

Addendum No. 2

Project: Guilford County Law Enforcement Center Renovation
Event # 625

To: All Plan Holders

Addendum Date: July 19, 2018

This Addendum forms a part of and modifies the Bidding Documents dated June 26, 2018 as described below and consists of five (5) pages and the attachments described. Attachments are considered a part of this addendum and therefore a part of the Contract Documents.

SPECIFICATIONS

ITEM	SECTION	DESCRIPTION
1.	General	Pre-Bid Agenda, meeting minutes and sign-in sheet are attached.
2.	General	Meeting Minutes from the first Pre-Bid Conference on July 10, 2018 inadvertently omitted from Addendum No. 1 dated July 12, 2018 are included with this addendum.
3.	MWBE	Attached are instructions (Handed out at the Pre-bid) regarding Guilford County Diversity Program Bid Submittal MWBE Requirements for Affidavits to be attached to the bid. Reference Specification Section 00330 MBE Guidelines and Affidavits.
4.	General	Both Areas A and B (see attached sketch) are included as construction areas. These areas will be for the exclusive use of the Contractor and are to be fenced and controlled by the Contractor. Any damage to the parking lots by the Contractor during construction shall be repaired at the expense of the Contractor.
5.	General	<p>Area C (see attached sketch) is a security-controlled area. Access via the current sally port doors (from W. Sycamore Street) for the purposes of Contractor or sub-contractors dropping off supplies, material etc. will need to be arranged with Guilford County Sheriff's Office ahead of time to facilitate Sheriff's Office staff being with them. Must provide at least 24 hours advance notice.</p> <p>No civilian personnel that are not members of the Sheriff's Office should be in the secure area between Jail Central and the LEC project at anytime during the duration of the project. Only exception would be work related to the project requiring it- such as cleaning of the exterior of the building, material deliveries, debris removal etc.</p>
6.	General	The building permit (\$12,119) is being paid by Guilford County. Any other permit costs above this amount shall be paid by the Contractor.
7.	General	Temporary removal and storage of precast panels during construction shall be the responsibility and cost of the Contractor. Owner does not have offsite storage availability for these panels.
8.	General	Parapet precast panels (although not intended to be removed) may be removed at the Contractor's responsibility and cost if necessary to facilitate roof access. See Structural drawings for guidelines for removal & replacement.
9.	General	As a further clarification of equipment to be demolished vs. equipment to be offered for sale on govdeals.com, all kitchen and laundry equipment is to be offered for sale by the County on govdeals.com. Built in building systems such as HVAC equipment, plumbing equipment & fixtures and electrical equipment & lighting are to be removed by the Contractor during demolition. Provided the govdeals.com auction has gone live

prior to receipt of bids, Contractors may view extent of items being sold online by the County. Contractors can call the Purchasing Department at 336-641-3226 for GovDeals website information. (The items are scheduled to release for auction throughout the day on July 20th and the auctions will close on July 30th.)

10. Table of Contents Is reissued to include spec sections 27 13 00 and 27 52 00, see attached.
11. Document 00311 Schedule of Values: Is reissued to include spec sections 27 13 00 and 27 52 00, see attached.
12. Section 01 21 00 Paragraph 1.6.C.1 add the following allowances:
 - c. Security Cameras: \$75,000.00 (Allowance for security cameras, installation, testing, and training. (Cabling is provided by the contractor.))
 - d. Access Control: \$200,000.00 (Allowance for access control system, devices, installation, testing, and training. (Cabling is provided by the contractor.))
 - e. Area of Rescue: \$30,000.00 (Allowance for area of rescue or two-way communication- equipment and wiring for Levels 2 through 8. The exact location will be field coordinated.)
13. Section 14 21 50 The intent of the elevator specifications is to provide for the modernization of the two existing elevators (2,500lb and 4,000lb capacities). All components not specifically indicated to be retained should be assumed to be replaced and bid accordingly.
14. Section 14 21 50 Paragraph 2.18; Add the following: C. Doors shall be 90-minute rated.
15. Section 14 21 50 Various Paragraphs: All equipment and components for the complete modernization of the existing elevators must be compatible with existing aspects of the elevators that are to remain. All equipment and components proposed for use must comply with paragraphs 1.5 (qualifications), 1.6.C. & 1.6.D. (as pertains to substitution) and 1.7 (warranties). Service for all equipment and components must be able to be provided by a single elevator service company.
16. Section 23 09 00 Automatic Temperature Controls: Guilford County currently controls all new buildings through an Open BACnet County wide Alerton BMS server that allows for browser-based access to the system. Guilford County has administrator level privileges for the server and the successful BMS contractor will coordinate with the County to add all new points through BACnet. The control contractor for this project will add points to the existing server to allow the owner the ability to trend, schedule, and alarm all points. Graphics may be either added to the existing server software package or a new server and software package can be added. To ensure continued sustainable operations and to minimize impact to county operations, all new graphics shall match the existing appearance, layout, and functionality of the existing County BMS server.

If the control system provided cannot add graphics to the existing server, then they shall provide a new "server". Any new server provided shall include the computer hardware, all server software and all programming software for the system including a full copy of MS SQL and MS Office. Server hardware shall be a 2U rack mounted server with Xeon processor, minimum of 1TB RAM, (2) 1TB HD's configured in Raid0 and dual 1GBS NIC cards. The new system shall provide a browser-based interface for the system that is based on HTML 5. No JAVA based access shall be accepted.

17. Section 27 13 00 Data and Infrastructure Cabling was added (see attached).
18. Section 27 52 00 CATV Systems was added (see attached).
19. Section 33 00 00 Paragraph 3.9. J.- FF (Floor Flatness) and FL (Floor Levelness) Numbers are not intended to be applied to the topping infill resulting from partition and wall demolition and chase infill areas on Levels 3 through 8. The slab surface shall be acceptable for the floor finishes and must meet the surface requirements for those materials. To meet those requirements surface modification such as grinding or leveling may be necessary, see specifications for the individual floor covering requirements.

DRAWINGS

ITEM	SHEET	DESCRIPTION
20.	L-501	General Landscape Notes, Item No. 1: reads as follow: "General Contractor to use licensed Landscape Contractors with Landscape Architect prior to bidding. Bids using Landscape Contractors not pre-approved will not be considered". Delete and Replace with the following: "All Landscape Contractors shall be licensed LC's in the state of North Carolina and Approved in Writing by the Landscape Architect prior to providing materials and installation on the project".
21.	A1.0	1026 Level 0 – Existing & Demolition Floor Plan: Contractor is to repair/replace ceilings after completion of above ceiling work in shaded secure areas. See attached Addendum Drawing ADD-2-2. Work in this area must be coordinated in advance with the Sheriff's Office. Sheriff's Office will provide an officer at a "call back rate" of \$20.00/hr. to the Contractor while work is on going this area. All tools, equipment, materials and contractor personnel are to be clear of this area while inmates are in the area.
22.	A1.0	1026 Level 0 – Existing & Demolition Floor Plan: at door 004 install concrete handicapped ramp extending west from existing concrete curb at 1:12 slope. Ramp to be flush with north edge of curb. Ramp to be approximately 6' long x 7' wide, details 9229 & 9230 on drawings A9.2 apply, omit railing.
23.	A1.1	1126 Level 1 – Main – Existing & Demolition Floor Plan: At Demolition Note 19 delete second sentence and replace with the following: "Remove existing quarry tile or ceramic tile floor, 2" setting bed and wall base. Repair slab depression to receive new topping slab (see structural drawings for topping slab requirements)".
24.	A1.1	Attached Addendum Drawings ADD-2-1 indicates areas on Level 1 where existing quarry / ceramic tile and setting bed are to be removed and replaced with topping slab.
25.	A1.1	All existing toilets not shown on Addendum Drawing ADD-2-1 are presumed to have thin set ceramic tile/base. All ceramic tile these areas is to be removed (including wall tile if present) and surface prepared to receive new finishes scheduled.
26.	A1.2	1226 Mechanical – Existing & Demolition Floor Plan – Roof Plan: Revise note- "Remove existing adhered single-ply roof membrane, insulation (to deck)" To read as follows: "Remove existing adhered single-ply roof membrane, insulation (to All-Weathercrete surface)"

27. A9.2 Detail 9229: The upper detail labeled 9229 should be relabeled 9230. The other detail labeled 9229 should show as cut through the left side of the ramp shown in detail 9224.
28. Structural The following Sheets are reissued and are attached.
S2.3, S2.4, S2.5, S2.6, S2.7, S2.8, S3.1A, S3.2, and S3.3.
29. S2.3 thru S2.6 Partial topping demolition and subsequent repair may be necessary where the precast connections need to be accessed, and panels temporarily removed.
30. S2.3 thru S2.8 There are numerous small chases that provided enclosures for Mechanical, Electrical, and Plumbing, ETC. The floor area within the chases may or may not have received the 2" bonded topping during original construction. Unless noted otherwise existing un-topped floor slab areas shall be in-filled.

For reference, based on the 1972 construction documents, the total chase floor area on levels 3, 4, 5 and 6 is approximately 250 sqft each. The total chase floor area on levels 7 and 8 is approximately 150 sqft. Each. Actual square footage and locations must be field verified by the contractor.

Add the following to the **CONCRETE FLOOR SLAB NOTES:**

5. The slab surface must meet the surface requirements for the specified covering floor materials. To meet those requirements surface modification such as grinding or leveling may be required, see specifications for the individual floor covering requirements.

6. Existing un-topped floor slab areas shall be in-filled, except at new floor penetrations. Un-topped areas may or may not be shown on the structural floor plan.
6.A. The floor area within the existing plumbing and mechanical chases typically did not receive a 2" bonded topping. A new bonded topping is required in these areas, install per 3/S4.1. *See attached revised sheets with Addendum #2 2018-07-19 Revisions.*

31. S2.3 thru S2.6 Detail 2/S2.3 thru 2/S2.6: Originally the structural drawings indicated there was a NEW bonded topping to be installed around the entire perimeter of the floor for the detention levels 3 through 8. The subject area was labeled "Guard Walk" on the 1972 construction drawings. The bonded topping for the ~3.5 ft wide "Guard Walk" has been confirmed to be existing at Level 3, Level 4, Level 5 and Level 6. The requirement to install a new bonded topping in the subject area of level 3, 4, 5 and 6 is removed. *See attached revised sheets with Addendum #2 2018-07-19 Revisions.*

NOTE: The perimeter "Guard Walk" at levels 7 and 8 was not topped. New bonded topping is only required at the perimeter "Guard Walk" floor area for levels 7 and 8.

32. S3.1A Detail 1/S3.1A: Note 8-inch embedment depth into existing concrete footing. Note 24-inch lap of vertical reinforcing at step in wall. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
33. S3.1A Detail 2/S3.1A: Note 8-inch embedment depth into existing concrete footing. At curb below exterior/interior slab joint, note #5 continuous reinforcing and #4 at 12-inch on center u-shape rebar, note 4-inch embedment depth into existing concrete beam. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
34. S3.1A Detail 3/S3.1A: Note typical reinforcement. Note 24-inch lap of vertical reinforcing at step in wall. Note dowels matching vertical reinforcing with 3'-0" lap. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*

35. S3.1A Detail 4/S3.1A: Note 8-inch embedment depth into existing concrete footing. Note 24-inch lap of vertical reinforcing at step in wall. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
36. S3.1A Detail 5/S3.1A: Note typical reinforcement. Note 24-inch lap of vertical reinforcing at step in wall. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
37. S3.1A Detail 6/S3.1A: Note typical reinforcement. Note 24-inch lap of vertical reinforcing at step in wall. Note dowels matching vertical reinforcing with 3'-0" lap. Note footing size and reinforcement reference to section 5/S3.1A. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
38. S3.2 Detail 4/S3.2: Note 6'-0" long O.F. dowels. Note #6 continuous bars in footing. Revise reinforcing at new wall adjacent to the existing wall to #5 at 12-inches on center, each face. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
39. S3.2 Detail 4/S3.2: Note 6'-0" long O.F. dowels. Note #6 continuous bars in footing. Revise reinforcing at new wall adjacent to the existing wall to #5 at 12-inches on center, each face. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
40. S3.2 Detail 7/S3.2: Add 'Rebar Development and Lap Splice Table'. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
41. S3.3 Detail 1/S3.3: Add L2½x 2½x1/4 x-bracing. *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
42. S3.3 Detail 4/S3.3: Note 3/8" connection plate typical at knee bracing. Note knee bracing size is typical (L2½x 2½x1/4). *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
43. S3.3 Detail 5/S3.3: Note 3/8" connection plate typical at knee bracing. Note knee bracing size is L2½x 2½x1/4. Note base plate size is ½"x6"x6". *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
44. S3.3 Detail 7/S3.3: Note 3/8" connection plate typical at knee bracing. Note base plate size is ½"x6"x6". *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
45. S4.1 Detail 9A/S4.1: The saw cut surface at the new opening is to be uniform. Overcutting is not permitted. Dress edges as required to maintain uniformity *See attached revised sheet with Addendum #2 2018-07-19 Revisions.*
46. ED0.02 Near Elevator #2: The lights shown in the hatched corridor to the "plan right" side of the elevator #2 – Disregard note to provide "All new light fixtures this level". The existing lights in the hatched area will remain, unchanged.

END OF ADDENDUM

Guilford County Law Enforcement Center Renovation

PRE-BID CONFERENCE AGENDA

July 17, 2018
9:00 AM

- I. Welcome – Jim Halberg (Guilford County Facilities)
- II. Owner Comments – Jim Halberg
 - HUB and Minority Business goals
 - Owner's Security Requirements
- III. Introduction of Project Team – Clark Pierce/Matt Messick (Walter Robbs)
- IV. Preferred Hardware in accordance with GS 133-3

Preferred Building HVAC Controls in accordance with GS 133-3
- V. Brief description of project scope and systems
 - A. Architectural – Walter Robbs
 - B. Electrical – CES
- VI. General Question and Answers
- VII. Building Tours (Group)
- VIII. Building Tours (Individuals) note: Must sign an additional sign in sheet.

- All attendees please sign-in -

Meeting Notes

Walter Robbs Callahan & Pierce Architects, PA will rely on these notes as our understanding of the matters discussed and conclusions reached during this meeting. This information will be the approved record unless you send written notice to the contrary within seven calendar days of the issue date of these meeting notes.

Project:	Guilford County Law Enforcement Center Renovation	Project #: 17-496
Meeting Location:	Guilford County Law Enforcement Center - Lobby	Meeting Date: 07/17/2018
Meeting Purpose:	Mandatory Pre-Bid Meeting	
Present:	See attached sign-in sheet.	

	Items Discussed
1.	Any General Contractor who attended either the previous pre-bid meeting on 7/10/18 or 7/17/18 will be allowed to bid the project.
2.	The MWBE requirements for the project were discussed, and the forms were made available to all prime bidders. All forms must be signed and notarized to be considered complete.
3.	MWBE participation is a high priority of Guilford County, and all GC's are encouraged to exchange contact information with the Subcontractors present at the pre-bid meetings.
4.	Addendum #1 has been issued and is available on Walter Robbs' Sharefile project site as well as Guilford County's website. Minutes from the previous pre-bid meeting are also included on these two sites.
5.	The renovated area of all floors in the building is approximately 114,000sf. The bottom level of the building is predominantly parking. The space directly outside the enclosed parking is secured space contiguous with the Guilford County Jail. Access will be limited from the outside directly into the parking level and will need to be coordinated directly with the Sheriff's Office.
6.	The original contract documents for this renovation show a number of doors to be removed. The Sheriff's Office has since removed a number of doors/ frame in training exercises. This was addressed by Addendum No. 1.
7.	The majority of wall/partitions on the main level will be removed as part of the demolition work.
8.	GC's needing further access to the building after the pre-bid meetings will need to contact Jim Halberg with Guilford County Facilities at 336-451-4917. Jim will arrange individual GC tours as needed.
9.	The first 4 existing detention floors, Levels 3-6, contain 4" thick precast concrete wall panels, tilted up into a notch in the ceiling above, and clipped to the floor and covered with a 2" concrete topping slab. It is the intent to leave as much of the 2" topping slab as possible, but the GC will need to chip back the slab to detach the clips and infill the slab back flush.
10.	Chase openings in the structural waffle slab will need to be coordinated with the structural drawings and confirmed with the Structural Engineer.

Distribution:

Prepared by:
Matthew D. Messick AIA, LEED AP BD+C

Issue Date: 07/19/2018

	Items Discussed
11.	Insulation along the exterior walls of Levels 3-6 is believed to be fireproofing spray. Levels 7-8 have foil faced fiberglass insulation. New insulation will be installed throughout the building as part of this renovation.
12.	No hazardous materials are believed to remain in the building. If the GC uncovers hazardous materials, they are to notify the Architect immediately so that remediation can occur.
13.	The upper 2 levels of the building were renovated in 2001 using primarily reinforced cmu walls. The GC should anticipate 8" rebar at 8" o.c. in these walls.
14.	Mechanical system will be totally replaced in the renovation. The cooling tower at the roof will be removed, along with old equipment and heat pumps. Central plant for the mechanical system is one level up from the main level.
15.	The upper 6 levels are currently sprinklered. Other levels will receive sprinklers as part of the renovation.
16.	The existing floor to ceiling clearances are very tight on the upper floors, with the average clearance being less than 9'-0". Mechanical, electrical, and plumbing will all need to be accommodated in this space. Code requires all areas to be a minimum of 7'-0" clear, however it is the goal to achieve at least 7'-6" clearance where possible.
17.	Electrical raceways will generally remain. Feeders will be replaced. The existing building generator will remain.
18.	Basement level (Level 0) will receive some renovation. Parking on this level will remain. Access will be primarily from the interior of the building down, however limited access from the roll-up doors for deliveries can be coordinated through the Sheriff's Department. A minimum of 24-hour notice will need to be given. The GCLEC space must remain secure from the outside.
19.	Site staging is tight. There are 2 parking lots on the south side that will be made available to the GC for parking, storage, or staging. The parking lot will need to be repaired to its like condition after work is complete.
20.	Panels were removed from a section of the south side during previous renovations. It is believed that this would be the logical location to removed panels for this renovation as well. The sealant joints are lighter where the panels were reinstalled and caulked.
21.	There is one central double helix stair in the building. The GC is advised that one side of the stair leads to the basement, and the other side leads to the main entry level.
22.	Several alternates are identified in the project manual. The main alternate is the upfit of Probation and Parole on Levels 3-5. The toilets, janitor closet, and shell perimeter walls are to be installed under the base bid.
23.	Perimeter clerestory windows on Levels 3-8 are being replaced in the renovation and are part of the base bid, as are the vertical narrow windows. All vertical narrow windows on Level 3-8 & Level 1 will receive new glazing and stops.
24.	There is an alternate to clean the exterior of the building. Due to the age of the caulk joints, it is likely that the joints will be blown out if the exterior of the building is cleaned, therefore exterior caulking is also included as an alternate.
25.	New landscaping is planned around the perimeter. Existing tree roots around curbing are to be removed.
26.	GC will need to coordinate all street closures with the City of Greensboro for this project. The GC may opt to apply for a single lane closure along Sycamore Street. It is not likely that the City will allow closure of S. Eugene Street during this renovation.
27.	No DENR permits have been pulled for this project, as no grading is anticipated other than what is necessary to remove and replace main entry ramp/steps.
28.	Demolition of the entry plaza and ramp will occur. A new ramp and storefront entrance are shown on the drawings.
29.	The pump room for the underground tank on the north end of the building has been abandoned & pump is believed to have been removed. Underground storage tank has been removed.
30.	GC's are reminded that their bids will be held for up to 90 days.

	Items Discussed
31.	The construction duration for the renovation is currently set at 420 days.
32.	Pre-bid agenda, sign-in sheet, and minutes will be attached to the next addendum.
33.	Last day for questions is 7 days prior to bids.

Pre-bid Sign in Sheet

Project: Guilford County Law Enforcement Center
Location: Greensboro, NC 27401
Project #: 17-496

Date: 7/17/2018

NAME	FIRM	TELEPHONE / EMAIL
Adam Breece	Delaware Elevator	443-366-4992 (obaker@delawareelevator.com)
Nick Dial	EHG	919-868-1543 / ndial@ehgllc.com
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Corneilus Lambeth	TCORE Service Co LLC	336-274-2384 336-362-1646 jhlamb@hotmail.com
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Dani Loftis		DLoftis@guilfordcounty.nc.gov 336-202-4263
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Oscar D. Lopez	Aurora Renovations	336-708-4486 Oscar@AuroraNCConstruction.com
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Susan Crofts	GC Purchasing	scrofts@guilfordcounty.nc.gov

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WALTER ROBBS CALLAHAN & PIERCE ARCHITECTS, PA
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Pre-bid Sign in Sheet

Project: Guilford County Law Enforcement Center
Location: Greensboro, NC 27401
Project #: 17-496

Date: 7/17/2018

NAME	FIRM	TELEPHONE / EMAIL
CHRIS WALKER	DARI	336-382-8646 cwalker@dhsgriffin.com
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Ricky Delgo	Clean Air Env.	(336) 768-4825 cleanairinc/rdl/Southern
TRAVIS WILSON	HOLT BROTHERS CONSTRUCTION	(919) 987-5804 / twilson@holtbrothersinc.com
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WALTER ROBBS CALLAHAN & PIERCE ARCHITECTS, PA

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Pre-bid Sign in Sheet

Project: Guilford County Law Enforcement Center
Location: Greensboro, NC 27401
Project #: 17-496

Date: 7/17/2018

NAME	FIRM	TELEPHONE / EMAIL
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EARL DANIELS	Ind. Thompson Co	919 851-1611
Michael Reed	GC	mreed@guilfordcountync.gov
Clark Pierce	Walter Robbs	336 725-1371 clarkp@walterrobbs.com
Jim Halberg	Guilford Co.	336 451-4917 jhalberg@guilfordcountync.gov

Meeting Notes

Walter Robbs Callahan & Pierce Architects, PA will rely on these notes as our understanding of the matters discussed and conclusions reached during this meeting. This information will be the approved record unless you send written notice to the contrary within seven calendar days of the issue date of these meeting notes.

Project:	Guilford County Law Enforcement Center Renovation	Project #: 17-496
Meeting Location:	Guilford County Law Enforcement Center - Lobby	Meeting Date: 07/10/2018
Meeting Purpose:	Mandatory Pre-Bid Meeting	
Present:	See attached sign-in sheet.	

	Items Discussed
1.	Guilford County will be posting all items in the building marked "SELL" on govdeals.com for auction. Other items not marked or marked "DISPOSE" will be left behind and will be the responsibility of the General Contractor to remove. All fixed items have been unattached from the floor or wall for removal.
2.	Today's meeting is the first of two available mandatory pre-bid meetings. The second available pre-bid meeting will occur on July 17, 2018 in the lobby of the Guilford County Law Enforcement Center at 9:00am for contractors who were unable to attend the first meeting. Every General Contractor bidding the project must attend one of the two mandatory pre-bid meetings to qualify to bid the project.
3.	Sign-in sheets from the Architect's office as well as Guilford County will be issued by addendum. Contractors are encouraged to utilize these sign-in sheets for bidding purposes.
4.	All General Contracts are required to meet the County's 10% MWBE goal. Forms were handed out at the pre-bid meeting to all General Contractors present and will be available at the next pre-bid meeting on July 17, 2018. This is a very high priority to Guilford County that MWBE goals be met.
5.	Yale Hardware is the preferred hardware brand for Guilford County. A preferred brand alternate will be included in the bid for using Yale Hardware.
6.	Existing building controls are based on Alerton. Any other system being used that is pre-approved for bidding must be able to communicate with the Alerton Controls System.
7.	The upfit of Probation and Parole upfit on Levels 3, 4, and 5 represents the largest alternate on the project. Gutting and prepping of the floors, installation of new windows, installation of toilets and data closets are all base bid work on Levels 3, 4, and 5. Please be sure to identify this properly in your bid.
8.	Guilford County has identified an alternate to enlarge the existing slit windows to create larger windows. A unit price per window is also being asked for if the quantity of windows being enlarged changes. Read the alternates section in the project manual for additional information.

Distribution:

Prepared by:
Matthew D. Messick AIA, LEED AP BD+C

Issue Date: 07/12/2018

	Items Discussed
9.	Cleaning of the exterior concrete façade and reinstalling sealant joints are also identified as alternates. It is anticipated that, based on the age of the sealants, cleaning will remove some of the sealant, therefore all sealant is to be replaced under a separate alternate.
10.	Some of the door frames are identified as being reused. This information will be shared with the General Contractors by addendum. The Fire Department has removed and/or partially removed several frames in test exercises since the building was vacated. This will be evident in the walk-through. Regardless of the frames, all doors are planned to be replaced.
11.	The main entry walkway entrance ramp is being replaced along with the entry storefront being removed and relocated further out towards Sycamore Street. These items are identified on the drawings.
12.	The level below the main entrance is 2/3 parking garage. There is limited access to this level, and the General Contractor will need to coordinate any special delivery of material through the Sheriff's Department. In general, this space will only be accessible through the upper interior floors since it abuts the secure vehicular sally port area of the adjacent Guilford County Jail.
13.	There is currently no sprinkler piping on the first two levels. It is the intention to re-use as much of the existing main sprinkler piping on the upper levels. Entire building is planned to be sprinkled.
14.	Concrete planters, trees, etc. on the exterior, are being removed and replaced with low maintenance plants. A landscape plan has been provided in the drawings. There are two existing monitoring wells at the corner of Sycamore and South Eugene Streets. The successful General Contractor will need to confirm that these wells are now inactive.
15.	The existing Underground Storage Tank along Sycamore Street has been removed. The existing fuel pump under the main entry has been removed. The successful General Contractor will need to notify the Architect if this is not the case.
16.	Access to the building for individual tours will be provided to General Contractors only. They will need to coordinate with their team and sign up on Guilford County's individual tour sign-in sheet at the mandatory pre-bid meeting. Contact Jim Halberg with Guilford County (336-641-3314).
17.	Jim Halberg will determine the requirements for submitting the Schedule of Values with the bid or if it can be submitted the next day. This information will be clarified by addendum.
18.	Bids will be received on or before 3:00pm on July 26, 2018 in the basement of the Old Courthouse Building in the Purchasing Department Room B-32.
19.	The open public bid will take place at 3:00pm-5:00pm (as needed) on July 26, 2018 in the Blue Room of the Old Courthouse Building. This room will be available to bidders at 2:45pm.
20.	Note that only General Contractors registered with the Architect's office and having gained access to The Architect's ShareFile project site will receive addenda on this project.
21.	The Architect will confirm by addendum whether the permit fees for this project (approximately \$12,000) will be paid by the Owner prior to bidding or will be the responsibility of the General Contractor to include in their bid.
22.	There are two small parking lots on the south end of the site that will be available to the General Contractor for staging and debris removal. South Eugene Street is probably not an option for these construction activities. Check with the city. The General Contractor will need to coordinate with the City to shut down portions Sycamore Street as construction activity warrants.
23.	Existing drawings from the original construction and subsequent renovations have been scanned and will be made available to General Contractors on the Architect's Sharefile project site.
24.	Concerning electrical scope, it is the intention to re-use existing conduit to the greatest extent possible. The power will be shut down as part of the demolition, and it will be the responsibility of the General Contractor to provide temporary power service as required.

	Items Discussed
25.	Concerning mechanical scope, the existing mechanical system is being removed and replaced with a 4-piped system with cooling coils and VAVs with boilers and chillers. The top floor will be conditioned from roof top units.
26.	The existing floor structure is a concrete waffle slab. Any new duct penetrations will need to be carefully coordinated with the waffle slab structure and the Structural Engineer.
27.	Bids are required to be held for 90 days.
28.	The construction duration has been identified in the project manual to be 420 calendar days.
29.	First floor cells are 4" precast concrete wall panels locked into place with clips and a 2" concrete topping slab.
30.	During previous renovations, sections of precast concrete wall panels were removed on the south side and can be identified by the lighter colored caulk joints on the façade. Precast Concrete Panels on the south side will need to be removed for demolition and construction access. Process/requirements/precautions for removal are noted on Structural Drawings.
31.	A soil bearing report has not been done, and due to the nature of the work, it is not anticipated that one will be provided. There are unit price quantity allowances for unsuitable soil in the specs.
32.	There are several unit prices identified in the project manual, including unsuitable soil removal and stone fill. These items are also identified on the bid form.
33.	The General Contractor will be responsible for providing the Independent Testing Lab for this project and Special Inspections.
34.	Affidavits A, B, and C are required to be notarized, signed, and included with each bid.
35.	The building is believed to be free of hazardous materials, based on previous renovation projects. If the General Contractor uncovers hazardous material during demolition or construction, they shall immediately bring this to the attention of the Architect and Owner, so it can be properly remediated. Owner will either have the material remediated or issue a change order to the General Contractor for remediation.
36.	
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43.	

