERTIFY THAT THE SPECIFICATIONS AND PLAN REVISIONS
CONTAINED HEREIN WERE PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION.

SIGNED, SEALED, AND DATED THIS 20th DAY OF OCTOBER 2023.



Seal

BY *Lara MacAulay*
Lara MacAulay, PE

SECTION 21000
SPECIAL CONSTRUCTION
(August 2023)

PART 1 - GENERAL/SITE PREPARATION:

- A. The Contractor shall verify any tree or landscaping item to be preserved with the Engineer prior to performing the work. Contractor shall provide notice to the Engineer for any of these items that cannot be preserved as noted on the construction drawings prior to removal.
- B. The contractor shall accept the actual conditions at the site and perform the work specified without additional compensation for possible variation from grades and conditions shown whether surface or subsurface, except as provided for by the Contract Documents. If existing conditions are at variance with the drawings, the Engineer shall be notified before proceeding with the work, and adjustments shall be made only as directed by the Engineer.
- C. All construction shall conform to the most recently adopted edition of the Town of Cary Standard Specifications and Details, the NCDOT Standard Specifications, NCDOT Roadway Standard Drawings, Plan Details and the specifications contained in this entire project manual. The most recent Town of Cary Standard Specifications and Detail Drawings are effective July 1, 2023. The 2018 NCDOT Standard Specifications and Roadway Standard Drawings shall be used for this project.
- D. Open burning is not permitted on any portion of the right-of-way limits established for this project. Do not burn the clearing, grubbing or demolition debris designated for disposal and generated from the project at locations within the project limits, off the project limits or at any waste or borrow sites in this county. Dispose of the clearing, grubbing and demolition debris by means other than burning, according to state or local rules and regulations.
- E. Subsurface information is not available on this project. The Contractor shall make his own interpretations of all subsurface conditions.
- F. Prior to construction of all concrete wheelchair ramps, as shown on the construction plans, the Contractor shall coordinate with Town of Cary and NCDOT to hold an on-site field meeting with all personnel to review proposed wheelchair ramp details and methods.
- G. Traffic control for bicyclists, pedestrians and motorists shall be provided on each street by the Contractor in strict conformance with NCDOT Supplement to the MUTCD, the MUTCD or as directed by the Engineer. No work shall begin on any street without the proper traffic control measures in place.
- H. The Contractor shall be responsible for maintaining traffic in a safe and efficient manner at all work sites. Town of Cary ordinances involving the time of day a

Contractor may work shall be observed. The Contractor shall not narrow or close any lane of traffic on all roadways, between the hours of 6:00 a.m. through 9:00 a.m. and 4:00 p.m. through 7:00 p.m., Monday through Friday. Work hours will be limited to 9:00 a.m. to 4:00 p.m. Monday through Friday. Work on weekends will be allowed on a case-by-case basis with request to work at least one calendar week in advance in writing to the Engineer.

- I. For all roadways, the Contractor shall not install more than one lane closure in any one direction unless otherwise noted in the work zone traffic management plans or phasing.
- J. No adjustment in compensation shall be made due to any variations in the price for any "fuel" or any other additives during the life of the project.
- K. Contractor is responsible for coordinating all utility relocation work whether shown in the plans or not with the appropriate utility company. This requirement includes all traffic signalized areas affected by construction. There will be no direct payment for this work as it will be considered incidental to the various bid items indicated in the Itemized Proposal.
- L. Contractor shall be responsible for coordinating any private utility adjustments needed for widening, sidewalk, multi-use trails, milling and resurfacing. There will be no separate payment for private utility coordination efforts.
- M. Prior to performing work, the Contractor shall contact the One Call Center locating service at (800) 632-4949 and/or the affected local utility for immediate location of all underground utilities in the vicinity of each work location.
- N. At each work location, Contractor shall identify excavation locations by means of pre-marking with white paint, flags, or stakes or provide the One Call Center a specific written description of the location in the locate request. Contractor shall differentiate on locate requests active work areas. There will be no direct payment for this work as it will be considered incidental to the various bid items indicated in the Itemized Proposal.
- O. The Contractor's attention is called to the existence of underground utilities and structures, limited space on aerial facilities, and other obstructions within the project limits.
- P. The Contractor is advised to perform a field check of all physical conditions prior to submitting his cost proposal and to exercise extreme caution during construction. Neither the Town of Cary nor the State of North Carolina will assume any responsibility or honor any claims due to costs incurred to the Contractor as a result of damage to existing facilities.
- Q. The Town of Cary will under no circumstances be responsible for any damages incurred or experienced by one Contractor or Utility Owner as a result of the

presence and operations of other contractors or Utility Owners working within or adjacent to the limits of the same project

