



Purchasing Department
113 Mable T. Willis Blvd.
Walterboro, SC 29488
843.782.0504

BID: CPST-13
Tax Payer Service Center

Due: Thursday, February 18, 2021 at 11:00am

ADDENDUM 1
DATED: February 11, 2021

The following questions have been submitted for clarification:

1. Question: Will Aluminum conductors for electrical service be acceptable?
Answer: The design is based on Copper Conductors, and that's what should be included in the bid. If the owner chooses to switch to aluminum for cost savings, understanding that increased maintenance is required, then that should be analyzed, along with the savings offered to make this change. This could impact conductor, conduit, and lug sizing.
2. Question: Is the cable tray supplied by others or is there any specs on it?
Answer: Cable Tray shall be provided by the contractor as shown on the plans and per the attached specification.
3. Question: Will the owner supply an automatic transfer switch with generator?
Answer: No. The contractor is responsible for the Transfer Switch gear as noted in the Electrical plans.
4. Question: Will the owner provide fuel for generator?
Answer: N/A. Natural gas fueled generator. See Civil Drawings.
5. Question: The Generator is by Owner but want to confirm that we will not be expected to fill the Generator with Fuel. **Answer:** N/A. Natural gas fueled generator. See Civil Drawings.
6. Question: Can you provide a detail for 13/C503 SCDOT RoW pavement?
Answer: The detail for the driveway should be referencing pavement detail 10 on sheet C503. A revised site plan referencing correct bubble to be provided.
7. Question: are there any details on the Owner Provided Generator? Keynote 1 on A-101 State – "PROVIDE C CONCRETE PAD AND OTHER INFRASTRUCTURE AS INDICATED IN DETAILS FOR OWNER

PROVIDED GENERATOR. PLACE IN THIS APPROXIMATE LOCATION, COORDINATE PAD SIZE WITH OWNER PROVIDED EQUIPMENT. MODIFY GENERATOR PAD SO THAT PAD EXTENDS 1' 6" PAST EXTENTS OF OWNER PROVIDED GENERATOR ENCLOSURE IN ALL DIRECTIONS."

Answer: Pad shall be 12" thick with #5's in bottom at 8" o/c ea. way: extend pad 1'-6" past extents of generator enclosure footprint.

8. Question: Are there any details on the generator pad thickness and reinforcing?

Answer: Pad shall be 12" thick with #5's in bottom at 8" o/c ea. way: extend pad 1'-6" past extents of generator enclosure footprint.

9. Question: Is the Testing and Special Inspections by the Owner?

Answer: Yes. The Contractor is required to work with the Colleton County Contracted Special Testing Firm. All Testing will be expected to be performed within the limits of a normal work day (M-F 7am/4pm,). Any test required after normal working hours that are subject to additional cost are the responsibility of the contractor. Should an initial test fail and need a retest, the trip fees and inspection charges for additional testing are the responsibility of the Contractor.

10. Question: Will the building need to be sprinkled? Plans and specs do not specify?

Answer: No the building does not require sprinklers.

11. Question: A110 References Sheet A710 for fence details, however, the sheet ins not included in the bid documents. **Answer:** This missing A710 drawing has been included with this response.

12. Question: Need information on the aluminum fence and gate at the Mechanical yard behind the building?

Answer: Refer to drawing A710 which has been included with this response.

13. Question: Please confirm that the drive thru equipment is by the contractor. **Answer:** Yes.

14. Question: Is the refrigerator by owner? **Answer: Yes. Provided by owner contractor installed.**

15. Question: Page S101 of the plans. Note 3 describes the Simpson hold downs to be used as shown on the plan. Note 7 describes the bent plate bracket shown on small detail 4, same page. Where is the bent plate shown in section 3 used? **Answer:** Provide note 3 at specific locations indicated on plan. Provide note 7 at "half walls" per 4/S101 on plan. Bent plates shown in section 3/S101 are located under the storefront windows (windows A1, A2, A3, & A4 on A100).

16. Question: Page C201, Arborist and Grand Tree note below the building footprint outline: Does this tree work need to be completed only if there is work in the root zone of the individual tree?

Answer: With the curb work along Benson it appears all 4 grand trees noted will have work occurring in root zone. Those trees should follow arborist and grand tree note.

17. Question: Drawing A200 Keynote 7.40 and 7.41 list the Fypon Bracket number but only includes the height and projection. Please confirm the width is 3-1/2". **Answer:** Correct. The width is 3-1/2".

18. Question: Drawing A140 Material and Finish Legend indicates TBD for most of the items. Please provide the following additional information to allow for subcontractors to know what to price

Answer: Refer to question/ answer #35 below for information.

