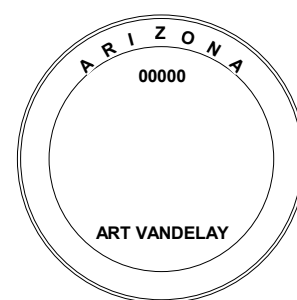


VORTEX BUSINESS CENTER

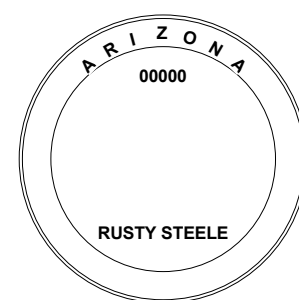
927 W Forest Meadows St. Flagstaff, AZ 86001



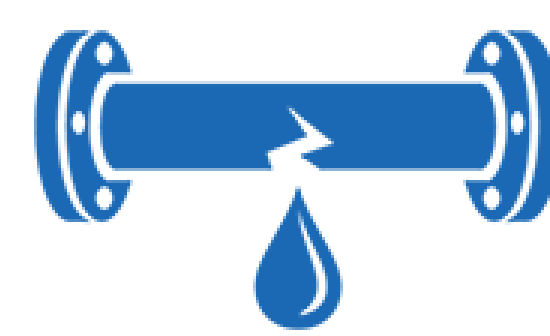
ART VANDELAY ARCHITECTURE & PLANNING
 Architect
 Principal: Art Vandelay
 1618 Golden Section Square
 New York City, New York 10001
 (718) 555-1234



RUSTY STEELE ENGINEERING SERVICES, INC.
 Structural Engineer
 Principal: Rusty Steele
 3141 Braced Frame Crossing
 Buford, Wyoming 82052
 (307) 314-1592

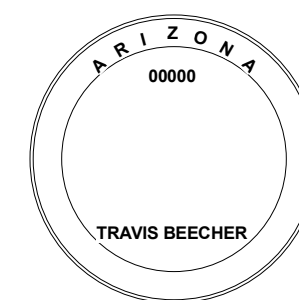


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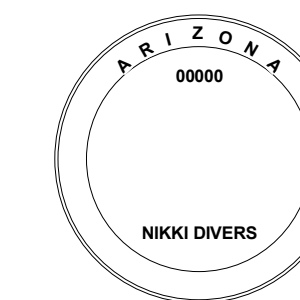
ENGINEERING

SCHRODINGERS CAT ENGINEERING
 Mechanical Engineer
 Principals: Travis Beecher & Sean Simkins
 4560 Formula Avenue
 Phoenix, AZ 85250
 (480) 622-555



ELECTRICAL SOLUTION
 ENGINEERING LLC

ELECTRICAL SOLUTION ENGINEERING, LLC
 Electrical Engineer
 Principal: Nikki Divers
 714 South Channel Drive
 Cincinnati, Ohio 45201
 (513) 850-555



CN3D CONSTRUCTION
 Construction Coordination
 Principals: Jennifer Lanzetti
 355 East 2100 South
 Salt Lake City, UT 84115
 www.cn3dconstruction.com
 (385) 528-2984



Project Name:
 Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
 COVER SHEET

A001

PROJECT GENERAL NOTES

BUILDING CODES: COMPLY WITH REQUIREMENTS OF THE ADOPTED EDITIONS OF THE INTERNATIONAL CODE COUNCIL CODES, THE CODES AND STANDARDS REFERENCED WITHIN THE ICC CODES AND THE AMERICANS WITH DISABILITIES ACT.

DIMENSIONS: METAL STUD WALLS ARE DIMENSIONED TO FACE OF METAL STUD, UNLESS NOTED OTHERWISE. MASONRY WALLS ARE DIMENSIONED TO FACE OF WALL.

FINISHES:
 FLOOR: EXTEND FLOOR FINISHES INTO KNEE SPACES AT CABINETS, UNDER COUNTERS AND UNDER ALL OTHER OBJECTS, WHICH IN A FLOOR PLAN VIEW MAY OBSCURE THE EXTENT OF THE FLOOR FINISH.
 WALLS:
 CEILINGS:
 DOORS, WINDOWS AND FRAMES: UNLESS SPECIFIED TO BE PRE-FINISHED AT THE FACTORY, PROVIDE PAINT FINISH ON HOLLOW METAL DOORS AND HOLLOW METAL DOOR AND WINDOW FRAMES. COLOR AS INDICATED, OR IF NOT INDICATED, THEN AS SELECTED BY THE ARCHITECT. PROVIDE SPECIFIED STAIN FINISH AT WOOD DOORS.
 STANDING AND RUNNING TRIM:

SPECIAL INSPECTIONS: PROVIDE SPECIAL INSPECTIONS OF THE FOLLOWING ARCHITECTURAL COMPONENTS:
 ERECTION AND FASTENING OF EXTERIOR CLADDING
 INTERIOR STOREFRONT SYSTEMS
 SUSPENDED CEILING SYSTEM BRACING

SPECIFICATIONS: REFER TO THE SPECIFICATIONS FOR ADDITIONAL DESCRIPTIONS OF PRODUCTS, MATERIALS AND SYSTEMS NOT INDICATED IN THE DRAWINGS. WHERE THE TERM SEE SPECS, RE: SPECS OR A SIMILAR REFERENCE TO THE SPECIFICATIONS HAS BEEN OMITTED FROM A DESCRIPTION OF A PRODUCT, MATERIAL OR SYSTEM, IT IS INFERRED.

SYMBOLS: WHERE PRODUCT SYMBOLS ARE INDICATED, PROVIDE THE INDICATED PRODUCT AS SPECIFIED, IN THE QUANTITY INDICATED BY THE SYMBOL. WHERE PLUMBING FIXTURES, EQUIPMENT, LIGHT FIXTURES AND OTHER SIMILAR PRODUCTS ARE SHOWN ON ARCHITECTURAL DRAWINGS, REFER TO THE APPROPRIATE DISCIPLINE DRAWINGS FOR TYPE, UTILITIES AND OTHER REQUIREMENTS.

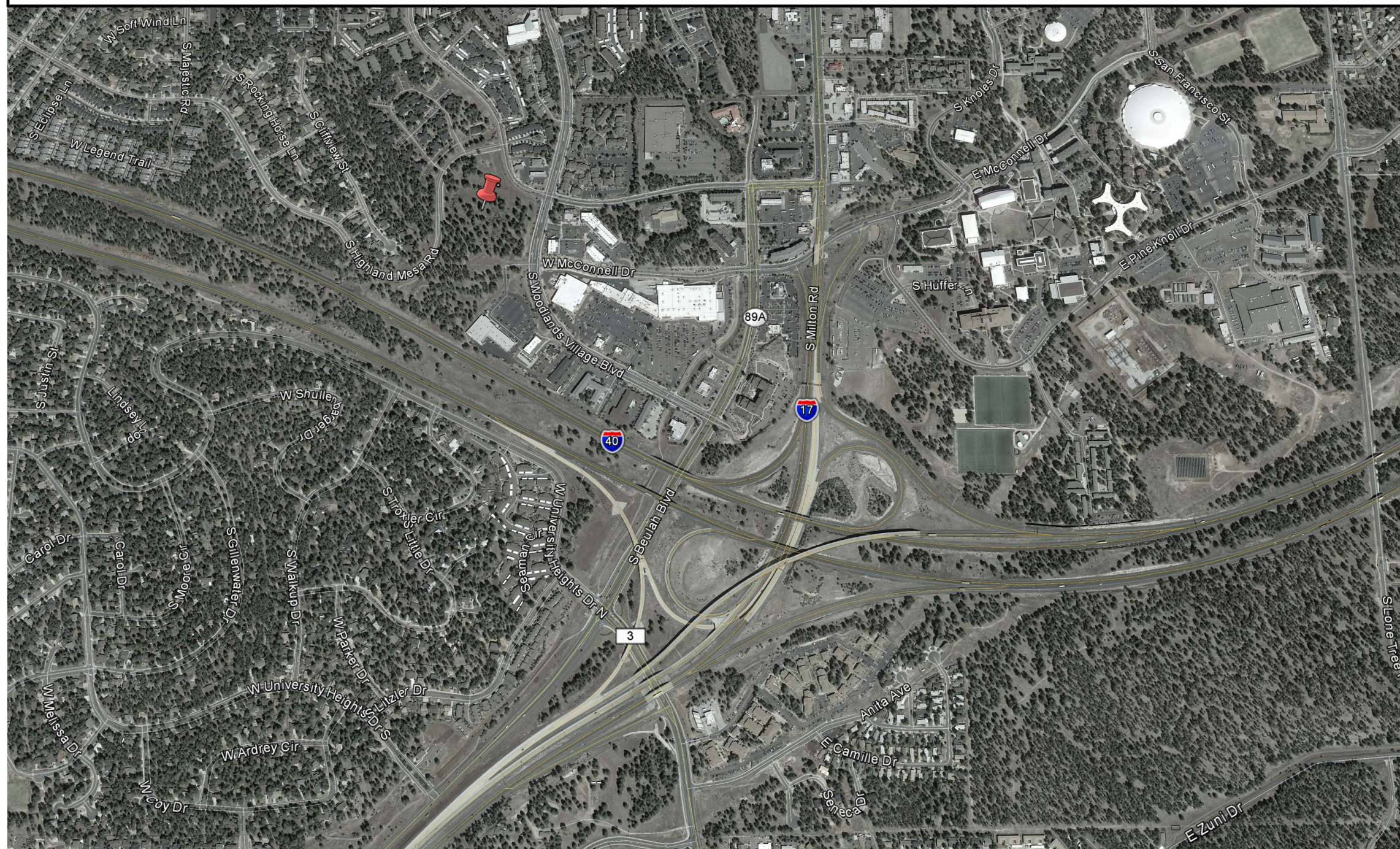
METAL STUD WALLS & PARTITIONS:
 EXTEND INTERIOR WALLS AND PARTITIONS FROM FLOOR TO ROOF OR FLOOR DECK ABOVE, UNLESS NOTED OTHERWISE.
 THE SPECIFICATIONS INDICATE A MINIMUM METAL STUD GAUGE. DESIGN METAL STUD WALLS AND PARTITIONS FOR 5 PSF AND L/360, UNLESS NOTED OTHERWISE, AND INCREASE THE GAUGE ABOVE THE MINIMUM AS REQUIRED BY THE METAL STUD MANUFACTURER FOR ACTUAL WALL HEIGHTS.

DEFERRED SUBMITTAL LIST

CONTRACTOR TO SUBMIT THE FOLLOWING DEFERRED ENGINEERING SUBMITTALS:

STEEL JOISTS
 STEEL STAIR SYSTEMS
 GUARDRAILS AND HANDRAILS
 COLD FORMED FRAMING
 CURTAIN WALL
 INTERIOR STOREFRONT
 ALL GLASS STOREFRONT
 DEMOUNTABLE STOREFRONT
 ACM CLADDING
 FIRE ALARM
 FIRE SUPPRESSION SYSTEMS
 MECHANICAL COMPONENT BRACING
 PIPING & CONDUIT SYSTEMS
 ELECTRICAL COMPONENT BRACING

VICINITY MAP



ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY BE USED)

& AND @ AT	AC ACUSTICAL CEILING TILE ADJ ADJUSTABLE AFF ABOVE FINISH FLOOR ALT ALTERNATE ALUM ALUMINUM APPROX APPROXIMATE ARCH ARCHITECTURAL	BD BOARD BLDG BUILDING BLK BLOCK (ING) BO BOTTOM OF BRG BEARING BSMT BASEMENT BS BOTH SIDES BW BOTH WAYS	CB CABINET CB CATCH BASIN CCSA CUSTOM COLOR SELECTED BY ARCHITECT CG CORNER GUARD CHAM CHAMFER CJ CONTROL JOINT CL CENTER LINE CLG CEILING CLR CLEAR CM CONSTRUCTION MANAGER COL COLUMN COMP COMPUTER CONC CONCRETE CONT CONTINUOUS CMU CONCRETE MASONRY UNIT CSBA COLOR SELECTED BY ARCHITECT CT CERAMIC TILE	D DEPTH DB DECK BEARING DBL DOUBLE DEPT DEPARTMENT DF DRINKING FOUNTAIN DIA DIAMETER DM DIMENSION DN DOWN DRN DRAIN DTU DET DETAIL DW DISHWASHER DWG DRAWING	E EAST (E) EXISTING EA EACH EFS EXTERIOR INSULATION SYSTEM	EJ EXPANSION JOINT ELEC ELECTRICAL EQ EQUAL EQUIP EQUIPMENT EVAP EVAPORATIVE EXIST EXISTING EXP EXPANSION EXT EXTERIOR EWC ELECTRIC WATER COOLER	FA FIRE ALARM FD FLOOR DRAIN FDN FOUNDATION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FG FINISH GRADE FH FIRE HYDRANT	FIN FINISHED FLR FLOOR F.O. FACE OF FT FOOT, FEET FRP FIBER REINFORCED PANEL FRY FIRE RETARDANT TREATED WOOD FTG FOOTING FV FIELD VERIFY	GA GAUGE GALV GALVANIZED GB GRAB BAR GC GENERAL CONTRACTOR GFCR GLASS/FIBER REINFORCED PANEL GYP GYPSUM GWB GYPSUM WALLBOARD	HB HOSE BIBB HC HANDICAP ACCESSIBLE HDW HARDWARE HDF HIGH DENSITY FIBERBOARD HM HOLLOW METAL H HEIGHT HOR HORIZONTAL	ID INSIDE DIAMETER ICF INSULATED CONCRETE FORM IN INCH INCL INCLUDE INFO INFORMATION INT INTERIOR INSUL INSULATE, (I), (ION) INV INVERT	JST JOIST JT JOINT	LAV LAVATORY LB/LBSPOUND (S)	MAT MATERIAL (S) MAX MAXIMUM MDF MEDIUM DENSITY FIBERBOARD MECH MECHANICAL MEMB MEMBRANE MEZZ MEZZANINE MFR MANUFACTURER MGR MANAGER MIN MINIMUM MIR MIRROR MISC MISCELLANEOUS MO MASONRY OPENING MTD MOUNT, (ED) MTL METAL MW MICROWAVE	N NORTH NIC NOT IN CONTRACT NO NUMBER NOM NOMINAL NRC NOISE REDUCTION COEFFICIENT NTS NOT TO SCALE	OC ON CENTER OD OUTSIDE DIAMETER OFCI OWNER FURNISHED/ CONTRACTOR INSTALLED OFD OVERFLOW DRAIN OH OVERHEAD OPG OPENING OPP OPPOSITE OSB ORIENTED STRAND BOARD OUNC OUNCE	PERI PERIMETER PERM PERMANENT PL PLATE PLAM PLASTIC LAMINATE PNL PANEL P.O. POINT OF PR PAIR PT POST TENSIONED PART PARTITION PLY PLYWOOD	QT QUARRY TILE	R / RAD RADIUS RCP REFLECTED CEILING PLAN REC RECESSED REF REFERENCE	REFG REFRIGERATOR REINFR REINFORCE (ED) REM REMOVE (ED) REPL REPLACE REQD REQUIRED REV REVISION (S) RM ROOM RO ROUGH OPENING	S SOUTH SALV SALVAGE (ED) SECT SECTION SF SQUARE FOOT SIM SIMILAR SLNT SEALANT SPEC SPECIFICATION (S) SQ SQUARE SS STAINLESS STEEL STC SOUND TRANSMISSION CLASS STD STANDARD STL STEEL STOR STORAGE STRUC STRUCTURE (AL) SUSP SUSPENDED SYM SYMMETRY (ICAL)	T THICKNESS T & B TOP AND BOTTOM T & G TONGUE AND GROOVE TBD TO BE DETERMINED TEMP TEMPORARY THRU THROUGH T.O. TOP OF TRANS TRANSFORMER TS TUBE STEEL TYP TYPICAL	UNF UNFINISHED UNO UNLESS OTHERWISE NOTED	VAR VARIES VB VAPOR BARRIER VCT VINYL COMPOSITION TILE VERT VERTICAL VEST VESTIBULE VWC VINYL WALLCOVERING	W WEST W WIDTH W/ WITH WC WATER CLOSET WD WOOD W/O WITHOUT WSCOT WAINSCOT WWF WELDED WIRE FABRIC
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SHEET INDEX

Sheet #	Sheet Name	Classification	Sheet Issue
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A002	GENERAL INFORMATION	General	10/28/2016
A003	LIFE SAFETY PLANS	General	10/28/2016
A100	ARCHITECTURAL SITE PLAN	Plans	10/28/2016
A111	FIRST FLOOR - DIMENSION PLAN	Plans	10/28/2016
A112	FIRST FLOOR - ANNOTATED PLAN	Plans	10/28/2016
A113	FIRST FLOOR - REFLECTED CEILING PLAN	Plans	10/28/2016
A121	SECOND FLOOR - DIMENSION PLAN	Plans	10/28/2016
A122	SECOND FLOOR - ANNOTATED PLAN	Plans	10/28/2016
A123	SECOND FLOOR - REFLECTED CEILING PLAN	Plans	10/28/2016
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A132	THIRD FLOOR - ANNOTATED PLAN	Plans	10/28/2016
A133	THIRD FLOOR - REFLECTED CEILING PLAN	Plans	10/28/2016
A141	PENTHOUSE FLOOR PLANS	Plans	10/28/2016
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A202	EXTERIOR ELEVATIONS	Elevations	10/28/2016
A203	EXTERIOR ELEVATIONS	Elevations	10/28/2016
A204	EXTERIOR ELEVATIONS	Elevations	10/28/2016
A205	EXTERIOR ELEVATIONS	Elevations	10/28/2016
A301	BUILDING SECTIONS	Sections	10/28/2016
A302	BUILDING SECTIONS	Sections	10/28/2016
A303	BUILDING SECTIONS	Sections	10/28/2016
A304	BUILDING SECTIONS	Sections	10/28/2016
A351	WALL SECTIONS	Sections	10/28/2016
A500	ADA MOUNTING HEIGHTS	Details & Schedules	10/28/2016
A510	TYPICAL SECTION DETAILS	Details & Schedules	10/28/2016
A550	SECTION DETAILS	Details & Schedules	10/28/2016
A560	PLAN DETAILS	Details & Schedules	10/28/2016
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EE501	ELECTRICAL DETAILS	Detail	11/4/2016
EE601	PANEL SCHEDULES	Schedules	11/4/2016
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EL102	ELECTRICAL LIGHTING PLAN LEVEL 02	Floor Plan	11/4/2016
EL103	ELECTRICAL LIGHTING PLAN LEVEL 03	Floor Plan	11/4/2016
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MH101	OVERALL MECHANICAL PLAN LEVEL 01	Plans	10/11/2016
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MP103	MECHANICAL PIPE PLAN LEVEL 3	PLANS	09/27/16
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SE201	FRAMING ELEVATIONS	Elevations	10/11/2016
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SE203	HIGH ROOF FRAMING PLAN & ELEVATIONS	Elevations	10/11/2016
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SE521	ROOF FRAMING DETAILS	Details	10/11/2016
SE522	ROOF FRAMING DETAILS	Details	10/11/2016
SE601	STRUCTURAL SCHEDULES	Schedules	10/11/2016
SE602	GRAPHICAL COLUMN SCHEDULE	Schedules	10/11/2016

CODE ANALYSIS

APPLICABLE CODES

BOOK	YEAR	BOOK	YEAR
International Building Code	2012 IBC	National Electrical Code	NEC 2011
International Mechanical Code	2012 IMC	Uniform Code for Building Conservation	N/A
International Plumbing Code	2012 IPC	ADA Accessibility Guidelines	ANSI A117.1 2009
International Fire Code	2012 IFC		
International Energy Conservation Code	2012 IEC		

Occupancy and Group: _____ B OCCUPANCY
 Change in Use: Yes _____ No Mixed Occupancy: Yes _____ No
 A. Special Use and Occupancy (e.g. High Rise, Covered Mall): _____
 B. Seismic Design Category: Design Wind Speed: 90 MPH - 3 SEC. GUST EXPOSURE C
 C. Type of Construction (circle one):

I	II	III	IV	V	VI	
A	B	A	B	HT	A	B

 D. Fire Resistance Rating: Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: 0 South: 0 East: 0 West: 0
 E. Mixed Occupancies: Nonseparated Uses: NO
 F. Sprinklers: IBC Section 903.3.1 Required: Provided: Type of Sprinkler System: NFPA 13
 G. Number of Stories: 3 Building Height: 63'
 H. Actual Area per floor (square feet):

GROUP B	
1	7,096 SQ. FT.
2	7,639 SQ. FT.
3	8,667 SQ. FT.

 Tabular Area: GROUP B 21,402 SQ. FT. Total
 L. Area Modifications: None
 J. Fire Resistance Requirements for Building Elements (hours): Table 601

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	1		Floors - Ceiling Floors	1	
Interior Bearing Walls	1		Ceilings - Ceiling Roofs	1	
Exterior Non-Bearing Walls	1		Exterior Door and Windows	0	U469
Structural Frame	1		Shaft Enclosures	2	U419
Partitions - Permanent	0		Fire Walls	0	U451
Fire Barriers			Fire Partitions	-	U451
			Smoke Partitions	-	U451

 K. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) 3 (f) 3 Provided (m) 3 (f) 3
 b) Lavatories - Required (m) 6 (f) 6 Provided (m) 6 (f) 6
 c) Bath Tubs or Showers: 0 Service Sinks: 3
 d) Drinking Fountains: 12
 FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts 1 through 117 - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 a) High Rise Requirements.
 b) Atriums.
 c) Performance Based Criteria.
 d) Means or Egress Analysis.
 e) Fire Assembly Locator Sheet.
 f) Exterior and Interior Accessibility Route.
 g) Fire Stopping, Including Tested Design Number.



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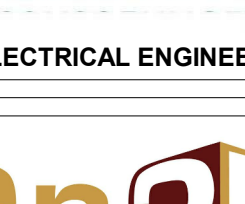
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MECHANICAL ENGINEER



ELECTRICAL SOLUTION ENGINEERING LLC



CONTRACTOR



ART VANDELAY



< LOBBY >



< OPEN OFFICES >



< BREAK ROOM >



< CONFERENCE ROOM >



< TRAINING ROOM >



< OFFICES >



< HALL / FILLING >

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
GENERAL INFORMATION

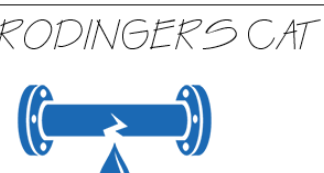
A002



ARCHITECT



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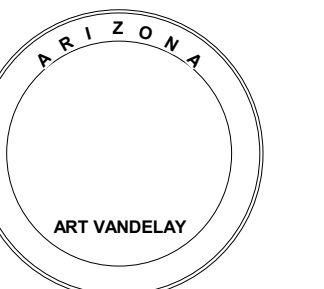
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Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
LIFE SAFETY PLANS

A003

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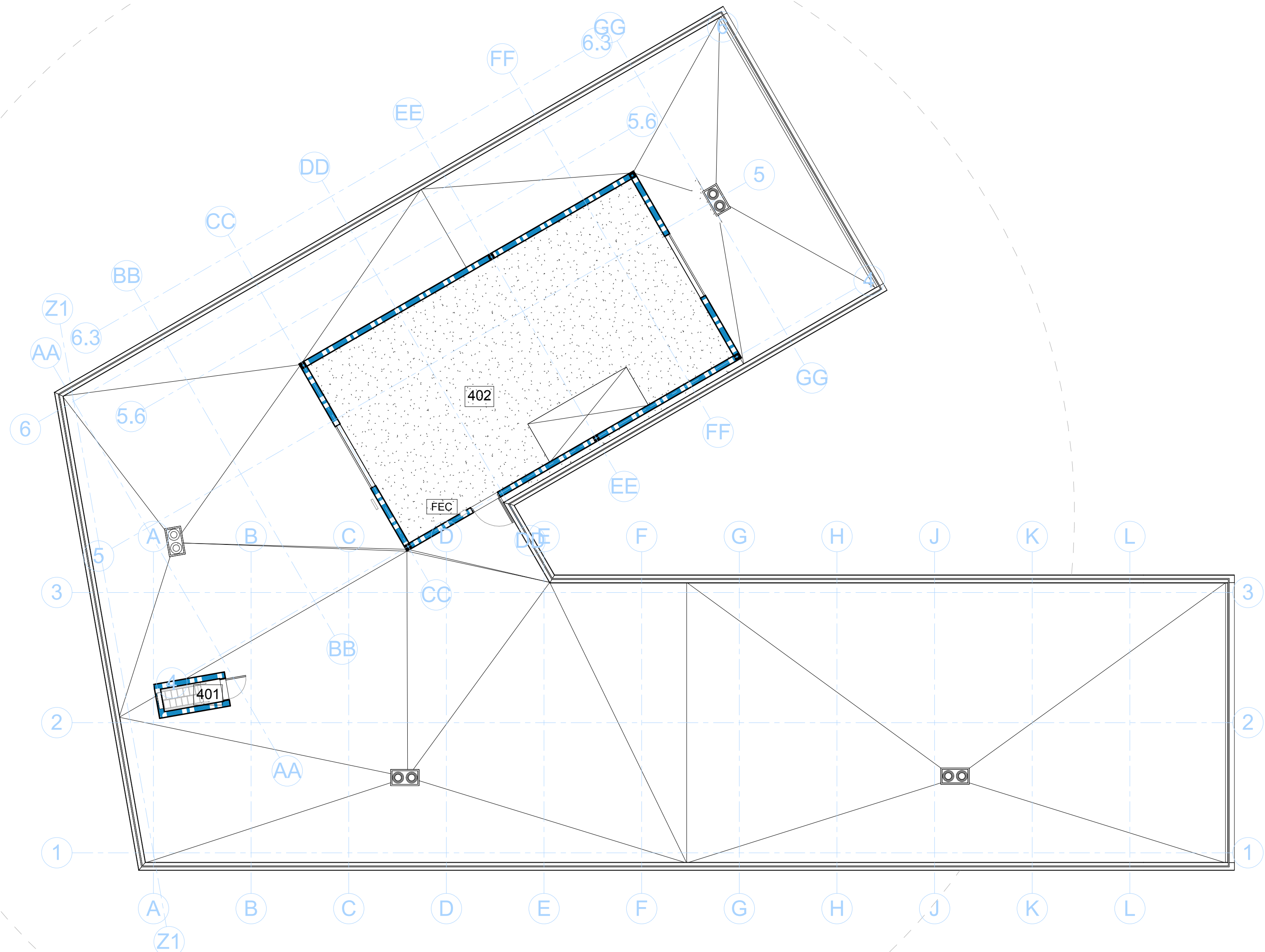
1 FIRST FLOOR - LIFE SAFETY PLAN
SCALE= 1" = 10'-0"



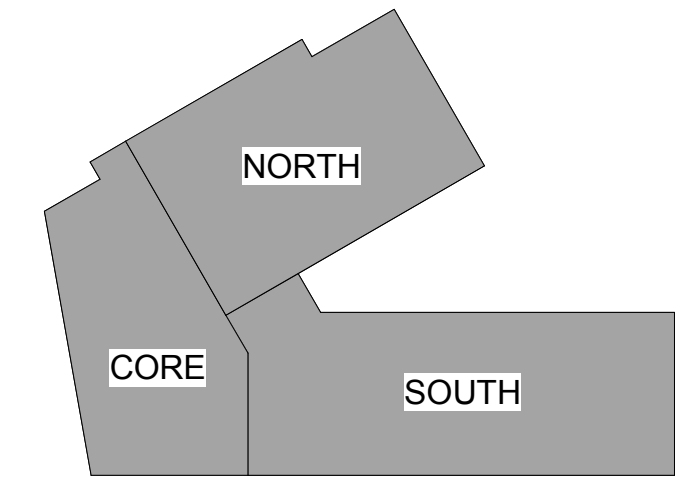
2 SECOND FLOOR - LIFE SAFETY PLAN
SCALE= 1" = 10'-0"



3 THIRD FLOOR - LIFE SAFETY PLAN
SCALE= 1" = 10'-0"



4 ROOF & MECHANICAL PENTHOUSE LIFE SAFETY PLAN
SCALE= 1" = 10'-0"



KEY PLAN

SITE PLAN NOTES

Landscaping

1. Preserve and maintain existing trees as noted.

Concrete Flatwork

1. Ensure all sidewalk surfaces are level with smooth transition at control joints.

2. All curb radii and dimensions are to face of curb unless noted otherwise.

3. All work shall be done in accordance with the city of Flagstaff, Arizona design and construction standards. For areas not covered by published specifications construction must comply with the current APWA standards and specifications. The work shall also comply with the project plans, project specifications, and project geotechnical engineering report, whichever is the most stringent.

4. All striping, pavement markings, and signage to comply with the current manual on traffic control devices or local code, whichever is the most stringent.

5. Contractor is responsible for performing work on or adjacent to a public road to provide, install, and maintain appropriate traffic control devices, as well as additional traffic control devices that may be required to insure safe and efficient movement of traffic and pedestrians through or around the work area and to provide maximum protection and safety to road workers.

Parking:

1. 42 Regular parking stalls + 4 ADA parking stalls = 46 parking stalls.



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SCHRODINGER'S CAT



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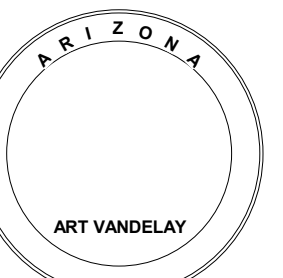
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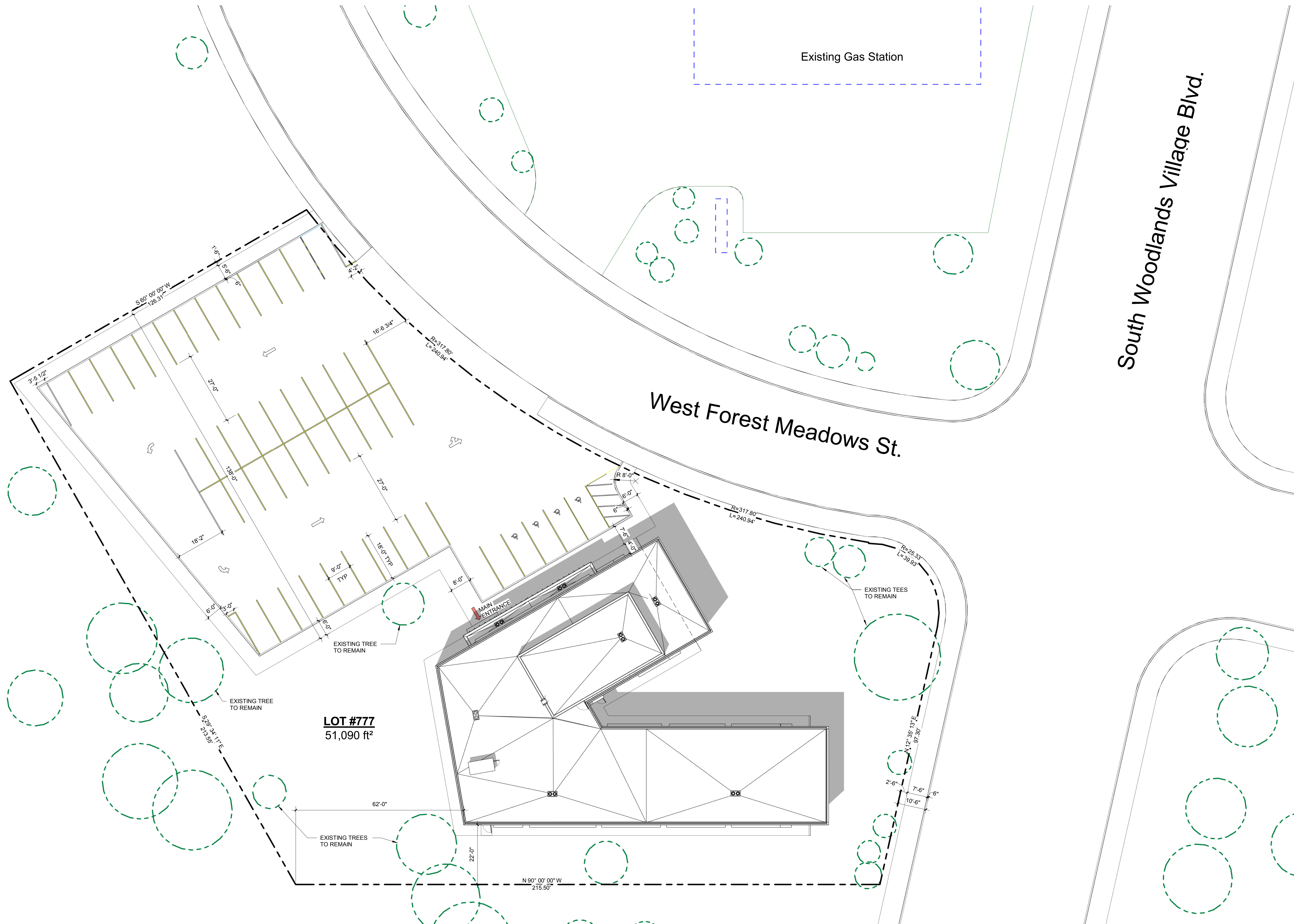


CONSTRUCTION

CONTRACTOR

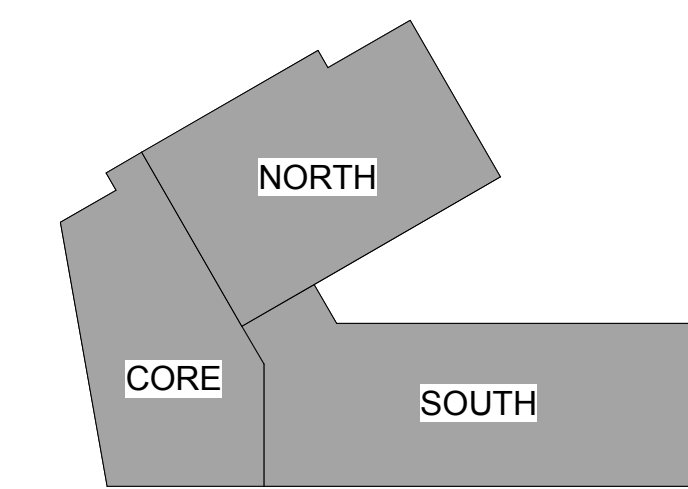
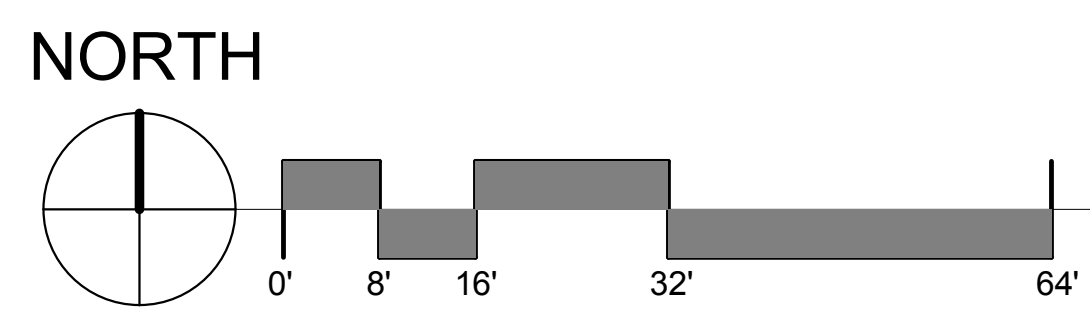


ART VANDELAY



LOT #777
51,090 ft²

1 ARCHITECTURAL SITE PLAN
SCALE: 1/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
ARCHITECTURAL SITE PLAN

A100

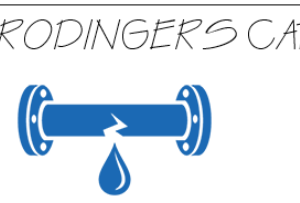
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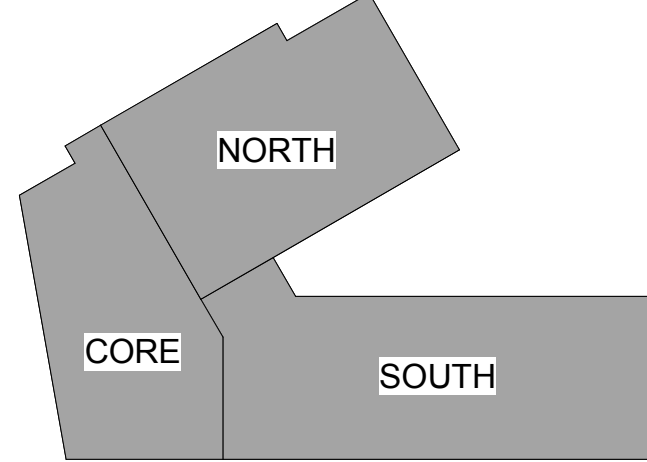
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ART VANDELAY



1 FIRST FLOOR - DIMENSION PLAN
SCALE= 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

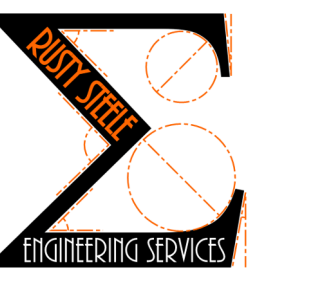
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FIRST FLOOR - DIMENSION PLAN

A111

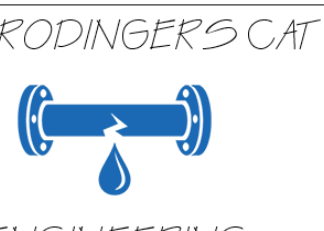
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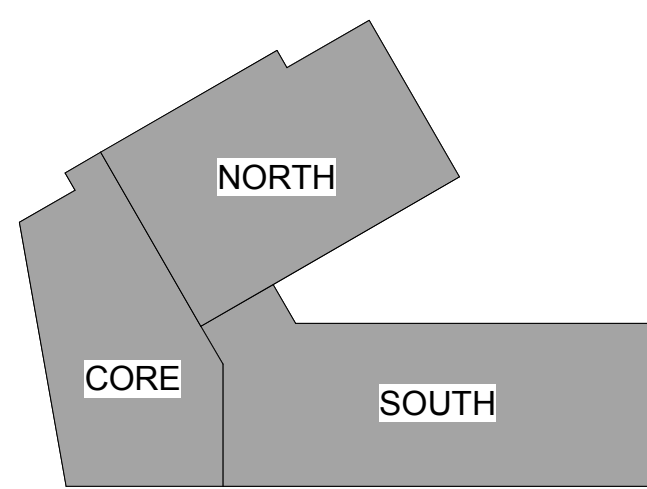
CONTRACTOR



ART VANDELAY



1 FIRST FLOOR - ANNOTATION PLAN
SCALE= 3/16" = 1'-0"



KEY PLAN

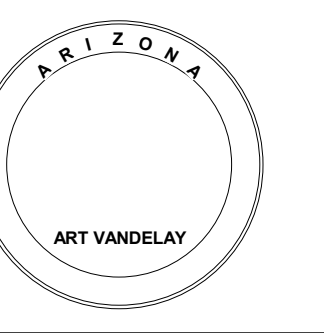
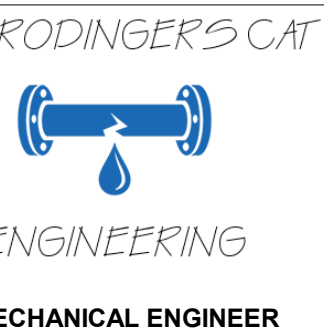
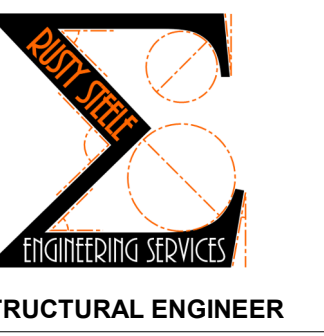
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

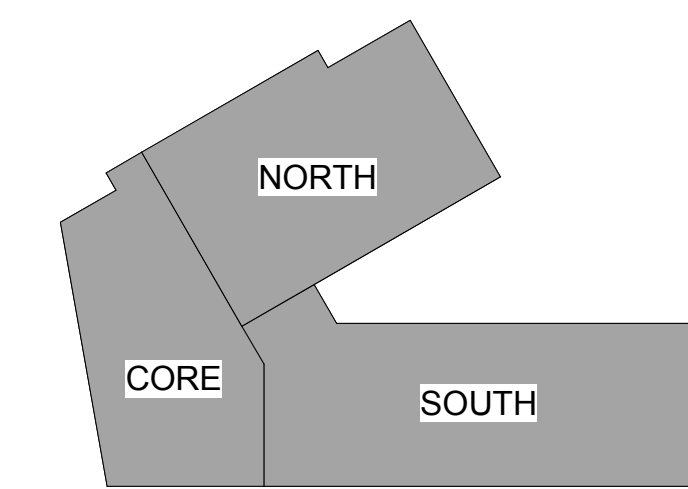
Sheet Name:
FIRST FLOOR - ANNOTATED PLAN

A112

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1 Reflected Ceiling Plan - First Floor
SCALE= 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
FIRST FLOOR - REFLECTED CEILING PLAN

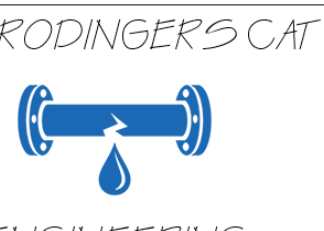
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ARCHITECT



STRUCTURAL ENGINEER



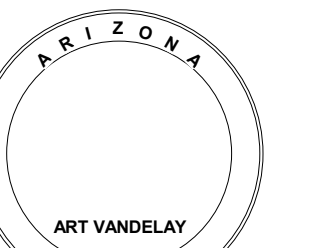
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ELECTRICAL ENGINEER



CONTRACTOR



ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

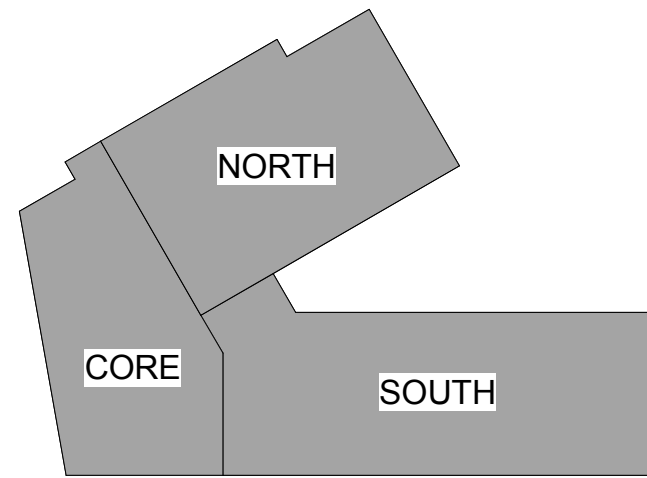
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SECOND FLOOR - DIMENSION PLAN

A121

Print Date: 1/13/2017 3:31:12 PM



1 SECOND FLOOR - DIMENSION PLAN
SCALE= 3/16" = 1'-0"



KEY PLAN



ARCHITECT



STRUCTURAL ENGINEER

SCHRODINGER'S CAT



ENGINEERING

MECHANICAL ENGINEER



ELECTRICAL SOLUTION ENGINEERING LLC

ELECTRICAL ENGINEER



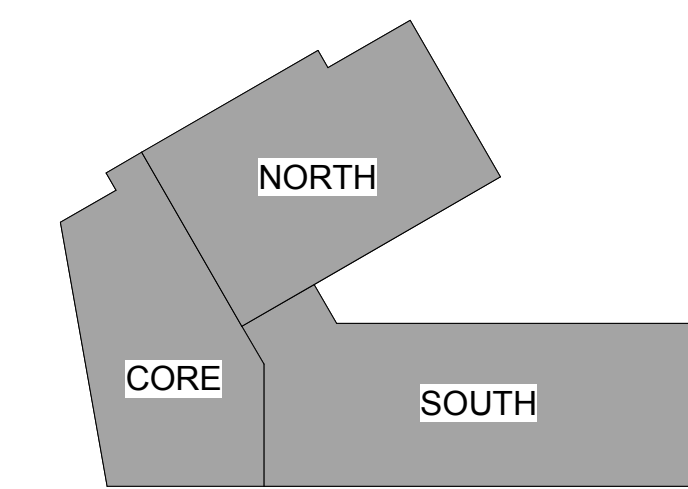
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ART VANDELAY



1 SECOND FLOOR - ANNOTATION PLAN
SCALE= 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
SECOND FLOOR - ANNOTATED PLAN

A122

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

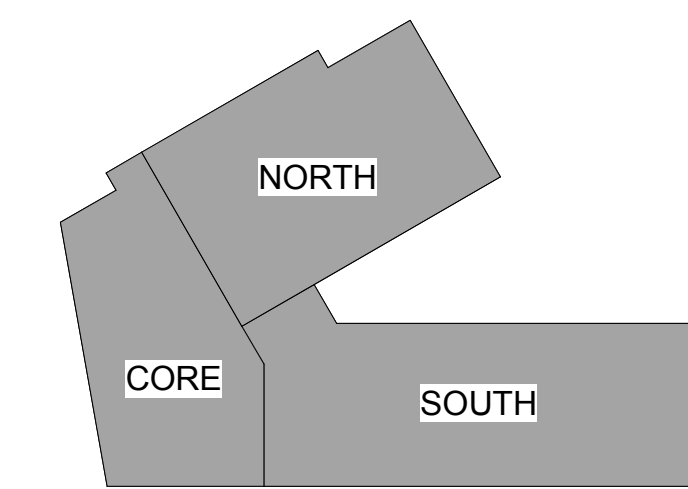
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SECOND FLOOR - REFLECTED CEILING PLAN

A123

Print Date: 11/13/2017 3:31:27 PM



1 Reflected Ceiling Plan - Second Floor
SCALE= 3/16" = 1'-0"



KEY PLAN

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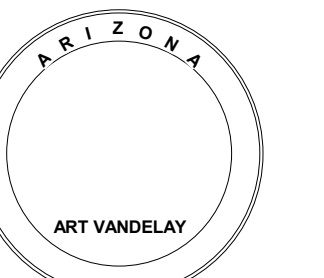


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ELECTRICAL ENGINEER



CONTRACTOR



ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date
1	Revision 1	Date 1

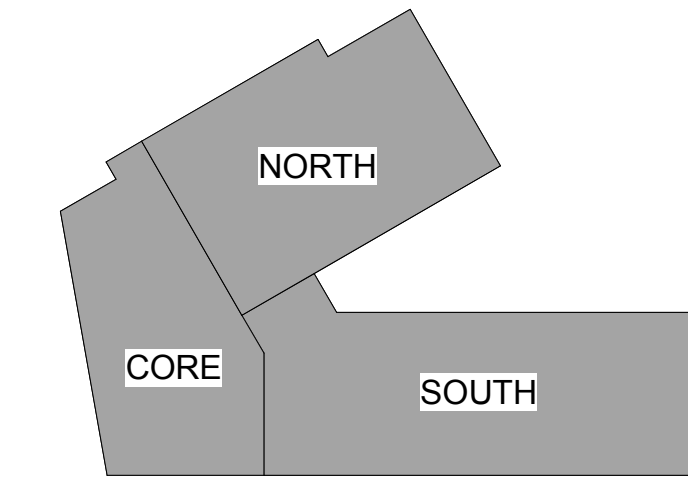
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THIRD FLOOR - DIMENSION PLAN

A131

Print Date: 1/13/2017 3:31:34 PM



1 THIRD FLOOR - DIMENSION PLAN
SCALE= 3/16" = 1'-0"



KEY PLAN



ARCHITECT



STRUCTURAL ENGINEER

SCHRODINGER'S CAT



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MECHANICAL ENGINEER

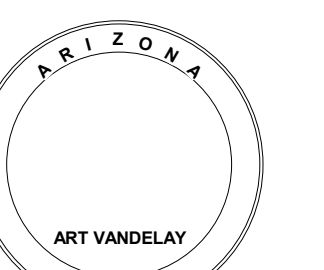


ELECTRICAL SOLUTION ENGINEERING LLC

ELECTRICAL ENGINEER



CONTRACTOR



ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

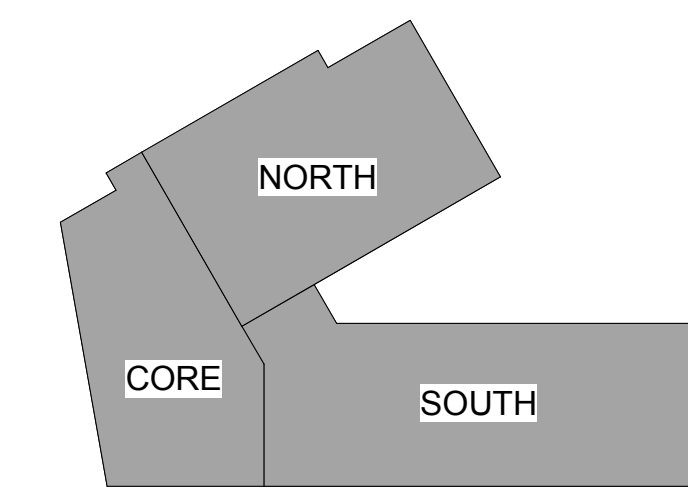
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THIRD FLOOR - ANNOTATED PLAN

A132

Print Date: 1/14/2017 11:45:56 AM



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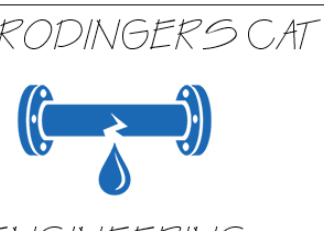
KEY PLAN



ARCHITECT



STRUCTURAL ENGINEER



MECHANICAL ENGINEER



ELECTRICAL ENGINEER



CONTRACTOR



ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

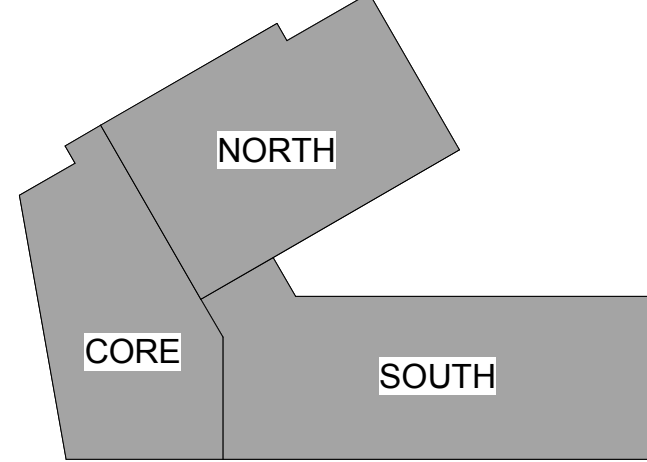
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THIRD FLOOR - REFLECTED CEILING PLAN

A133

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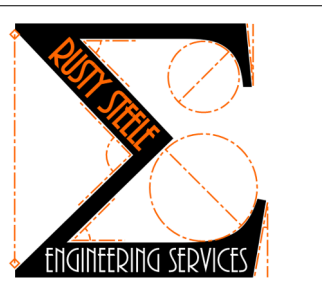
1 Reflected Ceiling Plan - Third Floor
SCALE = 3/16" = 1'-0"



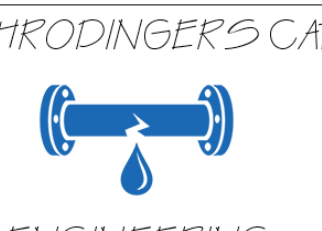
KEY PLAN



ARCHITECT



STRUCTURAL ENGINEER



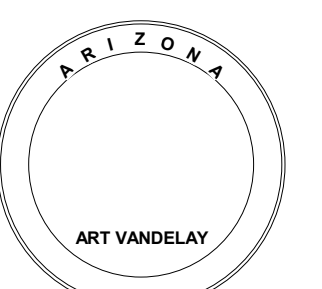
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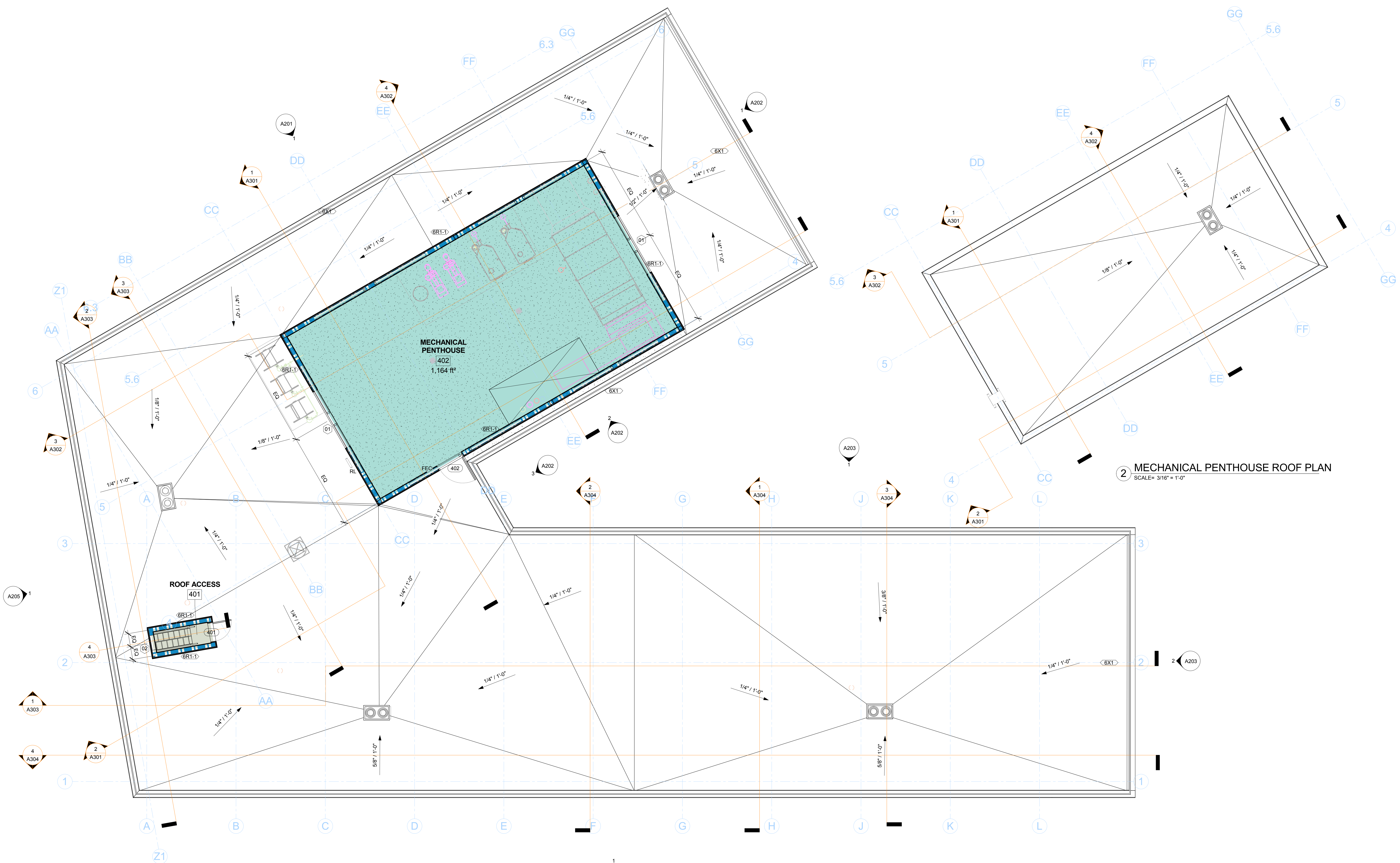
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CONTRACTOR

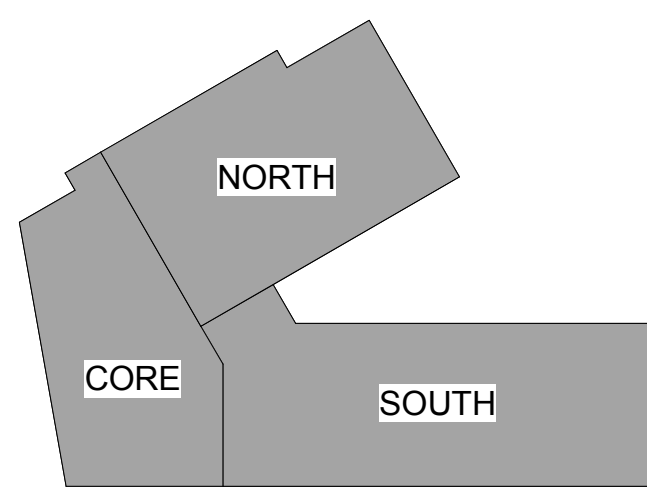


ART VANDELAY



1 ROOF & MECHANICAL PENTHOUSE PLAN
SCALE= 3/16" = 1'-0"

2 MECHANICAL PENTHOUSE ROOF PLAN
SCALE= 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

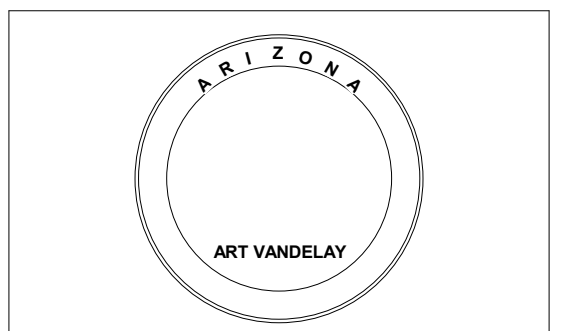
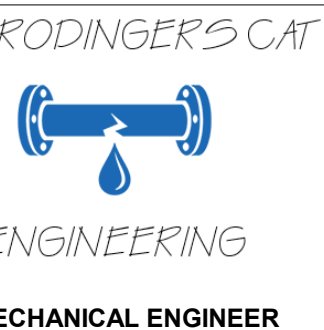
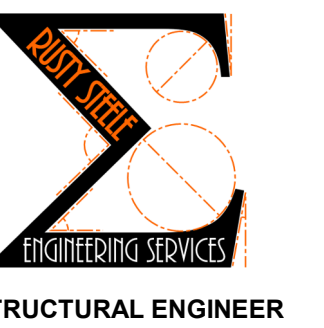
Revision Schedule		
No.	Description	Date

Sheet Name:
PENTHOUSE/ROOF PLANS

A141

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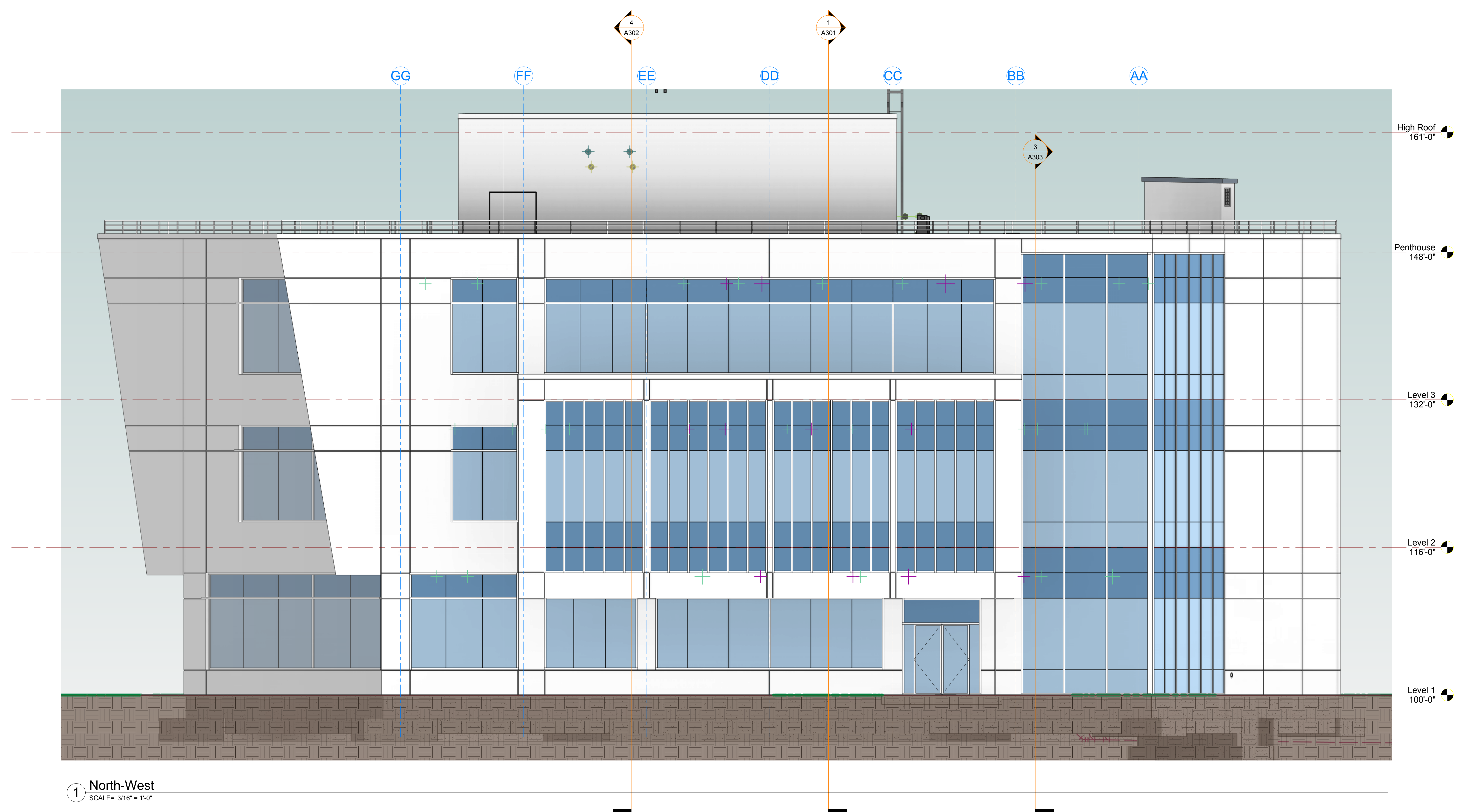
Project Name:
Vortex Business Center

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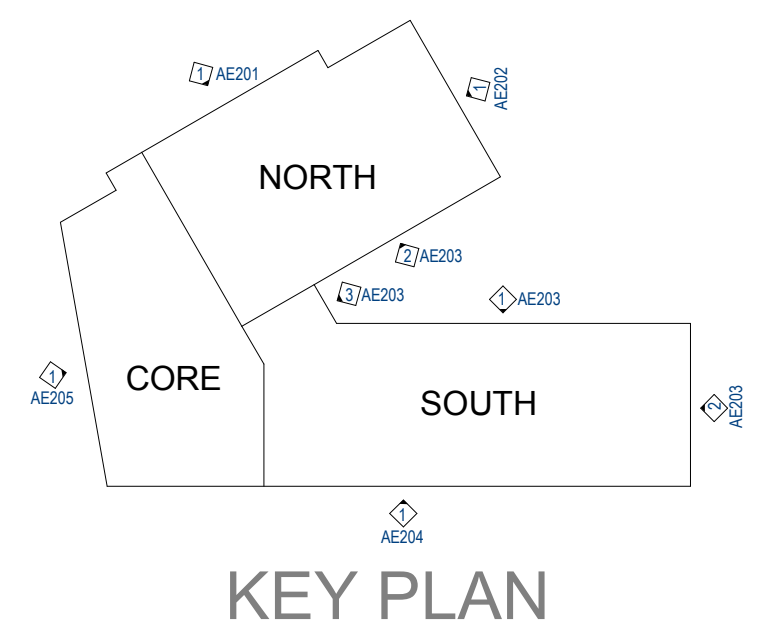
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No.	Description	Date

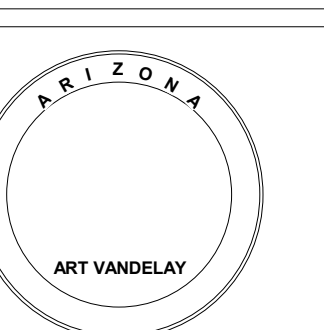
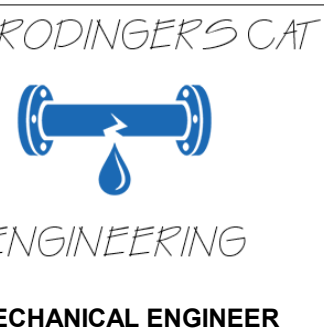
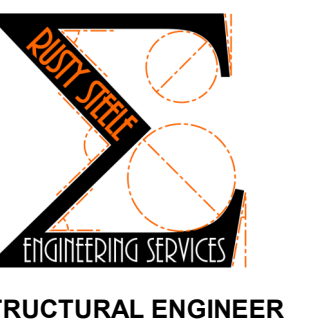
Sheet Name:
EXTERIOR ELEVATIONS

A201



① North-West
SCALE= 3/16" = 1'-0"





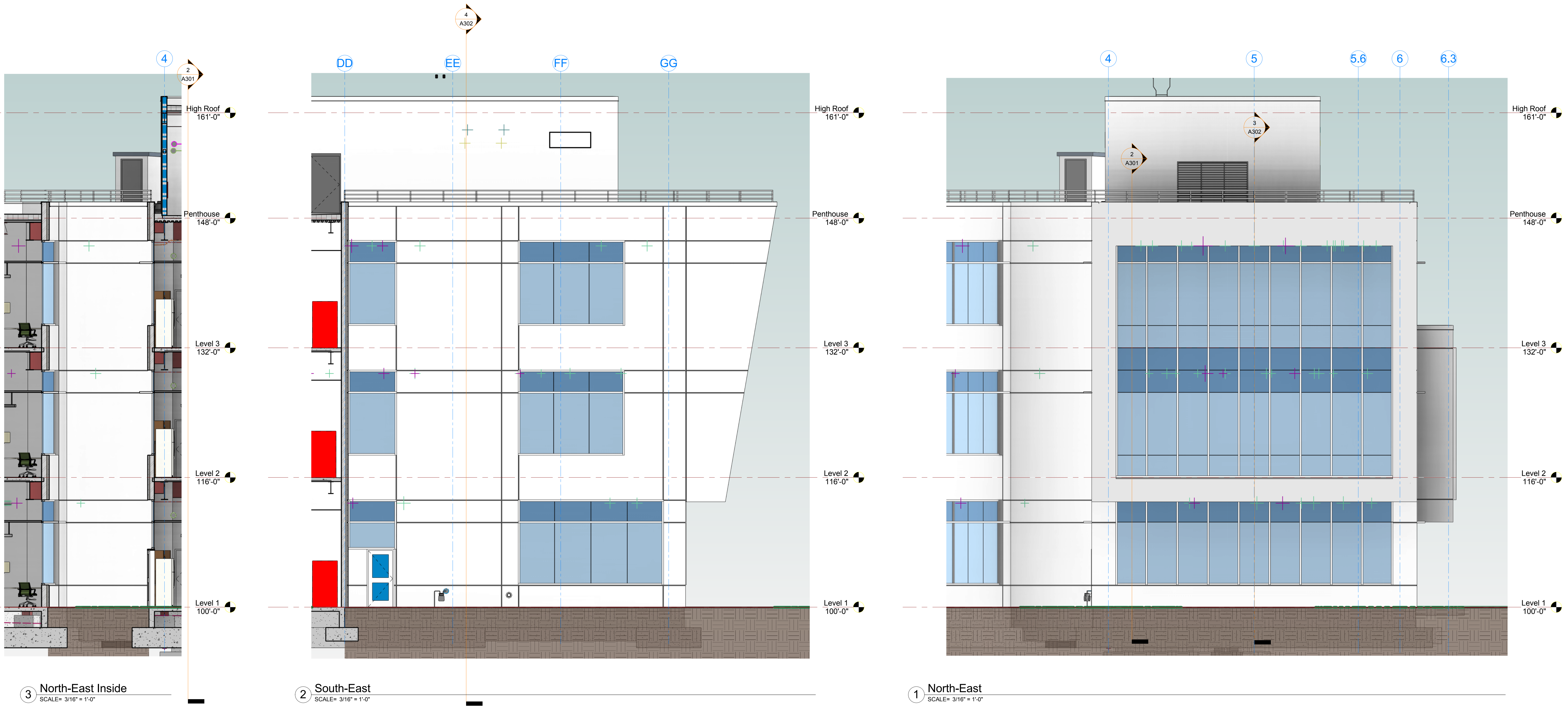
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
EXTERIOR ELEVATIONS

A202

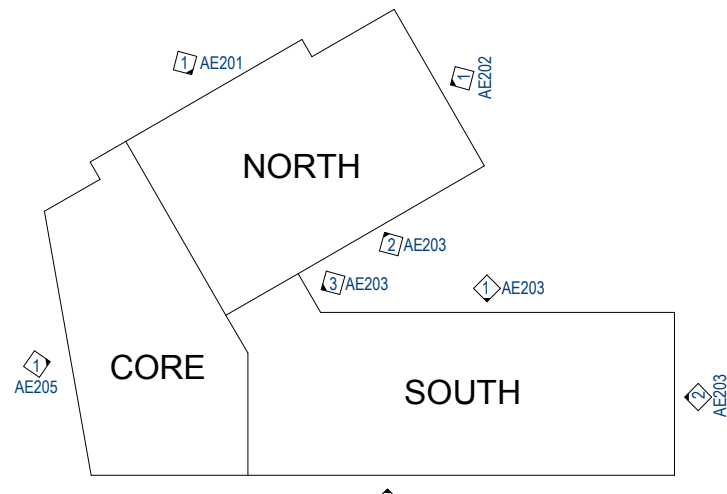
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3 North-East Inside
SCALE= 3/16" = 1'-0"

2 South-East
SCALE= 3/16" = 1'-0"

1 North-East
SCALE= 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

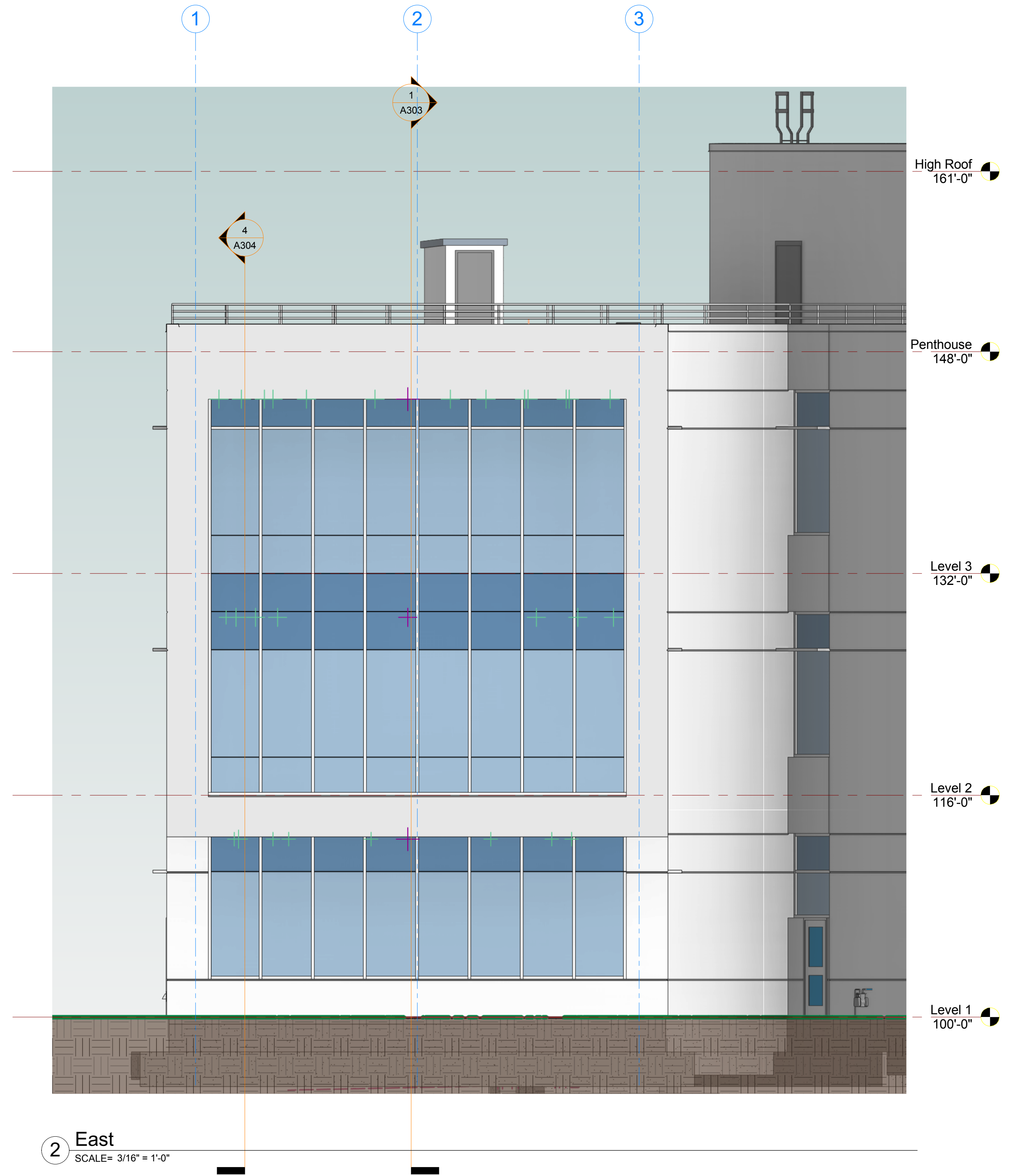
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Revision Schedule		
No.	Description	Date

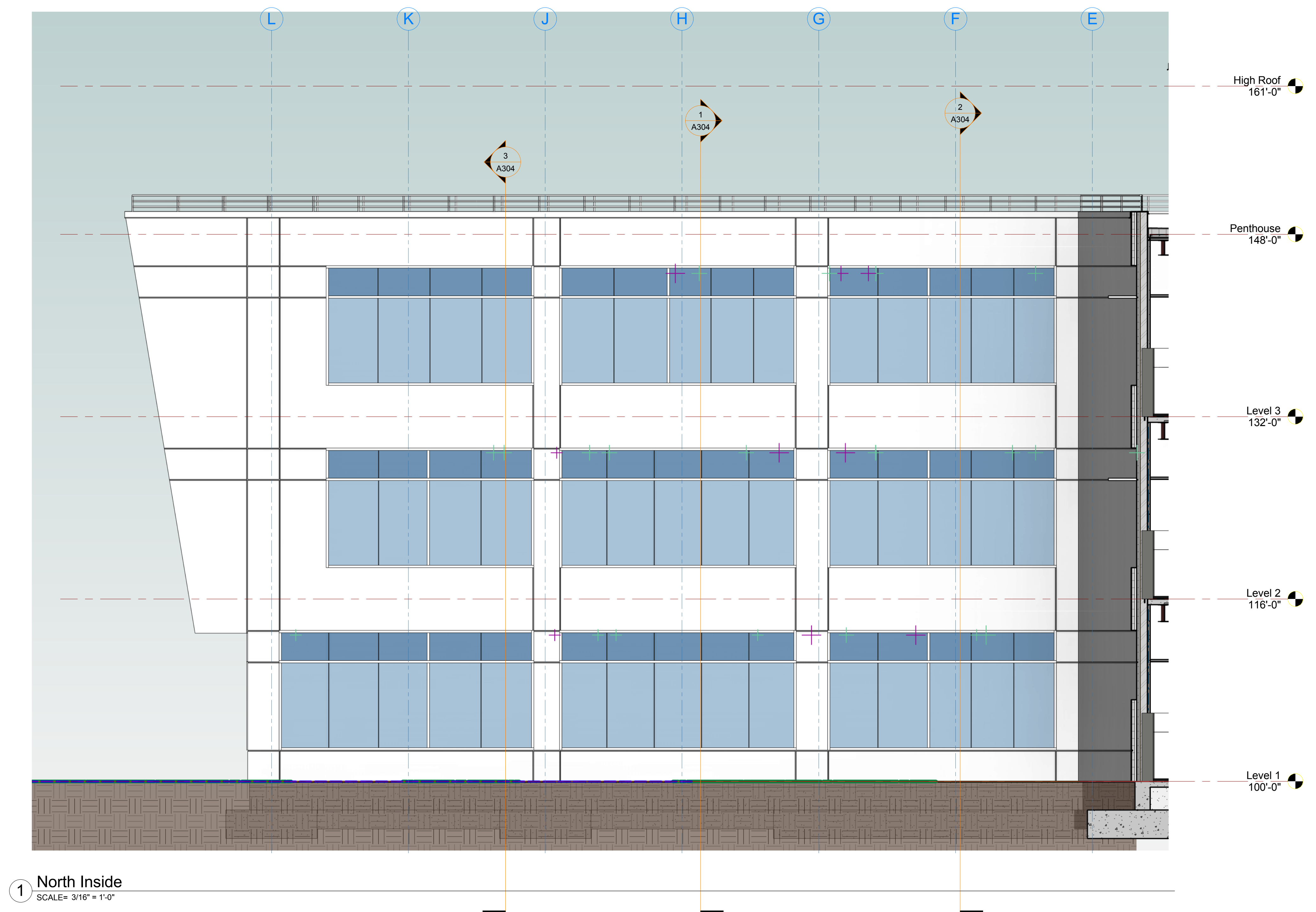
Sheet Name:
EXTERIOR ELEVATIONS

A203

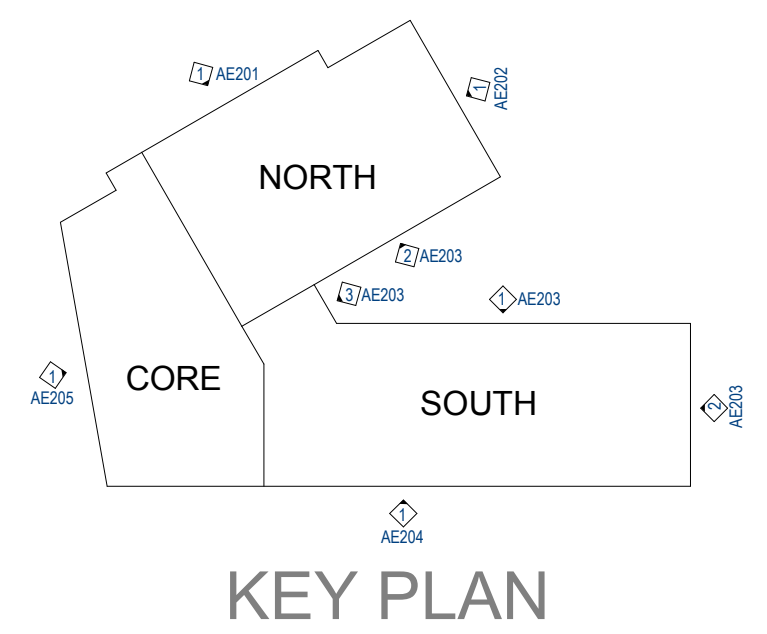
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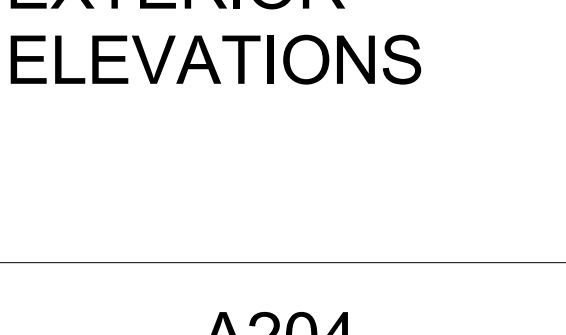
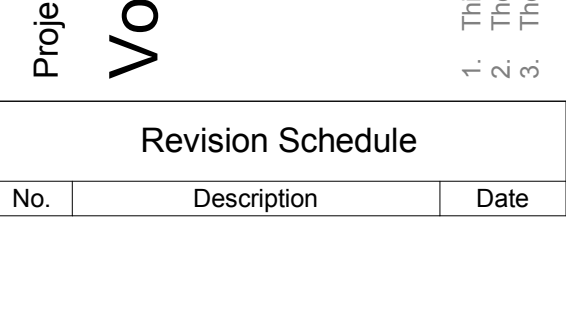
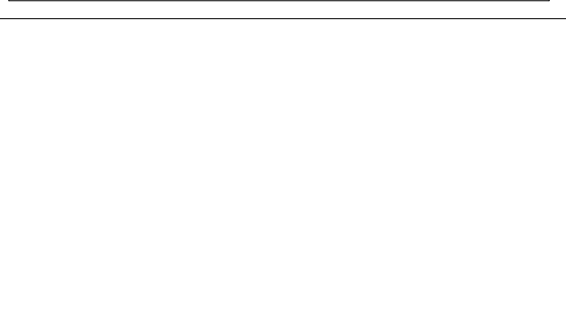
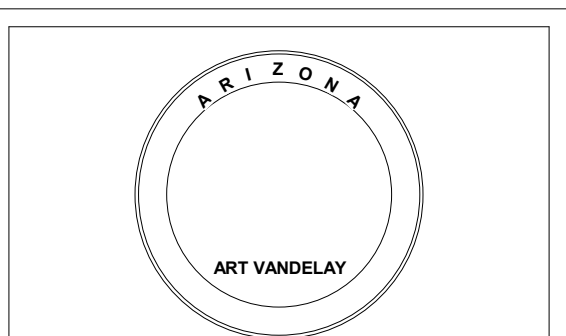
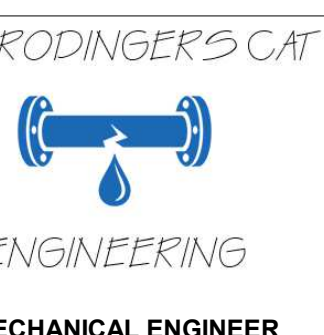
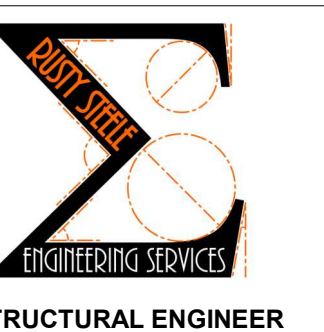
② East
SCALE= 3/16" = 1'-0"



① North Inside
SCALE= 3/16" = 1'-0"



KEY PLAN



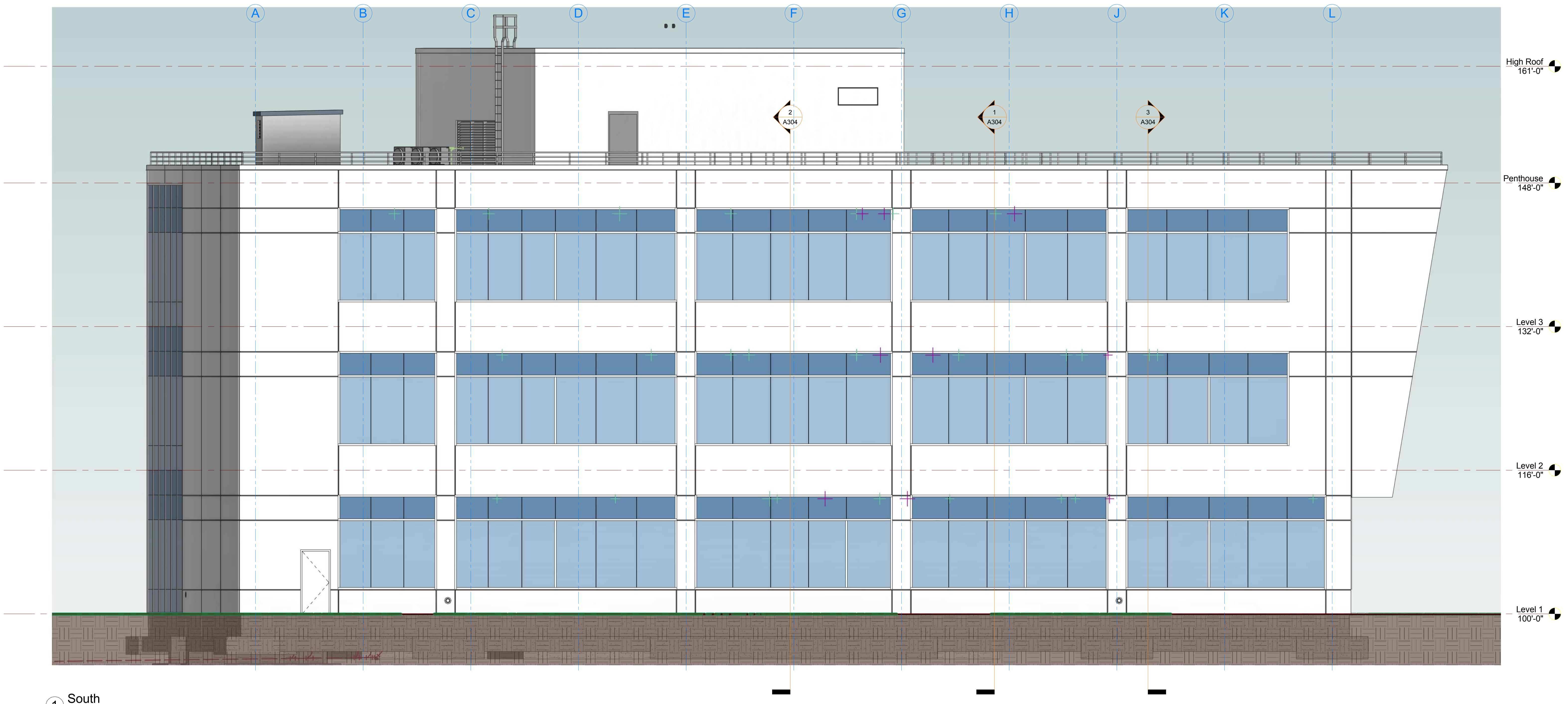
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Revision Schedule

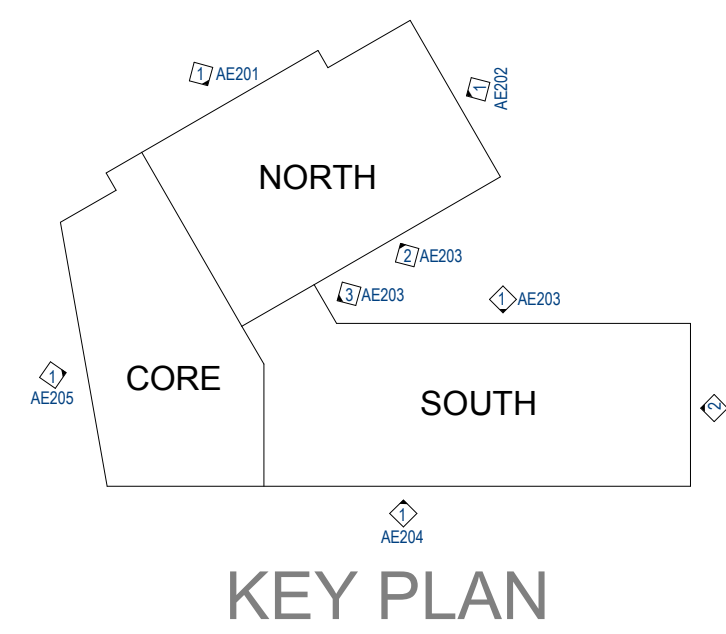
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EXTERIOR ELEVATIONS

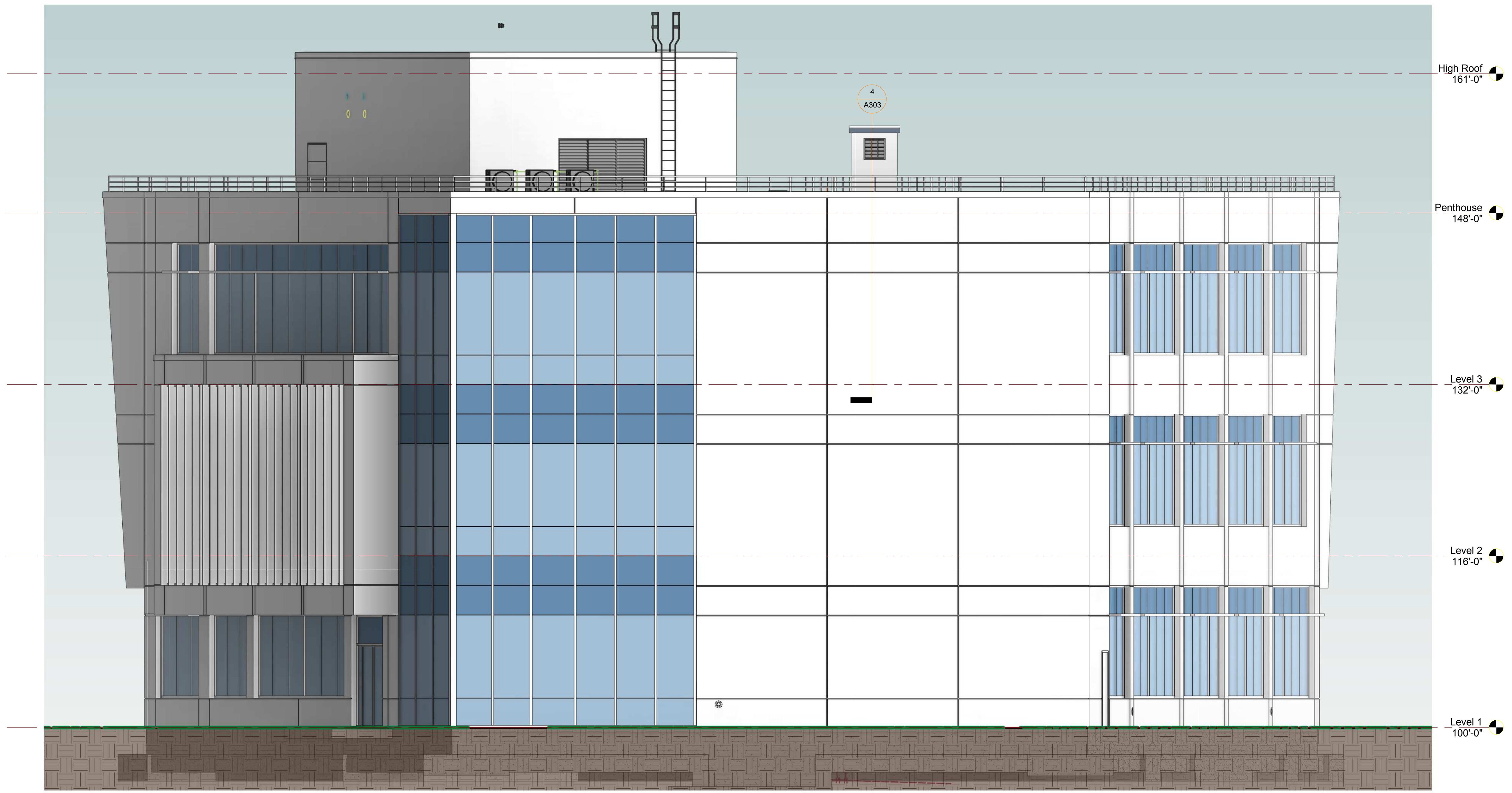
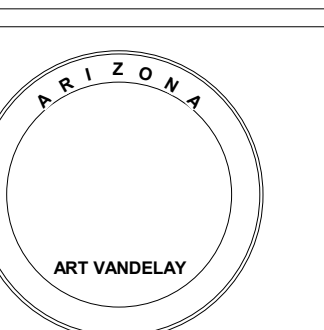
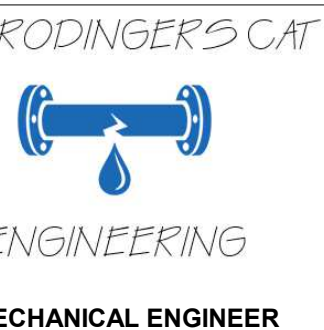
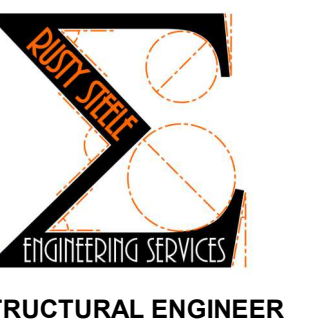
A204



1 South
SCALE: 3/16" = 1'-0"



KEY PLAN



1 West
SCALE= 3/16" = 1'-0"

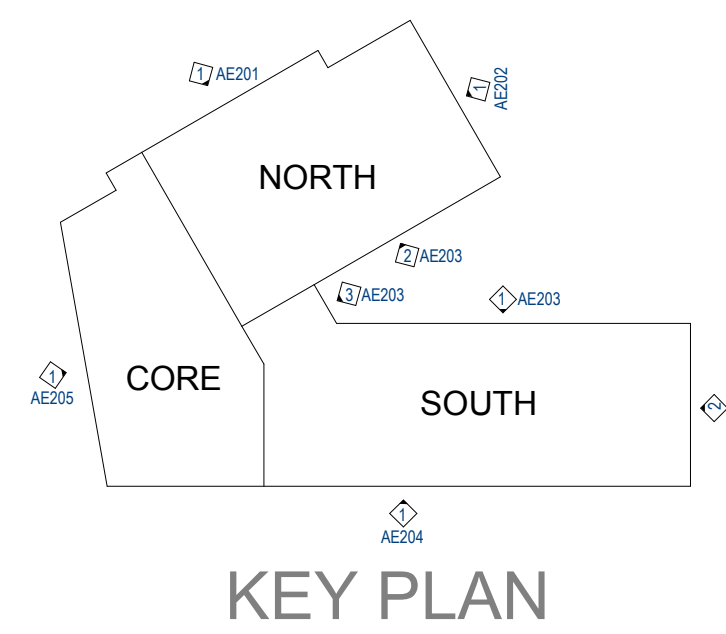
Project Name:
Vortex Business Center

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Revision Schedule		
No.	Description	Date

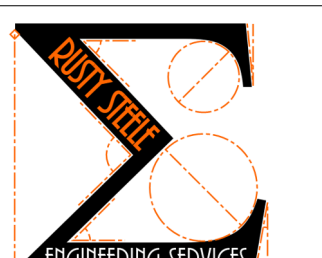
Sheet Name:
EXTERIOR ELEVATIONS

A205





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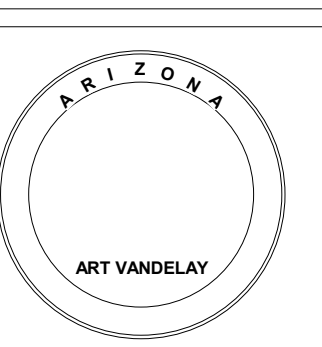
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ELECTRICAL ENGINEER



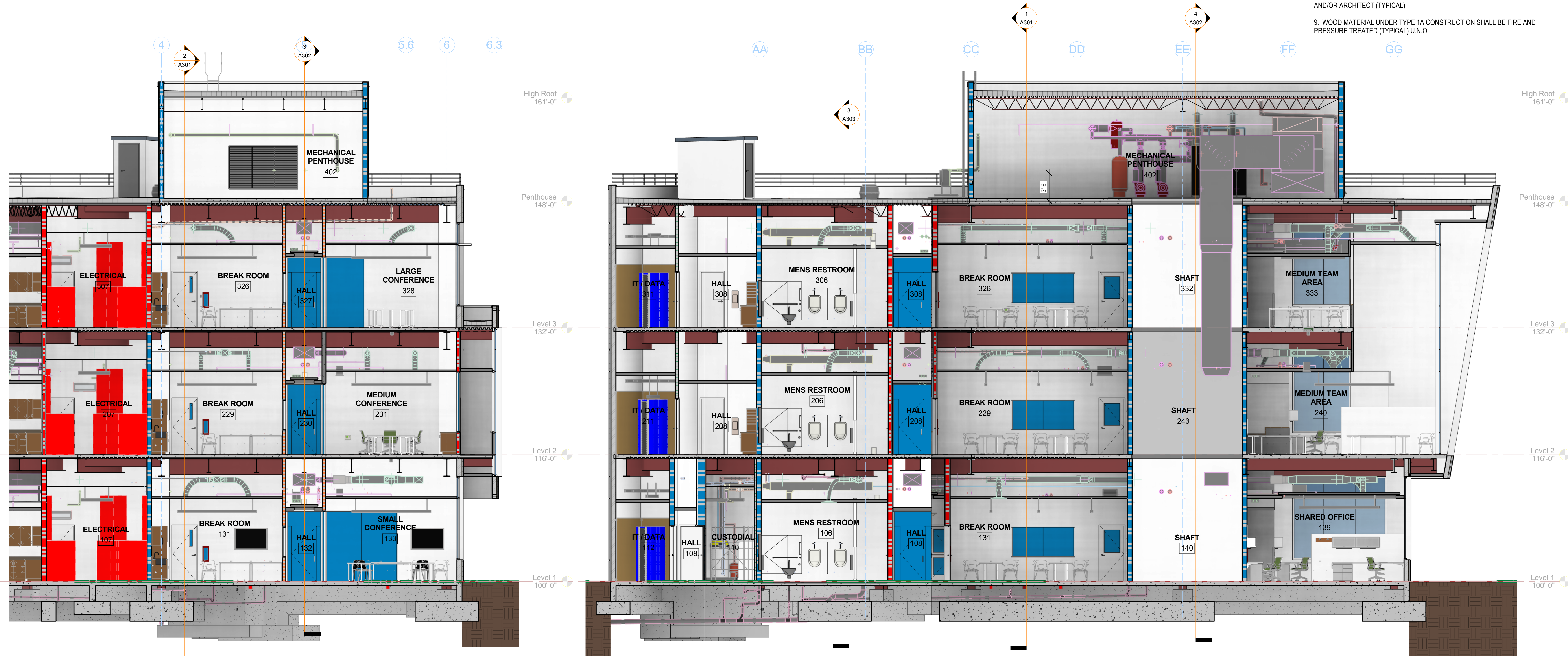
CONTRACTOR



ART VANDELAY

GENERAL SHEET NOTES

1. FIRE PROTECTION ON ASSEMBLIES, ELEMENTS AND MEMBERS SHALL COMPLY WITH ALL THE CODE REQUIREMENTS (TYPICAL) - REFER TO LIFE SAFETY PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR PROPER TRANSITIONS BETWEEN SHORING SYSTEM, LAID BACK WATERPROOFING & HORIZONTAL WATERPROOFING SYSTEMS - THEY SHALL BE COMPATIBLE ONE TO EACH OTHER & MUST FOLLOW RECOMMENDATIONS FROM THEIR MANUFACTURERS.
3. WALL PARTITIONS WITHIN RETAIL SPACES SHALL BE FINISHED PER TENANT IMPROVEMENT, EXCEPT THOSE WALLS THAT ARE REQUIRED FOR FIRE RATING OR THERMAL/MINIMUM UTILITIES CONDITIONING OF THE SHELL SPACE.
4. WHERE SHORING CONDITIONS APPLY, CONTRACTOR SHALL PROVIDE WITH IT, THE REQUIRED WATERPROOFING AND DRAINAGE SYSTEM FOR THE CONCRETE & THE SHORING WALL RESPECTIVELY.
5. ALL WALLS SHALL BE BUILT FOLLOWING WALL TYPE PARTITION DETAILS (TYPICAL).
6. SPACING BETWEEN STRUCTURAL MEMBERS SHALL FOLLOW INDICATIONS GIVEN ON STRUCTURAL PLANS (TYPICAL).
7. REFER TO PLAN DETAILS FOR SPECIFIC LOCATION OF STUDS THAT WILL ACCOMPLISH ALIGNMENTS OF DIFFERENT TYPES OF WALLS (TYPICAL).
8. COLORS, STAINS & FINISHES ON ALL DESCRIBED MATERIALS ARE PER FINISH PLANS, SPECIFICATIONS & AS SELECTED PER INTERIOR DESIGNER AND/OR ARCHITECT (TYPICAL).
9. WOOD MATERIAL UNDER TYPE 1A CONSTRUCTION SHALL BE FIRE AND PRESSURE TREATED (TYPICAL) U.N.O.



1 Break Room & Electrical Room Section
SCALE= 3/16" = 1'-0"

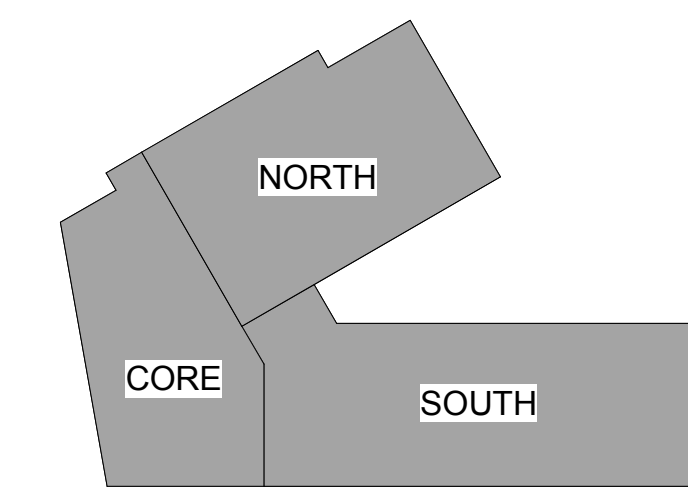
2 Break Room East-West Section
SCALE= 3/16" = 1'-0"

Project Name:
Vortex Business Center

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Revision Schedule		
No.	Description	Date

Sheet Name:
BUILDING SECTIONS



KEY PLAN

A301

GENERAL SHEET NOTES

1. FIRE PROTECTION ON ASSEMBLIES, ELEMENTS AND MEMBERS SHALL COMPLY WITH ALL THE CODE REQUIREMENTS (TYPICAL) - REFER TO LIFE SAFETY PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR PROPER TRANSITIONS BETWEEN SHORING SYSTEM, LAID BACK WATERPROOFING & HORIZONTAL WATERPROOFING SYSTEMS - THEY SHALL BE COMPATIBLE ONE TO EACH OTHER & MUST FOLLOW RECOMMENDATIONS FROM THEIR MANUFACTURERS.
3. WALL PARTITIONS WITHIN RETAIL SPACES SHALL BE FINISHED PER TENANT IMPROVEMENT, EXCEPT THOSE WALLS THAT ARE REQUIRED FOR FIRE RATING OR THERMAL/MINIMUM UTILITIES CONDITIONING OF THE SHELL SPACE.
4. WHERE SHORING CONDITIONS APPLY, CONTRACTOR SHALL PROVIDE WITH IT, THE REQUIRED WATERPROOFING AND DRAINAGE SYSTEM FOR THE CONCRETE & THE SHORING WALL RESPECTIVELY.
5. ALL WALLS SHALL BE BUILT FOLLOWING WALL TYPE PARTITION DETAILS (TYPICAL).
6. SPACING BETWEEN STRUCTURAL MEMBERS SHALL FOLLOW INDICATIONS GIVEN ON STRUCTURAL PLANS (TYPICAL).
7. REFER TO PLAN DETAILS FOR SPECIFIC LOCATION OF STUDS THAT WILL ACCOMPLISH ALIGNMENTS OF DIFFERENT TYPES OF WALLS (TYPICAL).
8. COLORS, STAINS & FINISHES ON ALL DESCRIBED MATERIALS ARE PER FINISH PLANS, SPECIFICATIONS & AS SELECTED PER INTERIOR DESIGNER AND/OR ARCHITECT (TYPICAL).
9. WOOD MATERIAL UNDER TYPE 1A CONSTRUCTION SHALL BE FIRE AND PRESSURE TREATED (TYPICAL) U.N.O.

PROCORE

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CARPINTERIA, CA 95013
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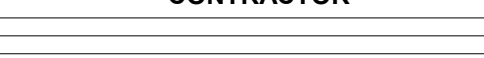
Cn3D



CONSTRUCTION

CONTRACTOR

ART VANDELAY



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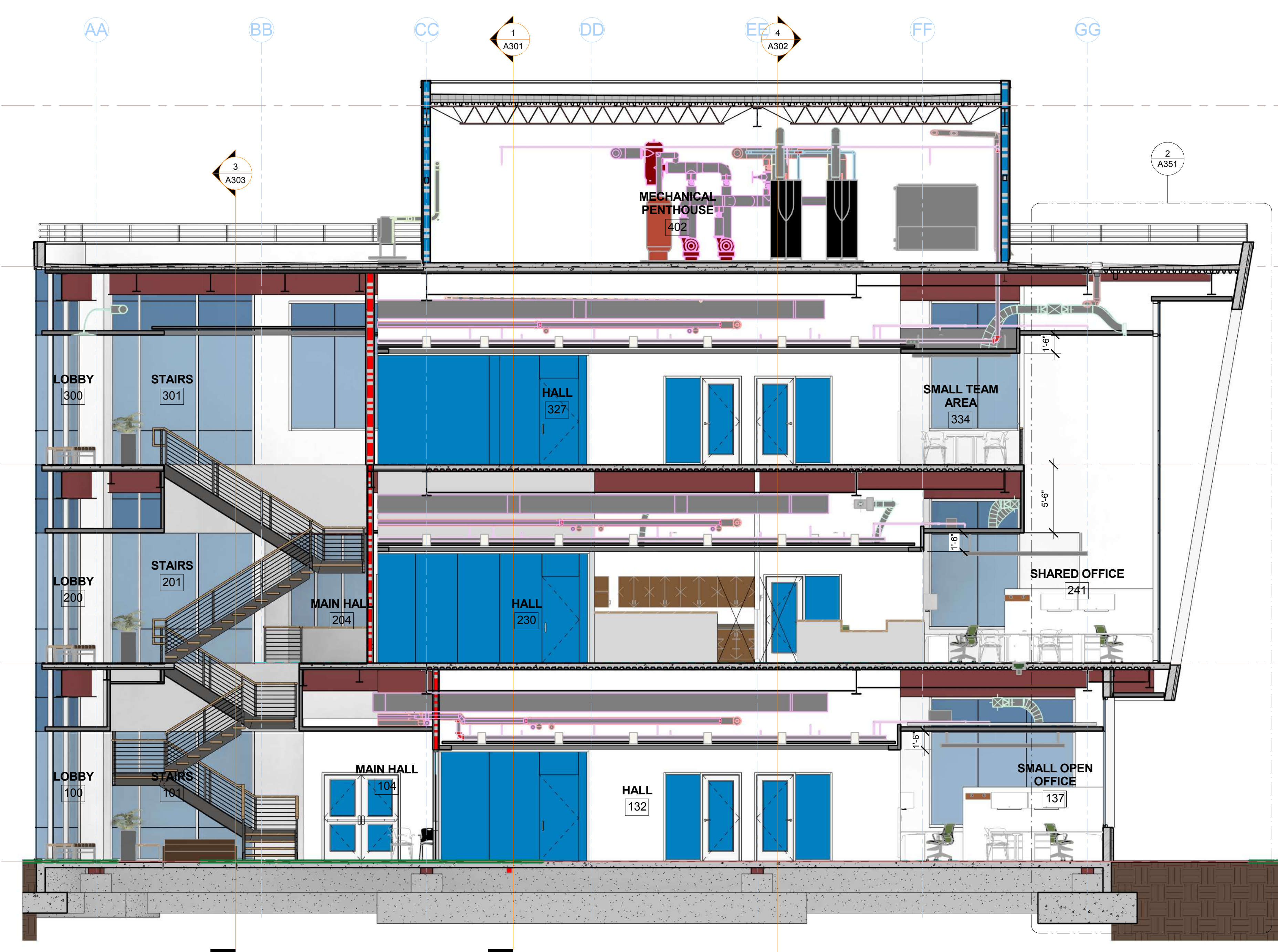
ART VANDELAY

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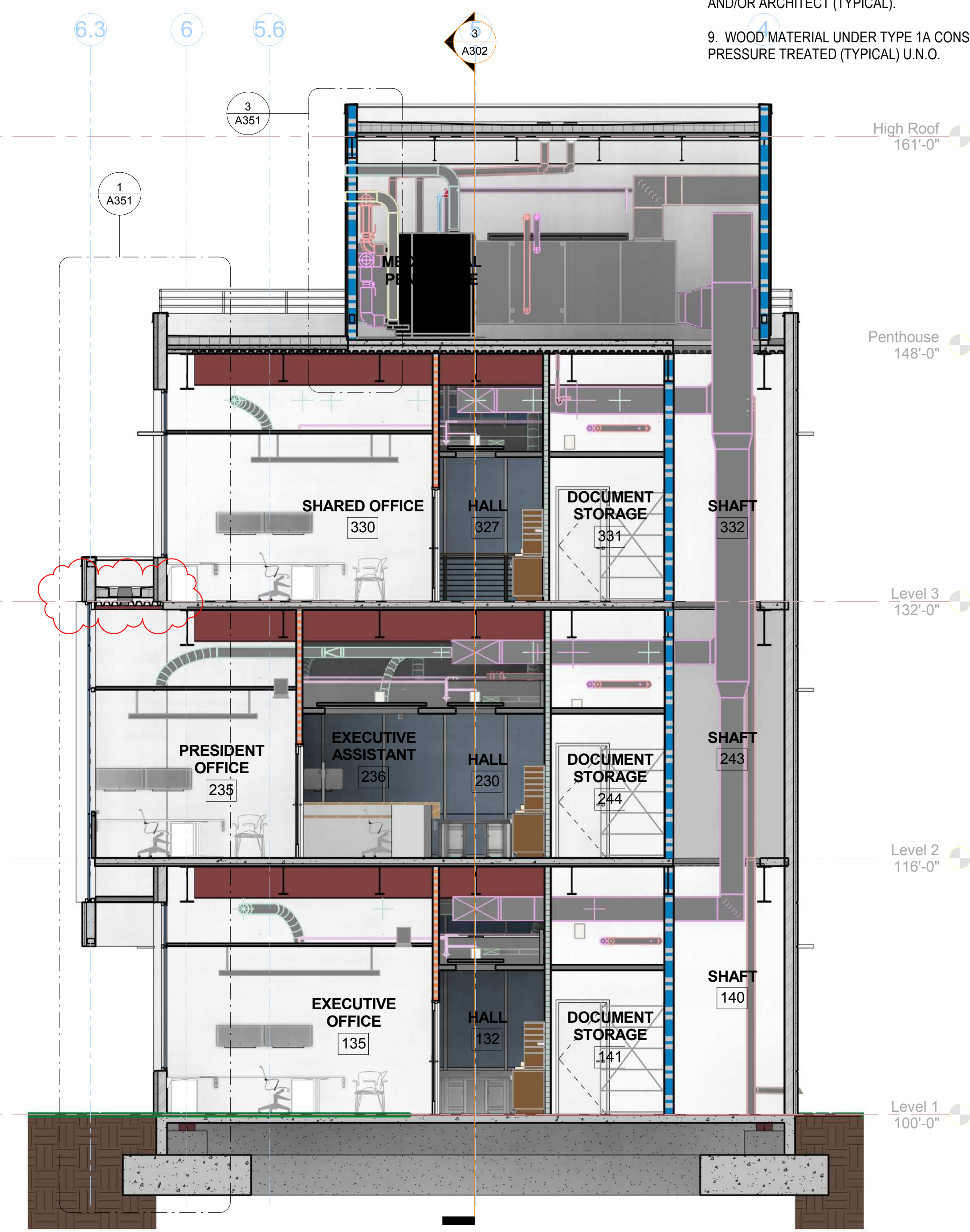
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ART VANDELAY

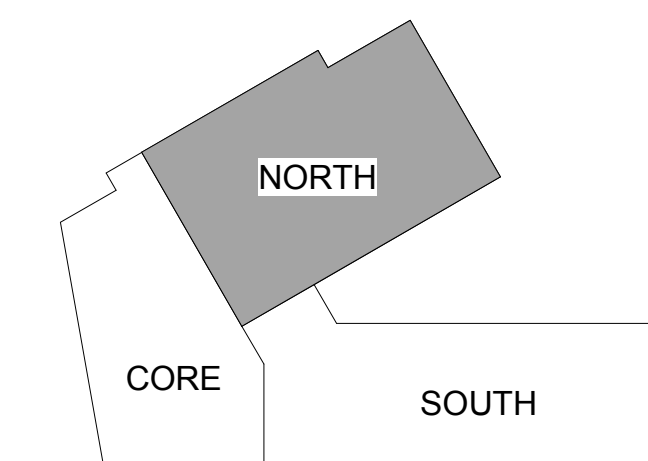
ART VANDELAY



3 North Area East-West Section
SCALE= 3/16" = 1'-0"



4 North Area North-South Section
SCALE= 3/16" = 1'-0"



KEY PLAN

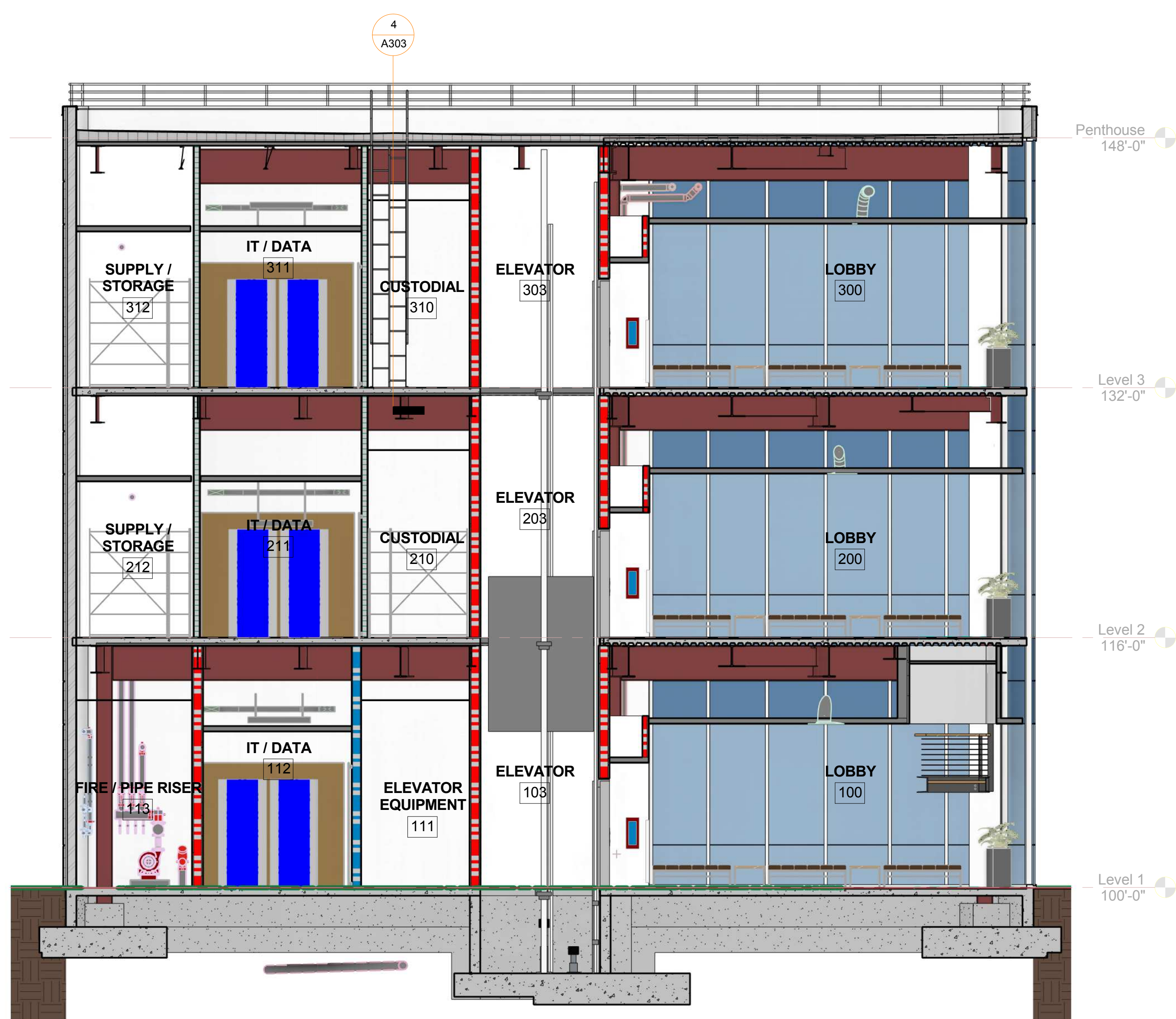
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date
1	Revision 1	Date 1

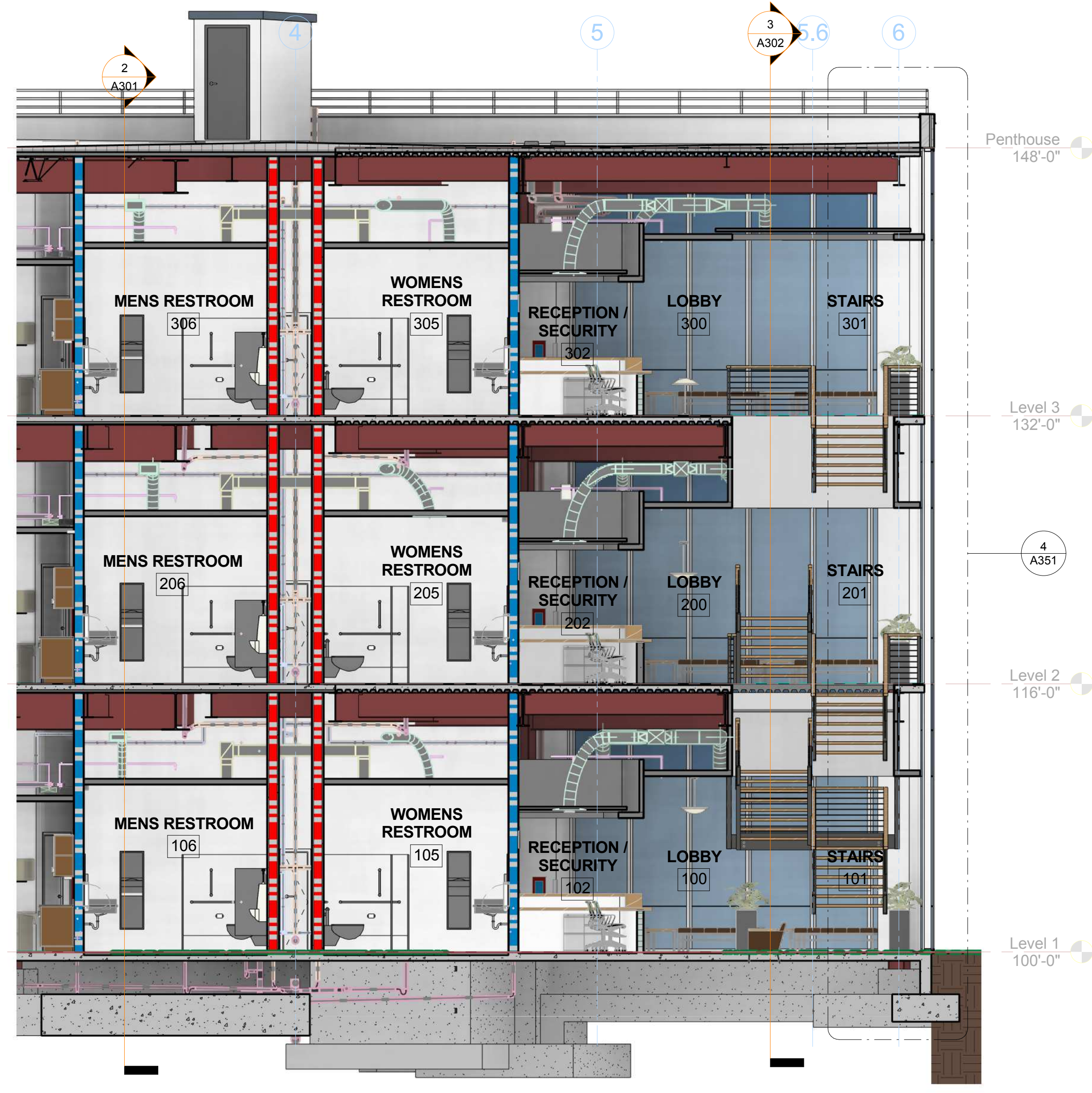
Sheet Name:
BUILDING SECTIONS

A302

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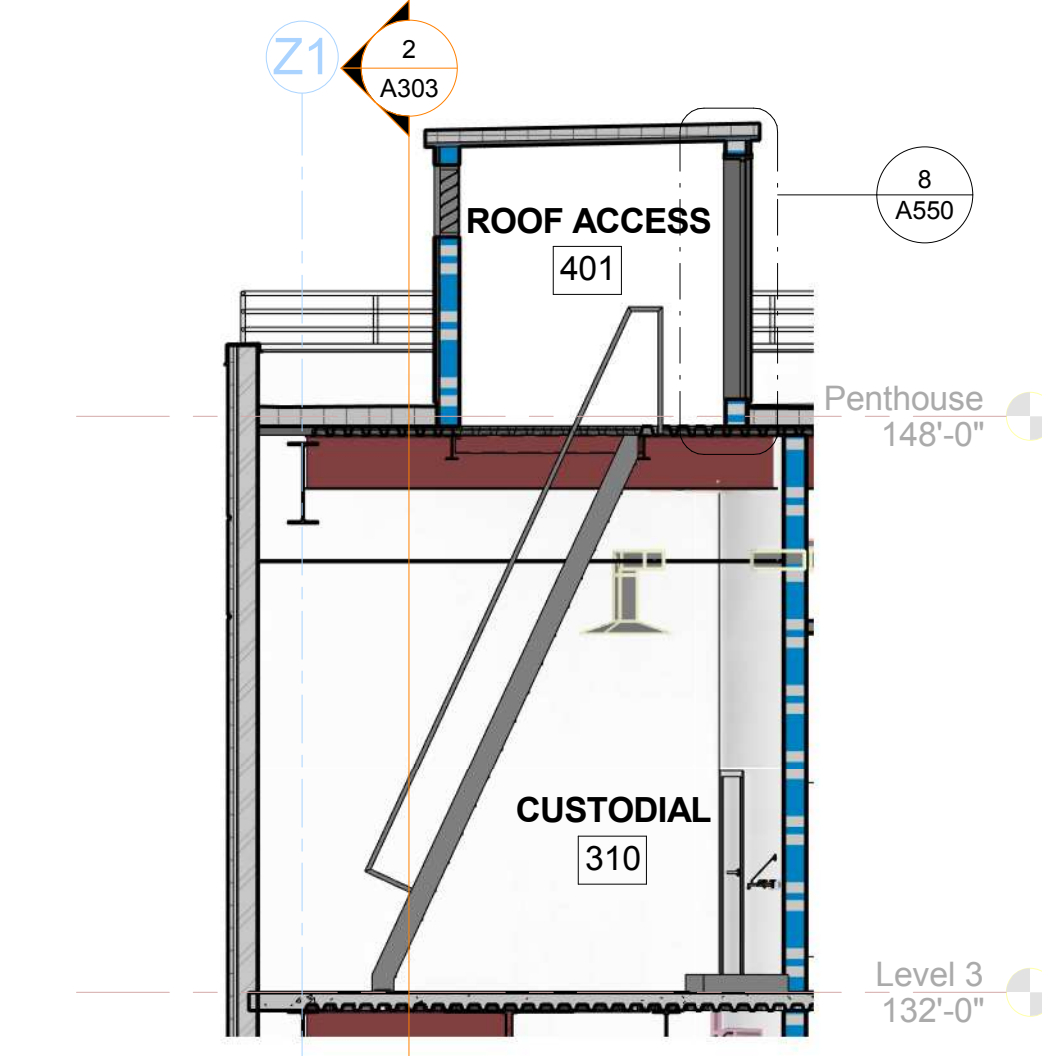
2 Core North-South Section
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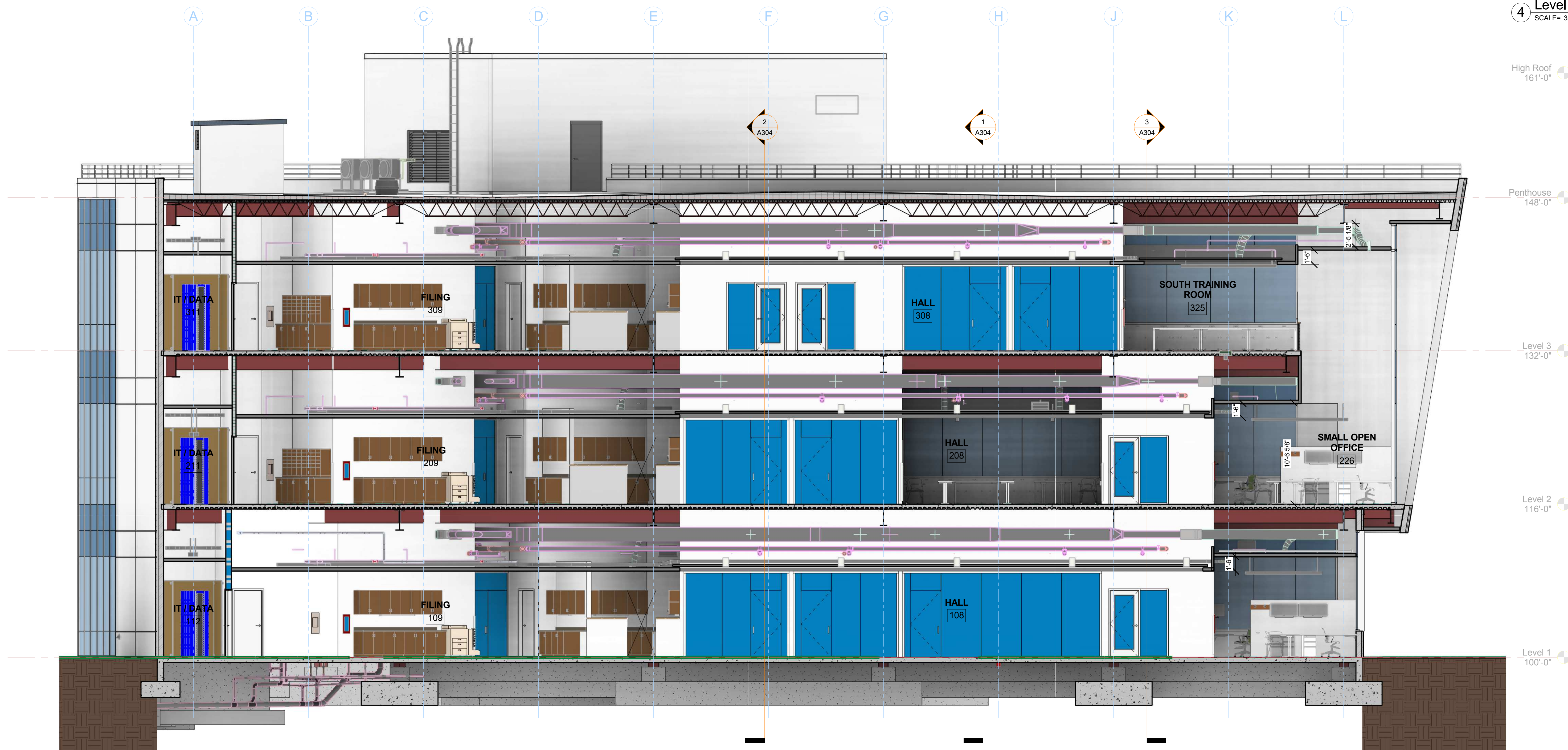
3 Restrooms North-South Section
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GENERAL SHEET NOTES

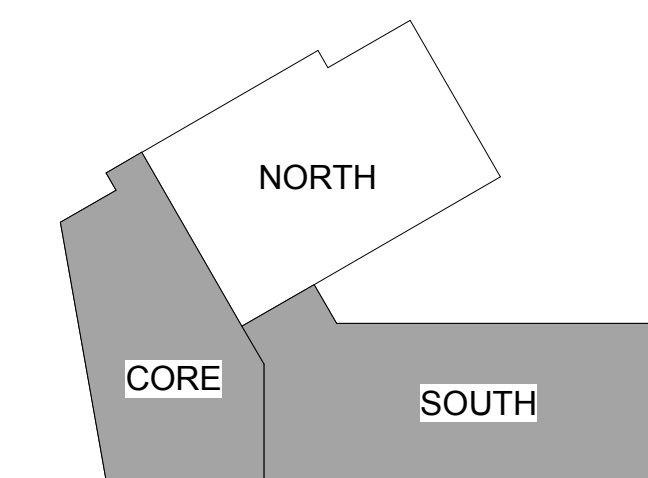
1. FIRE PROTECTION ON ASSEMBLIES, ELEMENTS AND MEMBERS SHALL COMPLY WITH ALL THE CODE REQUIREMENTS (TYPICAL) - REFER TO LIFE SAFETY PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR PROPER TRANSITIONS BETWEEN SHORING SYSTEM, LAID BACK WATERPROOFING & HORIZONTAL WATERPROOFING SYSTEMS - THEY SHALL BE COMPATIBLE ONE TO EACH OTHER & MUST FOLLOW RECOMMENDATIONS FROM THEIR MANUFACTURERS.
3. WALL PARTITIONS WITHIN RETAIL SPACES SHALL BE FINISHED PER TENANT IMPROVEMENT, EXCEPT THOSE WALLS THAT ARE REQUIRED FOR FIRE RATING OR THERMAL MINIMUM UTILITIES CONDITIONING OF THE SHELL SPACE.
4. WHERE SHORING CONDITIONS APPLY, CONTRACTOR SHALL PROVIDE WITH IT, THE REQUIRED WATERPROOFING AND DRAINAGE SYSTEM FOR THE CONCRETE & THE SHORING WALL RESPECTIVELY.
5. ALL WALLS SHALL BE BUILT FOLLOWING WALL TYPE PARTITION DETAILS (TYPICAL).
6. SPACING BETWEEN STRUCTURAL MEMBERS SHALL FOLLOW INDICATIONS GIVEN ON STRUCTURAL PLANS (TYPICAL).
7. REFER TO PLAN DETAILS FOR SPECIFIC LOCATION OF STUDS THAT WILL ACCOMPLISH ALIGNMENTS OF DIFFERENT TYPES OF WALLS (TYPICAL).
8. COLORS, STAINS & FINISHES ON ALL DESCRIBED MATERIALS ARE PER FINISH PLANS, SPECIFICATIONS & AS SELECTED PER INTERIOR DESIGNER AND/OR ARCHITECT (TYPICAL).
9. WOOD MATERIAL UNDER TYPE 1A CONSTRUCTION SHALL BE FIRE AND PRESSURE TREATED (TYPICAL) U.N.O.