- R. The Contractor shall notify Town of Cary Public Works at (919) 469-4090 before adjusting or relocating any of the utilities including sewer manhole. Contractor shall also coordinate all work herein with the Project Inspector.
- S. Contractor shall maintain pedestrian access and all devices related to providing an accessible route at all times as stated and/or shown in the Transportation Management Plans. There will be no direct payment for this work as it will be considered incidental to the line item "Temporary Traffic Control."
- T. All landscape work, permanent lawn seeding and mulching and sodding work listed in the Itemized Proposal shall be performed by a North Carolina Licensed Landscape Contractor. Approved vendors may be found online at: <http://www.nclcrb.org/> or by calling (919) 266-8070. Payment for this work shall be included in the line item for **Permanent Lawn Sod**. The contractor shall refer to the construction plans for each location.
- U. The Contractor shall coordinate with the Engineer to verify all final landscaping and sodding types and irrigation reconnections by the property owner prior to ordering and scheduling landscape work and final seeding and mulching work. **Permanent Lawn Sod** shall be made under the contract unit bid price per square yard and include, but not limited to, purchasing of sod, installing sod, watering sod for initial establishment and one year warranty.

PART 2 - EARTHWORK:

- A. **"Comprehensive Grading"** shall be made under the contract unit price bid per lump sum item designated on the Itemized Proposal and shall be in accordance with these Contract Documents, the construction drawings and the Town of Cary Standard Specifications and Details. Unit price and payments shall be full compensation for all work in accordance within this Section 21000 and the requirements of Section 4000 for Unclassified Excavation, Embankment, Undercut Excavation and Borrow Excavation.
- B. **"Comprehensive Grading"** shall also include but not be limited to the removal and disposal of drainage structures, pipe end walls, pipe headwalls, flared end sections, pipe collars, storm drainage pipe, sub drain pipe, under drains, abandoned utility lines, plugging abandoned utility lines, sign foundations, abandoned utility lines, concrete driveway aprons, concrete steps, abandoned duct banks for utilities, concrete covers, removal of rock for construction, concrete sidewalk, concrete curb, concrete curb and gutter, concrete wheelchair ramps, concrete traffic islands, concrete foundations, concrete slope protection, rip-rap slope protection, traffic signal CCTV/ITSS foundations, traffic signal cabinet foundations, masonry and concrete structures, retaining walls, removal and disposal of existing driveway materials, removal and disposal of asphalt trails and asphalt pavement, fine grading

for all components of the project, excavation, undercut, stockpiling and replacing topsoil, removal and disposal of masonry and foundations, furnishing waste sites, furnishing borrow sources, providing borrow, providing shoulder borrow, grading shoulders, shoulder reconstruction, drainage ditch excavation, grading for positive drainage in existing ditch lines, site restoration of waste or staging areas, grading berms, compaction, equipment, labor, trucking, hauling, landfill fees, permits and/or any certifications to satisfactorily complete the work.

PART 3 - ASPHALT:

- A. No adjustment in compensation shall be made due to any variation in the price for any "Asphalt Binder for Plant Mix" or any other additives during the life of the project. There shall be no separate payment of "Asphalt Binder for Plant Mix" as it is incidental to the project.
- B. Plans make reference to areas where removal and replacement of existing asphalt may be needed to do construction of new curb and gutter adjacent to existing asphalt. Engineer and Contractor will review the side after completion of curb and gutter to determine if this work is needed.