19. Question: LVT – specification section 096500 Resilient Flooring does provide a mfr. Is the difference between LVT 1 & 2 just different colors or different products? **Answer:** The two LVT selections are different colors within the same manufacturer’s product line. All other attributes of the material are the same. Refer to question/ answer #35 below for information.
20. Question: Solid Surface lists Wilsonart - Specification 123600 states “Color and Pattern: As indicated on drawings”. The color and pattern vary greatly. The suppliers need to know which pricing group the color and pattern will be selected from. **Answer:** Solid surface specifications are to be as follows. For each selection an approved equal substitution can be presented.
SS-1: Wilsonart #9230SS Powder White, 1/2" Thick
SS-2: Wilsonart #9135MG Cashmere Mirage, 1/2" Thick
SS-3: Wilsonart #9229SS Grey Moonstone, 1/2" Thick
21. Question: Ceramic Tile lists size only. The specification 093000 states “Floor tile, tile base, wall tile and grout color as scheduled on the drawings.” Please provide this information so that subcontractors can properly price. **Answer:** Refer to question/ answer #35 below for information.
22. Question: Drawings A140 Finish Schedule only lists LVT and doesn’t indicate LVT 1 or 2. The Finish Floor Pattern does indicate LVT 1 & 2. Please advise if two different colors will be used.
Answer: The two LVT types are two different colors within the same manufacturer’s product line. Refer to question/ answer #35 below for information.
23. Question: Drawings A400 and A401 indicate Ceramic Wall Tile (CWT-2) Full Height. The Material and Finish Legend doesn’t indicate CWT-2 at all. The Finish Schedule does indicate CT-1 on the walls and CT-2 on the floors. Please advise what product is to be used on the walls. **Answer:** The walls should have CT-1 as wall finish from floor to ceiling. Refer to question/ answer #35 below for information.
24. Question: Drawing C201 General Note states “All areas on site that are within limits of land disturbance shall be cleared of underbrush and debris.” We went to the site on Friday and found quite a bit of debris (concrete and steel) piled at the back of the site that is not indicated on the topographic survey or the demolition plans. Please see attached pictures. Is it the intent of the County for this debris to be removed?
Answer: Yes. The entire site as noted by the silt fencing limits shall be cleared of debris and small brush. Site to be graded so as not to leave any mounds or holes from where the debris or underbrush has been removed unless otherwise noted.
25. Question: Drawing C201 does indicate an Old Chimney Remains. But does not indicate if it is to be removed. See attached photo. Is the chimney to be removed also?
Answer: Yes. See answer to question-Drawing C201 above.
26. Question: What is the anticipated start date for this project? **Answer:** Thirty to ninety days after acceptance of bids.
27. Question: Will the plant quantities be issued? They’re not showing on the legend.
Answer: Plant quantities are listed on landscape planting plan sheet L101. The plan lists number and type with each leader.
28. Question: is this is a Davis bacon wage job? **Answer:** Yes

29. Question: Just wanted to confirm that the entire bid including a copy of our bid bond can be email as requested and the original bid bond and package can be delivered at a later date after bid opening.
Answer: Per ARTICLE 14 - SUBMITTAL OF BID
14.01 A Bidder shall submit one (1) original copy of the "Bid Forms". The Original Bid Forms shall contain the Bid Security.
30. Question: On Drawing A500 Wall Types A1, A2 and A3 all show 2x4 studs. The wall sections on A311 show 2x6 studs. Please clarify. **Answer:** Load bearing/shear walls shall be 2x6's @16" O/C. All exterior walls are load bearing and should be 2x6's @16" O/C. Interior walls bearing on TS20 footings are 2x6's. See details 4/S201, 6/S201, & 7/S201 to locate interior load bearing walls
31. Question: Please specify if the Owner or Contractor are responsible for Builders Risk Insurance, if applicable.
Answer: See 22.03 page 16.
32. Question: Contractor is responsible for permit fees. Has the Owner paid, or will they be paying any Impact Fees, Tapping Fees, Meter Fees, etc.? **Answer:** See "Basis of Bid" page 65
33. Question: Please confirm this IS NOT a Prevailing Rate project. **Answer:** This is Not a prevailing rate project.
34. Question: Please confirm that Allowances are to be carried in the proposal as cost only. All applicable Contractor OH&P will be added as change orders are generated from the Allowances. **Answer:** Correct
35. Question: Sheet A140 – Finish Floor Plan does not list a manufacturer, style or color for CT-1, CT-2, LVT-1 and LVT-2. Please provide a spec or basis of design so all contractors can propose the same product.
Answer: Please find the following specifications for materials noted as "TBD" on the finish schedule:
CT-1: Crossville #AV244 "Mist Honed", 12"x 24", 10.5mm Thick
CT-2:1 Crossville #AV246 "Ash UPS", 12"x 24", 10.5mm Thick
LVT-1: Flexco #642 "Timberwolf", 6"x 48" planks, 18" Thick, install over Flexco #CSU-400 underlayment
LVT-2: Flexco #643 "Castle Gray", 6"x 48" planks, 18" Thick, install over Flexco #CSU-400 underlayment
Note: All LVT is to have a 20-year limited commercial warranty.
36. Question: The thickness or R-Value of the rigid insulation for the roof system is not specified. Please specify.
Answer: All roof insulation is to be R38.
37. Question: Is there a Certified Arborist that is familiar with the project and has been working with you? If so, could you provide the contact information for them?
Answer: Colleton County does not have a specified arborist.
38. Question: Upon visiting the site, we noticed much more concrete and debris than is show on the drawings. It looks as if the site has been used as a dumping ground, as there is concrete protruding from the ground and debris that will need to be brought to a landfill. How would you like to handle this situation? We suggest supplying you with a rate to dispose of additional concrete we find and a separate rate for any debris that must be taken to a Landfill. **Answer:** The Contractor is not required to excavate. All debris that can be seen with the removal of leaves (easily seen) is the responsibility of the contractor. Should anything else be noted while performing this work, Colleton County will work with the contractor on the removal of those items. No special pricing is allowed. Proper disposal of debris is the responsibility of the contractor. Tipping fees at the Colleton County Landfill will not be waived.

