



ARCHITECTURE

Project:	FLORENCE COUNTY VOTER REGISTRATION & ELECTIONS COMMISSION BUILDING
Addendum No.:	ONE
Date:	June 3, 2010

A. General

1. The following items are written response to clarification of questions raised during Pre-bid conference held on June 2, 2010:
 - a. Property Insurance: The Contractor is responsible for maintaining property insurance as indicated in the Supplementary Conditions. Refer to the Project Manual and section 00801, Supplementary Conditions, Article 11.4 for requirements.
 - b. Special Inspections: Any special inspections (as defined by the International Building Code) are as indicated in Contract Documents. If special inspections are required, the Owner shall contract directly with special inspector(s) for these services.
 - c. Materials Testing: A general materials' testing allowance is indicated in section 01020, subparagraph 3.3 of the Project Manual.

2. The address for the new Florence County Voter Registration and Elections Commission building is 219 Third Loop Road, Florence, SC 29505.

THE FOLLOWING INFORMATION SHALL BE ADDED TO THE CONTRACT DOCUMENTS:

B. Architectural

1. See attached specification 02825, Color Chain Link Fence System (5 pages).

2. See attached specification 04720, Cast Stone (Architectural Precast Concrete) (5 pages).

3. Refer to Project Manual and specification section 07610, Metal Roofing
 - a. Subparagraphs 2.1 A.1 and 2.1 B
 - 1). Butler Products' VSR II™ is approved as a manufacturer and equivalent metal roof panel for area with 1:12 roof pitch.
 - 2). Chief Buildings' MVF is approved as a manufacturer and equivalent metal roof panel for area with 1:12 roof pitch.
 - 3). Construction Metal Products, Inc.'s CMP S-2500 is approved as a manufacturer and equivalent metal roof panel for area with 1:12 roof pitch.
 - 4). MBCI's BattenLok® HS is approved as a manufacturer and equivalent metal roof panel for area with 1:12 roof pitch.
 - b. Subparagraphs 2.1 A.2 and 2.1 B
 - 1). Construction Metal Products, Inc.'s CMP S-1000 is approved as a manufacturer and equivalent metal roof panel for area with 6:12 roof pitch.
4. Refer to Project Manual and specification section 10160, Toilet Partitions
 - a. Subparagraph 2.1 D
 - 1). Accurate Partitions Corp. is approved as a manufacturer of equivalent partitions.
 - 2). Columbia Partitions is approved as a manufacturer of equivalent partitions.
5. Refer to Project Manual and specification section 10730, Aluminum Covers
 - a. Subparagraph 2.01 A.1
 - 1). Mapes Industries, Inc. is approved as a manufacturer of equivalent aluminum canopy.
 - 2). Mason Corporation is approved as a manufacturer of equivalent aluminum canopy.
6. Refer to Project Manual and specification section 10800, Toilet Accessories
 - a. Subparagraph 2.1 A
 - 1). Columbia Accessories is approved as a manufacturer of equivalent accessories.
7. Refer to Project Manual and specification section 10811, Rapid Drying Electric Hand Dryer
 - a. Subparagraph 2.1 A
 - 1). Columbia Vortex® is approved as a manufacturer of equivalent hand dryer.

8. Refer to Project Manual and specification section 13120, Pre-engineered Metal Buildings and to the drawings.
 - a. Exterior metal wall panels shall be VP's Vee Rip or equal.
 - b. Interior metal wall panels at OPEN AREA 1008A and 1008B shall be VP's LPR 36 or equal.

9. Refer to drawing sheet A1.1, Floor Plan.
 - a. Provide Pipe Bollards as indicated on supplemental drawings. See attached Supplemental Drawings SD-01 and SD-02 dated 06.01.10.

10. Refer to drawing sheet A6.0, Reflected Ceiling Plan.
 - a. See attached Supplemental Drawings SD-03 and SD-04 dated 06.01.10.

11. Refer to drawing sheet A7.1 and to the Room Finish Schedule.
 - a. MECHANICAL ROOM 1007A: no ceiling.
 - b. ELECTRICAL / LAN 1007B: no ceiling.
 - c. ELECTION RECORDS 1012: provide 2 X 2 ceiling type in lieu of type shown.
 - d. PAPER FILING 1013: provide 2 X 2 ceiling type in lieu of type shown.
 - e. PERMANENT RECORDS 1015: provide 2 X 2 ceiling type in lieu of type shown.

12. Refer to drawing sheet A7.1 and to the Window Schedule.
 - a. Glass type at window nos. 102, 103, 104 and 105 shall be "G-2" in lieu of type shown.

13. Refer to drawing sheet A7.1 and to Glass Types.
 - a. Glass type "G-4": Provide FireLite Plus® fire-rated, safety-rated glass ceramic with premium surface finish as manufactured by TPG (Technical Glass Products) or approved equal.

14. Refer to drawing sheet A7.2 and to the Door Schedule.
 - a. Door 012 shall be door type "C" in lieu of type shown.
 - b. Doors 031 and 032: rating is not required.
 - c. Door 034: size is 3'-0" X 4'-2"

- d. Doors 004, 012 and 013: Provide FireLite Plus® fire-rated, safety-rated glass ceramic with premium surface finish as manufactured by TPG (Technical Glass Products) or approved equal.

15. Refer to drawing sheet A7.2 and to the Door Schedule Notes.

- a. Note 03: provide tempered glass at door type “HG” in addition to the door types already listed.

16. Refer to drawing sheet A8.0-1 and to “X1, Typical Elevation at Toilet”

- a. Height of ceramic wall tile shall be 6’-10 ½” in lieu of height shown.
- b. Ceiling height shall be 9’-0” in lieu of height shown.

C. Civil

1. See attached “Overall Utility Plan Addendum” from Ervin Engineering (1 page). Note the following revisions per Ervin Engineering:
 - a. We are removing the option of locating the backflow preventer in the building. The backflow preventer will be located at the street as shown.
 - b. We are removing the 2” gate valve from our potable service and are now referencing the gate valve found on sheet P3.0 as the tie-in point for the potable water line.
 - c. We have added sewer service elevations and extended the sewer service to the back of the building, so that it will not have to be extended in the future possibly conflicting with the transformer.