Guilford County Law Enforcement Center
401 W. Sycamore Street, Greensboro, NC 27401
Guilford County Sheriff Law Enforcement Center Renovation

DOCUMENT 00330 – MBE GUIDELINES AND AFFIDAVITS

COVER PAGE INCLUSIVE OF

1. REQUIREMENTS PERTAINING TO THE PARTICIPATION OF MINORITY BUSINESSES IN BUILDING (CONSTRUCTION – REPAIR) CONTRACTS FOR GUILFORD COUNTY, NC
2. IDENTIFICATION OF MINORITY BUSINESSES PARTICIPATION (*Attach to Bid*)
3. AFFIDAVIT A – LISTING OF THE GOOD FAITH EFFORT (*Attach to Bid*)
4. AFFIDAVIT B - INTENT TO PERFORM CONTRACT WITH OWN WORKFORCE (*Attach to Bid*)
5. AFFIDAVIT C – PORTION OF THE WORK TO BE PERFORMED BY MINORITY FIRMS (Do not submit with *bid*)
6. AFFIDAVIT D – GOOD FAITH EFFORTS (*To be submitted only by the apparent lowest responsible, responsive bidder*)
7. APPENDIX E – MBE DOCUMENTATION FOR CONTRACT PAYMENTS (*To be submitted with each pay request – Final Payments – Final Reports by awarded bidder*)

**REQUIREMENTS PERTAINING TO THE PARTICIPATION OF MINORITY BUSINESSES IN BUILDING
(CONSTRUCTION - REPAIR) CONTRACTS FOR GUILFORD COUNTY, N.C.**

Date 1-1-02

One primary responsibility of Guilford County (GC) government is the proper use of public revenue to purchase the various items, services, construction and repairs needed to operate. All expenditures of county funds must be in accordance with the NC laws. Construction contracts are subject to applicable laws, including Article 8, N.C.G.S. Chapter 143, which shall control in the event of any conflict.

For building (construction - repair), whose estimated total cost is \$500,000 or more, a formal bid process is required. This generally consists of written specifications, advertisement, bid bond, usually a prebid meeting, at least three responses on the first opening, public opening of bids, Commissioners' approval, notice of award to all participants, and written contract.

Specifications for building (construction - repair) projects requiring an expenditure of \$500,000 or more requires separate specifications for the following areas of work:

- Heating, Ventilating and Air Conditioning (HVAC)
- Plumbing
- Electrical
- General

and may be bid separate-prime (allowing bids for each of the above categories), single- prime (a bid for the total project), or dual-prime, as provided in Article 8, N.C.G.S. Chapter 143. Award is made to the lowest responsive, responsible bidder(s), as provided by law.

Contractors who bid single-prime must identify in their bid response the names of each sub-contractor for HVAC, Plumbing and Electrical.

For building (construction - repair) projects requiring an expenditure of \$100,000 or more, state law (G.S. 143-128.2) requires the public government (awarding authority) involved to adopt, after a public notice and a public hearing, an appropriate verifiable percentage goal for participation by minority business in the total value of work for each building (construction - repair) contract awarded. G.S. 143-128.2 must be read, understood, and complied with by each bidder.

Guilford County has established its verifiable minority participation goal on 3-5-90 at ten (10) percent.

In addition, each separate-prime and single-prime contractor must establish its own goal when dealing with sub-contractors and provide appropriate documentation to the awarding authority.

In each case, the responsibilities of auditing and compliance with this law is that of the awarding authority, which in this case is Guilford County.

A minority business is defined as ownership of 51% or more by a minority. Minorities are officially defined as:

- (a) Black, that is, a person having origins in any of the black racial groups in Africa;
- (b) Hispanic, that is, a person of Spanish or Portuguese culture with origins in Mexico, in South or Central America, or the Caribbean Islands, regardless of race;
- (c) Asian American, that is, a person with origins in any of the original peoples of the Far East, Southeast Asia and Asia, the Indian subcontinent, or the Pacific Islands;
- (d) American Indian, that is, a person having origins in any of the original Indian peoples of North America; or
- (e) Female.

(Requirements - continued)

The Guilford County method of compliance is basically as follows:

1. For any expenditure of funds, including building construction and repair, it is GC's policy to give every supplier, business or contractor in Guilford County an equal and fair opportunity to participate. In order to accomplish this, we maintain a list of all suppliers, businesses and contractors. We have also identified all minorities on this list and we update this list on a continuous basis.
2. When bids are needed for any item, service, construction or repair, we make sure that all on our list are contacted by mail and/or phone. Larger expenditure items requiring formal bids are advertised.
3. All building construction and repair contracts over \$500,000 would be in the formal bid range requiring the mailing of bid packages (specifications), advertising and prebid meetings. All contractors on our list will either be mailed a copy of the bid package or notified in writing as to how a bid package can be obtained. All contractors on our list will also be invited to our prebid meetings.
4. In our bid package and at our prebid meeting, we explain that every contractor will be given an equal opportunity to obtain all or part of the contract award. Guilford County is ready and willing to work with any contractor to help it understand and properly compete for contract awards. The other requirements of G.S. 143-128.2 and G.S. 143-128.3 will be complied with by the County, when applicable.
5. Guilford County maintains a record as to who was awarded contracts and with the minority identification GC can state the percentage of minority participation.
6. This goal of ten (10) percent is a goal, and is not a requirement, demand, set aside or guarantee to minorities. It is, however, a serious goal and we seek to achieve this goal, as explained above, by continuing to give every supplier, business and contractor an equal opportunity to participate but to make all purchases and to award all contracts on the basis of best value.
7. All bidders shall make the minority participation disclosures required by G.S. 143-128.2(c) and comply with the other requirements of G.S. 143-128.2.

The state law requires and Guilford County expects its contractors to deal with their sub-contractors in the same manner and the state law and Guilford County require verification that this approach is being followed. The minority percentage goal set by each contractor for their sub-contractors is up to them and does not necessarily have to agree with the ten (10) percent which has been set by Guilford County. The method in which all prime contractors plan to attain this goal is, however, very important to GC and must be fully explained and it will be audited by GC.

Guilford County will help any contractor in this effort by supplying a list of all minority suppliers by trade category. Guilford County will consider a "good faith" effort by the contractor involved if the contractor makes a positive effort to contact each minority supplier and to allow each an equal opportunity to quote on the particular work involved.

If anyone has questions concerning GC's approach to the minority participation percentage goal, what is covered here, what is covered by the GC resolution, or the NC laws, they should contact Guilford County Purchasing at 336-641-3226.

(Requirements - continued)

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide on the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identity 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 the participation form and Affidavit (**A**) required above.

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 established.

This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and

Affidavit **D** is

not necessary;

OR

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall

be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must submit **with their bid** the Identification of *Minority Business Participation* list and Affidavit *A* or Affidavit *B* as applicable. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder may be grounds for rejection of the bid.

Identification of Minority Business Participation

(Name of Bidder)

do hereby certify that on this project, we will use the following minority business enterprises as construction subcontractors, vendors, suppliers or providers of professional services.

[illegible]

*Minority categories: Black, African American (B), Hispanic (H), Asian American (A), American Indian (I), Female (F) Socially and Economically Disadvantaged (D)

The total value of minority business contracting will be (\$)_____

R09-02

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State of North Carolina - AFFIDAVIT A - Listing of the Good Faith Effort

County of _____

Affidavit of _____
(Name of Bidder)

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30A .0101, et seq.)

- ☐ 1 – (10 pts) Contacted 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 date and notified them of the nature and scope of the work to be performed.
- ☐ 2 – (10 pts) Made 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 bids are due.
- ☐ 3 – (15 pts) Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- ☐ 4 – (10 pts) Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- ☐ 5 – (10 pts) Attended prebid meetings scheduled by the public owner.
- ☐ 6 – (20 pts) Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- ☐ 7 – (15 pts) Negotiated in good faith with interested minority businesses and did not reject 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.
- ☐ 8 – (25 pts) Provided 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. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- ☐ 9 – (20 pts) Negotiated 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.
- ☐ 10 – (20 pts) Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d). Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____

State of North Carolina, County of _____

Subscribed and sworn to before me this day of _____ 20_____

Notary Public _____

My commission expires _____



R09-02

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Attach to Bid

Attach to Bid

Attach to Bid

Attach to Bid

Attach to Bid

State of North Carolina -AFFIDAVIT B - Intent to Perform Contract with Own Workforce.

County of _____

Affidavit of _____
(Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the
_____ contract.
(Name of Project)

In making this certification, the Bidder states that the Bidder 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/her own current work forces; and

The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____ Name of Authorized Officer: _____

Signature: _____

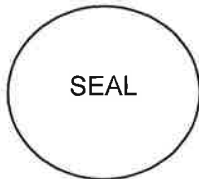
Title: _____

State of North Carolina, County of _____

Subscribed and sworn to before me this day of _____ 20 _____

Notary Public _____

My commission expires _____



R09-02

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Do not submit with bid

Do not submit with bid

Do not submit with bid

Do not submit with bid

State of North Carolina - AFFIDAVIT C - Portion of the Work to be Performed by Minority Firms

County of _____

(Note this form is to be submitted only by the apparent lowest responsible, responsive bidder.)

If the portion of the work to be executed by minority businesses as defined in GS143-128.2(g) is equal to or greater than 10% of the bidders total contract price, then the bidder must complete this affidavit.

This affidavit shall be provided by the apparent lowest responsible, responsive bidder within 72 hours after notification of being low bidder.

Affidavit of _____ I do hereby certify that on the
(Name of Bidder)

(Project Name)

Project ID# _____ Amount of Bid \$ _____

I will expend a minimum of _____ % of the total dollar amount of the contract with minority business enterprises. Minority businesses will be employed as construction subcontractors, vendors, suppliers or providers of professional services. Such work will be subcontracted to the following firms listed below.

(Attach additional sheets if required)

Name and Phone Number	*Minority Category	Work description	Dollar Value

*Minority categories: Black, African American (B), Hispanic (H), Asian American (A), American Indian (I), Female (F) Socially and Economically Disadvantaged (D)

Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with Minority Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____

State of North Carolina, County of _____

Subscribed and sworn to before me this day of _____ 20____

Notary Public _____

My commission expires _____



R09-02

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Do not submit with bid

Do not submit with bid

Do not submit with bid

Do not submit with bid

State of North Carolina - AFFIDAVIT D - Good Faith Efforts

County of _____

(Note this form is to be submitted only by the apparent lowest responsible, responsive bidder.)

If the goal of 10% participation by minority business is not achieved, the Bidder shall provide the following documentation to the Owner of his good faith efforts:

Affidavit of _____

(Name of Bidder)

I do certify the attached documentation as true and accurate representation of my good faith efforts.

(Attach additional sheets if required)

Name and Phone Number	*Minority Category	Work description	Dollar Value

*Minority categories: Black, African American (B), Hispanic (H), Asian American (A), American Indian (I), Female (F) Socially and Economically Disadvantaged (D)

Documentation of the Bidder's good faith efforts to meet the goals set forth in these provisions. Examples of documentation include, but are not limited to, the following evidence:

- A. Copies of solicitations for quotes to at least three (3) minority business firms from the source list provided by the State or local government for each subcontract to be let under this contract (if 3 or more firms are shown on the source list). Each solicitation shall contain a specific description of the work to be subcontracted, location where bid documents can be reviewed, representative of the Prime Bidder to contact, and location, date and time when quotes must be received.
- B. Copies of quotes or responses received from each firm responding to the solicitation.
- C. A telephone log of follow-up calls to each firm sent a solicitation.
- D. For subcontracts where a minority business firm is not considered the lowest responsible sub-bidder, copies of quotes received from all firms submitting quotes for that particular subcontract.
- E. Documentation of any contacts or correspondence to minority business, community, or contractor organizations in an attempt to meet the goal.
- F. Copy of pre-bid roster.
- G. Letter documenting efforts to provide assistance in obtaining required bonding or insurance for minority business.
- H. Letter detailing reasons for rejection of minority business due to lack of qualification.
- I. Letter documenting proposed assistance offered to minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letter of credit, including waiving credit that is ordinarily required.

Failure to provide the documentation as listed in these provisions may result in rejection of the bid and award to the next lowest responsible and responsive bidder.

Date: _____ Name of Authorized Officer: _____

Signature: _____

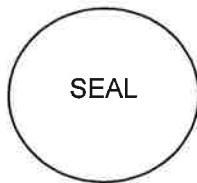
Title: _____

State of North Carolina, County of _____

Subscribed and sworn to before me this day of _____ 20_____

Notary Public _____

My commission expires _____



R09-02

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APPENDIX E

MBE DOCUMENTATION FOR CONTRACT PAYMENTS

Prime Contractor/Architect: _____

Address & Phone: _____

Project Name: _____

SCO Project ID: _____

Pay Application #: _____ **Period:** _____

The following is a list of payments made to Minority Business Enterprises on this project for the above-mentioned period.

MBE FIRM NAME	*TYPE OF MBE	AMOUNT PAID THIS MONTH (With This Pay App)	TOTAL PAYMENTS TO DATE	TOTAL AMOUNT COMMITTED

*Minority categories: Black, African American (B), Hispanic (H), Asian American (A), American Indian (I), Female (F) Socially and Economically Disadvantaged (D)

Approved/Certified by:

(Name)

(Title)

(Date)

(Signature)

SUBMIT WITH EACH PAY REQUEST-FINAL PAYMENT-FINAL REPORT

(Revised on 2/5/2008)



**Guilford County Law Enforcement Center Renovation
DCR Shelco 001 Attachment 1
7/13/18**

Project Manual
Request for Proposal
Event # 625
Guilford County Law Enforcement Center
 401 W. Sycamore Street
 Greensboro, NC 27401
Guilford County Law Enforcement Center Renovation

TABLE OF CONTENTS

DOCUMENTS

Document 00001	PROJECT TITLE PAGE	
Document 00002	SEALS PAGE	
Document 00010	TABLE OF CONTENTS	00010-1 to 00010-12
Document 00100	INVITATION TO BID	00100-1 to 00100-2
Document 00200	INSTRUCTION TO BIDDERS	00200-1 to 00200-4
Document 00215	DOCUMENT CLARIFICATION REQUEST AND FORM	00215-1 to 00215-2
Document 00300	FORM OF PROPOSAL	00300-1 to 00300-4
Document 00311	SCHEDULE OF VALUES <i>(Attach to Bid)</i>	00311-1 to 00311-4
Document 00330	MBE GUIDELINES AND AFFIDAVITS <i>(See Section for documents required to be attached to bid)</i>	00330-1 to 00330-10
Document 00335	E-VERIFY AFFIDAVIT <i>(Attach to Bid)</i>	00335-1 to 00335-2
Document 00480	NON-COLLUSION AFFIDAVIT <i>(Attach to Bid)</i>	00480-1
Document 00481	STATEMENT OF OWNERSHIP <i>(Attach to Bid)</i>	00481-1
Document 00486	CONSENT OF SURETY <i>(Attach to Bid)</i>	00486-1
Document 00490	CONTRACTOR'S QUALIFICATION STATEMENT AIA DOCUMENT A305-2010 EDITION <i>(Attach to Bid)</i>	00490-1
Document 00497	GENERAL GUARANTEE	00497-1
Document 00498	SINGLE PLY ROOFING WARRANTY	00498-1
Document 00499	ASBESTOS FREE WARRANTY	00499-1
Document 00500	CONTRACT BETWEEN COUNTY OF GUILFORD AND CONTRACTOR <i>(Straight Purchase Example)</i>	00500-1 to 00500-5
Document 00820	GUILFORD COUNTY'S GENERAL TERMS AND CONDITIONS OF THE CONTRACT	00820-1 to 00820-4
Document 00821	SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT	00821-1 to 00821-33
Document 00938	REQUEST FOR INFORMATION AND FORM	00938-1 to 00938-2
Document 00950	FORM OF BID BOND	00950-1
Document 00975	CONSENT TO BACKGROUND CHECK	00975-1

SPECIFICATIONS

(WRCP) = Walter Robbs Callahan & Pierce

(SKA) = SKA Consulting Engineers, Inc

(CES) = Consultant Engineering Service, Inc

DIVISION 1

GENERAL REQUIREMENTS

(WRCP) SECTION 01 10 00	SUMMARY	01 10 00-1 to 01 10 00-2
(WRCP) SECTION 01 21 00	ALLOWANCES	01 21 00-1 to 01 21 00-3
(WRCP) SECTION 01 23 00	ALTERNATES AND UNIT PRICES	01 23 00-1 to 01 23 00-3
(WRCP) SECTION 01 25 00	CONTRACT MODIFICATIONS PROCEDURES	01 25 00-1 to 01 25 00-2
(WRCP) SECTION 01 31 00	PROJECT COORDINATION	01 31 00-1 to 01 31 00-2
(WRCP) SECTION 01 31 50	PROJECT MEETINGS	01 31 50-1 to 01 31 50-2
(WRCP) SECTION 01 33 00	SUBMITTALS	01 33 00-1 to 01 33 00-7
(WRCP) SECTION 01 35 20	GENERAL PROJECT PROCEDURES	01 35 20-1 to 01 35 20-2
(SKA) SECTION 01 41 00	SPECIAL INSPECTIONS	01 41 00-1 to 01 41 00-8
(WRCP) SECTION 01 42 10	REFERENCE STANDARDS AND DEFINITIONS	01 42 10-1 to 01 42 10-4
(WRCP) SECTION 01 45 00	QUALITY CONTROL / QUALITY ASSURANCE	01 45 00-1 to 01 45 00-2
(WRCP) SECTION 01 50 00	TEMPORARY FACILITIES	01 50 00-1 to 01 50 00-5
(WRCP) SECTION 01 63 00	PRODUCT SUBSTITUTION	01 63 00-1 to 01 63 00-4
(WRCP) SECTION 01 74 00	FINAL CLEANING	01 74 00-1 to 01 74 00-2
(WRCP) SECTION 01 75 00	DOCUMENTS AT THE PROJECT SITE	01 75 00-1
(WRCP) SECTION 01 78 10	PROJECT CLOSEOUT	01 78 10-1 to 01 78 10-4
(WRCP) SECTION 01 78 80	WARRANTIES AND BONDS	01 78 80-1 to 01 78 80-2
(WRCP) SECTION 01 83 00	EQUIPMENT MAINTENANCE AND OPERATIONS PROGRAM	01 83 00-1

DIVISION 2

SITE WORK

(WRCP) SECTION 02 22 00	SITE DEMOLITION	02 22 00-1 to 02 22 00-3
(WRCP) SECTION 02 22 10	SELECTIVE DEMOLITION	02 22 10-1 to 02 22 10-4

DIVISION 3

CONCRETE

(SKA) SECTION 03 10 00	CONCRETE FORMWORK	03 10 00-1 to 03 10 00-5
(SKA) SECTION 03 20 00	CONCRETE REINFORCEMENT	03 20 00-1 to 03 20 00-5
(SKA) SECTION 03 25 00	ADHESIVE ANCHORS	03 25 00-1 to 03 25 00-4
(SKA) SECTION 03 30 00	CAST-IN-PLACE CONCRETE	03 30 00-1 to 03 30 00-26

DIVISION 4**MASONRY**

(WRCP) SECTION 04 06 00	MASONRY MORTAR	04 06 00-1 to 04 06 00-4
(WRCP) SECTION 04 20 00	UNIT MASONRY	04 20 00-1 to 04 20 00-8

DIVISION 5**METAL**

(SKA) SECTION 05 12 00	STRUCTURAL STEEL FRAMING	05 12 00-1 to 05 12 00-13
(SKA) SECTION 05 31 00	STEEL DECKING	05 31 00-1 to 05 31 00-6
(WRCP) SECTION 05 50 00	MISCELLANEOUS METAL FABRICATIONS	05 50 00-1 to 05 50 00-8
(WRCP) SECTION 05 81 00	PREFABRICATED EXPANSION JOINT COVERS	05 81 00-1 to 05 81 00-2

DIVISION 6**WOOD AND PLASTIC**

(WRCP) SECTION 06 10 00	ROUGH CARPENTRY	06 10 00-1 to 06 10 00-4
(WRCP) SECTION 06 20 00	FINISH CARPENTRY	06 20 00-1 to 06 20 00-4

DIVISION 7**THERMAL AND MOISTURE PROTECTION**

(WRCP) SECTION 07 13 10	SHEET APPLIED WATERPROOFING AND DRAINAGE COMPOSITE	07 13 10-1 to 07 13 10-4
(WRCP) SECTION 07 20 00	RIGID INSULATION	07 20 00-1 to 07 20 00-3
(WRCP) SECTION 07 21 10	FLEXIBLE INSULATION	07 21 00-1 to 07 21 00-2
(WRCP) SECTION 07 54 00	FULLY ADHERED THERMOPLASTIC POLYOLEFIN (TPO) ROOFING	07 54 00-1 to 07 54 00-8
(WRCP) SECTION 07 62 00	FLASHING AND SHEET METAL	07 62 00-1 to 07 62 00-3
(WRCP) SECTION 07 81 10	SPRAYED-ON FIREPROOFING	07 81 10-1 to 07 81 10-5
(WRCP) SECTION 07 84 00	FIRESTOPPING	07 84 00-1 to 07 84 00-4
(WRCP) SECTION 07 90 00	SEALANTS	07 90 00-1 to 07 90 00-7

DIVISION 8**DOORS AND WINDOWS**

(WRCP) SECTION 08 11 00	HOLLOW METAL DOORS AND FRAMES	08 11 00-1 to 08 11 00-9
(WRCP) SECTION 08 14 00	WOOD DOORS	08 14 00-1 to 08 14 00-5
(WRCP) SECTION 08 17 00	INTEGRATED DOOR OPENING ASSEMBLIES	08 17 00-1 to 08 17 00-11
(WRCP) SECTION 08 31 00	ACCESS DOORS	08 31 00-1 to 08 31 00-2
(WRCP) SECTION 08 41 10	ALUMINUM STOREFRONT FRAMING AND ENTRY DOORS	08 41 10-1 to 08 41 10-5
(WRCP) SECTION 08 58 31	EXCHANGE WINDOWS	08 58 30-1 to 08 58 30-2
(WRCP) SECTION 08 71 00	DOOR HARDWARE	08 71 00-1 to 08 71 00-39
(WRCP) SECTION 08 72 10	AUTOMATIC DOOR OPERATORS	08 72 10-1 to 08 72 10-6
(WRCP) SECTION 08 80 00	GLASS AND GLAZING	08 80 00-1 to 08 80 00-7

DIVISION 9**FINISHES**

(WRCP) SECTION 09 29 00	GYPSUM DRYWALL	09 29 00-1 to 09 29 00-8
(WRCP) SECTION 09 30 00	CERAMIC TILE	09 30 00-1 to 09 30 00-10
(WRCP) SECTION 09 51 00	ACOUSTICAL CEILINGS	09 51 00-1 to 09 51 00-5
(WRCP) SECTION 09 54 50	CURVED METAL CEILING	09 54 50-1 to 09 54 50-4
(WRCP) SECTION 09 65 00	RESILIENT FLOORING	09 65 00-1 to 09 65 00-6
(WRCP) SECTION 09 68 10	CARPET TILE	09 68 10-1 to 09 68 10-4
(WRCP) SECTION 09 91 00	FIELD PAINTING	09 91 00-1 to 09 91 00-9

DIVISION 10**SPECIALTIES**

(WRCP) SECTION 10 11 00	VISUAL DISPLAY BOARDS	10 11 00-1 to 10 11 00-3
(WRCP) SECTION 10 14 00	SIGNAGE	10 14 00-1 to 10 14 00-11
(WRCP) SECTION 10 14 43	LUMINOUS EGRESS PATH MARKING SYSEMS	10 14 43-1 to 10 14 43-7
(WRCP) SECTION 10 21 13	SOLID PLASTIC TOILET PARTITIONS	10 21 13-1 to 10 21 13-3
(WRCP) SECTION 10 28 00	TOILET ACCESSORIES	10 28 00-1 to 10 28 00-2
(WRCP) SECTION 10 35 00	FLAGPOLES	10 35 00-1 to 10 35 00-3
(WRCP) SECTION 10 41 00	BUILDING DIRECTORY	10 41 00-1 to 10 41 00-2
(WRCP) SECTION 10 50 00	LOCKERS	10 50 00-1 to 10 50 00-3
(WRCP) SECTION 10 52 00	FIRE PROTECTION SPECIALTIES	10 52 00-1 to 10 52 00-2

DIVISION 11**EQUIPMENT**

Not Used

DIVISION 12**FURNISHINGS**

(WRCP) SECTION 12 30 40	LAMINATE CLAD CASEWORK	12 30 40-1 to 12 30 40-7
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DIVISION 13**SPECIAL CONSTRUCTION**

Not Used

DIVISION 14**CONVEYING SYSTEM**

(WRCP) SECTION 14 21 50	ELECTRIC GEARED TRACTION PASSENGER ELEVATORS	14 21 50-1 to 14 21 50-13
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DIVISION 21**FIRE SUPPRESSION**

(CES) SECTION 21 00 00	FIRE PROTECTION SYSTEMS	21 00 00-1 to 21 00 00-13
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DIVISION 22**PLUMBING**

(CES) SECTION 22 05 00	SUMMARY OF THE WORK	22 05 00-1 to 22 05 00-7
(CES) SECTION 22 05 10	BASIC PLUMBING MATERIALS AND METHODS	22 05 10-1 to 22 05 10-5
(CES) SECTION 22 05 13	ELECTRICAL REQUIREMENTS FOR PLUMBING EQUIPMENT	22 05 13-1 to 22 05 13-4
(CES) SECTION 22 05 23	PLUMBING VALVES	22 05 23-1 to 22 05 23-3
(CES) SECTION 22 05 29	PLUMBING HANGERS AND SUPPORTS	22 05 29-1 to 22 05 29-2
(CES) SECTION 22 07 00	PLUMBING INSULATION	22 07 00-1 to 22 07 00-4
(CES) SECTION 22 10 00	PLUMBING PIPING	22 10 00-1 to 22 10 00-6
(CES) SECTION 22 11 19	PLUMBING SPECIALTIES	22 11 19-1 to 22 11 19-8
(CES) SECTION 22 11 23	PLUMBING PUMPS	22 11 23-1 to 22 11 23-3
(CES) SECTION 22 34 00	GAS WATER HEATERS	22 34 00-1 to 22 34 00-4
(CES) SECTION 22 40 00	PLUMBING FIXTURES	22 40 00-1 to 22 40 00-6
(CES) SECTION 22 51 00	PLUMBING BREECHINGS, CHIMNEYS AND STACKS	22 51 00-1 to 22 51 00-2
(CES) SECTION 22 70 00	NATURAL GAS PIPING SYSTEMS	22 70 00-1 to 22 70 00-5

DIVISION 23**HEATING, VENTILATING, AND AIR-CONDITIONING**

(CES) SECTION 23 05 00	SUMMARY OF THE WORK	23 05 00-1 to 22 05 00-5
(CES) SECTION 23 05 10	BASIC MECHANICAL MATERIALS AND METHODS	23 05 10-1 to 23 05 10-5
(CES) SECTION 23 05 13	ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT	23 05 13-1 to 23 05 13-3
(CES) SECTION 23 05 15	ADJUSTABLE FREQUENCY DRIVES	23 05 15-1 to 23 05 15-7
(CES) SECTION 23 05 19	MECHANICAL METERS AND GAUGES	23 05 19-1 to 23 05 19-4
(CES) SECTION 23 05 23	MECHANICAL VALVES	23 05 23-1 to 23 05 23-4
(CES) SECTION 23 05 29	MECHANICAL HANGERS AND SUPPORTS	23 05 29-1 to 23 05 29-3
(CES) SECTION 23 05 48	MECHANICAL VIBRATION AND SEISMIC CONTROLS	23 05 48-1 to 23 05 48-12
(CES) SECTION 23 05 93	TESTING, ADJUSTING AND BALANCING	23 05 93-1 to 23 05 93-5
(CES) SECTION 23 07 00	MECHANICAL INSULATION	23 07 00-1 to 23 07 00-10
(CES) SECTION 23 08 60	BUILDING AUTOMATION SYSTEMS (BAS) COMMISSIONING	23 08 60-1 to 23 08 60-12
(CES) SECTION 23 09 00	AUTOMATIC TEMPERATURE CONTROLS	23 09 00-1 to 23 09 00-15
(CES) SECTION 23 09 23	AIRFLOW INSTRUMENTS	23 09 23-1 to 23 09 23-4
(CES) SECTION 23 20 00	MECHANICAL HYDRONIC PIPING	23 20 00-1 to 23 20 00-5
(CES) SECTION 23 21 23	HYDRONIC PUMPS	23 21 23-1 to 23 21 23-4
(CES) SECTION 23 25 00	HVAC WATER TREATMENT	23 25 00-1 to 23 25 00-10
(CES) SECTION 23 31 00	METAL DUCTWORK	23 31 00-1 to 23 31 00-4
(CES) SECTION 23 33 00	DUCT ACCESSORIES - MECHANICAL	23 33 00-1 to 23 33 00-3