39. Question: Drawing G110 states that a Fire Alarm System is not required. Drawing E004 shows a Fire Alarm System. Please clarify. **Answer:** It is to be provided as indicated on the E104 drawing, irrelevant of minimum code requirements.
40. Question: The project utility page appears to be cut off. It does not show how the water line ties into existing and will need to know what size main line is. Will a new page be issued?
Answer: Revised C401 attached showing connection to main. Per note on utility plan the main is a 6 inch.
41. Question: There is not any specification for the floor/wall tile- it directs you to the plans which say tbd.
Answer: Refer to question/ answer #35 above for information.
42. Question: Confirmation of use of floor tile membrane (type). **Answer:** Refer to question/ answer #35 above for information.
43. Question: Need further clarification on the vinyl plank- Mohawk Hot/Heavy is a line with a few products at varying price points. **Answer:** Refer to question/ answer #35 above for information.
44. Question: The drawings call out 2-lines of cellular call out for the Fire Alarm panel, this cannot be accomplished with one cellular call out module and would require two modules. One line of cellular call out is allowed per NFPA 72 2013, is this acceptable.
Answer: Per the NFPA 72 code, one cellular communicator is allowed as long as it meets the performance criteria of NFPA 72 section 26.6.3.1 and is approved by the AHJ.
45. Question: Key Note 32.30 Refers to a detail on Sheet A710, we do not have a Sheet A710 in our set of documents, can you please forward this sheet or clarify were the fence gate detail can be found.
Answer: Refer to drawing A710 which has been included with this response.
46. Question: Mulch – The tree planting detail calls for 4" Pine Straw. The note on the bottom of the plant schedule calls for 3" hardwood mulch, dark brown. Please clarify.
Answer: Should be mulch and 3" of shredded dark brown mulch.
47. Question: The plant schedule on sheet L102 calls for QV-Live Oak, DR-White Drift Rose, and AZ2-Purple Formosa. There are none of these plants shown on Sheet L101. Please verify there will not be any of these plants required. **Answer:** Plant schedule will need to be updated on L102. L101 is correct. An amended L102 can be sent to remove the plants mentioned above.
48. Question: In the North East corner of the building the plant label shows 3-NRS. Only 1 NRS is drawn. Is the correct quantity for that area one or three? **Answer:** Only 1 as drawn. Label can be updated.
49. STOREFRONT SYSTEMS
Question:
1. Exterior: 2" x 6" or 2 x 4 ½"
 - a. The exterior details on sheet "A200" show approx. 2 1/2" x 6" system
 - b. The wall section appear to show 2" x 4 ½" system
 - c. The specifications don't list a size.
 2. Interior: 2" x 6" or 1 ¾" x 4 ½"
 - a. The interior details shoe 3 1/4" x 8"

- b. To use the 2" x 6" on the interior would require a reducer snap in to accept ¼" thick glass. Also a continuous flat filler will be required on the frames due to the width of the interior wall or not as wide as the S.F. frames.
- c. 1 ¾" x 4 ½" will accept ¼" glass and is not as wide as the interior walls.
- d. The specifications don't list a size.

Answer: Exterior is to be 2"x 4-1/2" storefront with factory finish. Interior is to be hollow metal frame and is to match the depth and thickness of the hollow metal door frames and is to be painted.

50. GLASS TYPE:

Question: Wind speed on structural sheet "S100" sets the wind speed at 135 MPH (not impact. Spec 08 80 00 Glazing list glass as 1 5/16" Insulated Glass Units w/ the 9/16" laminated inboard lite. This is either the wrong spec or they want to use for security. I can provide a 1 1/16" impact unit that will glaze in a non-impact frame for security. I need clarification on the glass type.