4 Level 3 Roof Access Section
SCALE= 3/16" = 1'-0"



1 South Area East-West Hall Section
SCALE= 3/16" = 1'-0"



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ELECTRICAL ENGINEER

Cn3D CONSTRUCTION
CONTRACTOR

ART VANDELAY
ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule

No.	Description	Date

Sheet Name:
BUILDING SECTIONS

A303

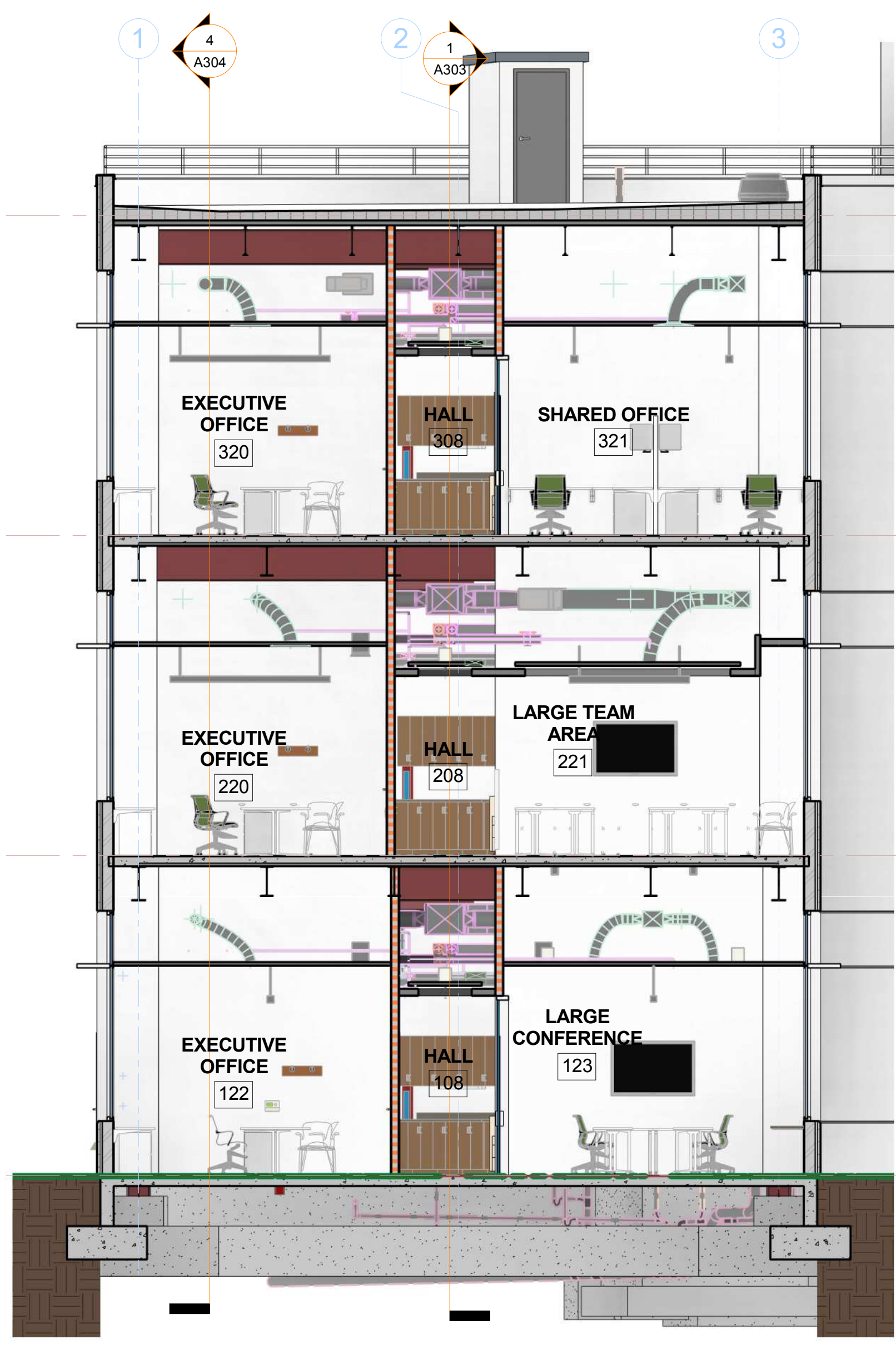
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GENERAL SHEET NOTES

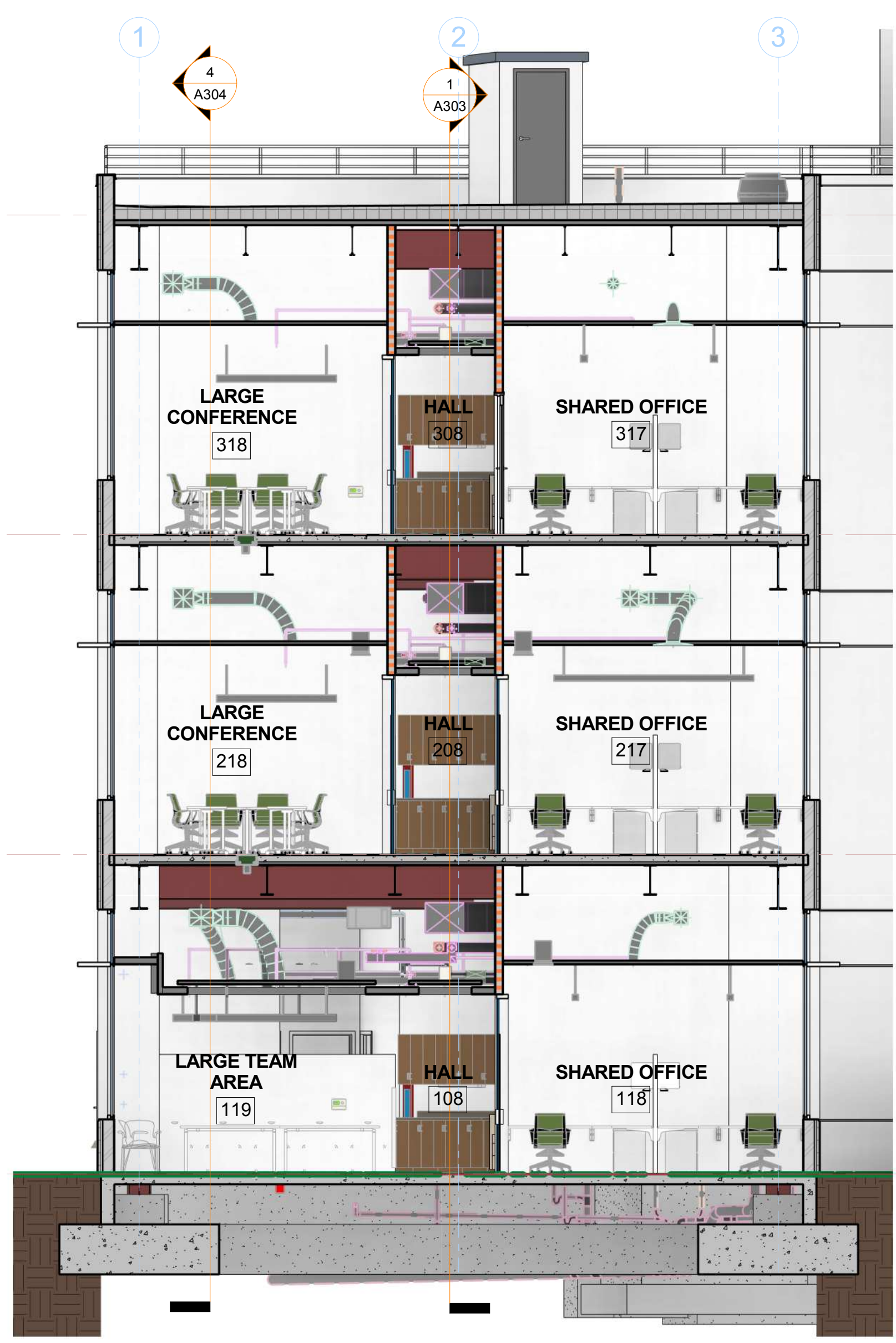
1. FIRE PROTECTION ON ASSEMBLIES, ELEMENTS AND MEMBERS SHALL COMPLY WITH ALL THE CODE REQUIREMENTS (TYPICAL) - REFER TO LIFE SAFETY PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR PROPER TRANSITIONS BETWEEN SHORING SYSTEM, LAID BACK WATERPROOFING & HORIZONTAL WATERPROOFING SYSTEMS - THEY SHALL BE COMPATIBLE ONE TO EACH OTHER & MUST FOLLOW RECOMMENDATIONS FROM THEIR MANUFACTURERS.
3. WALL PARTITIONS WITHIN RETAIL SPACES SHALL BE FINISHED PER TENANT IMPROVEMENT, EXCEPT THOSE WALLS THAT ARE REQUIRED FOR FIRE RATING OR THERMAL/MINIMUM UTILITIES CONDITIONING OF THE SHELL SPACE.
4. WHERE SHORING CONDITIONS APPLY, CONTRACTOR SHALL PROVIDE WITH IT, THE REQUIRED WATERPROOFING AND DRAINAGE SYSTEM FOR THE CONCRETE & THE SHORING WALL RESPECTIVELY.
5. ALL WALLS SHALL BE BUILT FOLLOWING WALL TYPE PARTITION DETAILS (TYPICAL).
6. SPACING BETWEEN STRUCTURAL MEMBERS SHALL FOLLOW INDICATIONS GIVEN ON STRUCTURAL PLANS (TYPICAL).
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9. WOOD MATERIAL UNDER TYPE 1A CONSTRUCTION SHALL BE FIRE AND PRESSURE TREATED (TYPICAL) U.N.O.



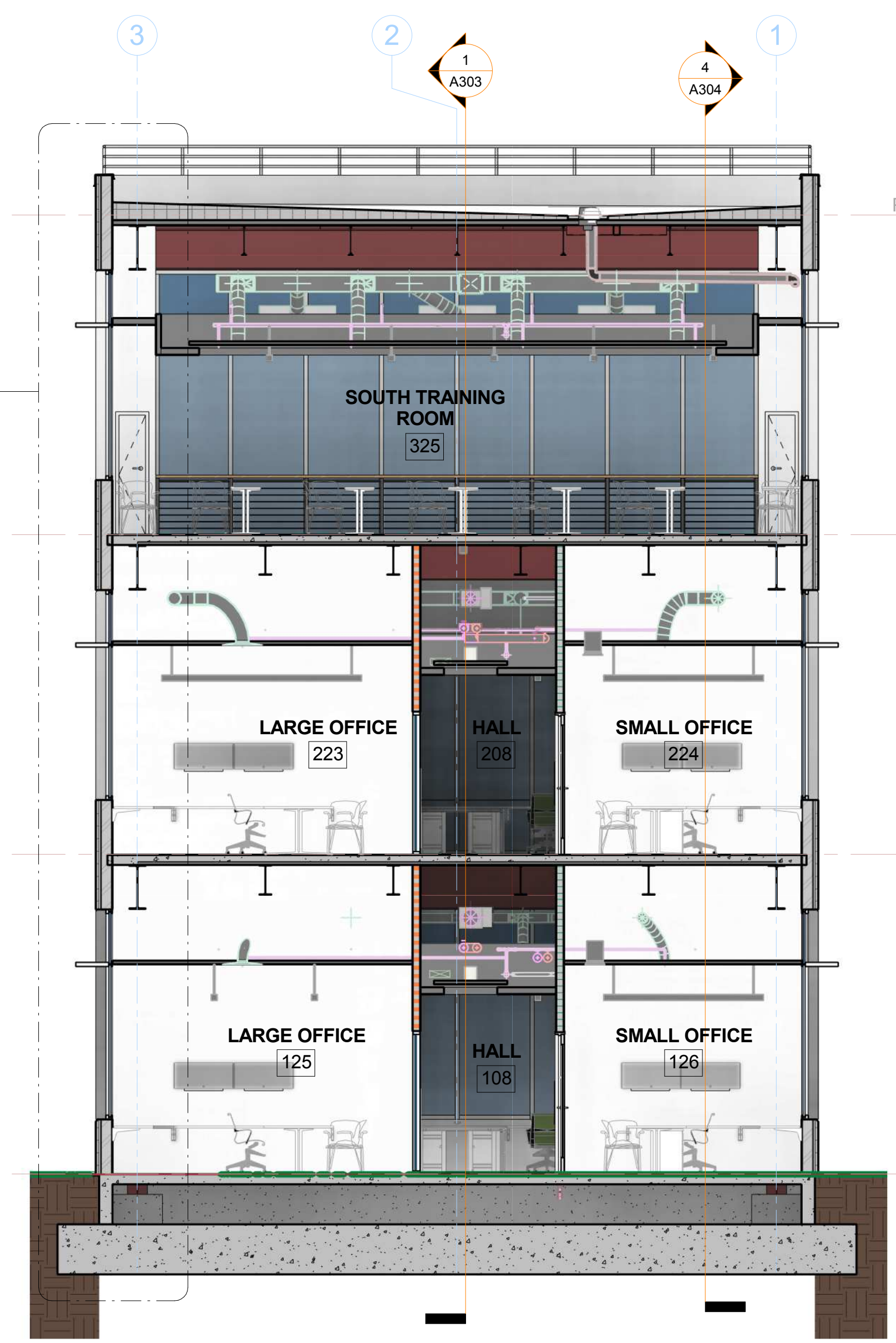
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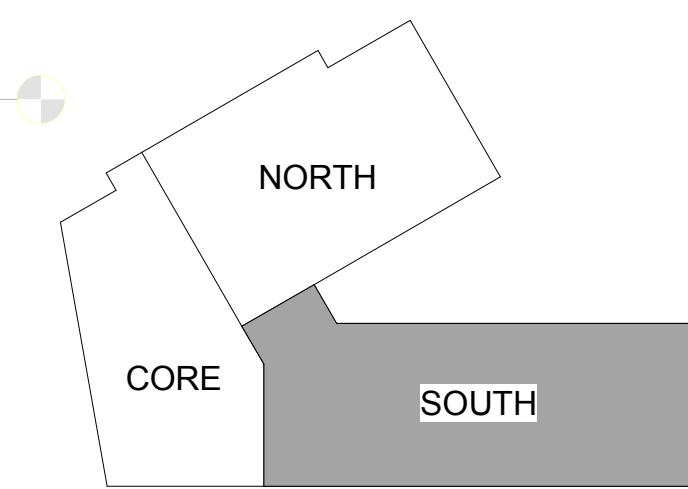
1 South Area North-South Section 1
SCALE= 3/16" = 1'-0"



2 South Area North-South Section 2
SCALE= 3/16" = 1'-0"



3 South Offices North-South Section
SCALE= 3/16" = 1'-0"



KEY PLAN

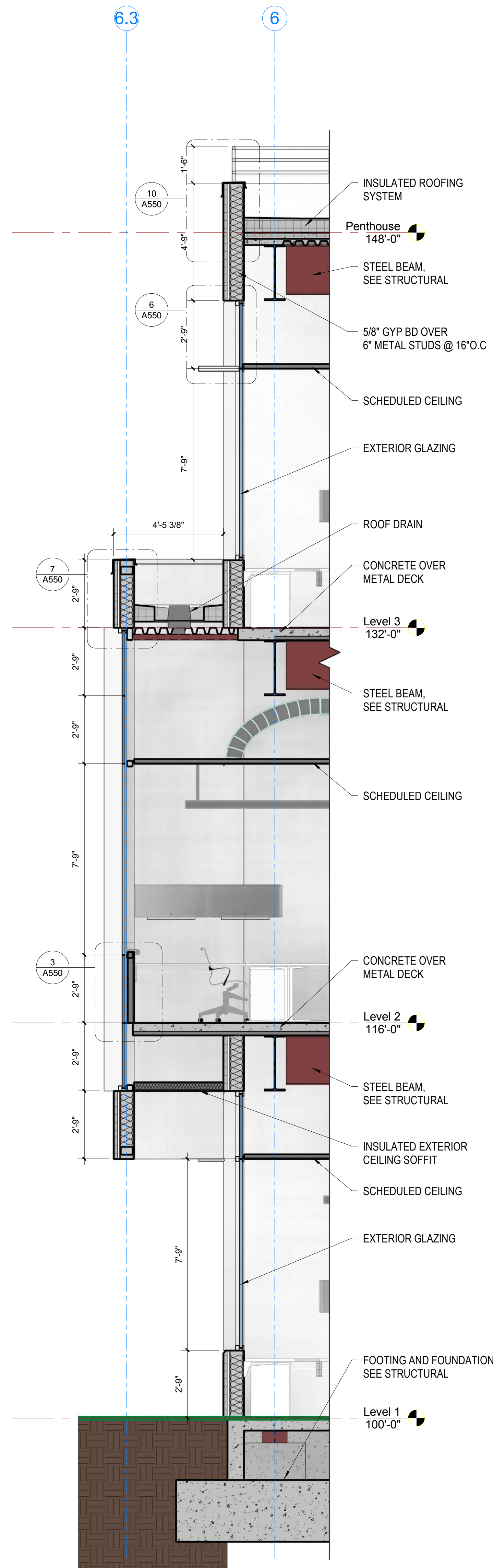
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

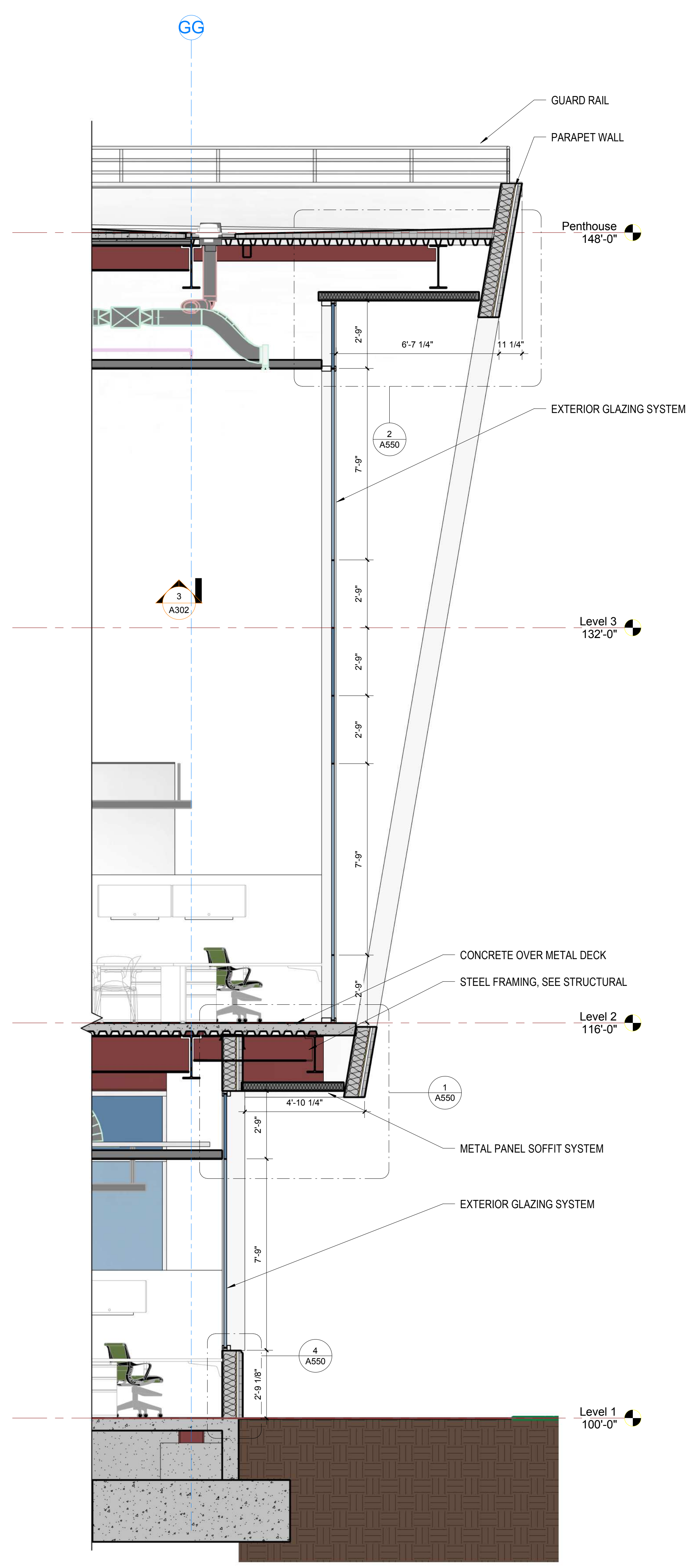
Sheet Name:
BUILDING SECTIONS

A304

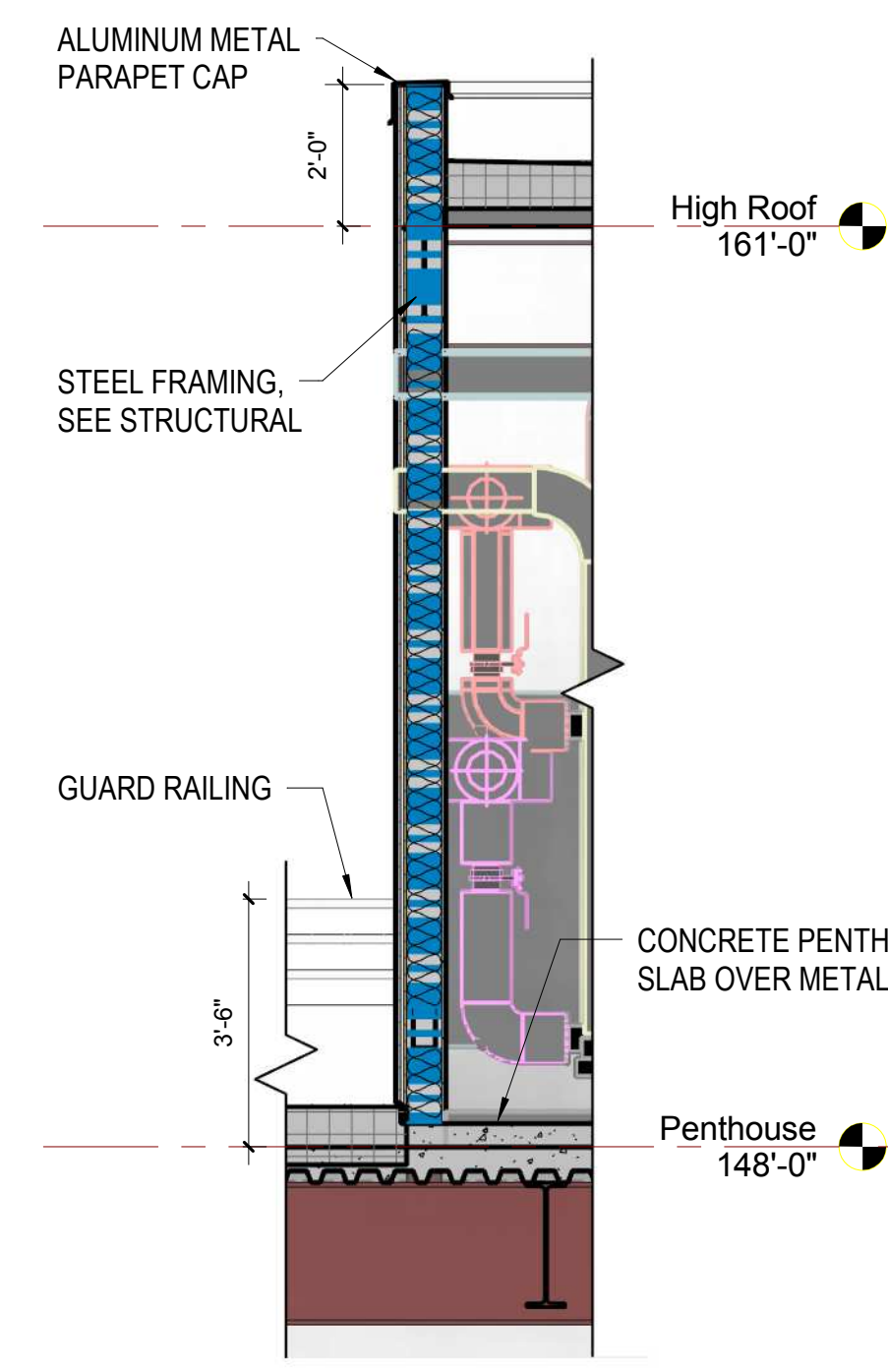
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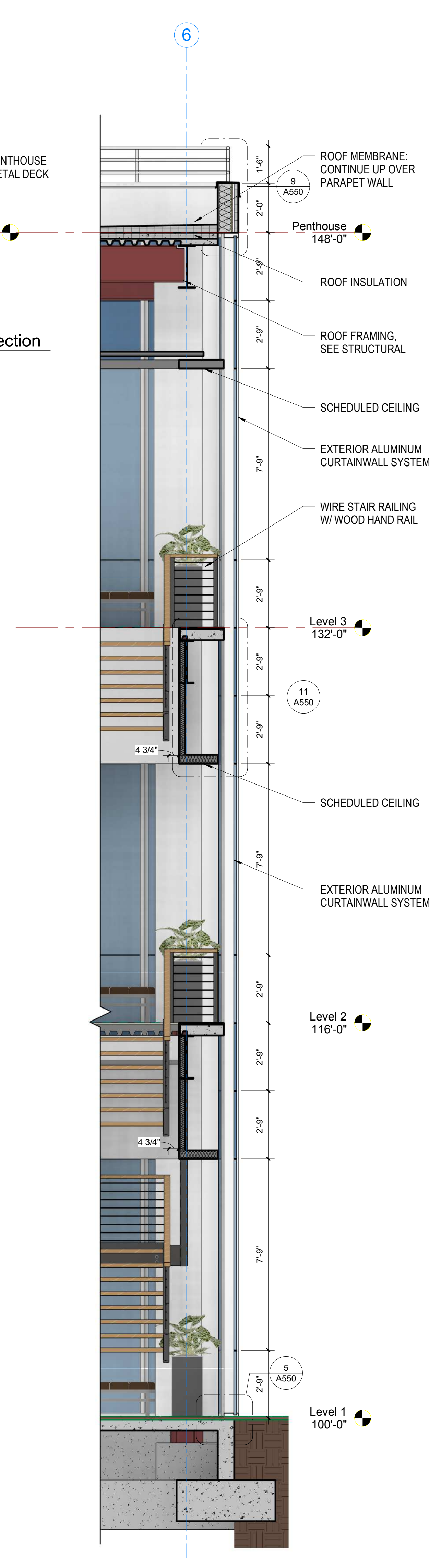
1 Popout Wall Section
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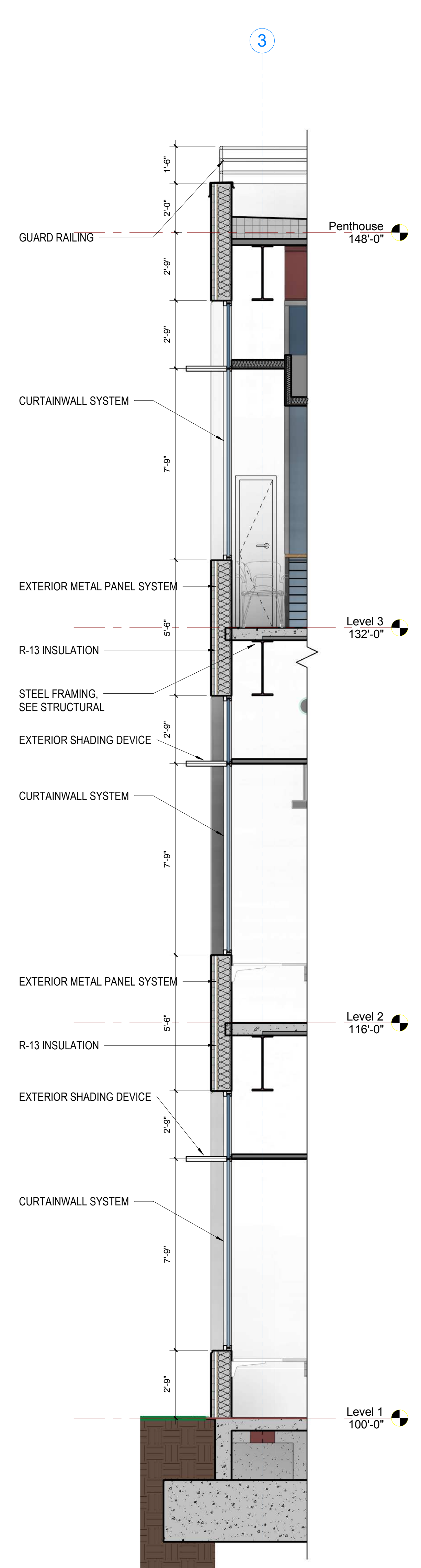
2 North Area Over Hang Wall Section
SCALE= 3/8" = 1'-0"



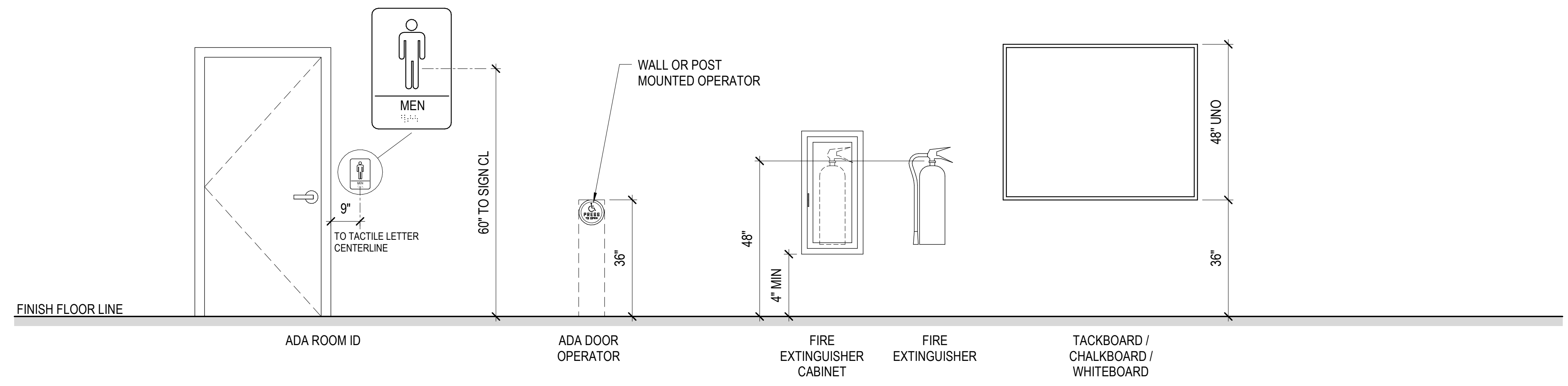
3 Mechanical Penthouse Wall Section
SCALE= 3/8" = 1'-0"



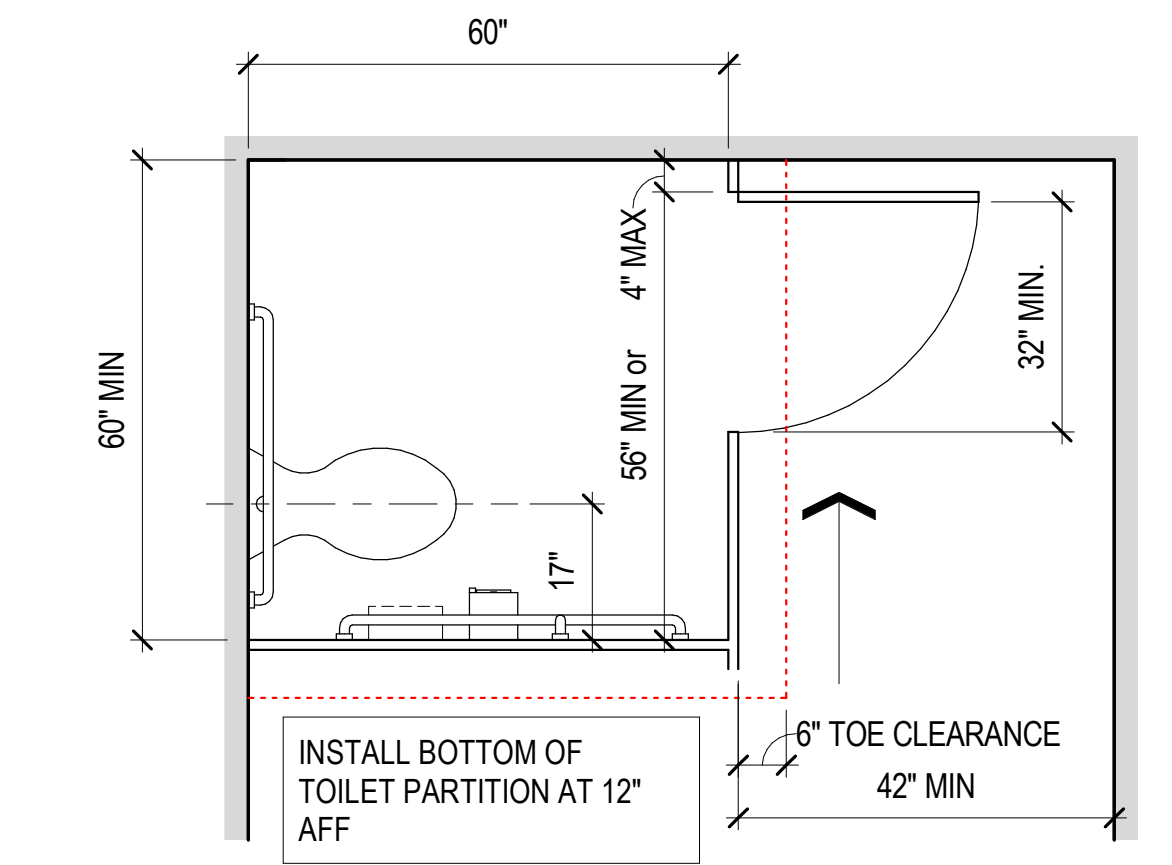
4 North Exterior Curtain Wall Section
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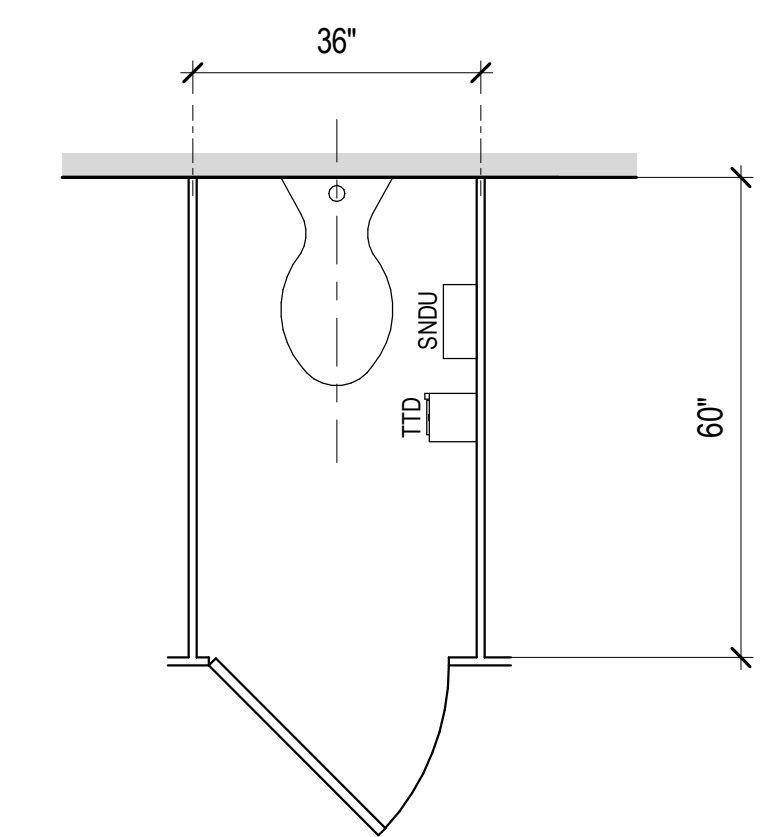
5 South Exterior Curtainwall Section
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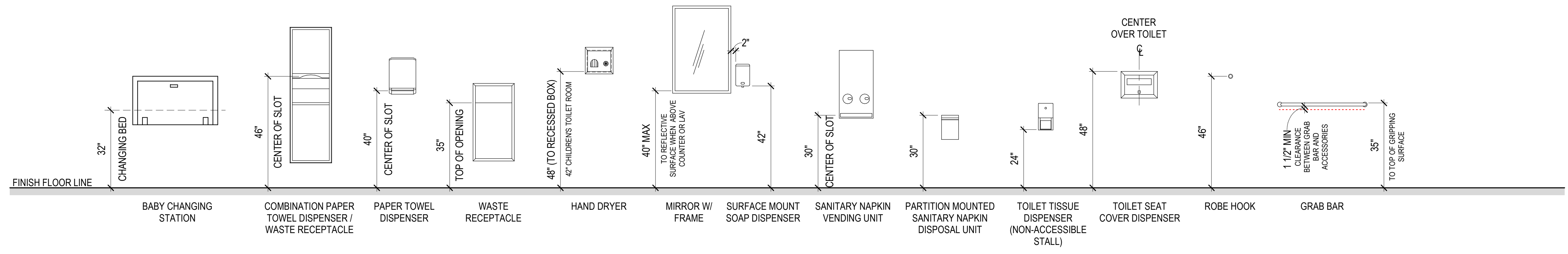
8 MOUNTING HEIGHTS
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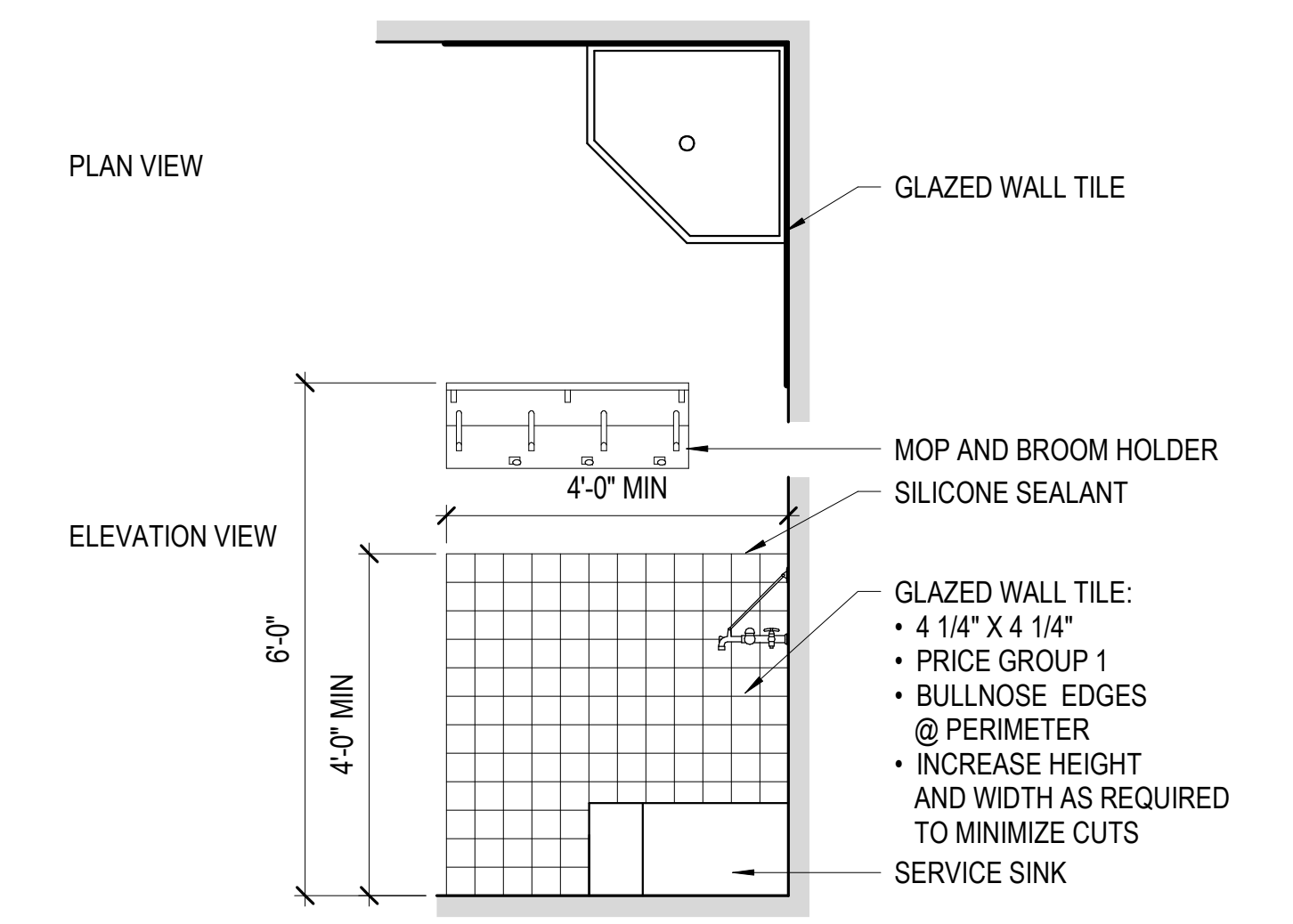
9 STALL PLAN
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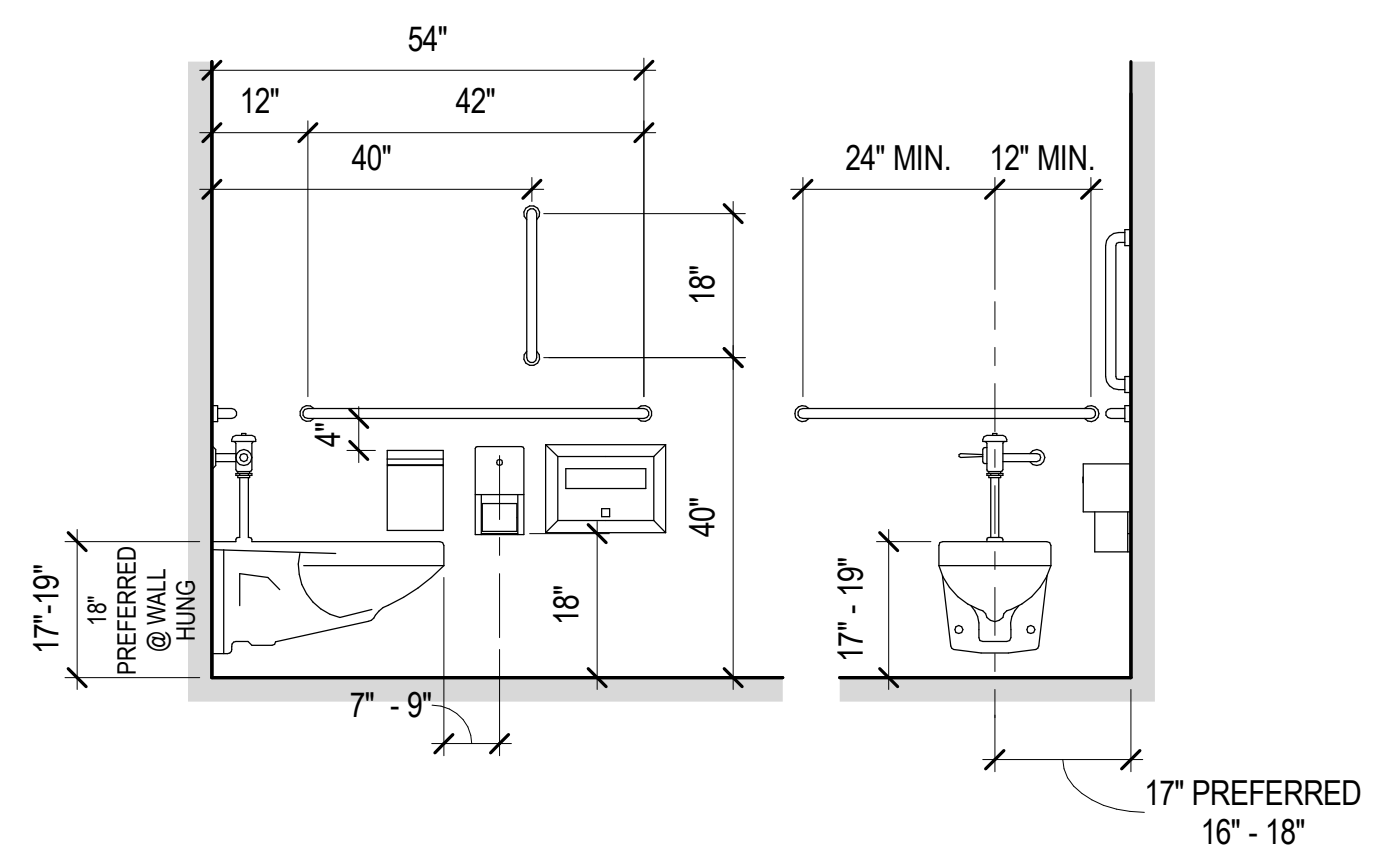
10 NON-ACCESSIBLE STALL PLAN
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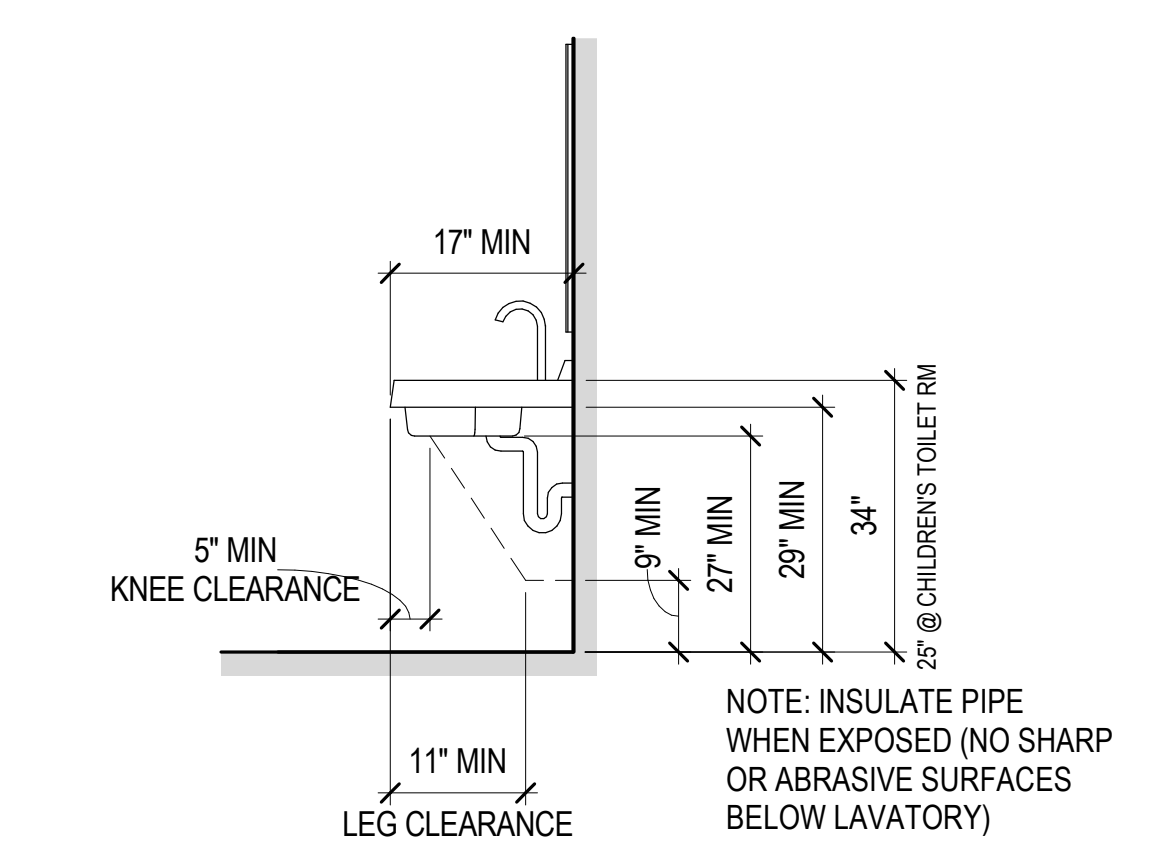
6 TOILET ROOM EQUIPMENT
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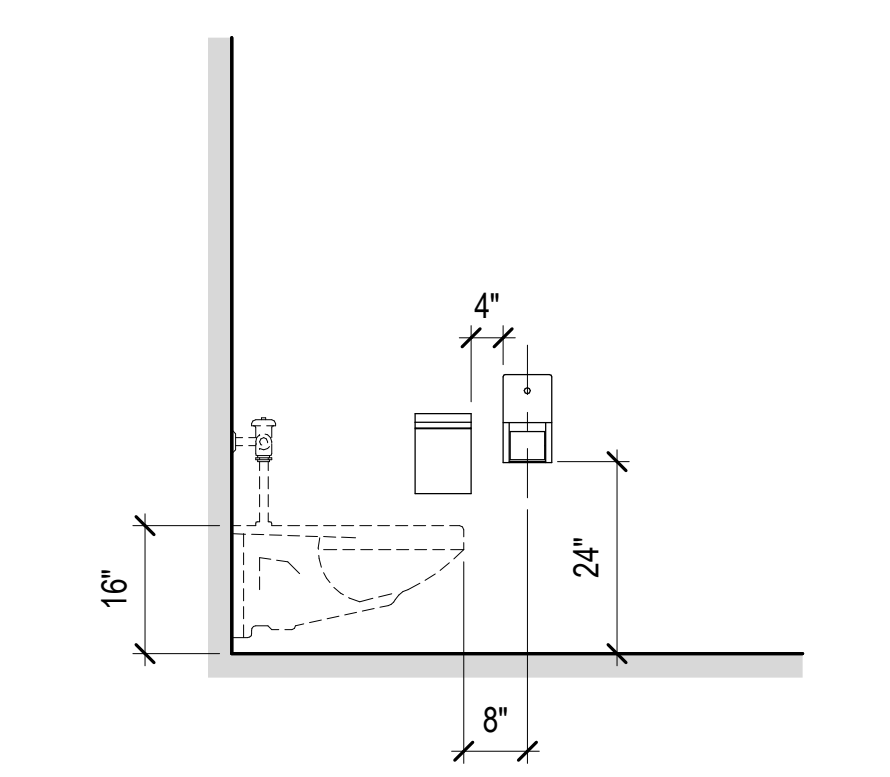
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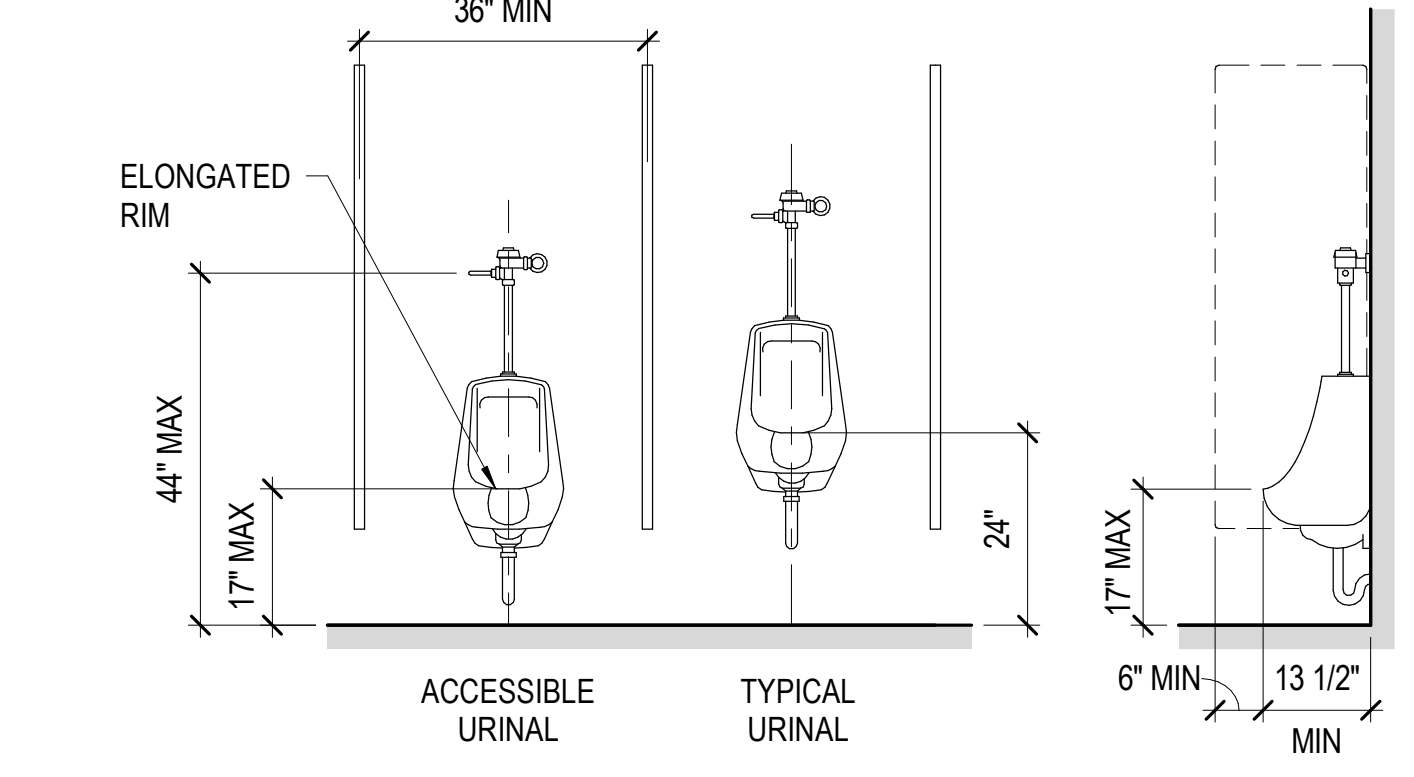
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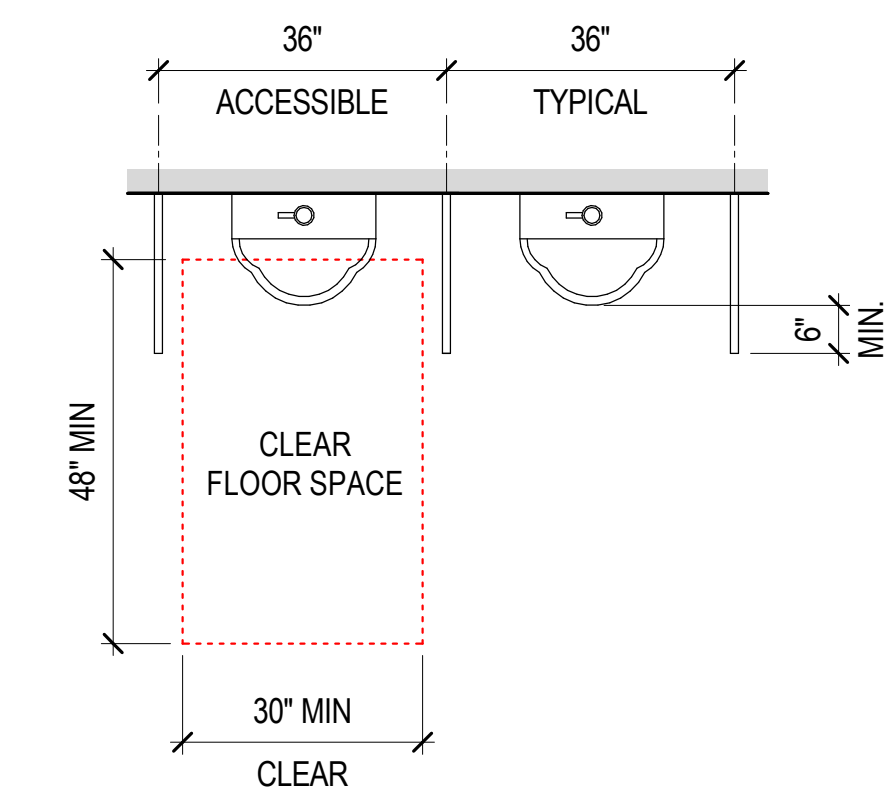
2 LAVATORY MOUNTING HEIGHT
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3 NON-ACC STALL MTG HEIGHTS
SCALE= 1/2" = 1'-0"



4 URINAL MOUNTING HEIGHTS
SCALE= 1/2" = 1'-0"



5 URINAL PLAN
SCALE= 1/2" = 1'-0"

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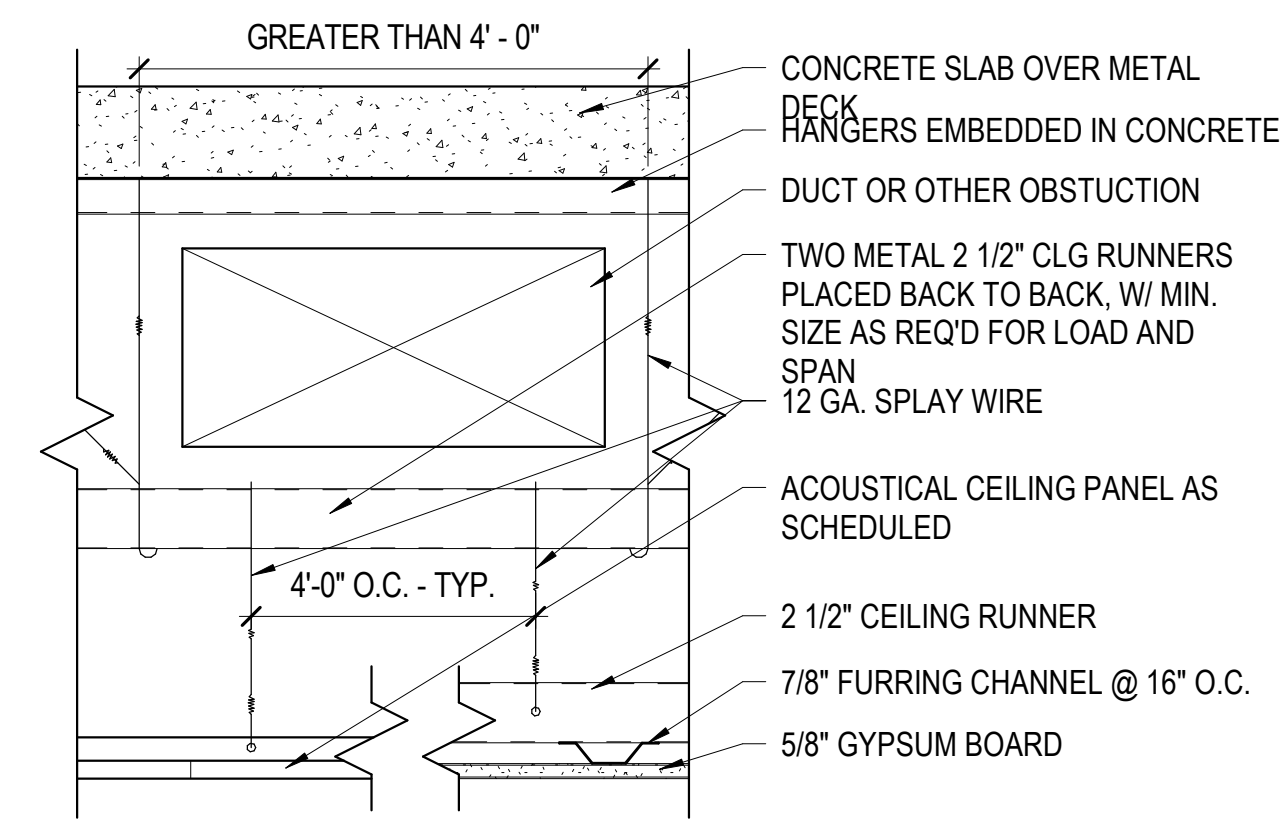
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

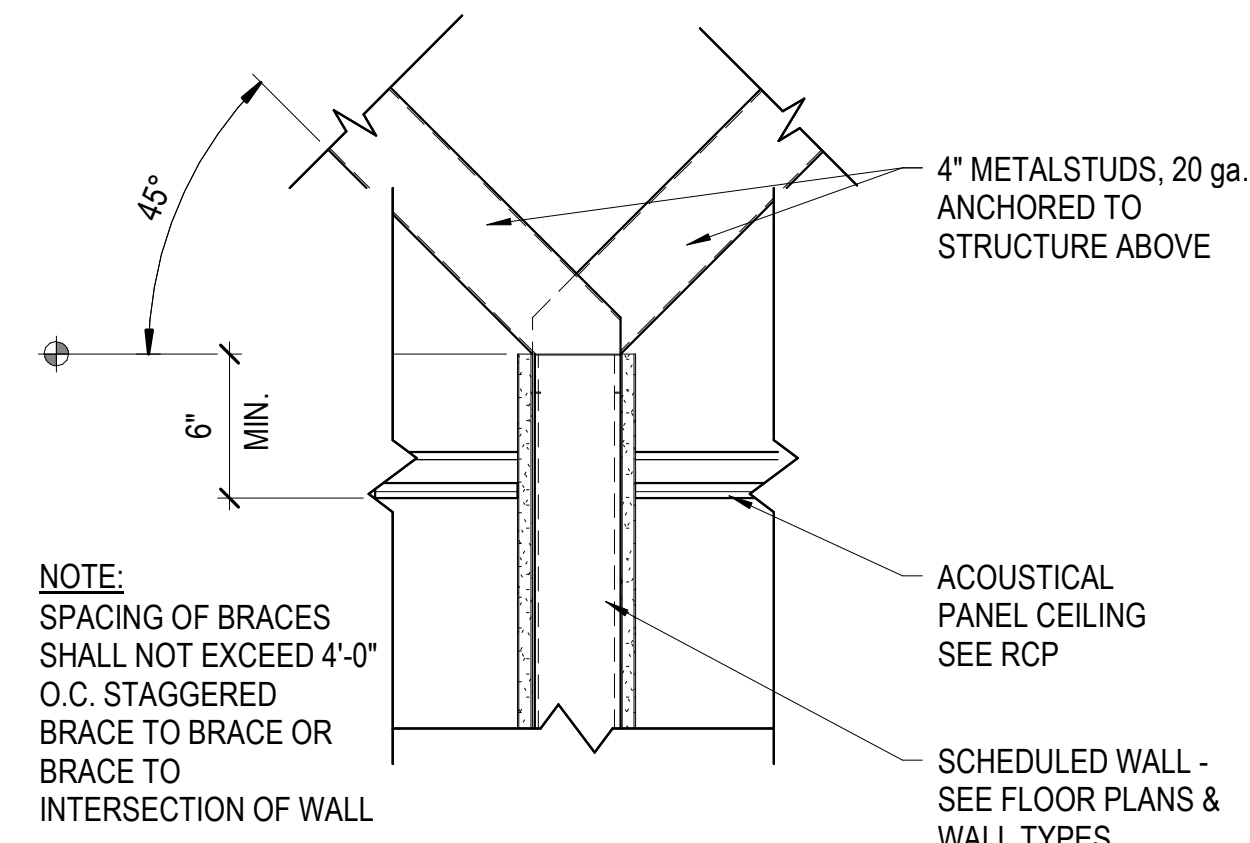
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ADA MOUNTING HEIGHTS

A500

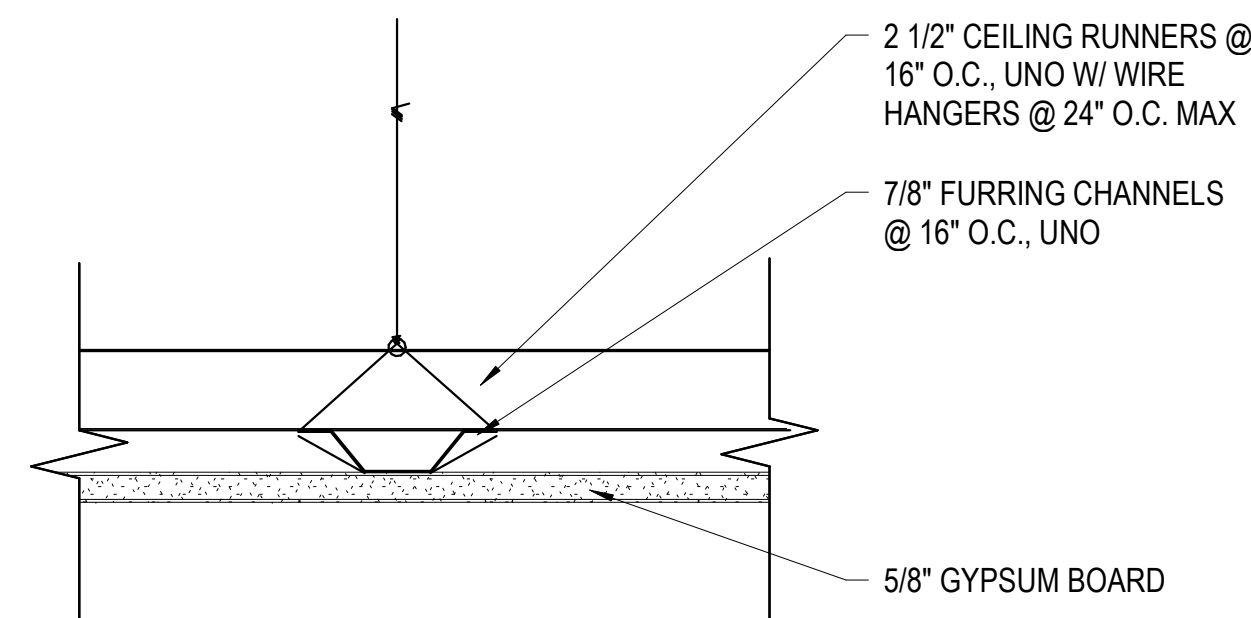
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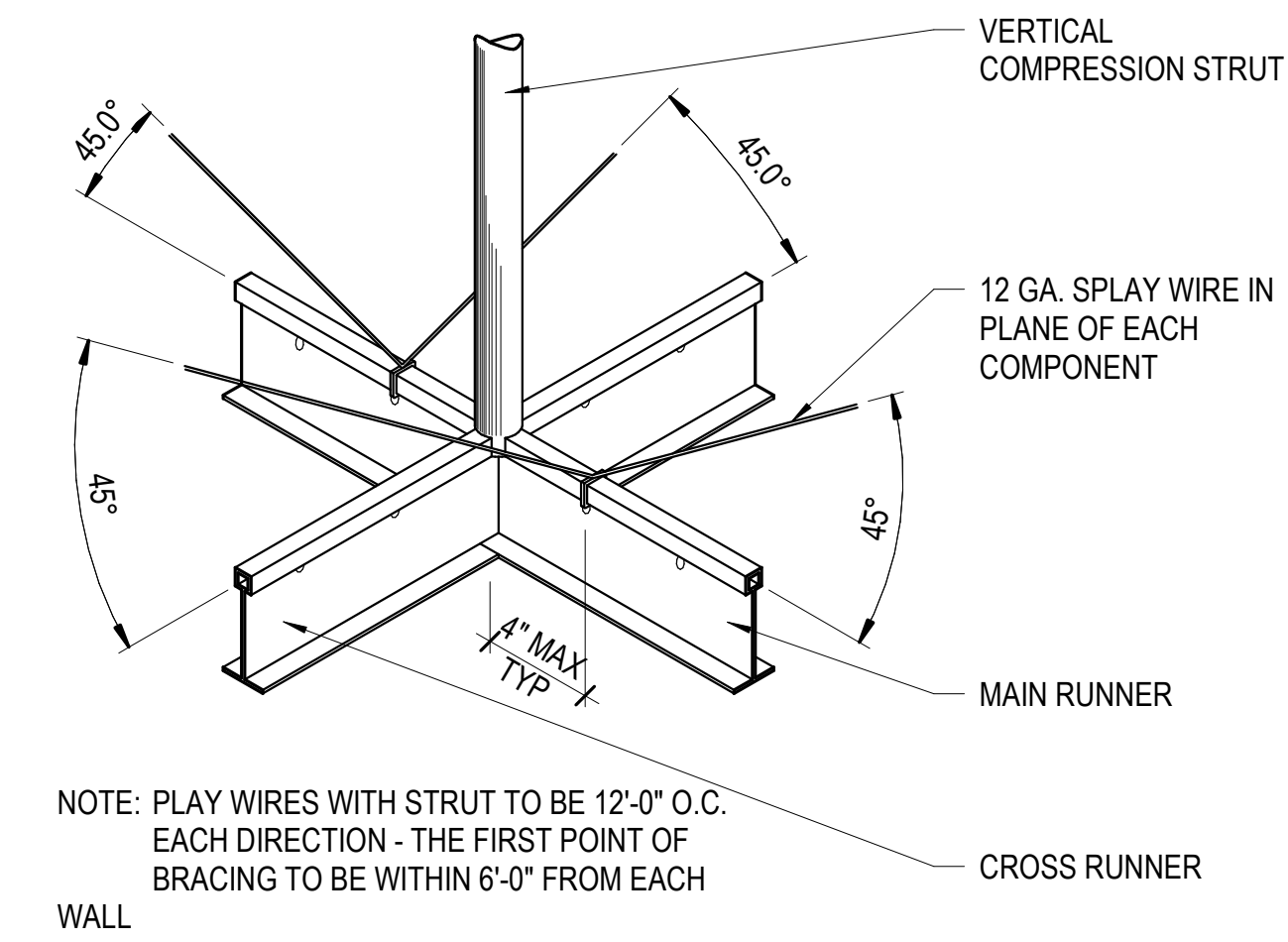
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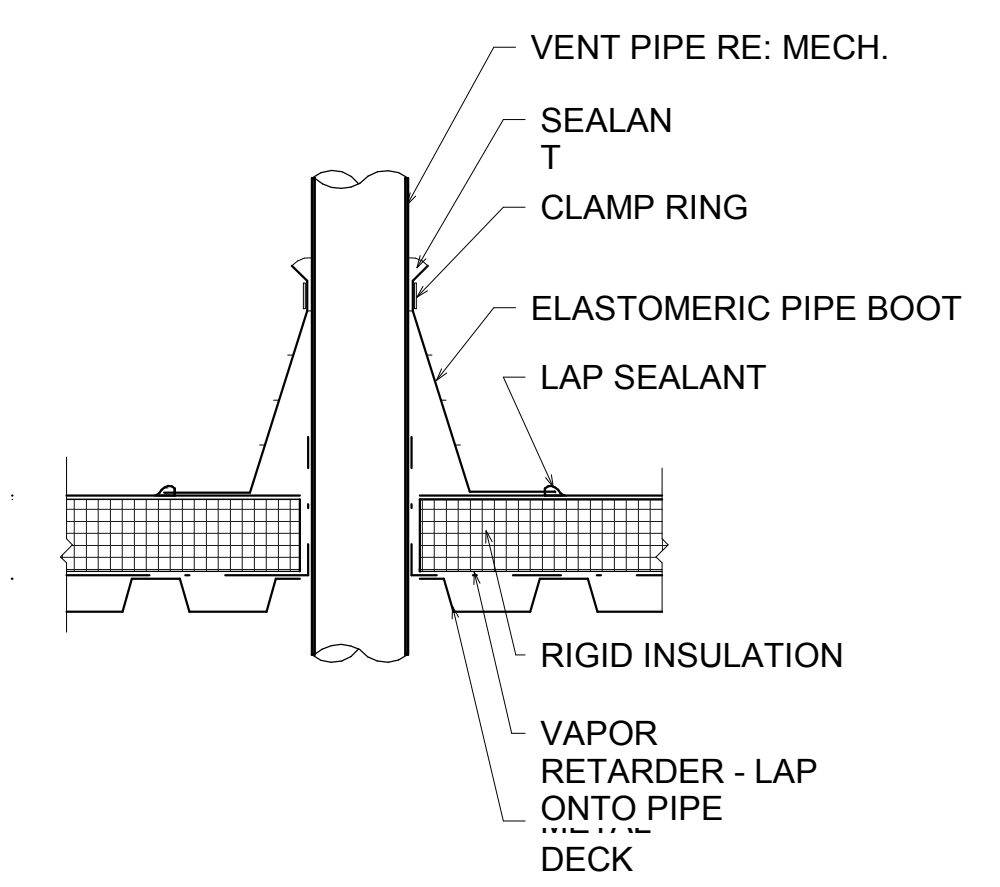
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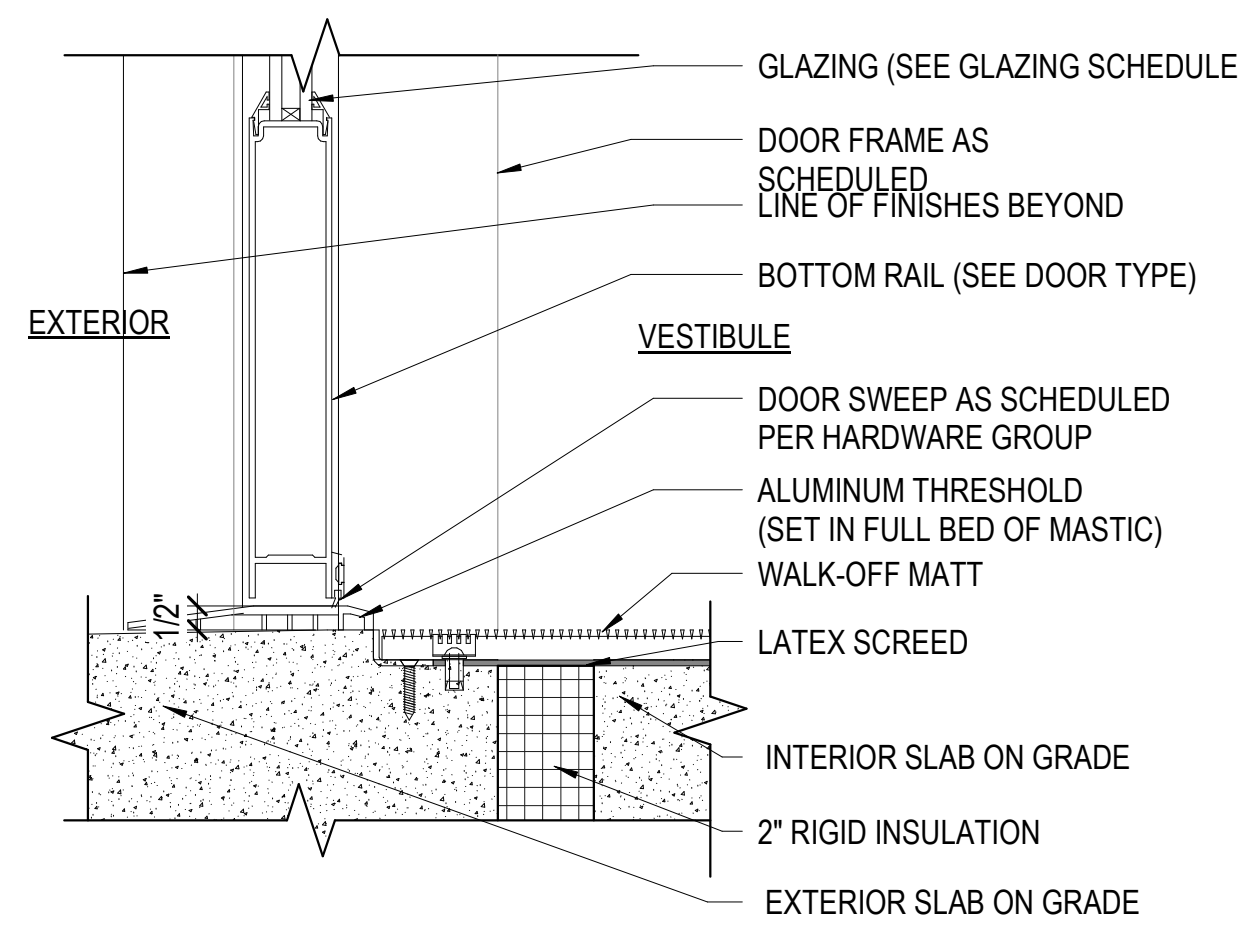
17 CEILING DETAIL
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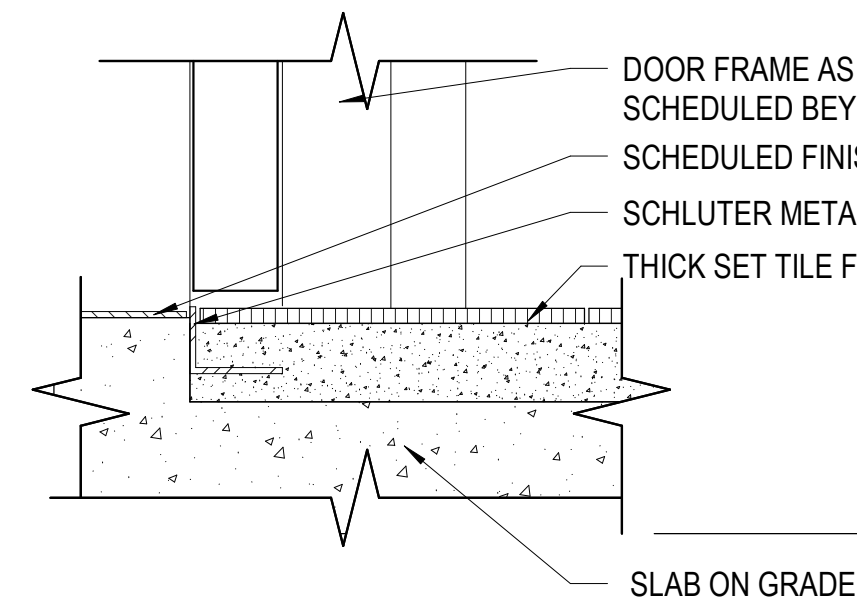
18 TYPICAL CEILING DETAIL
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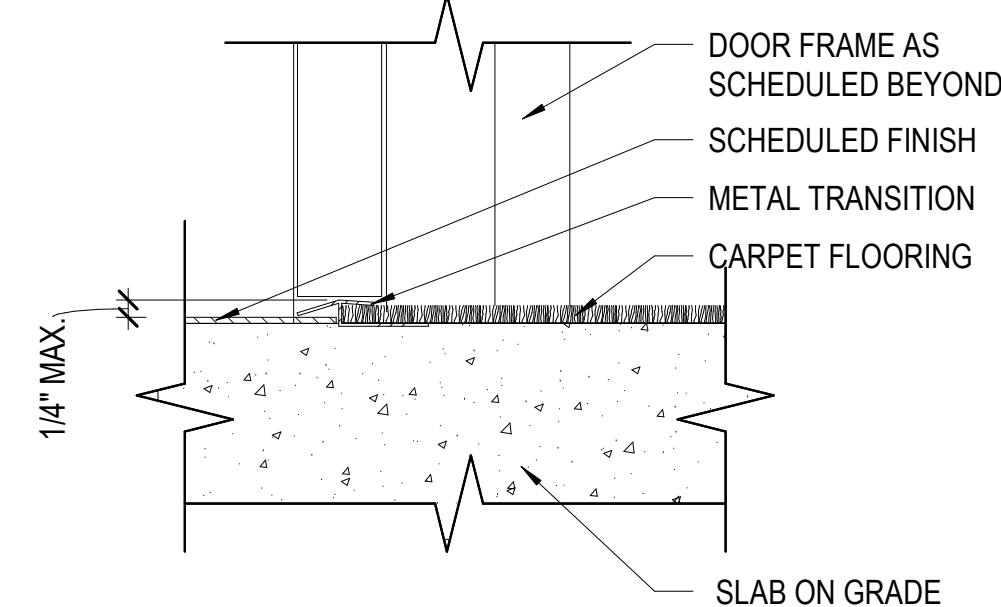
19 DETAIL OF PIPE PENETRATION
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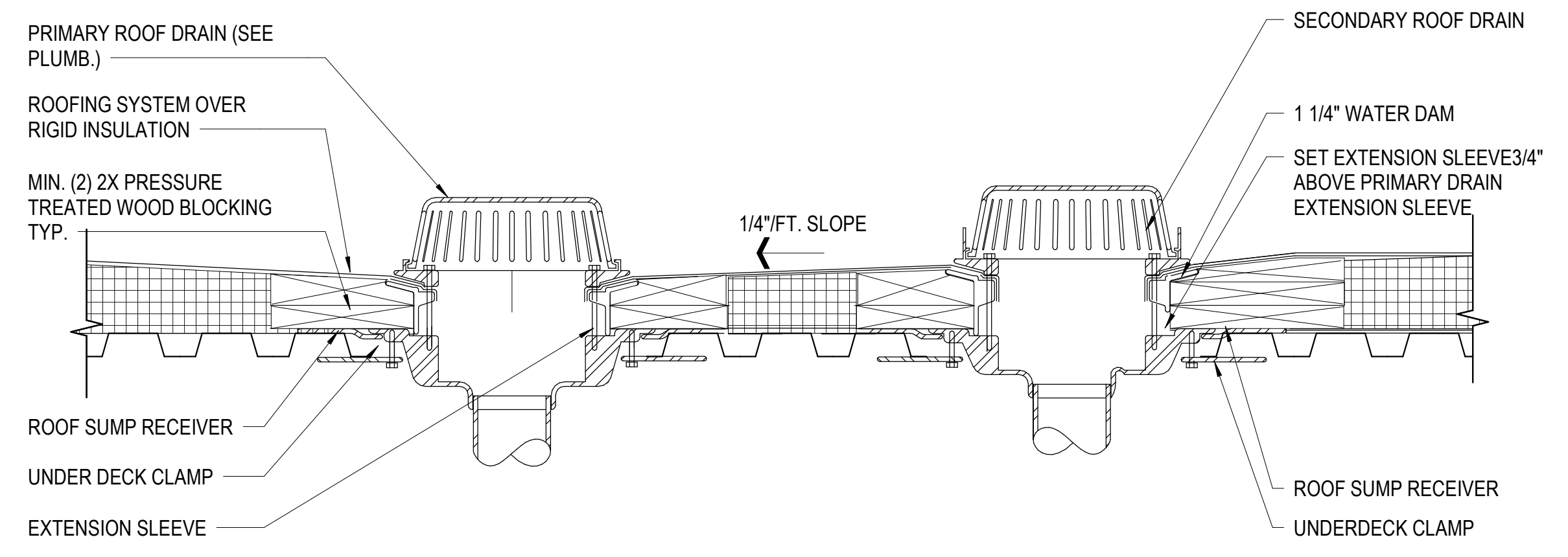
11 EXTERIOR DOOR DETAIL
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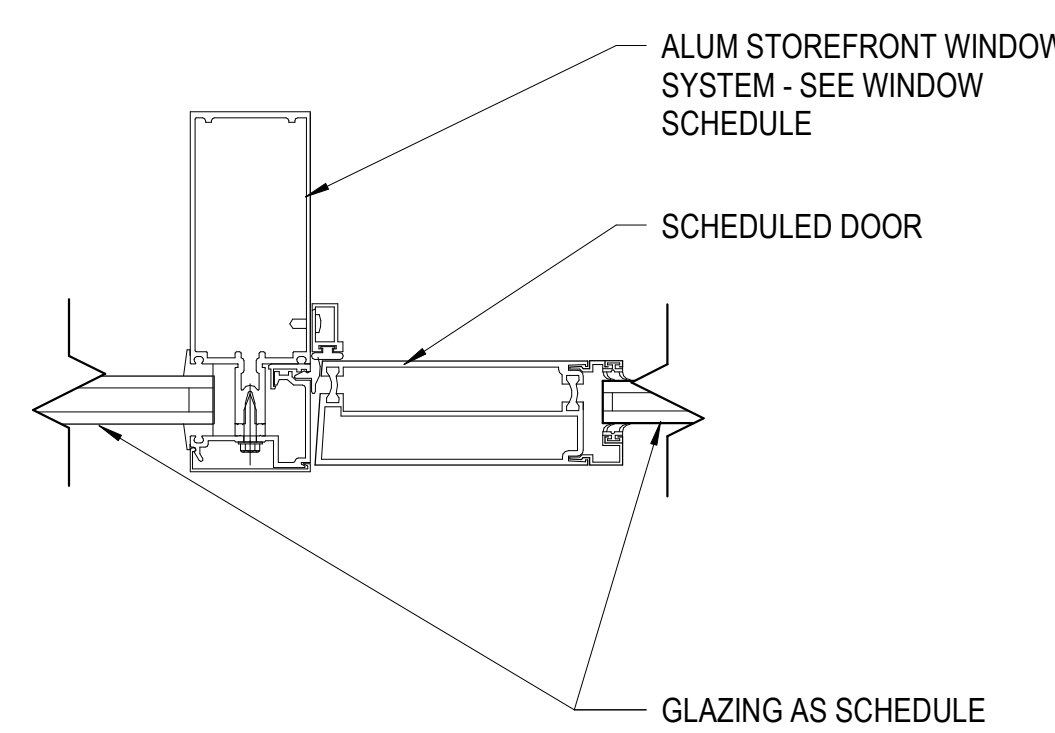
12 TILE FLOOR THRESHOLD DETAIL
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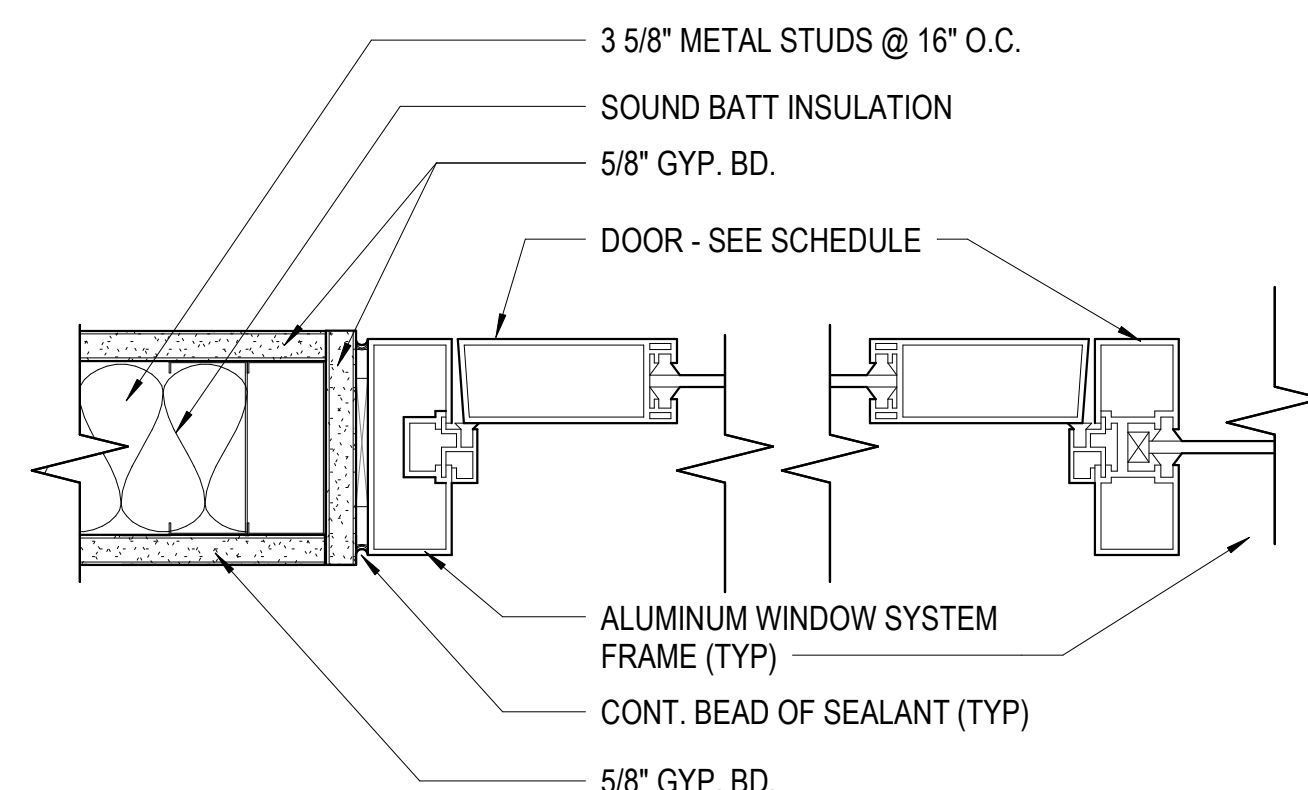
13 FLOOR THRESHOLD DETAIL
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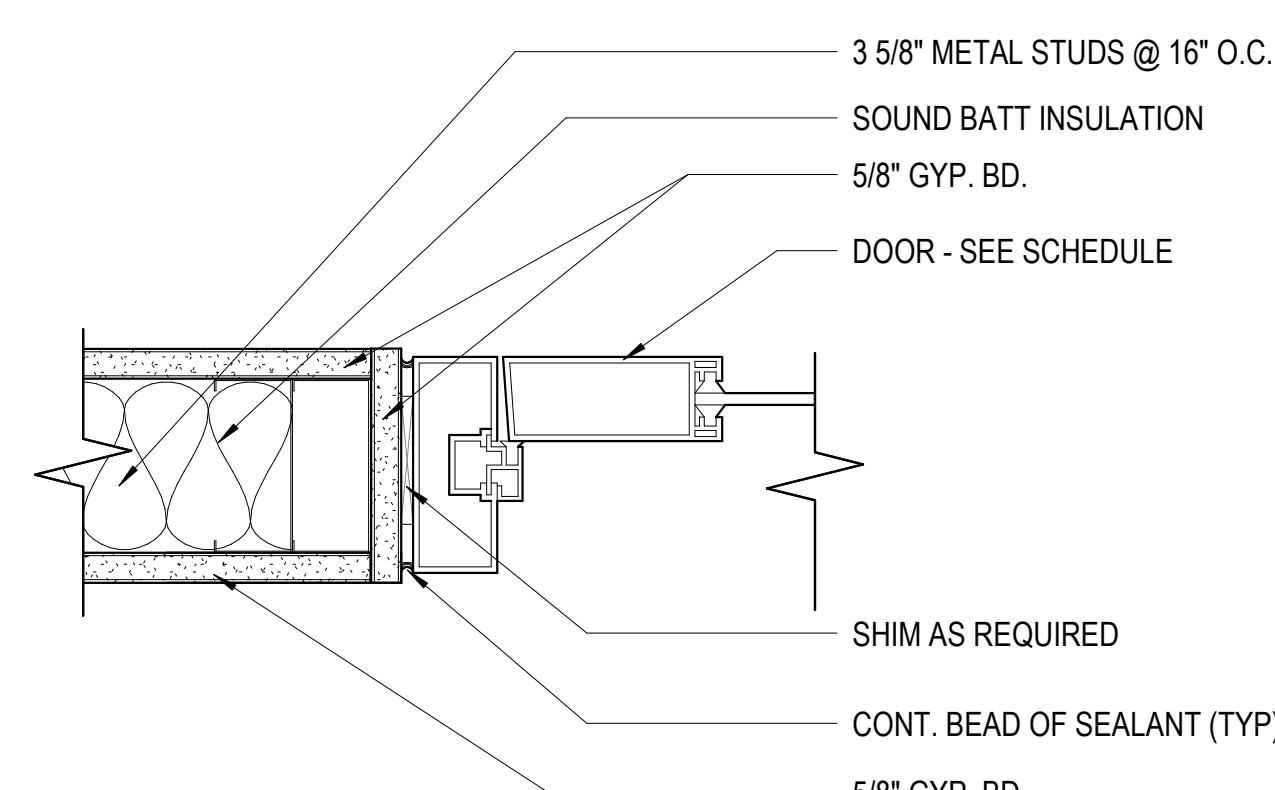
14 ROOF DRAIN DETAIL
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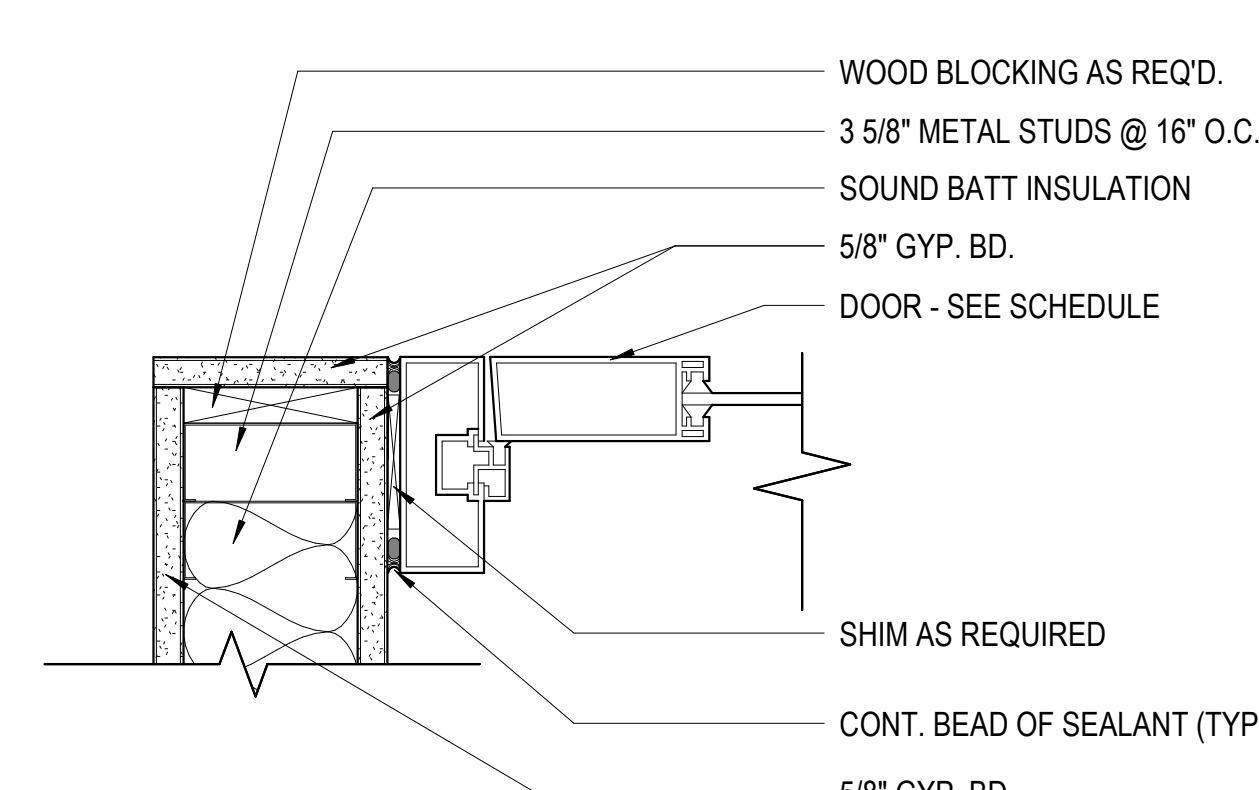
6 CURTAIN WALL MULLION DETAIL
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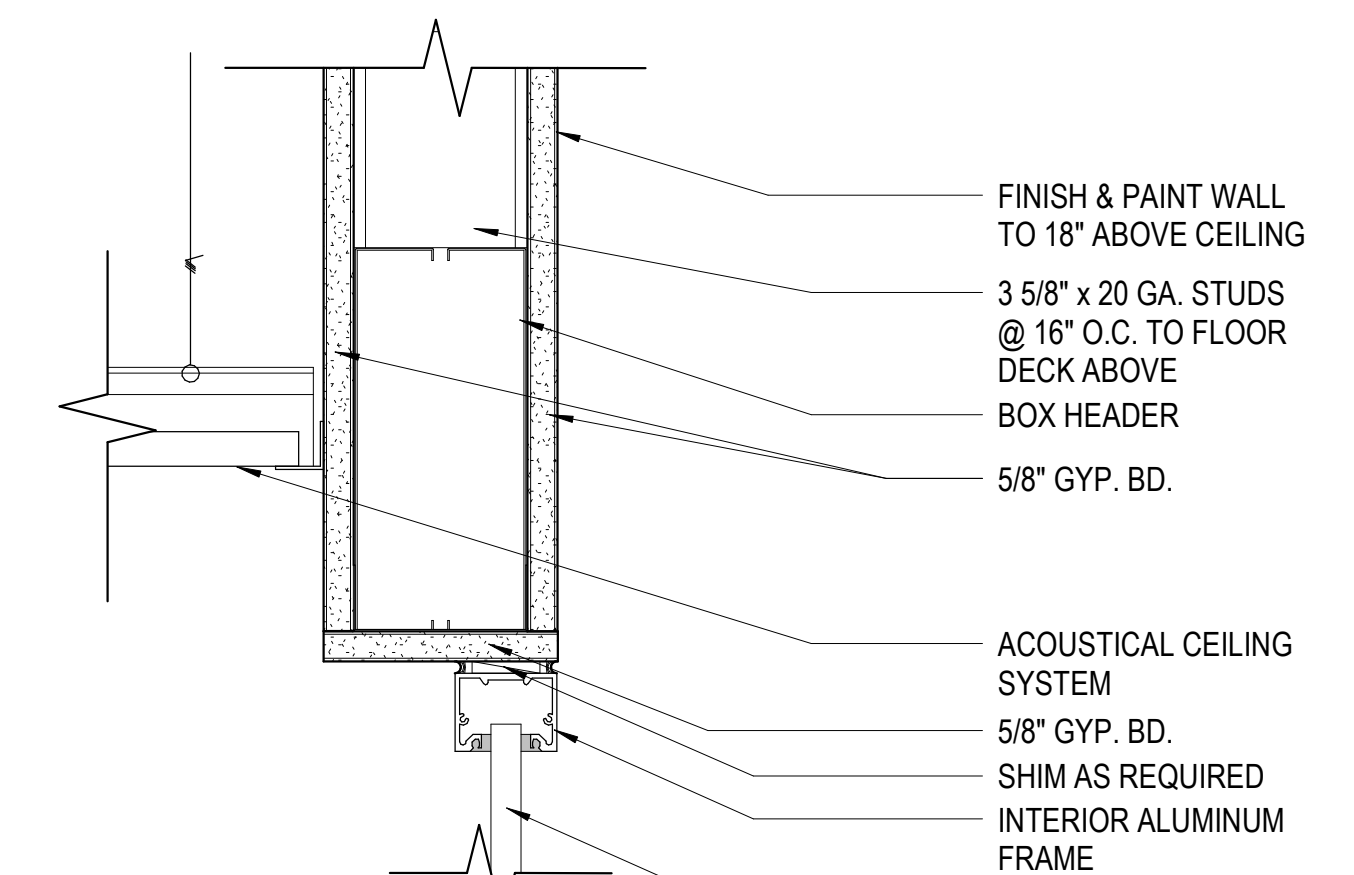
7 DOOR JAMB
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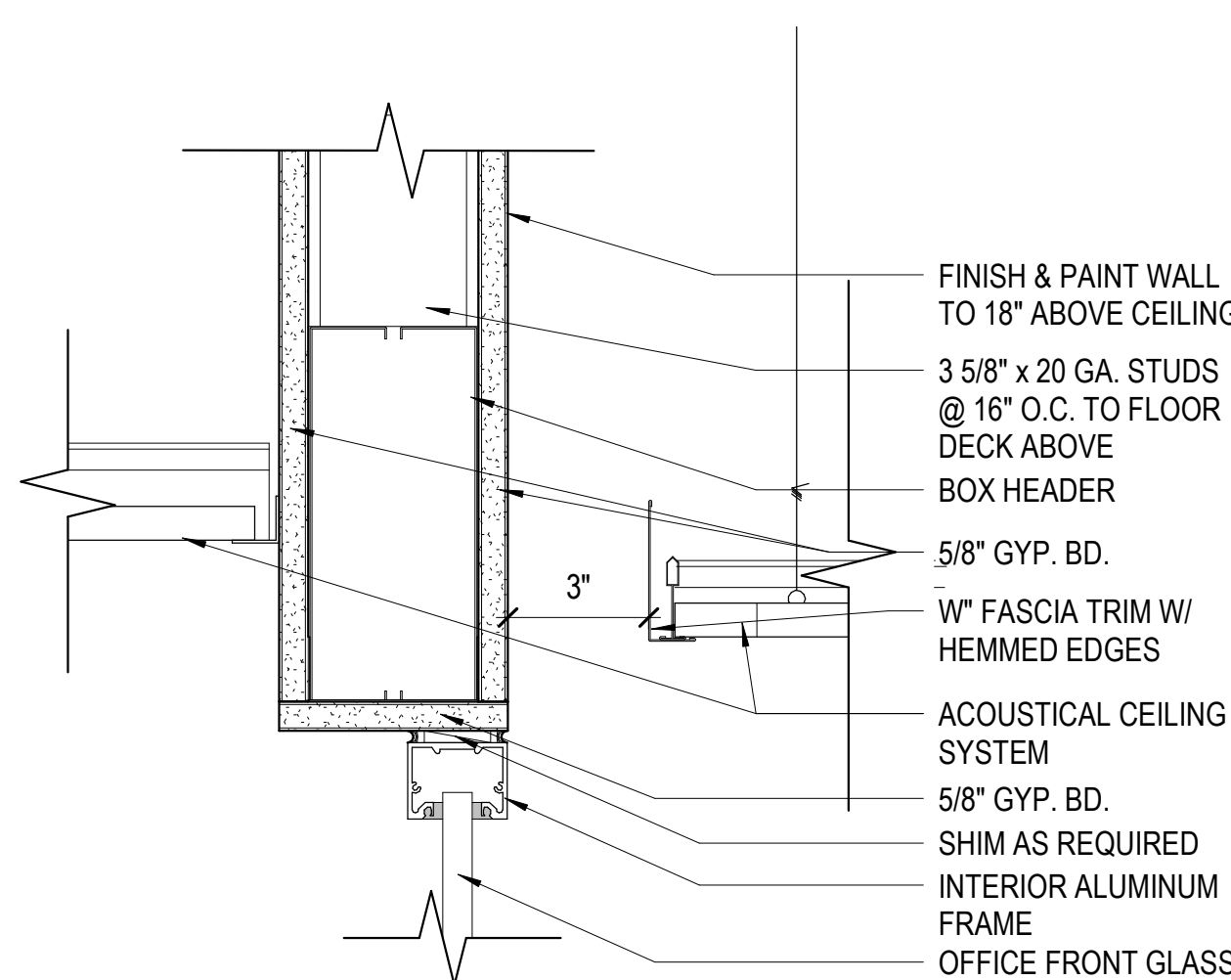
8 DOOR JAMB
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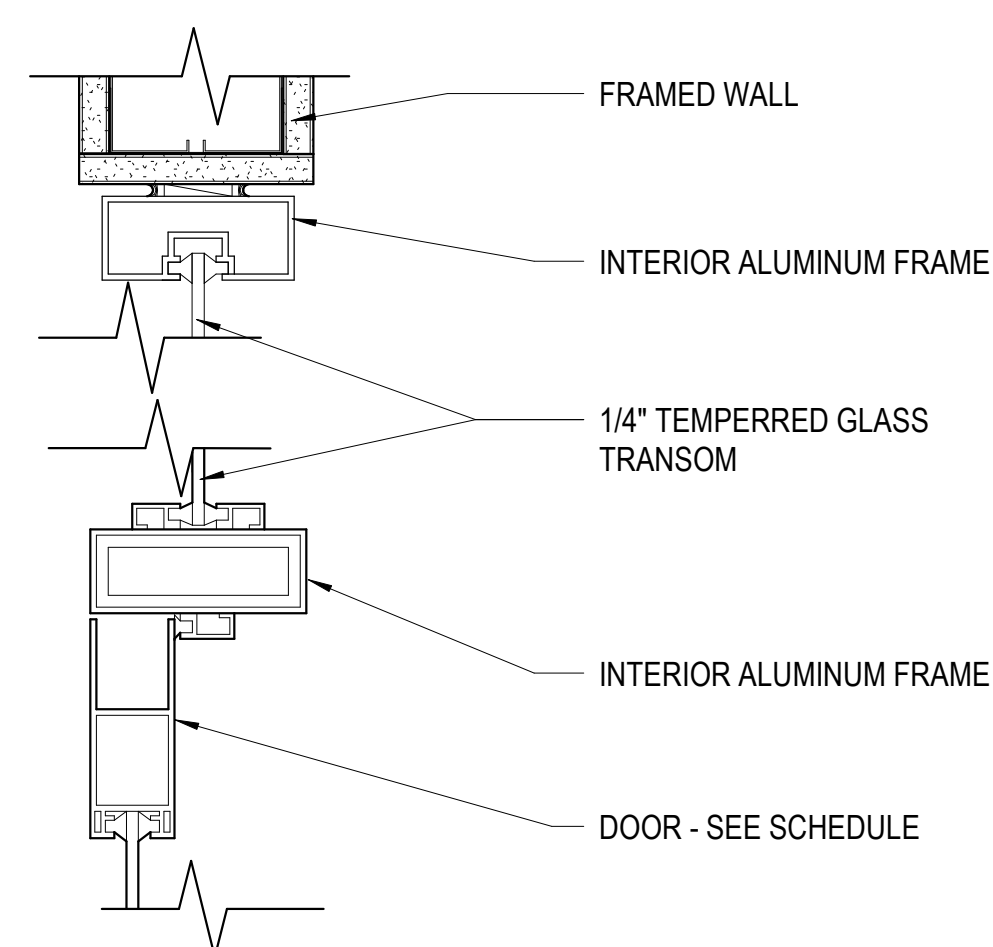
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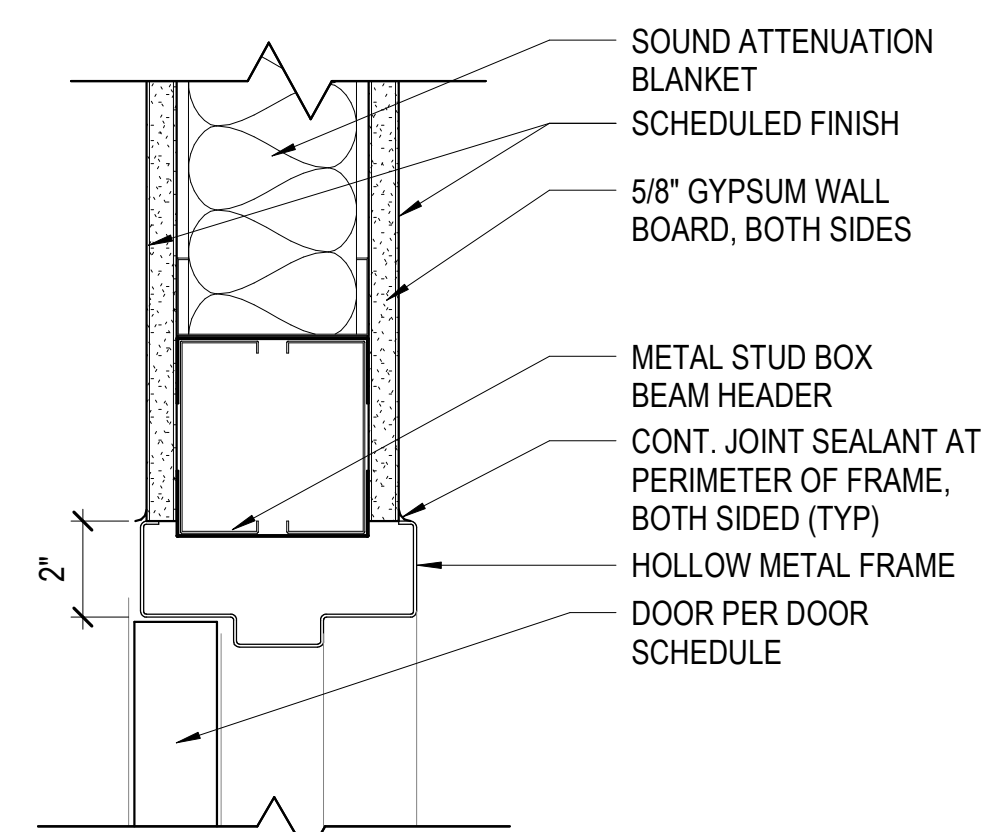
10 CEILING HEAD DETAIL
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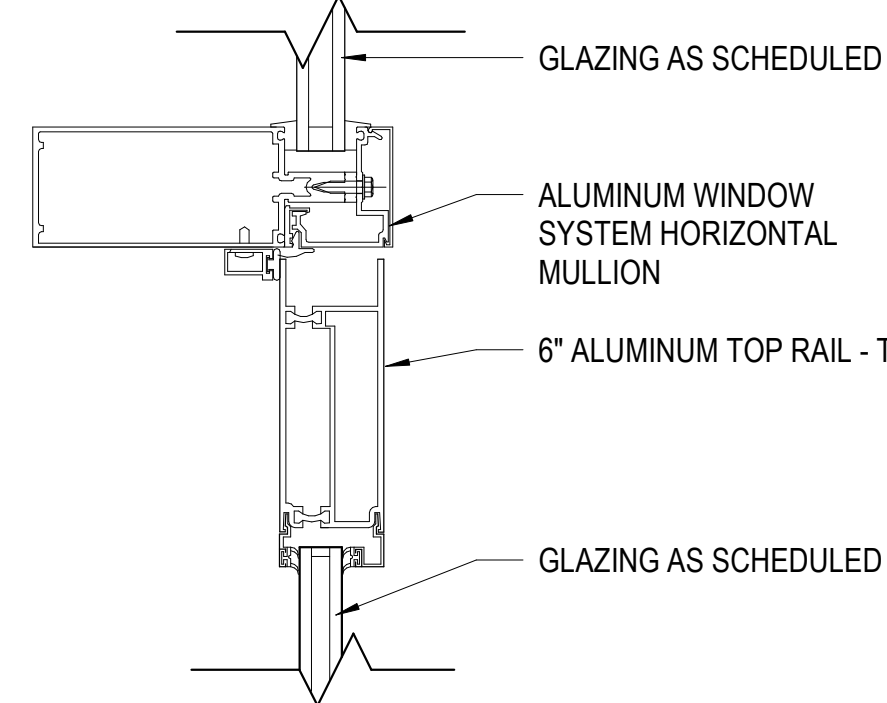
1 CEILING DETAIL
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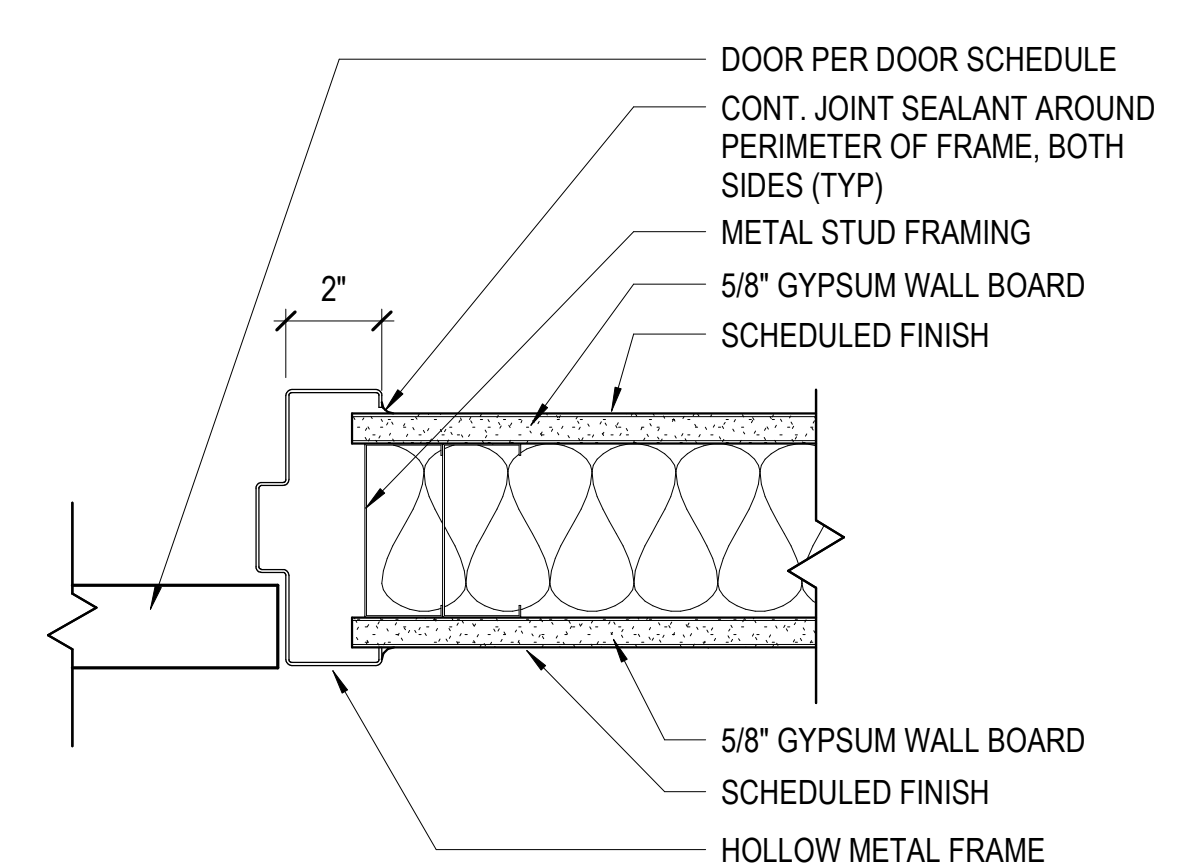
2 HEAD DETAIL
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3 DOOR HEADER
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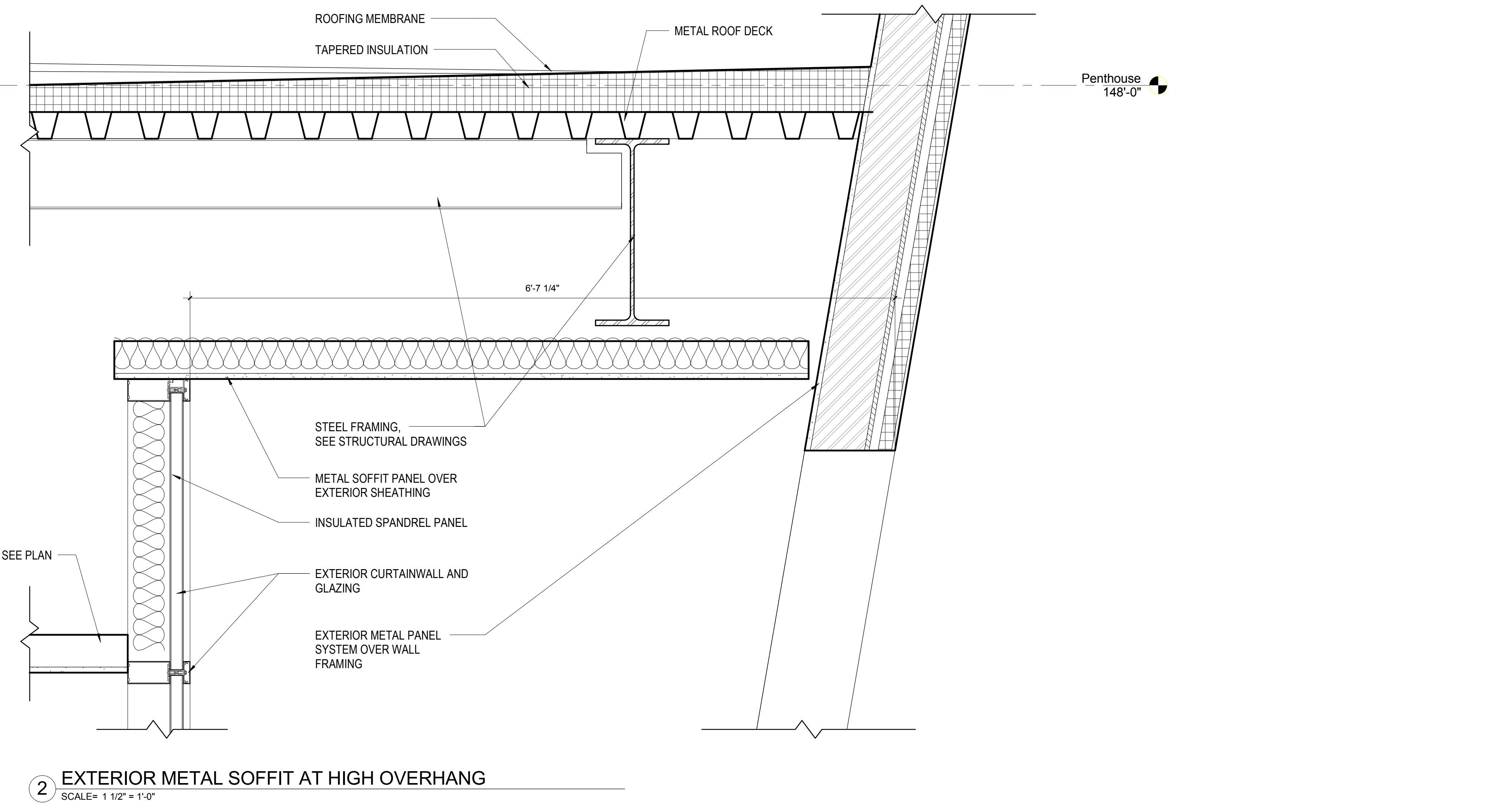
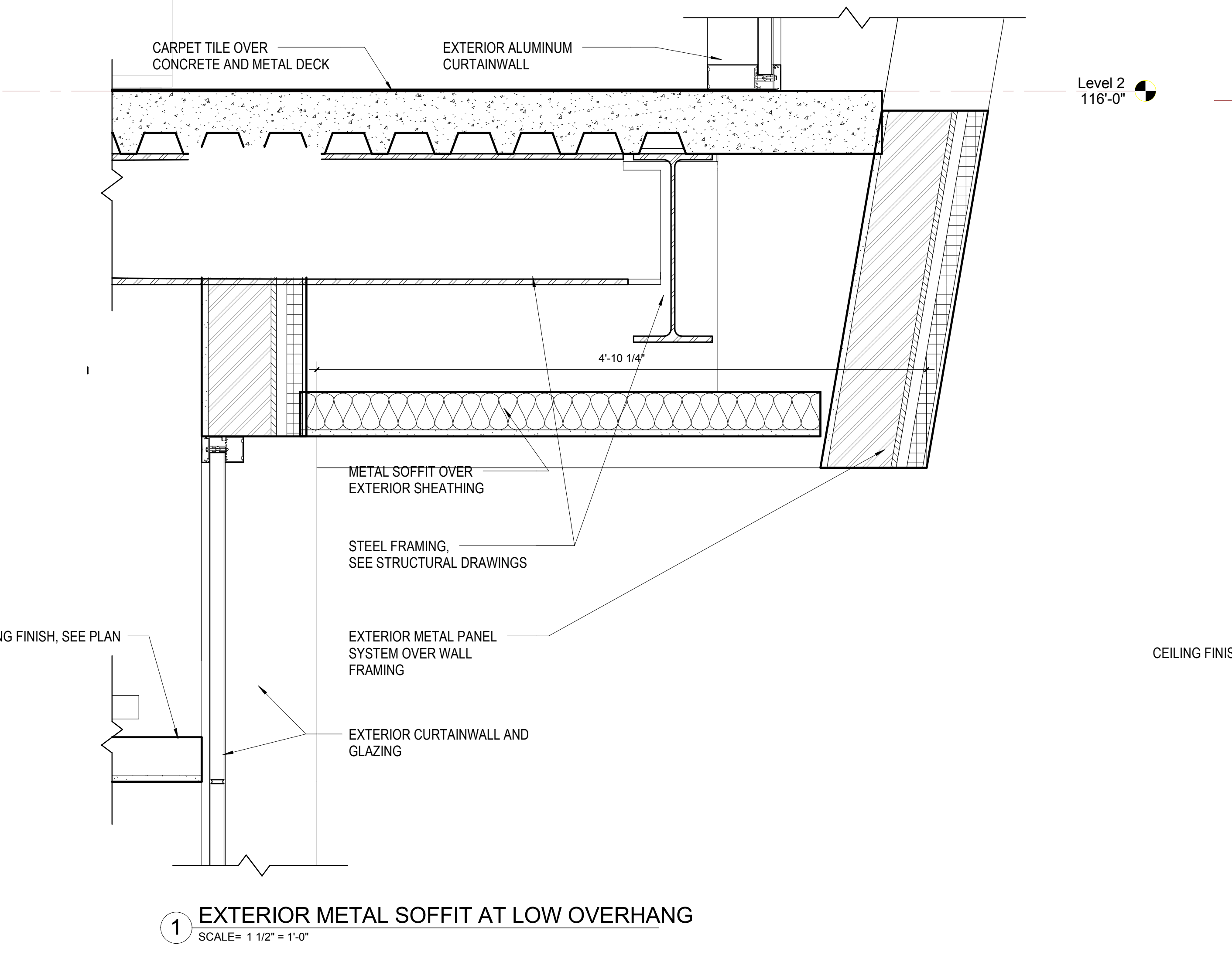
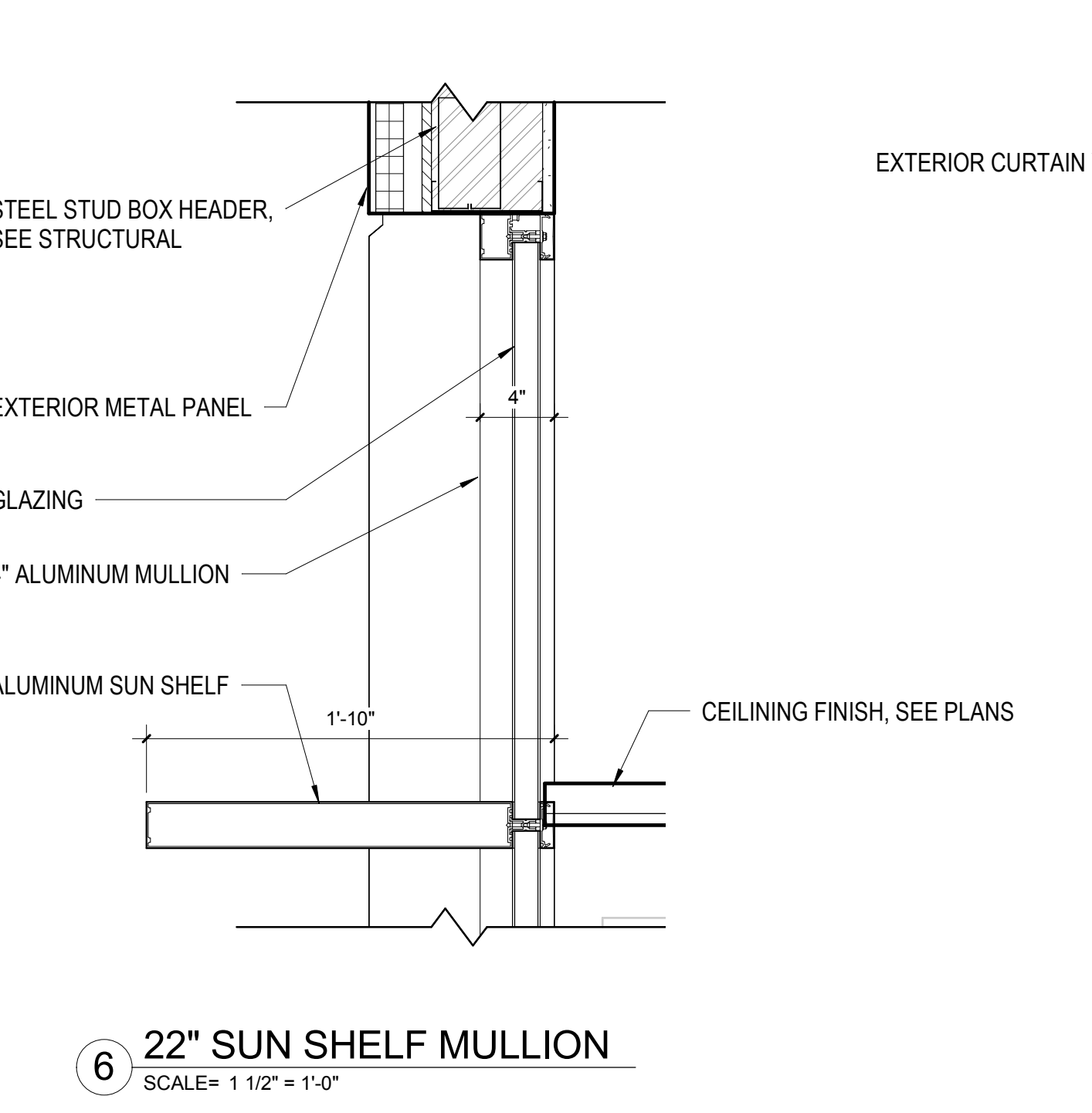
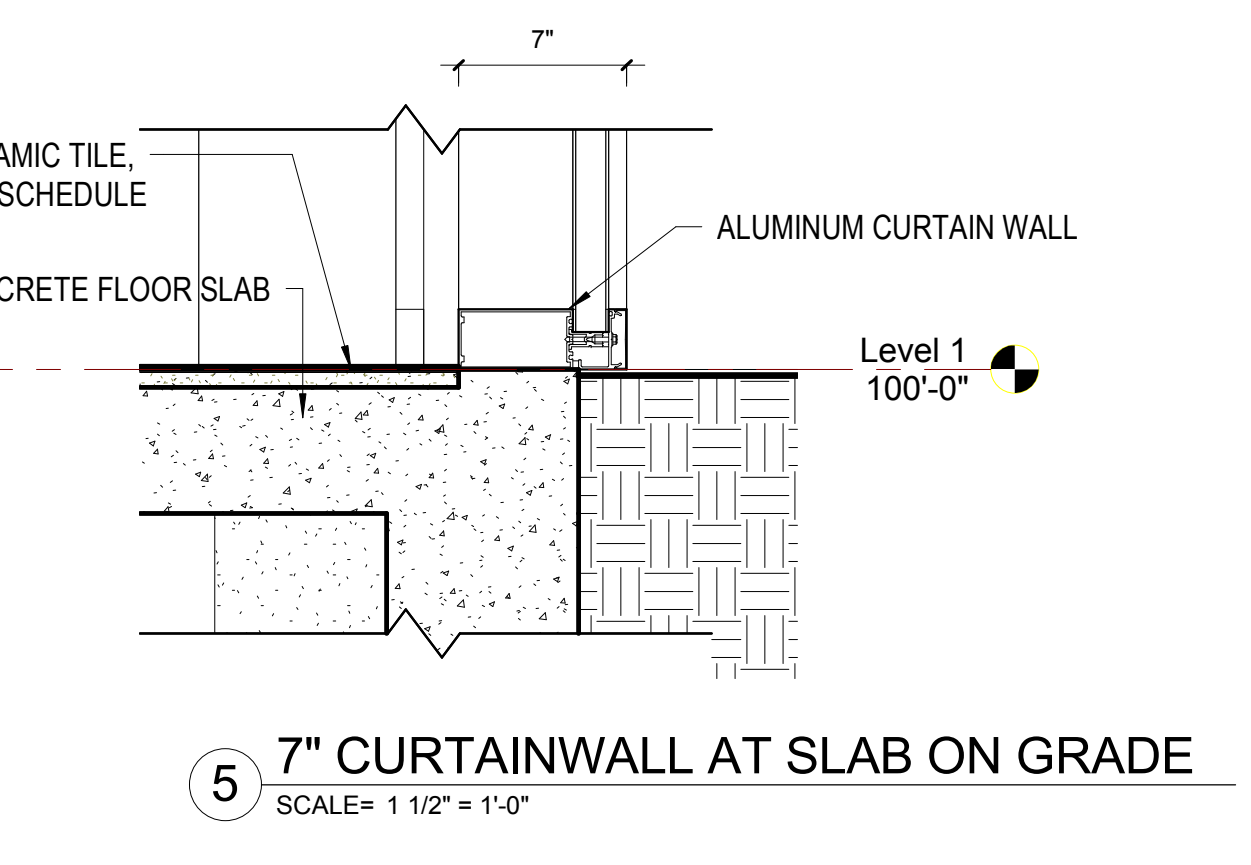
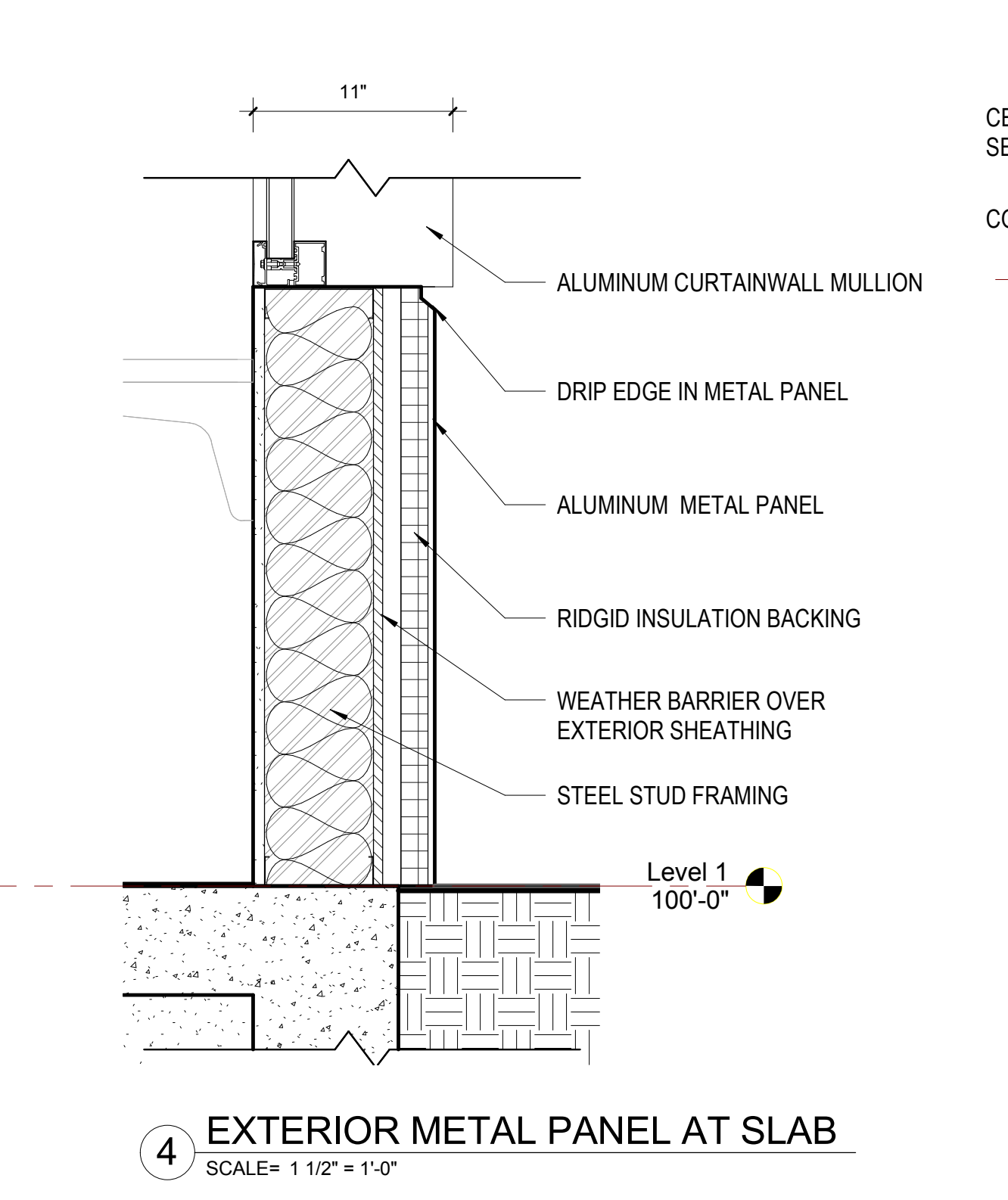
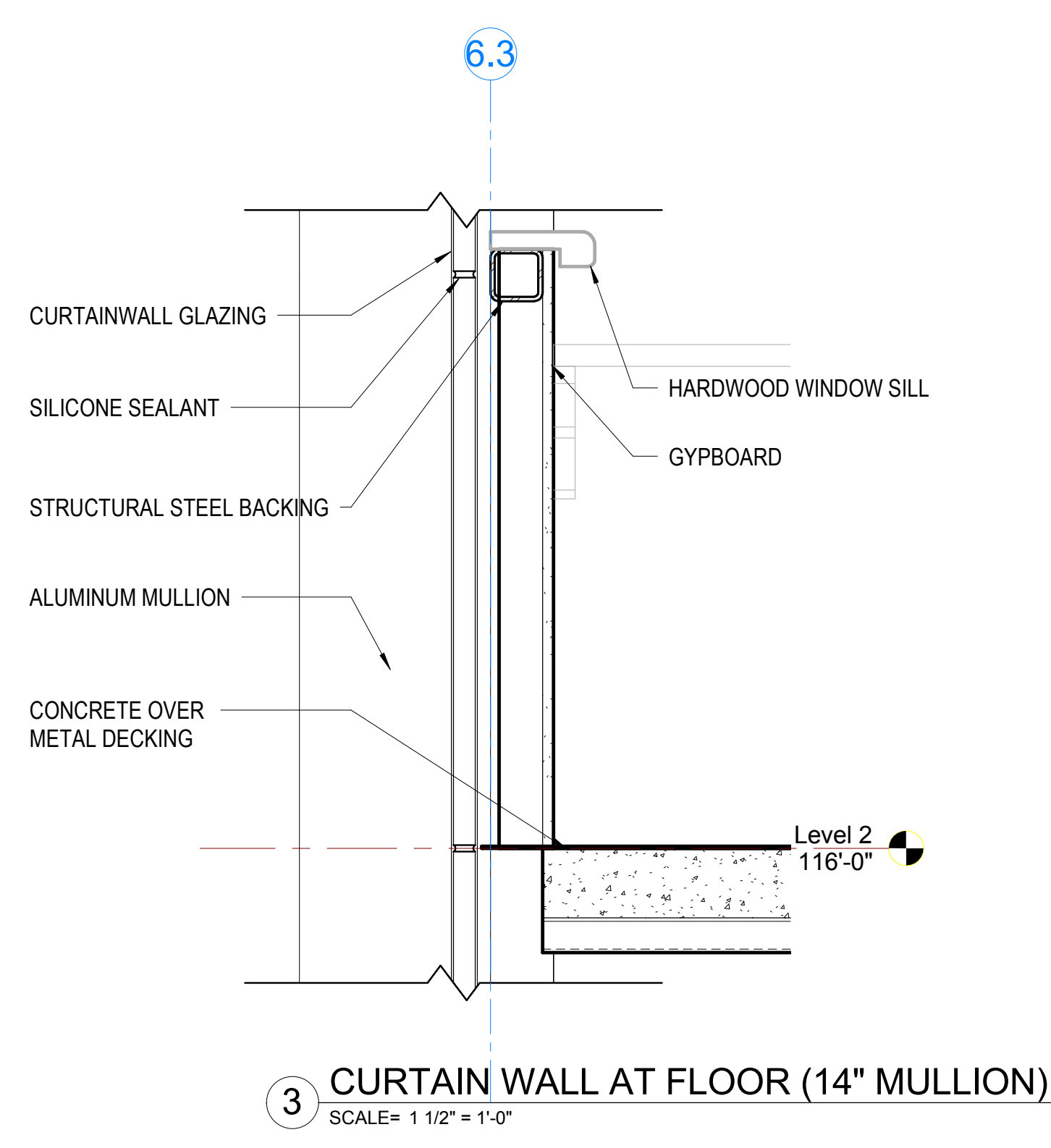
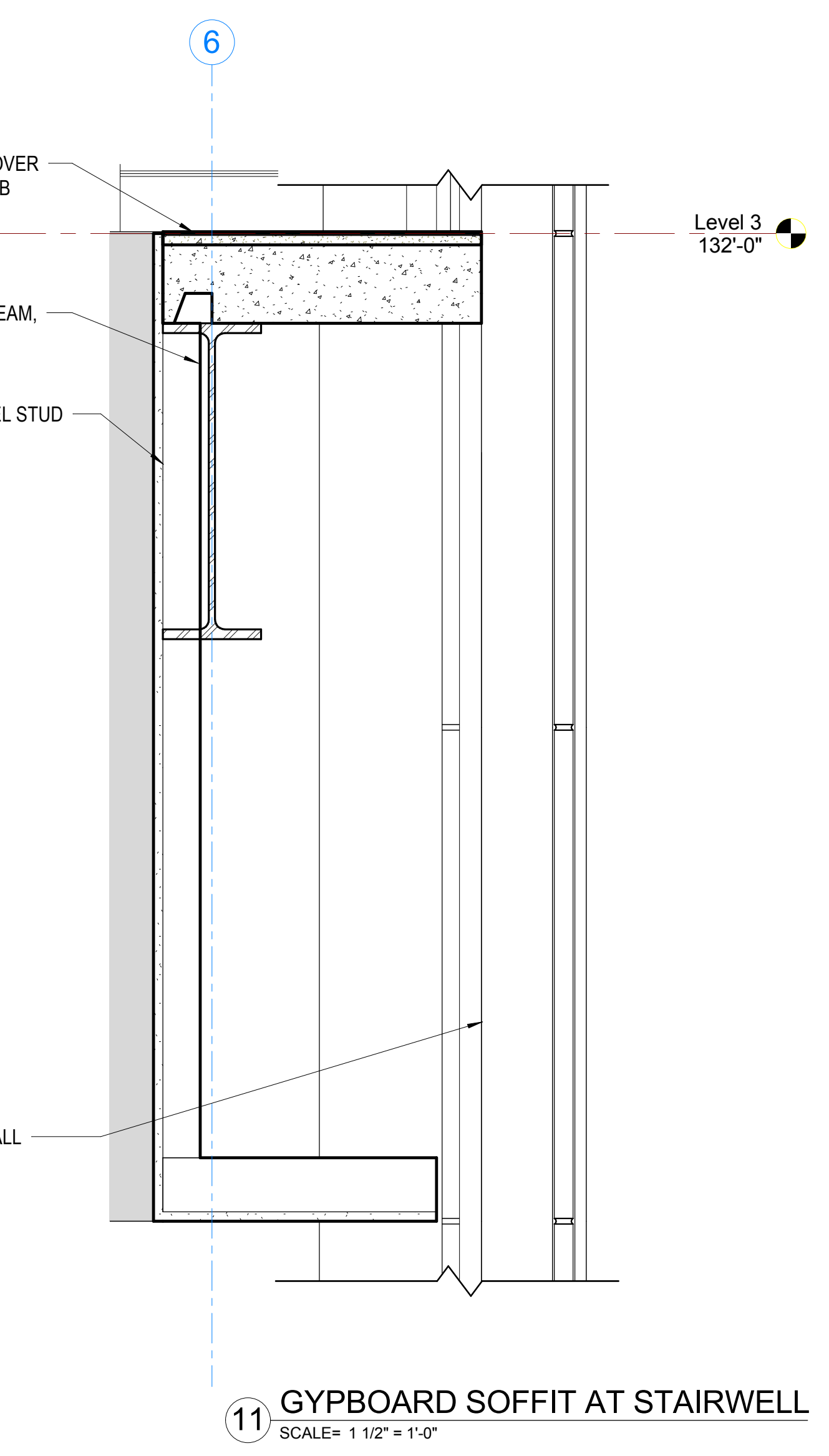
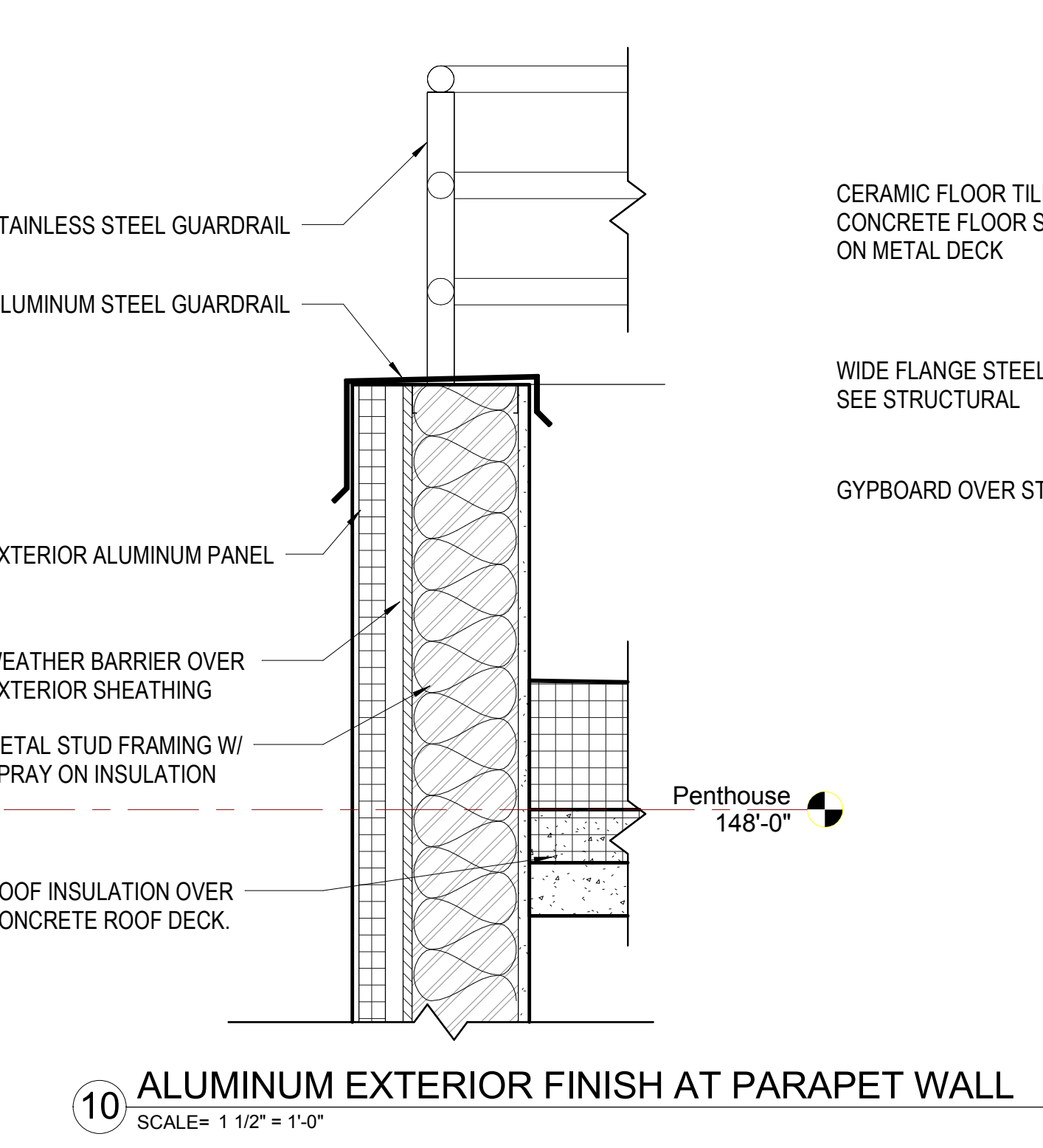
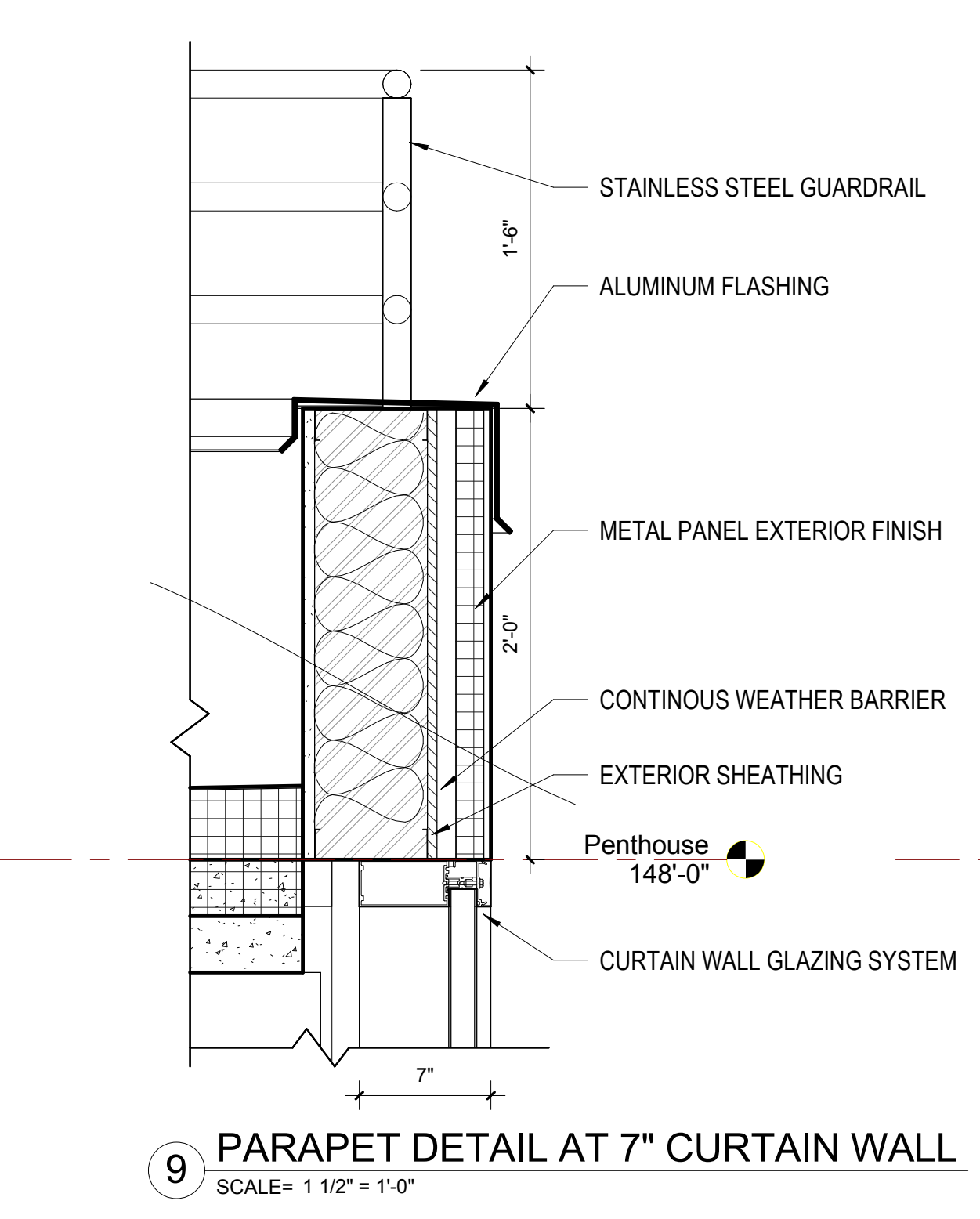
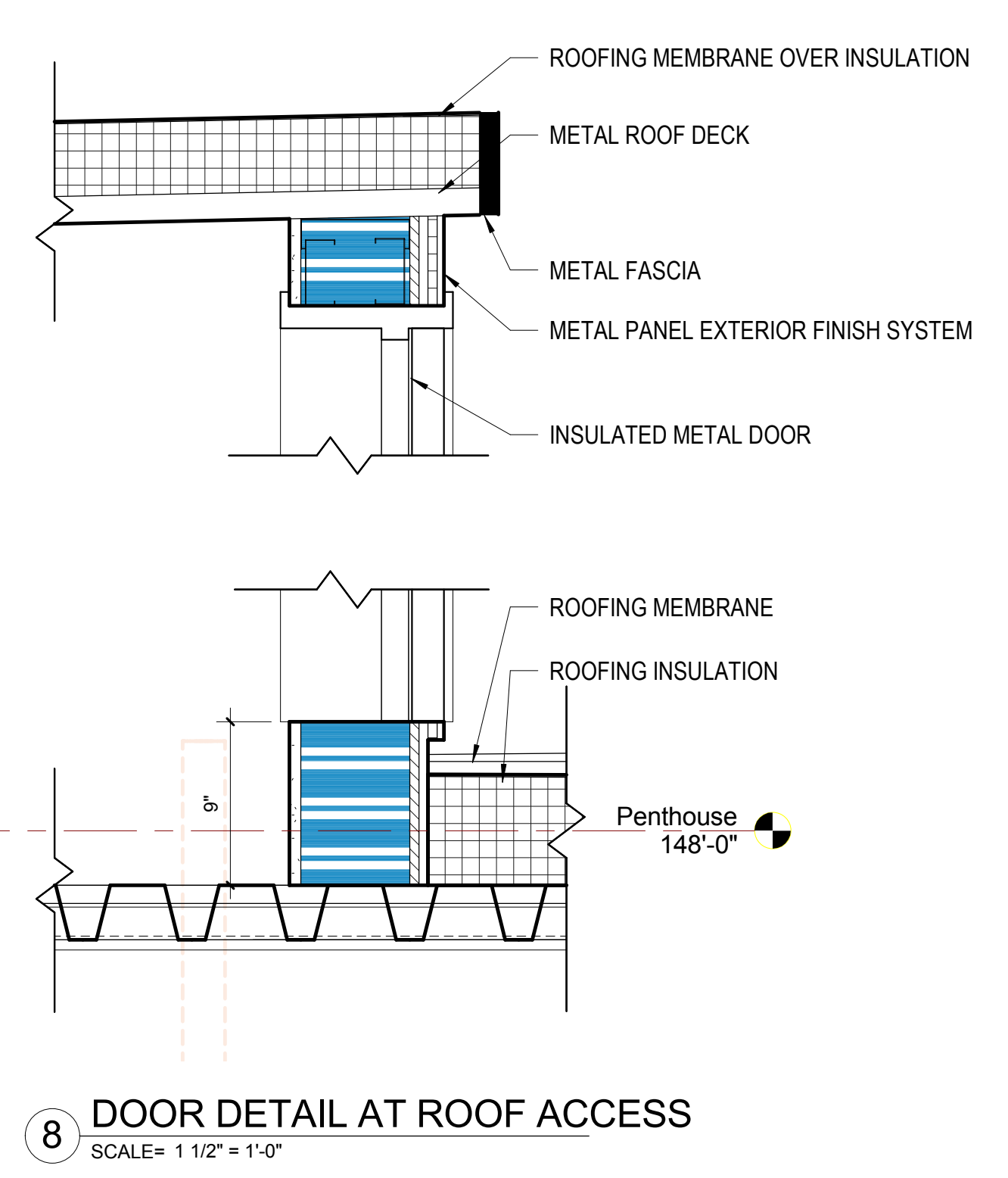
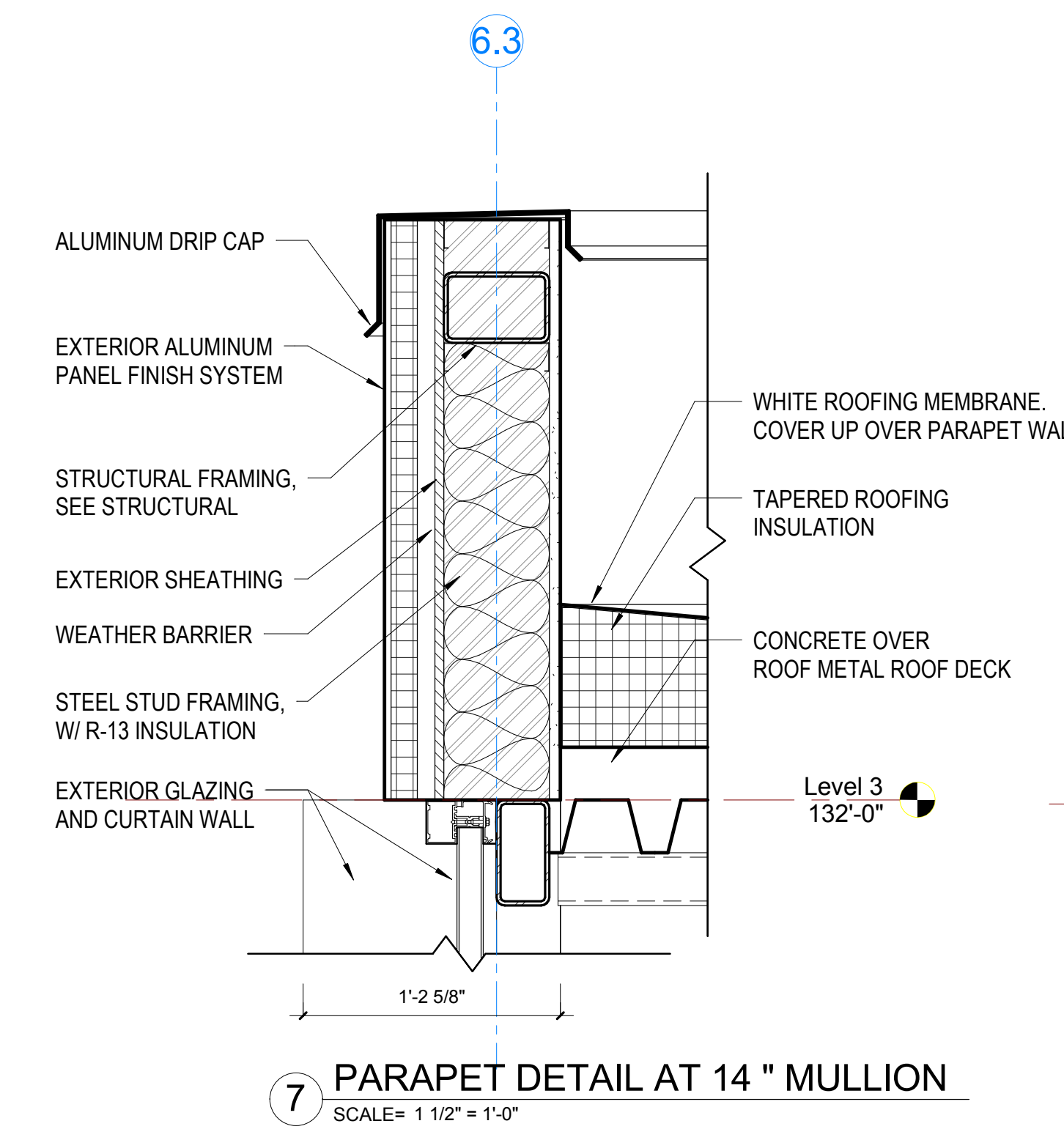