(CES) SECTION 23 34 00	POWER VENTILATORS AND KITCHEN HOODS	23 34 00-1 to 23 34 00-6
(CES) SECTION 23 36 00	AIR TERMINALS	23 36 00-1 to 23 36 00-4
(CES) SECTION 23 37 00	AIR OUTLETS AND INLETS	23 37 00-1 to 23 37 00-3
(CES) SECTION 23 37 23	INTAKE AND RELIEF VENTILATORS	23 37 23-1 to 23 37 23-7
(CES) SECTION 23 40 00	MECHANICAL AIR CLEANING	23 40 00-1 to 23 40 00-2
(CES) SECTION 23 51 00	MECHANICAL BREECHING, CHIMNEYS AND STACKS	23 51 00-1 to 23 51 00-2
(CES) SECTION 23 52 16	CONDENSING BOILERS	23 52 16-1 to 23 52 16-12
(CES) SECTION 23 64 00	AIR COOLED CHILLERS - MECHANICAL	23 64 00-1 to 23 64 00-4
(CES) SECTION 23 73 00	CENTRAL STATION AIR HANDLING UNITS	23 73 00-1 to 23 73 00-5
(CES) SECTION 23 75 00	OUTSIDE AIR UNITS	23 75 00-1 to 23 75 00-9
(CES) SECTION 23 82 39	UNIT HEATERS	23 82 39-1 to 23 82 39-5

DIVISION 26

ELECTRICAL

(CES) SECTION 26 05 00	GENERAL REQUIREMENTS	26 05 00-1 to 26 05 00-3
(CES) SECTION 26 05 19	CONDUCTORS AND CABLES	26 05 19-1 to 26 05 19-4
(CES) SECTION 26 05 26	GROUNDING AND BONDING	26 05 26-1 to 26 05 26-4
(CES) SECTION 26 05 29	HANGERS AND SUPPORTS	26 05 29-1 to 26 05 29-4
(CES) SECTION 26 05 33	RACEWAYS AND FITTINGS	26 05 33-1 to 26 05 33-6
(CES) SECTION 26 05 36	CABLE TRAYS	26 05 36-1 to 26 05 36-5
(CES) SECTION 26 05 37	DATA / COMMUNICATIONS RACEWAYS AND FITTINGS	26 05 37-1 to 26 05 37-2
(CES) SECTION 26 05 48	VIBRATION AND SEISMIC CONTROLS	26 05 48-1 to 26 05 48-5
(CES) SECTION 26 05 53	ELECTRICAL IDENTIFICATION	26 05 53-1 to 26 05 53-7
(CES) SECTION 26 22 00	LOW VOLTAGE TRANSFORMERS	26 22 00-1 to 26 22 00-4
(CES) SECTION 26 24 13	SWITCHBOARDS	26 24 13-1 to 26 24 13-8
(CES) SECTION 26 24 16	PANELBOARDS	26 24 16-1 to 26 24 16-7
(CES) SECTION 26 27 26	WIRING DEVICES	26 27 26-1 to 26 27 26-6
(CES) SECTION 26 28 13	FUSES	26 28 13-1 to 26 28 13-3
(CES) SECTION 26 28 16	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	26 28 16-1 to 26 28 16-5
(CES) SECTION 26 51 00	INTERIOR LIGHTING	26 51 00-1 to 26 51 00-5

DIVISION 27

COMMUNICATIONS

(CES) SECTION 27 11 00	MOUNTING ELEMENTS	27 11 00-1 to 27 11 00-2
(CES) SECTION 27 12 00	COMMUNICATIONS GROUNDING AND BONDING	27 12 00-1
(CES) SECTION 27 13 00	DATA AND VOICE INFRASTRUCTURE CABLING	27 13 00-1 to 27 13 00-6
(CES) SECTION 27 52 00	CATV SYSTEMS	27 52 00-1 to 27 52 00-6

DIVISION 28**ELECTRONIC SAFETY AND SECURITY**

(CES) SECTION 28 05 37	SECURITY DATA COMMUNICATIONS - DISTRIBUTED ANTENNA SYSTEM	28 05 37-1 to 28 05 37-3
(CES) SECTION 28 31 00	FIRE DETECTION AND ALARM	28 31 00-1 to 28 31 00-9

DIVISION 31**EARTHWORK**

(WRCP) SECTION 31 10 00	SITE CLEARING AND STRIPPING	31 10 00-1 to 31 10 00-3
(WRCP) SECTION 31 20 00	EARTHWORK	31 20 00-1 to 31 20 00-8
(WRCP) SECTION 31 25 00	EROSION AND SEDIMENTATION CONTROL	31 25 00-1 to 31 25 00-4

DIVISION 32**EXTERIOR IMPROVEMENTS**

(WRCP) SECTION 32 13 00	CONCRETE WALKS, STEPS AND PAVING	32 13 00-1 to 32 13 00-5
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DRAWINGS*INCLUDED BY REFERENCE***GENERAL**

G1.0	COVER SHEET / INDEX
G1.1	CODE SUMMARY
G1.2	GENERAL INFORMATION
G1.3	LOWER LEVEL LIFE SAFETY PLAN
G1.4	MAIN LEVEL LIFE SAFETY PLAN
G1.5	LEVEL 2 MECHANICAL LIFE SAFETY PLAN
G1.6	LEVEL 3 & LEVEL 4 LIFE SAFETY PLAN
G1.7	LEVEL 5 & LEVEL 6 LIFE SAFETY PLAN
G1.8	LEVEL 7 & LEVEL 8 LIFE SAFETY PLAN
G1.9	UL DESIGNS
G1.10	UL DESIGNS

CIVIL

-	EXISTING TOPOGRAPHIC SURVEY
-	EXISTING TOPOGRAPHIC SURVEY
-	EXISTING SITE SURVEY

LANDSCAPE

D-101	LANDSCAPE DEMOLITION PLAN
L-101	LANDSCAPE PLANTING PLAN
L-501	LANDSCAPE NOTES, SPECS, & DETAILS

ARCHITECTURAL

A1.0	LEVEL 0 – EXISTING & DEMOLITION FLOOR PLAN
A1.1	LEVEL 1- MAIN-EXISTING & DEMOLITION FLOOR PLAN
A1.2	LEVEL 2-MECHANICAL-EXISTING & DEMOLITION FLOOR PLAN -ROOF PLAN
A1.3	LEVEL 3 & LEVEL 4 – EXISTING & DEMOLITION FLOOR PLAN
A1.4	LEVEL 5 & LEVEL 6 – EXISTING & DEMOLITION FLOOR PLAN
A1.5	LEVEL 7 & LEVEL 8 – EXISTING & DEMOLITION FLOOR PLAN
A1.6	EXISTING & DEMOLITION MAIN ENTRY PLATFORM
A2.0	LEVEL 0 FLOOR PLAN
A2.1	LEVEL 1 – MAIN – FLOOR PLAN
A2.2	LEVEL 2 – MECHANICAL – FLOOR PLAN – ROOF PLAN
A2.3	LEVEL 3 & LEVEL 4 – FLOOR PLAN
A2.3A	LEVEL 3 & LEVEL 4 – FLOOR PLAN – ALTERNATE NO. 1
A2.4	LEVEL 5 & LEVEL 6 – FLOOR PLAN
A2.4A	LEVEL 5 – FLOOR PLAN – ALTERNATE NO. 1
A2.5	LEVEL 7 & LEVEL 8 – FLOOR PLAN
A2.6	MAINR ENTRANCE PLATFORM & RAM PLAN / DETAILS
A2.7	FLOOR PATTERN @ LEVEL 1 – MAIN
A3.1	EXISTING FLOOR PLAN
A4.1	SOUTH EXTERIOR ELEVATION
A4.2	NORTH EXTERIOR ELEVATION
A4.3	EAST & WEST EXTERIOR ELEVATION
A5.1	BUILDING SECTION
A7.1	ENLARGED TOILET PLANS / TOILET ELEVATIONS
A7.2	ENLARGED PLANS
A7.3	INTERIOR ELEVATIONS
A8.0	LEVEL 0 – EXISTING & DEMOLITION REFLECTED CEILING PLAN
A8.1	LEVEL 1 – MAIN – EXISTING & DEMOLITION REFLECTED CEILING PLAN
A8.2	LEVEL 2 – MECHANICAL – EXISTING & DEMOLITION REFLECTED CEILING PLAN
A8.3	LEVEL 3 & LEVEL 4 – EXISTING & DEMOLITION REFLECTED CEILING PLAN
A8.4	LEVEL 5 & LEVEL 6 – EXISTING & DEMOLITION REFLECTED CEILING PLAN
A8.5	LEVEL 7 & LEVEL 8 – EXISTING & DEMOLITION REFLECTED CEILING PLAN
A8.6	LEVEL 0 –REFLECTED CEILING PLAN
A8.7	LEVEL 1 – MAIN – REFLECTED CEILING PLAN
A8.8	LEVEL 2 – MECHANICAL – REFLECTED CEILING PLAN
A8.9	LEVEL 3 & LEVEL 4 – REFLECTED CEILING PLAN
A8.9A	LEVEL 3 & LEVEL 4 – REFLECTED CEILING PLAN – ALTERNATE NO. 1
A8.10	LEVEL 5 & LEVEL 6 – REFLECTED CEILING PLAN
A8.10A	LEVEL 5 – REFLECTED CEILING PLAN – ALTERNATE NO. 1
A8.11	LEVEL 7 & LEVEL 8 – REFLECTED CEILING PLAN
A8.12	REFLECTED CEILING DETAIL

A9.1	STAIR & ELEVATOR PLAN – LEVELS 0 THRU 6
A9.2	STAIR & ELEVATOR PLAN – LEVELS 7 THRU PENTHOUSE
A9.3	STAIR DETAILS
A9.4	STAIR & ELEVATOR SECTIONS
A10.1	PARTITIONS TYPES
A10.2	WINDOW DETAILS
A10.3	WINDOW DETAILS
A10.4	DOOR & FRAME TYPES / WINDOW TYPES/ HEAD & JAMB DETAILS
A11.1	DOOR SCHEDULE 0 THRU 3 LEVEL
A11.2	DOOR SCHEDULE 4 THRU 8 LEVEL
A11.3	ROOM FINISH SCHEDULE 0 THRU 4 LEVEL
A11.4	ROOM FINISH SCHEDULE 5 THRU 8 LEVEL

STRUCTURAL

S1.0	GENERAL NOTES, ABBREVIATIONS, DRAWING SYMBOL LEDGEND, INDEX
S2.0	LEVEL 0 (LOWER LEVEL) – DEMO & FLOOR SLAB REPAIR
S2.0A	LEVEL 0 (LOWER LEVEL) – STRUCTURAL FRAMING & NEW FLOOR PLAN
S2.1	LEVEL 1 (MAIN LEVEL) – DEMO & FLOOR SLAB REPAIR
S2.1A	LEVEL 1 (MAIN LEVEL) – STRUCTURAL FRAMING & NEW FLOOR PLAN
S2.2	LEVEL 2 (MECHANICAL LEVEL) – DEMO & FLOOR SLAB REPAIR
S2.2A	LEVEL 2 (MECHANICAL LEVEL) – STRUCTURAL FRAMING & NEW FLOOR PLAN
S2.3	LEVEL 3 (1 ST CELL BLOCK)
S2.4	LEVEL 4 (2 ND CELL BLOCK)
S2.5	LEVEL 5 (3 RD CELL BLOCK)
S2.6	LEVEL 6 (4 TH CELL BLOCK)
S2.7	LEVEL 7 (5 TH CELL BLOCK)
S2.8	LEVEL 8 (6 TH CELL BLOCK)
S2.9	ROOF FRAMING PLAN, ELEVATOR MACHINE FLOOR PLAN, ELEVATOR MACHINE ROOM, FRAMING PLAN
S3.1	ENLARGED PLANS
S3.1A	ENLARGED PLANS
S3.2	ENLARGED PLANS
S3.3	STEEL FRAMING PLAN FOR ROOF TOP MECHANICAL UNITS
S4.1	SECTION & DETAILS
S4.2	SECTION & DETAILS

FIRE PRTECTION

FP0.00	FIRE PROTECTION COVER SHEET
FP0.01	FIRE PROTECTION PENTRATIONS SHEET
FP0.1	FIRE PROTECTION PLAN LEVEL 0
FP1.1	FIRE PROTECTION PLAN LEVEL 1
FP2.1	FIRE PROTECTION PLAN LEVEL 2

FP3.1	FIRE PROTECTION PLAN LEVEL 3
FP4.1	FIRE PROTECTION PLAN LEVEL 4
FP5.1	FIRE PROTECTION PLAN LEVEL 5
FP6.1	FIRE PROTECTION PLAN LEVEL 6
FP7.1	FIRE PROTECTION PLAN LEVEL 7 & 8
FP8.1	FIRE PROTECTION PLANS ROOF
FP9.1	FIRE PROTECTION DETAILS

PLUMBING

P0.0.0	PLUMBING COVER SHEET
P0.0.1	PLUMBING PENETRATIONS SHEET
PD0.1	PLUMBING SEWER DEMO LEVEL 0
PD0.2	PLUMBING WATER DEMO LEVEL 0
PD1.1	PLUMBING SEWER DEMO LEVEL 1
PD1.2	PLUMBING WATER DEMO LEVEL 1
PD2.1	PLUMBING SEWER & WATER DEMO LEVEL 2
PD3.1	PLUMBING SEWER & WATER DEMO LEVEL 3
PD4.1	PLUMBING SEWER & WATER DEMO LEVEL 4, 5, & 6
PD5.1	PLUMBING SEWER & WATER DEMO LEVEL 7
PD6.1	PLUMBING SEWER & WATER DEMO LEVEL 8
PD7.1	PLUMBING ROOF DEMO
P0.1	PLUMBING SEWER PLAN LEVEL 0
P0.2	PLUMBING WATER PLAN LEVEL 0
P1.1	PLUMBING SEWER PLAN LEVEL 1
P1.2	PLUMBING WATER PLAN LEVEL 1
P2.1	PLUMBING SEWER PLAN LEVEL 2
P2.2	PLUMBING WATER PLAN LEVEL 2
P3.1	PLUMBING SEWER & WATER PLAN LEVEL 3
P4.1	PLUMBING SEWER & WATER PLAN LEVEL 4
P5.1	PLUMBING SEWER & WATER PLAN LEVEL 5
P6.1	PLUMBING SEWER & WATER PLAN LEVEL 6
P7.1	PLUMBING SEWER & WATER PLAN LEVEL 7
P8.1	PLUMBING SEWER & WATER PLAN LEVEL 8
P9.1	PLUMBING ROOF PLAN
P10.1	PLUMBING RISERS
P10.2	PLUMBING RAINWATER RISERS
P10.3	RAINWATER RISERS
P10.4	CONDENSATE RISERS
P11.1	PLUMBING DETAILS
P12.1	PLUMBING SCHEDULES

MECHANICAL

M0.0.01	MECHANICAL COVER
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MD0.01	MECHANICAL LEVEL 0 DEMO
MD1.01	MECHANICAL LEVEL 1 DEMO
MD2.01	MECHANICAL LEVEL 2 DEMO
MD3.01	MECHANICAL LEVEL 3 THRU 6 DEMO
MD4.01	MECHANICAL LEVEL 7 & 8 DEMO
MD5.01	MECHANICAL HIGH ROOF DEMO
M0.01	MECHANICAL LEVEL 0
M1.01	MECHANICAL LEVEL 1 DUCTWORK
M1.02	MECHANICAL LEVEL 1 PIPING
M2.01	MECHANICAL LEVEL 2 LOW ROOF
M2.02	MECHANICAL ROOM
M2.03	MECHANICAL ROOM ISOMETRIC
M3.01	MECHANICAL LEVEL 3 & 4 ALTERNATE 1
M3.02	MECHANICAL LEVEL 3 & 4
M4.01	MECHANICAL LEVEL 5 & 6 ALTERNATE 1
M4.02	MECHANICAL LEVEL 5 & 6
M5.01	MECHANICAL LEVEL 7 & 8
M6.01	MECHANICAL HIGH ROOF PLAN
M7.01	MECHANICAL DETAILS
M7.02	MECHANICAL DETAILS
M7.03	MECHANICAL DETAILS
M7.04	MECHANICAL DETAILS
M7.05	MECHANICAL UL DETAILS
M8.01	MECHANICAL SCHEDULES
M8.02	MECHANICAL SCHEDULES
 <u>ELECTRICAL</u>	
E0.00	ELECTRICAL COVER SHEET
ED0.01	ELECTRICAL POWER LEVEL 0 DEMO
ED0.02	ELECTRICAL LIGHTING LEVEL 0 DEMO
ED1.01	ELECTRICAL POWER LEVEL 1 DEMO
ED1.02	ELECTRICAL LIGHTING LEVEL 1 DEMO
ED2.01	ELECTRICAL POWER LEVEL 2 DEMO
ED2.02	ELECTRICAL LIGHTING LEVEL 2 DEMO
ED3.01	ELECTRICAL POWER & LIGHING LEVEL 3 DEMO
ED4.01	ELECTRICAL POWER & LIGHING LEVEL 4, 5, & 6 DEMO
ED5.01	ELECTRICAL POWER & LIGHING LEVEL 7 DEMO
ED6.01	ELECTRICAL POWER & LIGHING LEVEL 8 DEMO
ED7.01	ELECTRICAL POWER & LIGHING LEVEL ROOF DEMO
ED8.01	ELECTRICAL POWER & LIGHTING LEVEL PH DEMO
ED9.01	ELECTRICAL POWER RISER DEMO
ED9.02	ELECTRICAL TEL/COMM RISER DEMO
E0.01	ELECTRICAL POWER LEVEL 0

E0.02	ELECTRICAL LIGHTING LEVEL 0
E1.01	ELECTRICAL POWER LEVEL 1
E1.02	ELECTRICAL LIGHTING LEVEL 1
E2.01	ELECTRICAL POWER LEVEL 2
E2.02	ELECTRICAL LIGHTING LEVEL 2
E3.01	ELECTRICAL POWER & LIGHTING LEVEL 3
E3.01A	ELECTRICAL POWER & LIGHTING LEVEL 3 ALTERNATE 1
E4.01	ELECTRICAL POWER & LIGHTING LEVEL 4
E4.01A	ELECTRICAL POWER & LIGHTING LEVEL 4 ALTERNATE 1
E5.01	ELECTRICAL POWER & LIGHTING LEVEL 5
E5.01A	ELECTRICAL POWER & LIGHTING LEVEL 5 ALTERNATE 1
E6.01	ELECTRICAL POWER & LIGHTING LEVEL 6
E7.01	ELECTRICAL POWER & LIGHTING LEVEL 7
E8.01	ELECTRICAL POWER & LIGHTING LEVEL 8
E9.01	ELECTRICAL POWER & LIGHTING LEVEL ROOF
E10.01	ELECTRICAL POWER & LIGHTING LEVEL PH
E11.01	ELECTRICAL POWER RISER
E11.02	ELECTRICAL TEL/COMM RISER
E12.01	ELECTRICAL POWER DETAIL
E12.02	ELECTRICAL POWER DETAIL
E12.03	ELECTRICAL POWER DETAIL
E13.01	ELECTRICAL PANEL SCHEDULE
E13.02	ELECTRICAL PANEL SCHEDULE
E13.03	ELECTRICAL PANEL SCHEDULE
E13.04	ELECTRICAL PANEL & LIGHT SCHEDULE
E14.01	FIRE ALARM LEVEL 0
E14.02	FIRE ALARM LEVEL 1
E14.03	FIRE ALARM LEVEL 2
E14.04	FIRE ALARM LEVEL 3 & 4
E14.04A	FIRE ALARM LEVEL 3 & 4 ALTERNATE 1
E14.05	FIRE ALARM LEVEL 5 & 6
E14.05A	FIRE ALARM LEVEL 5 ALTERNATE 1
E14.06	FIRE ALARM LEVEL 7 & 8
E14.07	FIRE ALARM LEVEL ROOF & PENTHOUSE
E15.01	FIRE ALARM DETAIL
E15.02	FIRE ALARM DETAIL

END OF CONTENTS 00010

Guilford County Law Enforcement Center
401 W. Sycamore Street, Greensboro, NC 27401
Guilford County Law Enforcement Center Renovation

DOCUMENT 00311 – SCHEDULE OF VALUES

Division	Discription	Scheduled Amount
<u>DIVISION 0</u>		
Document 00821	SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT	\$ _____
<u>DIVISION 1</u>		
SECTION 01 10 00	SUMMARY	\$ _____
SECTION 01 21 00	ALLOWANCES	\$ _____
SECTION 01 23 00	ALTERNATES AND UNIT PRICES	\$ _____
SECTION 01 25 00	CONTRACT MODIFICATIONS PROCEDURES	\$ _____
SECTION 01 31 00	PROJECT COORDINATION	\$ _____
SECTION 01 31 50	PROJECT MEETINGS	\$ _____
SECTION 01 33 00	SUBMITTALS	\$ _____
SECTION 01 35 20	GENERAL PROJECT PROCEDURES	\$ _____
SECTION 01 41 00	SPECIAL INSPECTIONS	\$ _____
SECTION 01 42 10	REFERENCE STANDARDS AND DEFINITIONS	\$ _____
SECTION 01 45 00	QUALITY CONTROL/QUALITY ASSURANCE	\$ _____
SECTION 01 50 00	TEMPORARY FACILITIES	\$ _____
SECTION 01 63 00	PRODUCT SUBSTITUTION	\$ _____
SECTION 01 74 00	FINAL CLEANING	\$ _____
SECTION 01 75 00	DOCUMENTS AT PROJECT SITE	\$ _____
SECTION 01 78 10	PROJECT CLOSEOUT	\$ _____
SECTION 01 78 80	WARRANTIES AND BONDS	\$ _____
SECTION 01 83 00	EQUIPMENT MAINTENANCE AND OPERATIONS PROGRAM	\$ _____
<u>DIVISION 2</u>		
SECTION 02 22 00	SITE DEMOLITION	\$ _____
SECTION 02 22 10	SELECTIVE DEMOLITION	\$ _____
<u>DIVISION 3 - CONCRETE</u>		
SECTION 03 10 00	CONCRETE FORMWORK	\$ _____
SECTION 03 20 00	CONCRETE REINFORCEMENT	\$ _____
SECTION 03 25 00	ADHESIVE ANCHORS	\$ _____
SECTION 03 30 00	CAST-IN-PLACE CONCRETE	\$ _____
<u>DIVISION 4 - MASONRY</u>		
SECTION 04 06 00	MASONRY MORTAR	\$ _____
SECTION 04 20 00	UNIT MASONRY	\$ _____
<u>DIVISION 5 - METALS</u>		
SECTION 05 12 00	STRUCTURAL STEEL FRAMING	\$ _____
SECTION 05 31 00	STEEL DECKING	\$ _____
SECTION 05 50 00	MISCELLANEOUS METAL FABRICATIONS	\$ _____
SCHEDULE OF VALUES		

SECTION 05 81 00	PREFABRICATED EXPANSION JOINT COVERS	\$ _____
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DIVISION 6 - WOOD AND PLASTICS

SECTION 06 10 00	ROUGH CARPENTRY	\$ _____
SECTION 06 20 00	FINISH CARPENTRY	\$ _____

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07 13 10	SHEET APPLIED WATERPROOFING AND DRAINAGE COMPOSITE	\$ _____
SECTION 07 20 00	RIGID INSULATION	\$ _____
SECTION 07 21 10	FLEXIBLE INSULATION	\$ _____
SECTION 07 54 00	FULLY ADHERED THERMOPLASTIC POLYOLEFIN (TPO) ROOFING	\$ _____
SECTION 07 62 00	FLASHING AND SHEET METAL	\$ _____
SECTION 07 81 10	SPRAYED-ON FIREPROOFING	\$ _____
SECTION 07 84 00	FIRESTOPPING	\$ _____
SECTION 07 90 00	SEALANTS	\$ _____

DIVISION 8 - DOORS AND WINDOWS

SECTION 08 11 00	HOLLOW METAL DOORS AND FRAMES	\$ _____
SECTION 08 14 00	WOOD DOORS	\$ _____
SECTION 08 17 00	INTEGRATED DOOR OPENING ASSEMBLIES	\$ _____
SECTION 08 31 00	ACCESS DOORS	\$ _____
SECTION 08 41 10	ALUMINUM STOREFRONT FRAMING AND ENTRY DOORS	\$ _____
SECTION 08 58 31	EXCHANGE WINDOWS	\$ _____
SECTION 08 71 00	DOOR HARDWARE	\$ _____
SECTION 08 72 10	AUTOMATIC DOOR OPERATORS	\$ _____
SECTION 08 80 00	GLASS AND GLAZING	\$ _____

DIVISION 9 - FINISHES

SECTION 09 29 00	GYPSUM DRYWALL	\$ _____
SECTION 09 30 00	CERAMIC TILE	\$ _____
SECTION 09 51 00	ACOUSTICAL CEILINGS	\$ _____
SECTION 09 54 50	CURVED METAL CEILING	\$ _____
SECTION 09 65 00	RESILIENT FLOORING	\$ _____
SECTION 09 68 10	CARPET TILE	\$ _____
SECTION 09 91 00	FIELD PAINTING	\$ _____

DIVISION 10 - SPECIALTIES

SECTION 10 11 00	VISUAL DISPLAY BOARDS	\$ _____
SECTION 10 14 00	SIGNAGE	\$ _____
SECTION 10 14 43	LUMINOUS EGRESS PATH MARKING SYSTEMS	\$ _____
SECTION 10 21 13	SOLID PLASTIC TOILET PARTITIONS	\$ _____
SECTION 10 28 00	TOILET ACCESSORIES	\$ _____
SECTION 10 35 00	FLAGPOLES	\$ _____
SECTION 10 41 00	BUILDING DIRECTORY	\$ _____
SECTION 10 50 00	LOCKERS	\$ _____
SECTION 10 52 00	FIRE PROTECTION SPECIALTIES	\$ _____

DIVISION 12 - FURNISHINGS

SECTION 12 30 40	LAMINATE CLAD CASEWORK	\$ _____
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DIVISION 14 - CONVEYING SYSTEMS

SECTION 14 21 50	ELECTRIC GEARED TRACTION PASSENGER ELEVATORS	\$ _____
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DIVISION 21 – FIRE SUPPRESSION

SECTION 21 00 00	FIRE PROTECTION SYSTEMS	\$ _____
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DIVISION 22 - PLUMBING

SECTION 22 05 00	SUMMARY OF THE WORK	\$ _____
SECTION 22 05 10	BASIC PLUMBING MATERIALS AND METHODS	\$ _____
SECTION 22 05 13	ELECTRICAL REQUIREMENTS FOR PLUMBING EQUIPMENT	\$ _____
SECTION 22 05 23	PLUMBING VALVES	\$ _____
SECTION 22 05 29	PLUMBING HANGERS AND SUPPORTS	\$ _____
SECTION 22 07 00	PLUMBING INSULATION	\$ _____
SECTION 22 10 00	PLUMBING PIPING	\$ _____
SECTION 22 11 19	PLUMBING SPECIALTIES	\$ _____
SECTION 22 11 23	PLUMBING PUMPS	\$ _____
SECTION 22 34 00	GAS WATER HEATERS	\$ _____
SECTION 22 40 00	PLUMBING FIXTURES	\$ _____
SECTION 22 51 00	PLUMBING BREECHINGS, CHIMNEYS AND STACKS	\$ _____
SECTION 22 70 00	NATURAL GAS PIPING SYSTEMS	\$ _____

