ADDENDUM No. 03

PROJECT: **TRANSPORTATION FACILITY**
LEE COUNTY SCHOOLS
SANFORD, NORTH CAROLINA
CRA PROJECT NO: **2514**
DATE: **07/13/2026**

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MODIFICATIONS TO THE CONTRACT DOCUMENTS FOR THE ABOVE-NAMED PROJECT SHALL BE MADE AS DESCRIBED BELOW AND SHALL BE INCLUDED IN THE BID AMOUNTS:

A. **GENERAL**

1. Refer to attached document, **2514 LCS TF Questions_rev02**.
2. Please be advised that the Civil Drawings that were issued with Addendum 02 were only included because a question was asked about the driveway permit. The permit application was provided for information only. **THE CIVIL DRAWINGS ISSUED WITH THE ORIGINAL BID PACKAGE DATED 2026.06.25 ARE THE CORRECT DOCUMENTS TO USE FOR BIDDING PURPOSES, WITH THE EXCEPTIO OF THOSE ISSUED WITH THIS ADDENDUM WHICH SHOW REVISIONS DUE TO COMMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.**
3. **2026-07-13 LCS Narrative.** This document describes elements related to RFI questions and clarifications.

B. **SPECIFICATIONS**

1. **Specification Section: 004113 – BID FORM – SINGLE PRIME CONTRACT** This section has been updated to include UNIT PRICE ALLOWANCES.
2. **Specification Section: 012110 – SIREWORK ALLOWANCES** This section is being added to the Bid Documents.
3. **Specification Section: 312000 – EARTHWORK** This section was unintentionally omitted from the original Bid Documents.

C. **DRAWINGS**

1. **Sheet No: C-000 – Cover Sheet** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
2. **Sheet No: C-200 – Erosion Control, Phase I** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
3. **Sheet No: C-201 – Erosion Control, Phase II** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
4. **Sheet No: C-202 – Erosion Control, Phase III** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.

5. **Sheet No: C-502 – Storm Sewer Profiles** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
6. **Sheet No: C-600 – Notes and Details** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
7. **Sheet No: C-608 – Notes and Details** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
8. **Sheet No: C-609 – Notes and Details** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
9. **Sheet No: C-610 – Notes and Details** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
10. **Sheet No: C-611 – Notes and Details** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
11. **Sheet No: C-612 – Notes and Details** This sheet was revised to in response to review comments from the local Authority Having Jurisdiction. Rev. 02.
12. **Sheet No: S102 – Slab Plan** This sheet was revised to show pit details for the in-ground lifts. Rev. 01

END OF ADDENDUM

Attachments: Noted in GENERAL section above. 2 Documents.

Specification Sections: 004113, 012110, 312000. 3 Sections

Drawings: C-100, C-200, C-201, C-202, C-502, C-600, C-68, C-609, C-610, C-611, C-612, S102. 12 Sheets

QUESTION 1

The Metal Building Specs read "Available Manufacturers: Subject to compliance with requirements, available manufacturers whose products may be incorporated in the Work include, but are not limited to, the following: "

If the manufacturers we typically use are not listed, do we need to submit substitution requests for our manufacturers since it says "but not limited to", as long as they meet the qualification requirements?

ANSWER 1

No, a substitution request is not required for a manufacturer not listed so long as the specification requirements can be met in any section that states "but are not limited to."

QUESTION 2

The specs say tile is being used in the project however I can't seem to find it on the Finish Schedules or in the plans in general. Could you clarify?

ANSWER 2

There is no tile scope in the project. Section 093013 Ceramic Tiling will be removed from the Project Manual.

QUESTION 3

I do not see a cutoff date for the submission of RFIs.

Do you have a set date for RFIs?

ANSWER 3

All RFIs must be submitted to the Architect no later than Friday, July 10, 2026, at 2:00pm EST.

QUESTION 4

We received a request from a sitework/grading company for a grading plan including the vectors. The scanned or PDF site plan doesn't work with the earthwork programs they use.

ANSWER 4

The requested information is not available for pre-bid. Once the Contract is awarded, the design team will work with the successful low bidder to accommodate reasonable requests for files common to industry standards.

QUESTION 5

Please accept this letter as our formal request to be added as an Approved Manufacturer for the Transportation Facility - Project No. 2514. We appreciate your attention to this matter and look forward to your response.

ANSWER 5

Alliance Steel Building Systems is an acceptable manufacturer so long as they can meet the requirements set forth in Section 133419 Metal Building Systems.

QUESTION 6

Could you check whether the Design Team will approve Cornerstone Buildings as an approved Manufacturer? They are Metallic Co.

ANSWER 6

Metallic Building Systems, a Conerstone Building Brand is an acceptable manufacturer so long as they can meet the requirements set forth in Section 133419 Metal Building Systems.

QUESTION 7

Do you guys have a determined duration for this project? I didn't see it in the bid docs but I could have just overlooked it.

ANSWER 7

Please refer to the Supplemental Conditions, ARTICLE 8 – TIME, which is on page 130 of the Volume 1 PDF.

QUESTION 8

I was looking over the drawings for the above referenced project and I'm having trouble locating the "200" doors. I see that there are a couple of alternates but the only one that has any doors is the Warehouse Building and the quantities don't match up.
Also, opening 214 has no material listed in the schedule, as if to be a cased opening, but comments call for card reader access, and the door type and frame type would suggest a double flush wood door opening. Again, this is a "200" door and I couldn't find it on the plans.

ANSWER 8

201 Refer to sheet A102 (Exterior Door) plan west side of MECH/STORAGE M201 leading to low roof

214 Should be 126 in FLUIDS 126 (Exterior Door), change Panel Material to HM
215 Should be 126A in FLUIDS 126 (Passage Door between rooms 126 and 125), change Panel Material to HM
216 Should be 124 in WASHBAY 124 (Passage Door between rooms 124 and 125, change Panel Material to HM

217 Should be numbered 127 in TIRE STORAGE & REPAIR 127, change Panel Material to HM

124.1 Should be 127.1, however the information is correct.
127.1 Should be 124.1, however information is correct.

119 Change Panel Material to HM
120 Door label missing in PARTS 120 on 1/A4.01 (Passage Door between 120 and 113)
122 Change Panel Type to A
123 Change Panel Material to HM
125 Change Panel Material to HM

Sheet A1002 Door and Frame Schedule Warehouse
W101 Change Panel Material to HM, Head and Jamb detail are incorrectly referenced.
W101A Change Panel Material to HM, Head and Jamb detail are incorrectly referenced.

QUESTION 9

1. E001 shows pole lighting/site lighting (Type R) in the lighting schedule as an alternate, but no info or layout that we can find. Is there a site dwg that shows this that we may not have? This is shown in the bid manual as Alt E-1

2. E001 Ltg schedule shows types "L" and "Q", but plans do not show these. Can we confirm these types are not used in the project?

3. Is there an overall list of Alternates other than the one listed in the bid manual? Ours shown on the electricals don't seem to match the manual (Ex: We show a generator alternate, bid manual does not)

4. E001 Supplemental Elec specs mentions a lightning protection system, and to refer to specs, but we cannot find any spec section for this type of system

ANSWER 9

1. **Sheet E010 shows the Site Lighting Alternate Layout which was unintentionally omitted from the Bid Documents. Refer to drawing attached to Addendum 02.**
2. **The fixtures in the Secure Storage 123.A are unlabeled. They are to be fixture 'Q'. The 'L' fixture is an undercabinet strip that is not being used on the project.**
3. **Project Manual Section 012300 - ALTERNATES has been updated to include the Electrical Items.**
4. **A lightning protection system is not required for the Project.**

QUESTION 10

On page 1 of the Instructions to Bidders, it shows that the "bids will be received by Orange County Schools (OCS)." (page 11 of the Bid Manual)

Should this read "Lee County Schools?"

ANSWER 10

Yes, PDF of Volume 1, page 11, page 1 of Section 002113-INSTRUCITON TO BIDDERS, Section A-1, A, should read "Bids will be received by Lee County Schools (LCS)…

Also, PDF of Volume 1, page 20, page 10 of Section 002113-INSTRUCITON TO BIDDERS, Section A-23, B, should read "…and managed by Lee County Schools."

QUESTION 11

We respectfully submit for your consideration a request to approve products as an accepted substitute on Transportation Facility - New Building.

Please find links below for the following supporting documentation:

Substitution Request Summary: Substitution Request - Transportation Facility - New Building.pdf

Suggested Fluid Applied Flooring Substitute for : - CastorCrete Bio Floor HDF/HDQ

Supporting Documentation:

- Substitution Submittal Package_CastorCrete BioFloor HDF_HDQ

ANSWER 11

CastorCrete Bio Floor HDF/HDQ has been approved as an acceptable substitution for products listed in 096723 - RESINOUS FLOORING.

QUESTION 12

LIFTS

1. Spec book (Section 117310) call out the following lifts:
    a) 5690 Mobile Column, Set of (4) 66,000 lb capacity
    b) 5650 Lift 2-Post Hydraulic 18,000 lb capacity
2. Are there (4) sets of mobile columns (16 columns total) as indicated on the equipment schedule on drawing Q101?
3. The notes next to the mobile columns on drawing Q101 indicate a Stertil Koni Diamond Lift , which is an in-ground lift, not a mobile column
4. The notes next to the 2 Post 12K lift on drawing Q101 indicate a Challenger EW1220 or similar , which is an in-ground lift
5. On drawing Q101 there are in-ground lifts shown in bays 1,3,5,7. Are these existing lifts, or do these need to be included in the scope of the new building?
6. Where are the (4) sets of mobile columns and the new 18K 2-Post lift scheduled to go in the new shop?

RE-LOCATION OF EXISTING EQUIPMENT

7. Where can we find the full list of equipment being moved from the existing shop to the new shop? Section 117900 mentions section 11000 for equipment list and layout and section 11700 for owner furnished equipment but these sections do not exist int he spec book.
8. A lot of the equipment on drawing Q101 has the CF/CI designation. Is all of this equipment new and to be supplied and installed by the contractor?
9. How far is the old facility from the new facility?
10. Are there any vehicle lifts coming over from the old shop to the new?

AIR/LUBRICATION/WASTE FLUIDS

11. Drawing Q101 mentions anti-freeze going to the bays. However, the piping plan (PP101) does not show an anti-freeze line going to the bays.
12. Will the waste oil be directly evacuated to a 500 gallon tank in the fluid room, or will there be a pump located somewhere in the main shop with piping running back to the fluids room?

GENERAL

13. In section 11 and the other spec sections (shelving, storage, air, lube, exhaust) if drawings do not match the spec book, which prevails?
14. Where is the existing facility and do you have any pictures you can share?
15. Where can we find "approved equal" documentation requirements in the spec book?
16. For the Waste Oil, the spec book and drawings show a 500 gallon tank, but the specs also mention a 55 Gallon drum. What is this drum for and where will it be located in the shop?
17. For the Chassis Grease there are no specs for the 280 gallon cube tank mentioned on sheet 247150-1. Instead, it mentions a 120# drum on sheet 247150-23. On the drawing PP101 it appears to show a tank. Which is correct?

ANSWER 12

LIFTS

1. **Q101 takes precedence.**
2. **There are no mobile columns. The Equipment List has been revised and is attached to Addendum 02.**
3. **There are no mobile columns.**
4. **There are no mobile columns.**
5. **New lifts.**
6. **There are no mobile columns.**

RE-LOCATION OF EXISTING EQUIPMENT

7. **There is no existing equipment being moved to the new facility by the Contractor.**
8. **CF/CI = Contractor Furnished / Contractor Installed.**
9. **Adjacent on the same property.**
10. **No.**

AIR/LUBRICATION/WASTE FLUIDS

11. **No piped anti-freeze.**

12. **Evacuated directly. No pump.**

GENERAL

13. **Q101 takes precedence.**
14. **Adjacent on the same property. No.**
15. **Contractors are welcome to provide pre-submittal info for design team consideration/review if there is a preferred/alternate vendor.**
16. **The drum is a redundant note and has been removed from the Equipment List.**
17. **PP101 takes precedence.**

QUESTION 13

1. No fire extinguisher cabinets are shown on the floor plans.
2. No specification for the column cover. Shown as an aluminum column cover on A101 and drywall on A701.
3. There seem to be some differences between the Equipment plan and the list of equipment in the specs.
4. Pass Window PW-1 is not identified on the floor plans. Assuming it is the two windows at Lobby 102.
5. On sheet A201 Exterior Elevations, windows are shown as W-3 and SF-3. Should the W-3 be W-1, and should the SF-3 be W-2?
6. On sheet A601 Door Schedule, HM-5 is not identified on the floor plan.
7. On sheet A201 SF-5 is shown on detail #1. SF-5 is not detailed on the window schedule.

ANSWER 13

1. **The floor plans will be updated to reflect fire extinguisher locations. (typical of 10)**
2. **The columns will be wrapped with drywall per detail 1/A701. The note on A101 will be omitted.**
3. **Specifications will be updated to match sheet Q101**
4. **The assumption is affirmed, window tags will be added to the two windows in LOBBY 102 on sheet A401.**
5. **Yes, Sheet A201 has been updated to properly tag the windows.**
    a. **1/A201, SF-4 should be W-2, and SF-5 should be SF-4. (typical of 1 each)**
    b. **2/A201, W-3 (high) should be W-1 (typical of 4).**
    c. **3/A201, W-3 (high) should be W-1 (typical of 4). SF-3 should be W-2 (typical of 6)**
    d. **4/A201, SF-4 shown correctly, SF-3 should be W-2 (typical of 2)**
6. **HM-5 are located on the east and south partitions in MECHANICS 121 (typical of 2)**
7. **Refer to answers above in question 5 (sub part of QUESTION 13)**

QUESTION 14

Can you guys release the civil cad file?

ANSWER 14

We cannot release the CAD file until after a Contract is awarded.

QUESTION 15

Please find attached documents for substitution approval on Transportation Facility - New Building for Koster Resinous Flooring. The products you currently have specified are located in:

Section: 096723
Page:
Paragraph: 2.3

ANSWER 15

Kosler Resinous Flooring is an acceptable manufacturer for the products listed in Section 096723

QUESTION 16

I know this doesn't exactly fit substitution request criteria because you don't currently have a product specified in 055000, 3.3.B for bollard caps. But, I'm emailing you to see if it would still be possible to issue an addendum adding **TopGard Bollard Caps** as a named product to achieve your desired outcome on Transportation Facility - New Building?

ANSWER 16

TopGard Bollard Cap/U-Fill System is an acceptable product for use in association with applicable items listed in Section 055000.

QUESTION 17

I am reaching out to inquire about the process for submitting a request to have Delta Controls considered as the Building Automation System (BAS) provider for the Lee County Transportation Facility project.

ANSWER 17

It is acceptable for Contractors to submit other vendors/systems for the BAS, although the Contractors are required to have a price for the Trane alternate.

END OF QUESTIONS AND RESPONSES FOR ADDENDUM 01

ANSWERS FOR QUESTIONS 9 AND 12 HAVE NOW BEEN PROVIDED, REFER TO ORIGINAL QUESTIONS ABOVE.

BEGINNING OF QUESTIONS AND RESPONSES FOR ADDENDUM 02

QUESTION 18

Your consideration for Sikaplan to be accepted as an alternate would be most appreciated.

ANSWER 18

Sikaplan has been approved as an acceptable product for Specification Section 075419.

QUESTION 19

Controls Service Group, a DDC controls subcontractor, is very interested in participating in the bid process for the DDC control system portion of the project. We would greatly appreciate your taking the time to consider our company for inclusion in your project.

ANSWER 19

It is acceptable for Contractors to submit other vendors/systems for the BAS, although the Contractors are required to have a price for the Trane alternate.

QUESTION 20

I just want to confirm that the pre bid for this project is 7/9?

ANSWER 20

Yes, you are correct.

A non-mandatory Pre-Bid Conference will be held for interested parties on Thursday, July 9, 2026, at 9am at the existing Bus Garage, 416 Cox Maddox Rd, Sanford, NC. Site visit will begin immediately after the pre-bid conference.

QUESTION 21

We are interested in bidding the Lee County Schools Transportation Facility in Sanford project, but there is a requirement in the specs that we do not meet. The structural steel specs require the fabricator to be a “Company specializing in performing Work of this section with minimum 5 years experience with the following current AISC Certification: 1. Standard Steel Building Structures (STD).”
We do not meet this requirement as we are not in the AISC Quality Certification Program. We have had this requirement waived in the past, and then we would include costs in our bid for us to hire a licensed structural engineer or a third-party inspector (Terracon) to perform a shop inspection and oversee our quality control procedures during fabrication. We have done this on several occasions and the EOR accepted this inspection in lieu of the AISC Certification.
Would this be an option for this job?

ANSWER 21

The requirements of the Specifications must be met.

QUESTION 22

I'm reaching out regarding the fence going around this facility. For the 8' H Decorative Metal Fence, I wanted to see if you wanted me to quote out Industrial Grade Aluminum, or Steel.
The price difference is about 3-4x more.

ANSWER 22

Aluminum

QUESTION 23

Tile Subcontractor - The Specifications have a Tile spec with specific tile to use, but the Finish Schedule does not show tile. Is the Tile just an alternate?

ANSWER 23

Refer to Question 2, Addendum 01.

QUESTION 24

Equipment Sub - There are no inground lifts in the specs but lists them on the drawings? Budget looks small for those lifts.

ANSWER 24

Sheet Q101 takes precedence. In-ground lifts include:

Mark 5650 as noted on Equipment List. Quantity 1.

Mark 5690 edit to read: Lift, column, 60,000# total. Quantity 4.

QUESTION 25

From Casework Sub - Need finish schedule for the cabinets and restrooms. Need cabinet PL with color selection and confirm counter material is PL with color selection. There is no cut shown for the restrooms. They could be solid surface with integral sinks…need to confirm if PL with top mount sink, also, confirm particle board core melamine and PL doors will be acceptable for cabinets.

ANSWER 25

Refer to Project Manual Section 064116 – PLASTIC LAMINATE-CLAD ARCHITECURAL CABINETS.

Colors to be determined by Architect as noted in the stated specification section.

Refer to 8/A404 for cut through the restroom sink counter.

QUESTION 26

Overhead Door Sub -

1. Does this project require single or dual operators?
2. If they are to be single operator, which door will be the active leaf?
3. How many actuators are needed?
4. What type of actuators?

ANSWER 26

a) **Yes.**
b) **Single operator, right side.**
c) **Six actuator pads.**
d) **Refer to specification Section 0877113 – AUTOMATIC DOOR OPERATORS included in Addendum 02.**

QUESTION 27

Questions from a fiber sub.

1. The notes say a 12 port fiber adapter panel, so I assume that is a 12 strand fiber. Is the fiber multimode or singlemode?
2. Where is the fiber coming from going to the data closet?
3. How many data drops at each location?
4. Is the cabling for the Wireless Access Points Cat 6A? What color cable?
5. Is the owner supplying and configuring the wireless access points?
6. Is the owner supplying and configuring the cameras and camera system?
7. Can the camera cables be pulled as part of the structured cabling if you aren't including the camera system. What color cable?

ANSWER 27

1. **Yes, 12 strand sm lc connectors**
2. **From the current Bus Garage facility rack on the 2nd floor mezzanine**
3. **I'd have to reference the drawing but iirc i think it dual rj45 at each**
4. **Cat 6 will be fine the APs. blue cable for aps is fine. I think we use red patch cable to denote maintenance endpoints**
5. **Yes**
6. **No, Get quote for Vector Security for camera and installation of camera and system.**
7. **Yes, camera wire needs to be pulled as part oof the structured cabling and the card readers, 2N Force, and S2 Nodes. Need to get price from KNC for door access controls is the vendor that we use for our door system. I will have to let Technology let you know the colors.**

QUESTION 28

Could you confirm if the security (access & video) is by the owner or owner vendor?
If not, can you provide specs for the access control and video systems?

ANSWER 28

The design team only provided intent for infrastructure. So, just cabling from the camera location back to the IT rack.

Card readers, cameras, and the head end are by the Owner.

Contractor is to provide Cat 6, per Owner.

Notifier is listed as preferred.

Equals by Simplex is listed and devices in the schedule are EST.

QUESTION 29

The drawing shows a stationary (5) hose reel system, but the spec calls for a sliding rail system for emergency response vehicles. These are two very different systems.

Also, a note on the drawing mentions the owner suggesting two systems instead of just one. The drawing only shows one system, so should I disregard that note?

ANSWER 29

Stationary Hose Reels.

Not enough information provided about "two systems" note location to properly answer the question. For example, where is the conflicting note?

QUESTION 30

I would like to submit a substitution request for Soprema Sentinel P150 HFB as an option for the polyvinyl-chloride (PVC) roofing specified in section 075419.

ANSWER 30

Soprema Sentinel P150 HFB has been approved as an acceptable product for Specification Section 075419.

QUESTION 31

Sheet A010 missing from the plans, I need the page for the wall types.

Is the interior partition wall type sheet missing? The wall types are shown on the floor plans, but the partition sheet itself is missing or at least I can't find one in the drawing set.

ANSWER 31

Refer to addendum 02. The sheet was unintentionally omitted from the original Bid Documents.

QUESTION 32

Signage:

1. Signage specs refer to a signage allowance 012100. I do not see that in the specs?
2. Does that also refer to the exterior building lettering in A201?

ANSWER 32

1. **Refer to Project Manual Section 012100 – ALLOWANCES, which was unintentionally omitted from the original Bid Documents.**
2. **Yes, the Dimensional Lettering is included in a separate line item, which also includes other exterior signs which may not be shown on the drawings. Refer to Project Manual Section 012100 – ALLOWANCES, which was unintentionally omitted from the original Bid Documents.**

QUESTION 33

1. The contract documents appear to contain missing information and conflicting requirements regarding acoustical ceiling tile (ACT) types and suspension systems. Please provide clarification on the following items:

A. ACT Type AP-2

- Ceiling type AP-2 is identified on the drawings; however, we were unable to locate a corresponding specification defining the ceiling panel type, manufacturer, product, edge detail, NRC/CAC requirements, or suspension system.
- Please provide the complete specification for ceiling type AP-2.

B. ACT Type VP-1

- Ceiling type VP-1 is identified as “Vinyl Covered,” but no additional product information has been provided.
- Please confirm whether a vinyl-faced gypsum ceiling tile/panel is acceptable for this application.
- Additionally, please provide the required grid/suspension system type, material, and finish for VP-1.

C. ACT Suspension System Material

- Specification Section _____ identifies a standard 15/16-inch exposed steel suspension system with painted cap.

- However, wall section details throughout the drawings consistently identify an aluminum suspension system.

- Please clarify the required suspension system material for bidding and construction purposes and identify any areas where aluminum grid is specifically required in lieu of standard steel grid.

ANSWER 33

There shall be (4) four ceiling types:

AP-1: 2'x2' ACT, Basis of Design, Armstrong World Industries, Cortega 704.

AP-2: 2'x2' ACT, Basis of Design, Armstrong World Industries, Kitchen Zone 673.

VP-1: 2'x2', Wash Bay 124, Refer to Section 097700 – SPECIAL CEILING SURFACING.

GWB: As specified.

ACT Suspension System: Steel. The wall sections will be updated, no aluminum.

The drawings incorrectly show a 2'x4' grid and the specifications incorrectly call for a 2'x4' ACT. Both the drawings and the specifications will be updated.

QUESTION 34

Please clarify whether Alternate #1 includes the following components of the Warehouse Building:

- Foundations
- Concrete substructure/floor slab systems
- Doors, windows, and specialized openings
- Mechanical systems
- Plumbing systems
- Electrical systems
- Fire protection systems

ANSWER 34

Refer to revised Section 012300 – ALTERNATES for description.

QUESTION 35

The following product family is being offered as an equal alternative to the basis of design specified in Section 096519 – RESILIENT TILE FLOORING.

Manufacturer: Mohawk Group

Product Line: Living Local

https://www.mohawkgroup.com/products/hard-surface/collections/living-local

ANSWER 35

The proposed product is an acceptable alternative to the basis of design.

QUESTION 36

1. Reflected Ceiling Plan is showing the below finishes, AP-1 is in the specs but AP-2 and VP-1 is not. Can you please provide clarification on this?
    a. AP-1 2x2
    b. AP-1 2x4
    c. AP-2 2x2
    d. VP-1
2. Do we have any clarification on Rubber Base color?

ANSWER 36

1. **Refer to Answer 33 above for ACT scope.**
2. **No clarification on Rubber Base color. Color will be determined as stated in the associated specification section.**

QUESTION 37

On M101, the maintenance bay area appears to show CO monitoring tied to the mechanical sequence, including audible alarm/EMS notification and outside air dampers moving to 100% upon activation. I also see carbon monoxide detector language in the gas detection/control specifications.

Can you clarify who the design intent is for furnishing and carrying that CO detection scope?

Specifically, is the intent that this be:
- furnished as part of the mechanical controls/BAS scope,
- carried by electrical/fire alarm,
- provided as a standalone gas detection system,
- or packaged with the mechanical equipment?

