

GENERAL NOTES

THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY, ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

DESIGN CRITERIA

Table with 5 columns: AREA, DESIGN DEAD LOAD, LIVE LOAD, PARTITION LOAD, CONCENTRATED LOADS. Row 1: MECHANICAL PLATFORM, ACTUAL, 40 PSF, +EQUIPMENT

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

LATERAL FORCES

SEISMIC: (ASCE 7-16)

Formula: Fp = (0.4 * Sps * Wp) / (Rp * Ie) * (1 + 2 * Z / h)

MINIMUM = 0.044 * Sps * Ie >= 0.01

COMPONENT IMPORTANCE FACTOR Ip = 1.5
COMPONENT RESPONSE MODIFICATION FACTOR Rp = 6
COMPONENT AMPLIFICATION FACTOR ap = 2.5
COMPONENT OPERATING WEIGHT Wp = 30k
HEIGHT OF ATTACHMENT z = 52.5ft
AVERAGE ROOF HEIGHT h = 52.5ft
DESIGN SPECTRAL RESPONSE ACCELERATIONS Sps = 1.013
Fp = 0.76Wp
HORIZONTAL FORCE, Fp = 22.8k

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPEs, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPEs OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

STEEL FABRICATORS

NON-AISC CERTIFIED STEEL FABRICATORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

STEEL ERECTORS

NON-AISC CERTIFIED STEEL ERECTORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE C (Fy = 50 KSI) ROUND - ASTM A500 GRADE C (Fy = 46 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

HIGH-STRENGTH BOLTS: ASTM F3125, GRADE F1852, UNLESS NOTED OTHERWISE, ASTM F3125, GRADE F2280 WHERE INDICATED

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHARPY V-NOTCH RATINGS AS FOLLOWS:

Table with 3 columns: WELD TYPE, FILLER METAL TENSILE STRENGTH, CHARPY V-NOTCH (CVN) RATING. Rows: FILLET (70 KSI), PARTIAL PENETRATION (70 KSI), COMPLETE PENETRATION (70 KSI, 20 FT-LBS @ 40 DEG F)

WELDED CONNECTIONS INSPECTION:

- 1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.
2. ALL FULL PENETRATION WELDS TO MEMBERS WHICH FORM A PORTION OF THE LATERAL FORCE-RESISTING SYSTEM SHALL BE CHECKED 100 PERCENT BY ULTRASONIC TESTING.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

GENERAL REQUIREMENTS

HIGH-STRENGTH BOLTS: ALL A325 HIGH-STRENGTH BOLTS (HSB) SHALL BE ASTM F3125, GRADE F1852, UNLESS OTHERWISE DESIGNATED AS A490. ALL HSB DESIGNATED AS A490 SHALL BE ASTM F3125, GRADE F2280. ALL HSB SHALL BE BY "LEJEUNE BOLT COMPANY" OR PRE-APPROVED EQUAL AND SHALL BE INSTALLED PER SECTION 8.2 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", AUGUST 2014 BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC SPECIFICATION). ALL BOLT HOLES SHALL BE STANDARD ROUND HOLES UNLESS NOTED OTHERWISE. THE FAYING SURFACES OF ALL PLIES WITHIN THE GRIP OF SLIP-CRITICAL BOLTS (A325SC OR A490SC) SHALL MEET THE REQUIREMENTS FOR A CLASS A SURFACE PER SECTION 3.2 OF THE RCSC SPECIFICATION.

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RCSC SPECIFICATION.

FINISH: WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

BAR GRATING: SHALL BE RYERSON "RY-WELD" STEEL GRATING OR PRE-APPROVED EQUAL AND DESIGNED TO OSHA STANDARDS. GRATING SHALL BE DESIGNED TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLAN. PROVIDE SHOP AND INSTALLATION DRAWINGS PRODUCED UNDER THE SUPERVISION OF AND BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. DETAIL DRAWINGS TO INDICATE TYPES, SIZE, SPACING, CONNECTIONS, ANCHORING AND OTHER PERTINENT DETAILS.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

Table with 3 columns: No., STRUCTURAL ENGR., BLDG. DEPT. Row 1: STRUCTURAL STEEL, X, X. Row 2: CONTRACTOR'S STATEMENT OF RESPONSIBILITY, X, X.