DIVISION 23 - MECHANICAL

SECTION 23 05 00	SUMMARY OF THE WORK	\$ _____
SECTION 23 05 10	BASIC MECHANICAL MATERIALS AND METHODS	\$ _____
SECTION 23 05 13	ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT	\$ _____
SECTION 23 05 15	ADJUSTABLE FREQUENCY DRIVES	\$ _____
SECTION 23 05 19	MECHANICAL METERS AND GAUGES	\$ _____
SECTION 23 05 23	MECHANICAL VALVES	\$ _____
SECTION 23 05 29	MECHANICAL HANGERS AND SUPPORTS	\$ _____
SECTION 23 05 48	MECHANICAL VIBRATION AND SEISMIC CONTROLS	\$ _____
SECTION 23 05 93	TESTING, ADJUSTING AND BALANCING	\$ _____
SECTION 23 07 00	MECHANICAL INSULATION	\$ _____
SECTION 23 08 60	COMMISSIONING OF BUILDING AUTOMATION SYSTEMS	\$ _____
SECTION 23 09 00	AUTOMATIC TEMPERATURE CONTROLS	\$ _____
SECTION 23 09 23	AIRFLOW INSTRUMENTS	\$ _____
SECTION 23 20 00	MECHANICAL HYDRONIC PIPING	\$ _____
SECTION 23 21 23	HYDRONIC PUMPS	\$ _____
SECTION 23 25 00	HVAC WATER TREATMENT	\$ _____
SECTION 23 31 00	METAL DUCTWORK	\$ _____
SECTION 23 33 00	DUCT ACCESSORIES	\$ _____
SECTION 23 34 00	POWER VENTILATORS	\$ _____
SECTION 23 36 00	AIR TERMINALS	\$ _____
SECTION 23 37 00	AIR OUTLETS AND INLETS	\$ _____
SECTION 23 37 23	INTAKE AND RELIEF VENT	\$ _____
SECTION 23 40 00	MECHANICAL AIR CLEANING	\$ _____
SECTION 23 51 00	MECHANICAL BREECHING, CHIMNEYS AND STACKS	\$ _____
SECTION 23 52 16	CONDENSING BOILERS	\$ _____
SECTION 23 64 00	AIR COOLED CHILLERS	\$ _____
SECTION 23 73 00	CENTRAL STATION AIR HANDLING UNITS	\$ _____
SECTION 23 75 00	OUTSIDE AIR UNITS	\$ _____

SECTION 23 82 39 UNIT HEATERS \$ _____

DIVISION 26 - ELECTRICAL

SECTION 26 05 00	GENERAL REQUIREMENTS	\$ _____
SECTION 26 05 19	CONDUCTORS AND CABLES	\$ _____
SECTION 26 05 26	GROUNDING AND BONDING	\$ _____
SECTION 26 05 29	HANGERS AND SUPPORTS	\$ _____
SECTION 26 05 33	RACEWAYS AND FITTINGS	\$ _____
SECTION 26 05 36	CABLE TRAYS	\$ _____
SECTION 26 05 37	DATA / COMMUNICATIONS RACEWAYS AND FITTINGS	\$ _____
SECTION 26 05 48	VIBRATION AND SEISMIC CONTROLS	\$ _____
SECTION 26 05 53	ELECTRICAL IDENTIFICATION	\$ _____
SECTION 26 22 00	LOW VOLTAGE TRANSFORMERS	\$ _____
SECTION 26 24 13	SWITCHBOARDS	\$ _____
SECTION 26 24 16	PANELBOARDS	\$ _____
SECTION 26 27 26	WIRING DEVICES	\$ _____
SECTION 26 28 13	FUSES	\$ _____
SECTION 26 28 16	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	\$ _____
SECTION 26 51 00	INTERIOR LIGHTING	\$ _____

DIVISION 27 - COMMUNICATION

SECTION 27 11 00	MOUNTING ELEMENTS	\$ _____
SECTION 27 12 00	COMMUNICATIONS GROUNDING AND BONDING	\$ _____
SECTION 27 13 00	DATA AND VOICE INFRASTRUCTURE CABLING	\$ _____
SECTION 27 52 00	CATV SYSTEMS	\$ _____

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

SECTION 28 31 00	FIRE DETECTION AND ALARM	\$ _____
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DIVISION 31 - EARTHWORK

SECTION 31 10 00	SITE CLEARING AND STRIPPING	\$ _____
SECTION 31 20 00	EARTHWORK	\$ _____
SECTION 31 25 00	EROSION AND SEDIMENTATION CONTROL	\$ _____

DIVISION 32 – EXTERIOR IMPROVEMENTS

SECTION 32 13 00	CONCRETE WALKS, STEPS AND PAVING	\$ _____
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END OF SECTION 00311

Guilford County Law Enforcement Center
401 W. Sycamore Street, Greensboro, NC 27401
Guilford County Law Enforcement Center Renovation

SECTION 01 21 00 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements governing allowances required ***when certain items are identified in the Contract Documents as allowances.***
 - 1. Allowances are established in lieu of additional requirements and to defer selection of actual materials, equipment, and demolition method to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.
 - 2. Unit-cost allowances.
 - 3. Quantity allowances.
 - 4. Contingency allowances.
- C. Related Sections include the following:
 - 1. Division 1 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders for allowances.
 - 2. Division 1 Section "Unit Prices" for procedures for using unit prices.
 - 3. Division 1 Section "Quality Requirements" for procedures governing the use of allowances for testing and inspecting.
 - 4. Divisions 2 through 33 Sections for items of Work covered by allowances.

1.3 SELECTION AND PURCHASE

- A. Fourteen (14) days after award of the Contract, advise Architect of the date when final selection and purchase of each materials, equipment, and demolition method described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain submittals for each allowance for use in making final materials and or demolition method selections. Include recommendations that are relevant to performing the Work.
- C. Purchase materials, equipment and demolition method selected from the designated supplier.

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

Guilford County Law Enforcement Center
401 W. Sycamore Street, Greensboro, NC 27401
Guilford County Law Enforcement Center Renovation

1.5 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 LUMP-SUM, UNIT-COST, AND QUANTITY ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner under allowance and shall include taxes, freight, and delivery to Project site.
- B. Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner under allowance shall be included as part of the Contract Sum and not part of the allowance.

- C. Include the following lump sum allowances:

1. The following lump sum allowances shall be included in the Base Bid. If the actual cost is more than or less the allowance, the Contract Price will be adjusted up or down accordingly when the actual cost is determined. Adjustments in the Contract Price will be made by Change Order in accordance with the General and Supplementary General Conditions of the Contract. Call allowances include all expenses associated with the work listed.

- | | | | |
|----|--------------------|--------------|--|
| a. | AT&T: | \$15,000.00 | |
| b. | Time Warner Cable: | \$5,000.00 | |
| c. | Security Cameras: | \$75,000.00 | (Allowance for security cameras, installation, testing, and training. (Cabling is provided by the contractor.)) |
| d. | Access Control: | \$200,000.00 | (Allowance for access control system, devices, installation, testing, and training. (Cabling is provided by the contractor.)) |
| e. | Area of Rescue: | \$30,000.00 | (Allowance for area of rescue or two-way communication-equipment and wiring for Levels 2 through 8. The exact location will be field coordinated.) |

- D. Include the following Quantity Allowances:

1. EXCAVATION AND OFFSITE DISPOSAL OF UNSUITABLE SOIL & REPLACEMENT WITH OFFSITE BARROW BACKFILL/FILL COMPACTED – The contractor shall include in the base bid removal of 500 cubic yards of unsuitable soil underlying partial areas of the building and pavement areas and replacement with suitable materials from offsite. (500 cu. yds)
2. EXCAVATION AND OFFSITE DISPOSAL OF UNSUITABLE SOIL & REPLACEMENT WITH STONE – The Contractor shall include in the base bid removal of 300 cubic yards of unsuitable soil underlying partial areas of the building foundation and replacement with well compacted aggregate base course (ABC) (300 cu. Yds.)
3. Applicable unit prices entered on the Contractor's bid form will be used to adjust the contract price in the event that less than or more than the specified quantity allowance is actually removed and replaced. Delivery tickets must be provided to verify all quantities delivered to the jobsite.

1.7 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.

Guilford County Law Enforcement Center
401 W. Sycamore Street, Greensboro, NC 27401
Guilford County Law Enforcement Center Renovation

- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins.
- D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.
- E. Contingency Allowance for the project shall be \$350,000.

1.8 TESTING AND INSPECTING ALLOWANCES

- A. Testing and inspecting allowances include the cost of engaging testing agencies, actual tests and inspections, and reporting results.
- B. The allowance does not include incidental labor required to assist the testing agency or costs for retesting if previous tests and inspections result in failure. The cost for incidental labor to assist the testing agency shall be included in the Contract Sum.
- C. Costs of services not required by the Contract Documents are not included in the allowance.
- D. At Project closeout, credit unused amounts remaining in the testing and inspecting allowance to Owner by Change Order.

1.9 UNUSED MATERIALS

- A. Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 - 1. If requested by Architect, prepare unused material for storage by Owner when it is not economically practical to return the material for credit. If directed by Architect, deliver unused material to Owner's storage space. Otherwise, disposal of unused material is Contractor's responsibility.

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

- A. In the event that allowances are issued, a schedule of Allowances shall be submitted with all pay requests to include Allowance No., Allowance Description as specified in relevant Division Section and as shown on Drawings.

END OF SECTION 01 21 00

SECTION 271300 DATA AND VOICE INFRASTRUCTURE CABLING

PART 1 - GENERAL

1.1 PURPOSE

- A. Section includes: Equipment, materials, labor and services to provide telephone and data distribution system including but not limited to:

1. Telephone and data cabling and terminations
2. Telecommunications outlets
3. Terminal blocks / cross connect systems
4. Installation and testing
5. Identification and labeling

NOTE: This building will have two (2) completely different tenants.

- B. The demark location shall be IT/Telephone 206. Include the cost of Spectrum to get to the demark point. NOTE: Verify with Owner prior to proceeding with contracts/installation to see if a different supplier is desired.

1.2 REFERENCES

- A. Design , manufacture, test and install telecommunications cabling networks per manufacturer's requirements and in accordance with NFPA-70 (National Electrical Code), state codes, local codes, requirements of authorities having jurisdiction and particularly the following standards:

1. ANSI/TIA/EIA-568 - Standard for Installing Commercial Building Telecommunications Cabling
2. ANSI/TIA/EIA Standards
 - a. ANSI/TIA/EIA-568-B.1 - Commercial Building Telecommunications Cabling Standard, Part 1: General Requirements
 - b. ANSI/TIA/EIA-568-B.2 - Commercial Building Telecommunications Cabling Standard, Part 2: Balanced Twisted Pair Cabling Components
 - c. ANSI/TIA/EIA-568-B.3 - Optical Fiber Cabling Components Standard
 - d. ANSI/TIA/EIA-569-A - Commercial Building Standard for Telecommunications Pathways and Spaces
 - e. ANSI/TIA/EIA-606(A) - The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
 - f. ANSI/TIA/EIA-607(A) - Commercial Building Grounding and Bonding Requirements for Telecommunications
 - g. ANSI/TIA/EIA-526-7 - Measurement of Optical Power Loss of Installed Single Mode Fiber Cable Plant
3. ANSI/NFPA 70, National Electrical Code.

1.3 INSTALLATION METHOD

- A. Contractor shall install cabling in accordance with the most recent edition of BICSI publications:

1. BICSI --Telecommunications Distribution Methods Manual
2. BICSI --Cabling Installation Manual

3. BICSI --LAN Design Manual
- B. Federal, state and local codes, rules, regulations and ordinances governing the work are as fully part of the specifications as if contained herein repeated or hereto attached.

1.4 PRODUCTS

A. Unshielded Twisted Pair (UTP) Cabling

Cabling for all WAP's, outlets, security, access control, patch cables, etc.:

1. Category 6 Cabling Horizontal cabling shall be 23 AWG, 4-pair UTP, UL/NEC CMP rated, with a blue plenum-rated PVC jacket. Individual conductors shall be FEP insulated. Cable jacketing shall be lead-free.
2. Cable shall meet the performance requirements for standard Category 6 performance requirements. Cable shall be supplied on wooden reels or in CommPak box. Cable shall be UL listed under file number E138034.
3. Verified Category 6 U/UTP Cable, plenum, blue jacket, 4 pair count,

B. Fiber Optic Cable

1. 12 strand, 50/125µm multi-mode, interlocking armored, OFNP fiber optic cable shall be installed from the Main Distribution Closet (MDF) to each Intermediate Distribution Closet (IDF). Fiber optic cable shall be Corning P/N 012-C-88-33-31-A3 or equivalent. Acceptable equivalents are as manufactured by Systimax or Commscope.
2. Maximum attenuation: Minus 2.25 db/km at 850 nm; minus 12.0 db/km at 1300 nm.
3. Minimum modal bandwidth: 160 MHZ/km at 850nm; 500MHZ at 1300nm.

D. Jacks and Jack Assemblies

1. Modular, color coded RJ-45 receptacle units with integral IDC type terminals.
2. All modular jacks shall be wired to the T568B wiring pattern.
3. Modular jacks shall be constructed with a housing of polyphenylene oxide, 94V-0 rated.
4. Modular jacks shall be terminated using a 110-style pc board connector (made of 94V-0 rated polycarbonate), color-coded for both T568A and T568B wiring. The 110 connector shall terminate 22-26 AWG solid or 20-26 AWG stranded conductors with a maximum insulation diameter of .050 inches.
5. The modular jack contacts shall be plated with a minimum of 50 micro inches of gold in the contact area and a minimum of 150 micro inches of tin-lead in the solder area over a 50 micro inch minimum nickel under plate.
6. Modular jacks shall be compatible with panel thicknesses of .058" - .063".
7. Modular jacks shall snap into a .790" X .582" opening.
8. Modular jacks shall be UL Listed under file number E81956.

E. Patch Cords:

1. All patch cords shall be manufactured by the same company as that of termination equipment.
2. Copper: 7' length, terminated with RJ-45 plug at each end of station cable. Color code shall match horizontal cabling. Provide one for each data and voice outlet shown on plans. In addition, provide one for every terminated port in patch panels using the following guidelines:
 - a. 3' Data and voice cables – 50% of overall quantity
 - b. 5' Data and voice cables – 20% of overall quantity
 - c. 7' Data and voice cables – 15% of overall quantity
 - d. 10' Data and voice cables – 15% of overall quantity
3. Fiber: LC to ST terminations, 3 meters in length. Provide one for each fiber pair.

4. Provide 5% spare for each length of total number of copper and fiber cables indicated above.
- F. Workstation Outlets
1. Single gang, sloped, non-metallic mounting plate with four (4) openings, Panduit P/N UICFPSE4I@, or equivalent, containing the following devices:
 - a. Data outlet – 8 pin, modular, category 5E, un-keyed, blue, pinned to T568B standards. Panduit P/N CJ5E88TGBU or equivalent.
 - b. Voice outlet – Same as data outlet except white color
 - c. Blank opening – Panduit P/N CMBIW-X or equivalent.
 - d. Machine printed adhesive tape labels identifying circuits.
 - e. Jacks: 45 degree angled in dedicated hooded faceplates.
 2. In any location where there are 5 or more network outlets, the faceplate shall be double gang Panduit P/N UICFPSE8IW-2G or equivalent.
 3. The outlet faceplates used in the floor boxes shall be 4 port Wiremold or equivalent.
- G. Workstation Outlets in Raceways:
1. Single gang, horizontal sloped, non-metallic faceplates, Panduit P/N UICFPHSE4IW or equivalent.
 2. The faceplates that shall be used in floor placed raceways shall be 4 port horizontal faceplates, Panduit P/N CFPHSL4IW or equivalent.
- H. Identification Products
1. Manufacturers:
 - a. Brady Worldwide
 - b. Hellermann Tyton
 - c. Kroy, LLC
 - d. Panduit Corporation
 2. Comply with TIA/EIA-606-A, class 3.
 3. Cable labels: Self adhesive vinyl or vinyl-cloth wraparound tape markers, machine printed with alphanumeric cable designations.
- I. Consolidation Products
1. For transmitting from flooded cable to category 6 CMP cable, a consolidation point will be used.
- J. Patch Panels and Patch Cords
1. 19 inch, rack mountable, 48 port, 8 pin, 110 style to insulation displacement connector (IDC) meeting Category 6 performance standards and pinned to T568B standards: Panduit P/N DP48688TP or equivalent.
 2. Rack end patch cords shall be category 6 and be provided in the following percentage of overall quantity:
 - a. 3' Data and voice cables – 50% of overall quantity
 - b. 5' Data and voice cables – 20% of overall quantity
 - c. 7' Data and voice cables – 15% of overall quantity
 - d. 10' Data and voice cables – 15% of overall quantity
 3. Station end patch cords shall be category 6 and be seven (7) feet in length. Provide enough patch cables for the new data drops.
 4. Fiber patch cords shall be LC to ST, 3 meters in length.
- K. Cable Management
1. Install one, 19 inch, two rack space horizontal cable manager (Panduit P/N WMP1E or equivalent) with front and rear cable management and hinged covers below each patch panel.
 2. Install two, 83" vertical cable managers (Panduit P/N WMPV45E or equivalent) with front and rear cable management on the 7' equipment racks.

1.5 SOURCE QUALITY CONTROL

- A. UTP Cable Verification of Performance: Test every cable package or reel at factory to verify that the cable complies with TIA/EIA-568-B.2 requirements.

1.6 INSTALLATION

- A. Standards: Comply with BICSI TCI, TIA/EIA-568-B.1, TIA/EIA-568-B.2, TIA/EIA-568-B.3 and TIA/EIA-569-A.
- B. Application:
 - 1. Horizontal Cable: Use UTP category 6 cable for runs between wiring closet and workstation outlets.
 - a. Terminate data cabling in dedicated data, rack-mounted patch panels.
 - b. Terminate voice cabling in dedicated voice, rack mounted patch panels. UTP category 6 cable for runs between wiring closet and all WAP's and smart TV's.
 - 2. Fiber Cable: Use 12 strand 50/125µm multi-mode, interlocking armored, OFNP cable. Fiber optic cable shall be installed from the street to the Main Distribution Closet (MDF) to each Intermediate Distribution Closet (IDF). **NOTE:** The building has two (2) completely separate tenants. Provide SEPARATE fiber optic cable extending from the street up to Floor Levels 3, 4, and 5. This is for the Probation and Parole area which is a State agency. Provide a separate fiber optic cable extending from the street up to the Floor Level 8. This will be for Guilford County. These fiber cables shall run up through and connect to the data closets on each level.
- C. Receive, check, unload, handle, store and adequately protect equipment and materials to be installed as part of the contract. Store materials in areas as directed by the owner's representative. Include delivery; unloading; setting in place; fastening to walls, floors, ceilings or other structures where required; interconnecting wiring of system components; equipment alignment and adjustment and other related work whether or not expressly defined herein.
- D. Install materials and equipment in accordance with applicable standards, code requirements and recommendations of national, state and local authorities having jurisdiction, the National Electrical Code and manufacturer's printed instructions.
- E. Adhere to manufacturer's published specifications for pulling tension, minimum bend radii and sidewall pressure when installing cables.
 - 1. Where manufacturer does not provide bending radii information, minimum bending radius shall be 15 times the cable diameter for fiber optic cable and 4 times the cable diameter for category 5E UTP cable. Arrange and mount equipment and materials in a manner acceptable to the designer and the owner.
- F. Installation shall conform to the following basic guidelines:
 - 1. Use of approved wire, cable and wiring devices
 - 2. Neat and uncluttered wire terminations
- G. Attach cable to permanent structure with suitable attachments at intervals of 48 to 60 inches. Support cables installed above removable ceilings. Tie wrapping cable to the building steel structure, the ceiling grid or work by other trades will not be permitted. Use cable supporting methods such as beam clamps with "J" hooks or other UL approved materials.

- H. Any tie wraps used in return air plenums must be approved for the purpose. Tie wraps used in plenum spaces shall be Panduit P/N PLT3S-M or equivalent. Tie wraps used below ceiling shall be Velcro.
- I. Install adequate support structures for 10' of service slack at the TR.
- J. Install cables in one continuous run. Splices will not be permitted.
- K. Provide 3' service loop for all cables in outlet at conduit stub-up. Provide 10' service loop at each data rack and/or cabinet.
- L. Slack optical fiber shall be neatly coiled within the fiber termination panel. No slack loops shall be allowed external to the fiber panels.

1.7 IDENTIFICATION

- A. Labeling shall conform to ANSI/TIA/EIA-606(A) standards, class 2. In addition, provide the following:
 - 1. Label each outlet with permanent self-adhesive labels with minimum 3/16 inch high characters.
 - 2. Use labels on the face of data patch panels. Provide facility assignment records in a protective cover at each telecommunications closet location that is specific to the facilities terminated therein.
 - 3. Labels shall be machine printed. Hand lettered labels shall not be acceptable.

NOTE: ALL EXISTING CABLES MUST BE REMOVED. VERIFY CABLES DO NOT SERVE NEW JAIL OR THE UNDERGROUND PASSAGEWAY PRIOR TO REMOVAL.

There appears to be two (2) cables that were pulled out of a conduit in the main electrical room. Contractor shall trace out and verify what these serve. Due to the code violation- this must be corrected by removing/repulling/etc. as necessary and installing junction box(es) as required. Clearly label any existing cables that must remain. If cables only serve the building being renovated, they shall be removed at the appropriate time.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents:
 - 1. Faceplates: One of each type for every 25 outlets installed, but no less than one.

1.9 TESTING

- A. UTP Cabling
 - 1. All category 5E drops are to be tested without failures using a level III tester according to standards of TIA/EIA-568-B. Test all data and voice horizontal and riser cables to minimum of 350MHZ.
 - 2. Test report for each cable shall include cable ID and length, attenuation, NEXT and ACR for each pair. Report must also list the cable as passing CAT 5E test or certification.
 - 3. Provide a summary report listing every copper cable by ID and include cable length, worst pair NEXT and certification status. Summary reports should include MDF/IDF association and architectural room number.
 - 4. All category 6 requirements are the same as 5E using the most current TIA standard (including draft or published Cat 6 requirements.).

- B. Fiber Optic Cabling
 - 1. Fiber optic cables shall be tested in accordance with EIA/TIA-568-B.3. Tests shall be conducted per strand, end to end. Maximum db loss shall be 2.25 for all backbone fiber cables. Maximum db loss shall be 4.0 for all fiber connecting buildings.
 - 2. Certify compliance with test parameters and manufacturer's written recommendations. Test optical performance with OTDR.
 - 3. Test report shall include cable ID, cable length and db loss at 850nm. Report must list the cable as passing the maximum db losses noted above.
 - 4. Provide a summary report listing every fiber cable by ID and include cable length, db loss and certification status. Summary reports for indoor fiber should include MDF/IDF association and architectural room number.
- C. Remove and replace cabling where test results indicate that it does not comply with specified requirements.
- D. Re-test and inspect cabling to determine compliance of replaced or additional work with specified requirements.
- E. Provide both hard and electronic copies of all test results as directed in this document. This documentation shall be provided to the owner as soon as available, at least a week prior to final inspection.

END OF SECTION 271300

SECTION 275200 CATV SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. New CATV service shall be provided. The electrical contractor will be required to furnish and install all new CATV outlets, cabling, amplifiers, attenuators, splitters, taps, etc., as required to serve new outlets shown on plans.
- B. It is the purpose of this specification to require the furnishing of the highest quality materials, equipment and workmanship available to fulfill the requirements of the work specified herein. Provide all labor, equipment, supplies, materials and incidentals and all operations necessary for a fully operational, tested and completed installation of a CCTV system in complete accordance with the contract documents.
- C. The demark location shall be IT/Telephone 206. Include the cost of Spectrum TWC cable supplier to get to the demark point. NOTE: Verify with Owner prior to proceeding with contracts/installation to see if a different supplier is desired.

1.2 PERMITS AND INSPECTIONS

- A. Obtain and pay for all permits and inspections required by all legal authorities and agencies having jurisdiction for the work.

1.3 SUBMITTALS

- A. Prior to proceeding with the work, provide a complete schedule of all equipment and materials to be furnished for the work. Accompanying the schedule shall be manufacturer's specification or cut sheets for all major components listed in Part 2 of this specification.
 - 1. Calculations: complete calculations documenting compliance with signal level specifications.
 - 2. Product Data: Include data on features, ratings and performance for each component listed.
 - 3. Cabinets & Assemblies: Complete scaled drawings of all equipment racks, consoles, special assemblies, etc. Each drawing shall show all equipment with its manufacturer and model number.
- B. At Project Completion:
 - 1. As-built drawings: Prior to final acceptance, provide one, complete, bound, full size set of scaled architectural floor plans with the installer's border sheet showing final device and equipment locations and routing of backbone and distribution trunk cabling. All splitter locations shall be shown on the as-builts. Copies of project construction documents or details there from may not be part of the as-builts. As-builts for the integrated communication system, data infrastructure system and CATV system shall be bound together. Provide an electronic copy of as-builts in the submittal.
 - 2. Operation and maintenance manuals: Prior to final acceptance, provide three complete sets of operation and maintenance manuals for the system. The operation manual shall contain all instruction necessary for the proper operation of the installed system and complete manufacturer's instructions.
 - 3. The maintenance manual shall contain all proof of performance information as required in Section 3, all manufacturer's maintenance information and copies of non-proprietary computer programs and system set-up disks documenting all programmable features for the installed system.

1.4 DEFINITION OF TERMS

- A. CATV: Verify with Owner
- B. A/V: Audio/Video

1.5 QUALITY ASSURANCE

- A. General: All equipment and materials required for the installation under these specifications shall be new (less than one (1) year from date of manufacture) and without blemish or defect.
- B. Specific: Each major component of equipment shall have the manufacturer's name, address and model number on a plate securely affixed in a conspicuous place. NEMA code ratings, UL label or other data which is die-stamped into the surface of the equipment shall be easily visible.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. All CATV distribution equipment shall be manufactured by Blonder Tongue Laboratories or equivalent.

2.2 SINGLE SOURCE RESPONSIBILITY

- A. Except where specifically note otherwise, all equipment supplied for the CATV system shall be the standard product of a single manufacturer of known reputation and experience in the industry. The systems contractor shall have attended the manufacturer's sales/design, installation and service schools. Certificates of this training shall be provided with the proposal.

2.3 TV/VIDEO DISTRIBUTION

- A. The system shall be capable of adjacent channel 750 MHz, 116 channel TV distribution. Initially wire the system for twenty (20) channels as shown on the line drawings. The use of strip amplifiers and / or channel elimination filters to provide the initial number of channels required shall not be acceptable.
- B. General: Provide television signal distribution systems of types, performances, capabilities and channels/frequencies as required by the owner. Provide RF amplifiers, modulators, splitters, taps, signal combiners and other components as required for a complete installation. Except as otherwise noted, provide manufacturer's standard television distribution system components as indicated by the published product information, designed and constructed as recommended by the manufacturer. Provide a television distribution system with functional and construction features as specified herein.
- C. Signal Level: Visual carrier level at each TV outlet at channel 78 (547.25 MHz) shall be 0 to +10dBmV. Visual carrier level at each TV outlet at channel 2 (55.25 MHz) shall be 0 to +10 dBmV.
- D. Taps: Provide radiation proof directional taps as required. The radiation proof directional taps must meet the following minimum specifications:
 - 1. Radiation shielding: -100 db

2. Bandwidth: 54-1000 MHz
 3. All open ports of all taps shall be terminated into a 75 ohm load.
- E. Splitters: Provide splitter(s) as required. Each splitter must meet the following minimum specifications:
1. Radiation shielding: -80 db
 2. Bandwidth: 54-1000 MHz
 3. Isolation: 20 db minimum
 4. All open parts of all splitters shall be terminated into a 75 ohm load.
- F. Combiner: Provide combiner(s) as required: Each combiner shall meet the following minimum specifications:
1. Frequency range: 54-890 MHz
 2. Flatness: +/- 0.5 db
- G. Four-way directional coupler-type taps shall be provided as required for signal distribution. The taps shall be fully shielded and in compliance with FCC radiation rules. All connections to the unit shall be by standard 'F' type connectors. The taps shall be available in isolation values from 11 db to 35 db.
- H. Provide equalizers as required: The system shall provide for a reverse tilt of no more than 9 db differential. Line equalizers shall be rated to 750 MHz. They shall have a VSWR of no more than 1.2. The frequency response shall be within 0.7 db.
- I. Connectors: Provide connectors as required: Each connector shall meet the following minimum specifications:
1. One piece construction
 2. Integral crimp sleeve
- J. Outlets: Provide outlets as shown on drawings: Each outlet shall meet the following minimum specifications:
1. Each outlet location shown on the drawings shall consist of a single gang broadband receptacle equal to Blonder Tongue model V-1GF-FT or equivalent.
 2. Outlets shall be installed in a lay-in ceiling plate furnished by the general contractor unless noted otherwise.
- K. TV system cabling:
1. UL listed: CATV
 2. Type: Coaxial, black in color
 - a. Plenum 500 (1/2" coaxial), Commscope 2312K or equivalent
 - b. Burial 500 (1/2" coaxial), Commscope P3-500JCASS or equivalent
 - c. Plenum Series 6, Commscope 2275K or equivalent
 - d. Flooded Series 6, Commscope 5728 or equivalent
 - e. Plenum Series 11, Commscope 2285K or equivalent
 - f. Burial Series 11, Commscope 5914 or equivalent
 3. Nominal impedance: 75 ohm
 4. Center conductor: 18 AWG bare copper
 5. Shield: Aluminum foil and 60% aluminum braid

2.4 EQUIPMENT CABINETS

- A. Distribution Cabinets: Freestanding, modular steel units designed for intended use and coordinated with dimension of units to be supported.
1. Approximate module dimensions: 84"H x 22"W x 36"D
 2. Finish: Black baked polyester powder coat
 3. See plans for additional requirements. All equipment cabinets used on project shall

- products of the same manufacturer and the same type.
4. All cabinet configurations shall be verified with the owner prior to installation.