PART 4 - CONCRETE:

- A. All concrete on this shall be minimum NCDOT Class "B" Concrete meeting the requirements of Division 10 and of the latest version of the NCDOT Standard Specifications and Sections 06000. Where a higher strength Class of Concrete or more stringent mix design requirements are specified on the project or noted elsewhere in the plans or contract, the more stringent mix design with higher class of concrete shall govern.
- B. Payment for **Concrete Sidewalk, 5' Wide, 4"** shall be at the contact unit price per linear foot and shall be full compensation for all labor, equipment, materials and incidentals necessary to form sidewalk, install new concrete sidewalk, joints, as well as any undercut or soil stabilization needed to support new sidewalk.
- C. All "**Concrete Wheelchair Ramps with Detectable Warning Domes**" including all NCDOT detail standard drawing type ramps, shall be constructed of Portland Cement Concrete meeting the requirements of this Section 21000 herein. All drop curb widths for "Concrete Wheelchair Ramps with Detectable Warning Domes" shall be a minimum of 5'-0" width unless otherwise shown in the construction plans. All curb ramps including ramps shown on NCDOT roadway standard detail drawings included in the construction plans shall be plain color concrete with black color contrasting detectable warning domes.
- D. The Contractor shall provide 6"x12" header curb at various areas shown on the plans. Header curb shall be formed and poured monolithically with the sidewalk or wheelchair ramp pour. Provide construction joints in the header curb consistent with the Town of Cary details and NCDOT Roadway Standard Drawings. There will be

no direct payment for 6"x12" header curb as it will be considered incidental to the various concrete items in the Itemized Bid proposal.

- E. Payment for **"Remove & Replace Concrete Wheelchair Ramps"** shall be at the contract unit price per each and shall be full and complete compensation for all labor, equipment, materials and incidentals necessary to remove and properly dispose of all existing concrete materials including, but not limited to existing concrete curb and gutter, existing concrete sidewalk and concrete wheelchair ramps, furnishing and installing new "Concrete Wheelchair Ramps with Detectable Warning Domes", depressed new curb and gutter as shown on the specific detail drawing indicated on the construction drawings, providing aggregate base course or asphalt concrete under the depressed curb and gutter or wheelchair ramp, expansion joints, control joints, detectable warning domes, contrasting black concrete for curb ramps, concrete ramp landings as dimensioned in detail drawings, 6"x12" concrete curb (where applicable), new depressed curb and gutter and all excavation, backfilling and grading required to satisfactorily complete the work as shown in the construction and detail drawings.
- F. The construction drawings will advise to the type of "Concrete Wheelchair Ramps with Detectable Warning Domes" to be incorporated into the satisfactory completion of the work. All items shown onto each ramp detail drawings specified for each location shall be considered full and complete compensation for "Concrete Wheelchair Ramps with Detectable Warning Domes."
- G. The Contractor shall install "truncated dome warning materials" or "detectable warning strips" flush with the proposed sidewalk grade as shown on the plans. All warning dome materials shall be black in color and shall contrast to the ramp surface according to the most recently adopted version of the NCDOT Roadway Standard Drawings. There will be no direct payment for this work as it will be considered incidental to the various contract items in the bid proposal.
- H. Use material for detectable warning (Detectable Warning Domes) systems as shown in the construction plans and various details. Material specifications must be stated in the Manufacturers Type 3 Certification and all Detectable Warning systems must be on the NCDOT Approved Products List. Prior to ordering materials, provide Engineer this information via submittal in accordance with Section 02000 and Article 106-3 of the NCDOT "Standard Specifications for Roads and Structures".
- I. Only one material type and manufacturer for detectable warnings (truncated domes) will be permitted on this project.
- J. The Contractor shall provide detectable warning dome materials free of gaps along radii as shown on the plans.
- K. Prior to forming concrete flatwork areas; where practical, the Contractor shall proof roll subgrade areas and allow the Town's Geotechnical Representative to make

recommendations for undercut and remedial measures. Coordinate all proof rolling with the Town Project Representative and Owner's representative on site.