4 CURTAIN WALL HEAD DETAIL
SCALE= 3" = 1'-0"



5 TYPICAL JAMB DETAIL
SCALE= 3" = 1'-0"

Revision Schedule		
No.	Description	Date



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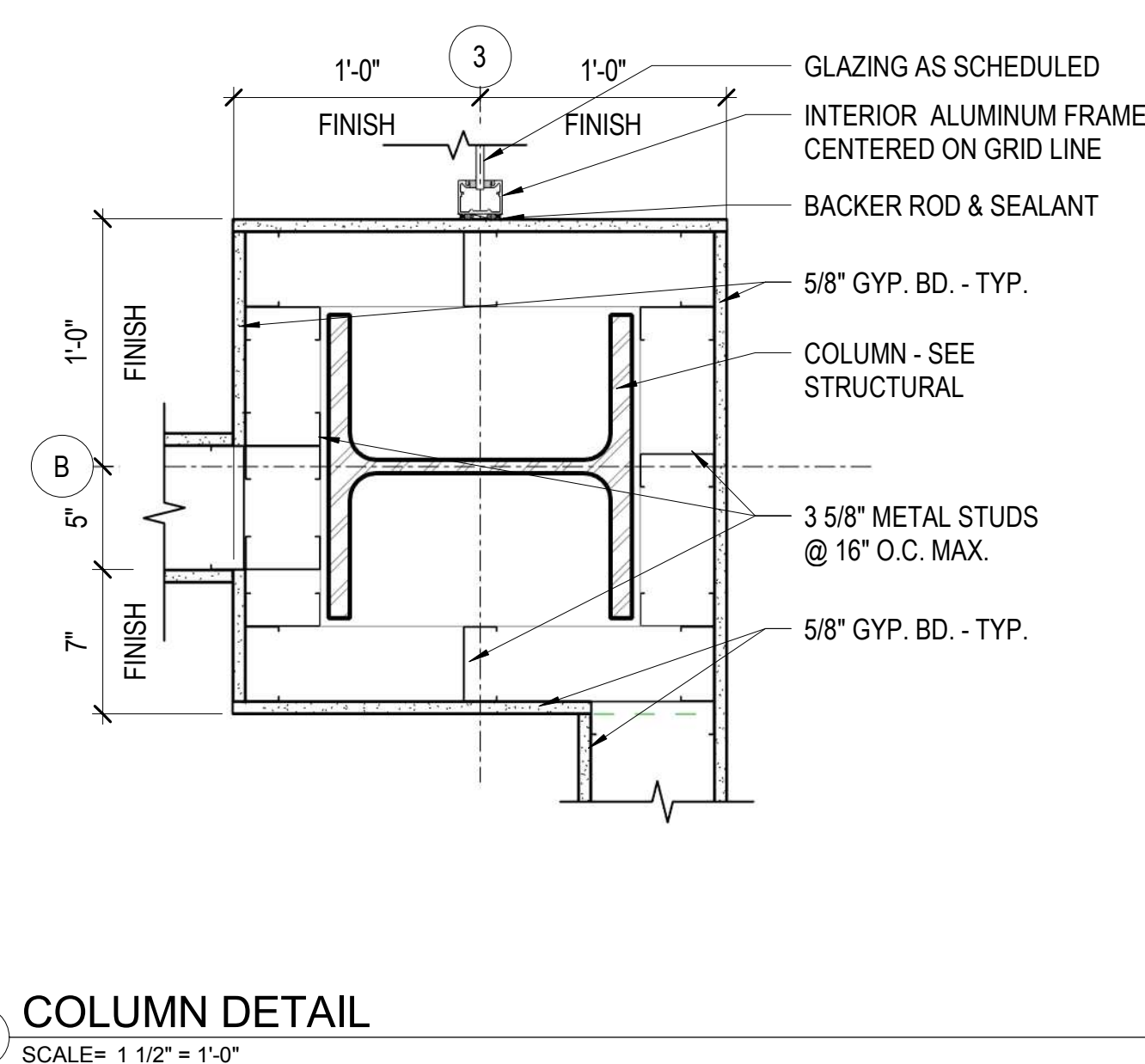
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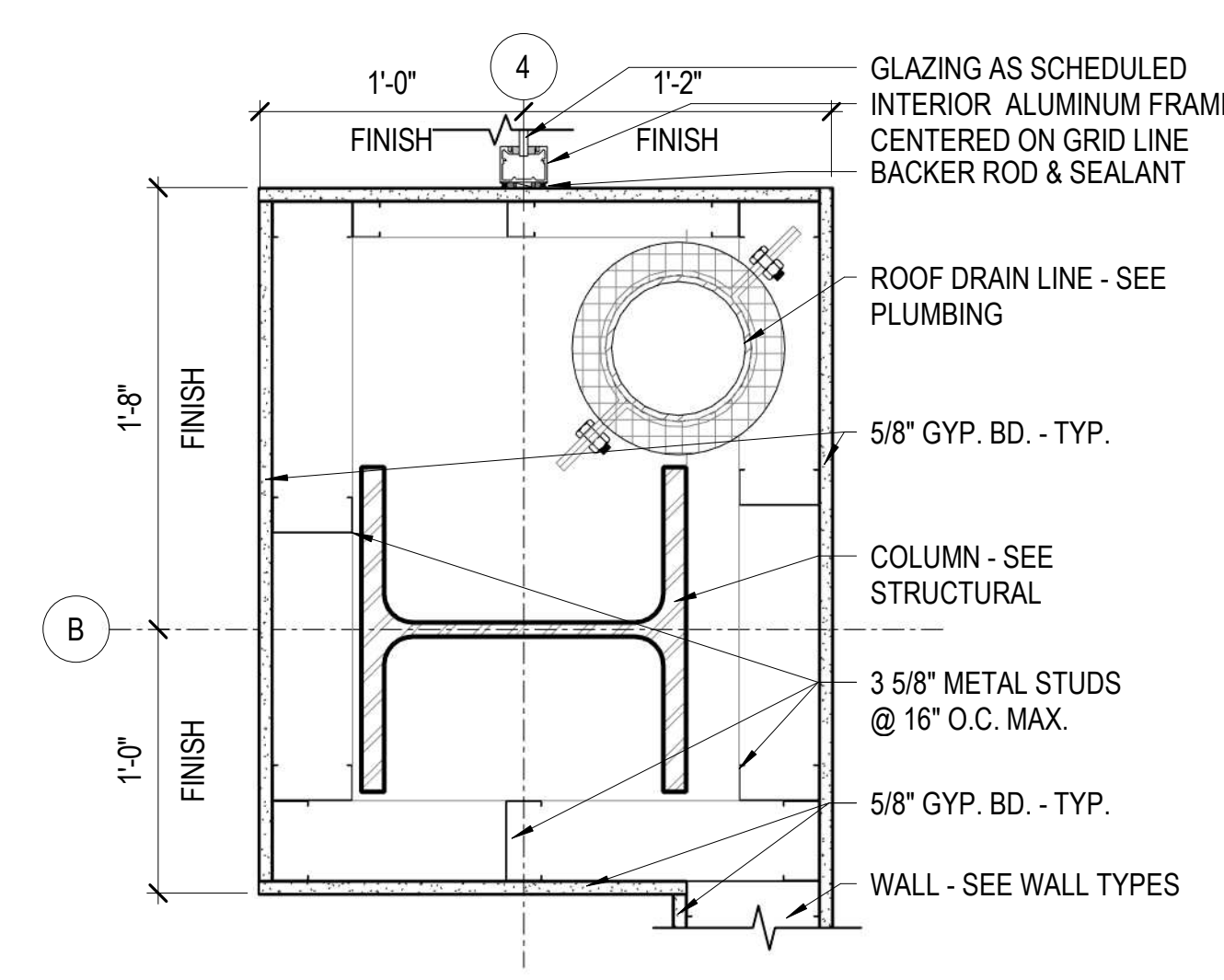
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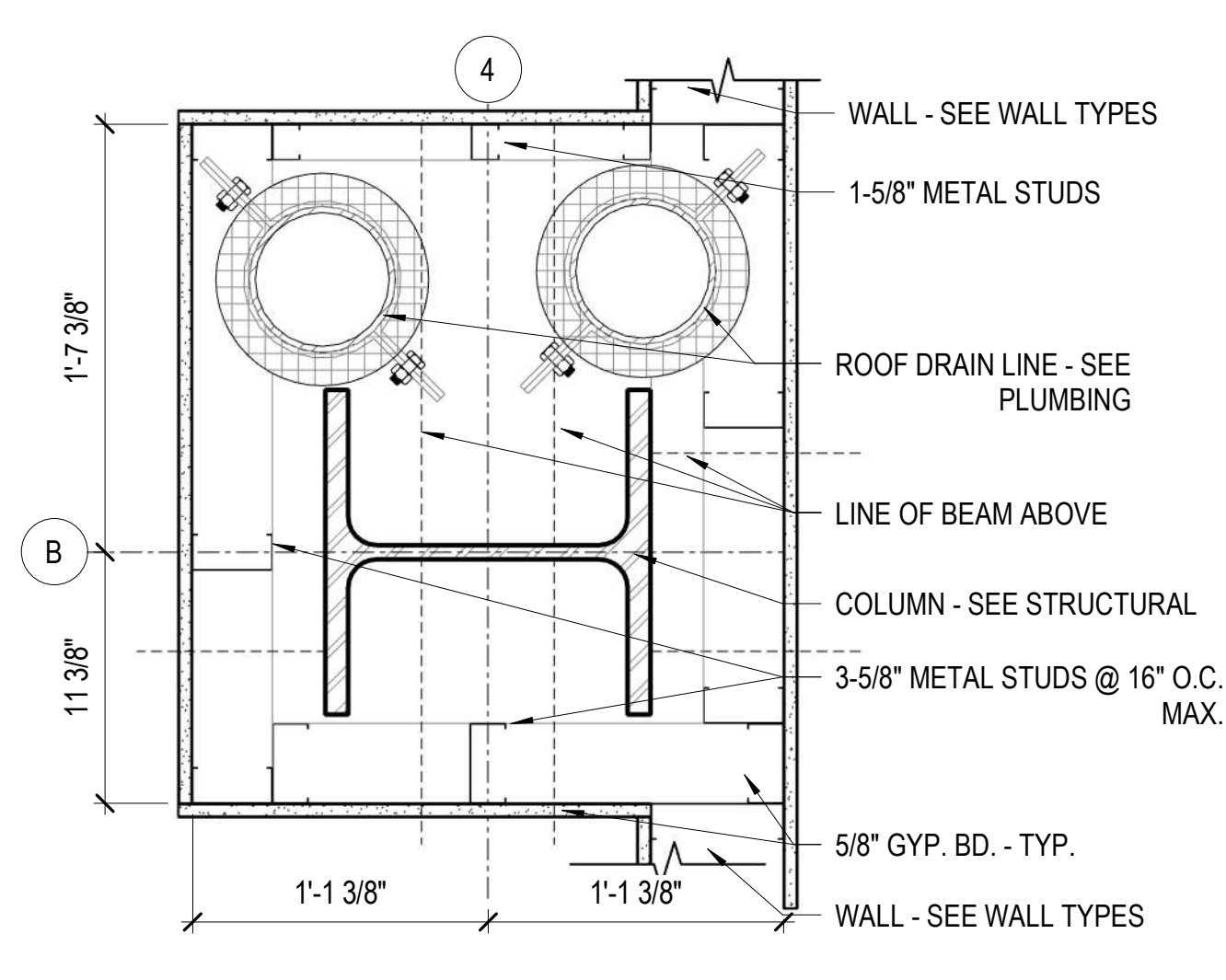
ART VANDELAY



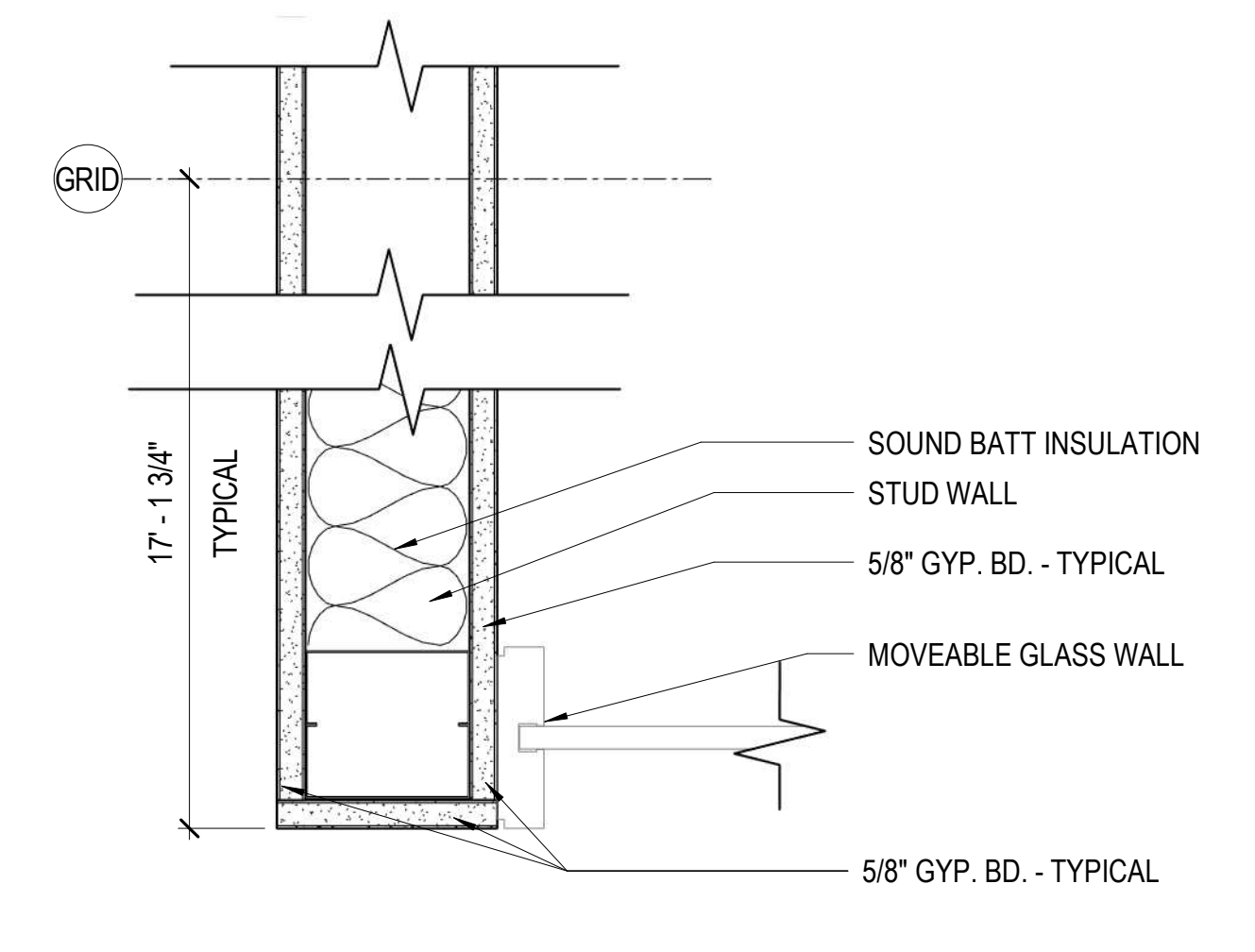
7 COLUMN DETAIL
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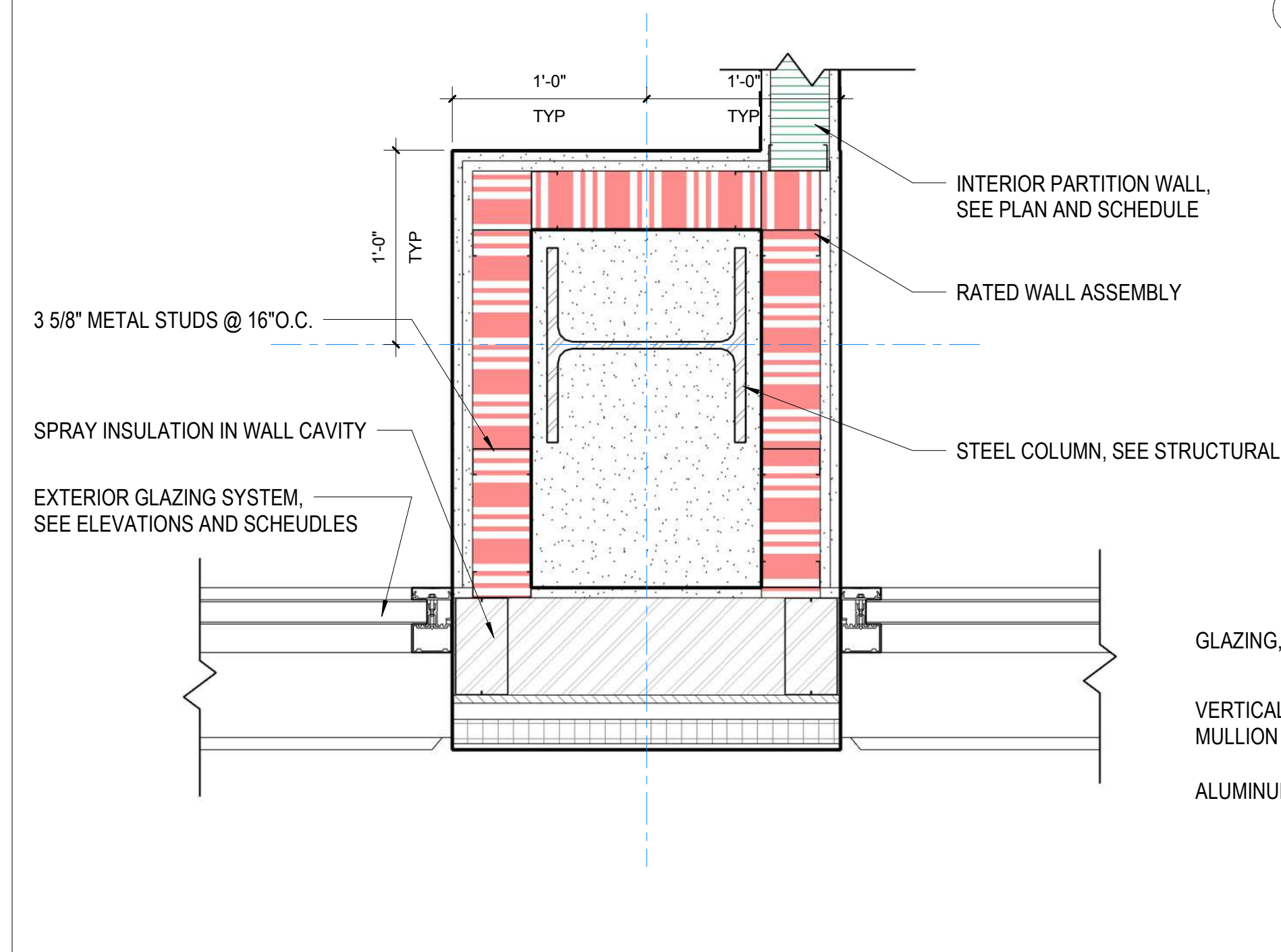
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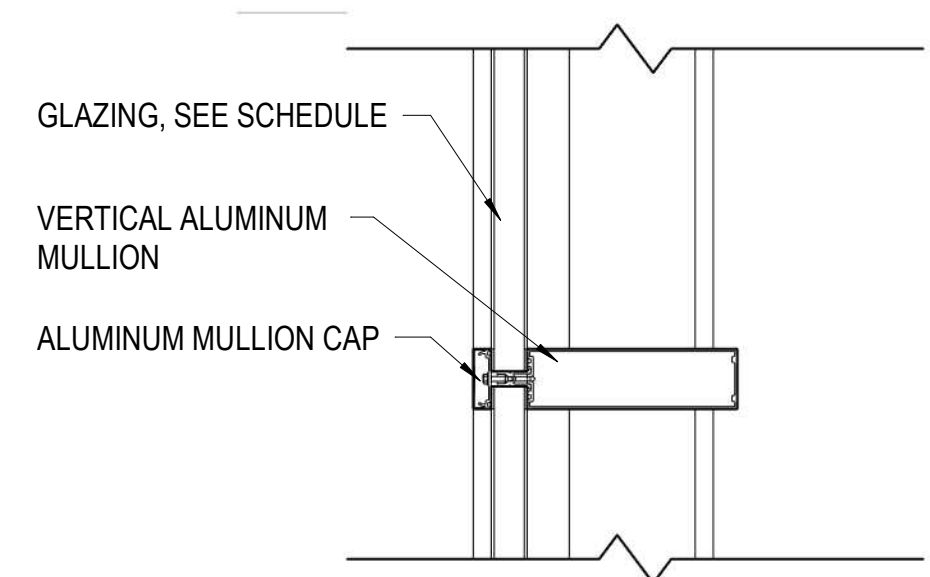
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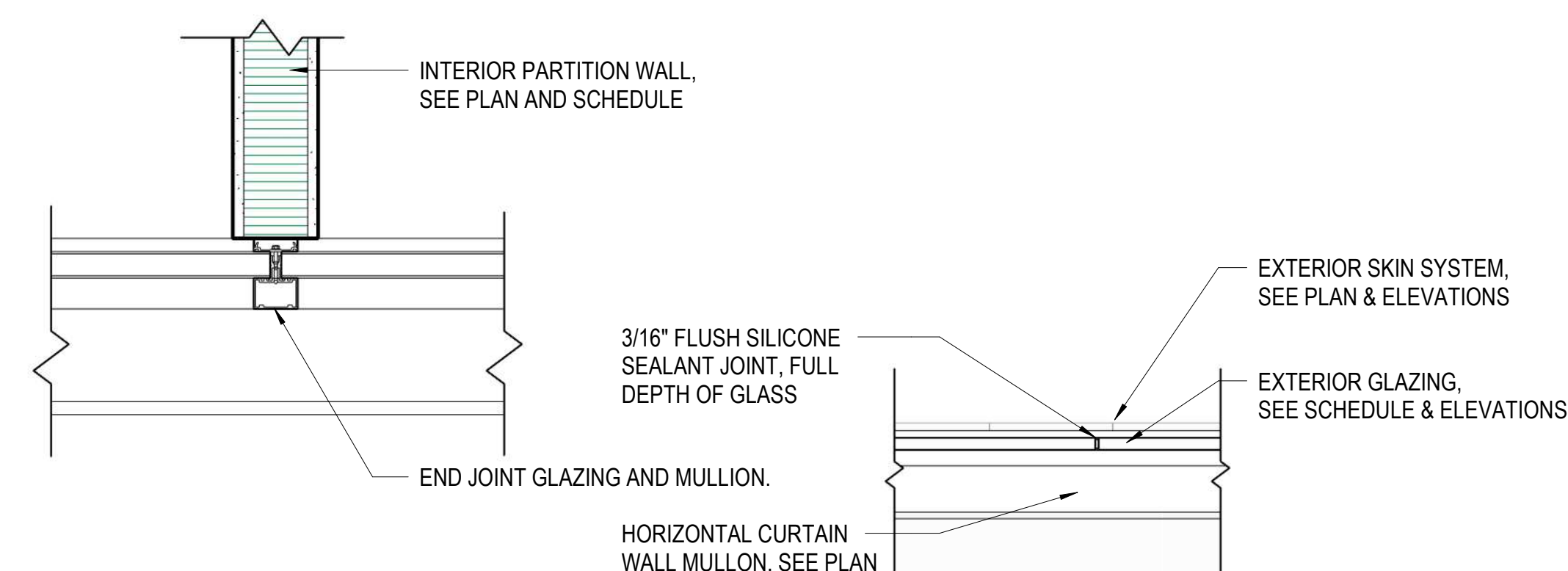
10 JAMB DETAIL
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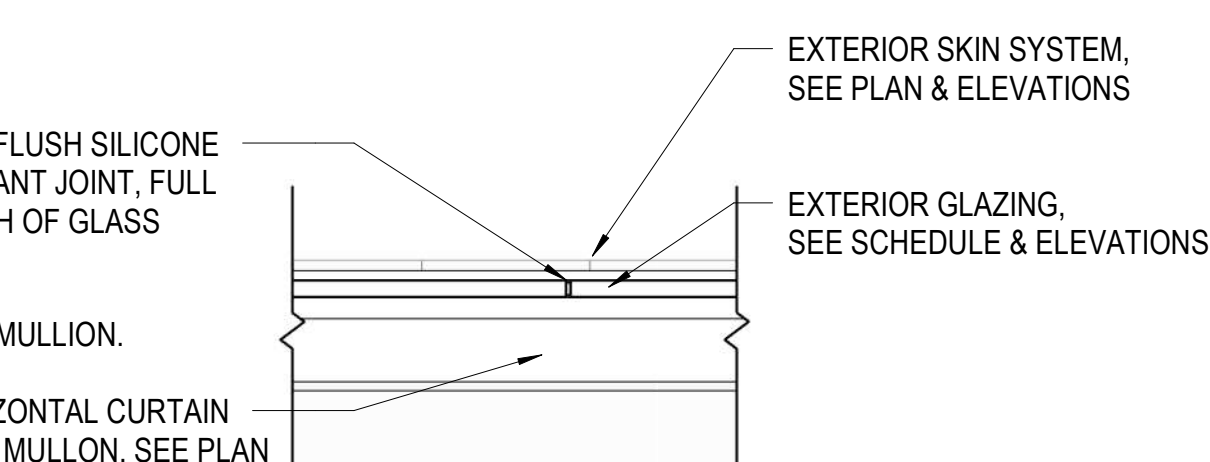
1 COLUMN WRAP DETAIL AT EXTERIOR
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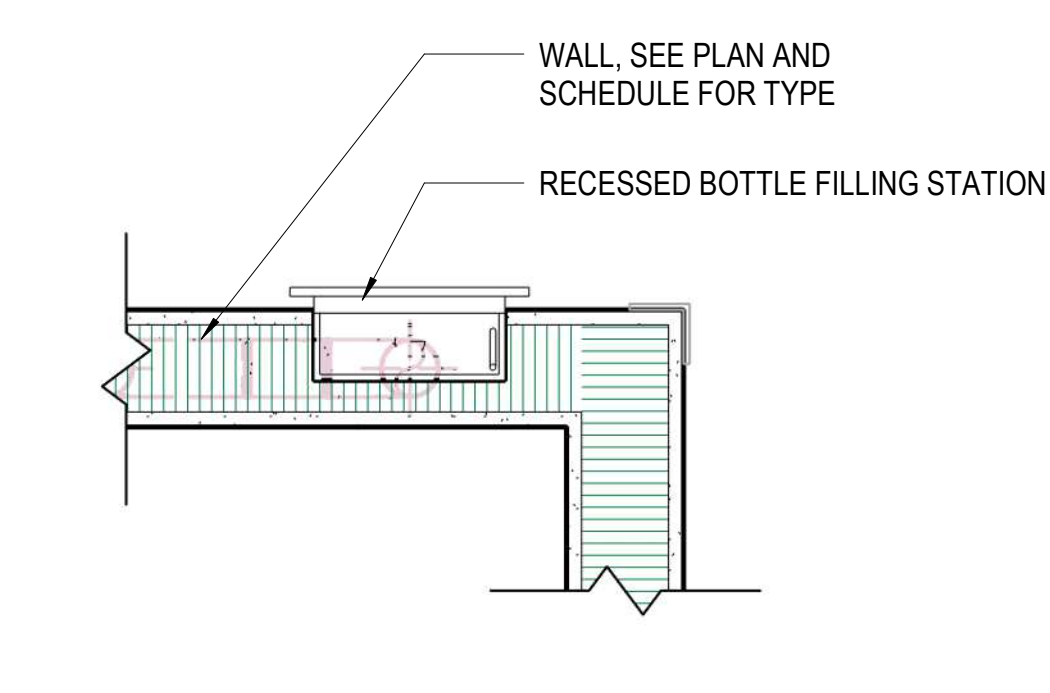
2 Detail 12
SCALE= 1 1/2" = 1'-0"



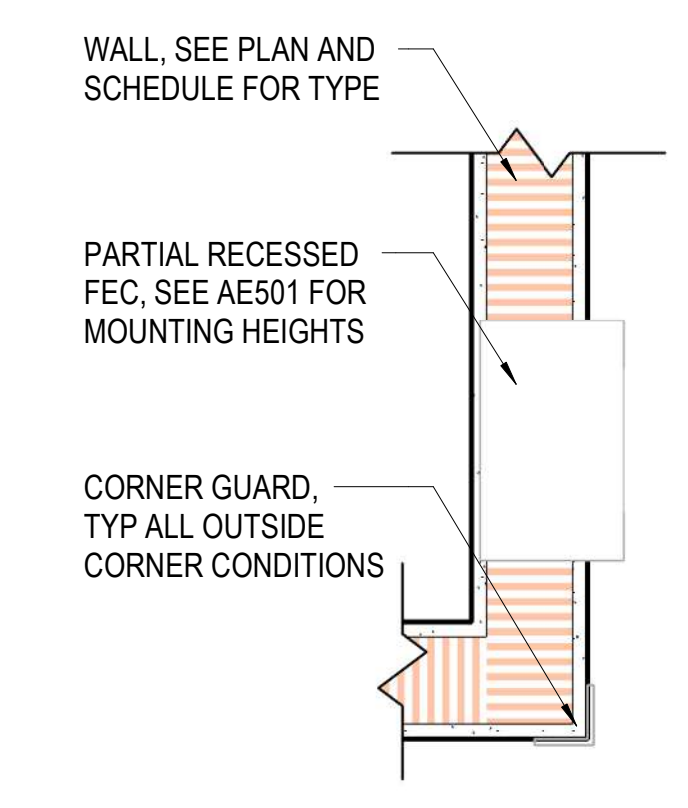
3 Detail 13
SCALE= 1 1/2" = 1'-0"



4 GLAZED CURTAINWALL JOINT
SCALE= 3/4" = 1'-0"



5 BOTTLE FILLING STATION
SCALE= 1 1/2" = 1'-0"



6 FIRE EXTINGUISHING CABINET
SCALE= 1 1/2" = 1'-0"

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
PLAN DETAILS

A560

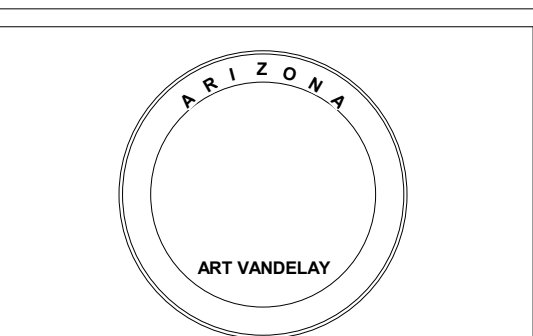
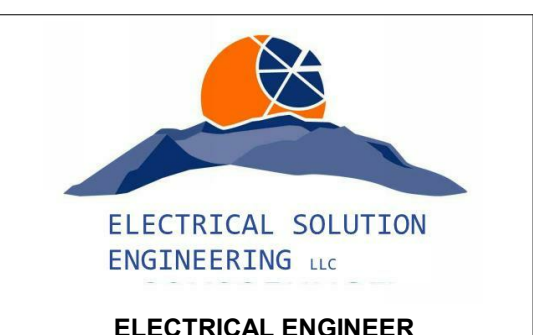
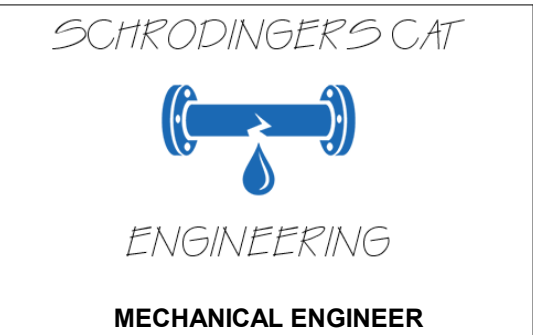
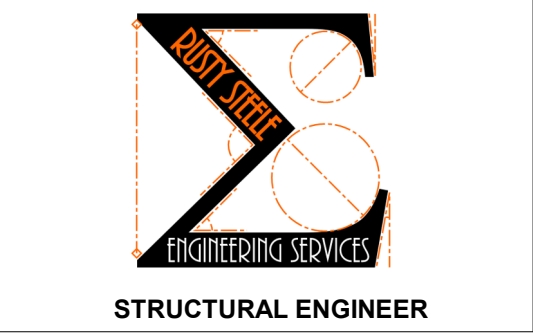
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DOOR TYPE SCHEDULE

DOOR #	DOOR				FRAME					REMARKS	DOOR #			
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	DEPTH	MATERIAL	JAMB DETAIL			HEAD DETAIL	SILL DETAIL	FIRE RATING (IN MIN.)
Level 1														
100A	C	6'-0"	7'-0"	1 3/4"	Hollow-Metal & Glass	II						0		100A
100B	A	6'-0"	7'-8 3/4"		Glass	IV						30 Min		100B
102	E	0"	0"		None	III						0		102
103	K	3'-6"	7'-2"	2"	Insulated Metal	III						30 Min		103
104	B	3'-2"	7'-0"		Glass	IV						30 Min		104
105	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		105
106	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		106
107	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		107
108	B	3'-2"	7'-0"		Glass	IV						30 Min		108
110A	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		110A
110B	F	1'-6"	6'-0"	1 3/4"	Solid Wood	I						60 Min		110B
111	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		111
112A	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		112A
112B	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		112B
113	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		113
117	E	0"	0"		None	III						0		117
118	B	3'-2"	7'-0"		Glass	IV						30 Min		118
120	B	3'-2"	7'-0"		Glass	IV						30 Min		120
121	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		121
122	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		122
123	B	3'-2"	7'-0"		Glass	IV						30 Min		123
124	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		124
125	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		125
126	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		126
131A	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		131A
131B	H	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						30 Min		131B
131C	D	3'-0"	7'-0"	1 3/4"	Hollow-Metal & Glass	I						0		131C
133	B	3'-2"	7'-0"		Glass	IV						30 Min		133
134	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		134
135	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		135
141	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		141
Level 2														
202	E	0"	0"		None	III						0		202
203	K	3'-6"	7'-2"	2"	Insulated Metal	III						30 Min		203
205	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		205
206	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		206
207	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		207
208	B	3'-2"	7'-0"		Glass	IV						30 Min		208
210	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		210
210A	F	1'-6"	6'-0"	1 3/4"	Solid Wood	I						60 Min		210A
211	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		211
212	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		212
216	E	0"	0"		None	III						0		216
217	B	3'-2"	7'-0"		Glass	IV						30 Min		217
218	B	3'-2"	7'-0"		Glass	IV						30 Min		218
219	B	3'-2"	7'-0"		Glass	IV						30 Min		219
220	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		220
222	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		222
223	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		223
224	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		224
229	H	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						30 Min		229
229A	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		229A
230	B	3'-2"	7'-0"		Glass	IV						30 Min		230
231A	B	3'-0"	7'-0"		Glass	IV						30 Min		231A
231B	G	2'-6"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		231B
232	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		232
233	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		233
234	E	0"	0"		None	III						0		234
235	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		235
236	E	0"	0"		None	III						0		236
244	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		244
Level 3														
302	E	0"	0"		None	III						0		302
303	K	3'-6"	7'-2"	2"	Insulated Metal	III						30 Min		303
305	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		305
306	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		306
307	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		307
308	B	3'-2"	7'-0"		Glass	IV						30 Min		308
310A	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		310A
310B	F	1'-6"	6'-0"	1 3/4"	Solid Wood	I						60 Min		310B
311	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		311
312	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		312
316	E	0"	0"		None	III						0		316
317	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		317
318	B	3'-2"	7'-0"		Glass	IV						30 Min		318
319	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		319
320	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		320
321	B	3'-2"	7'-0"		Glass	IV						30 Min		321
322	B	3'-2"	7'-0"		Glass	IV						30 Min		322
323	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		323
325A	F	1'-4"	6'-0"	1 1/4"	Solid Wood	I						60 Min		325A
325B	F	1'-4"	6'-0"	1 1/4"	Solid Wood	I						60 Min		325B
326A	J	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						60 Min		326A
326B	H	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	II						30 Min		326B
327	B	3'-2"	7'-0"		Glass	IV						30 Min		327
328	B	3'-2"	7'-0"		Glass	IV						30 Min		328
329	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		329
330	G	3'-0"	7'-0"	1 3/4"	Solid Wood & Glass	I						30 Min		330
331	F	3'-0"	7'-0"	1 3/4"	Solid Wood	I						60 Min		331
333	F	1'-4"	6'-0"	1 1/4"	Solid Wood	I						60 Min		333
334	F	1'-4"	6'-0"	1 1/4"	Solid Wood	I						60 Min		334
Penthouse														
401	F	2'-6"	6'-8"	1 3/4"	Insulated Metal	I						60 Min		401
402	F	3'-6"	7'-0"	1 3/4"	Insulated Metal	I						60 Min		402
Grand total: 91														

PARTITION TYPE SCHEDULE

TAG	DESCRIPTION	CONSTRUCTION		LIMITING HEIGHT	HEAD DETAIL	BASE DETAIL	FIRE RATING	ACOUSTICAL	
		WIDTH	TERMINATION					SOUND BATT	STC
2A2	Acoustical - 2.625 stud - Gyp both sides	2 1/2"	ABOVE CEILING	6'-0"			0		
3A1	Acoustical - 3.625 stud - Gyp one side	4 1/4"	ABOVE CEILING	11'-0"			0	Yes	45
3A2	Acoustical - 3.625 stud - Gyp both sides	4 7/8"	ABOVE CEILING	11'-0"			0	Yes	45
3F1-1	1 hr rated - 3.625 stud - Gyp one side	4 1/4"	TO DECK	16'-0"			1	No	
3F1-2	2 hr rated - 3.625 stud - Gyp one side	4 7/8"	TO DECK	16'-0"			2	No	
3F2-1	1 hr rated - 3.625 stud - Gyp both sides	4 7/8"	TO DECK	16'-0"			1	Yes	
3F2-2	2 hr rated - 3.625 stud - Gyp both sides	6 1/8"	TO DECK	16'-0"			2	Yes	
3S1	Smoke - 3.625 stud - Gyp one side	4 1/4"	TO DECK	16'-0"			0	No	
3S2	Smoke - 3.625 stud - Gyp both sides	4 7/8"	TO DECK	16'-0"			0	Yes	
4G	Interior Glazing		INFILL	7'-0"			0	No	
6A1	Acoustical - 6 stud - Gyp one side	6 5/8"	ABOVE CEILING	11'-0"			0	Yes	60
6A2	Acoustical - 6 stud - Gyp both sides	7 1/4"	ABOVE CEILING	11'-0"			0	Yes	60
6F1-1	1 hr rated - 6 stud - gyp one side	6 5/8"	TO DECK	16'-0"			1	No	
6F1-2	2 hr rated - 6 stud - gyp one side	7 1/4"	TO DECK	16'-0"			2	No	
6F2-1	1 hr rated - 6 stud - gyp both sides	7 1/4"	TO DECK	16'-0"			1	Yes	
6F2-2	2 hr rated - 6 stud - gyp both sides	8 1/2"	TO DECK	16'-0"			2</		



GENERAL

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES ALL ITEMS THAT ARE TO BE INTEGRATED INTO THE STRUCTURAL SYSTEM. ORDER OF CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR. HE SHALL PROVIDE ALL ITEMS NECESSARY FOR HIS CHOSEN PROCEDURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS OF OSHA, CHAPTER 33 OF THE IBC 2012, AND LOCAL ORDINANCES AND CODES. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISH STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION, NOR AS APPROVAL OF CONSTRUCTION.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
- ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
- LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPTS AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSION, ETC.
- ANY DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER & SHALL BE SO DOCUMENTED. THIS DOCUMENTATION SHALL BECOME PART OF THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONTRACT DOCUMENTS SHALL NOT BE ALLOWED ON SHOP DRAWINGS, WITHOUT A SPECIFIC STATEMENT IN THE FORM OF A COVER LETTER DESCRIBING THE PROPOSED DEVIATION & REQUESTING APPROVAL. THE CONTRACTOR SHALL REVIEW & VERIFY ALL SHOP DRAWINGS TO ASSURE THEY COMPLY W/ REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE ENGINEER WILL REVIEW THE SHOP DRAWINGS FOR GENERAL CONFORMANCE W/ DESIGN CONCEPT. THIS REVIEW BY THE ENGINEER SHALL NOT BE CONSTRUED AS APPROVAL.
- SUBMIT SHOP DRAWINGS IN THE FORM OF FOUR SETS OF PRINTS AND ONE SET OF REPRODUCIBLE DRAWINGS TO BE USED AS SHOP DRAWINGS. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
 - CONCRETE MIX DESIGN(S)
 - REINFORCING STEEL SHOP DRAWINGS.
 - STRUCTURAL STEEL SHOP DRAWINGS.
 - STEEL JOIST/GIRDER SHOP DRAWINGS.
 - METAL DECKING SHOP DRAWINGS.
 OTHER SUBMITTALS MAY BE REQUIRED PER THE "SPECIAL INSPECTION" NOTES CONTAINED HEREIN.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDI

EARTHWORK

- CONSULT THE PROJECT SPECIFICATIONS AND / OR THE SOILS REPORT FOR EARTHWORK REQUIREMENTS.
- STRIP THE TOP 12" TO 18" OF TOP SOIL AND REMOVE ANY AND ALL UNSUITABLE FILL, DEBRIS AND VEGETATION. ANY UNSUITABLE SOILS SHALL BE STRIPPED DOWN TO NATURAL UNDISTURBED SOILS AND REPLACED WITH STRUCTURAL FILL AS REQUIRED.
- ALL EXISTING FOUNDATIONS SHALL BE REMOVED.
- ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- STRUCTURAL FILL SHALL BE WELL GRADED GRANULAR MATERIAL WITH A MAXIMUM SIZE LESS THAN 4" AND WITH NOT MORE THAN 10% PASSING NO. 200 SIEVE. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM LABORATORY DENSITY AS DETERMINED BY ASTM D 1557. THE CONTRACTOR SHALL HAVE ALL FILL TESTED.
- ALL INTERIOR CONCRETE SLABS-ON-GRADE SHALL BE UNDERLAIN WITH 4" OF FREE DRAINING GRANULAR FILL.

FOUNDATIONS

- ALL FOOTING SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR ON COMPACTED STRUCTURAL FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OF ____ psf. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
- ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 1,500 psf. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/ TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
- TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.
- THE BOTTOM OF ANY FOOTINGS EXPOSED TO THE FREEZE THAW CYCLE SHALL BE PLACED A MINIMUM OF 30 INCHES BELOW GRADE FOR FROST PROTECTION.
- FOUNDATION DESIGN PRESSURES ARE AS FOLLOWS:
 - ACTIVE PRESSURE 55 psf (retaining walls)
 - AT REST PRESSURE 75 psf (rigid foundations)
 - PASSIVE PRESSURE 300 psf
 - COEFFICIENT OF FRICTION 0.35
- NO UNBALANCED BACK FILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
- PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO VOID UTILITIES.
- ALL RETAINING WALLS SHALL HAVE AT LEAST 12 INCHES OF FREE DRAINING GRANULAR BACK FILL. FULL HEIGHT OF WALL ON SOIL SIDE OF WALL. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED.

EPOXY

- USE SIMPSON SET-XP EPOXY ANCHORING SYSTEMS FOR ANY EPOXY ANCHORING INTO CONCRETE, U.N.O OR PLANS OR IN DETAILS. USE SIMPSON SET EPOXY ANCHOR SYSTEM FOR ANY EPOXY ANCHORING INTO MASONRY.
- HOLES SHALL BE DRILLED TO THE REQUIRED DEPTHS LISTED IN THE EPOXY ANCHOR SCHEDULE USING ROTARY HAMMER DRILLS AND CARBIDE-TIPPED DRILL BITS, COMPLYING W/ ANSI B212.15-1994. THE BIT DIAMETERS MUST COMPLY WITH THOSE LISTED ON SHEET S301.
- USE MINIMUM GRADE A307 GRADED THREADED ANCHORS U.N.O., AND ALL ROD THREADS MUST COMPLY W/ ANSI B1.1-74.
- THE MINIMUM BASE MATERIAL INSTALLATION TEMPERATURE FOR THESE SYSTEMS IS 40° FAHRENHEIT.
- AFTER DRILLING, ALL HOLES MUST BE CLEANED FROM THE BOTTOM W/ FORCED AIR. A WIRE BRUSH SHALL THEN BE USED TO CLEAN DUST AND SLURRY FROM THE HOLE. FOLLOW THIS BY ANOTHER CLEANING W/ FORCED AIR, ENSURING THAT THERE ARE NO LOOSE DEBRIS NOR MATERIALS IN THE HOLE.
- ADHESIVE SHALL THEN BE PUMPED INTO THE HOLE AND ANCHORS OR BARS INSTALLED, PER MANUFACTURER'S SPECIFICATIONS. ANCHORS OR BARS SHALL BE INSERTED BY ROTATING A MINIMUM OF TWO TURNS TO EVENLY DISTRIBUTE EPOXY.
- CURE TIMES SHALL BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO RESPECTIVE IBC EVALUATION REPORTS.
- PER ICB0 REQUIREMENTS, CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ALL ADHESIVE ANCHOR INSTALLATIONS. THE SPECIAL INSPECTOR SHALL RECORD AND SUBMIT COMPLIANCE OF THE FOLLOWING:
 - DRILL BIT TYPE AND SIZE, PER ANSI B212.15-1994
 - HOLE DEPTH AND CLEANLINESS
 - PRODUCT DESCRIPTION, INCLUDING PRODUCT NAME, ROD DIAMETER, AND LENGTH
 - ADHESIVE EXPIRATION DATE
 - VERIFICATION OF ANCHOR INSTALLATION PER THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- THESE CONDITIONS ONLY APPLY WHEN ANCHORS OR BARS ARE INSTALLED IN NORMAL-WEIGHT CONCRETE OR GROUT- FILLED CONCRETE MASONRY WALLS.
- MINIMUM EDGE, END, AND SPACING DISTANCES PER MANUFACTURER'S RECOMMENDATIONS, AND SER'S DETAILS.

CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 19, ACI 318 & ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE".
- CONCRETE SHALL HAVE THE FOLLOWING MATERIALS UNLESS NOTED OTHERWISE:
 - CEMENT: CEMENT SHALL CONFORM TO "SPECIFICATION FOR PORTLAND CEMENT", (ASTM C150). CEMENT SHALL BE TYPE ONE UNLESS EXPOSED TO SULFATES. WHERE CEMENT IS EXPOSED TO SULFATES, CEMENT SHALL MEET THE REQUIREMENTS OF ACI 318 SECTION 4.3.
 - NORMAL WEIGHT AGGREGATE ASTM C-33
 - LIGHTWEIGHT AGGREGATE ASTM C-330.
 - REINFORCING STEEL ASTM A-615.
 - GRADE 60 Fy = 60 ksi.
 - GRADE 40 Fy = 40 ksi. (field bent dowels with spacings reduced by 1/3)
 - WELDED WIRE FABRIC (W/F) ASTM A-185.
 - DEFORMED BAR ANCHORS (DBA) ASTM A-496.
 - HEADED STUD ANCHORS (HAS) ASTM A-108.
- ANCHOR BOLTS:
 - GRAVITY BOLTS ASTM A-307.
 - HEAVY HEX NUTS & WASHERS ASTM A-563.
- ADMIXTURES:
 - AIR ENTRAINMENT ASTM C-260 (provide as specified in ACI 318 SECTION 4.2)
 - CALCIUM CHLORIDE NOT PERMITTED
 - ALUMINUM PRODUCTS NOT PERMITTED
- CONCRETE SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTHS:

CONCRETE	MINIMUM Fc (28 DAYS)	SLUMP	W/C RATIO
COLUMNS	4000 psi	3" TO 5"	0.46
ELEVATED SLABS	3500 psi	3" TO 5"	0.46
FOUNDATIONS	3000 psi	3" TO 5"	0.50
SLAB-ON-GRADE	3500 psi	3" TO 5"	0.50
CONCRETE NOT NOTED	3000 psi	3" TO 5"	0.50

 SLUMP: CONCRETE w/o ADMIXTURES SHALL HAVE A MAXIMUM SLUMP OF 4".
- AT THE CONTRACTOR'S OPTION, AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE FLOWABLE CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 6 INCHES. THE CONTRACTOR SHALL SUBMIT TEST RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURER'S TECHNICAL DATA FOR APPROVAL PRIOR TO POURING CONCRETE.
- CONCRETE SHALL BE PROPORTIONED, TESTED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 CHAPTER 5.
- HOT WEATHER CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318 5.13 & ACI 305. COLD WEATHER CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318 5.12 & ACI 306.
- WELDING OF REINFORCING BARS IS NOT PERMITTED. REBAR SHALL NOT BE SUBSTITUTED FOR ANY OTHER TYPE OF REINFORCEMENT. SUBSTITUTION OF REINFORCING BARS OF ANY KIND SHALL BE AT THE ENGINEER OF RECORD'S WRITTEN CONSENT.
- ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE. EXCEPT THAT VERTICAL DOWELS FOR MASONRY WALL REINFORCING MAY BE "FLOATED" IN PLACE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER OF RECORD.
- REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT.) SHALL BE LAPPED WITH A TYPE 2 LAP SPLICE UNLESS OTHERWISE NOTED. ALL WELDED WIRE FABRIC SHALL LAP AT LEAST ONE FULL MESH.
- UNLESS NOTED OTHERWISE, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 THROUGH #18 BARS 3"
 - #1, #2, #3 BAR, W31 OR D31 WIRE & SMALLER 2"
 - CONCRETE NOT EXPOSED TO THE EARTH OR WEATHER:
 - WALLS, ELEVATED SLABS (JOISTS) 3/4"
 - BEAMS AND COLUMNS 1 1/2"
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH. 3"
- BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR STAINLESS STEEL.
- UNLESS OTHERWISE APPROVED, ALL WELDED WIRE FABRIC SHALL BE BLOCKED INTO THE POSITION INDICATED WITH PRECAST CONCRETE BLOCKS HAVING A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB.
- FORM WORK SHALL COMPLY WITH THE REQUIREMENTS OF ACI STANDARD PUBLICATION #947 AND SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 80% OF ITS 28-DAY COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAIL PLACEMENT AND REMOVAL OF ALL FORM WORK, SHORING AND RE-SHORING.
- SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED AS SPECIFIED ABOVE.
- CONSTRUCTION AND CONTROL JOINTS SHALL BE INSTALLED IN THE SLABS ON GRADE SO THAT THE LENGTH TO WIDTH RATIOS IS NOT MORE THAN 1.25 TO 1. CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS OF THE PLACEMENT OF THE CONCRETE. CONTROL JOINTS SHALL BE CUT INTO THE SLABS OR TOOLED IN THE SLABS A DEPTH OF 1/4 THE DEPTH OF THE SLAB. INSTALL JOINTS IN THE SLABS ON GRADE AT A SPACING NOT TO EXCEED 30 TIMES THE SLAB THICKNESS OF THE SLAB IN ANY DIRECTION UNLESS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS. CONSTRUCTION JOINTS SHALL BE LIMITED TO A SPACING OF NOT MORE THAN 125'-0" IN ANY DIRECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT AND LOCATION OF ANY AND ALL EMBED ITEMS INCLUDING PLATES, BOLTS, AND OTHER INSERTS SPECIFIED IN THE DRAWINGS. REINFORCING STEEL FOR PRECAST CONCRETE PANELS SHOWN ON THE DRAWINGS ARE FOR THE GRAVITY, SEISMIC AND WIND LOADS ONLY. LIFTING PROCEDURES OF ALL PRECAST PANELS SHALL BE THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL SUBMIT A COPY OF THE DESIGN CALCULATIONS AND SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR ALL PRECAST CONCRETE REINFORCEMENT AND LIFTING HARDWARE ASSOCIATED WITH HIS CHOSEN INSTALLATION PROCEDURE.
- HORIZONTAL WALL REINFORCING BARS SHALL TERMINATE IN A 90-DEGREE STANDARD HOOK WITH A 6 BAR DIAMETER LENGTH EXTENSION. AT INTERSECTING WALLS, PROVIDE CORNER BARS OF THE SAME BAR SIZE AND SPACING AS THE HORIZONTAL WALL REINFORCEMENT.
- VERTICAL WALL REINFORCING BARS SHALL HAVE MATCHING DOWELS THAT CONSIST OF A 90 DEGREE HOOK EMBEDDED WITHIN 4" OF THE BOTTOM OF THE FOOTING. THE DOWEL SHALL EXTEND 20" INTO THE FOOTING.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL HAVE THE FOLLOWING MATERIALS UNLESS NOTED OTHERWISE.

WIDE FLANGE SECTIONS	ASTM A992 (50 ksi)
OTHER ROLLED SHAPES AND PLATES	ASTM A36
STRUCTURAL STEEL TUBES	ASTM A500 GRADE B (48 ksi)
STRUCTURAL STEEL PIPES	ASTM A53, TYPE E or S GRADE B
HEADED STUD ANCHORS (HAS)	ASTM A307 WITH ASTM A563 HEAVY HEX
DEFORMED BAR ANCHORS (DBA)	ASTM A496
BOLTED CONNECTIONS	ASTM A325
THREADED ROD ANCHOR BOLTS	ASTM A307
NUTS	ASTM A307
WASHERS	ASTM A563 (heavy hex) GRADE A (hardened)
- THE FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL STEEL SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES:
 - IBC 2006 SECTION 2205
 - AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS. AISC CODE OF STANDARD PRACTICE EXCLUDING SECTIONS 3.4, 4.4, AND 4.4.1.
 - AISC SPECIFICATIONS FOR STRUCTURAL JOINTS.
 - AWS WELDING CODE.
 - AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. ALL SHOP FABRICATION BE BY AISC-APPROVED FABRICATORS.
- ALL STRUCTURAL WELDING SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:

WELDING RODS	E-70 XX (BOTH CONNECTING ELEMENTS ARE GREATER THEN 36 KSI) E-80 XX (ONE OR BOTH CONNECTING ELEMENTS ARE LESS THEN OR EQUAL TO 36 KSI.)
WELDING WELDER	AWS D11 (performed by AWS certified welder)
STRUCTURAL CUTTING	AW5 CERTIFIED WELDER
HSAs/DBAs	MANUFACTURERS SPECIFICATIONS
REINFORCING BARS (REBAR) ANCHOR BOLTS	DO NOT WELD REBAR. DO NOT WELD ANCHOR BOLTS (including tack welds)
- STEEL FABRICATOR AND ERECTOR SHALL BOTH PREPARE A WELDING PROCEDURE SPECIFICATION (WPS) PER AWS D11. THE WPS SHALL BE AVAILABLE FOR THE INSPECTOR AND ENGINEER AT THE FABRICATION SHOP AND THE JOB SITE.
 - ANY SUBSTITUTION OF ANY MEMBERS SHALL BE AT THE WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
 - BY SUBTRACTING 1/16" LESS THAN THE THINNESS CONNECTING MEMBER WITH A MINIMUM OF A 3/16" FILLET WELD. ALL WELDS SHALL BE FULL SURFACE WELDS. WHEN IN DOUBT CONTACT THE ENGINEER.
 - SPECIAL PROVISIONS FOR FULL PENETRATION WELDS USED IN MOMENT FRAMES (SEISMIC CRITICAL WELDS). WELDING PROCEDURES, METHODS AND QUALITY CONTROL SHALL COMPLY WITH ANSI/AWS D1.198 AND THE FOLLOWING:
 - ALL WELDS MADE SHALL BE BASED ON A DOCUMENTED WELDING PROCEDURE SPECIFICATION (WPS) INDICATING PREHEAT/TEMPERATURE, ELECTRODE MANUFACTURER, WELDING PARAMETERS, PROCESS, WELDING POSITION, ETC.
 - EACH WPS PREPARED SHALL BE BASED ON A DOCUMENTED PROCEDURE QUALIFICATION RECORD (PQR).
 - ALL APPLICABLE WPS FORMS, COUPLED WITH THEIR QUALIFYING PQR REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW TWO WEEKS PRIOR TO WELDING. THE APPROVED WPS FORMS SHALL BE MADE READILY ACCESSIBLE TO ASSIGNED WELDERS AND INSPECTORS.
 - PROCEDURE QUALIFICATION SHALL CONFORM TO AWS D1.1 TABLE 4.1 AND EMPLOY THE FOLLOWING TESTING METHODS:
 - VISUAL INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4.8.1.
 - RADIOGRAPHIC TESTING BEFORE PREPARING MECHANICAL TEST SPECIMEN SHALL BE IN ACCORDANCE WITH SECTION 4.8.2.
 - MECHANICAL TESTING SHALL BE PER SECTION 4.8.1. TYPE AND NUMBER OF TEST SPECIMENS REQUIRED FOR EACH QUALIFIED PRODUCTION WELDING POSITION SHALL BE PER TABLE 4.2 (1), USING A GROOVE WELD TEST PLATE PER FIGURE 4.10.
 - CHARPY V-NOTCH TESTING SHALL BE PER SECTION 4.1.1.3. THE REQUIRED TEST TEMPERATURE AND ENERGY VALUE SHALL BE THAT SPECIFIED IN SECTION 7.2.3. THE TYPE AND NUMBER OF SPECIMENS SHALL BE PER ANNEX III, TABLE 1H.1.
 - TACK WELD QUALITY SHALL COMPLY WITH SECTION 5.18 GOUGES, ARC STRIKES AND OTHER IMPERFECTIONS LESS THAN 1/8" WITHIN OR ADJACENT TO THE JOINT. SHALL BE REPAIRED BY GRINDING TO A SMOOTH CONTOUR PER SECTION 5.15.4.4. GOUGES, CRACKS, GROOVES, NOTCHES, ETC. GREATER THAN 1/8" SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. UNREPAIRED GOUGES, CRACKS, GROOVES AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA.
 - WELDING REPAIRS OF MILL IMPERFECTIONS, GOUGES, NOTCHES, ETC. IS NOT PERMITTED IN THE REDUCED SECTION OF THE BEAM.
 - PREHEAT, AND INTERPASS REQUIREMENTS SHALL BE PER THE ELECTRODES MANUFACTURER SPECIFICATIONS OR AS OUTLINED IN SECTION 3.5. ALTERNATE PREHEAT GUIDELINES PER ANNEX XI ARE STRONGLY RECOMMENDED. INTERPASS TEMPERATURE SHALL NOT EXCEED 550 DEGREES FAHRENHEIT.
 - USE WELDING ELECTRODES WITH CHARPY CVN EQUAL TO OR GREATER THAN 20 FT-LBS AT MINUS 20 DEGREES FAHRENHEIT AND 70 KI TENSILE STRENGTH. ACCEPTABLE ELECTRODES INCLUDE, BUT NOT LIMITED TO E71T-8, E70T-K2, E71-T1 AND E70T-8(FCAW), E7018 (SMAW), AND F7A2-EXXX (SAW). ELECTRODES E70T-4 AND E70T-11 ARE NOT ALLOWED.
 - BACKER BARS AT THE TOP FLANGE CONNECTIONS TO THE COLUMNS NEED NOT BE REMOVED PROVIDED THAT THE BACKER BARS ARE 1/4" THICK OR LESS AND ARE WELDED TO THE COLUMN FLANGE WITH A CONTINUOUS FILLET WELD FOR THE ENTIRE LENGTH OF THE BACKER BAR.
 - BACKER BARS AT THE BOTTOM FLANGE CONNECTIONS TO THE COLUMNS SHALL BE REMOVED. THE ROOT OF THE WELD SHALL BE BACK GOUGED TO SOUND METAL, REMOVING ALL SLAG AND CRACKS. WELD THE BACK GOUGED REGION AND FINISH WELDING USING A 5/16" REINFORCING FILLET WELD.
 - USE WELD TABS AT BEAM FLANGE CONNECTIONS; REMOVE WELD TABS TO 1/8" OF THE CONNECTION, AFTER WELDING.
- ALL STRUCTURAL CONNECTIONS, SHOWN IN THE PLANS, SHALL BE BOLTED WITH A MINIMUM OF A 3/4" DIAMETER ASTM A325N BOLT, UNLESS NOTED OTHERWISE AND SHALL BE TIGHTENED TO A SNUG TIGHT FIT, AS DEFINED BY AISC SPECIFICATIONS.
- HARDENED WASHERS SHALL BE PROVIDED AT ALL TURNED ELEMENTS OF BOLTED CONNECTIONS. IF THE CONNECTION IS SLOPED OR SKewed THEN PROVIDE BEVELLED WASHERS AS REQUIRED. PROVIDE WASHERS THAT COMPLETELY COVER ANY OVERSIZED HOLES OR SLOTS ER ASTM F-436.
- TIGHTEN ALL SLIP-CRITICAL BOLTS, MOMENT FRAME BOLTS AND BOLTS INSTALLED IN OVERSIZED OR SLOTTED HOLES BY THE "TURN OF THE NUT" OR THE "DIRECT TENSION" METHOD. PROVIDE HARDENED WASHERS UNDER ALL TURNED ELEMENTS.
- WHERE ASTM A490 OR STRONGER BOLTS ARE SPECIFIED IN THE DRAWINGS, BOTH THE BOLT HEAD AND THE NUT SHALL HAVE A HARDENED WASHER BETWEEN IT AND THE BASE STEEL AND REQUIRED IN AISC SPECIFICATIONS.
- BOLTS MUST BE LONG ENOUGH FOR THREADS TO BE FLUSH WITH THE OUTSIDE FACE OF THE BOLT AFTER TIGHTENING. NO MORE THAN 5 THREADS OF "STICKOUT" ARE PERMITTED. THE "TURN OF THE NUT" METHOD IS DESCRIBED BELOW (THIS IS FOR PERPENDICULAR SURFACES ONLY).
 - THE TURN OF THE NUT METHOD IS NOT TO BE USED FOR BOLTS LONGER THEN 12 BOLT DIAMETERS. TIGHTEN ALL BOLTS IN THE CONNECTION TO THE SNUG, TIGHT CONDITION. FROM THE SNUG, TIGHT CONDITION; TIGHTEN EACH BOLT AS SPECIFIED BELOW:

BOLT LENGTH:	AMOUNT OF TURN APPLIED TO NUT.
UP TO AND INCLUDING 4 DIAMETERS	1/3 TURN OF THE NUT
OVER 4 DIAMETERS BUT NOT EXCEEDING 8 DIAMETERS	1/2 TURN OF THE NUT
OVER 8 DIAMETERS BUT NOT EXCEEDING 12 DIAMETERS	2/3 TURN OF THE NUT
- DO NOT REUSE BOLTS, NUTS OR WASHERS.
- FITTED STIFFENER PLATES SHALL BE PROVIDED AT ALL BEARING LOCATIONS AND SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE IN THE DRAWINGS.

FLANGE WIDTH	STIFFENER PLATE THICKNESS	FILLET WELD THICKNESS
UP TO 8"	3/8"	1/4"
9" TO 12"	3/8"	1/4"
12" TO 16"	1/2"	5/16"
16" AND BIGGER	5/8"	3/8"
- HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
- THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ANY REQUIRED TEMPORARY GUYING AND BRACING REQUIRED. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY.
- REFER TO THE "SPECIAL INSPECTION" SECTION OF THE GENERAL STRUCTURAL NOTES FOR ANY INSPECTION REQUIREMENTS.

COMPOSITE STEEL BEAMS

- ALL COMPOSITE BEAMS SHALL BE INDICATED ON THE PLANS. THE NOTATION THAT SEPARATES A COMPOSITE BEAM FROM A NON-COMPOSITE BEAM IS THE NUMBER IN THE PARENTHESES (). THIS NUMBER INDICATES THE NUMBER OF HEADED STUDS THAT ARE TO BE WELDED TO THE TOP FLANGE OF THE BEAM OR SEGMENT OF BEAM. THE SPACING OF THESE STUDS ON THE BEAM OR SEGMENT OF BEAM SHALL BE SPACED EQUALLY AND UNIFORMLY.
- ALL HEADED STUD CONNECTORS SHALL CONFORM TO ASTM A108. AND THEIR DIMENSIONS SHALL COMPLY WITH AISC. 3/4" DIAMETER STUDS SHALL BE USED. THE STUDS SHALL EXTEND 2" ABOVE THE TOP OF THE STEEL DECKING AFTER WELDED IN PLACE. HEADED STUDS SHALL BE WELDED DIRECTLY TO THE TOP FLANGE OF THE STEEL BEAM OR WELDED THROUGH THE METAL DECK TO THE STEEL BEAM AS REQUIRED.
- THE MAXIMUM CENTER TO CENTER SPACING SHALL NOT EXCEED 36". THE MINIMUM CENTER TO CENTER SPACING SHALL BE AS FOLLOWS:
 - ALONG THE LONGITUDINAL AXIS OF THE BEAM: 6 DIAMETERS
 - TRANSVERSE TO THE LONGITUDINAL AXIS OF THE BEAM: 4 DIAMETERS
- ALL COMPOSITE BEAMS SHALL BE PRE-CAMBERED. THE NOTATION FOR PRE-CAMBERING A BEAM IS c=0.00'. THE PRE-CAMBERING OF THE BEAM SHALL BE IN THE UPWARD DIRECTION.

OPEN WEB STEEL JOISTS AND GIRDERS

- ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH SJI STANDARD SPECIFICATIONS, LATEST EDITION. WELDING NOTES PER STRUCTURAL STEEL NOTES APPLY.
 - THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO THE FABRICATION OF THE JOISTS OR GIRDERS. ANY MODIFICATION, INCLUDING HOLES OR NOTCHES IN WEB AND FLANGE MEMBERS, SHALL BE DONE AT THE JOIST MANUFACTURERS DIRECTION.
 - JOIST GIRDER BOTTOM CHORD EXTENDED ENDS SHALL NOT BE WELDED TO THE STABILIZER PLATES UNLESS SPECIFICALLY CALLED FOR IN THE DETAILS, WHERE A WELD IS SPECIFIED IN THE DETAILS, WELD AFTER THE DEAD LOAD IS IN PLACE.
 - ALL JOISTS OR GIRDERS WITH SLOPES GREATER THAN 1/2" PER FOOT SHALL BE DESIGNED FOR THE ADDITIONAL AXIAL LOADS ALONG WITH THE LOADS SPECIFIED ON THE PLANS AS THOUGH THE JOISTS WERE A FLAT JOIST. WHERE JOISTS ARE SLOPING, BEARING ENDS SHALL BE FABRICATED WITH SPECIAL BEARING ENDS.
 - JOIST DEFLECTION SHALL BE LIMITED TO THE FOLLOWING DEFLECTIONS UNLESS NOTED OTHERWISE:
 - TOTAL LOAD L/240
 - LIVE LOAD L/90

STRUCTURAL SHEETS INDEX

Sheet Number	Sheet Name	Sheet Classification	Sheet Issue Date
S001	GENERAL STRUCTURAL NOTES	Notes	10/11/2016
S002	GENERAL STRUCTURAL NOTES	Notes	10/11/2016
SE101	FOOTINGS & FOUNDATION PLAN	Plans	10/11/2016
SE102	SECOND FLOOR - FRAMING PLAN	Plans	10/11/2016
SE103	THIRD FLOOR - FRAMING PLAN	Plans	10/11/2016
SE104	PENTHOUSE/ROOF - FRAMING PLAN	Plans	10/11/2016
SE201	FRAMING ELEVATIONS	Elevations	10/11/2016
SE202	FRAMING ELEVATIONS	Elevations	10/11/2016
SE203	HIGH ROOF FRAMING PLAN & ELEVATIONS	Elevations	10/11/2016
SE501	FOUNDATION DETAILS	Details	10/11/2016
SE511	FLOOR FRAMING DETAILS	Details	10/11/2016
SE521	ROOF FRAMING DETAILS	Details	10/11/2016
SE522	ROOF FRAMING DETAILS	Details	10/11/2016
SE601	STRUCTURAL SCHEDULES	Schedules	10/11/2016
SE602	GRAPHICAL COLUMN SCHEDULE	Schedules	10/11/2016

Revision Schedule

No.	Description	Date

COLD-FORMED STEEL FRAMING

- THE DESIGN, FABRICATION AND ERECTION OF ALL COLD-FORMED METAL FRAMING SHALL COMPLY WITH THE REQUIREMENTS OF AISC "MANUAL OF STEEL CONSTRUCTION," AWS "STRUCTURAL WELDING CODE," AND AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."
- LIGHT GAUGE STEEL FRAMING (LGSF)
 - FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR THE USE OF THESE PRODUCTS. ALL LGSF SHALL BE MANUFACTURED FROM GALVANIZED, G60 SHEET STEEL.
 - GALVANIZED STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A446 GRADE D (Fy = 53 ksi) FOR 12 GAUGE AND ASTM A446 GRADE A (Fy = 53 ksi) FOR 18 GAUGE AND LIGHTER. GALVANIZED COATINGS MUST MEET THE ASTM A525 SPECIFICATIONS.
- ALL INTERIOR NONBEARING STEEL STUD WALLS THAT EXTEND ABOVE THE CEILING LINE BUT DO NOT ATTACH TO THE STRUCTURE ABOVE SHALL BE BRACED WITH DIAGONAL METAL STUD BRACING (45 DEGREES). THE *br* RATIO OF THE BRACE SHALL NOT EXCEED 200 AND SHALL NOT BE SPACED FURTHER APART THAN 10' o.c. CONNECTION OF THE DIAGONAL BRACES TO THE TOP OF THE STEEL STUD WALLS AND TO THE TOP FLANGE OF THE STEEL BEAMS OR JOISTS WITH TWO (2) #10 TENSILE SCREWS MINIMUM. WHERE CONCRETE DECK OCCURS ABOVE, USE TWO (2) POWDER-DRIVEN FASTENERS PER DIAGONAL BRACE. OTHER METHODS SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD.
- ALL WELDING SHALL BE ACCOMPLISHED USING 1/8" AWS TYPE 8013 OR 7014 WELDING ROD WITH A WELDING HEAT OF 60 TO 110 AMPERES DEPENDING ON THE GAUGE OF THE MATERIAL BEING WELDED AND THE FIT OF THE PARTS.
- WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.

METAL DECKING

- ALL METAL DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE. WELDING NOTES PER STRUCTURAL STEEL NOTES APPLY.
- STEEL ROOF DECK SHALL NOT SUPPORT SUSPENDED CEILING, LIGHT FIXTURES, HVAC DUCTS, PLUMBING OR ANY OTHER ARCHITECTURAL ELEMENTS UNLESS SPECIFIED OTHERWISE.
- WHERE THE DECK IS TO RECEIVE SPRAYED ON FIRE PROOFING, THE SURFACE SHALL PREPARED PROPERLY SO THAT THE FIREPROOFING ADHERES TO THE PAINTED DECK.
- ALL DECK SUPPORTS SHALL BE DRY PRIOR TO WELDING DOWN THE DECK.
- PRIOR TO WELDING INTERLOCKING SEAMS OR BUTTON PUNCHING, STEEL DECK SHALL BE CRIMPED PER THE MANUFACTURERS SPECIFICATIONS.
- THE YIELD STRESS OF ANY 22 GAUGE STEEL DECK SHALL BE LIMITED TO A MAXIMUM OF 50 ksi.
- ALL DECK SHALL SPAN A MINIMUM OF 3 CONTINUOUS SPANS. WHERE THE 3-SPAN CONDITION CAN NOT BE MET, THE CONTRACTOR SHALL PROVIDE A HEAVIER GAUGE DECK SO AS TO PROVIDE AN EQUIVALENT LOADING TO THE 3-SPAN CONDITION SPECIFIED.
- STEEL FLOOR DECK
 - STEEL FLOOR DECK SHALL BE 2" DEEP, PHOSPHATIZED/PAINTED COMPOSITE TYPE "W" DECK WITH INTERLOCKING SIDE SEAMS WITH THE FOLLOWING PROPERTIES:

MINIMUM S (in ³ /ft) ²	18 GAUGE	20 GAUGE	22 GAUGE
MINIMUM I (in ⁴ /ft)	0.322	0.235	0.187
MINIMUM I (in ⁴ /ft)	0.302	0.216	0.175
 - GALVANIZE ALL STEEL DECK ABOVE OR BELOW MECHANICAL EQUIPMENT ROOMS WITH G60 GALVANIZING.
 - STEEL FLOOR DECK SHALL BE 1 1/2" DEEP, PHOSPHATIZED/PAINTED COMPOSITE TYPE "W" DECK WITH INTERLOCKING SIDE SEAMS WITH THE FOLLOWING PROPERTIES:

MINIMUM S (in ³ /ft) ²	18 GAUGE	20 GAUGE	22 GAUGE
MINIMUM I (in ⁴ /ft)	0.322	0.235	0.187
MINIMUM I (in ⁴ /ft)	0.302	0.216	0.175
 - GALVANIZE ALL STEEL DECK ABOVE OR BELOW MECHANICAL EQUIPMENT ROOMS WITH G60 GALVANIZING.
 - STEEL DECK WITH 3 1/2" THICK (6 1/2" OVERALL) LIGHT WEIGHT CONCRETE SLAB SHALL HAVE A MINIMUM DIAPHRAGM SHEAR CAPACITY OF ____ lbs/ft. FOR A ____ DECK SPAN.
 - WELD STEEL FLOOR DECK TO SUPPORTING FRAMING MEMBERS WITH A 3/4" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACING (CLOSER SPACINGS MAY BE USED TO DEVELOP MINIMUM SHEAR REQUIREMENTS):
 - 12" o.c. TO SUPPORTS PERPENDICULAR TO DECK CORRUGATIONS (4 WELDS PER 36" WIDE SHEET).
 - 8" o.c. TO ALL SUPPORTS PARALLEL TO DECK CORRUGATIONS.
 - ATTACH INTERLOCKING SEAMS WITH 3/8" DIAMETER BUTTON PUNCH AT 18" o.c. OR 1 1/2" TOP SEAM WELD AT 36" o.c. BETWEEN ADJACENT DECK PANELS. CLOSER SPACING MAY BE USED TO DEVELOP MINIMUM SHEAR REQUIREMENTS.
 - PROVIDE A MINIMUM OF 2 INCHES OF BEARING AT SUPPORTS.
 - BUTT ALL END SPLICES.
- STEEL ROOF DECK
 - STEEL FLOOR DECK SHALL BE 1 1/2" DEEP, 20 GAUGE MINIMUM PAINTED TYPE "B" WIDE RIB DECK WITH INTERLOCKING SIDE SEAMS WITH THE FOLLOWING PROPERTIES:

MINIMUM S (in ³ /ft) ²	18 GAUGE	20 GAUGE	22 GAUGE
MINIMUM I (in ⁴ /ft)	0.322	0.235	0.187
MINIMUM I (in ⁴ /ft)	0.296	0.213	0.172
 - ROOF DECK SHALL HAVE A MINIMUM DIAPHRAGM SHEAR CAPACITY OF ____ lbs/ft. FOR A ____ DECK SPAN.
 - WELD STEEL ROOF DECK TO SUPPORTING FRAMING MEMBERS WITH A 3/4" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACING (CLOSER SPACINGS MAY BE USED TO DEVELOP MINIMUM SHEAR REQUIREMENTS):
 - 8" o.c. TO ALL SUPPORTS PARALLEL TO DECK CORRUGATIONS.
 - ATTACH INTERLOCKING SEAMS WITH 1 1/2" LONG TOP SEAM WELD AT 12" o.c. BETWEEN ADJACENT DECK PANELS. CLOSER SPACING MAY BE USED TO DEVELOP MINIMUM SHEAR REQUIREMENTS.
 - PROVIDE A MINIMUM OF 2 INCHES OF BEARING AND LAP AT THE SPLICE POINTS.
 - THE CONTRACTOR MAY SUBMIT FOR APPROVAL, THE MANUFACTURERS CSO REPORT OF AN ALTERNATIVE METHOD OF DECK ATTACHMENT. THE ALTERNATE METHOD SHALL PROVIDE MINIMUM DECK DIAPHRAGM SHEAR VALUES EQUAL TO OR GREATER THAN THOSE NOTED ABOVE. THE ENGINEER OF RECORD SHALL APPROVE ANY ALTERNATE METHODS PRIOR TO SUBSTITUTION.

SPECIAL INSPECTION

- SPECIAL INSPECTION AND QUALITY ASSURANCE, AS REQUIRED BY SECTION 1704 OF THE IBC, SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER UNLESS WAIVED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE REQUIRED INSPECTIONS. ALL TESTING AND INSPECTION REPORTS SHALL BE SENT TO THE ENGINEER OF RECORD FOR REVIEW. ITEMS REQUIRING SPECIAL INSPECTION AND QUALITY ASSURANCE ARE:
 - SOILS PER IBC SECTION 1704.7 PERIODIC INSPECTION.
 - SHALLOW FOUNDATIONS: VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
 - VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND EXTEND TO PROPER BEARING MATERIAL.
 - PRIOR TO PLACING COMPACTED STRUCTURAL FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.
 - PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
 - CONTINUOUS INSPECTION.
 - VERIFY THE USE OF PROPER FILL MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
 - CONCRETE PLACEMENT PER IBC SECTION 1704.4
 - CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED.
 - CYLINDERS, SLUMP AND AIR-ENTRAIMENT TEST SHALL BE PERFORMED FOR EVERY 50 CUBIC YARDS OR EACH DAY'S PRODUCTION IF LESS THAN 50 CUBIC YARDS. TEST SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C172, C39, AND ACI 318: 5.6, 5.8.
 - A-BOLTS INSTALLED IN CONCRETE SECTION 1704.4
 - ALL A-BOLTS SHALL BE INSPECTED PRIOR TO AND DURING CONCRETE PLACEMENT.
 - CONCRETE REINFORCING STEEL PLACEMENT IBC SECTION 1704.4
 - REINFORCING SHALL BE INSPECTED PRIOR TO CONCRETE PLACEMENT. INSPECTION SHALL VERIFY REINFORCING MEETS CONTRACT PLANS, SPECIFICATIONS, AND SHOP DRAWINGS.
 - STEEL FABRICATION
 - SPECIAL INSPECTION PER 1704.2 ALL SECTIONS.
 - STRUCTURAL STEEL SEISMIC RESISTANCE.
 - SPECIAL INSPECTION AND THE QUALITY ASSURANCE PLAN FOR STRUCTURAL STEEL WHICH IS PART OF THE SEISMIC-FORCE RESISTING SYSTEM SHALL BE IN ACCORDANCE WITH AISI 34-05 APPENDIX Q.
 - STRUCTURAL WELDING IBC SECTION 1704.3
 - STRUCTURAL STEEL WELDING INSPECTION AND WELDING INSPECTOR QUALIFICATION SHALL BE IN ACCORDANCE WITH AWS D1.1.
 - COLD-FORMED STEEL WELDING INSPECTION AND WELDING INSPECTOR QUALIFICATIONS SHALL BE IN ACCORDANCE WITH AWS D1.3.
 - REINFORCING STEEL WELDING INSPECTION AND WELDING INSPECTOR QUALIFICATION SHALL BE IN ACCORDANCE WITH AWS D1.4 AND ACI 318.
 - STRUCTURAL STEEL BOLTED CONNECTIONS.
 - INSTALLATION OF HIGH STRENGTH BOLTS SHALL BE INSPECTED IN ACCORDANCE WITH AISI 360.
 - PERIODIC MONITORING OF JOINTS DESIGNED AS SNUG TIGHT CONNECTIONS.
 - PERIODIC MONITORING OF BOLT INSTALLATION FOR PRETENSIONING IS PERMITTED WHEN USING THE TURN OF THE NUT METHOD WITH MATCH MARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD OR THE TWIST OFF BOLT METHOD.
 - EPOXY ANCHORS IBC SECTION 1704.4
 - INSPECTOR SHALL ASCERTAIN EPOXY USED MATCHES PROJECT SPECIFICATIONS, HOLE SIZE AND DEPTH MATCH MANUFACTURERS REQUIREMENTS, AND HOLE IS PREPARED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLING EPOXY. ANCHORS IN CONCRETE SHALL MEET ACI 318 -08 APPENDIX D.
 - STRUCTURAL MASONRY SHALL HAVE LEVEL 1 SPECIAL INSPECTION PER IBC SECTION 1704.5.2
 - PERIODIC SPECIAL INSPECTION SHALL BE PERFORMED FOR:
 - PROPORTIONS OF SITE-PREPARED MORTAR
 - CONSTRUCTION OF MORTAR JOINTS
 - LOCATION OF REINFORCEMENT AND CONNECTORS
 - SIZE AND LOCATION OF STRUCTURAL ELEMENTS
 - TYPE, SIZE AND LOCATION AND PLACEMENT OF ANCHORS
 - SIZE, GRADE, TYPE AND PLACEMENT OF REINFORCEMENT
 - VERIFY GROUT SPACE IS CLEAN PRIOR TO GROUTING
 - PROPORTIONS OF SITE PREPARED GROUT
 - PROTECTION OF MASONRY DURING COLD AND HOT WEATHER
 - CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR GROUT PLACEMENT AND PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND PRISMS, WELDING OF REINFORCING.
 - QUALITY ASSURANCE SHALL BE ACCORDING TO LEVEL 2 QUALITY ASSURANCE AS NOTED IN TABLE 1.1.4.2 OF ACI 530/ASCE 5/TMS 402.
 - PRIOR TO CONSTRUCTION, A LETTER OF STRENGTH CERTIFICATION FROM THE SUPPLIERS OF THE MASONRY UNITS AND GROUT SHALL BE SUBMITTED.
 - DURING CONSTRUCTION, THE GROUT AND MORTAR SHALL BE TESTED FOR EVERY 5,000 SQUARE FEET OF MASONRY CONSTRUCTED.
 - THE CONTRACTOR HAS THE OPTION OF USING THE "MASONRY PRISM TEST METHOD" PER IBC SECTION 2105.2.2.2 IN LIEU OF THE "UNIT STRENGTH METHOD."
- PREFABRICATED METAL PLATE WOOD TRUSSES PER IBC SECTION 1704.2 AND 1704.6.
- STRUCTURAL WOOD SHEAR WALLS & DIAPHRAGMS IBC SECTION 1704.6, 1706.2 & 1707.3.
- SEISMIC DESIGN REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS:
 - SEISMIC CERTIFICATION IN ACCORDANCE WITH IBC SECTION 1708.4 SHALL BE PROVIDED FOR:
 - FIRE SPRINKLER SYSTEM
 - MECHANICAL OR ELECTRICAL COMPONENTS AND CONDUIT, DUCTWORK, AND PIPING W/ RIGID ATTACHMENTS.
 - MECHANICAL OR ELECTRICAL COMPONENTS MOUNTED GREATER THEN 4 FT ABOVE THE FLOOR OR ROOF LEVELS AND WEIGHING MORE THEN 400 LBS.