D. Mechanical (Plumbing and HVAC)

1. See attached from Mechanical Design, Inc. dated June 2, 2010 (1 page).
2. Refer to drawing sheet M1
 - a. Delete reference to the following note, “ADD FIRE TUNNEL AND WE CAN ELIMINATE ALL BUT 3 FIRE/SMOKE DAMPERS”
 - b. Delete reference to the following note, “ADD FIRE CEILING TO ELECTRICAL ROOM”

Florence County – Voter Registration & Elections Commission Building
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E. Electrical

1. See attached letter from John Ray Williams and Associates dated June 1, 2010 (1 page).
2. See attached letter from John Ray Williams and Associates dated June 2, 2010 (1 page).
3. ADT-3000 (EST3) as manufactured by Edwards System Technology has been approved as an alternate addressable fire alarm system.

END OF ADDENDUM No. 1

SECTION 02825 – COLOR CHAIN LINK FENCE SYSTEM

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The contractor shall provide all labor, materials and appurtenances necessary for installation of the color chain link fencing system defined herein.

1.2 RELATED DOCUMENTS

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

1.3 SUMMARY

- A. This Section includes the following:
 - 1. Color chain link fencing system (permanent).
- B. Related Sections: The following sections contain requirements that relate to this section:
 - 1. Division 2 – Site Work
 - 2. Division 3 – Concrete for concrete for post footings.

1.4 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
 - 1. Product data in the form of manufacturer's technical data, specifications, and installation instructions for fence and gate posts, fabric, gates, and accessories.
 - 2. Shop drawings showing location of fence, gates, each post, and details of post installation, extension arms, gate swing, hardware, and accessories.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Obtain chain link fences and gates as complete units, including necessary erection accessories, fittings, and fastenings from a single source or manufacturer.

PART 2 - PRODUCT

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Color chain link fencing and fabric:
 - a. American Chain Link Fence Company
 - b. Ameristar
 - c. Anchor Fence, Inc.
 - d. Capitol Wire and Fence Co., Inc.
 - e. Century Tube Corp.
 - f. Master Halco, Inc.

g. Merchants Metals

2.2 FABRIC

- A. The material for chain link fence fabric shall be manufactured from galvanized steel wire. The weight of zinc shall meet the requirements of ASTM F688, Table 4. Galvanized wire shall be PVC-coated to meet the requirements of ASTM F688. The class of the fence shall be
- B. Selvage: Fabric 72 inches high and over with 2- or 2-1/8-inch mesh shall be knuckled at one selvage and twisted at the other; all mesh 60 inches high and under shall be knuckled at both selvages.
- C. Steel Fabric: Comply with Chain Link Fence Manufacturers Institute (CLFMI) Product Manual. Furnish one-piece fabric widths for fencing up to 12 feet high. Wire size includes PVC coating.
 - 1. Size: 2-inch mesh, 8-gage (0.162-inch diameter) wire.
- D. Color: The coating color for the fence fabric shall be **black**. Reference ASTM F668 and ASTM F934.

2.3 FRAMING

- A. Strength requirements for posts and rails conforming to ASTM F669.
- B. Pipe shall be straight, true to section, material, and sizes specified, and shall conform to the following weights per foot:

NPS in <u>inches</u>	Outside Diameter (OD) in <u>inches</u>	Type	Type	<u>Aluminum</u>
		I <u>Steel</u>	II <u>Steel</u>	
1	1.315	1.68	1.35	0.435
1-1/4	1.660	2.27	1.84	0.786
1-1/2	1.900	2.72	2.28	-----
2	2.375	3.65	3.12	1.260
2-1/2	2.875	5.79	4.64	2.004
3	3.500	7.58	5.71	-----
3-1/2	4.000	9.11	6.56	3.151
4	4.500	10.79	----	-----
6	6.625	18.97	----	6.564
8	8.625	28.55	----	9.878

- C. Steel Framework, General: Posts, rails, braces, and gate frames.
 - 1. Type I Pipe: Hot-dipped galvanized steel pipe conforming to ASTM F1083, plain ends, standard weight (schedule 40) with not less than 1.8 oz. zinc per sq. ft. of surface area coated.
 - 2. Type II Pipe: Manufactured from steel conforming to ASTM A569 or A446, grade D, cold formed, electric welded with minimum yield strength of 50,000 psi and triple coated with minimum 0.9 oz. zinc per sq. ft. after welding, a chromate conversion coating and a clear polymer overcoat. Corrosion protection on inside surfaces shall protect the metal from corrosion when subjected to the salt spray test of ASTM B117 for 300 hours with the end point of 5 percent Red Rust.

3. C Section: Rolled form steel shapes conforming to ASTM F669, group II produced from steel conforming to A446, grade D, or ASTM A570, grade 45, cold formed, hot-dip galvanized with minimum 2.0 oz. zinc per sq. ft. of surface area conforming to ASTM A123 or ASTM A525; or 5 percent aluminum-mischmetal coated with minimum 1.0 oz. coating per sq. ft. of surface area each side conforming to ASTM A875.
 4. H Section: Hot-rolled steel H shape with minimum yield strength of 45,000 psi conforming to ASTM F669, group III and hot-dip galvanized with minimum 2.0 oz. zinc per sq. ft. of surface area conforming to ASTM A123.
 5. Square Tubing: Fabricated from steel conforming to ASTM A500, grade B and hot-dip galvanized with minimum 2.0 oz. zinc per sq. ft. of surface area conforming to ASTM A123.
 6. Up to 6 feet: 2.875-inch OD Type I or II steel pipe, 2.50-inch square galvanized steel tubing weighing 5.10 lbs. per lin. ft., or 3.5-inch x 3.5-inch roll-formed sections weighing 4.85 lbs. per lin. ft.
 7. Over 6 feet to 13 feet: 4.00-inch OD Type I or II steel pipe.
 8. Over 13 feet to 18 feet: 6.625-inch OD Type I steel pipe.
 9. Over 18 feet: 8.625-inch OD Type I steel pipe.
- D. Top Rail: Manufacturer's longest lengths, with expansion-type couplings, approximately 6 inches long, for each joint. Provide means for attaching top rail securely to each gate corner, pull, and end post.
1. Galvanized Steel: 1-1/4-inch NPS (1.66-inch OD) Type I or II steel pipe or 1.625-inch by 1.25-inch roll-formed C sections weighing 1.35 lb. per ft.
- E. Color: The color of all framework shall be **black** in accordance with ASTM F934.