- L. The Contractor shall cordon off all newly poured concrete areas and protect the completed work in accordance with Section 846-3(F) Opening to Traffic of the NCDOT "Standard Specifications for Roads and Structures".
- M. All concrete form work and sidewalk alignment shall be approved by the Town Project Inspector prior to placement of concrete.
- N. All final grading work shall be approved by the Engineer prior to placement of groundcover work. Contractor shall coordinate this requirement herein with the Engineer.
- O. Contractor shall provide both verbal and written notification to the property owner with a copy to the Engineer at least three (3) calendar work days in advance of any driveway/access interruption. The written notification shall provide a site contractor representative contact name, phone number, a location where citizens may park vehicles or place trash collection bins during the driveway closure and the date/time the property owner can expect to resume use of the driveway. There will be no direct payment for this work as it will be considered incidental to the various bid items indicated in the Itemized Proposal.
- P. All formwork pins, silt fencing posts, rebar or other vertical items where worker or public exposure to impalement hazards may occur on this project shall be guarded OSHA approved mushroom type or equivalent safety end caps. This work will be considered incidental to the various bid items indicated in the Itemized Proposal and no direct payment will be made.
- Q. Contractor shall seal all contraction and expansion joints, for all concrete curb and gutter, driveways, sidewalks, islands, curb, driveway, transitional sections at islands, monolithic islands, concrete covers, slope protection, bus stop pads, concrete multi-use paths, aprons and wheelchair ramps on all streets on this project (Both Town and NCDOT Maintained) shall be sealed according to the January 2018 NCDOT "Standard Specifications for Roads and Structures" Sections 825-10 and 846-3. Joint sealer materials shall meet the minimum requirements of Article 1028 of the latest edition of the NCDOT "Standard Specifications for Roads and Structures".

PART 5 - TEMPORARY TRAFFIC CONTROL:

- A. The Contractor shall adhere to all traffic control lane closure restrictions and guidelines set forth in the NCDOT Encroachment Agreement for work along the following state (NCDOT) maintained roadways for this project: **(1)** Ederlee Drive. Refer to the Encroachment Agreement in Section 22000-Appendix and the construction plans for additional details and requirements.

- B. At all sidewalk locations where existing sidewalk walking trails, paths or wheelchair ramps will be altered or affected by this project, prior to work, the Contractor shall install temporary wheelchair ramps, cones, barricades, drums or offsite detour routing and delineation to provide an ADA accessible sidewalk detour route as shown on the traffic control plans and in accordance with the most current edition of the MUTCD Part 6 – Temporary Traffic Control.
- C. Proposed work zone signs (excluding barricade mounted) may be portable in paved areas, all other signage shall be stationary mounted.
- D. Operate equipment and conduct operations in the same direction as the flow of traffic. Do not cross any medians with equipment, except at properly designated locations.
- E. Do not station equipment including any traffic control devices on any sidewalk where pedestrians are to be maintained or medians unless otherwise approved by the Engineer or shown in plans.
- F. The Contractor shall furnish, install, maintain, temporarily cover and uncover, relocated and remove stationary and barricade mounted work zone signs in accordance with Section 1110 of the most current version of the NCDOT “Standard Specifications for Roads and Structures.”
- G. Two way traffic shall be maintained at all times. Full road closures will not be allowed.

PART 7- NCDOT ENCROACHMENT AGREEMENTS:

- A. Prior to construction of all improvements on state-maintained North Carolina Department of Transportation (NCDOT) roadways, the Contractor shall coordinate with Town of Cary and the NCDOT District Engineer’s Office to hold an on-site field meeting to review proposed improvements which shall be constructed to NCDOT Roadway Standard Drawings. Contact information for the NCDOT District Engineer’s Office is located in the encroachment agreements within Section 22000.
- B. Contractor shall comply with all requirements of encroachment agreements between NCDOT and the Town of Cary on all NCDOT owned roads (Ederlee Drive).
- C. The Contractor will be responsible for coordinating all inspections and notifications with the NCDOT District Engineer’s Office as required by the encroachment agreements.
- D. The Contractor shall coordinate with the Town and NCDOT to close out all Encroachment Agreements. The closing out of all NCDOT Encroachment Agreements shall be included in Final completion of the project and overall contract time.