DESIGN LOADS & CRITERIA		IBC 2009 ASCE 7-05	
DESIGN CODES	BUILDING CODE		
	REINFORCED CONCRETE	ACI 318-08	
	REINFORCED MASONRY	ACI 308-08	
	STRUCTURAL STEEL	AISC 13 th EDITION	
	STEEL JOIST AND GIRDER	SJI	
	STEEL DECK	SDI	
	COLD FORMED STEEL FRAMING	AISI 2007	
	WOOD FRAMING	NDS 2005	
	OPEN WEB WOOD TRUSSES	TPI	
SEISMIC	OCCUPANCY CATEGORY (ASCE 7-05 TABLE 1-1)	III	
	SEISMIC IMPORTANCE FACTOR (ASCE 7-05 TABLE 11.5-1)	I _p = 1.25	
	COMPACTED SPECTRAL RESPONSE ACCELERATION:		
	LIMIT MAX S _v TO 1.5 PER ASCE 7-05 12.8.1.3	S _v = 0.314	
		S _w = 0.097	
	SITE CLASS (SEE ASCE 7-05 TABLE 11.4-1, PER ASCE 7-05, USE CLASS D UNLESS OTHER INFORMATION IS PROVIDED)	C	
	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S _{DS} = 0.272	
		S _v = 0.097	
	SEISMIC DESIGN CATEGORY (ASCE 7-05 11.6)	C	
	BASIC SEISMIC-FORCE RESISTING SYSTEM. SEE ASCE 7-05 TABLE 12.2-1	SPECIAL MASONRY SHEAR WALLS	
	RESPONSE MODIFICATION FACTOR	R = 6	
	OVERSTRENGTH FACTOR	O _s = 3.0	
	ANALYSIS PROCEDURE USED. (ASCE 7-05 EQUIVALENT LATERAL FORCE PROCEDURE SECTION 12.8)	C ₁ = 0.208	
	SEISMIC RESPONSE COEFFICIENT - ULTIMATE	C _u = 0.146	
WIND	IBC SIMPLIFIED METHOD PER SECTION 1609.6		
	WIND SPEED (3 SECOND GUST)	90 M.P.H.	
	EXPOSURE CATEGORY	B	
	WIND IMPORTANCE FACTOR (ASCE 7-05 TABLE 6.1)	I _w = 1.15	
	DEAD LOAD	20 P.S.F.	
	ROOF SNOW LOAD (VALUES SHOWN DO NOT INCLUDE DRIFT, OR UNBALANCED LOADS.)	P _s = 50 P.S.F.	
	SNOW EXPOSURE FACTOR (ASCE 7-05 TABLE 7.2)	C _e = 1.0	
	SNOW THERMAL FACTOR (ASCE 7-05 TABLE 7.3)	C _t = 1.0	
ROOF	SNOW IMPORTANCE FACTOR (ASCE 7-05 TABLE 7.4)	I _s = 1.1	
	LIVE LOAD	20 P.S.F.	
	DEAD LOAD	20 P.S.F.	
	LIVE LOAD	40 P.S.F.	
	CORRIDOR LOAD	30 P.S.F.	
	PARTITION LOAD	xx P.S.F.	
	DEFLECTION	BEAM SUPERIMPOSED LOAD	L/360
		NON-COMPOSITE	L/600 (0.33" MAX)
		BEAM SUPERIMPOSED LOAD	L/360
		COMPOSITE	L/600 (0.33" MAX)
		ELEVATORS EQUIPMENT SUPPORT BEAMS	L/1666
INTERIOR STORY WIND/SEISMIC DRIFT (h = story ht)		DM = 0.02 * h	
SOIL BEARING		(TO BE VERIFIED BY SOILS REPORT)	1500 P.S.F.

MARKS & ABBREVIATIONS

AB	ANCHOR BOLT	JST	JOIST
ACI	AMERICAN CONCRETE INSTITUTE	K	KIP = 1000 POUNDS
ADJ	ADJACENT	KLF	KIPS PER LINEAL FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	KSF	KIPS PER SQUARE FOOT
AISI	AMERICAN IRON & STEEL INSTITUTE	LBS	POUNDS
ALT	ALTERNATE	LF	LINEAL FOOT
APA	AMERICAN PLYWOOD ASSOCIATION	LGFS	LIGHT GAUGE STEEL FRAMING
ARCH	ARCHITECT	LL	LIVE LOAD
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	LVL	LAMINATED VENEER LUMBER
AWSA	AMERICAN WELDING SOCIETY	MAS	MASONRY
BF-X	BRACED FRAME MARK	MAX	MAXIMUM
BLDG	BUILDING	MCJ	MASONRY CONTROL JOINT
BLW	BELOW	MC-X	MASONRY COLUMN MARK
BM	BEAM	MECH	MECHANICAL
BOT	BOTTOM	MF-X	MOMENT FRAME
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
CB-X	CONCRETE BEAM MARK	ML-X	MASONRY LINTEL MARK
CC-X	CONCRETE COLUMN MARK	MP-X	MASONRY PIER MARK
CBG-X	CONCRETE GRADE BEAM MARK	MW-X	MASONRY WALL MARK
C.J.	CONST. OR CONTROL JOINT		
CL-X	CONCRETE LINTEL MARK	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	O.F.	OUTSIDE FACE
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS		
CP-X	CONCRETE PIER MARK	PL	PLATE
CRW-X	CONCRETE RETAINING WALL MARK	PLF	POUNDS PER LINEAL FOOT
CSW-X	CONCRETE SHEAR WALL MARK	PSF	POUNDS PER SQUARE FOOT
CW-X	CONCRETE WALL MARK	PSI	POUNDS PER SQUARE INCH
		PSL	PARALLEL BEAM
DBA	DEFORMED BAR ANCHOR		
DBE	DECK BEARING ELEVATION		
DBL	DOUBLE	REIN	REINFORCING
DET	DETAIL	REQD	REQUIRED
DI	DIAMETER	R.D.	ROOF DRAIN
DIM	DIMENSION		
DL	DEAD LOAD	SAD	SEE ARCHITECTURAL DRAWINGS
DWG	DRAWING	SBP-X	STEEL BASE PLATE
DWL	DOWEL	SC-X	STEEL COLUMN MARK
		SCP-X	STEEL CAP PLATE
E	EXISTING	SER	STRUCTURAL ENGINEER OF RECORD
EA	EACH	SHT	SHEET
E.F.	EACH FACE	SI	SPECIAL INSPECTION
E.J.	EXPANSION JOINT	SIM	SIMILAR
EL	EARTH QUAKE LOAD	SJI	STEEL JOIST INSTITUTE
ELEV	ELEVATION	SL	SNOW LOAD
EQ	EQUAL	SOG	SLAB ON GRADE
E.W.	EACH WAY	SO	SQUARE
EXP	EXPANSION	SSMA	STEEL STUD MANUFACTURES ASSOCIATION
EXT	EXTERIOR	STAG	STAGGERED
		STD	STANDARD
FC-X	FOOTING CONTINUOUS MARK	STIFF	STIFFENER
FND	FOUNDATION	STL	STEEL
FL	FLOOR	STR	STRUCTURAL
FR-X	MAT FOOTING MARK	STSDS	SELF TAPPING SELF DRILLING SCREWS
FR-X	RECTANGULAR FOOTING MARK	SW-X	SHEAR WALL MARK
FS-X	SQUARE FOOTING MARK		
FTG	FOOTING	T&B	TOP AND BOTTOM
FTS-X	THICKENED SLAB FOOTING MARK	TEMP	TEMPERATURE
		THK	THICKNESS
GA	GAUGE	T.O.	TOP OF
GAL	GALVANIZED	TOC	TOP OF CONCRETE
GLB	GLUE LAMINATED BEAM	TOD	TOP OF DECK
GR	GRADE	TOT	TOP OF FOOTING
GRT	GROUT	TOW	TOP OF WALL
GSN	GENERAL STRUCTURAL NOTES	TPY	TYPICAL
HB	HORIZONTAL BRIDGING	UNO	UNLESS NOTED OTHERWISE
HGD	HOT DIP GALVANIZED		
HORIZ	HORIZONTAL	VERT	VERTICAL
HSA	HEADED STUD ANCHOR	VIF	VERIFY IN FIELD
		W	WITH
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	WD-X	WOOD DIAPHRAGM MARK
BC	INTERNATION BUILDING CODE	WL	WINDLOAD
I.F.	INTERIOR FACE	WT	WEIGHT
IN	INCH	WWF	WELDED WIRE FABRIC
INT	INTERIOR	WWPA	WELDED WOODS PROJECT ASSOCIATION

CONCRETE SYMBOLS

ELEMENT	SYMBOL
STEEL FLOOR DECK LONGITUDINAL	
STEEL FLOOR DECK TRANSVERSE	
STEEL ROOF DECK LONGITUDINAL	
STEEL ROOF DECK TRANSVERSE	
CONCRETE WALL	
CONCRETE COLUMN OR PIER	
DEPRESSED SLAB	
FLOOR OFFSET	
RAMP DOWN	
FLOOR OR WALL OPENING	
DEPRESSED FND WALL, POUR SLAB OVER, SEE FTG AND FND DETS ON (S301)	
FTG STEP, SEE FTG AND FND DETS ON (S501)	

MISCELLANEOUS SYMBOLS

ELEMENT	SYMBOL
GRID LINES	
SECTION MARK	
ELEVATION MARK	
METAL ROOF DECK	
CONC OVER HTL FLOOR DECK	
GRAVEL	

CONNECTORS

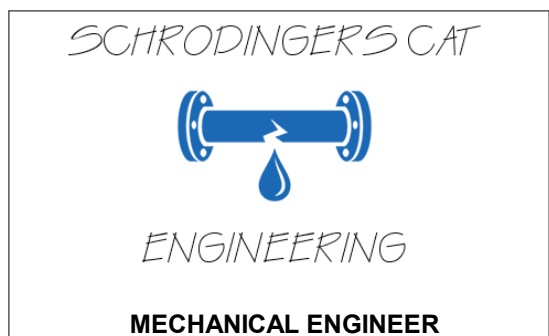
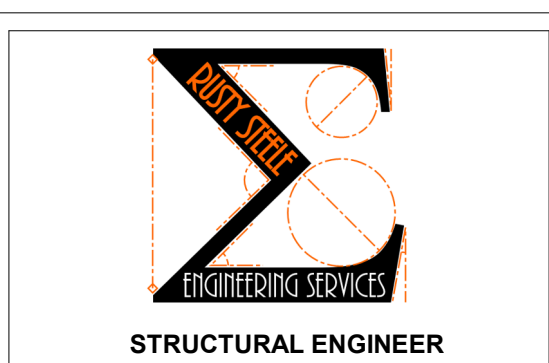
CONNECTOR	SECTION	PLAN VIEW
HEAD STUD ANCHOR		
CONCRETE ANCHOR BOLT		
CONCRETE ANCHOR BOLT - HOOKED		
EXPANSION ANCHOR OR MECHANICAL ANCHOR		
EPOXY ANCHOR		

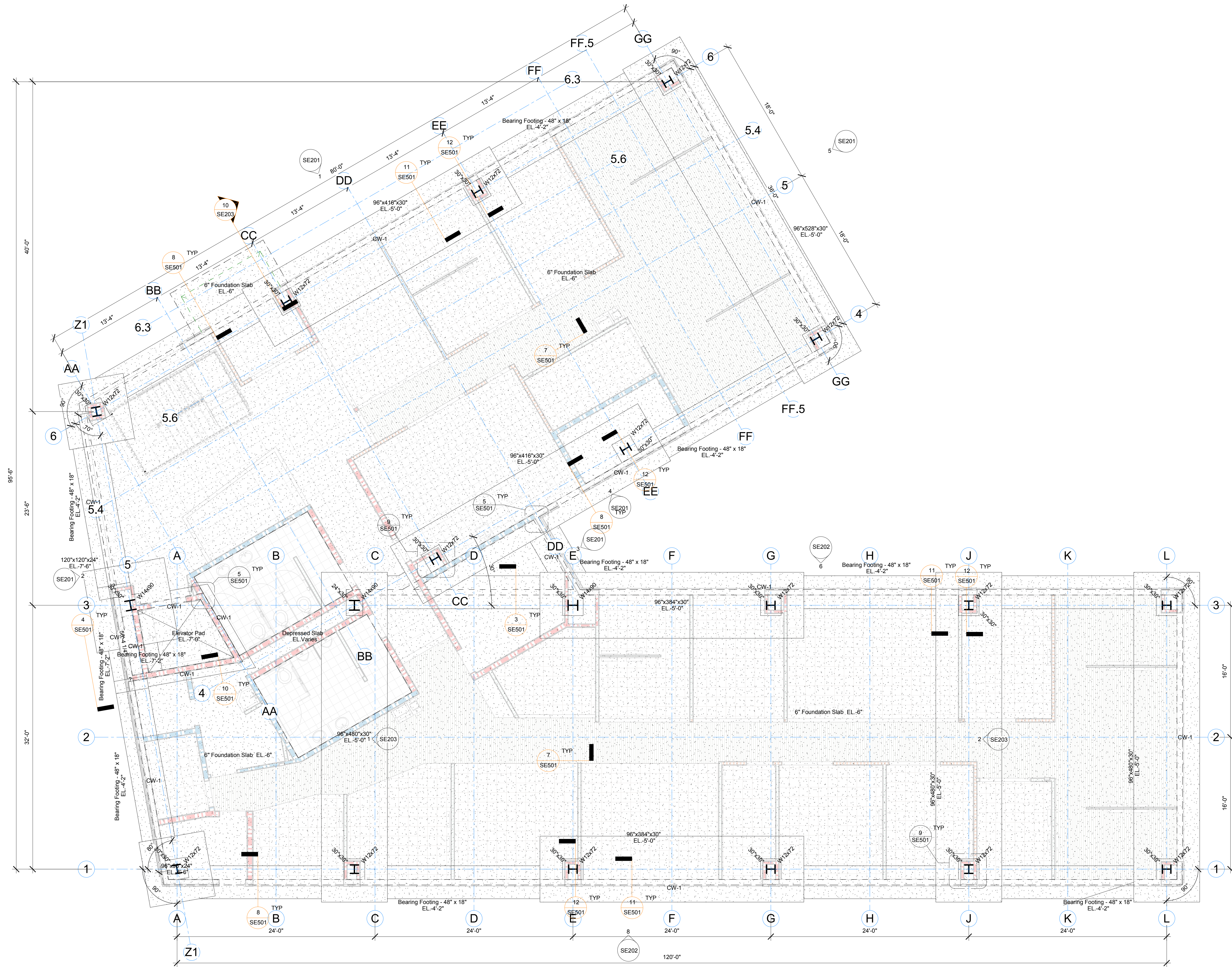
STEEL SYMBOLS

STEEL COLUMN IN PLAN	
CONCRETE ENCASED STEEL COLUMN IN PLAN	
STEEL COLUMN AT LEVEL OR AND ABOVE	
CONCRETE POUR BACK AT STEEL COLUMN IN PLAN	
STEEL COLUMN AT CONCRETE WALL PIER	
STEEL COLUMN BELOW	
LATERAL FRAME MOMENT CONNECTIONS	
GRAVITY MOMENT CONNECTIONS	
DIAGONAL BRACING ABOVE MID-BEAM CONNECTION	
DIAGONAL BRACING BELOW MID-BEAM CONNECTION	
DIAGONAL BRACING ABOVE COLUMN END-BEAM CONNECTION	
DIAGONAL BRACING BELOW COLUMN END-BEAM CONNECTION	
DOUBLE SHEAR CONNECTION, SEE SCHED ON (S301)	
JST TOP CHORD TIE, SEE ROOF FRAMING DETS ON (S701)	
HORIZ BRDG REQD FOR UPLIFT, SEE STL JST SUPPLIER FOR REQD X-BRIDG	
HORIZ BRDG	
BEAM WEB PENETRATION	

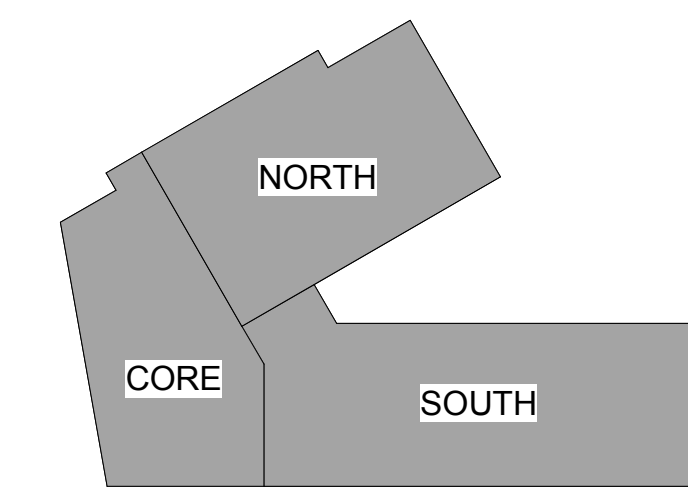
STEEL MEMBERS

STRUCTURAL MEMBER	PLAN VIEW	SECTION	ELEVATION
WIDE FLANGE			
CHANNEL			
ANGLE			
DOUBLE ANGLE			
SQUARE OR RECT HOLLOW SECTION			
CIRCULAR HOLLOW SECTION			





1 FOOTING & FOUNDATION PLAN
3/16" = 1'-0"



KEY PLAN

- ### FOOTING & FOUNDATION PLAN NOTES
- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
 - SEE ARCHITECTURAL FOR ALL DIMENSIONS TO STEEL COLUMN.
 - SEE DETAILS 1/SE501 AND 2/SE501 FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
 - SEE DETAIL 3/SE501 FOR FILL BENEATH FOOTINGS.
 - SEE 4/SE501 FOR THE TYPICAL FOOTING STEP DETAIL.
 - SEE 5/SE501 FOR FDN WALL & MASONRY WALL INTERSECTION DETAIL.
 - COORDINATE ALL SLAB CONTROL JOINTS AND CONSTRUCTION JOINTS WITH DETAIL 6/SE501 AND 7/SE501. SEE ARCHITECTURAL DRAWINGS FOR SPACING.
 - COORDINATE ALL DISCONTINUOUS SLAB CONTROL JOISTS WITH DETAIL 6/SE501 AND 8/SE501.
 - SEE DETAIL 9/SE501 FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
 - SEE DETAIL 10/SE501 FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN MASONRY WALLS.
 - SEE DETAIL 11/SE501 FOR MASONRY WALL REINFORCEMENT TERMINATIONS.
 - SEE DETAIL 12/SE501 FOR MASONRY CONTROL JOINTS.
 - SEE DETAIL 13/SE501 FOR REINFORCING AROUND RECESS IN MASONRY WALLS.
 - SEE DETAILS 10/SE501 & 11/SE501 FOR TRENCH DRAIN REINFORCING.
 - COORDINATE LOCATIONS WITH CIVIL & MECHANICAL DRAWINGS.
 - FRAMERS SHALL DRILL ALL PLUMBING HOLES IN SHEAR WALL TOP & BOTTOM PLATES.
 - SEE DETAIL 13/SE501 FOR SILL PLATE BOLTING REQUIREMENTS.

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Revision Schedule		
No.	Description	Date

Sheet Name:
FOOTING & FOUNDATION PLAN

SE101

FLOOR PLAN NOTES

1. SEE THE PROJECT SPECIFICATION BOOK FOR STRUCTURAL SCHEDULES NOTED IN THESE PLANS.
2. VERIFY ALL FLOOR OPENINGS FOR STAIRS, MECHANICAL DUCTS, PLUMBING, ECT. WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
3. COORDINATE ALL INTERSECTING STUD WALLS WITH DETAIL 1/SE511.
4. COORDINATE ALL STEEL COLUMNS IN STUD WALLS WITH DETAIL 4/SE511. (BOLT ALL INTERSECTING WALLS TO THE STEEL COLUMN BY THIS METHOD).
5. SEE SHEET S301 FOR NAILING SCHEDULE.
6. CONTRACTOR / FRAMER SHALL NOTE ALL SHEATHING NAILING PATTERNS AS NOTED IN THE SHEAR WALL & DIAPHRAGM SCHEDULES & NOTE THE NAILING REQUIREMENTS OF STUDS TO 3/8" SILL PLATES SPECIFIED IN THE SHEAR WALL SCHEDULE.
7. SEE DETAIL 6/SE511 FOR BUILT-UP MEMBER NAILING/BOLTING.

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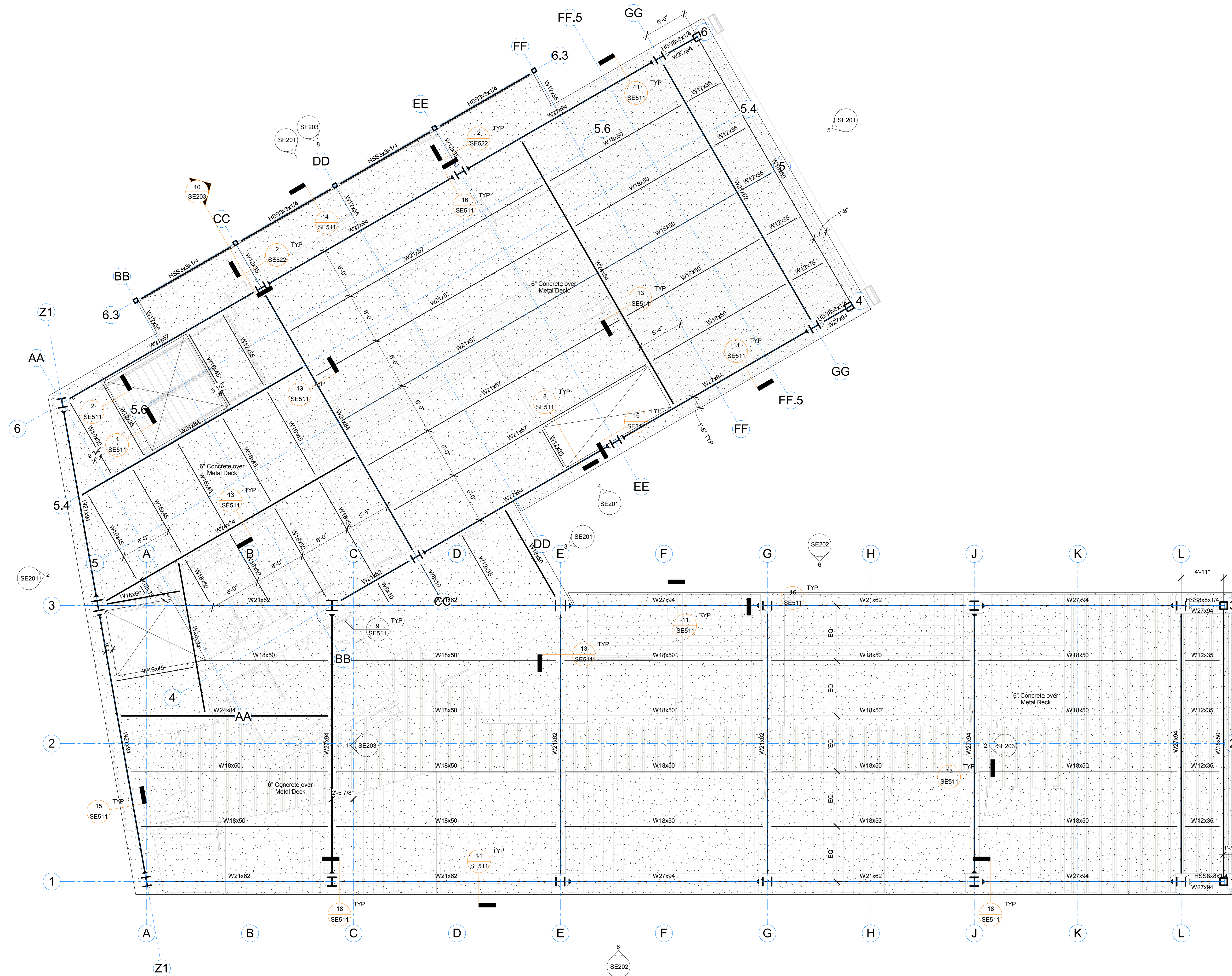
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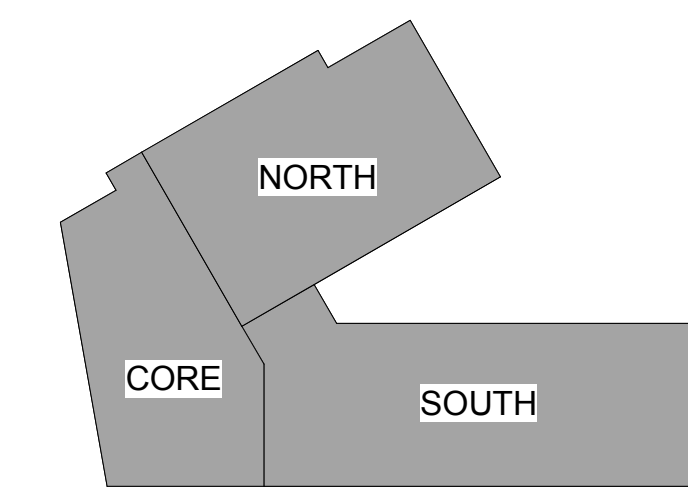
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1 SECOND FLOOR FRAMING PLAN
3/16" = 1'-0"



KEY PLAN

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Revision Schedule		
No.	Description	Date

Sheet Name:
SECOND FLOOR - FRAMING PLAN

SE102

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FLOOR PLAN NOTES

1. SEE THE PROJECT SPECIFICATION BOOK FOR STRUCTURAL SCHEDULES NOTED IN THESE PLANS.
2. VERIFY ALL FLOOR OPENINGS FOR STAIRS, MECHANICAL DUCTS, PLUMBING, ECT. WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
3. COORDINATE ALL INTERSECTING STUD WALLS WITH DETAIL 1/SE511.
4. COORDINATE ALL STEEL COLUMNS IN STUD WALLS WITH DETAIL 4/SE511. (BOLT ALL INTERSECTING WALLS TO THE STEEL COLUMN BY THIS METHOD).
5. SEE SHEET S301 FOR NAILING SCHEDULE.
6. CONTRACTOR / FRAMER SHALL NOTE ALL SHEATHING NAILING PATTERNS AS NOTED IN THE SHEAR WALL & DIAPHRAGM SCHEDULES & NOTE THE NAILING REQUIREMENTS OF STUDS TO 3x SILL PLATES SPECIFIED IN THE SHEAR WALL SCHEDULE.
7. SEE DETAIL 6/SE511 FOR BUILT-UP MEMBER NAILING/BOLTING.



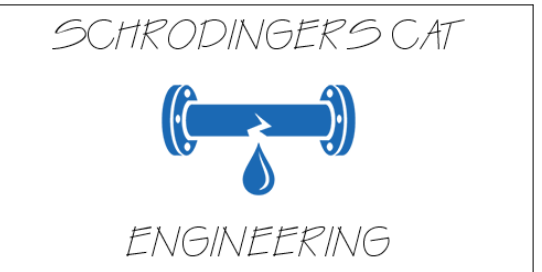
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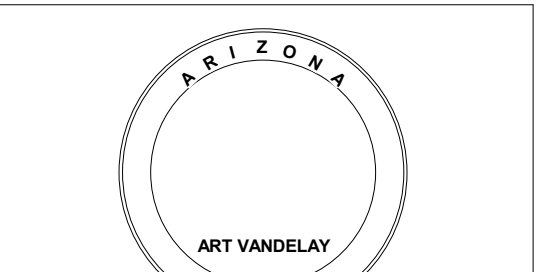
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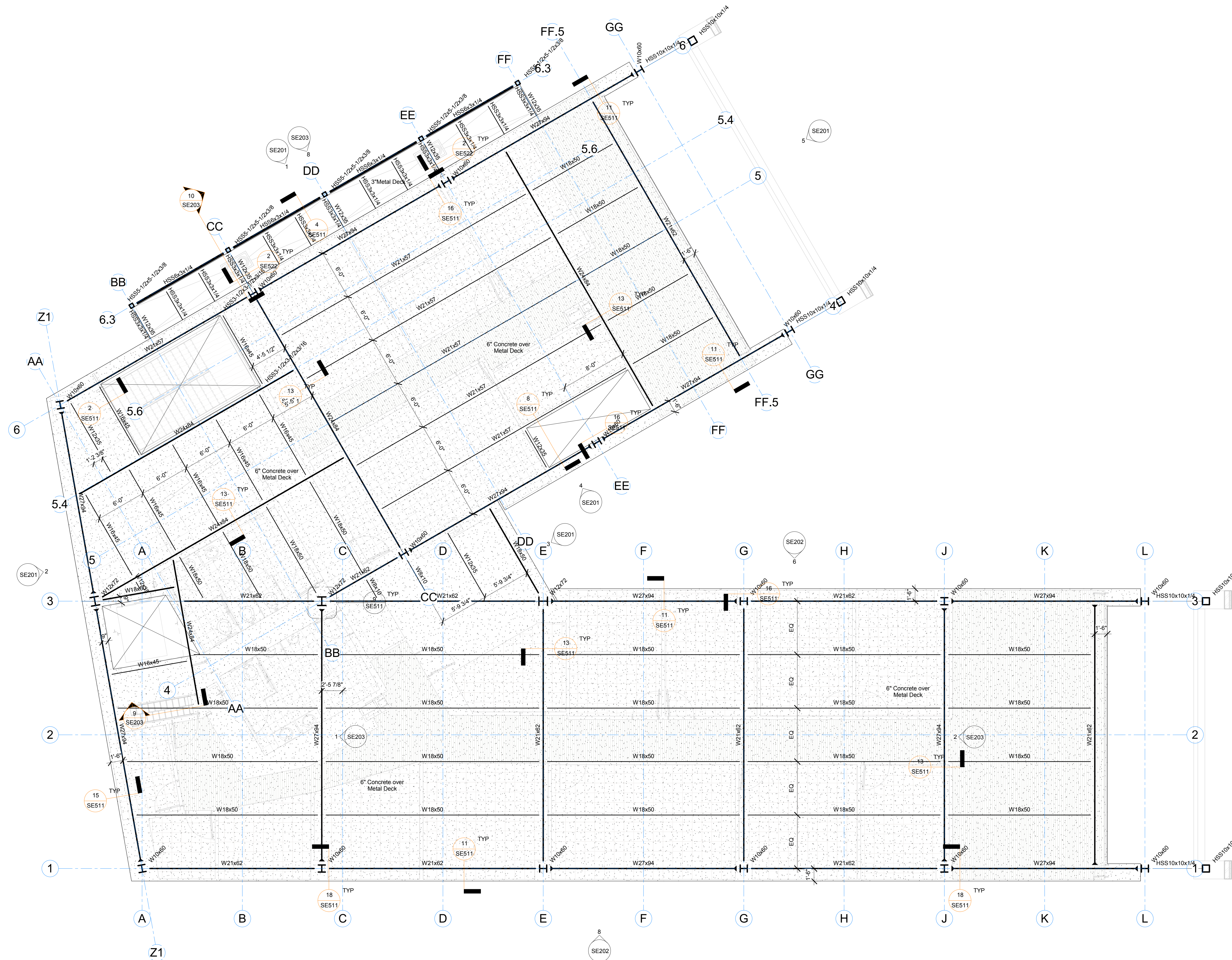
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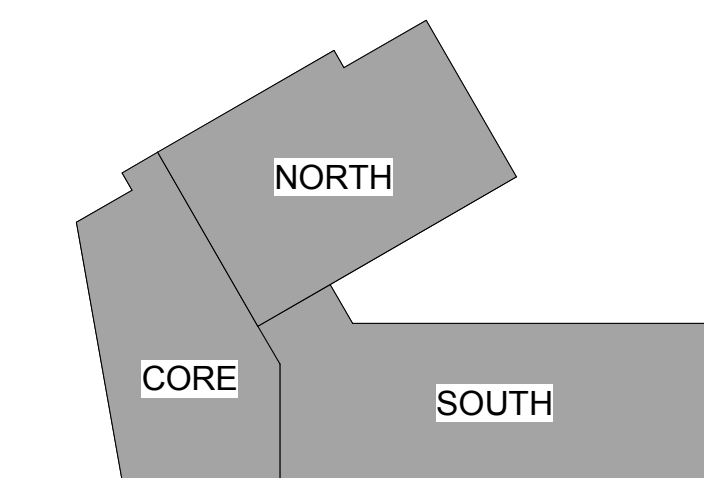
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1 THIRD FLOOR FRAMING PLAN
3/16" = 1'-0"



KEY PLAN

Project Name:
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Revision Schedule		
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Sheet Name:
THIRD FLOOR - FRAMING PLAN

SE103

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ROOF PLAN NOTES

1. VERIFY ROOF SLOPES, DRAINS, AND DECK BEARING ELEVATIONS WITH ARCH DRAWINGS.
2. ALL OPEN WEB STEEL JOISTS SHALL HAVE 2 1/2" DEEP BEARING ENDS.
3. COORDINATE ALL INTERSECTING STUD WALLS WITH DETAIL 2/SE521.
4. SEE DETAIL 6/SE511 FOR BUILT-UP MEMBER NAILING/BOLTING.
5. FRAME ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12' x 12' SHALL BE FRAMED AS SHOWN IN DETAILS 1/SE520 AND 3/SE522 FOR OPENINGS THAT CUT LESS THAN TWO (2) DECK FLUTES. SEE DETAIL 4/SE520.
6. SEE DETAIL 2/SE520 FOR STEEL FRAMES AT ALL ROOF TO EQUIPMENT. CONTRACTOR SHALL VERIFY THE SIZE, WEIGHT, AND LOCATION OF ROOF TOP UNITS WITH THE ARCH AND MECH DRAWINGS. COORDINATE THESE OPENINGS WITH THE MECHANICAL, ELECTRICAL AND GENERAL CONTRACTORS.
7. SEE DETAIL 5/SE520 FOR CONCENTRATED LOADS LOCATED FURTHER THAN 6" FROM THE JOIST/GIRDER PANEL JOINT.
8. SEE DETAIL 6/SE520 FOR MECHANICAL UNITS HUNG FROM JOISTS.
9. OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
10. WHERE MECHANICAL UNITS AND SKYLIGHTS MAY INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE.
11. * INDICATES THAT THESE ROOF JOISTS SHALL HAVE AN ADDITIONAL TOP CHORD LOAD OF 500 POUND POINT LOAD AT ANY PANEL POINT OR (4) 150 POUND POINT LOADS AT ANY (4) PANEL POINTS WHICHEVER GIVES THE WORST LOAD CONDITION. THIS LOAD SHALL BE ADDED TO THE GIRDER PANEL POINT ACCORDINGLY.
12. ** INDICATES THAT THESE ROOF JOISTS SHALL HAVE AN ADDITIONAL TOP CHORD LOAD OF 1000 POUND POINT LOAD AT ANY PANEL POINT OR (4) 300 POUND POINT LOADS AT ANY (4) PANEL POINTS WHICHEVER GIVES THE WORST LOAD CONDITION. THIS LOAD SHALL BE ADDED TO THE GIRDER PANEL POINT ACCORDINGLY.
13. JOISTS DESIGNER SHALL DESIGN JOISTS FOR AN 8 psf UPLIFT LOAD NOT CAUSED BY WIND. ADDITIONAL BRIDGING THAT MAY BE REQUIRED FOR THIS LOAD SHALL BE SUPPLIED BY THE DESIGNER.

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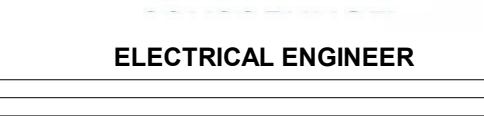
ENGINEERING

MECHANICAL ENGINEER



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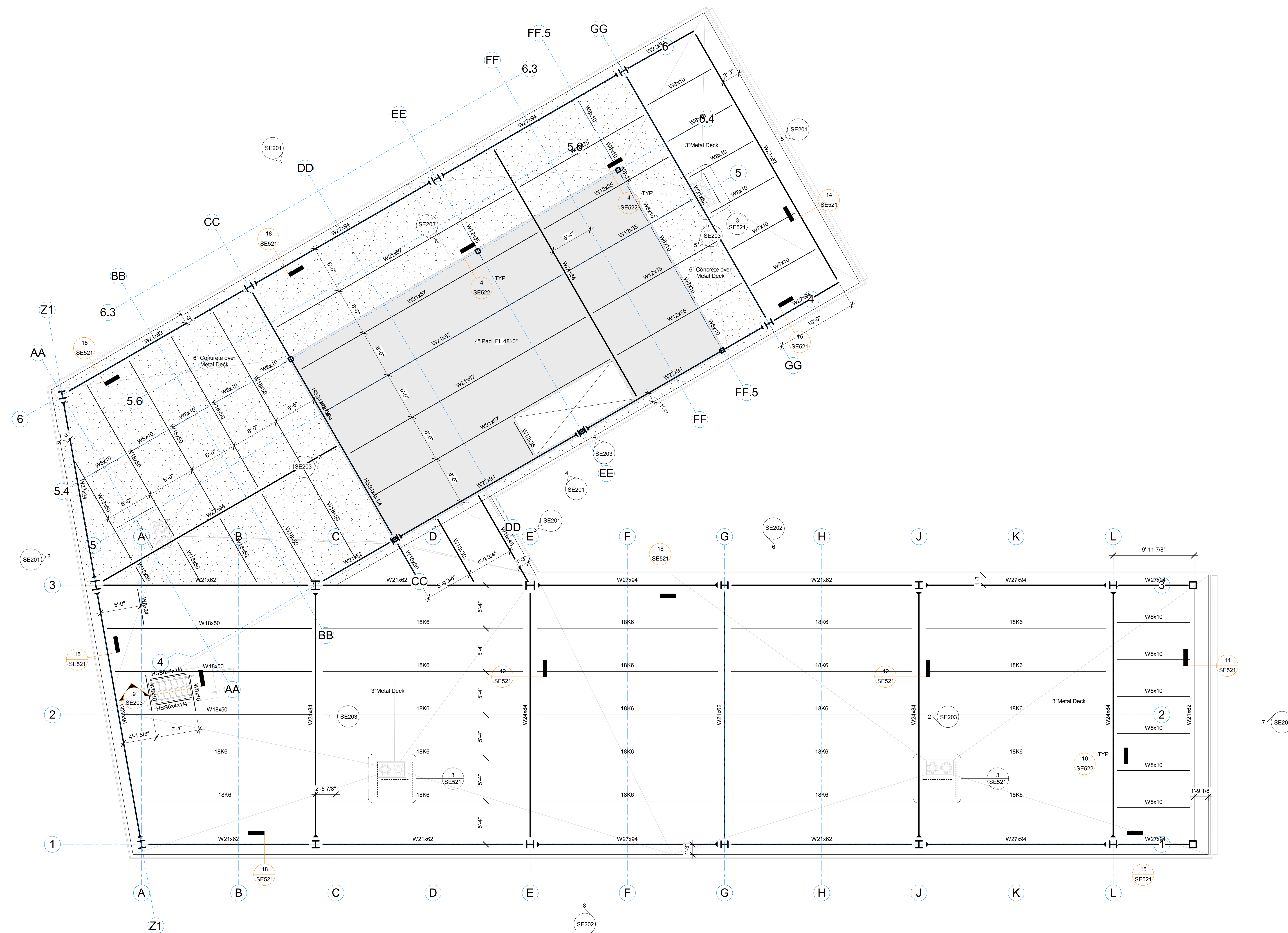
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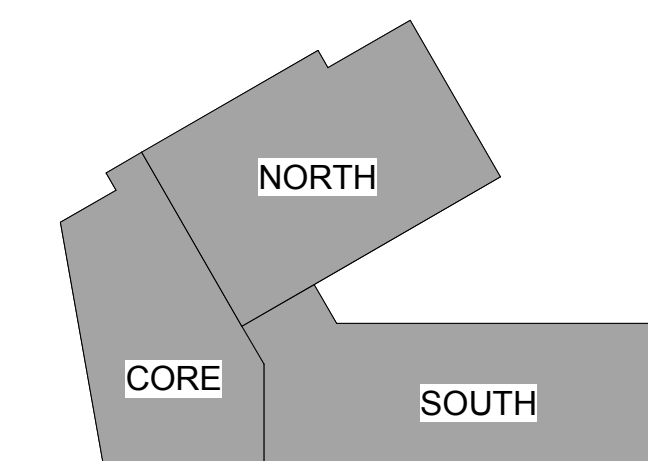
ART VANDELAY



ART VANDELAY



1 ROOF/ MECH PENTHOUSE FRAMING PLAN
3/16" = 1'-0"



KEY PLAN

Project Name:
The Vortex Business Center

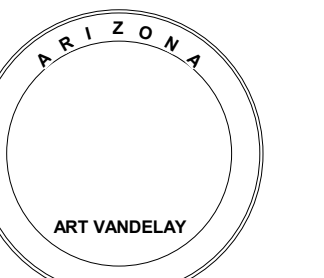
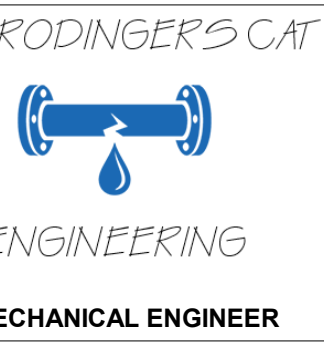
Revision Schedule		
No.	Description	Date

Sheet Name:
PENTHOUSE/ROOF - FRAMING PLAN

SE104

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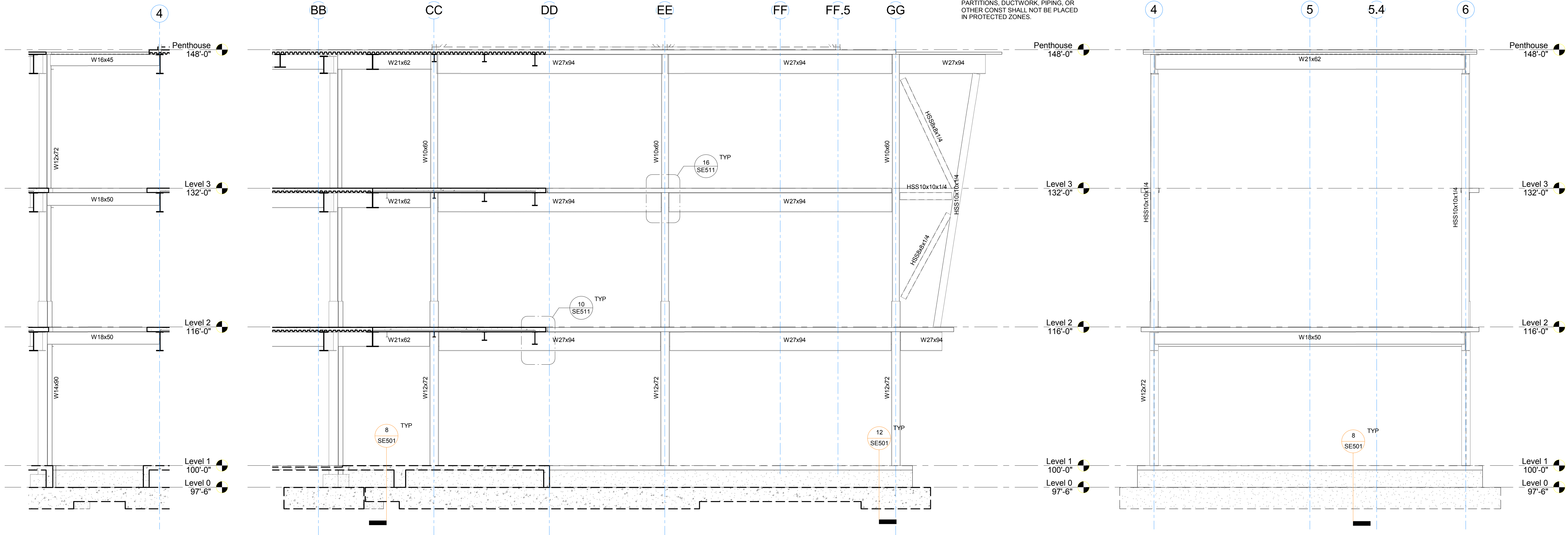
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MOMENT FRAME NOTES

1. ALL FRAME BEAMS AT CONCRETE FLOORS TO HAVE 3/4"Ø x 5" HSA AT 12"OC MIN

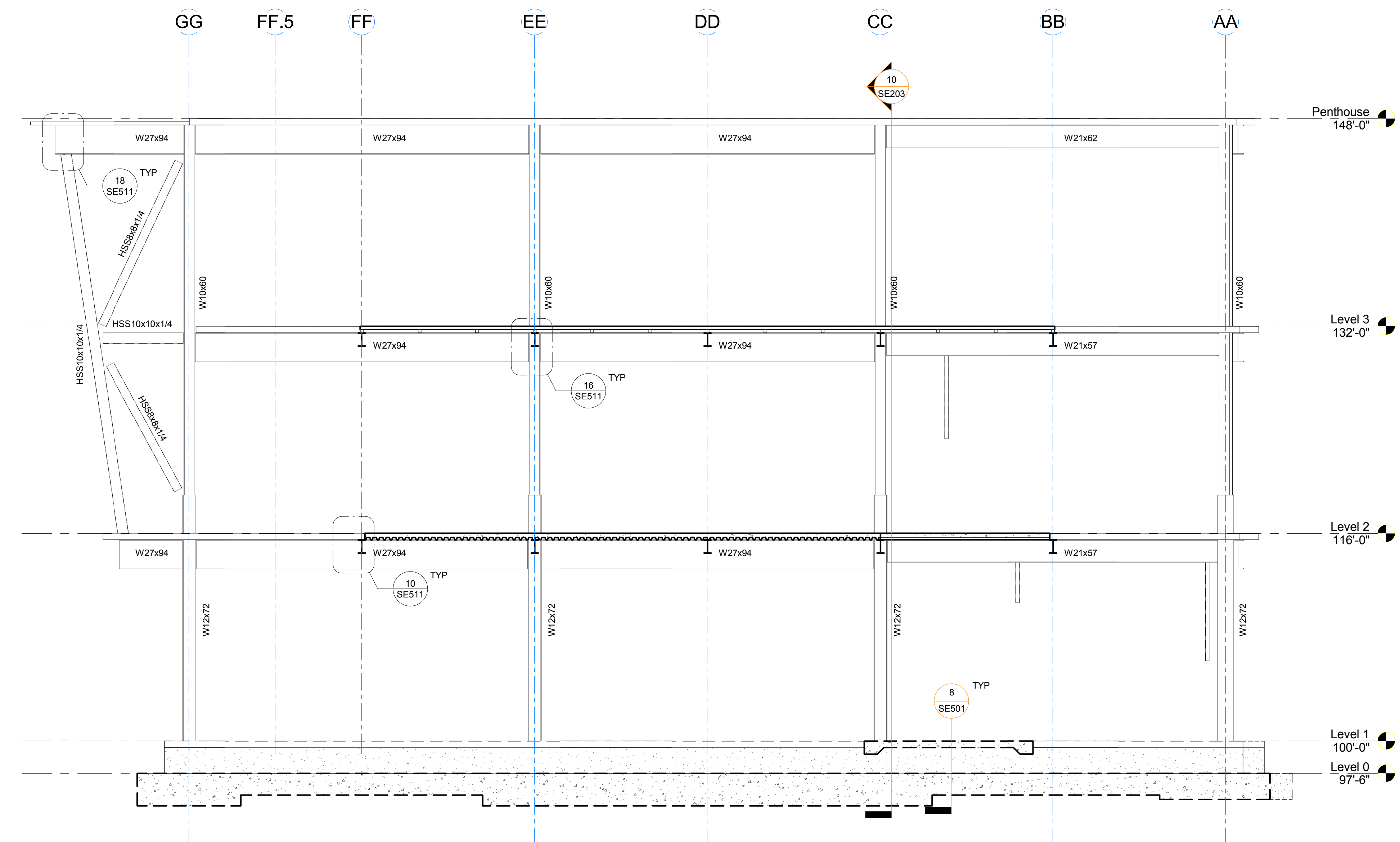
INDICATES PROTECTED ZONE: SEE WELDED, BOLTED SCREWED OR SHOT IN ATTACHMENTS FOR PERIMETER EDGE ANGLE, EXT FACADES, PARTITIONS, DUCTWORK, PIPING, OR OTHER CONST SHALL NOT BE PLACED IN PROTECTED ZONES.



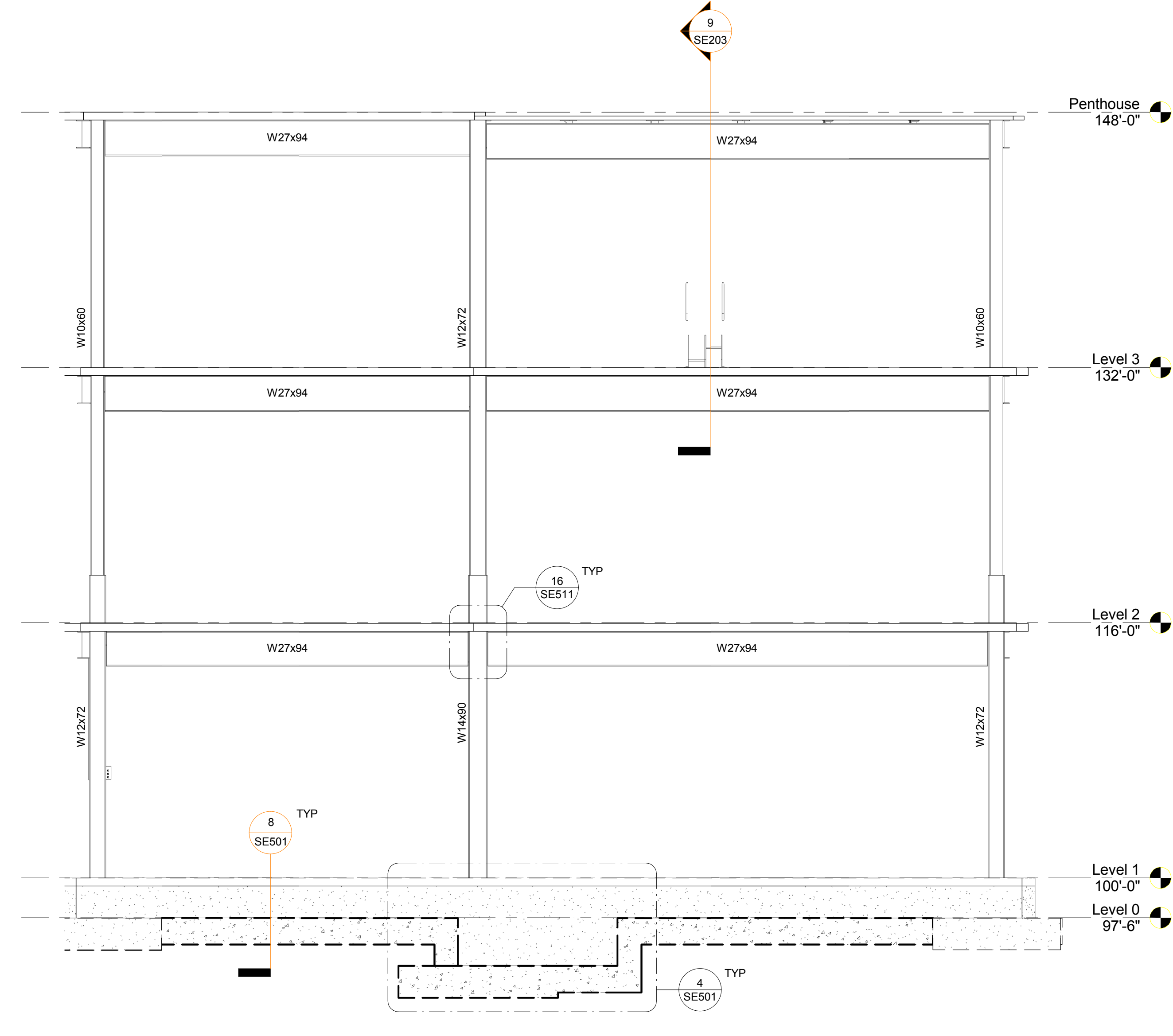
3 NORTH EAST FRAMING ELEVATION (Grid DD)
3/16" = 1'-0"

4 SOUTH EAST FRAMING ELEVATION (Grid 4)
3/16" = 1'-0"

5 NORTH EAST FRAMING ELEVATION (Grid GG)
3/16" = 1'-0"



1 NORTH WEST FRAMING ELEVATION (Grid 6)
3/16" = 1'-0"



2 WEST FRAMING ELEVATION (Grid Z1)
3/16" = 1'-0"

Project Name:
The Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
FRAMING ELEVATIONS

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ENGINEERING

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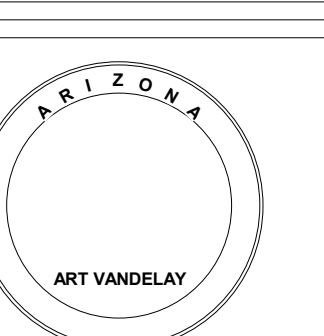


ELECTRICAL SOLUTION ENGINEERING LLC

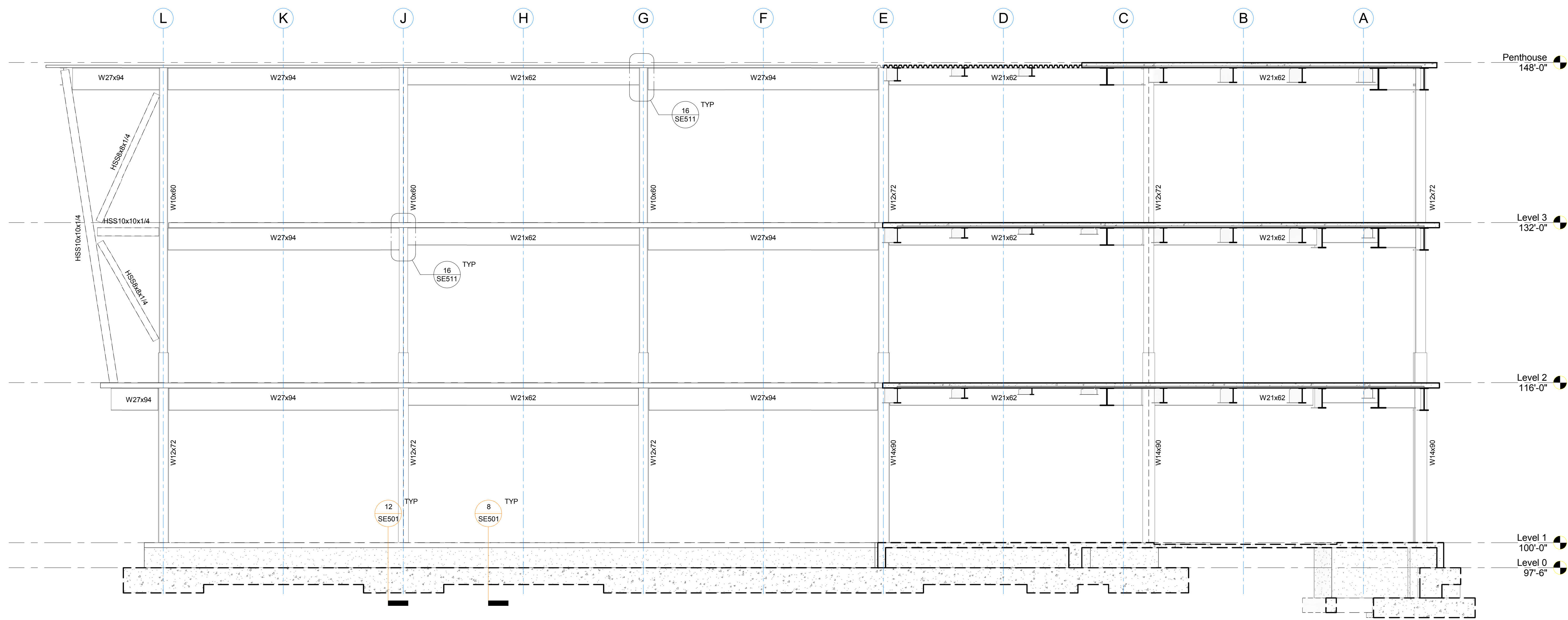
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CONTRACTOR



ART VANDELAY

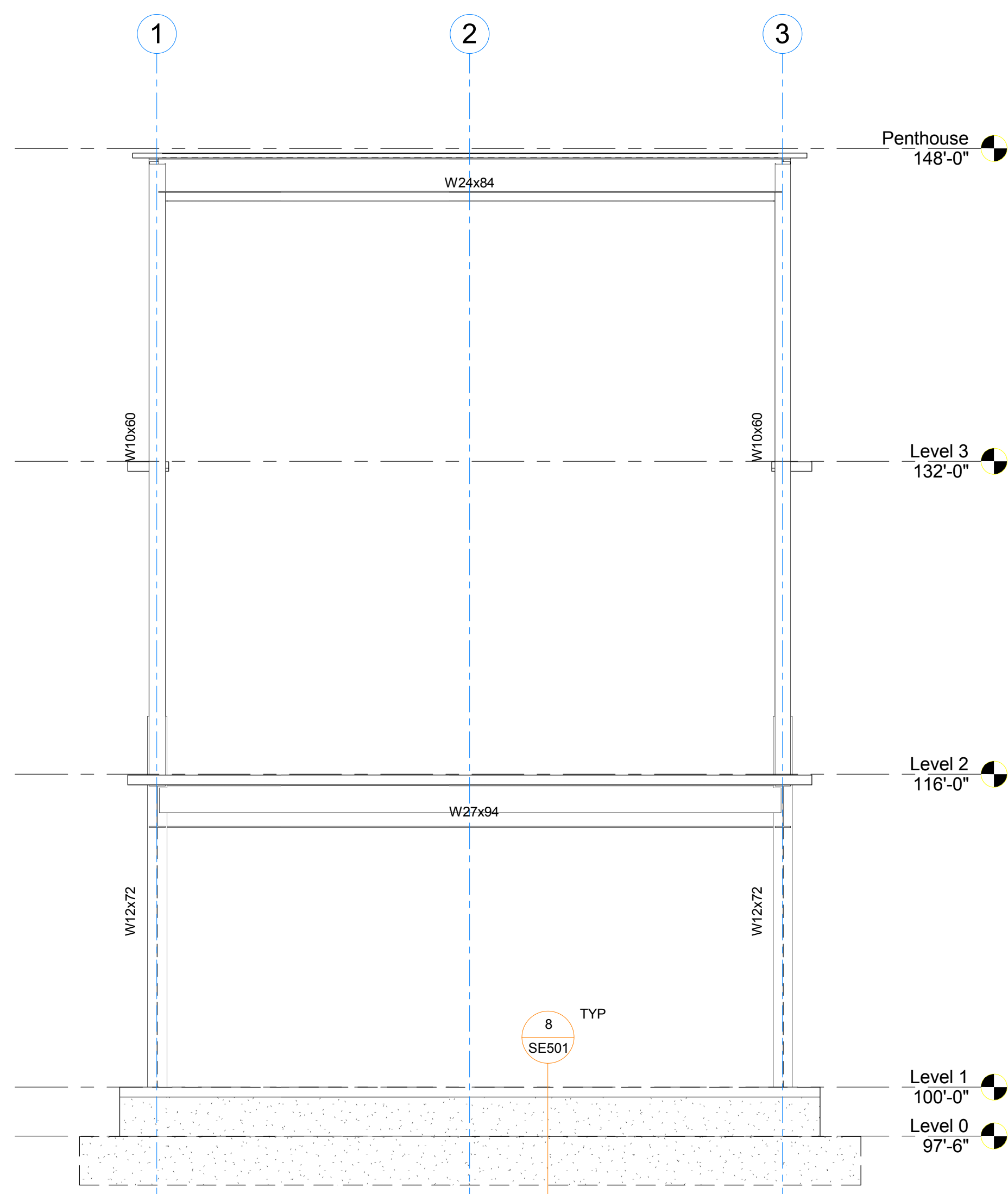


6 NORTH FRAMING ELEVATION (Grid 3)
3/16" = 1'-0"

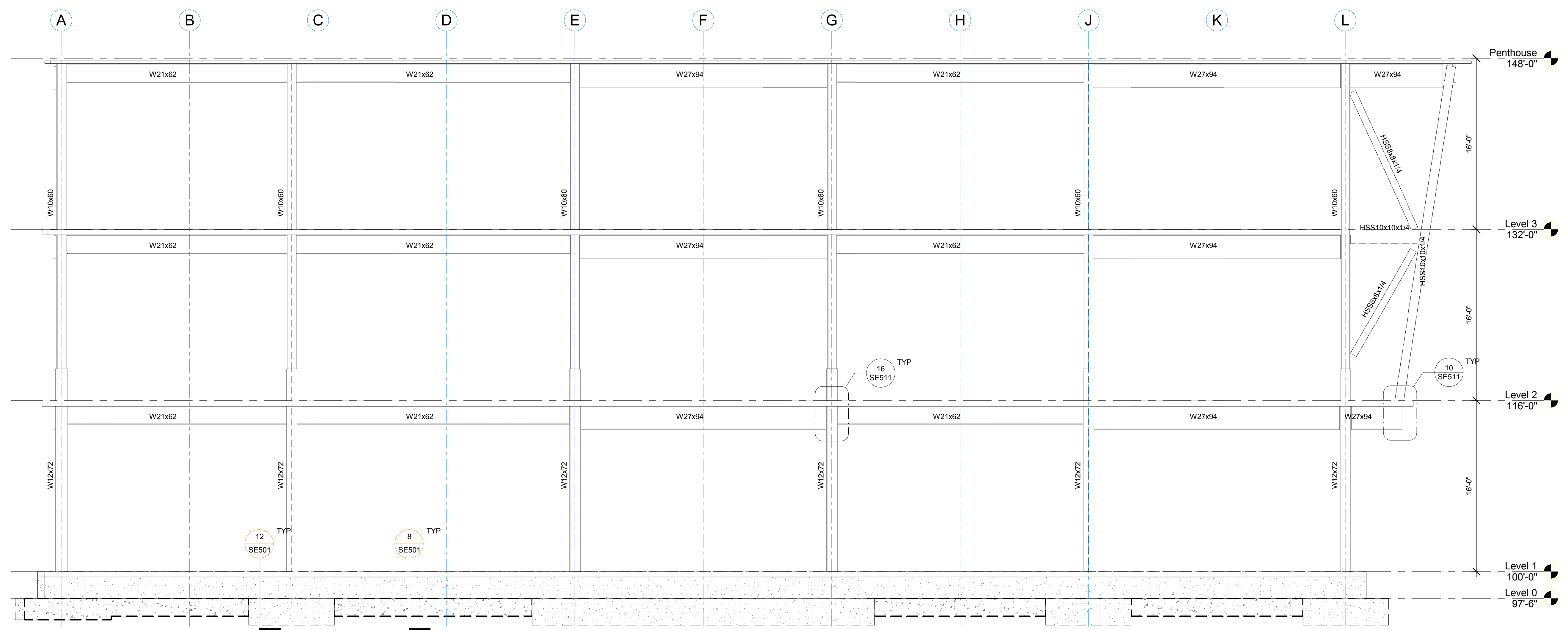
MOMENT FRAME NOTES

1. ALL FRAME BEAMS AT CONCRETE FLOORS TO HAVE 3/4"Ø x 5" HSA AT 12"OC MIN

INDICATES PROTECTED ZONE: SEE WELDED, BOLTED, SCREWED OR SHOT IN ATTACHMENTS FOR PERIMETER EDGE ANGLE, EXT FACADES, PARTITIONS, DUCTWORK, PIPING, OR OTHER CONST SHALL NOT BE PLACED IN PROTECTED ZONES.



7 EAST FRAMING ELEVATION (Grid L)
3/16" = 1'-0"



8 SOUTH FRAMING ELEVATION (Grid 1)
3/16" = 1'-0"

Project Name:
The Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
FRAMING ELEVATIONS

SE202



ARCHITECT



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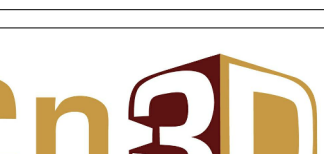
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ELECTRICAL SOLUTION



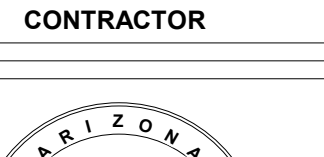
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Cn3D CONSTRUCTION



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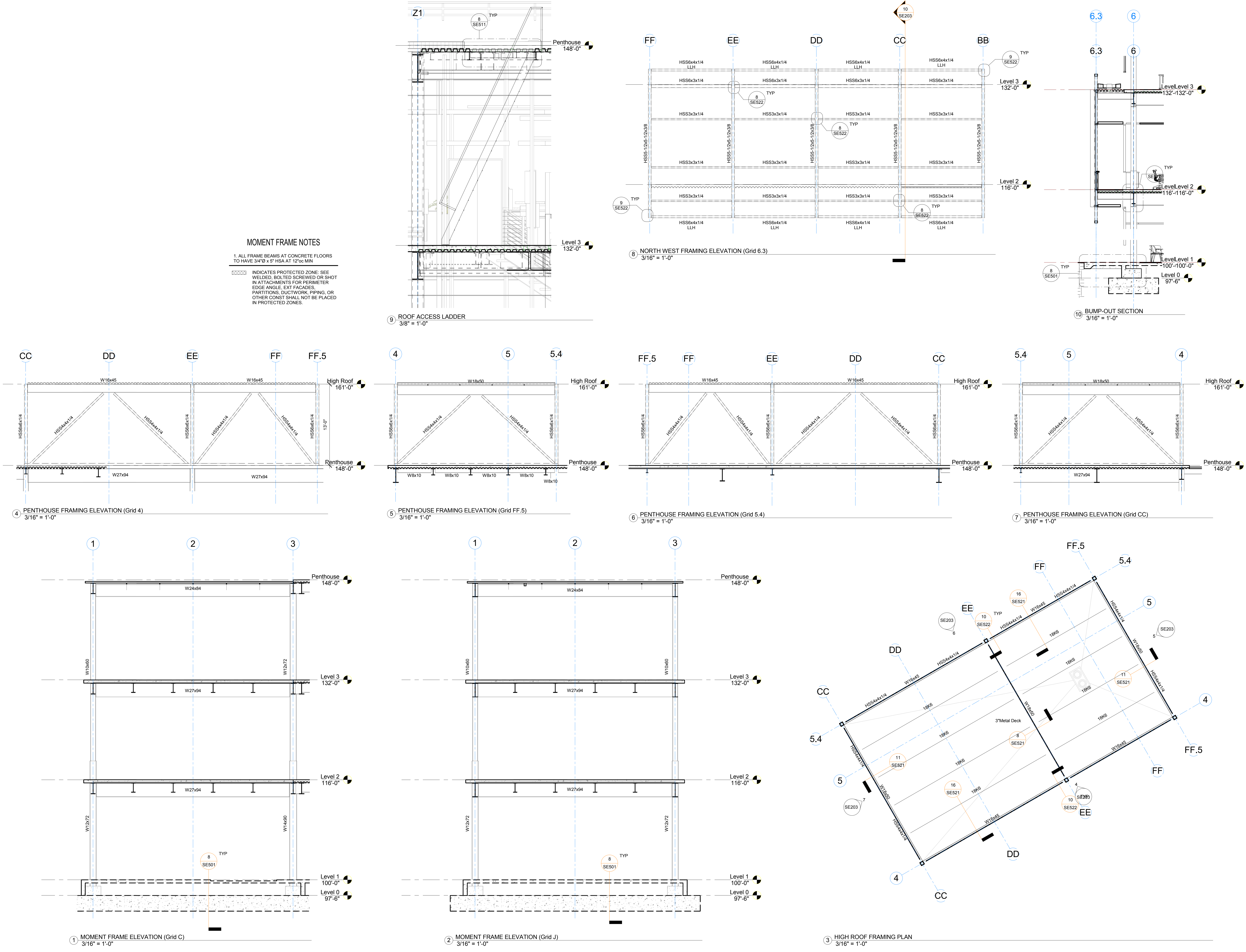
Project Name:
The Vortex Business Center

Revision Schedule		
No.	Description	Date

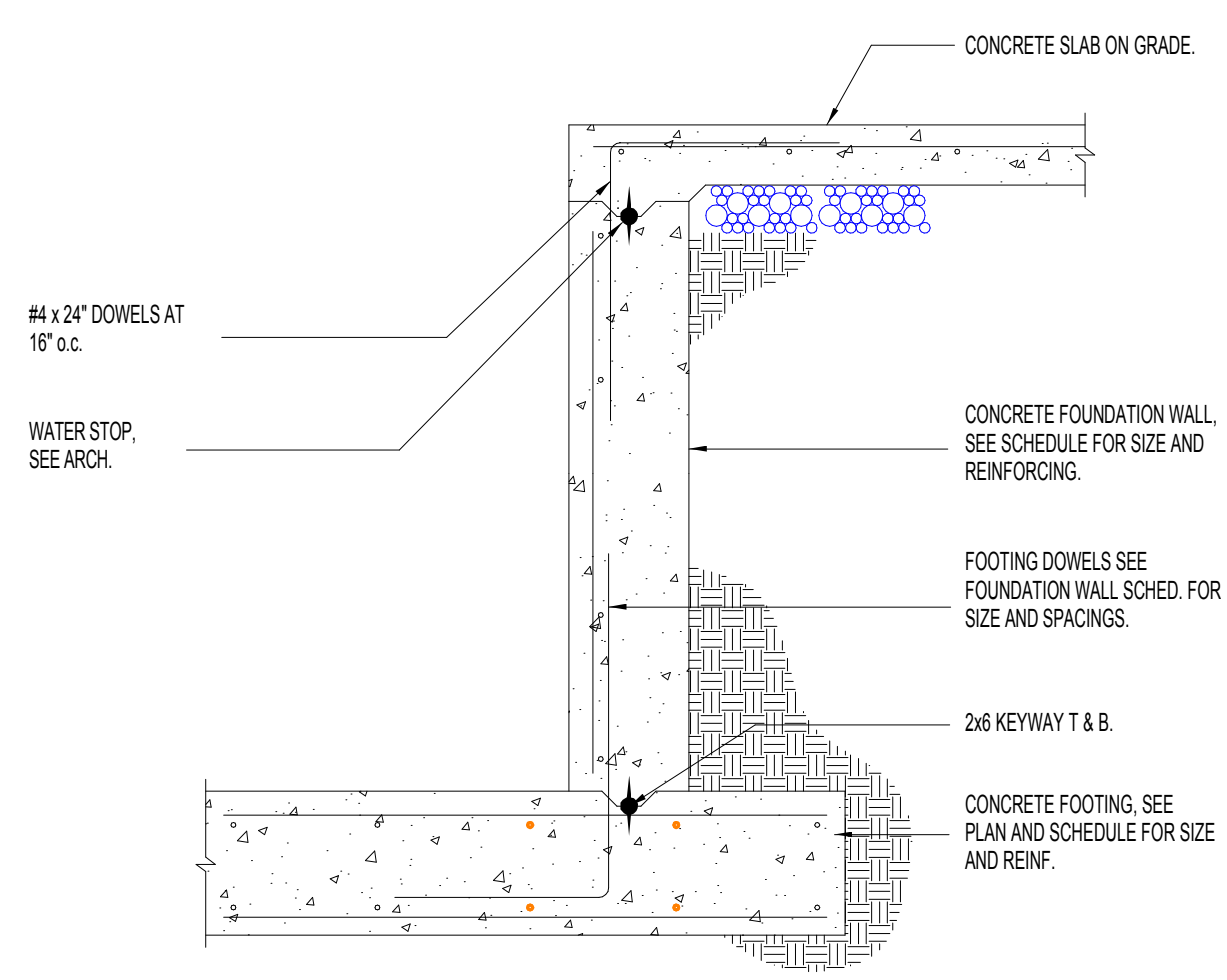
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HIGH ROOF FRAMING PLAN & ELEVATIONS

SE203

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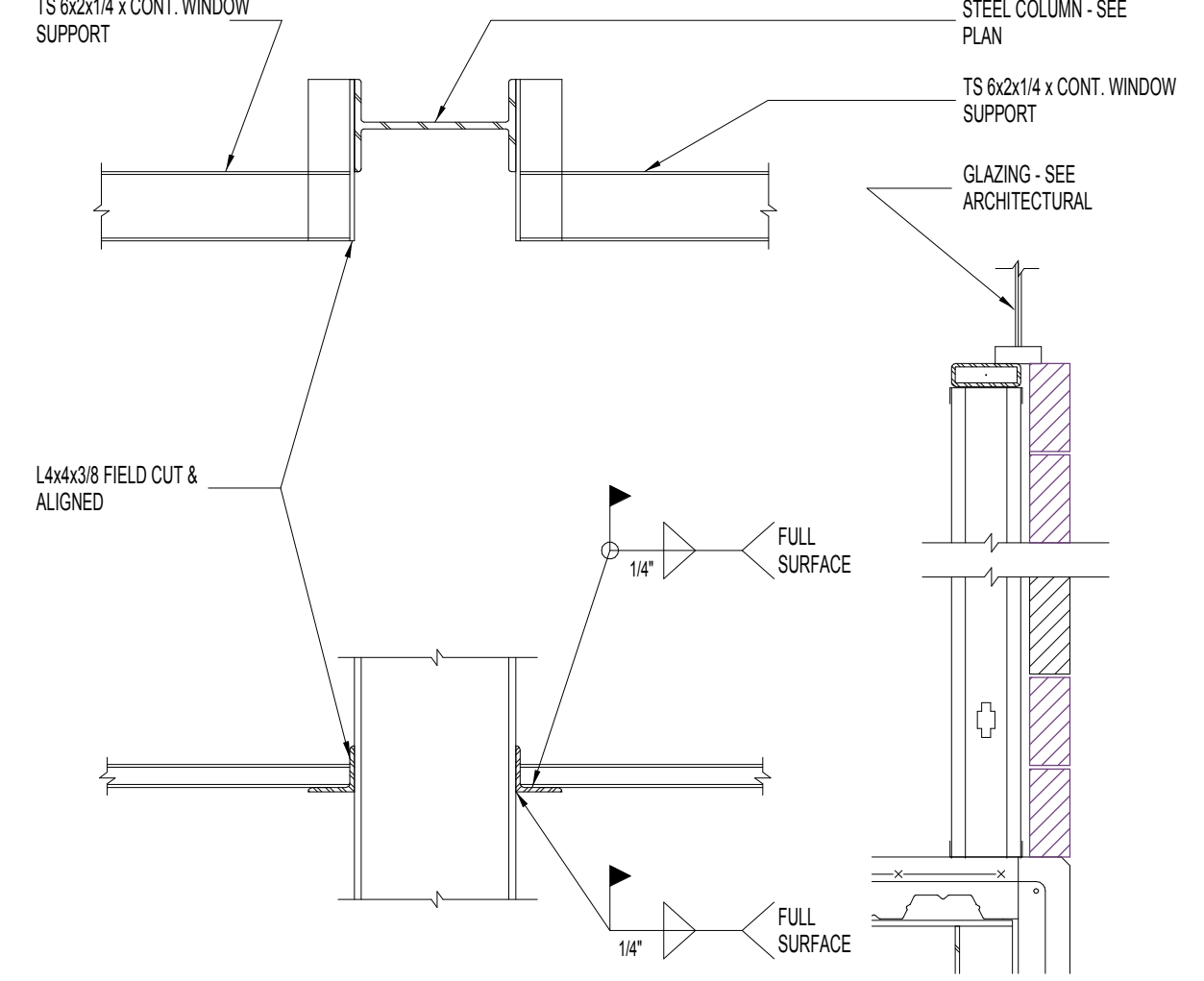


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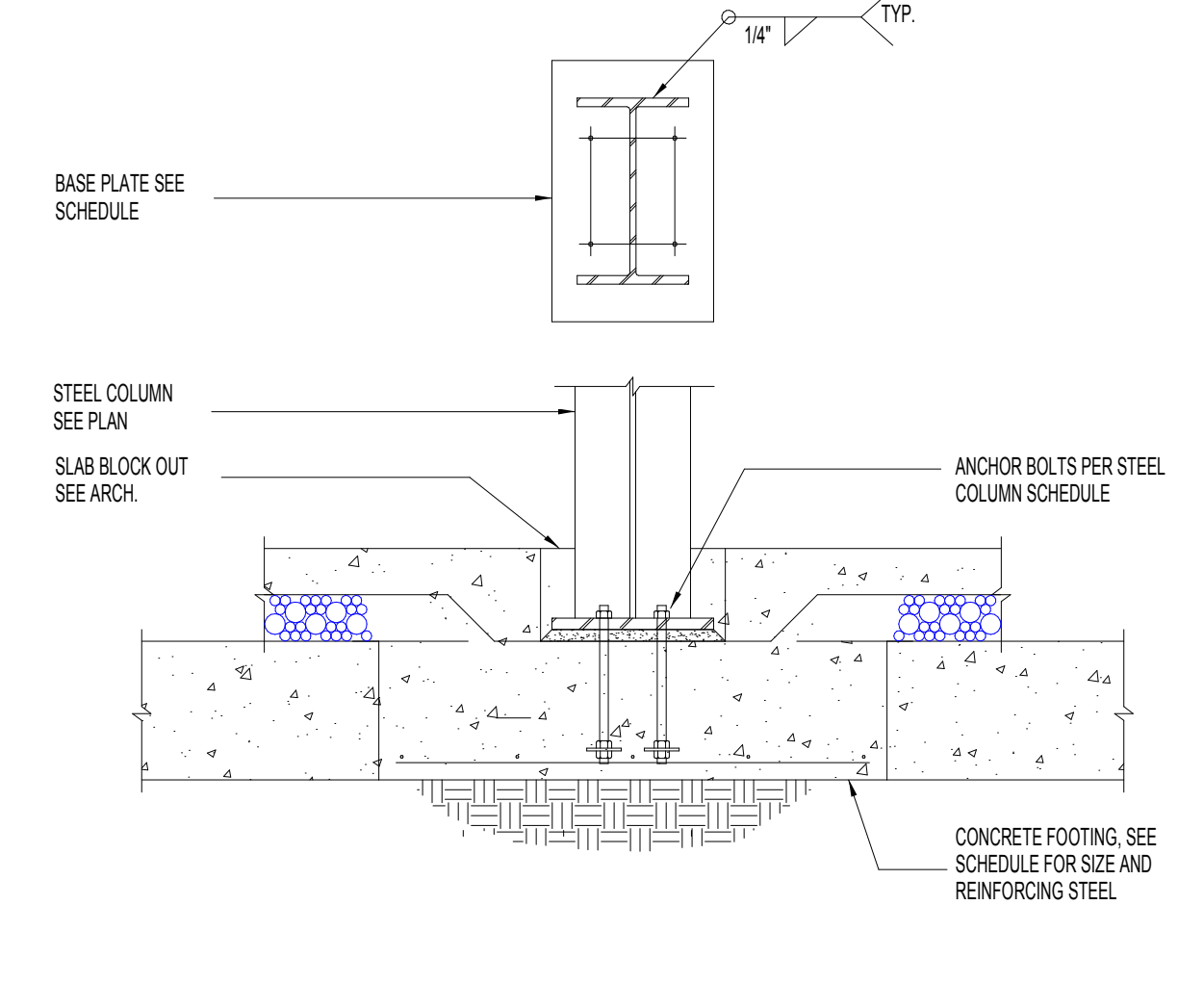
10 ELEVATOR FOUNDATION WALL AND FOOTING DETAIL

NO SCALE



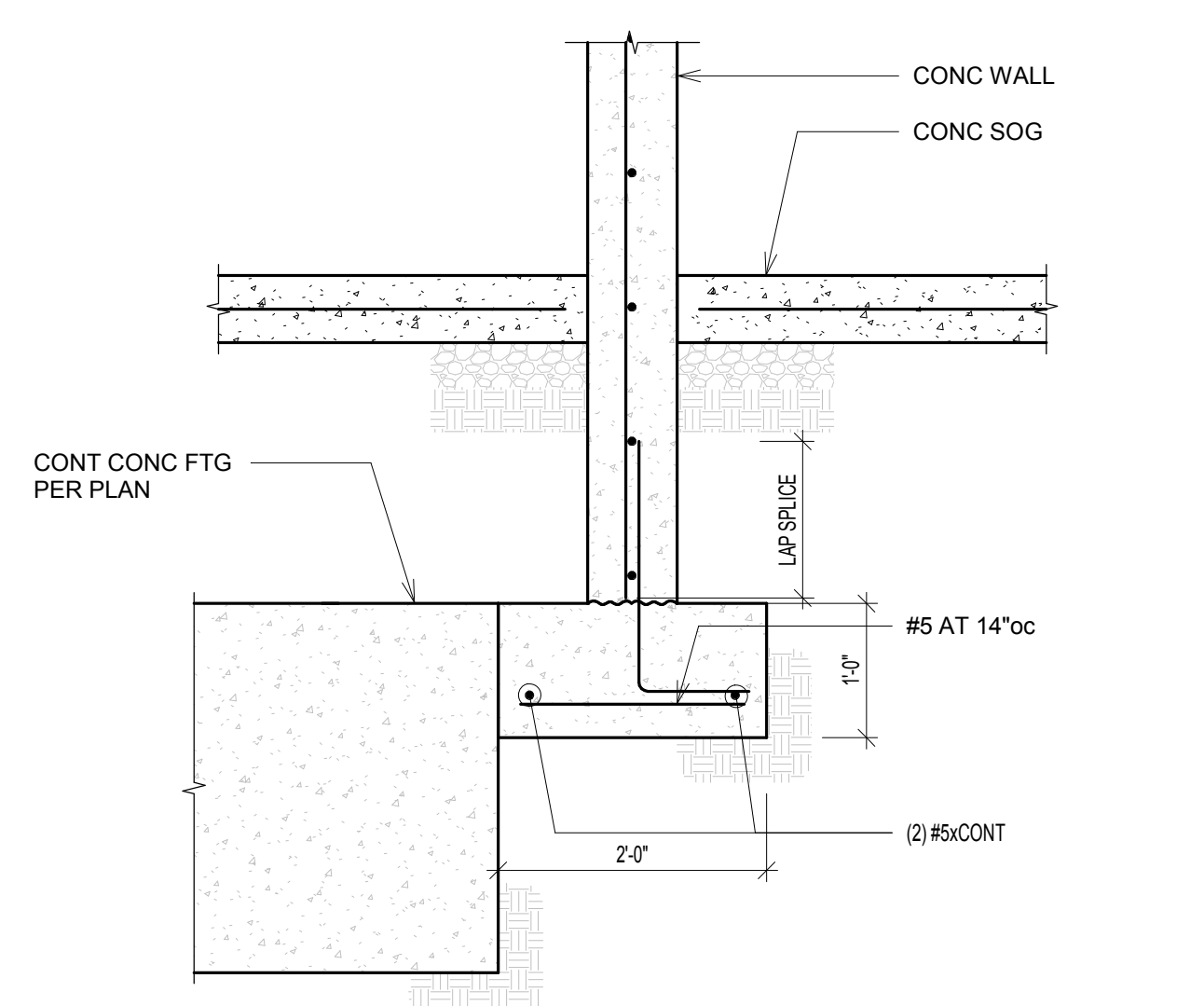
11 BOTTOM OF WINDOW SUPPORT MEMBER CONNECTION

NO SCALE



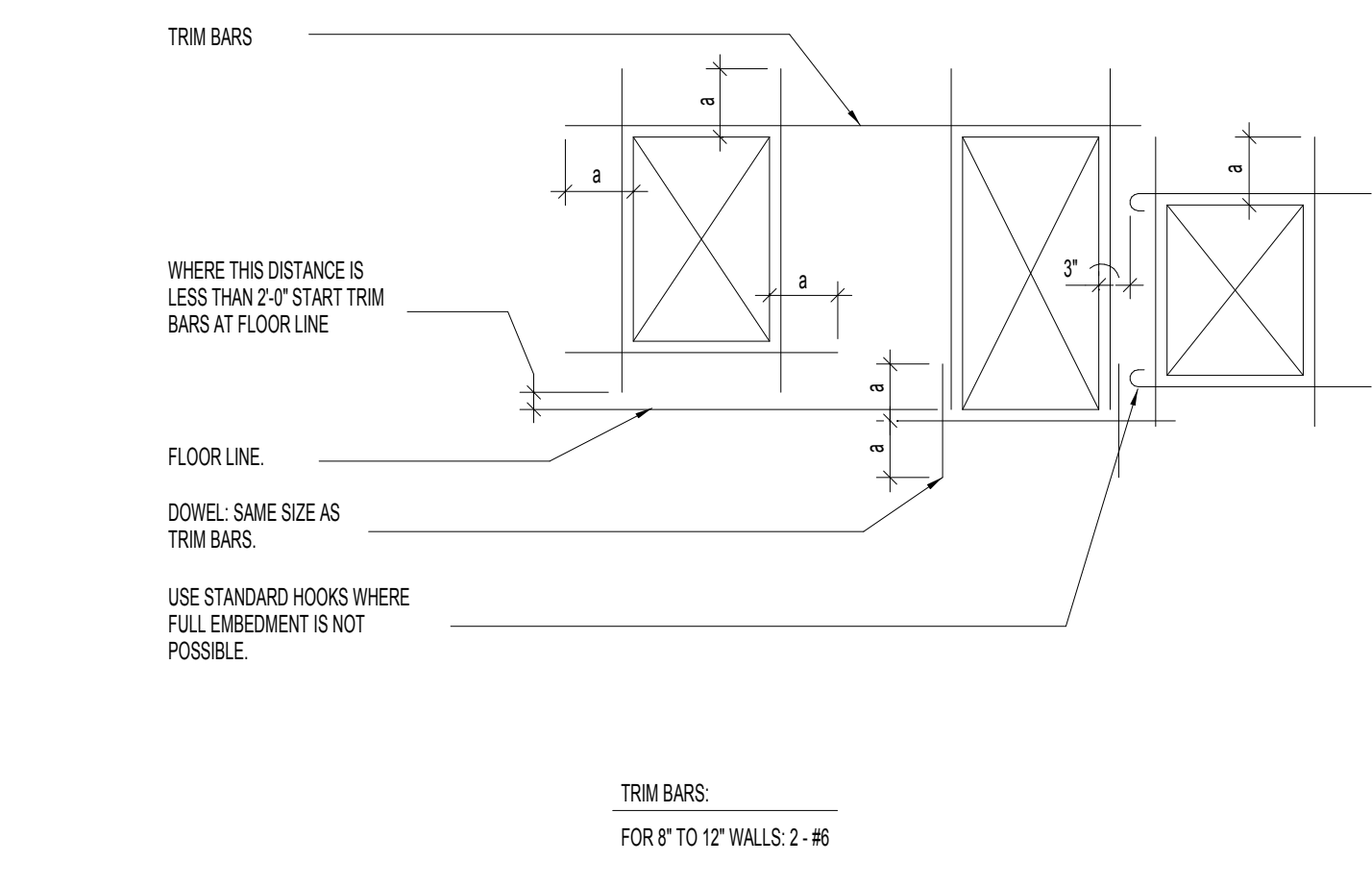
12 STEEL COLUMN TO FOOTING DETAIL

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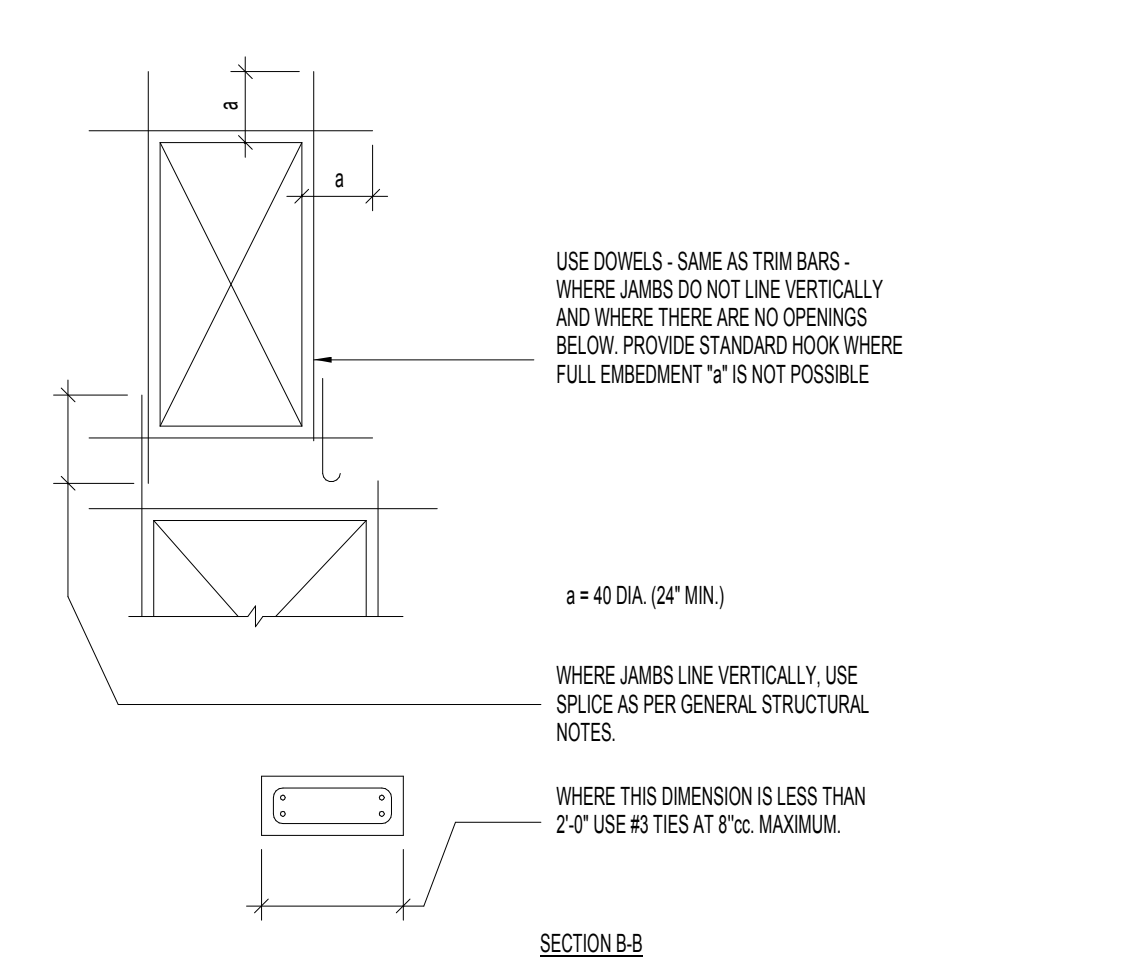


13 NON-BEARING WALL FOOTING DETAIL

3/4\"/>

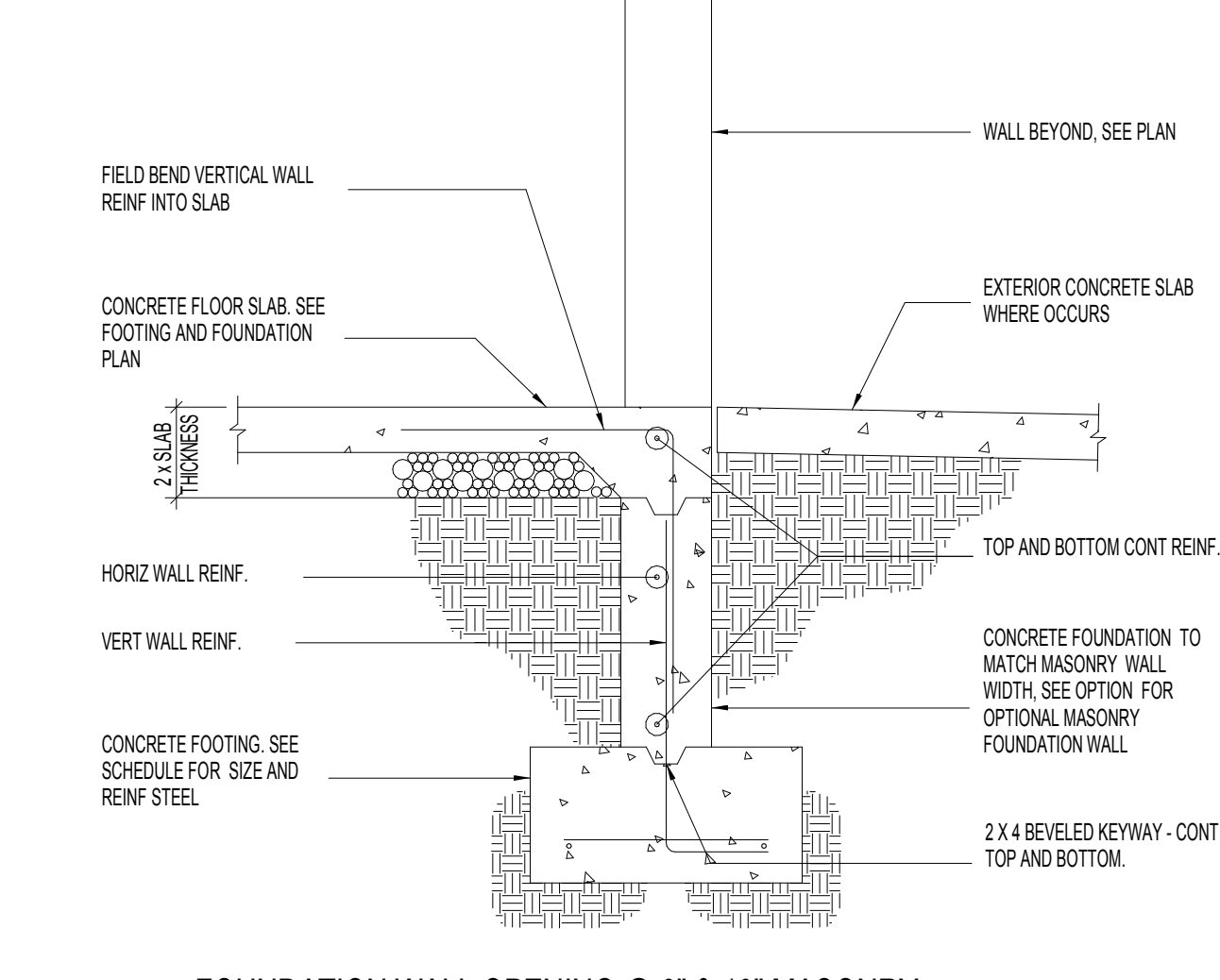


6 TYP. DETAILS OF TRIM BARS AROUND MISCELLANEOUS CONC. WALL OPENINGS. U.N.O.



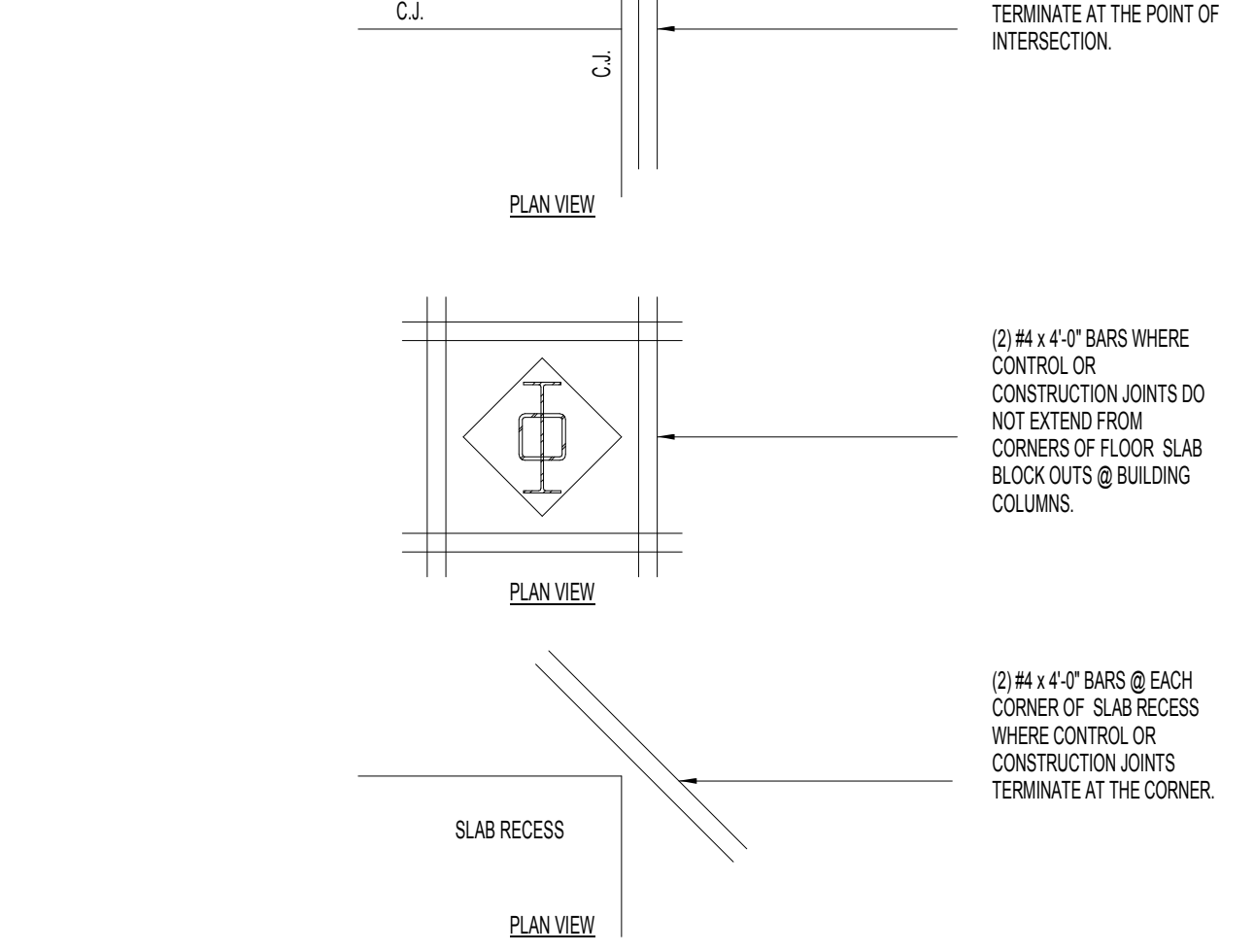
7 CONST./CONTROL JT. IN CONC. S.O.G.

NO SCALE



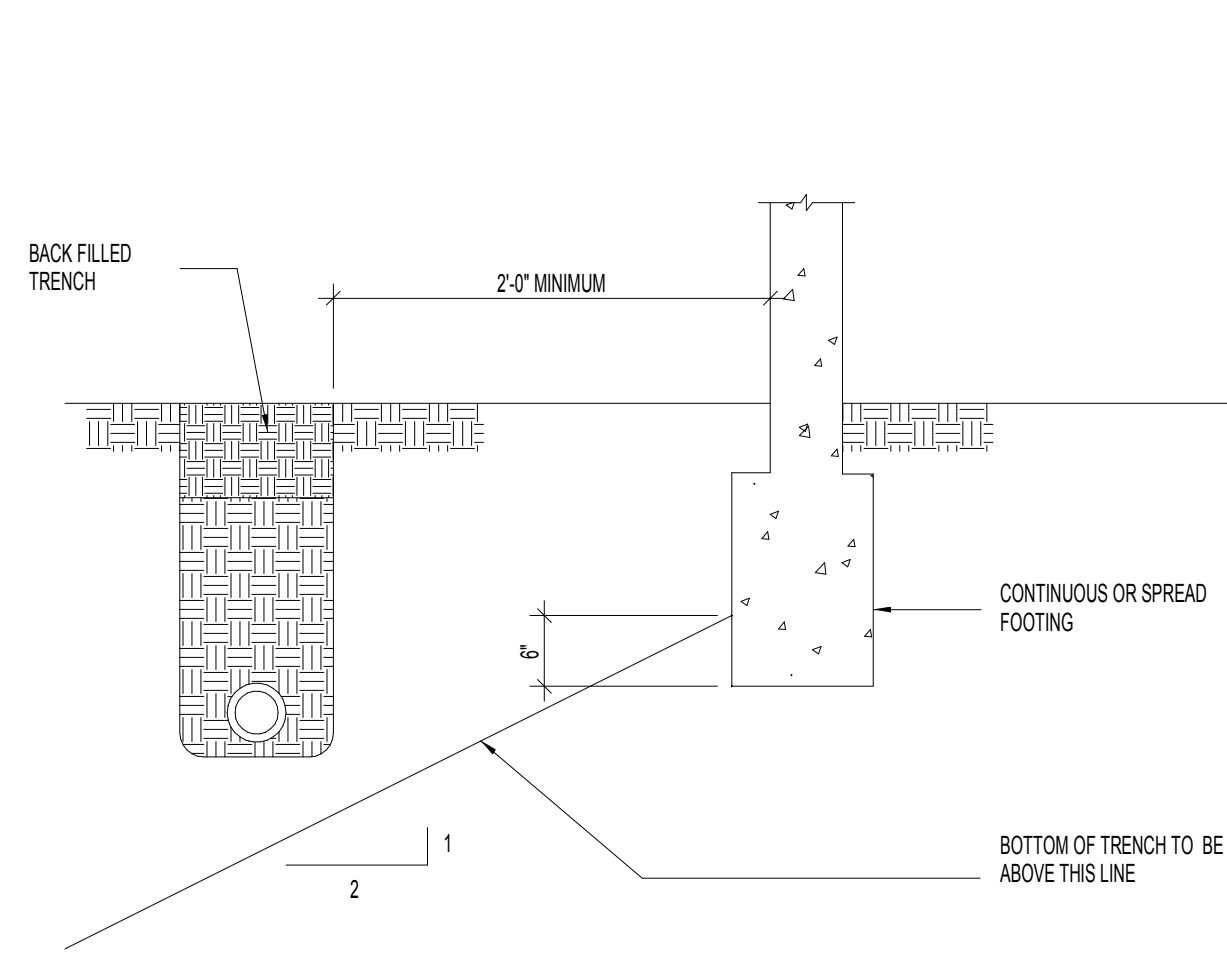
8 FOUNDATION WALL OPENING @ 8\"/>

NO SCALE



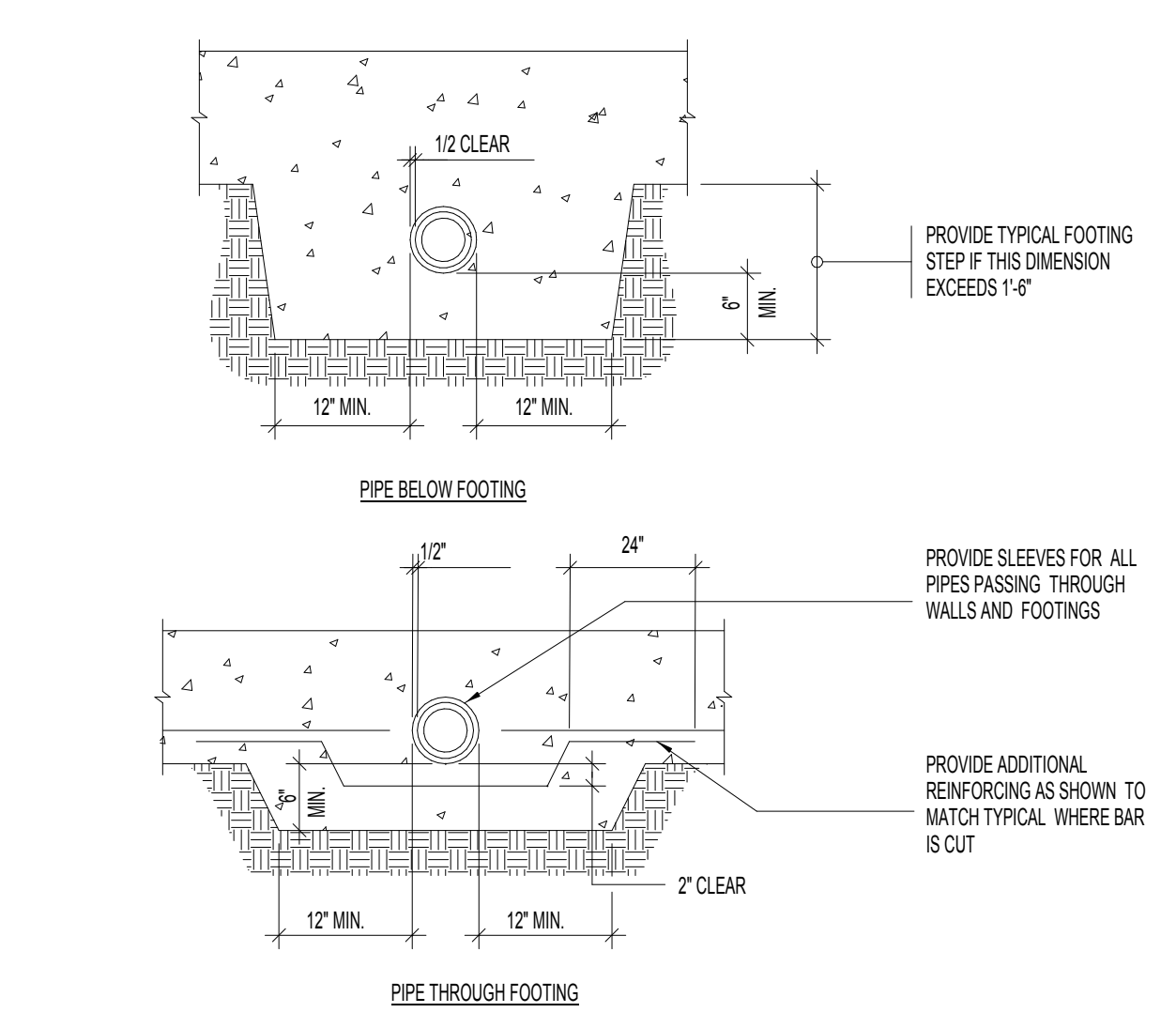
9 ADDITIONAL SLAB REINFORCING DETAIL

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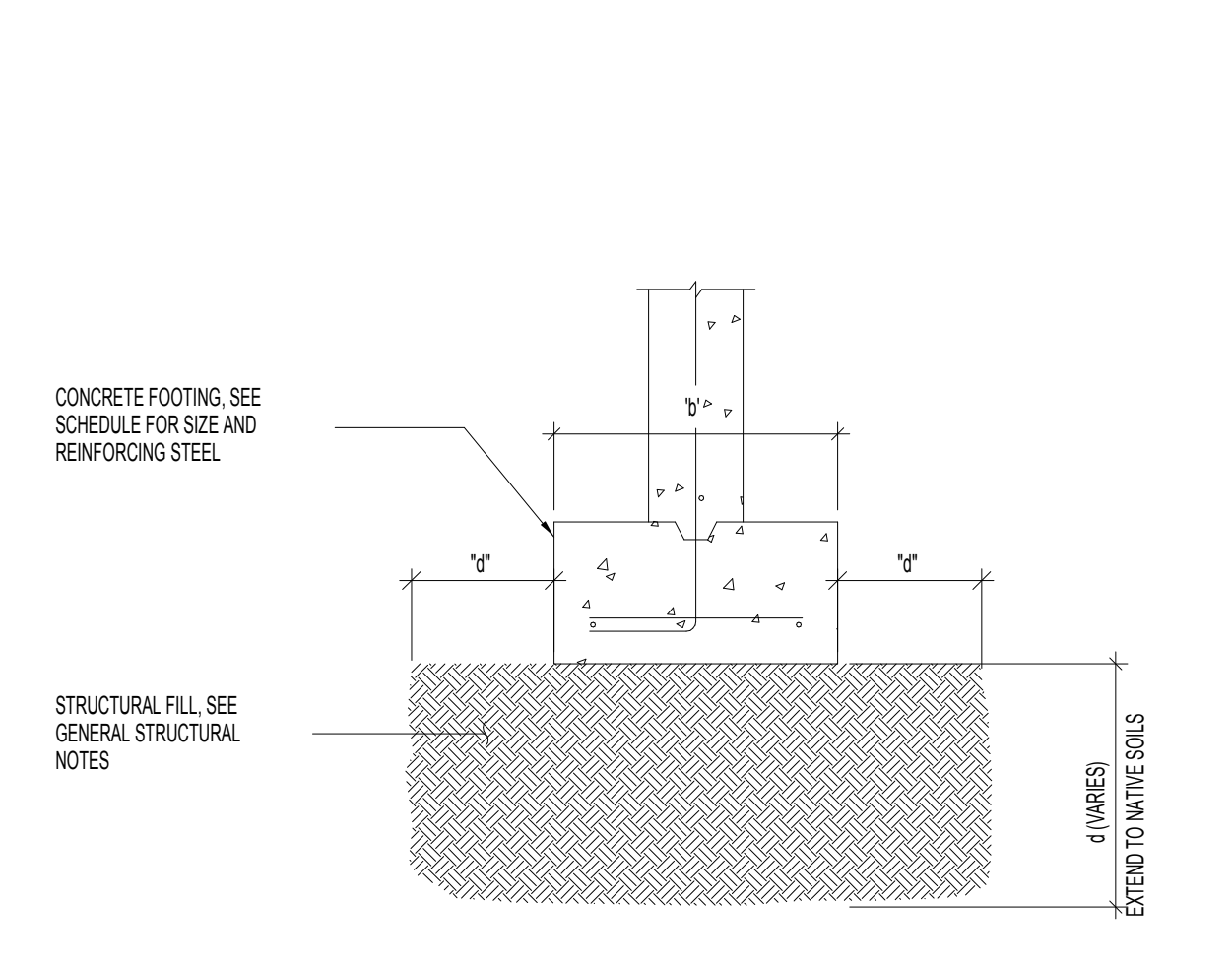
1 PIPE PARALLEL TO FOOTING DETAIL

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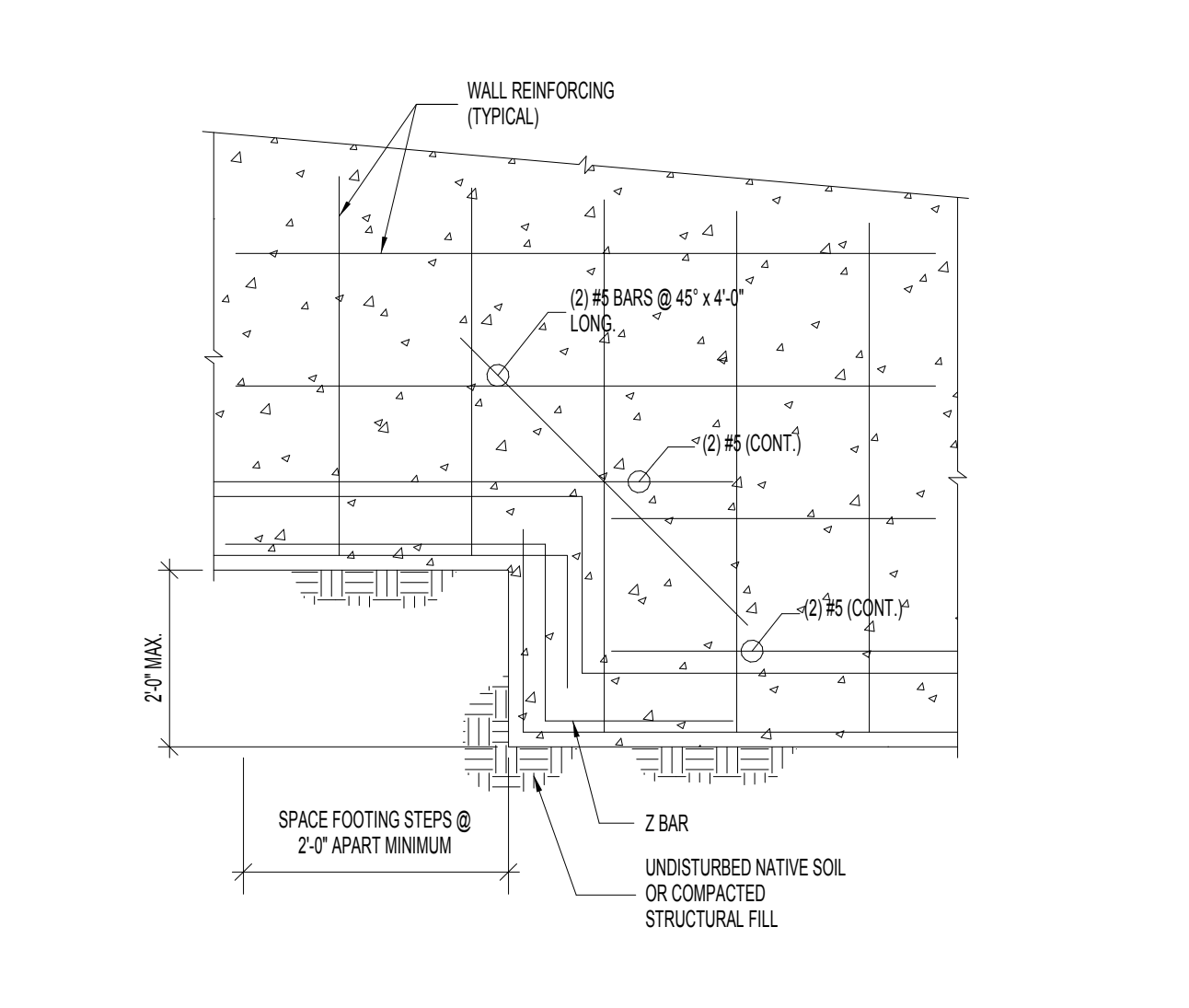
2 PIPE PERPENDICULAR TO FOOTING DETAIL

NO SCALE



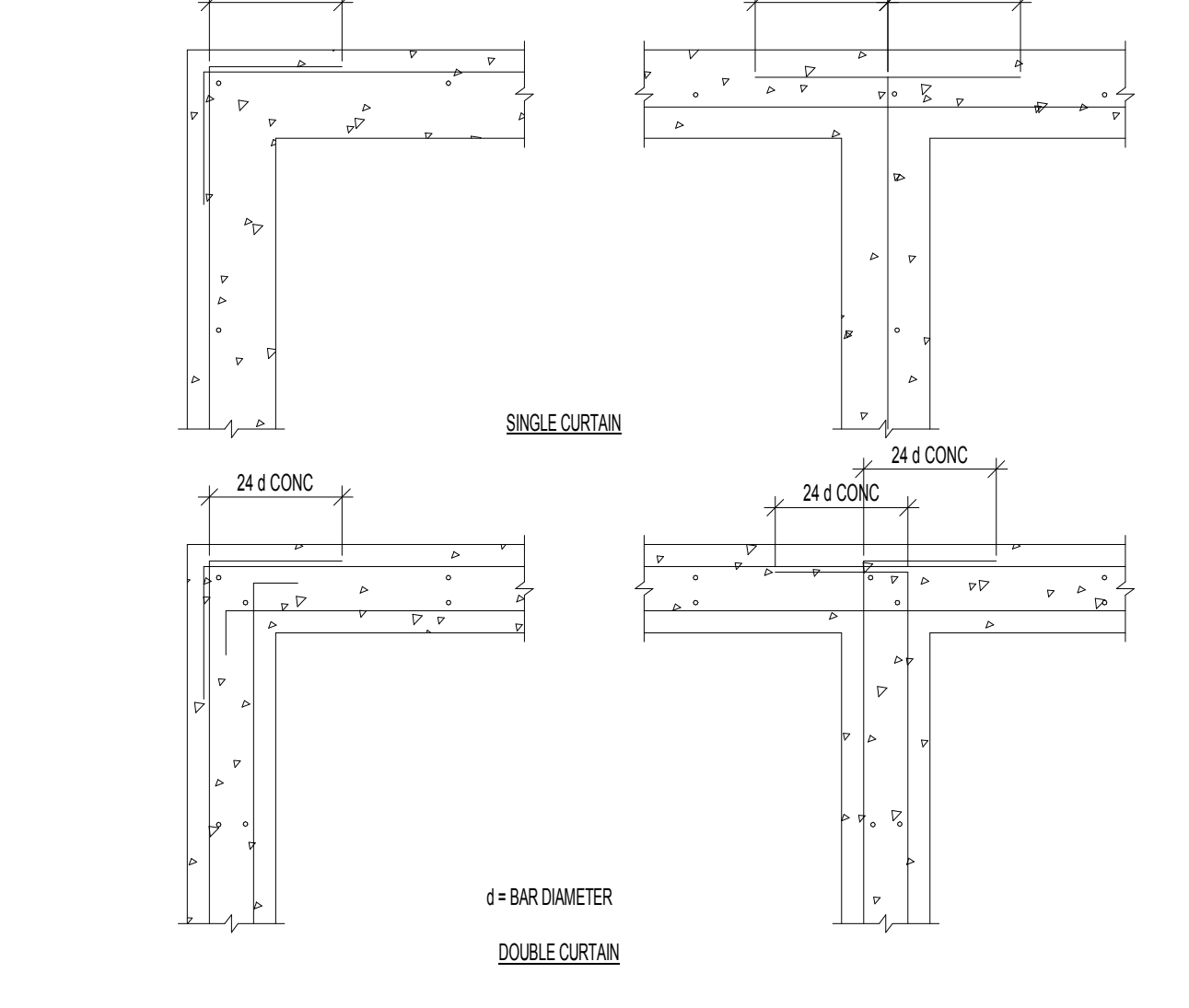
3 STRUCTURAL FILL DETAIL

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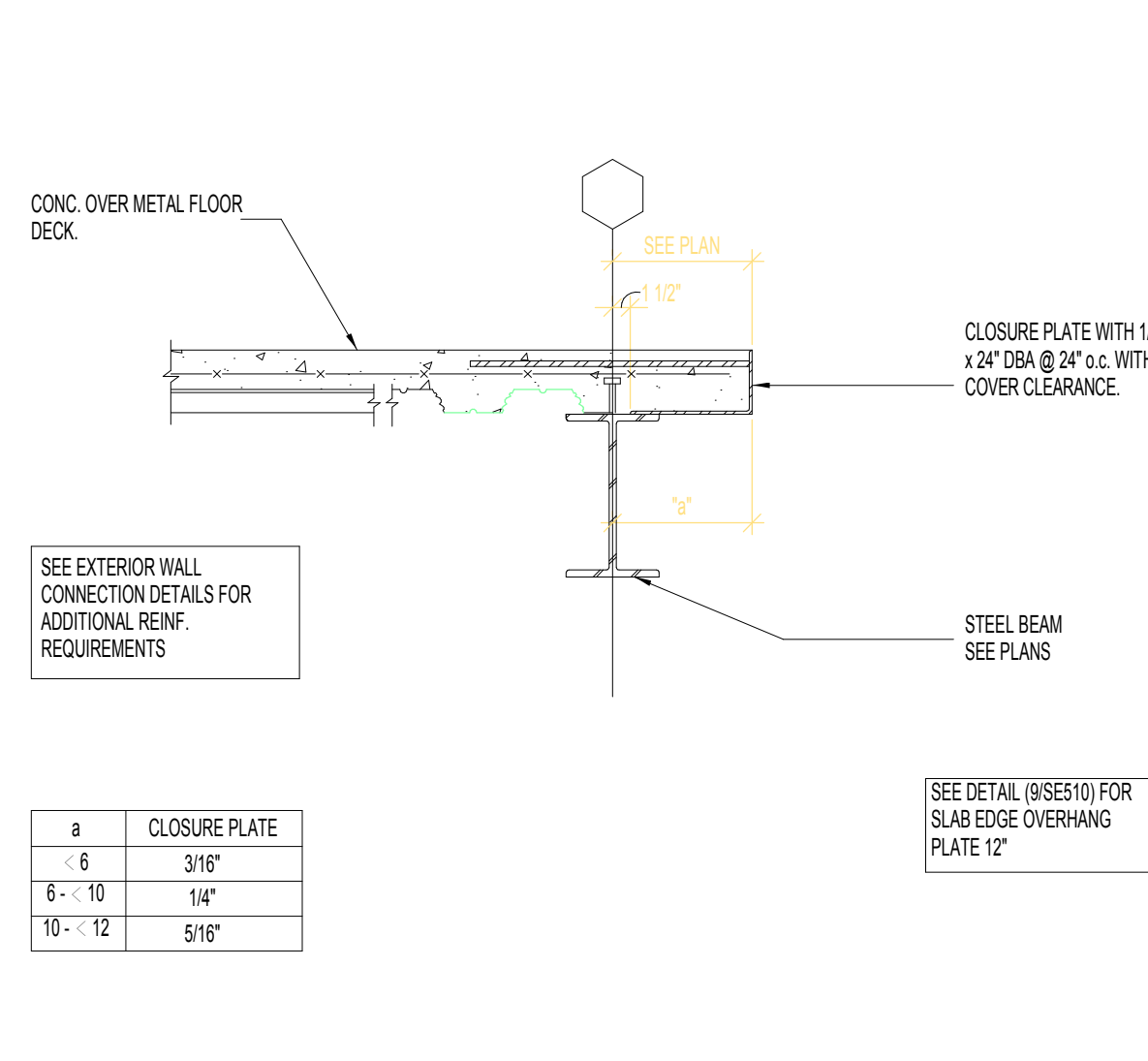
4 FOOTING STEP DETAIL