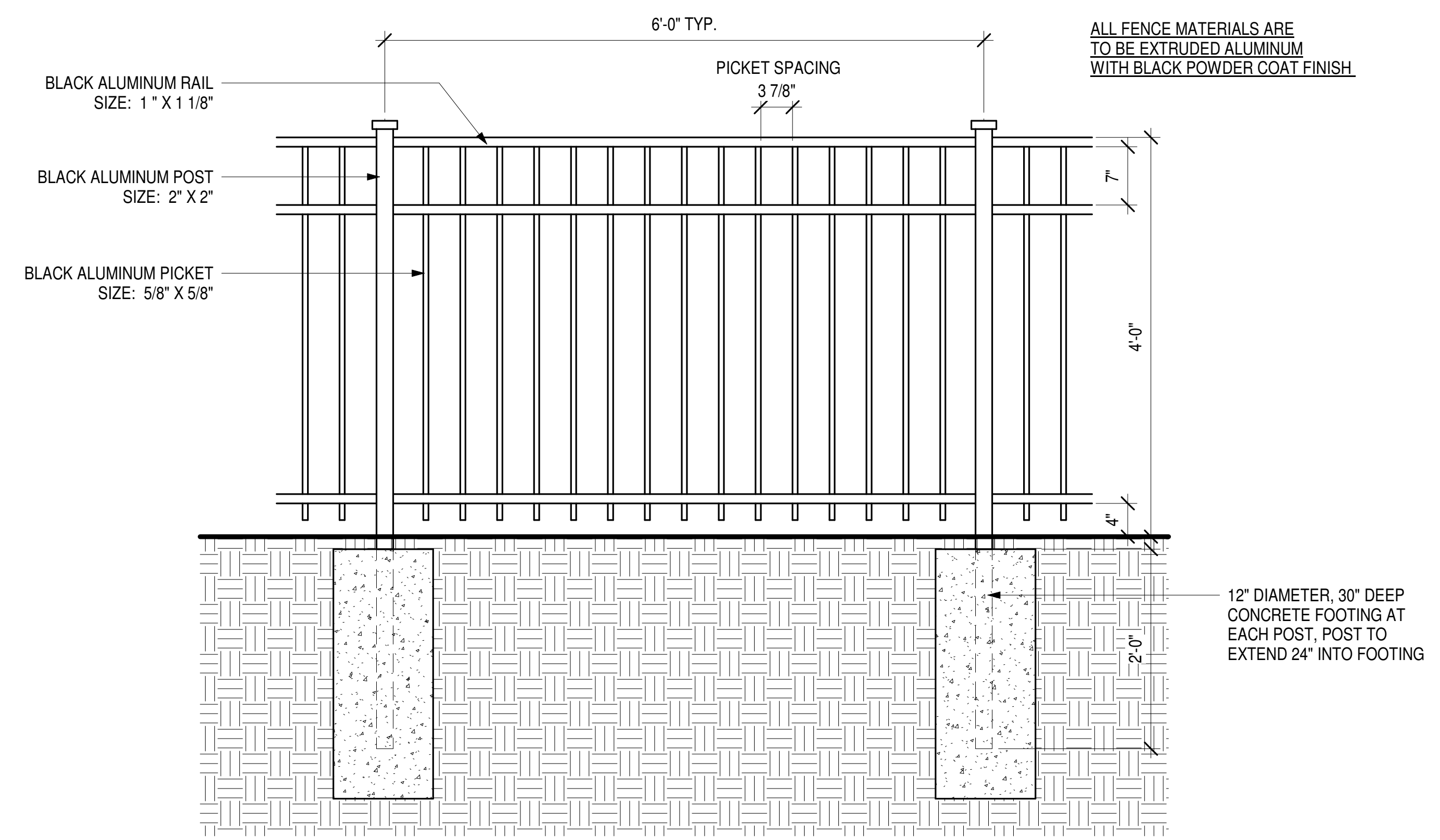
Answer: The storefront systems do not need to meet the Code requirements for an impact rated system but they do need to meet the required design pressure rating as called out in the drawings and specifications. But the glazing is to be provided as described in specification 08 80 00.

51. Question: Are there any local Bidder privileges? **Answer:** Yes. See Colleton Code of Ordinances; Section 3.08.185 Local Vendor Preference

https://library.municode.com/sc/colleton_county/codes/code_of_ordinances?nodeId=TIT3REFI_CH3.08PU

52. Question: After reviewing the areas where steel border is to be installed, the total area for the lawn and mechanical area is 550 lf. There is an additional area at the back of the property between the lawn and the mulch disturbed area which would be an additional 240 lf of steel border, please verify that this area should be included and the steel border to be used is 1/8" rather than the 3/16"x 4"

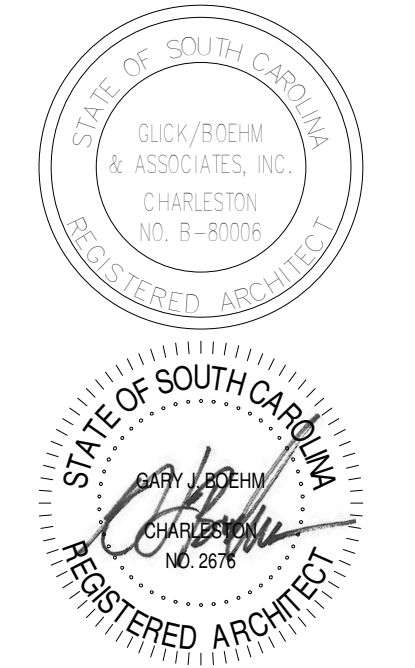
Answer: Yes. All areas between lawn and planting areas should be included for steel border area. 1/8" border.