We support gas detection systems and want to make sure we are directing pricing/support to the correct trade if this scope is being carried in the bid.

ANSWER 37

CO detection to be part of the controls / BAS scope. Refer to spec section 230993.01 - Sequence of Operations - DOAS 1-2. Controls to coordinate output to fire alarm system.

QUESTION 38

I am not seeing anything in the specs regarding the high performance coating in the wash bay and sink area of the maintenance bay.

ANSWER 38

Refer to specification section 099600 – HIGH-PERFORMANCE COATINGS included in Addendum 02.

QUESTION 39

1. For the Waste Oil, the spec book and drawings show a 500 gallon tank, but the specs also mention a 55 Gallon drum. What is this drum for and where will it be located in the shop?
2. For the Chassis Grease there are no specs for the 280 gallon cube tank mentioned on sheet 247150-1. Instead, it mentions a 120# drum on sheet 247150-23. On the drawing PP101 it appears to show a tank. Which is correct?

ANSWER 39

1. **Refer to ANSWER 12, items 16, and 17.**

QUESTION 40

I started going through the plans and found a reference for page A562 for additional information on the casework having undercounter lights. This page is not in the plans provided. Please provide a plan and additional information on the location of the undercabinet lighting

ANSWER 40

There is no sheet A562 in the Construction Documents.

There are no Undercounter/Undercabinet lights required on the Project.

QUESTION 41

We were looking through the project manual for the specifications for the flagpole, but it appears there is nothing for it under its Division 10 section. Would you be able to share the specs for the flagpole? Is there a basis of design we should follow for the bid?

ANSWER 41

Provided. Refer to Addendum 02 attachments for Section 103500 – FLAGPOLES.

QUESTION 42

Is there a copy of the NCDOT encroachment available for review for bidding purposes?

ANSWER 42

Refer to the document listed below which is attached to Addendum 02.

E082-053-26-00212 ApprovalPackage Lee County Board of Education 20260604.pdf

QUESTION 43

Just need to know more detail on the type of FRP needed in bathrooms. Specs dont show anything but the finish schedule shows it in the bathrooms and just says "FRP".

ANSWER 43

Refer to specification section 066400 – PLASTIC PANELING included in Addendum 02.

QUESTION 44

EQUIPMENT QUESTIONS
1.Do we go off the documents or the drawings?
The equipment list and drawings on Q101 are showing in ground lifts and a 12k 2post. Documents is listing an 18k 2post,no inground lifts.
Can you confirm the lifts and quantity?

2.In Q101of the drawings and the documents for the lift column mobile set, rotary is listed as acceptable substitute. Is Rotary acceptable on all lifts?

3. In the drawings Q101, the wheel balancer is showing Rotary , is that acceptable on all the wheel service equipment? Documents do list Rotary as an option..

ANSWER 44

1. **Q101 takes precedence. Refer to updated Equipment Schedule 2514-110600 - SCHEDULES FOR EQUIPMENT_r01_2026.07.09. Drawing Q101 will be updated to reflect the revised Equipment List.**
2. **Yes, Rotary is an acceptable manufacturer.**
3. **Yes, Rotary is an acceptable manufacturer.**

QUESTION 45

1. The cover sheet indicates interior partitions located on pg. A010, Architectural start on A101, can you please clarify.
2. On pg. PP101 the drawing shows the reels for compressed air, engine oil, grease, ATF, and air. Can you clarify who is responsible for installing these reels.
3. Can you please list the approved manufactures on the CCTV and Fire alarm.

ANSWER 45

1. **Refer to addendum 02. The sheet was unintentionally omitted from the original Bid Documents.**
2. **Plumber.**

3. Owner preferred is Notifier. Simplex and EST are approved equals.

QUESTION 46

A102, Openings on Sheet A102

On Sheet A102, there are two openings, both pairs, that do not have door numbers. Are these openings to be included in the base bid? If so, please provide the door numbers and the required door, frame, and hardware types.

ANSWER 46

The openings in question are gates. Refer to 3/A303 as tagged on A102, and shown on 1/A202, 3/A202,

QUESTION 47

A102, Openings on Sheet A102

For PW-1 pass-through sliding windows, are these to be hollow metal frames with aluminum sliding inserts, or aluminum frames with aluminum sliding inserts?

ANSWER 47

Refer to the Project Manual, Section 085619 – PASS WINDOWS.

QUESTION 48

A403, Toilet Accessories

The specifications list additional toilet accessories that are not shown or listed on Sheet A403. Are these additional accessories required to be included in the quote?

ANSWER 48

Specification Section 102800 – TOILET, BATH, AND LAUNDRY ACCESSORIES takes precedence. To assist with coordination during the bid process, document 2514-102800A – SCHEDULE FOR TOILET ACCESSORIES has been provided. The Contractor is responsible for verifying stated quantities.

QUESTION 49

E201, Room 123A – Secure Storage

Sheet E201 shows three light fixtures in Room 123A Secure Storage, but no fixture designations are provided. Please confirm the required light fixture type for this area.

ANSWER 49

The fixtures in the Secure Storage 123.A are unlabeled. They are to be fixture 'Q'.

QUESTION 50

Is there an irrigation system required?

...and similarly, another...

L700, Irrigation

Please confirm whether irrigation is required for this project.

ANSWER 50

No irrigation required for the Project.

QUESTION 51

L700, Mulch Buffer

Please clarify the mulch limit on the left side of the mulch buffer shown on Sheet L700.

ANSWER 51

The code required plantings in that buffer are minimal, so we want mulch rings around the trees and shrubs (see our planting details). The rest of the disturbed area will be seeded.

QUESTION 52

G Sheets / General

Please confirm who is responsible for permitting, development fees, builder's risk insurance, and third-party testing fees

ANSWER 52

Refer to the Project Manual.

QUESTION 53

I am reviewing the Equipment scope of work for this project and noticed discrepancies between the equipment specifications and the equipment schedule in the plans.

There are a number of items that are in the specifications that are not listed on the equipment schedule in the plans, some items that are listed in the equipment schedule call out different manufacturers than are listed for said item in the specs..

Can you advise if this is just an incomplete schedule or give us some sort of direction as to what needs to be priced for this scope? It has the potential to be a significant cost associated with this project, and I would like to be sure that we are pricing it correctly, as well as pricing the same items that other contractors will be pricing.

Also, a lot of the equipment that is listed in the specs does not seem to be produced anymore. For example, the bench grinders and the drill press, when you look up those models it brings up "vintage" equipment.

ANSWER 53

We are updating the documents; information on Q101 takes precedence.

QUESTION 54

I noticed there are no approved manufacturers listed in the fire alarm spec section, but Alternate #E-3 states a preferred brand of Notifier by Honeywell, while the plans call out EST devices. Is there an approved manufacturers list?

...and similarly...

The fire alarm specification section does not list approved manufacturers. However, Alternate #E-3 identifies Notifier by Honeywell as the preferred brand, while the drawings call out EST devices.

ANSWER 54

Owner preferred is Notifier. Simplex and EST are approved equals.

END OF QUESTIONS AND RESPONSES FOR ADDENDUM 02

QUESTIONS INCLUDED IN THIS DOCUMENT WERE RECEIVED FROM ISSUANCE OF BID DOCUMENTS THROUGH 11:59PM, WEDNESDAY, JULY 8, 2026. IF YOU DO NOT SEE A QUESTION/RESPONSE YOU BELIEVE WAS SENT TO THE ARCHITECT DURING THAT TIME PERIOD, PLEASE RESEND.

ANSWERS FOR QUESTIONS 12, 29, 37, 45, AND 54 HAVE NOW BEEN PROVIDED, REFER TO ORIGINAL QUESTIONS ABOVE.

BEGINNING OF QUESTIONS AND RESPONSES FOR ADDENDUM 03

QUESTION 55

The site lighting is listed as an alternate but it does not appear to show site lighting in the plans. Can you please advise.

ANSWER 55

Refer to Addendum 02, sheet E010 provided.

QUESTION 56

I did not see a specified manufacturer called out for the Fire Alarm system. Is this up to contractors discretion? I see Notifier and Silent Knight are listed for BDA/ERCES. Could it be assumed that Silent Knight would also be approved for fire alarm?

ANSWER 56

Owner preferred is Notifier. Simplex and EST are approved equals.

QUESTION 57

Specification 085113 – Part 2.2 – I. / Part 2.3 – D. both indicate for Window Type (W-1 / W-2) to be Architectural Ultra-Thermal Fixed and Casement Windows which are Large-Missile / Hurricane Impact Resistant. However, the Aluminum Storefront and Aluminum Storefront Swing Entrances specified in 084113 are traditional Ultra-Thermal storefront and standard swing door which are NOT hurricane/impact resistant. Specification 088000 – Part 3.9 – indicates exterior glazing for storefront and entrances is standard 1" insulated Low-E, not Large-Missile Hurricane/Impact Resistant.

ANSWER 57

Large-missile hurricane/impact resistance not required. Specification Section 088000, Part 3.9 as stated is correct.

QUESTION 58

Given project location please review and confirm if the Fixed / Casement Windows (W-1/W-2)are required to be "Large-Missile / Hurricane Impact Resistant" given that the other glazed systems on the exterior are not. (Please note that the (W-2) windows may be dimensioned wider and taller than what is allowed in that configuration regardless of being "Hurricane/Impact" or "Standard" and may require a reduction in size. – Awaiting response from basis of design manufacturer.)

ANSWER 58

Large-missile hurricane/impact resistance not required.

QUESTION 59

Can you please confirm the manufacturer for the Fire Alarm is that they want in this building? The plans or specs do not list this information

ANSWER 59

Owner preferred is Notifier. Simplex and EST are approved equals

QUESTION 60

The cover sheet indicates that partition types are located on page A010, but the architectural section begins on page A101. Can someone confirm whether page A010 is available?

ANSWER 60

Refer to Addendum 02, sheet A010 provided.

QUESTION 61

Do you have any manufacturer information on the CCTV and Fire Alarm. I see there is an alternate for preferred brand of fire alarm but it doesn't list the brand type. Also no manufacturer listed for CCTV.

ANSWER 61

Owner preferred is Notifier. Simplex and EST are approved equals.

QUESTION 62

ACT type AP-2 is not specified. What type of grid and tile should be priced?

ANSWER 62

Refer to Addendum 02, Q/A 33

QUESTION 63

ACT type VP-1 is not specified. All Info given is that it is Vinyl Covered. Is vinyl covered gypsum tile acceptable and what grid is acceptable.

ANSWER 63

Refer to Addendum 02, Q/A 33

QUESTION 64

The project manual specifies standard 15/16” steel grid with a painted cap but the wall section pages consistently call out aluminum grid. Can we get clarification on what ACT Grid type is the correct one?

ANSWER 64

Refer to Addendum 02, Q/A 33

QUESTION 65

We are writing to ask if the Owner would entertain moving the bid date for the Lee Cty Schools Transportation Facility.

ANSWER 65

The bid date will remain as currently set.

QUESTION 66

NOT USED

ANSWER 66

NOT USED

QUESTION 67

" In reviewing the Specifications for this project I have noticed 2 completely different Glass Specifications.

1) In the ALUMINUM WINDOWS – SECTION 085113 – Page 4

The specs call for Laminated Insulated Glass

2) In the GLAZING – SECTION 08800 – Page 10

The Specs call for a (more reasonable) Insulated Glass

ANSWER 67

Standard 1" insulated Low-E is correct. Specification Section 088000, Part 3.9 is correct.

QUESTION 68

I can't find a description of the ceiling tile & grid for AP-1 2'x2' and AP-2 2'x2' on the drawings or on the specs. I can only find for AP-1 2'x4' on the specs.

ANSWER 68

Please refer to Addendum 02, Q/A 33.

QUESTION 69

1. Is there an electrical site plan showing the pole lights noted on the lighting schedule? Please provide or clarify.
2. E301 note 1, are they in the slab or overhead requirements. the note does not clarify.
3. E003 confirm cord reels are furnished by the owner. The detail indicates only "selected by owner".
4. E501 please define trench length for the utility primary or indicate point of termination on C400.
5. E101 indicates there is a hot box associated with the alternate building even though there is nothing shown on the civil. Please define location.
6. E301 Keyed electrical notes #2, it references plumbing sheet PP001 for additional details in the note referencing cord reels.

ANSWER 69

1. **Refer to Addendum 02, sheet E101 provided.**

2. **The actual connections will be based on equipment provided and will require coordination.**
3. **Cord reel to be heavy duty, 50', 20A Duplex GFI by Lincoln or Reelcraft to match process piping.**
4. **This will need to be coordinated with the utility company.**
5. **Please carry the hotbox costs as shown on the electrical drawings.**
6. **Cord reel to be heavy duty, 50', 20A Duplex GFI by Lincoln or Reelcraft to match process piping.**

QUESTION 70

1. The lack of allowances/unit prices for unsuitable soils is unusual for a project such as this. Please request clarification on how unsuitable soils will be handled if encountered.

2. spec section 312000 is missing from the project manual

ANSWER 70

1. **Refer to updated specifications noted on Addendum 03.**
2. **Refer to Specification Section 312000 – EARTHWORK included in Adendum 03.**

QUESTION 71

On finish schedule:

There is "SC" for several other areas but the specs, page 516 - section 3.6 say "epoxy & urethane aggregate filled section 96723". Do we really want this type of floor coating for all these areas? or should they be SC. And if they are SC we would need to know what kind of sealer you are looking for. Just too may sealers out there now.

ANSWER 71

Concrete floors scheduled to receive sealer, follow Section 033000 Cast-in-Place Concrete, Paragraph 3.5.K.

QUESTION 72

1. Will the Owner have all the buses (operable or not), cars, metal scrap piles, truck beds, etc. within the LOD relocated or hauled away prior to the beginning of construction?
2. How thick is the existing asphalt pavement to be removed?
3. Will the temporary access road remain in place or need to be removed and seeded? ABC Stone would make a better compacted layer than #57 Stone for heavy equipment travel.
4. Are any EC measures required for the temporary access road?
5. Does the small brick building (10’ x 10’) next to the Tire Shop be removed or stay in place? What does it contain inside?
6. Please confirm the Tire Shop will be removed by others with the exception of the concrete slab and footings?
7. Please confirm the contaminated soil will be removed by others.

8. Please confirm testing will be paid for by the Owner.
9. It appears an existing driveway pipe will need to be removed on the east side (dirt drive) of the Bus Garage prior to installing the new driveway pipe.
10. Has the NCDOT approved the open cut in the asphalt roadway for the sewer line or will a bore (encasement) be required?

ANSWER 72

1. **Yes.**
2. **Refer to GeoTech Report.**
3. **Price as though it will be removed and seeded. The Owner will discuss options with the successful bidder during the project.**
4. **Yes, there will need to be temporary silt fence along the downslopes of the temporary access road as well as a couple of silt fence outlets.**
5. **Yes, it will be removed by the Contractor.**
6. **Yes, the existing Tire Shop will be removed by the Owner prior to the beginning of Construction. Concrete Slab and footings removal will be the responsibility of the Contractor.**
7. **Correct, the known existing contaminated soil will be removed by the Owner prior to the beginning of Construction.**
8. **Correct.**
9. **That existing driveway pipe to the east is outside of the extents of grading and won't need to be removed. However, there is some rip rap before the pipe which may need to be taken out.**
10. **DOT has not given approval yet on the open cut for the sewer line at this time.**

QUESTION 73

Flagpole: Detail on drawing C-600 shows a 20’ or 25’ flagpole with an internal halyard with winch. Spec section 107500 issued with addendum #2 calls for a 30’ double external halyard. Can we assume spec section 107500 takes precedence?

Toilet Accessories: The following items are listed in the specs but not shown on the plans. Are they required? If so, where / how many?

Robe Hook TA-12

Purse Shelf TA-15

Mirror Unit TA-14 (24x60 – only the TA-13 - 24x36 mirror is shown on the drawings)

Towel Pin TA-19

Custodial Shelf TA-22

Mop & Broom Holder TA-21

Visual Display Units: Spec section 101100. Are any required? The plans do not show any tackboards or markerboards that we can find. It does show a bulletin board in Break Room 106. Is that to be a tackboard as specified in 101100? If so, what size?

Regarding the quantity of 10 fire extinguishers and cabinets as noted in the addenda, are any of them to be part of Alternate #G-1 or are all 10 in the base bid?

ANSWER 73

Flagpole: Refer to Q/A 41, Addendum 02, this document.

Toilet Accessories: Refer to Q/A 48, Addendum 02, this document.

Visual Display Units: Yes, Break Room 106, 4'x4' tackboard.

Fire Extinguishers: Base bid.

QUESTION 74

Do we have a spec on the 8' H Decorative fence? Aluminum Vs. Steel? Posts Sizes? Pickets Dimensions?

ANSWER 74

Commercial Grade: Aluminum. Posts: 3-inch x 3-inch with post caps. Rails: 2-inch square tubes, two at top and one at bottom. Pickets: 3/4-inch square pickets with spacing 3-5/8-inch clear, maximum per Code.

QUESTION 75

Based on previous discussion with the end user, we know they wanted a continuous recess lift, but we were trying to confirm it will need to have 13' of travel or 17' of travel. I apologize for missing the RFI deadline yesterday, but this information is critical to accommodating the correct wheelbases of the buses.

ANSWER 75

Provide equipment necessary to accommodate provisions for a minimum axle to axle distance of 21'-0" required by the Owner.

QUESTION 76

1. **CABLE TRAY LOCATION FOR ACCESS CONTROL SYSTEMS**
   The Access Control Rough-In Detail on Sheet E002 references a cable tray, but no cable trays are shown on the electrical drawings. Please identify the intended cable tray locations or confirm the routing strategy for these systems.

2. **UNIDENTIFIED LIGHT FIXTURES IN ROOM 123A**
   On Sheet E201, Secure Storage Room 123A contains three light fixtures that do not have fixture callouts. Please provide the fixture type.

3. WIRELESS ACCESS POINT RACEWAY TERMINATION
Please confirm that raceways serving Wireless Access Point outlet boxes may terminate above an accessible ceiling or at a cable tray location (refer to Question No. 1).

4. CARD READER RACEWAY TERMINATION
Please confirm that raceways serving card reader boxes may terminate above an accessible ceiling or at a cable tray location (refer to Questions No. 1).

5. CAMERA OUTLET BOX RACEWAY TERMINATION
Please confirm that raceways serving Camera Outlet Boxes may terminate above an accessible ceiling or at a cable tray location (refer to Questions No. 1).

6. GARAGE DOOR SENSORS – SCOPE CLARIFICATION
Sheet E003, Typical Garage Door Controls Detail, indicates garage door sensors. Please confirm whether these sensors will be assigned an alternate bid item number or if the required boxes and raceways are to be included in the Base Bid.

7. EMERGENCY RESPONSE SYSTEM ALLOWANCE
Section 284800, Paragraph 1.3(C), indicates a $200,000 allowance for the design and installation of an Emergency Response System. However, this allowance is not included in the Schedule of Allowances in Section 012100, Paragraph 3.3(B). Please confirm that a $200,000 allowance is provided and should be carried out in the bid as indicated in Section 284800.

8. DISCONNECTS AND MOTOR STARTERS
Please confirm all disconnect switches and motor starters required for equipment not specifically included under Divisions 26, 27, or 28 are to be furnished by others (equipment vendors/trades), and are therefore excluded from the electrical contractor's scope of work.

9. LOCATIONS OF UTILITY TRANSFORMER, GENERATOR, AND HOTBOX
To allow for accurate pricing of the secondary feeders, generator feeder associated with Alternate No. E-4, and power feeder to the hot box, please provide a site plan indicating the final locations of the Utility Transformer, Generator, and Hot Box. Currently, Sheet E301 notes only "Coordinate Desired Location with Architect" for these items, which does not provide sufficient information to determine feeder lengths and associated installation costs. Please confirm the intended locations or provide a revised site plan showing these equipment locations.

10. GENERATOR, AUTOMATIC TRANSFER SWITCH (ATS), AND DISTRIBUTION BLOCKS
Please confirm that all requirements and specifications for ALT E-4 are fully identified on Sheet E501. If any required information is not shown on the drawings, please provide the applicable specification section(s) covering the generator, ATS, and distribution blocks.

11. FLOOR BOXES
Is there a preferred manufacturer/model for the floor boxes shown on Sheet E301 in Training Room 104 and Mechanics Room 121?

12. TV WALL BOXES

Is there a preferred manufacturer/model for the dual TV wall boxes serving Training Room 104, Mechanics Room 121, and Break Room 106?

13. SYMBOL NOT ON E001
This symbol, located in the Vestibule Room No. 101, is not on the legend (hexagon with 'GA'). Please advise.

ANSWER 76

1. **There is no cable tray. Utilize J-hooks.**
2. **Refer to Addendum 01, Q/A 9.2. Page 3 of this document.**
3. **They would terminate above accessible ceiling.**
4. **They would terminate above accessible ceiling.**
5. **They would terminate above accessible ceiling.**
6. **Boxes and raceway to be included.**
7. **Disregard, the stated allowance is NOT included in the Project.**
8. **Disconnects shown or noted on electrical plans are to be included in base bid.**
9. **Provide the specified item.**
10. **Provide the specified item.**
11. **No, there is not a preferred brand.**
12. **No, there is not a preferred brand.**
13. **This would be the location of the generator annunciator panel.**

QUESTION 77

Question 1 – For the Transportation Facility Building: Fire Department Connection Location
The contract documents provide conflicting information regarding the location of the Fire Department Connection (FDC):

- Utility Plan C-400 depicts the FDC mounted on the backflow preventer enclosure located in the site yard.
- Fire Protection Plan FP101 depicts the FDC mounted on the building.

Please clarify the intended location of the Fire Department Connection and identify which drawing should govern for bidding and construction purposes.

Question 2 – Vehicle Storage Building: Backflow Preventer and Fire Department Connection Locations
The contract documents do not indicate the location of the following fire protection components for the Vehicle Storage Building:

- Backflow Preventer Assembly
- Fire Department Connection (FDC)

Please provide the intended locations for these items.

Question 3 – Vehicle Storage Building: Conditioned vs. Unconditioned Space

Please confirm whether the Vehicle Storage Building is intended to be a conditioned or unconditioned facility.
If the building is not conditioned and subject to freezing conditions, the sprinkler system will require a dry-pipe system instead of a wet-pipe system. Please confirm the intended building environmental conditions and sprinkler system type.

Question 4 – Warehouse Building (Add Alternate): Backflow Preventer and Fire Department Connection Locations

The contract documents do not indicate the location of the following fire protection components for the Warehouse Building Add Alternate:

- Backflow Preventer Assembly
- Fire Department Connection (FDC)

Please provide the intended locations for these items.

Question 5 – Fire Alarm System Approved Manufacturers

The contract documents do not identify approved fire alarm system manufacturers.
However:

- Alternate E-3 references a preferred manufacturer of Notifier by Honeywell.
- The fire alarm drawings currently indicate EST devices and equipment.

Please provide the list of approved fire alarm manufacturers and clarify whether the system basis of design is EST, Notifier, or another acceptable manufacturer. Additionally, please advise whether substitutions will be permitted and the requirements for equivalency review.

Question 6-Above Ground Fuel Storage Tanks

The contract documents indicate the installation of tanks; however, the drawings and specifications do not clearly identify whether insulation is required.
Please confirm whether the referenced tanks are to be insulated.
If insulation is required, please provide the following:

1. Required insulation thickness.
2. Insulation material and specification requirements.
3. Exterior jacket/cladding material requirements (if applicable).
4. Whether insulation is required on the tank only or on associated piping, fittings, valves, and appurtenances.
5. Overall tank dimensions, including insulated outside dimensions, if required for coordination and clearance purposes.
6. Any freeze protection, condensation control, or energy conservation criteria that govern the insulation design.

Question 7-Foldable Partition

The specified requirements in Section 10 22 39 appear to conflict with or not fully support the stated Basis of Design, Modernfold Encore. To ensure bidding consistency and compliance with the design intent, please clarify the following items and provide revised specifications as applicable.

Section 2.3.C – specification language does not satisfy the Basis of Design for Modernfold Encore. The language which satisfies proper panel fabrication

Section 2.3.H.2 – specification language does not satisfy the requirements to achieve the STC requirement of 56. The manufacturer's minimum steel gauge requirements are 16 gauge.

Section 2.3.H.3 – specification language is suggested to updated to language to help with satisfying the structural integrity of the operable partition is: "Roll-formed and welded steel skin rather which is the optimal to increase the end-users longevity of application.

Section 1.11 – warranty. The manufacturer's basis of design offers a Ten (10) year warranty. Suggested to increase the warranty.

Section 2.3.C – update language which is to state the top seal is an automatic seal which requires no tools for operation.

Section 2.5:
Steel top track is recommended rather than aluminum, which helps with functionality of the operable
partition with pre-programmed track capabilities rather than the specified 2.5.B.1 which is multi-directional tracks/trolleys which require it to be aluminum top track. Steel, pre-programmed track
functionality is designed so that the operation of the wall offers all panels to pre-programmed with
movement of the panels pre-determined and therefore eliminating erroneous panel setup.

