

ADDENDUM #1

March 23, 2018

**UNC Charlotte Sycamore Hall Renovation
Charlotte, North Carolina
SCO #16-12735**

This addendum is pursuant to the University of North Carolina General Administration Instructions to Bidders and General Conditions of the Contract in connection with the revision of Bidding Documents which have been previously issues.

Addenda are issued prior to execution of Contract. All instructions contained herein shall be reflected in the Contract Sum and this Addendum will be made a part of the Contract Documents, if, as and when a Construction Contract is awarded.

This Addendum forms a part of the Contract Documents and modifies the original documents dated February 28, 2018, as noted below. Acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so will subject the Bidder to disqualification.

REVISIONS TO THE PROJECT MANUAL:

1. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. Form of Proposal – Replace page FOP-3 (page 3) with attached page.
2. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 012100 – Replace pages 3-4 with attached pages.
3. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 012200 – Replace page 2 with attached page.
4. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 012300 – Replace page 2 with attached page.
5. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 084413 – Replace page 3 with attached page.
6. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 232113 – Replace page 6 with attached page.

7. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 237313 – Replace page 2 with attached page.
8. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 260513 – Replace page 3 with attached page.
9. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 260533 – Replace page 3 with attached page.
10. Revise the project manual by replacing spec sheets/sections/individual pages with the following project manual sheets as follows:
 - a. SECTION 030130 – Replace pages 3-4 with attached pages.

REVISIONS TO DRAWINGS

1. SBD-001, Addendum #1 revisions to detail 9/S801.
2. Replace Sheet FP001 with attached Sheet FP101.
3. Replace Sheet E006 with attached Sheet E006.
4. Replace Sheet AF100 with attached Sheet AF100.

BIDDER CLARIFICATION REQUESTS

#	RFI/ Substitution Request	Response
1	Please clarify if blinds are required at Office 106 and Conference 306. Are interior blinds required at Office 202D?	Blinds are required at Office 106. Blinds are NOT required at Conference 306 and Office 202D. See revisions on attached Sheet AF100.
2.	Are groove mechanical joints approved for chilled water piping over 2-1/2" or is it only approved for hot water piping?	Yes, it is approved for chilled water pipes over 2-1/2".

ATTACHMENTS

1. PRE-BID CONFERENCE MEETING MINUTES
2. PRE-BID CONFERENCE ATTENDANCE SHEET
3. GOOD FAITH EFFORT REQUIREMENT
4. FORM OF PROPOSAL, PAGE FOP-3.
5. SPECIFICATION SECTION 012100 – PAGES 3-4.
6. SPECIFICATION SECTION 012200 – PAGE 2.
7. SPECIFICATION SECTION 012300 – PAGE 2.
8. SPECIFICATION SECTION 084413 – PAGE 3.
9. SPECIFICATION SECTION 232113 – PAGE 6.
10. SPECIFICATION SECTION 237313 – PAGE 2.
11. SPECIFICATION SECTION 260513 – PAGE 3.
12. SPECIFICATION SECTION 260533 – PAGE 3.
13. SPECIFICATION SECTION 030130 – PAGES 3-4.
14. SBD-001 – ADDENDUM #1 REVISIONS.
15. SHEET FP001 – FIRE PROTECTION CRITERIA
16. SHEET E006 – ELECTRICAL DETAILS
17. AF100 – FINISH SCHEDULE

March 23, 2018

Pre-Bid CONFERENCE MEMORANDUM

UNC Charlotte Sycamore Hall Renovation SCO Project ID# 16-12735

Participants: See attached Attendance List

A Pre-Bid Meeting was held on March 22, 2018 in Room 127 of the McEniry Building on the UNC Charlotte main campus located at 9201 University City Boulevard, Charlotte, NC 28223. The meeting was held to review the project bidding requirements, scope of work, Public Hearing for Preferred Brand Alternate and a building tour. The following items were discussed.

1. The project representatives were introduced (Owner, Designer, User) and the attendance sign-in sheet was passed around. Each participant was given a copy of the meeting agenda and Good Faith Effort Requirements.
2. The project accepts Single Prime Bids. Bidding Contractors must be properly licensed. Refer to General Statutes 87-1 for requirements. All bids must be received by Thursday, April 5, 2018 at 3:00 p.m. and will be opened publicly and read aloud at that time. The location for bids to be opened is: Cone Center, Room 208. All mailed deliveries to Capital Projects are to be received by 2:00 PM at 9151 Camron Boulevard, Charlotte NC 28223.
3. Bid documents are available for Prime Contractors (GCs) through the Architect. Electronic bid documents will be provided at no cost to GCs by contacting thameed@morrisberg.com. A \$300.00 refundable deposit is required per package. Documents are also available for review at the Office of the Architect, UNC Charlotte, www.ConstructConnect.com, www.construction.com www.mmcaofcharlotte.org.
4. Please use the bid form included in the Specifications, and make sure you are using the correct form for the project that you intend to bid. Any modifications to the Bid Form will be grounds for disqualification. Please fill in all blanks for alternates and unit prices. If you decide to not bid on an alternate, please write in "No Bid". Pay close attention to the MBE forms required. The State's MBE forms are included in Section 003000 of the Specifications and are also listed at the end of the Bid Form. They include the I.D. of HUD Certified/Minority Business Participation, Affidavit A or Affidavit B. Bids do require a Bid Bond in the amount of 5%, and this must be included with the bid. Information on allowable forms of the Bid Bond are included in the Instructions to Bidders.
5. The project goal for MBE participation is a 15% aspirational goal. All forms must be submitted with Bids. The proper MBE participation forms must be submitted with the bid. As previously stated, Identification of Minority Participants, and either Appendix A or B.

Contact Dorothy Vick at UNC Charlotte for assistance with locating minority subcontractors for this project. Communication with minority contractors is required 10 days prior to bid. See attached UNC Charlotte "Good Faith Effort" Requirements (Sycamore Hall Renovation).

6. Schedule – It is the Owner's goal to provide Notice to Proceed in June 2018. The Construction time is 270 calendar days from the Notice to Proceed. Liquidated Damages are included in the amount of \$250 per calendar day from 271-300 days. Liquidated damages in the amount of \$1,000 will be assessed after day 300.
7. Substitutions / Clarifications - All requests for substitutions clarification must be submitted through Prime Contractors to the office of the Architect in writing or by electronic mail no later than 10 days prior to the bid date on March 28, 2018. Follow the Instructions to Bidders for Substitution requests. Responses to requests for clarification or RFIs will be provided in writing by way of addendum. The last addendum will be released March 29, 2018.
8. Project Scope – A brief description of the project scope was provided. Details regarding project scope are defined in the Bid Documents.
Alternates for the project are as follows:
 - Alternate #1: Provide complete price to paint exposed ceilings, as indicated on Drawings or in Specifications.
 - Alternate #6: Provide complete price to provide up-fit renovations to the fourth floor of the Project building.
 - Alternate #7: Provide complete price to provide LED lighting in lieu of Fluorescent fixtures, as indicated on the drawings.
 - Alternate #8: Provide complete price to provide Sprinkler System, as indicated in the Drawings and Specifications.Allowances and Unit Prices are included on the bid form and are further defined in the Specifications.
9. Presentation of Preferred Brand Alternates – To provide consistency for UNC Charlotte, Preferred Brand Alternates are listed and have been discussed in the Pre-Bid Meeting with no objections. They are as follows:
 - Provide and install Schlage ND Series cylindrical locksets.
 - Provide and install Von Duprin 8/99 series exit/panic devices.
 - Provide and install HES 1006 Von Duprin heavy duty electric strikes.
 - Provide and install Schlage Everest D and Schlage Primus C.
10. Additional Comments/Questions:
 - Question: Can the addenda changes in the drawings and specifications be "clouded" in the new bid set? Response: The addenda have been incorporated into the current bid set of documents. These are not and will not be clouded in the current bid set.
 - Question: What happens if the project is bid over budget? Response: UNC Charlotte will assess the bids when they are received and provide direction accordingly.

- Question: Are furnishings in the existing building going to be removed? Response: UNC Charlotte will be responsible for removing all items prior to GC mobilizing.
- Question: Are additional hazardous materials located in the building other than what is shown in the Bid Documents? Response: The hazardous materials survey and removal diagrams are included in the Bid Set. No other known hazardous materials are present on this project.

11. At the close of the meeting the participants were invited to meet at the site. The Architect and UNC Charlotte personnel conducted a walk-through of the site to further explain the scope of work.

End of Notes - Participants are requested to provide written responses to the Architect for any corrections or additions to these minutes.

By: Tarik Hameed
Morris-Berg Architects

Copy: Participants; Planholders

ATTENDANCE LIST

Pre-Bid Conference

Thursday, March 22, 2018 (3:00 PM)



UNC Charlotte – Sycamore Hall Renovation

PLEASE PRINT CLEARLY

NAME	COMPANY	EMAIL
Brian Kugler	UNC Charlotte-Capital Projects	bhkugler@uncc.edu
Dorothy Vick	UNC Charlotte-Capital Projects	dlvick@uncc.edu
Joshua Kallam	UNC Charlotte-Capital Projects	jkallam@uncc.edu
Troy Russell	UNC Charlotte ITS	tbrussel@uncc.edu
Jeff Michael	Urban Institute	jmichael@uncc.edu
Jody Cebina	Distance Education	jcebina@uncc.edu
Todd Berg	Morris-Berg Architects	tberg@morrisberg.com
David Luceri	Horizon Engineering	dluceri@horizon-engineering.com
Chris Hoover	W.C. Construction Company	chrish@wconstructionco.com
Tracy Hammond	EHG	thammond@ehgllc.com
Derek Meachum	Momentum Construction	dmeachum@mvmomentum.com
Jason Kepley	H.M. Kern	emilyk@hmkern.com , jkepley@hmkern.com
Mark Fasser	Heartland Contracting	mfasser@heartlandnc.com
Josh Craft	Shiel Sexton	jcraft@shielsexton.com
Ed Roper	NJR Construction, LLC	eroper@njr-construction.com
Nelson Benitez	NJR Construction	rbenitez@njr-construction.com
Rick Reed	Sonco Temporary Fence	rreed@soncoc.com
Mark Mabe	CCI	Marck.mabe@cci-env.com
Darmel Lee	Global Team Electric	globalteamelectric@gmail.com

John Decker	Roof Depot	rdecker@roofdepotpros.com
Roger Sellers	Platinum Building Automation	rsellers@platinumbuildingautomation.com
John Rocan	JR Mechanical, LLC	jrocan@rjmechanical1.com
Jacob Adams	RRS Demo	jacob@rrsdemo.com
Josh Spencer	Barton Malow	Josh.spencer@bartonmalow.com
Shad McGlothlin	Stuart Page Company	shad@stuartpagecompany.com
Michell Long	Mijulo Contracting	Michell.long@mijulocontracting.com
Rafael Medina	Aguacource, LLC	rmedina@aguasourcellc.com
Justin Dossie	Oneliance	jdossie@oneliance.com
Mark Stevens	Oneliance	mstevens@oneliance.com
Melia Mauldin	Miles-McClellan	Melia.maudlin@mmbuildings.com
Michael Pollok	Radco Roofing	mpollok@radcoroofing.com
Dean Slate	Barton Malow	Dean.slate@bartonmalow.com
Matthew Morrison	PC Godfrey	mmorrison@pcgodfrey.com
Erica Hubbard	All Things Pro	erica@allthingscleaning.com

UNC Charlotte
“Good Faith Effort” Requirements
(Sycamore Hall Renovation)

This information is provided as a guide for firms who may be new to UNC Charlotte and may not be familiar with our expectations regarding minority business participation on University Managed Projects (UMP) projects. Bidders should be familiar with the ***Guidelines for Recruitment & Selection of Minority Businesses for Participation In University of North Carolina Construction Contracts***

Identification of HUB Certified/Minority Business Participation form – Only list minority firms that you will use as construction subcontractors, vendors, suppliers or professional service providers on this project. The bidder cannot list himself on this form as he cannot subcontract to himself. **Note:** This form should be submitted with your bid, even if left blank.

Affidavit A – Listing of Good Faith Efforts – the bidder is certifying that he has made a good faith effort to comply under those areas checked on the form. Do not check a Good Faith Effort item unless you can provide the following;

1. Contacting minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor or available on State or local government maintained lists **at least 10 days before the bid or proposal date** and notifying them of the nature and scope of the work to be performed.
Example: Copies of written (emailed or faxed) notification to minority businesses and copies of quotes/proposals received for work solicited to minority businesses. Notification should include, at a minimum, project location, location where plans and specifications may be obtained or viewed, trade or scopes of work for which subcontracts are being solicited, contact person within the prime contractor organization.

Be sure to maintain a telephone log to confirm that minority firms received your Invitation For Bid (IFB). The log should contain the date contacted, telephone number, and name of the individual representing the minority firm who acknowledged receipt of your IFB. **Also maintain a telephone log to confirm that minority firms acknowledged a “bid/no bid” to your IFB.** The log should contain the date contacted, telephone number, and name of the individual representing the minority firm who acknowledged “bid/no bid” to your IFB.

2. Making the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bid or proposals are due.
Copies of written (emailed or faxed) notification to minority businesses should include, at a minimum, project location, location where plans and specifications may be obtained or viewed, trade or scopes of work for which subcontracts are being solicited, contact person within the prime contractor organization.
3. Breaking down or combining elements of work into economically feasible units to facilitate minority participation.
Document steps taken to segment elements of work into economically feasible units to meet minority business availability. Identify sub-contractors/suppliers/consultants and scope of work involved in segmenting.

Be sure that you are soliciting quotes from **at least** three (3) minority firms in scopes of work that typically have adequate numbers of minority firms available that can perform the work required (hauling, concrete, flooring, masonry, painting, electrical suppliers, etc.). Do not solicit quotes from minority firms in those scopes of work that typically do not have minority firms available that can perform the work required (elevators, fire suppression systems, roofing, etc.). If there are minority firms that you typically use on your projects then by all means, feel free to use them, if you are sure you are receiving reasonable pricing and quality work.

4. Working with minority trade, community or contractor organization identified by the Office for Historically Underutilized Businesses (HUB) and included in the bid documents that provide assistance in recruitment of minority businesses. **Note:** Minority plan rooms are not applicable.
Provide a copy of meeting minutes between prime contractor and minority trade, community or contractor organization. At minimum the following topics should be discussed/reviewed during the meeting: project location; location where plans and specifications may be obtained or viewed; trade or scopes of work for which subcontracts are being solicited; bonding requirements; insurance requirements; prime contractor’s contact person; minority trade, community or contractor organization contact person; strategies to segment elements of the work into economically feasible units to meet minority business availability; strategies to increase minority business utilization through joint ventures and/or partnerships; notification that the meeting will be counted toward the contractor’s good faith effort.