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

Table with 5 columns: STRUCTURAL SYSTEM, VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, COMMENTS, REFERENCES. Rows include STEEL CONSTRUCTION, MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS, HIGH-STRENGTH BOLTING, etc.

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

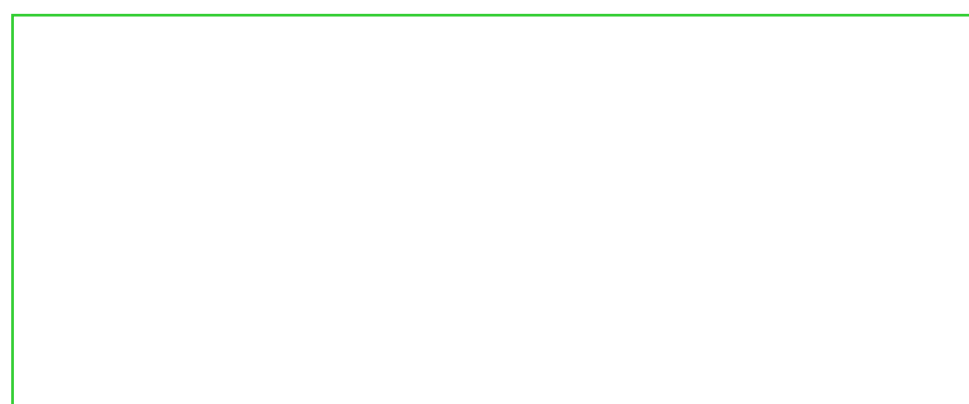
STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6.

STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
REVIEW OF TESTING AND INSPECTION REPORTS.
REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION. FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS (MIN. PLAN SIZE 24" X 36").



ABBREVIATION LIST table with 4 columns: Symbol, Description, Abbreviation, Full Name. Rows include AT, ANCHOR BOLT, HDR, HEADER, ADD'L, ADDITIONAL, HORIZ, HORIZONTAL, etc.

Authorized to Begin Construction

Construction Review Services has authorized this project to begin construction.

- See accompanying project comment form for review status and corrections.
This is not a building permit, check with your local building department.

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STRUCTURAL DRAWING INDEX table with 2 columns: SHEET NUMBER, SHEET DESCRIPTION. Rows: S0.00 GENERAL NOTES, S1.00 ROOF FRAMING PLAN AND DETAILS, Grand total: 2

B-21-0700



STAMP



PROJECT

MULTICARE - GSH CENTER WING AHU REPL
GOOD SAMARITAN HOSPITAL
401 15TH AVE SE
PUYALLUP, WA 98372

REVISION

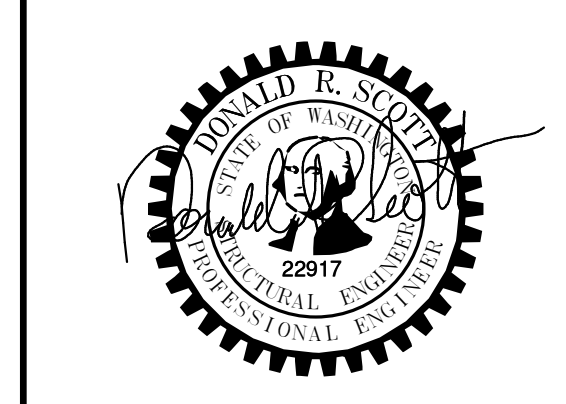
Table with 2 columns: Field, Value. Rows: DATE 08-31-21, JOB # 21-476, DRAWN RSC, CHECKED KDK, TITLE