2.4 FITTINGS AND ACCESSORIES

- A. Material: Comply with ASTM F626. Mill-finished aluminum or galvanized iron or steel, to suit manufacturer's standards.
1. Zinc Coating: Unless specified otherwise, galvanize steel fence fittings and accessories in accordance with ASTM A153, with zinc weights per Table I.
- B. Tension Wire: 0.177-inch-diameter metallic-coated steel marcelled tension wire conforming to ASTM A824 with finish to match fabric.
1. Type I Aluminum Coated with a minimum coating weight of 0.40 oz. per sq. ft. of uncoated wire surface.
- C. Tie Wires: 12-gage (0.106-inch diameter) galvanized steel with a minimum of 0.80 oz. per sq. ft. of zinc coating of surface area in accordance with ASTM A641, Class 3 or 9-gage (0.106-inch-diameter) aluminum wire alloy 1100-H14 or equal, to match fabric core material.
- D. Post Brace Assembly: Manufacturer's standard adjustable brace at end and gate posts and at both sides of corner and pull posts, with horizontal brace located at midheight of fabric. Use same material as top rail for brace, and truss to line posts with 3/8-inch-diameter rod and adjustable tightener. Provide manufacturers standard galvanized steel or cast iron or cast aluminum cap for each end.
- E. Bottom and Center Rail: Same material as top rail. Provide manufacturer's standard galvanized steel or cast iron or cast aluminum cap for each end.
- F. Post and Line Caps: Provide weathertight closure cap for each post. Provide line post caps with loop to receive tension wire or top rail.

- G. Tension or Stretcher Bars: Hot-dip galvanized steel with minimum length 2 inches less than full height of fabric, minimum cross-section of 3/16 inch by 3/4 inch and minimum 1.2 oz. zinc coating per sq. ft. of surface area. Provide one bar for each gate and end post, and two for each corner and pull post, except where fabric is integrally woven into post.
- H. Tension and Brace Bands: Minimum 3/4-inch-wide hot-dip galvanized steel with minimum 1.2 oz. zinc coating per sq. ft. of surface area.
 - 1. Tension Bands: Minimum 14 gage (0.074 inch) thick.
 - 2. Tension and Brace Bands: Minimum 12 gage (0.105 inch) thick.
- I. Color: The color of all exposed fittings and accessories shall be **black** in accordance with ASTM F934.
- J. Concrete: Provide concrete consisting of Portland cement, ASTM C150, aggregates ASTM C33, and clean water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 2500 psi. Use at least 4 sacks of cement per cu. yd., 1-inch maximum size aggregate, maximum 3-inch slump, and 2 to 4 percent entrained air.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install fence in compliance with ASTM F567. Do not begin installation and erection before final grading is completed, unless otherwise permitted.
- B. Excavation: Drill or hand-excavate (using post-hole digger) holes for posts to diameters and spacings indicated, in firm, undisturbed or compacted soil.
 - 2. If not indicated on drawings, excavate holes for each post to minimum diameter recommended by fence manufacturer, but not less than 4 times largest cross-section of post.
 - 3. Unless otherwise indicated, excavate hole depths approximately 3 inches lower than post bottom, with bottom of posts set not less than 36 inches below finish grade surface.
- C. Setting Posts: Center and align posts in holes 3 inches above bottom of excavation. Space maximum 10 feet o.c., unless otherwise indicated.
 - 1. Protect portion of posts above ground from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.
 - a. Unless otherwise indicated, extend concrete footings 2 inches above grade and trowel to a crown to shed water.
- D. Top Rails: Run rail continuously through line post caps, bending to radius for curved runs and at other posts terminating into rail end attached to posts or post caps fabricated to receive rail. Provide expansion couplings as recommended by fencing manufacturer.
- E. Center Rails: Provide center rails where indicated. Install in one piece between posts and flush with post on fabric side, using rail ends and special offset fittings where necessary.
- F. Brace Assemblies: Install braces so posts are plumb when diagonal rod is under proper tension.

- G. Bottom Tension Wire: Install tension wire within 6 inches of bottom of fabric before stretching fabric and tie to each post with not less than same gage and type of wire. Pull wire taut, without sags. Fasten fabric to tension wire with 11-gage hog rings of same material and finish as fabric wire, spaced maximum 24 inches o.c.
- H. Fabric: Leave approximately 2 inches between finish grade and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Install fabric on security side of fence, and anchor to framework so that fabric remains in tension after pulling force is released.
- I. Tension or Stretcher Bars: Thread through or clamp to fabric 4 inches o.c., and secure to end, corner, pull, and gate posts with tension bands spaced not over 15 inches o.c.
- J. Tie Wires: Use U-shaped wire of proper length to secure fabric firmly to posts and rails with ends twisted at least 2 full turns. Bend ends of wire to minimize hazard to persons or clothing.
 - 1. Maximum Spacing: Tie fabric to line posts 12 inches o.c. and to rails and braces 24 inches o.c.
- K. Fasteners: Install nuts for tension bands and hardware bolts on side of fence opposite fabric side. Peen ends of bolts or score threads to prevent removal of nuts.
- L. Gates: Install gates plumb, level, and secure for full opening without interference. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

END OF SECTION 02825

SECTION 04720– CAST STONE (ARCHITECTURAL PRECAST CONCRETE)

PART 1- GENERAL

1.1 SCOPE

- A. This specification covers all labor, materials and services incidental to and including the furnishing and setting of all Cast Stone as indicated on the drawings and specified herein.
- B. The Manufacturer shall be responsible for all labor, materials, equipment and services necessary for and incidental to providing all Cast Stone covered by this specification.
- C. The setting contractor shall unload, receipt for, store and set all Cast Stone covered by this specification and shall provide and install all anchors for same.

1.2 MANUFACTURER

- A. The Manufacturer shall have a minimum of ten (10) years continuous operation, having experience, adequate facilities and capacity to furnish the quality, sizes and quantity of Cast Stone required without delaying the progress of the work, and whose products have been previously used and exposed to the weather with satisfactory results.
- B. “TannerStone”, manufactured by Architectural Concrete Company (1.800.789.4841), a member of the Cast Stone Institute, is an approved product.
- C. For nomenclature purposes, the products and terminology of Tannerstone have been used.
- D. Other manufacturers may be considered subject to approval by the architect.