ALL FENCE MATERIALS ARE TO BE EXTRUDED ALUMINUM WITH BLACK POWDER COAT FINISH

1 MECHANICAL ENCLOSURE FENCE DETAIL
SCALE: 1" = 1'-0"

REV.	DATE	DESCRIPTION

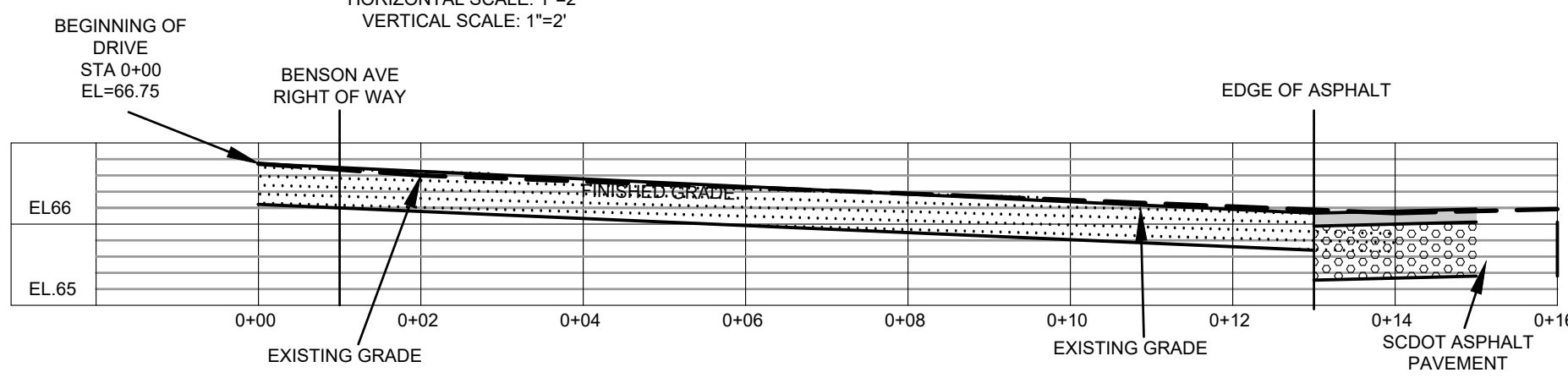


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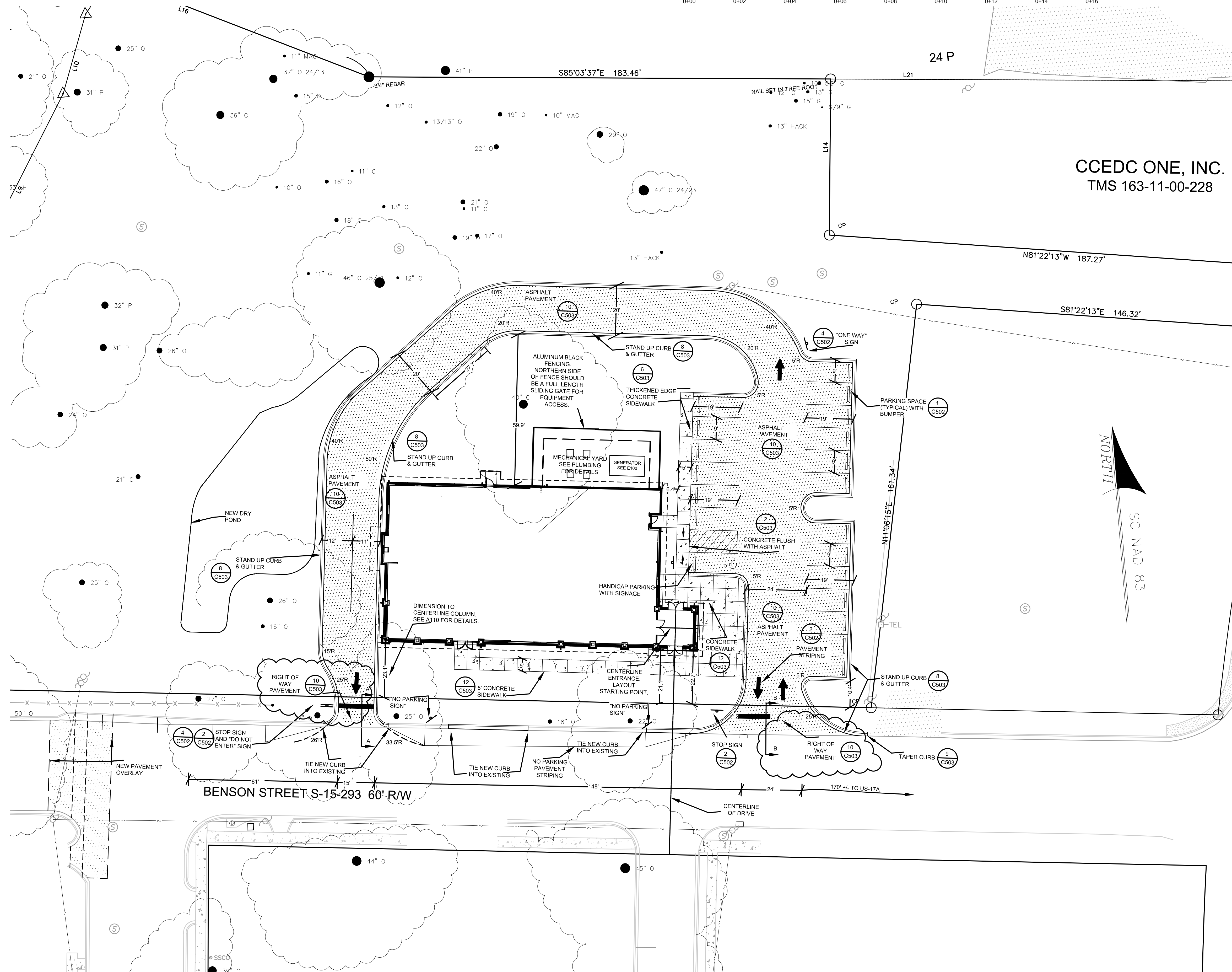
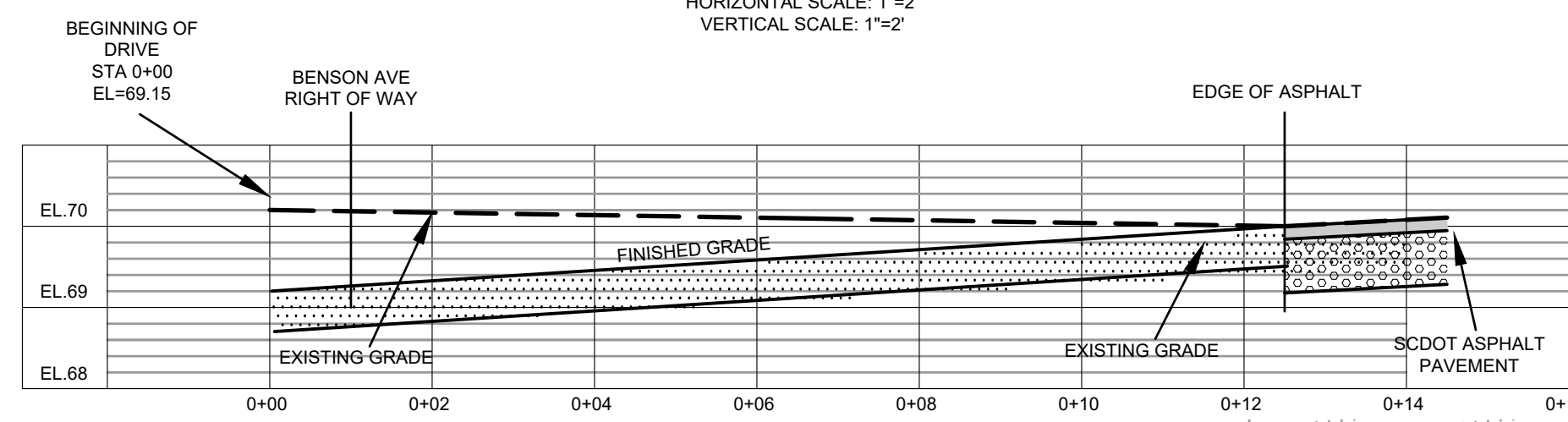
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 JOB NUMBER: 1904
 PROJECT MGR.: SM
 DRAWN BY: Author
 CHECKED BY: Checker
 APPROVED BY: Approver
 DATE ISSUED FOR: 11/23/2020
 CDs