PART 8: GUARDRAIL

- A. The contractor will be required to construct and maintain new permanent "Steel Beam Guardrail" and "Guardrail End Unit TL-3" and "Guardrail End Unit CAT-1" with offset blocking, hardware, delineation rail elements, and zinc rich repair paint as shown on the construction plans, the NCDOT January 2018 Standard Specifications, or as directed by the Engineer.
- B. The method of measurement for "Steel Beam Guardrail" will be measured and paid for by linear foot of "Steel Beam Guardrail" satisfactorily constructed and accepted as established in Section 862 of the NCDOT Standard Specifications.
- C. The method of measurement for "Guardrail End Unit TL-3" and "Guardrail End Unit CAT-1" will be measured and paid for by each satisfactorily constructed and accepted as established in Section 862 of the NCDOT Standard Specifications.

PART 9: SIGNING

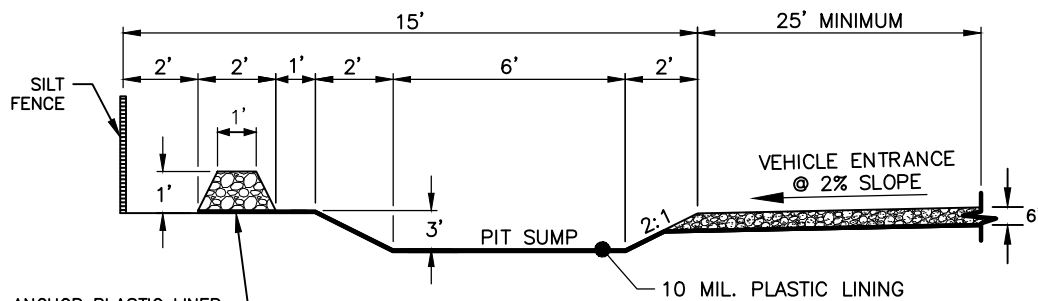
- A. All work associated with the furnishing, installing, and removing of traffic sign systems shall be performed in accordance with these contract documents and the latest publication of the NC DOT "Standard Specifications for Roads and Structures" and "Roadway Standard Drawings". All signs must comply with the Manual on Uniform Traffic Control Devices (MUTCD).
- B. Use 3-lb galvanized steel U-channel supports for all sign applications. Hardware must pass through post and be secured with locking washer and nut on the backside of the post. Metallic shim is required between u-channel post and sign. Nylon washer shall be used on the front side of the sign in accordance with NC DOT Standard Detail 903.20.
- C. The method of measurement for "Post Mounted Traffic Sign", "Secondary / Additional Sign Panel" and "Relocate Sign" will be measured and paid for by each.

PART 10: WASTE, DEBRIS AND CONCRETE TRUCK WASHOUT AREAS

- A. All waste and debris generated by the work under this contract shall be hauled to a public or commercially approved waste site.
- B. Any waste site proposed for use, shall be permitted by the Solid Waste Management Division of the North Carolina Department of Environment and Natural Resources with a copy of the license/permit posted at the facility.
- C. The Contractor shall provide a copy of all proposed commercial waste sites' NCDENR Permit or License and any other applicable permits or regulatory licenses at the Preconstruction Conference.
- D. Following receipt of the permit and licenses, the Engineer and Inspector may inspect the Contractor's proposed commercial/public waste site prior to use. During the life of the project, the Owner and Engineer reserves the right to cease hauling operations