1.3 DRAWINGS

- A. Scale and/or full size detail drawings will be furnished where necessary by the Architect, and they shall be accurately followed in the execution of this work.
- B. The Cast Stones Manufacturer shall prepare and submit for approval, complete properly marked setting drawings, showing detail and sizes of stones; arrangement of joints; bonding; inserts; joints; connections to adjoining walls or materials; reinforcing; and method of installation and anchoring.
- C. Unless otherwise specified, shop drawings shall provide the following:
 - 1. Provide suitable wash on all exterior sills, coping, projecting courses and pieces with exposed top surfaces.
 - 2. Windowsills shall have raised fillets at the back.
 - 3. All projecting pieces and soffet stones shall have drips under the outer edge.
 - 4. The shop drawings shall show the setting mark of each stone and its location on the structure. The stone when delivered shall bear the same corresponding setting mark on an exposed surface.
- D. The Manufacturer shall submit the shop drawings to the General Contractor. The General Contractor shall verify all dimensions and coordinate the drawing with field conditions. The General Contractor shall submit shop drawings to the Architect for approval.
- E. The shop and setting drawings shall be approved by the Architect and General Contractor before the Manufacturer shall be required to proceed with the work.

1.4 MODELS AND MOULDS

- A. Should models of ornaments be required, all models shall be prepared by skilled craftsmen in a correct and artistic manner in strict accordance with the spirit and intent of the approved drawings. Models shall be approved by the architect before any work is executed therefrom.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cement – Portland Type I or Type III White and/or Gray meeting ASTM C150.
- B. Fine aggregate – carefully graded and washed natural sands, or manufactured granite, quartz or limestone sands meeting ASTM C33 except that gradation may vary to achieve desired finish and texture.
- C. Coarse aggregate – carefully graded and washed natural gravel, or crushed, graded stone such as granite, quartz, limestone or other durable stone meeting ASTM C 33 except that gradation may vary to achieve desired finish and texture.
- D. Color – All colors added shall be inorganic (natural or synthetic) iron oxide pigments meeting ASTM C 979 excluding the use of a cement grade of carbon black pigment, and shall be guaranteed by the pigment manufacturer to be lime proof. The amount of pigment shall not exceed 10% by weight of the cement used.
- E. Admixtures – ASTM C 494.
- F. Water – shall be potable tap water free from impurities.
- G. Air Entrainment – Wet cast mixtures shall maintain 5% to 7% air entrainment where surfaces are exposed to freeze-thaw. Admixture shall meet ASTM C 260.

2.2 PROPERTIES OF MIX DESIGN

- A. The manufacturer shall be responsible to design a mix which achieves both the strength and the surface finish design.
- B. Compressive strength shall be not less than 6500 psi at 28 days when tested in accordance with the requirements of this specification.
- C. The average water absorption of Cast Stone shall not exceed 6% by dry weight when tested in accordance with the requirements of this specification.

2.3 REINFORCEMENT

- A. Cast Stone shall be reinforced with new billet steel reinforcing bars meeting ASTM A 615, grade 40 or grade 60, when necessary for safe handling, setting and structural stress, and the size of the reinforcing shall be specified. If the surfaces are to be exposed to the weather, the reinforcement shall be galvanized or epoxy coated when covered with less than 2 inches of material for bars larger than 5.8 and 1 1/12 inches for bars 5.8 inch or smaller. The material covering in all cases shall be at least twice the diameter of the bars.

- B. Cast Stone panels shall be reinforced as may be reinforced as may be required for handling to allow for temperature changes and structural steel. There shall be a minimum steel reinforcement amounting to ¼ percent of the sectional area of the panel and should the panel be greater than 12 inches in any sectional dimension, the temperature steel shall be placed in both directions.
- C. Where applicable, cold-drawn steel wire reinforcement meeting ASTM A 82, Welded Wire Fabric reinforcement meeting ASTM A 185 or ASTM A 497 or steel bar or rod mat reinforcement meeting ASTM A 184 may be used.

2.4 COLOR AND FINISH

- A. The manufacturer shall submit to the Architect, for selection approval, samples of the Cast Stone specified which will be typical of the general range of color and finish to be furnished.
- B. Exposed surface, unless otherwise specified, shall exhibit a typically fine-grained texture similar to natural stone with no bugholes permitted.
- C. Color and texture of Cast Stone shall be generally equal to the approved sample when viewed in direct daylight at a 10-foot distance.
- D. The range of total acceptable color (lightness, color saturation and hue) variations shall not exceed CIELAB 3.0 provided that the difference in hue alone does not exceed CIELAB 1.0 as defined by the International Commission of Illumination, 1976 Standards.

PART 3 - EXECUTION

3.1 TOLERANCES

- A. Stone dimensions – The numerically greater of plus or minus 1/8 inch or length/360.
- B. Setting tolerances – plus or minus 1/8 inch allowable out of lane from adjacent unit.

3.2 TESTING

- A. Testing shall be performed in accordance with ASTM C 31, ASTM C 39 and ASTM C 642 except that 2 inch cube specimens shall be used, oven-dried in accordance with ASTM C 97.
- B. Test results shall be determined by the average of three specimens per test.
- C. The results of compression tests shall be divided by a factor of 0.8 when saw-cut or core-drilled specimens are used.

3.3 DELIVERY AND STORAGE

- A. All Cast Stone shall be carefully loaded and packed for transportation, exercising customary and reasonable precaution against damage while in transit.
- B. All Cast Stone shall be received and unloaded at the project site by competent workmen with the necessary care and handling to avoid damage and soiling.
- C. The Cast Stone material shall be stored clear of the ground on non-staining planking or pallets in such a manner as to be protected from damage while in storage. Should Cast Stone be stored for an extended period, cover with polyethylene or other non-staining waterproof material.

3.4 SETTING

- A. All Cast Stone shall be set by experienced masons, accurately and in accordance with the shop and setting drawings. Unless other wise noted, every stone shall be set in a full bed of mortar with all vertical joints flushed full. All anchors and dowels shall be firmly placed and all anchor holes and dowel holes and similar holes filled completely with mortar or non-shrink grout.
- B. All anchors, dowel and other anchoring devices shall be furnished by the setting contractor as shown on approved shop drawings, using whenever possible, standard building stone anchors, commercially available in a non-corrosive material such as galvanized steel, brass, or stainless steel – Type 302 or 304.
- C. When setting with mortar, all stones not thoroughly wet shall be drenched with clear water just prior to setting.
- D. After each stone has been set, all joints shall be raked to a depth of $\frac{3}{4}$ inch from the face for pointing. The face of each stone shall then be sponged off to remove any splashed mortar or mortar smears.
- E. Only the ends of lugged sills and similar stones shall be embedded in mortar. The balance of joint to be left open until pointing of stone work, then tuck points on face only to a depth of $\frac{3}{4}$ inch.
- F. All cornices, copings, projecting belt courses, steps, platforms and in general, all stone areas either partially or totally horizontal, shall be set with unfilled vertical joints. After setting, insert properly sized balk up material or backer rod to proper depth, prime the ends of the stone, gun in sealant.
- G. All stone shall be protected from splashing mortar or damage by other trades.
- H. Any foreign matter splashed on the stone should be removed immediately.