ANSWER 77

1. **The FDC location shown on the Civil Drawings is correct. The Fire Marshal left comments saying to move the FDC to the backflow preventer.**
2. **Per the Documents, the Vehicle Storage Building is an open-air structure.**
3. **Per the Documents, the Vehicle Storage Building is an open-air structure.**
4. **We anticipated needing a backflow and provided power and fire alarm connections for a hotbox in the bid documents. Assume FDC to be on hotbox, not on building, just like the Bus garage will be. 6" for sprinkler line size.**
5. **Owner preferred is Notifier. Simplex and EST are approved equals.**
6. **Not aware of any fuel storage tanks on the project.**
7. **First 3 items refer to Paragraph 2.2, Not 2.3 as indicated.**

   Paragraph 2.2.C: This language is very generic and sets minimum requirements. It doesn't preclude the basis of design.

   Paragraph 2.2.H.2: Paragraph calls for "manufacture's standard nominal minimum thickness " Add "But no less than 0.0598-inch (1.5-mm)."

Paragraph 2.2.H.3: Replace the "Tension -leveled" steel sheet with "Roll-formed and welded" steel sheet. Retain the requirement for 0.0598-inch (1.5-mm) thick sheet.

Paragraph 1.11: Change Warranty Period to 10 years.

Paragraph 2.3.C: Add language "… requiring no tools to operate."

Paragraph 2.5.A: Panels are manual. Vendor should provide proper configuration to allow panels to function per the design, layout, and storage stacking configuration.

QUESTION 78

Description
Spec section 133419 is calling for a 2" vertical leg 16"-18" wide standing seam roof panel but architectural wall sections are noting a trapezoidal panel which has a 3" tall vertical leg.

Additionally, neither of these panels are able to mee the FM 4471 Class 1A-165 requirement in spec section 133419.

2" vertical leg panels in 22 Ga. with 4'-0 OC purlin spacing can meet up to Class 1-135.

3" vertical leg trapezoidal panels in 22 Ga. with 3'-6 OC purlin spacing can meet up to Class 1-105.

Question:

Please confirm if FM Global roof panels are required of if FM 4471 Class 1-90 is an acceptable alternative?
Which standing seam profile and vertical leg height is to be used?

ANSWER 78

Specification Section 133419:

- **Delete Paragraph 2.3.M. FM Global listing is not required.**
- **Paragraph 2.5.A: Change to read: Standing-Seam Trapezoidal Rib, Metal Roof Panels.**
- **Paragraph 2.5.A.5: Change to read: 3 inches (76 mm).**

QUESTION 79

79.1 Heavy-Duty In-Ground Bus Lifts

Reference: Q101 / Equipment Schedule / Vehicle Lift Specifications

The drawings indicate Stertil-Koni heavy-duty in-ground Diamond lifts; however, the specifications do not appear to provide full equipment requirements for the heavy-duty in-ground lifts.

Question:
Will heavy-duty in-ground bus lifts be required for this project? If yes, please provide full lift

specifications, including capacity, number of posts/pistons, pit requirements, controls, utilities, accessories, and manufacturer requirements.

79.2 Approved Equal for Heavy-Duty In-Ground Lifts

Reference: Q101 / Equipment Schedule / Vehicle Lift Specifications

If heavy-duty in-ground lifts are required, will **Rotary MOD35 in-ground lifts** be accepted as an approved equal?

Reason for RFI:
Clarification is needed so bidders can price the correct lift manufacturer and model.

79.3 Required Wheelbase Dimensions for In-Ground Lifts

Reference: Q101 / Vehicle Lift Layout

Please provide the required vehicle wheelbase range and design vehicle information for the heavy-duty in-ground lift installations.

Question:
What wheelbase dimensions should the in-ground lift system be designed to accommodate?

79.4 Fluid Detection and Sump Pumps at In-Ground Lift Pits

Reference: Q101 / Plumbing / Process Piping

Please confirm whether automatic fluid detection systems and sump pumps are required for the in-ground lift pits.

If required, should these systems discharge to the building oil/water separator or another approved drainage location?

79.5 Mobile Column Lifts

Reference: Q101 / Equipment Schedule

Please confirm whether mobile column lifts are included in the project scope.

If mobile column lifts are required, please provide:

- Quantity
- Capacity per column

- Number of columns per set
- Battery or corded power requirement
- Manufacturer/model requirements

79.6 In-Ground Lift Controls, Pedestals, and Utility Locations

Reference: Q101 /

Please confirm the required control location for each in-ground lift.

Questions:

1. Should air and electrical controls be located at a floor-mounted pedestal?
2. Would wall-mounted controls be acceptable to reduce floor obstruction?
3. Are wireless remote controls required or acceptable?
4. Please confirm required air and electrical rough-in locations.

79.7 12,000 LB Two-Post Lift Clarification

Reference: Q101 / Equipment Schedule / Vehicle Lift Specifications

The equipment schedule lists a 12,000 lb. two-post lift with a model number that appears to correspond to an above-ground lift.

Questions:

1. Should this 12,000 lb. lift be above-ground or in-ground?
2. If an in-ground model is required, please provide the required specification.
3. Will a Rotary lift be accepted for this item as an approved equal?

79.8 Air Compressor Size, Type, and Electrical Requirements

Reference: Q101 / PP101 / Air Compressor Specifications

Q101, PP101, and the specifications appear to indicate different air compressor requirements.

Question:
Please confirm the required air compressor size, type, capacity, tank size, voltage, phase, and electrical requirements.

Bidder Note:
Based on the apparent size and use of the shop, we recommend using the compressor requirements stated in the specifications unless otherwise directed.

79.9 Antifreeze System / Reels

Reference: Q101 / Process Piping Drawings

Q101 references antifreeze; however, the reel layout drawings do not appear to show antifreeze reels.

Question:
Is an antifreeze tank, pump, piping, and hose reel system required? If yes, please provide tank size, reel quantity, reel locations, and piping requirements.

79.10 Fluid Tank Size Conflict

Reference: Q101 / PP101 / Process Piping Specifications

Q101 and PP101 appear to show different tank sizes.

Question:
Please confirm the required tank sizes for each fluid system.

79.11 DEF Tank and Reel Location

Reference: Q101 / PP101

Q101 references a DEF tank and reel.

Question:
Please confirm whether a DEF tank and reel are required, and provide the required tank size, pump requirements, reel quantity, and final reel location.

79.12 Tire Cage Location

Reference: Q101 / Equipment Schedule

Q101 references item 2110 tire cage.

Question:
Please confirm whether the tire cage is required and provide the final location.

79.13 Pressure Washer Hose Reel

Reference: Q101 / Process Piping

Q101 indicates an overhead pressure washer reel.

Questions:

1. What size and capacity pressure washer reel is required?
2. What are the piping requirements from the pressure washer to the overhead reel?
3. Please confirm mounting height and final location.

79.14 Vehicle Exhaust System Type

Reference: M101 / M203 / Vehicle Exhaust Specifications

M101 and M203 reference a rail system; however, the details appear to show fixed reels.

Question:
Please confirm whether the vehicle exhaust system is to be a rail-mounted system, fixed hose reel system, or another configuration.

79.15 RFI 15 – Exhaust Reel and Blower Mounting Heights

Reference: M101 / M203

Please confirm the mounting height above finished floor for the exhaust reels and exhaust blowers.

79.16 Exhaust Blower Sizes and Duct Design

Reference: M101 / M203 / Vehicle Exhaust Specifications

The exhaust system appears to reference both 3 HP and 5 HP blowers in the same system.

Questions:

1. Is the intent to provide both a 3 HP and 5 HP blower?
2. Please confirm which blower serves each area or bay.
3. Are duct sizes fully designed by the engineer, or are final duct sizes to be provided by the exhaust system manufacturer/subcontractor?

79.17 Exhaust System Specification Clarification

Reference: Vehicle Exhaust Specifications

The vehicle exhaust specifications appear to include requirements commonly associated with EMS/fire station exhaust systems rather than typical vehicle repair facility exhaust systems.

Question:
Please confirm whether the specified exhaust system requirements apply as written, or whether a standard vehicle repair facility exhaust system is acceptable.

79.18 Used Oil System Pump

Reference: Q101 / PP101 / Used Oil System

Please confirm whether a pump is required for the used oil system.

Question:
The used oil drains shown do not appear to require a pump, but the used oil tank may require compressed air. Please confirm the required system operation and utility requirements at the used oil tank.

79.19 Aluminum Compressed Air Piping

Reference: PP001 / Compressed Air Specifications

Will aluminum compressed air piping be accepted as an approved equal for compressed air piping?

Reason for RFI:
Aluminum compressed air piping is commonly used in shop compressed air systems.

79.30 Used Oil Piping Material

Reference: PP001 / Process Piping Specifications

Will aluminum piping be accepted as an approved equal for used oil piping?

79.21 Oil and Grease Piping Material

Reference: PP001 / Process Piping Specifications

Will steel pipe with O-ring fittings be accepted as an approved equal for oil and grease piping?

Reason for RFI:
This piping system is commonly used for oil and grease distribution systems.

79.22 Air Hose Reel Filter/Regulator/Drip Leg Detail

Reference: PP001 Air Support Detail

The air support detail appears to show a drip leg, filter, regulator, and filter at each air hose reel.

Question:
Please confirm whether this assembly is required at every air hose reel.

79.23 Grease Piping Size

Reference: PP001 Grease Detail

The grease detail appears to show 2" grease piping before transitioning to tubing.

Question:
Please confirm whether 2" grease piping is required, or if 1" piping should be used.

79.24 Storage Equipment Scope

Reference: Section 117001 / Q101

Section 117001 includes specifications for multiple types of storage equipment. The drawings appear to show only item 1456 and item 1640 tire racking.

Question:
Please confirm whether the storage equipment scope is limited to the tire racking shown on the drawings, or whether additional shelving/storage equipment listed in the specifications is required.

79.25 Equipment Quantity Conflicts

Reference: Q101 / Equipment Schedule / Equipment Specifications

Some items appear in the equipment schedule or specifications but are not shown on the drawings. Other items appear to have quantity conflicts between the drawings and the equipment list. For example, item 1185 appears once on Q101, but the equipment list indicates a quantity of four.

Questions:

1. If an item appears in the specifications or equipment schedule but is not shown on the drawings, is it included in the bid?
2. If the quantity shown on the drawings differs from the equipment schedule, which quantity should be used for bidding?
3. Please confirm the correct quantity for item 1185.

ANSWER 79

79.1 Yes. Refer to revised Equipment List issued with Addendum 02.

79.2 Yes. Rotary is an acceptable manufacturer.

79.3 Provide equipment necessary to accommodate provisions for a minimum axle to axle distance of 21'-0" required by the Owner.

79.4 Correct.

79.5 No mobile units.

79.6 Floor mounted.

79.7 In-Ground. Refer to revised Equipment List issued with Addendum 02. Rotary is an acceptable manufacturer.

79.8 PP101 takes precedence.

79.9 No piped anti-freeze.

79.10 Refer to revised Equipment List issued with Addendum 02.

79.11 Not required.

79.12 Refer to revised Equipment List issued with Addendum 02.

79.13 Response Pending.

79.14 Refer to Q/A 29, this document.

79.15 To Be Determined.

79.16 By Manufacturer.

79.17 Exhaust system standard for Bus maintenance facilities.

79.18 No pump.

79.19 Provide specified items.

79.20 Provide specified items.

79.21 Provide specified items.

79.22 Provide specified items per detail.

79.23 Provide specified items.

79.24 Refer to revised Equipment List issued with Addendum 02.

79.25 Refer to revised Equipment List issued with Addendum 02 which takes precedence.

END OF QUESTIONS AND RESPONSES FOR ADDENDUM 03

QUESTIONS INCLUDED IN THIS DOCUMENT WERE RECEIVED FROM ISSUANCE OF BID DOCUMENTS THROUGH 2:00PM, FRIDAY, JULY 10, 2026.

NO FURTHER QUESTIONS ARE ACCEPTED.

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

5410 Trinity Road
Suite 102
Raleigh, NC 27607

P 919.866.4951
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www.timmons.com

Narrative

Erosion Control

For Erosion Control Phase 1, J-Hooks and concrete washouts have been introduced, as detailed on sheet C-200 (the washouts were previously included in phases 2 and 3). Check dams have been integrated into both Phase 1 and Phase 2 of the erosion control strategy, which can be seen in sheets C-200 and C-201. Along the downslope of the temporary access road, new silt fencing and silt fence outlets have been implemented, as shown on sheets C-200 and C-201. To stabilize steeper areas, rolled erosion control products have been applied to proposed grades with slopes of 3:1 or greater, and are reflected on sheet C-201. General notes 4, 11, and 12 have been added to all erosion control phases. Notes 1 and 3 have been added to the phase 1 construction sequence on sheet C-200. Lastly, note 7 has been added to sheet C-202 which states that the temporary construction road will be removed upon the project's completion. See addendum for updated plans for quantities.

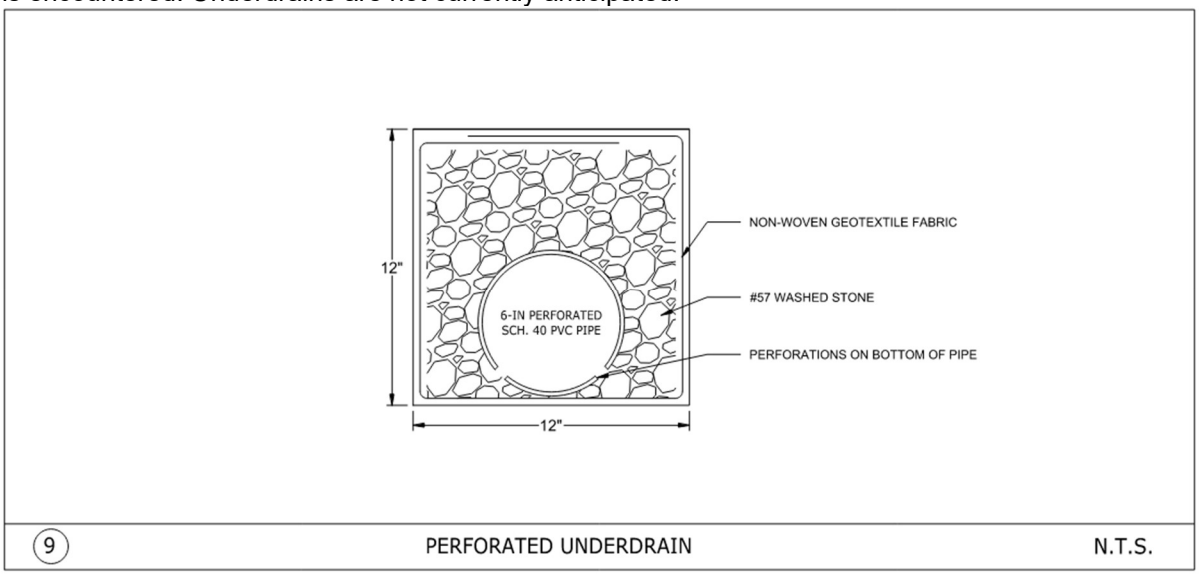
Utilities

Under the proposed warehouse alternate, approximately 51 feet of a 4-inch sanitary sewer lateral will be required, along with the installation of an additional manhole. A 158 foot 1” CW line needs to be installed along with a freezeless yard hydrant near the warehouse. 38 feet of 6” DIP fire service line would need to connect to the warehouse with a 6” RPDA with FDC attached to it and a PIV installed directly after. A tapping tee with two gate valves is needed to attach this line to the main water line.

If Sanford requires private utilities on-site, then the following changes are anticipated but are subject to change: two 6-inch meters and two 6-inch backflow preventers, and the upsizing of the proposed 6-inch waterline to an 8-inch line. All previously planned meters and backflows shown on the original drawings will be omitted, and all associated fittings, valves, reducers, and related appurtenances will be upsized accordingly to accommodate the revised line diameters.

Stormwater

The pipe outletting from the wet pond has been upsized from 15” to 18” (this was shown correctly on Sheet C-504 but has now been updated on sheet C-502). An underdrain detail has been included below. Underdrains may be needed under asphalt and under the building pad if a high seasonal high water table is encountered. Underdrains are not currently anticipated.



Notes and Details

On sheet C-600, the heavy-duty concrete detail has been revised to feature increased concrete and stone thicknesses. A sediment basin detail was added to sheet C-609. A new installation detail for the J-Hooks has been included on sheet C-610. To meet current standards, the updated NCG01 construction stormwater details have replaced the outdated ones in sheets C-611 and C-612.

BID FORM – SINGLE PRIME CONTRACT

TO: Lee County Schools
2000 Nash Street
Sanford North Carolina, 27330

FROM: BIDDER _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

The undersigned Bidder agrees, if this Bid is accepted, to enter into an agreement with Owner, in the form included in the Bidding Documents, to perform and furnish the work as specified or indicated in the Bidding Documents for the Bid Price and within the Bid Times indicated in this Bid in accordance with the other terms and conditions of the Contract Documents.

1. BASE BID PROPOSAL:

Having become completely familiar with the local conditions affecting the cost of work at the place where work is to be executed, and having carefully examined the site conditions as they currently exist, and having carefully examined Bidding Documents prepared by

Name: **CRA Associates, Inc.**
Address: 100 Europa Drive., Suite 565
City / State / Zip: Chapel Hill, NC 27517

and titled:

Name of Project: **Lee County Schools Transportation Facility**
Address: 416 Cox Maddox Road
City / State / Zip: Sanford, NC 27332

Dated **June 25, 2026** together with any addenda to such Bidding Documents as listed hereinafter, the undersigned hereby proposes and agrees to provide all labor, materials, plant, equipment, transportation and other facilities as necessary and/or required to execute all of the work described by the aforesaid Bidding Documents for the lump sum consideration of:

Base Bid: _____

_____

Dollars ($_____),

Said amount being hereinafter referred to as the Base Bid or Base Bid Proposal.

Base Bid Breakdown:

General	Dollars ($_____)
Mechanical	Dollars ($_____)
Electrical	Dollars ($_____)
Fire Alarm	Dollars ($_____)

2. BID ACKNOWLEDGEMENTS:

In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:

1. This Bid will remain subject to acceptance for sixty (60) days after the day of Bid opening;
2. The Owner has the right to reject this bid;
3. Bidder will sign and submit the Agreement with the other documents within 15 days after the date of the Owner's Notice of Award;
4. Bidder has examined copies of all the Bidding Documents.
5. Bidder has visited the site and become familiar with the general and local site conditions;
6. Bidder is familiar with federal, state, and local laws and regulations;
7. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Bidding Documents and additional examinations, investigations, tests, studies and data with the Bidding Documents;
8. Bidder certifies that this proposal is made in good faith and without collusion or connection with any other person bidding on the same work, or that any official or employee of the County of Durham or Durham Public Schools will be admitted to any share or part of the contract or any benefits that may arise therefrom if the contract is awarded to this company.

3. ALTERNATES:

The undersigned proposes to perform alternatives for stated resulting additions to or deductions from the Base Bid. Additions and deductions shall include any modifications of work or additional work that undersigned may be required to perform by reason of the acceptance of any alternative.

ALTERNATE NO. G-1: ADD Warehouse Construction.

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**)_____ Dollars ($_____)

ALTERNATE NO. G-2: Preferred Brand - Door Hardware.

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. G-3: Preferred Brand - Paint.

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. P-1: Preferred Brands – Water Heaters and Flush Valves

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. M-1: Preferred Brand – HVAC Equipment

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. M-2: Preferred Brands – Pumps, Pump Controllers, Valves

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. E-1: ADD for Site Lighting

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**)_____ Dollars ($_____)

ALTERNATE NO. E-2: Preferred Brand – Electrical Equipment and Devices.

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. E-3: Preferred Brand – Fire Alarm System.

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____)

ALTERNATE NO. E-4: ADD for Emergency Generator.

Adjust Base Bid by ADDING or DEDUCTING

(**ADD**) (**DEDUCT**)_____ Dollars ($_____

4. UNIT PRICE ALLOWANCES

A.	Additional Excavation	6,500 c.y.	_____ c.y.
B.	Additional Excavation in Trenches and Footings	100 c.y.	_____ c.y.
C.	Mass Rock Excavation	10 c.y.	_____ c.y.
D.	Rock Excavation in Trenches and Footing	10 c.y.	_____ c.y.
E.	Subsurface Drain	2,000 l.f.	_____ l.f.
F.	Woven Geotextile Fabric	2,000 S.Y.	_____ S.Y.

5. ADDENDA ACKNOWLEDGMENT:

The undersigned acknowledges receipt of the following addenda: (List by number and date appearing on addenda.)

Addendum No.	Date	Addendum No.	Date

6. SUBCONTRACTOR LISTING:

Pursuant to N.C.G.S. 143-128(d), all bidders shall identify on their bid the contractors they have selected for the subdivisions or branches of work for:

Subcontract Trade	Subcontractor Name	License #
Heating, Ventilating, Air Cond.		
Electrical		

7. ACKNOWLEDGEMENTS & AUTHORIZATION:

A. The undersigned declares that the person or persons signing this Proposal is/are fully authorized to sign on behalf of the firm listed and to fully bind the firm listed to all the Proposal's conditions and provisions thereof.

B. It is agreed that no person or persons or company other than the firm listed below or as otherwise indicated has any interest whatsoever in this proposal or the contract that may be entered into as a result of the Proposal and that in all respects the proposal is legal and firm, submitted in good faith without collusion or fraud.

C. It is agreed that the undersigned has complied or will comply with all requirements of local, state, and national laws, and that no legal requirement has been or will be violated in making or accepting this Proposal, in awarding the contract to him and/or in the prosecution of the work required.

D. It is agreed that the undersigned shall provide any information deemed necessary by the Owner to establish the responsiveness and responsibility of the bidder.

E. The Bidder acknowledges that the submission of this bid constitutes the Bidder's certification to the State Treasurer that, as of date of bid, it is not listed on the Final Divestment List created and maintained by the North Carolina Department of State Treasurer (the "Treasurer's Office") pursuant to the Iran Divestment Act of 2015, Chapter 147 Article 6E of the General Statutes of North Carolina (the "Iran Divestment Act")" The individual signing this bid form certifies that he or she is authorized by the bidder to make the foregoing statement.

F. The following information is provided pursuant to the Contract Documents:
Legal Name of Firm:

1. If Firm is a corporation, state that corporation is organized under the laws of the State of _____. Please affix corporate seal to this Form of Bid.
2. If Firm is a partnership, state names of partners:

   _____
   _____
   _____
3. If Firm is an individual using a trade name, state name of individual:

   _____

Contractor Registration Number: _____

Respectfully submitted, this _____ day of _____ 20 _____

_____
(Signature)

_____
(Name Typed)

_____
(Title)

(SEAL IF BIDDER IS A CORPORATION)

END FORM OF PROPOSAL – SINGLE PRIME CONTRACT

SECTION 01 02110 – SITEWORK ALLOWANCES

PART 1 - GENERAL

RELATED DOCUMENTS

A. The provisions of the Contract Documents apply to the work of this Section.

1.2 SUMMARY

A. This Section specifies administrative and procedural requirements regarding allowances associated with sitework.

B. This Section includes the following unit price allowances:

1. Additional Excavation
2. Additional Excavation in Trenches and Footings
3. Mass Rock Removal
4. Trench Rock Removal
5. Subsurface Drain
6. Woven Geotextile Fabric

PART 2 – PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICE ALLOWANCES

A. Additional Excavation

1. Provide in the Base Bid an allowance of 6,500 c.y. for excavation of material, where authorized or directed, below or in addition to the levels required for the Work. Dispose of excavated material in an approved location on-site. Backfill with on-site suitable fill material compacted per specifications. Credit or additions to the Contract Price for actual quantities removed and replaced (based on volume of material cut) shall be made per the Unit Prices contained in the Bid Form. Include in the unit price the cost of quantity verification by a Surveyor Licensed in the State of North Carolina.

B. Additional Excavation in Trenches and Footings

1. Provide in the Base Bid an allowance of 100 c.y. for excavation of material in trenches and footings, where authorized or directed, below or in addition to the levels required for the Work. Dispose of excavated material in an approved location on-site and backfill with 57 stone compacted per specifications. Credit or additions to the Contract Price for actual quantities removed and replaced (based on volume of material cut) shall be made per the Unit Prices contained in the Bid Form. Include in the unit price the cost of quantity verification by a Surveyor Licensed in the State of North Carolina.

C. Mass Rock Excavation

1. Provide in the Base Bid an allowance of 10 c.y. for excavation of rock. Dispose of excavated rock material in an approved location on-site. Backfill with on-site suitable fill material compacted per specifications. Credit or additions to the Contract Price for actual quantities removed and replaced (per the pay limits established in the Specifications) shall be made per the Unit Prices contained in the Bid Form. Include in the unit price the cost of quantity verification by a Surveyor Licensed in the State of North Carolina.