Maintain a copy of the request, and have the date, telephone number and name of the individual who acknowledged receipt of your request and information regarding any/all assistance provided by the organization

5. Attending any pre-bid meetings scheduled by the public owner.
Attendance will be verified by conference sign-in sheet.
6. Providing assistance in getting required bonding or insurance or providing alternatives to bonding or insurance for subcontractors.

Have documentation describing the type of assistance provided or offered to minority businesses. Provide names and contacts of minority businesses to which assistance was offered and names of the contact person of bonding companies or financial institutions offering assistance.

Be sure to mention that assistance with bonding and/or insurance will be provided in your IFB.

7. Negotiating in good faith with interested minority businesses and not rejecting them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
Document number of bids received from minority businesses in the trade or scopes of work for which subcontracts are being solicited, the number of minority businesses that submitted low bids or proposals, the number of minority businesses the bidder has offered to negotiate prices or services, and the number of minority businesses the bidder has agreed to utilize on the project, outline steps taken.
8. Providing assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required or assisting minority businesses in obtaining the same unit pricing with the bidder's supplier.
Document names, addresses and telephone numbers of minority businesses to which assistance was offered, outline steps taken. Give dates assistance was offered and document outcome.
Be sure to mention that assistance with equipment, loan capital, lines of credit or joint pay agreements to secure loans, supplies, or letters of credit will be provided in your IFB.
9. Negotiating joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
Provide a copy of joint venture or partnership arrangements between bidder and minority businesses.
10. Providing quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.
Provide a copy of quick pay agreements and/or policies and document the number of minority businesses that will utilize the quick pay agreement. Provide a copy of the quick pay agreement between bidder and minority businesses.
Be sure to mention that quick pay agreements will be provided to assist contractors with cash-flow demands in your IFB.

Note: Referencing the Good Faith Efforts listed above in your IFB is not enough. You must be able to document your efforts.

Affidavit B – Intent to Perform Contract with Own Workforce – In making this certification the bidder is stating that he does not customarily subcontract elements of this type project and normally performs and has the capability to perform and will perform all elements of the work on this project with his own current workforce. The bidder agrees to make a Good Faith Effort to utilize minority suppliers where possible. “**Self-performing**” means the contractor has all equipment, personnel and supplies on hand to perform the contract. If the contractor needs to purchase supplies or rent equipment and operators to perform the work, then the contractor **is not** self-performing and should make efforts to purchase supplies or equipment, or temporary labor from minority firms. **Note:** No other Affidavits are required if the Bidder meets this criteria.

Affidavit C – Portion of the Work to be Performed by HUB Certified/Minority Businesses – This form is to be submitted only by the apparent lowest responsible, responsive bidder with equal to or greater than 10% minority participation.

Affidavit D – Good Faith Efforts – This form is to be submitted only by the apparent lowest responsible, responsive bidder with less than 10% minority participation along with their backup documentation.

Minority-owned Pre-qualified Bidders – **must also** meet the minority participation goals set for the project. Work performed by the minority-owned pre-qualified bidder will be counted towards the minority participation goal **only if** the minority contractor is **self-performing** and submitted Affidavit B.

Certification Requirements – Ensure the minority firms you contact for subcontracting opportunities are listed in the Statewide Uniform Certification (SWUC) Vendor database as **only firms** listed in the SWUC Vendor database, at the time of contract award, **will be counted** towards the minority participation goal for this project. Go to <http://www.doa.nc.gov/hub/searchhub.aspx> for access to the SWUC Vendor database.

Assistance:

Email (Email Subject: **UNC Charlotte Sycamore Hall Renovation**) the UNC Charlotte HUB Coordinator, Dorothy Vick (dlvick@uncc.edu) no later than **12:00 Noon March 23, 2018** for the following:

1. **Assistance in finding certified minority firms who have worked on UNC Charlotte projects and who can perform the scopes of work (site work, concrete, electrical, etc.) you are seeking, and/or**
2. **A list of minority trade, community or contractor organizations** identified by the Office for Historically Underutilized Businesses that provide assistance in recruitment of minority businesses.

7. **Alternate No. 7: LED Lighting**
 a. Provide complete price to provide LED lighting fixtures in lieu of Fluorescent fixtures, as indicated in the Drawings and Specifications.

(Add) *(Deduct)* _____ Dollars(\$)

8. **Alternate No. 8: Sprinkler System Upfit**
 a. Provide complete price to provide Sprinkler System, as indicated in the Drawings and Specifications.

(Add) *(Deduct)* _____ Dollars(\$)

9. **Alternate No. 9: Pinehall Brick Pavers**
 a. Provide complete price to provide Pinehall Brick Company pavers, in lieu of other manufacturers.

(Add) *(Deduct)* _____ Dollars(\$)

UNIT PRICES:

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work all in accordance with the contract documents.

<u>Item</u>	<u>Price/Unit</u>	<u>Quantity in Base Bid</u>
UP-1 Composite Structural Reinforcing for Elevated Concrete Slabs (Top of Slab)	_____per each installation	80 Repairs (per Allowance)
UP-2 Composite Structural Reinforcing for Elevated Concrete Slabs (Bottom of Slab)	_____per each installation	80 Repairs (per Allowance)
UP-3 Interior Exit Sign Installation	_____per each exit sign	As indicated on Drawings

The bidder further proposes and agrees hereby to commence work under this contract on a date to be specified in a written order of the designer and shall fully complete all work thereunder within the time specified in the Supplementary General Conditions Article 23. Applicable liquidated damages amount is

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:
 An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal

2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

Allowance No. 1- Quantity Allowance: In the Base Bid, include an allowance for 80 top slab repairs (Top Bars Cut) for new penetrations in existing reinforced slab. See Structural Drawing S801 for Slab Reinforcement System Requirements. Charges against this allowance shall be applicable only under the following conditions:

1. Location of existing reinforcing has been identified by approved methods in accordance with the Structural Drawings.
2. A coring plan has been submitted to the Design Team for review and approval.
3. The Design Team has had an opportunity to make recommended location modifications to avoid the use of corrective measures.
4. Coordinate quantity allowance adjustment with unit-price requirements in Section 012200 "Unit Prices."

Allowance No. 2- Quantity Allowance: In the Base Bid, include an allowance for 80 bottom slab repairs (Bottom Bars Cut) for new penetrations in existing reinforced slab. See Structural Drawing S801 for Slab Reinforcement System Requirements. Charges against this allowance shall be applicable only under the following conditions:

1. Location of existing reinforcing has been identified by approved methods in accordance with the Structural Drawings.
2. A coring plan has been submitted to the Design Team for review and approval.
3. The Design Team has had an opportunity to make recommended location modifications to avoid the use of corrective measures.
4. Coordinate quantity allowance adjustment with unit-price requirements in Section 012200 "Unit Prices."

Allowance No. 3- Quantity Allowance: In the Base Bid, include an allowance for the installation of Interior Exit Signs. See Drawings for quantities. Charges against this allowance shall be applicable only under the following conditions:

1. Authorities having jurisdiction are requiring additional Interior Exit Signs.
2. The Design Team has had an opportunity to review additional request.
3. Coordinate quantity allowance adjustment with unit-price requirements in Section 012200 "Unit Prices."

END OF SECTION 012100

3.1 LIST OF UNIT PRICES

- A. Unit Price No. 1– Composite Structural Reinforcing for Elevated Concrete Slabs
Top of Slab Unit price: Estimated quantity: See Section 012100; Part 3.1A Allowance No. 1, given 8 feet long installations (4 feet on each side of opening centerline). Quantities are approximate. See drawings for penetration locations:

\$_____per each installation

Each installation consists of one or more reinforcing elements providing equivalent structural capacity to one existing 3/4” diameter (#6) ASTM A 615 Grade 40 reinforcing bar.

- B. Unit Price No. 2 – Composite Structural Reinforcing for Elevated Concrete Slabs

Bottom of Slab Unit price: Estimated quantity: See Section 012100; Part 3.1A Allowance No. 2, given 8 feet long installations (4 feet on each side of opening center- line), including fire protection system. Quantities are approximate. See drawings for penetration locations:

\$_____per each installation

Each installation consists of one or more reinforcing elements providing equivalent structural capacity to one existing 3/4” diameter (#6) ASTM A 615 Grade 40 reinforcing bar.

- C. Unit Price No. 3 – Interior Exit Sign Installation Including Labor and Materials to furnish and Install. Estimated quantity: See Drawings for Quantities.

\$_____per sign.

END OF SECTION 012200

3.1 SCHEDULE OF ALTERNATES

- A. Alternates as required to ensure that the Project can be bid within the funds available. This list is provided below:
1. Alternate No. 1: Paint Exposed Ceilings
 - a. Provide complete price to paint all exposed ceilings, as indicated on Drawings or in Specifications.
 2. Alternate No. 2: Cylindrical Locksets.
 - a. Provide complete price to furnish and install Schlage ND Series cylindrical lockets, in lieu of other approved manufacturers as specified in Division 8, Section 087100 "Door Hardware".
 3. Alternate No. 3: Exit/Panic Devices.
 - a. Provide complete price to furnish and install Von Duprin 98/99 Series Exit/Panic Devices, in lieu of other approved manufacturers as specified in Division 8, Section 087100 "Door Hardware".
 4. Alternate No. 4: Electric Strikes.
 - a. Provide complete price to furnish and install HES 1006 (or similar) or Von Duprin Heavy Duty Electric Strikes, in lieu of other approved manufacturers as specified in Division 8, Section 087100 "Door Hardware".
 5. Alternate No. 5: Keying.
 - a. Provide complete price to furnish and install Schlage Everest D (interior and mechanical keying) and Schlage Primus C (entry keys), in lieu of other approved manufacturers as specified in Division 08, Section 087100 "Door Hardware".
 6. Alternate No. 6: Fourth Floor Renovations:
 - a. Provide complete price to provide up-fit renovations to the fourth floor of the Project building. Provide Base Bid work as indicated on the Drawings.
 7. Alternate No. 7: LED Lighting
 - a. Provide complete price to provide LED lighting fixtures in lieu of Fluorescent fixtures, as indicated in the Drawings and Specifications.
 8. Alternate No. 8: Sprinkler System Upfit
 - a. Provide complete price to provide Sprinkler System, as indicated in the Drawings and Specifications.
 9. Alternate No. 9: Brick Pavers
 - a. Provide complete price to provide "Pinehall Brick Company" pavers, per UNC Charlotte Design and Construction Manual, in lieu of other manufacturers.

END OF SECTION 012300

1.5 Project Conditions

- A. Field Measurements: Verify actual locations of structural supports for glazed aluminum curtain-walls by field measurements before fabrication and indicate measurements on Shop Drawings.

1.6 Warranty

- A. Special Assembly Warranty: Standard form in which manufacturer agrees to repair or replace components of glazed aluminum curtain-wall systems that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Noise or vibration caused by thermal movements.
 - c. Water penetration through fixed glazing and framing areas.
 - d. Failure of operating components.
 - 2. Warranty Period: Ten years from date of Final Acceptance.

PART 2 - PRODUCTS

2.1 Manufacturers

- A. Basis-of-Design Product: The design for glazed aluminum curtain-wall systems is based on EFCO Corporation "System 5600 (2-1/2" x 5") Outside Glazed Curtain Wall." Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
 - 1. Kawneer North America; an Alcoa company.
 - 2. Oldcastle, Inc. (Vistawall Architectural Products).
 - 3. YKK AP America Inc.

B. Dimensions listed above are required for this project's existing conditions. No substitutions from these dimensional properties will be approved.

2.2 Materials

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 1. Sheet and Plate: ASTM B 209.
 - 2. Extruded Bars, Rods, Shapes, and Tubes: ASTM B 221.
 - 3. Extruded Structural Pipe and Tubes: ASTM B 429.
 - 4. Structural Profiles: ASTM B 308.
- B. Steel Reinforcement: With manufacturer's standard corrosion-resistant primer complying with SSPC-PS Guide No. 12.00 applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
 - 1. Structural Shapes, Plates, and Bars: ASTM A 36.
 - 2. Cold-Rolled Sheet and Strip: ASTM A 1008.
 - 3. Hot-Rolled Sheet and Strip: ASTM A 1011.

2.3 Framing

- A. Framing Members: Manufacturer's standard extruded or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
 - 1. Construction: Thermally improved.
- B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
 - 1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
 - 2. Reinforce members as required to receive fastener threads.
- D. Anchors: Three-way adjustable anchors with minimum adjustment of 1 inch that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.

- D. Chilled-water piping, aboveground, NPS 2-1/2 and larger, shall be any of the following:
 - 1. Schedule 40 steel pipe, wrought-steel fittings and wrought-cast or forged-steel flanges and flange fittings, and welded and flanged joints.
 - 2. Schedule 40 steel pipe; grooved, mechanical joint coupling and fittings; and grooved, mechanical joints.
- E. Makeup-water piping installed aboveground shall be the following:
 - 1. Type L, drawn-temper copper tubing, wrought-copper fittings, and soldered joints.
- F. Makeup-Water Piping Installed Belowground and within Slabs: Type K, annealed-temper copper tubing, wrought-copper fittings, and soldered joints. Use the fewest possible joints.
- G. Condensate-Drain Piping: Type DWV, drawn-temper copper tubing, wrought-copper fittings, and soldered joints.
- H. Blowdown-Drain Piping: Same materials and joining methods as for piping specified for the service in which blowdown drain is installed.
- I. Air-Vent Piping:
 - 1. Inlet: Same as service where installed with metal-to-plastic transition fittings for plastic piping systems according to piping manufacturer's written instructions.
 - 2. Outlet: Type K, annealed-temper copper tubing with soldered or flared joints.
- J. Safety-Valve-Inlet and -Outlet Piping for Hot-Water Piping: Same materials and joining methods as for piping specified for the service in which safety valve is installed with metal-to-plastic transition fittings for plastic piping systems according to piping manufacturer's written instructions.

3.2 PIPING INSTALLATIONS

- A. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.
- B. Install piping in concealed locations unless otherwise indicated and except in equipment rooms and service areas.
- C. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.
- D. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.
- E. Install piping to permit valve servicing.
- F. Install piping at indicated slopes.
- G. Install piping free of sags and bends.

- A. Include data on design, inspection and procedures related to preventative maintenance. Operation and Maintenance manuals shall be submitted at the time of unit shipment.