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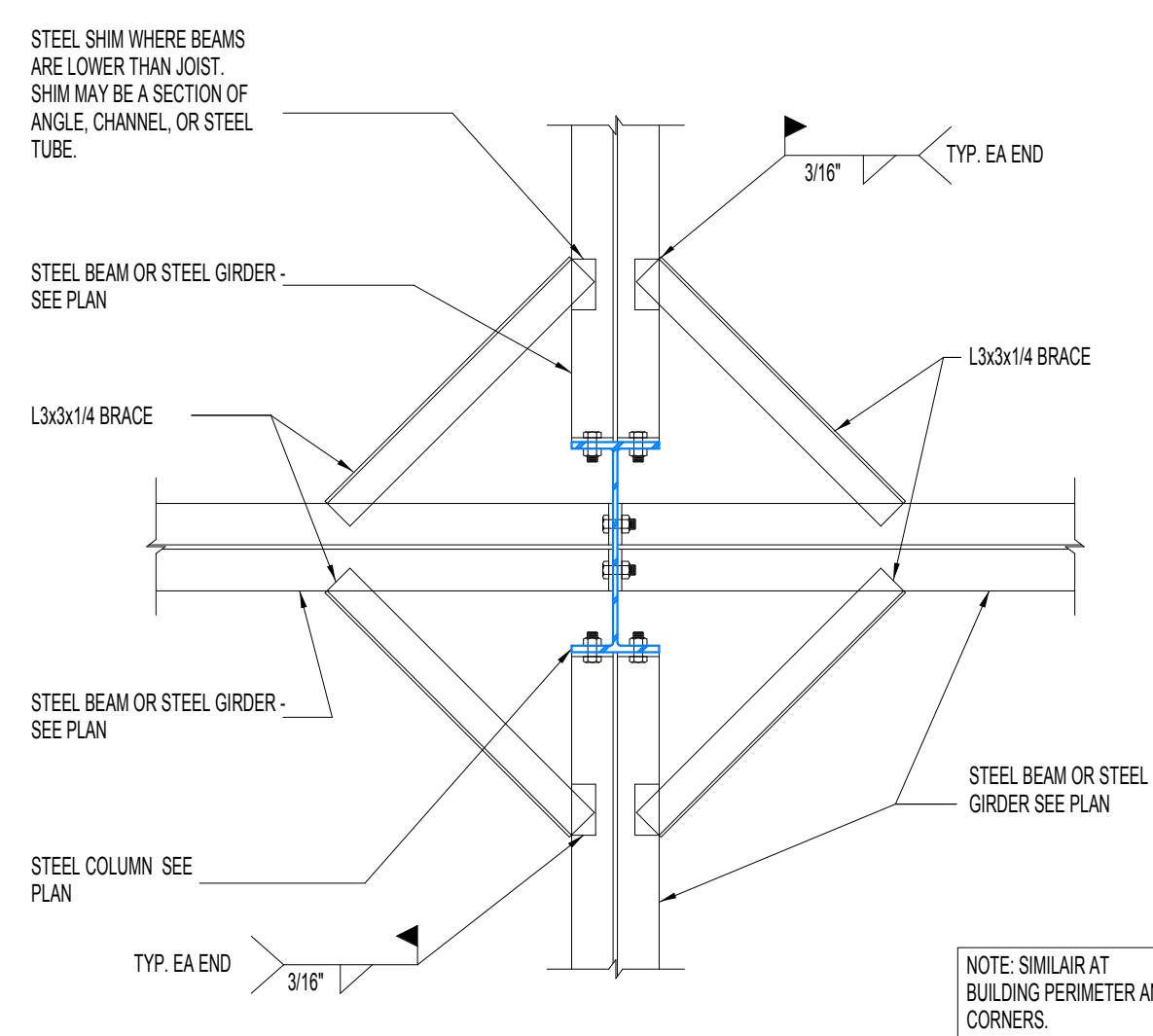


5 CONCRETE AND MASONRY WALL INTERSECTION REINFORCEMENT DETAIL

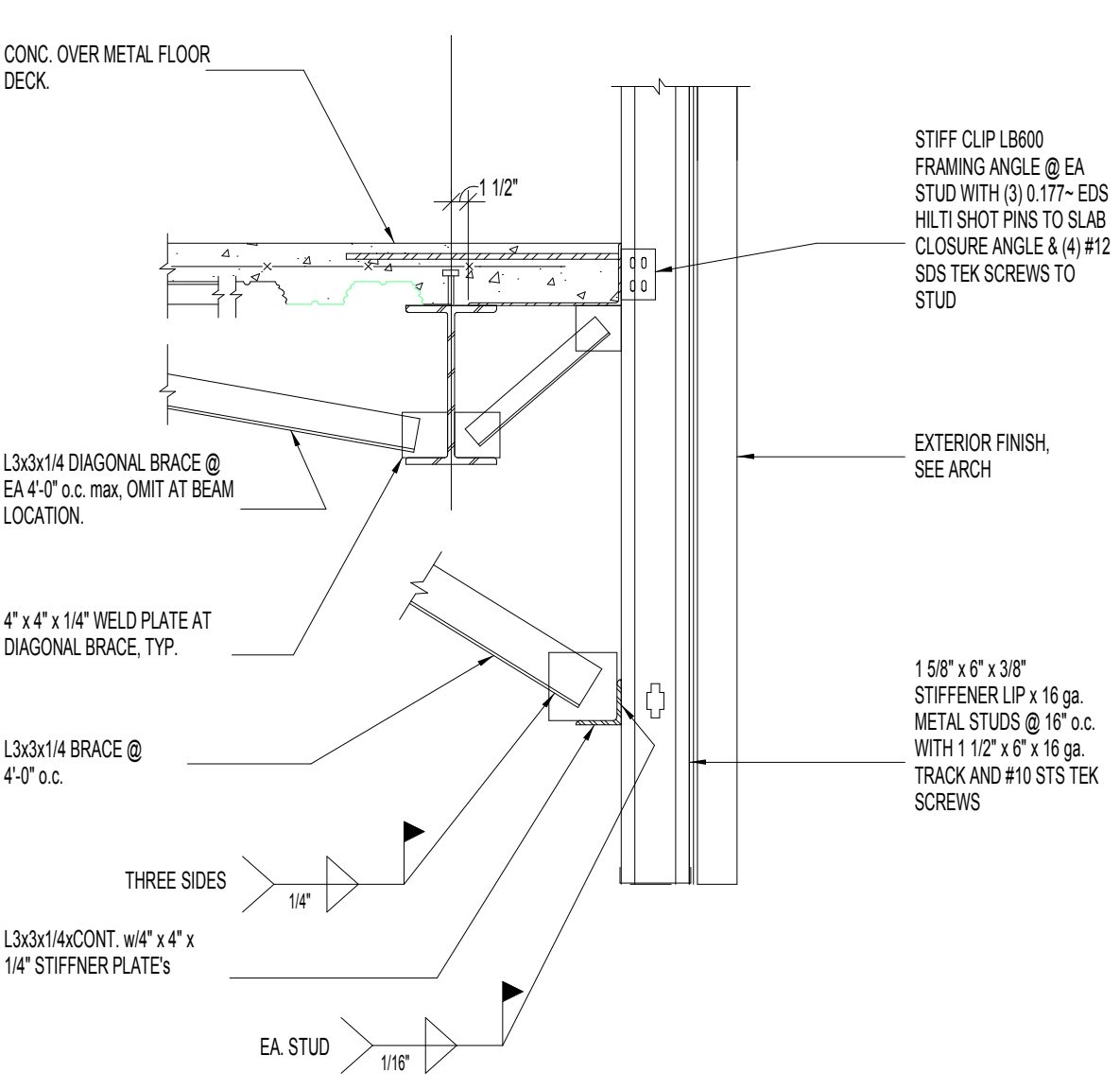
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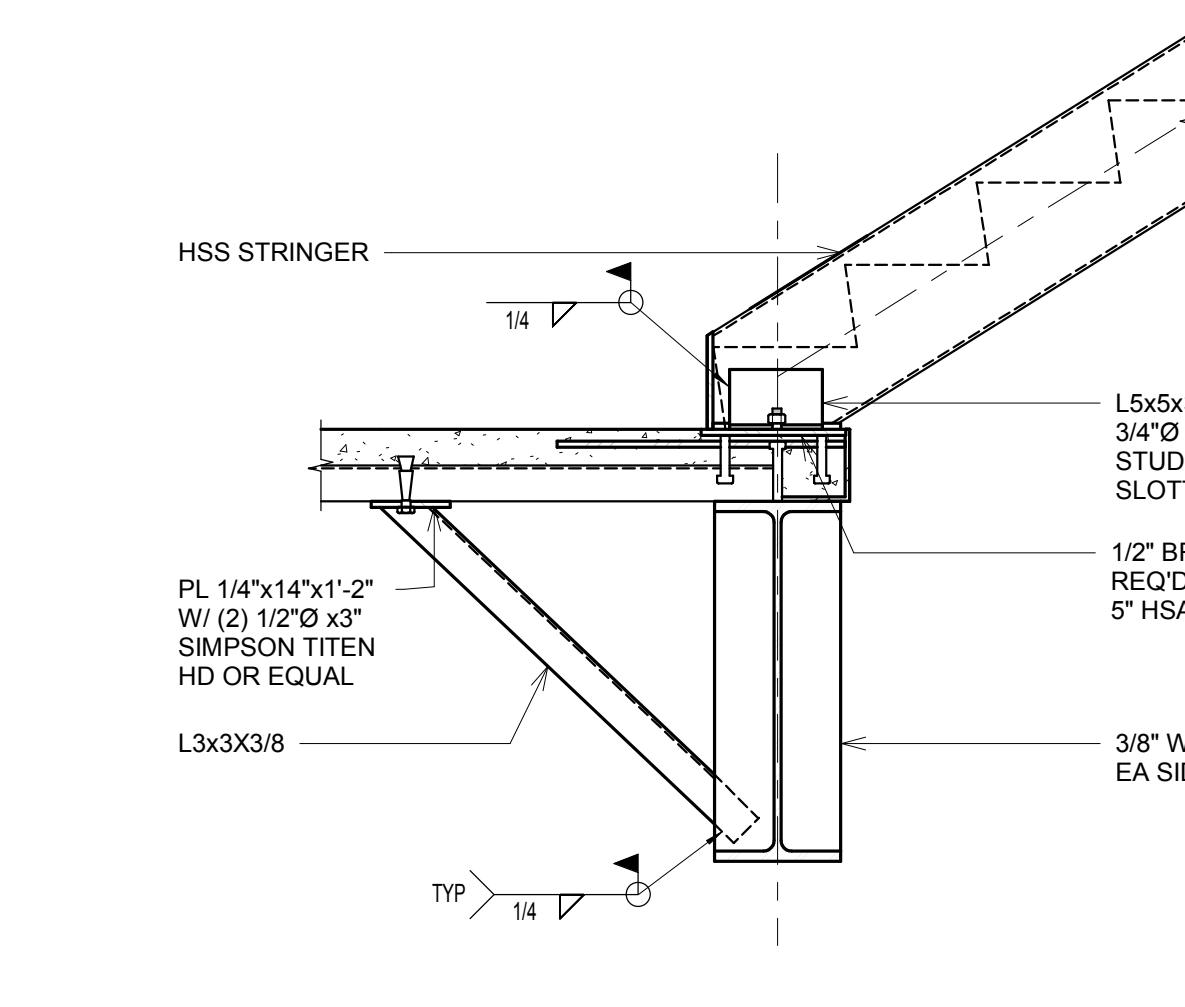
14 TYPICAL EDGE CONDITION AT FLOOR NO SCALE



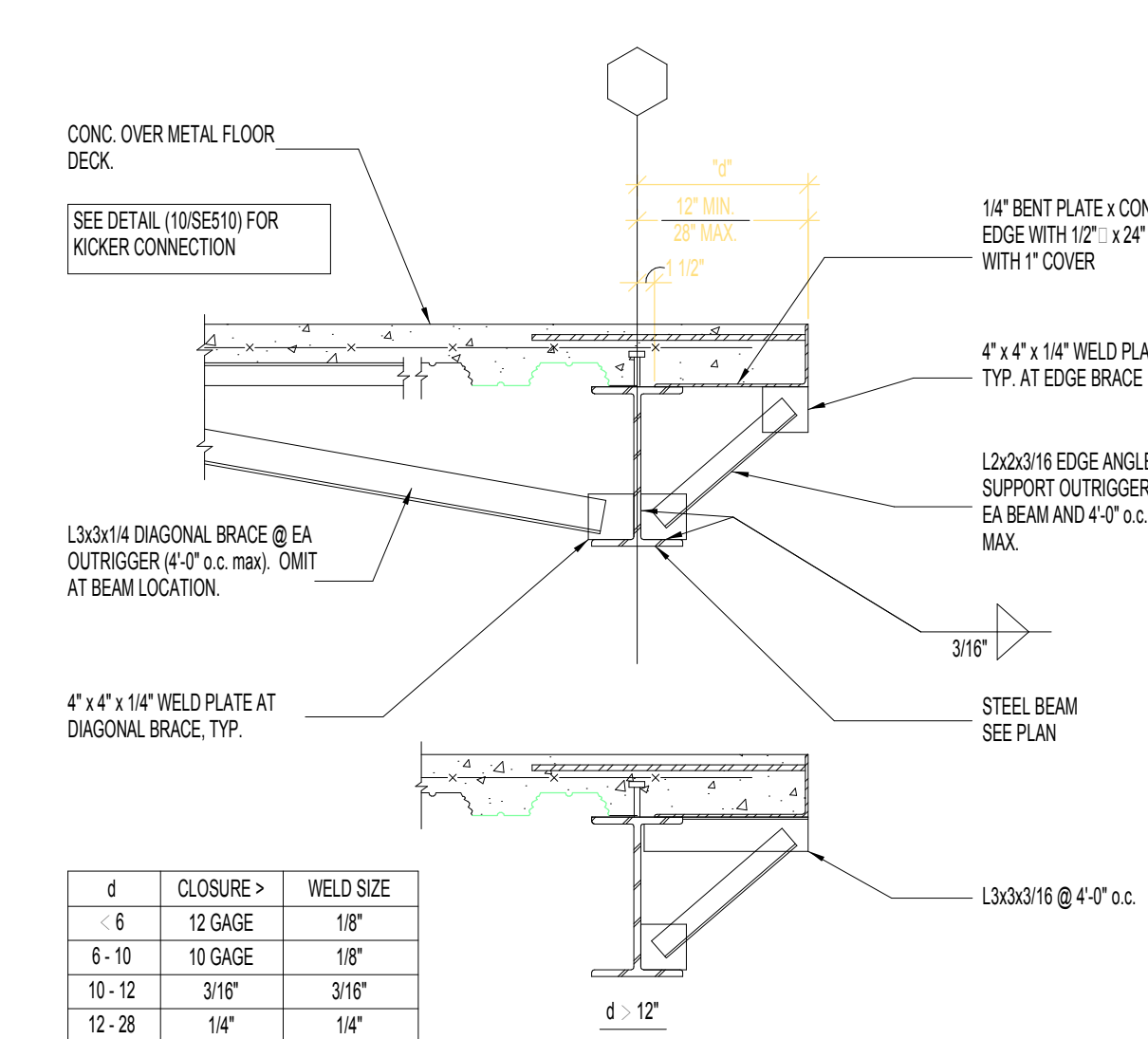
9 TYPICAL DECK BEARING ANGLES AT COLUMNS NO SCALE



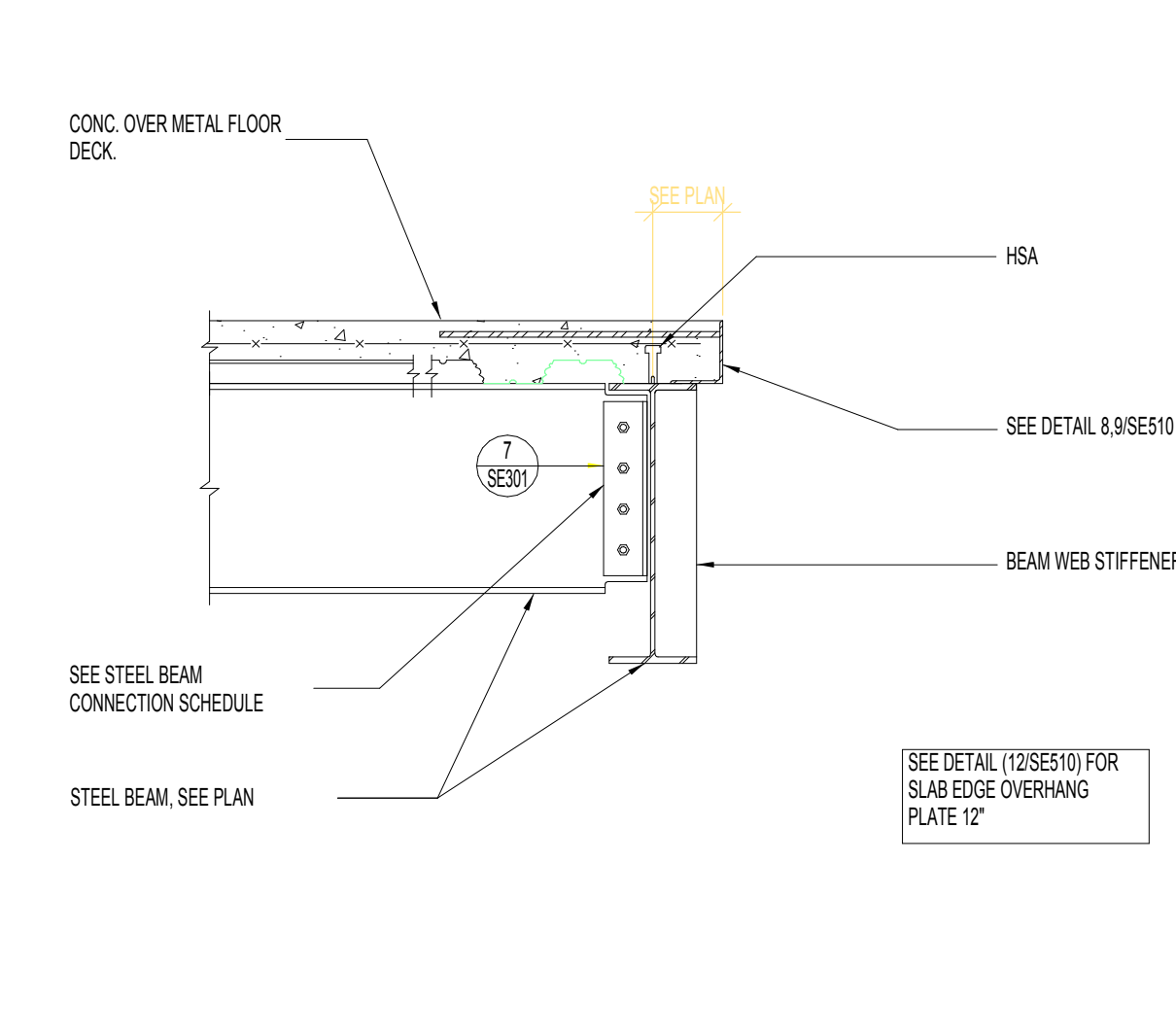
6 EXTERIOR WALL SYSTEM CONNECTION TO FLOOR NO SCALE



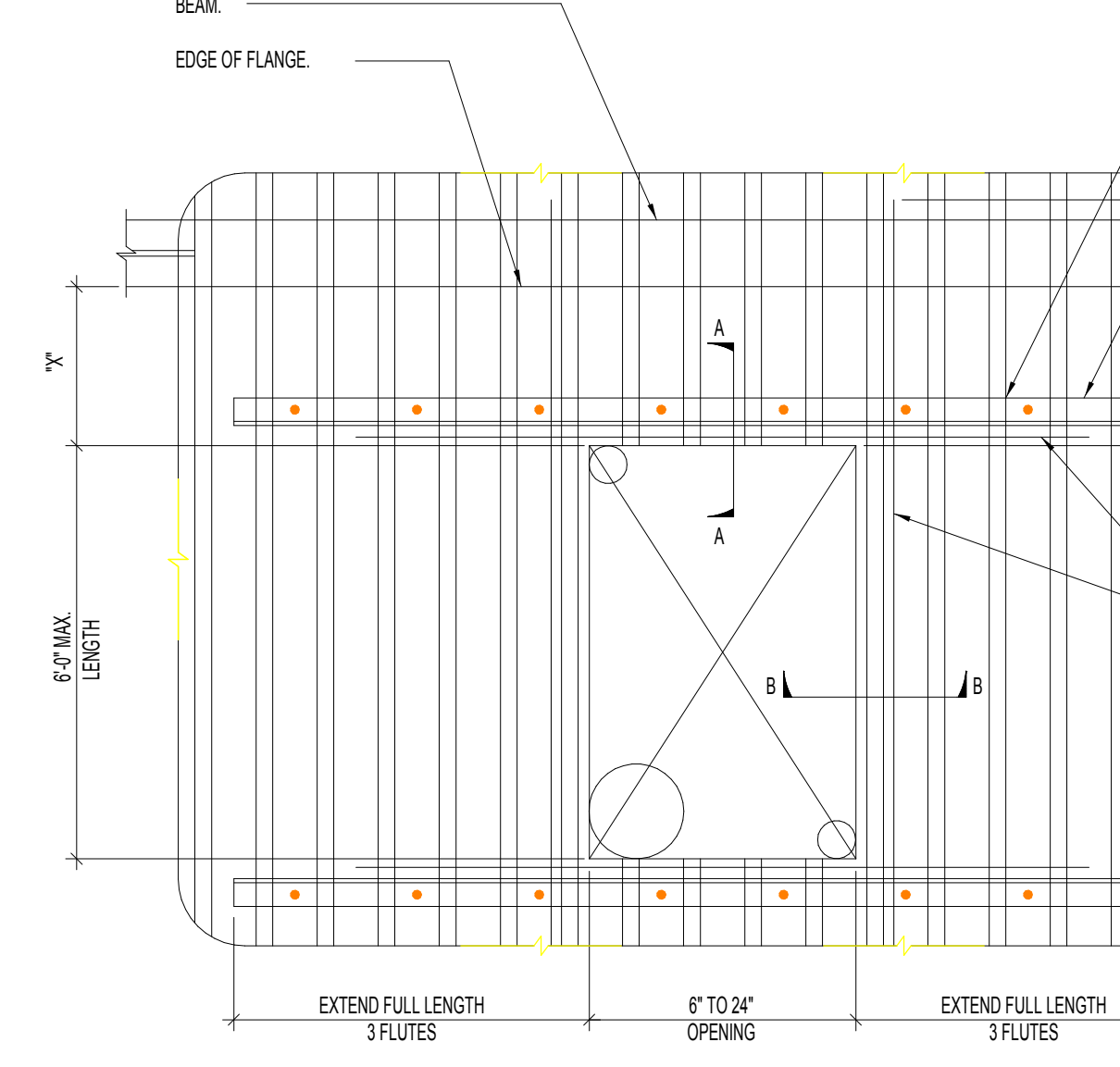
1 STAIR STRINGER AT STEEL BEAM (BOT) 3/4\"/>



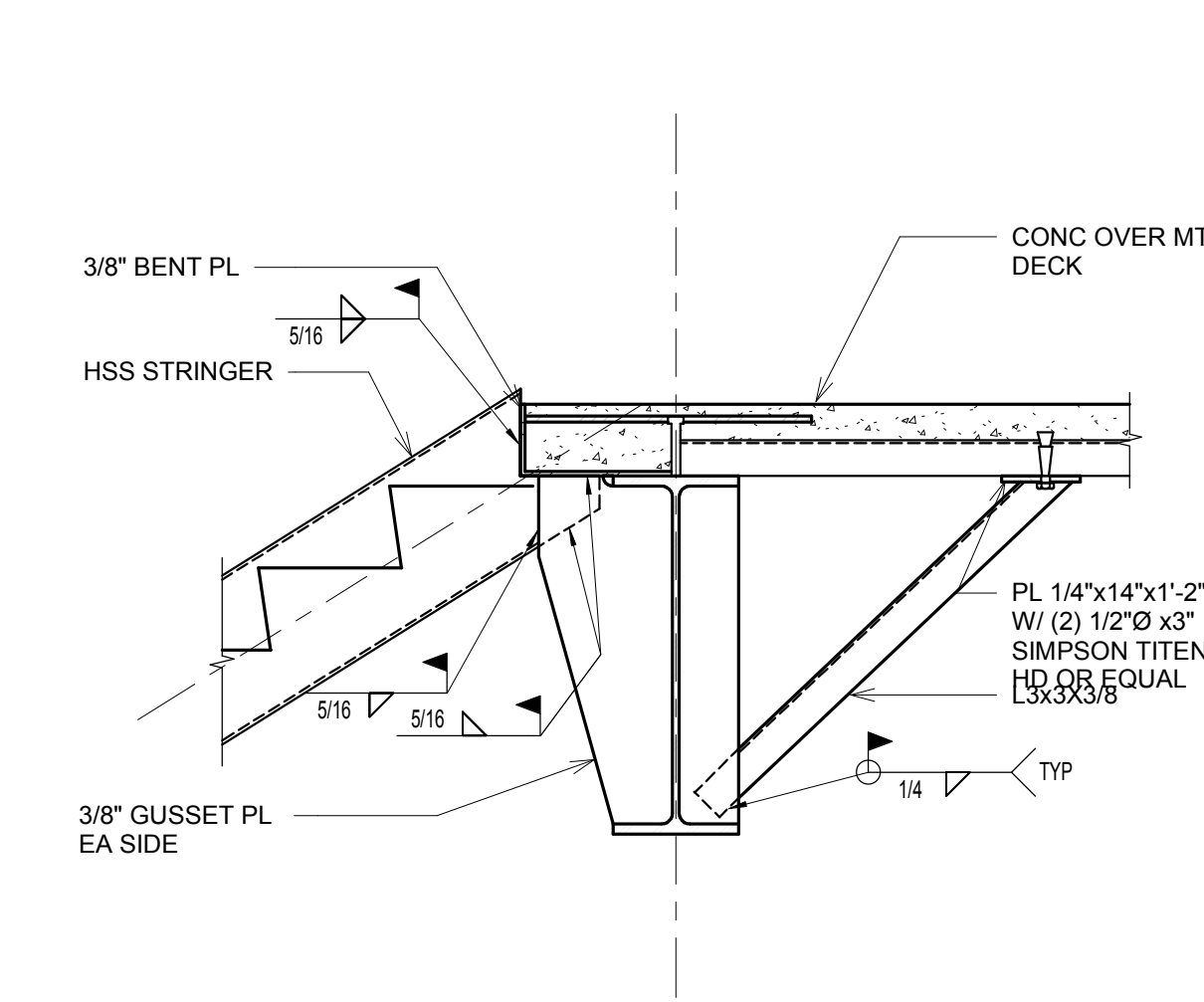
15 TYPICAL EDGE CONDITION AT FLOOR (OVER 12\"/>



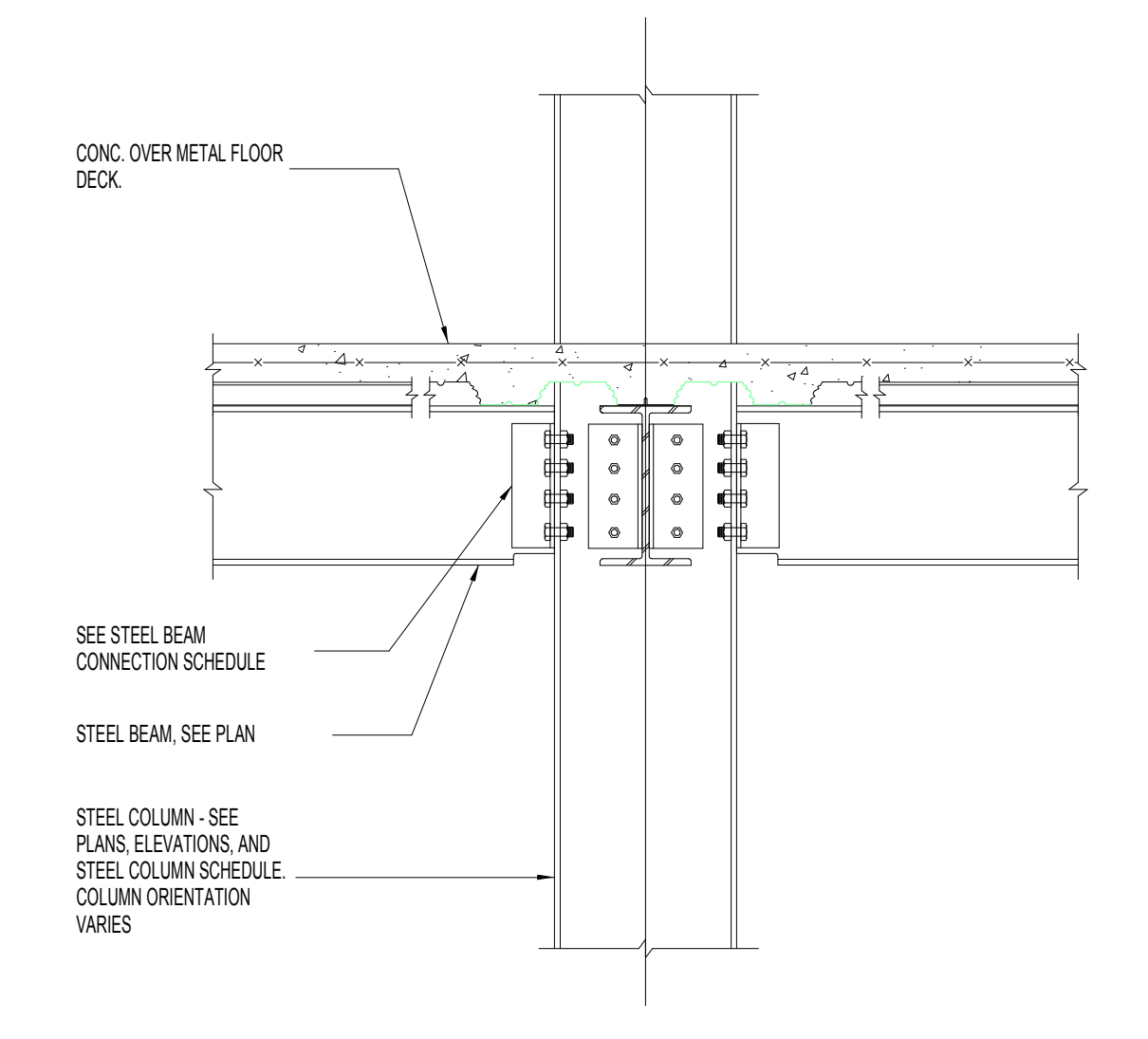
10 TYPICAL EDGE DETAIL NO SCALE



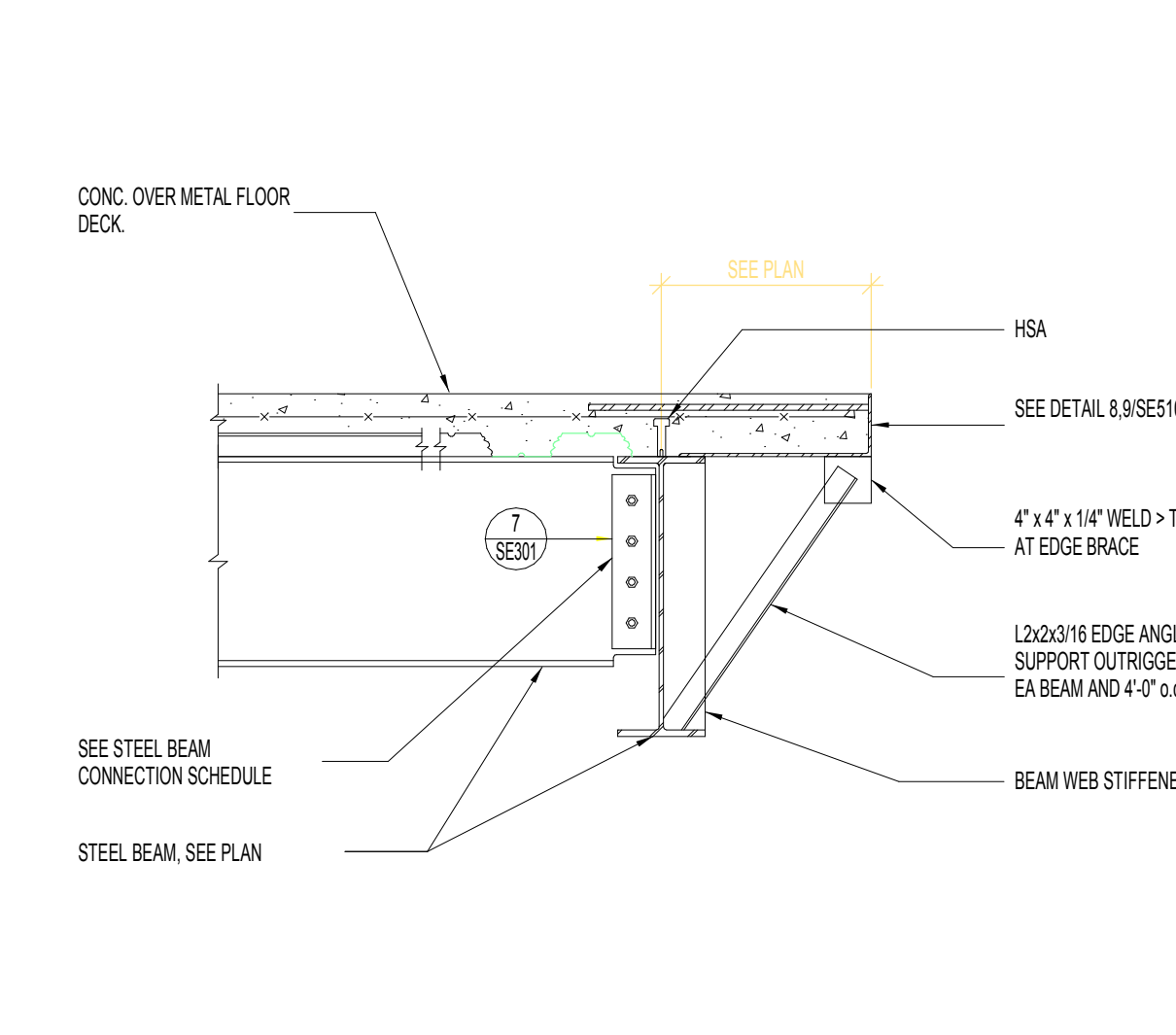
7 SMALL OPENING IN FLOOR SLAB NO SCALE



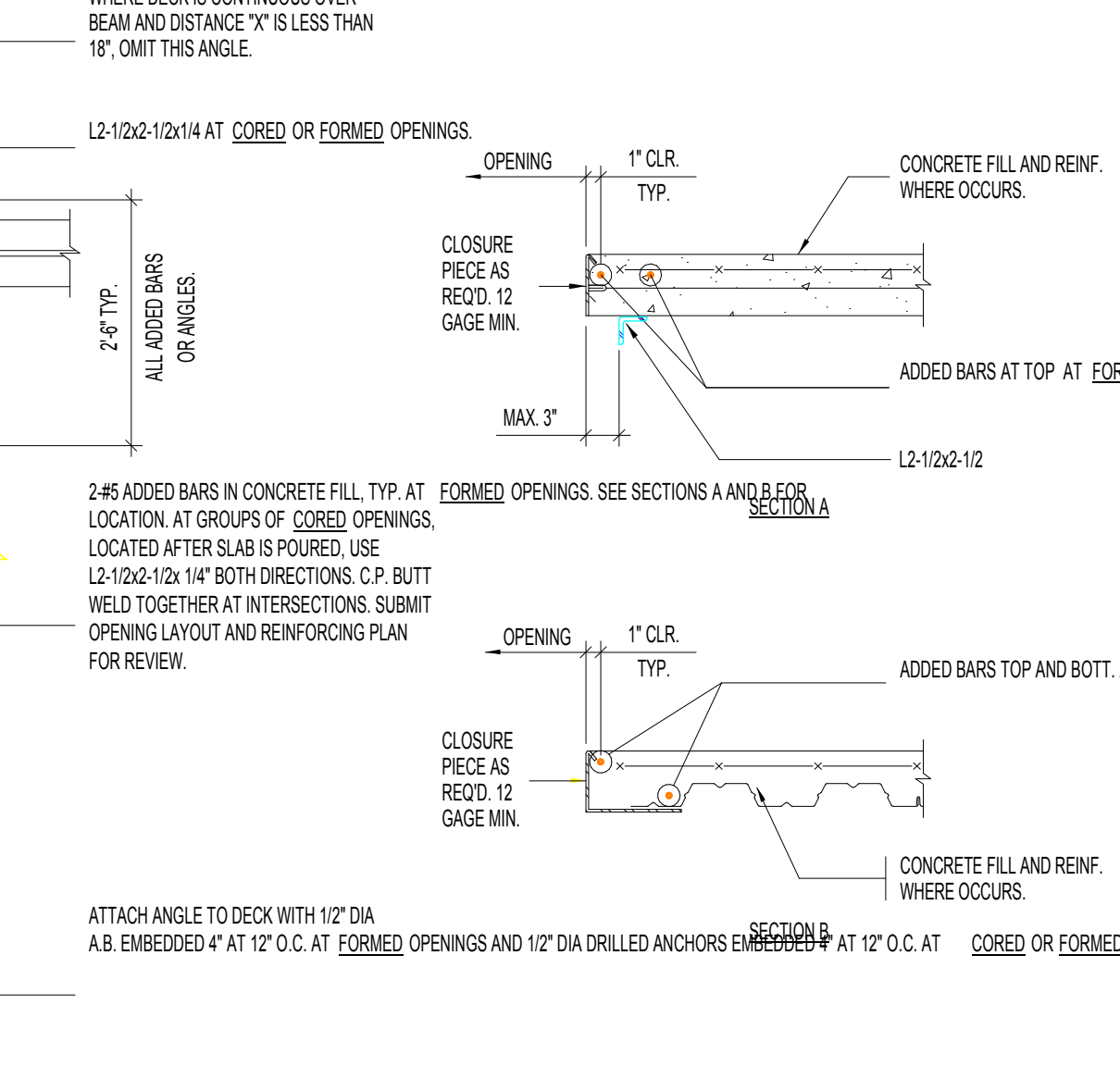
2 STAIR STRINGER AT STEEL BEAM (TOP) 3/4\"/>



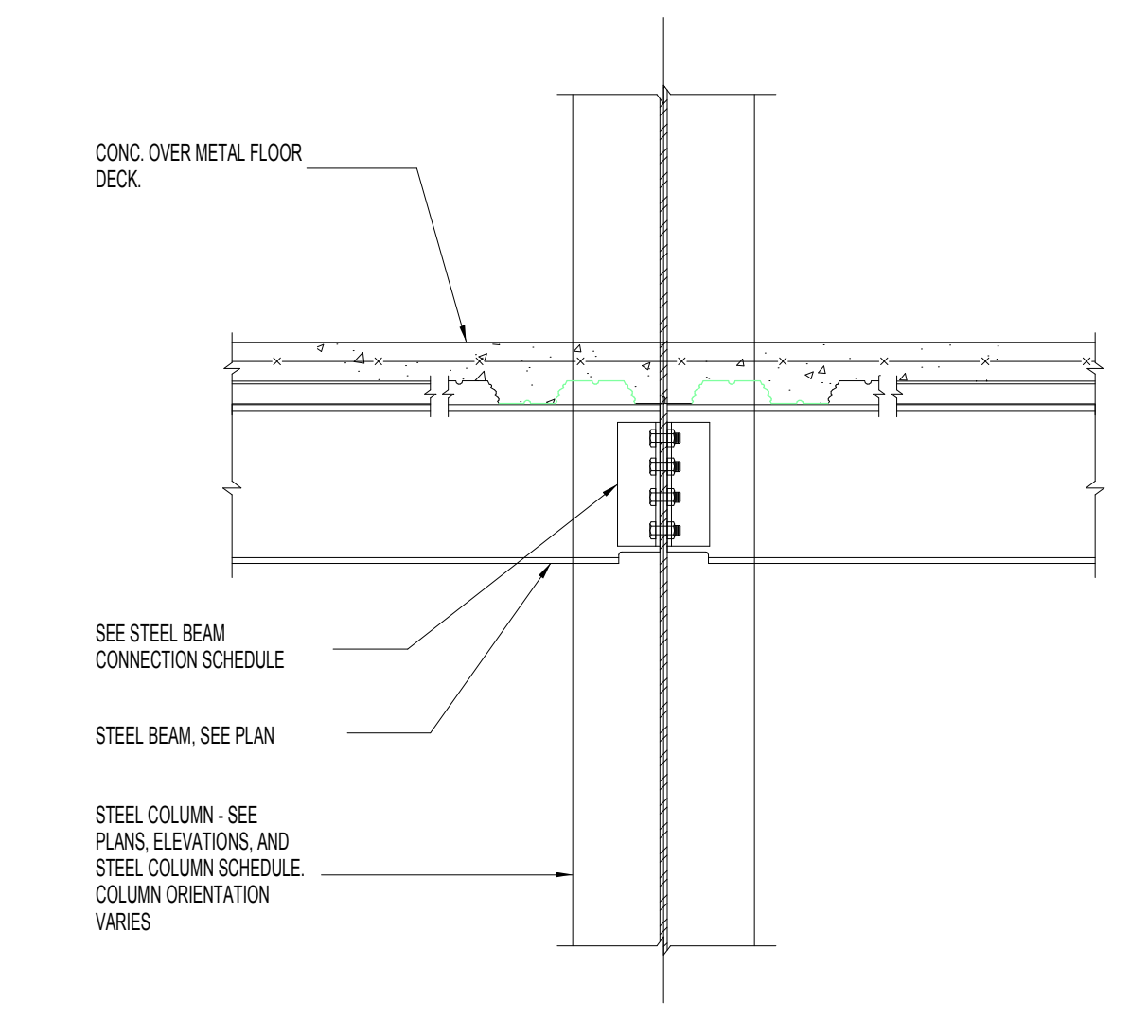
16 TYPICAL BOLTED CONNECTION TO COLUMN FLANGE, BEAM TWO SIDES. NO SCALE



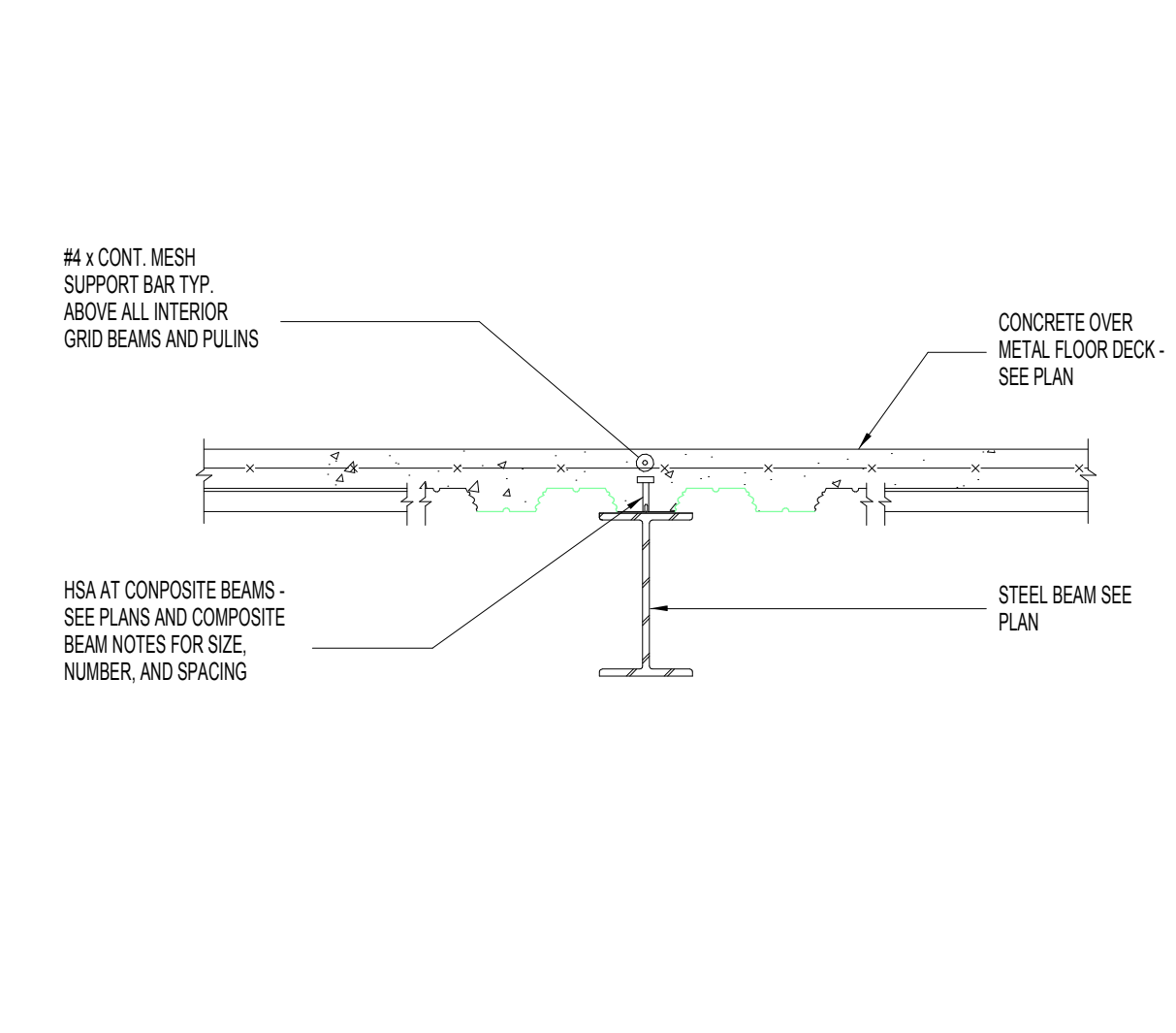
11 TYPICAL EDGE DETAIL (OVER 12\"/>



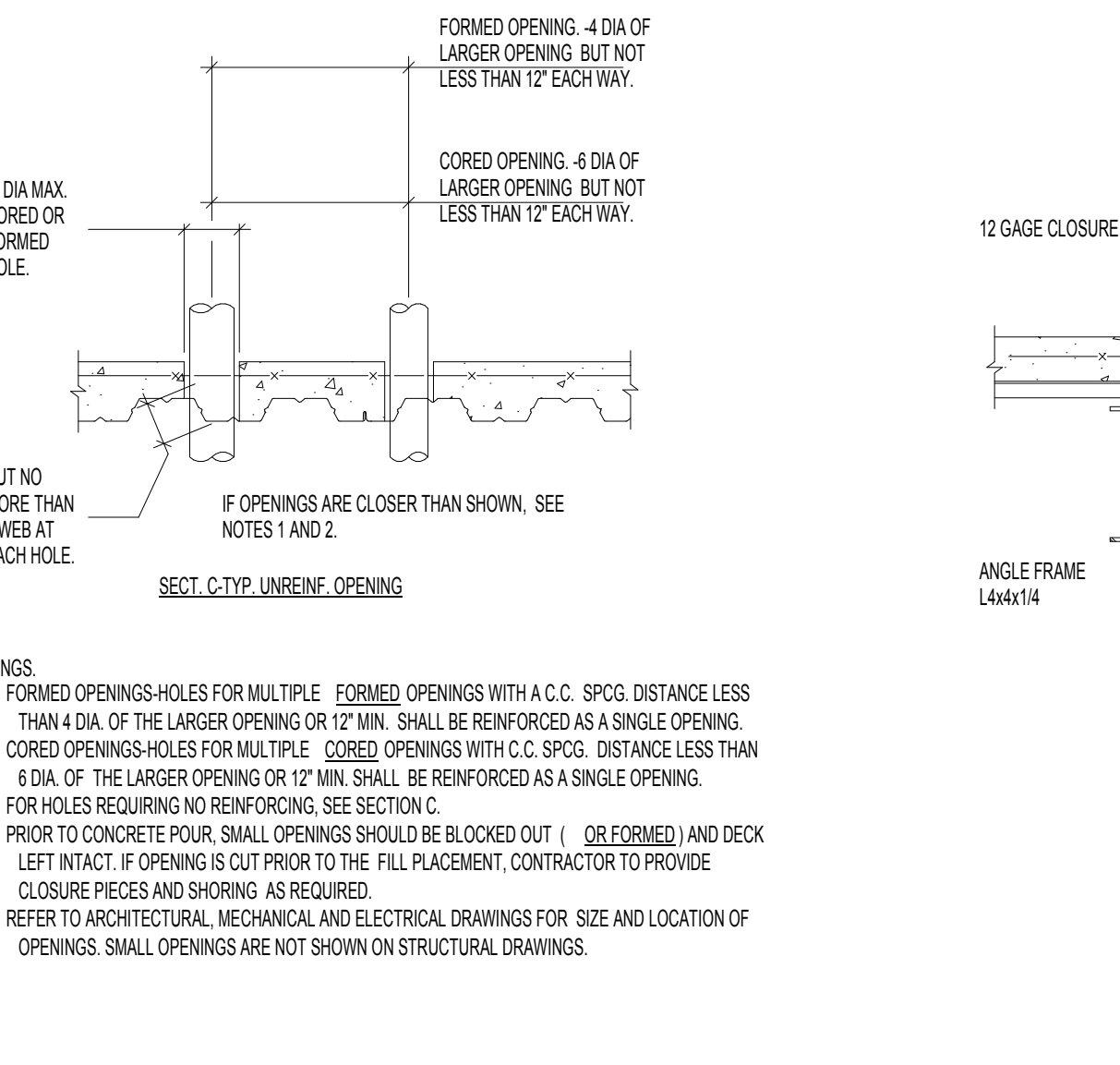
3 TYPICAL CLOSURE PLATE 3/4\"/>



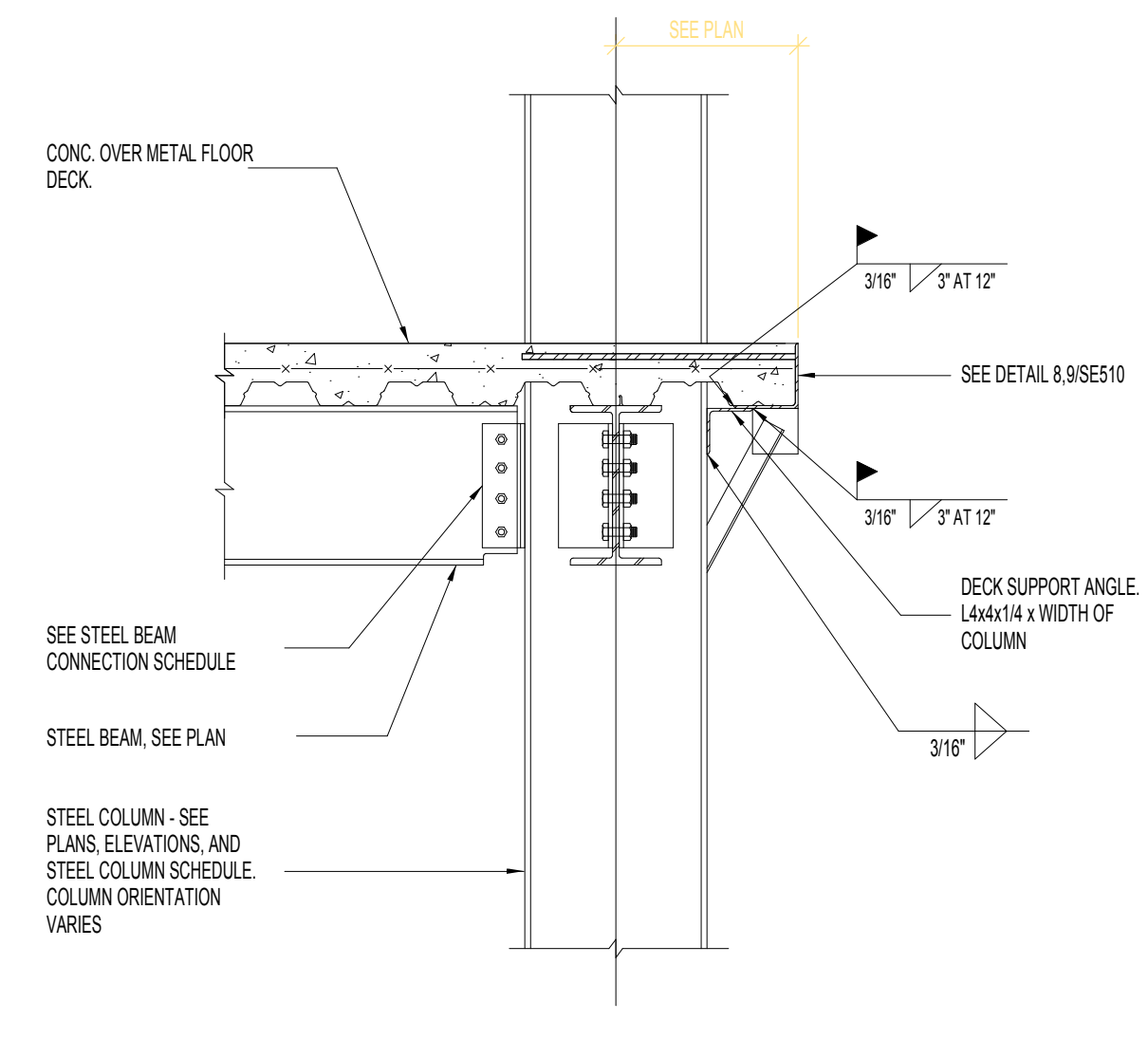
17 TYPICAL BOLTED CONNECTION TO COLUMN WEB, BEAM TWO SIDES. NO SCALE



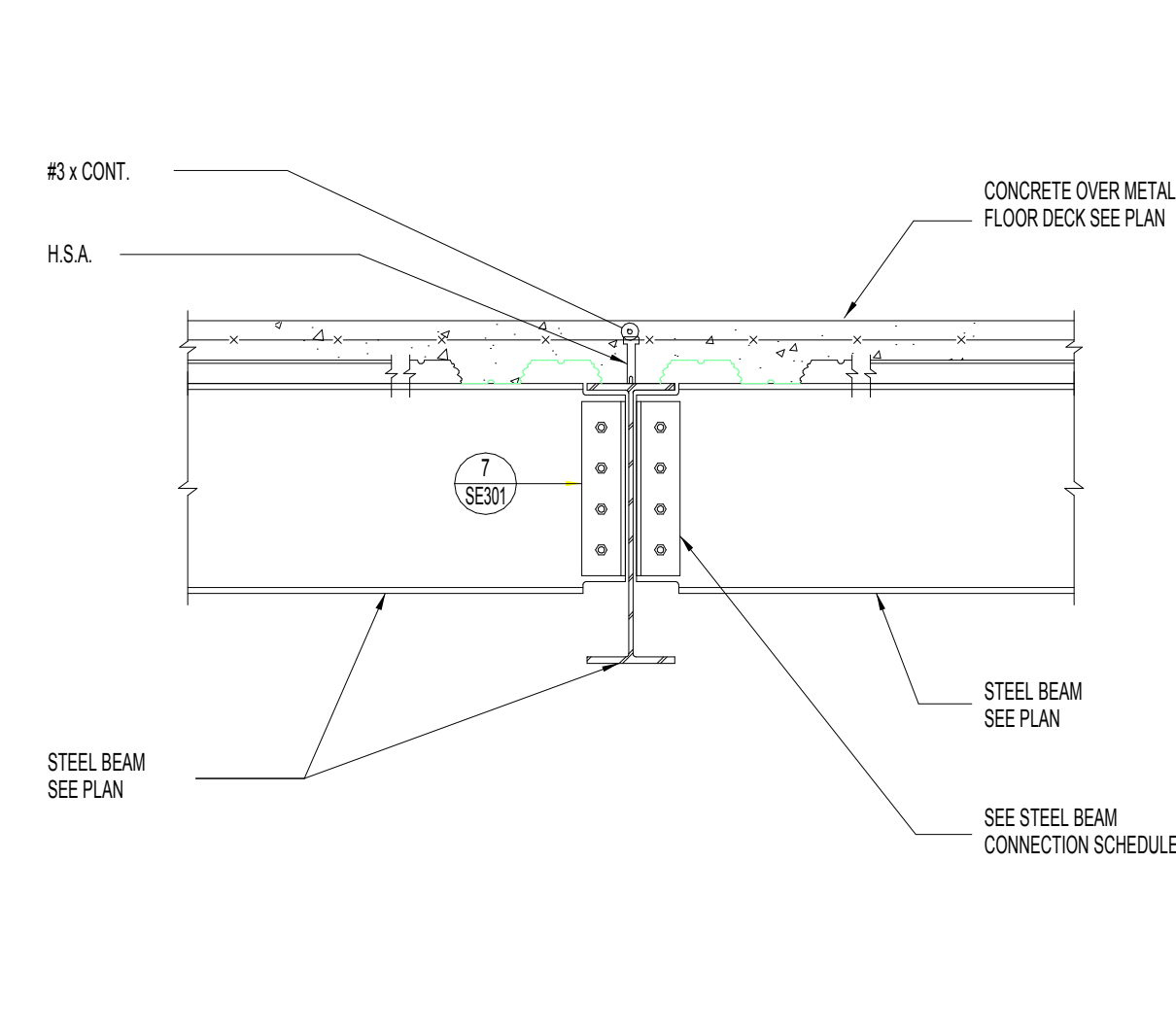
12 COMPOSITE FLOOR BEAM DETAIL NO SCALE



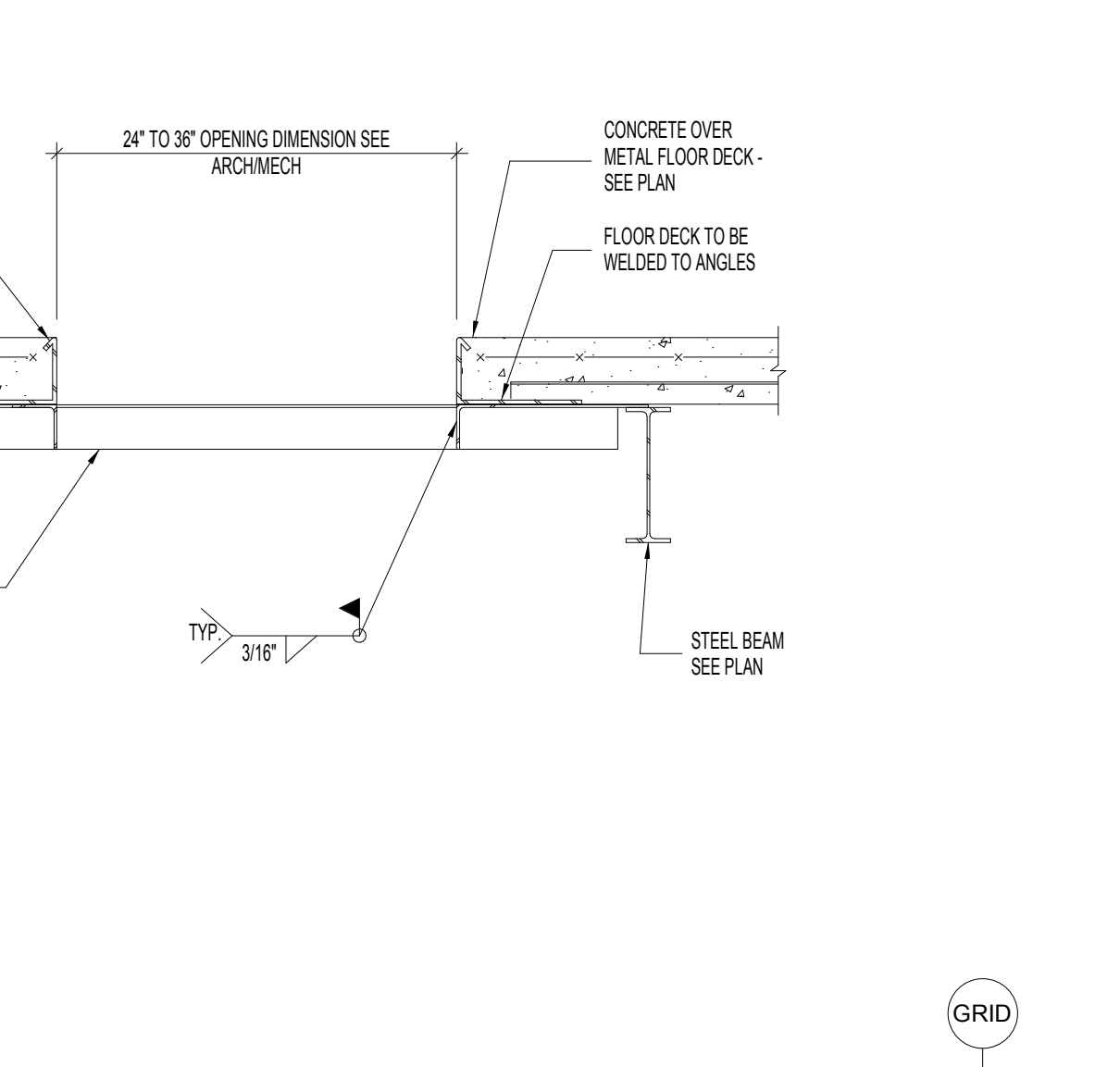
4 TYP DRIFT CONN. @ METAL PANEL SKIN 3/4\"/>



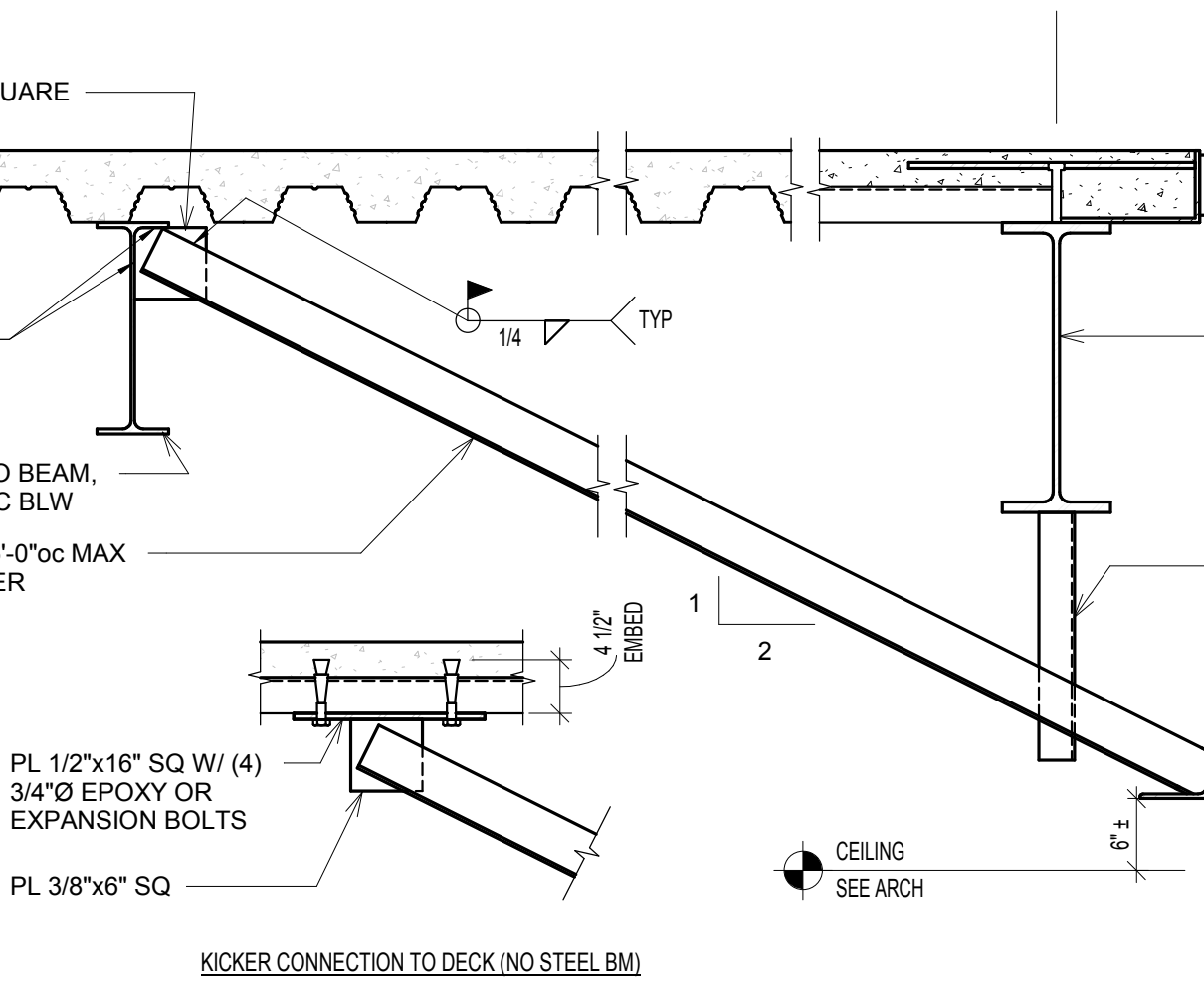
18 TYP. EDGE CONDITION AT COLUMN AT FLOOR NO SCALE



13 STEEL BEAM TO GIRDER CONNECTION. NO SCALE



8 TYPICAL FLOOR OPENING DETAIL NO SCALE



5 TYPICAL CURTAIN WALL AT EXTERIOR 3/4\"/>

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Project Name:
The Vortex Business Center

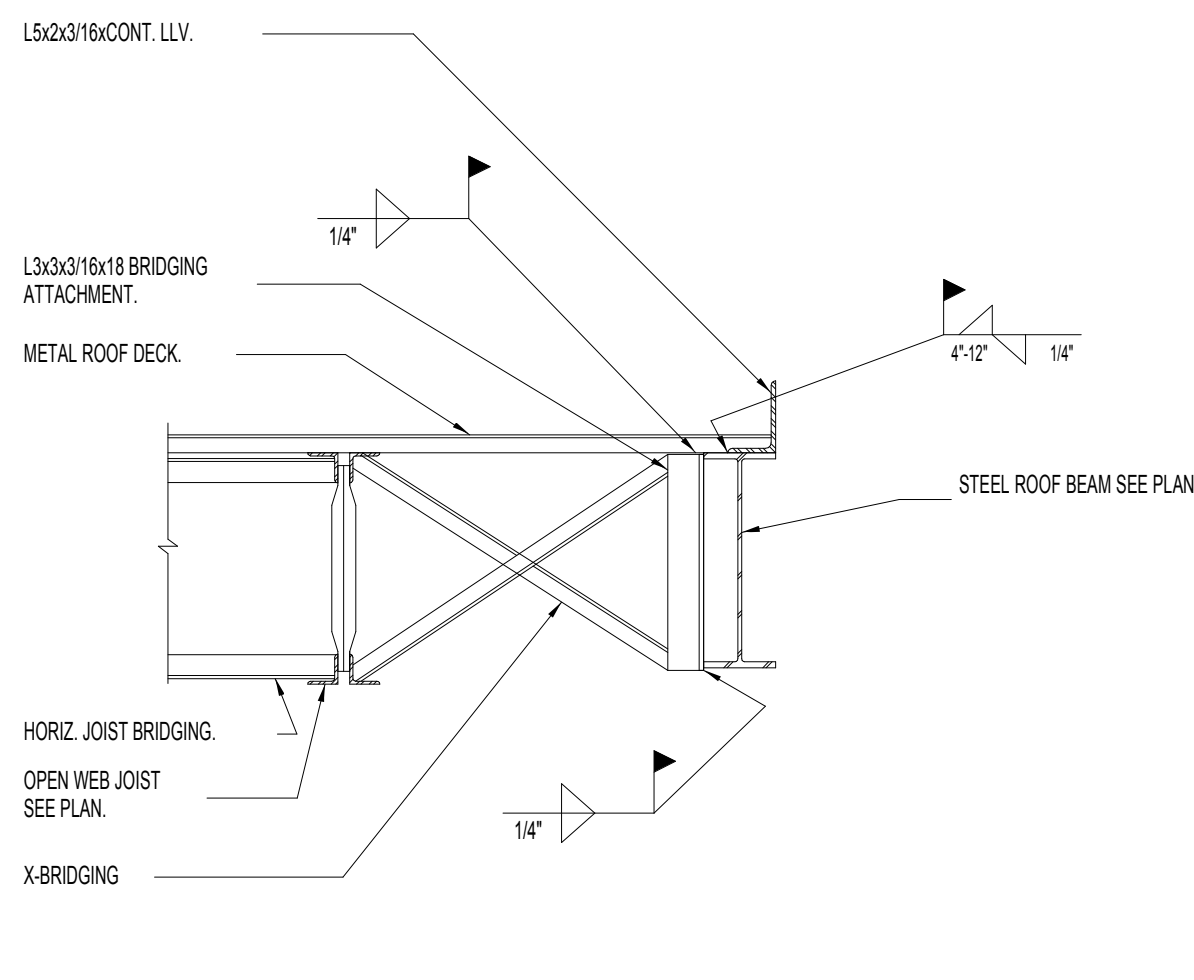
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Revision Schedule		
No.	Description	Date

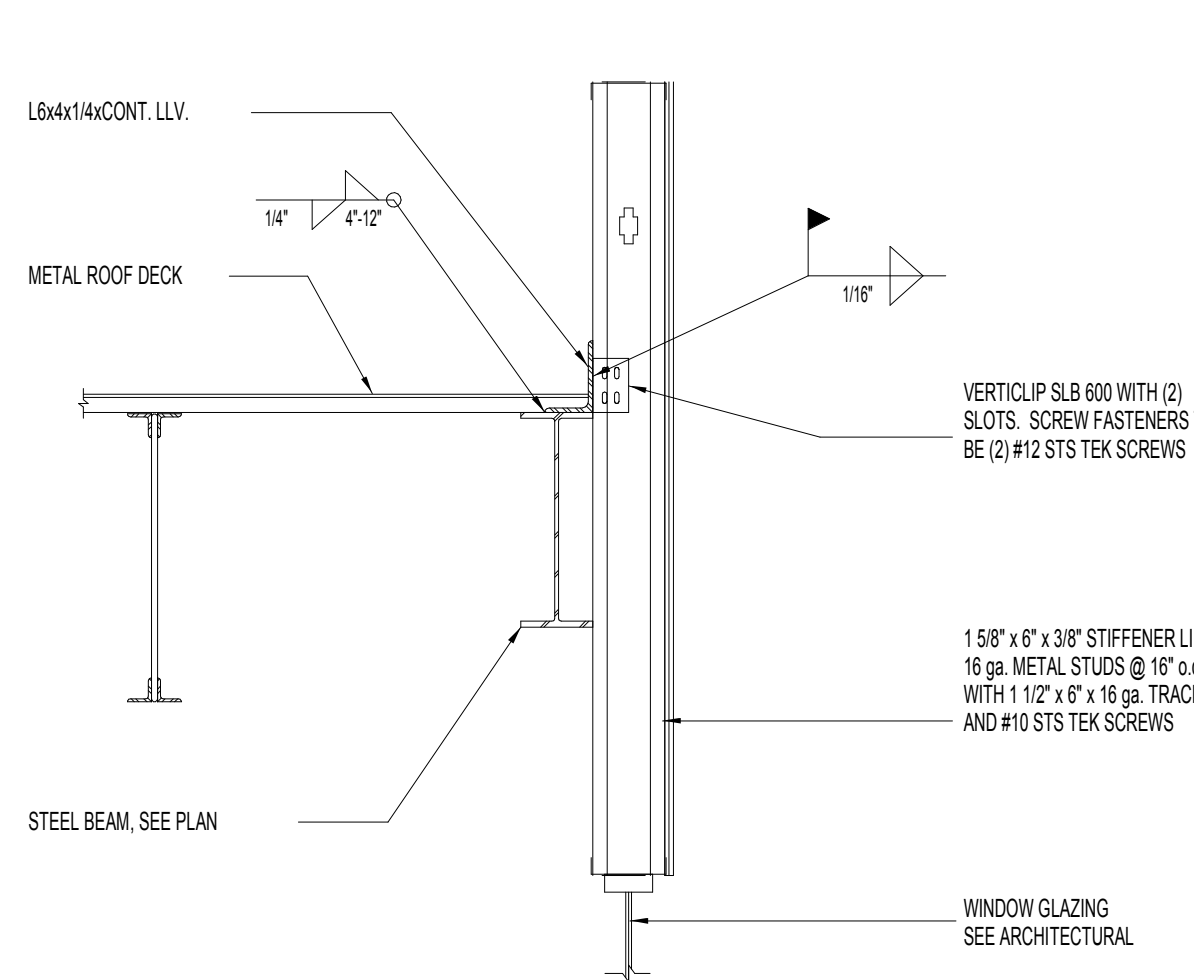
Sheet Name:
FLOOR FRAMING DETAILS

SE511

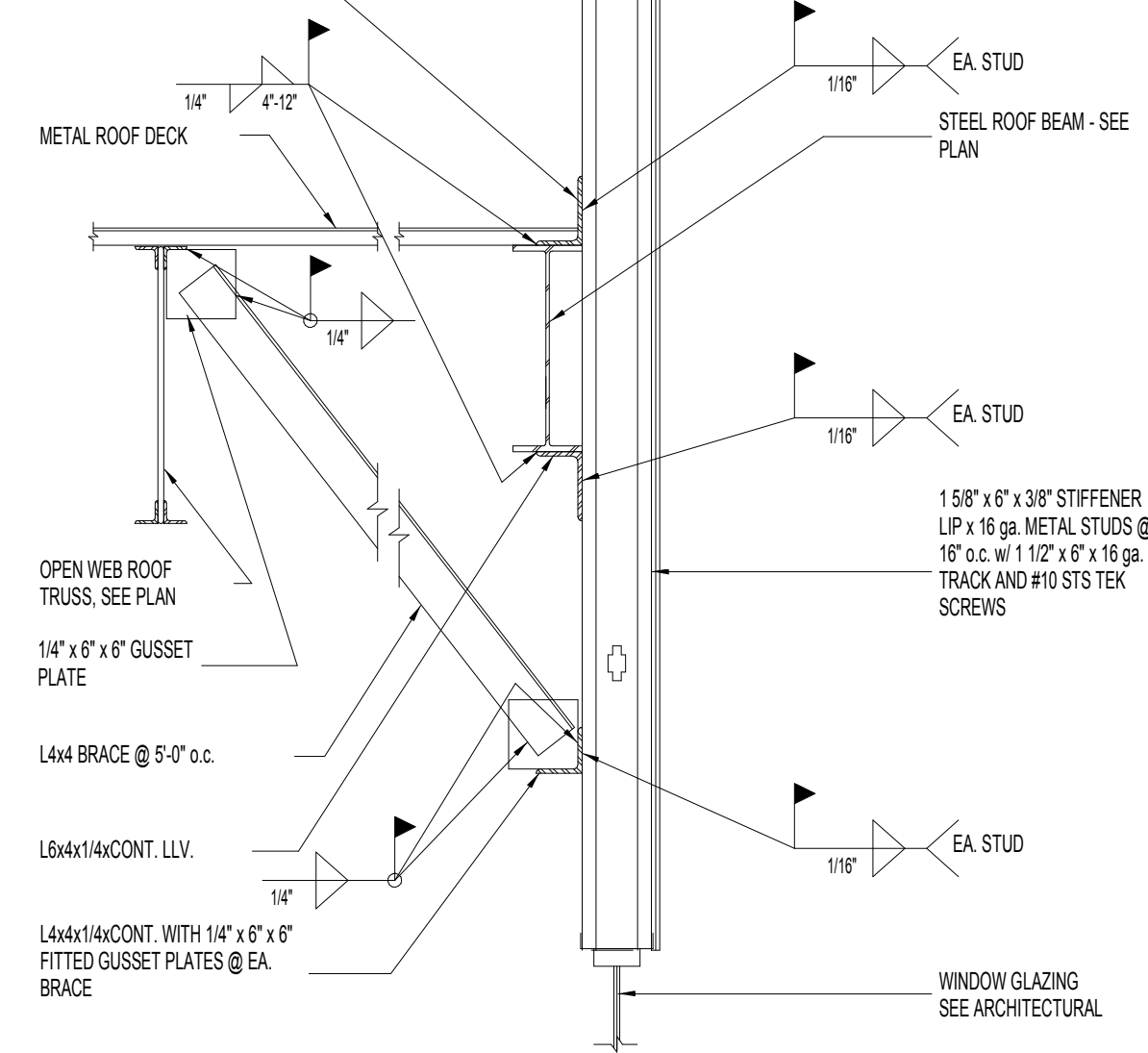
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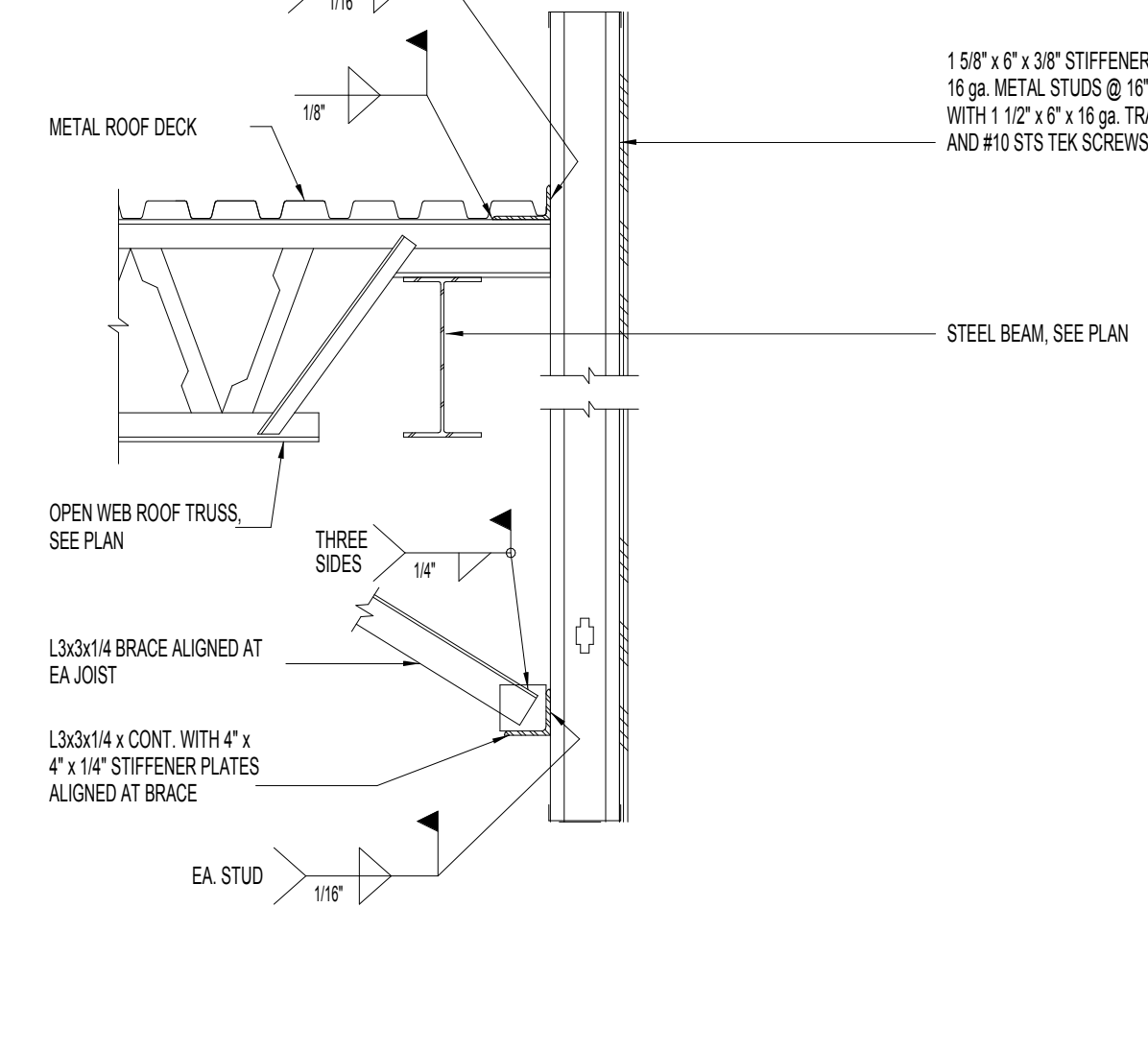
16 ROOF BRIDGING @ STEEL BEAM DETAIL NO SCALE



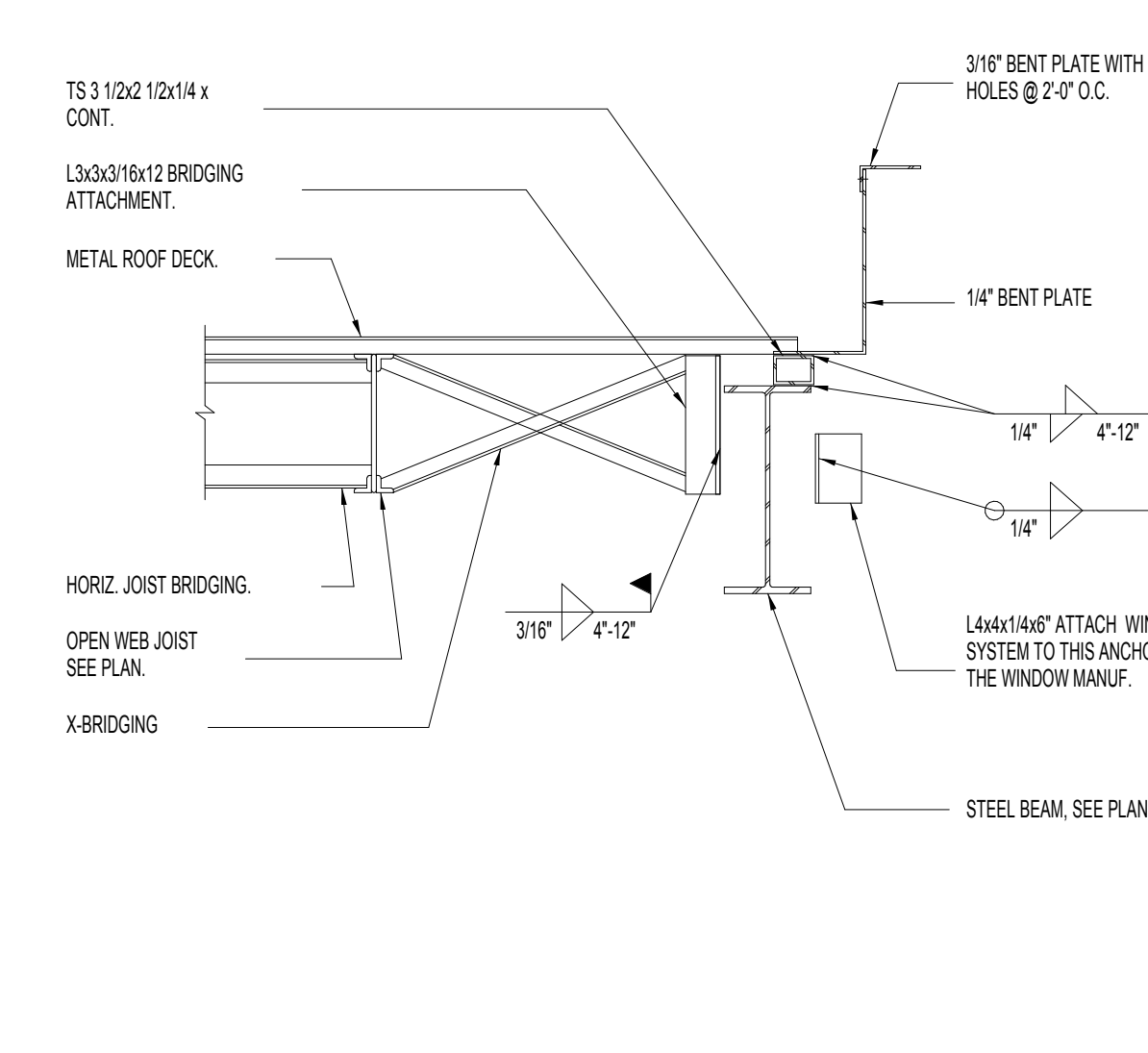
17 METAL STUD WALL CONNECTION TO STEEL BEAM DETAIL NO SCALE



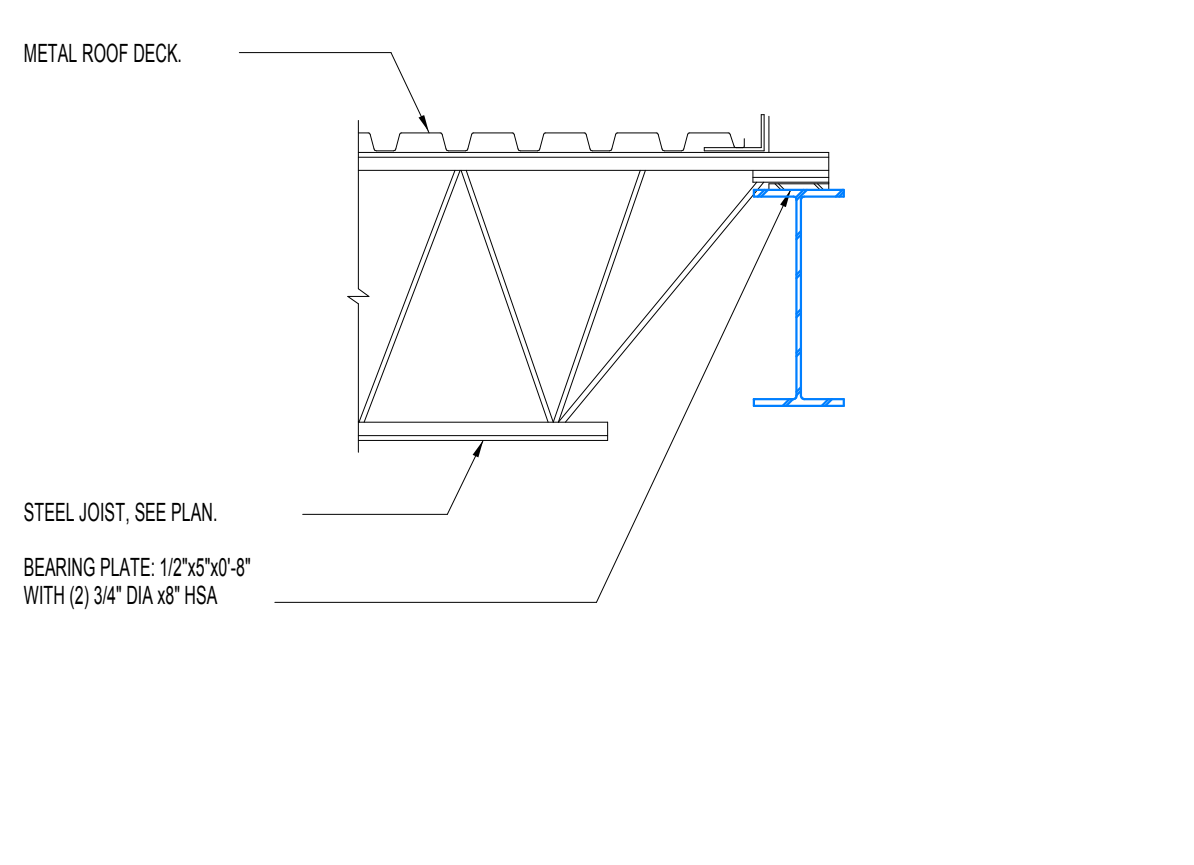
18 ROOF DECK BEARING ON STEEL BEAM DETAIL NO SCALE



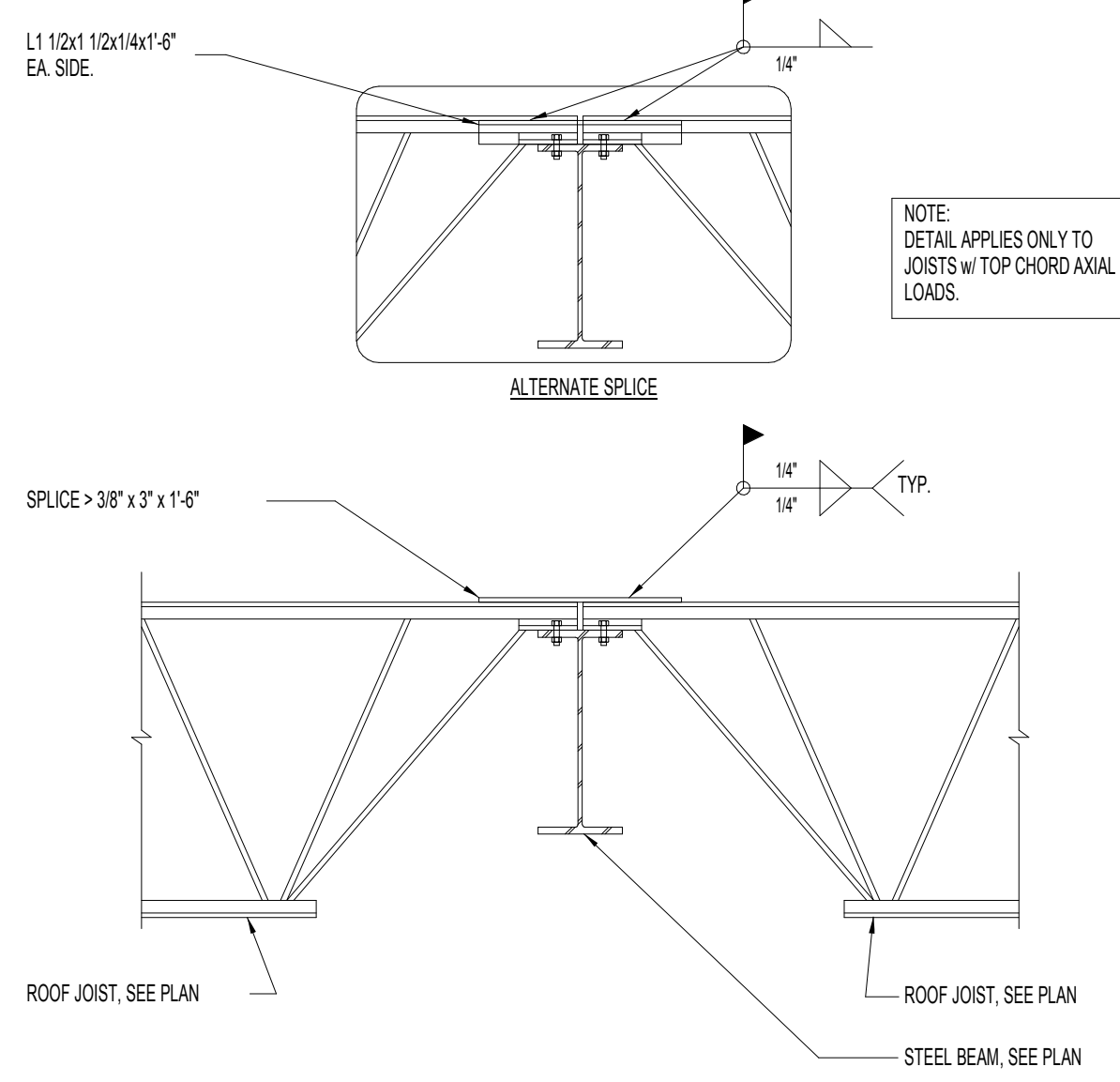
19 EXTERIOR WALL HUNG FROM ROOF JOIST ENDS DETAIL NO SCALE



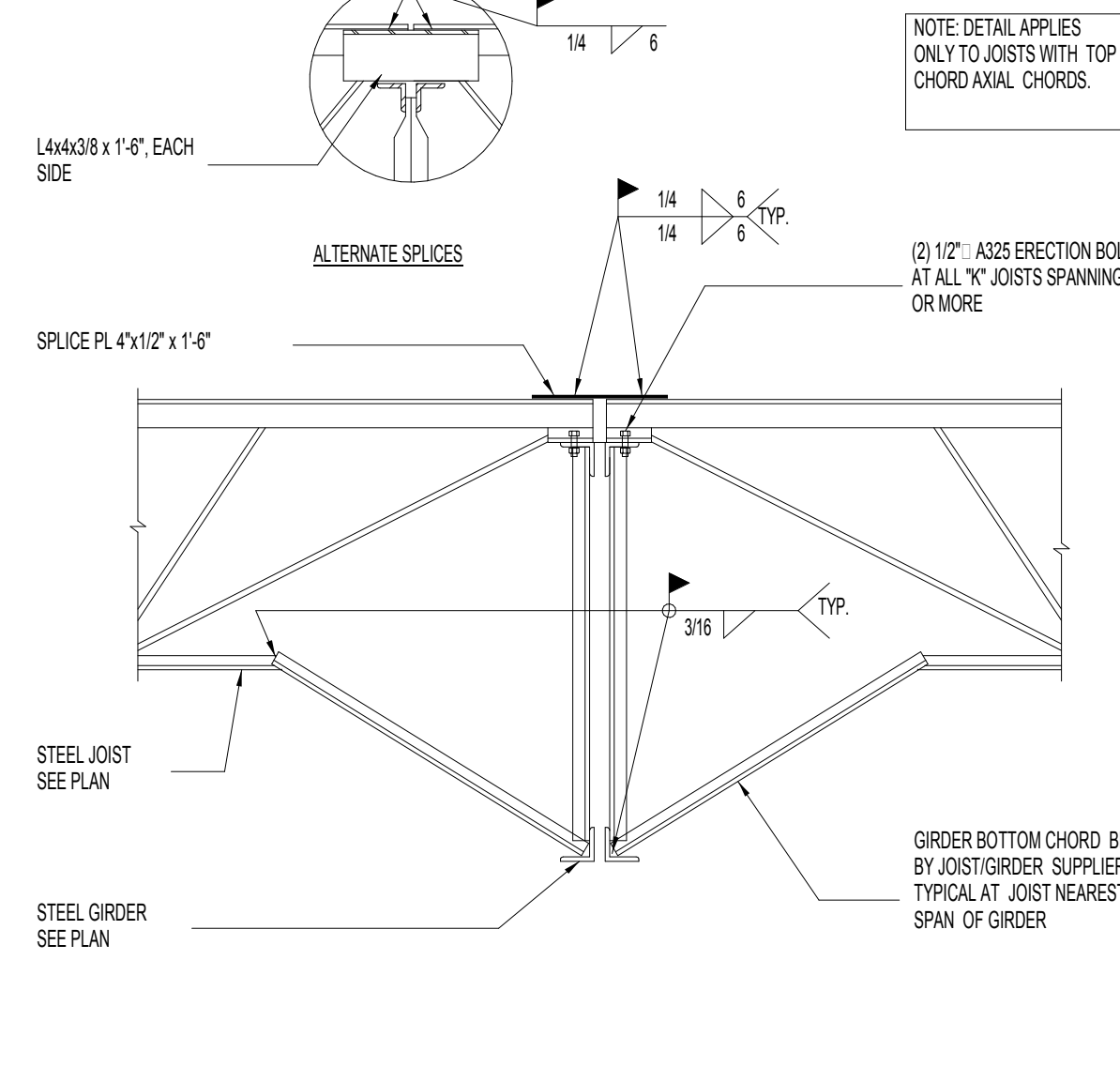
20 ROOF FRAMING DETAIL AT GLASS PARAPET NO SCALE



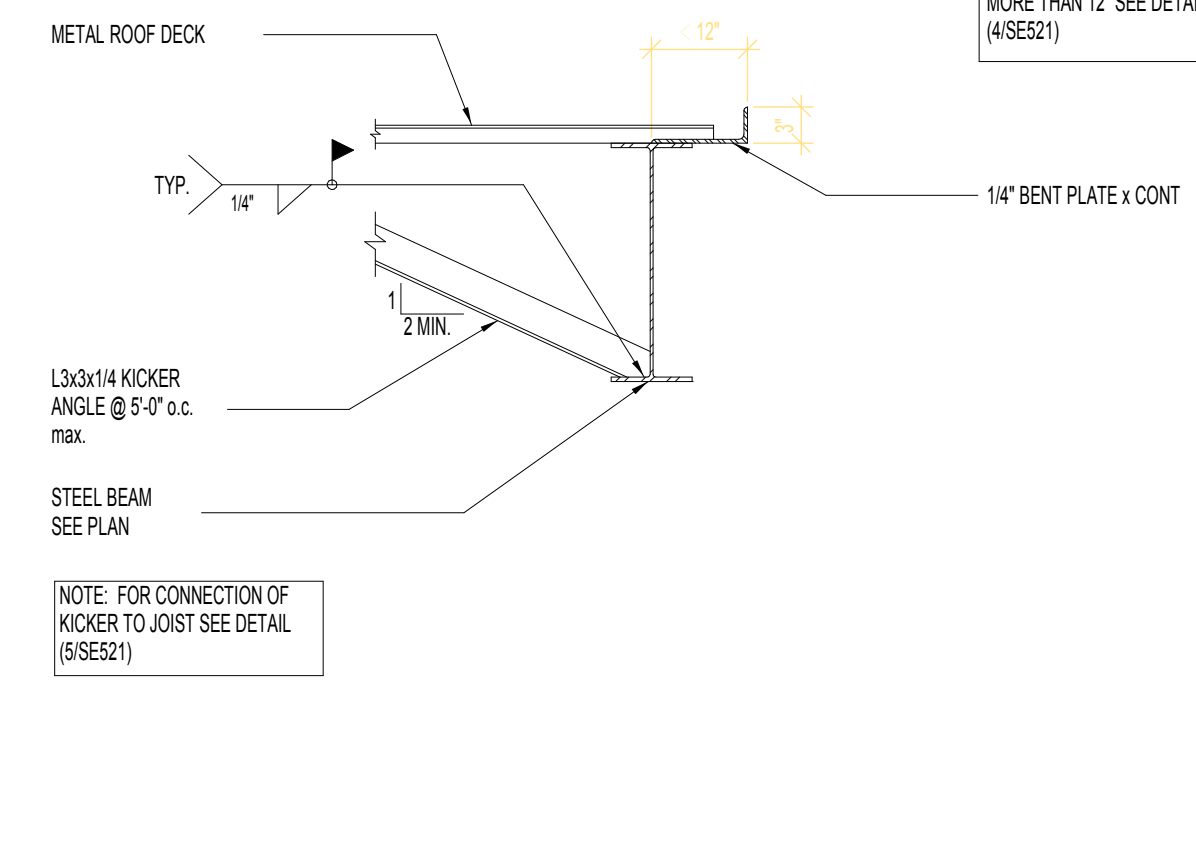
11 TYPICAL K JOIST BEARING AT BEAM NO SCALE



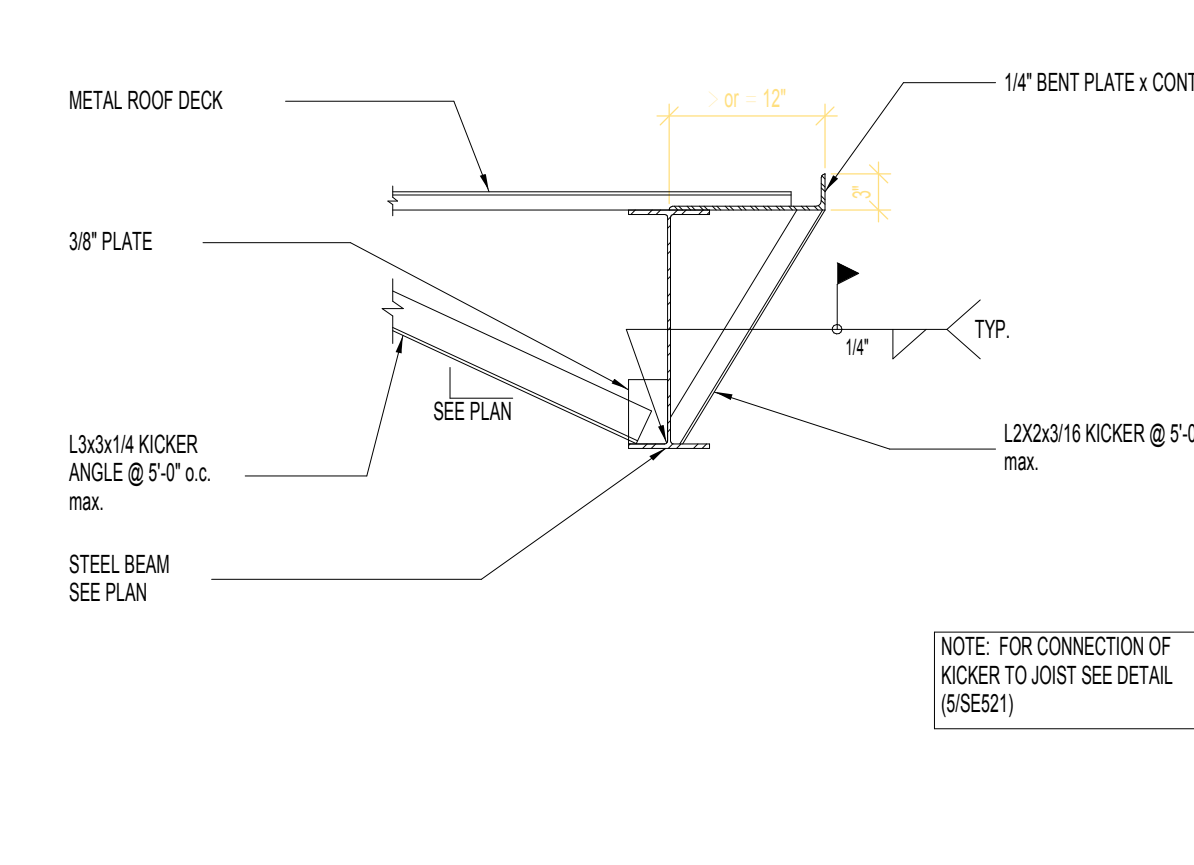
12 TYPICAL JOIST CHORD TIE/DAG STRUT DETAIL NO SCALE



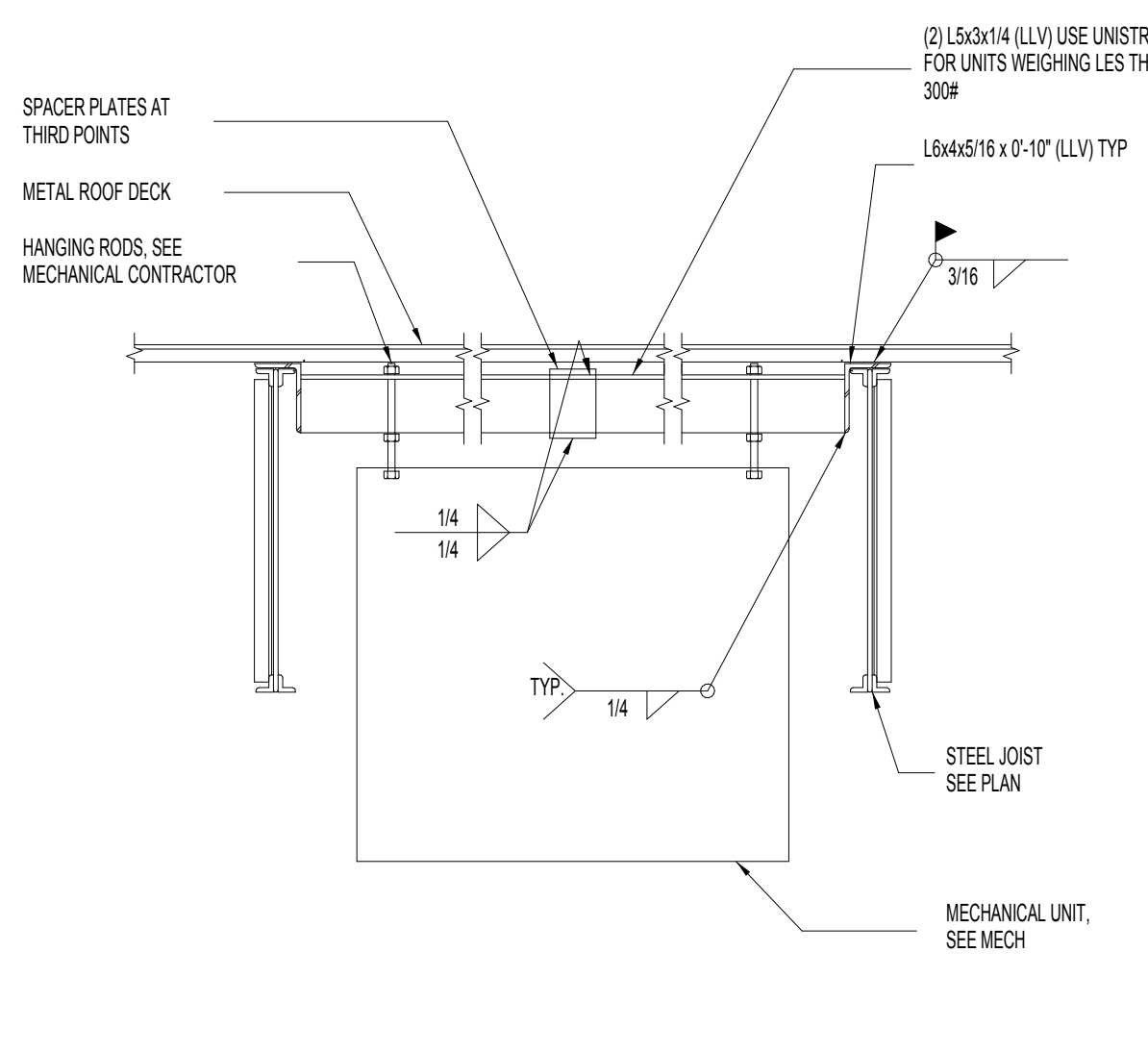
13 TYPICAL JOIST CHORD TIE/DAG STRUT DETAIL NO SCALE



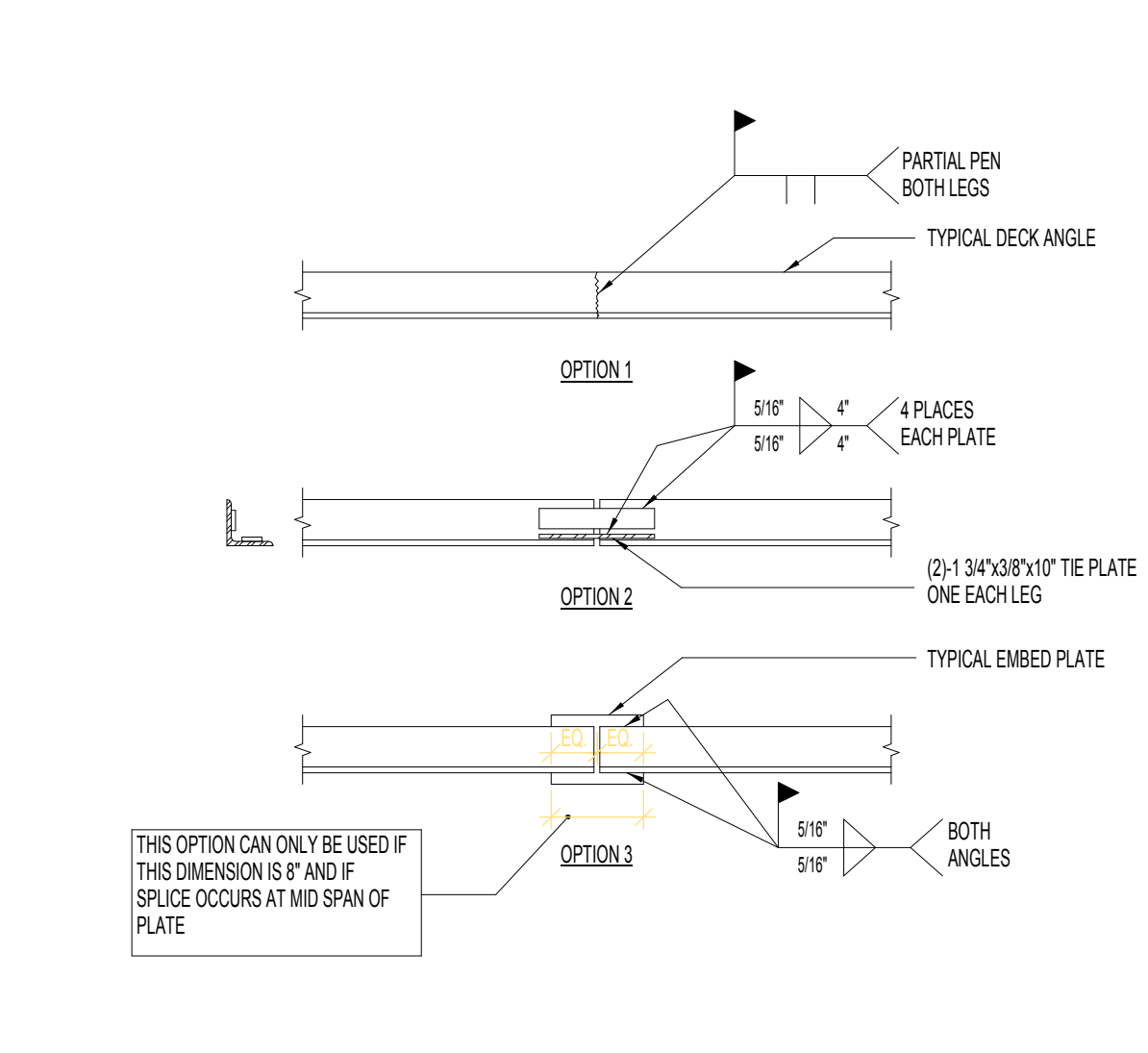
14 DECK EDGE DETAIL (OVERHANG LESS THAN 12\") NO SCALE



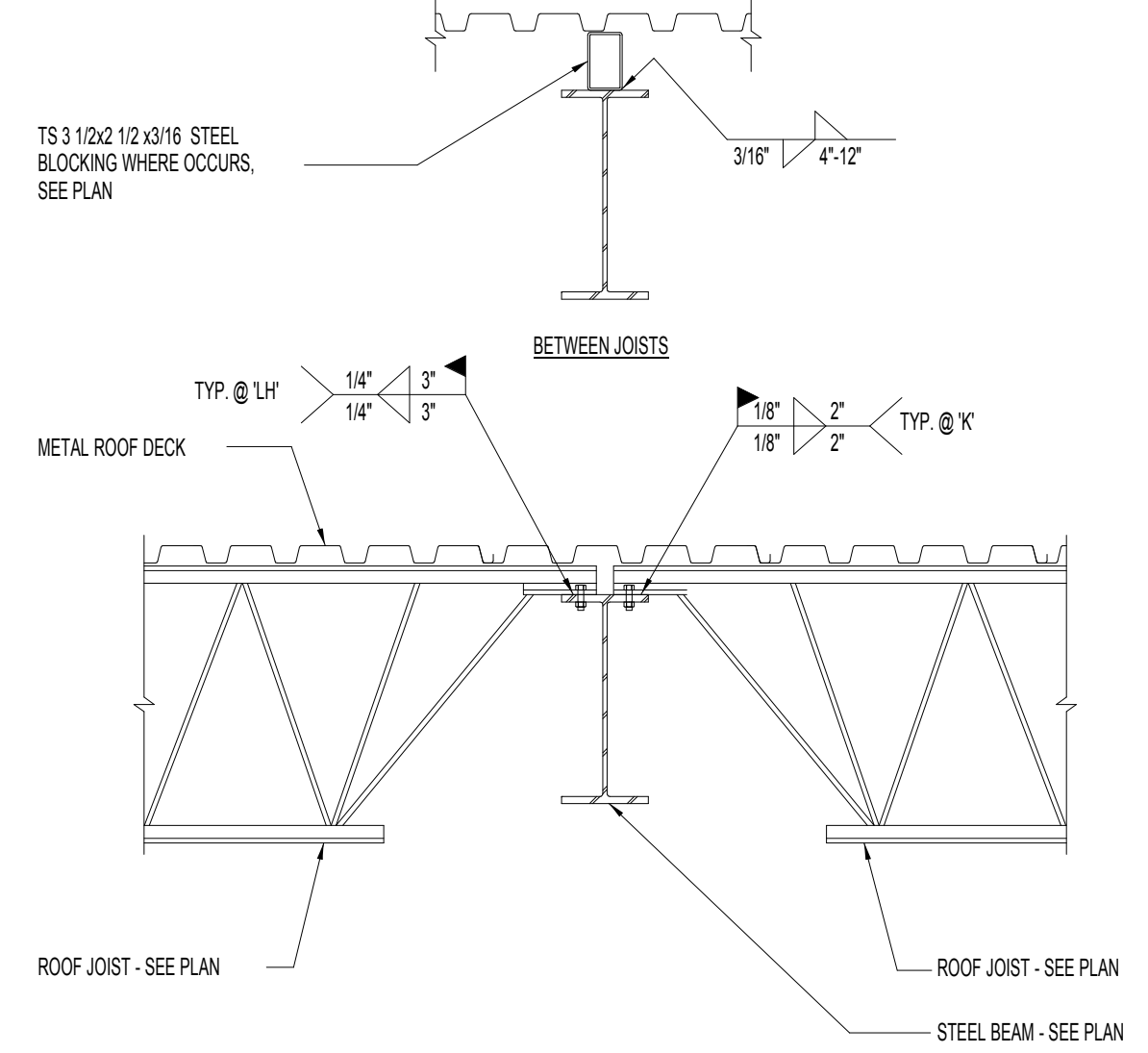
15 DECK EDGE DETAIL (OVERHANG 12\"/>



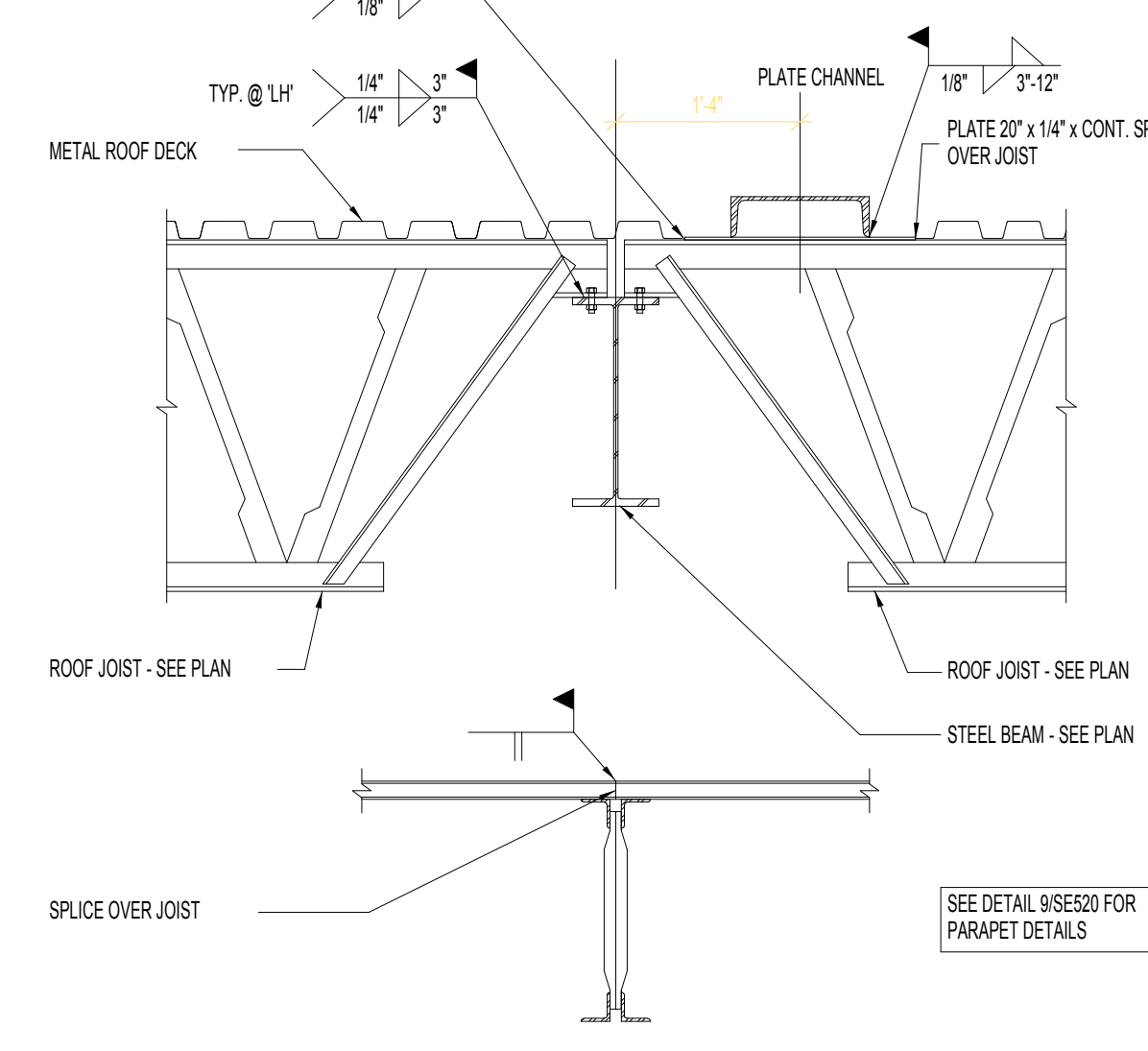
6 HANGING MECHANICAL UNIT NO SCALE



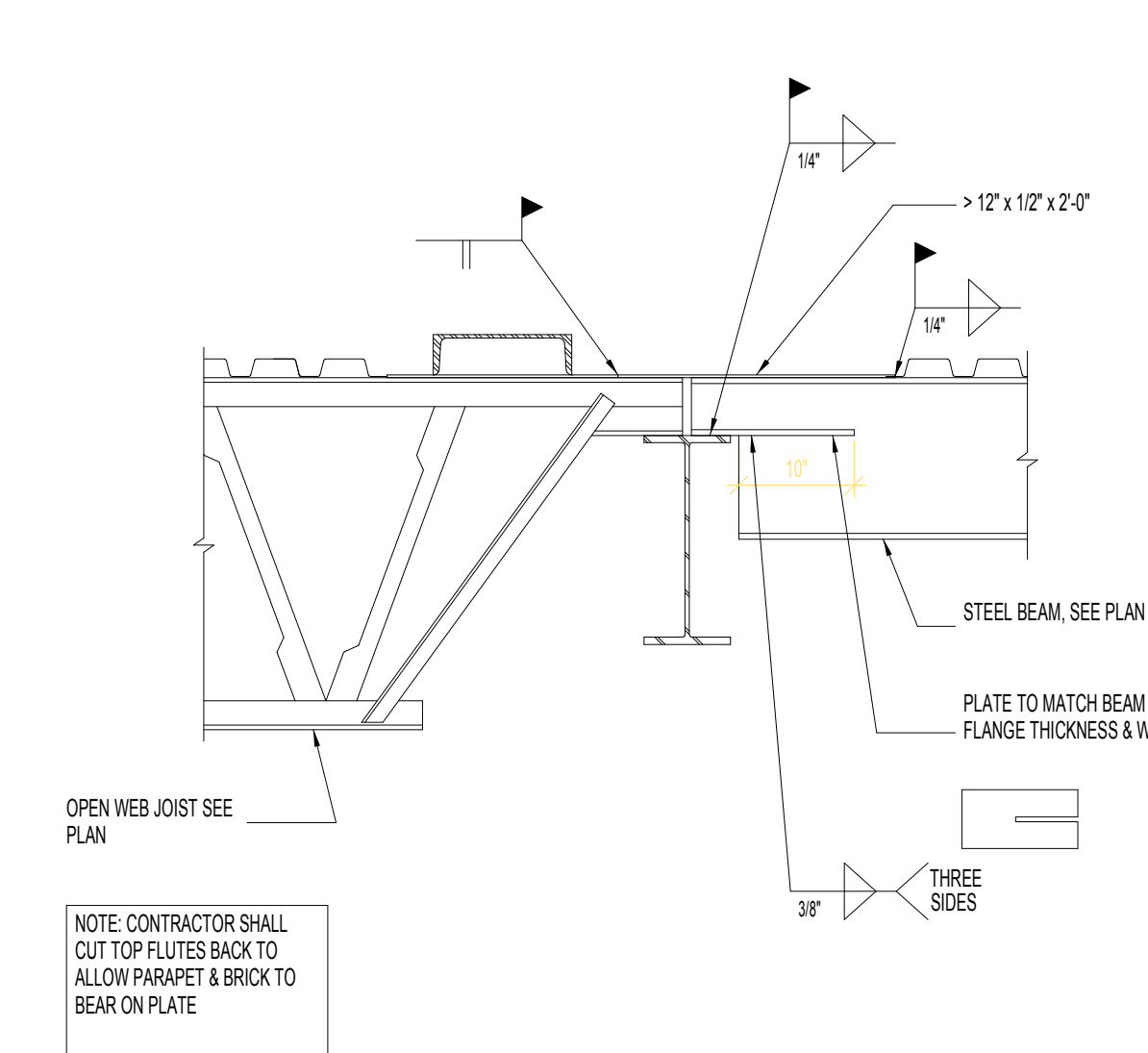
7 DECK ANGLE SPLICE OPTIONS DETAIL NO SCALE