GENERAL NOTES

SHEET

S0.00

STAMP



PROJECT

MULTICARE - GSH CENTER WING AHU REPL
GOOD SAMARITAN HOSPITAL
401 15TH AVE SE
PUYALLUP, WA 98372

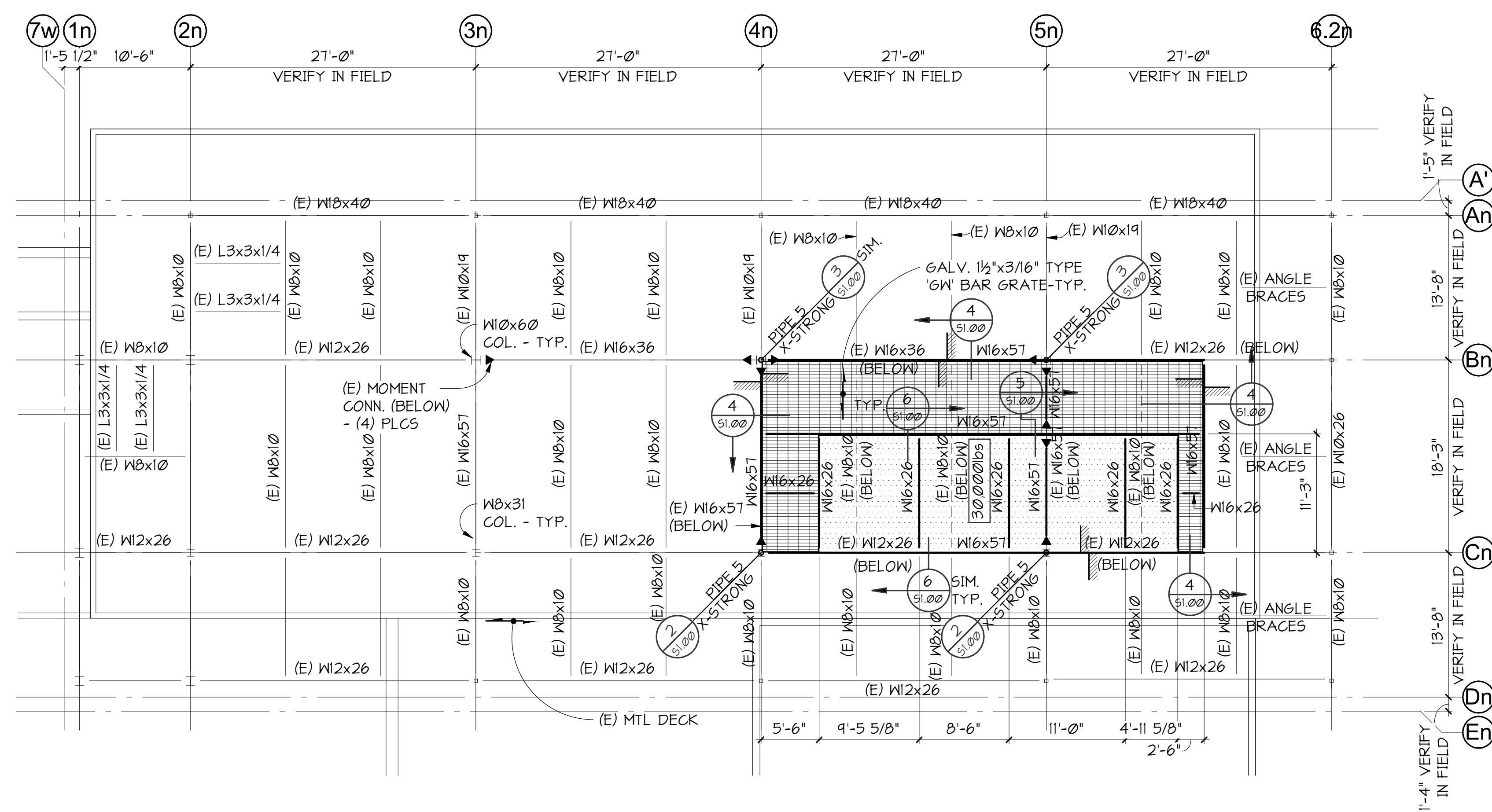
REVISION

DATE 08-31-21
JOB # 21-476
DRAWN RSC
CHECKED KDK
TITLE

ROOF FRAMING PLAN
AND DETAILS

SHEET