1.05 QUALIFICATIONS

- A. Manufacturer shall be a company specializing in the design and manufacture of commercial / industrial custom HVAC equipment. Manufacturer shall have been in production of custom HVAC equipment for a minimum of 5 years.
- B. Each unit shall bear an ETL or UL label under UL Standard 1995 indicating the complete unit is listed as an assembly. ETL or UL listing of individual components, or control panels only, is not acceptable.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under the supervision of the owner.

1.07 SEQUENCING AND SCHEDULING

- A. Coordinate work performed under this section with work performed under the separate installation contract.

1.08 WARRANTY

- A. The complete unit shall be covered by a parts warranty issued by the manufacturer covering the first year of operation. This warranty period shall start upon receipt of start-up forms for the unit or eighteen months after the date of shipment, whichever occurs first.
- B. The installing contractor shall provide labor warranty during the unit's first year of operation.

1.07 FACTORY TESTING

- A. Leakage Test and Deflection
 - 1. The casing leakage of the unit shall not exceed 1% of the design airflow of the unit when tested at 1.5 times the scheduled operating pressure. (Units under 10,000 c.f.m. shall be tested in accordance with SMACNA Class 4 requirements). Panel deflection shall not exceed 1/180th of the span of the panels for 2" walls and 1/240th of the span of the panels for 4" walls when operating at 1.5 times the scheduled operating pressure or a maximum of 12" w.c. static pressure.

PART TWO - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Provide air handling units as manufactured by TMI, Temtrol, Governair, Energy Labs, or Innovent provided the construction specifications capacities, performance criteria, and space constraints are met. Alternate products complying with the construction specifications, capacities, performance criteria, and space constraints may be submitted for consideration and must obtain written prior approval from Architect prior to bidding.

- A. Manufacturer's Qualifications: Company experienced in manufacturing Products specified in this Section with minimum of 10 years.
- B. Cable Splicer Qualifications:
 - 1. Workers' Competency: Submit high voltage cable splicer certification of competency and experience 30 days before splices or terminations are made in high voltage cables. Splicer experience during the immediate past three years shall include performance in splicing and terminating cables of the types and classification being provided under this Subcontract. In lieu of a certification of competency, a Subcontractor may demonstrate the qualifications of a proposed cable splicer through formal training and relevant experience in splicing cables of the type and class under this Subcontract.
 - 2. A notarized listing of relevant projects completed by the proposed splicer during the past three years and completed formal training must be submitted to demonstrate qualifications.
 - 3. Before assigning cable splicer to work covered by this specification, the Subcontractor shall provide the University with the names of the cable splicers to be employed, together with satisfactory proof that each splicer has had at least three years experience in splicing high-voltage cables and is experienced with the type and rating of cables to be spliced. In addition, each cable splicer may be required to make an approved dummy splice in the presence of the Project Manager in accordance with manufacturer's instructions, before the splicer is accepted to splice cable covered by this Specification.
 - 4. Material for dummy splices shall be furnished by the Subcontractor.
- C. Factory Inspection by University: Following cable fabrication, the University reserves the right to have a factory inspection and witness testing of the cable. The Subcontractor shall notify the University in writing at least three weeks prior to factory tests. The University will provide the Subcontractor with a written waiver if a factory inspection and witness testing of the cable is not to be performed by the University.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Okonite Co., General Cable (Prysmian), Kerite Co., or equal.

2.2 15KV CABLE

- A. This Specification describes requirements for 15kV Class (133 percent Insulation level) shielded power cable for use in power distribution. Cable provided must be single conductor, jacketed, and insulated with a high quality, heat, moisture, impact, ozone, and corona resistant thermosetting (ethylene propylene) rubber that shall be suitable for use in wet or dry locations in conduit, underground duct systems, direct burial, and aerial installations.
- B. Conductors:
 - 1. Conductor material shall be annealed uncoated copper in conformance with ASTM B-3.
 - 2. Conductors shall be either concentric stranded in conformance with ASTM B-8 or compact-round-stranded in conformance with ASTM B-496.

2.03 COUPLINGS, CONNECTIONS, ETC.

- A. Flexible conduit connectors shall be insulated throats. "Anti-short" bushings shall be used at all motor connections.
- B. "Split" or "Erickson" couplings.
- C. Expansion couplings.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Heavy wall intermediate metal conduit to be made up with full threads, to which a conductive pipe compound (T & B Kopr-Shield or equal) has been applied, and butted in couplings.
- B. Underground runs outside building footprint shall have minimum of 24" cover, filled and tamped in 6" layers. An 8" wide, yellow warning tape reading "Danger Electrical Conduits" shall be provided for each underground conduit run. Bury maximum 12" below finished grade entire length of conduit run.
- C. Support conduit as required by code.
- D. All raceways shall be concealed unless specifically shown or approved otherwise.
- E. Make all cuts square. Remove any burrs by reaming.
- F. EMT shall be attached to boxes or enclosures with steel compression couplings and fittings only.
- G. EMT and IMC shall be attached to boxes or enclosures with flanged connector and locknuts with insulating bushing.
- H. All hard raceways both exposed and concealed shall be run at right angles, either parallel or perpendicular to building lines. Flexible conduit may be run point-to-point only in concealed locations, but must be installed in a neat, workmanship-like manner, that is easily traced. Random, sagging runs shall not be allowed.

3.02 SLEEVES AND PENETRATIONS

- A. Electrical Contractor shall provide sleeves and openings for raceways penetrating exterior walls, fire rated partitions, and roofs. Provisions for all such penetrations shall be as approved by the Architect/Engineer.
- B. For any raceway passing through an exterior wall, above or below grade, provide appropriate sleeve and water proofing. Fill space between conduit and sleeve with appropriate compound (eg. lead and oakum) and then apply caulking compound - flush finished surfaces.

Manufacturer's name, labels, product identification, and batch numbers.

- B. FRP Reinforcement shall be stored in a cool dry area away from direct sunlight, flame, moisture, or other hazards.
- C. Store primer, saturant and protective coating under conditions as recommended by the manufacturer in a cool dry place out of direct sunlight. Products that have exceeded their shelf life shall not be used.
- D. The contractor is required to confirm that all materials used in accordance with this Section conform to local, state, and federal environmental and worker's safety laws and regulations.
- E. During operations, the contractor shall maintain barricades.
- F. The contractor shall properly dispose of empty containers in accordance with local regulations.
- G. Submittals: Shop Drawings for blocking as required.

PART 2 – PRODUCTS

2.1 FRP REINFORCEMENT FABRIC AND/OR LAMINATE

- A. FRP Pre-cured strip shall be high strength, high modulus, unidirectional carbon fiber reinforced polymer (CFRP).
 - 1. FRP pre-cured strip shall be of the type, size, layer and location as indicated on the Drawings.
 - 2. FRP pre-cured strip shall meet the following minimum requirements:

Property	Requirement	ASTM Test Method
Laminate Tensile Strength, In primary fiber direction	406,000 psi (2,800 MPa)	D3039
Laminate Tensile Modulus, In primary fiber direction	23.2x10 ⁶ psi (160,000 MPa)	D3039
Laminate Elongation at break	1.69 %	D3039
Laminate Thickness	0.047 inch (1.2 mm)	
Fiber Volume, minimum	68%	D2563

- 3. Approved manufacturers and/or products are:
 - a. Sika CarboDur, Sika Corp., Lyndhurst, NJ.
 - b. FYFE, An Aegion Company, Sand Diego, CA
 - c. Alternate products must be submitted **and** approved by the Engineer a minimum of two weeks prior to the bid date.

2.2 EPOXY REPAIR MORTAR

- A. Repair mortar shall be 100% solids, non-sag paste epoxy.
- B. Approved manufactueres and/or products are:
 - 1. Sikadur 30, Sika Corp., Lyndhurst, NJ
 - 2. Sikadur 31, Sika Corp., Lyndhurst, NJ.
 - 3. FYFE, An Aegion Company, Sand Diego, CA
 - 4. Alternate products must be submitted **and** approved by the Engineer a minimum of two weeks prior to the bid date.

PART 3 – EXECUTION

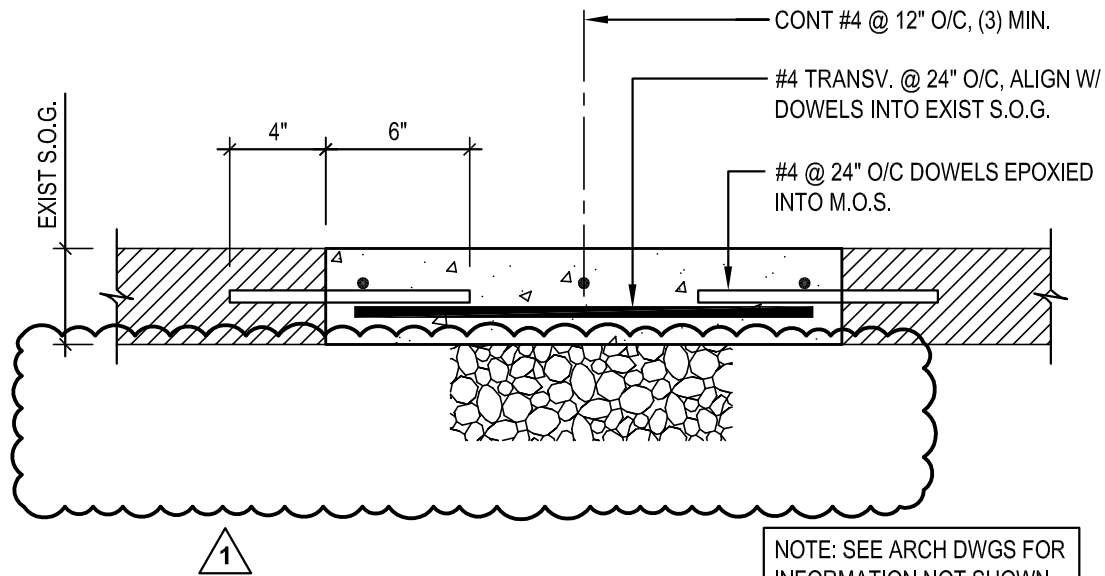
3.1 GENERAL

- A. Inspect surfaces to receive the work and report immediatly in writing to the Engineer as required in the General Conditions and deficiencies in the surface that render if unsuitable for proper execution of this work.
- B. Protect vehicles, concrete, and other items surrounding work area from dust or damage due to Work of this Section.

3.2 SURFACE PREPARATION

- A. All concrete surfaces shall be dry and free of surface moisture and frost, and tested by the Contractor to evaluate moisture transmission in accordance with ASTM D4263, “Indicating Moisture in Concrete by the Plastic Sheet Method.”
- B. All concrete surfaces shall be sound. Remove deteriorated concrete, dust, laitance, grease, paint, curing compounds, waxes, impregnations, foreign particles, and other bond inhibiting materials from the surface by blast cleaning or equivalent mechanical means.
- C. All concrete surfaces shall be air blasted and vacuumed clean to a dust free condition.
- D. Concrete surface irregularities less than one inch shall be ground and smoothed and/or filled with an approved repair mortar (e.g., Sikadur 30) with the addition of one part oven dried sand to make an epoxy mortar. Surface irregularities shall be limited to less than 0.04 inches (1 mm). Surface irregularities greater than one inch shall be repaired using an approved cementitious repair mortar (e.g. SikaTop 123).
- E. External concrete corners shall be rounded to at least a 1/2 inch radius when perpendicular to fiber orientation and internal corners shall be smoothed by troweling epoxy mortar into the corners.
- F. The adhesive strength of the concrete shall be verified after preparation by random pull-off testing (ACI 503R) at the direction of the Engineer. Minimum tensile strength is 200 psi with concrete substrate failure, or as approved by the Engineer.