FENCE DETAILS

SCDOT DRIVEWAY CROSS SECTION A-A



SCDOT DRIVEWAY CROSS SECTION B-B



CCEDC ONE, INC.
TMS 163-11-00-228

SITE DATA:

- 1) THE PROPERTY ADDRESS IS 118 BENSON STREET.
2) TMS No. : 163-11-00-230
3) TOTAL AREA OF TRACT = 4.535 ACRES
4) ZONED COMMERCIAL - NO SETBACKS.
5) BLDG. HEIGHT: 19' 6" - SEE ARCHITECTURAL
6) PROPOSED BUILDING FOOTPRINTS = 14,300 S.F. = 0.3AC.
7) ACCORDING TO FEMA FLOOD INSURANCE RATE MAP45029C03186 DATED DECEMBER 21, 2017 THIS PROPERTY APPEARS TO LIE IN ZONE AE AND X.
8) CADD FILES WILL BE PROVIDED TO SUCCESSFUL BIDDER FOR THEIR USE IN THE LAYOUT OF THE PROJECT.

SPECIAL RW NOTES FOR SCDOT PROJECTS:

- 1) CONTRACTOR TO REFER TO THE MOST CURRENT EDITION OF THE SCDOT STANDARD DRAWINGS TO MAKE SURE THAT THE DETAILS SHOWN HEREON ARE THE MOST CURRENT SCDOT DETAILS.
2) ANY FIELD CHANGES WITHIN SCDOT R/W OR CHANGES THAT WOULD IMPACT SCDOT R/W WILL REQUIRE WRITTEN SCDOT APPROVAL PRIOR TO CHANGES BEING IMPLEMENTED IN THE FIELD. (E.G. DRAINAGE, GRADING, ACCESS DESIGN ETC.)
3) SCDOT WILL REQUIRE THAT YOU PROVIDE A TRAFFIC CONTROL PLAN (PHASED AS NECESSARY) FOR REVIEW AND APPROVAL.
4) UTILITY COMPANIES MUST SUBMIT UTILITY ENCROACHMENTS UNDER SEPARATE PERMITS FOR NEW CONNECTIONS OR RELOCATION OF EXISTING SERVICES. NO UTILITY WORK CAN BEGIN WITHIN THE RW WITHOUT AN APPROVED SCDOT ENCROACHMENT PERMIT FOR EACH UTILITY. SCDOT WILL NOT ALLOW AN OPEN CUT OF A STATE ROAD IF IT WAS RECENTLY RESURFACED.
5) ALL PIPE INSTALLATIONS WITHIN SCDOT RIGHT OF WAY TO MEET CURRENT SCDOT BACKFILL AND COMPACTIVE STANDARDS (SEE SCDOT STANDARD DRAWINGS SECTION 714-000).
6) THE DETAILS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. FULL SIZE DETAILS ARE AVAILABLE ON THE SCDOT WEBPAGE AT http://www.scdot.org/doinq/gd_Book.aspx
7) THE OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF DRIVEWAYS AND OTHER ACCESS POINTS, INCLUDING ANY DRAINAGE STRUCTURES. FOR AREAS WITHIN THE RIGHTS-OF-WAYS OF STATE MAINTAINED FACILITIES IN PERPETUITY. DRIVEWAY ACCESS SHALL BE MAINTAINED FOR INGRESS/EGRESS - BLOCKING OF ACCESS WILL NOT BE ALLOWED.
8) ALL SIGNS LOCATED IN SCDOT RIGHT OF WAY SHALL BE A U-CHANNEL POST AND BREAK AWAY DESIGN IN ADDITION TO MUTCD. SEE SCDOT DETAIL 651-110-00.