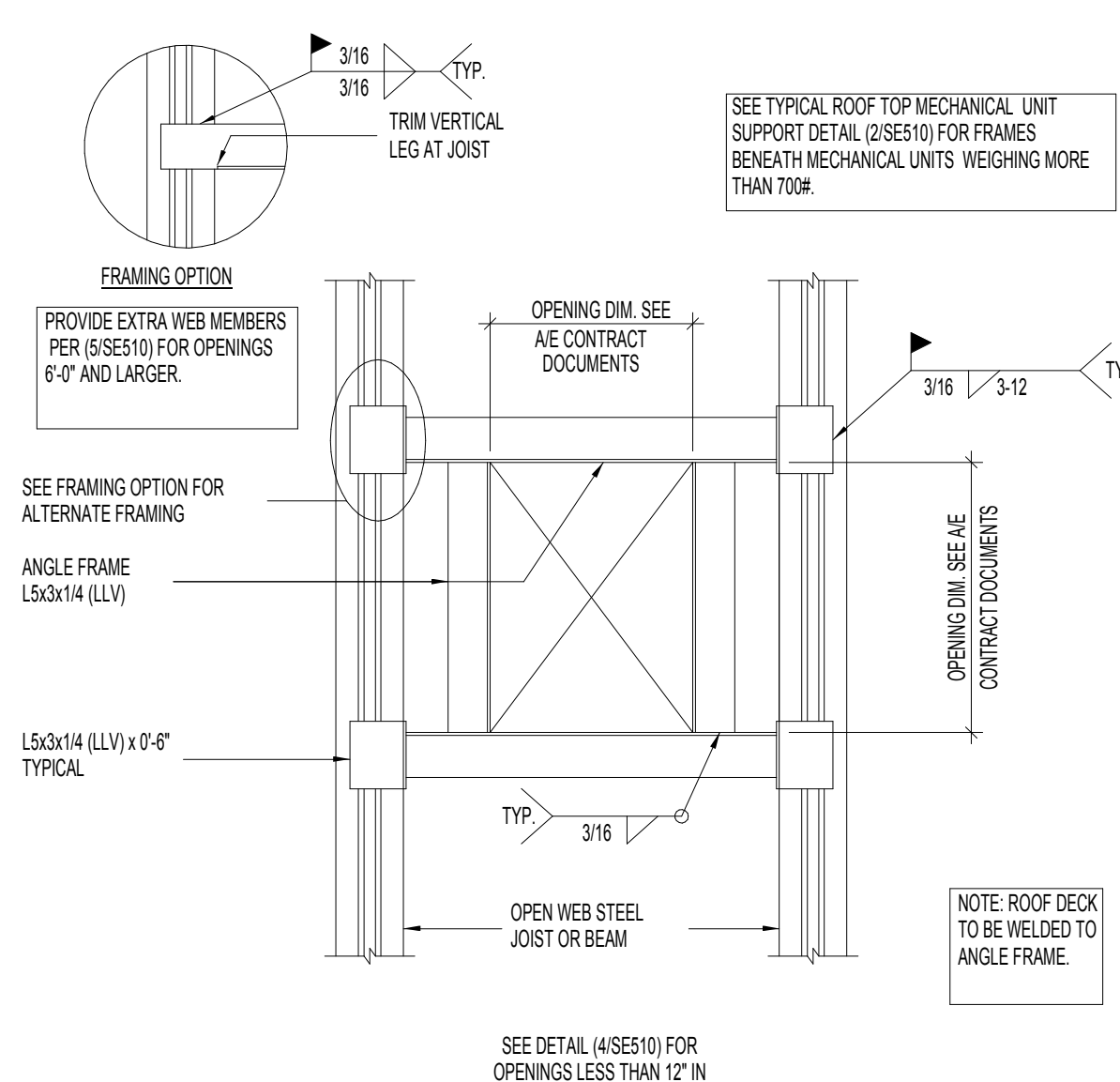
8 TYPICAL 'K' JOIST BEARING DETAIL AT STEEL BEAM NO SCALE



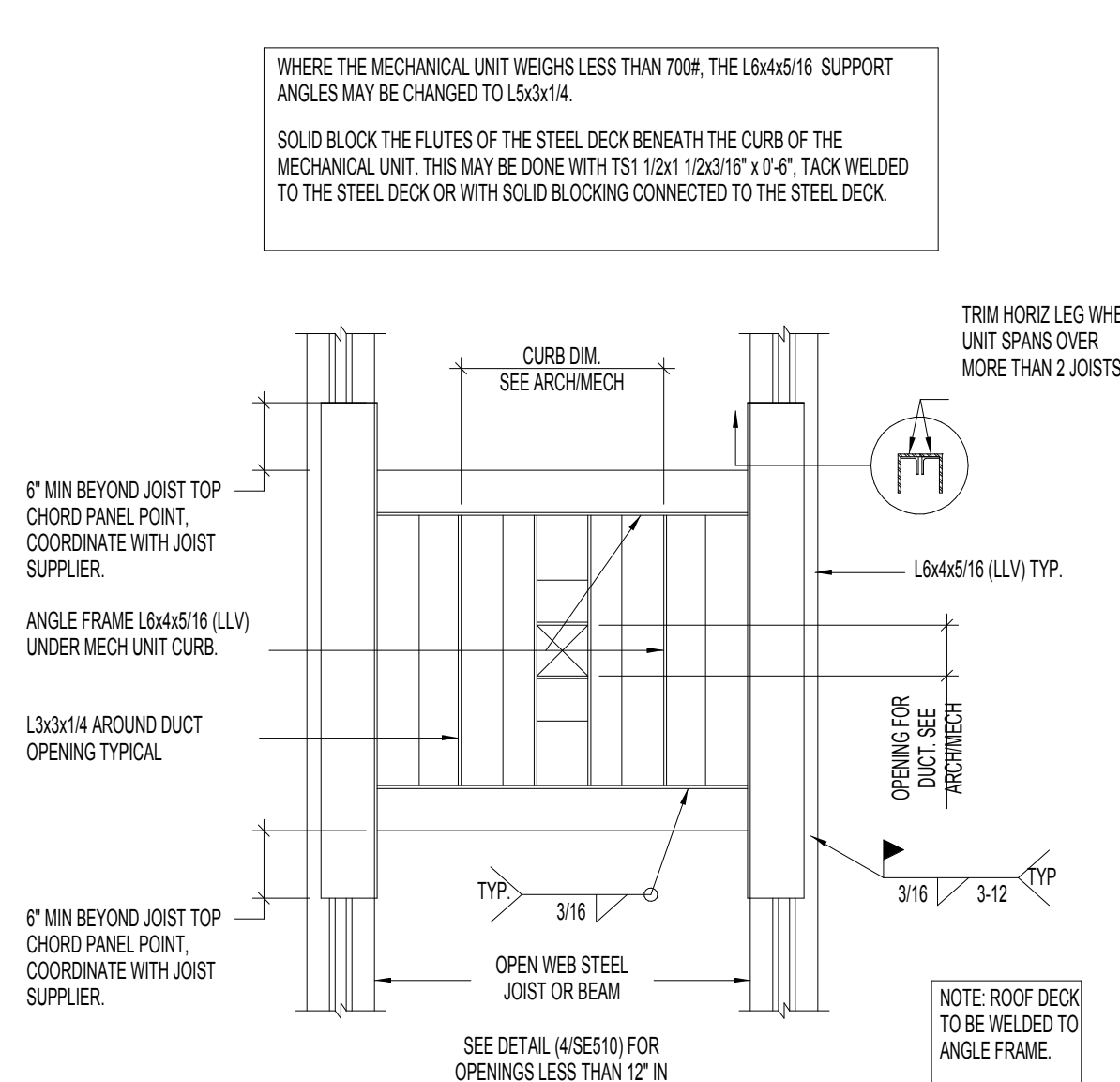
9 TYPICAL 'LH' JOIST BEARING DETAIL AT STEEL BEAM NO SCALE



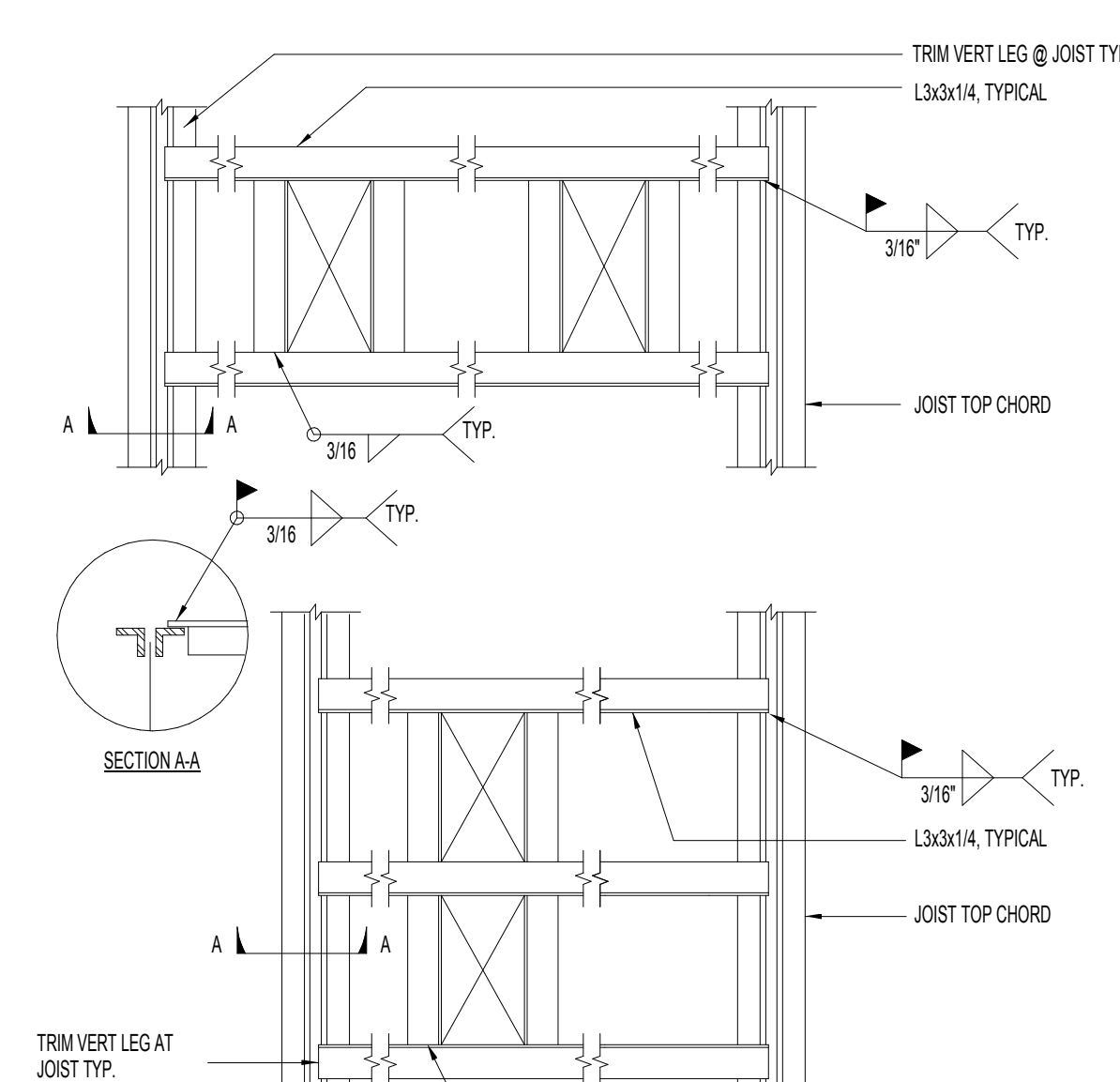
10 ROOF BEAM TO ROOF BEAM CONNECTION @ PARAPET WALL NO SCALE



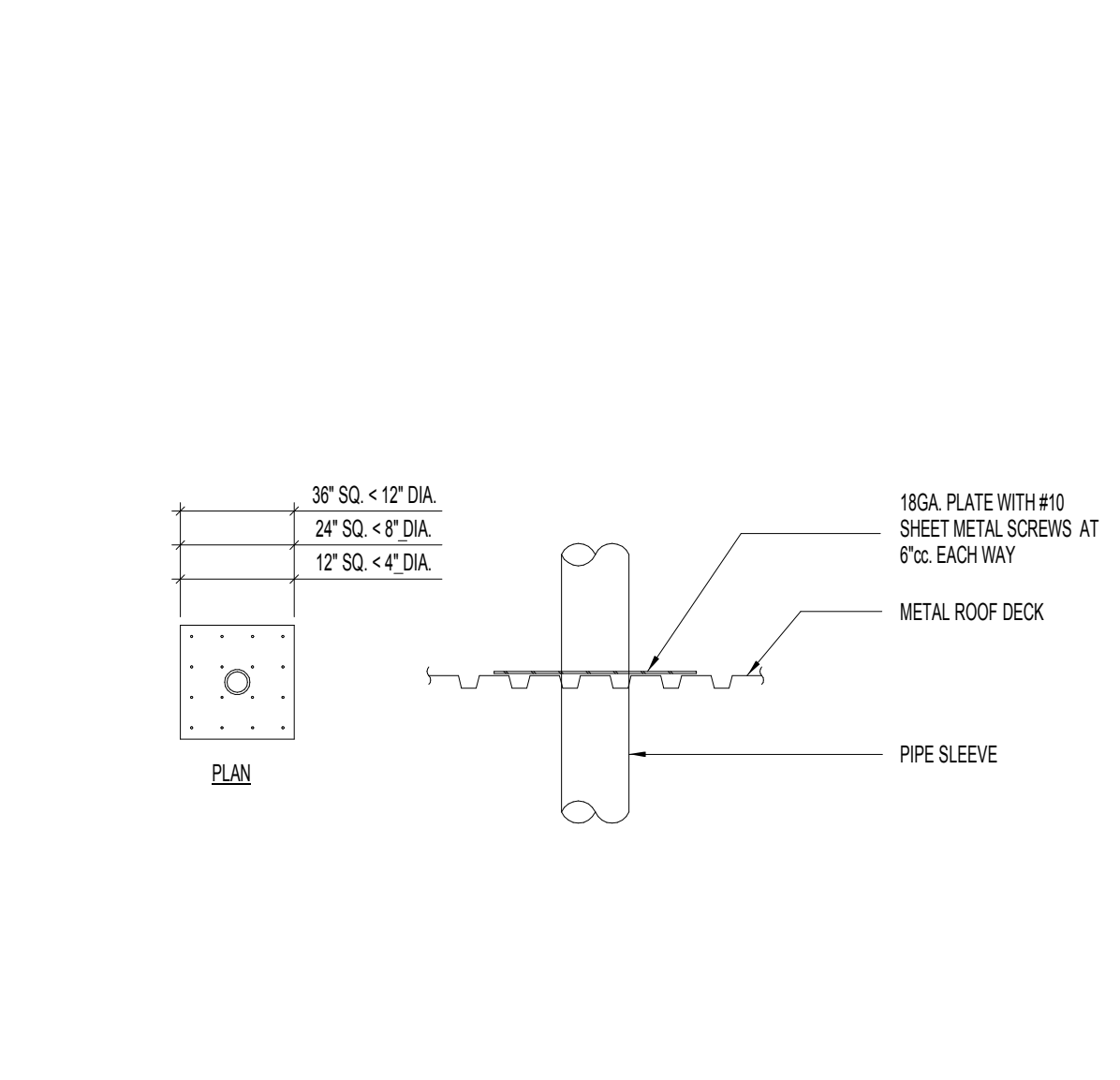
1 TYPICAL ROOF OPENING DETAIL (PLAN VIEW) OR MECHANICAL UNITS WEIGHING LESS THAN 700# NO SCALE



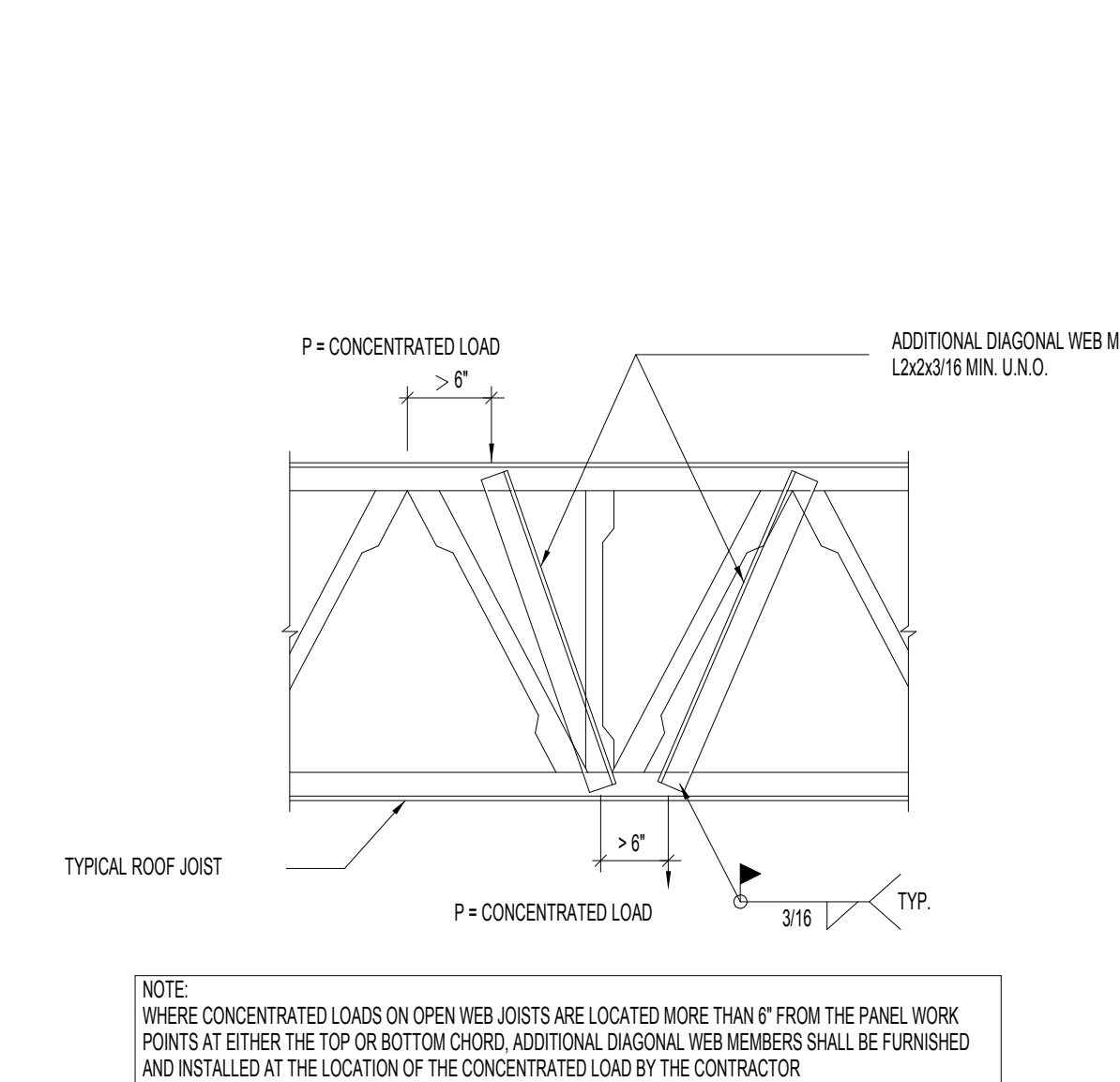
2 TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL NO SCALE



3 TYPICAL ROOF DRAIN SUPPORT DETAIL (PLAN VIEW) NO SCALE



4 TYPICAL PIPE SLEEVE HOLE THRU ROOF DECK DETAIL NO SCALE



5 TYPICAL JOIST REINFORCING DETAIL NO SCALE

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The Vortex Business Center

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Revision Schedule		
No.	Description	Date

Sheet Name:
ROOF FRAMING DETAILS

SE521



ARCHITECT



STRUCTURAL ENGINEER

SCHRODINGER'S CAT



ENGINEERING

MECHANICAL ENGINEER



ELECTRICAL SOLUTION ENGINEERING LLC

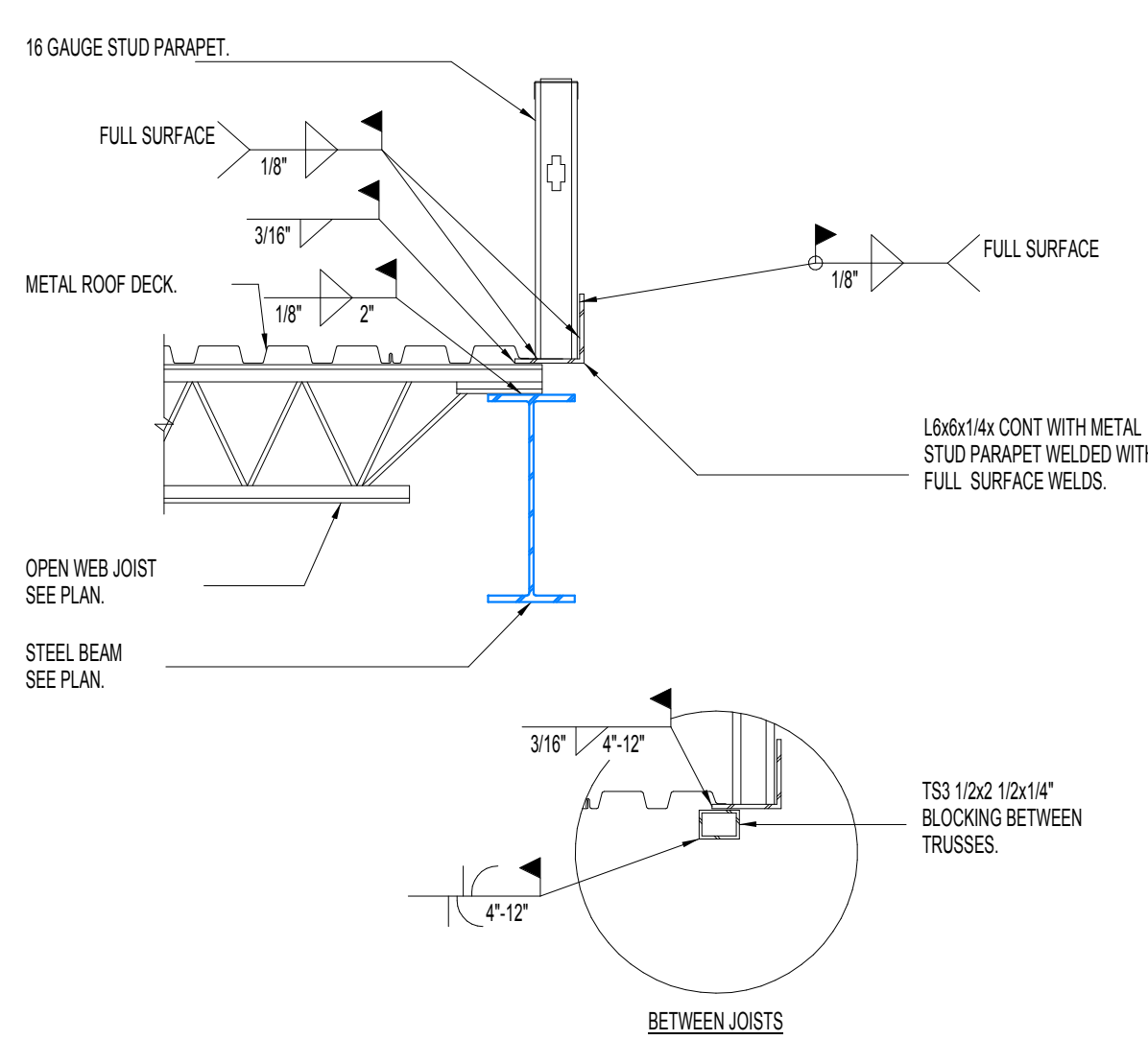
ELECTRICAL ENGINEER



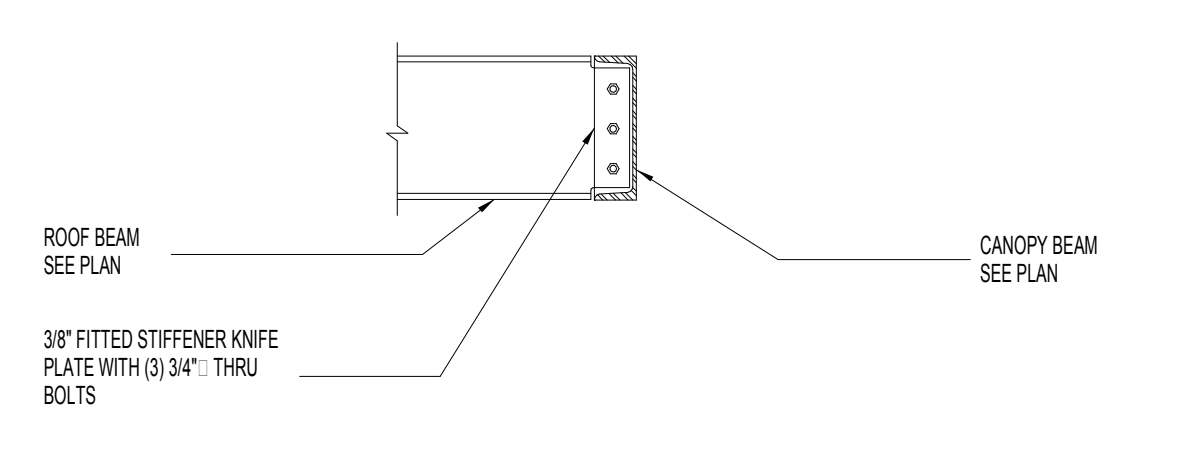
CONTRACTOR



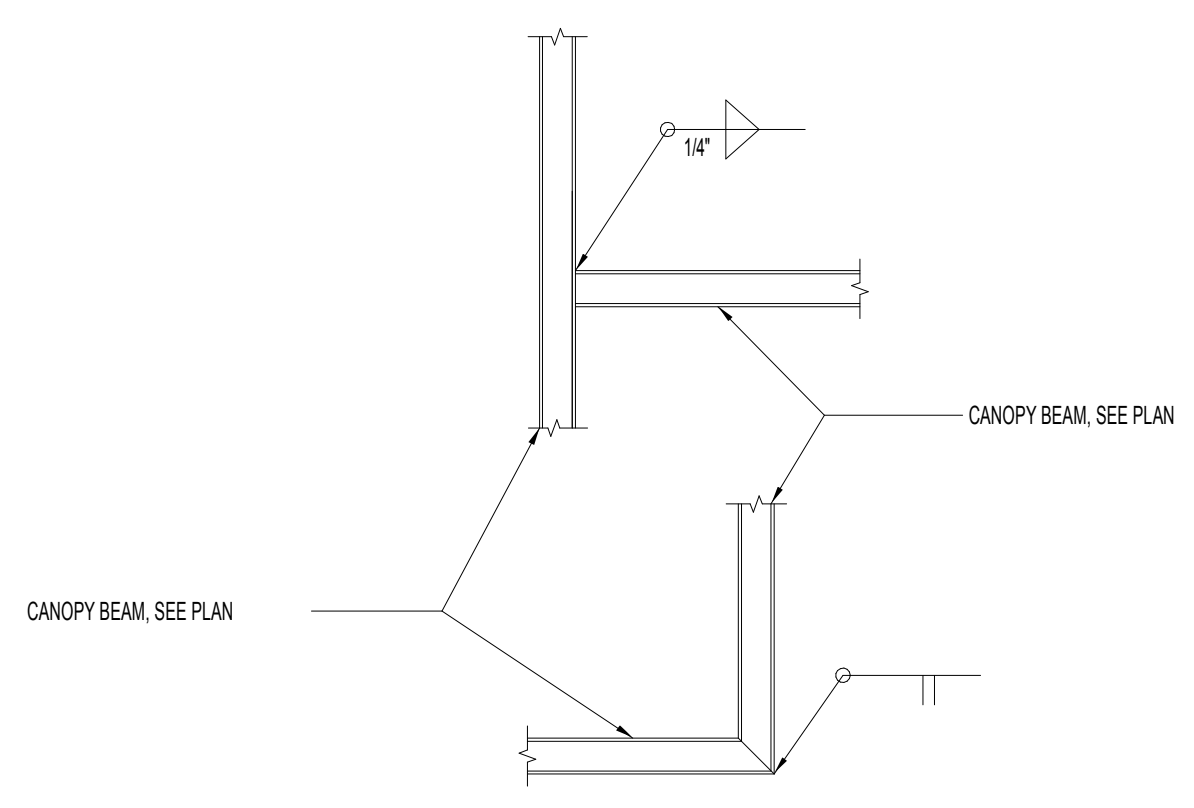
ART VANDELAY



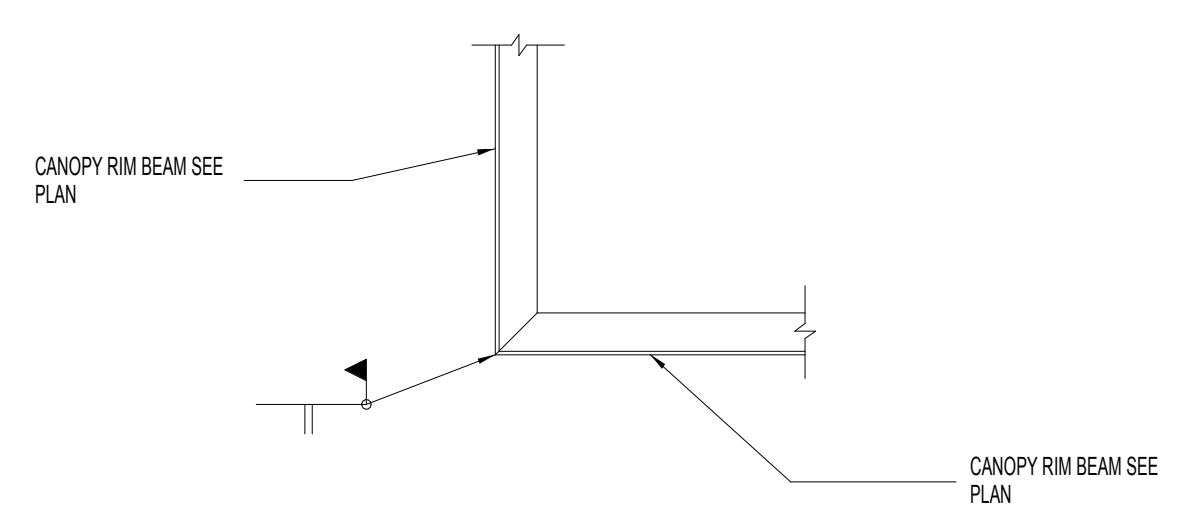
6 EXPANSION JOINT AT ROOF BETWEEN ROOF STRUCTURES NO SCALE



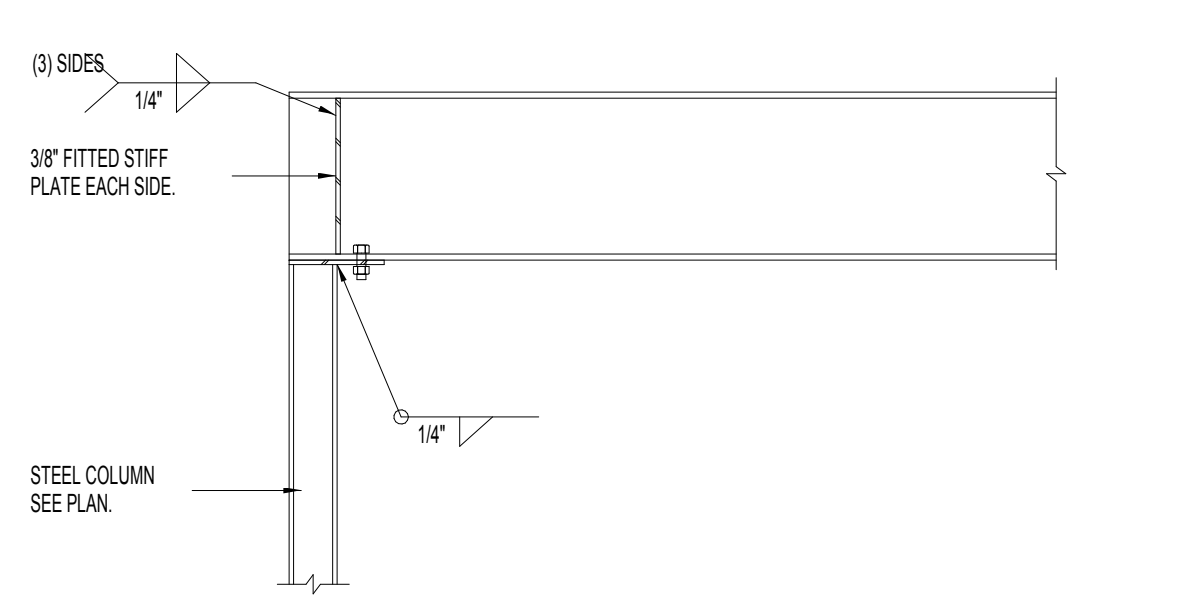
7 STEEL ROOF BEAM TO BEAM CONNECTION NO SCALE



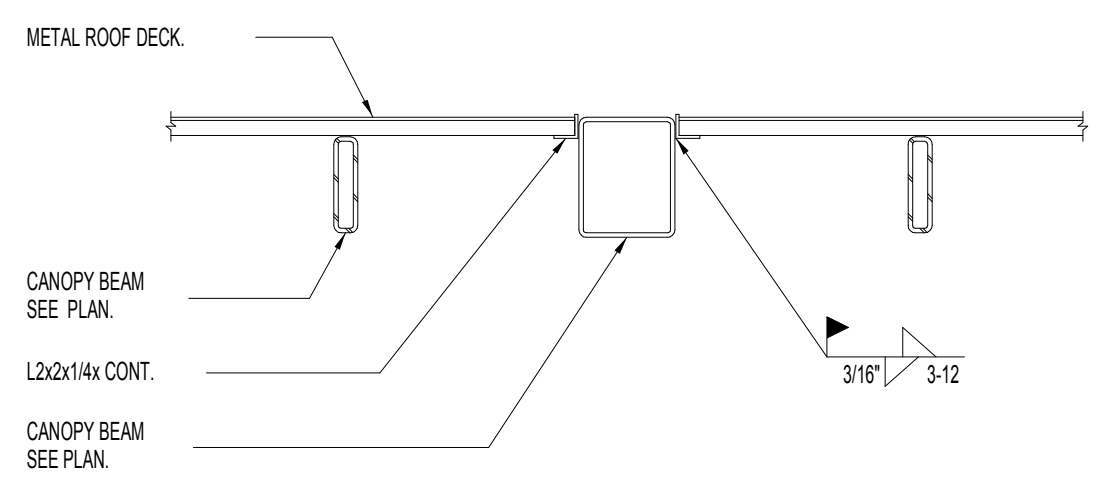
8 CANOPY FRAMING CONNECTION DETAILS NO SCALE



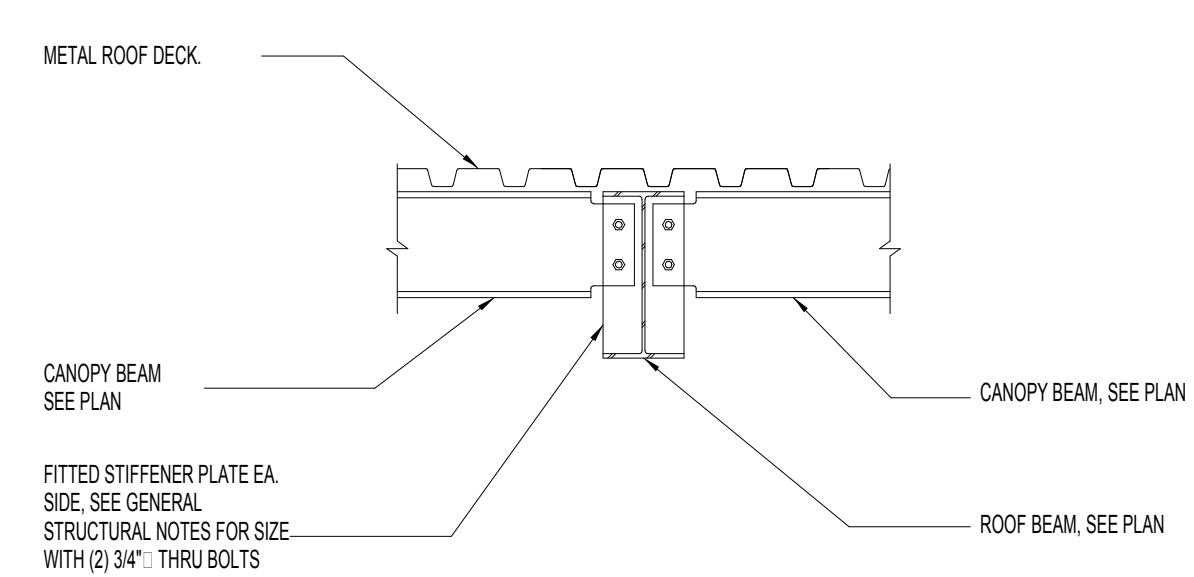
9 CANOPY RIM BEAM CONNECTION NO SCALE



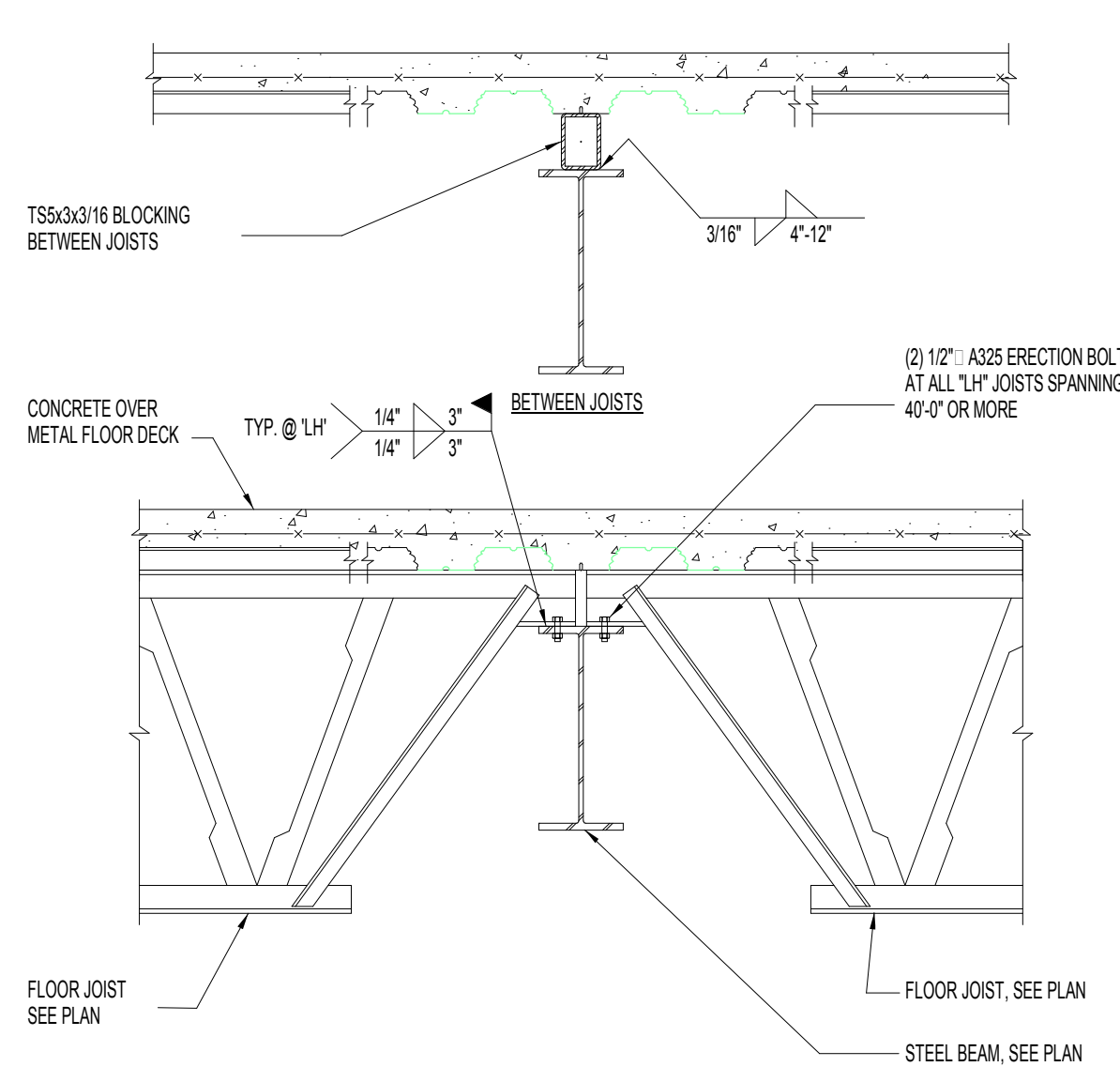
10 STEEL BEAM BEARING ON STEEL TUBE COLUMN NO SCALE



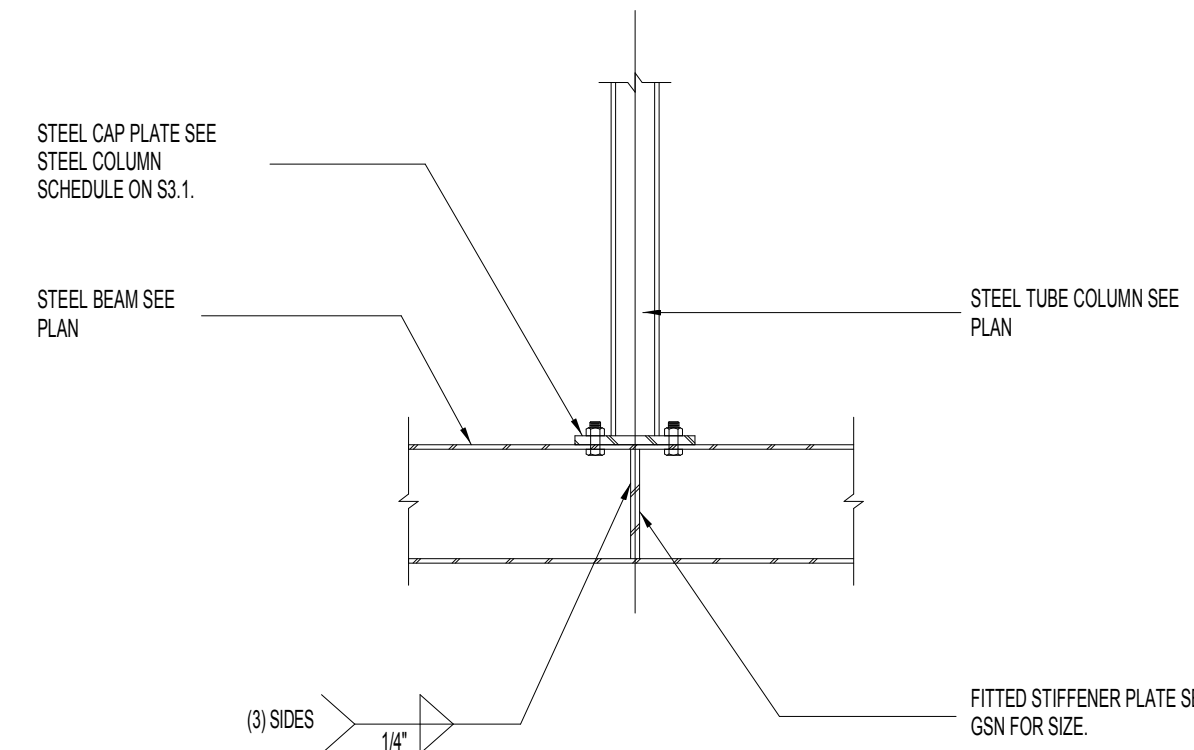
1 CANOPY FRAMING DETAIL NO SCALE



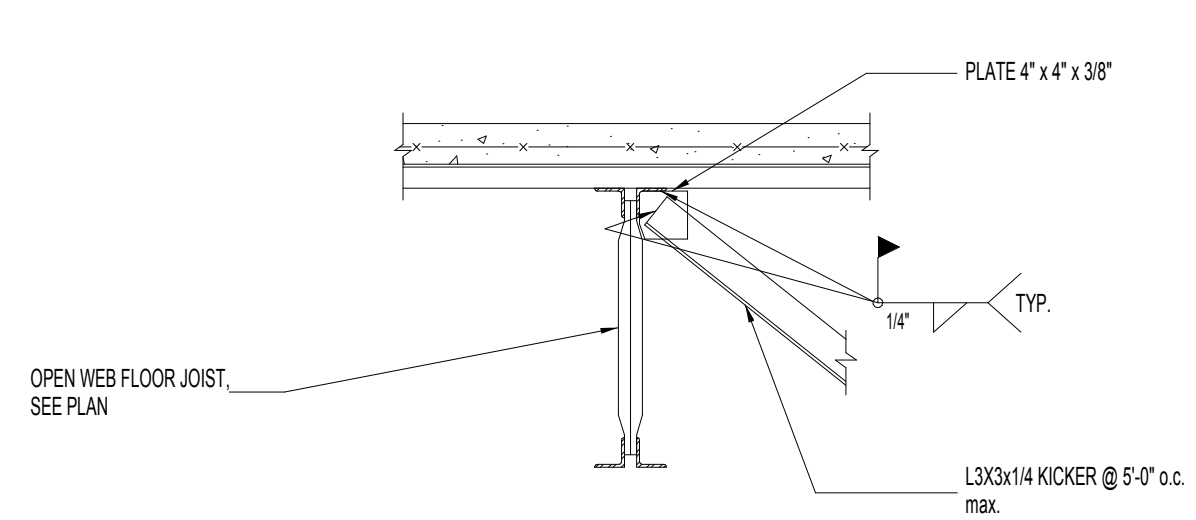
2 STEEL ROOF BEAM TO BEAM CONNECTION NO SCALE



3 TYPICAL 'LH' JOIST BEARING DETAIL AT STEEL BEAM NO SCALE



4 STEEL TUBE COLUMN BEARING ON STEEL BEAM NO SCALE



5 BRACE CONNECTION TO FLOOR JOIST DETAIL NO SCALE

Project Name:
The Vortex Business Center

Revision Schedule

No.	Description	Date

Sheet Name:
ROOF FRAMING DETAILS

SE522

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MARK	WIDTH	LEN.	THICK	CROSSWISE REINFORCING NO. SIZE LENGTH/SPACE	LONGITUDINAL REINFORCING NO. SIZE LENGTH/SPACE	REMARKS
FTS1.5	1'-6"	CONT.	12"	NONE REQUIRED	3 #4 CONT. 6"	
FTS2.0	2'-0"	CONT.	12"	NONE REQUIRED	3 #4 CONT. 9"	
FTS2.5	2'-6"	CONT.	12"	#5 2'-0" 14"	3 #5 CONT. 12"	
FTS3.0	3'-0"	CONT.	12"	#5 2'-6" 14"	3 #5 CONT. 15"	

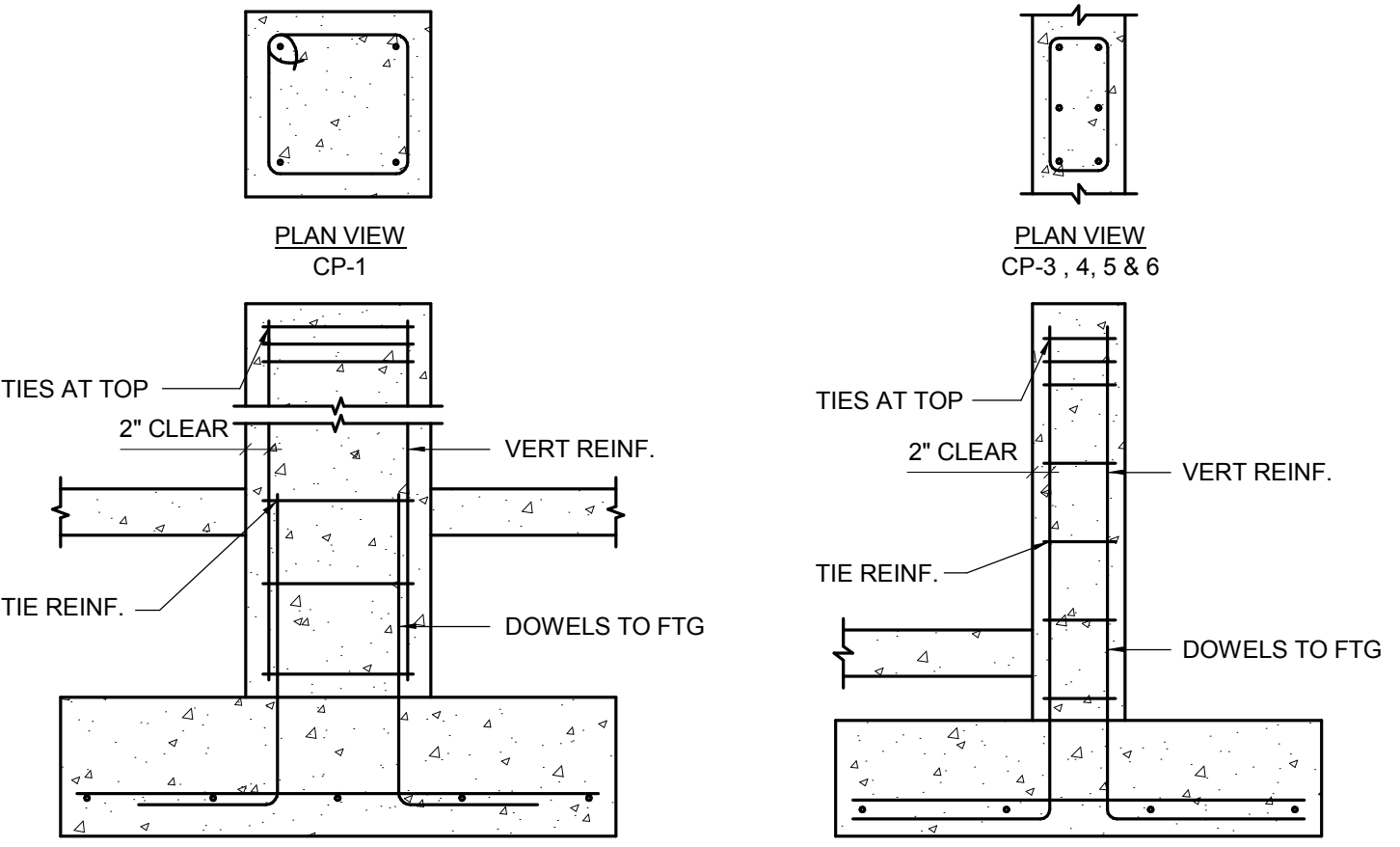
FC1.5	1'-6"	CONT.	12"	NONE REQUIRED	3 #4 CONT. 6"
FC2.0	2'-0"	CONT.	12"	NONE REQUIRED	3 #4 CONT. 9"
FC2.5	2'-6"	CONT.	12"	#5 2'-0" 14"	3 #5 CONT. 12"
FC3.0	3'-0"	CONT.	12"	#5 2'-6" 14"	3 #5 CONT. 15"
FC3.5	3'-6"	CONT.	12"	#5 3'-0" 14"	3 #5 CONT. 18"
FC4.0	4'-0"	CONT.	12"	#5 3'-6" 14"	4 #5 CONT. 14"
FC4.5	4'-6"	CONT.	12"	#5 4'-0" 14"	4 #5 CONT. 16"
FC5.0	5'-0"	CONT.	12"	#5 4'-6" 14"	5 #5 CONT. 13.5"
FC5.5	5'-6"	CONT.	12"	#5 5'-0" 14"	5 #5 CONT. 15"

FS2.0	2'-0"	2'-0"	12"				
FS3.0	2'-6"	2'-6"	12"				
FS3.0	3'-0"	3'-0"	12"	3 #5 2'-6" 15"	3 #5 2'-6" 15"		
FS3.5	3'-6"	3'-6"	12"	3 #5 3'-0" 18"	3 #5 3'-0" 18"		
FS4.0	4'-0"	4'-0"	12"	4 #5 3'-6" 14"	4 #5 3'-6" 14"		
FS4.5	4'-6"	4'-6"	12"	4 #5 4'-0" 16"	4 #5 4'-0" 16"		
FS5.0	5'-0"	5'-0"	12"	5 #5 4'-6" 13.5"	5 #5 4'-6" 13.5"		
FS5.5	5'-6"	5'-6"	12"	5 #5 5'-0" 15"	5 #5 5'-0" 15"		
FS6.0	6'-0"	6'-0"	12"	6 #5 5'-6" 13.2"	6 #5 5'-6" 13.2"		
FS6.5	6'-6"	6'-6"	13"	6 #5 6'-0" 14.4"	6 #5 6'-0" 14.4"		
FS7.0	7'-0"	7'-0"	14"	7 #5 6'-6" 13"	7 #5 6'-6" 13"		
FS7.5	7'-6"	7'-6"	14"	8 #5 7'-0" 12"	8 #5 7'-0" 12"		
FS8.0	8'-0"	8'-0"	15"	7 #6 7'-6" 15"	7 #6 7'-6" 15"		
FS8.5	8'-6"	8'-6"	16"	7 #6 8'-0" 16"	7 #6 8'-0" 16"		
FS9.0	9'-0"	9'-0"	17"	8 #6 8'-6" 14.5"	8 #6 8'-6" 14.5"		

NOTES:
 1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER U.O.
 2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING W/ 2" CLEAR CONCRETE COVER.
 3. THE SCHEDULED FOOTINGS ARE NOT NECESSARILY ALL USED.
 4. FTS-THICKENED SLAB FOOTING
 FC-CONTINUOUS FOOTING
 FS-SQUARE FOOTING
 FR-RECTANGULAR FOOTING
 FM-MAT FOOTING WITH REINFORCING TOP AND BOTTOM

CONCRETE FOOTING SCHEDULE

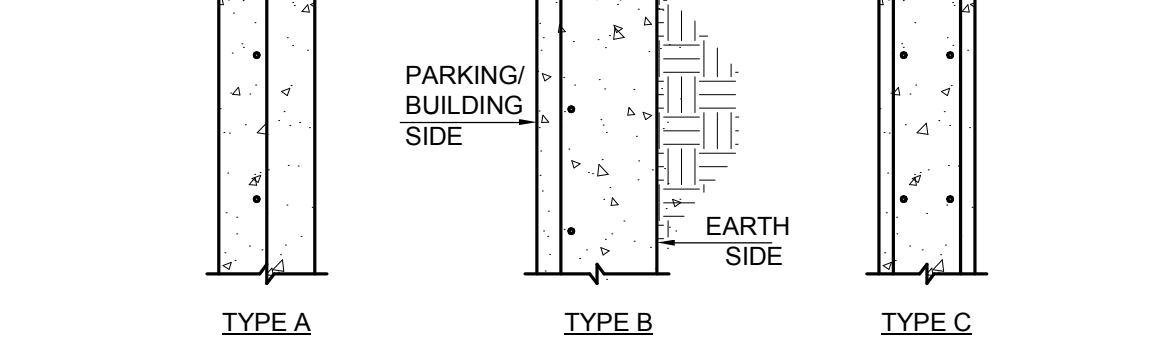
MARK	DIMS.	VERT. REINF.	DOWELS TO FTG.	TIE REINF.	TIES AT TOP
CP-1	10"x10"	FULL HGT DOWELS	(4) #4	#4 AT 12" o.c.	(3) #3 AT 2" o.c.
CP-2	24" DIA	(8) #8	(8) #8	#4 AT 12" o.c.	(3) #3 AT 2" o.c.
CP-3	10"x24"	(6) #6	(6) #6	#3 AT 10" o.c.	(3) #3 AT 2" o.c.
CP-4	8"x18"	(6) #6	(6) #6	#3 AT 8" o.c.	(3) #3 AT 2" o.c.
CP-5	8"x24"	(6) #6	(6) #6	#4 AT 8" o.c.	(3) #4 AT 2" o.c.
CP-6	10"x16"	(6) #6	(6) #6	#4 AT 8" o.c.	(3) #4 AT 2" o.c.



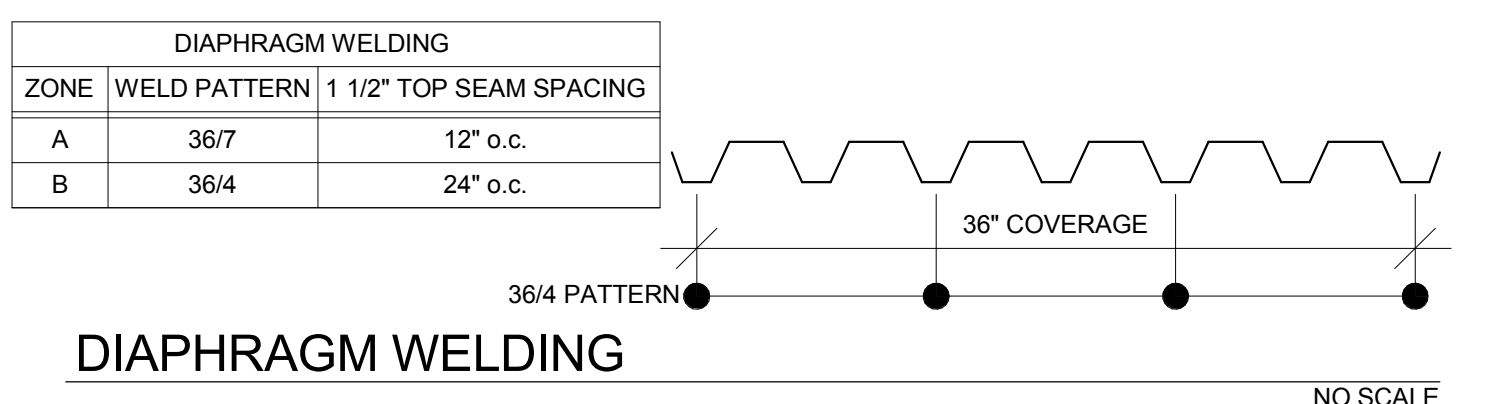
CONCRETE COLUMN SCHEDULE

MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	TOP & BOTTOM	TYPE	COMMENTS
CW-1	8"	#4 AT 12" o.c.	#4 AT 12" o.c.	(1) #5 X CONT.	A	(1)
CW-2	8"	#5 AT 16" o.c.	#4 AT 12" o.c.	(1) #5 X CONT.	A	(1)
CW-3	8"	#4 AT 12" o.c.	#4 AT 12" o.c.	(1) #5 X CONT.	B	(1)
CW-4	10"	#5 AT 16" o.c.	#4 AT 12" o.c.	(1) #5 X CONT.	C	EA. FACE (1)
CW-5	10"	#6 AT 11" o.c.	#5 AT 12" o.c.	(1) #5 X CONT.	A	
CW-6	10"	#5 AT 10" o.c.	#5 AT 12" o.c.	(1) #5 X CONT.	B	(1)
CW-7	8"	#6 AT 10" o.c.	#5 AT 12" o.c.	(1) #5 X CONT.	B	(1)
CW-8	6"	#4 AT 16" o.c.	#4 AT 12" o.c.	(1) #5 X CONT.	A	

NOTES:
 1. EXTEND VERTICAL REINFORCEMENT UP INTO MASONRY WALL ABOVE AND USE AS DOWELS FOR THE MASONRY WALL. SPLICE WITH MASONRY WALL REINFORCEMENT PER MASONRY REINFORCEMENT LAP SCHEDULE ON S601.
 2. WALLS OVER 8'-0" IN HEIGHT: DO NOT INSTALL FORMS UNTIL REBAR INSPECTION HAS OCCURRED.
 3. INSTALL VERTICAL REINFORCING 1 1/2" OFF INSIDE FACE OF WALL.
 4. DO NOT BACKFILL AGAINST WALL PRIOR TO INSTALLING FIRST FLOOR DIAPHRAGM.

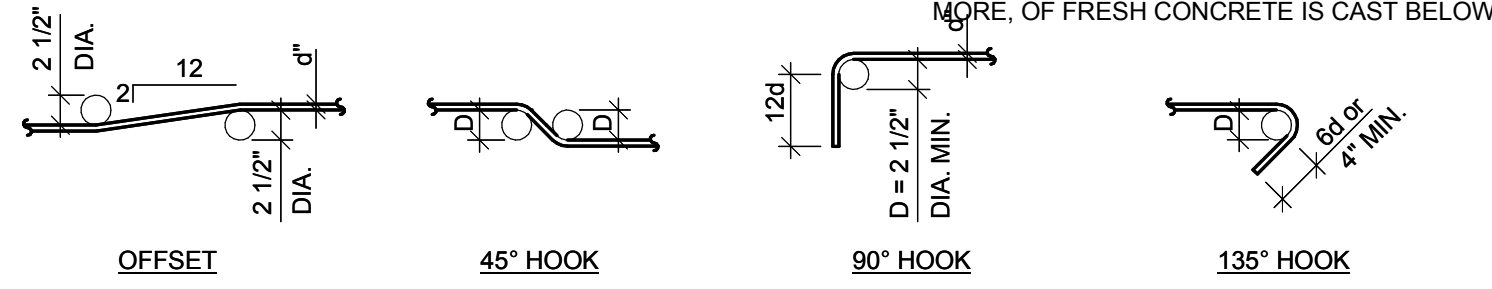


CONCRETE WALL SCHEDULE



DIAPHRAGM WELDING

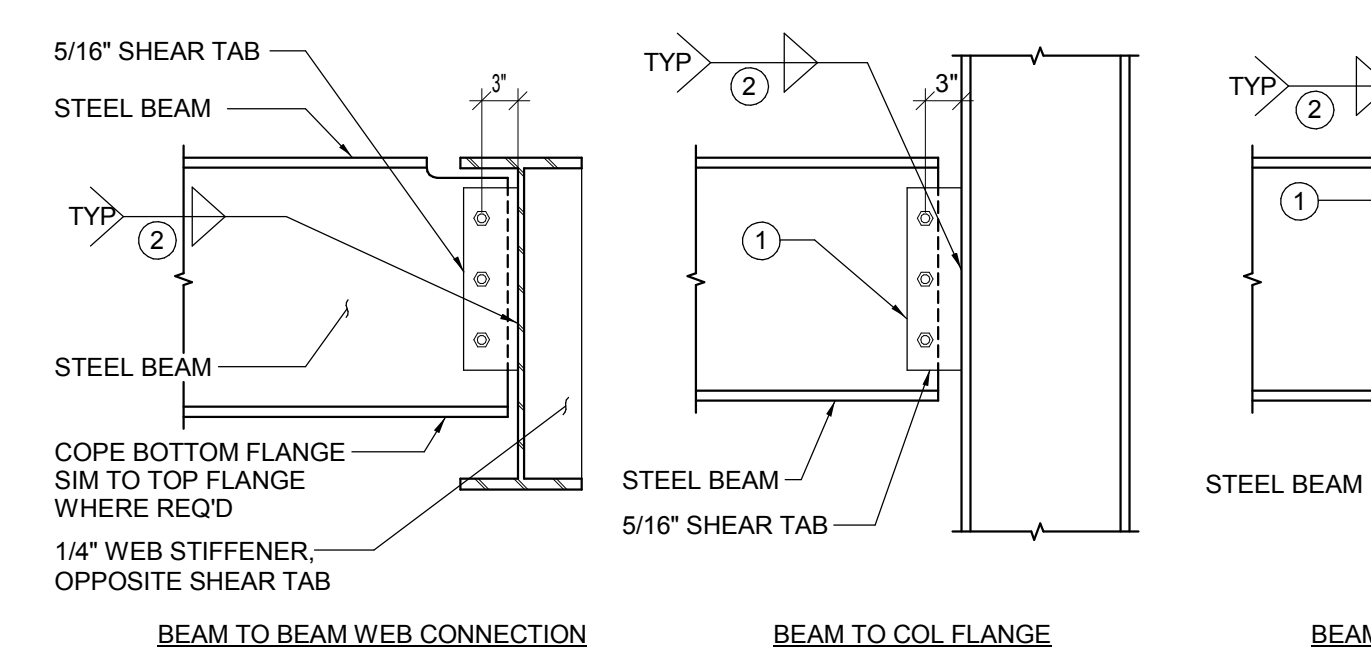
BAR SIZE	f _c = 3000 PSI		f _c = 4000 PSI		f _c = 5000 PSI		f _c = 6000 PSI	
	REG.	TOP	REG.	TOP	REG.	TOP	REG.	TOP
#3	13"	17"	17"	21"	17"	21"	17"	21"
#4	16"	24"	21"	28"	21"	28"	21"	28"
#5	22"	29"	29"	36"	29"	36"	29"	36"
#6	27"	36"	36"	44"	36"	44"	36"	44"
#7	39"	51"	51"	60"	51"	60"	51"	60"
#8	49"	64"	64"	77"	64"	77"	64"	77"
#9	62"	80"	80"	94"	80"	94"	80"	94"
#10	78"	102"	102"	122"	102"	122"	102"	122"
#11	96"	125"	125"	151"	125"	151"	125"	151"



CONCRETE REBAR LAP SPLICE SCHEDULE

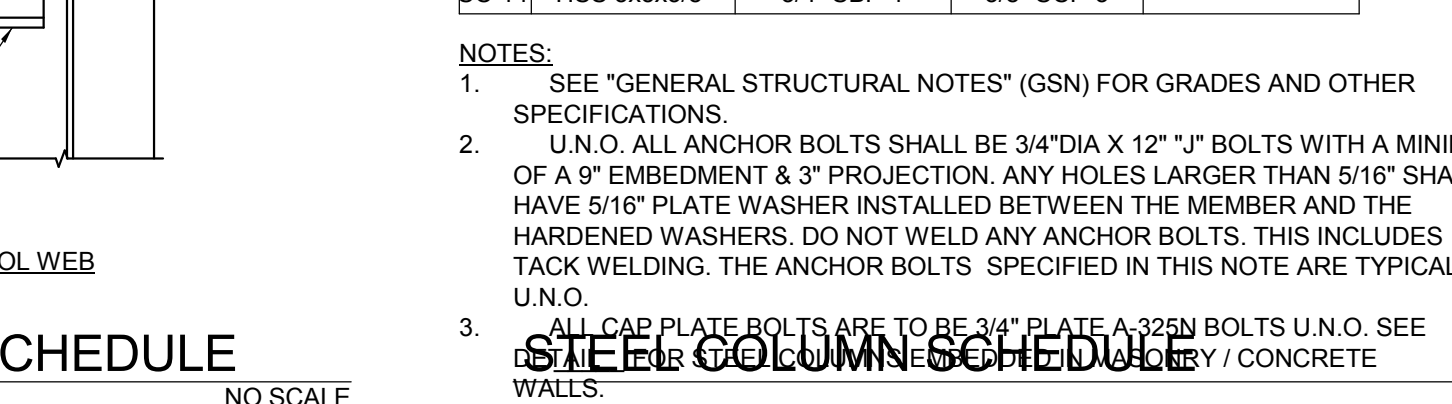
A-325 BOLT SCHEDULE

MAX. BEAM SIZE IN EACH BEAM DEPTH GROUP	No. PER BEAM	SIZE
W10	2	7/8" DIA
W12	3	7/8" DIA
W14	3	7/8" DIA
W16	4	7/8" DIA
W18	5	7/8" DIA
W21	6	7/8" DIA

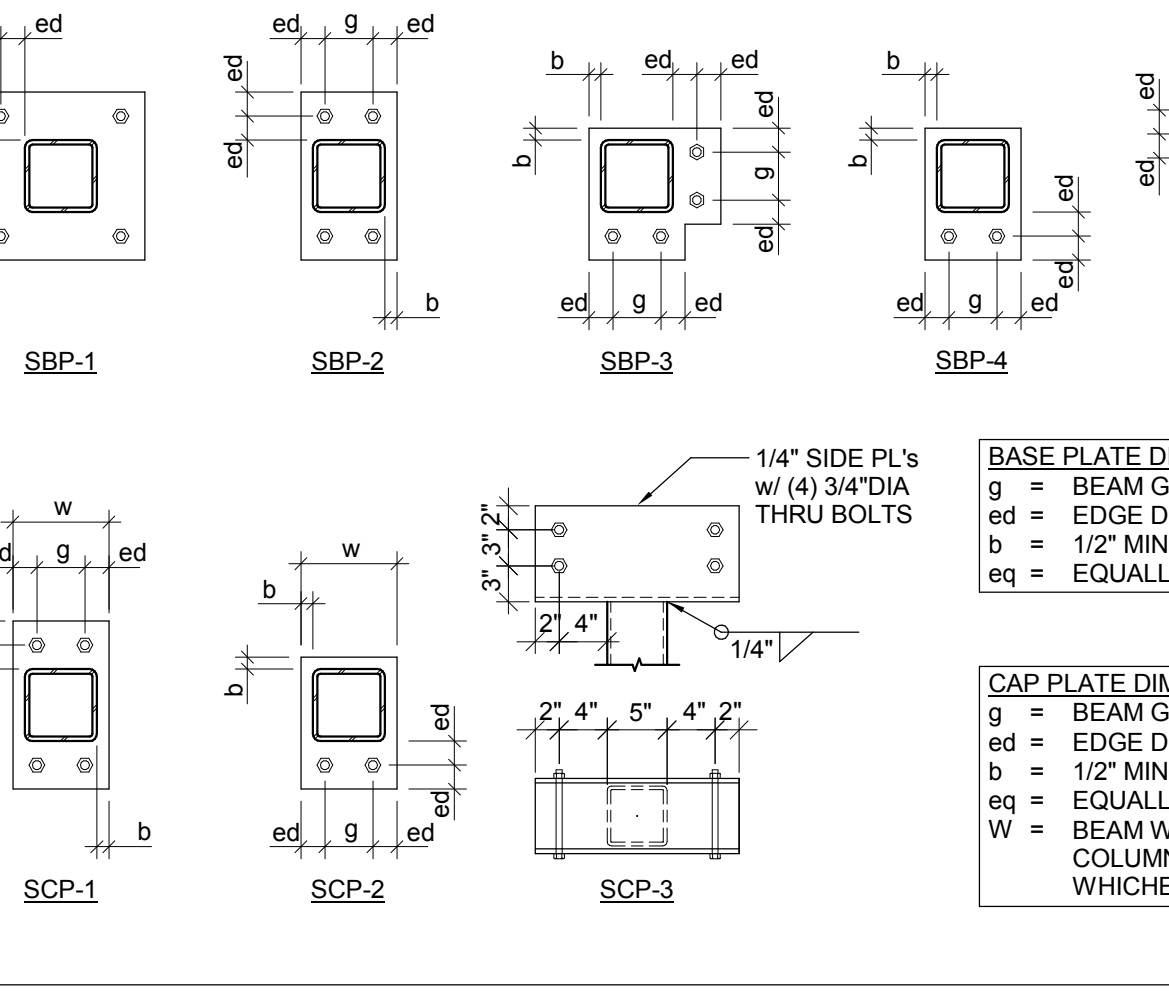


TYPICAL BOLTED WEB PLATE CONNECTIONS W/ BOLT SCHEDULE (SINGLE SHEAR)

MARK	COLUMN SIZE	STEEL BASE PL	STEEL CAP PL	COMMENTS
SC-1	HSS 6x6x1/8"	3/4" SBP-1	1/4" CAP PL	
SC-2	HSS 8x8x5/8"	1 1/4" SBP-1	1" SCP-1	
SC-3	HSS 4x4x3/8"	3/4" SBP-2	1/4" CAP PL	
SC-4	HSS 5x5x3/8"	3/4" SBP-2	1/4" CAP PL	
SC-5	HSS 5x5x1/4"	3/4" SBP-3	1/4" CAP PL	
SC-6	HSS 5x5x1/4"	3/4" SBP-2	1/4" CAP PL	
SC-7	HSS 5x5x1/4"	3/4" SBP-4	1/4" CAP PL	
SC-8	HSS 5x5x1/4"	3/4" SBP-2	1/4" CAP PL	
SC-9	HSS 5x5x1/4"	3/4" SBP-1	1/4" CAP PL	
SC-10	HSS 5x5x1/4"	3/4" SBP-3	1/4" CAP PL	
SC-11	HSS 6x3x1/4"	3/4" SBP-5	1/2" SCP-1	
SC-12	HSS 4x4x5/16"	3/4" SBP-3	1/2" SCP-1	
SC-13	HSS 5x5x5/16"	3/4" SBP-1	3/8" SCP-3	
SC-14	HSS 5x5x3/8"	3/4" SBP-1	3/8" SCP-3	



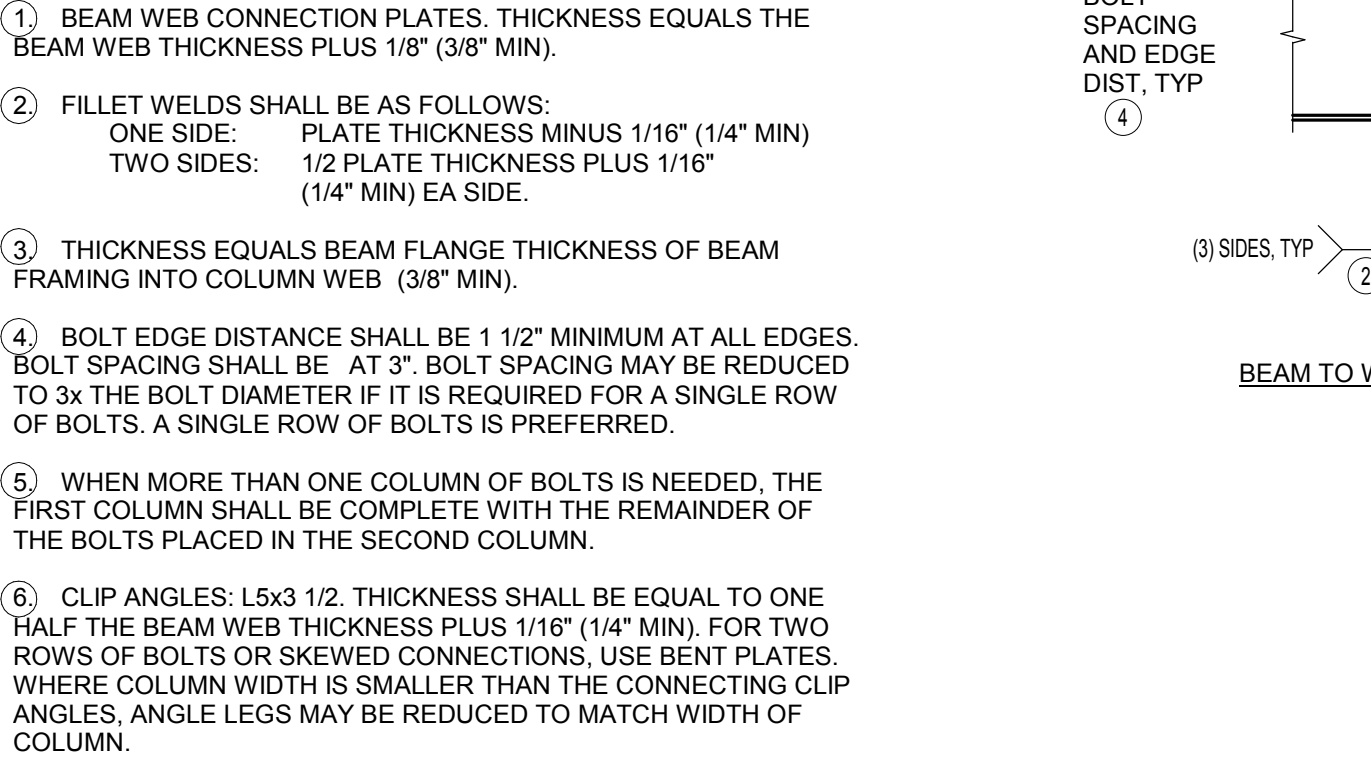
STEEL COLUMN SCHEDULE



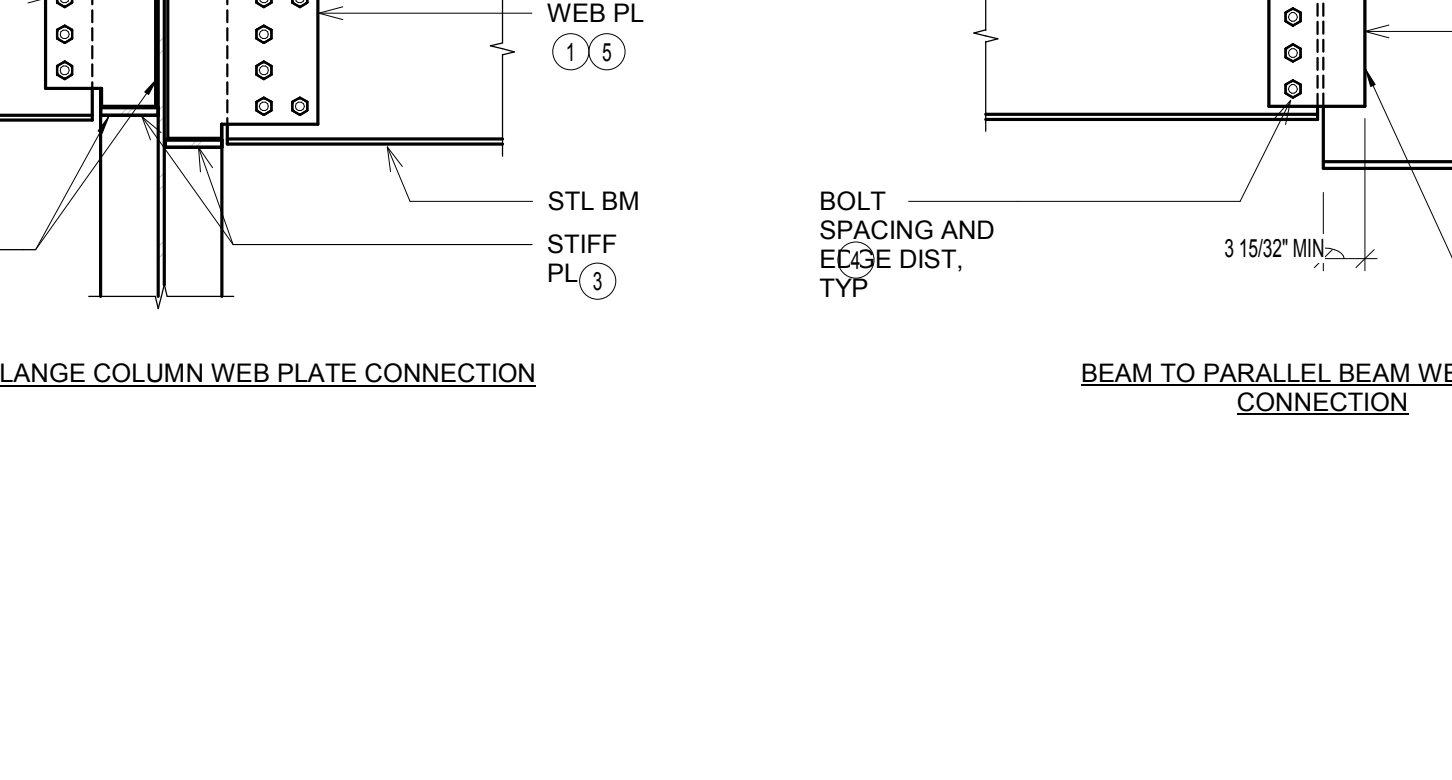
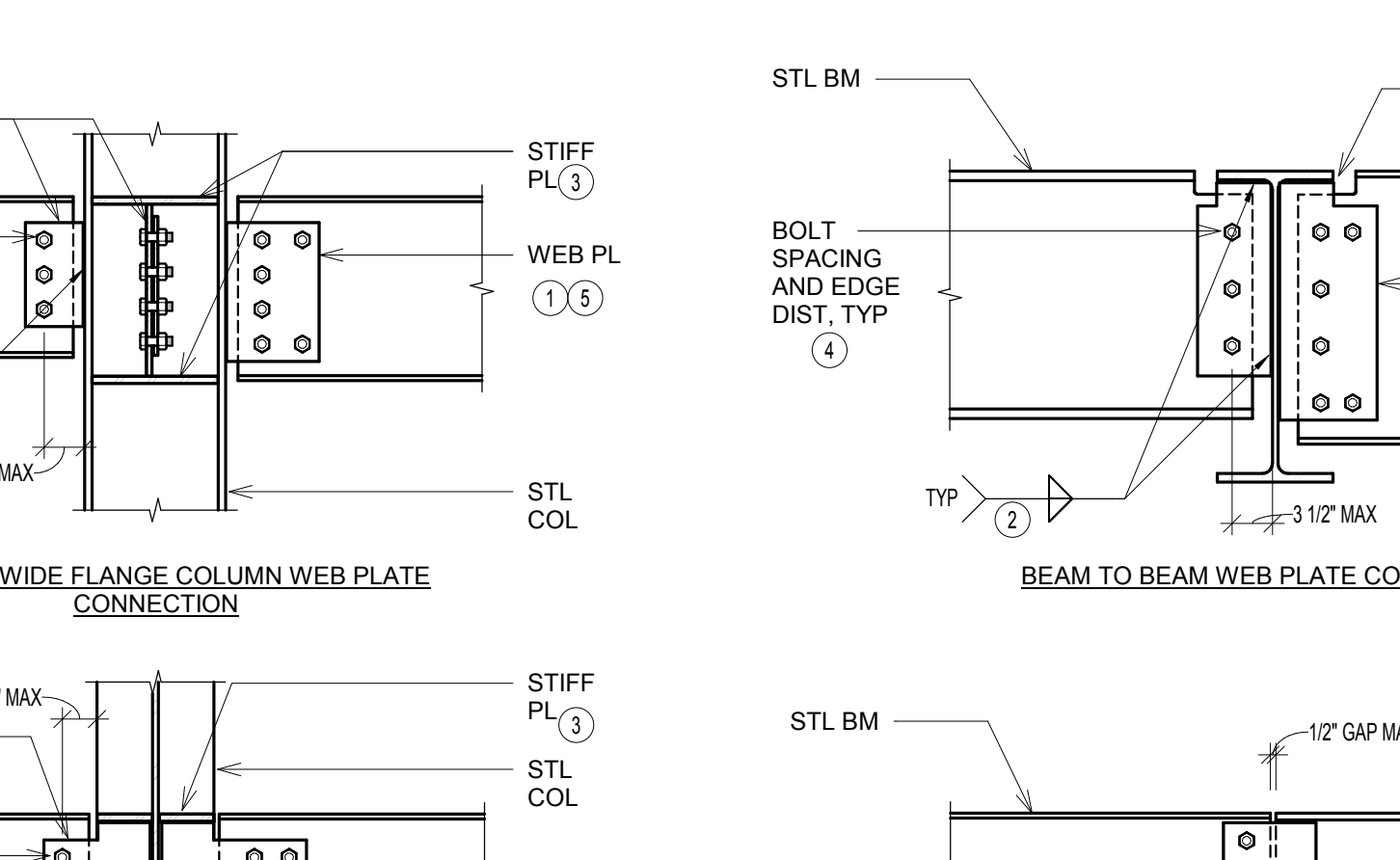
CONCRETE GRADE BEAM SCHEDULE

A-325 BOLT SCHEDULE

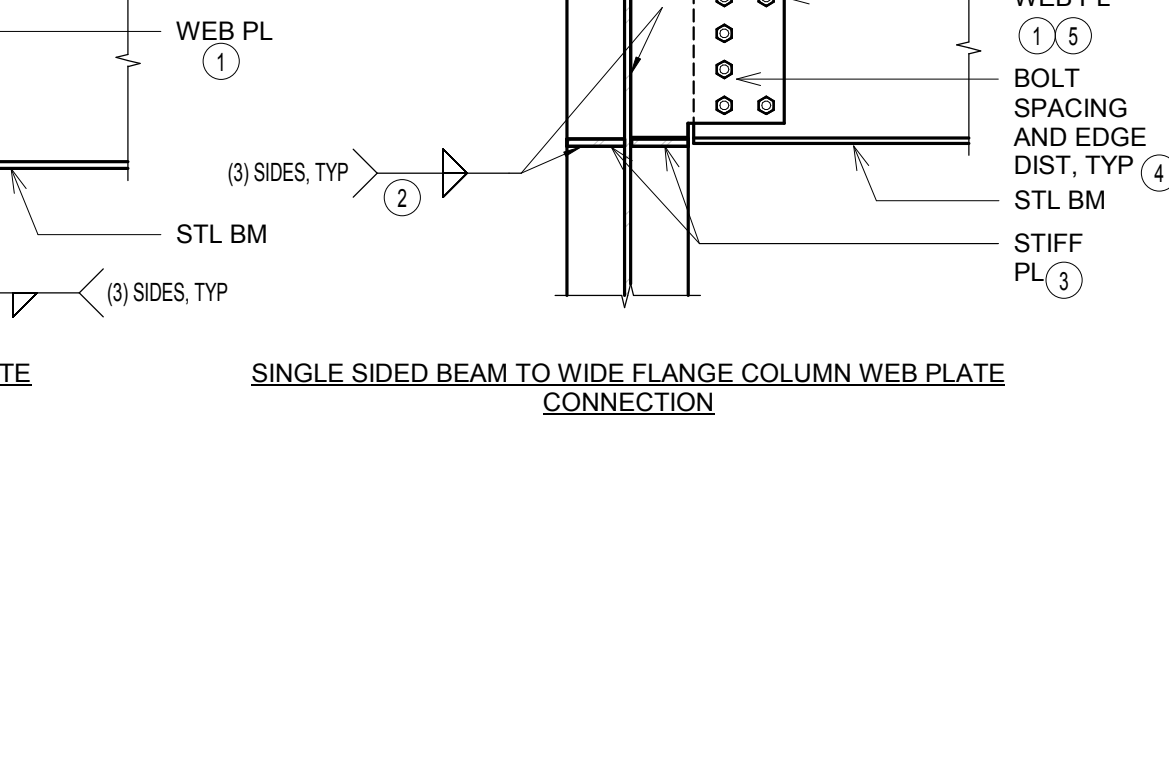
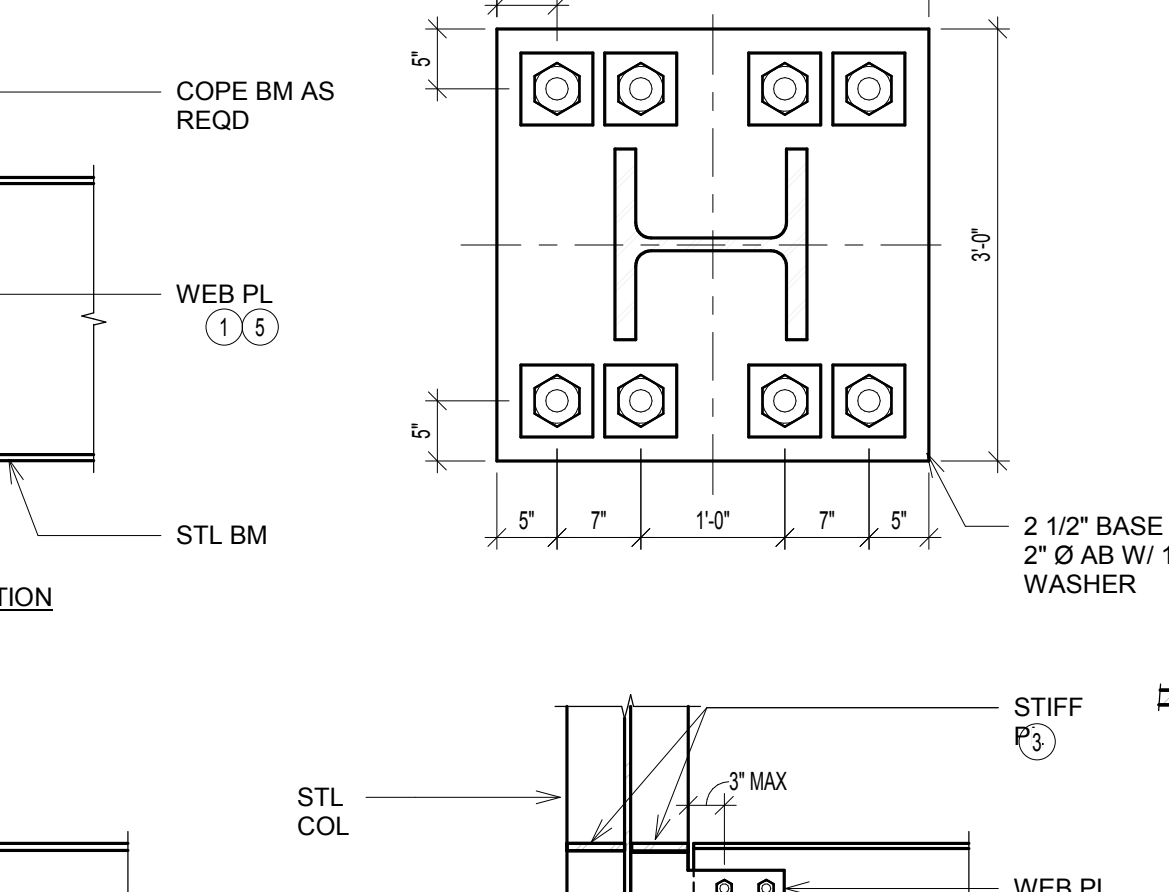
MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP	No. PER BEAM	SIZE
W8	2	7/8"
W10	2	7/8"
W12	3	7/8"
W14	3	7/8"
W16	4	7/8"
W18	5	7/8"
W21	6	7/8"
W24	6	7/8"
W27	7	7/8"
W30	8	7/8"
W33	9	7/8"
W36	10	7/8"
W40	11	7/8"
W44	12	7/8"



TYPICAL BOLTED WEB PLATE CONNECTIONS W/ BOLT SCHEDULE (SINGLE SHEAR)



STEEL COLUMN SCHEDULE

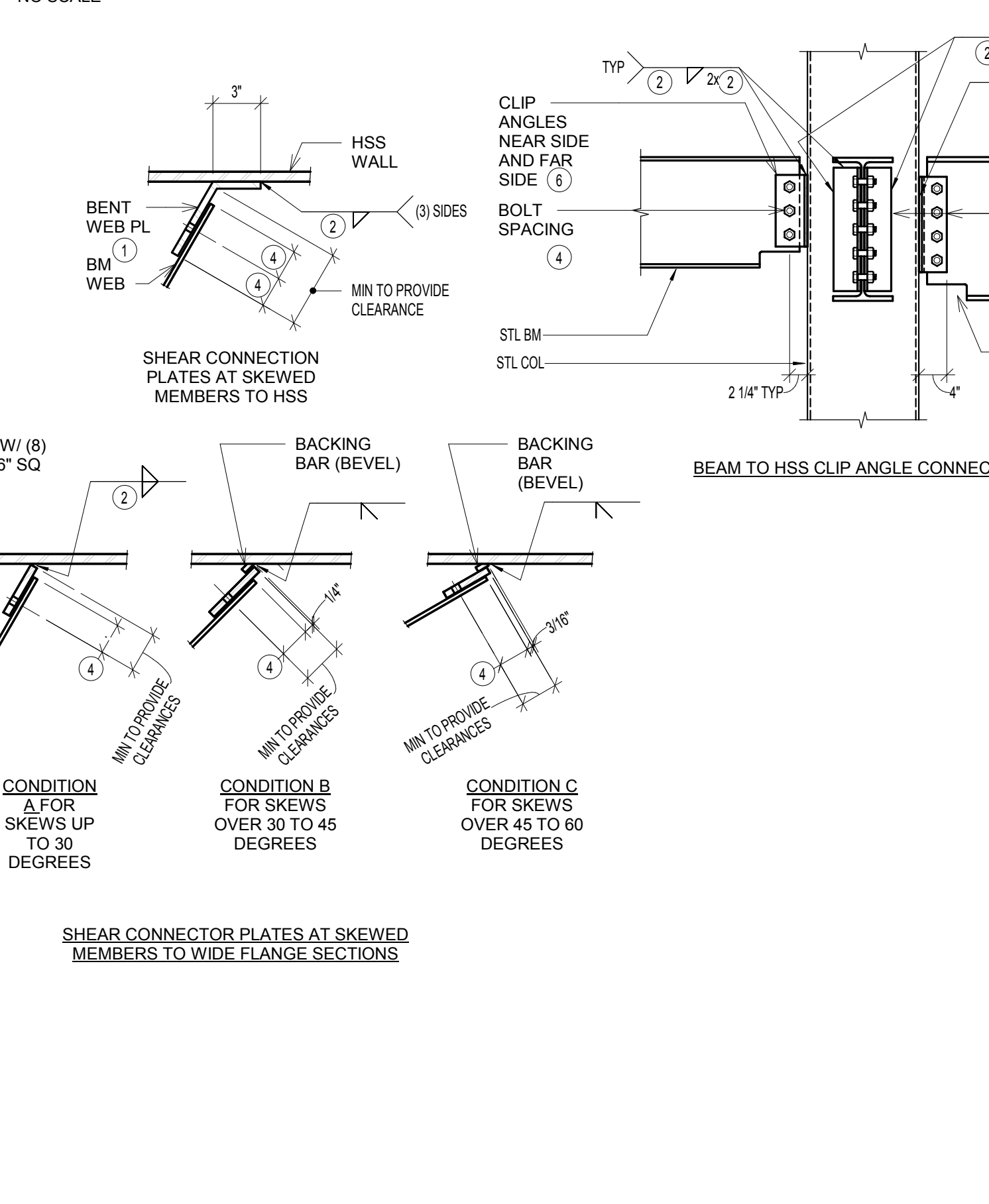


CONCRETE GRADE BEAM SCHEDULE

CONCRETE GRADE BEAM SCHEDULE

MARK	BEAM SIZE (WIDTH X DEPTH)	REINFORCING		COMMENTS
		HORIZONTAL	STIRRUPS	
GB-1	"x"	(_)#_ TOP AND BOT	#_ AT _" o.c.	
GB-x	"x"	(_)#_ TOP AND BOT	#_ AT _" o.c.	
GB-x	"x"	(_)#_ TOP AND BOT	#_ AT _" o.c.	
GB-x	"x"	(_)#_ TOP AND BOT	#_ AT _" o.c.	

CONCRETE GRADE BEAM NOTES:
 1. ALL TOP BAR SPLICES SHALL BE MADE AT SPAN CENTERLINE.
 2. ALL BOTTOM BAR SPLICES SHALL BE MADE AT SUPPORTS.
 3. HOOK ALL TOP AND BOTTOM BARS AT BEAM ENDS.
 4. FURNISH REINFORCING HORIZONTAL BARS AT 16" o.c. CONTINUOUS, SPACED EQUALLY BETWEEN TOP AND BOTTOM BARS.
 5. PLACE 4" COLLAPSIBLE CARDBOARD FORM CONTINUOUS BELOW ALL GRADE BEAMS.
 6. FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT MECHANICAL OPENINGS THROUGH GRADE BEAMS, SEE FOUNDATION DETAILS.
 7. WHEN GRADE BEAMS OF DIFFERENT SIZES ARE USED ON THE SAME BEAM LINE, CARRY HORIZONTAL REINFORCING OF SMALLER BEAM INTO LARGER BEAM AND LAP HORIZONTAL REINFORCING OF LARGER BEAM 8 BAR DIAMETERS.



STEEL COLUMN SCHEDULE

PROCORE
 6309 CARPINTERIA AVE
 CARPINTERIA, CA 93913
 866.477.6387 | www.Procore.com

AVANDELAY ARCHITECTURE
 ARCHITECT

STRUCTURAL ENGINEER

SCHRODINGER'S CAT
 ENGINEERING
 MECHANICAL ENGINEER

ELECTRICAL SOLUTION ENGINEERING LLC
 ELECTRICAL ENGINEER

Cn3D CONSTRUCTION
 CONTRACTOR

ART VANDELAY
 ART

Project Name: **The Vortex Business Center**

Revision Schedule

No.	Description	Date

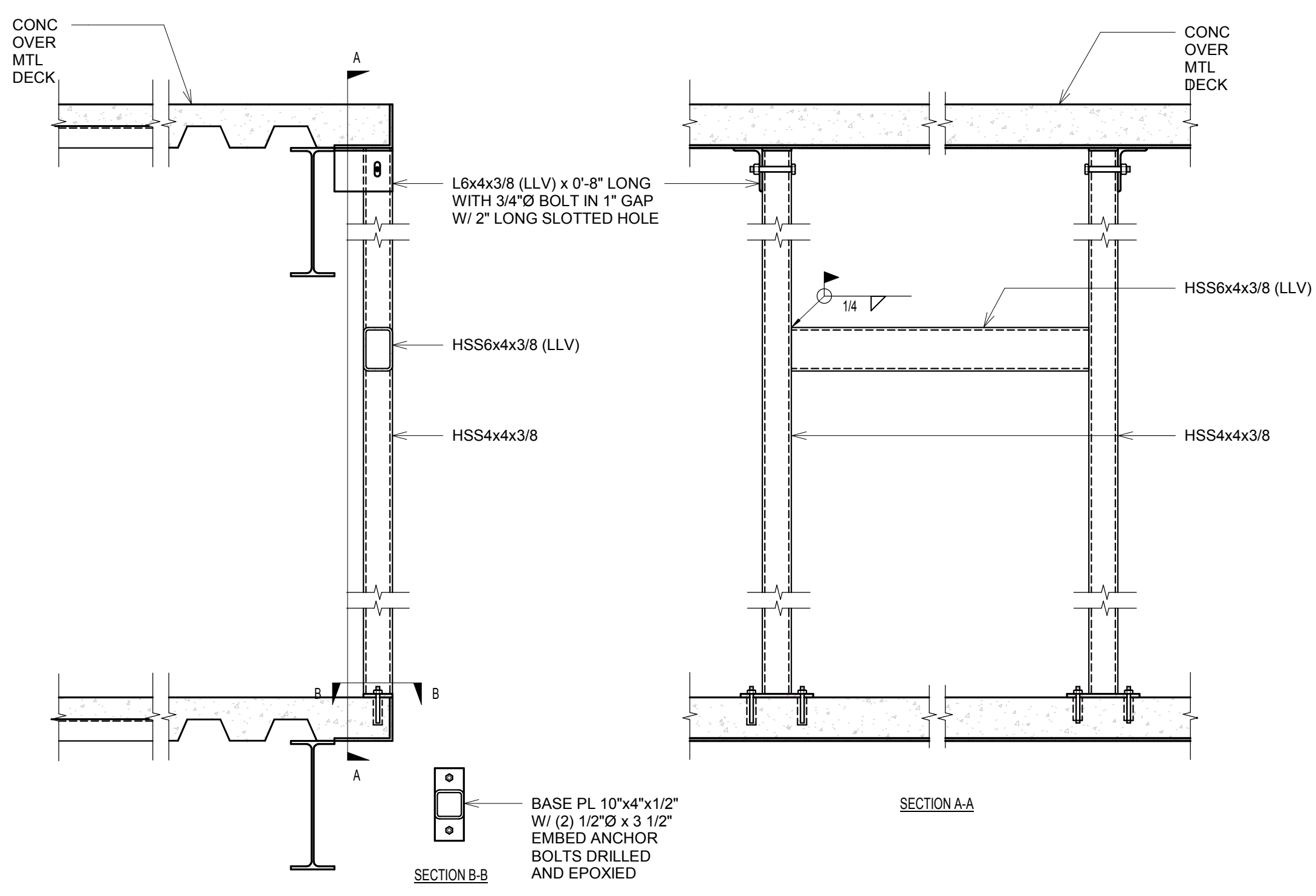
Sheet Name: **STRUCTURAL SCHEDULES**

SE601

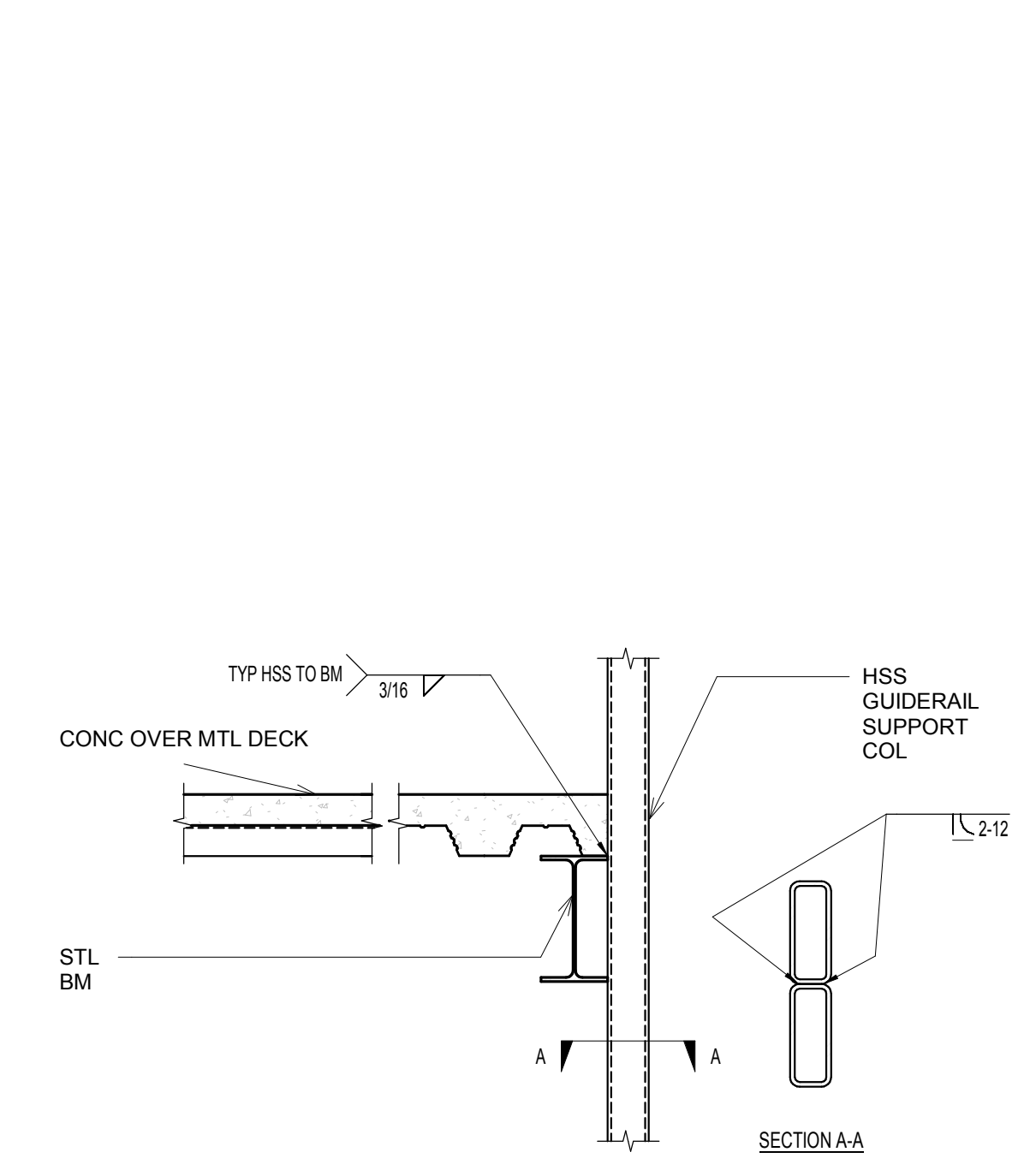
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GRAPHICAL COLUMN SCHEDULE

Column Locations	Level 0	Level 1	Level 2	Level 3	Penthouse	High Roof
A-1	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
C(-2-578')-1	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
E-1	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
E-3	30"x30"	W14x90	W12x72	W10x60	W10x60	W10x60
G-1	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
G-3	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
J-1	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
J-3	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
L-1	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
L-3	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
Z1-3	30"x30"	W14x90	W12x72	W10x60	W10x60	W10x60
Z1-6	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
Z1(1'-4 3/4")-6		HSS3-1/2x3-1/2x3/16	HSS3-1/2x3-1/2x3/16			
AA(1'-5 1/4")-5.4		HSS3-1/2x3-1/2x3/16	HSS3-1/2x3-1/2x3/16			
BB(2'-8 3/4")-5.4		HSS3-1/2x3-1/2x3/16	HSS3-1/2x3-1/2x3/16			
BB(2'-8 3/4")-6		HSS3-1/2x3-1/2x3/16	HSS3-1/2x3-1/2x3/16			
BB-6.3			HSS5-1/2x5-1/2x3/8			HSS6x14
CC-4	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
CC-5.4			HSS3-1/2x3-1/2x3/16			HSS6x14
CC(-5'-1 1/4")-5.4			HSS3-1/2x3-1/2x3/16			
CC-6	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
CC(-5'-1 1/4")-6			HSS3-1/2x3-1/2x3/16			
CC-6.3			HSS5-1/2x5-1/2x3/8			HSS6x14
DD-6.3			HSS5-1/2x5-1/2x3/8			HSS6x14
EE-4	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
EE-5.4			HSS5-1/2x5-1/2x3/8			HSS6x14
EE-6	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
EE-6.3			HSS5-1/2x5-1/2x3/8			HSS6x14
FF-6.3			HSS5-1/2x5-1/2x3/8			HSS6x14
FF-5.4			HSS5-1/2x5-1/2x3/8			HSS6x14
FF-5.5.4						HSS6x14
GG-4	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
GG-6	30"x30"	W12x72	W12x72	W10x60	W10x60	W10x60
3-4	24"x30"	W14x90	W12x72	W10x60	W10x60	W10x60



1 TYPICAL ELEVATOR SUPPORT
3/4" = 1'-0"



2 ELEVATOR GUIDE RAIL BYPASS DETAIL
3/4" = 1'-0"

Project Name:
The Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
GRAPHICAL COLUMN SCHEDULE

SE602

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SHEET INDEX		
Sheet Number	Sheet Name	Sheet Issue Date
ME001	MECHANICAL HVAC DETAILS AND SCHEDULES	10/11/2016
ME401	ENLARGED MECHANICAL ROOM PLAN	10/11/2016
MH101	OVERALL MECHANICAL PLAN LEVEL 01	10/11/2016
MH102	OVERALL MECHANICAL PLAN LEVEL 02	10/11/2016
MH103	OVERALL MECHANICAL PLAN LEVEL 03	10/11/2016