D. Rock Excavation in Trenches and Footings

1. Provide in the Base Bid an allowance of 10 c.y. for excavation of rock in trenches. Dispose of excavated rock material in an approved location on-site and backfill excavation with 57 stone. Credit or additions to the Contract Price for actual quantities removed and replaced (per the pay limits established in the Specifications) shall be made per the Unit Prices contained in the Bid Form. Include in the unit price the cost of quantity verification by a Surveyor Licensed in the State of North Carolina.

E. Subsurface Drain

1. Provide in the Base Bid an allowance of 2000 linear feet of subsurface drain as detailed in this addendum.

F. Woven Geotextile Fabric (for reinforcement): Mirafi 500X, or equivalent, in place (2000 S.Y.)

3.2 ADMINISTRATION OF SITEWORK UNIT PRICE ALLOWANCES

A. Excavation of work under unit price allowances must be authorized in advance by the Owner, Owner's Geotechnical Testing Firm, and the Architect.

B. Unit Prices for each allowance shall be given on the Bid Form.

1. The Owner reserves the right to negotiate said Unit Prices prior to the award of Contract.

C. Allowances required by this Section shall be included in the Base Bid amount.

D. Allowances required by this Section shall be indicated on the Schedule of Values and shall be determined by multiplying the quantity indicated by the unit price given on the Bid Form.

E. Submit invoices or surveyor's certificate, as required, with pay requests that involve the Unit Price Allowances.

F. Credit unused amount of Unit Price Allowance (if any) to Owner by Change Order at Project Closeout.

3.3 ADMINISTRATION OF LUMP-SUM ALLOWANCES

A. Conform to the requirements of the General Conditions.

END OF SECTION 01 02110

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Subsurface Exploration Report.

1.2 SUMMARY

A. This Section includes the following:
1. Preparing and grading subgrades.
2. Excavating and backfilling for structures.
3. Base course for walks and pavements.
4. Subsurface drainage backfill for trenches.
5. Excavating and backfilling trenches.

B. Related Sections: The following Sections contain requirements that relate to this Section.

1. Division 01 Sections for allowances, definitions and procedures.
2. Division 31 Section 311000 "Site Clearing" for site stripping, grubbing, topsoil removal, and tree protection.
3. Division 33 Section 3341000 “Storm Drainage Utilities” for storm drainage, foundation drainage connections outside of building and roof drainage connections outside of building.
4. Division 32 Section 329000 "Planting" for finish grading, including placing and preparing topsoil for permanent and temporary grass seeding.
5. Division 31 “Soil Erosion and Sediment Control”, for all areas of the site that are graded or disturbed by any construction operations

1.3 UNIT PRICES

A. Rock Measurement: Volume of rock actually removed, measured in original position, but not to exceed the following:

1. 24 inches outside of concrete forms other than at footings.
2. 12 inches outside of concrete forms at footings.
3. 6 inches outside of minimum required dimensions of concrete cast against grade.
4. 6 inches beneath bottom of concrete slabs on grade.
5. 6 inches beneath invert elevation of pipe in trenches, and the greater of 24 inches wider than pipe diameter or 42 inches wide.

B. Unsuitable Soil Measurement: Volume of soil actually removed, measured in original position, but not to exceed the limits directed by the Owner’s Independent Testing Agency.

C. Replacement Material Measurement: Volume exactly equal to that of the unsuitable soil or rock that was removed, measured in original position.

D. Unit prices for unsuitable soil and rock removal shall include all work and materials as defined in Division 01 sections.

1.4 DEFINITIONS

A. Excavation consists of the removal of material encountered to subgrade elevations and the reuse or disposal of materials removed. Refer to the following section for additional definitions of classified excavations.

B. Subgrade: The uppermost surface of an excavation or the top surface of a fill or backfill immediately below base course, drainage fill, or topsoil materials.

C. Borrow: Soil material obtained off-site when sufficient approved soil material is not available from excavations.

D. Surface Course: The top layer of the pavement structure placed on base course or subgrade.

E. Base Course: Layer placed between the subgrade elevation and asphalt paving courses.

F. Bedding Course: Layer placed over excavated subgrade in a trench before laying pipe.

G. Unauthorized excavation consists of removing materials beyond indicated subgrade elevations or dimensions without direction by the Architect and/or Civil Engineer. Unauthorized excavation, as well as remedial work directed by the Architect and/or Civil Engineer, shall be at the Contractor's expense.

H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below ground surface.

I. Utilities include on-site underground pipes, conduits, ducts, and cables, as well as underground services within building lines.

1.5 EXCAVATION CLASSIFICATIONS

A. Excavation Classifications: All excavation is classified as General Excavation except for Rock and Unsuitable Soil Materials as defined in this section.

1. General Excavation: Excavation, removal and/or disposal of pavements and other obstructions visible on surface; underground structures, utilities, and other items indicated to be demolished and/or removed; together with soil, boulders, and other materials encountered that are not classified as rock, unsuitable soil, or unauthorized excavation.

    a. Intermittent drilling, blasting, or ripping to increase production and not necessary to permit excavation of material encountered will be considered general excavation.
    b. Soil (irregardless of nature) or other debris encountered above proposed subgrade elevations shall be considered general excavation unless determined by the Architect and/or Civil Engineer to meet the definintion of rock.

2. Unsuitable Soil Excavation: Removal and disposal of soil materials or other debris encountered at or below proposed subgrade elevations which is deemed unsuitable to remain in place by the Architect and/or Civil Engineer or Owner’s independent testing agengy.

    a. Soil and/or other debris encountered above proposed subgrade elevations shall be considered general excavation.
    b. Soil material which, in the opinion of the Architect and/or Civil Engineer or Owner’s independent testing agency, can be repaired by scarifying, drying and recompacting or material which is made unsuitable by delay of work, lack of protection or other actions of the Contractor or his Sub-Contractors shall not be considered as unsuitable soil and shall be repaired or replaced by the Contractor at no additional cost to the Owner.
    c. Soil drying procedures shall consist of but not be limited to a minimum of 5 consecutive days of acceptable weather and then reassessment by the Owner’s independent testing agency.
    d. Any material moved or removed without the measurement by the Owner’s independent testing agency and approval by the Architect and/or Civil Engineer will be considered as general excavation.
    e. Surface topsoil, regardless of thickness encountered, shall not be considered unsuitable soil.

f. Stones, rocks and boulders not meeting classifications of rock shall not be considered unsuitable soil. Stones, rocks and boulders shall be removed from soil as necessary if soil is to be used as fill or backfill. Removed stones, rocks and boulders shall be removed from the site.

3. Mass rock Excavation: Removal, in open excavations, of rock material in beds, ledges, unstratified masses, conglomerate deposits, and boulders of rock material that exceed 1.5-cu.yd. that cannot be removed by rock excavating equipment equivalent to the following in size and performance ratings, without systematic drilling, ram hammering, ripping, or blasting, when permitted. In the event rock (as defined above) is encountered, the Contractor shall immediately notify the Architect and/or Civil Engineer.

   a. Mass Rock Excavation Equipment: Late-model, track-type CAT D-8 crawler tractor operating at one mile per hour in the lowest available gear, and at the highest normal operating rpm pulling a sharp, single-toothed ripper. The Contractor shall provide equipment specification and test data verifying that the equipment to be used for demonstration purposes complies with the minimum requirements. The equipment shall be in good repair and in proper working condition. The Owner reserves the right to inspect and approve the backhoe to be used for demonstration purposes. The Contractor shall demonstrate (at no additional cost) to the Architect and/or Civil Engineer or Owner's independent testing agency that the rock cannot be practically ripped with equipment equivalent that specified above without systematic drilling and blasting. Mass rock is defined as material which, after 1 hour of continuous ripping using the equipment described above, produces less than 10 cubic yards of removeable material.

4. Trench Rock Excavation: Removal, in trench excavations, of rock material in beds, ledges, unstratified masses, conglomerate deposits, and boulders of rock material that exceed 1.0-cu.yd. that cannot be removed by rock excavating equipment equivalent to the following in size and performance ratings, without systematic drilling, ram hammering, ripping, or blasting, when permitted. In the event rock (as defined above) is encountered, the Contractor shall immediately notify the Architect and/or Civil Engineer.

   a. Trench rock excavation equipment: Late-model, track mounted CAT 330 or equivalent hydraulic excavator equipped with a narrow bucket with new rock teeth and operating at the highest normal operating RPM. The Contractor shall provide equipment specification and test data verifying that the equipment to be used for demonstration purposes complies with the minimum requirements. The equipment shall be in good repair and in proper working condition. The Owner reserves the right to inspect and approve the backhoe to be used for demonstration purposes. Trench rock is defined as material which, after 1 hour of continuous digging using the equipment described above, removes at less 10 cubic yards material.

5. Classified excavation requrements:

   a. Excavations more than 10 feet in width and pits more than 30 feet in either length or width are defined as open excavations. Excavations less than 10 feet in width and pits less than 30 feet in both length and width are defined as trench excavations.
   b. Contractor shall expose and clean the rock material for inspection and measurement by the Architect, Civil Engineer, and/or Owner's independent testing agency.
   c. Do not excavate rock or unsuitable soil until it has been classified and cross-sectioned by the Owner's independent testing agency or Architect and/or Civil Engineer. Any material moved or removed without the measurement by the Owner's independent testing agency and approval by the Architect and/or Civil Engineer will be considered as unclassified excavation.
   d. The Architect and/or Civil Engineer shall be the final judge on what is classified as unsuitable or rock excavation.

e. The contractor may be required to provide equipment specification data verifying that the above minimum-rated equipment will be used for demonstration purposes. The equipment shall be in good repair and in proper working condition.
f. Rippable rock, weathered rock or overburden which is not classified as rock according to the above definitions shall be considered General Excavation.

1.6 SUBMITTALS

A. General: Submit the following according to the Conditions of the Contract and Division 01 Specification Sections.

B. Test Reports: In addition to test reports required under field quality control, submit the following:

1. Laboratory analysis of each soil material proposed for fill and backfill from on-site and borrow sources.
2. One optimum moisture-maximum density curve for each soil material.
3. One Standard and/ or Modified Proctor test depending on the intended location of the material.
4. Reports of all laboratory and field tests including evaluations of subgrades and foundation bearing conditions.
5. As-built survey of athletic fields, courts and tracks demonstrating compliance with specified tolerances.

C. Blasting plan approved by authorities having jurisdiction if applicable due to on-site rock.

D. Report of rock or unsuitalble soil removal with quantities confrimed in writing by the Architect and/or Civil Engineer or Owner’s independent testing agency.

1.7 QUALITY ASSURANCE

A. Codes and Standards: Perform earthwork complying with requirements of authorities having jurisdiction. Any earthwork required for preparation of parking areas and drives shall comply with current NCDOT Standard Specifications as per the North Carolina Construction Manual.

B. Comply with applicable requirements of NFPA 495--Explosive Materials Code.

C. Testing and Inspection Service: Owner will employ a qualified independent geotechnical engineering testing agency to classify proposed on-site and borrow soils to verify that soils comply with specified requirements and to perform required field and laboratory testing.

1. Off-site borrow material, if any, shall be tested and inspected prior to it's use. All soil tests done to qualify off-site fill material for use on-site shall be paid by the Contractor as well as compaction retests required due to failure of the original tests.

D. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Division 01.

1. Before commencing earthwork, meet with representatives of the governing authorities, Owner, Architect and/or Civil Engineer, consultants, Geotechnical Engineer, independent testing agency, and other concerned entities. Review earthwork procedures and responsibilities including testing and inspection procedures and requirements. Notify participants at least 3 working days prior to convening conference. Record discussions and agreements and furnish a copy to each participant.

1.8 PROJECT CONDITIONS

A. Existing Utilities: Do not interrupt existing utilities serving facilities occupied by the Owner or others except when permitted in writing by the Architect and/or Civil Engineer and then only after acceptable temporary utility services have been provided.

1. Provide a minimum 48-hours' notice to the Architect and/or Civil Engineer and receive written notice to proceed before interrupting any utility.

B. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies to shutoff services if lines are active.

1.9 PAYMENT

A. General Excavation: All general excavation to the lines and grades indicated on the drawings including all necessary off-site disposal of excess materials and/or off-site borrow of fill materials shall be included in the base bid.

1. No statement is made or implied that the on-site grading and earthwork indicated on the drawings is balanced.

B. Unsuitable Soil Material Excavation: Unsuitable soil material excavation in excess of the project allowances will be paid by unit prices included in the Contract Documents.

1. Unused amounts of monies included under allowances shall be credited to the Owner by deduct change order.

C. Rock Excavation: Rock excavation in excess of the project allowances will be paid by unit prices included in the Contract Documents.

1. Unused amounts of monies included under allowances shall be credited to the Owner by deduct change order.

1.10 ADDITIONAL WORK

A. Claims for concealed, unknown, or unanticipated subsurface conditions are limited to those circumstances where:
1. Additional excavation work is required below the contract limits indicated to provide acceptable bearing for building pad, structures or pavements.
2. Additional excavation work is required to raise, lower, or revise the footings, foundations or other parts of the building to provide acceptable bearing.
3. Additional excavation work <u>below the bottom of utility trench elevations</u>, for utilities outside the limits of the building, as required to provide acceptable bearing for the utility.
4. Rock is encountered between existing grade and design subgrade.

B. The risks of concealed, unknown, or unanticipated subsurface conditions (except for rock) from existing ground surface to the design subgrade elevations in cut areas and to subsoil elevations in fill areas shall be included in the Contract Amount and <u>shall not be considered as grounds for additional costs to the Contract</u>. The risks of concealed, unknown, or unanticipated subsurface conditions below the elevations stated above shall be considered as Additional Excavation.

C. During construction, if concealed, unknown, or unanticipated subsurface conditions are encountered which require that footings, foundations or other parts of the building be raised, lowered or revised to provide acceptable bearing for the building or if, outside the building limits, additional depth of utility trench

excavation below the design subgrade or subsoil elevations is required, immediately notify the Architect and/ or Civil Engineer discovery of such condition prior to disturbing the material encountered.

D. Payment for additional Work
   1. Additional excavation shall be counted toward the unit price allowances established in the Bid Form. *The Owner reserves the right to negotiate said unit price allowances prior to the Award of Contract.*
   2. Lowering of footings shall be paid for at a negotiated amount. The additional excavation involved shall be counted toward the unit price allowance.
   3. Rock removal, if required, shall be counted toward the unit price allowances established in the Bid Form. All rock removal required to complete work other than trenching shall be paid for at the unit price for mass rock removal. Rock payment lines are limited to the following:
      a. Two feet outside of concrete work for which forms are required, except footings.
      b. One foot outside perimeter of footings, two feet below bottom of footings.
      c. In pipe trenches, 6 inches below invert elevation of pipe and 2 feet wider than outside diameter of pipe, but not less than 3 feet minimum trench width.
      d. Outside dimensions of concrete work where no forms are required.
      e. Under slabs on grade, 6 inches below bottom of concrete slab.
   4. No payment will be made for unauthorized excavation.
   5. The expense of surveying quantities of rock removal and additional excavation shall be included in the unit price allowances.

1.11 EARTHWORK BALANCE ADJUSTMENTS

A. Should material be required to be imported or exported to achieve the finish grades indicated on the drawings, importation and excavation and disposal off-site in a legal manner of the required material shall be a contract responsibility. No additional payment will be made for these operations.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. General: Provide approved borrow soil materials from off-site when sufficient approved soil materials are not available from excavations.

B. Satisfactory Soil Materials: ASTM D 2487 soil classification groups GW, GC, GP, GM, ML, CL, SW, SP, SC, and SM; contain less than 5% organics and free of rock or gravel larger than 3 inches (50 mm) in any dimension, debris, waste, frozen materials, vegetation and other deleterious matter; with a Plasticity Index less than 20 and a Liquid Limit less than 50.

   1. Soils free of organics and having a plasticity index greater than 20 and a liquid limit greater than 50 may be used as fill in approved non-structural areas.
   2. CH and MH soils having plasticity indicies great than 20 may also be used as fill in deep fill sections placed at -1% to +3% of optimum and at least 3-ft below planned subgrade elevations in pavement, building or other structural areas with the exception of ponds
   3. Satisfactory soil materials obtained from off-site borrow sources shall meet all requirements listed above, however Plasticity Index shall be less than 20 for those used under roadways or structures.

C. Unsatisfactory Soil Materials: ASTM D 2487 soil classification groups MH, CH, OL, OH, and PT. Soils having a Plasticity Index greater than 20 and a Liquid Limit greater than 50 are also unsatisfactory within structural (building and pavement) areas except if placed as specified above.

D. Unsuitable Soil: Existing, in-place soil, materials or other debris encounterd at or below proposed subgrade elevations deemed unsuitable by the Geotechnical firm, to remain in place and/or for use as fill or backfill material or subgrade. Soil material which, in the opinion of the Geotechnical firm, can be repaired by scarifying, drying and recompacting and/or material which is made unsuitable by delay of work, lack of

protection or other actions of the Contractor or his Sub-Contractors shall not be considered as unsuitable material and shall be repaired or replaced by the Contractor at no additional cost to the Owner. Moisture content alone shall not be the determining factor as to the presence of unsuitable soil. Topsoil shall not be considered unsuitable regardless of thickness from the exisiting ground surface.

E. Backfill and Fill Materials: Satisfactory soil materials.

F. Base Course Material: Type A, B or C aggregate base course meeting the requirements of NCDOT "Standard Specifications for Roads and Structures."

G. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

H. Bedding Material: #57 washed stone.

I. Drainage Fill: #57 washed stone.

J. Filtering Material/Stone: #57 washed stone.

K. Filter Sand: Washed, coarse to very coarse sand,1.0 mm to 2.0 mm particles.

L. Impervious Fill and Clay Liner: Clayey or silty soil mixtures capable of compacting to a dense state with an maximum permeability of (1x10^-7 cm/s) 0.00014-in/hr compacted to at least 95% of the maximum dry density per ASTM D-698. ASTM D 2487 soil classification groups CH, CL, SC ; free of rock, brush, roots, and other organic material subject to decomposition.

2.2 PROCESSED AGGREGATE MATERIALS

A. Base Course Material: Type A aggregate base course meeting the requirements of Section 520 of NCDOT "Standard Specifications for Roads and Structures."

B. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

C. Bedding Material: #57 washed stone.

D. Drainage Fill: #57 washed stone.

E. Filtering Material: #57 washed stone.

F. Coarse Sand: Grain Size Distribution (ASTM C136-95A):

Sieve Size	Percent Passing
3/8"	100
#4	95-100
#8	85-97
#16	60-80
#30	10-20
#50	5-15
#100	0-5

G. Segmental Wall Backfill: All backfill material to be placed in the reinforced zone of segmental walls shall be imported, tested, and specifically approved by the wall's design engineer and the Owner's independent testing agency.

H. Bioretention Soil Mixture: Soil mix shall be uniform and free of stones, stumps, roots or other similar material greater than 2-inchres. Soil mixture shall be analyzed by the NC Dept. of Agriculture. Analysis reports shall be submitted for review prior to placement of soil mixture in the bioretention cell.

1. Soil Components by dry weight.
   a. Coarse Sand: 85% - 88%.
   b. Silt and Clay: 8% - 12%.
   c. Organic Matter (peat moss): 3% - 5%.
2. Phosphorous Index (P-Index): 15 minimum, 30 maximum.
3. pH Range: 5.2 – 7.0.
4. Permeability: 1-in/hr minimum, 6-in/hr maximum, 1-2-in/hr preferred.

2.3 ACCESSORIES

A. Drainage (Filter) Fabric: Nonwoven geotextile, specifically manufactured as a drainage geotextile; made from polyolefins, polyesters, or polyamides; and with the following minimum properties determined according to ASTM D 4759 and referenced standard test methods:

1. Grab Tensile Strength: 110 lbf (490 N); ASTM D 4632.
2. Tear Strength: 40 lbf (178 N); ASTM D 4533.
3. Puncture Resistance: 50 lbf (222 N); ASTM D 4833.
4. Water Flow Rate: 150 gpm per sq. ft. (100 L/s per sq. m); ASTM D 4491.
5. Apparent Opening Size: No. 50 (0.3 mm); ASTM D 4751.

B. Separation Fabric: Woven geotextile, specifically manufactured for use as a separation geotextile; made from polyolefins, polyesters, or polyamides; and with the following minimum properties determined according to ASTM D 4759 and referenced standard test methods:

1. Grab Tensile Strength: 200 lbf (890 N); ASTM D 4632.
2. Tear Strength: 75 lbf (333 N); ASTM D 4533.
3. Puncture Resistance: 90 lbf (400 N); ASTM D 4833.
4. Water Flow Rate: 4 gpm per sq. ft. (2.7 L/s per sq. m); ASTM D 4491.
5. Apparent Opening Size: No. 30 (0.6 mm); ASTM D 4751.

C. Biaxial Geogrid: Integrally formed biaxial geogrid, specifically manufactured for use as a base reinforcement for subgrade improvement. Tensar BX1100, Mirafi BXG-11, or approved equal with the following minimum properties determined according to ASTM D 4759 and referenced standard test methods:

1. Aperature Dimensions: 1-in (25-mm) nominal.
2. Minimum Rib Thickness: 0.03-in (0.76-mm) nominal.
3. Tensile Strength @ 2% Strain: 280-lb/ft (4.1 kN/m); ASTM D-6637.
4. Tensile Strength @ 5% Strain: 580-lb/ft (8.5 kN/m); ASTM D-6637.
5. Ultimate Tensile Strength: 850-lb/ft (12.4 kN/m); ASTM D-6637.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

B. Protect subgrades and foundation soils against freezing temperatures or frost. Provide protective insulating materials as necessary.

C. Provide erosion control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

D. Site Maintenance: The Contractor shall be responsible to take whatever measures are necessary to insure reasonable accessibility to and on the construction site so that undue delays are avoided under normal weather conditions. These measures shall include, but not be limited to, the following:

1. Maintaining the surface of the soils in a manner to promote drainage runoff and avoid ponding of water, especially prior to predicted rain events.
2. Avoiding operation of temporary water sources or hoses in a manner which will cause unnecessary and repeated wetting of the site.
3. Fill in severely rutted areas which are ponding water during the construction activities or after rain events with drainage fill material to assist drying and allow construction activities to continue.
4. Provide drying of surface soils and soils intended for filling or backfilling as required to promote accelerated drying of those materials.
5. After successful drying efforts or prior to predicted rain events, grade the areas back to a smooth condition to promote drainage runoff.
6. Controlling vehicular traffic, both construction and personal on the site in a manner to prevent undue damage to soils whenever possible and practical.
7. Providing temporary staging areas of crushed stone or other materials around the construction site which will better withstand the weather and traffic and keep the site accessible immediately or shortly after rain events.
8. Provide de-watering equipment for any areas collecting water which may affect construction or soil densities under built areas.
9. Any claims for weather related delays considered shall be considered with particular attention paid to the Contractor's efforts in regard to the above requirements

3.2 DEWATERING

A. Prevent surface water and subsurface or ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

B. Protect subgrades and foundation soils from softening and damage by rain or water accumulation.

1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
2. Install a dewatering system to keep subgrades dry and convey groundwater away from excavations. Maintain until dewatering is no longer required.

C. Soft wet soils, if present at the surface, shall be dried in place by the Contractor prior to placing fill. Drying shall be accomplished by discing, plowing or other means necessary and shall be included in the Contractor’s bid. Site soils are typical of the area and susceptible to loss of strength if they become wet, resulting in softening and rutting during construction. Site soils are extremely moisture sensitive, therefore, the Contractor shall take active and aggressive steps to dry soil materials wet of optimum to maintain construction progress through the work and to maintain access to and around the construction. The Contractor, at his option and cost may remove unstable, wet materials and replace with available fill materials in lieu of accomplishing soil drying procedures.

3.3 EXPLOSIVES

A. Explosives: Do not use explosives without written permission of local authorities. Contractor shall provide all consultation, engineering, supervision, expertise, experience, and test blasting as required to protect surrounding structures and to meet the performance requirements of the local authorities.

3.4 STABILITY OF EXCAVATIONS

A. Comply with local codes, ordinances, and requirements of authorities having jurisdiction to maintain stable excavations. Contractor is responsible for ensuring all excavation operations and other construction comply with applicable OSHA requirements. Contractor shall provide temporary shoring and bracing as needed to construct the proposed improvements and comply with the above requirements.

3.5 EXCAVATION FOR STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. Extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

B. Excavations for Fottings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

3.6 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks and pavements to indicated cross sections, elevations, and grades.

3.7 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated slopes, lines, depths, and invert elevations.

1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.

B. Excavate trenches to uniform widths to provide a working clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches (300 mm) higher than top of pipe or conduit, unless otherwise indicated.

1. Clearance: As indicated

C. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove stones and sharp objects to avoid point loading.

1. For pipes or conduit less than 6 inches (150 mm) in nominal diameter and flat-bottomed, multiple-duct conduit units, hand-excavate trench bottoms and support pipe and conduit on an undisturbed subgrade.
2. For pipes and conduit 6 inches (150 mm) or larger in nominal diameter, shape bottom of trench to support bottom 90 degrees of pipe circumference. Fill depressions with tamped sand backfill.
3. Where encountering rock or another unyielding bearing surface, carry trench excavation 6 inches (150 mm) below invert elevation to receive bedding course.