PART 3 - EXECUTION

3.1 GENERAL

- A. Perform the work in accordance with acknowledged industry and professional standards and practices and the procedures specified herein.
- B. Furnish and install all materials, devices, components and equipment for a complete operational system.
- C. Maintain a competent supervisor and supporting technical personnel acceptable to the owner and the project engineer during the entire installation. Change of the supervisor during the project shall not be acceptable without prior written approval from the owner and the project engineer.
- D. Coordinate all work with those of related trades. In the event of any conflicts, delayed or improper preparatory work by others, notify the general contractor.

3.2 INSTALLATION OF SYSTEMS

- A. Device locations: Locate all apparatus requiring adjustments, cleaning or similar attention so that it is accessible for such attention. Equipment racks shall be positioned to permit full access for operation and service.
- B. Blank and Custom Panels: Finish of blank panels and custom assembly panels shall match adjacent equipment panels.
- C. Marking: Switches, connectors, jacks, receptacles, outlets, cables and cable terminations shall be logically and permanently marked. Custom panel nomenclature shall be engraved, etched or screened.
- D. Environment: The equipment specified herein is designed to operate in environments of normal humidity, dust and temperature. Protect equipment and related wiring during installation where extreme environmental conditions can occur.

3.4 CLEANING

- A. Clean all junction and terminal box interiors thoroughly before installing plates, panels or covers.

3.5 WIRING METHODS & PRACTICES

- A. Identification: All wires shall be permanently identified at each wire terminal by marking with "E-Z" tape marker or equivalent.
- B. Terminal blocks: All terminal block connections shall be readily accessible. Spare terminal blocks equivalent to 10% of those in actual use shall be provided.
- C. Pulling Cable: Do not pull wire or cable through any box fitting or enclosure where a change of raceway alignment occurs. Do not bend conductors to less than the recommended radius. Employ temporary guides, sheave, rollers and other necessary items to protect cables from excess tension, abrasion or damaging bending during installation.

- D. Cable tie: Form in a neat and orderly manner all conductors in enclosures and boxes, wireways and wiring troughs, providing circuit and conductor identification. Tie as required using Panduit P/N PLT35-M or equivalent. Limit spacing between ties to six inches and provide circuit and conductor identification at least once in each enclosure.
- E. Service loops: Provide ample service loops at each termination so that plates, panels and equipment can be demounted for service and inspection.
- F. Wiring harness:
 - 1. All wires and cables used in assembling custom panels and equipment racks shall be formed into harnesses which are tied and supported in accordance with accepted engineering practice.
 - 2. Harnessed cables shall be formed in either a vertical or horizontal relationship to equipment, controls, components or terminations.

3.6 EQUIPMENT RACKS

- A. General: The equipment racks shall be considered as custom assemblies and shall be assembled, wired and tested in a properly equipped shop maintained by the contractor. Assembly of racks on-site shall not be permitted.
- B. Identification: All terminal blocks, rack mounted equipment and wall mounted systems shall be clearly and logically labeled as to their function, circuit or system as appropriate. Labeling on manufactured equipment shall be engraved plastic laminate with white lettering on a black or dark background that is similar to the panel finish. Secure using machine screws.
- C. All cabinet configurations shall be verified with the owner prior to installation.

3.7 ACCEPTANCE TESTING

- A. The acceptance testing shall be performed by the owner and the owner's agent. Coordinate this period so that free access, work lighting and electrical power is available on site.
- B. Be prepared to verify the performance of any portion of the system by demonstration, listening and viewing tests and measurements.
- C. Make additional mechanical and electrical adjustments within the scope of work and which are deemed necessary by the owner as a result of the acceptance test.

3.8 SYSTEM DOCUMENTATION

- A. Prior to final acceptance tests, submit to the engineer, three copies of an operating and maintenance manual for the system that has been installed. These manuals shall be used during the final acceptance testing of the system. Each manual shall contain the following information:
 - 1. As-built drawings
 - 2. Operations and maintenance manuals
 - 3. Single line diagrams showing levels throughout the system and impedances.

3.9 TRAINING AND INSTRUCTION

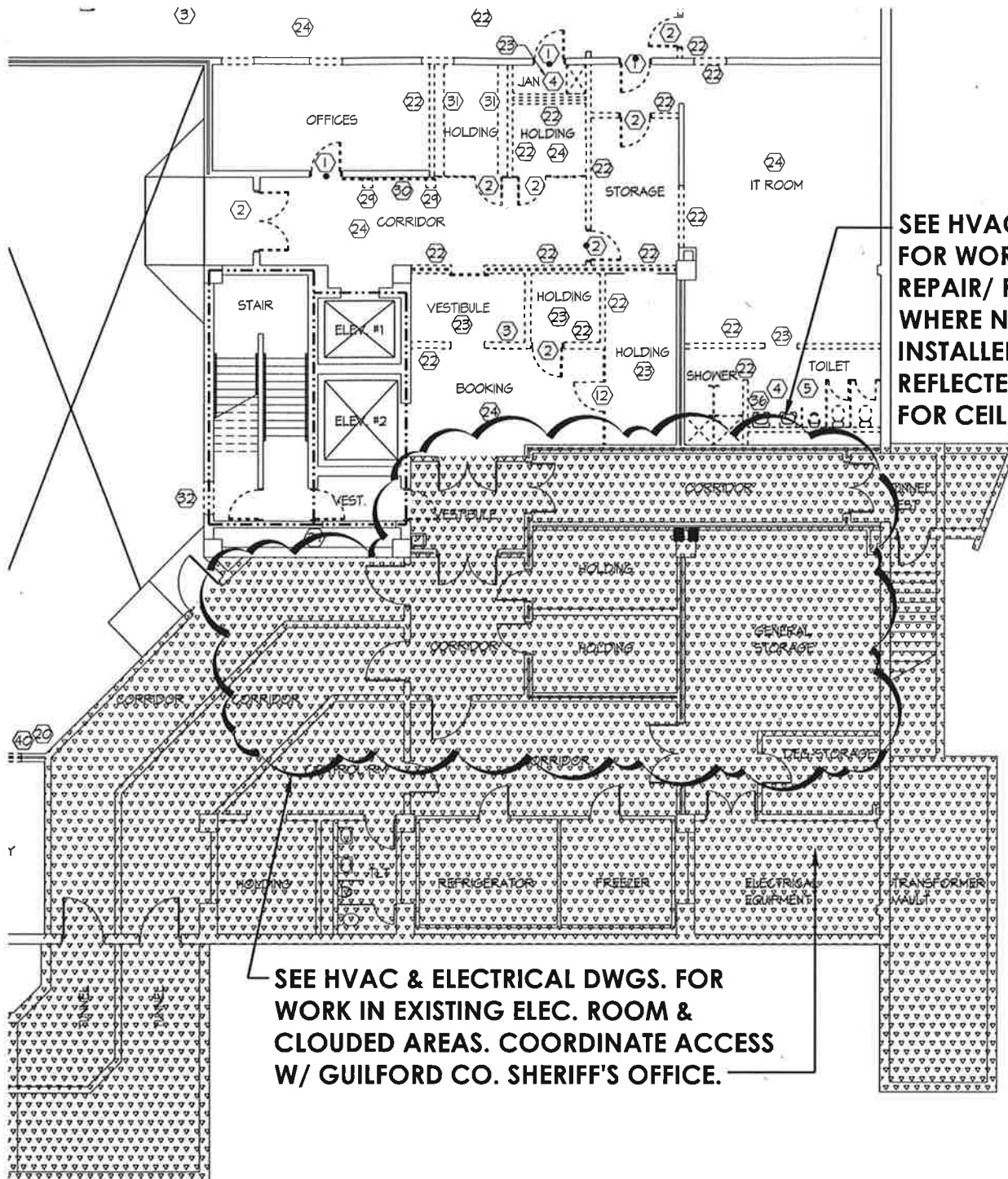
- A. The contractor shall provide a minimum of forty (8) hours of training to the faculty and staff of the school utilizing training aids and written instructions.

4.0 WARRANTY

- A. The contractor shall guarantee all components and labor for the work defined in this specification for a period of one year after final acceptance by the owner. The following conditions shall apply:
1. The contractor shall provide service within eight (8) hours, after notification by the owner or his representative within the hours of 8:00AM to 5:00PM, Monday through Friday. Service request forms shall be supplied to the owner and the faxing or mailing of such a request form shall constitute notification by the owner as a service request.
 2. The contractor shall provide two "preventative maintenance" service calls, spaced six months apart, for cleaning of all source devices and overall inspection of the ICS system.

END OF SECTION 275200





SEE HVAC & ELECTRICAL DWGS. FOR
WORK IN EXISTING ELEC. ROOM &
CLOUDED AREAS. COORDINATE ACCESS
W/ GUILFORD CO. SHERIFF'S OFFICE.

1026 LEVEL 0 - EXISTING & DEMOLITION FLOOR PLAN 1/16"=1'-0"

BP000496



walterrobbs
ARCHITECTURE + INTERIORS + PLANNING

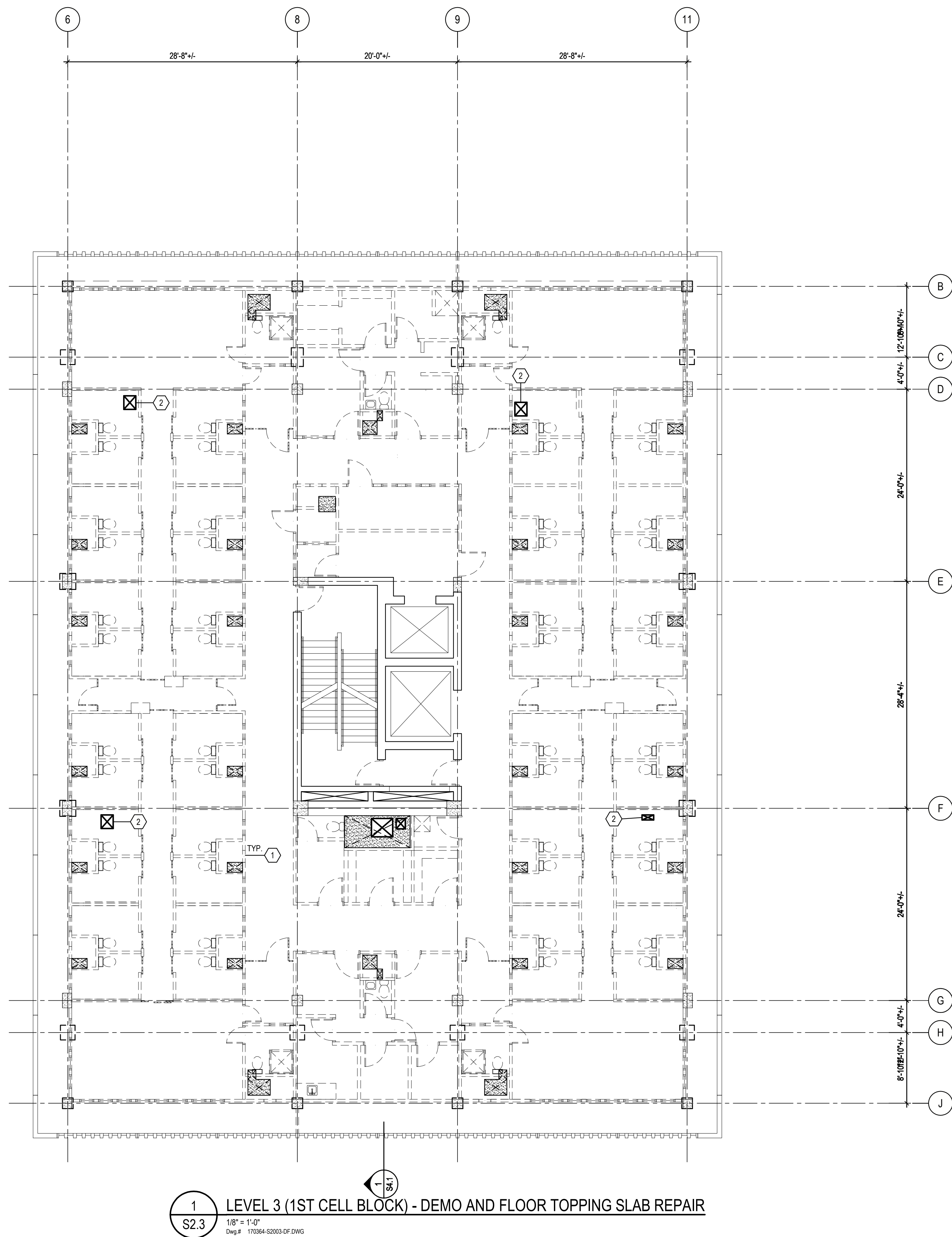
530 NORTH TRADE STREET, SUITE 301
WINSTON-SALEM, NORTH CAROLINA 27101 P 336.725.1371

Project: GUILFORD COUNTY LAW
ENFORCEMENT DETENTION CTR
401 W. SYCAMORE STREET
GREENSBORO, NC 27401

Related Doc.: A1.0

Consultant:

Project No: 17-496
Issue Date: 07-19-2018
Drawing No: 2 OF 2
Bulletin No: ADD-2-2



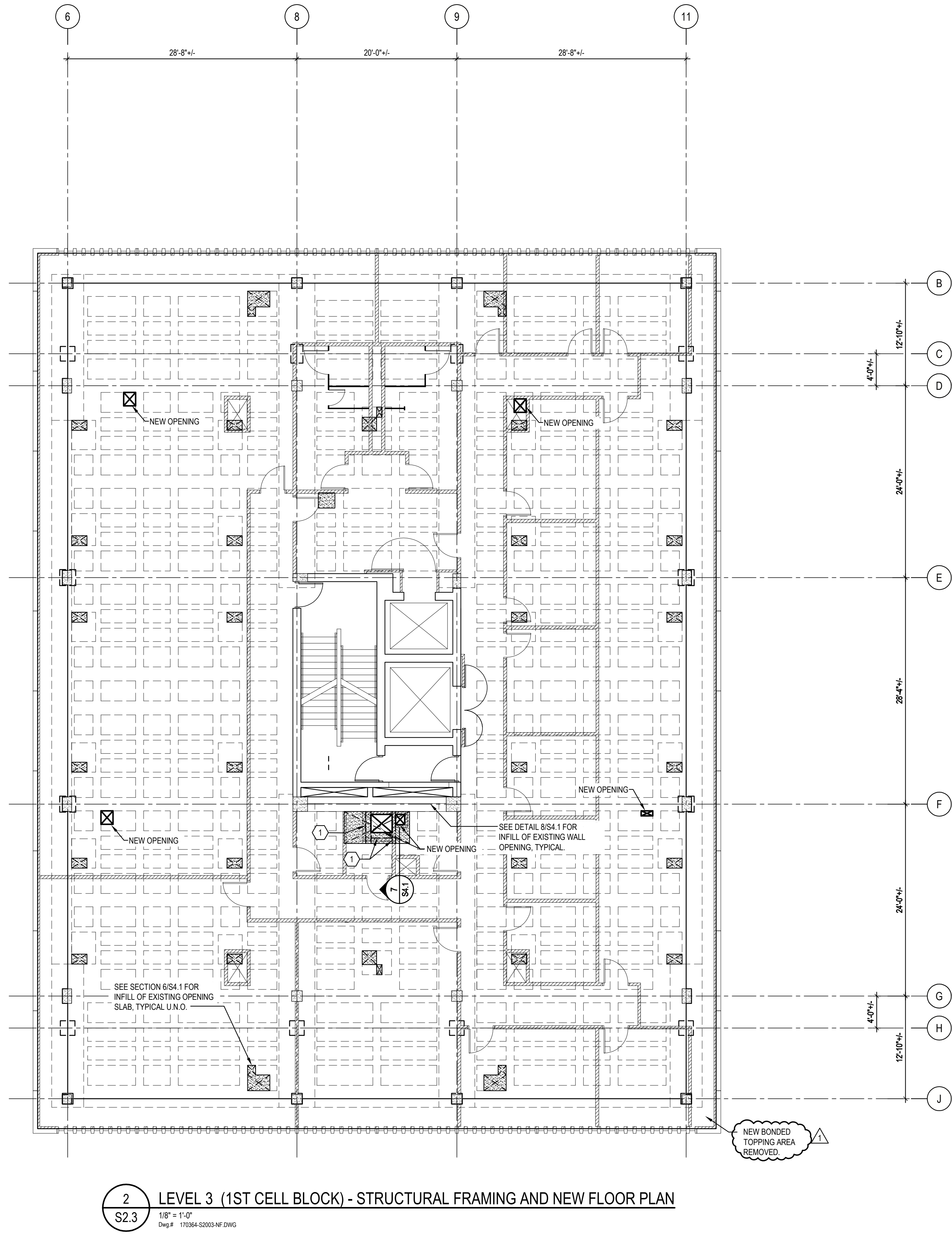
1
S2.3
LEVEL 3 (1ST CELL BLOCK) - DEMO AND FLOOR TOPPING SLAB REPAIR
1/8" = 1'-0"
Dwg # 170864-S203-DF-DWG

DEMOLITION PLAN NOTES

1. PLAN, NOTES, ETC. SHOW GENERAL DEMOLITION SCOPE FOR STRUCTURAL ELEMENTS ONLY. FOR SPECIFIC LOCATIONS WHERE EXISTING CONSTRUCTION REMAINS, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION SHOWN TO BE DEMOLISHED AND PROTECT ITEMS TO REMAIN.
2. ALL DIMENSIONS AND EXISTING ELEMENTS SHOWN WERE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS BY LSC&W DATED NOV. 10, 1972. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IN WRITING PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
3. EXTENT OF DEMOLITION SHOWN REPRESENTS INTENT OF DEMOLITION. ACTUAL SCOPE OF DEMOLITION SHALL INCLUDE ALL ELEMENTS SHOWN ON THE DEMOLITION PLAN AND THOSE OTHER ITEMS AS REQUIRED TO COMPLETELY REMOVE THE EXISTING CONSTRUCTION INTENDED FOR DEMOLITION.
4. CARE SHALL BE GIVEN DURING DEMOLITION NOT TO DAMAGE EXISTING COMPONENTS OUTSIDE THE SCOPE OF DEMOLITION. REMEDIAL WORK REQUIRED TO REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION THAT ARE NOT TO BE DEMOLISHED SHALL BE PERFORMED AT NO COST TO THE OWNER.
5. AT LOCATIONS WHERE EXISTING STRUCTURAL COMPONENTS ARE TO BE REMOVED, DO NOT OVERCUT. DEMOLITION SHALL EXTEND ONLY TO THE LIMITS OF THE AREA TO BE DEMOLISHED.
6. THE CONTRACTOR SHALL NOT REMOVE SECTIONS OF STRUCTURAL ELEMENTS THAT ARE SUPPORTING ELEMENTS TO REMAIN IN PLACE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNERS. THE DESIGNERS SHALL BE NOTIFIED IN WRITING IF SUCH A CONDITION IS ENCOUNTERED FOR REVIEW.
7. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER TRADES FOR EXTENT OF REMOVAL AND REPLACEMENT OF SPECIFIC FEATURES AND UTILITIES.
8. EXCEPT WHERE SPECIFICALLY NOTED, IT IS THE INTENT FOR ALL FLOOR OPENINGS AND PENETRATIONS TO OCCUR THROUGH THE CONCRETE SLAB PORTION OF THE FLOORS OR ROOFS. IF THE PENETRATION WOULD CONFLICT WITH AN EXISTING RIB, JOIST, BEAM, ETC., NOTIFY THE ARCHITECT/ENGINEER PRIOR TO CORING OR DEMOLITION.

DEMOLITION NOTES:

1. REMOVE EXISTING CELL WALLS, AND INFILL WITH NEW TOPPING SLAB REFER TO 2/S4.1 FOR REQUIREMENTS.
2. DEMO SLAB OPENING COORDINATE W/ MEP



2
S2.3
LEVEL 3 (1ST CELL BLOCK) - STRUCTURAL FRAMING AND NEW FLOOR PLAN
1/8" = 1'-0"
Dwg # 170864-S203-NF-DWG

FLOOR FRAMING PLAN NOTES

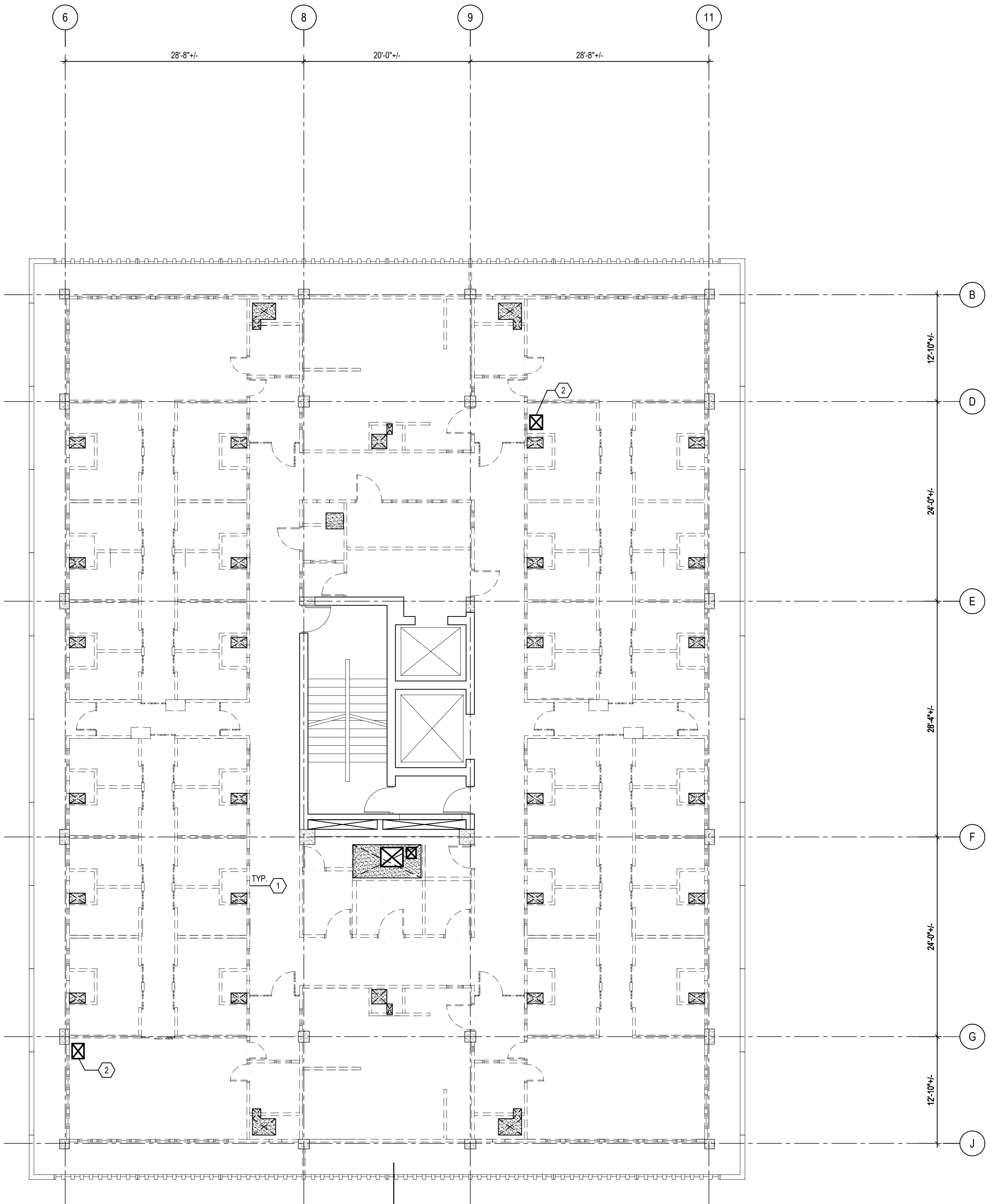
1. ELEVATIONS:

- A. DIMENSIONS AND ELEVATIONS SHOWN ARE BASED UPON THE ORIGINAL STRUCTURAL DRAWINGS DATED NOVEMBER 10, 1972. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN BY FIELD MEASUREMENTS.
- B. FF = 861'-6"
- C. THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
(-) TOP OF STEEL
(-) TOP OF SLAB

CONCRETE FLOOR SLAB NOTES

1. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS.
 2. NEW OPENINGS IN EXISTING CONCRETE SLABS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN. CONTRACTOR SHALL COORDINATE NEW OPENINGS IN EXISTING CONCRETE SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. REFER TO TYPICAL DETAILS FOR OPENING REQUIREMENTS.
 3. DEPRESSIONS IN EXISTING TOPPING SLAB SHALL BE INFILLED, REFER TO TYPICAL DETAILS AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 4. EXISTING OPENINGS THAT ARE NOT USED FOR NEW CONSTRUCTION SHALL BE INFILLED, REFER TO TYPICAL DETAILS FOR INFILL REQUIREMENTS. EXISTING OPENINGS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.
- THE SLAB SURFACE MUST MEET THE SURFACE REQUIREMENTS FOR THE SPECIFIED COVERING FLOOR MATERIALS. TO MEET THOSE REQUIREMENTS SURFACE MODIFICATION SUCH AS GRINDING OR LEVELING MAY BE REQUIRED, SEE SPECIFICATIONS FOR THE INDIVIDUAL FLOOR COVERING REQUIREMENTS.
6. EXISTING UN-TOPPED FLOOR SLAB AREAS SHALL BE INFILLED, EXCEPT AT NEW FLOOR PENETRATIONS. UN-TOPPED AREAS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.
 - 6A. THE FLOOR AREA WITHIN THE EXISTING PLUMBING AND MECHANICAL CHASES TYPICALLY DID NOT RECEIVE A 2" BONDED TOPPING. A NEW BONDED TOPPING IS REQUIRED IN THESE AREAS. INSTALL PER 3/S4.1

1. NEW FORMED BEAM SIMILAR TO SECTION 3/S2.2A



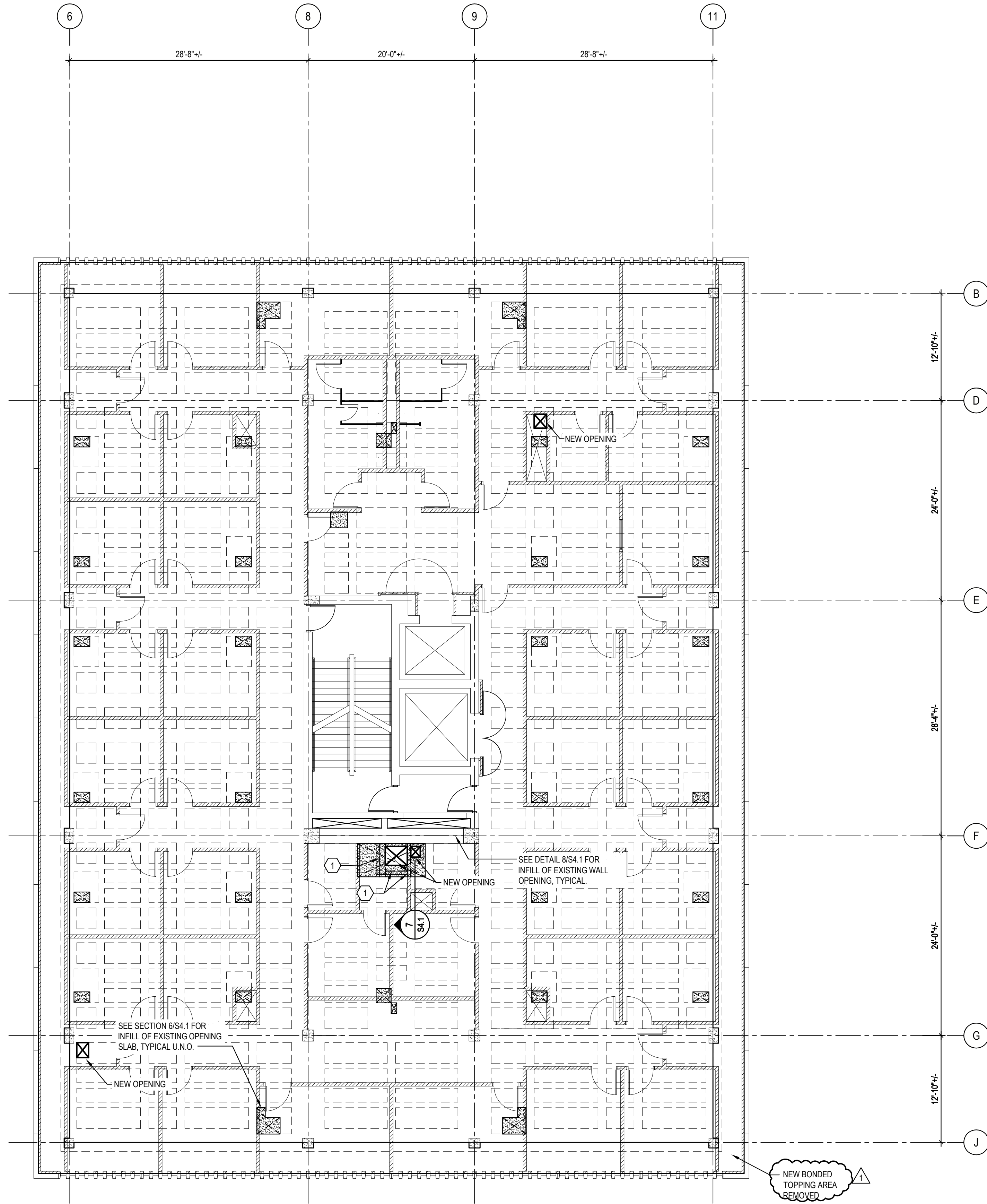
1
S2.4
LEVEL 4 (2ND CELL BLOCK) - DEMO AND FLOOR TOPPING SLAB REPAIR
1/8" = 1'-0"
Dwg # 170364-S204-DF.DWG