3.3 MIXING PRIMER AND SATURANT



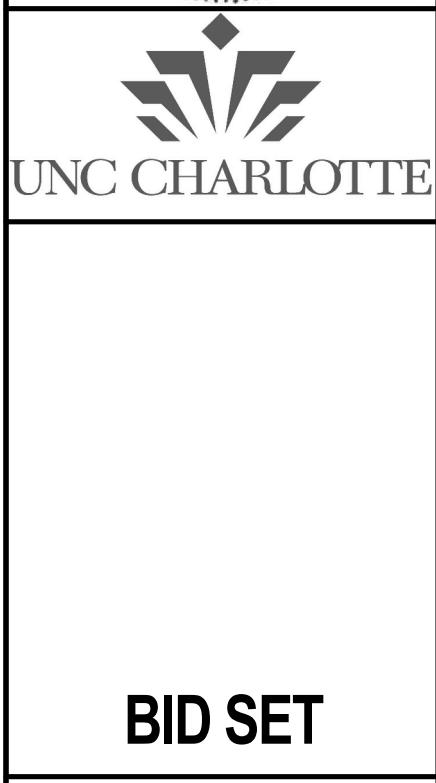
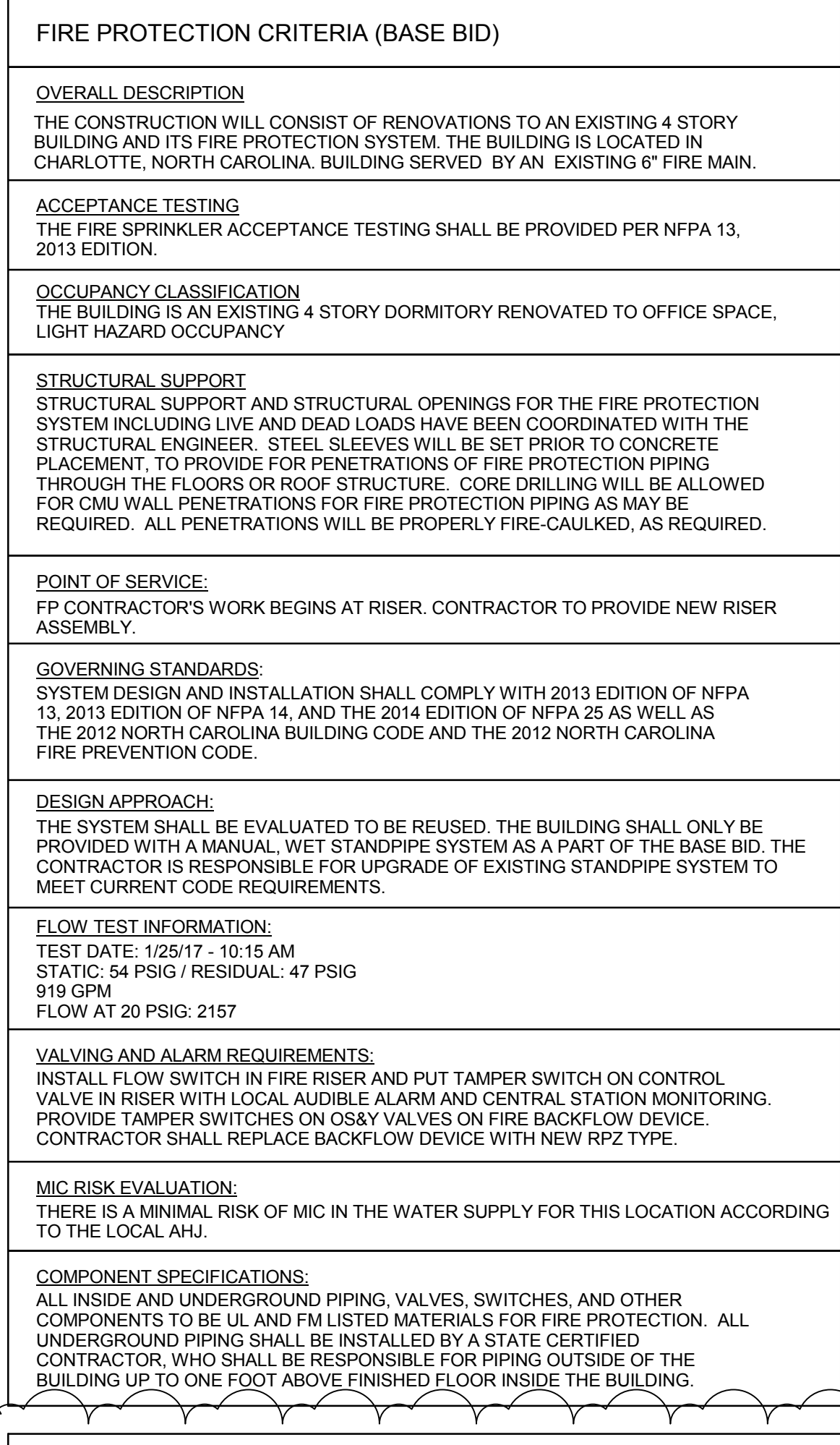
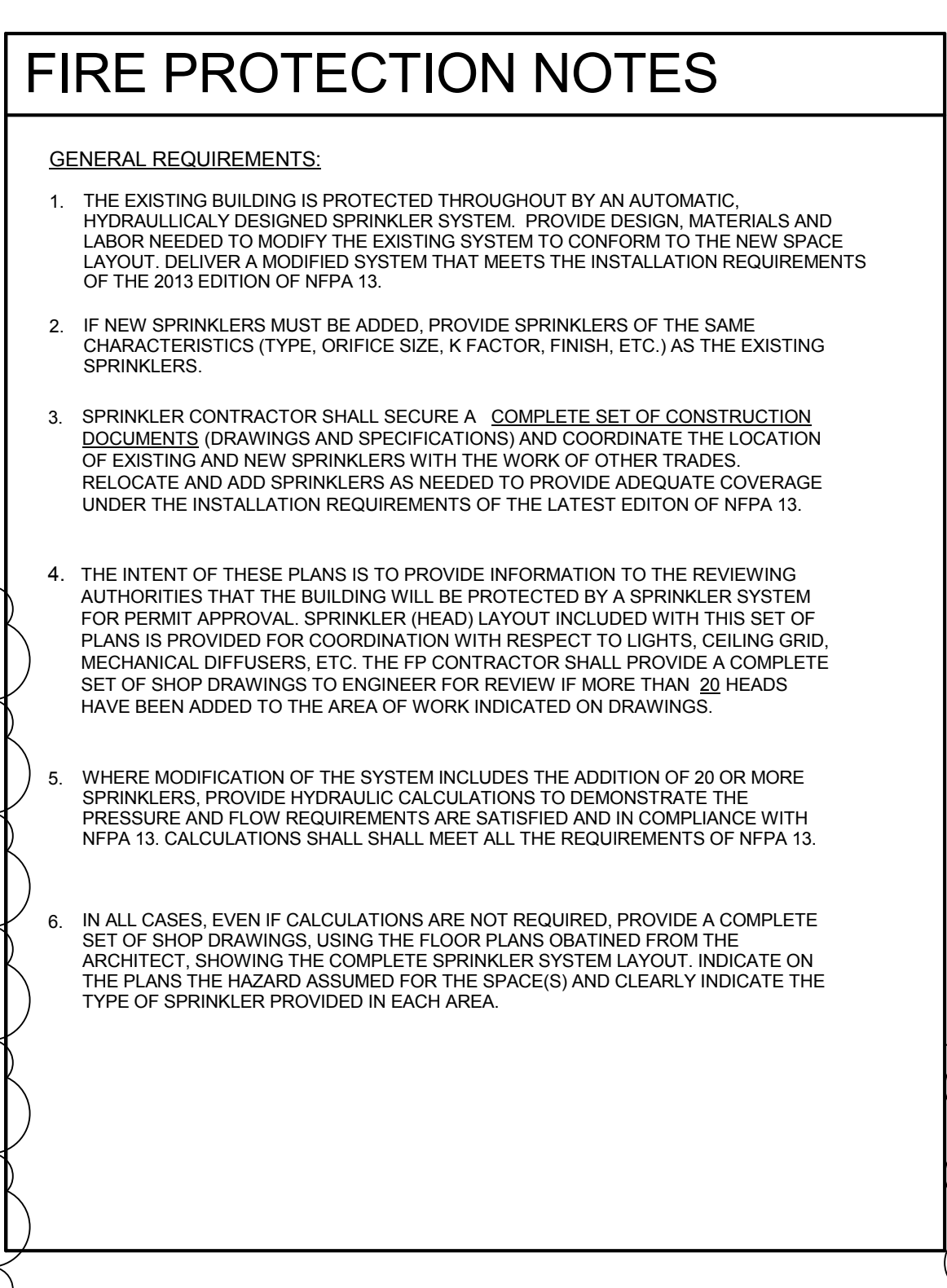
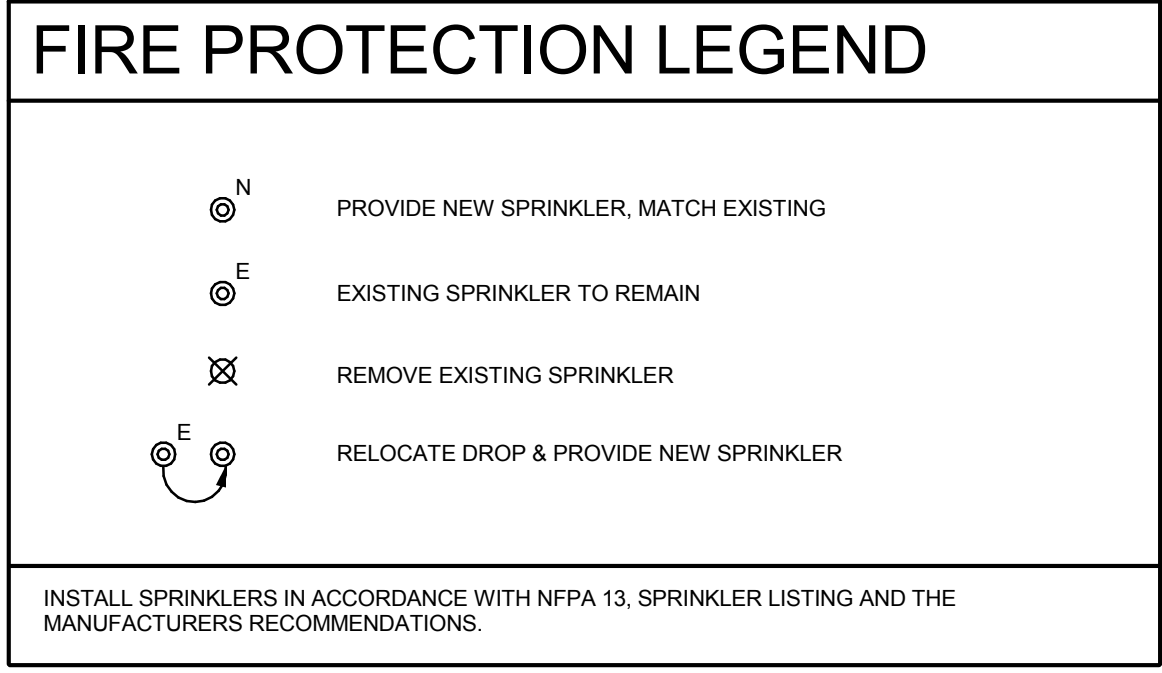