MUTCD 2009

- STOP SIGN - R1-1
DO NOT ENTER - R5-1
ONE-WAY SIGN - R6-1L-36
NO PARKING - R8-3 W/ R7 201P
SPEED LIMIT - R2-1
RIGHT TURN ONLY - R3-5R

CONSIDERABLE EFFORT HAS BEEN MADE TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES. SOME LOCATIONS ARE ACTUAL FIELD MEASUREMENTS AND SOME ARE TAKEN FROM UTILITY RECORDS. THIS PLAN DOES NOT WARRANT THAT UTILITIES ARE SHOWN ACCURATELY NOR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING DIGGING OPERATIONS. CALL PALMETTO UTILITIES PROTECTION SERVICE AT 1-888-721-7877 A MINIMUM OF 3 WORKING DAYS BEFORE DIGGING. ANY UTILITIES UTILITIES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.

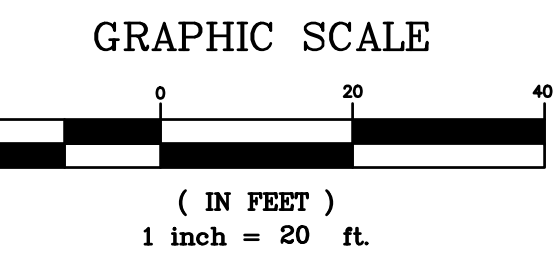
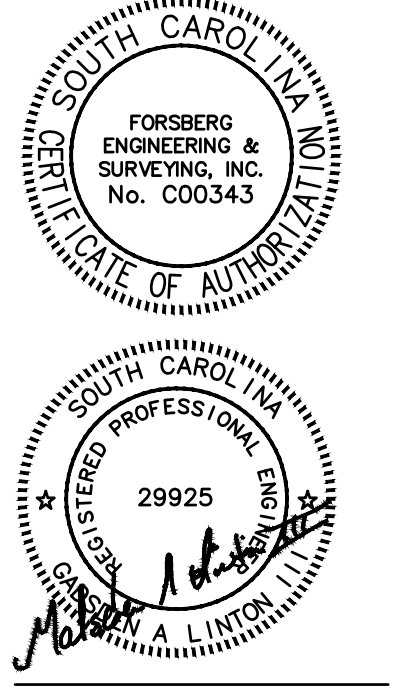


Table with columns for REV, DATE, and DESCRIPTION.



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PROJECT MGR: SM
DRAWN BY: TL
CHECKED BY: GL
APPROVED BY: TL
DATE ISSUED FOR: CDS 11/23/2020

NEW SITE PLAN

C301

GRADING, DRAINAGE, & UTILITY LEGEND:

- [7.60] — FINISHED GRADE ELEVATION
- DRAINAGE DIRECTIONAL ARROW
- DI — DROP INLET
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- RCP — REINFORCED CONCRETE PIPE
- CO — STORM CLEAN OUT
- NEW STORM DRAIN PIPE
- SD — STORM DRAINAGE TO BE LOCATED BY OTHERS
- NS — NEW SANITARY SEWER GRAVITY
- NW — NEW POTABLE WATER

GRADING NOTES:

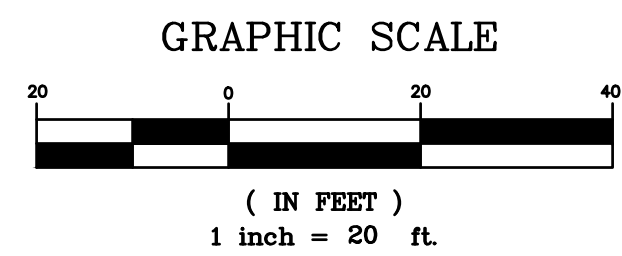
- 1) NEW STORM DRAINAGE AND SANITARY SEWER LINES SHALL BE LAID UPON GRADE AFTER CONFIRMATION OF EXISTING INVERT ELEVATIONS.
- 2) SEE SHEET C101 FOR SWPPP PLAN AND SEQUENCE OF CONSTRUCTION NOTES.
- 3) SEE LANDSCAPE PLANS AND TREE LOCATIONS & HARDSCAPE LAYOUT.
- 4) SEE SHEET C507 FOR SEWER NOTES.
- 5) SEE SHEET C506 FOR WATER SYSTEM NOTES.
- 6) ALL WORK INVOLVING CPWS LINES AND STRUCTURES SHALL BE DONE BY A CONTRACTOR FROM CPWS "APPROVED CONTRACTORS" LIST.
- 7) CONTRACTOR SHALL EXCAVATE EXISTING SANITARY SEWER LINE TO CONFIRM LOCATION & DEPTH.
- 8) SEE LANDSCAPE PLANS FOR SIDEWALK DETAILS.
- 9) SEE ARCHITECTURAL PLANS FOR FINAL BUILDING DIMENSIONS AND LAYOUT.
- 10) CONTRACTOR IS RESPONSIBLE OF ALL SWPPP AS-BUILTS.
- 11) EXISTING AND NEW SSMH, WM, WV, DRAINAGE, FIRE HYDRANTS, INLETS ETC. MUST BE ADJUSTED TO FINAL FINISHED GRADES. MINOR ADJUSTMENT MAY BE NECESSARY.
- 12) PRIOR TO PAVING, CONTRACTOR SHALL VERIFY THAT FINE GRADED BASE COURSE MEETS REQUIRED GRADES SUCH AS TO AVOID "BIRD BATH" AREAS ON FINAL PAVEMENT.
- 13) LANDSCAPING AND IRRIGATION RESPONSIBILITY OF CONTRACTOR.