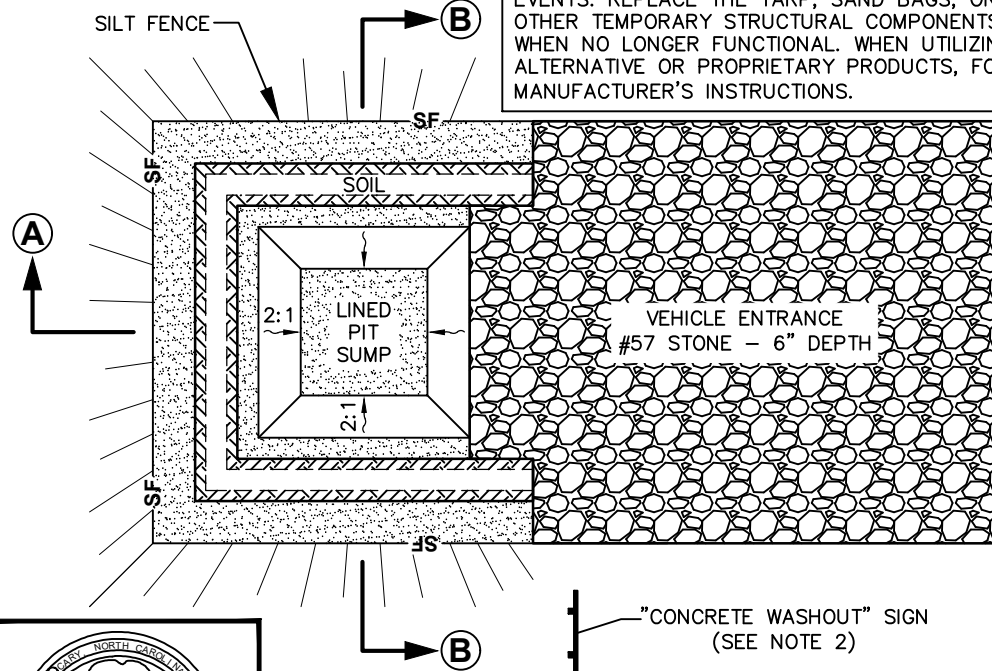
and/or disapprove hauling from the Town project to an unauthorized NCDENR waste site or site with a mining permit number issued by NCDENR.

- E. Waste will be considered to be all excavated materials that are not utilized in the construction of the project. Debris is all undesirable material encountered on the project. All waste and debris shall be disposed according to local, state and federal laws. There shall be no open burning of any construction debris or trash on the project site.
- F. Contractor shall provide "Concrete Truck Washout Areas" as part of the project. The Contractor shall follow the notes and detail drawing provided in the construction plans including installation, maintenance, removal and site restoration. There will be no direct payment for the work required to install, maintain or remove "Concrete Truck Washout Areas" as this work as it will be considered incidental to the various bid items indicated in the Itemized Proposal.
- G. Payment: There will be no direct payment for the work described within this Section, as it will be considered incidental to the various bid items indicated in the Itemized Proposal.



SECTION A-A

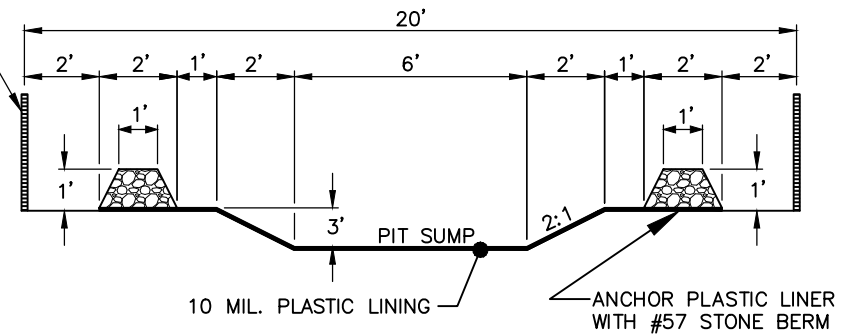
MAINTENANCE:
REMOVE LEAVINGS FROM THE WASHOUT WHEN AT APPROXIMATELY 75% CAPACITY TO LIMIT OVERFLOW EVENTS. REPLACE THE TARP, SAND BAGS, OR OTHER TEMPORARY STRUCTURAL COMPONENTS WHEN NO LONGER FUNCTIONAL. WHEN UTILIZING ALTERNATIVE OR PROPRIETARY PRODUCTS, FOLLOW MANUFACTURER'S INSTRUCTIONS.