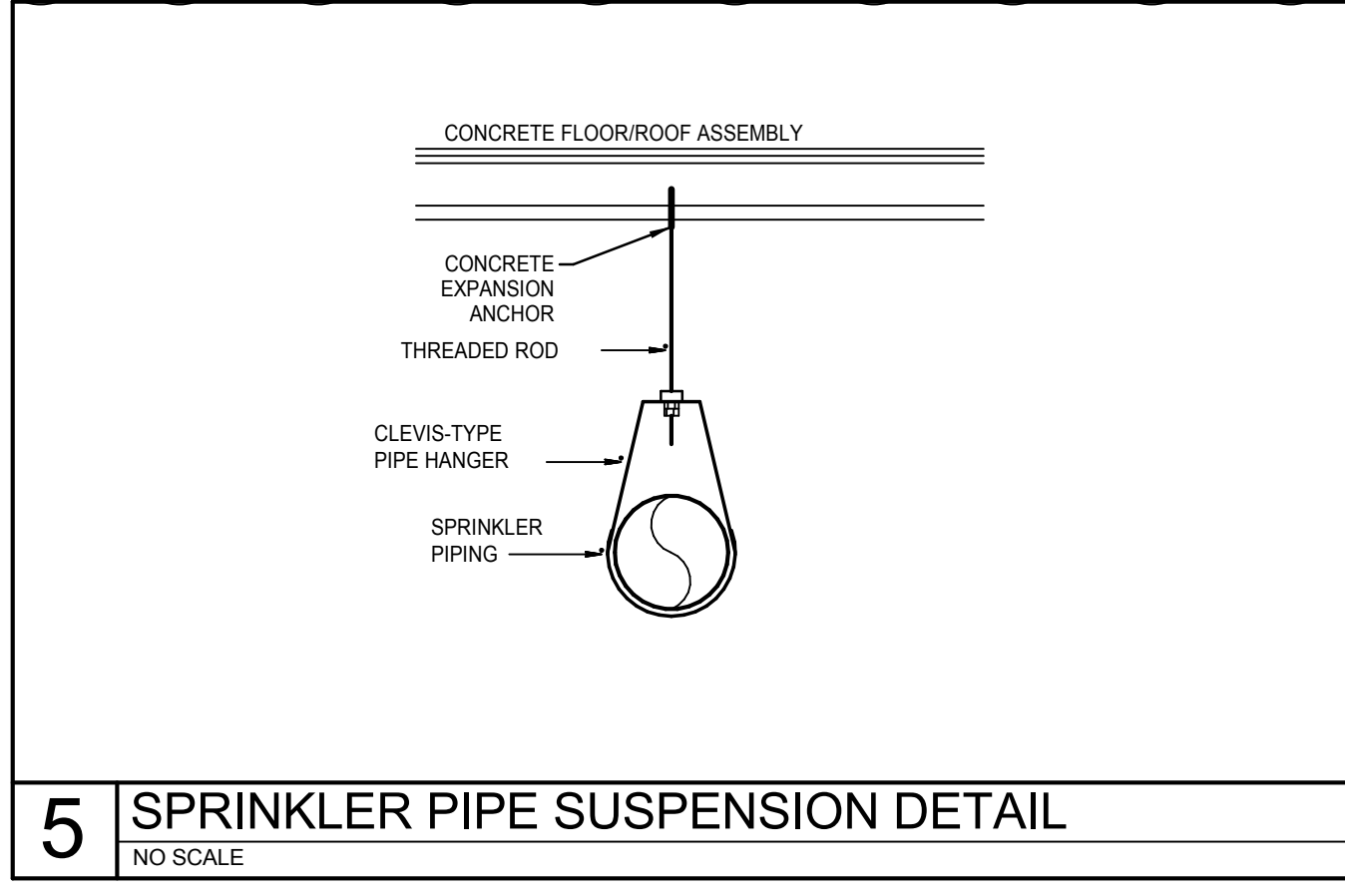
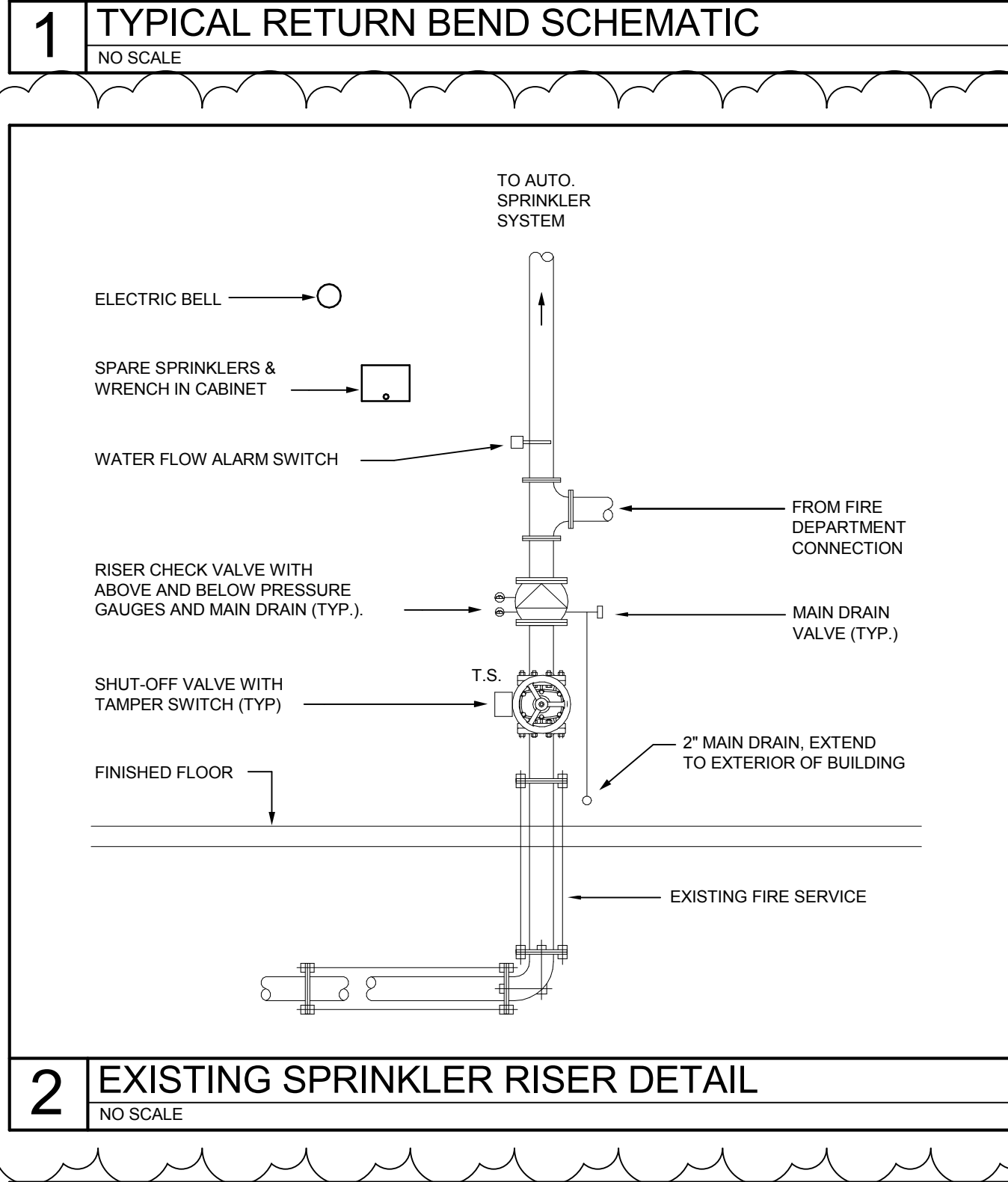
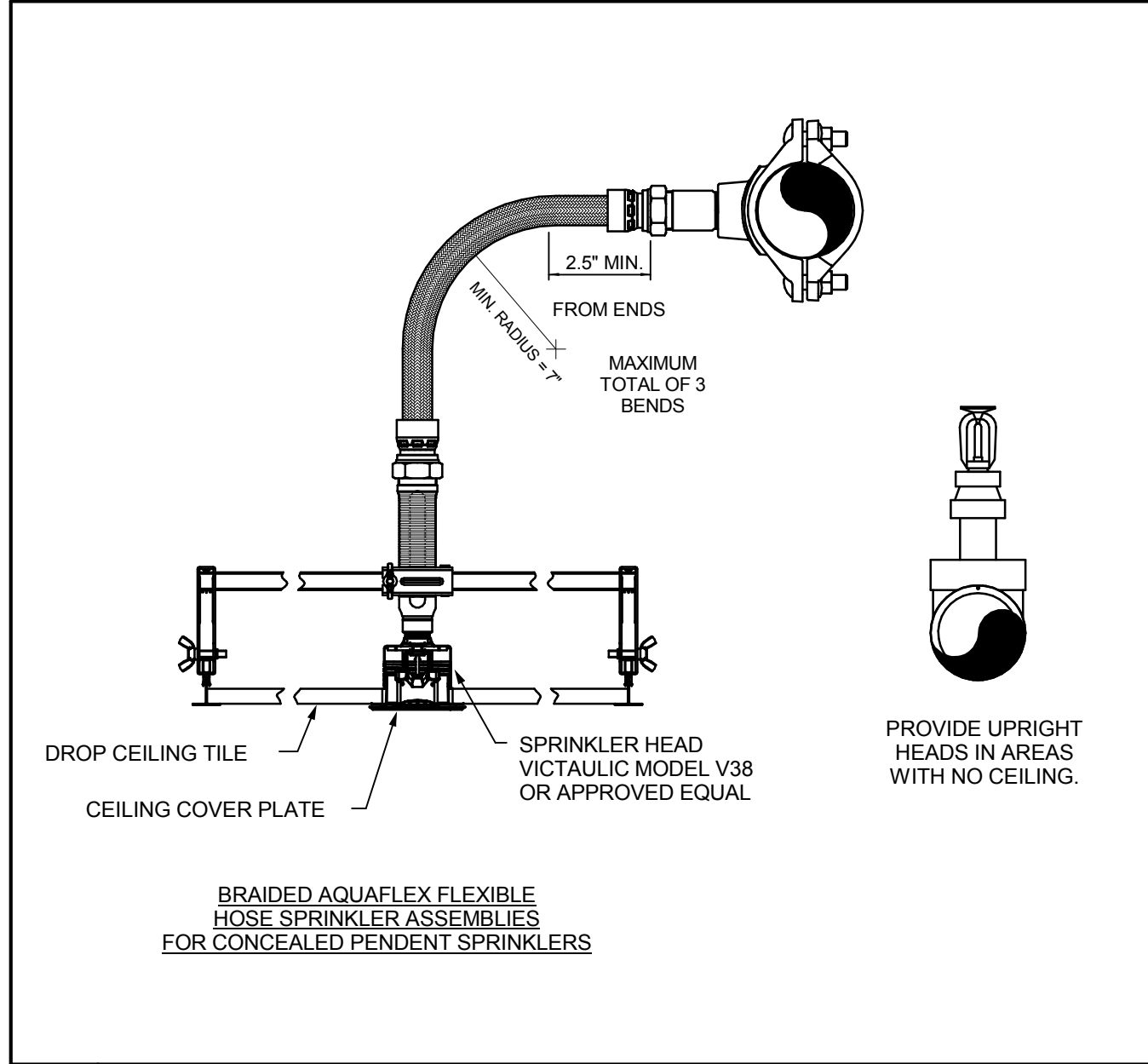
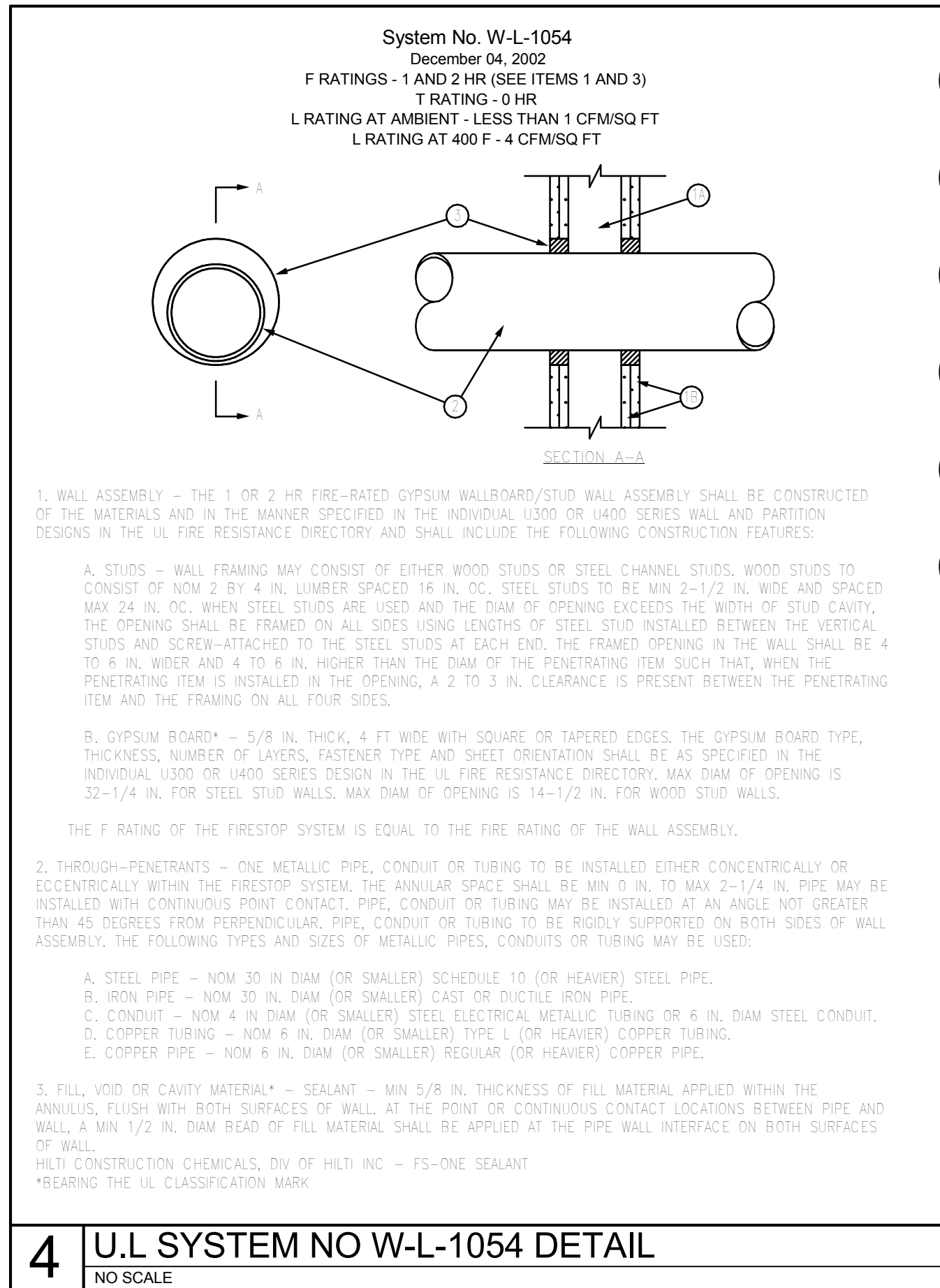
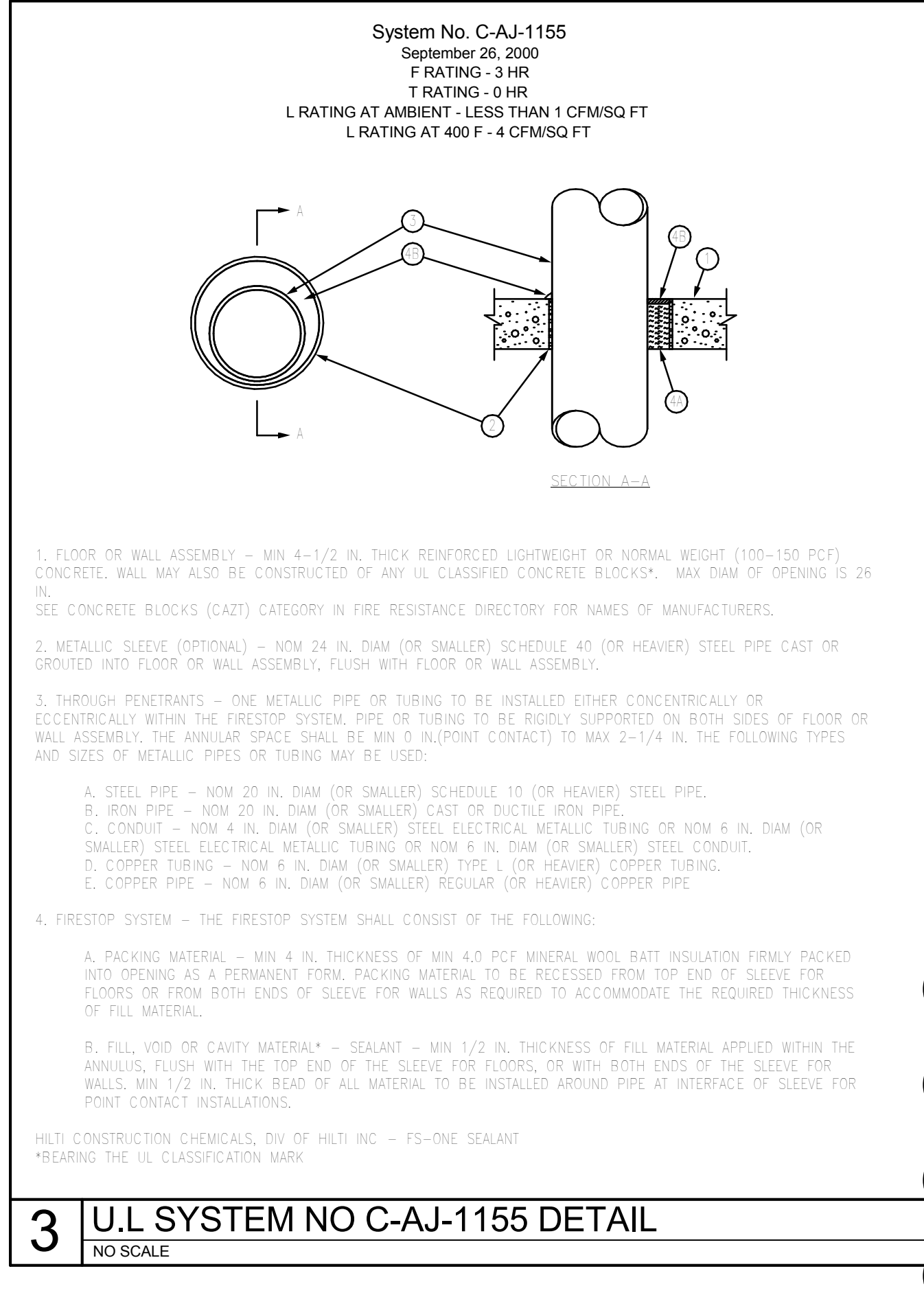
9
S801