DEMOLITION PLAN NOTES

1. PLAN, NOTES, ETC. SHOW GENERAL DEMOLITION SCOPE FOR STRUCTURAL ELEMENTS ONLY. FOR SPECIFIC LOCATIONS WHERE EXISTING CONSTRUCTION REMAINS, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION SHOWN TO BE DEMOLISHED AND PROTECT ITEMS TO REMAIN.
2. ALL DIMENSIONS AND EXISTING ELEMENTS SHOWN WERE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS BY LBC&W DATED NOV. 10, 1972. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IN WRITING PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
3. EXTENT OF DEMOLITION SHOWN REPRESENTS INTENT OF DEMOLITION. ACTUAL SCOPE OF DEMOTION SHALL INCLUDE ALL ELEMENTS SHOWN ON THE DEMOLITION PLAN AND THOSE OTHER ITEMS AS REQUIRED TO COMPLETELY REMOVE THE EXISTING CONSTRUCTION INTENDED FOR DEMOLITION.
4. CARE SHALL BE GIVEN DURING DEMOLITION NOT TO DAMAGE EXISTING COMPONENTS OUTSIDE THE SCOPE OF DEMOLITION. REMEDIAL WORK REQUIRED TO REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION THAT ARE NOT TO BE DEMOLISHED SHALL BE PERFORMED AT NO COST TO THE OWNER.
5. AT LOCATIONS WHERE EXISTING STRUCTURAL COMPONENTS ARE TO BE REMOVED, DO NOT OVERCUT. DEMOLITION SHALL EXTEND ONLY TO THE LIMITS OF THE AREA TO BE DEMOLISHED.
6. THE CONTRACTOR SHALL NOT REMOVE SECTIONS OF STRUCTURAL ELEMENTS THAT ARE SUPPORTING ELEMENTS TO REMAIN IN PLACE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNERS. THE DESIGNERS SHALL BE NOTIFIED IN WRITING IF SUCH A CONDITION IS ENCOUNTERED FOR REVIEW.
7. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER TRADES FOR EXTENT OF REMOVAL AND REPLACEMENT OF SPECIFIC FEATURES AND UTILITIES.
8. EXCEPT WHERE SPECIFICALLY NOTED, IT IS THE INTENT FOR ALL FLOOR OPENINGS AND PENETRATIONS TO OCCUR THROUGH THE CONCRETE SLAB PORTION OF THE FLOORS OR ROOFS. IF THE PENETRATION WOULD CONFLICT WITH AN EXISTING RIB, JOIST, BEAM ETC., NOTIFY THE ARCHITECT/ENGINEER PRIOR TO CORING OR DEMOLITION.

DEMOLITION NOTES:

1. REMOVE EXISTING CELL WALLS, AND INFILL WITH NEW TOPPING SLAB REFER TO 2/54.1 FOR REQUIREMENTS.
2. DEMO SLAB OPENING COORDINATE W/ MEP



2
S2.4
LEVEL 4 (2ND CELL BLOCK) - STRUCTURAL FRAMING AND NEW FLOOR PLAN
1/8" = 1'-0"
Dwg # 170364-S204-NF.DWG

FLOOR FRAMING PLAN NOTES

1. ELEVATIONS:

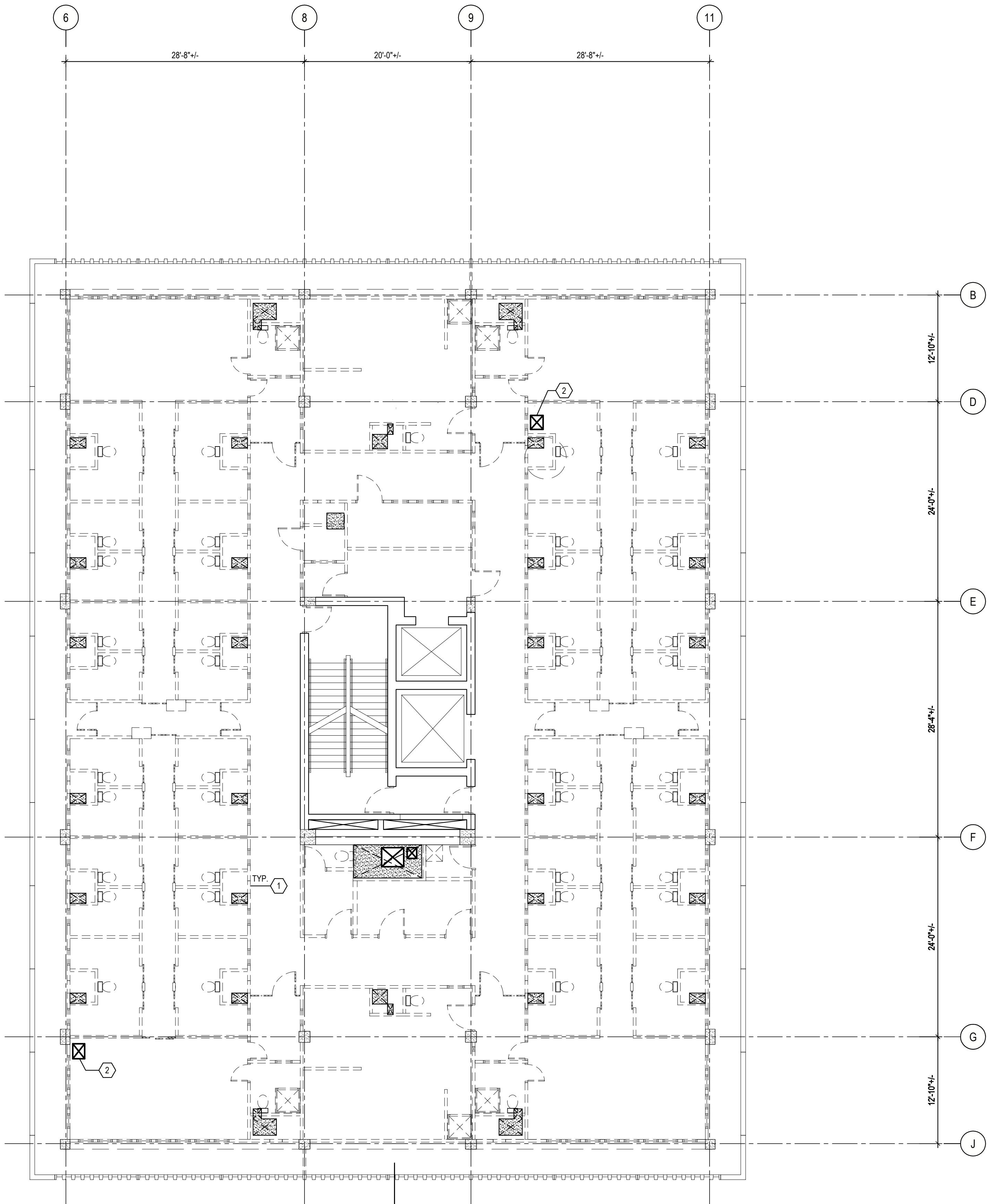
- A. DIMENSIONS AND ELEVATIONS SHOWN ARE BASED UPON THE ORIGINAL STRUCTURAL DRAWINGS DATED NOVEMBER 10, 1972. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN BY FIELD MEASUREMENTS.
- B. FF = 861'-6"
- C. THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
(---) TOP OF STEEL
(---) TOP OF SLAB

CONCRETE FLOOR SLAB NOTES

1. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS.
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3. DEPRESSIONS IN EXISTING TOPPING SLAB SHALL BE INFILLED, REFER TO TYPICAL DETAILS AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. EXISTING OPENINGS THAT ARE NOT USED FOR NEW CONSTRUCTION SHALL BE INFILLED, REFER TO TYPICAL DETAILS FOR INFILL REQUIREMENTS. EXISTING OPENINGS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.

5. THE SLAB SURFACE MUST MEET THE SURFACE REQUIREMENTS FOR THE SPECIFIED COVERING FLOOR MATERIALS. TO MEET THOSE REQUIREMENTS SURFACE MODIFICATION SUCH AS GRINDING OR LEVELING MAY BE REQUIRED, SEE SPECIFICATIONS FOR THE INDIVIDUAL FLOOR COVERING REQUIREMENTS.
6. EXISTING UN-TOPPED FLOOR SLAB AREAS SHALL BE INFILLED, EXCEPT AT NEW FLOOR PENETRATIONS. UN-TOPPED AREAS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.
- 6A. THE FLOOR AREA WITHIN THE EXISTING PLUMBING AND MECHANICAL CHASES TYPICALLY DID NOT RECEIVE A 2" BONDED TOPPING. A NEW BONDED TOPPING IS REQUIRED IN THESE AREAS. INSTALL PER 3/54.1

1. NEW FORMED BEAM SIMILAR TO SECTION 3/52.2A



1
S2.5
1/8" = 1'-0"
Dwg # 170364-S2005-0F.DWG

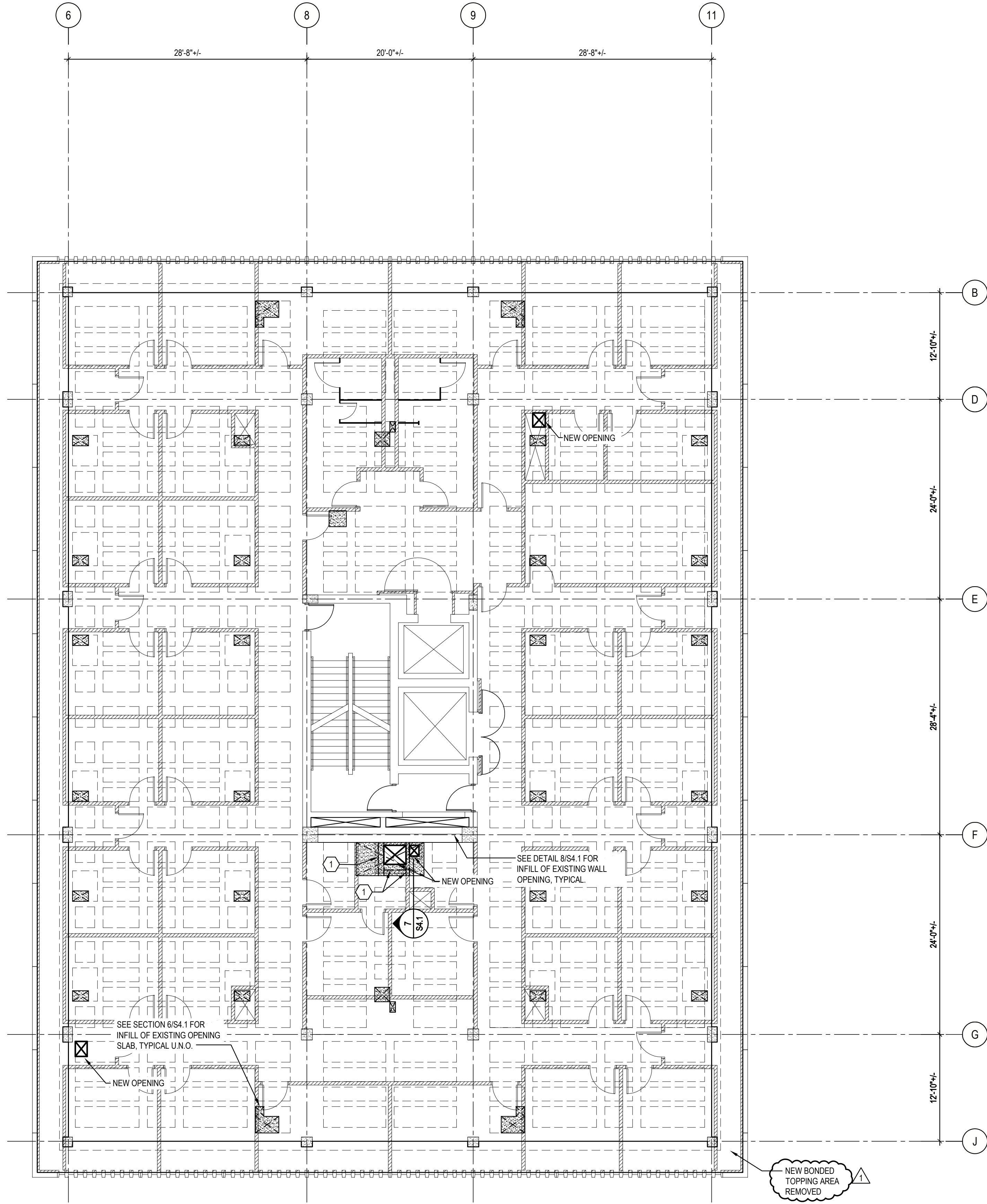
LEVEL 5 (3RD CELL BLOCK) - DEMO AND FLOOR TOPPING SLAB REPAIR

DEMOLITION PLAN NOTES

1. PLAN, NOTES, ETC. SHOW GENERAL DEMOLITION SCOPE FOR STRUCTURAL ELEMENTS ONLY. FOR SPECIFIC LOCATIONS WHERE EXISTING CONSTRUCTION REMAINS, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION SHOWN TO BE DEMOLISHED AND PROTECT ITEMS TO REMAIN.
2. ALL DIMENSIONS AND EXISTING ELEMENTS SHOWN WERE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS BY LBC&W DATED NOV. 10, 1972. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IN WRITING PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
3. EXTENT OF DEMOLITION SHOWN REPRESENTS INTENT OF DEMOLITION. ACTUAL SCOPE OF DEMOLITION SHALL INCLUDE ALL ELEMENTS SHOWN ON THE DEMOLITION PLAN AND THOSE OTHER ITEMS AS REQUIRED TO COMPLETELY REMOVE THE EXISTING CONSTRUCTION INTENDED FOR DEMOLITION.
4. CARE SHALL BE GIVEN DURING DEMOLITION NOT TO DAMAGE EXISTING COMPONENTS OUTSIDE THE SCOPE OF DEMOLITION. REMEDIAL WORK REQUIRED TO REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION THAT ARE NOT TO BE DEMOLISHED SHALL BE PERFORMED AT NO COST TO THE OWNER.
5. AT LOCATIONS WHERE EXISTING STRUCTURAL COMPONENTS ARE TO BE REMOVED, DO NOT OVERCUT. DEMOLITION SHALL EXTEND ONLY TO THE LIMITS OF THE AREA TO BE DEMOLISHED.
6. THE CONTRACTOR SHALL NOT REMOVE SECTIONS OF STRUCTURAL ELEMENTS THAT ARE SUPPORTING ELEMENTS TO REMAIN IN PLACE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNERS. THE DESIGNERS SHALL BE NOTIFIED IN WRITING IF SUCH A CONDITION IS ENCOUNTERED FOR REVIEW.
7. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER TRADES FOR EXTENT OF REMOVAL AND REPLACEMENT OF SPECIFIC FEATURES AND UTILITIES.
8. EXCEPT WHERE SPECIFICALLY NOTED, IT IS THE INTENT FOR ALL FLOOR OPENINGS AND PENETRATIONS TO OCCUR THROUGH THE CONCRETE SLAB PORTION OF THE FLOORS OR ROOFS. IF THE PENETRATION WOULD CONFLICT WITH AN EXISTING RIB, JOIST, BEAM, ETC., NOTIFY THE ARCHITECT/ENGINEER PRIOR TO CORING OR DEMOLITION.

DEMOLITION NOTES:

1. REMOVE EXISTING CELL WALLS, AND INFILL WITH NEW TOPPING SLAB REFER TO 2/S4.1 FOR REQUIREMENTS.
2. DEMO SLAB OPENING COORDINATE W/ MEP



2
S2.5
1/8" = 1'-0"
Dwg # 170364-S2005-0F.DWG

LEVEL 5 (3RD CELL BLOCK) - STRUCTURAL FRAMING AND NEW FLOOR PLAN

FLOOR FRAMING PLAN NOTES

1. ELEVATIONS:

- A. DIMENSIONS AND ELEVATIONS SHOWN ARE BASED UPON THE ORIGINAL STRUCTURAL DRAWINGS DATED NOVEMBER 10, 1972. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN BY FIELD MEASUREMENTS.
- B. FF = 86'-6"
- C. THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
(...) TOP OF STEEL
(...) TOP OF SLAB

CONCRETE FLOOR SLAB NOTES

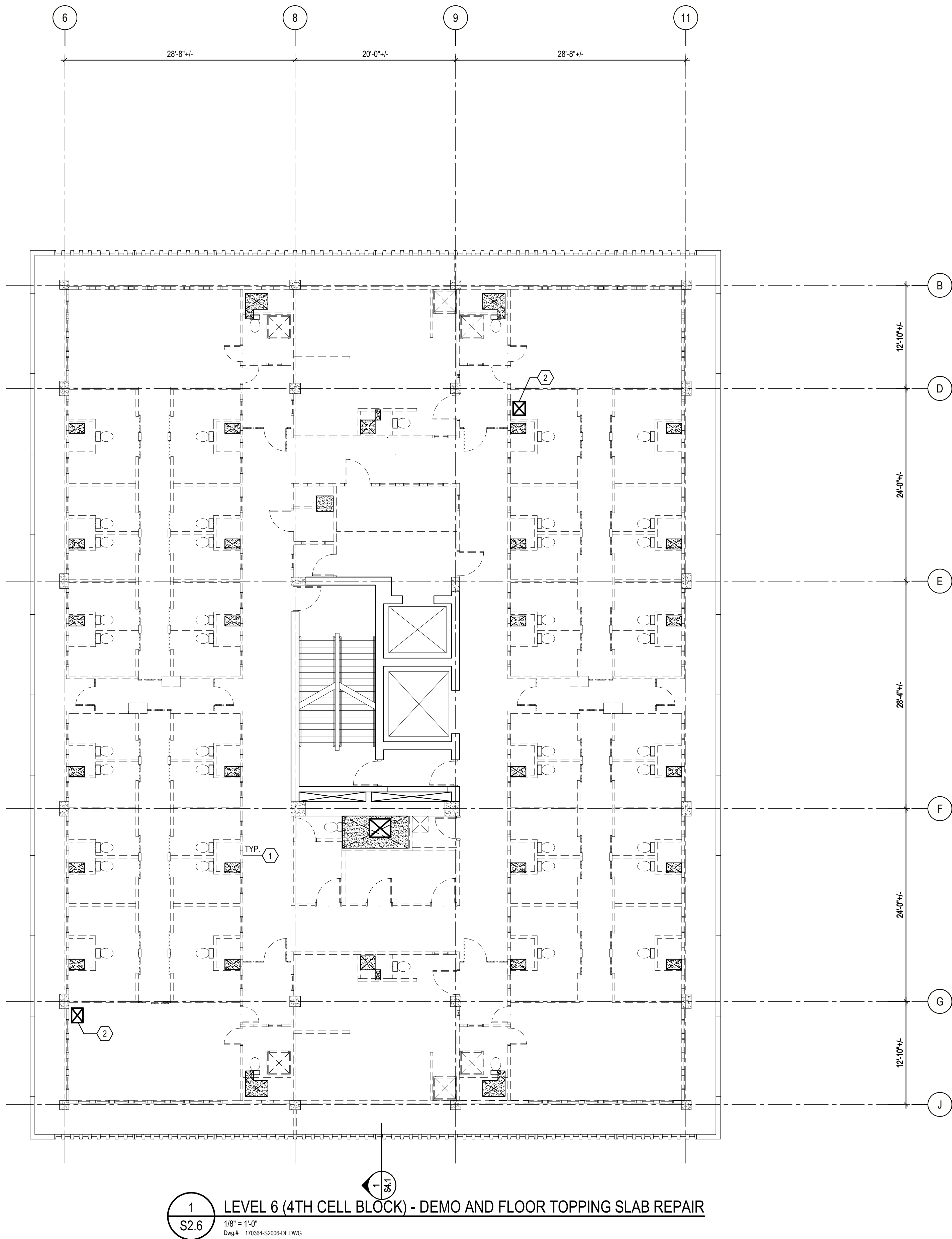
1. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS.
2. NEW OPENINGS IN EXISTING CONCRETE SLABS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN. CONTRACTOR SHALL COORDINATE NEW OPENINGS IN EXISTING CONCRETE SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. REFER TO TYPICAL DETAILS FOR OPENING REQUIREMENTS.
3. DEPRESSIONS IN EXISTING TOPPING SLAB SHALL BE INFILLED. REFER TO TYPICAL DETAILS AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. EXISTING OPENINGS THAT ARE NOT USED FOR NEW CONSTRUCTION SHALL BE INFILLED. REFER TO TYPICAL DETAILS FOR INFILL REQUIREMENTS. EXISTING OPENINGS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.

THE SLAB SURFACE MUST MEET THE SURFACE REQUIREMENTS FOR THE SPECIFIED COVERING FLOOR MATERIALS. TO MEET THOSE REQUIREMENTS SURFACE MODIFICATION SUCH AS GRINDING OR LEVELING MAY BE REQUIRED, SEE SPECIFICATIONS FOR THE INDIVIDUAL FLOOR COVERING REQUIREMENTS.

EXISTING UN-TOPPED FLOOR SLAB AREAS SHALL BE INFILLED, EXCEPT AT NEW FLOOR PENETRATIONS. UN-TOPPED AREAS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.

THE FLOOR AREA WITHIN THE EXISTING PLUMBING AND MECHANICAL CHASES TYPICALLY DID NOT RECEIVE A 2" BONDED TOPPING. A NEW BONDED TOPPING IS REQUIRED IN THESE AREAS. INSTALL PER 3/S4.1

1. NEW FORMED BEAM SIMILAR TO SECTION 3/S2.2A

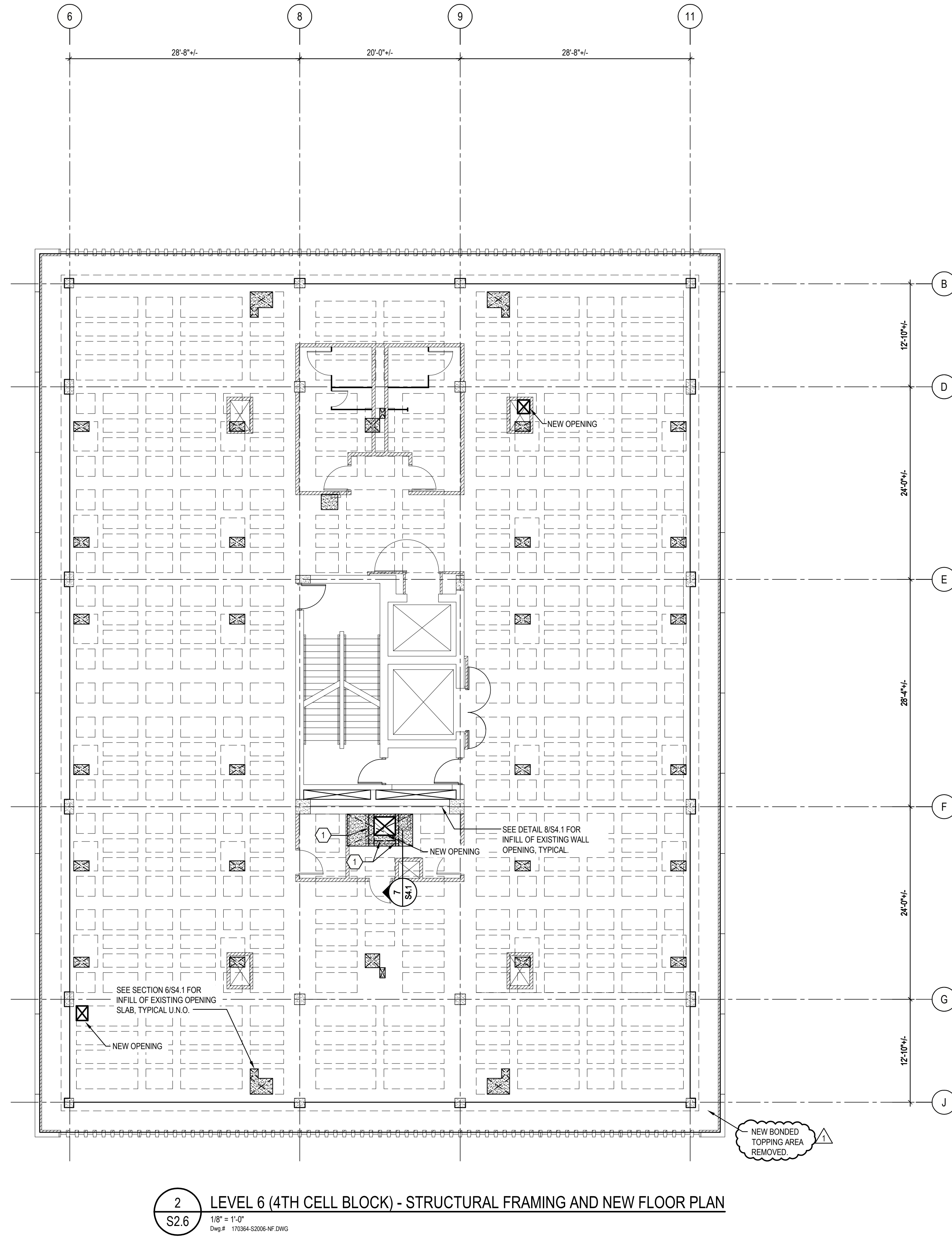


DEMOLITION PLAN NOTES

1. PLAN, NOTES, ETC. SHOW GENERAL DEMOLITION SCOPE FOR STRUCTURAL ELEMENTS ONLY. FOR SPECIFIC LOCATIONS WHERE EXISTING CONSTRUCTION REMAINS, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION SHOWN TO BE DEMOLISHED AND PROTECT ITEMS TO REMAIN.
2. ALL DIMENSIONS AND EXISTING ELEMENTS SHOWN WERE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS BY LBCAW DATED NOV. 10, 1972. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IN WRITING PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
3. EXTENT OF DEMOLITION SHOWN REPRESENTS INTENT OF DEMOLITION. ACTUAL SCOPE OF DEMOLITION SHALL INCLUDE ALL ELEMENTS SHOWN ON THE DEMOLITION PLAN AND THOSE OTHER ITEMS AS REQUIRED TO COMPLETELY REMOVE THE EXISTING CONSTRUCTION INTENDED FOR DEMOLITION.
4. CARE SHALL BE GIVEN DURING DEMOLITION NOT TO DAMAGE EXISTING COMPONENTS OUTSIDE THE SCOPE OF DEMOLITION. REMEDIAL WORK REQUIRED TO REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION THAT ARE NOT TO BE DEMOLISHED SHALL BE PERFORMED AT NO COST TO THE OWNER.
5. AT LOCATIONS WHERE EXISTING STRUCTURAL COMPONENTS ARE TO BE REMOVED, DO NOT OVERCUT. DEMOLITION SHALL EXTEND ONLY TO THE LIMITS OF THE AREA TO BE DEMOLISHED.
6. THE CONTRACTOR SHALL NOT REMOVE SECTIONS OF STRUCTURAL ELEMENTS THAT ARE SUPPORTING ELEMENTS TO REMAIN IN PLACE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNERS. THE DESIGNERS SHALL BE NOTIFIED IN WRITING IF SUCH A CONDITION IS ENCOUNTERED FOR REVIEW.
7. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER TRADES FOR EXTENT OF REMOVAL AND REPLACEMENT OF SPECIFIC FEATURES AND UTILITIES.
8. EXCEPT WHERE SPECIFICALLY NOTED, IT IS THE INTENT FOR ALL FLOOR OPENINGS AND PENETRATIONS TO OCCUR THROUGH THE CONCRETE SLAB PORTION OF THE FLOORS OR ROOFS. IF THE PENETRATION WOULD CONFLICT WITH AN EXISTING RIB, JOIST, BEAM ETC., NOTIFY THE ARCHITECT/ENGINEER PRIOR TO CORING OR DEMOLITION.