EXHAUST FAN SCHEDULE				
EQUIP TAG	MANUFACTURER	MODEL	VOLTAGE	
EF-1	SQUELCH	JB-234GX		120/3/60

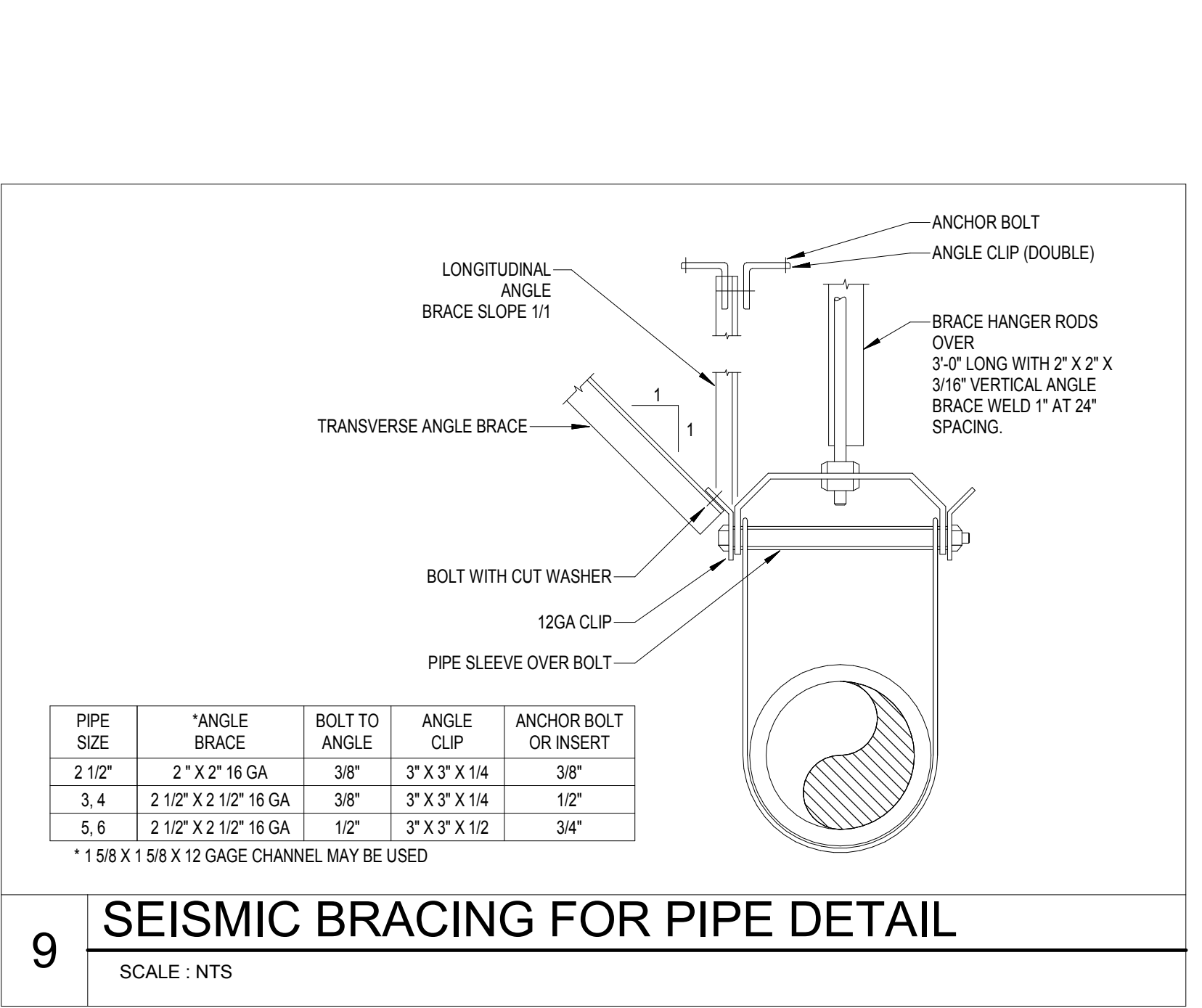
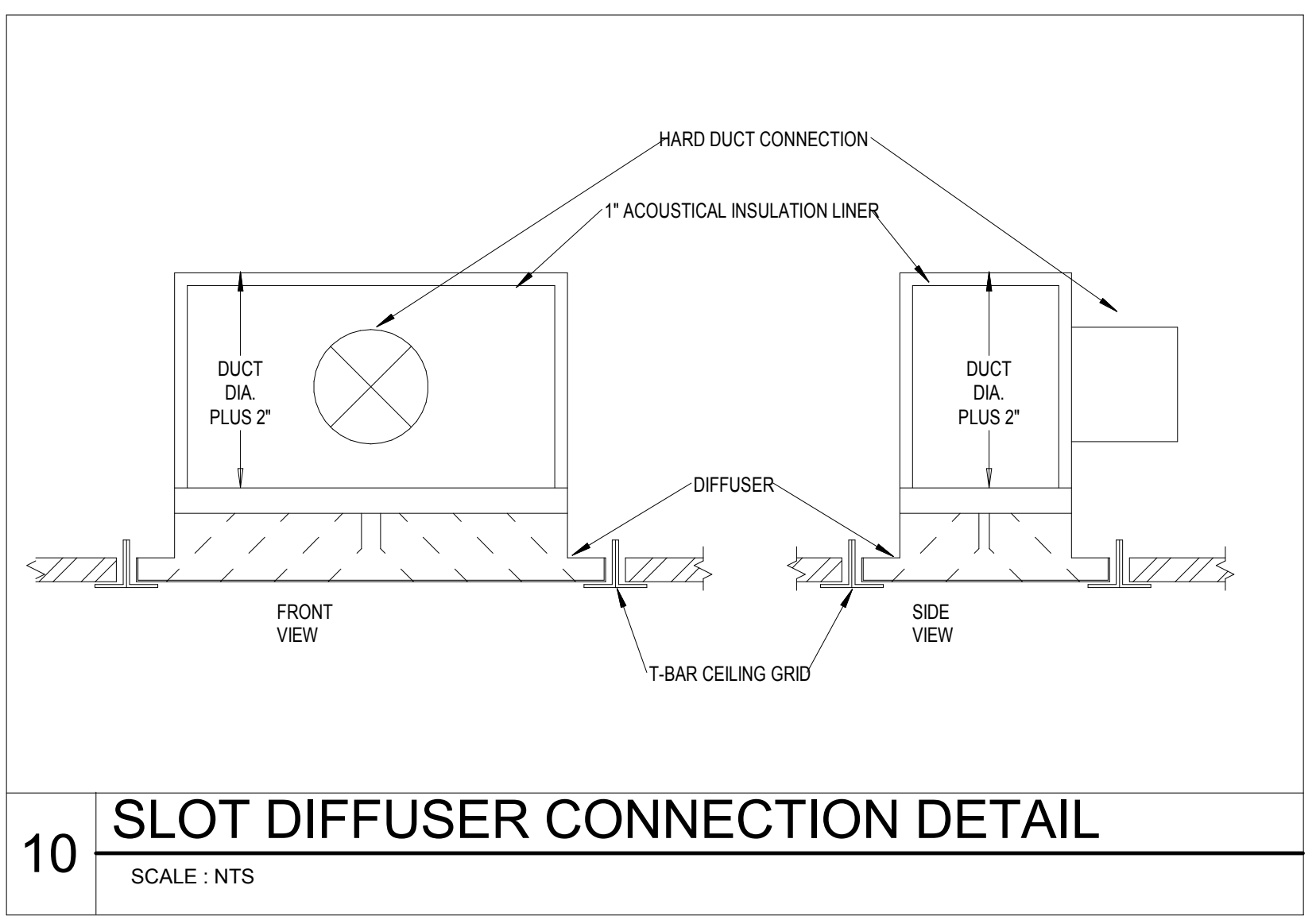
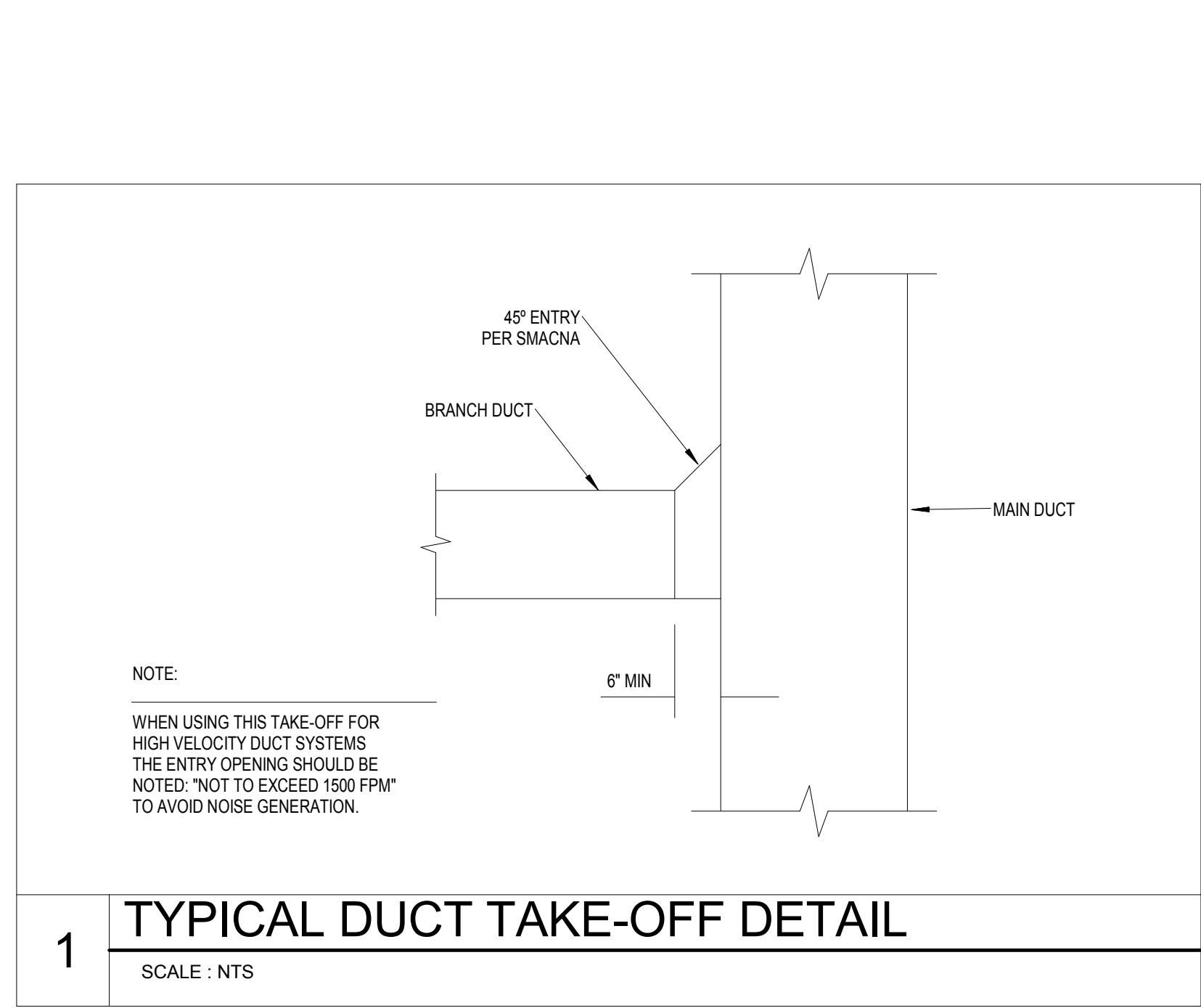
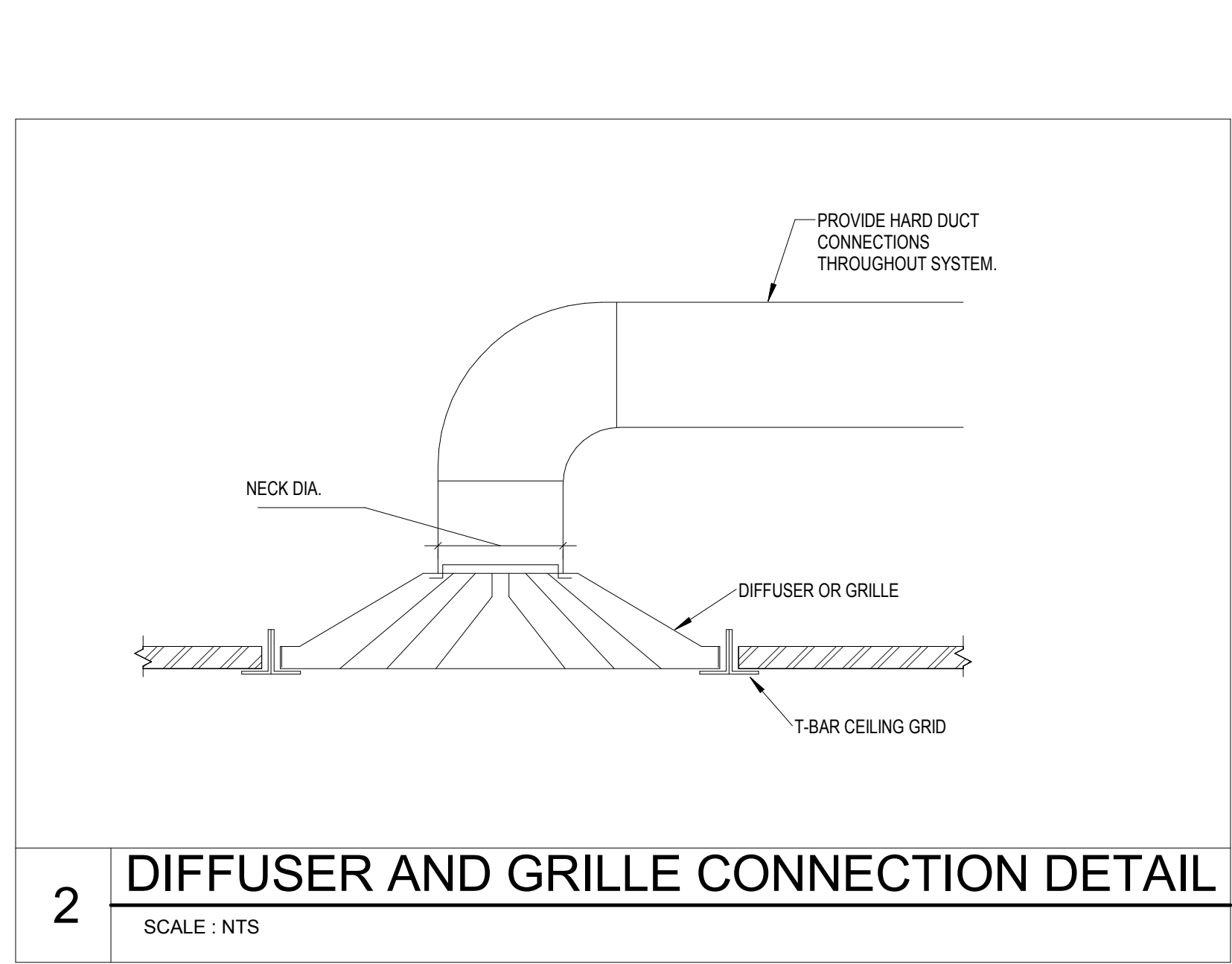
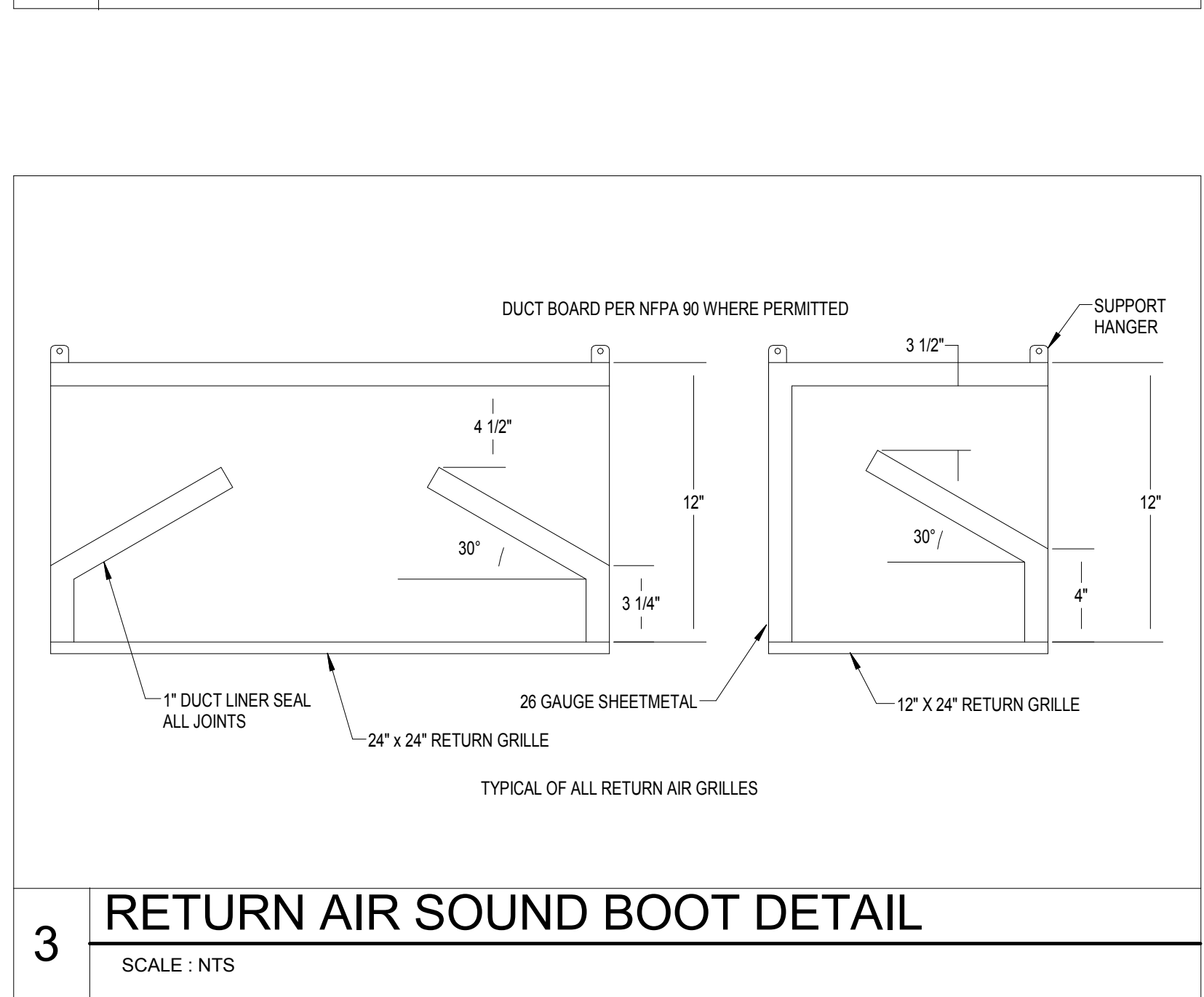
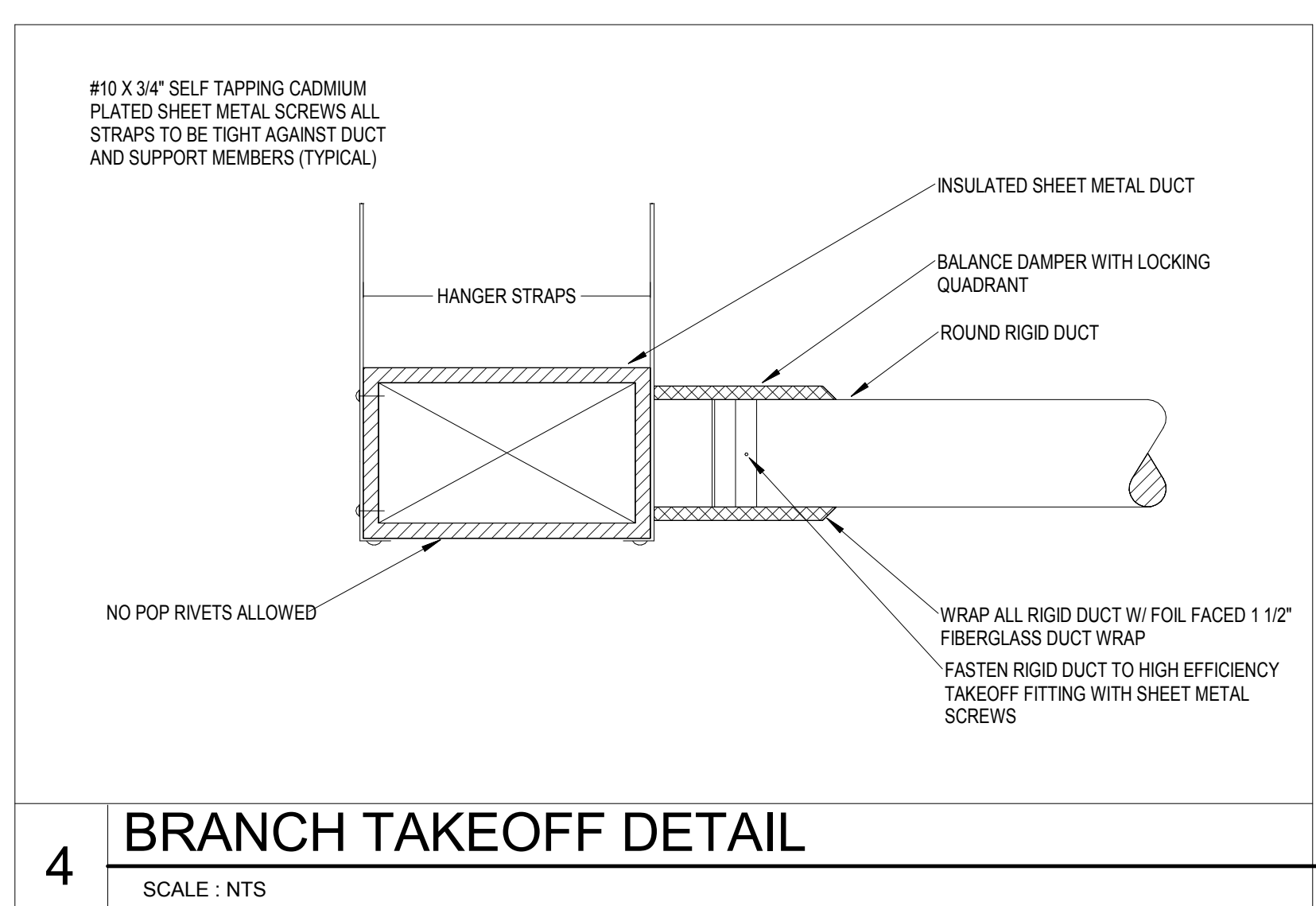
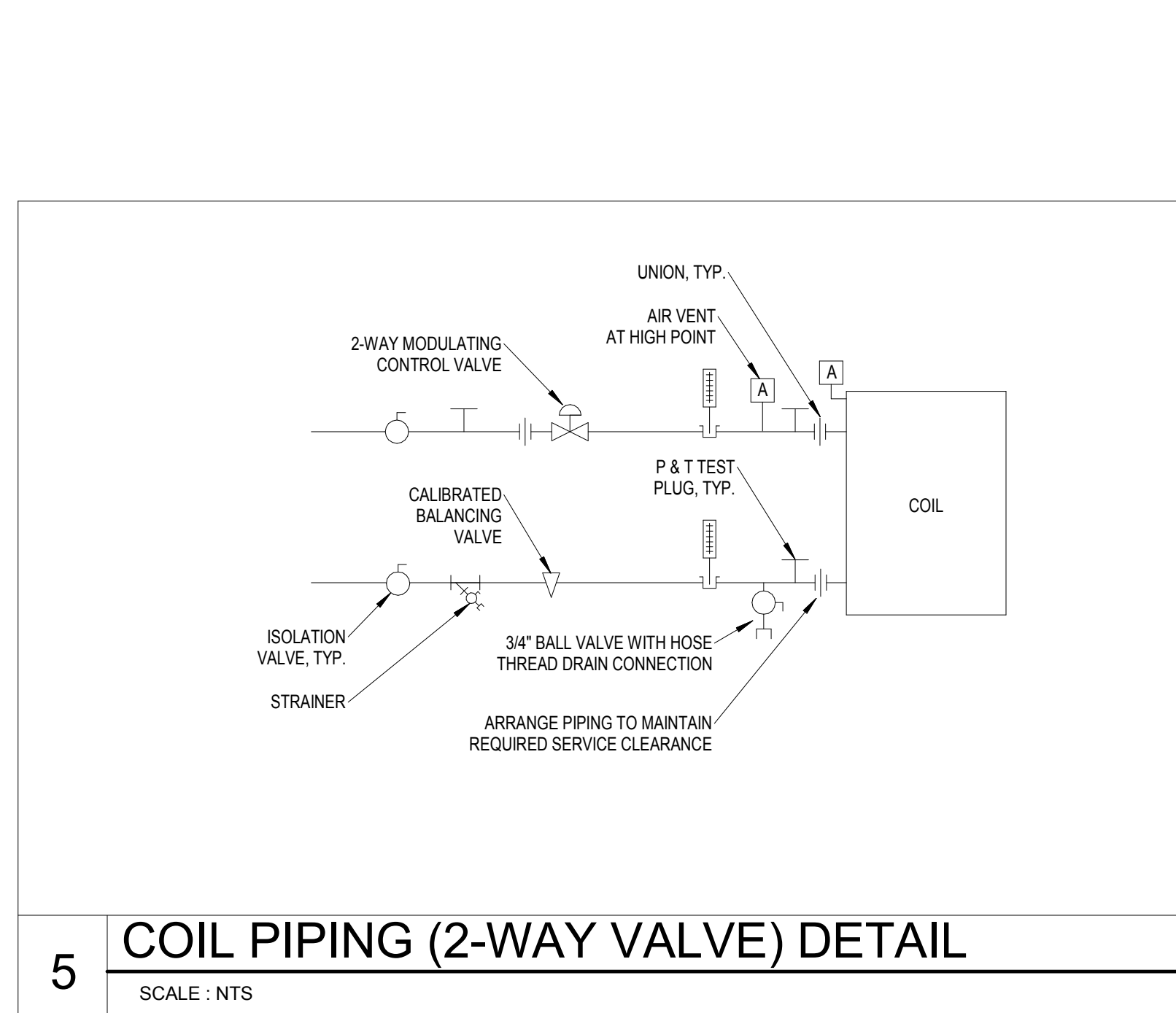
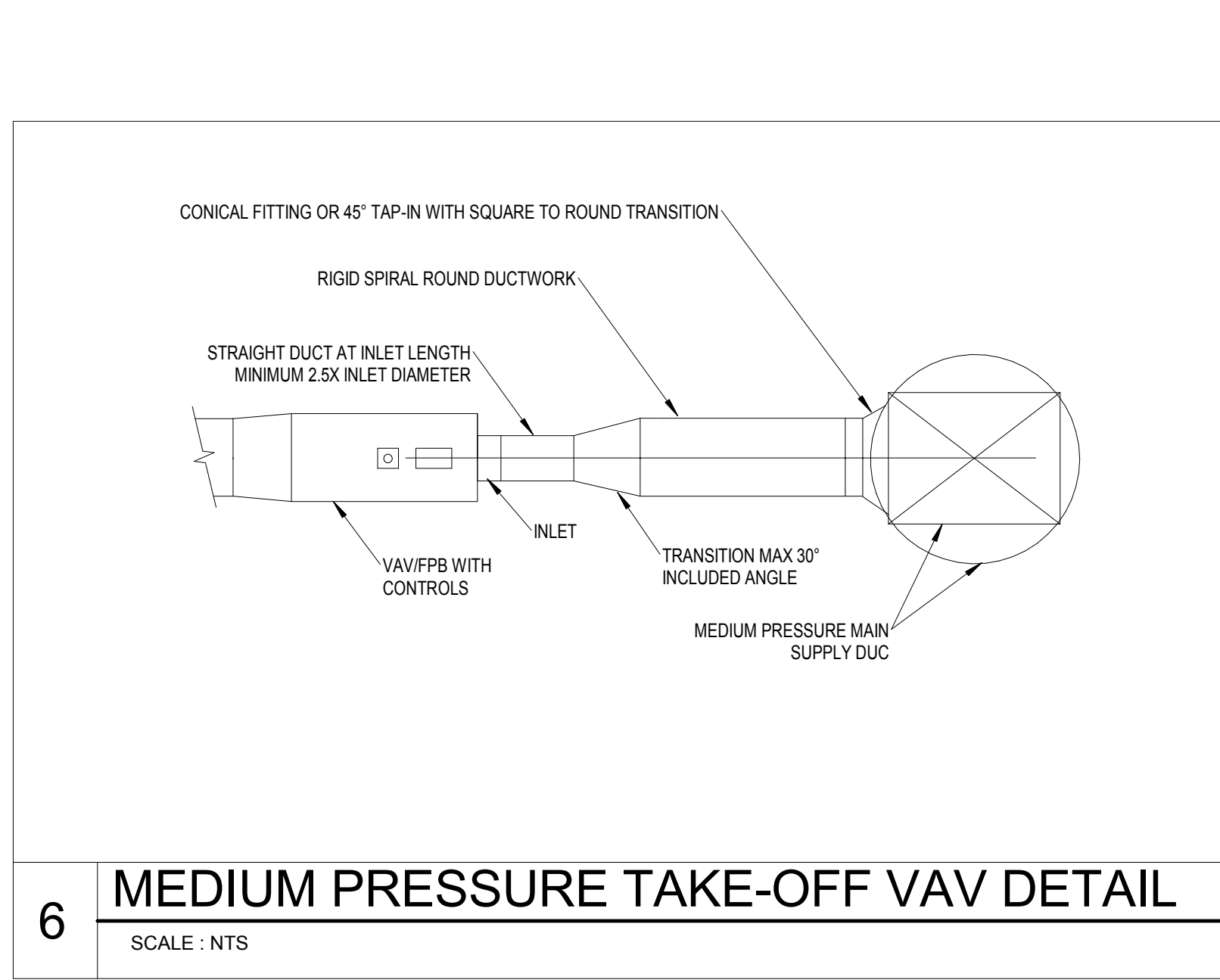
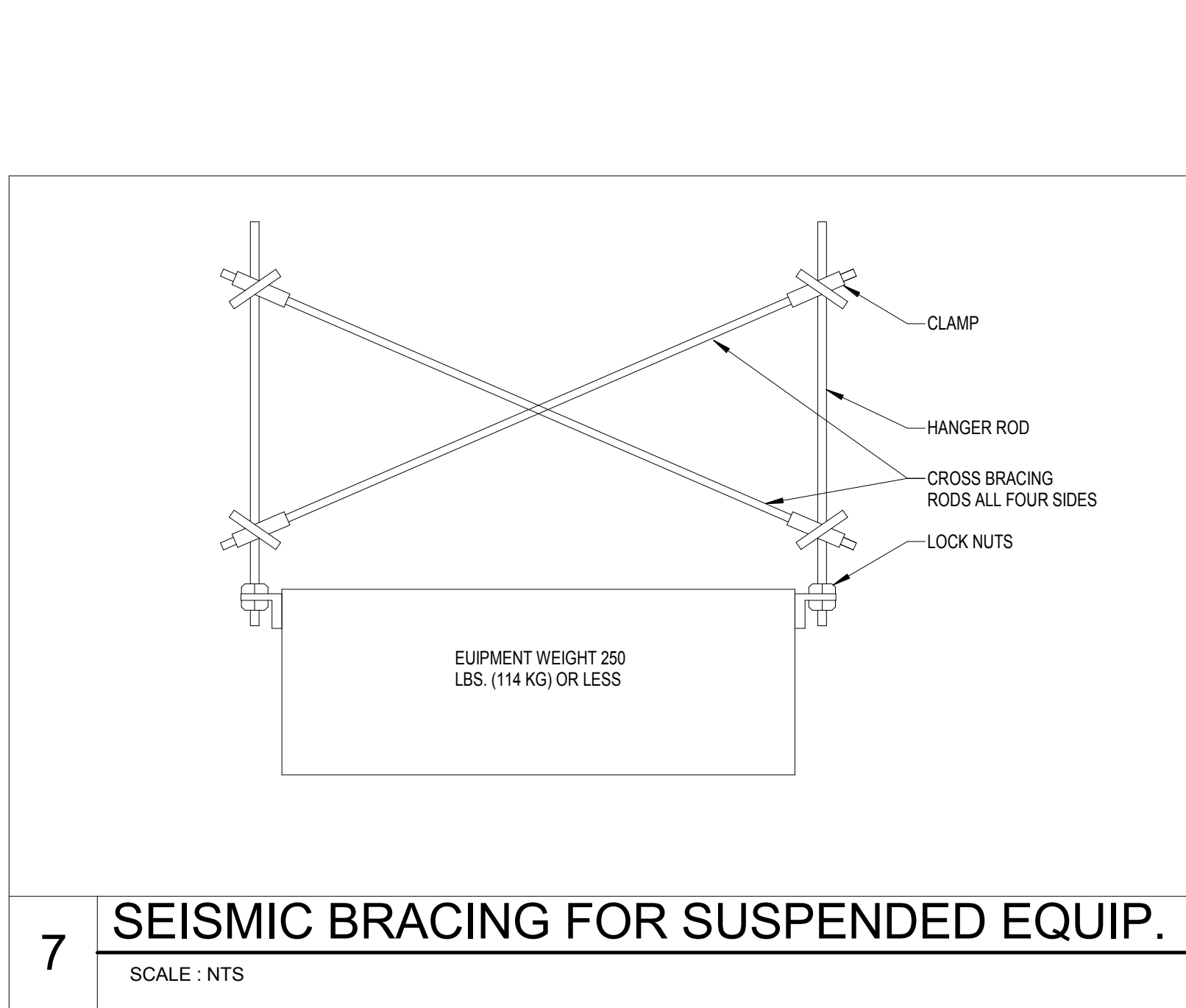
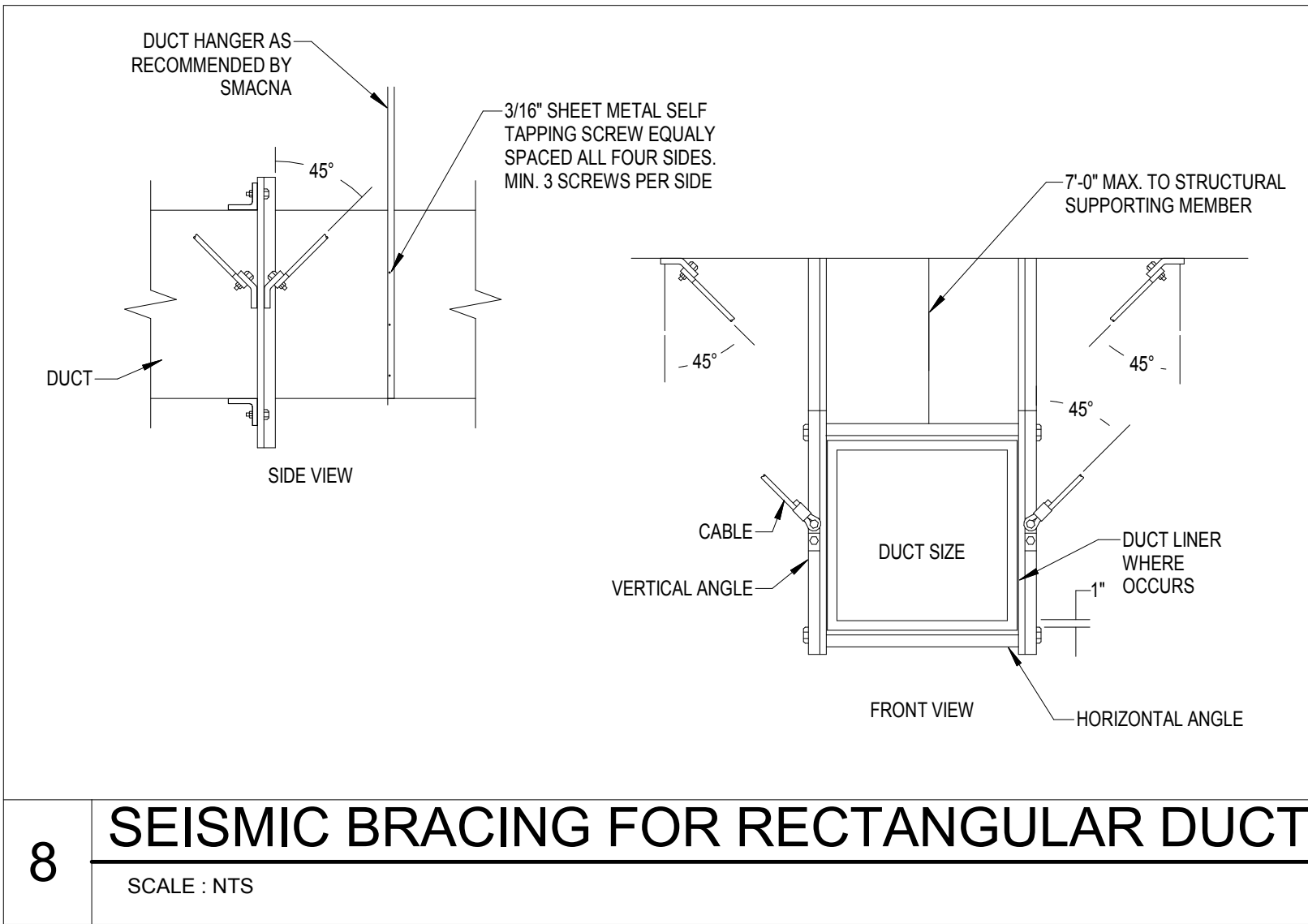
VAV SCHEDULE									
ID	MANUF.	TYPE	HW SIZE	SA	MAX AIR FLOW	Nominal Inlet Size	Heating Entering Air Temperature	Heating Entering Water Temperature	
VAV1-1	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	925 CFM	920 CFM	8"	55 °F	180 °F	
VAV1-2	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	925 CFM	920 CFM	8"	55 °F	180 °F	
VAV1-3	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	925 CFM	920 CFM	8"	55 °F	180 °F	
VAV1-4	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	925 CFM	1430 CFM	10"	55 °F	180 °F	
VAV1-5	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	925 CFM	920 CFM	8"	55 °F	180 °F	
VAV1-6	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	925 CFM	1430 CFM	10"	55 °F	180 °F	
VAV1-7	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	935 CFM	1430 CFM	10"	55 °F	180 °F	
VAV1-8	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	435 CFM	515 CFM	6"	55 °F	180 °F	
VAV1-9	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	965 CFM	1430 CFM	10"	55 °F	180 °F	
VAV2-1	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	1045 CFM	920 CFM	8"	55 °F	180 °F	
VAV2-2	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	275 CFM	515 CFM	6"	55 °F	180 °F	
VAV2-3	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	295 CFM	515 CFM	6"	55 °F	180 °F	
VAV2-4	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	885 CFM	920 CFM	8"	55 °F	180 °F	
VAV2-5	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	885 CFM	920 CFM	8"	55 °F	180 °F	
VAV2-6	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	615 CFM	920 CFM	8"	55 °F	180 °F	
VAV2-7	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	355 CFM	515 CFM	6"	55 °F	180 °F	
VAV2-8	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	780 CFM	1430 CFM	10"	55 °F	180 °F	
VAV2-9	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	940 CFM	1160 CFM	9"	55 °F	180 °F	
VAV2-10	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	460 CFM	515 CFM	6"	55 °F	180 °F	
VAV2-11	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	740 CFM	920 CFM	8"	55 °F	180 °F	
VAV3-1	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	660 CFM	1430 CFM	10"	55 °F	180 °F	
VAV3-2	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	680 CFM	920 CFM	8"	55 °F	180 °F	
VAV3-3	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	490 CFM	515 CFM	6"	55 °F	180 °F	
VAV3-4	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	540 CFM	920 CFM	8"	55 °F	180 °F	
VAV3-5	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	350 CFM	515 CFM	6"	55 °F	180 °F	
VAV3-6	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 08_HWC-1 Row	1/2"	910 CFM	920 CFM	8"	55 °F	180 °F	
VAV3-7	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	780 CFM	920 CFM	8"	55 °F	180 °F	
VAV3-8	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 06_HWC-1 Row	1/2"	345 CFM	515 CFM	6"	55 °F	180 °F	
VAV3-8	Krueger	Krueger_Single Duct Terminal Unit_LMHS-HWC: 010_HWC-1 Row	1"	1275 CFM	1430 CFM	10"	55 °F	180 °F	

CRAC SCHEDULE				
ID	MANUF.	TYPE	Voltage	
CRAC-1	Mitsubishi Electric	Air_Conditioner-Mitsubishi_Electric-Wall_Mounted-PKFY_Series: 6000 Btuh	208 V	
CRAC-2	Mitsubishi Electric	Air_Conditioner-Mitsubishi_Electric-Wall_Mounted-PKFY_Series: 6000 Btuh	208 V	
CRAC-3	Mitsubishi Electric	Air_Conditioner-Mitsubishi_Electric-Wall_Mounted-PKFY_Series: 6000 Btuh	208 V	

AIR TERMINAL SCHEDULE					
ID	MANUF.	Family and Type	Min Flow	Max Flow	
CD-1	TITUS	Supply Diffuser - Rectangular Face Round Neck - Hosted: 24"x24" Face 6" Neck - Hosted	0 CFM	120 CFM	
CD-2	TITUS	Supply Diffuser - Rectangular Face Round Neck - Hosted: 24"x24" Face 8" Neck - Hosted	121 CFM	200 CFM	
CD-3	TITUS	Supply Diffuser - Rectangular Face Round Neck - Hosted: 24"x24" Face 10" Neck - Hosted	201 CFM	400 CFM	
EG-1	TITUS	Exhaust Grill: 24 x 24 Face 6x6 Connection			
EG-1	TITUS	Exhaust Grill: 24 x 24 Face 8x8 Connection			
LD-1	Krueger	Krueger-Linear_Slot_Supply_Diffuser-DesignFlo_With_DFP: DFL 10_1 Slot_08_48in Plenum	0 CFM	0 CFM	
R-1	TITUS	Cn3D_12x24 Perforated Return: 12X12 RA Boot	0 CFM	600 CFM	
R-2	TITUS	Cn3D_24x24 RA Boot: 24x24 RA Boot	0 CFM	1200 CFM	

AHU SCHEDULE		
ID	MANUF.	TYPE
AHU-1	LONESTAR	Outdoor AHU - Horizontal: 21 Square Feet of Coil

LOUVER SCHEDULE				
ID	MANUF.	Family and Type	Min Flow	Max Flow
L-1	GREENECK	Louver - Storm Resistant: Standard		
L-2	GREENECK	Louver - Storm Resistant: Standard		



PIPE SIZE	*ANGLE BRACE	BOLT TO ANGLE	ANGLE CLIP	ANCHOR BOLT OR INSERT
2 1/2"	2" X 2" 16 GA	3/8"	3" X 3" X 1/4	3/8"
3, 4	2 1/2" X 2 1/2" 16 GA	3/8"	3" X 3" X 1/4	1/2"
5, 6	2 1/2" X 2 1/2" 16 GA	1/2"	3" X 3" X 1/2	3/4"

* 1 5/8 X 1 5/8 X 1/2 GAGE CHANNEL MAY BE USED

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Project Name: **Vortex Business Center**

Revision Schedule

No.	Description	Date

Sheet Name: **MECHANICAL HVAC DETAILS AND SCHEDULES**

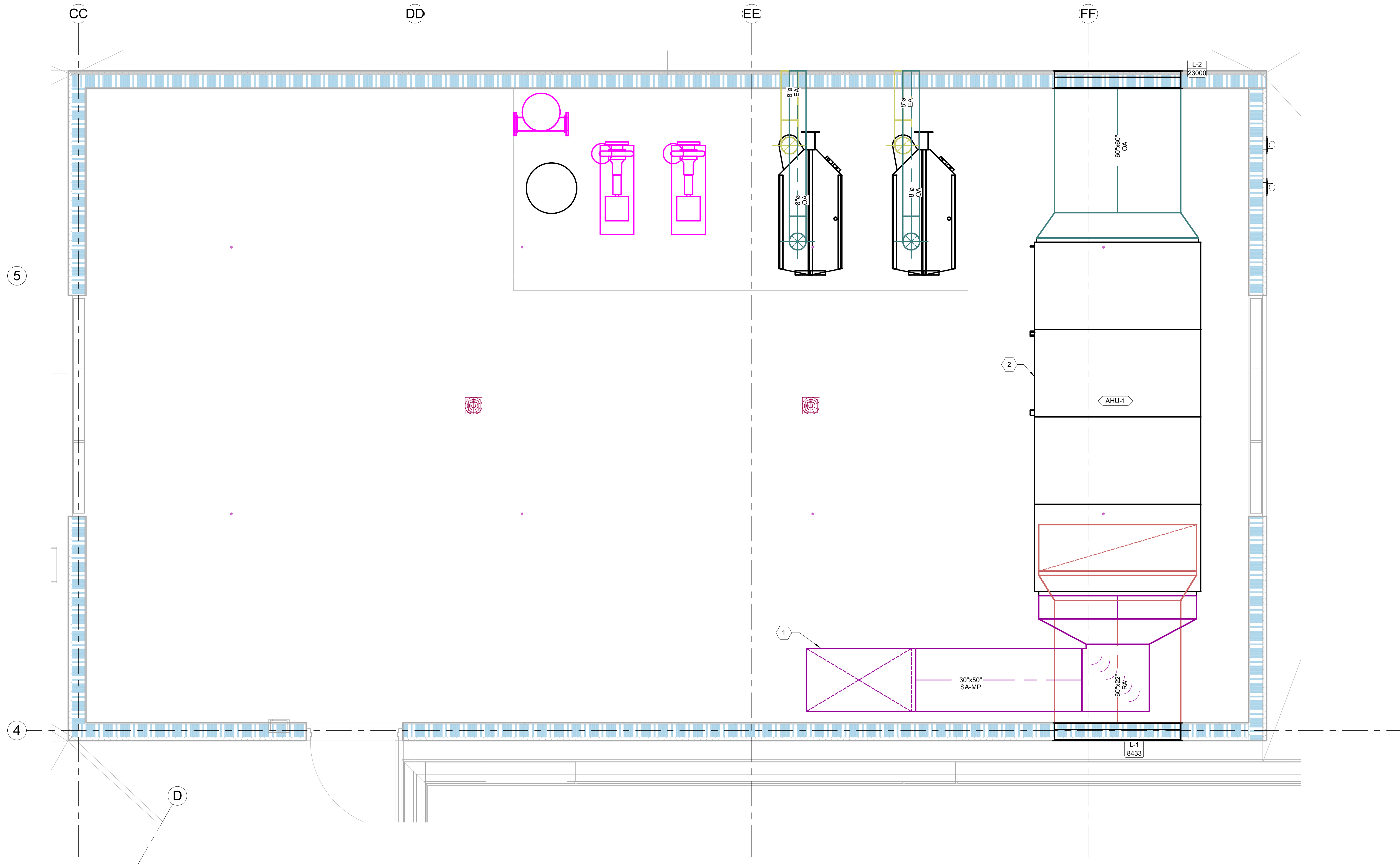
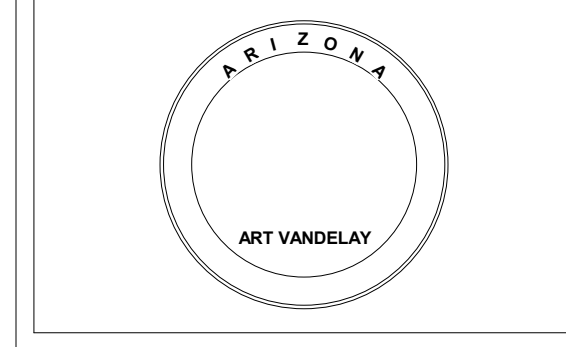
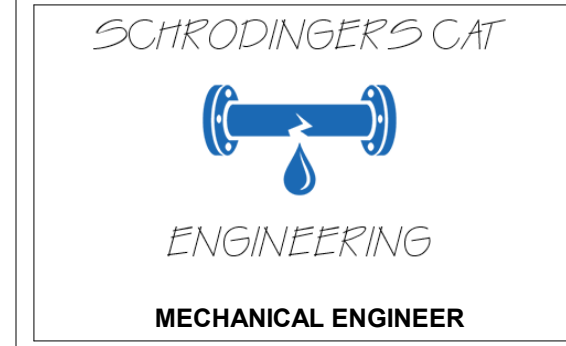
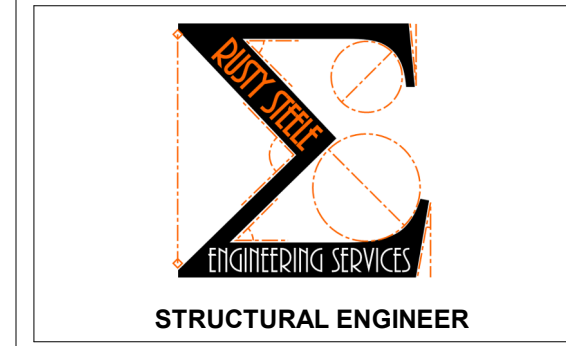
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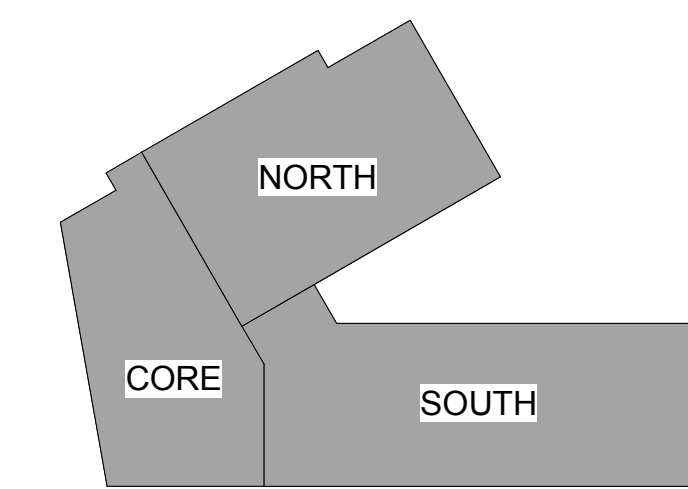
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SHEET KEYNOTES	
1	50X30 MEDIUM PRESSURE SUPPLY AIR DUCT DOWN. SEE SHEET MH103 FOR CONTINUATION.
2	16" HOUSEKEEPING PAD. PROVIDED BY CONTRACTOR.

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1 PENTHOUSE MECHANICAL PLAN
 1/2" = 1'-0"



KEY PLAN

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Revision Schedule		
No.	Description	Date

Sheet Name:
ENLARGED MECHANICAL ROOM PLAN

ME401

SHEET KEYNOTES	
1	36X18 MEDIUM PRESSURE SUPPLY AIR UP. SEE SHEET MH102 FOR CONTINUATION
2	9X12 EXHAUST AIR UP. SEE SHEET MH102 FOR CONTINUATION
3	CONTRACTOR TO ROUTE CONDENSATE DRAIN TO TAIL PIECE OF SINK IN BREAKROOM 131
GENERAL NOTES	
1	RUNOUTS TO DIFFUSERS TO MATCH DIFFUSER NECK SIZE. SIZE LISTED ON SCHEDULES
2	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
3	DUCT SIZE SHOWN ON PLANS IS LISTED AS FREE AREA.

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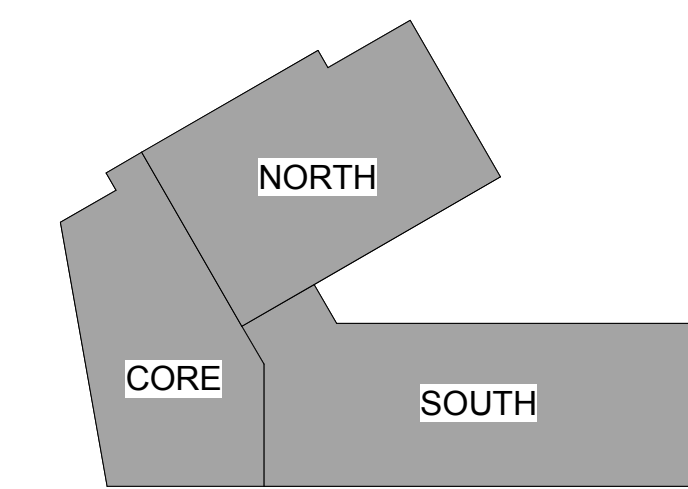
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1 OVERALL MECHANICAL PLAN LEVEL 01
3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
OVERALL MECHANICAL PLAN LEVEL 01

MH101

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SHEET KEYNOTES	
1	45X25 MEDIUM SUPPLY AIR UP SEE SHEET MH103 FOR CONTINUATION.
2	36X18 MEDIUM SUPPLY AIR DOWN SEE SHEET MH101 FOR CONTINUATION.
3	14X14 EXHAUST AIR UP SEE SHEET MH103 FOR CONTINUATION.
4	12X9 EXHAUST AIR DOWN SEE SHEET MH101 FOR CONTINUATION.
5	CONTRACTOR TO ROUTE CONDENSATE DRAIN TO TAIL PIECE OF SINK IN BREAK ROOM 229.

GENERAL NOTES	
1	RUNOUTS TO DIFFUSERS TO MATCH DIFFUSER NECK SIZE. SIZE LISTED ON SCHEDULES.
2	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
3	DUCT SIZE SHOWN ON PLANS IS LISTED AS FREE AREA.

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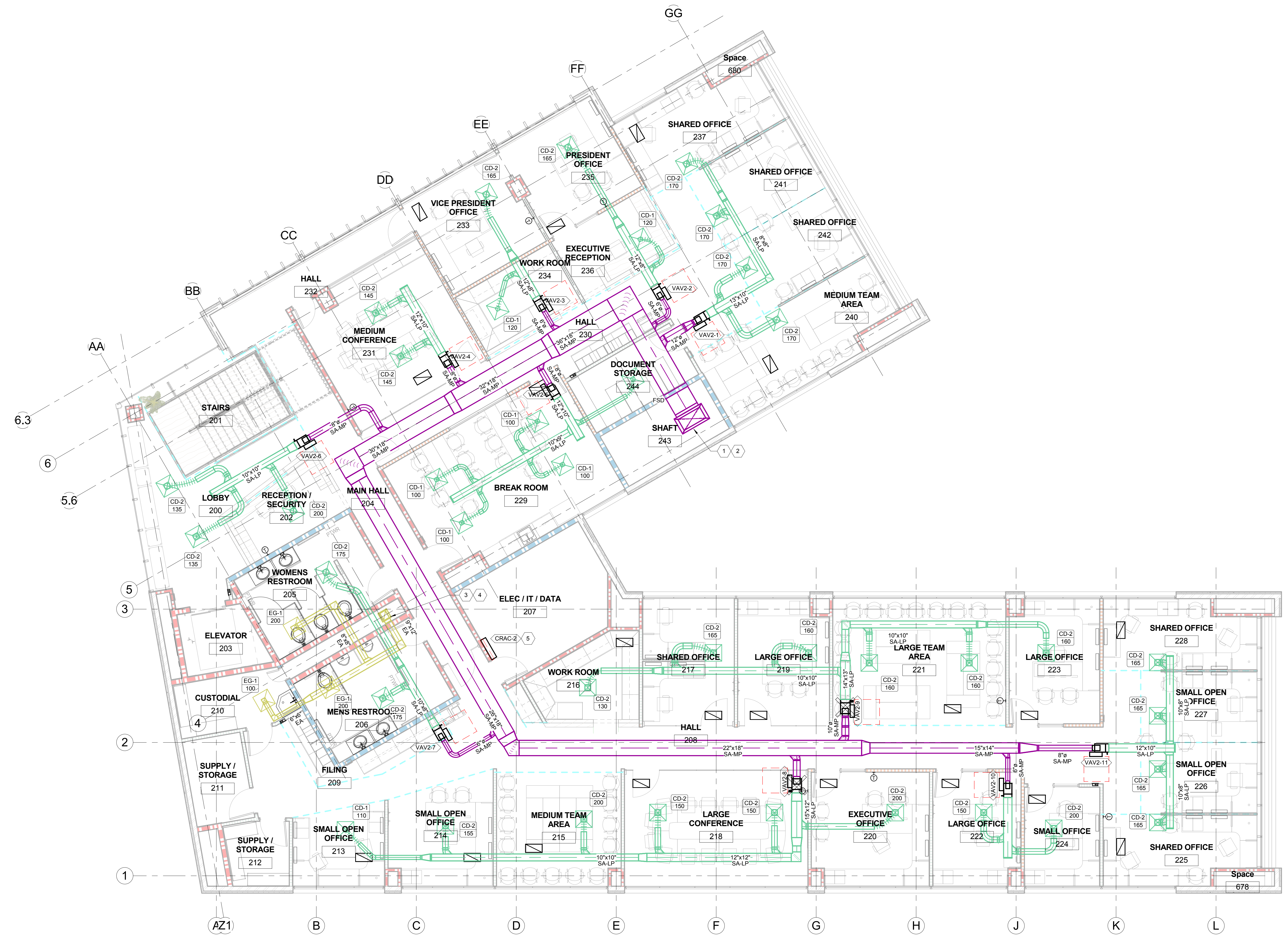
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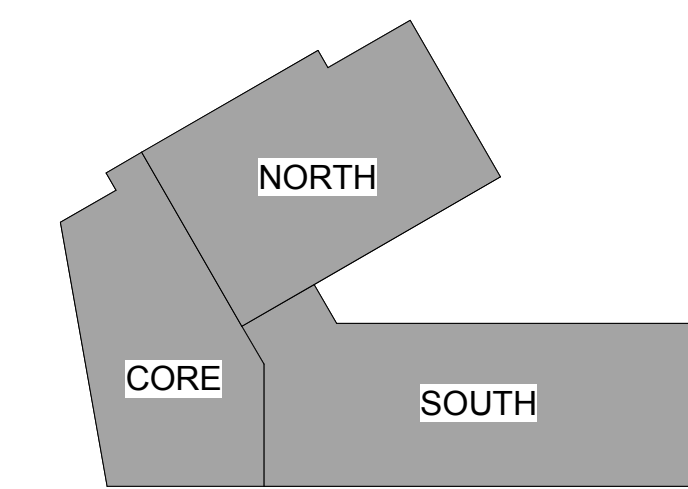
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1 OVERALL MECHANICAL PLAN LEVEL 02
 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
OVERALL MECHANICAL PLAN LEVEL 02

MH102

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SHEET KEYNOTES	
1	50X30 MEDIUM PRESSURE SUPPLY AIR DUCT UP TO AHU-1. SEE SHEET ME401 FOR CONTINUATION.
2	45X25 MEDIUM PRESSURE SUPPLY AIR DUCT DOWN SEE SHEET MH102 CONTINUATION.
3	14X14 EXHAUST AIR DOWN. SEE SHEET MH102 FOR CONTINUATION.
4	18X14 EXHAUST AIR UP TO EF-1.
5	CONTRACTOR TO ROUTE CONDENSATE DRAIN LINE TO SINK IN BREAK ROOM 326

GENERAL NOTES	
1	RUNOUTS TO DIFFUSERS TO MATCH DIFFUSER NECK SIZE. SIZE LISTED ON SCHEDULES.
2	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
3	DUCT SIZE SHOWN ON PLANS IS LISTED AS FREE AREA.

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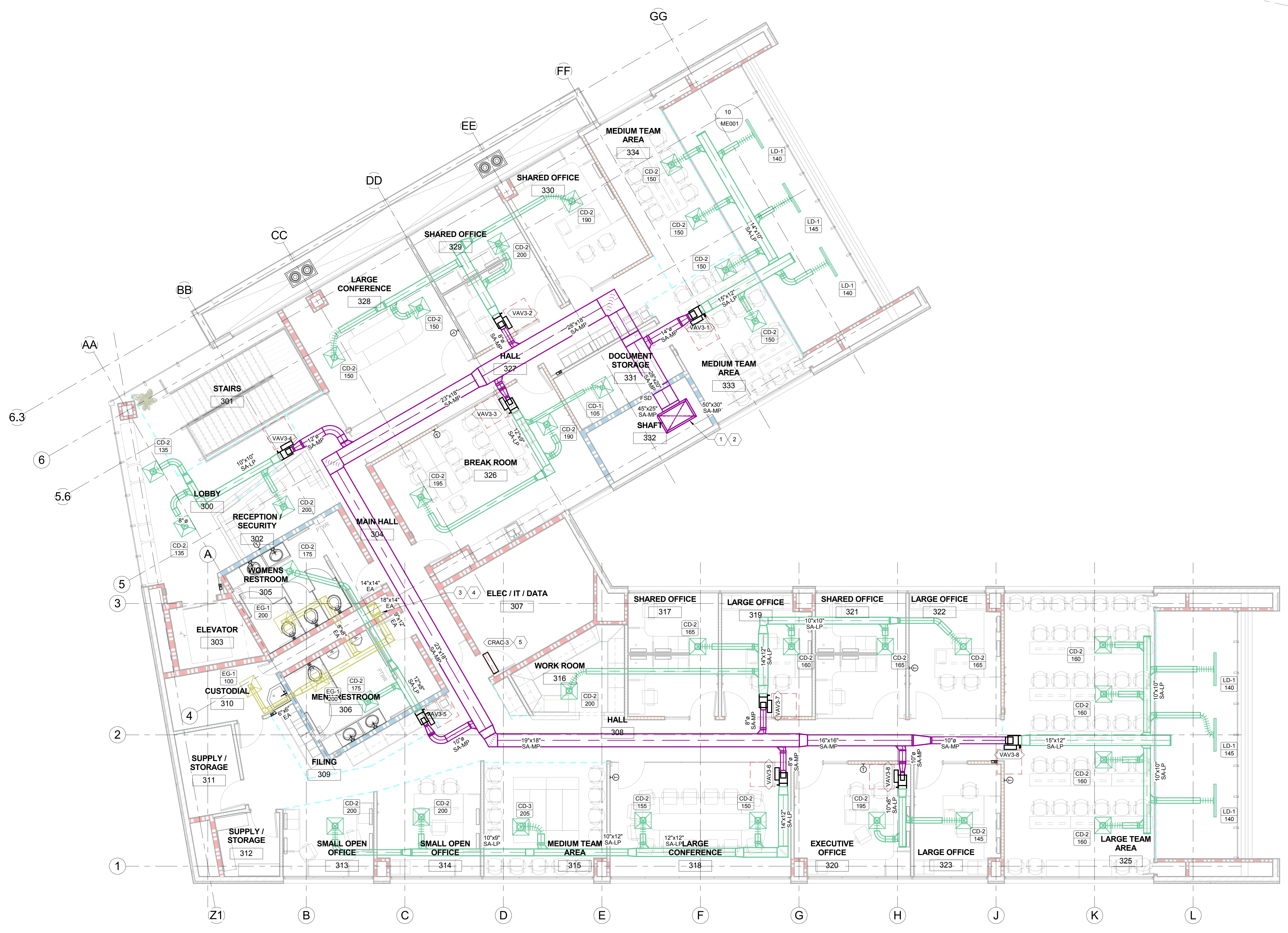
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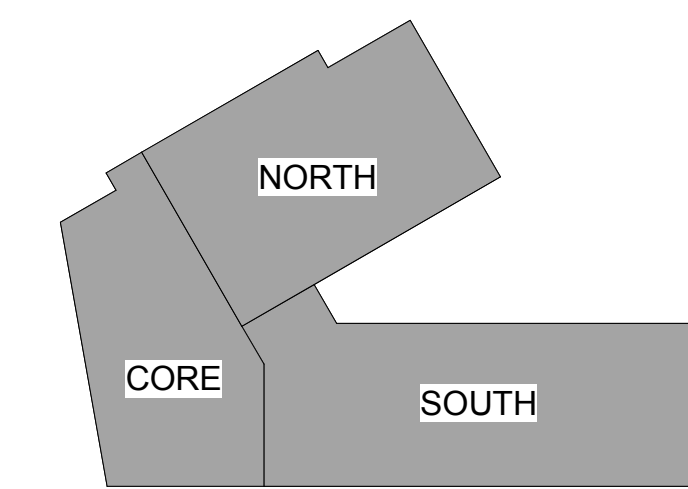
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1 OVERALL MECHANICAL PLAN LEVEL 03
 3/16" = 1'-0"



KEY PLAN

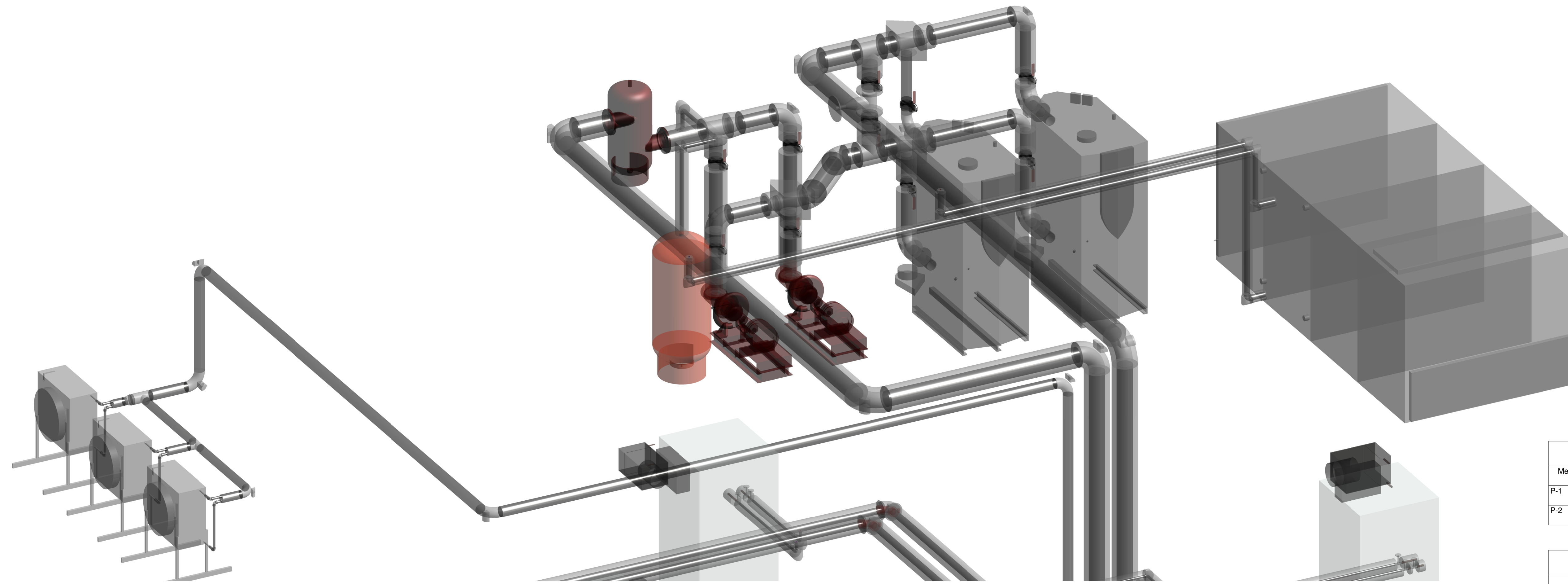
Project Name:
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Revision Schedule		
No.	Description	Date

Sheet Name:
OVERALL MECHANICAL PLAN LEVEL 03

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SHEET LIST MECHANICAL PIPE					
Sheet Discipline	Sheet Classification	Sheet Name	Sheet Number	Drawn By	Sheet Issue Date
MECHANICAL PIPE	SCHEDULES	MECHANICAL PIPE SCHEDULE	MP000	SS	09/27/16
MECHANICAL PIPE	PLANS	MECHANICAL PIPE PLAN LEVEL 1	MP101	SS	09/27/16
MECHANICAL PIPE	PLANS	MECHANICAL PIPE PLAN LEVEL 2	MP102	SS	09/27/16
MECHANICAL PIPE	PLANS	MECHANICAL PIPE PLAN LEVEL 3	MP103	SS	09/27/16
MECHANICAL PIPE	PLANS	MECHANICAL PIPE PLAN PENTHOUSE	MP104	SS	09/27/16

Pump Schedule								
Mech Equip Tag	Pump Type	Manufacturer	Model	Series	Motor Frame	Suction Size	Discharge Size	Maximum Working Pressure
P-1	Base Mounted End Suction	Bell & Gossett	4 EB	e-1510	213T-S	5"	4"	175.00 psi
P-2	Base Mounted End Suction	Bell & Gossett	4 EB	e-1510	213T-S	5"	4"	175.00 psi

Boiler Schedule						
Mech Equip Tag	Manufacturer	Description	MODEL NO.	GALLON CAPACITY	INPUT RATE (BTUH)	FUEL TYPE
B-1	Lochinvar	CREST Condensing Boiler	FBN2001	111	2,000,000	NATURAL GAS
B-2	Lochinvar	CREST Condensing Boiler	FBN2001	111	2,000,000	NATURAL GAS

Air Separator Schedule					
Mech Equip Tag	Manufacturer	Series	Model	Conn. Size	Max Operating Temp
AS-1	Bell & Gossett	Rotairtrol	RL-6F	6"	350 °F

Expansion Tank Schedule						
Mech Equip Tag	Tank Type	Manufacturer	Model	Max Working Pressure	Max Operating Temp	Volume
ET-1	Bladder	Taco	CBX350-12 S	125.00 psi	240 °F	43.0 gal

Condensing Unit Schedule		
Mech Equip Tag	Description	Type
CU-1	Air Cooled Condensing Unit	17 MBH
CU-2	Air Cooled Condensing Unit	17 MBH
CU-3	Air Cooled Condensing Unit	17 MBH

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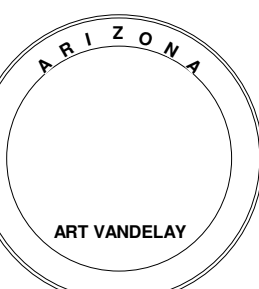


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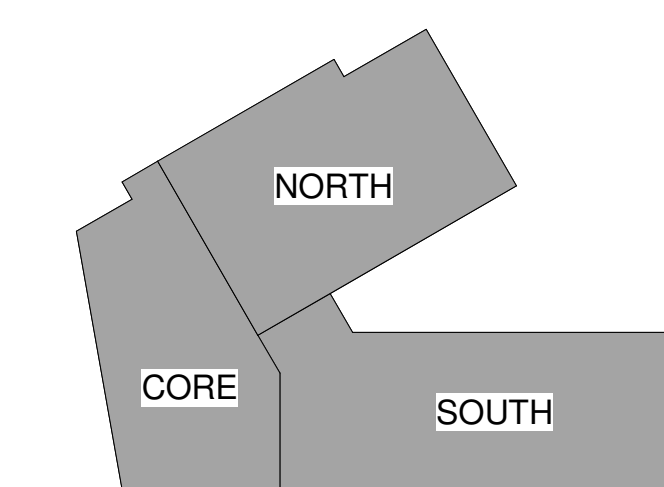
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Revision Schedule		
No.	Description	Date

Sheet Name:
MECHANICAL PIPE SCHEDULE

MP000



KEY PLAN

SHEET KEYNOTES	
1	1" BYPASS LINE WITH BALANCING VALVE
2	REFER TO CRAC UNIT O&M FOR REFRIGERANT CONNECTION
3	ISOLATION VALVES TO BE INSTALLED BETWEEN RISER AND FIRST BRANCH

GENERAL NOTES	
1	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
2	SEE DETAIL 5 ON SHEET MH501 FOR COIL PIPING DETAIL

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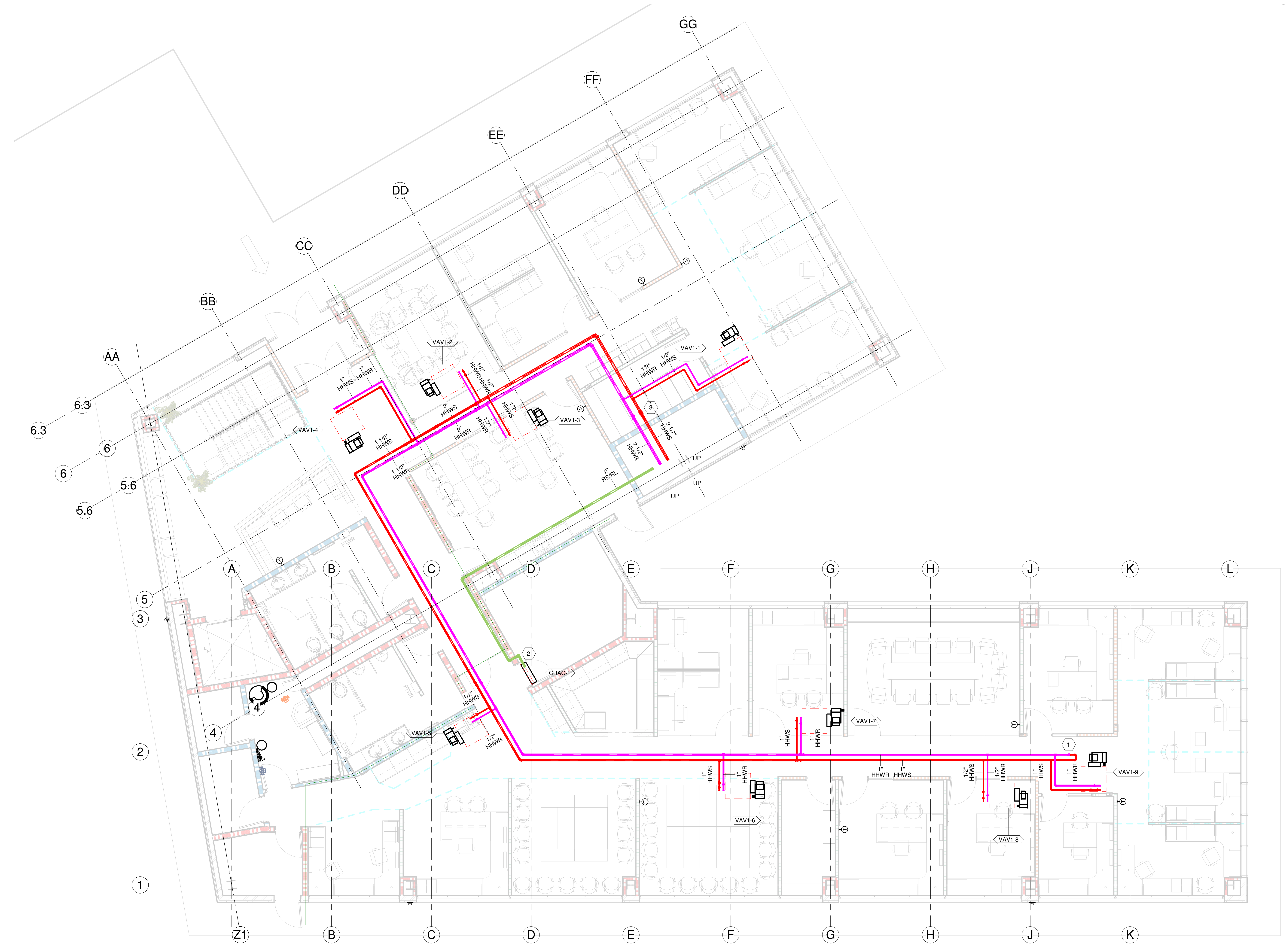
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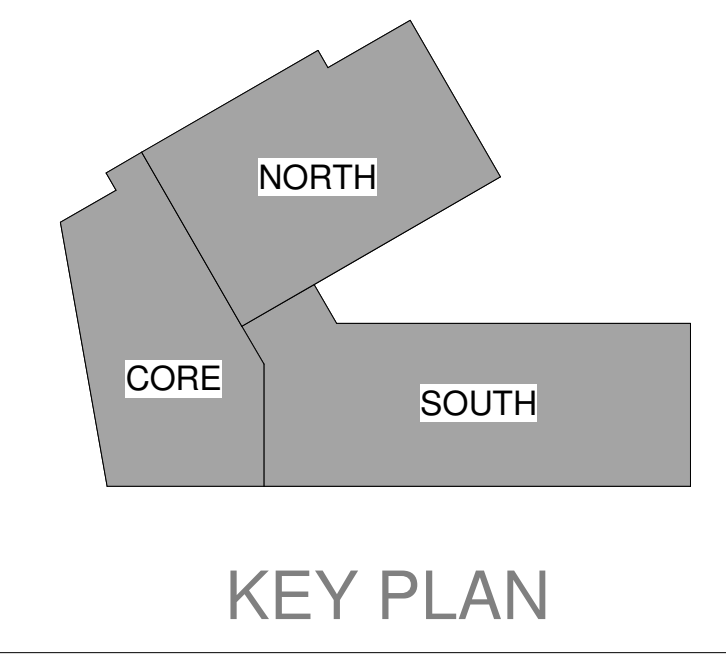
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① MECHANICAL PIPE PLAN LEVEL 1
 3/16" = 1'-0"



Project Name:
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Revision Schedule		
No.	Description	Date

Sheet Name:
MECHANICAL PIPE PLAN LEVEL 1

MP101

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SHEET KEYNOTES	
1	1" BYPASS LINE WITH BALANCING VALVE
2	REFER TO CRAC UNIT O&M FOR REFRIGERANT CONNECTION
3	ISOLATION VALVES TO BE INSTALLED BETWEEN RISER AND FIRST BRANCH

GENERAL NOTES	
1	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
2	SEE DETAIL 5 ON SHEET MH501 FOR COIL PIPING DETAIL

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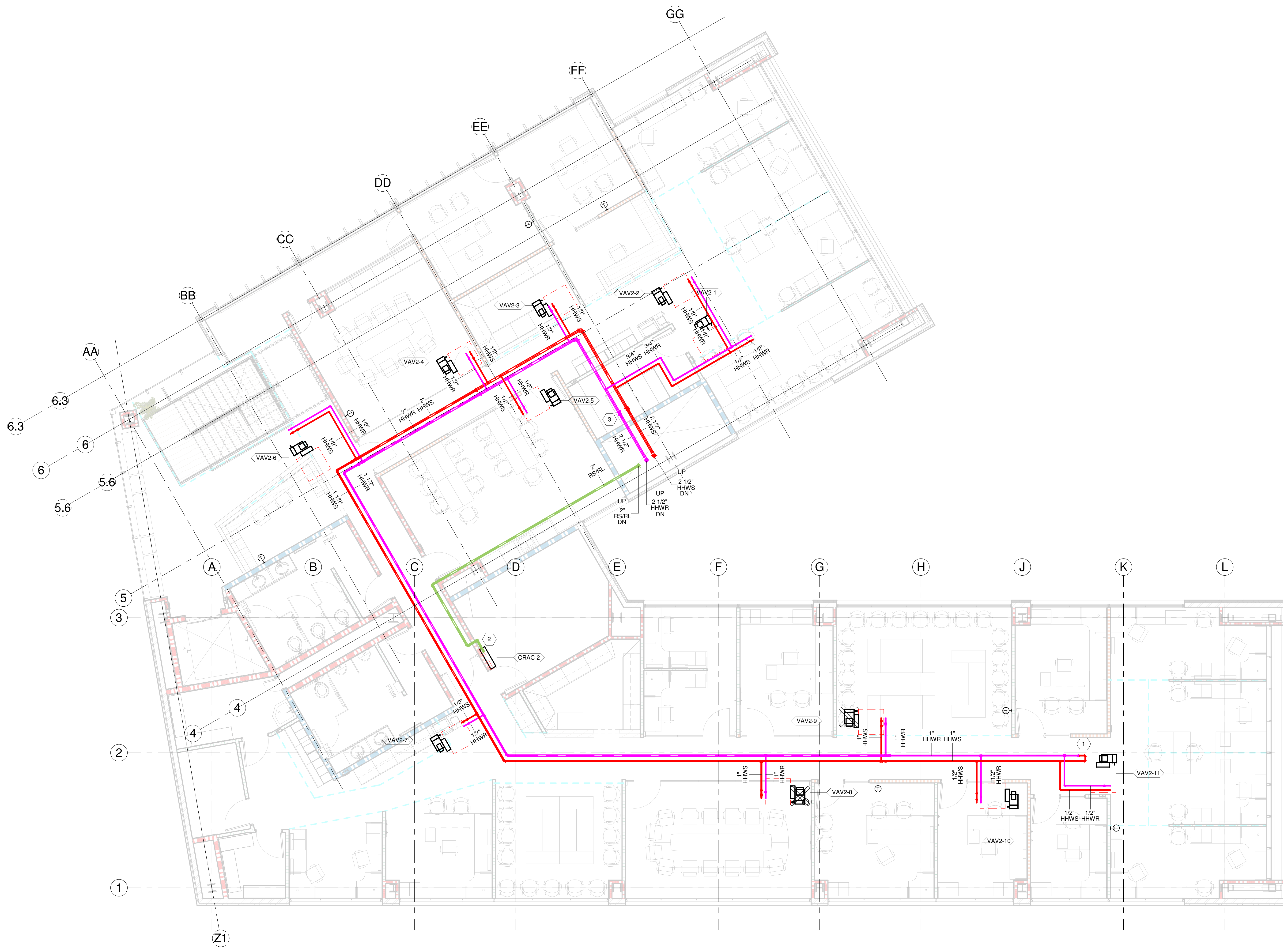
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 STRUCTURAL ENGINEER

SCHRODINGER'S CAT
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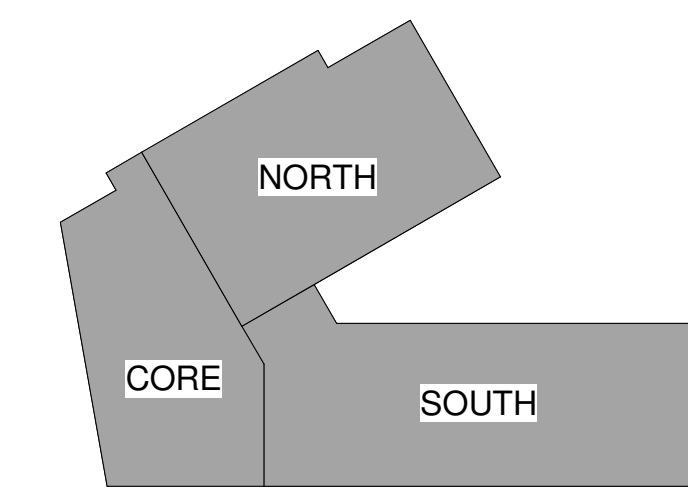
ELECTRICAL SOLUTION ENGINEERING LLC
 ELECTRICAL ENGINEER

Cn3D CONSTRUCTION
 CONTRACTOR

ART VANDELAY



1 MECHANICAL PIPE PLAN LEVEL 2
 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
MECHANICAL PIPE PLAN LEVEL 2

MP102

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SHEET KEYNOTES	
1	1" BYPASS LINE WITH BALANCING VALVE
2	REFER TO CRAC UNIT O&M FOR REFRIGERANT CONNECTION
3	ISOLATION VALVES TO BE INSTALLED BETWEEN RISER AND FIRST BRANCH

GENERAL NOTES	
1	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
2	SEE DETAIL 5 ON SHEET MH501 FOR COIL PIPING DETAIL

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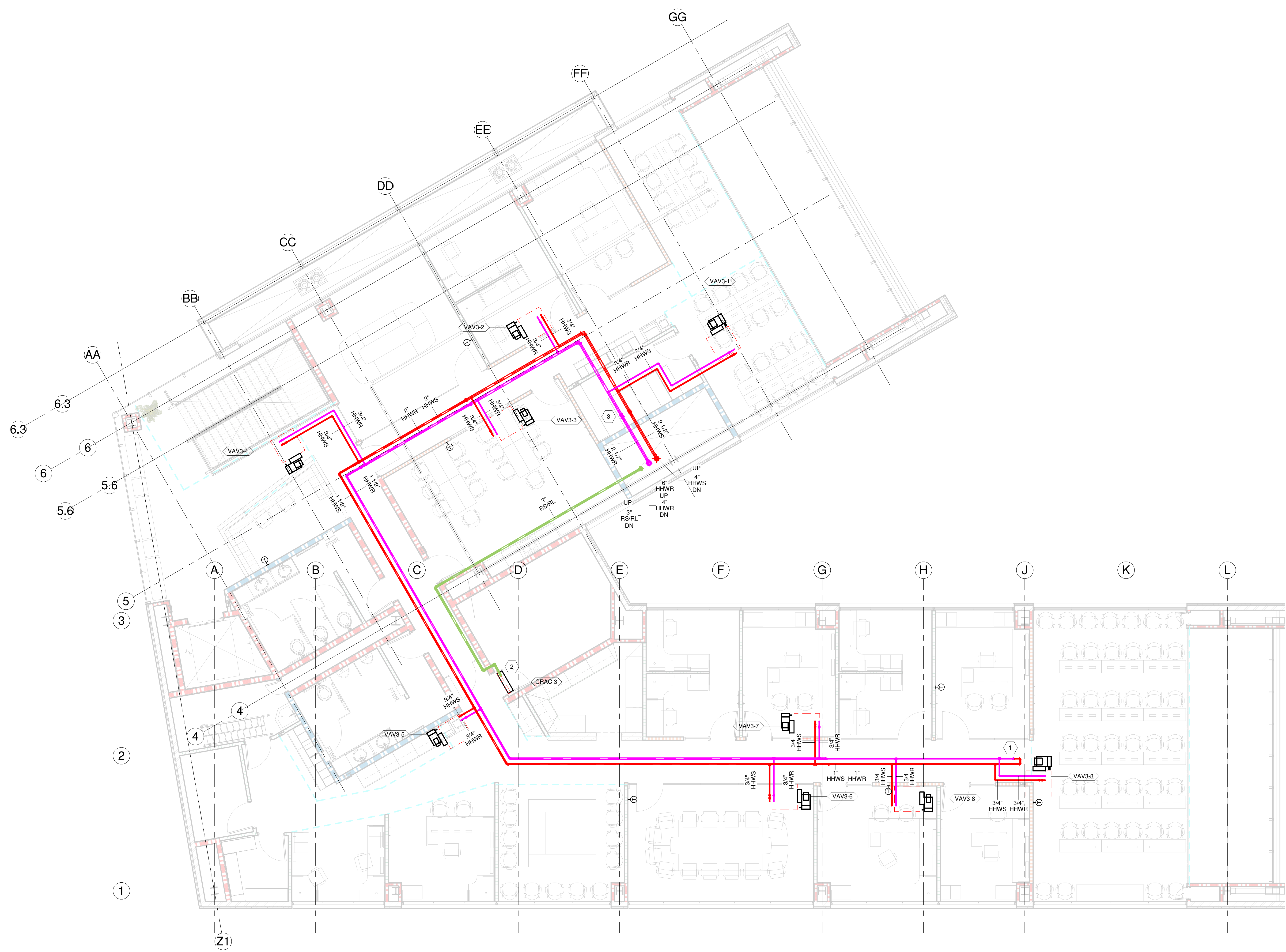
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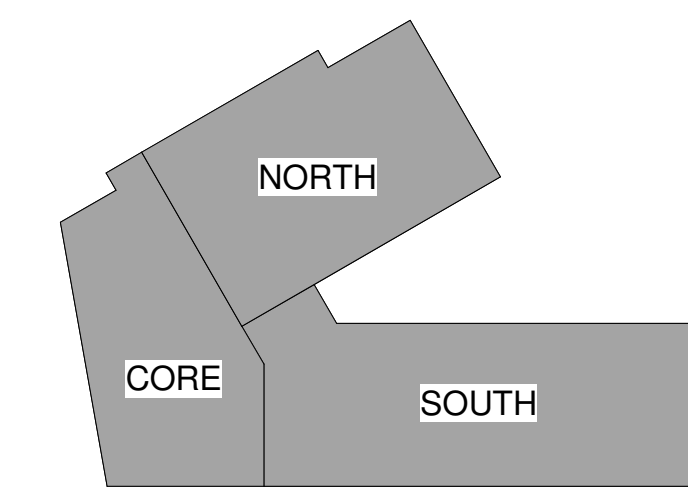
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 CONTRACTOR

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① MECHANICAL PIPE PLAN LEVEL 3
 3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
MECHANICAL PIPE PLAN LEVEL 3

MP103

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SHEET KEYNOTES

GENERAL NOTES

- 1 CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
- 2 SEE DETAIL 5 ON SHEET MH501 FOR COIL PIPING DETAIL.

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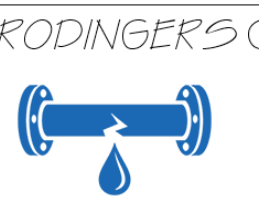
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MECHANICAL ENGINEER



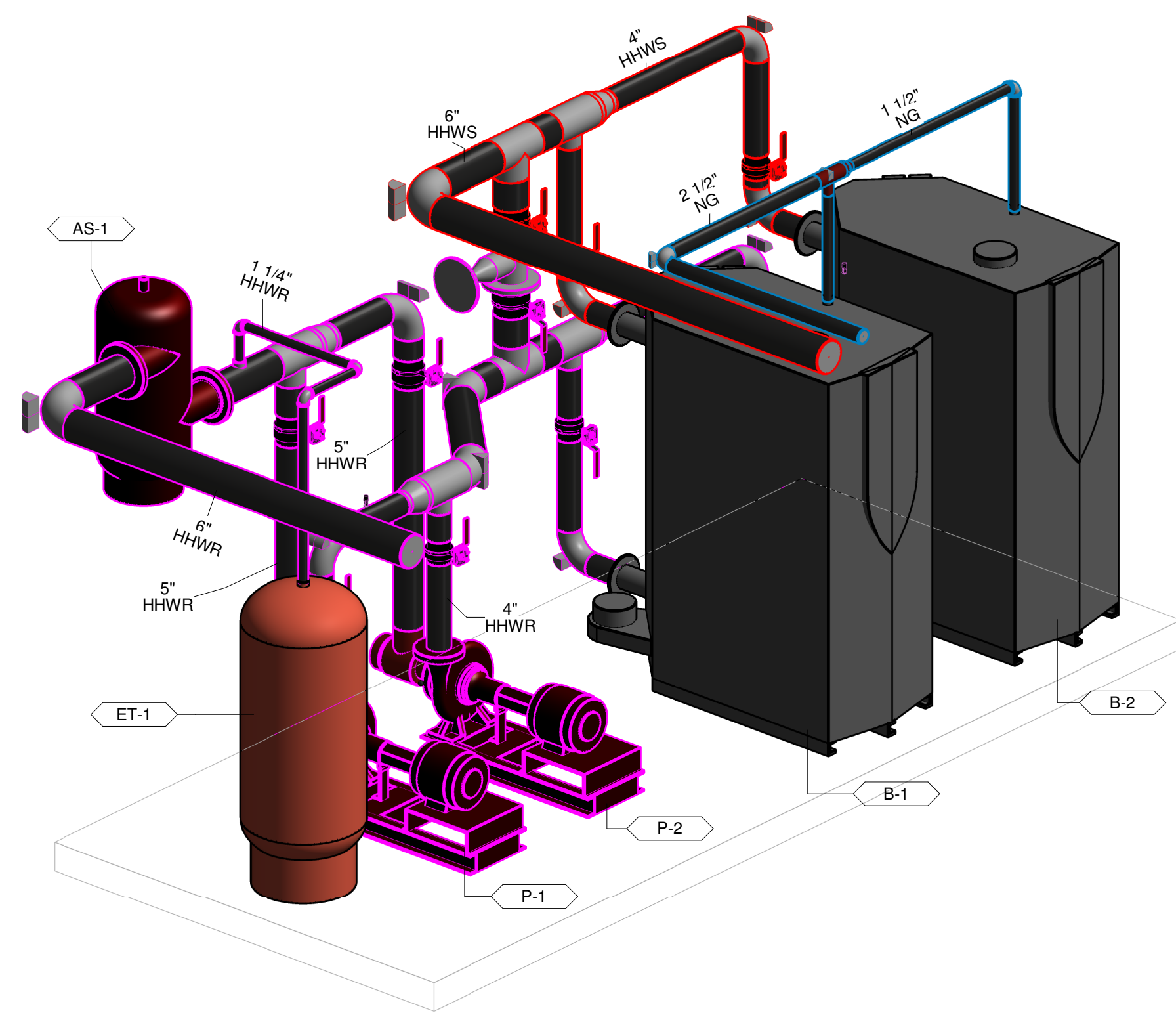
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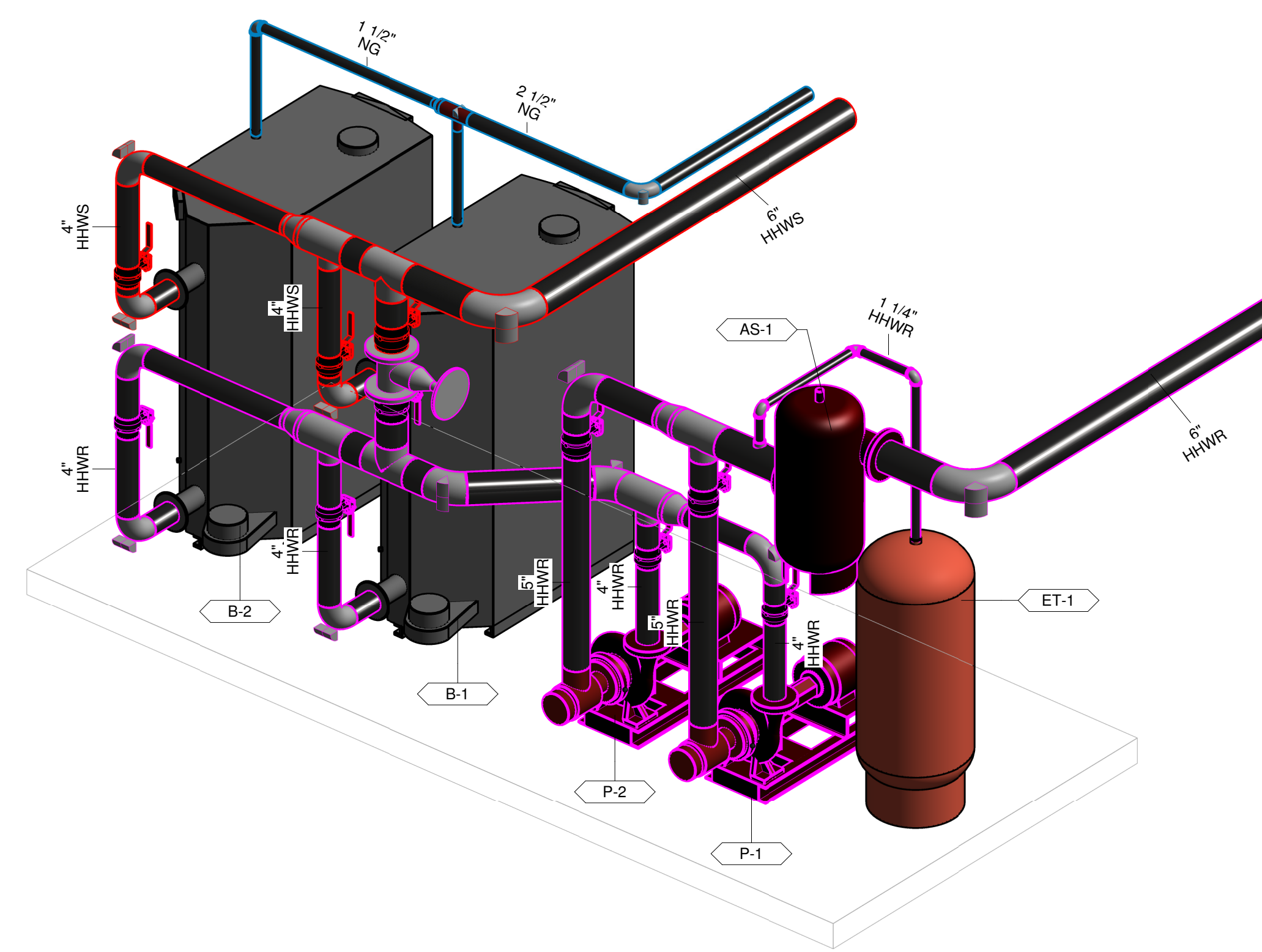
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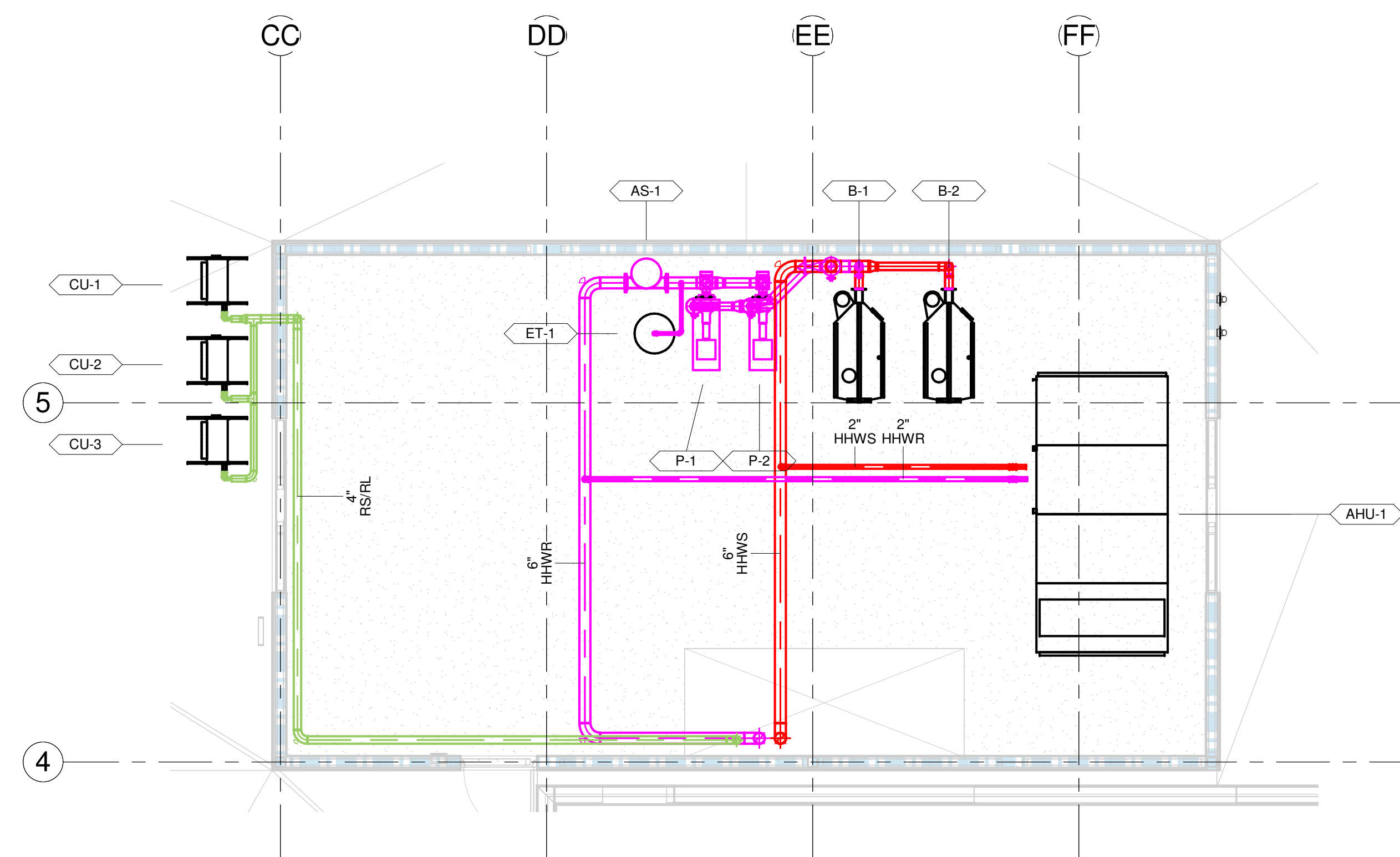
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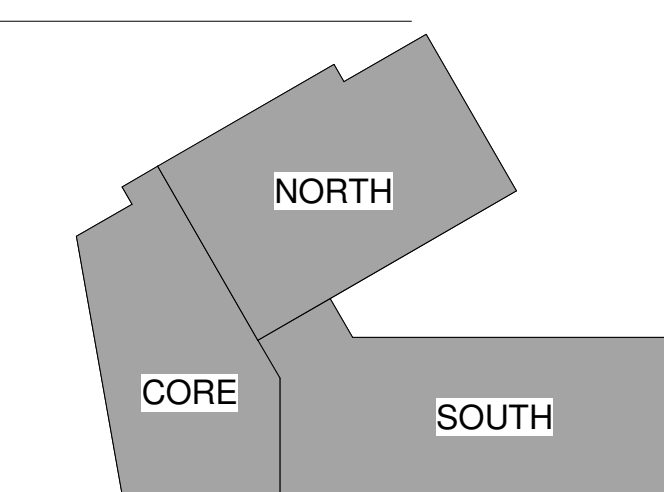
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2 BOILER PLANT NW ISOMETRIC



1 MECHANICAL PIPE PLAN PENTHOUSE
 3/16" = 1'-0"



KEY PLAN

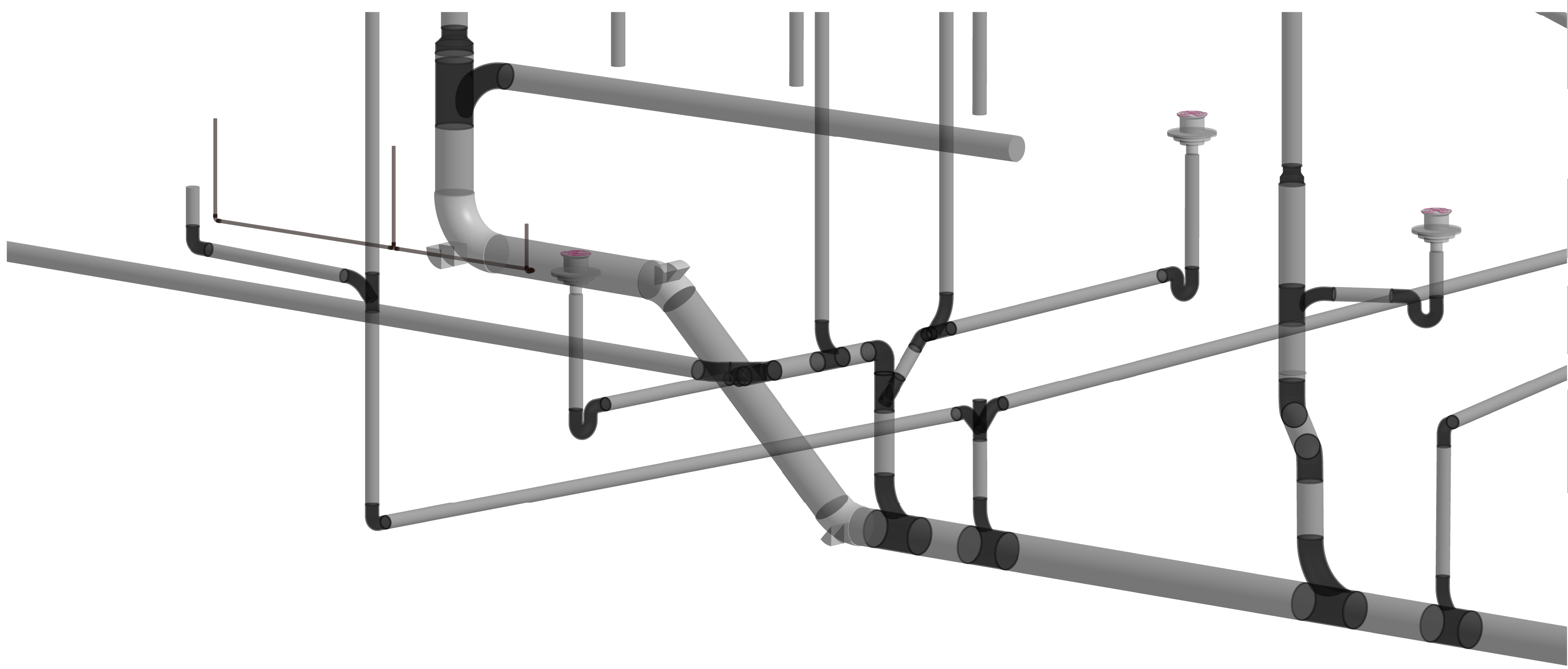
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
MECHANICAL PIPE PLAN PENTHOUSE

MP104

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SHEET LIST PLUMBING						
Sheet Discipline	Sheet Classification	Sheet Name	Sheet Number	Drawn By	Sheet Issue Date	
PLUMBING	PLANS	FIRE PROTECTION PLAN LEVEL 1	FP101	SS	09/27/16	
PLUMBING	PLANS	FIRE PROTECTION PLAN LEVEL 2	FP102	SS	09/27/16	
PLUMBING	PLANS	FIRE PROTECTION PLAN LEVEL 3	FP103	SS	09/27/16	
PLUMBING	PLANS	FIRE PROTECTION PLAN PENTHOUSE	FP104	SS	09/27/16	
PLUMBING	GENERAL	PLUMBING COVER SHEET AND SCHEDULES	PL000	SS	09/27/16	
PLUMBING	PLANS	PLUMBING PLAN UNDERGROUND	PL100	SS	09/27/16	
PLUMBING	PLANS	PLUMBING PLAN LEVEL 1 OVERALL	PL101	SS	09/27/16	
PLUMBING	PLANS	PLUMBING PLAN LEVEL 2 OVERALL	PL102	SS	09/27/16	
PLUMBING	PLANS	PLUMBING PLAN LEVEL 3 OVERALL	PL103	SS	09/27/16	
PLUMBING	PLANS	PLUMBING PLAN ROOF	PL104	SS	09/27/16	
PLUMBING	ENLARGED VIEWS	PLUMBING PLAN - ENLARGED VIEWS	PL401	SS	09/27/16	
PLUMBING	ISOMETRIC VIEWS	PLUMBING RISER DIAGRAM	PL901	SS	09/27/16	

RO Filter System Schedule						
Mech Equip Tag	Description	Manufacturer	Model	Series	Feedwater Rate	
ROF-1	Commercial Reverse Osmosis Systems	Watts	PWR2511	3021	2.4 gpm	

Water Heater Schedule						
Mech Equip Tag	Description	Manufacturer	Model	Series	Type Fuel	Input Heat
WH-1	Commercial Gas Water Heater	A. O. Smith	BTH-120	Cyclone Xi	Natural Gas	120000.0 Btu/h

RO Water Storage Tank Schedule						
Mech Equip Tag	Tank Type	Manufacturer	Model	Max Working Pressure	Max Operating Temp	Volume
ROT-1	Bladder	Taco	CBX30-125	125.00 psi	240 °F	5.0 gal

Domestic Water Expansion Tank Schedule						
Mech Equip Tag	Tank Type	Manufacturer	Model	Max Working Pressure	Max Operating Temp	Volume
ETHW-2	Bladder	Taco	CBX30-125	125.00 psi	240 °F	5.0 gal

Circulator Pump Schedule								
Mech Equip Tag	Description	System Name	Manufacturer	Model	Suction Size	Discharge Size	Motor Enclosure	Motor Frame
CP-1	In-Line Circulator Pump with Variable Frequency Drive	DHWRI	Grundfos	TPE32-40/4	1 1/4"	1 1/4"	TEFC	56C
CP-2	In-Line Circulator Pump with Variable Frequency Drive	RO	Grundfos	TPE32-40/4	1 1/4"	1 1/4"	TEFC	56C

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Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
PLUMBING COVER SHEET AND SCHEDULES

PL000

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SHEET KEYNOTES	
1	PRIMARY ROOF DRAIN TO DROP BELOW GRADE, OVERFLOW TO DSN
2	GAS METER TO BE INSTALLED BY LOCAL UTILITY COMPANY
3	DROP 1/2" DOW AND DHW DOWN AND ROUTE IN WALL TO BREAK ROOM FIXTURES
4	2 STAGE WATTS PRV STATION BY SUBCONTRACTOR, CALIBRATE PER CITY CODE
5	INSTALL MIXING VALVE IN LOW WALL, PROVIDE ACCESS PANEL UNDER COUNTERSPACE

GENERAL NOTES	
1	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
2	REFER TO PL401 AND PL801 FOR ENLARGED VIEWS AND RISER DIAGRAM

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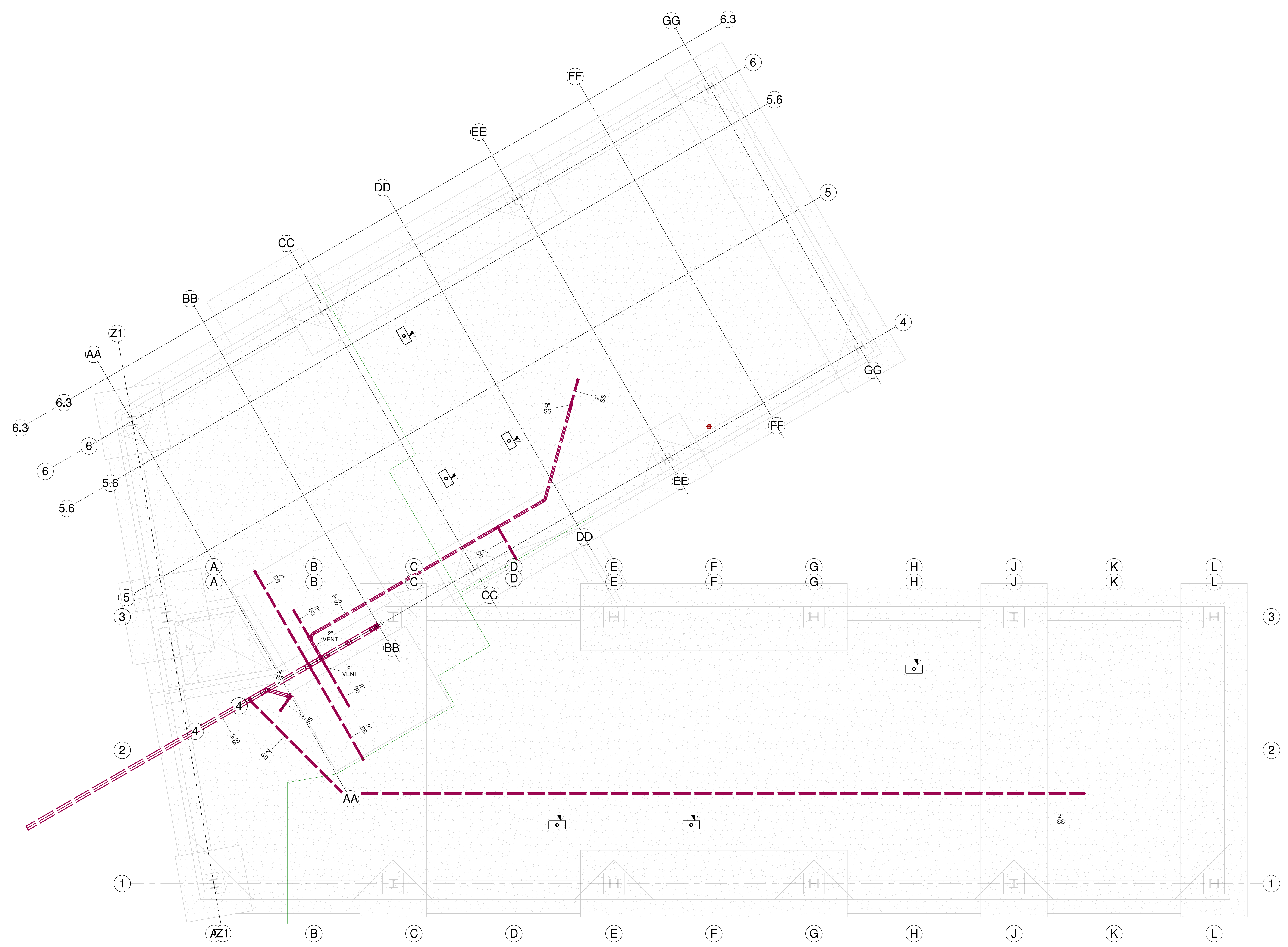
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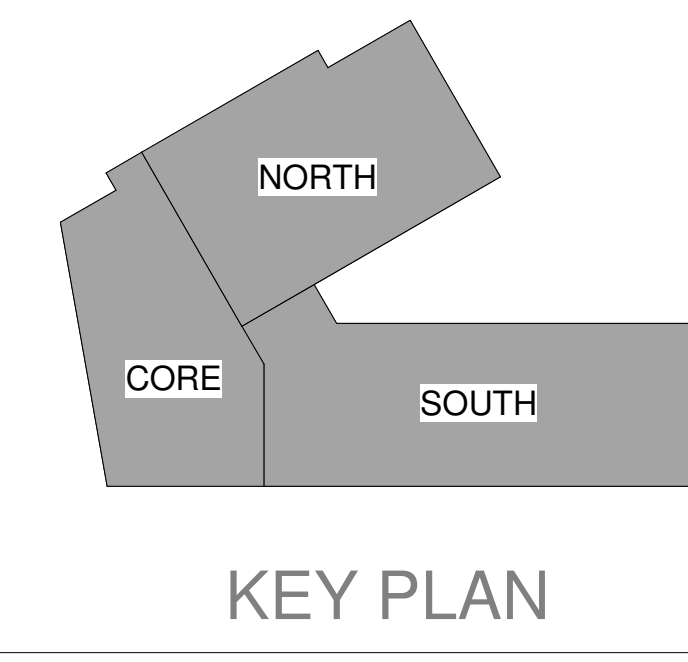
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① PLUMBING PLAN UNDERGROUND
 3/16" = 1'-0"



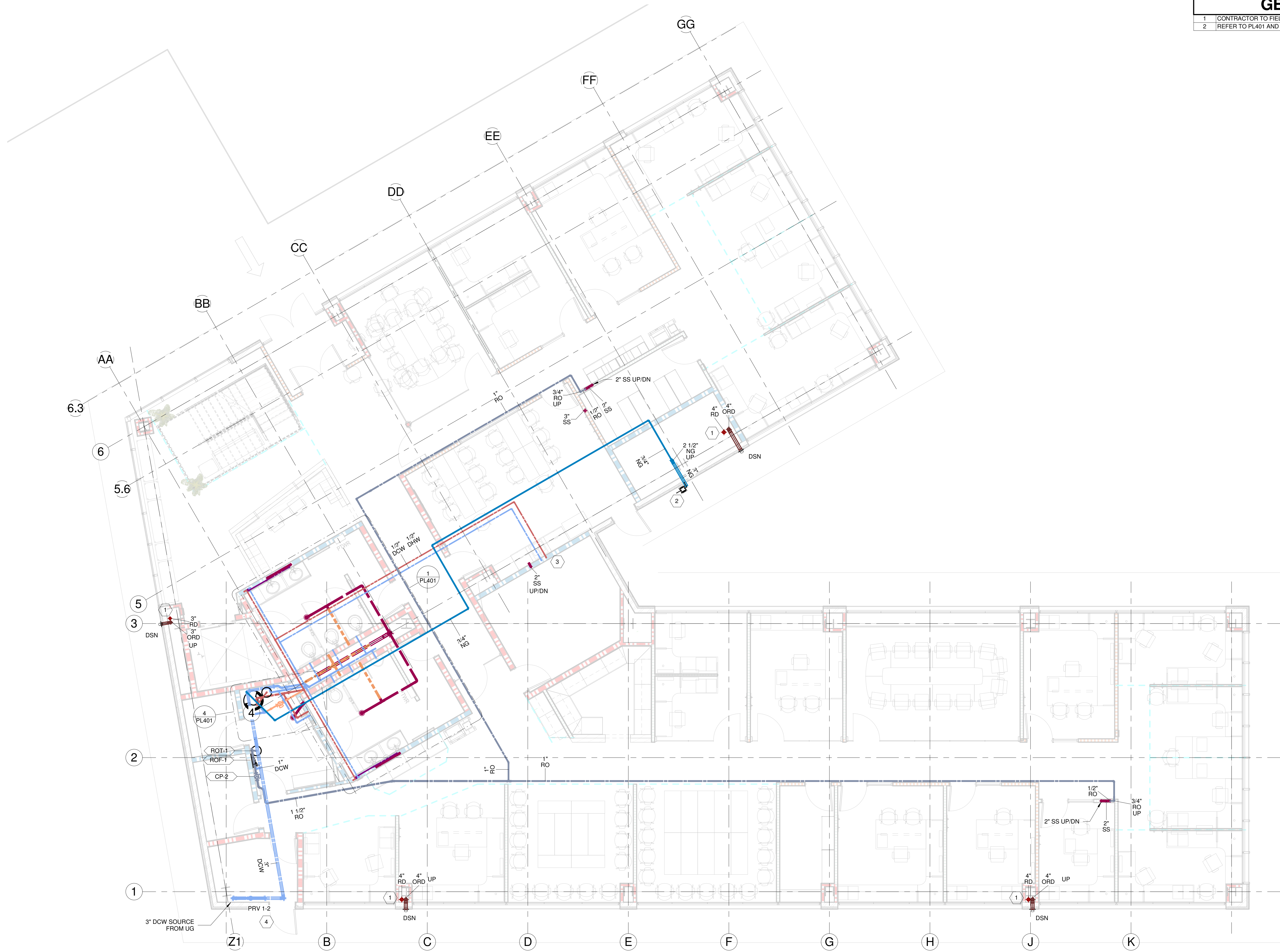
Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

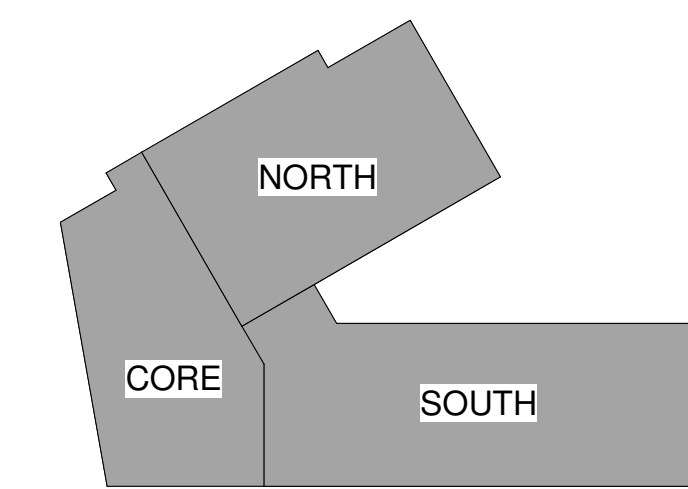
Sheet Name:
PLUMBING PLAN UNDERGROUND

PL100

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① PLUMBING PLAN LEVEL 1
3/16" = 1'-0"



KEY PLAN

SHEET KEYNOTES	
1	PRIMARY ROOF DRAIN TO DROP BELOW GRADE, OVERFLOW TO DSN
2	GAS METER TO BE INSTALLED BY LOCAL UTILITY COMPANY
3	DROP 1/2" DCW AND DHW DOWN AND ROUTE IN WALL TO BREAK ROOM FIXTURES
4	2 STAGE WATTS PRV STATION BY SUBCONTRACTOR, CALIBRATE PER CITY CODE COUNTERSPACE
5	INSTALL MIXING VALVE IN LOW WALL, PROVIDE ACCESS PANEL UNDER COUNTERSPACE

GENERAL NOTES	
1	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES
2	REFER TO PL401 AND PL801 FOR ENLARGED VIEWS AND RISER DIAGRAM

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Project Name:
Vortex Business Center

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Revision Schedule		
No.	Description	Date

Sheet Name:
PLUMBING PLAN LEVEL 1 OVERALL

PL101

SHEET KEYNOTES

- 1 PRIMARY ROOF DRAIN TO DROP BELOW GRADE, OVERFLOW TO DSN
- 2 GAS METER TO BE INSTALLED BY LOCAL UTILITY COMPANY
- 3 DROP 1/2" DOW AND DHW DOWN AND ROUTE IN WALL TO BREAK ROOM FIXTURES
- 4 2 STAGE WATTS PRV STATION BY SUBCONTRACTOR, CALIBRATE PER CITY CODE
- 5 INSTALL MIXING VALVE IN LOW WALL, PROVIDE ACCESS PANEL UNDER COUNTERSPACE

GENERAL NOTES

- 1 CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
- 2 REFER TO PL401 AND PL801 FOR ENLARGED VIEWS AND RISER DIAGRAM



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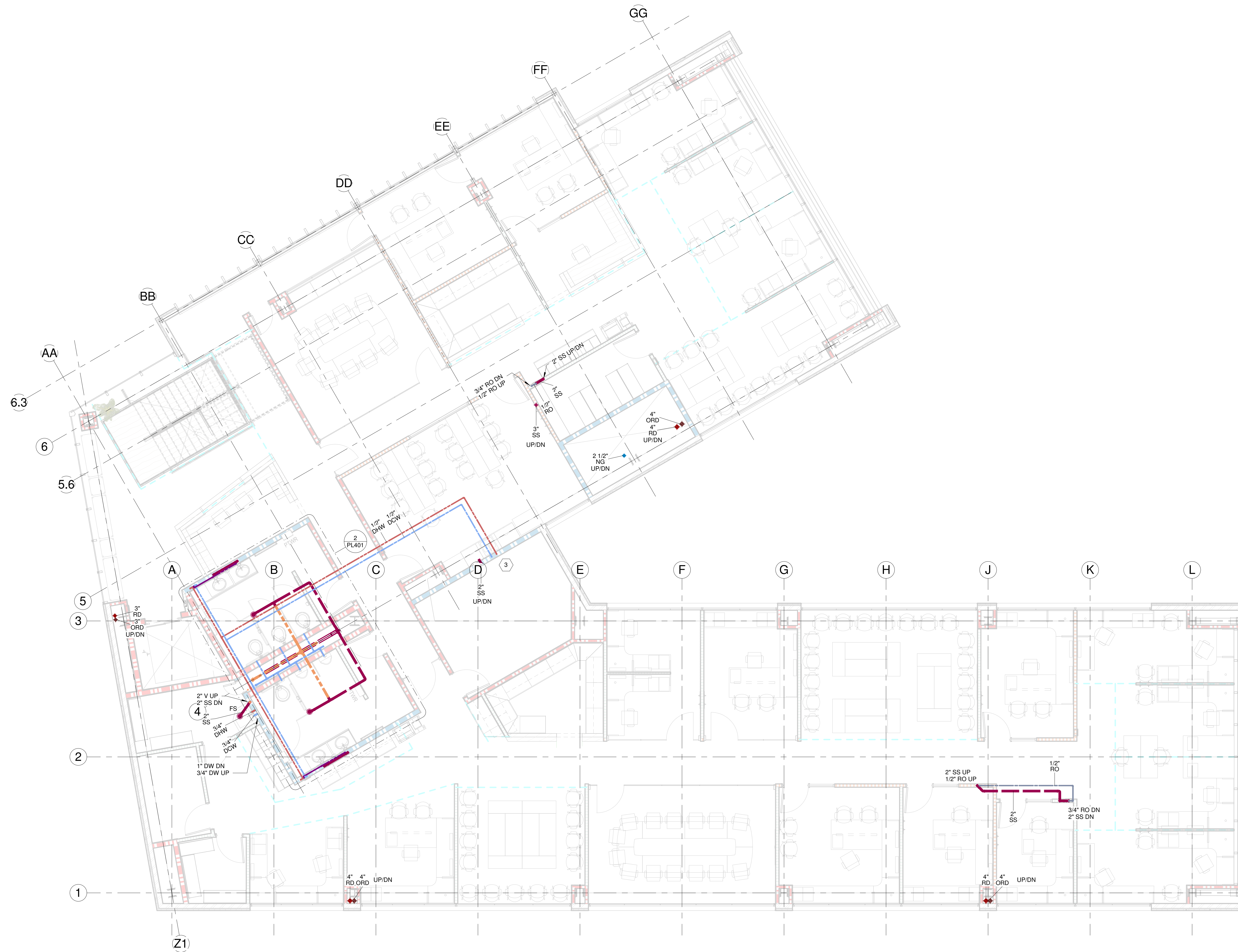
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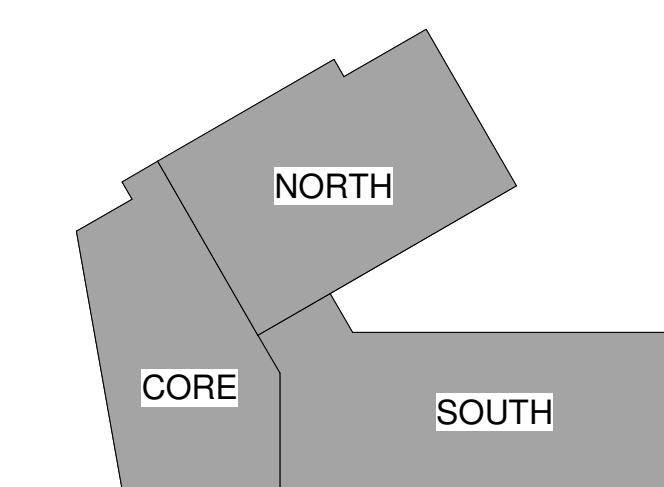
CONTRACTOR



ART VANDELAY



1 PLUMBING PLAN LEVEL 2
3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
PLUMBING PLAN LEVEL 2 OVERALL

PL102

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- SHEET KEYNOTES**
- 1 PRIMARY ROOF DRAIN TO DROP BELOW GRADE, OVERFLOW TO DSN
 - 2 GAS METER TO BE INSTALLED BY LOCAL UTILITY COMPANY
 - 3 DROP 1/2" DOW AND DHW DOWN AND ROUTE IN WALL TO BREAK ROOM FIXTURES
 - 4 2 STAGE WATTS PRV STATION BY SUBCONTRACTOR, CALIBRATE PER CITY CODE
 - 5 INSTALL MIXING VALVE IN LOW WALL, PROVIDE ACCESS PANEL UNDER COUNTERSPACE
- GENERAL NOTES**
- 1 CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES
 - 2 REFER TO PL401 AND PL901 FOR ENLARGED VIEWS AND RISER DIAGRAM

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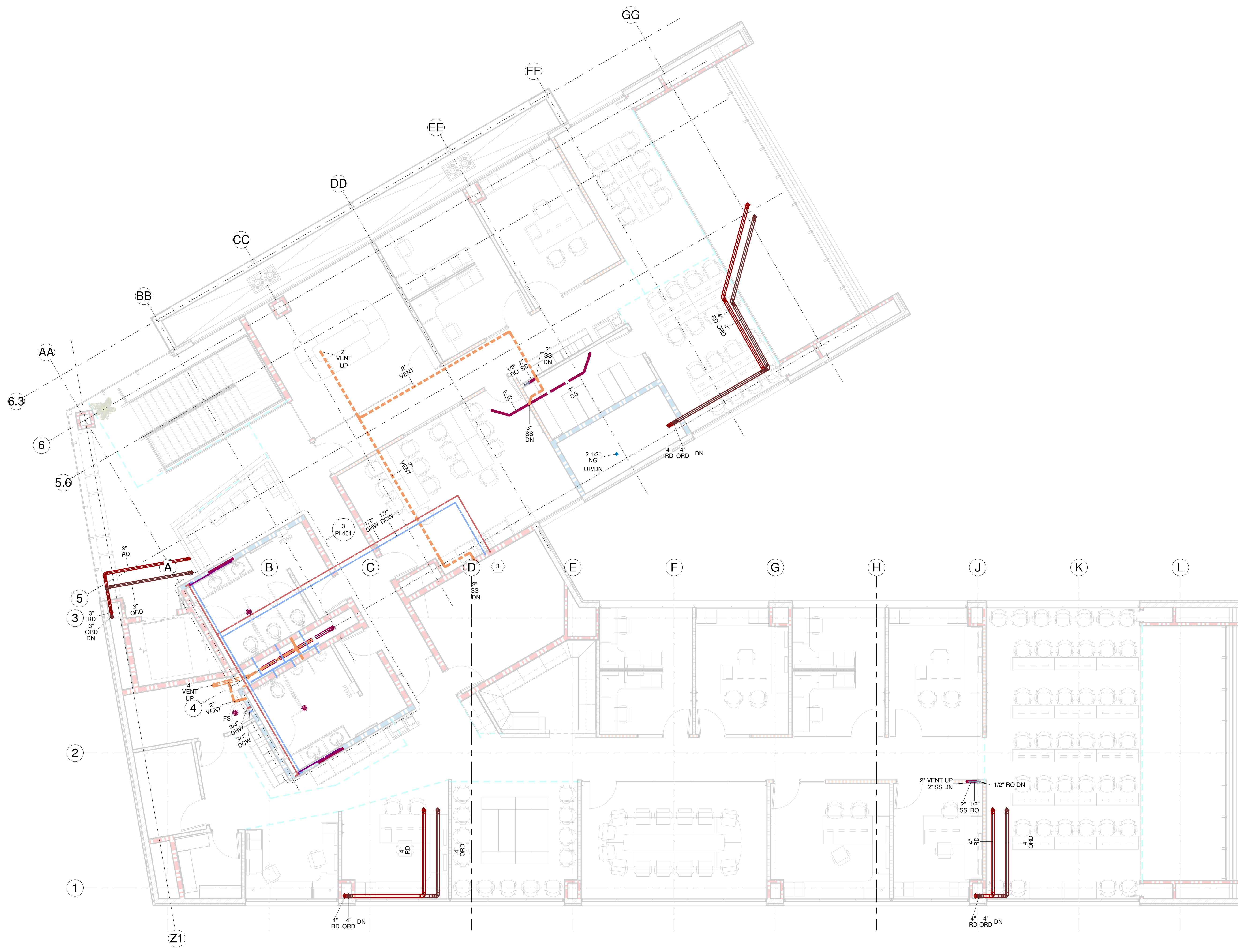
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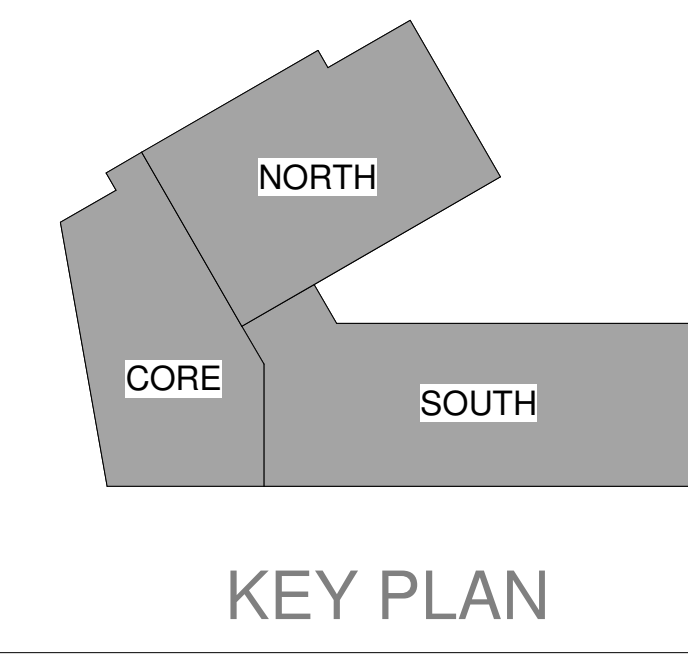
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1 PLUMBING PLAN LEVEL 3
 3/16" = 1'-0"



Project Name:
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Revision Schedule		
No.	Description	Date

Sheet Name:
PLUMBING PLAN LEVEL 3 OVERALL

PL103

SHEET KEYNOTES

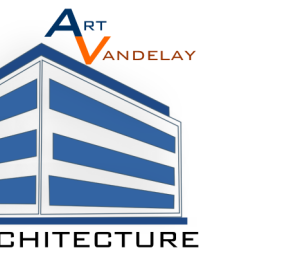
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- 2 GAS METER TO BE INSTALLED BY LOCAL UTILITY COMPANY
- 3 DROP 1/2" DOW AND DRAW DOWN AND ROUTE IN WALL TO BREAK ROOM FIXTURES
- 4 2 STAGE WATTS PRV STATION BY SUBCONTRACTOR, CALIBRATE PER CITY CODE COUNTERSPACE
- 5 INSTALL MIXING VALVE IN LOW WALL, PROVIDE ACCESS PANEL UNDER COUNTERSPACE

GENERAL NOTES

- 1 CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES.
- 2 REFER TO PL401 AND PL901 FOR ENLARGED VIEWS AND RISER DIAGRAM



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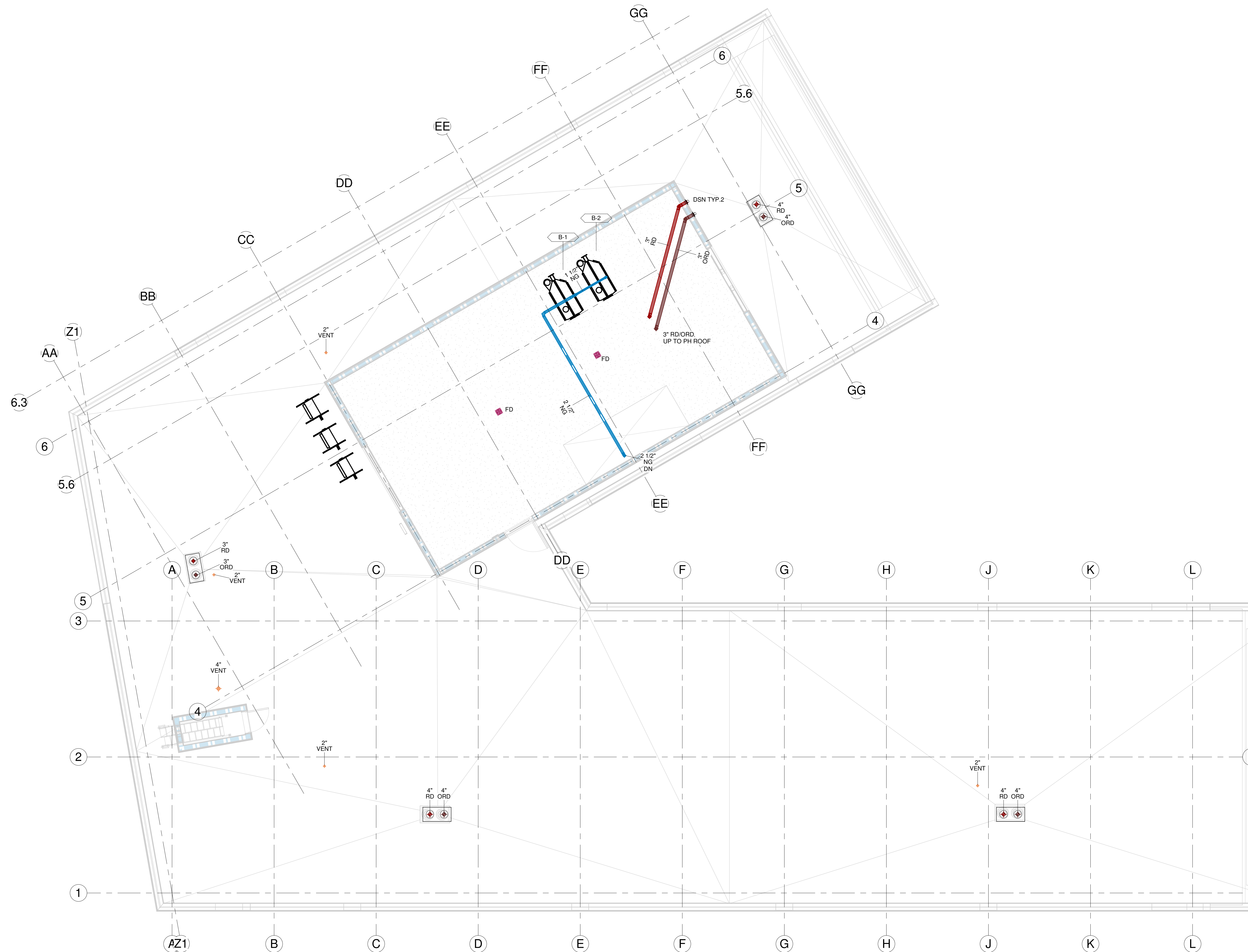
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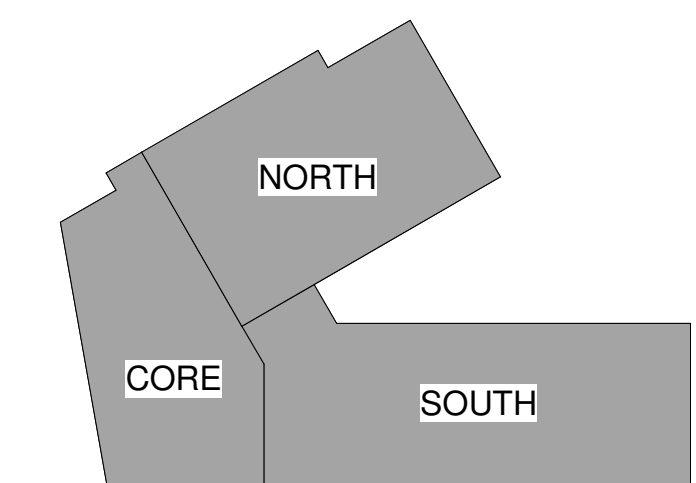
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1 PLUMBING PLAN ROOF
3/16" = 1'-0"



KEY PLAN

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
PLUMBING
PLAN ROOF

PL104

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SHEET KEYNOTES	
1	PRIMARY ROOF DRAIN TO DROP BELOW GRADE, OVERFLOW TO DSN
2	GAS METER TO BE INSTALLED BY LOCAL UTILITY COMPANY
3	DROP 1/2" DCW AND DHW DOWN AND ROUTE IN WALL TO BREAK ROOM FIXTURES
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5	INSTALL MIXING VALVE IN LOW WALL, PROVIDE ACCESS PANEL UNDER COUNTERSPACE

GENERAL NOTES	
1	CONTRACTOR TO FIELD COORDINATE WITH OTHER TRADES
2	REFER TO PL401 AND PL901 FOR ENLARGED VIEWS AND RISER DIAGRAM