**TYPICAL DETAIL
EXISTING S.O.G. REPAIR**

1 1/2" = 1'-0"
Dwg.# 160348-S7052.DWG

PURPOSE OF DRAWING: ADDENDUM #1 REVISIONS

BULLETIN DRAWING TITLE:	PROJECT NUMBER SCO ID#16-12735
_____	DRAWING NUMBER SBD-01
_____	RE: S801
_____	_____



BID SET

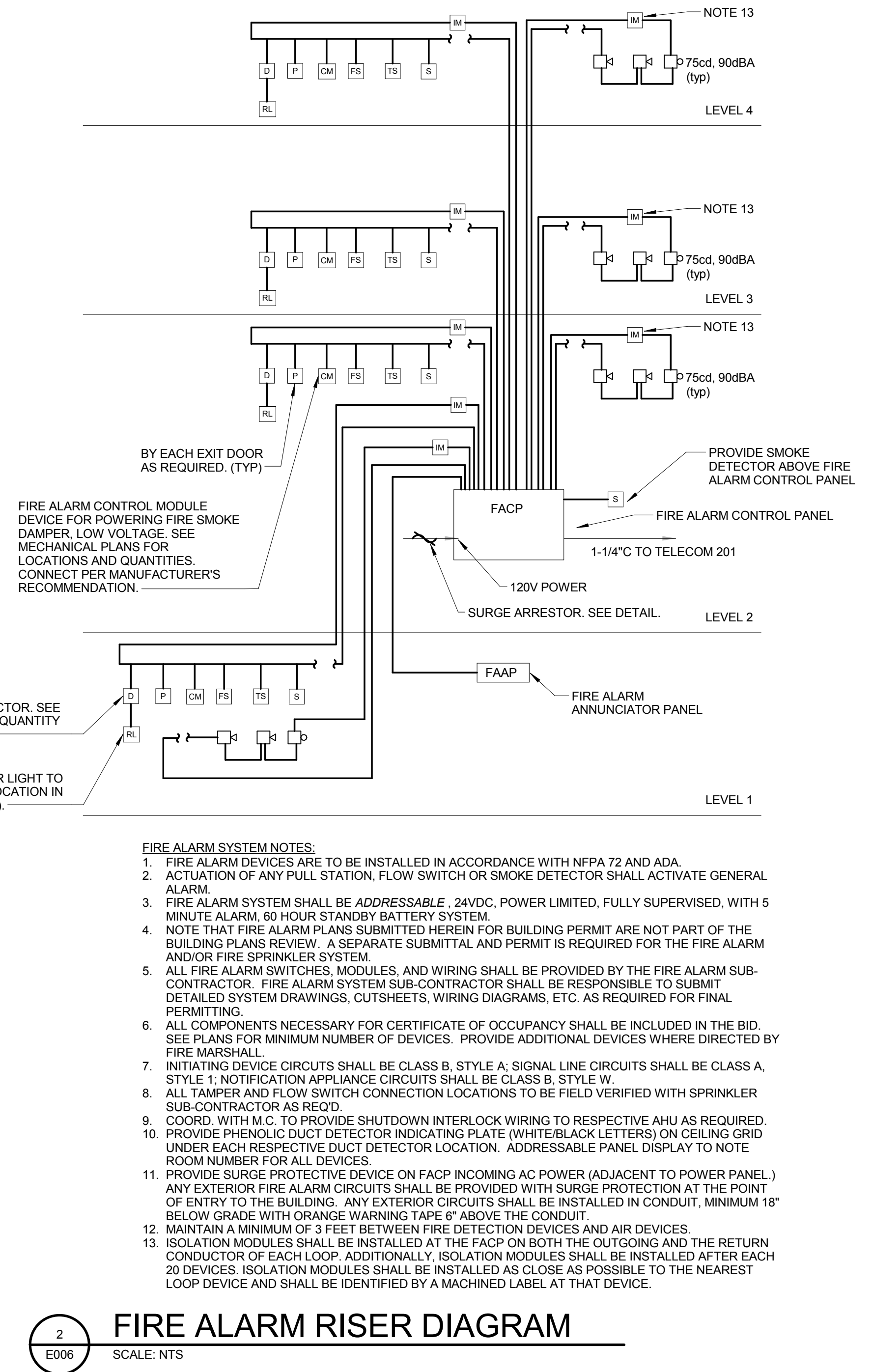
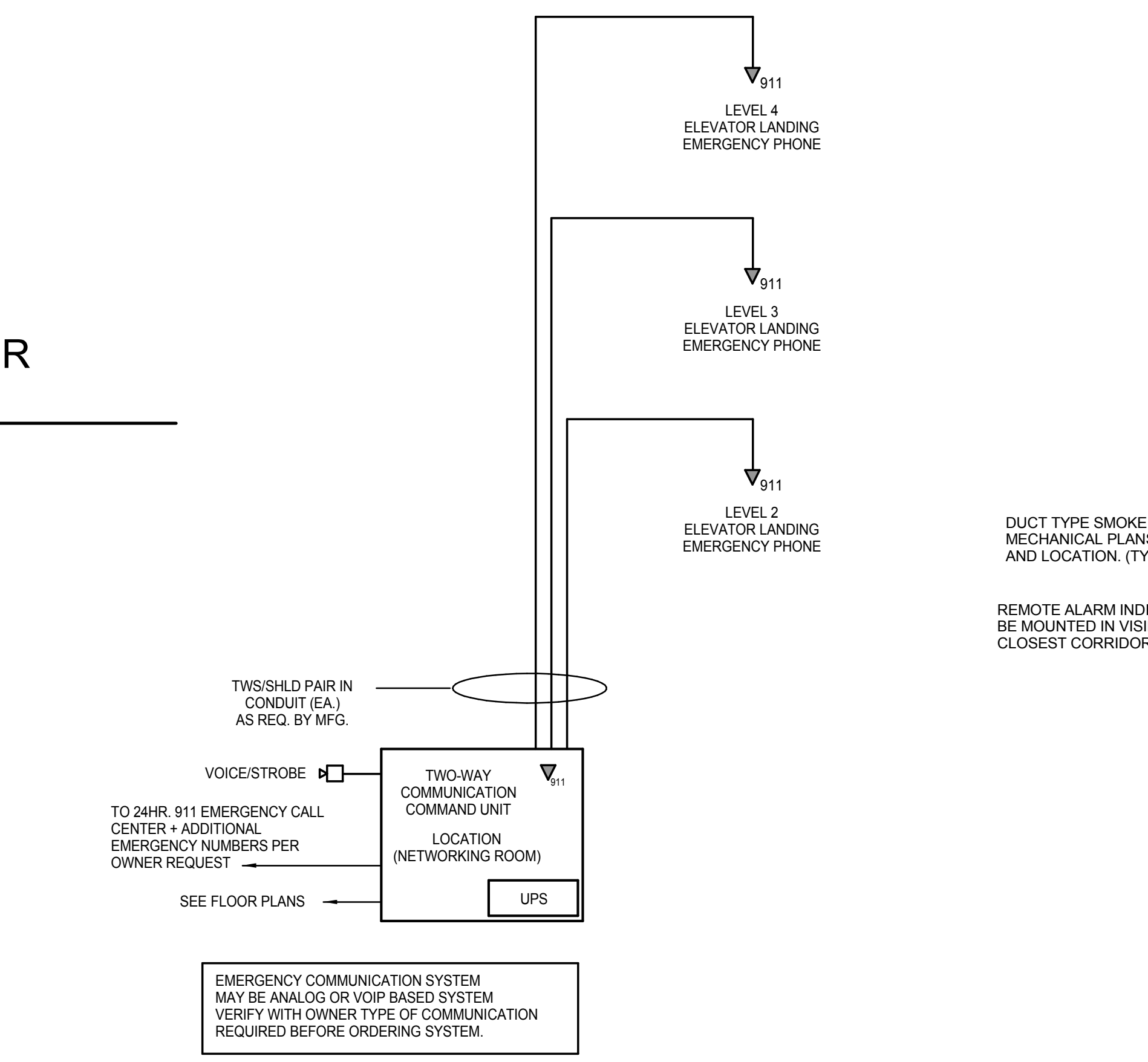
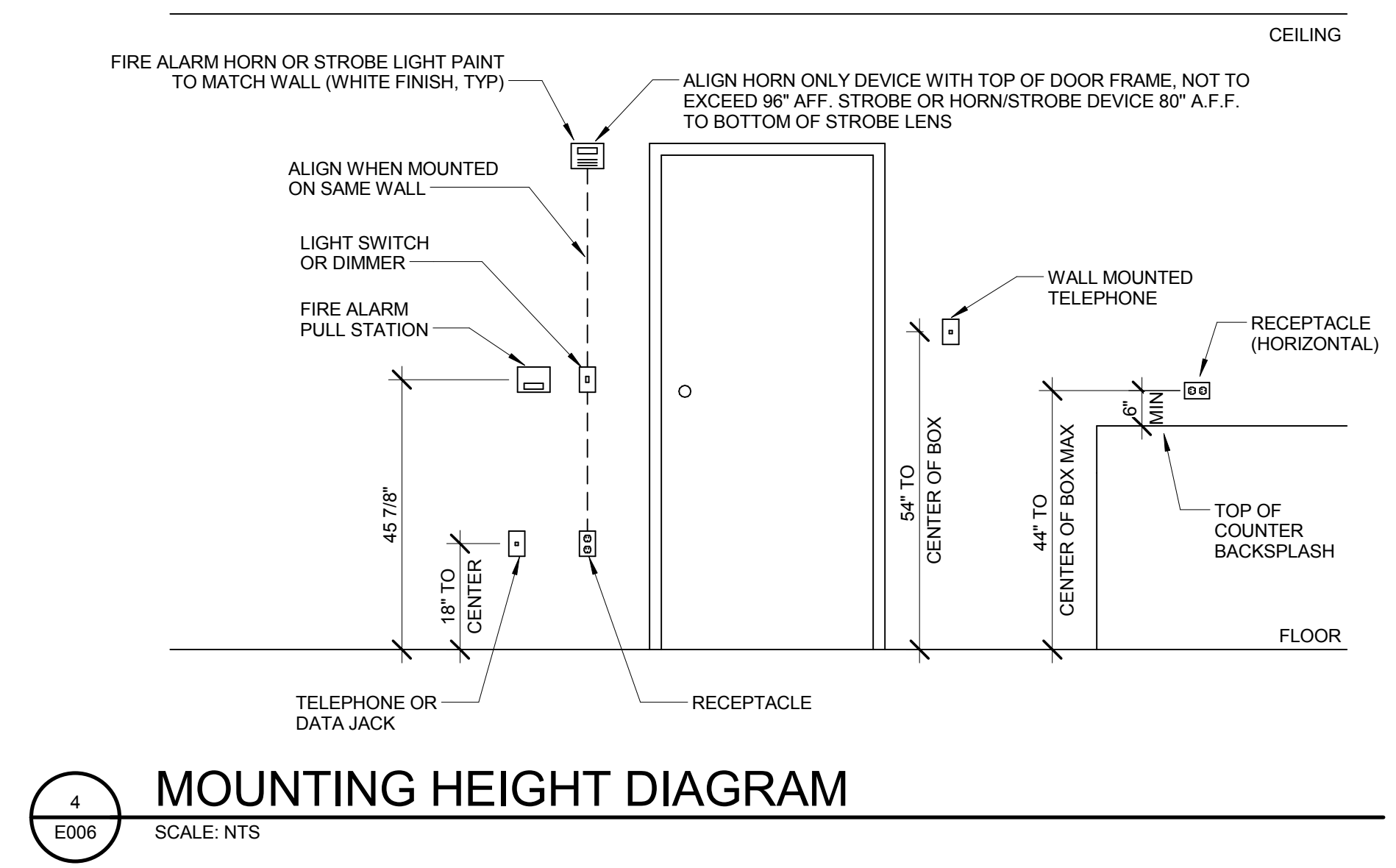
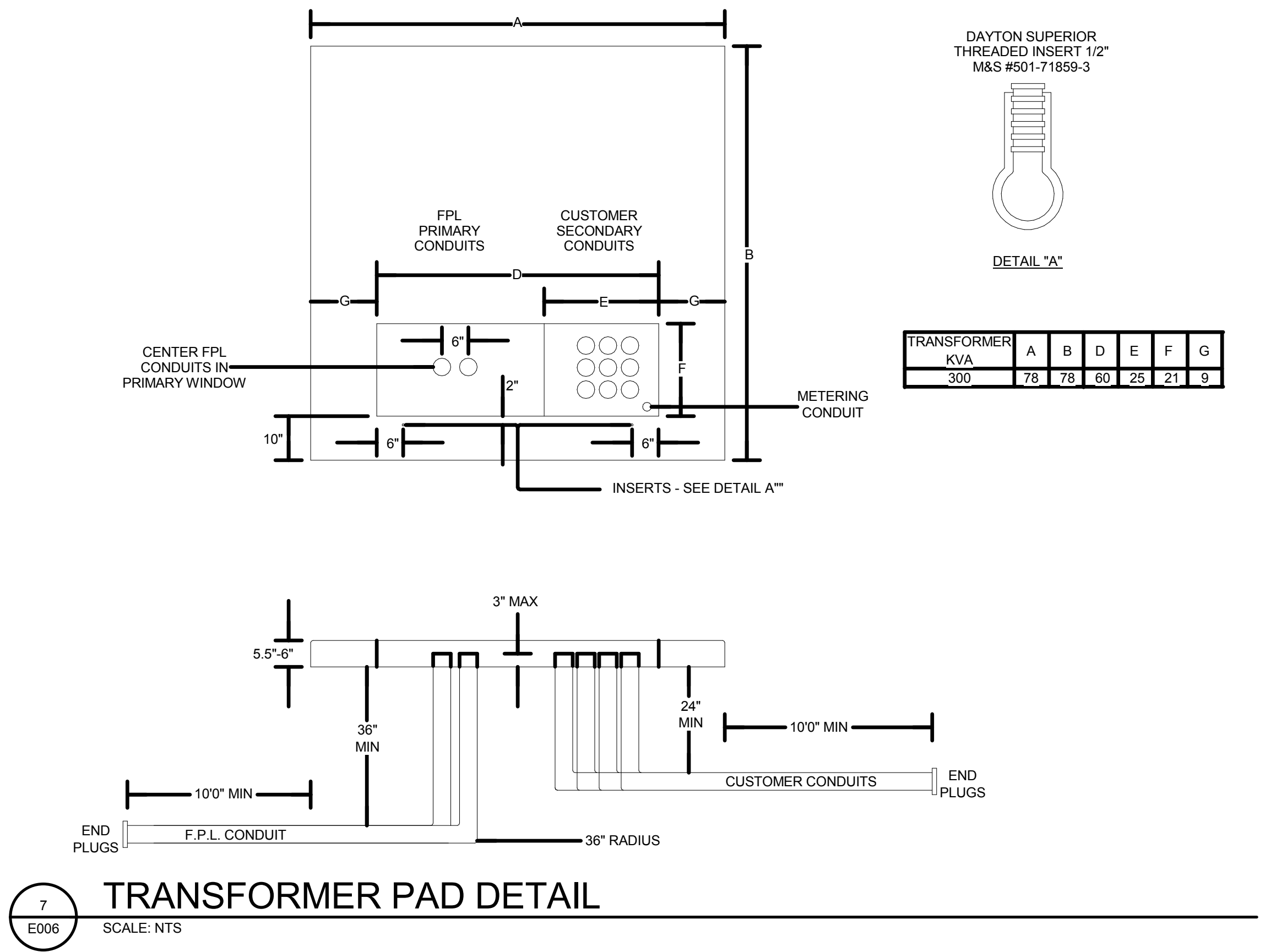
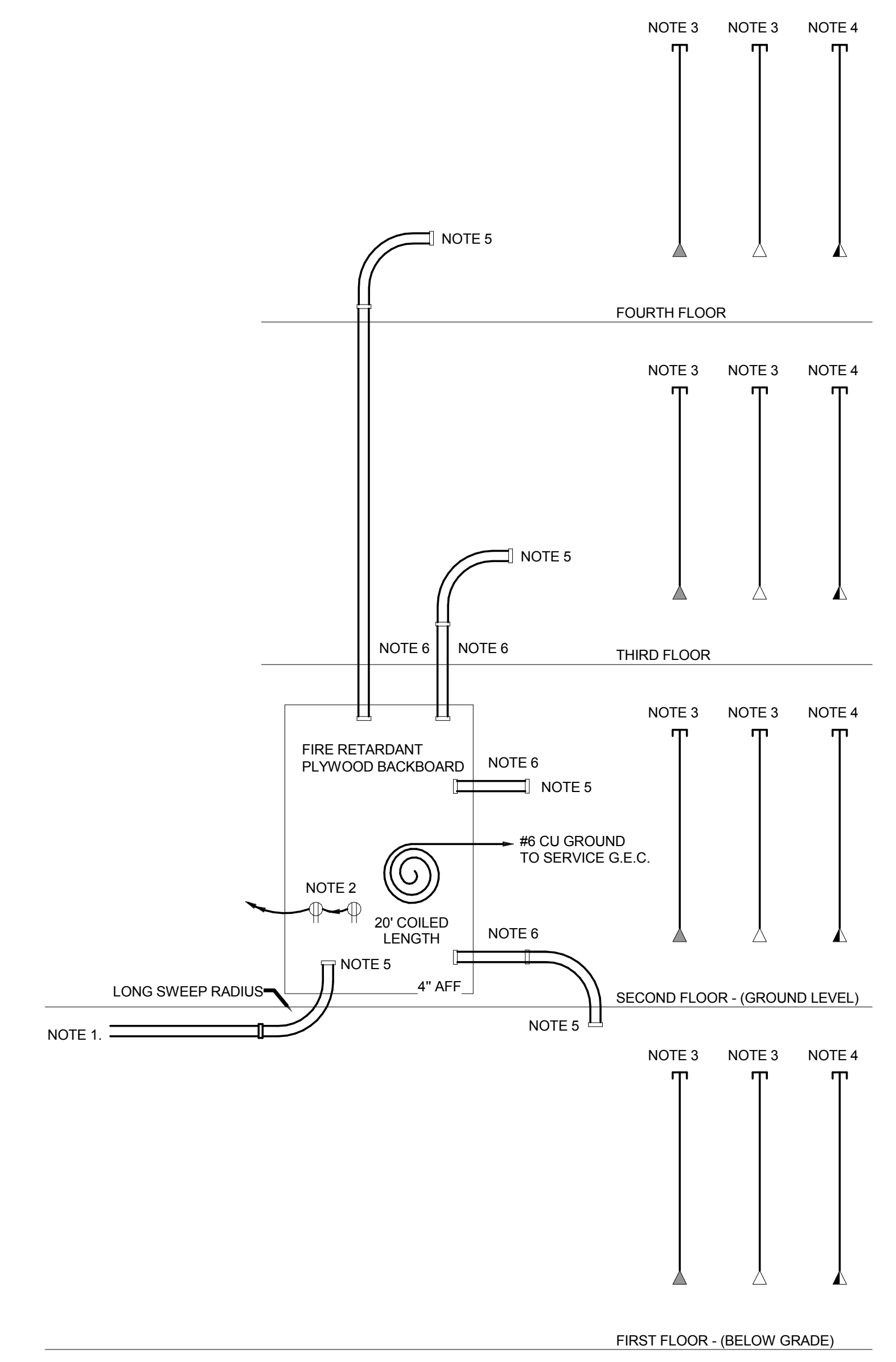
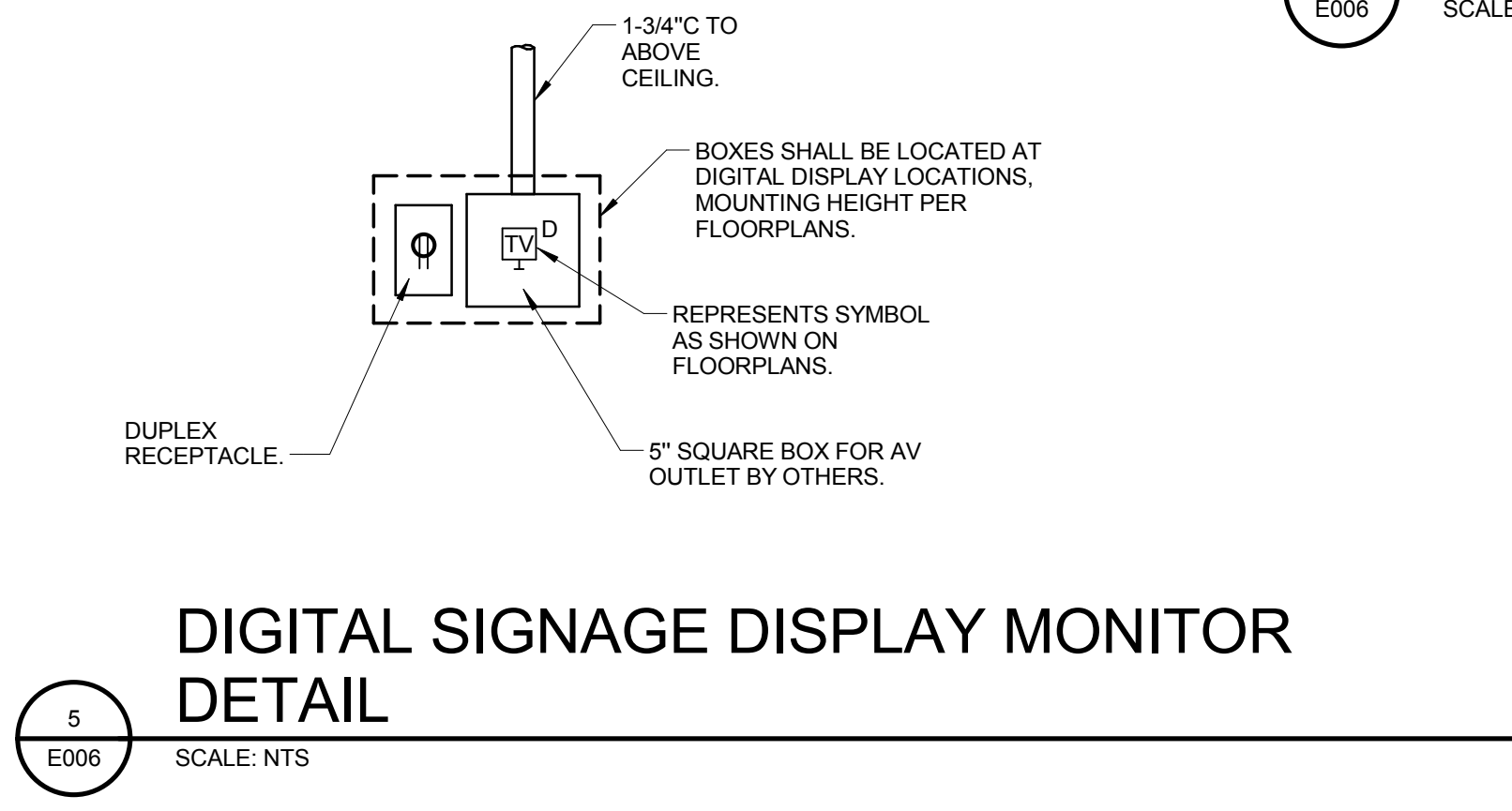
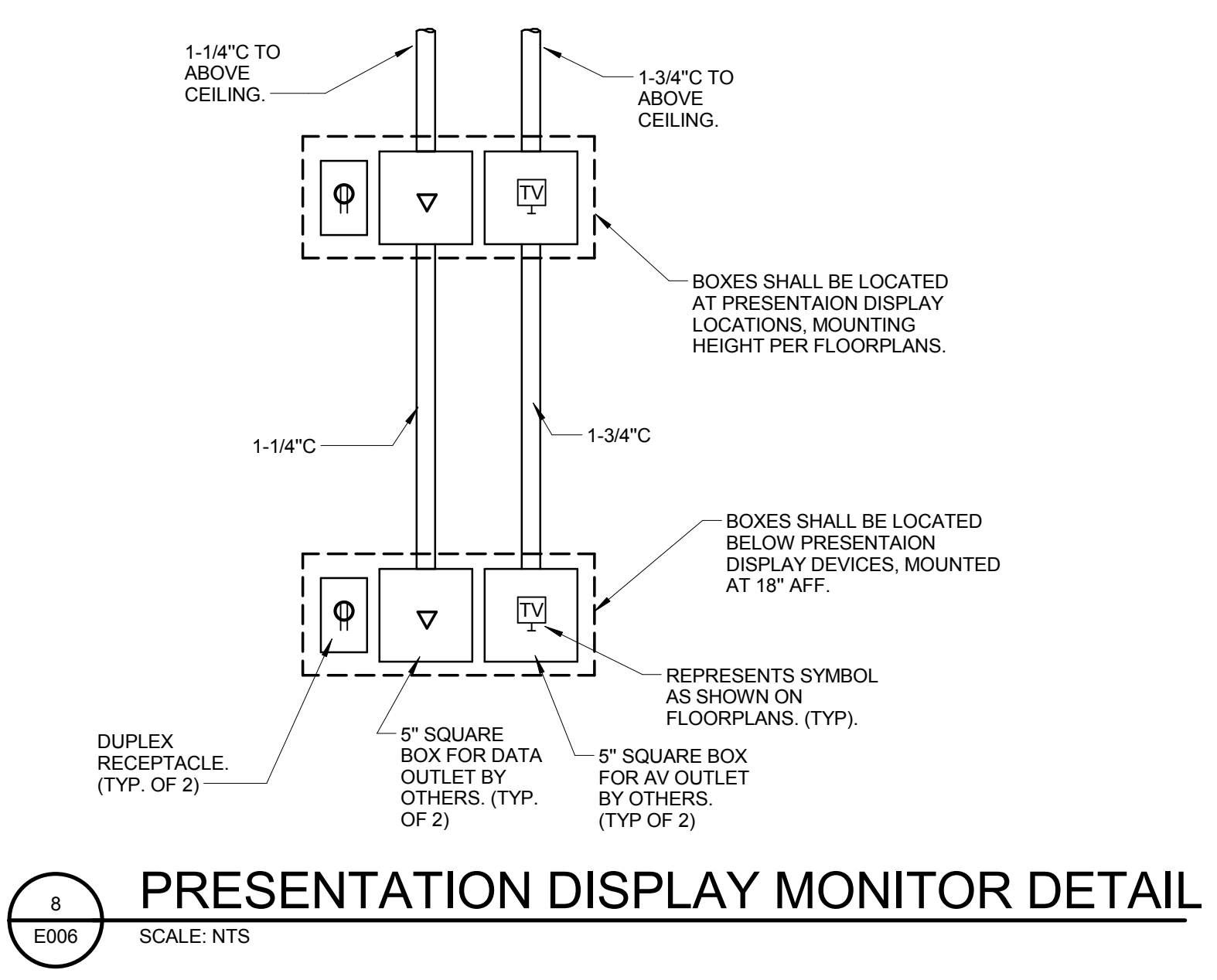
ISSUE DATE: FEBRUARY 28, 2018