PRE VERSUS POST TABLE

YEAR	PRE(cfs)	POST(cfs)	ELEV.
2	2.0	1.7	66.3
10	4.2	3.6	67.9
25	5.8	5.6	68.5
100	9.1	9.7	69.3

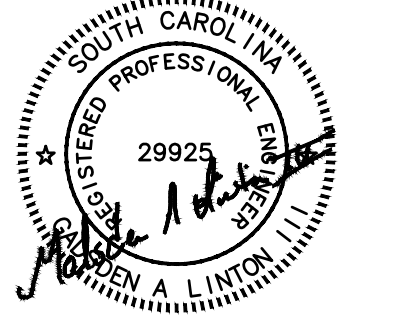
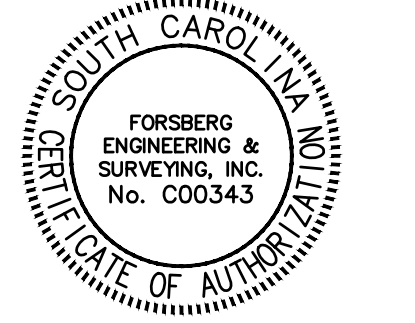


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GRADING, DRAINAGE, & UTILITY PLAN

C401

SECTION 260536 – CABLE TRAYS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes the requirements for the following:
- B. Provide cable tray system in areas indicated, complete with all supports, fittings and accessories.

1.2 SUBMITTALS

- A. Refer to section 260510.

1.3 QUALITY ASSURANCE

- A. Products: Listed and classified by Underwriters Laboratories Inc. as suitable for purpose specified and shown
- B. The drawings, which constitute a part of these specifications, indicate the general route of the cable tray systems. Data presented on these drawings is as accurate as preliminary surveys and planning can determine until final equipment selection is made. Accuracy is not guaranteed and field verification of all dimensions, routing, etc., is required by the contractor.
- C. Drawings are for assistance and guidance, but exact routing, locations, distances and levels will be governed by actual field conditions. Contractor is directed to make field surveys as part of his work prior to submitting system layout drawings.

PART 2 - PRODUCTS

2.1 CENTER SUPPORTED CABLE TRAY

- A. Acceptable manufacturers, contingent upon compliance with the contract documents, are as listed below. Bidders shall carefully review the requirements listed in the technical specifications and only submit products that are equal or better. Equal products by other manufacturers are acceptable providing substitutions are submitted in accordance with requirements listed in the "Instructions to Bidders" and approved by the A/E. Bidders shall carefully review the front end documents (AIA A701) and submit all information required to allow the A/E the ability to make a fully informed decision.
 - 1. Basis of design manufacturers
 - a. Mono-Systems, Inc.
 - b. Atlas
 - c. B-line
 - d. Legrand CABLOFIL
- B. Complete assembly of cable tray, and necessary accessories, shall be free of burrs and sharp edges.
- C. Tray shall be constructed of a center rectangular aluminum tube which forms a spine to which cross rungs are attached on 9 inch centers.
- D. The cross rungs shall be bent up at their ends to the height of 4 inches to form a center supported, open sided, ladder like assembly. The tray shall not have side rails. Tray width: 12" inches, unless noted otherwise.

PART 3 - EXECUTION

3.1 LAYOUT

- A. Layout of cable tray is the responsibility of the Contractor. Coordinate location with building structure and other trades to ensure that the tray is readily accessible. Tray shall not be installed more than 18" above ceilings, without written permission by the Architect.
- B. Provide sufficient space encompassing wire basket to permit access for installing and maintaining cables.

3.2 INSTALLATION

- A. Provide all connector assemblies, clamp assemblies, connector plates, splice plates and splice bars, and mounting hardware required for a complete system.
- B. Splice Connectors: Sections of tray shall be joined using a two bolt rectangular splice connector which telescopes into the spine of the tray. Splice connectors shall allow for thermal expansion/contraction of the tray system.
- C. Supporting: The tray shall be supported on 12- foot centers, maximum
- D. Bracing and Leveling: Brace trays on intervals required to prevent lateral movement. After installation of cables by other trades, adjust supports and braces so that tray is level.
- E. Trough-type raceway sections and cable tray sections shall be made electrically continuous by short bonding jumpers between adjacent sections.
- F. Ground all cable tray and trough.
- G. Fittings: All fittings, inserts, covers, couplings, connectors and other accessories required to effect a complete rigid mechanical installation shall be provided and shall be listed as suitable for use with cable tray.
- H. Bushings: Provide conduit bushings and bond to ground, attached to tray, to accommodate conduit sleeves terminated at tray or trough. Conduits shall be supported within 6" of tray, independent of tray supports.
- I. Cable tray and trough loading: Provide cross-section of cable tray for every wing/area to show proposed location/spacing of cables. Layout of cables in tray is the contractor's responsibility. Maintain required spacing between cables of different systems while leaving room for the future installation of 25% additional cables.

END OF SECTION 260536