DEMOLITION NOTES:

1. REMOVE EXISTING CELL WALLS, AND INFILL WITH NEW TOPPING SLAB REFER TO 2354.1 FOR REQUIREMENTS.
2. DEMO SLAB OPENING COORDINATE W/ MEP



FLOOR FRAMING PLAN NOTES

1. ELEVATIONS:

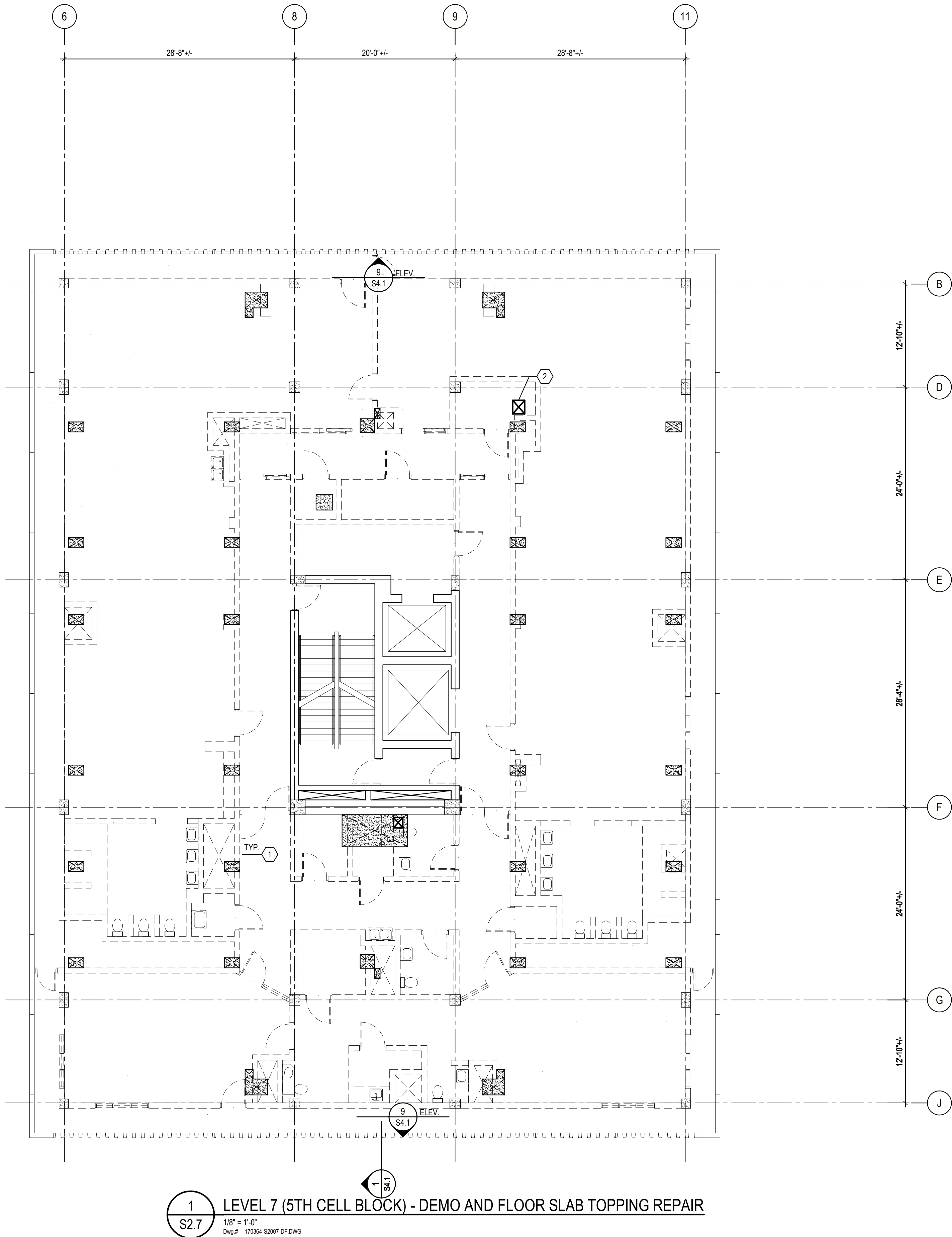
- A. DIMENSIONS AND ELEVATIONS SHOWN ARE BASED UPON THE ORIGINAL STRUCTURAL DRAWINGS DATED NOVEMBER 10, 1972. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN BY FIELD MEASUREMENTS.
- B. FF = 88'-6"
- C. THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
(...) TOP OF STEEL
(...) TOP OF SLAB

CONCRETE FLOOR SLAB NOTES

1. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS.
2. NEW OPENINGS IN EXISTING CONCRETE SLABS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN. CONTRACTOR SHALL COORDINATE NEW OPENINGS IN EXISTING CONCRETE SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. REFER TO TYPICAL DETAILS FOR OPENING REQUIREMENTS.
3. DEPRESSIONS IN EXISTING TOPPING SLAB SHALL BE INFILLED, REFER TO TYPICAL DETAILS AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. EXISTING OPENINGS THAT ARE NOT USED FOR NEW CONSTRUCTION SHALL BE INFILLED, REFER TO TYPICAL DETAILS FOR INFILL REQUIREMENTS. EXISTING OPENINGS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.

5. THE SLAB SURFACE MUST MEET THE SURFACE REQUIREMENTS FOR THE SPECIFIED COVERING FLOOR MATERIALS. TO MEET THOSE REQUIREMENTS SURFACE MODIFICATION SUCH AS GRINDING OR LEVELING MAY BE REQUIRED, SEE SPECIFICATIONS FOR THE INDIVIDUAL FLOOR COVERING REQUIREMENTS.
6. EXISTING UN-TOPPED FLOOR SLAB AREAS SHALL BE INFILLED, EXCEPT AT NEW FLOOR PENETRATIONS. UN-TOPPED AREAS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.
- 6A. THE FLOOR AREA WITHIN THE EXISTING PLUMBING AND MECHANICAL CHASES AND PENETRATIONS TO OCCUR THROUGH THE CONCRETE SLAB PORTION OF THE FLOORS OR ROOFS. IF THE PENETRATION WOULD CONFLICT WITH AN EXISTING RIB, JOIST, BEAM ETC., NOTIFY THE ARCHITECT/ENGINEER PRIOR TO CORING OR DEMOLITION.

1. NEW FORMED BEAM SIMILAR TO SECTION 3/S2.2A



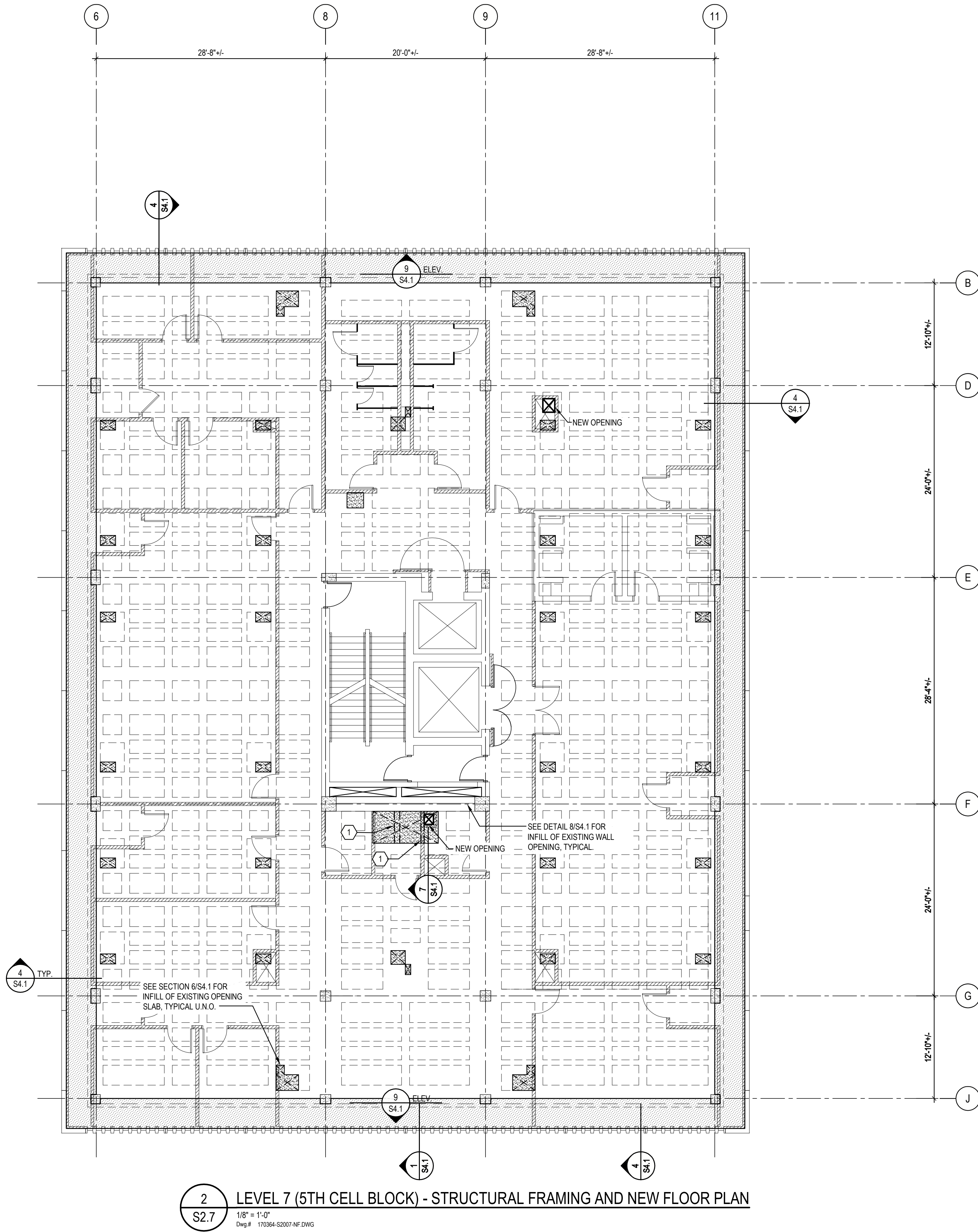
1
S2.7
LEVEL 7 (5TH CELL BLOCK) - DEMO AND FLOOR SLAB TOPPING REPAIR
1/8" = 1'-0"
Dwg # 170364-S2007-0F-DWG

DEMOLITION PLAN NOTES

1. PLAN, NOTES, ETC. SHOW GENERAL DEMOLITION SCOPE FOR STRUCTURAL ELEMENTS ONLY. FOR SPECIFIC LOCATIONS WHERE EXISTING CONSTRUCTION REMAINS, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION SHOWN TO BE DEMOLISHED AND PROTECT ITEMS TO REMAIN.
2. ALL DIMENSIONS AND EXISTING ELEMENTS SHOWN WERE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS BY LSC&W DATED NOV. 10, 1972. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IN WRITING PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
3. EXTENT OF DEMOLITION SHOWN REPRESENTS INTENT OF DEMOLITION. ACTUAL SCOPE OF DEMOLITION SHALL INCLUDE ALL ELEMENTS SHOWN ON THE DEMOLITION PLAN AND THOSE OTHER ITEMS AS REQUIRED TO COMPLETELY REMOVE THE EXISTING CONSTRUCTION INTENDED FOR DEMOLITION.
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5. AT LOCATIONS WHERE EXISTING STRUCTURAL COMPONENTS ARE TO BE REMOVED, DO NOT OVERCUT. DEMOLITION SHALL EXTEND ONLY TO THE LIMITS OF THE AREA TO BE DEMOLISHED.
6. THE CONTRACTOR SHALL NOT REMOVE SECTIONS OF STRUCTURAL ELEMENTS THAT ARE SUPPORTING ELEMENTS TO REMAIN IN PLACE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNERS. THE DESIGNERS SHALL BE NOTIFIED IN WRITING IF SUCH A CONDITION IS ENCOUNTERED FOR REVIEW.
7. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER TRADES FOR EXTENT OF REMOVAL AND REPLACEMENT OF SPECIFIC FEATURES AND UTILITIES.
8. EXCEPT WHERE SPECIFICALLY NOTED, IT IS THE INTENT FOR ALL FLOOR OPENINGS AND PENETRATIONS TO OCCUR THROUGH THE CONCRETE SLAB PORTION OF THE FLOORS OR ROOFS. IF THE PENETRATION WOULD CONFLICT WITH AN EXISTING RIB, JOIST, BEAM ETC., NOTIFY THE ARCHITECT/ENGINEER PRIOR TO CORING OR DEMOLITION.

DEMOLITION NOTES:

1. REMOVE EXISTING CELL WALLS, AND INFILL WITH NEW TOPPING SLAB REFER TO 2354.1 FOR REQUIREMENTS.
2. DEMO SLAB OPENING COORDINATE W/ MEP



2
S2.7
LEVEL 7 (5TH CELL BLOCK) - STRUCTURAL FRAMING AND NEW FLOOR PLAN
1/8" = 1'-0"
Dwg # 170364-S2007-0F-DWG

FLOOR FRAMING PLAN NOTES

1. ELEVATIONS:

- A. DIMENSIONS AND ELEVATIONS SHOWN ARE BASED UPON THE ORIGINAL STRUCTURAL DRAWINGS DATED NOVEMBER 10, 1972. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN BY FIELD MEASUREMENTS.
- B. FF = 861'-6"
- C. THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
(...) TOP OF STEEL
(...) TOP OF SLAB

CONCRETE FLOOR SLAB NOTES

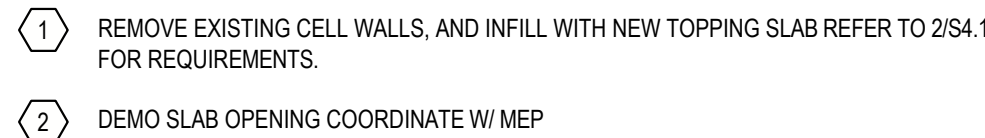
1. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS.
2. NEW OPENINGS IN EXISTING CONCRETE SLABS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN. CONTRACTOR SHALL COORDINATE NEW OPENINGS IN EXISTING CONCRETE SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. REFER TO TYPICAL DETAILS FOR OPENING REQUIREMENTS.
3. DEPRESSIONS IN EXISTING TOPPING SLAB SHALL BE INFILLED. REFER TO TYPICAL DETAILS AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. EXISTING OPENINGS THAT ARE NOT USED FOR NEW CONSTRUCTION SHALL BE INFILLED. REFER TO TYPICAL DETAILS FOR INFILL REQUIREMENTS. EXISTING OPENINGS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL FLOOR PLAN.