SCO ID# 16-12735-02A
ITEM: 303

SYCAMORE HALL RENOVATION
UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
9201 UNIVERSITY CITY BOULEVARD, CHARLOTTE, NC 28223

PROJECT NUMBER 1610
SHEET TITLE FIRE PROTECTION CRITERIA
SHEET NUMBER
FP001





FIRE ALARM SYSTEM MATRIX

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS	FIRE ALARM SYSTEM BLDG RESPONSE													CENTRAL COMMUNICATOR		
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE ADDRESSABLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE ADDRESSABLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE ADDRESSABLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	SEND FIRE ALARM SIGNAL TO CENTRAL COMM	SEND SUPERVISORY SIGNAL TO CENTRAL COMM	RELEASE OF SHUTDOWN	RELEASE OF EVACUATION TO OPER HOLDERS	SHOW CHANGE OF STATUS ON ANNUNCIATOR	SEND FIRE ALARM SIGNAL TO CENTRAL COMM	SEND SUPERVISORY SIGNAL TO CENTRAL COMM	INITIATE ELEVATOR SIGNAL TO CENTRAL STATION	INITIATE ELEVATOR POWER SHUNT TRIP
MANUAL FIRE ALARM PULL STATION	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
BUILDING SMOKE DETECTOR	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
BUILDING HEAT DETECTOR	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
BUILDING DUCT DETECTOR	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
SPRINKLER WATERFLOW	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
SPRINKLER TAMPER	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
FIRE ALARM AC POWER FAILURE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
FIRE ALARM SYSTEM LOW BATTERY	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
OPEN CIRCUIT	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
GROUND FAULT	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
NOTIFICATION APPLIANCE CIRCUIT SHORT	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
AHU SHUTDOWN DEFEAT SWITCH	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
SMOKE DETECTOR AT ELEVATOR LOBBIES, SHAFT OR MACHINE SPACE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
HEAT DETECTOR AT ELEVATOR SHAFT OR MACHINE SPACE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

FIRE ALARM SYSTEM MATRIX NOTES:
1. COORDINATE SYSTEM RESPONSE TO DUCT SMOKE DETECTORS WITH OWNER.
2. COORDINATE WITH FIRE SPRINKLER DESIGNER TO INCLUDE LOW TEMPERATURE TROUBLE INDICATION IN EXISTING FIRE SPRINKLER HOT BOX AS REQUIRED.
3. COORDINATE SEQUENCE OF OPERATIONS WITH OWNER AND SYSTEM MANUFACTURER.