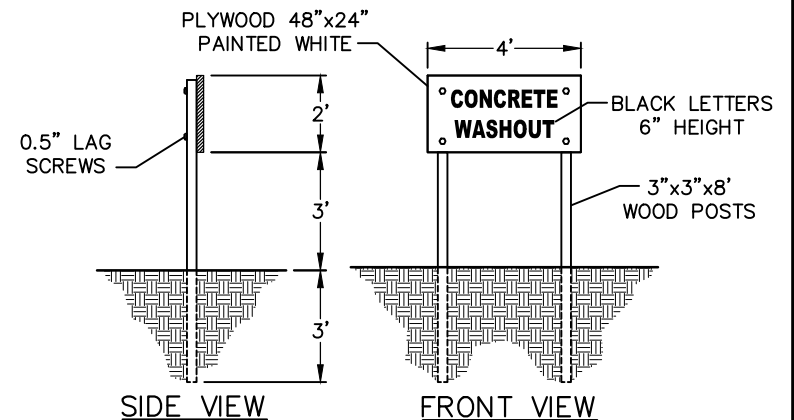
PLAN VIEW

NOTES:

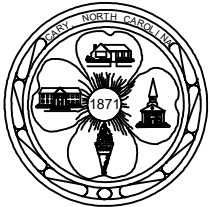
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE "CONCRETE WASHOUT" SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. PIT CAPACITY IS MINIMUM OF 6 CUBIC FEET PER 10 CUBIC YARDS OF CONCRETE.
4. INSTALL TEMPORARY CONCRETE WASHOUTS PER CARY REQUIREMENTS, WHERE APPLICABLE. IF AN ALTERNATE METHOD OR PRODUCT IS TO BE USED, CONTACT A CARY STORMWATER FIELD SERVICES TECHNICIAN.



SECTION B-B



"CONCRETE WASHOUT" SIGN DETAILS

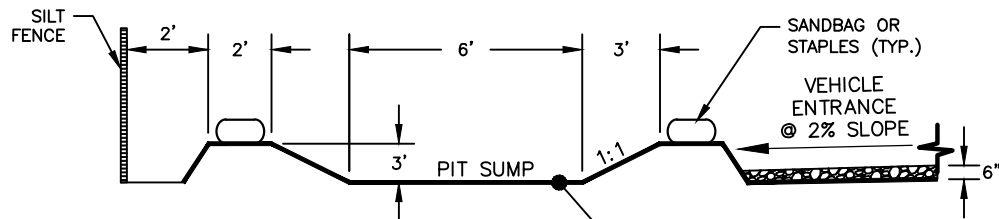


EFFECTIVE: 07/01/23

CONCRETE WASHOUT - BELOW GRADE

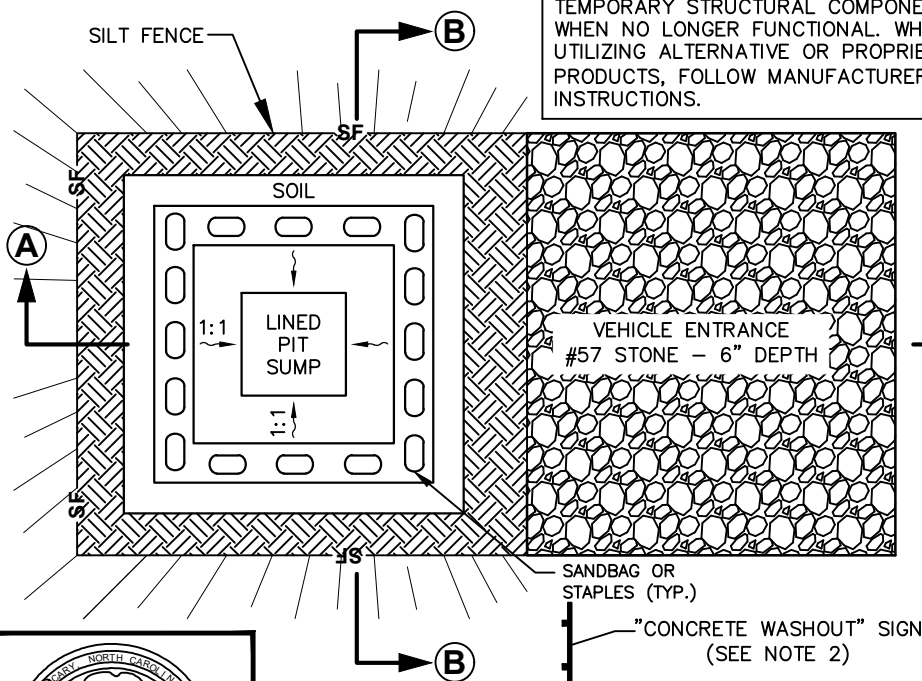
DETAIL No.