3.8 APPROVAL OF SUBGRADE PRIOR TO PLACING FILL OR OTHER IMPROVEMENTS

A. Notify Architect and/or Civil Engineer when excavations have reached required subgrade.

B. After stripping is complete the exposed subgrade shall be proofrolled with a fully loaded dual wheel tandem axial dump truck or similar construction equipment deemed sufficient by the Owner’s indepenmdent testing agency. Four passes shall be made in each orthogonal direction. The proofrolling operation shall be observed by the Owner’s indepenedent testing agency. Should any area fail to tighten up after proofrolling and continue to rut and/or pump, the soil shall be scarified and moistened or aerated and recompacted. Repeat proofrolling operations.

C. When Architect and/or Civil Engineer or Owner's independent testing agency determines that unforeseen unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.

1. Unforeseen additional excavation and replacement with suitable material approved by the Architect and/or Civil Engineer will be considered unsuitable material and will be paid by unit prices included in the Contract Documents. Refer to Division 01 Sections.

D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect and/or Civil Engineer. Install french drains at design subgrade if directed by the Owner's independent testing agency and approved by the Architect and/or Civil Engineer.

3.9 UNAUTHORIZED EXCAVATION

A. Fill unauthorized excavation under foundations or wall footings by extending indicated bottom elevation of concrete foundation or footing to excavation bottom, without altering required top elevation. Lean concrete fill may be used to bring elevations to proper position when acceptable to the Architect and/or Civil Engineer.

1. Fill unauthorized excavations under other construction as directed by the Architect and/or Civil Engineer or the Owner's independent testing agency.

B. Where indicated widths of utility trenches are exceeded, provide stronger pipe, or special installation procedures, as required by the Architect and/or Civil Engineer.

3.10 STORAGE OF SOIL MATERIALS

A. Stockpile excavated materials acceptable for backfill and fill soil materials, including acceptable borrow materials. Stockpile soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent wind-blown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.11 BACKFILL

A. Backfill excavations promptly, but not before completing the following:

1. Acceptance of construction below finish grade including, where applicable, dampproofing, waterproofing, and perimeter insulation.
2. Surveying locations of underground utilities for record documents.
3. Testing, inspecting, and approval of underground utilities.
4. Concrete formwork removal.
5. Removal of trash and debris from excavation.
6. Removal of temporary shoring and bracing, and sheeting.
7. Installing permanent or temporary horizontal bracing on horizontally supported walls.
8. Removal of objectionable materials, including rocks larger than acceptable size, from backfill soils.

3.12 UTILITY TRENCH BACKFILL

A. Place and compact bedding course on rock and other unyielding bearing surfaces and to fill unauthorized excavations. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

B. Pipe sleeves and concrete backfill trenches that carry below or pass under footings and that are excavated within 18 inches (450 mm) of footings. Place concrete to level of bottom of footings. Contact the Architect

and/or Civil Engineer or the Owner's independent testing agency to coordinate details, procedures and possible alternatives.

C. Provide 4 inch (100 mm) thick concrete base slab support for piping or conduit less than 30 inches (750 mm) below surface of roadways. After installation and testing, completely encase piping or conduit in a minimum of 4 inches (100 mm) of concrete before backfilling or placing roadway base course.

D. Place and compact initial backfill of satisfactory soil material or base course material, free of particles larger than 1 inch (25 mm), to a height of 12 inches (300 mm) over the utility pipe or conduit.

1. Carefully compact material under pipe haunches and bring backfill evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of utility system.

E. Coordinate backfilling with utilities testing.

F. Fill voids with approved backfill materials as shoring and bracing, and sheeting is removed.

G. Place and compact final backfill of satisfactory soil material to final subgrade.

H. Install detectable warning tape and copper wire directly above utilities, 12 inches (300 mm) below finished grade, except 6 inches (150 mm) below subgrade under pavements and slabs.

3.13 FILL

A. Preparation: Remove vegetation, topsoil, debris, wet, and unsatisfactory soil materials, obstructions, and deleterious materials from ground surface prior to placing fills.

1. Plow strip, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing surface.

B. Obtain approval of subgrade as specified prior to placing fill.

C. Place fill material in layers to required subgrade elevations for each location listed below.

1. Under grass, use satisfactory excavated or borrow soil material.
2. Under walks, pavements, buildings and other structural areas use base course material, or satisfactory excavated or borrow soil material.
3. Pond embankments, use impervious fill.

D. Following placement of fill the subgrade of building and pavement areas shall be proofrolled as described in the Field Quality Control section. The proofrolling operation shall be observed by the Owner's testing agency. Should any area fail to tighten up after proofrolling and continue to rut and/or pump, the soil shall be scarified and moistened or aerated and recompacted. Repeat proofrolling operations.

F. Deep Fill Settlement: Areas of the site to receive more than 8 feet of fill shall be filled to suhgrade elevations and allowed to settle for a period of 60-days prior to additional construction on the fill. Deep fill settlement hubs may be installed and monitored in-lieu of the 60-day waiting period.

G. Deep Fill Settlement Hubs: Install at least 2 settlement hubs (18-in long rebar or similar) at the surface of fill in the building area where fill depths exceed 8 feet. Record daily elevation measurements of hubs and provide data to the Architect and/or Civil Engineer and the Owner's independent testing agency. Do not begin building construction until the Owner's independent testing agency has confrimed that any fill-induced settlement has subsided and approval to proceed is granted by the Architect and/or Civil Engineer.

H. Overbuild Deep Fill Slopes: Overbuild fill slopes in building or pavement areas that are taller than 6 feet and cut back to firm material following compaction. Fill slopes taller than 6 feet shall be overbuilt a sufficient distance to achieve required compaction at the design slope surface.

I. Settlement Plates: Provide and monitor three settlement plates to evaluate the settlement occurring during and after fill placement. Locate the settlement plates as indicated on Drawings or as recommended by the Owners Geotechnical Engineer. Record the elevation of the top of the settlement plate twice weekly until settlement has slowed to a point satisfactory to the Owners Geotechnical Engineer. Settlement plate readings shall be made to an accuracy of 0.01' and shall be referenced to a benchmark well beyond the influence of the fill being placed and protected from construction equipment disturbance. Take precautions to prevent damaging or disturbing the settlement plates during construction operations. Providing, maintenance and monitoring of the settlement plates is part of the Work. Base bids on a settlement period of 45 calendar days commencing at the time final subgrade elevations in the area are attained.

3.14 MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill layer before compaction to +/- 3% of optimum moisture content.

1. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air-dry satisfactory soil material that is too wet to compact to specified density.

    a. Stockpile or spread and dry removed wet satisfactory soil material.

3.15 COMPACTION

A. Place backfill and fill materials in layers not more than 8-10 inches (200 mm) in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches (100 mm) in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill materials evenly on all sides of structures to required elevations. Place backfill and fill uniformly along the full length of each structure.

C. Percentage of Maximum Dry Density Requirements: Compact soil to not less than the following percentages of maximum dry density according to ASTM D698 Standard Proctor:

1. Under structures, steps, walks, courts, tracks, and pavements, compact the top 12 inches below subgrade at 98% and each layer of backfill or fill material at 95% of the standard Proctor Density (ASTM D-698). Moisture content of the fill during placement shall be kept within 3% from the optimum moisture.
    a. Under pavements within NCDOT rights-of-way or new pavement to be constructed to NCDOT standards compact the top 8 inches below pavement subgrade to at least 100% density in accordance with AASHTO T-99 as modified by NCDOT.
2. Under lawn or unpaved areas, compact the top 6 inches below subgrade and each layer of backfill or fill material at 90 percent maximum dry density.
3. In pond embankments, compact each layer of backfill or fill material at 95% of the standard Proctor Density (ASTM D-698). Moisture content of the fill during placement shall be kept within 3% of optimum.
4. Compact each layer of aggregate base material under pavement to 100% density in accordance with AASHTO T-180 as modified by NCDOT.
5. Avoid compaction of Bio-retention soil mixture. Place soil mixture in deep, uncompacted lifts and sequence backfill to keep heavy equipment (larger than a Skid Steer) off backfilled soil.

3.16 GRADING

A. General: Uniformly grade areas to a smooth surface, free from irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

1. Provide a smooth transition between existing adjacent grades and new grades.
2. Cut out soft spots, fill low spots, and trim high spots to conform to required surface tolerances.

B. Site Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Lawn or Unpaved Areas: Plus or minus 1.2 inches (0.10 foot).
2. Walks: Plus or minus 1.2 inches (0.10 foot).
3. Pavements: Plus or minus 1/2 inch (0.05 foot).
4. Athletic Fields:
    a. Subgrade: Plus or minus 1.2 inches (0.10 foot).
    b. Final Grade (Topsoil): Plus or minus 1/2 inch (0.05 foot) when tested with a 10 foot straightedge. Surfaces shall be top dressed following establishment of grass as necessary to obtain smooth , consistant playing surface.
5. Pond Embankments: Construct embankment to an elevation 10% higher than the design height to allow for settling.

3.17 SUBSURFACE / FOUNDATION DRAINAGE

A. Drainage Piping: Drainage pipe is specified in Division 33 Section "Storm Utility Drainage Piping."

B. Subsurface and Foundation Drains: Place a layer of drainage fabric around perimeter of drainage trench. Place a course of drainage fill material on drainage fabric to support drainage pipe. Encase drainage pipe in drainage fill material overlapping sides and ends at least 6 inches.

1. Compact each course of drainage fill material.
2. Place satisfactory excavated or borrow soil material or topsoil fill material (as appropriate) over drain to final grade.

3.18 BASE COURSES

A. Under pavements, walks, courts and tracks, place base course material on prepared subgrades.

1. Compact base courses at optimum moisture content to required grades, lines, cross sections and thickness to not less than 100 percent density in accordance with AASHTO T-180 as modified by NCDOT.
2. Shape base course to required crown elevations and cross-slope grades.
3. When thickness of compacted base course is 6 inches or less, place materials in a single layer.
4. When thickness of compacted base course exceeds 6 inches, place materials in equal layers, with no layer more than 6 inches (150 mm) thick or less than 3 inches (75 mm) thick when compacted.
5. Following compaction testing and within 48 hours prior to the application of asphalt or concrete pavement, the aggregate base course shall be proofrolled with a fully loaded dual wheel tandem axial dump truck or similar construction equipment deemed sufficient by the Owner’s indepenmdent testing agency. Four passes shall be made in each orthogonal direction. The proofrolling operation shall be observed by the Owner’s independent testing agency. Should any area fail to tighten up after proofrolling and continue to rut and/or pump, the base course shall be scarified and moistened or aerated and recompacted. Repeat proofroll testing.

B. Pavement Shoulders: Place shoulders along edges of base course to prevent lateral movement. Construct shoulders at least 12 inches (300 mm) wide of acceptable soil materials and compact simultaneously with each base course layer.

3.20 FIELD QUALITY CONTROL

A. Testing Agency Services: Allow testing agency to inspect and test each subgrade and each fill or backfill layer. Do not proceed until test results for previously completed work verify compliance with requirements.

1. Perform field in-place density tests according to ASTM D 1556 (sand cone method), or equal.
2. Paved Areas (including courts and tracks): At subgrade and at each compacted fill and backfill layer, perform at least one field in-place density test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests. Observe proofrolling of finished subgrade and aggregate base course.
3. Trench Backfill: Perform at least one field in-place density test per 2 feet of backfill per 200 linear feet or less of trench, but no fewer than two tests per trench per day.
4. Pond Embankments: At subgrade and at each compacted fill and backfill layer, perform at least one field in-place density test for every 200 linear ft. or less of embankment, but in no case fewer than 10 tests. Monitor use of impervious fill as embankment materials.
5. Non-Structural Areas: Field density and moisture content tests shall be performed on the fill and backfill at a rate of one test per every 5,000 square yards of fill per lift, per day

B. When testing agency reports that subgrades, fills, or backfills are below specified density, scarify and moisten or aerate, or remove and replace soil to the depth required, recompact and retest until required density is obtained.

C. Proofrolling: Subgrade to receive fill, finish subgrade of building or pavement areas, and aggregate base courses shall be proofrolled with a fully loaded dual wheel tandem axial dump truck or similar construction equipment deemed sufficient by the Owner’s indepenmdent testing agency Four passes shall be made in each orthogonal direction. The proofrolling operation shall be observed by the Owner’s independent testing agency. Should any area fail to tighten up after proofrolling and continue to rut and/or pump, the soil shall be scarified and moistened or aerated and recompacted. Repeat proofrolling operations.

D. Perform evaluation of soils to be used as embankment fill.

3.21 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and re-establish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or lose compaction due to subsequent construction operations or weather conditions.

1. Scarify or remove and replace material to depth directed by the Architect and/or Civil Engineer; reshape and recompact at optimum moisture content to the required density.

C. Settling: Where settling occurs during the Project correction period, remove finished surfacing, backfill with additional approved material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to the greatest extent possible.

3.22 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Disposal: Remove surplus soil and waste material, including unsatisfactory soil, excess topsoil, trash, and debris, and legally dispose of it off the Owner's property.

END OF SECTION 31 20 00

LEE COUNTY SCHOOLS TRANSPORTATION FACILITY

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SURVEYOR
RILEY SURVEYING, P.A.
CONTACT: PHILLIP RILEY, PLS
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DURHAM, NC 27707
PHONE: 919-667-0742

Sheet List Table

Sheet Number	Sheet Title
C-000	COVER SHEET
~~C-100~~	~~EXISTING CONDITIONS AND DEMOLITION PLAN~~
C-200	EROSION CONTROL PHASE I
C-201	EROSION CONTROL PHASE II
C-202	EROSION CONTROL PHASE III
~~C-300~~	~~SITE STAKING PLAN~~
~~C-400~~	~~UTILITY PLAN~~
~~C-401~~	~~SANITARY SEWER PROFILES~~
~~C-402~~	~~WATERLINE PROFILES~~
~~C-403~~	~~WATERLINE PROFILES~~
~~C-500~~	~~GRADING AND DRAINGE PLAN~~
~~C-501~~	~~SPOT GRADING PLAN~~
C-502	STORM SEWER PROFILES
~~C-503~~	~~STORM SEWER PROFILES~~
~~C-504~~	~~SCM DETAILS~~
~~C-505~~	~~STORMWATER COMPLIANCE PLAN~~
C-600	NOTES AND DETAILS
~~C-601~~	~~NOTES AND DETAILS~~
~~C-602~~	~~NOTES AND DETAILS~~
~~C-603~~	~~NOTES AND DETAILS~~
~~C-604~~	~~NOTES AND DETAILS~~
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C-608	NOTES AND DETAILS
C-609	NOTES AND DETAILS
C-610	NOTES AND DETAILS
C-611	NOTES AND DETAILS
C-612	NOTES AND DETAILS
~~L-700~~	~~PLANTING PLAN~~
~~L-701~~	~~NOTES AND DETAILS~~



VICINITY MAP
1" = 1000'

GENERAL CONDITIONS OF APPROVAL:
1. ALL CONSTRUCTION SHALL CONFORM TO CITY OF SANFORD DESIGN AND CONSTRUCTION STANDARDS.
2. IF THERE IS A GEODETIC MONUMENT LOCATED ON THIS SITE, IT MUST BE PROTECTED OR IF RELOCATION IS NEEDED IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER TO RELOCATE IT WITH SURVEY ACCURACY.
3. ALL NEW UTILITY LINES (POWER, CABLE, ETC.) MUST BE UNDERGROUND.

GENERAL SITE NOTES
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF SANFORD AND NCDOT STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR ACTIVITIES. CALL UTILITY LOCATOR SERVICE BEFORE DIGGING.
3. ALL STREETS SHALL BE PUBLIC.
4. ALL UTILITIES SHALL BE UNDERGROUND.
5. EACH LOT WILL BE SERVED BY CITY OF SANFORD PUBLIC WATER.
6. EACH LOT WILL BE SERVED BY CITY OF SANFORD PUBLIC SEWER.
7. NCDEQ EROSION CONTROL PERMIT WILL BE REQUIRED, AND ALL EROSION CONTROL REGULATIONS WILL BE COMPLIED WITH.
8. CONSTRUCTION DRAWINGS MUST BE APPROVED PRIOR TO CONSTRUCTION.
9. SIGNAGE SHALL BE APPROVED PRIOR TO INSTALLATION OF ANY SIGNAGE.

SITE DATA TABLE

PROJECT NAME:	LEE COUNTY TRANSPORTATION FACILITY
PROPERTY OWNER	LEE COUNTY BOARD OF EDUCATION
PARCEL IDENTIFICATION NUMBER:	9661-36-6349-00
PROPERTY ADDRESS:	416 COX MADDOX RD, SANFORD, NC 27331
DEED REFERENCE:	DB, 00118 PG, 0450 - 0452
JURISDICTION:	CITY OF SANFORD
CURRENT PROPERTY ZONING:	OFFICE AND INSTITUTIONAL (OI)
PROPOSED PROPERTY ZONING:	OFFICE AND INSTITUTIONAL (OI)
EXISTING USE:	SCHOOL TRANSPORTATION FACILITY
PROPOSED USE:	SCHOOL TRANSPORTATION FACILITY
EXISTING PARCEL AREA:	400,055 SF (9.18 ACRES)
DISTURBED AREA:	8.81 ACRES (± 383,780 SF)
EXISTING IMPERVIOUS AREA:	1.29 ACRES (± 56,317 SF)
EXISTING IMPERVIOUS PERCENTAGE:	14.05%
PROPOSED IMPERVIOUS AREA:	4.09 ACRES (± 178,376 SF)
PROPOSED IMPERVIOUS PERCENTAGE:	44.53%
RIVER BASIN:	CAPE FEAR RIVER
STREAM & CLASSIFICATION	CARRS CREEK; C
WETLANDS	1.57 ACRES (± 68,497 SF) *NO WETLAND DISTURBANCE SHOULD OCCUR
STREAM BUFFERS:	NONE
LANDSCAPE BUFFERS:	
NORTH (STREETYARD):	8'
SOUTH:	A (PROPOSED = CLASS 3; EXISTING = CLASS 3)
EAST:	B (PROPOSED = CLASS 3; EXISTING = CLASS 2)
WEST:	A (PROPOSED = CLASS 3; EXISTING = CLASS 3)
BUILDING SETBACKS:	
MINIMUM FRONT SETBACK:	10'
MINIMUM SIDE SETBACK:	0'
MINIMUM REAR SETBACK:	0'
BUILDING SUMMARY:	
BUILDING TYPE:	TYPE II-B
PARKING SUMMARY (GOVERNMENT FACILITIES, NOT OTHERWISE LISTED):	
EXISTING VEHICULAR SPACES:	25 SPACES (UNSTRIPED)
REQUIRED VEHICULAR SPACES:	1 SPACE PER 600 SF OF GFA EXISTING MAINTENANCE BUILDING: 6,668 SF / 600 = 12 SPACES PROPOSED WAREHOUSE: 6,000 SF / 600 = 10 SPACES PROPOSED TRANSPORTATION FACILITY: 20,092 SF / 600 = 34 SPACES
PARKING SPACES PROVIDED:	48 SPACES
ADA PARKING SUMMARY:	
ADA SPACES REQUIRED:	26 - 50 SPACES: 3 SPACES
ADA SPACES PROVIDED:	3

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NORTH CAROLINA PROFESSIONAL SEAL 045682 ENGINEER William P. Altman
PES-01-2020

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

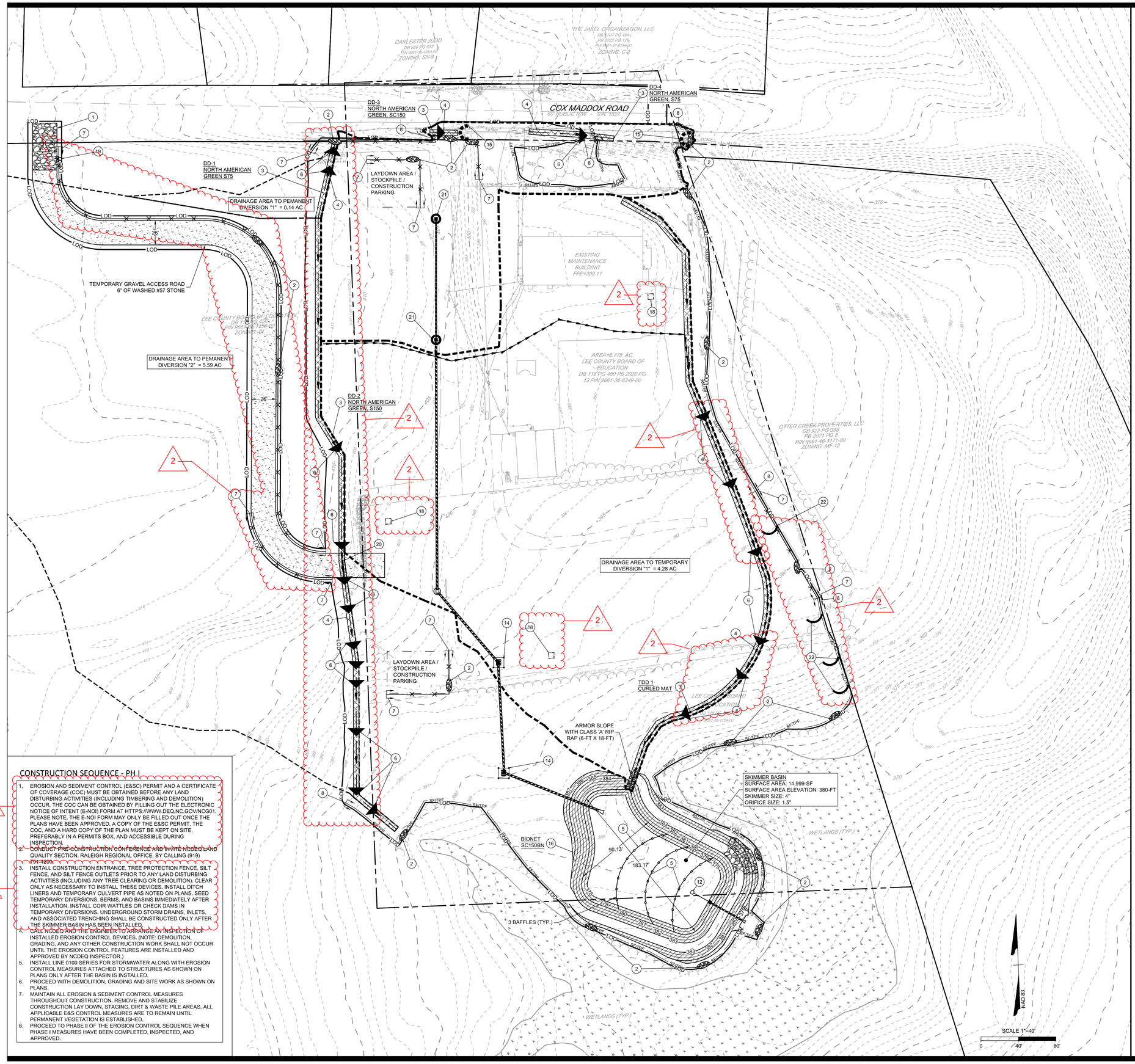
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02	2026.07.13	PLAN REVIEW RESPONSES

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phase Construction Documents
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project number 2514
drawn by: J GLAS
checked by: W ALTMAN

COVER SHEET

Original drawing is 42 x 30. Do not scale contents of this drawing.
sheet number

C-000



GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
2. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
3. THE CONTRACTOR SHALL SECURE THE SITE AT THE END OF EACH WORKING DAY.
4. THE DEVELOPER IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT ON-SITE, IF THE APPROVED EROSION AND SEDIMENTATION CONTROL MEASURES PROVE INSUFFICIENT, THE DEVELOPER MUST TAKE THOSE ADDITIONAL STEPS NECESSARY TO STOP SEDIMENTATION FROM LEAVING THIS SITE.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
9. TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL DEVICES.
10. ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
11. TEMPORARY GROUND COVER MUST BE APPLIED TO INACTIVE AREAS WITHIN 7 DAYS (SLOPES STEEPER THAN 3:1) OR 14 DAYS (SLOPES 3:1 OR FLATTER) OF LAST DISTURBANCE. PERMANENT GROUNDCOVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
12. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT AUTHORIZE IMPACTS TO WETLANDS, COASTAL MARSH, STREAMS OR OTHER WATERS OF THE STATE OR UNITED STATES OR SUPERSEDE ANY OTHER PERMITTING REQUIREMENT OF ANY FEDERAL, STATE, OR LOCAL AGENCY.
13. TOTAL DISTURBED AREA: 8.81 AC.