3.5 PATCHING AND CLEANING

- A. The repair of chipped or damaged Cast Stone shall be done only by mechanics skilled in the class of work with materials furnished by the Manufacturer and according to this direction.
- B. Before pointing, the face of all Cast Stone shall be scrubbed with a fiber brush, using soap power and water and shall then be thoroughly rinsed with clean, running water. Any mortar on the face of the Cast Stone shall be removed. No acids or prepared cleansers shall be used without the approval of the Cast Stone manufacturer.

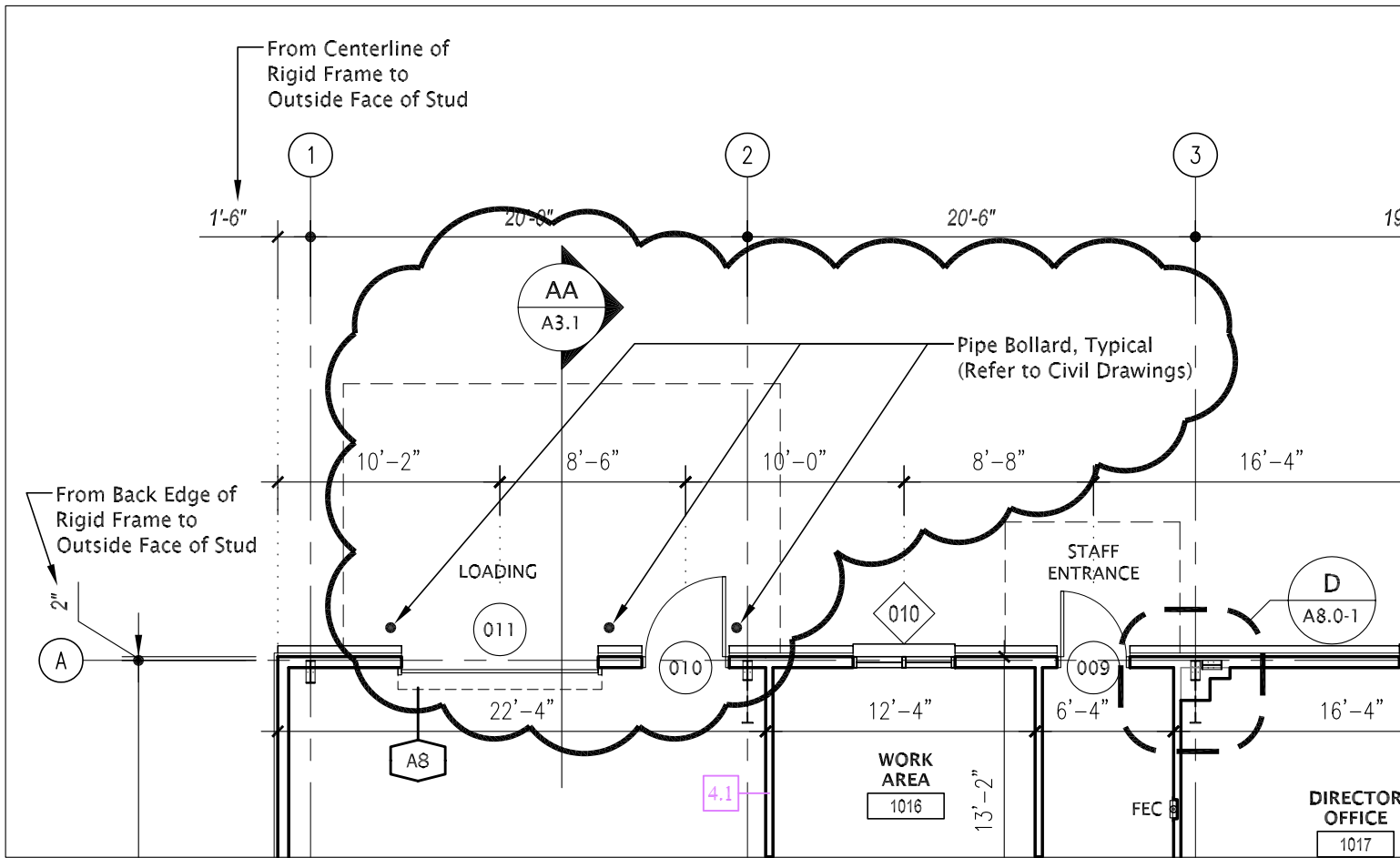
3.6 POINTING AND CAULKING

- A. When ready for pointing, the joints shall be dampened and carefully pointed to a slight concave unless otherwise specified by the Architect. No pointing shall be done in freezing weather nor in locations exposed to hot sun, unless properly protected. Pointing mortar shall be composed of 1 part non-staining cement (ASTM C91), 1 part hydrate lime (ASTM C 207-Type S) and 4 parts of clean, washed sand (ASTM C 144). Coloring pigments may be added as required. The Architect shall approve color pointing mortar before proceeding with pointing.
- B. Head joints in coping and similar stones shall be caulked with a joint sealant used in accordance with the manufacturer's instructions.

3.7 INSPECTION AND ACCEPTANCE

- A. Applicable standards for inspection and quality control shall be ACI Committee 311 Manual of Concrete Inspection and PCI MNI-117 Manual for quality Control for Plants and Production of Architectural Precast Concrete Products.
- B. Cast Stone shall show no obvious repairs or imperfections other than minimal color variations when viewed with the unaided eye at a 20 foot distance in good, typical daylight illumination.