FINISH SCHEDULE - BASE BID							
ROOM		FLOOR	BASE	WALL	CEILING	WINDOW TREATMENT	REMARKS
NUMBER	NAME						
FIRST FLOOR							
100	LOBBY	LVT-1, LVT-2	RB-1	P-1, P-3	EXP, GB-1	-	
100A	VENDING	SC-1	RB-1	P-1	EXP	-	
100B	ELEV. CONTROL	SC-1	RB-1	P-1	EXP	-	
101	STORAGE	LVT-1	RB-1	P-1	EXP	-	
102	ELECT.	SC-1	RB-1	P-1	EXP	-	
102B	MAILROOM	LVT-2	RB-1	P-1	GB-1	-	
103	TOILET	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
104	CORRIDOR	LVT-1, LVT-2	RB-1	P-1, P-5	EXP	-	
105	BREAK	LVT-1, LVT-2, LVT-3	RB-1	P-1, P-4	EXP, GB-1	-	
106	TIMS OFFICE	CPT-1	RB-1	P-1	EXP	BLE	
107	MECH.	SC-1	RB-1	P-1	EXP	-	
108	CONFERENCE ROOM	CPT-1	RB-1	P-1	EXP	BLE	
109	CHAMP OFFICE	CPT-1	RB-1	P-1, P-5	EXP	BLE	
110B	DATA OFFICE	CPT-1	RB-1	P-1	EXP	BLE	
E1	ELEVATOR	-	-	-	-	-	FINISH REMARK #2
SB.1	EXISTING STAIR	EXIST	EXIST	P-1	EXIST	-	FINISH REMARK #3
SECOND FLOOR							
200	CORRIDOR	LVT-1, LVT-2	RB-1	P-1, P-3, P-4, P-5	EXP, GB-1	BLE	
200E	MAIN ELECTRICAL	SC-1	RB-1	P-1	EXP	-	
200M	MAIN MECHANICAL	SC-1	RB-1	P-1	EXP	-	
201	TELECOM	SC-1	RB-1	P-1	EXP	-	
202	CORRIDOR	CPT-1	RB-1	P-1, P-3, P-4, P-5	EXP	BLE	
202A	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
202B.1	WS	CPT-1	RB-1	P-1	EXP	-	
202B.2	WS	CPT-1	RB-1	P-1	EXP	-	
202B.3	WS	CPT-1	RB-1	P-1	EXP	-	
202B.4	WS	CPT-1	RB-1	P-1	EXP	-	
202B.5	WS	CPT-1	RB-1	P-1	EXP	BLE	
202B.6	WS	CPT-1	RB-1	P-1	EXP	BLE	
202C	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
202D	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
202E.1	WS	CPT-1	RB-1	P-1	EXP	-	
202E.2	WS	CPT-1	RB-1	P-1	EXP	-	
202E.3	WS	CPT-1	RB-1	P-1	EXP	BLE	
202F	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
202G	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
202H	WORKROOM	SC-1	RB-1	P-1, P-4	EXP	-	
202I	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
202J	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
203	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
204	ELECT.	SC-1	RB-1	P-1	EXP	-	
205	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
206	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
207	WS	CPT-1	RB-1	P-1	EXP	-	
208	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
209	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
210	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
211	STORAGE	LVT-1	RB-1	P-1	EXP	-	
212	MEN	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
213	JANITOR	SC-1	RB-1	P-1, ST	EXP	-	
214	WOMEN	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
215	CONF. ROOM	CPT-1	RB-1	P-1, P-3	EXP	BLE	
216	ELECT.	SC-1	RB-1	P-1	EXP	-	
GS	CRAWLSPACE	-	-	-	-	-	
E2	ELEVATOR	-	-	-	-	-	FINISH REMARK #2
SA.2	EXISTING STAIR	EXIST	EXIST	P-1	EXIST	-	FINISH REMARK #3
SB.2	EXISTING STAIR	EXIST	EXIST	P-1	EXIST	-	FINISH REMARK #3
THIRD FLOOR							
300	CORRIDOR	LVT-1, LVT-2, LVT-3	RB-1	P-1, P-4, P-5	EXP	BLE	
300A	VESTIBULE	FT-1	TB-1	P-1	GB-1	-	
301	LOBBY	CPT-1	RB-1	P-1	GB-1	BLE	
302	COMMONS	CPT-1	RB-1	P-1	EXP, AC-1, AC-G3, AC-G4, AC-G5, AC-Y3, AC-Y4	-	
303	RECEPTION	CPT-1	RB-1	P-1, P-4	GB-1	BLE	
304	ELECT.	SC-1	RB-1	P-1	EXP	-	
305	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
306	CONF. ROOM	CPT-1	RB-1	P-1, WW-1	EXP, WC-1	-	
307	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
308	ELEC.	SC-1	RB-1	P-1	EXP	-	
309	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310	CORRIDOR	CPT-1	RB-1	P-1	EXP	BLE	
310A	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310B.1	WS	CPT-1	RB-1	P-1	EXP	-	
310B.2	WS	CPT-1	RB-1	P-1	EXP	-	
310B.3	WS	CPT-1	RB-1	P-1	EXP	-	
310B.4	WS	CPT-1	RB-1	P-1	EXP	BLE	
310B.5	WS	CPT-1	RB-1	P-1	EXP	BLE	
310B.6	WS	CPT-1	RB-1	P-1	EXP	BLE	
310C	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310D	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310E	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310F	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310G	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
310H	WORKROOM	CPT-1	RB-1	P-1	EXP	-	
310I	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
311	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
312	MEN	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
313	JANITOR	SC-1	RB-1	P-1	EXP	-	
314	WOMEN	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
315	STORAGE	LVT-2	RB-1	P-1	EXP	-	
317	CONF. ROOM	CPT-1	RB-1	P-1, P-2	EXP	BLE	
E3	ELEVATOR	-	-	-	-	-	FINISH REMARK #2
SA.3	STAIR	EXIST	EXIST	P-1	EXIST	-	FINISH REMARK #3
SB.3	STAIR	EXIST	EXIST	P-1	EXIST	-	FINISH REMARK #3
FOURTH FLOOR							
404	ELECT.	SC-1	RB-1	P-1	EXP	-	
408	JAN.	SC-1	RB-1	P-1	EXP	-	
408A	MECH.	-	-	-	-	-	
409	MEN	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
410	WOMEN	FT-1	TB-1	EP-1, WT-1, WT-2	GB-2	-	FINISH REMARK #1
E4	ELEVATOR	-	-	-	-	-	FINISH REMARK #2
SA.4	EXISTING STAIR	EXIST	EXIST	P-1, P-3	EXIST	-	FINISH REMARK #3
SB.4	EXISTING STAIR	EXIST	EXIST	P-1	EXIST	-	FINISH REMARK #3

FINISH SCHEDULE - ALTERNATE #6							
ROOM		FLOOR	BASE	WALL	CEILING	WINDOW TREATMENT	REMARKS
NUMBER	NAME						
FOURTH FLOOR							
400	CORRIDOR	LVT-1, LVT-2	RB-1	P-1, P-3, P-4, P-5	EXP	BLE	
401	CORRIDOR	CPT-1	RB-1	P-1, P-3	EXP	BLE	
401A.1	WS	CPT-1	RB-1	P-1	EXP	-	
401A.2	WS	CPT-1	RB-1	P-1	EXP	-	
401A.3	WS	CPT-1	RB-1	P-1	EXP	-	
401A.4	WS	CPT-1	RB-1	P-1	EXP	-	
401A.5	WS	CPT-1	RB-1	P-1	EXP	BLE	
401A.6	WS	CPT-1	RB-1	P-1	EXP	BLE	
401B.1	WS	CPT-1	RB-1	P-1	EXP	-	
401B.2	WS	CPT-1	RB-1	P-1	EXP	-	
401B.3	WS	CPT-1	RB-1	P-1	EXP	BLE	
401B.4	WS	CPT-1	RB-1	P-1	EXP	BLE	
401C.1	WS	CPT-1	RB-1	P-1	EXP	-	
401C.2	WS	CPT-1	RB-1	P-1	EXP	-	
401C.3	WS	CPT-1	RB-1	P-1	EXP	BLE	
401D	COLLABORATION	CPT-1	RB-1	P-1	EXP	BLE	
402	CORRIDOR	CPT-1	RB-1	P-1, P-4	EXP	-	
402.1	WS	CPT-1	RB-1	P-1	EXP	-	
402.2	WS	CPT-1	RB-1	P-1	EXP	-	
402.3	WS	CPT-1	RB-1	P-1	EXP	-	
402.4	WORK AREA	CPT-1	RB-1	P-1	EXP	-	
402A	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402B	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402C	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402D	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402E	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402F	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402G	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402H	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402I	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
402J	OFFICE	CPT-1	RB-1	P-1	EXP	-	
402K	STO.	CPT-1	RB-1	P-1	EXP	-	
403	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
405	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
406	OFFICE	CPT-1	RB-1	P-1, P-2	EXP	BLE	
407	WORKROOM	CPT-1	RB-1	P-1	EXP	-	
409	MEN	-	-	-	-	-	
410	WOMEN	-	-	-	-	-	
411	CONF. ROOM	CPT-1	RB-1	P-1, P-2	EXP	BLE	

FINISH DESCRIPTION	
FLOOR	
CPT-1	FIELD CARPET TILE (INSTALLED BRICK ASHLAR)
FT-1	FLOOR TILE - PORCELAIN (INSTALLED BRICK ASHLAR)
LVT-1	LUXURY VINYL TILE (ACCENT - DARK GRAY)
LVT-2	LUXURY VINYL TILE (ACCENT - GREEN)
LVT-3	LUXURY VINYL TILE (ACCENT - BLUE)
EX-1	SEALED CONCRETE - SEE DIV. 9
EXIST	EXISTING FLOOR FINISH TO REMAIN - NO NEW SCHEDULED FLOOR FINISH
-	-
BASE	
RB-1	RUBBER BASE
FT-1	PORCELAIN TILE COVE BASE
EXIST	EXISTING BASE FINISH TO REMAIN - NO NEW SCHEDULED BASE FINISH
-	-
WALL	
EP-1	EPOXY WALL PAINT (MATCH P-1)
P-1	WALL PAINT - OVERALL - WHITE
P-2	WALL PAINT (ACCENT - GRAY)
P-3	WALL PAINT (ACCENT - YELLOW)
P-4	WALL PAINT (ACCENT - GREEN)
P-5	WALL PAINT (ACCENT - BLUE)
P-6	GYP. BD. SUSPENDING CEILINGS, SOFFITS & BULKHEAD U.O.N.
P-7	METAL PAINT (ACCENT - DARK GRAY)
ST	STAINLESS STEEL BACKSPLASH
WW-1	WOOD WALL PANEL
WT-1	PORCELAIN TILE - FIELD
WT-2	PORCELAIN TILE - ACCENT
-	NO NEW SCHEDULED WALL FINISH
CEILING	
GB-1	PAINTED GMB TO BE PAINTED P-6
GB-2	PAINTED MOISTURE-RESISTANT GMB
WC-1	WOOD CEILING PANEL
EXP	EXPOSED STRUCTURE (BASE BID) (ALTERNATE #6)
EXIST	EXISTING CEILING FINISH TO REMAIN - NO NEW SCHEDULED CEILING FINISH
AC-1	HIGH MISC. 2' X 2' ACOUSTICAL PANEL
CEILING	
AC-G3	CEILING CLOUD W/AC-1 & GREEN TRIM SEE SPECIFICATION SECTION 095113
AC-G4	CEILING CLOUD W/AC-1 & GREEN TRIM SEE SPEC. SECTION 095113
AC-G5	CEILING CLOUD W/AC-1 & GREEN TRIM SEE SPEC. SECTION 095113
AC-Y3	CEILING CLOUD W/AC-1 & YELLOW TRIM SEE SPEC. SECTION 095113
AC-Y4	CEILING CLOUD W/AC-1 & YELLOW TRIM SEE SPEC. SECTION 095113
WINDOW TREATMENT	
BLE	HORIZONTAL BLINDS ON EXTERIOR WINDOWS - SEE SPEC SECTION 022113
-	NO SCHEDULED WINDOW TREATMENT

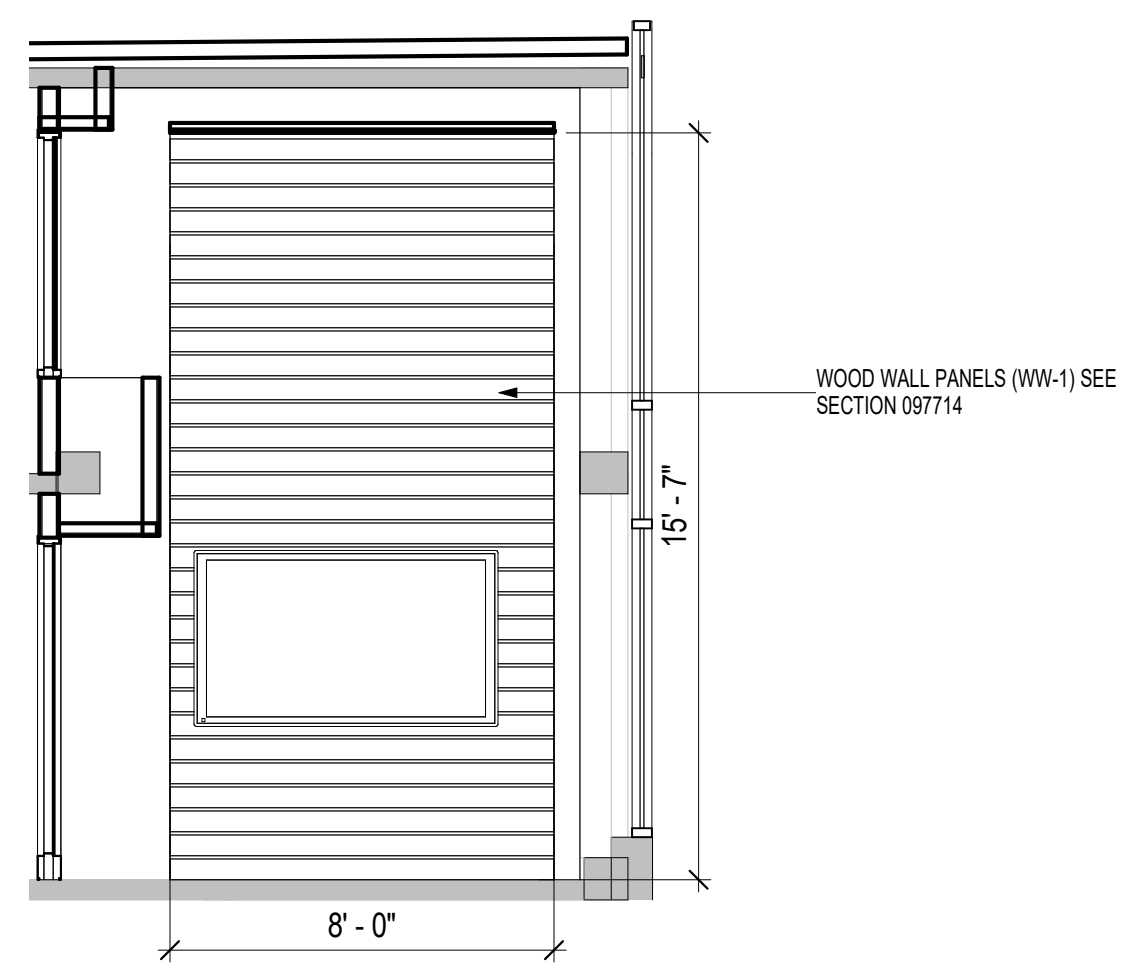
Morris Berg ARCHITECTS
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MORRIS BERG ARCHITECTS, INC.
CONTRACTOR
CHARLOTTE, NC

UNC CHARLOTTE

BID SET
ISSUE DATE: FEBRUARY 28, 2018

SCO ID# 16-12735-02A
CODE:41526 ITEM:303



WOOD WALL & CEILING AT LARGE CONFERENCE ROOM