KEY NOTES

1	GRAVEL CONSTRUCTION ENTRANCE	
2	REINFORCED SILT FENCE OUTLET	
3	TEMPORARY DIVERSION DITCH	
4	TEMPORARY CHANNEL LINING	
5	COIR MESH BAFFLES	
6	CHECK DAM	
7	TEMPORARY SILT FENCE	
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11	TEMPORARY WATTLE	
12	SKIMMER BASIN	
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14	HARDWIRE INLET PROTECTION	
15	ROCK PIPE INLET PROTECTION	
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17	DEWATERING PUMP WITH SILT BAG	
18	CONCRETE WASHOUT AREA	
19	RAIN GAUGE AND PERMIT RECORDS BOX	
20	15" TYPE IV RCP TEMPORARY CULVERT	
21	TEMPORARY EXCAVATED DROP INLET PROTECTION	
22	J-HOOK INSTALLATION	
	LIMITS OF CONSTRUCTION	LOD
	SKIMMER BASIN DRAINAGE AREA	
	EXISTING CONTOUR	53
	PROPOSED CONTOUR	53
	DUST CONTROL	DC

CONSTRUCTION SEQUENCE - PH I

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT HTTPS://WWW.DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION.
2. CONDUCT PRE-CONSTRUCTION CONFERENCE AND INVITE NCDEQ LAND QUALITY SECTION, RALEIGH REGIONAL OFFICE, BY CALLING (919) 791-4200.
3. INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION FENCE, SILT FENCE, AND SILT FENCE OUTLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES (INCLUDING ANY TREE CLEARING OR DEMOLITION). CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES, INSTALL DITCH LINERS AND TEMPORARY CULVERT PIPE AS NOTED ON PLANS. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER INSTALLATION. INSTALL COIR WATTLES OR CHECK DAMS IN TEMPORARY DIVERSIONS. UNDERGROUND STORM DRAINS, INLETS, AND ASSOCIATED TRENCHING SHALL BE CONSTRUCTED ONLY AFTER THE SKIMMER BASIN HAS BEEN INSTALLED.
4. CALL NCDEQ AND THE ENGINEER TO ARRANGE AN INSPECTION OF INSTALLED EROSION CONTROL DEVICES. (NOTE: DEMOLITION, GRADING, AND ANY OTHER CONSTRUCTION WORK SHALL NOT OCCUR UNTIL THE EROSION CONTROL FEATURES ARE INSTALLED AND APPROVED BY NCDEQ INSPECTOR.)
5. INSTALL LINE 0100 SERIES FOR STORMWATER ALONG WITH EROSION CONTROL MEASURES ATTACHED TO STRUCTURES AS SHOWN ON PLANS ONLY AFTER THE BASIN IS INSTALLED.
6. PROCEED WITH DEMOLITION, GRADING AND SITE WORK AS SHOWN ON PLANS.
7. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REMOVE AND STABILIZE CONSTRUCTION LAY DOWN, STAGING, DIRT & WASTE PILE AREAS. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
8. PROCEED TO PHASE II OF THE EROSION CONTROL SEQUENCE WHEN PHASE I MEASURES HAVE BEEN COMPLETED, INSPECTED, AND APPROVED.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045682 William P. Altman
PE-01-2026

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS INSPIRED.

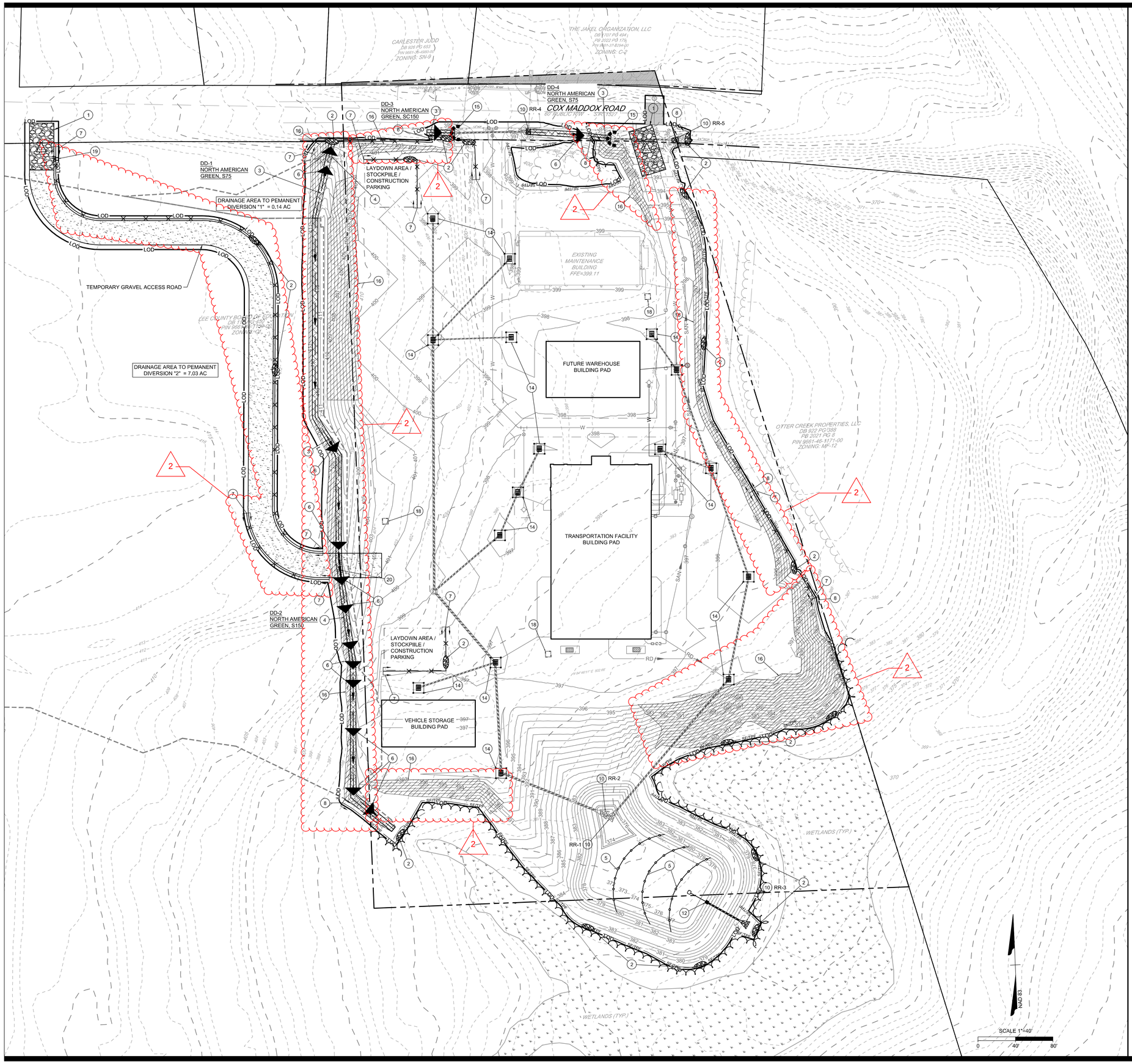
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date 2026.06.25
phase Construction Documents
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project number 2514
drawn by: J GLAS
checked by: W ALTMAN

EROSION CONTROL
PHASE I

Original drawing is 42 x 30. Do not scale contents of this drawing.

sheet number
C-200



GENERAL NOTES

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	LIMITS OF CONSTRUCTION	LOD
	SKIMMER BASIN DRAINAGE AREA	
	EXISTING CONTOUR	53
	PROPOSED CONTOUR	53
	DUST CONTROL	DC

CONSTRUCTION SEQUENCE - PH II

1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE I AND ADJUST AS NEEDED.
2. GRADE SITE AS SHOWN ON PLANS. THE CLEAN WATER DIVERSION DITCH WILL BE IMMEDIATELY STABILIZED ONCE GRADED.
3. INSTALL STORM DRAINAGE SYSTEM AND TEMPORARY BYPASS PIPES AS SHOWN ON PLANS.
4. INSTALL EXCAVATED DROP INLET PROTECTION ON ALL CONCRETE STORM STRUCTURES AS SHOWN ON PLANS.
5. AS THE SITE IS BROUGHT TO GRADE, INSTALL REMAINING UTILITIES INCLUDING WATER AND SANITARY.
6. INSTALL MATTING FOR SLOPES AS SHOWN ON PLANS.
7. STABILIZE THE SITE AND PROCEED TO PHASE III EROSION CONTROL.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045682 WILLIAM P. ALTMAN
PRELIMINARY 01-2026

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Lee County Schools
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CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

rev	date	description
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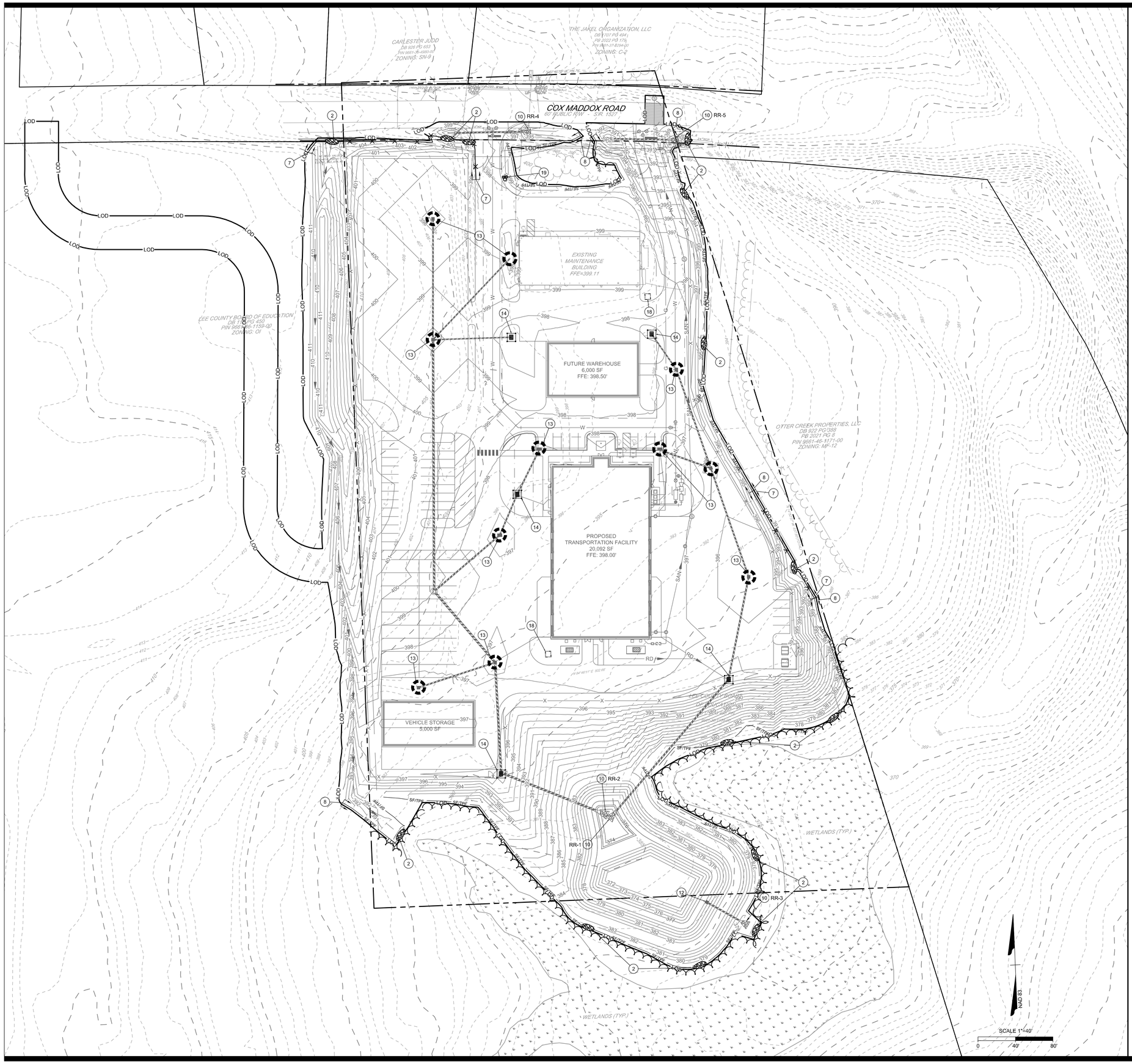
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phase	Construction Documents
issued for	Bid
project number	2514
drawn by: J GLAS	checked by: W ALTMAN

EROSION CONTROL
PHASE II

Original drawing is 42 x 30. Do not scale contents of this drawing.

sheet number

C-201



GENERAL NOTES

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	LIMITS OF CONSTRUCTION	LOD
	SKIMMER BASIN DRAINAGE AREA	
	EXISTING CONTOUR	53
	PROPOSED CONTOUR	53
	DUST CONTROL	DC

CONSTRUCTION SEQUENCE - PH III

1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE II AND ADJUST AS NEEDED.
2. AS CONSTRUCTION OF BUILDING CONTINUES, BEGIN FINE GRADING OF SITE.
3. MUCK OUT AND DEWATER SKIMMER BASIN IN SILT BAG ENSURING THAT THERE IS NO SEDIMENT LADEN RUNOFF ENTERING THE EXISTING STORM NETWORK WITHIN THE RIGHT OF WAY. THE SILT BAG SHALL BE MONITORED CONTINUOUSLY DURING OPERATION.
4. BEGIN INSTALLATION OF CURB AND GUTTER, AND PARKING LOTS.
5. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS ON ANY 3:1 SLOPES AND VEGETATE STEEP SLOPES AS THEY ARE ESTABLISHED ON PLANS.
6. REMOVE THE TEMPORARY STONE ACCESS ROAD ON THE ADJACENT SITE.
7. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
8. IF APPROVAL IS GRANTED BY NCDEQ AND TIMMONS GROUP, REMOVE TEMPORARY SILT FENCING AND OTHER TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES.

CRA Associates, Inc.
100 europa drive
suite 565
chapel hill, nc 27517
919.401.8586
cra-ae.com

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27868.331

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045682 WILLIAM P. ALTMAN 05-01-2027

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

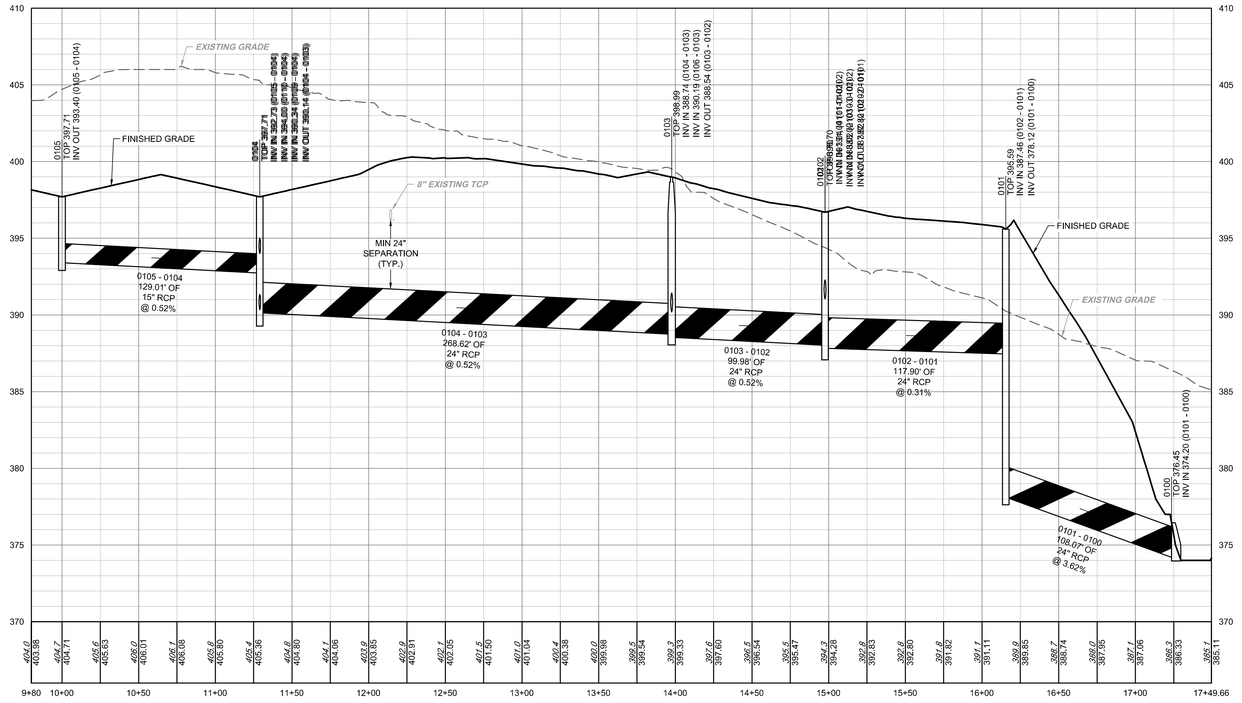
rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

date 2026.06.25
phase Construction Documents
issued for Bid
project number 2514
drawn by: J GLAS
checked by: W ALTMAN

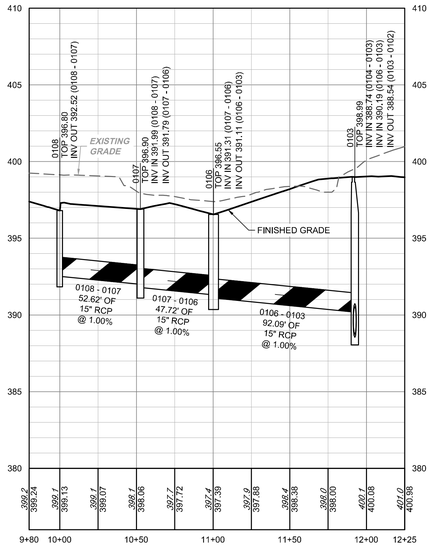
EROSION CONTROL PHASE III

Original drawing is 42 x 30. Do not scale contents of this drawing.

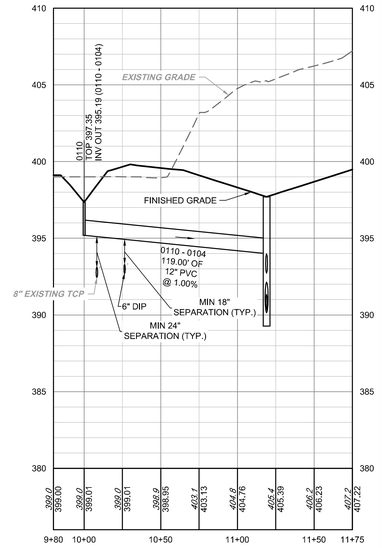
sheet number
C-202



STRM 0105 - 0100
STA. 9+80 - 17+50

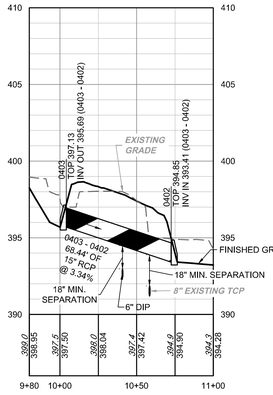


STRM 0108 - 0103
STA. 9+80 - 12+25

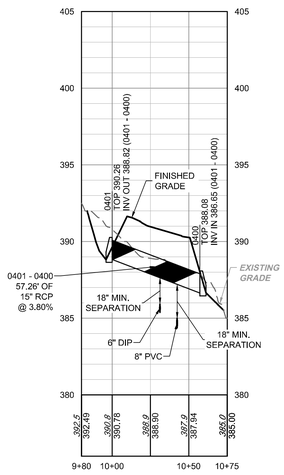


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STA. 9+80 - 11+75

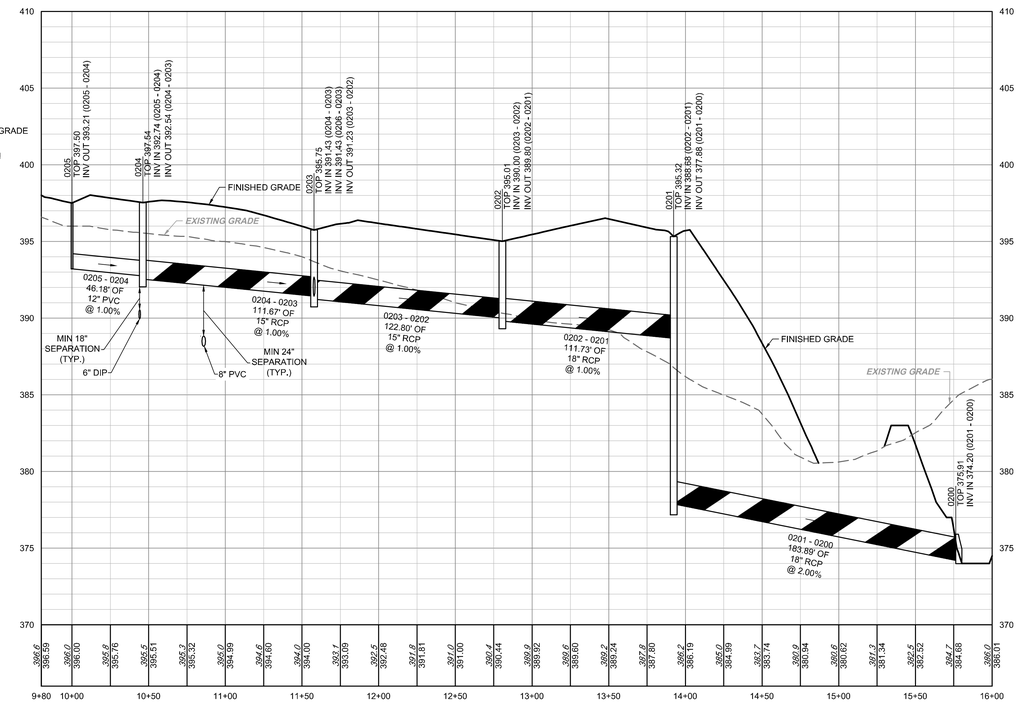
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STA. 9+80 - 11+25



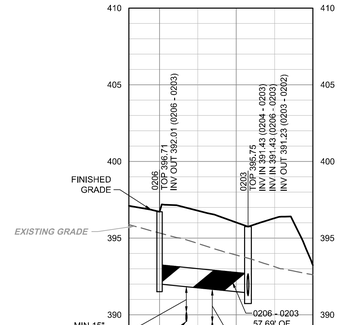
STRM 0403 - 0402
STA. 9+80 - 11+00



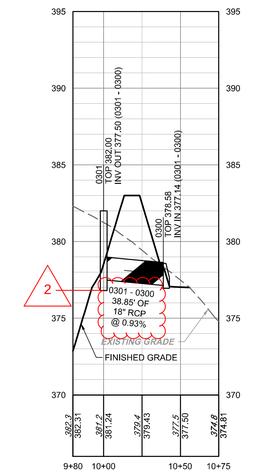
STRM 0401 - 0400
STA. 9+80 - 10+75



STRM 0205 - 0200
STA. 9+80 - 16+00



STRM 0206 - 0203
STA. 9+80 - 11+00



STRM 0301 - 0300
STA. 9+80 - 10+75

4
0
0 40
PROFILE SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045682 WILLIAM P. ALTMAN
PE5-01-2026

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

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project number 2514
drawn by: J GLAS checked by: W ALTMAN

STORM SEWER PROFILES

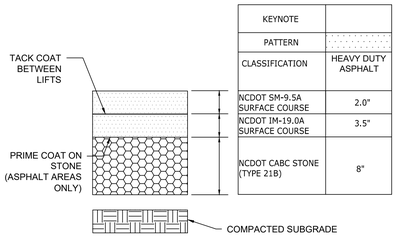
Original drawing is 42 x 30. Do not scale contents of this drawing.
sheet number

C-502

COMPACTION NOTES:

SUBGRADE AND ABC STONE
1. COMPACT TO MAXIMUM DRY DENSITY PER ASTM D698 STANDARD PROCTOR AND WITHIN 3% MAXIMUM MOISTURE CONTENT.
2. COMPACT SUBGRADE SOIL TO 95%
3. COMPACT CABC STONE TO 100%.
4. REFER TO SPECIFICATION SECTION 31 10 00 FOR ADDITIONAL INFORMATION.

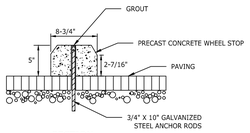
ASPHALT
1. COMPACT ASPHALT TO 92% MAXIMUM SPECIFIC GRAVITY.
2. REFER TO SPECIFICATION SECTION 32 12 16 FOR ADDITIONAL INFORMATION.



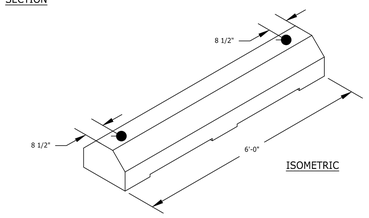
KEYNOTE	
PATTERN	
CLASSIFICATION	HEAVY DUTY ASPHALT
NCDOT SM-9.5A SURFACE COURSE	2.0"
NCDOT IM-19.0A SURFACE COURSE	3.5"
NCDOT CABC STONE (TYPE 21B)	8"

NOTES:
1. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.
3. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QC TESTING, PROOF ROLL, AND REQUIREMENTS NOTED IN SPECIFICATIONS.
4. OWNER WILL ACQUIRE 3RD PARTY QC TESTING SERVICES FOR SOILS AND PAVEMENTS.
5. REFER TO SPECIFICATION SECTION 32 12 16 & 31 10 00 FOR ADDITIONAL INFORMATION.