4000.28
SHEET 1 OF 2



SECTION A-A

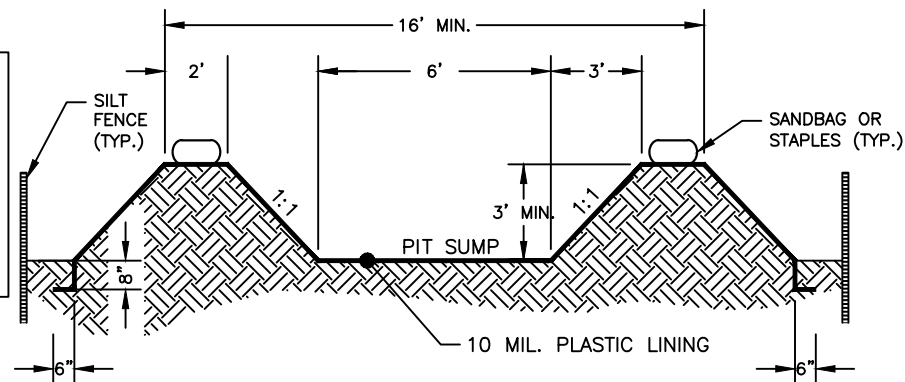
MAINTENANCE:
 REMOVE LEAVINGS FROM THE WASHOUT WHEN AT APPROXIMATELY 75% CAPACITY TO LIMIT OVERFLOW EVENTS. REPLACE THE TARP, SAND BAGS, OR OTHER TEMPORARY STRUCTURAL COMPONENTS WHEN NO LONGER FUNCTIONAL. WHEN UTILIZING ALTERNATIVE OR PROPRIETARY PRODUCTS, FOLLOW MANUFACTURER'S INSTRUCTIONS.



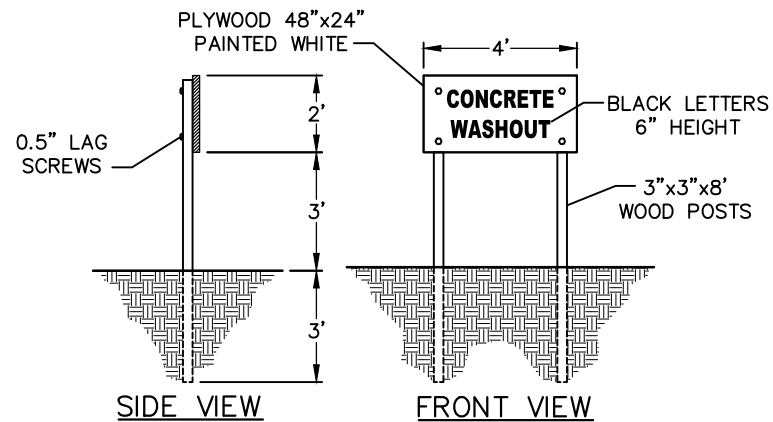
PLAN VIEW

NOTES:

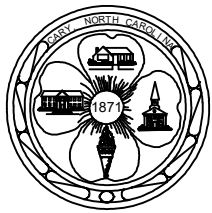
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3. PIT CAPACITY IS MINIMUM OF 6 CUBIC FEET PER 10 CUBIC YARDS OF CONCRETE.
4. INSTALL TEMPORARY CONCRETE WASHOUTS PER CARY REQUIREMENTS, WHERE APPLICABLE. IF AN ALTERNATE METHOD OR PRODUCT IS TO BE USED, CONTACT A CARY STORMWATER FIELD SERVICES TECHNICIAN.



SECTION B-B



"CONCRETE WASHOUT" SIGN DETAILS



EFFECTIVE: 07/01/23

CONCRETE WASHOUT - ABOVE GRADE

DETAIL No.

4000.28
 SHEET 2 OF 2