END OF SECTION 04720



Supplemental Drawing | SD-01

NOTE REGARDING PIPE BOLLARDS

(Reference Drawing: A1.1)

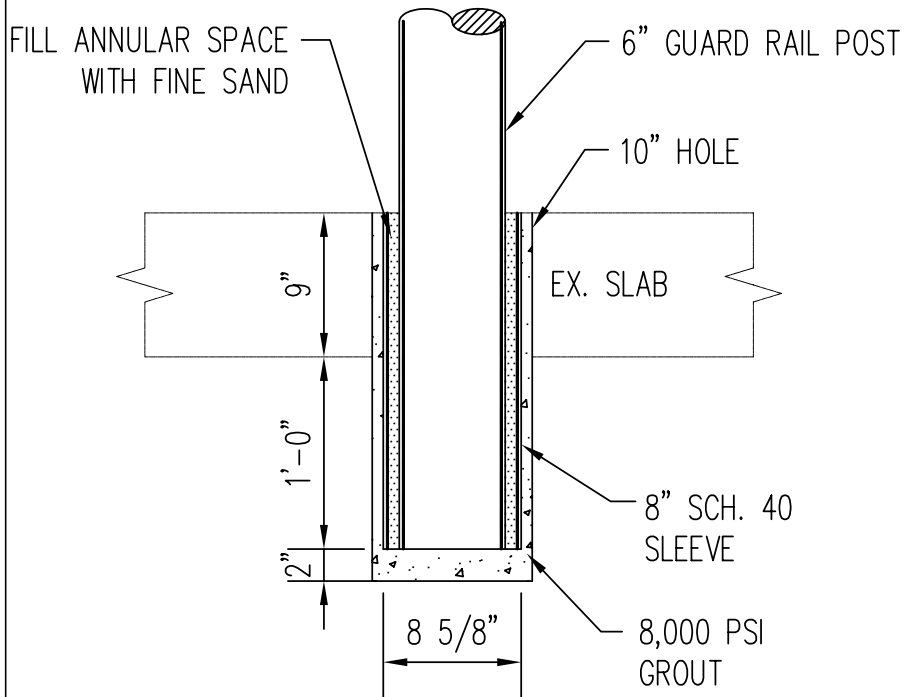
Scale: 1/8" = 1'-0"

DATE: 06.01.10



Florence Co. Voter's Registration
& Election Commission

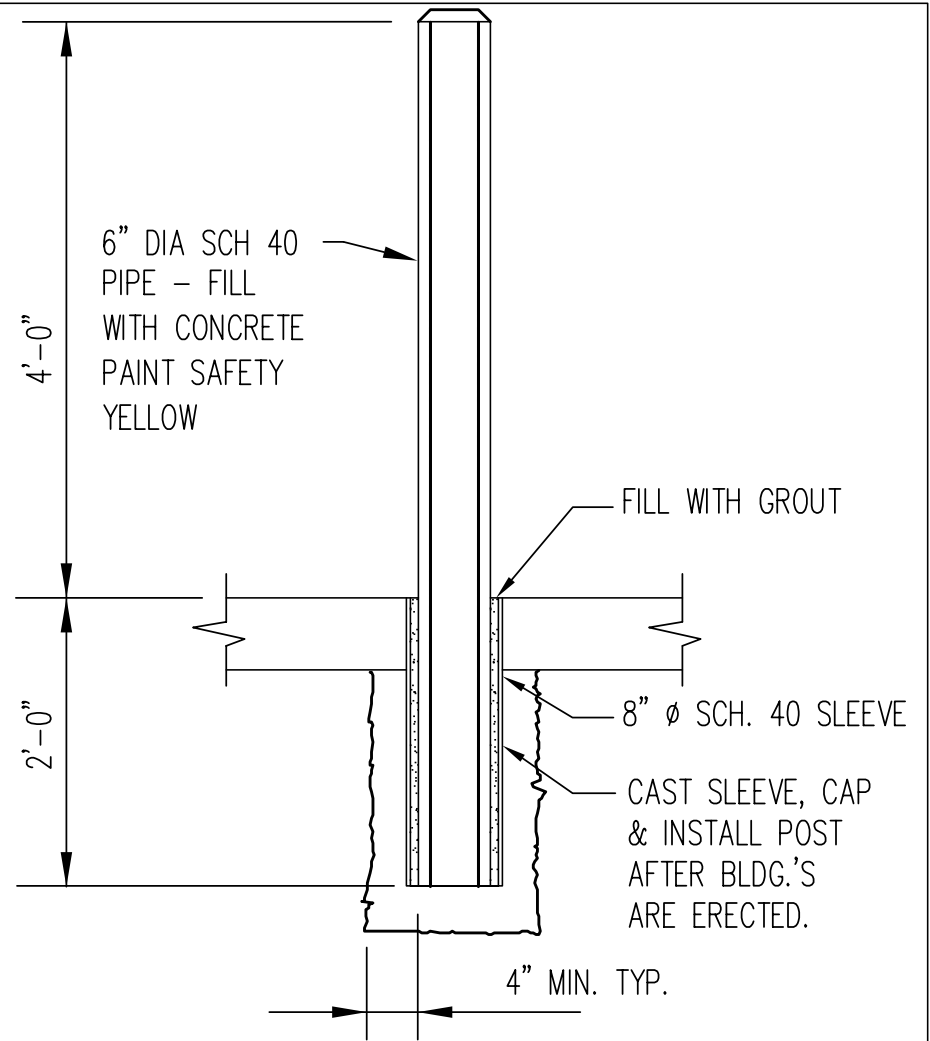
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POST ANCHORING DETAIL

REF. THIS DWG.

SCALE: 1" = 1'-0"