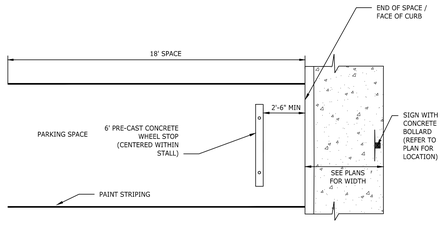
ASPHALT & GRAVEL PAVEMENTS N.T.S.



SECTION

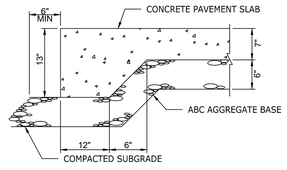


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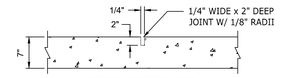


WHEEL STOP POSITION WITHIN PARKING STALL

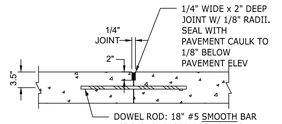
PRECAST CONCRETE WHEELSTOP N.T.S.



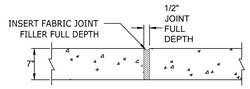
TYPICAL THICKENED EDGE



TYPICAL CONTROL JOINT



TYPICAL CONSTRUCTION JOINT



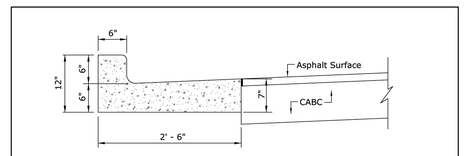
TYPICAL EXPANSION JOINT

CONCRETE PAVEMENT DIMENSIONS
CONC SLAB THICKNESS = 7" W/ AIR ENTRAINMENT
CABC THICKNESS = 6"
REINFORCEMENT = REFER TO GEOTECH REPORT
DOWEL RODS = 18" #5 SMOOTH BARS GREASED BOTH SIDES

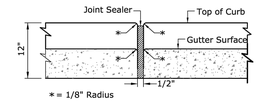
2

NOTES:
1. ALL CONCRETE PAVEMENT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI MIN. (ASTM C39).
2. CONTROL JOINTS SHALL BE SPACED AT 10' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN.
3. EXPANSION JOINTS SHALL BE SPACED AT 30' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN AND WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
4. INSTALL THICKENED EDGES ALONG ALL EDGES / SIDES OF CONCRETE PAVEMENT.
5. O.C.E.W. REFERS TO "ON CENTER EACH WAY".
6. CAULK ALL EXPANSION JOINTS WITH SELF LEVELING COMPOUND.

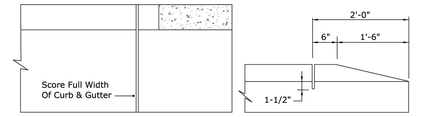
HEAVY DUTY CONCRETE N.T.S.



2' - 6" CURB & GUTTER



TRANSVERSE EXPANSION JOINT IN CURB & GUTTER



STANDARD METHOD OF ENDING CURB & GUTTER

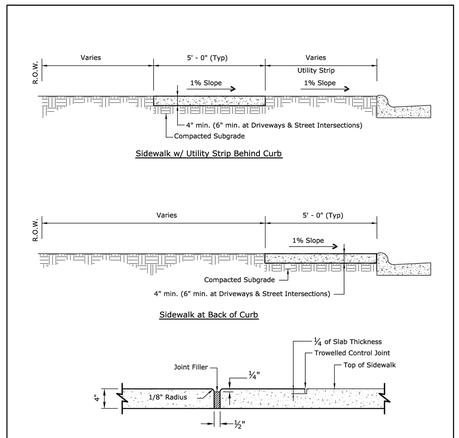
CITY OF SANFORD ENGINEERING DEPT.

Concrete Curb and Gutter

City of Sanford Engineering Dept - P.O. Box 3729 - Sanford, NC 27331

Dwg. No. SD-R-001	
Date:	07/10/14
Scale:	Not To Scale
Drawn By:	Staff

CONCRETE CURB & GUTTER N.T.S.



Sidewalk w/ Utility Strip Behind Curb

Sidewalk at Back of Curb

TRANSVERSE EXPANSION JOINT

Notes:

Concrete shall be 3000 psi at 28 days.
Expansion joints shall be 1/2" and have a maximum spacing of 50'.
Contraction joints equals 1/4 of slab thickness.
Control joint spacing shall be divided into 5'± sections using a grooving tool.

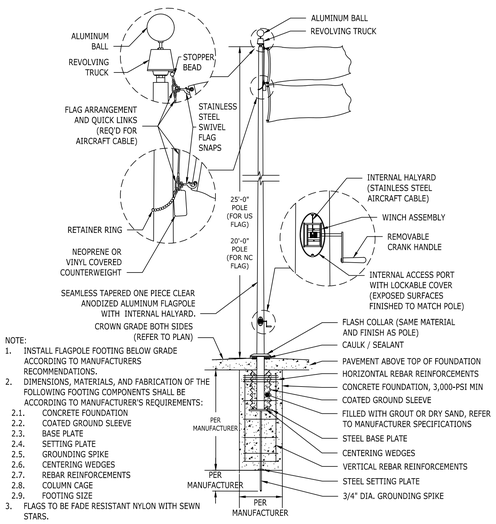
CITY OF SANFORD ENGINEERING DEPT.

Sidewalk

City of Sanford Engineering Dept - P.O. Box 3729 - Sanford, NC 27331

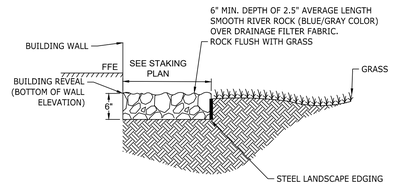
Dwg. No. SD-R-004	
Date:	07/10/14
Scale:	Not To Scale
Drawn By:	Staff

CONCRETE SIDEWALK N.T.S.



NOTE:
1. INSTALL FLAGPOLE FOOTING BELOW GRADE ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
2. DIMENSIONS, MATERIALS, AND FABRICATION OF THE FOLLOWING FOOTING COMPONENTS SHALL BE ACCORDING TO MANUFACTURER'S REQUIREMENTS:
   - 2.1. CONCRETE FOUNDATION
   - 2.2. COATED GROUND SLEEVE
   - 2.3. BASE PLATE
   - 2.4. SETTING PLATE
   - 2.5. GROUNDING SPIKE
   - 2.6. CENTERING WEDGES
   - 2.7. REBAR REINFORCEMENTS
   - 2.8. COLUMN CAGE
   - 2.9. FOOTING SIZE
3. FLAGS TO BE FADE RESISTANT NYLON WITH SEWN STARS.

FLAG POLE N.T.S.



RIVER ROCK N.T.S.

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100 europa drive
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NORTH CAROLINA PROFESSIONAL SEAL 045682 ENGINEER William P. Altman
PES-01-2026

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS INSPIRED.

rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

date 2026.06.25
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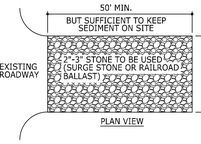
NOTES AND DETAILS

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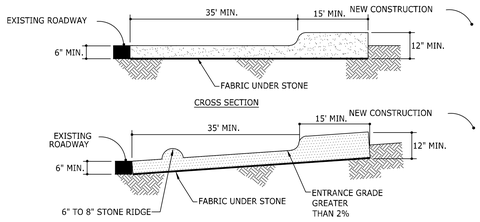
sheet number

C-600

GRAVEL CONSTRUCTION ENTRANCE — N.T.S.

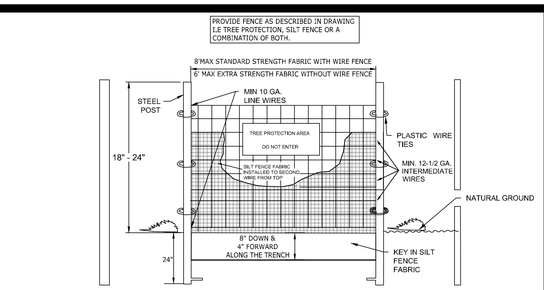


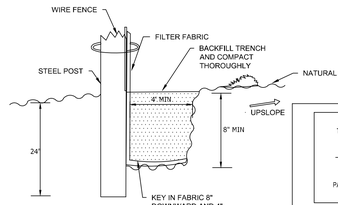
NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL 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.



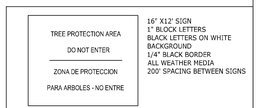
MAINTENANCE
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH TWO-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

TEMPORARY SILT/TREE PROTECTION FENCE — N.T.S.





SILT FENCE KEY-IN DETAIL



16" X12' SIGN
1" BLOCK LETTERS
BLACK LETTERS ON WHITE BACKGROUND
1/4" BLACK BORDER
ALL WEATHER MEDIA
200' SPACING BETWEEN SIGNS

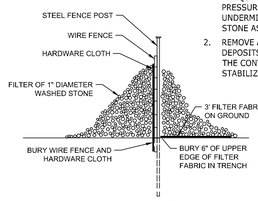
PLACE SIGN ON ALL TREE PROTECTION FENCING AND WHERE SILT FENCE REPLACES TREE PROTECTION FENCING.

TREE PROTECTION AREA SIGNAGE

INSTALLATION SPECIFICATIONS:
1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ON FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.
2. INSTALL POSTS 4 FEET APART IN CRITICAL AREAS AND 6 FEET APART ON STANDARD APPLICATIONS.
3. INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FABRIC.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL.
8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.
9. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
10. TREE PROTECTION SIGNS ARE TO BE PLACED EVERY 50-FT AND FENCE MUST REMAIN UNTIL CLOSEOUT OF PROJECT.

MAINTENANCE:
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

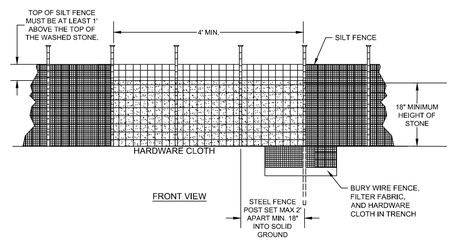
REINFORCED SILT FENCE OUTLET — N.T.S.



SECTION VIEW

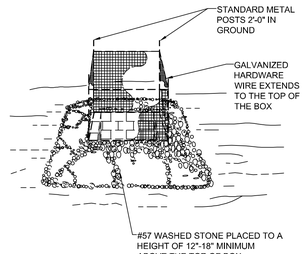
MAINTENANCE NOTES:
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

NOTES:
1. INSTALL SILT FENCE PER STD. SILT FENCE DETAIL.
2. LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.
3. PLACE RIP RAP WITH CARE. DO NOT TEAR SILT FENCE FABRIC.



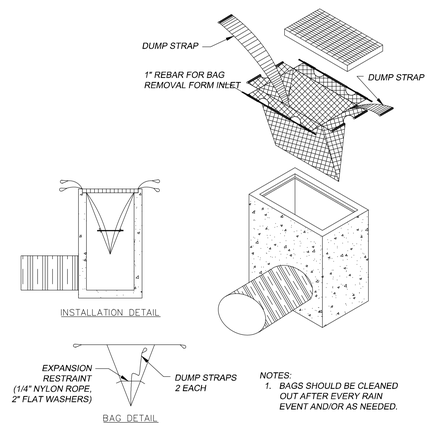
FRONT VIEW

INLET PROTECTION — N.T.S.



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

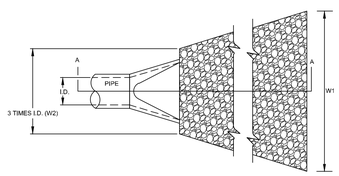
SILT BAG INLET PROTECTION — N.T.S.



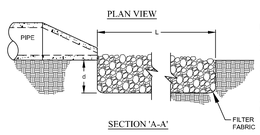
NOTES:
1. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

MAINTENANCE:
1. INSPECT ALL MEASURES AT LEAST WEEKLY AND AFTER EACH RAINFALL OF 1.0 INCH OR GREATER AND REPAIR IMMEDIATELY.
2. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO THE DESIGN DEPTH OF THE TRAP.
3. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.
4. CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.
5. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT, SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER.

RIP RAP OUTLET PROTECTION — N.T.S.



MAINTENANCE
RIP RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.

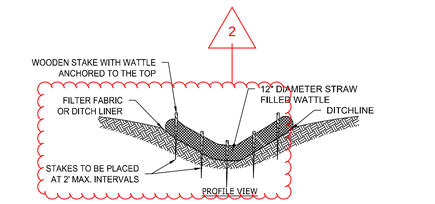


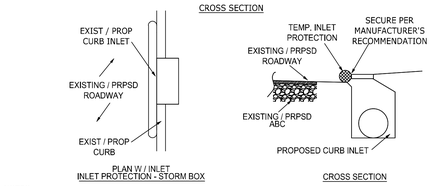
NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. MAINTAIN ENERGY DISSIPATERS INSTALLED DURING EARLY SITE WORK THROUGHOUT THE CONSTRUCTION AREA.

ENERGY DISSIPATOR SCHEDULE

NAME	PIPE SIZE	W1 (FT)	W2 (FT)	LENGTH (FT)	THICKNESS (IN)	D50 SIZE (IN)	STONE CLASS
RR-1	18	4.5	10.5	9	22	6	B
RR-2	24	6	18	16	24	13	1
RR-3	15	3.75	8.75	7.5	22	6	B
RR-4	15	3.75	6.25	5	12	3	A
RR-5	15	3.75	8.75	7.5	22	6	B

TEMPORARY WATTLE — N.T.S.





NOTES:
1. WATTLES SHALL BE FILLED WITH STRAW OR OTHER APPROVED MATERIAL.
2. SPACING FOR WATTLES SHALL BE AS SHOWN ON EROSION CONTROL PLAN.
3. STAKE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. THE SOCK SHALL BE PRODUCED FROM A 5 MIL THICK CONTINUOUS POLYPROPYLENE, WOVEN INTO A TUBULAR MESH NETTING MATERIAL, WITH OPENINGS IN THE KNITTED MESH OF 1/8"TO 3/8" OPENINGS.
5. HARDWOOD 2"x2" STAKES SHALL BE DRIVEN THROUGH CENTER OF COMPOST SOCK AT 4' O.C. MAXIMUM SPACING ANGLED UP SLOPE.

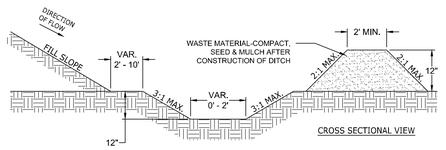
MAINTENANCE NOTES:
1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
3. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
4. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
5. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

DIVERSION DITCH — N.T.S.

MAINTENANCE

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

NOTES:
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR SCM.
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 TAC, AND/OR EROSION CONTROL NETTING.



DITCH	TOTAL FLOW (CFS)	SLOPE (%)	BOTTOM WIDTH (FT)	RIGHT SLOPE (H:V)	LEFT SLOPE (H:V)	FLOW DEPTH (FT)	TEMPORARY LINER	PERMANENT LINER
DD-1	0.24	7.17	0.00	3:1	3:1	0.30	Grass	North American Green, S75
DD-2	10.95	2.83	0.00	3:1	3:1	0.89	Grass	North American Green, S150
DD-3	2.06	7.63	0.00	3:1	3:1	0.40	Grass	North American Green, SC150
DD-4	3.61	4.27	0.00	3:1	3:1	0.54	Grass	North American Green, S75
TDD-1	20.02	2.03	1.50	3:1	3:1	0.96	Curled Mat	N/A

*SWALES HAVE BEEN DESIGNED USING RAINFALL INTENSITY FOR THE 10-YEAR STORM ACCORDING TO THE NCDENR EROSION CONTROL MANUAL.

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NORTH CAROLINA PROFESSIONAL SEAL 046682 ENGINEER William P. Altman
PE-01-2026

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

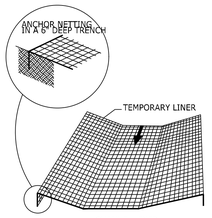
date 2026.06.25
phase Construction Documents
issued for Bid
project number 2514
drawn by: J GLAS
checked by: W ALTMAN

NOTES AND DETAILS

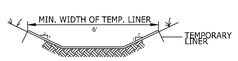
Original drawing is 42 x 30. Do not scale contents of this drawing.

sheet number
C-608

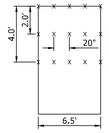
TEMPORARY CHANNEL LINING



CHANNEL LINER



GRASS-LINED CHANNEL
NTS



3.5 STAPLES/SY USING 6" - 11 GAUGE WIRE "U" STAPLES. USE 8" STAPLES FOR LOOSE SOILS. 9 GAUGE STAPLES OR HEAVIER IN HARD OR ROCKY SOILS.

EXCELSIOR MAT STAPLE PATTERN
NTS

CONSTRUCTION NOTES:

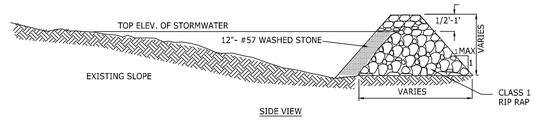
1. INSTALL EXCELSIOR CHANNEL LINING IN ALL SWALES OR AREAS OF CONCENTRATED STORMWATER FLOW.
2. SEE SPECIFICATIONS FOR TEMP. LINING REQUIREMENTS.
3. PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
4. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
6. PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
7. FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
8. MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
9. THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

MAINTENANCE NOTES:

1. GRASSED-LINED CHANNELS TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT, DURING THE ESTABLISHMENT AND AFTER THE ESTABLISHMENT PERIOD.
2. REPAIRS ARE TO BE MADE IMMEDIATELY.
3. REMOVE SEDIMENT ACCUMULATIONS TO MAINTAIN DESIGNED CARRYING CAPACITY.
4. GRASS TO BE HEALTHY AND IN VIGOROUS CONDITIONS AT ALL TIMES.

TEMPORARY CHANNEL LINING N.T.S.

CHECK DAM



SIDE VIEW

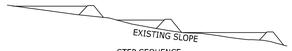
DESIGN OF SPILLWAYS

DRAINAGE AREA (ACRES)	MIN. WEIR LENGTH (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

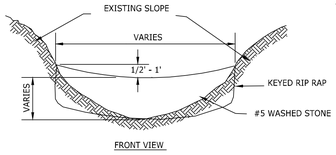
NOTES:

HEIGHT AND WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM FOR STABILIZATION.



STEP SEQUENCE



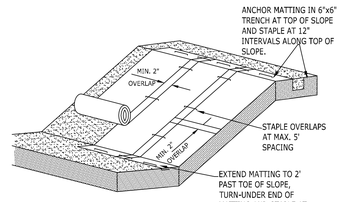
FRONT VIEW

MAINTENANCE NOTES:

1. INSPECT CHECK PROTECTION WEEKLY AND AFTER $\frac{1}{4}$" RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.
2. IMMEDIATELY CORRECT ANY DAMAGE CAUSED BY SUBMERGED AND DEPOSITION ABOVE THE CHECK DAM AND FROM HIGH FLOWS AROUND THE EDGES.
3. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAINTHROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

N.T.S.

ROLLED EROSION CONTROL PRODUCT (EXCELSIOR)



NOTES:

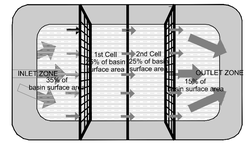
1. SLOPE SURFACE SHALL BE SMOOTH PRIOR TO PLACEMENT OF MATTING TO ENSURE PROPER SOIL CONTACT.
2. LIME, FERTILIZE, AND SEED PRIOR TO PLACING MATTING. PLANT SHRUBS, TREES, ETC. FOLLOWING PLACEMENT OF MATTING.
3. ON SLOPES FLATTER THAN 4:1, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS.
4. DO NOT STRETCH MATTING TIGHT. ALLOW ROLLS TO CONFORM TO ANY IRREGULARITIES.
5. INSTALL STAPLES IN PATTERNS AS RECOMMENDED BY MATTING MANUFACTURER.

MAINTENANCE NOTES:

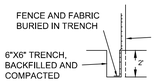
1. INSPECT MATTING AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL AND REPAIR IMMEDIATELY AS NEEDED.
2. ENSURE GOOD CONTACT WITH SOIL SURFACE IS MAINTAINED AND EROSION DOES NOT OCCUR BENEATH MATTING.
3. AREAS OF MATTING THAT ARE DAMAGED OR WHERE NOT IN CLOSE CONTACT WITH THE SOIL SHALL BE REPAIRED AND STAPLED.
4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREAS PROTECTED.
5. MONITOR AND REPAIR MATTING AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

N.T.S.

COIR MESH BAFFLES (NCDENR 6.65)



PLAN VIEW

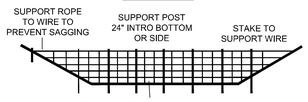


SECTION VIEW AT OPENING

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. BAFFLE SHALL BE 700 G/M2 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

CROSS SECTION



COIR MESH OR SIMILAR, STAPLED OR TRENCHED INTO BOTTOM OR SIDE

MAINTENANCE

INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

N.T.S.

DATE:

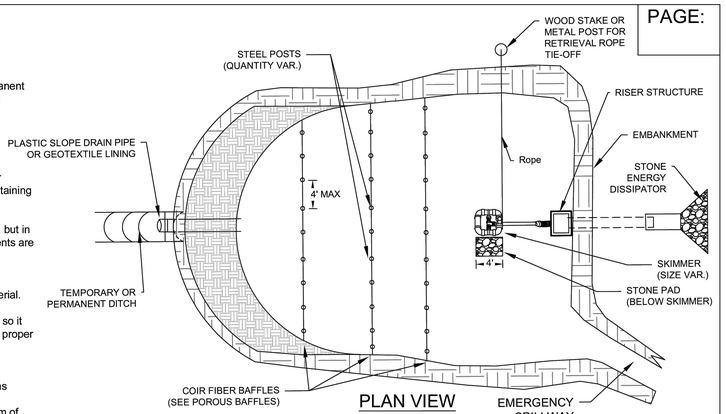
PAGE:

NOTES:

1. Install temporary sediment basins to the approved design. If the basin will eventually be converted to a permanent SCM device, the basin must function as a temporary sediment basin and meet the following parameters until completion of the project:
   - Maximum Drainage Area: 100 acres
   - Minimum Sediment Storage Volume: 1800 cubic feet per acre of disturbed area
   - Minimum Surface Area: 435 square feet per cfs of Q_{10} peak inflow
   - Minimum dewatering time: 48 hours
2. Clear, grub, and strip topsoil from areas under the embankment to remove trees, vegetation, roots, and other objectionable material. Delay clearing the pool area until the dam is complete. Stockpile all topsoil or soil containing organic matter for use on the outer shell of the embankment to facilitate vegetative establishment.
3. Place temporary sediment control measures below the basin and stockpile as needed.
4. Excavate a cut-off trench along the center line of the earth fill embankment. Cut trench to stable soil material, but in no case make it less than 2 feet deep with maximum side slopes no steeper than 1:1. Compaction requirements are the same as those for the embankment.
5. Extend the cut-off trench into both abutments to at least the elevation of the riser crest.
6. Keep the trench dry during backfilling and compaction operations.
7. Fill material should be clean mineral soil, free of roots, woody vegetation, rocks, and other objectionable material. Areas of approved fill should be shown on the plans.
8. Scarify areas on which fill is to be placed prior to placing. Ensure that fill material contains sufficient moisture so it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction.
9. Place fill material in 6 to 8 inch continuous layers over the entire length of fill area and compact.
10. Construct the embankment to an elevation 10% higher than the design height to allow for settling.
11. Securely attach the riser to the barrel or barrel stub to make a watertight structural connection. All connections should be made using approved watertight assemblies.
12. If no riser structure is to be used, couple the skimmer arm directly into the embankment 1 foot from the bottom of the basin.
13. The arm pipe connecting the skimmer to the riser shall have a minimum length of 6 feet.
14. Place barrel and riser on a firm, smooth foundation of impervious soil.
15. Do not use pervious material such as sand, gravel, or crushed stone as backfill around the pipe or anti-seep collars.
16. Place fill material around the pipe spillway in 4-inch layers, and compact it under and around the pipe to at least the same density as the adjacent embankment.
17. Place a minimum depth of 2 feet of compacted backfill over the pipe spillway before crossing it with any construction equipment.
18. Anchor riser in place by concrete or other satisfactory means to prevent floatation.
19. In no case should the pipe conduit be installed by cutting a trench through the dam after the embankment is complete.
20. Install the emergency spillway in undisturbed soil.
21. Discharge water into the basin in a manner to prevent erosion.
22. Construct basin so that the disturbed area is minimized, divert surface water from bare areas and complete the embankment before the area is cleared.
23. Stabilize the emergency spillway embankment and all other disturbed area above the crest of the principal spillway immediately after construction.
24. Seed and place matting for erosion control on interior and exterior side slopes.
25. Install Porous Baffles as specified on following sheets.