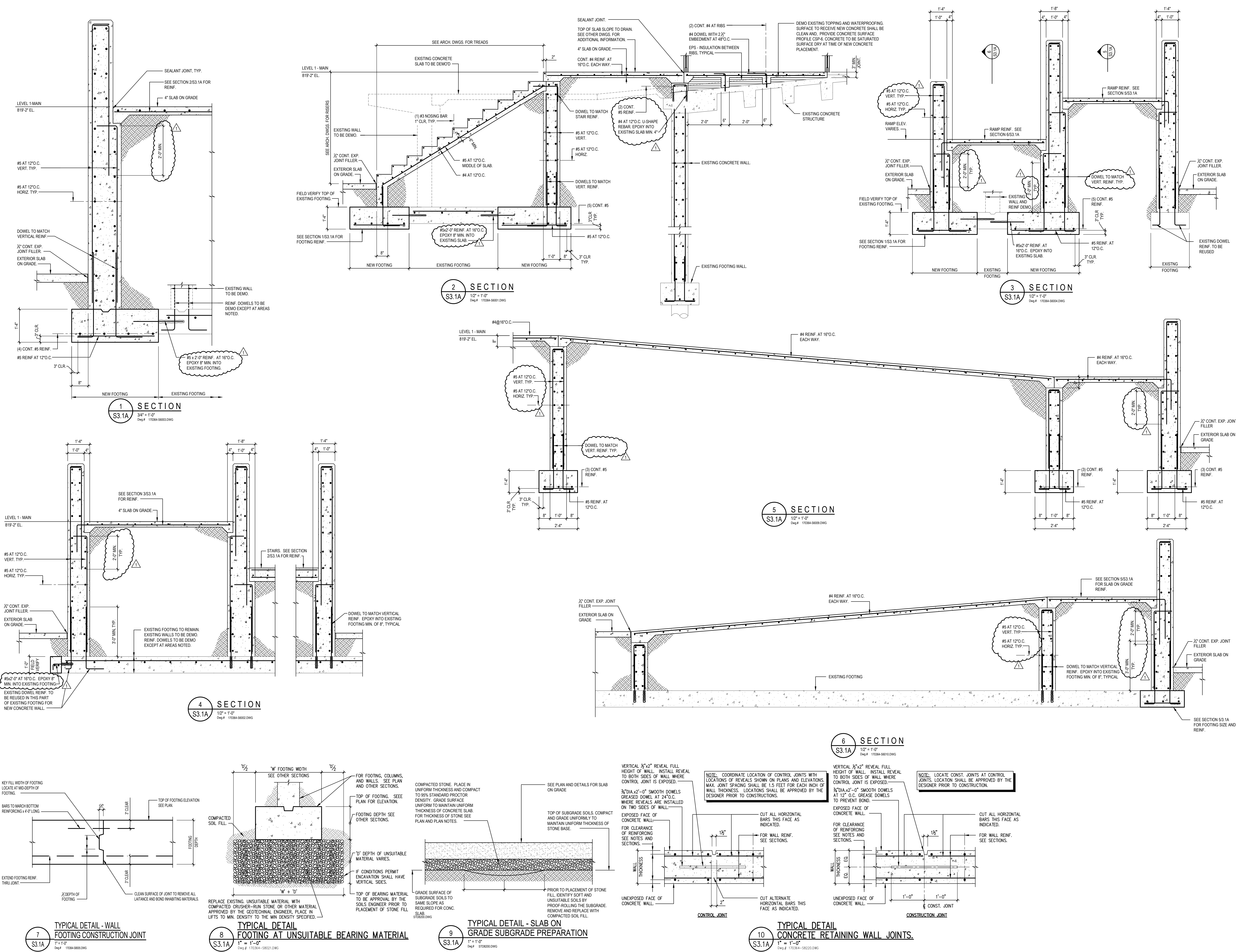
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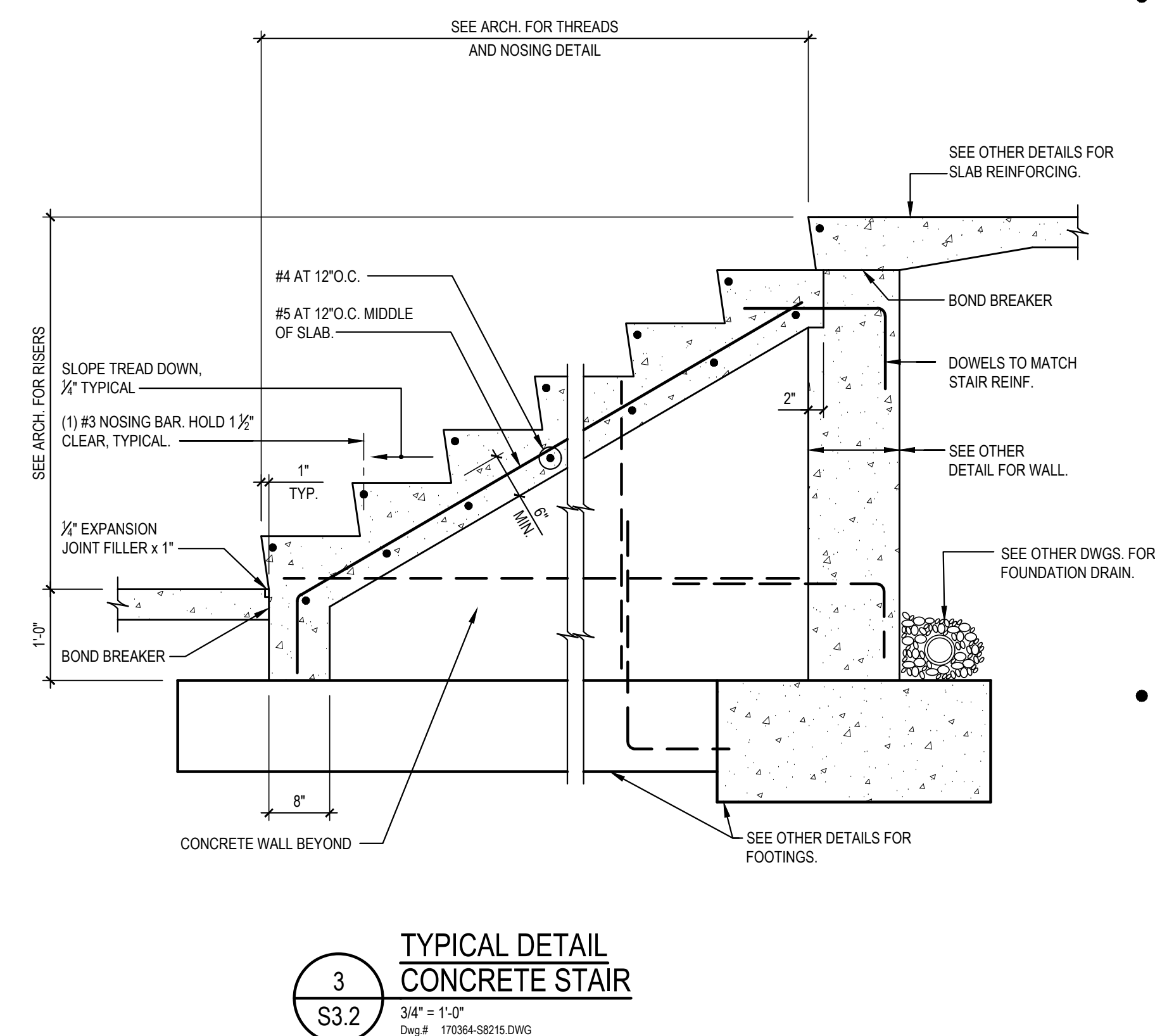
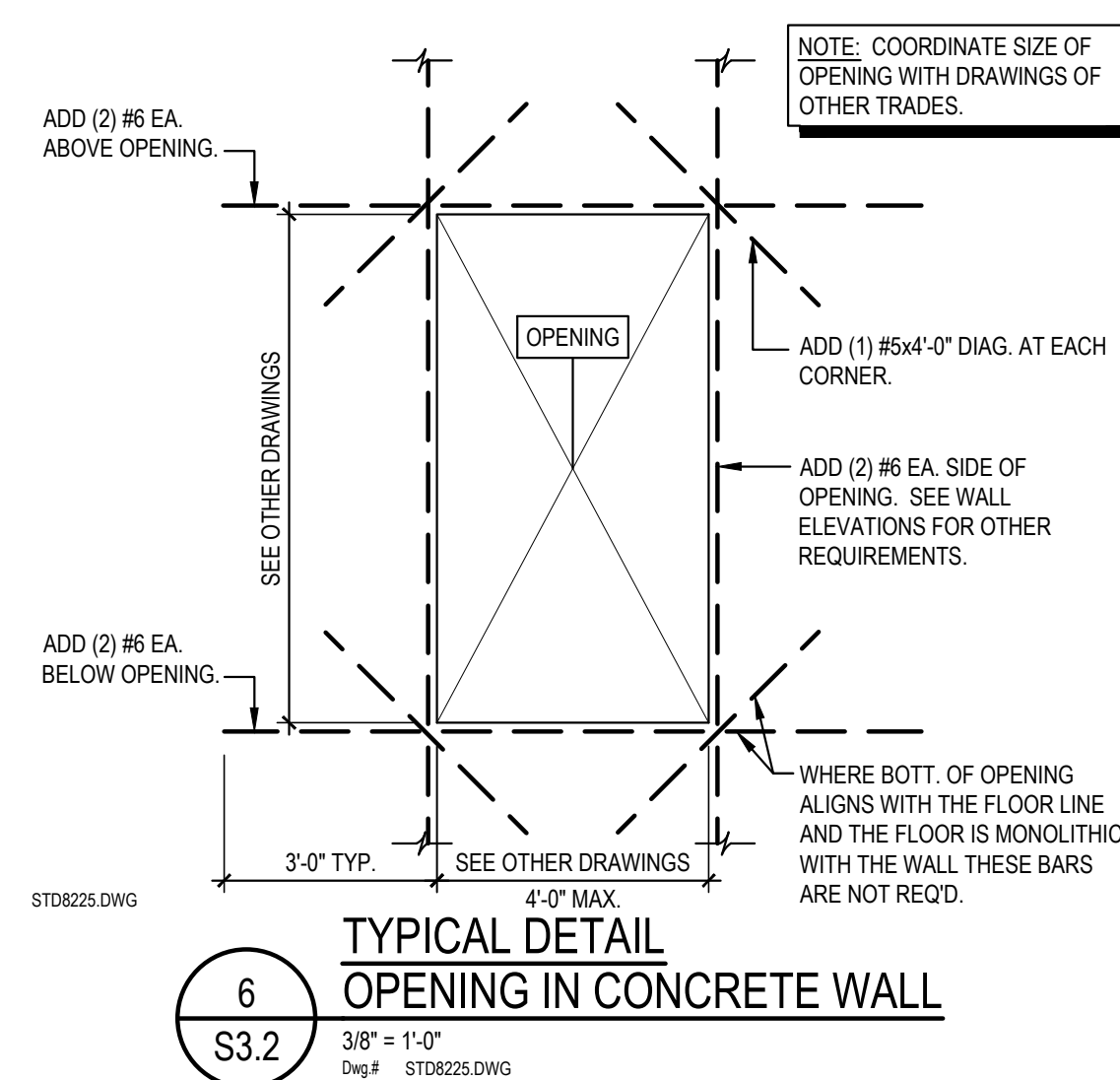
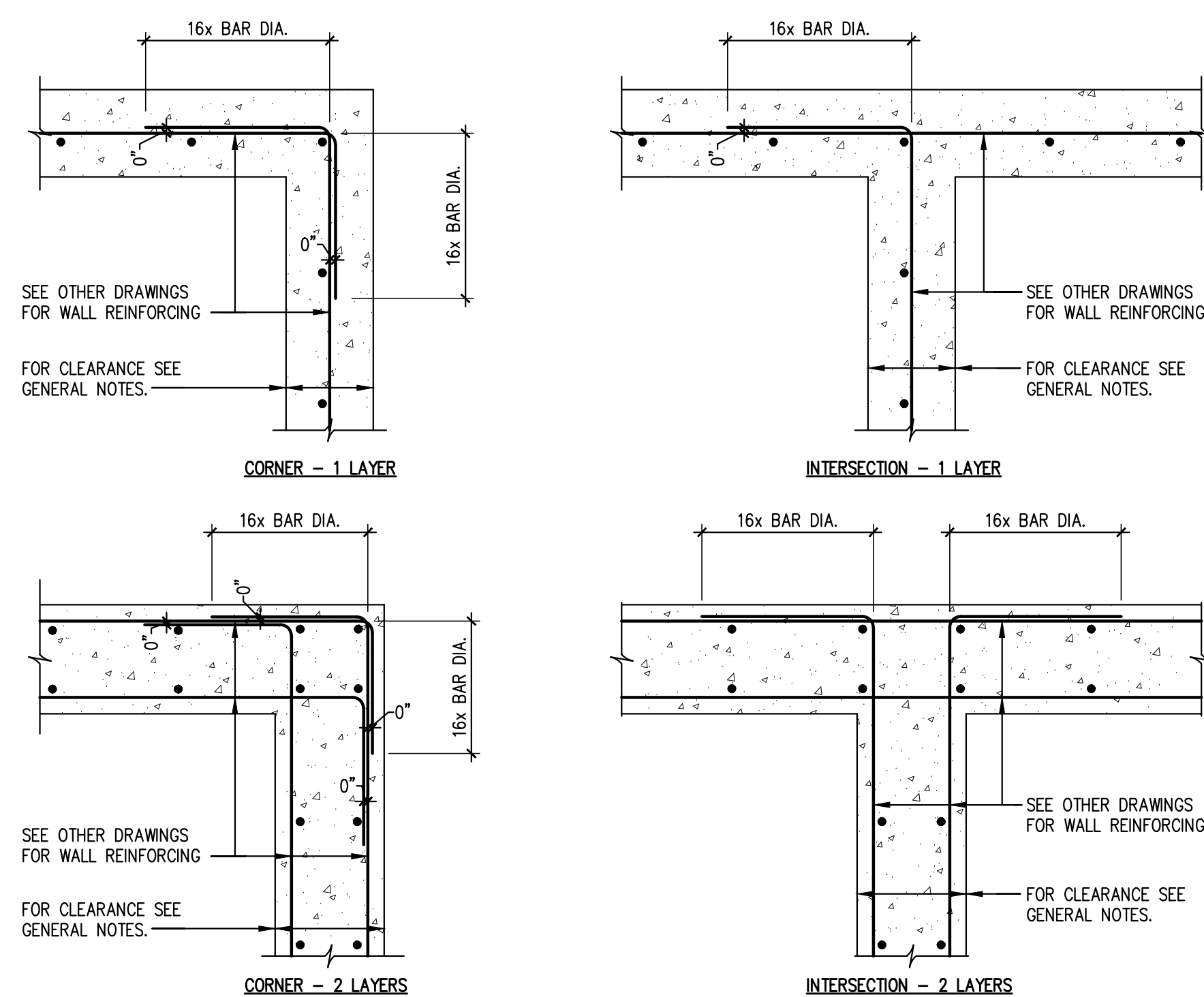
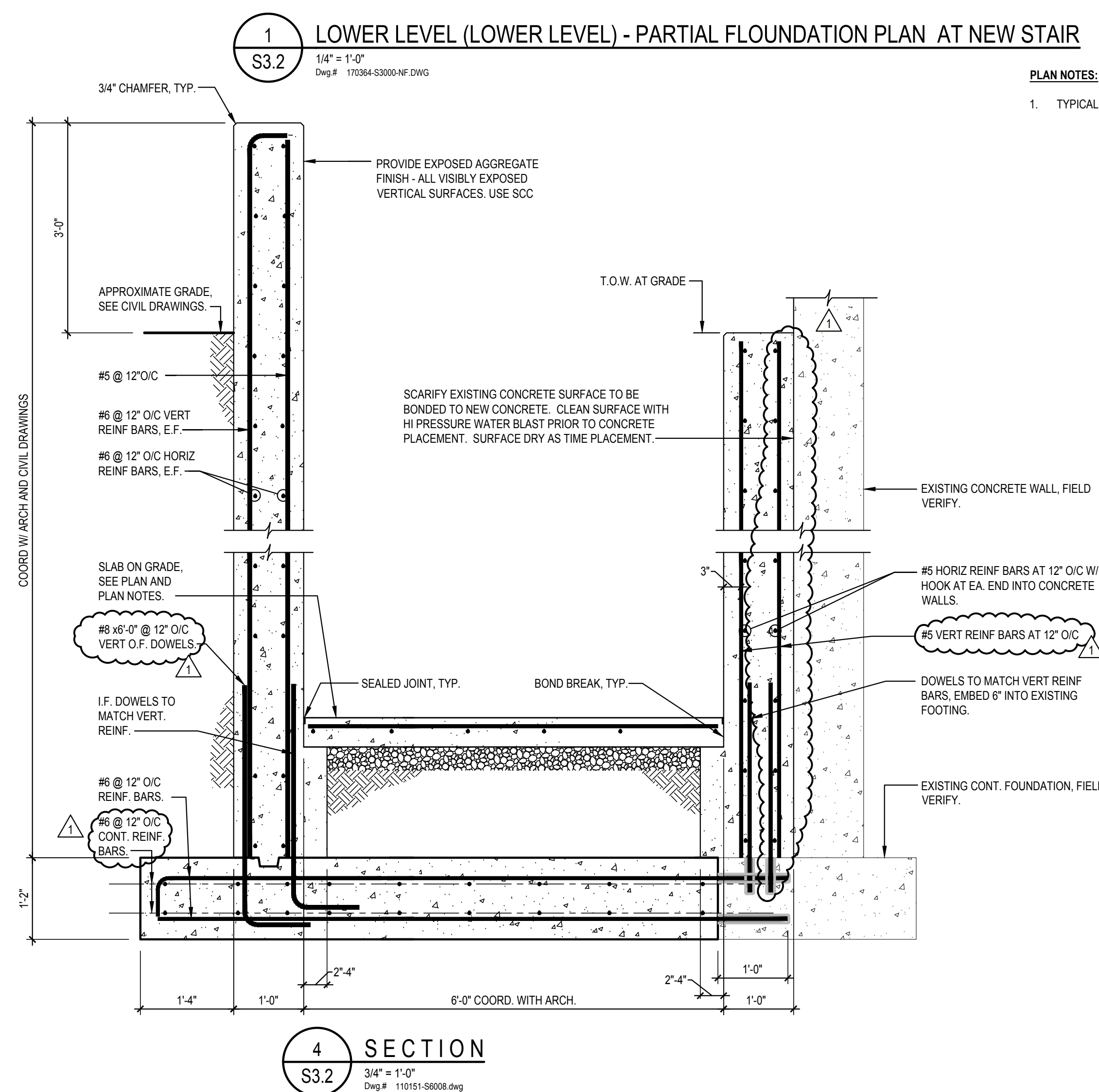
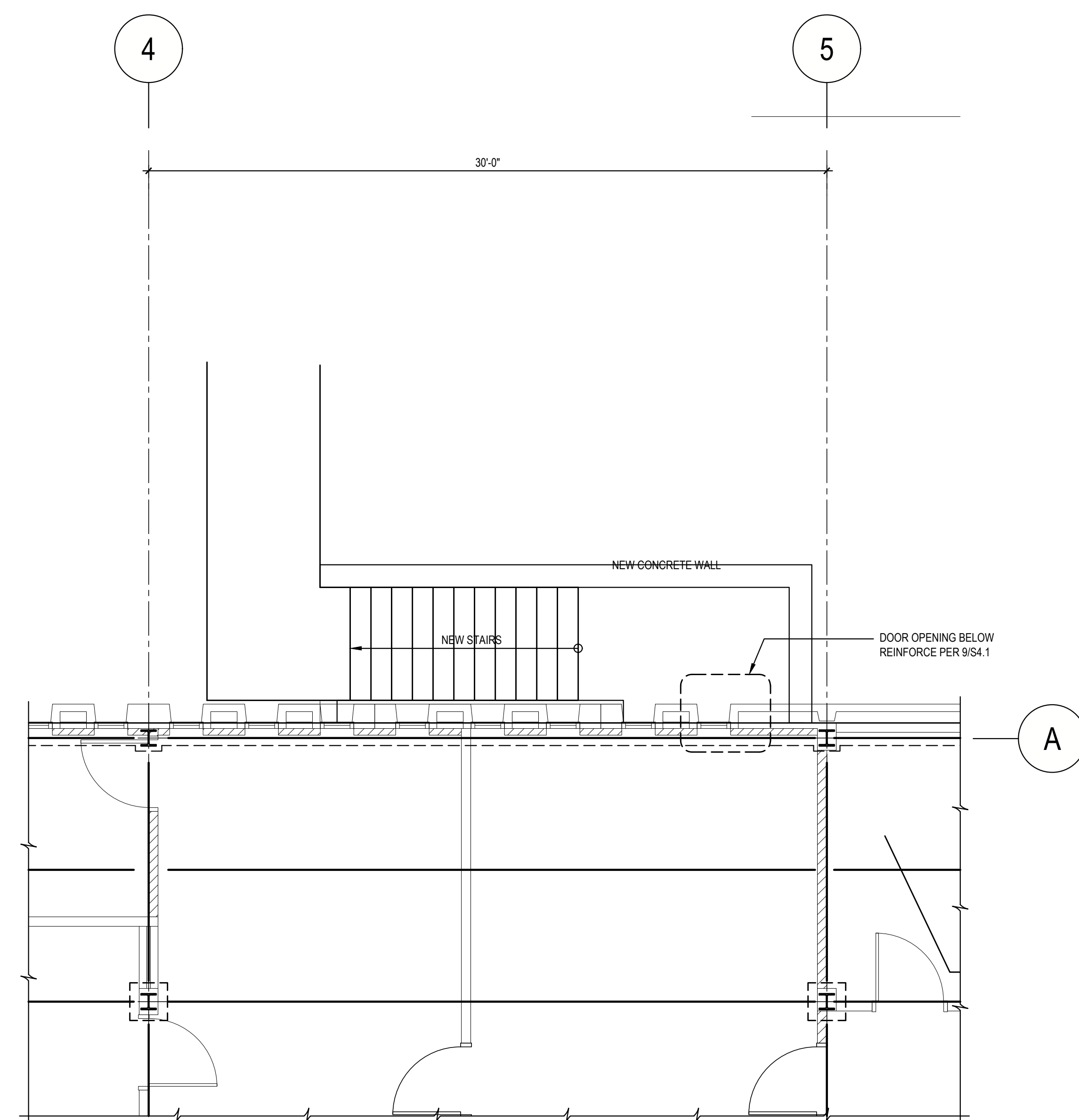
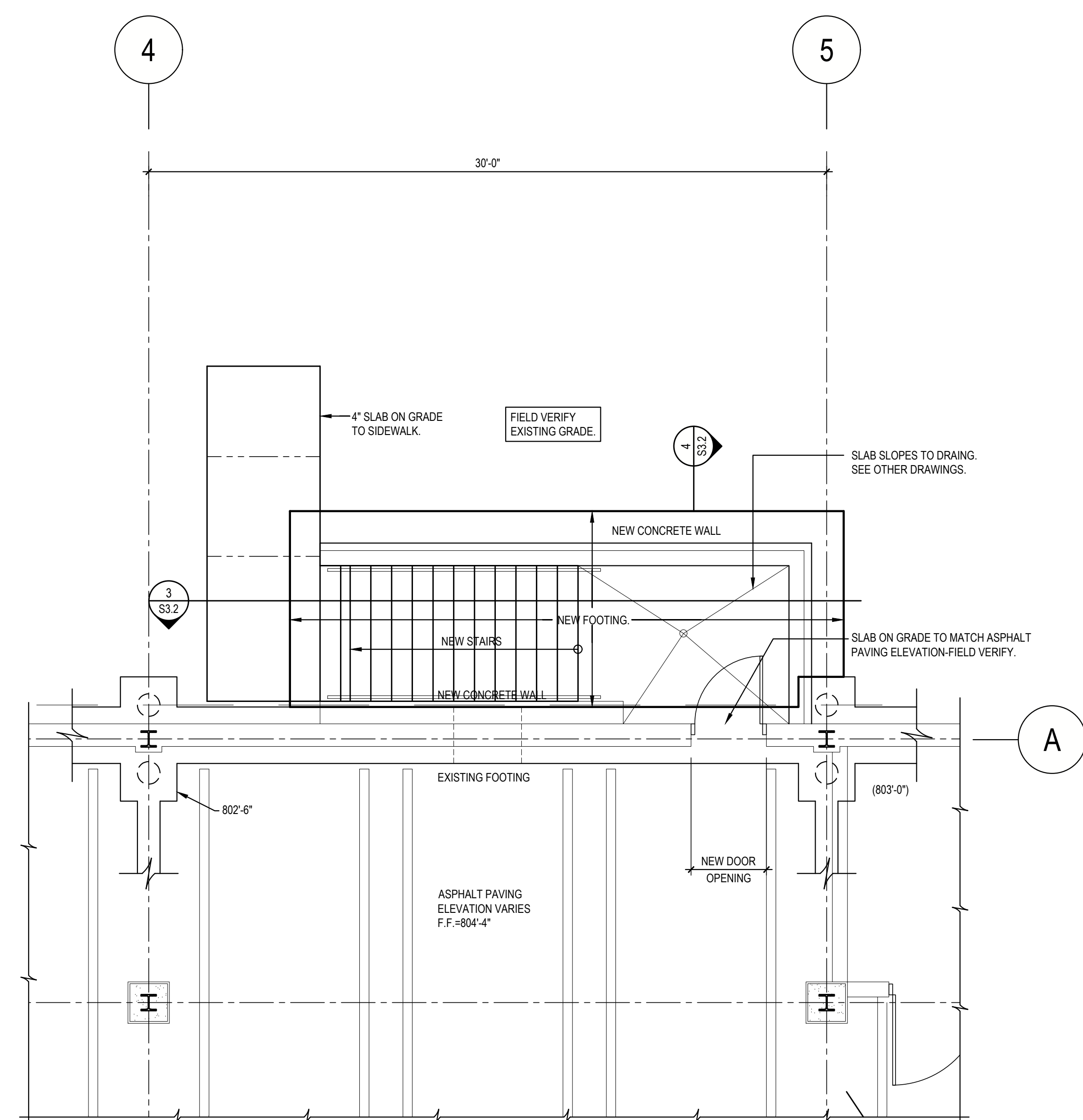
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6A THE FLOOR AREA WITHIN THE EXISTING PLUMBING AND MECHANICAL CHASES TYPICALLY DID NOT RECEIVE A 2" BONDED TOPPING. A NEW BONDED TOPPING IS REQUIRED IN THESE AREAS. INSTALL PER 3/S4.1

1. NEW FORMED BEAM SIMILAR TO SECTION 3/S2.2A

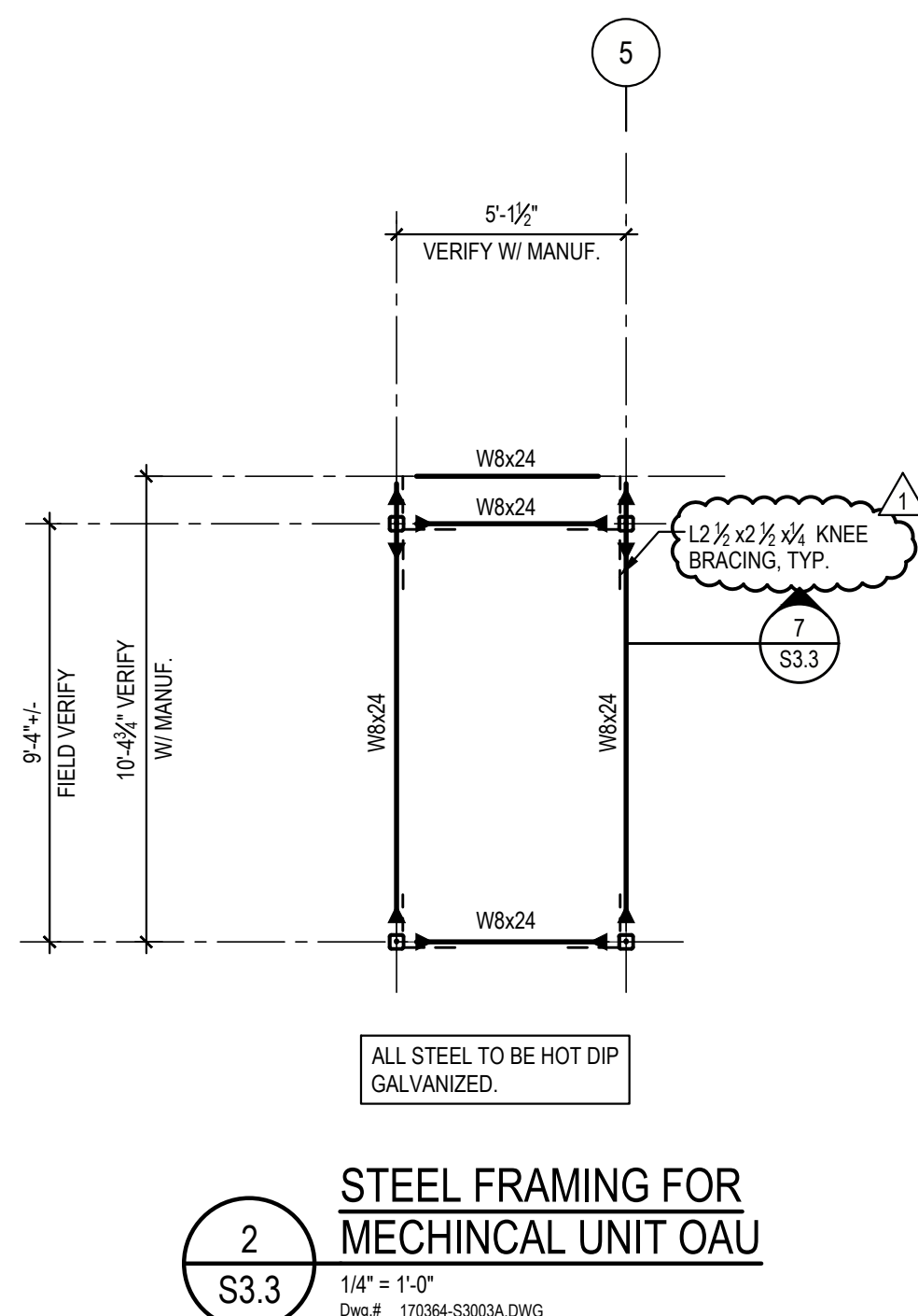






LAP SCHEDULE		
BAR	'Lc'	'Lt'
#4	--	22"
#5	--	31"
#6	24"	37"
#7	28"	54"
#8	32"	62"
#9	36"	69"
#10	40"	82"
#11	48"	102"
#14	56"	138"

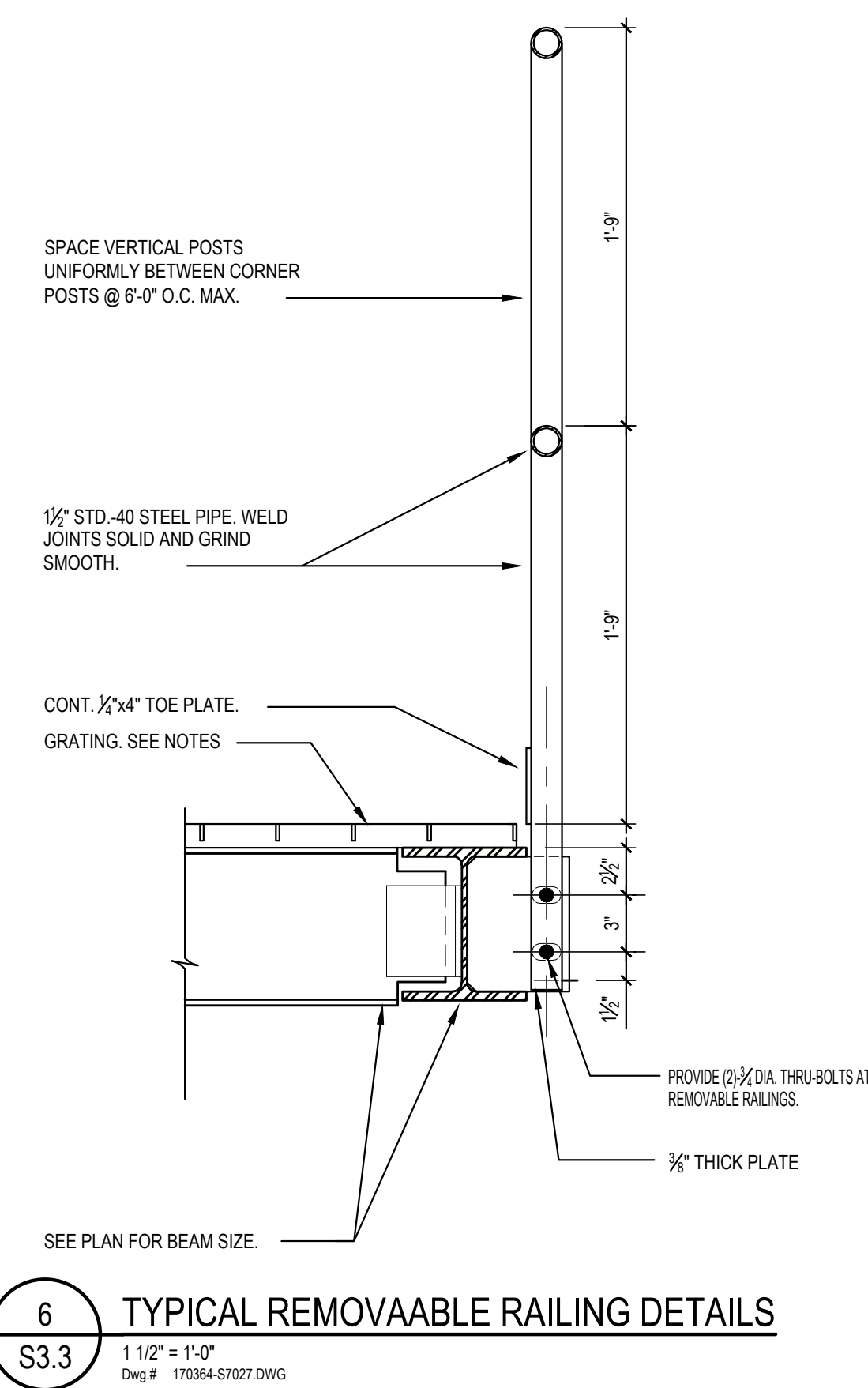
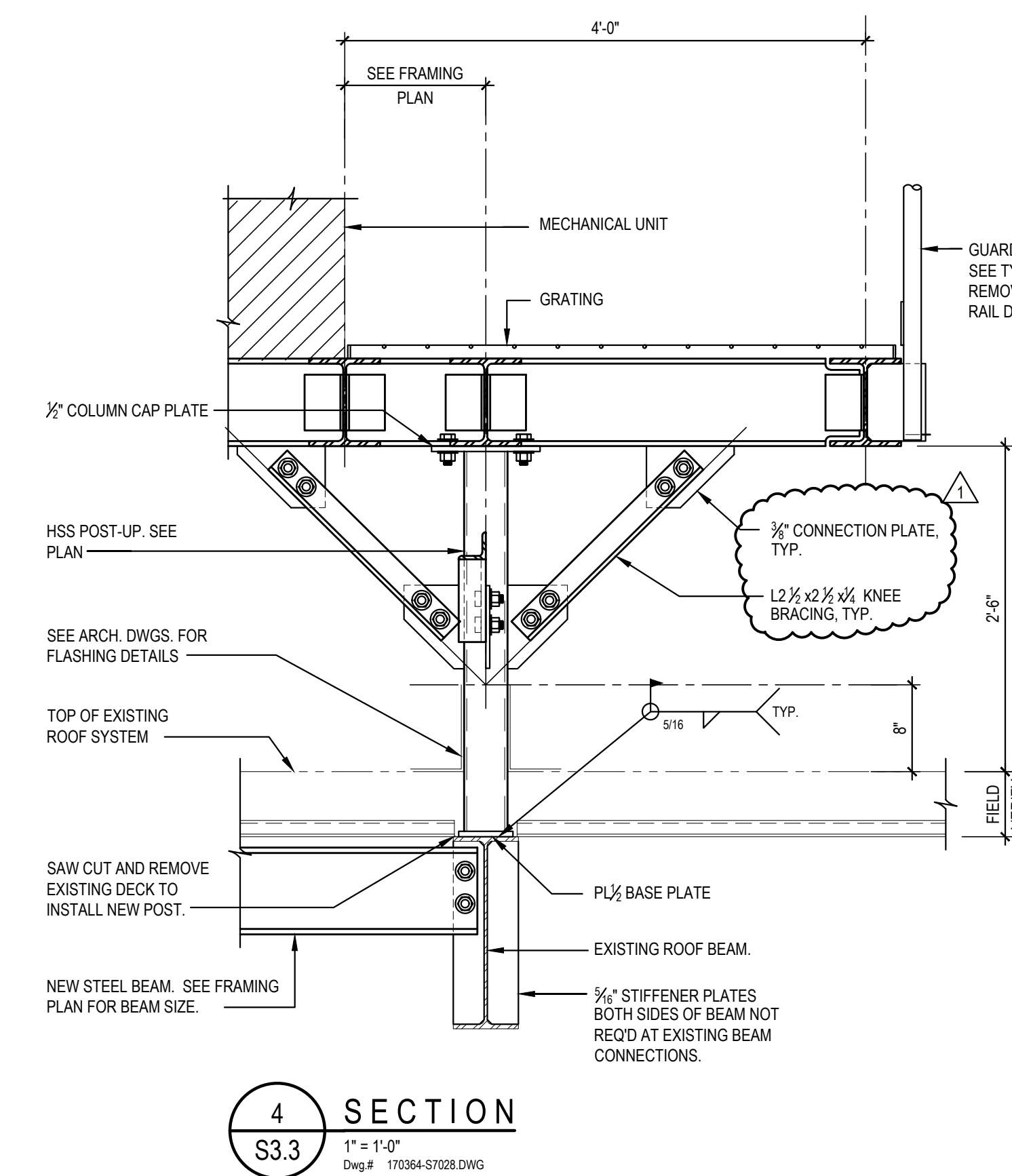
Lc = COMPRESSION SPICE
Lt = CLASS "B" TENSION SPICE



- LIGHT DUTY STEEL GRATING**
1. PROVIDE PRESSURE LOCKED RECTANGULAR STEEL GRATING WITH A HOT DIPPED GALVANIZED FINISH APPLIED AFTER ASSEMBLY IS COMPLETED.
 2. MAIN BARS ARE TO BE A MINIMUM OF $1\frac{1}{2}" \times \frac{3}{8}"$ AND SPACED AT $1\frac{1}{2}"$ O.C.
 3. CROSS BARS ARE TO BE OF RECTANGULAR CROSS SECTION, FLUSH WITH TOP OF MAIN BARS AND SPACED AT 4" O.C. MAXIMUM.
 4. MAIN BARS AND CROSS BARS ARE TO BE SLOTTED AT THEIR INTERSECTIONS SO AS NOT TO REMOVE EXCESSIVE MATERIAL FROM THE LOAD SUSTAINING MEMBERS.
 5. MAIN BARS ARE TO BE DOVETAIL SLOTTED AND ARE TO HAVE THEIR SLOTS FULLY FILLED BY INTERSECTING CROSS BAR.
 6. ALL ENDS OF BEARING BARS ARE TO BE Banded WITH BARS EQUAL IN SIZE TO THE MAIN BEARING BARS.
 7. GRATING IS TO SAFELY SUSTAIN A UNIFORM DISTRIBUTED LOAD OF 100 PSF ON MAXIMUM 6'-0" SPAN, AND DEFLECT LESS THAN L/240.
 8. MAIN GRATING IS TO BE ATTACHED TO SUPPORTS BY STANDARD HOT DIP GALVANIZED CLIPS SPACED AT 12" O.C. MAXIMUM. MINIMUM FOUR (4) FASTENERS PER PANEL. FASTENERS SHALL BE STAINLESS STEEL.
 9. ALL GRATING IS TO BE DESIGNED AND THE SPECIFIED MINIMUM LOADS ARE TO BE VERIFIED FOR STRUCTURAL ADEQUACY UNDER THE GIVEN LIVE LOAD CONDITIONS BY THE GRATING MANUFACTURER.

STEEL GRATING STAIR TREADS

1. FABRICATE TREADS TO THICKNESS INDICATED ON DRAWINGS IN ACCORDANCE WITH ANSI A202.1.
2. TREADS ARE TO BE PRESSURE LOCKED TREAD WITH CHECKERED PLATE NOSING AS MANUFACTURED BY IGS BORDEN OF APPROVED EQUAL. BEARING BAR SIZES ARE TO BE MINIMUM SIZED RECOMMENDED FOR GIVEN TREAD SPAN.
3. BOLT TREADS TO SUPPORTS USING STAINLESS STEEL FASTENERS.
4. PROVIDE HOT-DIP GALVANIZED FINISH ON ALL TREADS.



530 NORTH TRADE STREET, SUITE 301
WINSTON-SALEM NORTH CAROLINA 27101 P 336.725.1371



CONSTRUCTION DOCUMENTS

Project:
GUILFORD COUNTY
LAW ENFORCEMENT
CENTER
401 W. SYCAMORE STR.
GREENSBORO, NC

Sheet Title:
STEEL FRAMING PLAN FOR
ROOF TOP MECHANICAL UNITS

Issue Date:
06-26-2018

Revisions:

1 ADDENDUM #2
2018-07-19

Project Number:
17-496

Sheet Number:



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