BOLLARD DETAIL

NTS



Florence Co. Voter's Registration
& Election Commission

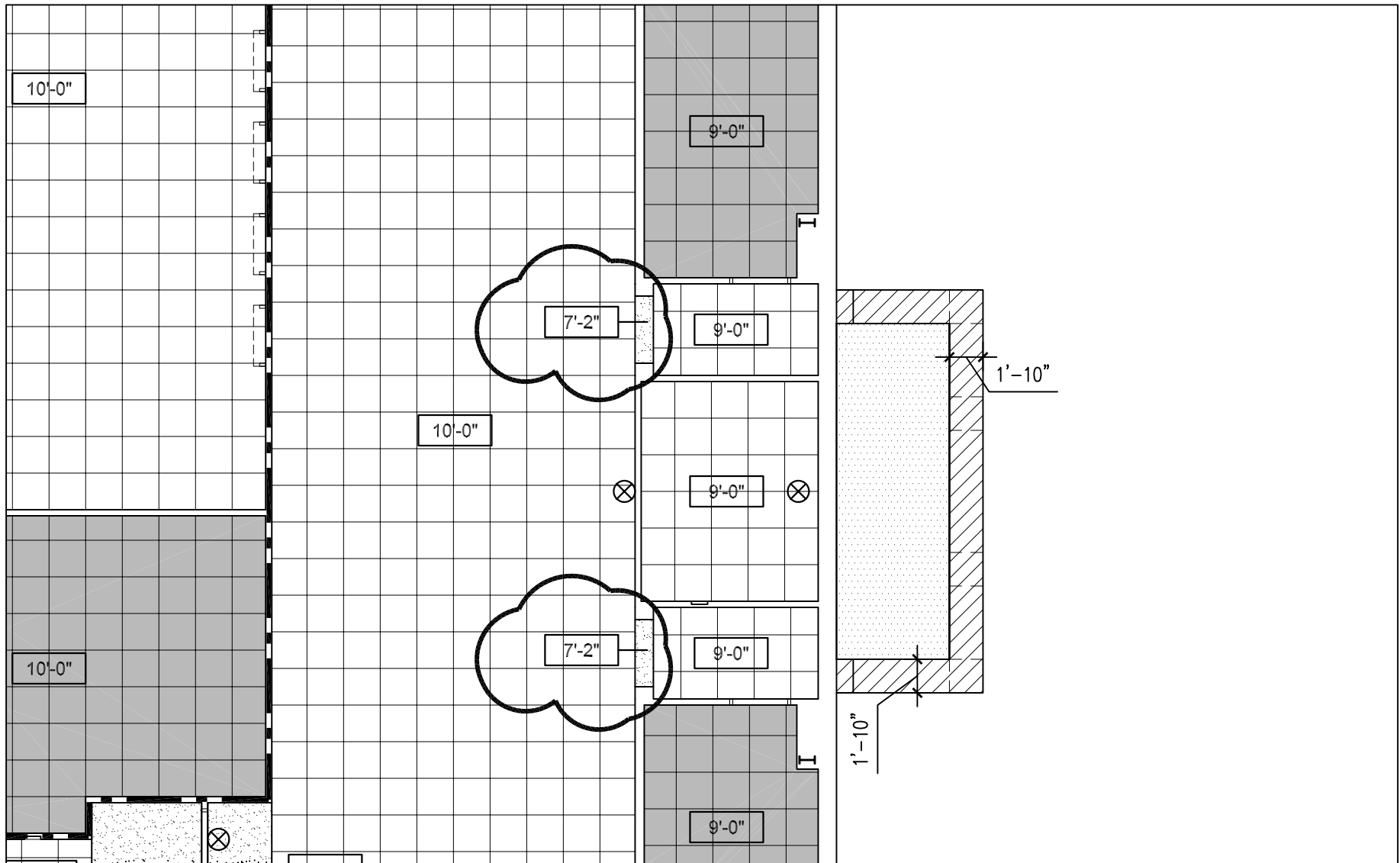
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Supplemental Drawing | SD-02

BOLLARD DETAIL

Scale: Note Above

DATE: 06.01.10



Florence Co. Voter's Registration
& Election Commission

Proj. # 1095

Supplemental Drawing | SD-03

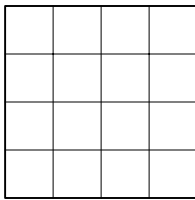
CHANGE TO SOFFIT HEIGHTS

(Reference Drawing: A6.0)

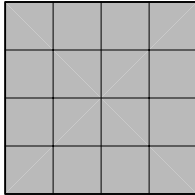
Scale: 1/8" = 1'-0"

DATE: 06.01.10

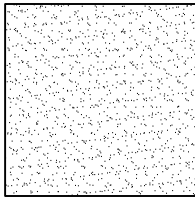
RCP LEGEND



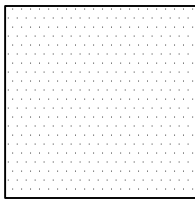
2 x 2 Suspended Acoustical Tile (S.A.T.)



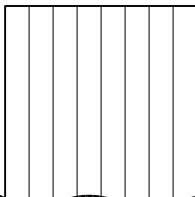
2 x 2 Suspended Acoustical Tile (S.A.T.)
w/ Sound Attenuation Batt Insulation
above