MAINTENANCE:

1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any repairs immediately.
2. Remove sediment and restore basin to its original dimensions when it accumulates to one-half the design depth.
3. Place removed sediment in an area with sediment control measures to ensure no loss of sediment off-site.
4. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement.
5. Remove all trash and other debris form the riser and pool area.



Acceptable Dimensions for Basin Embankment

Fill Height	Minimum Top Width
Less than 10.0 ft	8.0 ft
10.0 ft to 15.0 ft	10.0 ft

SEDIMENT BASIN

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

SEDIMENT BASIN N.T.S.

2

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PRS-01-2027

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

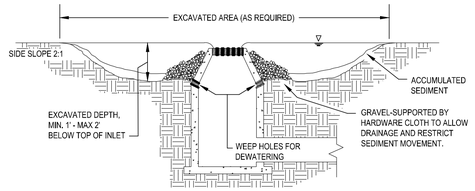
date 2026.06.25
phase Construction Documents
issued for Bid
project number 2514
drawn by: J GLAS checked by: W ALTMAN

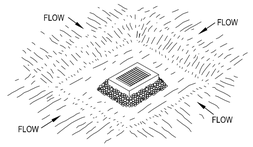
NOTES AND DETAILS

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C-609

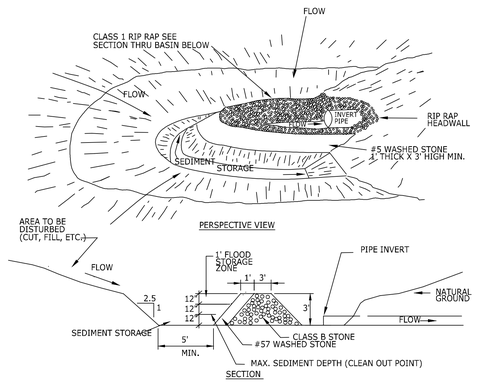




CONSTRUCTION SPECIFICATIONS:
1. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SPOIL.
2. GRADE THE APPROACH OF THE INLET UNIFORMLY.
3. PROTECT WEEP HOLES BY GRAVEL.
4. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, SEAL WEEP HOLES, FILL THE EXCAVATED BASIN WITH STABLE SOIL TO FINAL GRADING ELEVATIONS, COMPACT THE FILL PROPERLY AND STABILIZE.

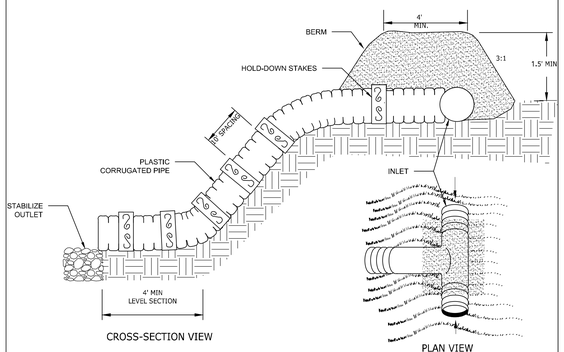
MAINTENANCE NOTES:
INSPECT, CLEAN, AND PROPERLY MAINTAIN THE EXCAVATED BASIN AFTER EVERY STORM UNTIL THE COMBINATION DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. TO PROVIDE SATISFACTORY BASIN EFFICIENCY, REMOVE SEDIMENT WHEN THE VOLUME OF THE BASIN HAS BEEN REDUCED BY ONE-HALF. SPREAD ALL EXCAVATED MATERIAL EVENLY OVER THE SURROUNDING LAND AREA OR STOCKPILING AND STABILIZE IT APPROPRIATELY.

TEMPORARY EXCAVATED DROP INLET PROTECTION N.T.S.



MAINTENANCE NOTES:
1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND REPAIR IMMEDIATELY.
2. REMOVE SEDIMENT AND RESTORE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP.
3. CHECK THE STRUCTURE FOR DAMAGE AND REPLACE ANY DISPLACED RIPRAP IMMEDIATELY.
4. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

TEMPORARY EXCAVATED PIPE INLET PROTECTION N.T.S.

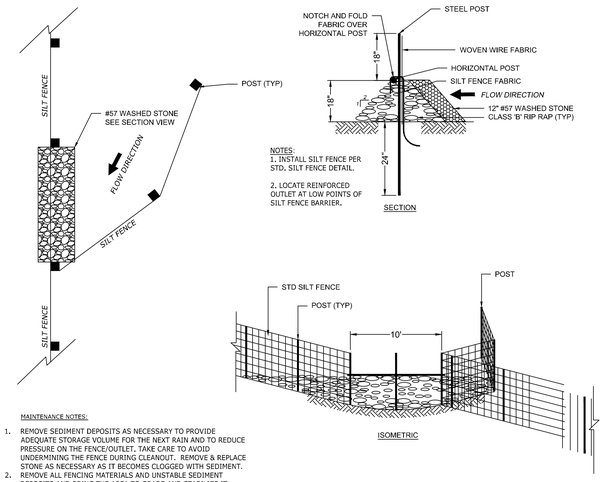


NOTES:
1. CONSTRUCT THE ENTRANCE TO THE SLOPE DRAIN OF A STANDARD FLARED-END SECTION OF PIPE WITH A MINIMUM 6-INCH METAL TOE PLATE (CROSS-SECTION VIEW). MAKE ALL FITTINGS WATERTIGHT. A STANDARD T-SECTION FITTING MAY ALSO BE USED AT THE INLET.
2. USE AN EARTHEN DIVERSION TO DIRECT SURFACE RUNOFF INTO THE TEMPORARY SLOPE DRAIN. MAKE THE HEIGHT OF THE BERM OVER THE DRAIN CONDUIT A MINIMUM OF 1.5 FT AND AT LEAST 6 INCHES HIGHER THAN THE ADJOINING BERM ON EITHER SIDE. THE LOWEST POINT OF THE DIVERSION BERM SHOULD BE A MINIMUM OF 1 FT
3. ABOVE THE TOP OF THE DRAIN SO THAT DESIGN FLOW CAN FREELY ENTER THE PIPE.
4. PROTECT THE OUTLET OF THE SLOPE DRAIN FROM EROSION WITH RIPRAP DISSIPATER.

CONSTRUCTION SPECIFICATION
1. PLACE SLOPE DRAINS ON UNDISTURBED SOIL OR WELL COMPACTED FILL AT LOCATIONS AND ELEVATIONS SHOWN ON PLAN.
2. SLIGHTLY SLOPE THE SECTION OF PIPE UNDER THE DIKE TOWARDS ITS OUTLET.
3. HAND TAMP THE SOIL UNDER AND AROUND THE ENTRANCE SECTION IN LIFTS NOT EXCEEDING 6 INCHES.
4. ENSURE THAT FILL OVER THE DRAIN AT THE TOP OF THE SLOPE HAD MINIMUM DIMENSIONS OF 1.5 FEET DEPTH, 4 FEET TOP WIDTH, AND 3:1 SIDE SLOPES.
5. ENSURE THAT ALL SLOPE DRAIN CONNECTIONS ARE WATERTIGHT.
6. ENSURE THAT ALL FILL MATERIAL IS WELL-COMPACTED. SECURELY FASTEN THE EXPOSED SECTION OF THE DRAIN WITH GROMMETS OR STAKES SPACES NO MORE THAN 10 FEET APART.
7. EXTEND THE DRAIN BEYOND THE TOE OF THE SLOPE, AND ADEQUATELY PROTECT THE OUTLET FROM EROSION.
8. MAKE THE SETTLED, COMPACTED DIKE RIDGE NO LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE AT EVERY POINT.
9. IMMEDIATELY STABILIZE ALL DISTURBED AREAS FOLLOWING CONSTRUCTION.

MAINTENANCE
1. INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.

TEMPORARY SLOPE DRAIN N.T.S.



MAINTENANCE NOTES:
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

TEMPORARY REINFORCED SILT FENCE J-HOOK INTALLATION N.T.S.

TEMPORARY SEED SCHEDULE (Jan 1 - May 1)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
ANNUAL RYE GRASS	50-LBS PER 1-ACRE	85%	1%

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,00LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

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

TEMPORARY SEED SCHEDULE (May 1 - Sept 30)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
GERMAN MILLET	30-LBS PER 1-ACRE	85%	1%

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,00LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

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

TEMPORARY SEED SCHEDULE (Oct 1 - Dec 30)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
ANNUAL RYE GRASS	50-LBS PER 1-ACRE	85%	1%

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,00LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REPAIR AND REFERTILIZE DAMAGES AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

PERMANENT SEED SCHEDULE (MAY 1-AUGUST 15)

GRASS SPECIES BLEND	PLANTING RATE	MIN. % PURE SEED	MAX. % WEED SEED
HULLED SUNSTAR OR RIVIERA BERMUDA	200-LBS PER 1-ACRE	98%	1%

NOTES:
1. PERMANENT SEEDING FOR THIS PROJECT SHALL OCCUR BETWEEN MAY 1-AUGUST 15, ADJUSTED AS NECESSARY FOR ADEQUATE GROUND TEMPERATURES. GROUND TEMPERATURES SHALL BE IN THE RANGE OF 60-80 DEGREES FOR GERMINATION.
2. REFER TO SPECIFICATION SECTION 329200

TEMPORARY SEEDING SPECIFICATIONS

COMPLETE GRADING BEFORE PREPARING SEEDBEDS, AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS, DIKES, WATERWAYS, AND BASINS, MINIMIZE STEEP SLOPES BECAUSE THEY MAKE SEEDBED PREPARATION DIFFICULT AND INCREASE THE EROSION HAZARD. IF SOILS BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW.

SEEDBED PREPARATIONS

GOOD SEEDBED PREPARATION IS ESSENTIAL TO SUCCESSFUL PLANT ESTABLISHMENT. A GOOD SEEDBED IS WELL-PULVERIZED, LOOSE, AND UNIFORM. WHERE HYDROSEEDING METHODS ARE USED, THE SURFACE MAY BE LEFT WITH A MORE IRREGULAR SURFACE OF LARGE CLODS AND STONES.

- **LIMING -** APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE PH (ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 TO 1 1/2 TONS/ACRE ON COARSE-TEXTURED SOILS AND 2-3 TONS/ACRE ON FINE-TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4-6 INCHES OF SOIL. SOILS WITH A PH OF 6 OR HIGHER NEED NOT BE LIMED.
- **FERTILIZER -** BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE, APPLY A 10-10-10 GRADE FERTILIZER AT 700-1,00 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
- **SURFACE ROUGHENING -** IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING (REFER TO THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, PRACTICE 6.03, SURFACE ROUGHENING).

PLANT SELECTION

- SELECT AN APPROPRIATE SPECIES OR SPECIES MIXTURE FROM TABLE 6.10A FOR SEEDING IN LATE WINTER AND EARLY SPRING, TABLE 6.10B FOR SUMMER, AND TABLE 6.10C FOR FALL.
- IN THE MOUNTAINS, DECEMBER AND JANUARY SEEDING HAVE POOR CHANCES OF SUCCESS. WHEN IT IS NECESSARY TO PLANT AT THESE TIMES, USE RECOMMENDATIONS FOR FALL AND A SECURELY TACKED MULCH.

SEEDING

- EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. USE SEEDING RATES GIVEN IN TABLES 6.10A-6.10C. BROADCAST SEEDING AND HYDROSEEDING ARE APPROPRIATE FOR STEEL SLOPES WHERE EQUIPMENT CANNOT BE DRIVEN. HAND BROADCASTING IS NOT RECOMMENDED BECAUSE OF THE DIFFICULTY IN ACHIEVING A UNIFORM DISTRIBUTION.
- SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1/2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH.

MULCHING

THE USE OF AN APPROPRIATE MULCH WILL HELP ENSURE ESTABLISHMENT UNDER NORMAL CONDITIONS, AND IS ESSENTIAL TO SEEDING SUCCESS UNDER HARSH SITE CONDITIONS (REFER TO THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, PRACTICE 6.14, MULCHING). HARSH SITE CONDITIONS INCLUDE:

- SEEDING IN FALL FOR WINTER COVER (WOOD FIBER MULCHES ARE NOT CONSIDERED ADEQUATE FOR THIS USE),
- SLOPES STEEPER THAN 3:1,
- EXCESSIVELY HOT OR DRY WEATHER,
- ADVERSE SOILS (SHALLOW, ROCKY, OR HIGH IN CLAY OR SAND), AND
- AREAS RECEIVING CONCENTRATED FLOW.

IF THE AREA TO BE MULCHED IS SUBJECT TO CONCENTRATED WATERFLOW, AND IN CHANNELS, ANCHOR MULCH WITH NETTING (REFER TO THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, PRACTICE 6.14, MULCHING).

TEMPORARY SEEDING MAINTENANCE

RESEED AND MULCH AREAS WHERE SEEDING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

TEMPORARY/PERMANENT SEEDING N.T.S.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045682 WILLIAM P. ALTMAN EXPIRES: 12-31-2026

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

date 2026.06.25
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drawn by: J GLAS checked by: W ALTMAN

NOTES AND DETAILS

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sheet number

C-610

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers. • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting (PRSM) • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not consitute permanet stabilization prior to the establishment of permanent vegetation.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the NC DWR 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.

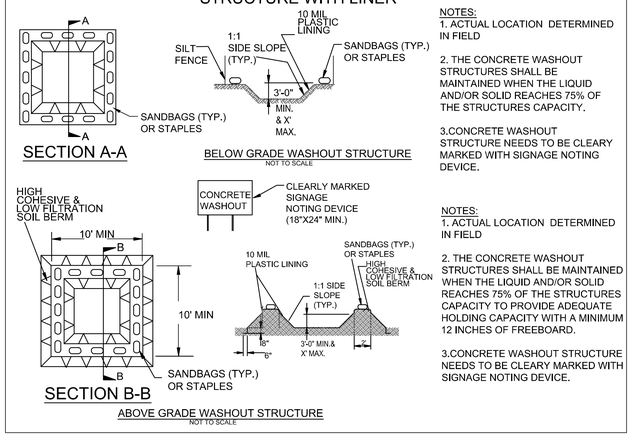
EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. It is recommended to locate stockpile areas at least 50 feet away from skimmer basins and anywhere stormwater flow is concentrated.
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.

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.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

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 at 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.

NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY

GROUND COVER & MATERIALS HANDLING

Effective: April 1, 2024

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045682 William P. Altman 05-01-2026

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PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

(a) This General Permit as well as the Certificate of Coverage, after it is received.

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

3. Documentation to be Retained for Three Years*

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

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

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

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,

(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,

(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,

(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NORTH CAROLINA DEQ
Department of Environmental Quality

INSPECTION, RECORD KEEPING AND REPORTING

Effective:
April 1, 2024

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NORTH CAROLINA PROFESSIONAL SEAL 045682 ENGINEER William P. Altman
25-01-2026

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sanford, NC 27332
CRA PROJECT ID: 2514

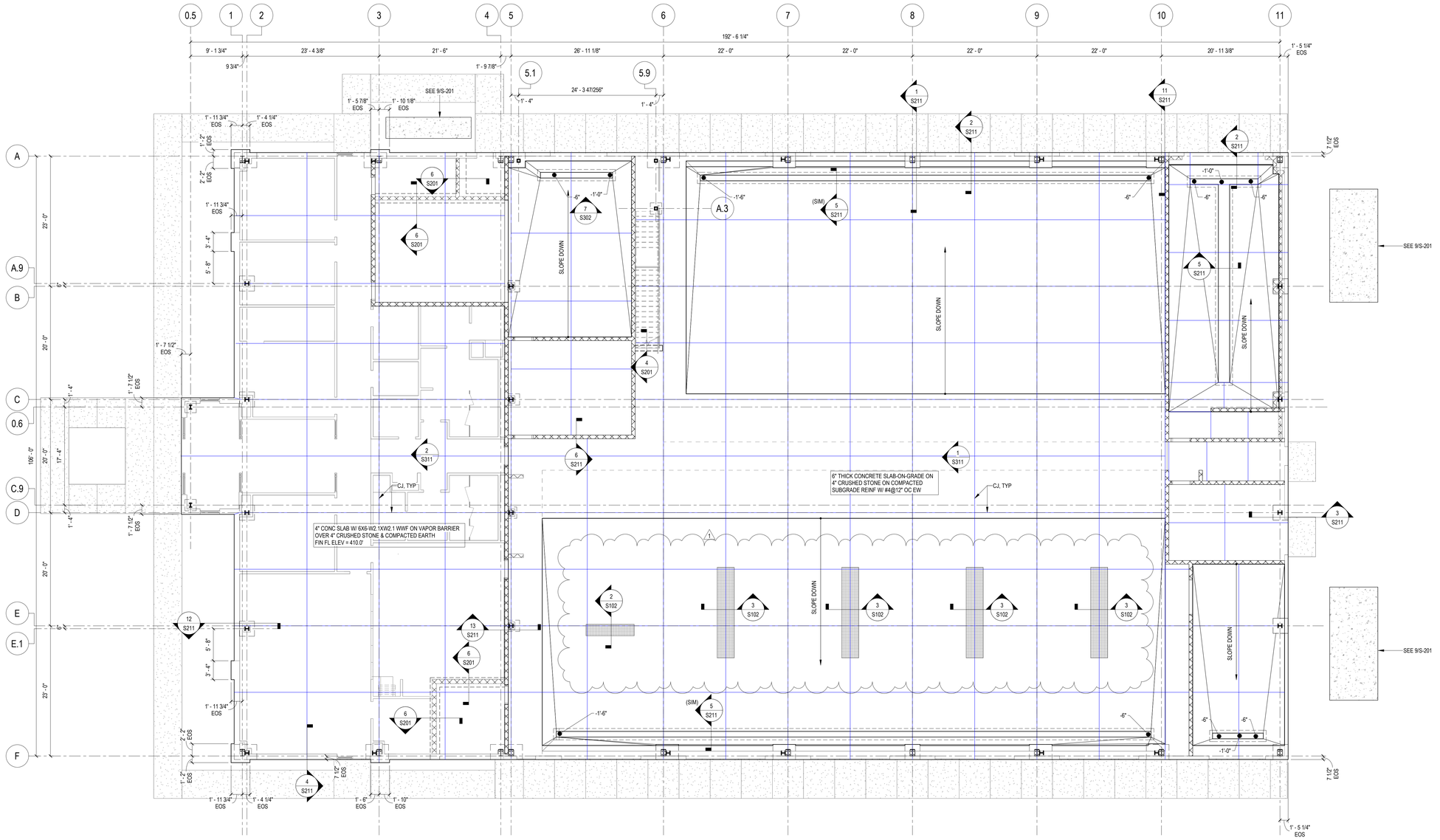
LEE COUNTY SCHOOLS
INSPIRED.

rev	date	description
02	2026.07.13	PLAN REVIEW RESPONSES

date 2026.06.25
phase Construction Documents
issued for Bid
project number 2514
drawn by: J GLAS checked by: W ALTMAN

NOTES AND DETAILS

Original drawing is 42 x 30. Do not scale contents of this drawing.
sheet number
C-612

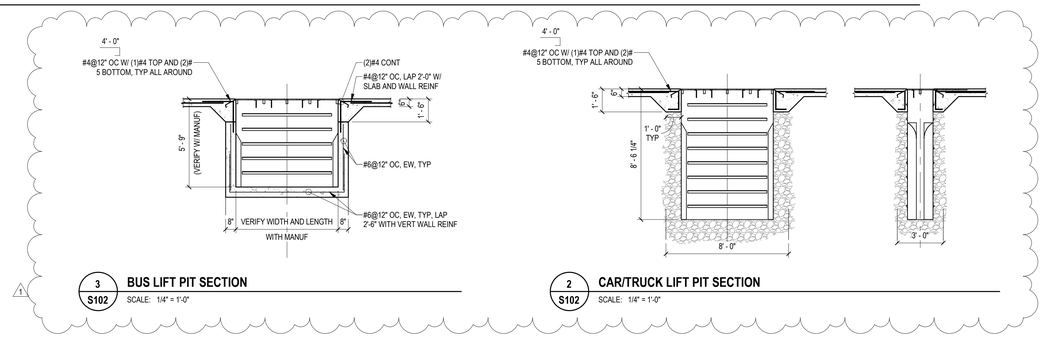


1 S102 SLAB-ON-GRADE PLAN

SCALE: 1/8" = 1'-0"

FOUNDATION AND SLAB PLAN NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS, AND STRUCTURAL LEGEND, SEE S0XX SHEET SERIES.
2. LEVEL 1 TOP OF SLAB REFERENCE ELEVATION = 0'-0", UNO. SEE CIVIL DRAWINGS FOR TRUE ELEVATION.
3. REFER TO PLAN FOR SLAB-ON-GRADE THICKNESS AND REINFORCING. PLACE ON VAPOR RETARDER OVER PREPARED SUBGRADE PER GEOTECH REPORT.
4. PROVIDE CONTROL JOINTS IN SLAB-ON-GRADE AT EACH COLUMN GRID AND AS SHOWN ON THE PLAN. SEE GENERAL NOTES AND TYPICAL SLAB-ON-GRADE DETAILS FOR ADDITIONAL REQUIREMENTS.
5. COORDINATE WITH ARCHITECTURAL AND/OR MEP DRAWINGS FOR LOCATIONS OF DRAINS AND SLOPES.
6. (-X'-X") INDICATES TOP OF FOUNDATION ELEVATION RELATIVE TO REFERENCE ELEVATION. UNLESS NOTED OTHERWISE, ALL FOUNDATION ELEMENTS SHALL HAVE TOP OF CONCRETE = (-2'-0").
7. UNLESS NOTED OTHERWISE, WHERE CONCRETE FOUNDATION ELEMENTS OVERLAP, REINFORCING SPECIFIED IN EACH ELEMENT SHALL BE CONTINUOUS THROUGH THE OVERLAPPING PORTION.
8. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
9. FOR TYPICAL FOUNDATION DETAILS, SEE S2XX SHEET SERIES.
10. "F#" INDICATES FOOTING MARK. SEE FOOTING SCHEDULE ON S101.
11. "WF#" INDICATES WALL FOOTING MARK. SEE WALL FOOTING SCHEDULE ON S101.
12. "P#" INDICATES PIER MARK. SEE PIER DETAILS ON S201.
13. "BP#" INDICATES BASE PLATE MARK NOT PROVIDED BY METAL BUILDING MFR. SEE BASE PLATE DETAILS ON S211.
14. "AR#" INDICATES ANCHOR ROD MARK. SEE ANCHOR ROD DETAILS ON S211.
15. #X@XX" OC INDICATES VERTICAL REINFORCING IN CMU WALL. REFER TO SECTIONS AND DETAILS WHERE NOT NOTED ON PLAN.
16. CMU PARTITION WALLS ARE SHOWN FOR COORDINATION ONLY. SEE ARCHITECTURAL DRAWINGS FOR WALL TYPE, THICKNESS, AND DIMENSIONS.
17. P = #K, V = #k — INDICATES SERVICE LEVEL REACTIONS ASSUMED FOR THE FOUNDATION DESIGN. "P = #K" IS THE TOTAL AXIAL FORCE IN KIPS, "V = #K" INDICATES TOTAL SHEAR FORCE IN KIPS. FOUNDATIONS HAVE BEEN DESIGNED FOR REACTIONS INDICATED ON THE DRAWINGS. METAL BUILDING MFR. TO SUBMIT BASE REACTIONS FOR FOUNDATION DESIGN VERIFICATION AND POSSIBLE FOUNDATION RE-DESIGN. CONTRACTOR SHALL PROVIDE UNIT COSTS FOR POSSIBLE FOUNDATION REVISION. PINNED COLUMN BASES HAVE BEEN ASSUMED AND SHALL BE VERIFIED.
18. ANCHOR ROD SIZE IS SHOWN FOR BIDDING PURPOSES. METAL BUILDING MFR. TO PROVIDE NUMBER AND DIAMETER OF ANCHOR RODS BASED ON METAL BUILDING MFR'S DESIGN REACTIONS. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ANCHOR RODS.
19. FOOTINGS SHALL BE CENTERED ON COLUMNS, UNO. PIERS SHALL BE CENTERED ON COLUMNS WHERE POSSIBLE OR LOCATED AS NOTED ON PLAN



3 S102 BUS LIFT PIT SECTION

SCALE: 1/4" = 1'-0"

2 S102 CAR/TRUCK LIFT PIT SECTION

SCALE: 1/4" = 1'-0"

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B & P Job Number: 26.08.004

seal/ signature

NORTH CAROLINA PROFESSIONAL SEAL 036253 ENGINEER JAMES THOMPSON
6.25.26

Transportation Facility
Lee County Schools
400 Cox Maddox Road
Sandford, NC 27332
CRA PROJECT ID: 2514

LEE COUNTY SCHOOLS

rev	date	description
1	7/13/26	Addendum 3

date	2026.06.25
phase	CONSTRUCTION DOCUMENTS
issued for	BID
project number	2514
drawn by: BRM	checked by: DT

SLAB PLAN

Original drawing is 42 x 30. Do not scale contents of this drawing.

sheet number

S102