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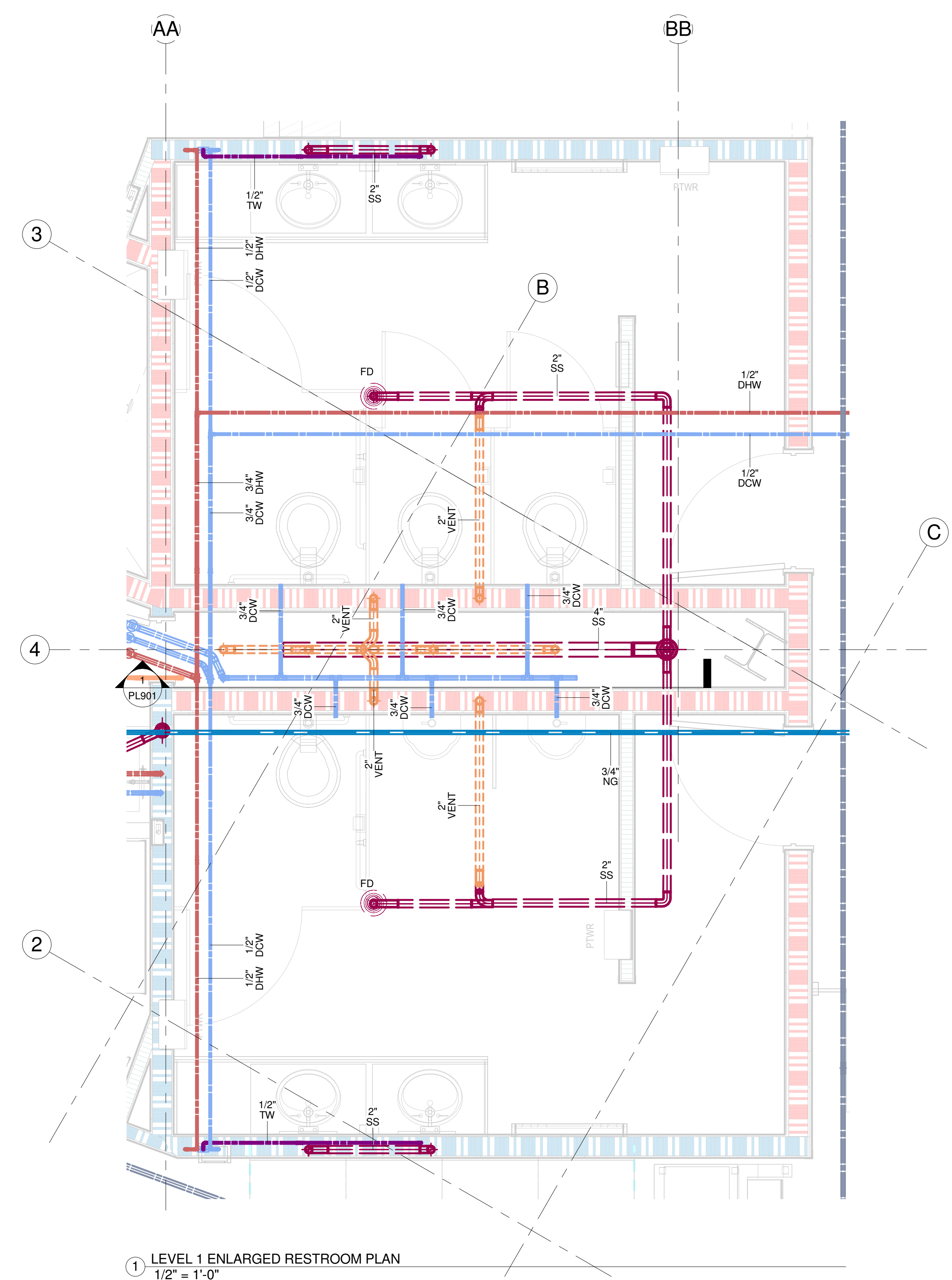
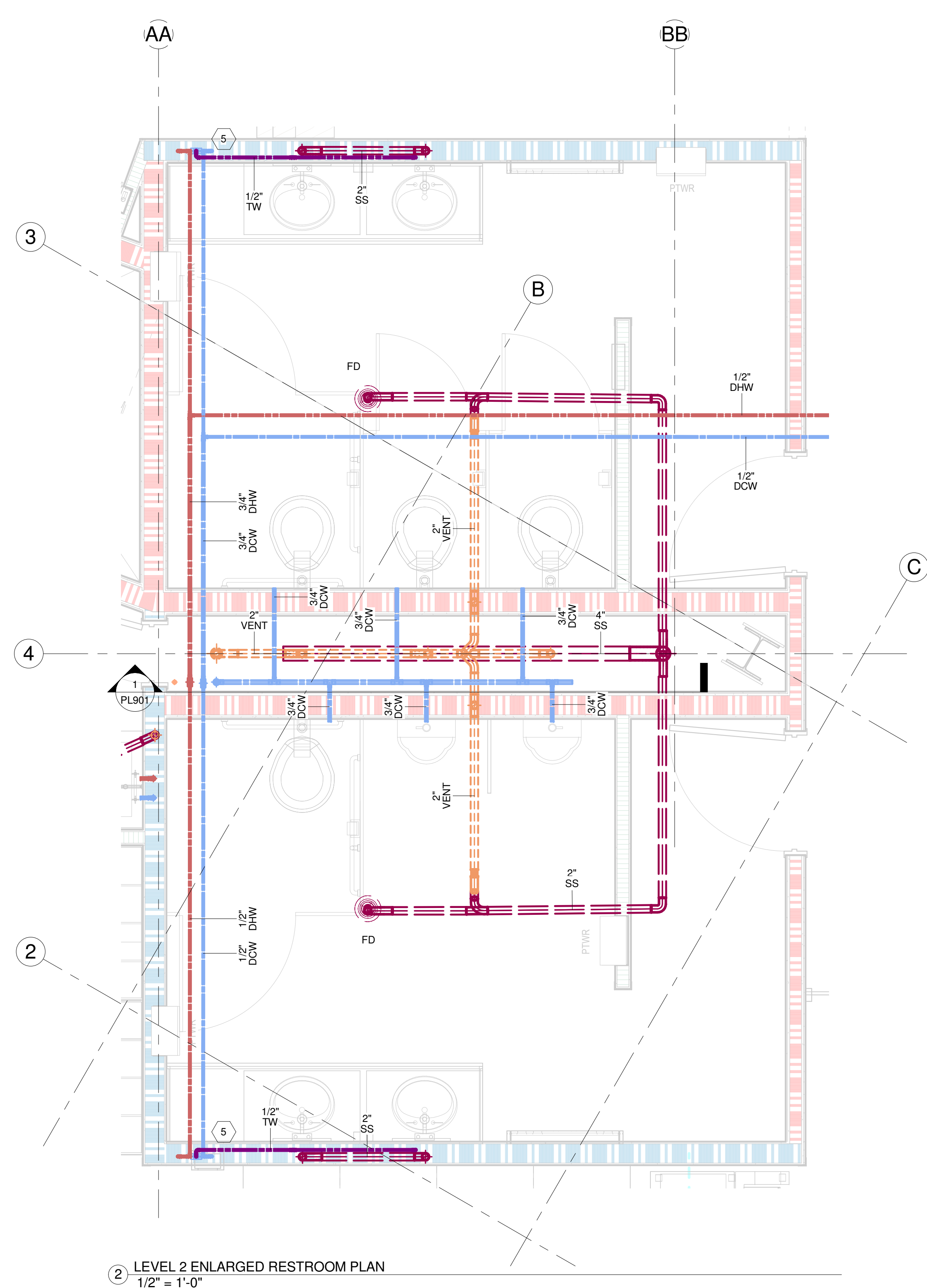
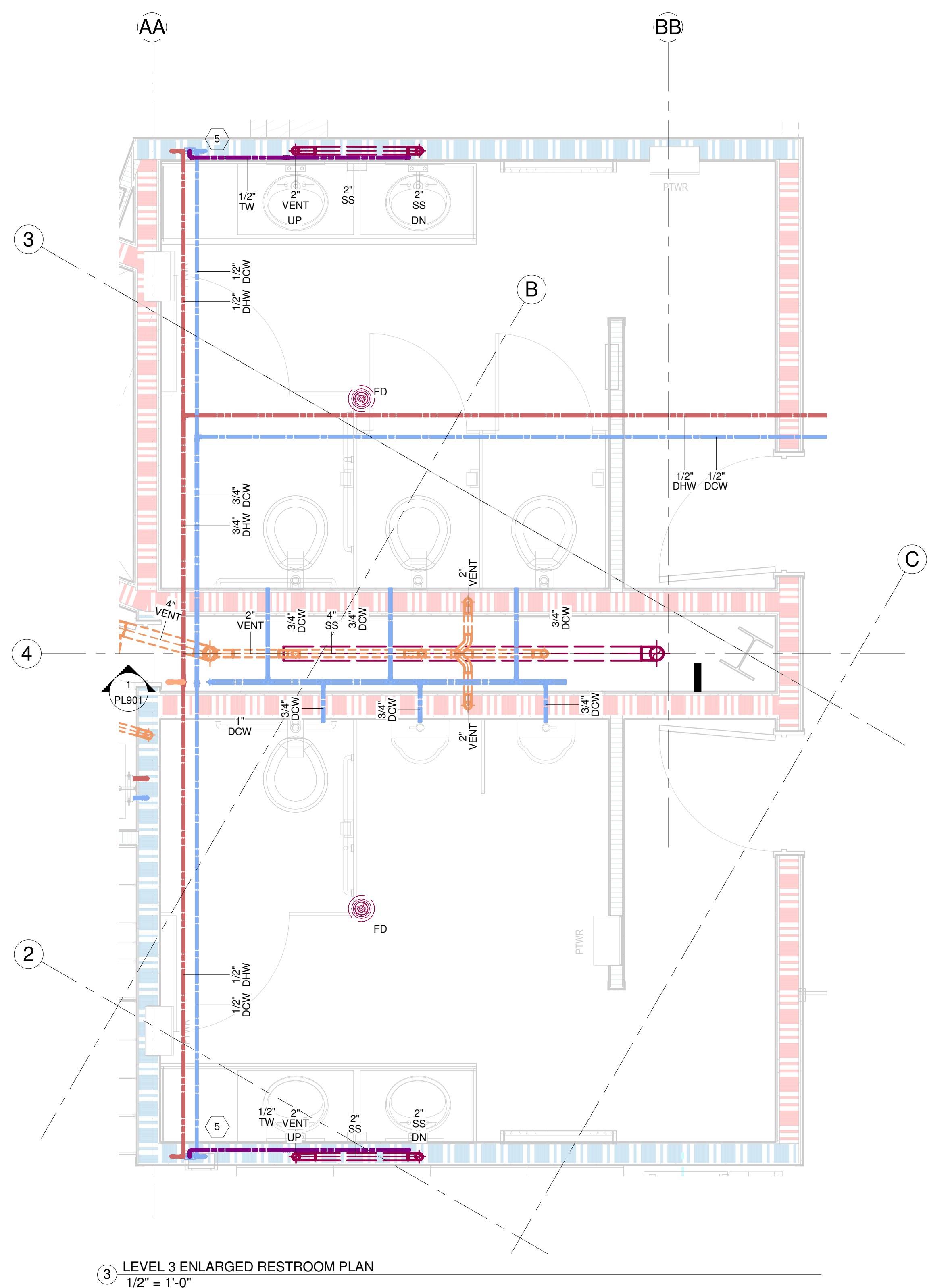
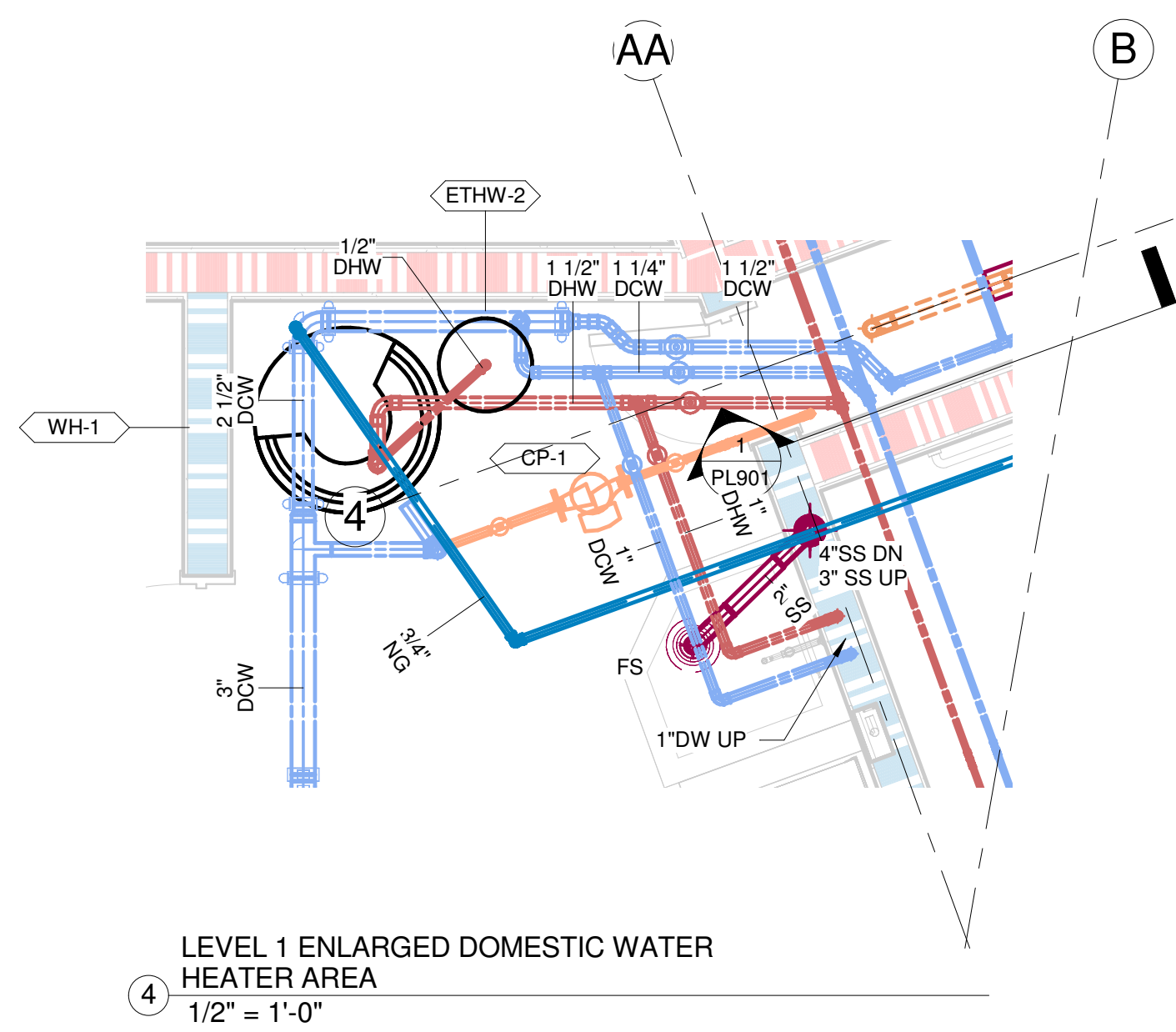
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Project Name:
Vortex Business Center

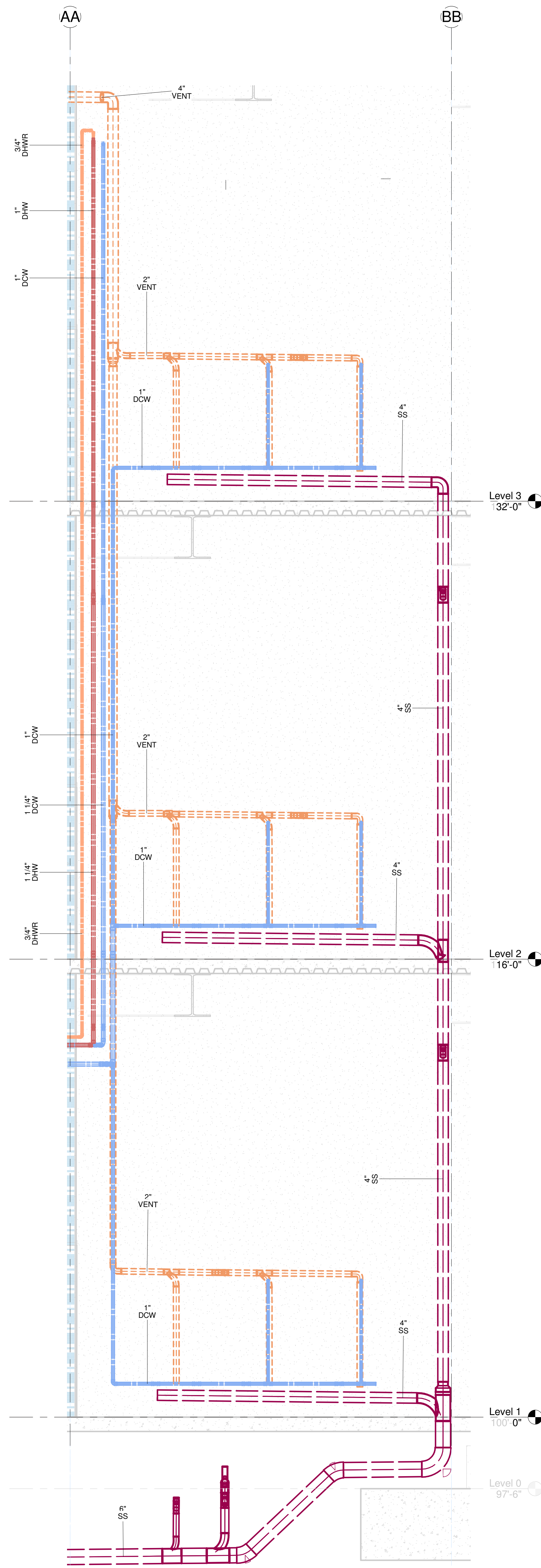
Revision Schedule		
No.	Description	Date

Sheet Name:
PLUMBING PLAN - ENLARGED VIEWS

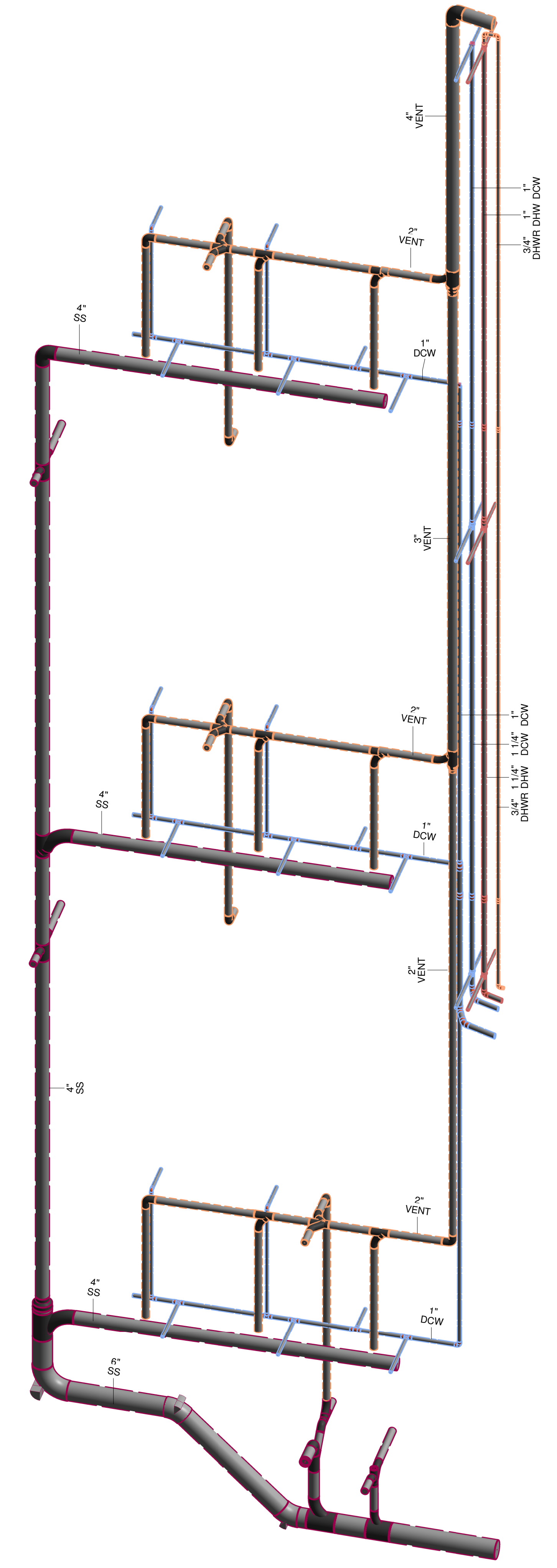
PL401

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1 MAIN WET WALL RISER DIAGRAM
1/2" = 1'-0"



2 MAIN WET WALL RISER ISOMETRIC

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ELECTRICAL ENGINEER

Cn3D
CONSTRUCTION
CONTRACTOR

ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

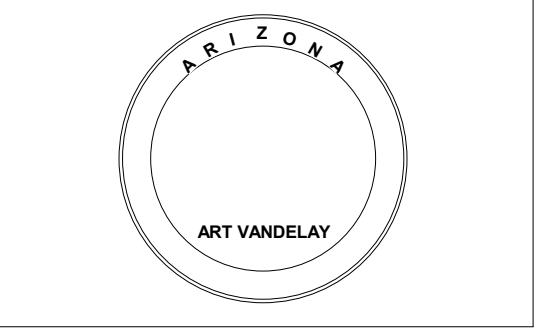
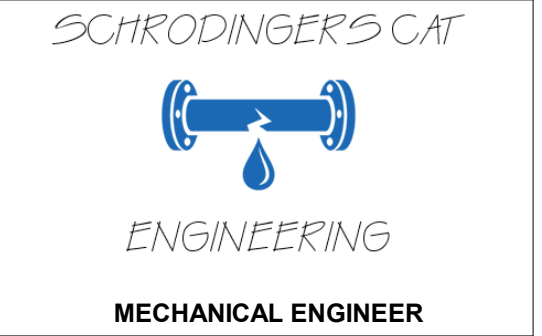
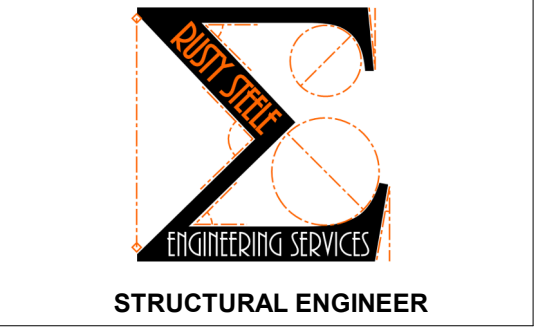
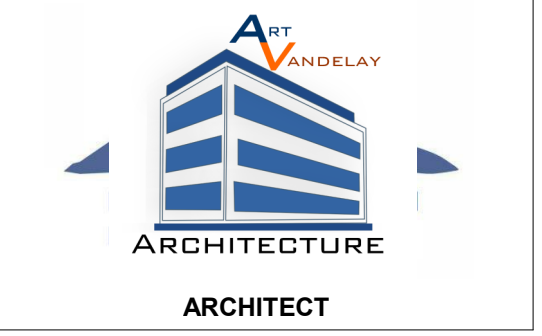
Sheet Name:
PLUMBING RISER DIAGRAM

PL901

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GENERAL SHEET NOTES	
1	ELECTRICAL SOLUTION ENGINEERING FIRM IS A CONSULTING FIRM. ALL INSTALLATION NEED TO BE VERIFIED BY ELECTRICAL SUB CONTRACTOR.
2	ANY INSTALLATION DISCREPANCIES WILL NEED FIELD COORDINATE. COMMUNICATE CONCERNS WITH OTHER TRADES AND GENERAL CONTRACTOR FOR CLEAR DIRECTION.
3	DURING PRE-PLANNING PROCESS FAMILIARIZE YOURSELF WITH THE DRAWING. REFER TO ARCHITECTURAL FOR FINAL DIRECTION WHEN NEEDED.
4	THE AHJ WILL GIVE THE FINAL APPROVAL DURING FIELD INSPECTIONS.
5	NATIONAL ELECTRIC CODE (NEC) WILL BE FOLLOWED. USE MOST CURRENT CODE PER LOCAL REQUIREMENTS.

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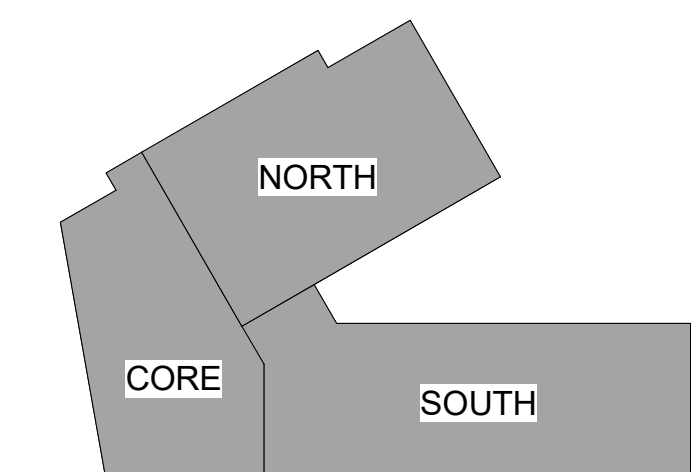
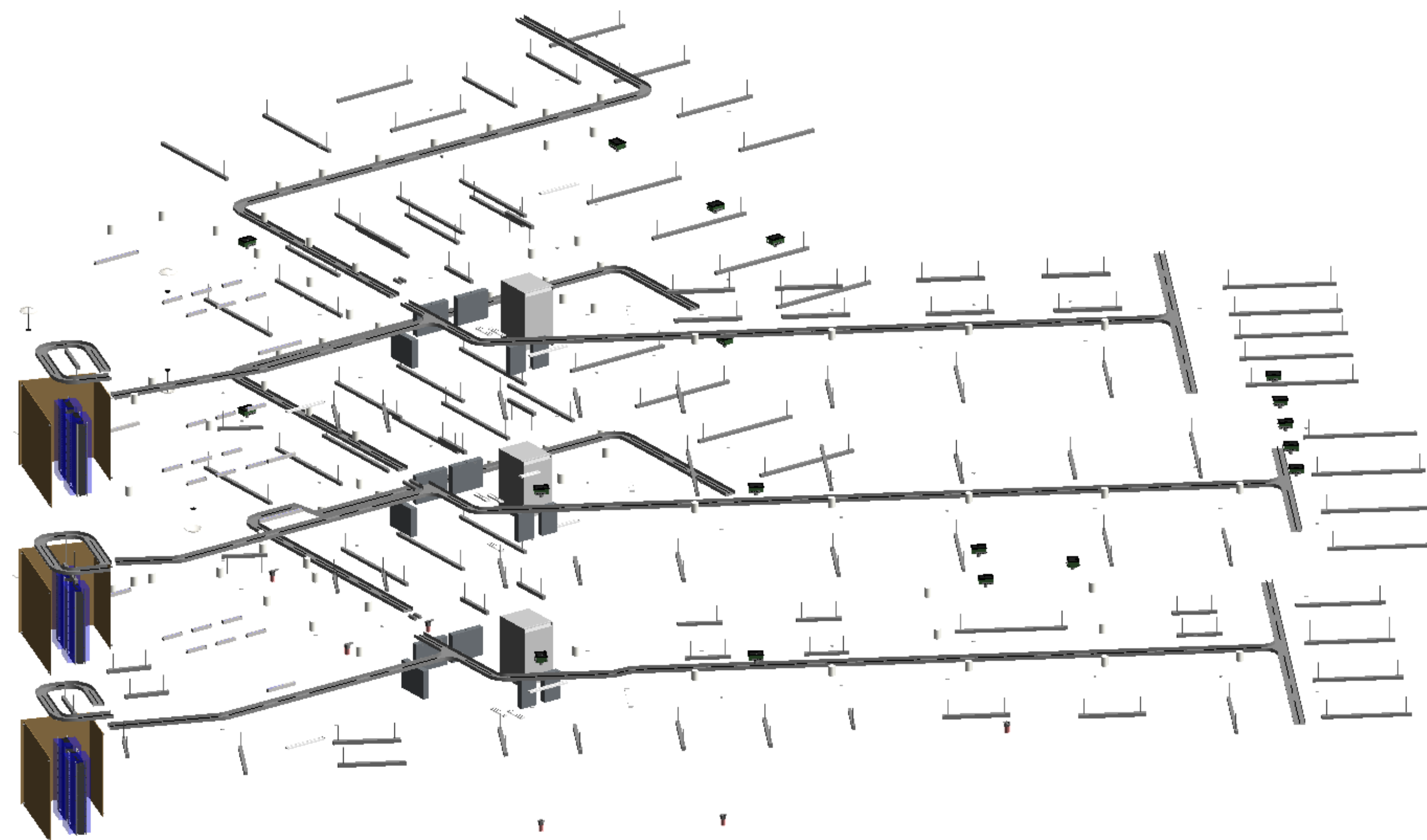
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Sheet Discipline	Sheet Issue Date	Sheet Name	Sheet Number	Drawn By	Sheet Classification
Welcome	11/4/2016	WELCOME	CN3D	Author	Welcome
Electrical	11/4/2016	SHEET INDEX, ABBREVIATIONS, SCHEDULES AND NOTES	EE001	N.Divers	General
Electrical	11/4/2016	ELECTRICAL POWER PLAN LEVEL 01	EP101	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL LIGHTING PLAN LEVEL 01	EL101	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL LIGHTING PLAN LEVEL 02	EL102	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL LIGHTING PLAN LEVEL 03	EL103	N.Divers	Floor Plan
Electrical	11/4/2016	ENLARGED ELECTRICAL ROOM PLAN	EE401	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL DETAILS	EE501	N.Divers	Detail
Electrical	11/4/2016	PANEL SCHEDULES	EE601	N.Divers	Schedules
Electrical	11/4/2016	ELECTRICAL POWER PLAN LEVEL 02	EP102	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL POWER PLAN LEVEL 03	EP103	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL TELECOM PLANS LEVEL 01	ET101	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL TELECOM PLANS LEVEL 02	ET102	N.Divers	Floor Plan
Electrical	11/4/2016	ELECTRICAL TELECOM PLANS LEVEL 03	ET103	N.Divers	Floor Plan

Lighting Fixture Schedule				
Type	Count	Manufacturer	Comments	
CM-4	28	Focal Point	Onsite installation verification	
DX-2	79	Lithonia Lighting	Onsite installation verification	
F4-4	10	Lithonia Lighting	Onsite installation verification	
F4-6	29	Lithonia Lighting	Onsite installation verification	
F4-8	22	Focal Point	Onsite installation verification	
F4-10	40	Focal Point	Onsite installation verification	
SA-1	14	Lithonia Lighting	Onsite installation verification	
TX-1	6	Lithonia Lighting	Onsite installation verification	
UC-2	11	Lithonia Lighting	Onsite installation verification	
UC-4	8	Focal Point	Onsite installation verification	

PANEL: "1LB1"															
VOLTS/PHASE/WIRE		PANEL SIZE & TYPE:		MAIN SIZE AND TYPE:		LOCATION:		CABINET:		NOTES:					
220		22" W x 8" D, BOLT-ON		100 AMPERE MAIN LUGS		ELEC ROOM 107		SURFACE							
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR															
CKT NO	AMP	POLE	LOAD (KVA)	PHASE LOAD			DESCRIPTION	LOAD (KVA)	CO	PWR	LTG	POLE	AMP	CKT NO	
				A	B	C									
1	20	1	0.0	0.0			SMALL OFFICE	0.0	0.0				1	20	2
3	20	1	0.0	0.0			SMALL OFFICE						1	20	4
5	20	1	--	--			SHARED OFFICE						1	20	6
7	20	1	--	--			PRINTING SPACE	0.0	0.0				1	20	8
9	20	1	--	--			BRK ROOM						1	20	10
11	20	1	--	--			BRK ROOM FLOOR BOX						1	20	12
13	20	1	--	--			MICROWAVE	0.0	0.0				1	20	14
15	20	1	--	--			KITCHEN COUNTER						1	20	16
17	20	1	--	--			REFRIDGERATOR						1	20	18
19	20	1	--	--			SPARE	0.0	0.0				1	20	20
21	20	1	--	--			SPARE						1	20	22
23	20	1	--	--			SPARE						1	20	24
25	20	1	--	--			SPARE	0.0	0.0				1	20	26
27	20	1	--	--			SPARE						1	20	28
29	20	1	--	--			SPARE						1	20	30
31	20	1	--	--			SPARE	0.0	0.0				1	20	32
33	20	1	--	--			SPARE						1	20	34
35	20	1	--	--			SPARE						1	20	36
37	50	1	--	--			SPARE	0.0	0.0				3	30	38
39	--	--	--	--			--						--	--	40
41	--	--	--	--			--						--	--	42

PANEL: "1LB2"															
VOLTS/PHASE/WIRE		PANEL SIZE & TYPE:		MAIN SIZE AND TYPE:		LOCATION:		CABINET:		NOTES:					
220		22" W x 8" D, BOLT-ON		100 AMPERE MAIN LUGS		ELEC ROOM 107		SURFACE							
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR															
CKT NO	AMP	POLE	LOAD (KVA)	PHASE LOAD			DESCRIPTION	LOAD (KVA)	CO	PWR	LTG	POLE	AMP	CKT NO	
				A	B	C									
1	20	1	0.0	0.0			SPARE	0.0	0.0				1	20	2
3	20	1	0.0	0.0			RECEPTION SECURITY	0.0	0.0				1	20	4
5	20	1	--	--			LOBBY						1	20	6
7	20	1	--	--			WOMENS RESTROOM						1	20	8
9	20	1	--	--			HALLWAY						1	20	10
11	20	1	--	--			MENS RESTROOM	0.0	0.0				1	20	12
13	20	1	--	--			SMALL CONFERENCE						1	20	14
15	20	1	--	--			UTILITY OUTLET						1	20	16
17	20	1	--	--			FLING						1	20	18
19	20	1	--	--			SMALL OPEN OFFICE						1	20	20
21	20	1	--	--			SPARE						1	20	22
23	20	1	--	--			WORK ROOM	0.0	0.0				1	20	24
25	20	1	--	--			SPARE						1	20	26
27	20	1	--	--			SPARE	0.0	0.0				1	20	28
29	20	1	--	--			SPARE						1	20	30
31	20	1	--	--			SPARE	0.0	0.0				1	20	32
33	20	1	--	--			SPARE						1	20	34
35	20	1	--	--			SPARE						1	20	36
37	50	1	--	--			SPARE	0.0	0.0				3	30	38
39	--	--	--	--			--						--	--	40
41	--	--	--	--			--						--	--	42

PANEL: "1LB3"															
VOLTS/PHASE/WIRE		PANEL SIZE & TYPE:		MAIN SIZE AND TYPE:		LOCATION:		CABINET:		NOTES:					
220		22" W x 8" D, BOLT-ON		100 AMPERE MAIN LUGS		ELEC ROOM 107		SURFACE							
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR															
CKT NO	AMP	POLE	LOAD (KVA)	PHASE LOAD			DESCRIPTION	LOAD (KVA)	CO	PWR	LTG	POLE	AMP	CKT NO	
				A	B	C									
1	20	1	0.0	0.0			MEDIUM TEAM AREA FLOOR BOX	0.0	0.0				1	20	2
3	20	1	0.0	0.0			EXECUTIVE OFFICE						1	20	4
5	20	1	--	--			WOMENS RESTROOM						1	20	6
7	20	1	--	--			HALLWAY						1	20	8
9	20	1	--	--			SMALL OFFICE	0.0	0.0				1	20	10
11	20	1	--	--			SHARED OFFICE						1	20	12
13	20	1	--	--			SMALL OFFICE	0.0	0.0				1	20	14
15	20	1	--	--			LARGE CONFERENCE FLOOR BOX						1	20	16
17	20	1	--	--			LARGE CONFERENCE FLOOR BOX						1	20	18
19	20	1	--	--			LARGE CONFERENCE FLOOR BOX	0.0	0.0				1	20	20
21	20	1	--	--			SPARE						1	20	22
23	20	1	--	--			SPARE	0.0	0.0				1	20	24
25	20	1	--	--			SPARE						1	20	26
27	20	1	--	--			SPARE	0.0	0.0				1	20	28
29	20	1	--	--			SPARE						1	20	30
31	20	1	--	--			SPARE	0.0	0.0				1	20	32
33	20	1	--	--			SPARE						1	20	34
35	20	1	--	--			SPARE						1	20	36
37	50	1	--	--			SPARE	0.0	0.0				3	30	38
39	--	--	--	--			--						--	--	40
41	--	--	--	--			--						--	--	42

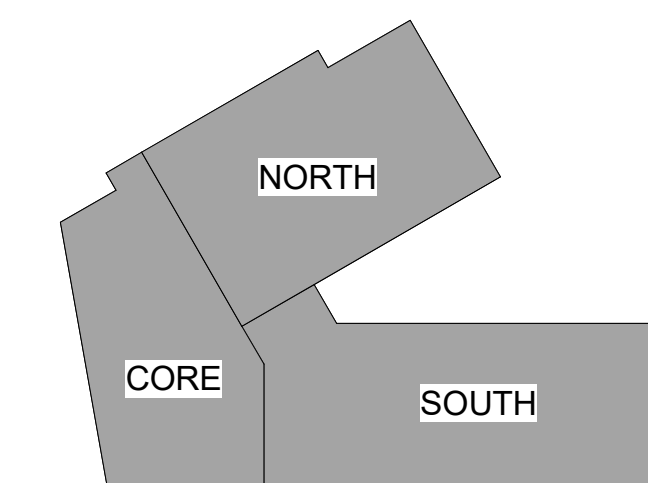
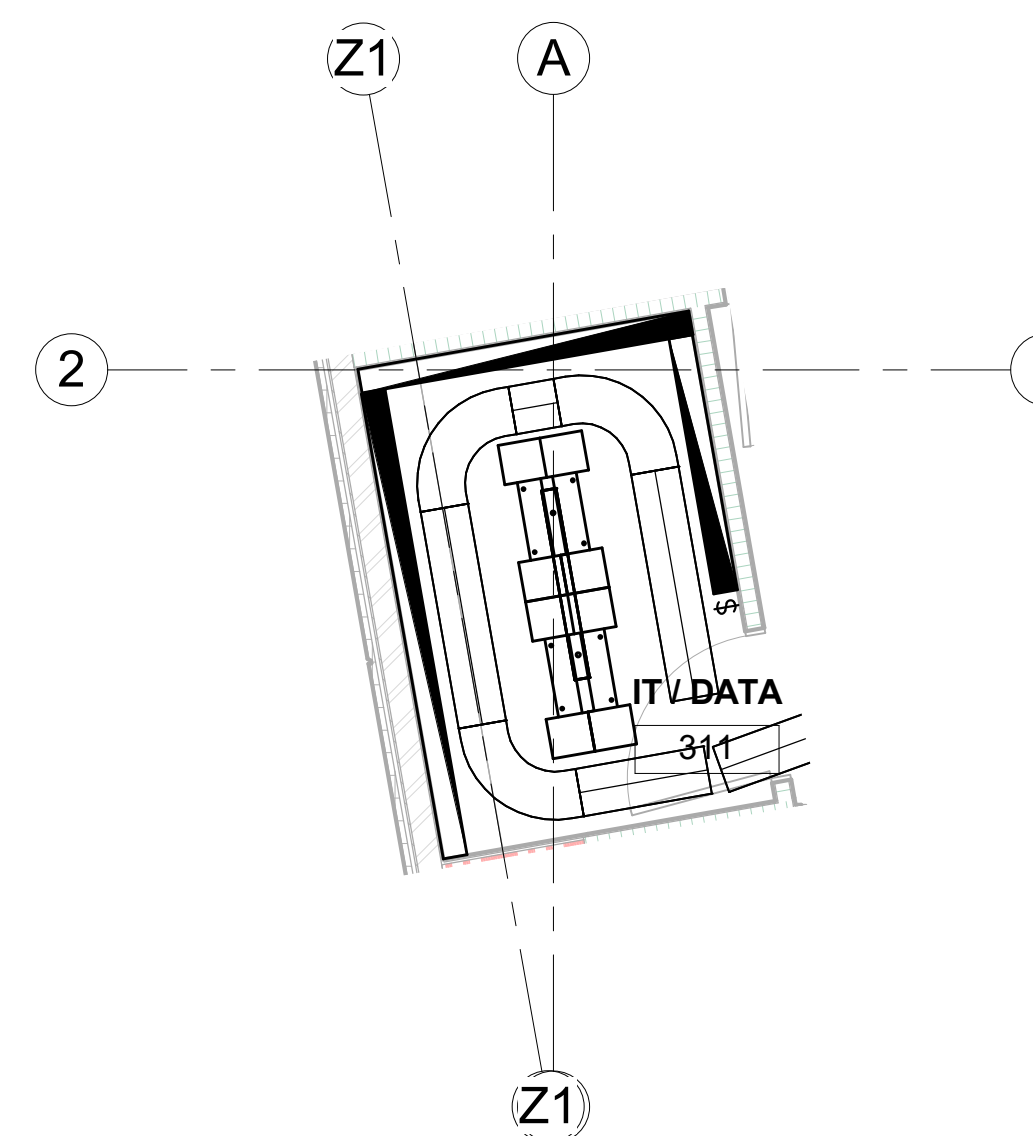
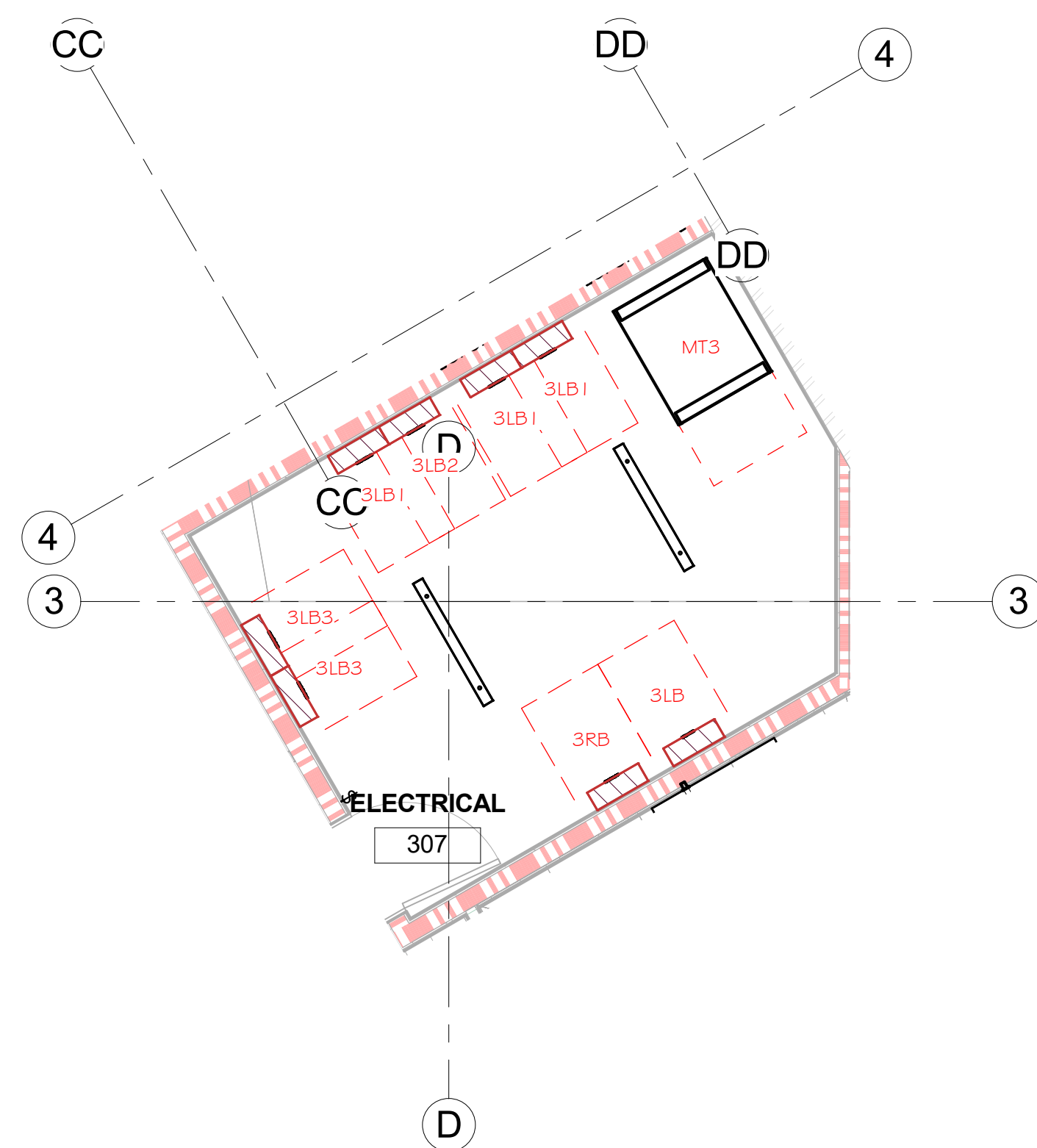
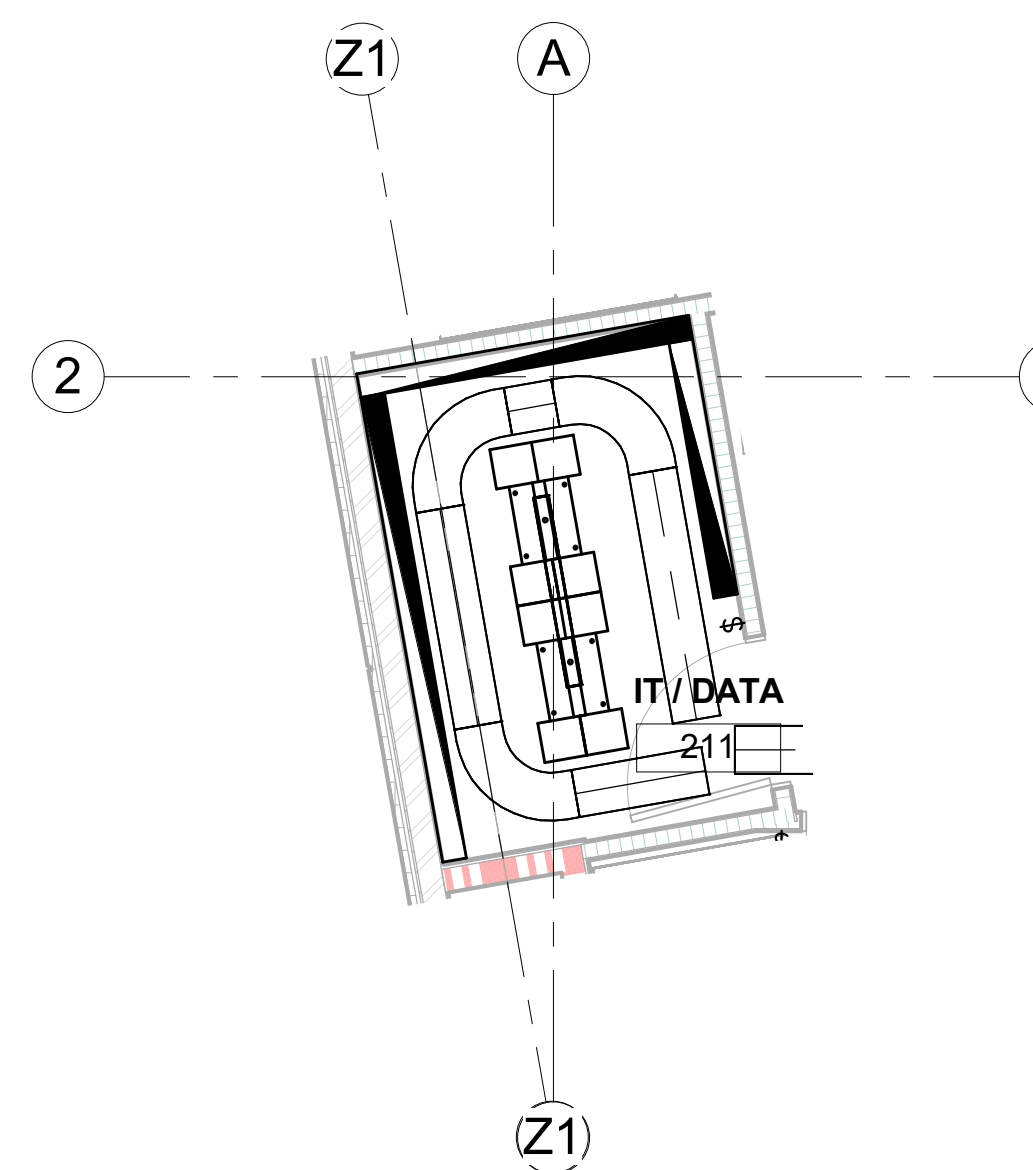
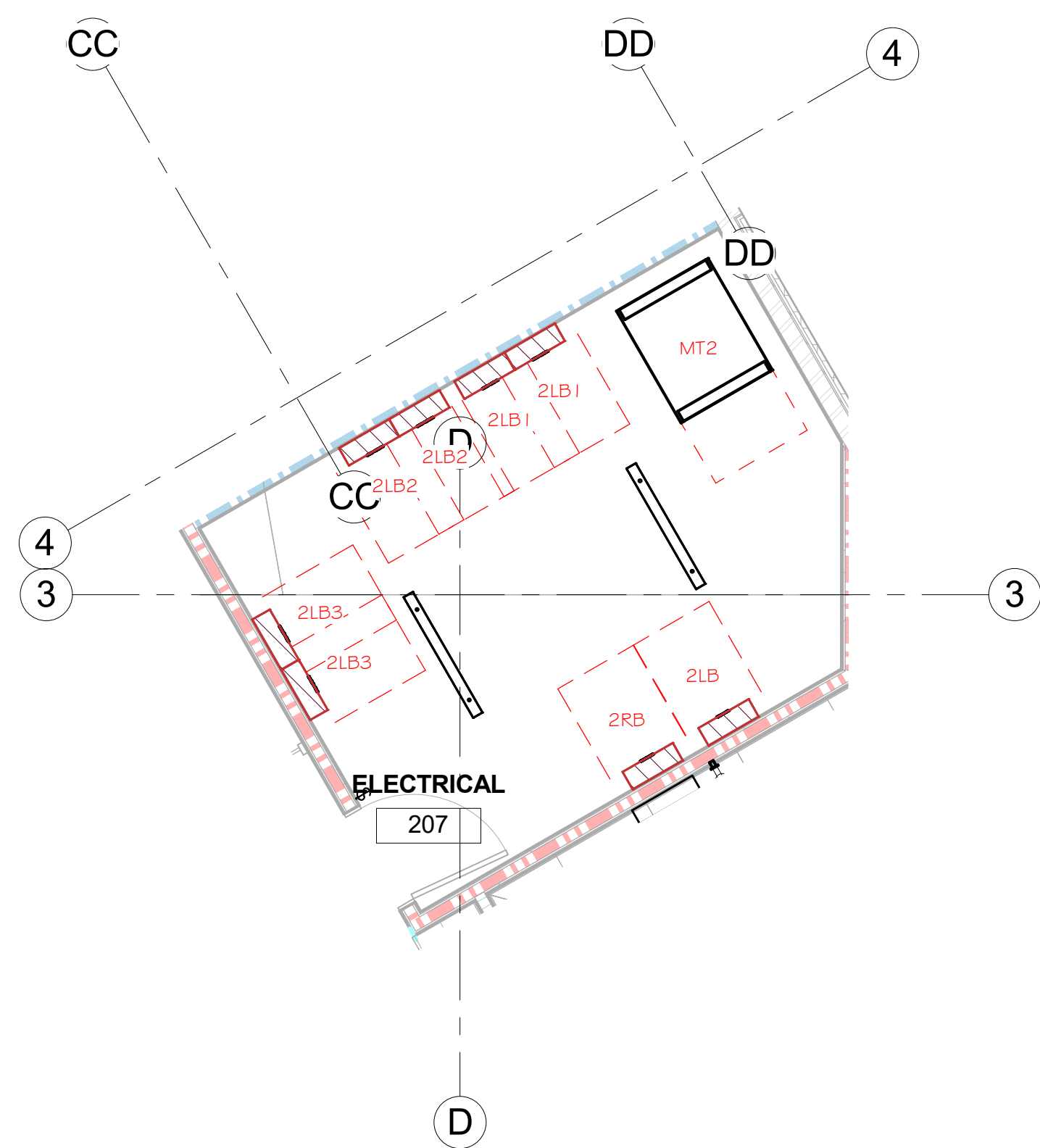
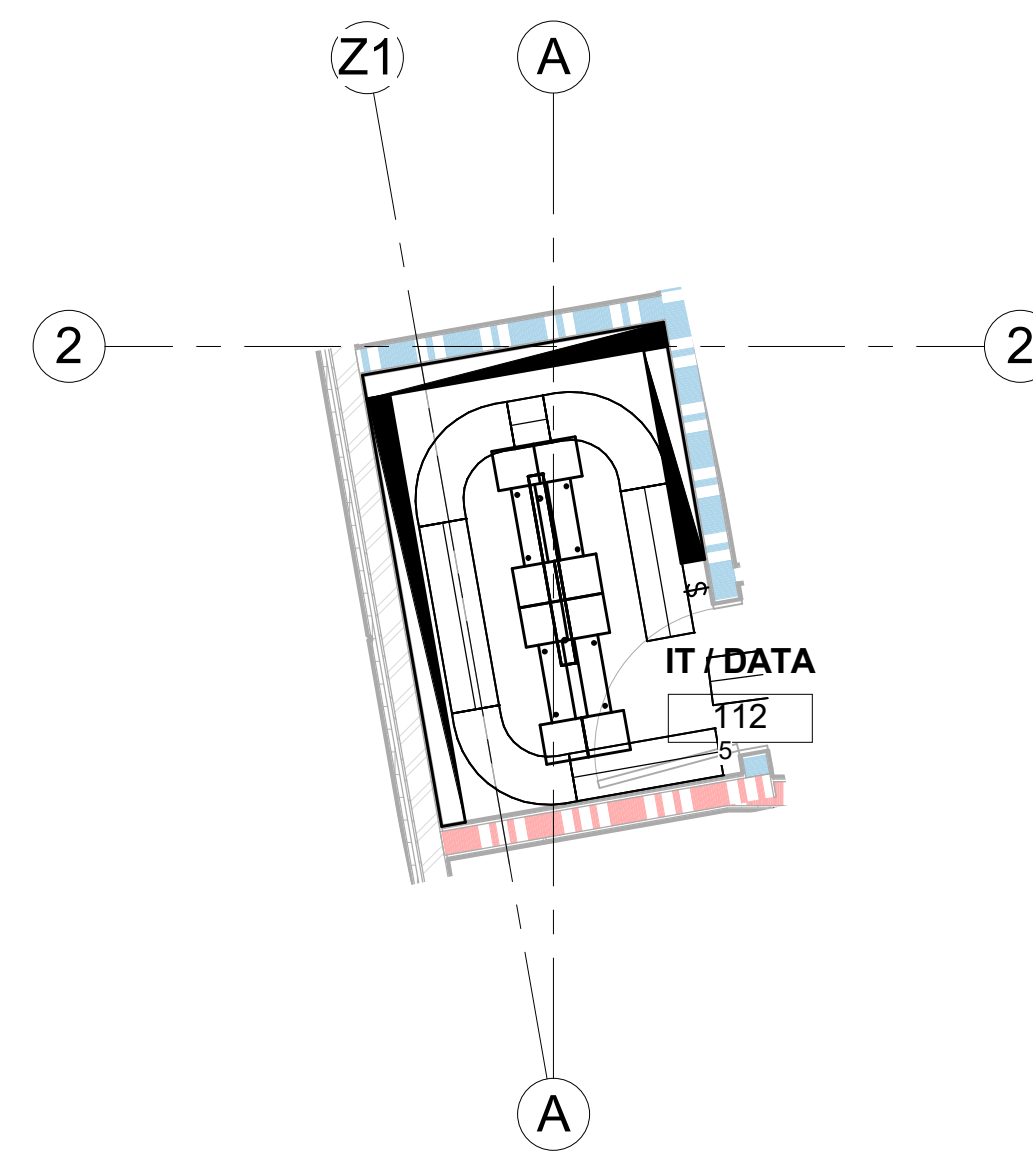
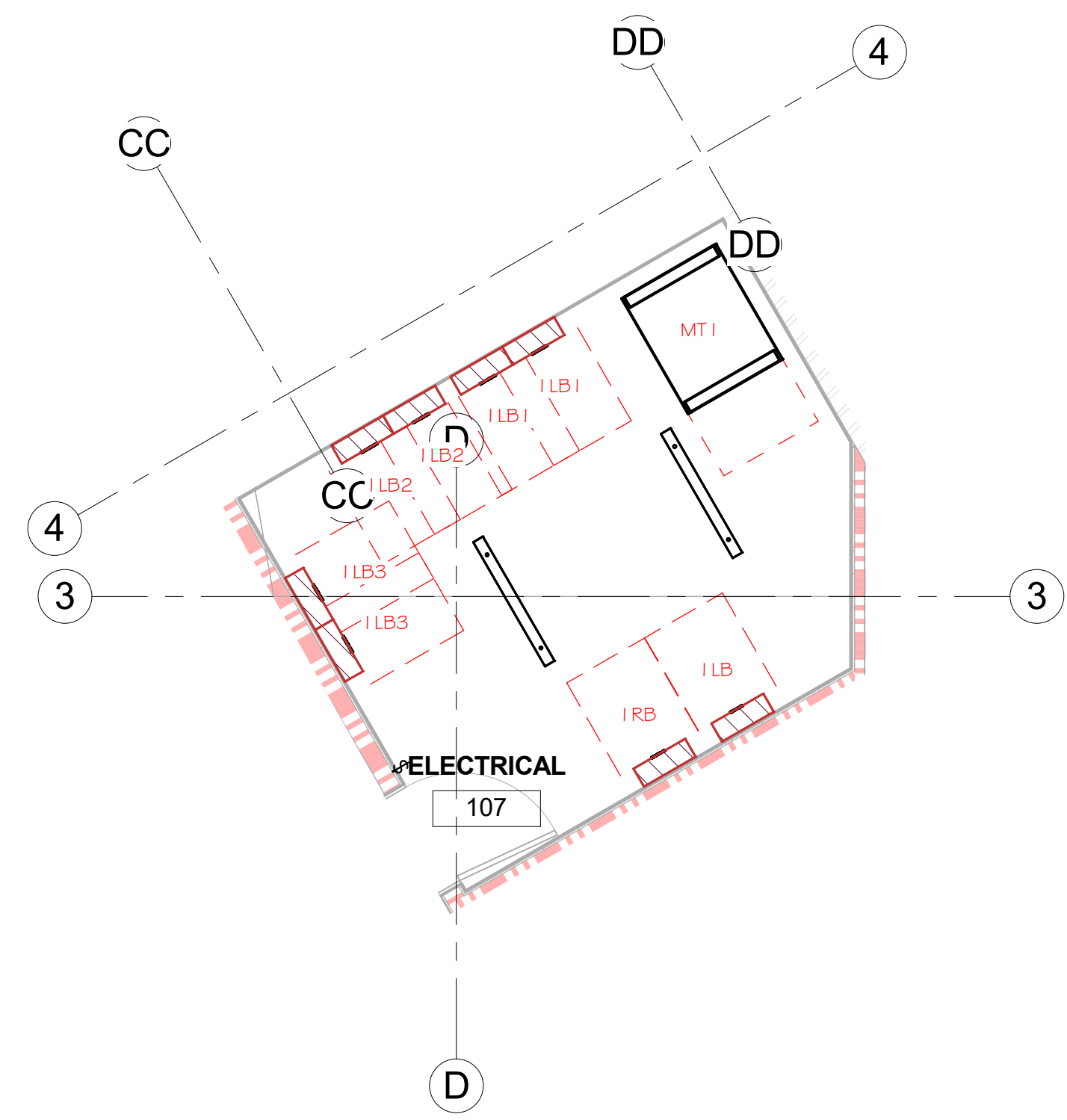


Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
SHEET INDEX, ABBREVIATIONS, SCHEDULES AND NOTES

EE001



KEY PLAN

GENERAL SHEET NOTES

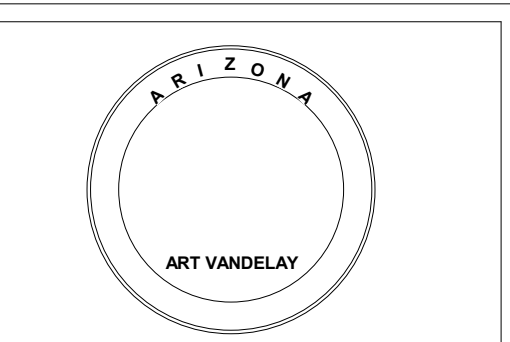
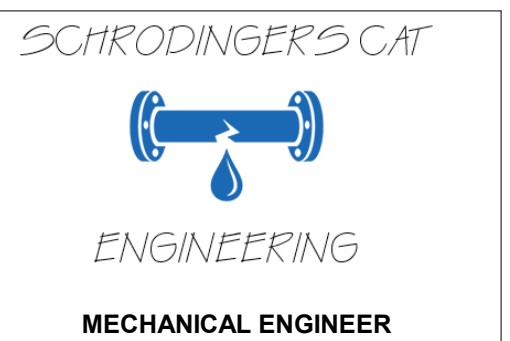
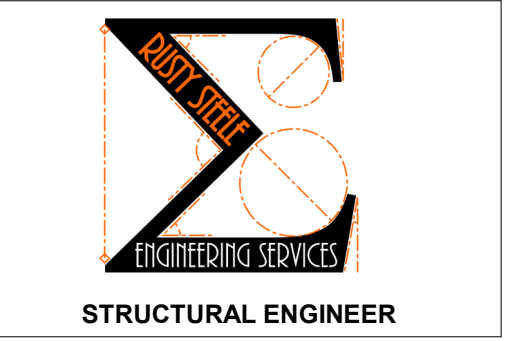
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- 3 DURING PRE-PLANNING PROCESS FAMILIARIZE YOURSELF WITH THE DRAWING. REFER TO ARCHITECTURAL FOR FINAL DIRECTION WHEN NEEDED.
- 4 THE AHJ WILL GIVE THE FINAL APPROVAL DURING FIELD INSPECTIONS.
- 5 NATIONAL ELECTRIC CODE (NEC) WILL BE FOLLOWED. USE MOST CURRENT CODE PER LOCAL REQUIREMENTS.

BOCT	BOTTOM OF CABLE TRAY
CBR	CONDUIT BEND RADIUS
COC	CENTER OF CONDUIT
COCT	CENTER OF CABLE TRAY
COH	CENTER OF HANGER
TOCT	TOP OF CABLE TRAY
TOH	TOP OF HANGER
TOU	TOP OF UNISTRUT

- 5 POWER NEEDED FOR MECHANICAL CONTROL WILL BE DETERMINED AT TIME OF INSTALLATION.



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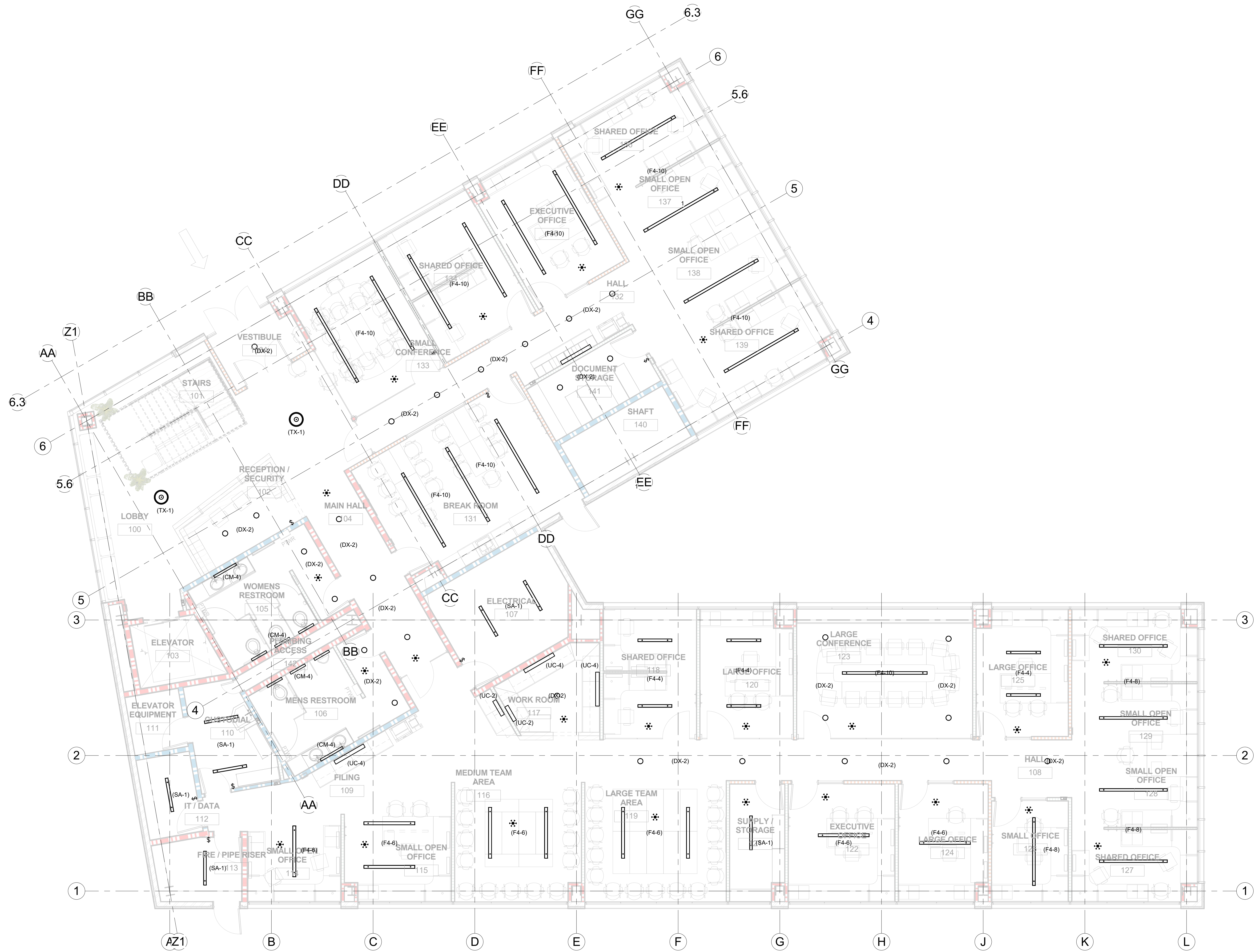
Revision Schedule		
No.	Description	Date

Sheet Name:
ENLARGED ELECTRICAL ROOM PLAN

EE401

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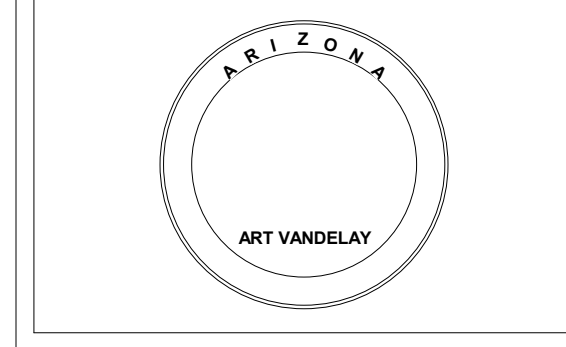
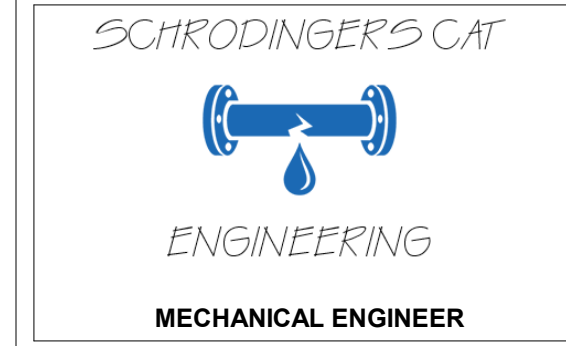
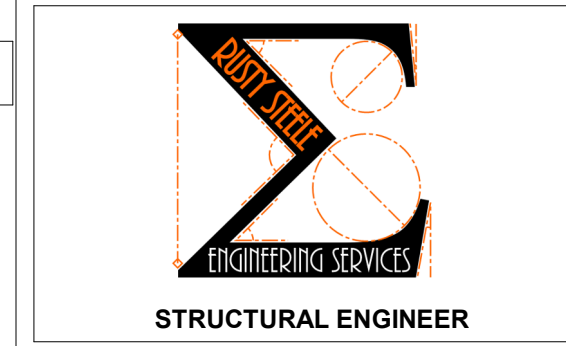
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4. THE AHJ WILL GIVE THE FINAL APPROVAL DURING FIELD INSPECTIONS.
5. NATIONAL ELECTRIC CODE (NEC) WILL BE FOLLOWED. USE MOST CURRENT CODE PER LOCAL REQUIREMENTS.

BOCT	BOTTOM OF CABLE TRAY
CBR	CONDUIT BEND RADIUS
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COCT	CENTER OF CABLE TRAY
COH	CENTER OF HANGER
TOCT	TOP OF CABLE TRAY
TOH	TOP OF HANGER
TOU	TOP OF UNISTRUT

1. COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT AS REQUIRED.



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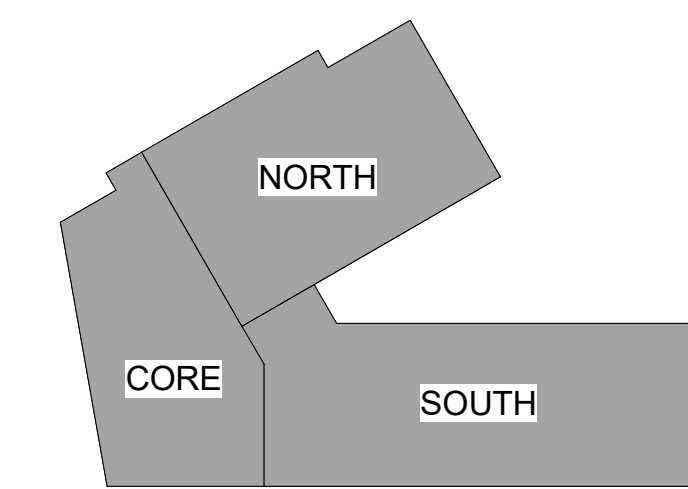


Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
ELECTRICAL LIGHTING PLAN LEVEL 01

EL101



KEY PLAN

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BOCT	BOTTOM OF CABLE TRAY
CBR	CONDUIT BEND RADIUS
COC	CENTER OF CONDUIT
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ELECTRICAL SOLUTION ENGINEERING LLC
 ELECTRICAL ENGINEER

Cn3D CONSTRUCTION
 CONTRACTOR

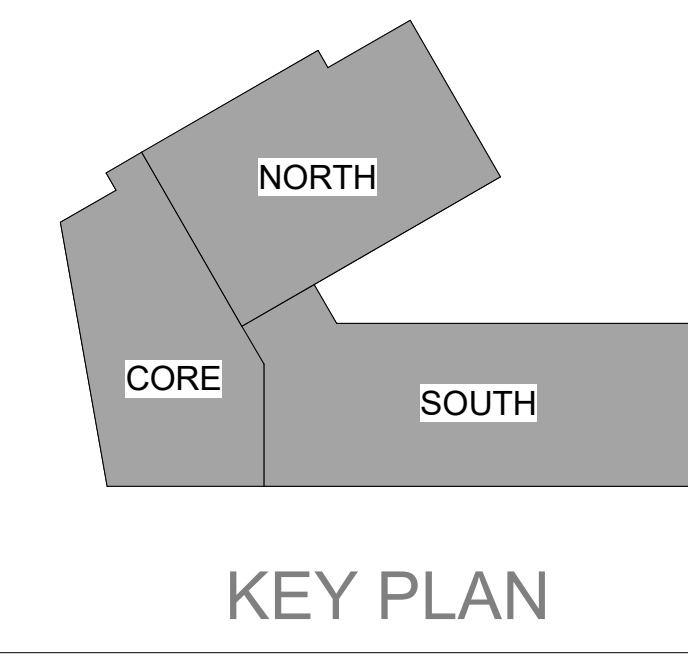
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Revision Schedule		
No.	Description	Date

Sheet Name:
ELECTRICAL LIGHTING PLAN LEVEL 02

EL102



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- 5 NATIONAL ELECTRIC CODE (NEC) WILL BE FOLLOWED. USE MOST CURRENT CODE PER LOCAL REQUIREMENTS.

1 COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT AS REQUIRED.

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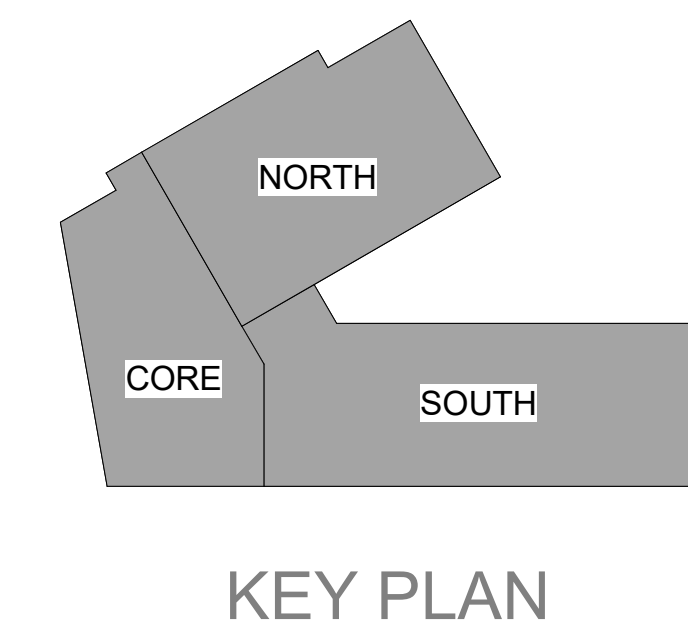
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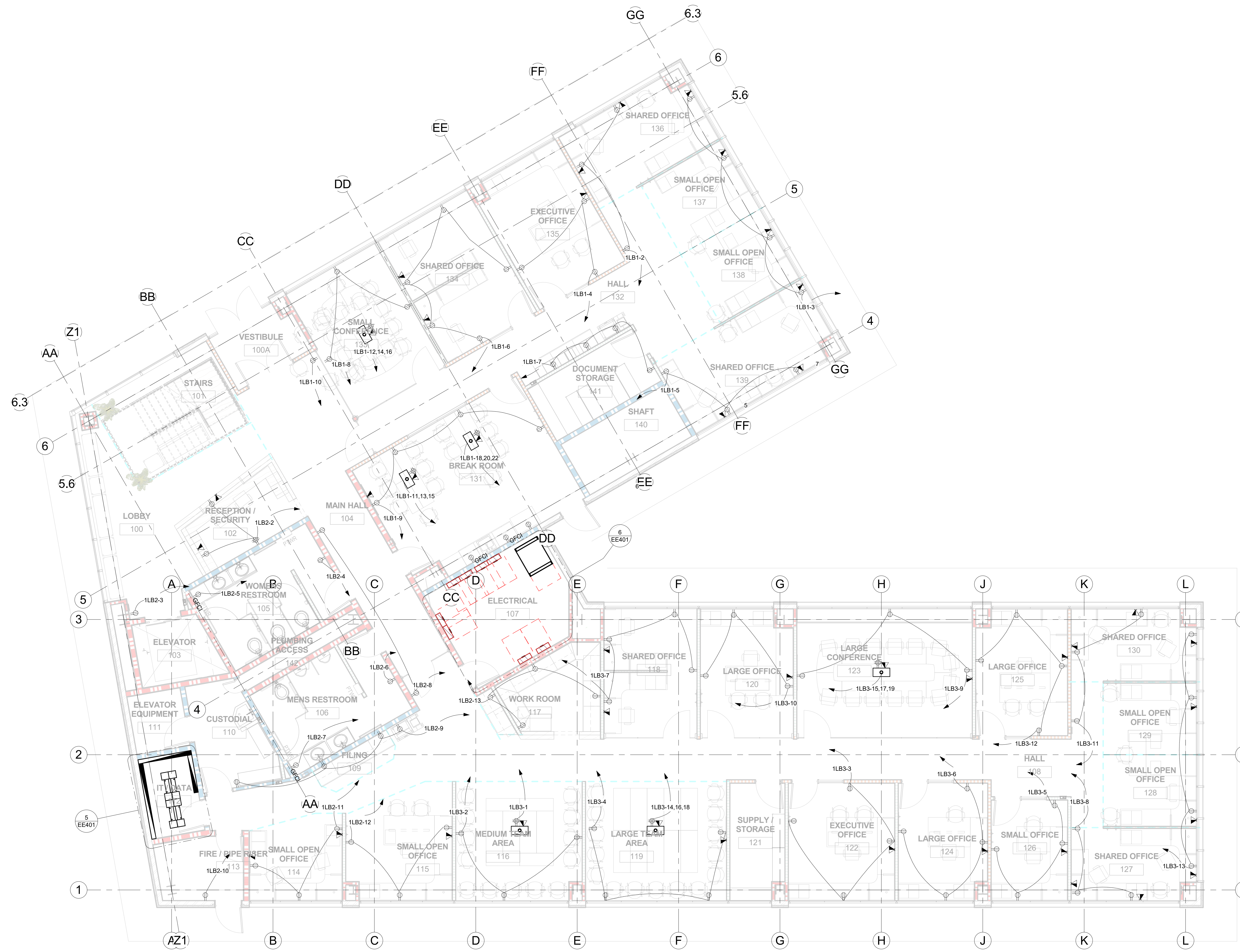
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Revision Schedule		
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Sheet Name:
ELECTRICAL LIGHTING PLAN LEVEL 03

EL103





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 - 5 NATIONAL ELECTRIC CODE (NEC) WILL BE FOLLOWED. USE MOST CURRENT CODE PER LOCAL REQUIREMENTS.
- | | |
|------|----------------------|
| BOCT | BOTTOM OF CABLE TRAY |
| CBR | CONDUIT BEND RADIUS |
| COC | CENTER OF CONDUIT |
| COCT | CENTER OF CABLE TRAY |
| COH | CENTER OF HANGER |
| TOCT | TOP OF CABLE TRAY |
| TOH | TOP OF HANGER |
| TOU | TOP OF UNISTRUT |

- 5 POWER NEEDED FOR MECHANICAL CONTROL WILL BE DETERMINED AT TIME OF INSTALLATION.
- 6 ELECTRICAL SUBCONTRACTOR SHALL INSTALL ALL DEVICES LEVEL, PLUMB AND VERTICAL WHEN APPLICABLE.
- 7 COORDINATE FLOOR BOX LOCATIONS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.

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 CONTRACTOR

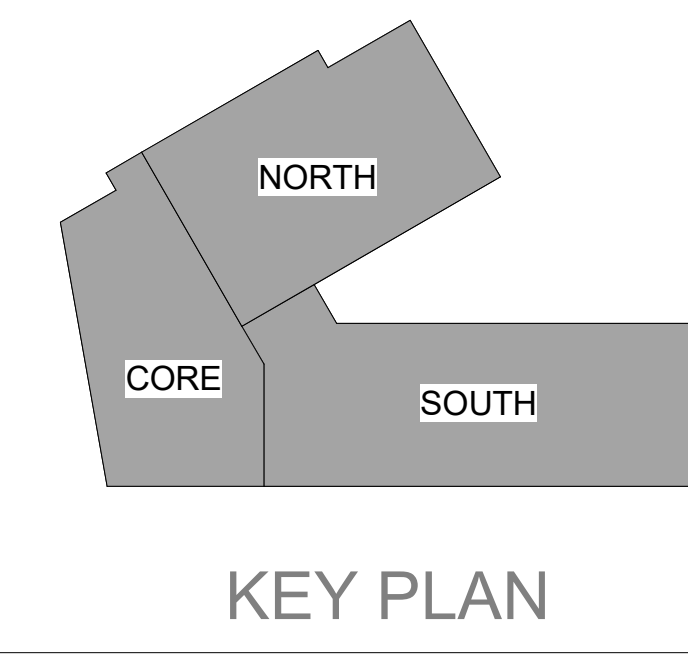
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 ART VANDELAY

Project Name:
Vortex Business Center

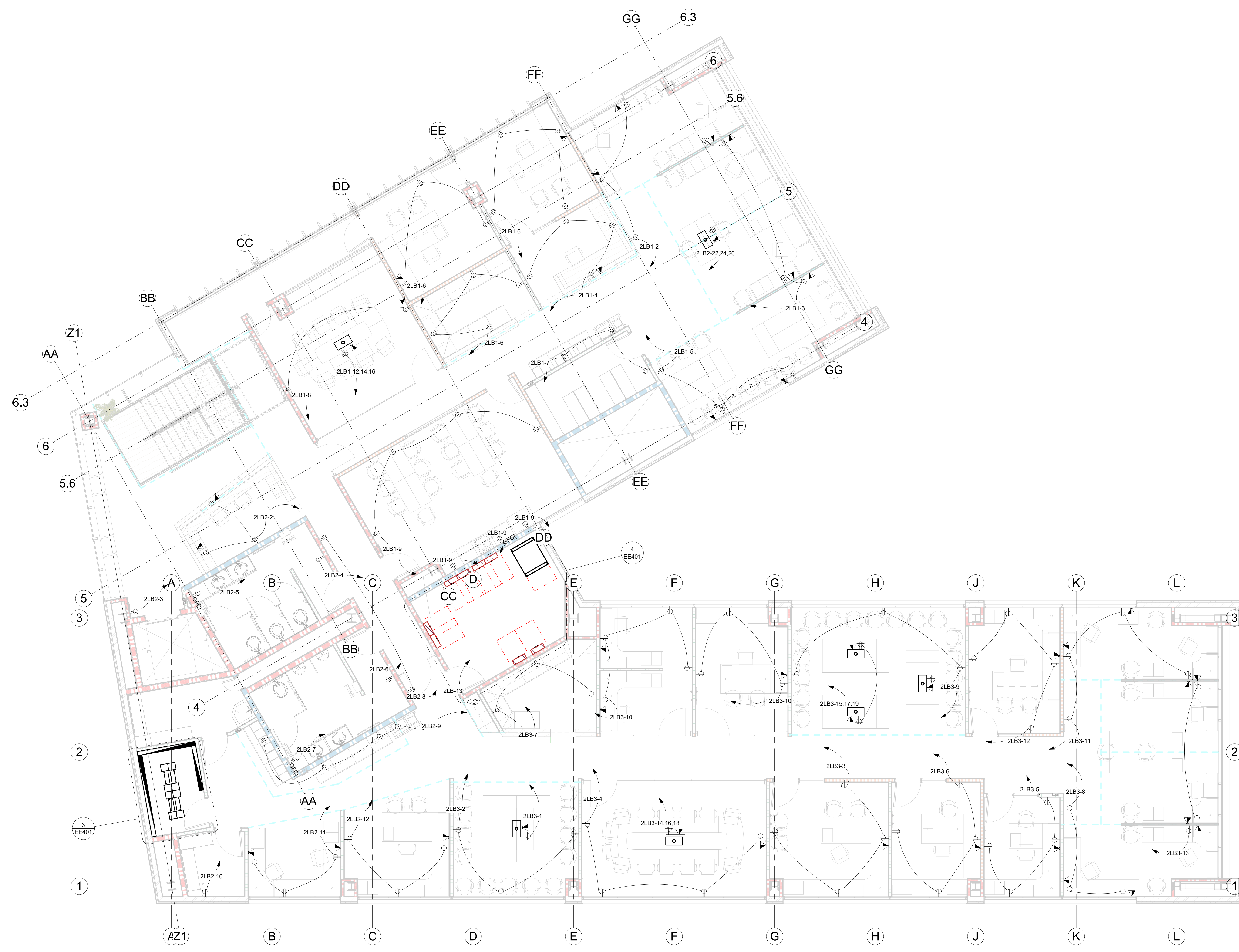
Revision Schedule		
No.	Description	Date

Sheet Name:
ELECTRICAL POWER PLAN LEVEL 01

EP101



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|------|----------------------|
| BOCT | BOTTOM OF CABLE TRAY |
| CBR | CONDUIT BEND RADIUS |
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| COCT | CENTER OF CABLE TRAY |
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 ARCHITECT

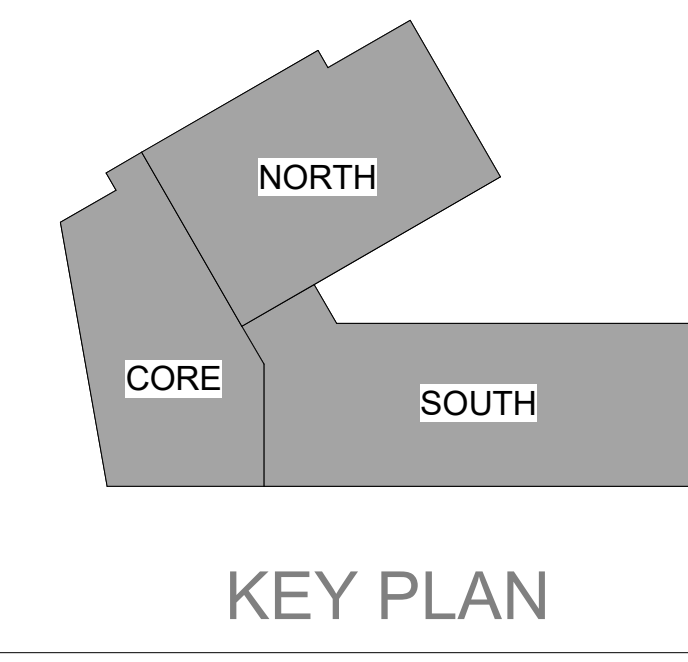
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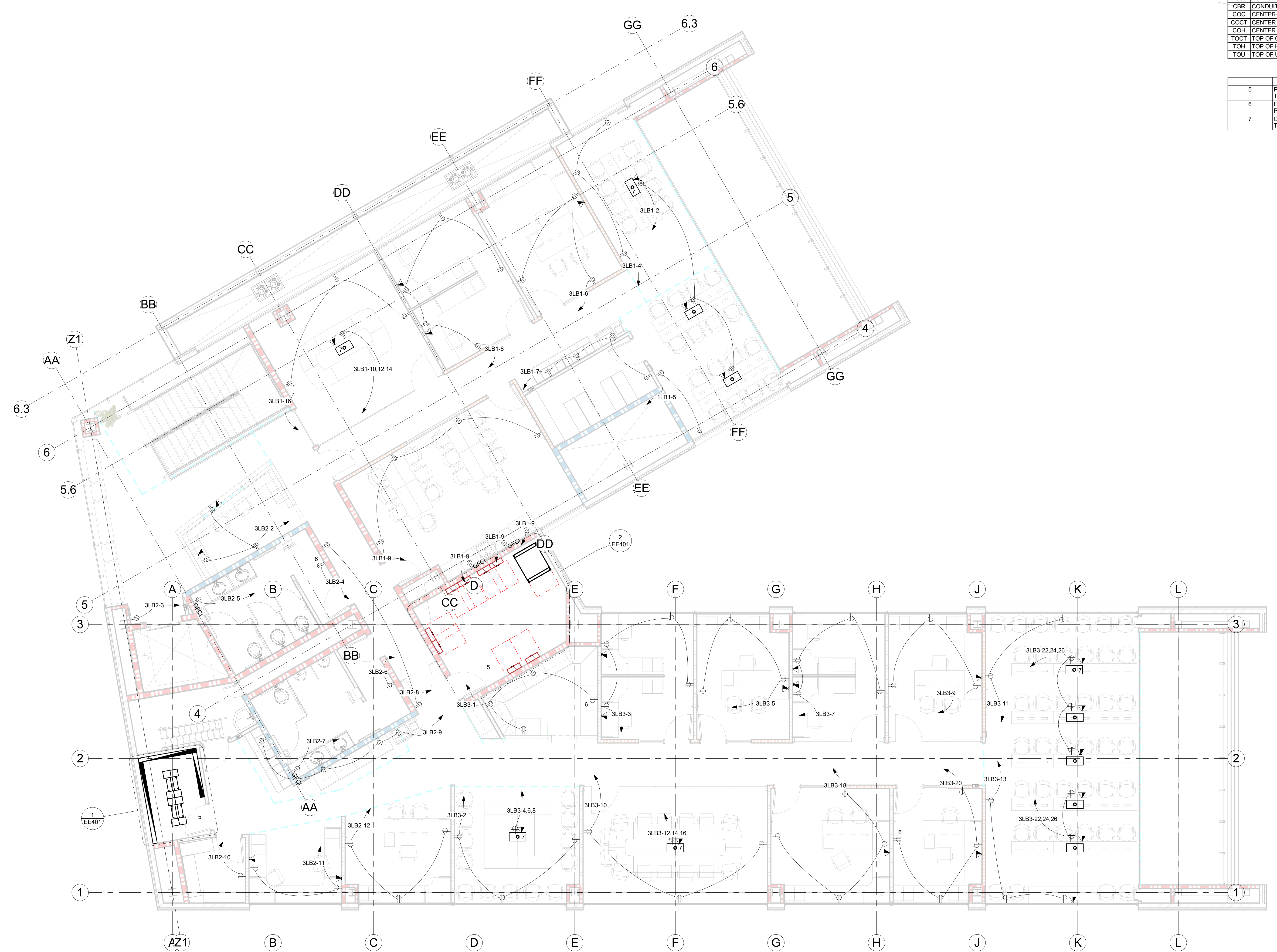
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Revision Schedule		
No.	Description	Date

Sheet Name:
ELECTRICAL POWER PLAN LEVEL 02

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 - 4 THE AHJ WILL GIVE THE FINAL APPROVAL DURING FIELD INSPECTIONS.
 - 5 NATIONAL ELECTRIC CODE (NEC) WILL BE FOLLOWED. USE MOST CURRENT CODE PER LOCAL REQUIREMENTS.
-
- | | |
|------|----------------------|
| BOCT | BOTTOM OF CABLE TRAY |
| CBR | CONDUIT BEND RADIUS |
| COC | CENTER OF CONDUIT |
| COCT | CENTER OF CABLE TRAY |
| COH | CENTER OF HANGER |
| TOCT | TOP OF CABLE TRAY |
| TOH | TOP OF HANGER |
| TOU | TOP OF UNISTRUT |

- 5 POWER NEEDED FOR MECHANICAL CONTROL WILL BE DETERMINED AT TIME OF INSTALLATION.
- 6 ELECTRICAL SUBCONTRACTOR SHALL INSTALL ALL DEVICES LEVEL, PLUMB AND VERTICAL WHEN APPLICABLE.
- 7 COORDINATE FLOOR BOX LOCATIONS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.

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 ELECTRICAL ENGINEER

Cn3D CONSTRUCTION
 CONTRACTOR

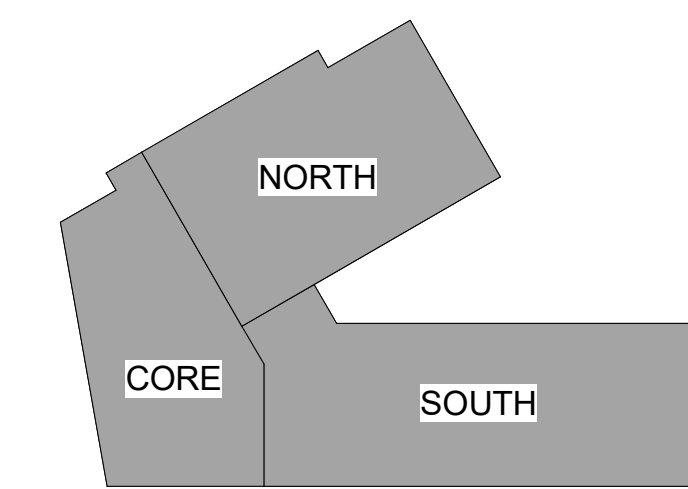
ART VANDELAY

Project Name:
Vortex Business Center

Revision Schedule		
No.	Description	Date

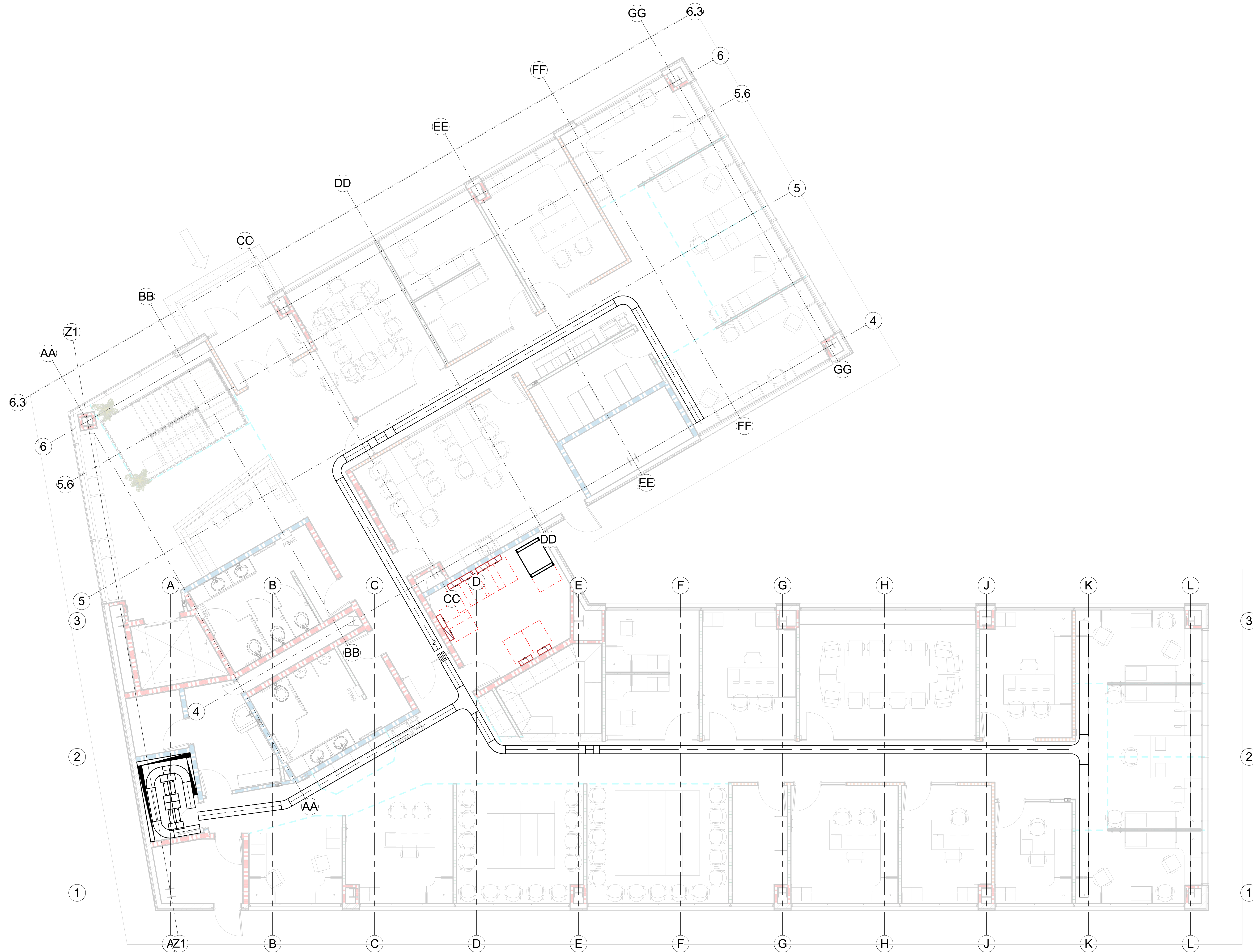
Sheet Name:
ELECTRICAL POWER PLAN LEVEL 03

EP103



KEY PLAN

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TOU	TOP OF UNISTRUT

- 2 PROVIDE ACCESS CLEARANCE TO CABLE TRAY FOR FUTURE
- 3 ROUTING OF CABLE TRAY SHALL BE ABOVE CEILING ROUGHLY 3" WITH 6" ACCESS FROM ONE SIDE.

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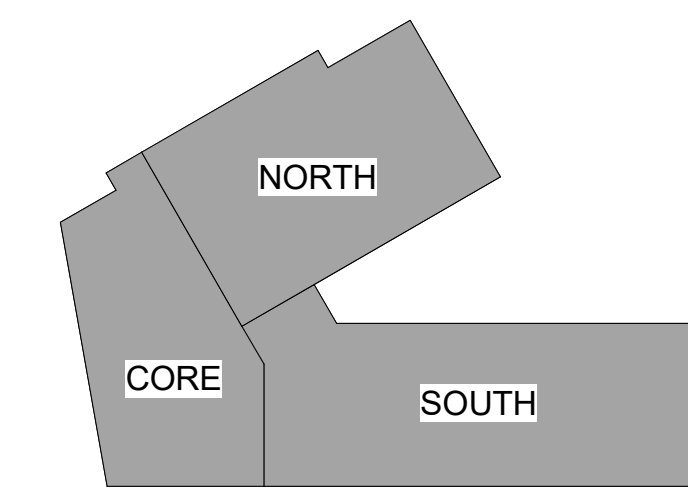
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Vortex Business Center

Revision Schedule		
No.	Description	Date

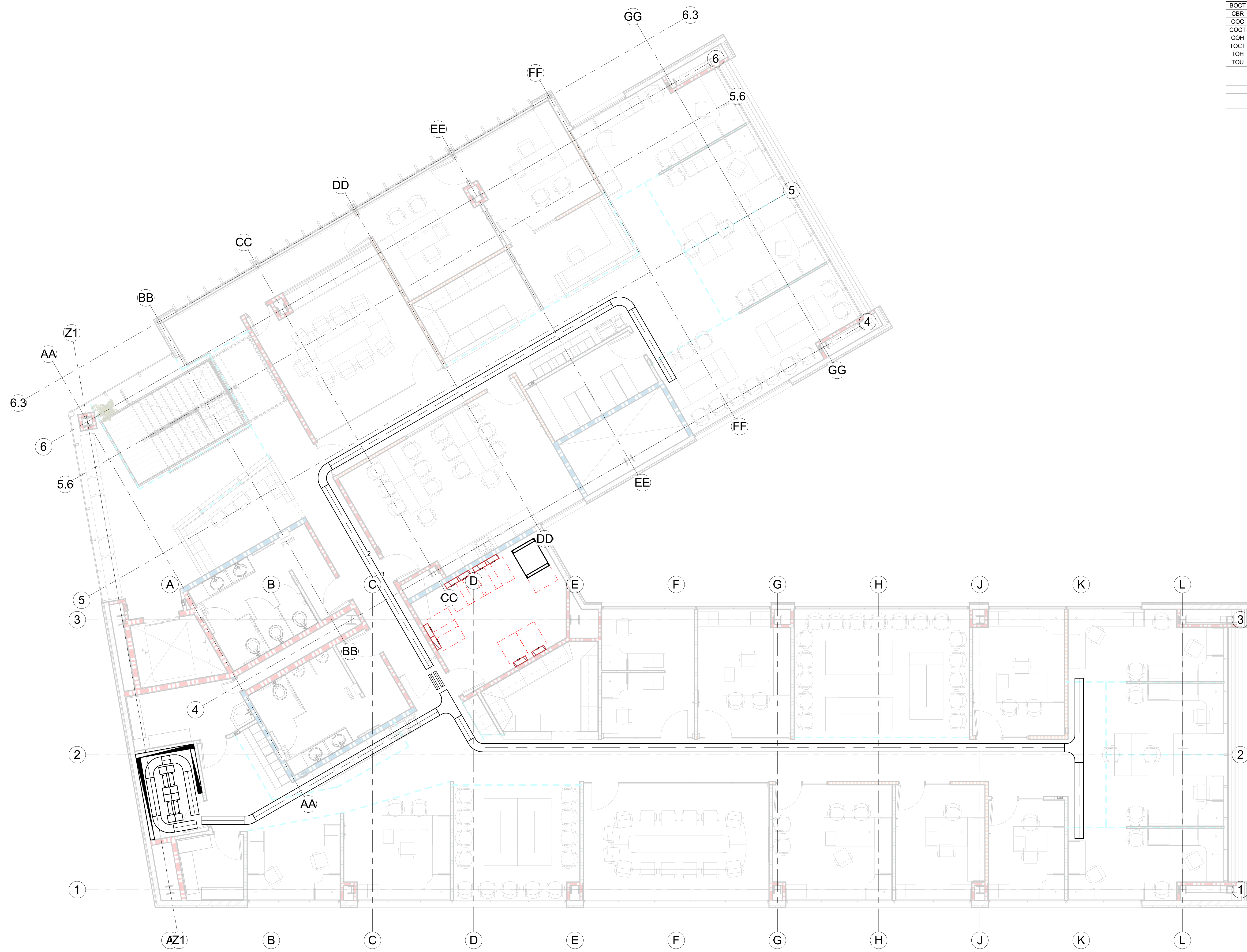
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ELECTRICAL TELECOM PLANS LEVEL 01

ET101



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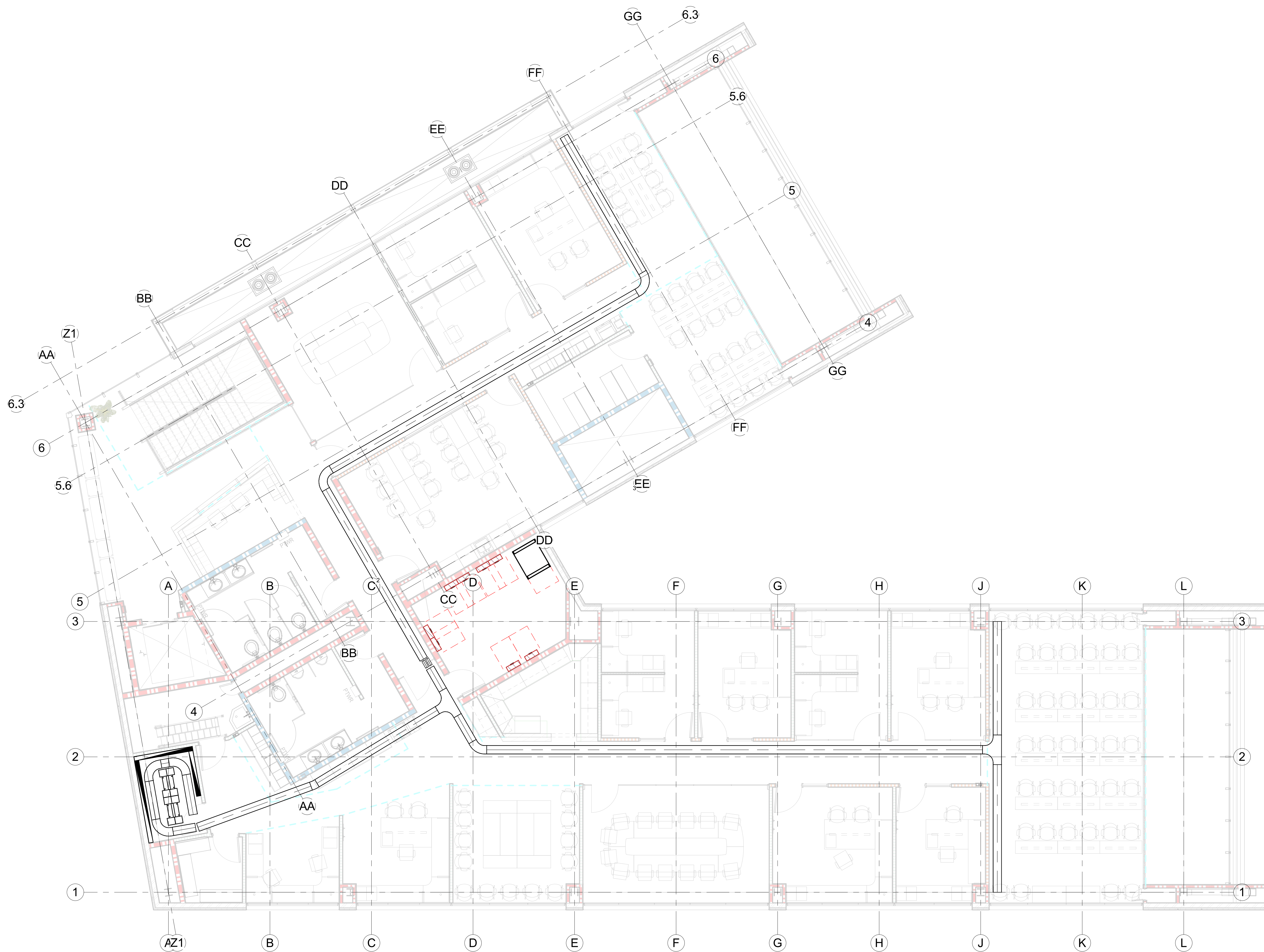
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Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
**ELECTRICAL
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 PLANS LEVEL
 02**

ET102

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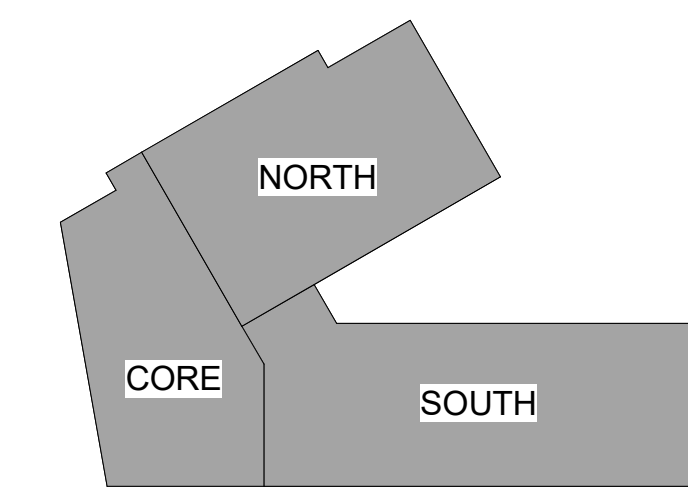
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Revision Schedule		
No.	Description	Date

Sheet Name:
**ELECTRICAL
 TELECOM
 PLANS LEVEL
 03**

ET103

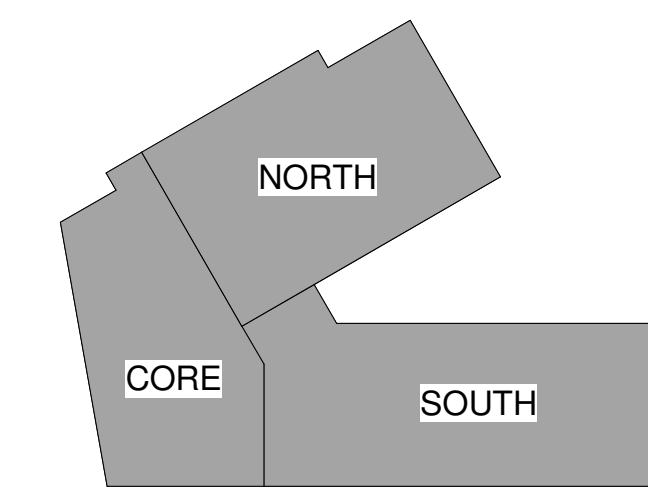


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FIRE PROTECTION PLAN LEVEL 1
 ① OVERALL
 3/16" = 1'-0"



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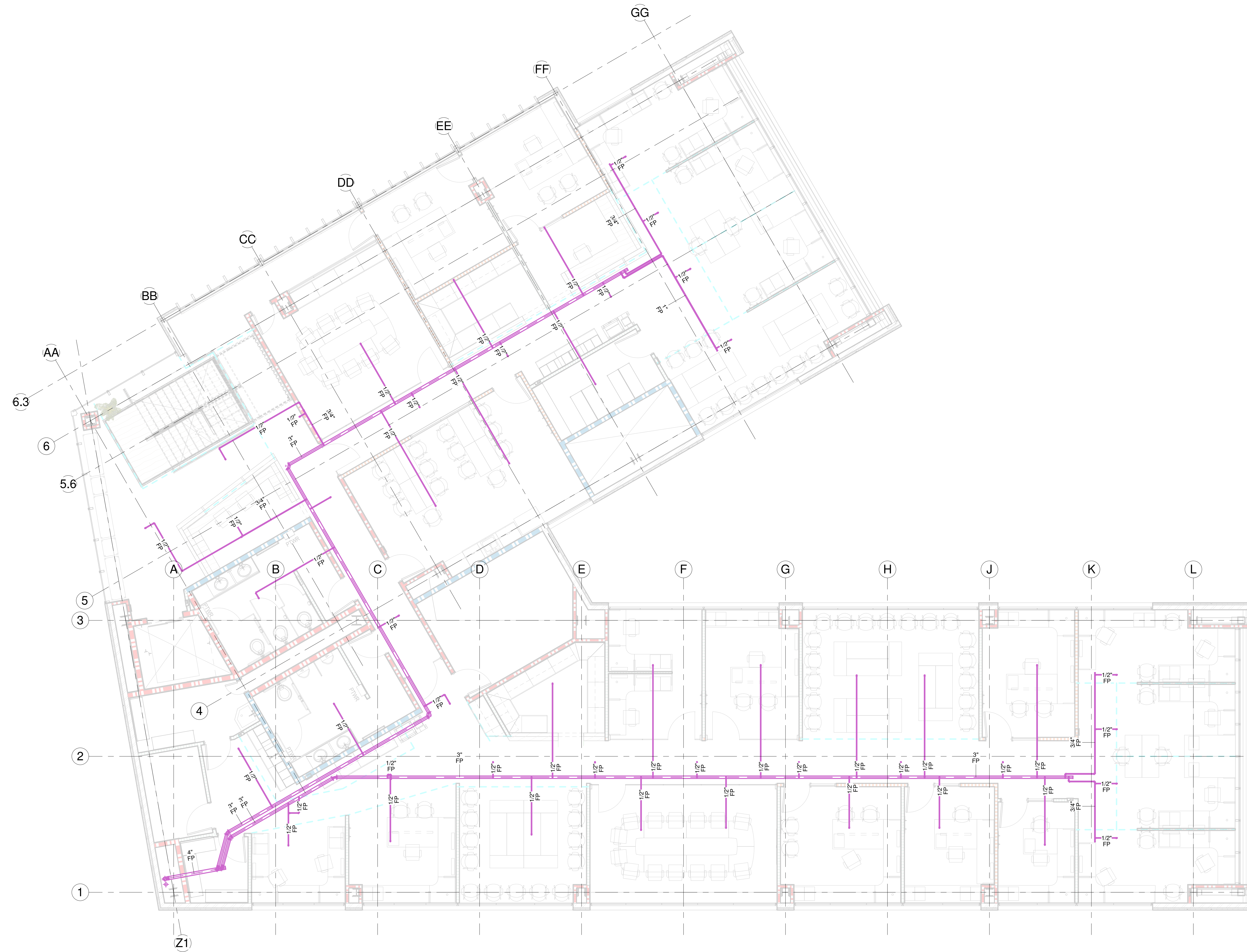
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Revision Schedule		
No.	Description	Date

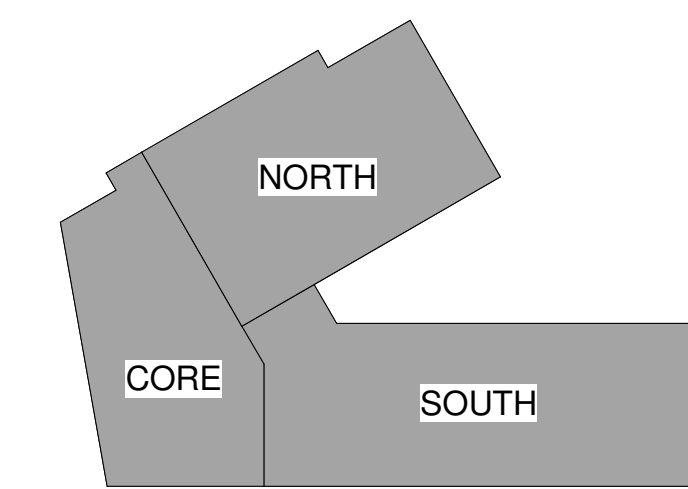
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FIRE PROTECTION PLAN LEVEL 1

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① FIRE PROTECTION PLAN LEVEL 2
OVERALL
3/16" = 1'-0"



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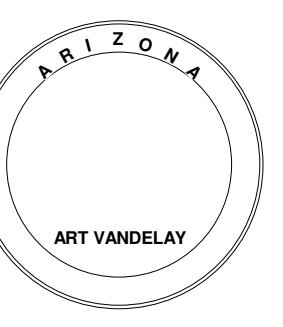
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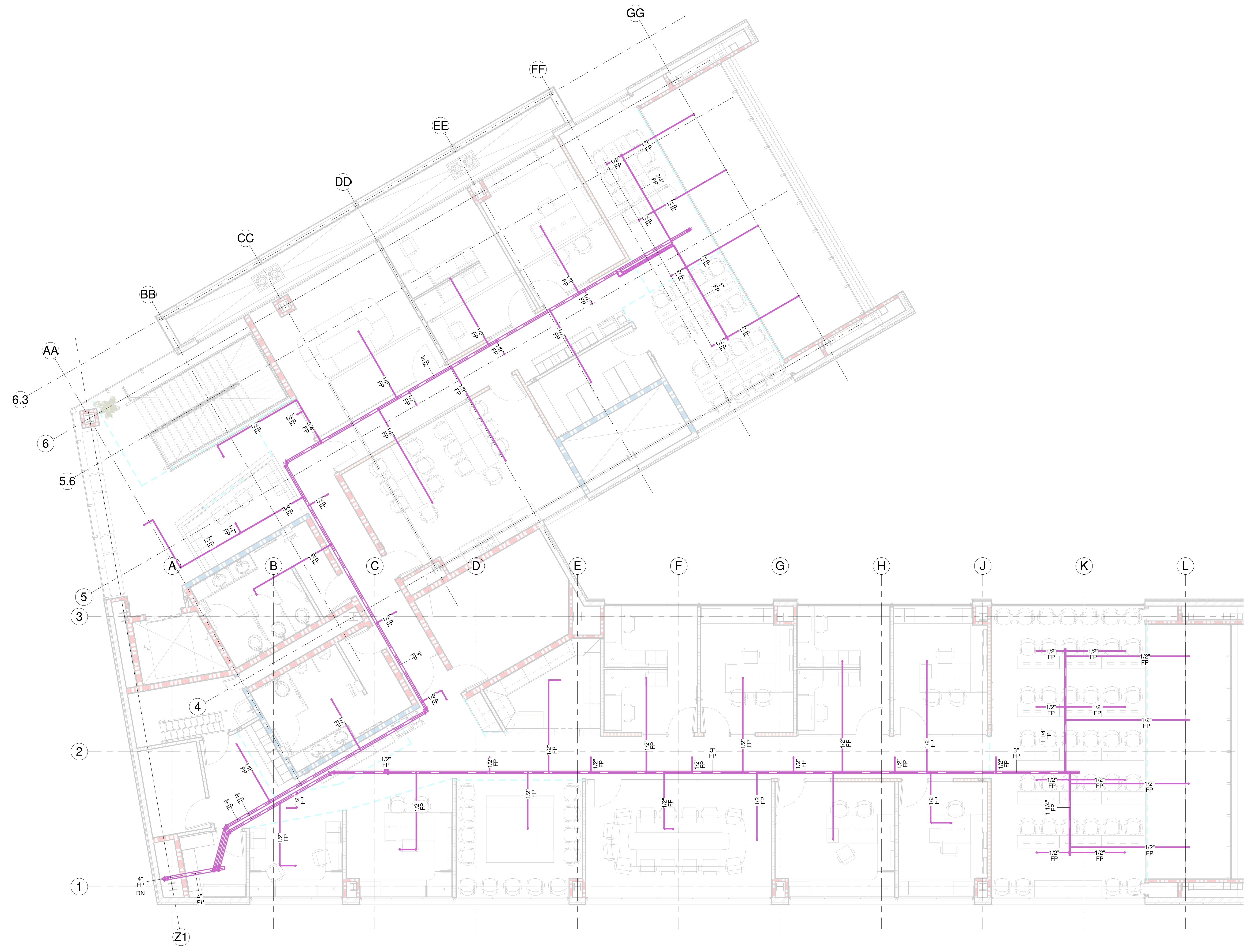
Revision Schedule

No.	Description	Date

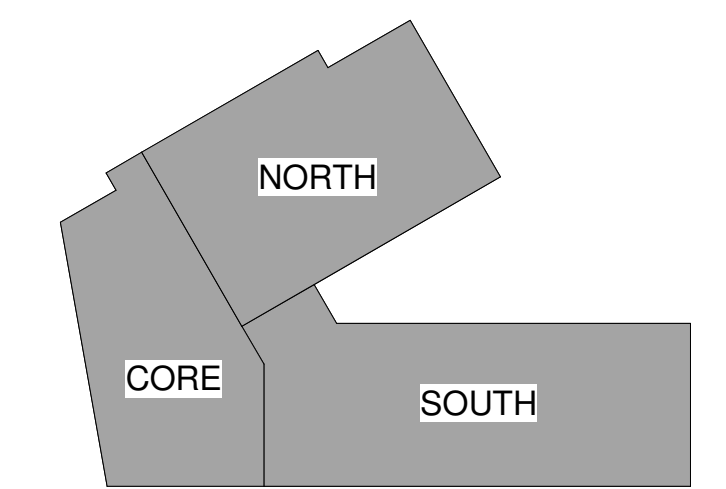
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FIRE PROTECTION PLAN LEVEL 2

FP102

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① FIRE PROTECTION PLAN LEVEL 3
OVERALL
3/16" = 1'-0"



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Vortex Business Center

Revision Schedule		
No.	Description	Date

Sheet Name:
FIRE PROTECTION PLAN LEVEL 3

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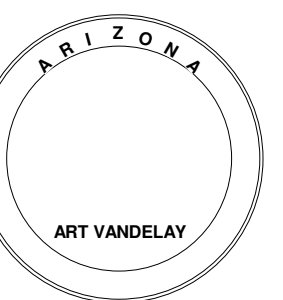
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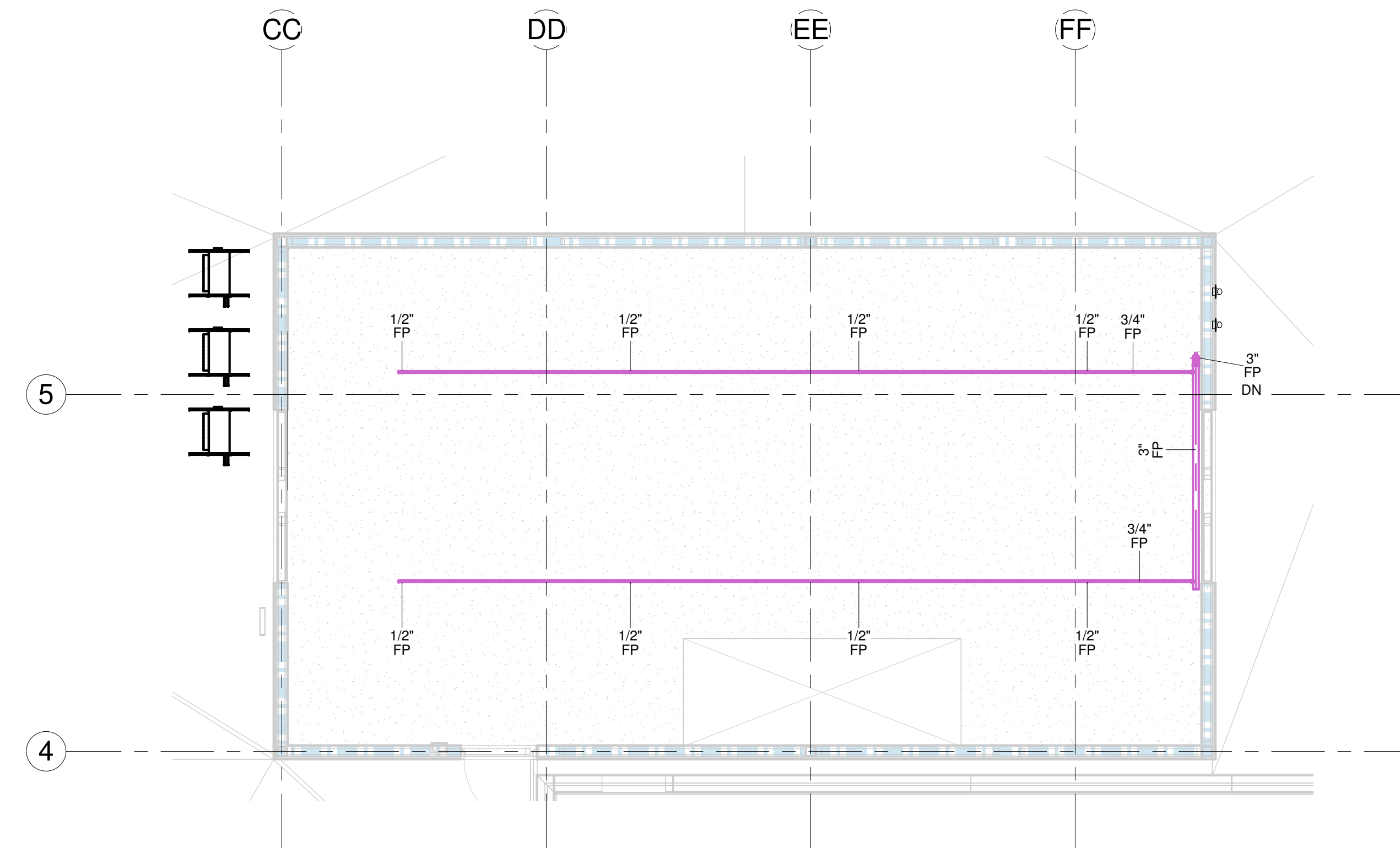
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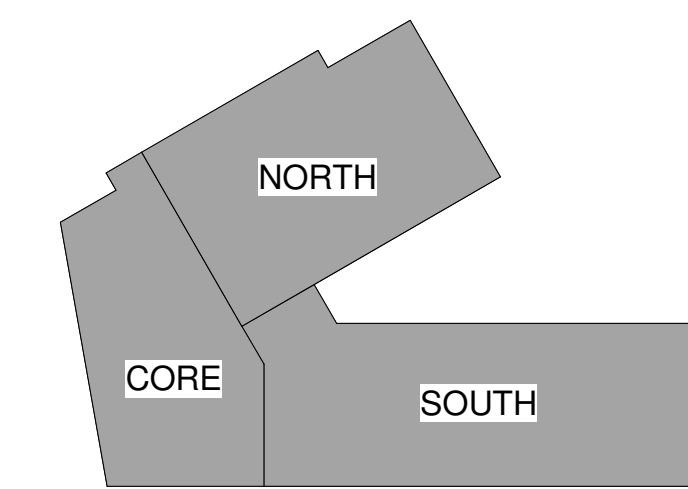


ART VANDELAY

Fire Pump Schedule								
Mech Equip Tag	Pump Type	Manufacturer	Model	Series	Motor Frame	Suction Size	Discharge Size	Maximum Working Pressure
FP-1	Base Mounted End Suction	Bell & Gossett	4 EB	e-1510	213T-S	5"	4"	175.00 psi



① FIRE PROTECTION PLAN PENTHOUSE
 3/16" = 1'-0"



KEY PLAN

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Revision Schedule		
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Sheet Name:
FIRE PROTECTION PLAN PENTHOUSE

FP104