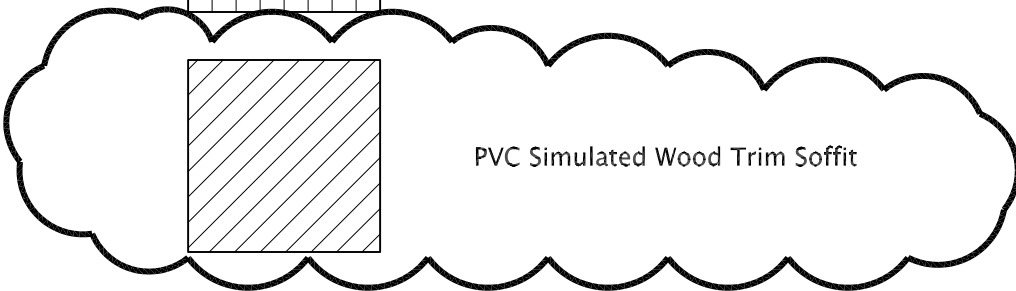
Gypsum Soffit, Furring, or Ceiling



EIFS Ceiling



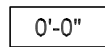
Aluminum Soffit Panel



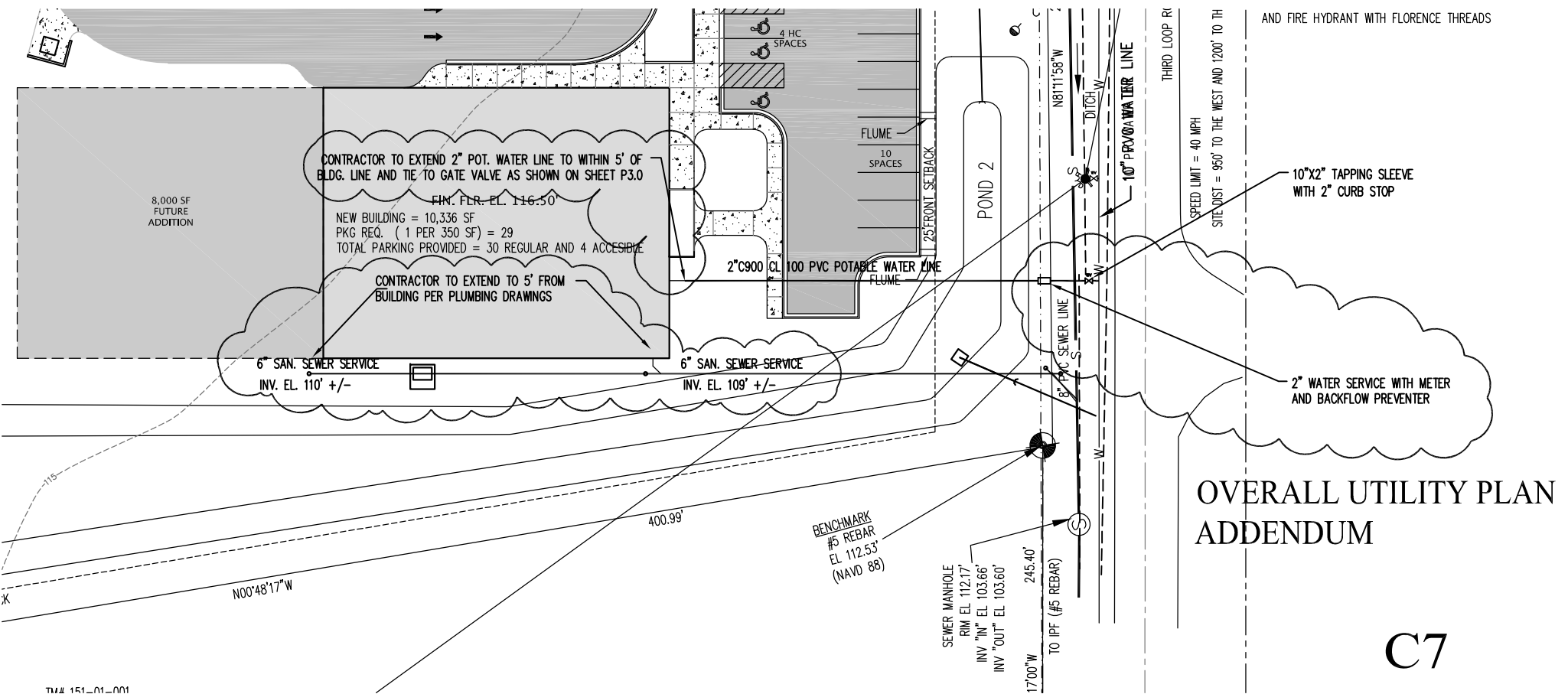
PVC Simulated Wood Trim Soffit



EXIT SIGN (See also Electrical Drawings)



Ceiling Height - Above Finish Floor
(A.F.F.)



OVERALL UTILITY PLAN ADDENDUM

C7

ADDENDUM

To: Kevin Almers

Date: June 2, 2010

From: Mechanical Design, Inc.

Project: **Florence Cty Voter Registration and Elections Commission**
Florence County, South Carolina

Comm No. **092778**

Please include the following items for Division 15 in your next Addendum:

ITEMS PERTAINING TO THE PLUMBING DRAWINGS

1. Sht P1.0: - Refer to Plumbing Symbols and delete reference to FD1
- Contractor shall coordinate Typical Vent Flashing Detail with Pipe Flashing Detail, sht A5.0
2. Sht P3.0: - Refer to Partial Plumbing Plan - C and change the FD1 with round strainer in Toilet 1021 and Toilet 1022 to FD3 with square strainer.

ITEMS PERTAINING TO THE PLUMBING SPECIFICATIONS

1. Section 15600, paragraph 2.9.E: Delete reference to FD1 floor drain.

ITEMS PERTAINING TO THE HVAC DRAWINGS

1. Sht M1: - Relocate refrigerant piping from HP-1 thru HP-4 to rise in exterior wall at Open Area 1008B. Relocate refrigerant piping from HP-5 thru HP-8 to rise in exterior wall at Executive Session Room 1006. Do not route refrigerant piping above Elec/Lan 1007B.

End Of Plumbing/HVAC Addendum

John Ray Williams and Associates
Consulting Electrical Engineers
3918 Rosewood Drive
Columbia, South Carolina 29205

Telephone 803.782.5411

Fax 803.782.5551

SOUTH CAROLINA

GEORGIA

June 1, 2010

Mr. David Bailey
Collins and Associates
615 South Coit Street
Florence, South Carolina 29501

Re: Voter Registration Office

Dear David,

Please issue the following information in your next addendum:

Refer to sheet E3 and to the lighting plan.

- 1-Ceiling grid shall be 2X2 in area 1012, 1013 and 1015.
- 2-Move light switch to opposite side of door 009 in corridor 1014.
- 3-Add one type "XA" exit light in area 1002 for door 032 leading to corridor 1009.

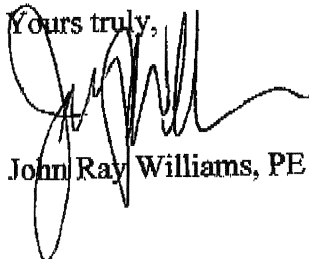
Refer to sheet E4 and to the power plan.

- 1-Provide operating power to four fire shutters between 1002 and 1024.
- 2-Coordinate power outlet for hand dryers in toilets with architectural plans.
- 3-All receptacles serving the counter in area 1024 shall be installed at 18".
Coordinate with millwork shop drawings.
- 4-In area 1007 shift Panels to miss steel framing for the building.

Refer to sheet E5 and to the communications plan.

- 1-Release four fire shutters between 1002 and 1024 upon "fire-alarm".
- 2-Release fire door 032 between 1002 and 1009 upon "fire-alarm".
- 3-All data outlets serving the counter in area 1024 shall be installed at 18".
Coordinate with millwork shop drawings.

Yours truly,



John Ray Williams, PE

John Ray Williams and Associates
Consulting Electrical Engineers
3918 Rosewood Drive
Columbia, South Carolina 29205

Telephone 803.782.5411

Fax 803.782.5551

SOUTH CAROLINA

GEORGIA

June 2, 2010

Mr. Kevin Almers
Collins and Associates
P.O. Box 3009
Florence, South Carolina 29502

Re: Voter Registration Office

Dear Kevin,

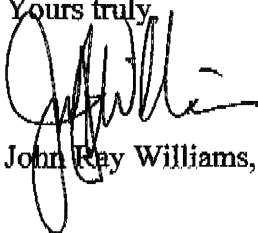
Please issue the following information in your next addendum:

1-Refer to sheet E1 and to the Electrical Symbols. Add a symbol – wall outlet circle with a square in the center. This represents a data outlet with 1”C. to above the ceiling. These symbols are found on sheet E5. Add a symbol – wall outlet diamond with dot in the center. This represents a Cooper switch #ALM. This symbol is found on sheet E3. Add a symbol – ceiling outlet square with an “R” in the center. This represents a Cooper relay pack #SPD20 MV NO. This symbol is found on sheet E3. Add a symbol – ceiling outlet circle with an “M” in the center. This represents a Cooper occupancy sensor #OMC DT 2000R. This symbol is found on sheet E3.

Approved equals: Lighting fixtures represented by the following companies and that have been submitted to this office will be acceptable.

The James G. Murphy Company (Lithonia)
The Schneider Company (Daybrite)
Carolina Architectural Lighting (Hubbell)

Yours truly,



John Ray Williams, PE