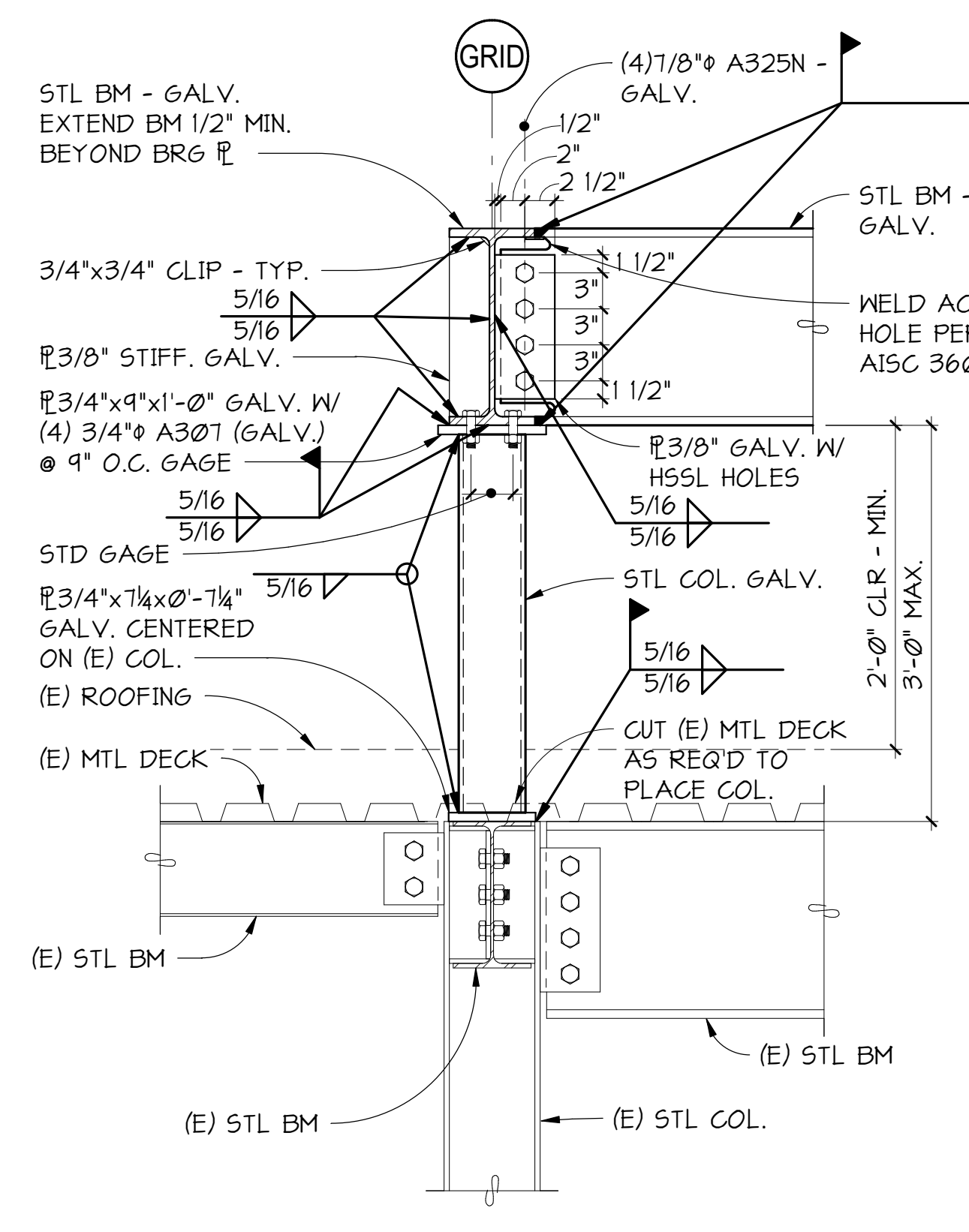
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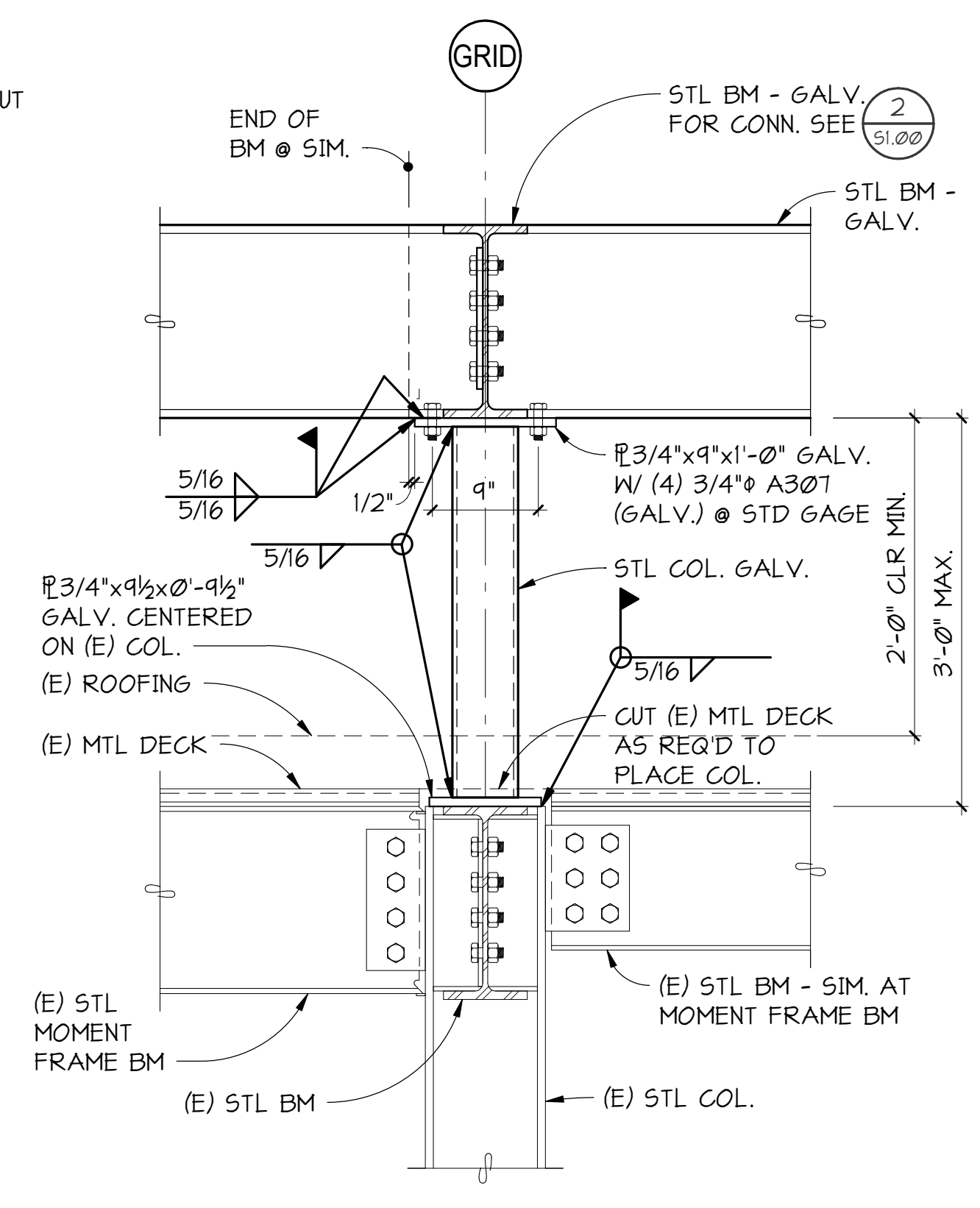
PLAN NOTES

- COORDINATE ALL DIMENSIONS WITH MECHANICAL.
- FIELD VERIFY ALL MEMBER SIZES AND DIMENSIONS PRIOR TO FABRICATION.
- ALL NEW MEMBERS AND THEIR CONNECTIONS SHALL BE GALVANIZED.
- INDICATES MOMENT CONNECTION.
- INDICATES MECHANICAL UNIT ON NEW ELEVATED DECK WITH MAXIMUM WEIGHT SHOWN.
- COORDINATE ATTACHMENT OF MECHANICAL UNIT TO PLATFORM STRUCTURE WITH MANUFACTURER.
- INDICATES DIRECTION OF SPAN FOR METAL DECK.
- INDICATES COLUMN POSTING DOWN TO EXISTING ROOF STRUCTURE.

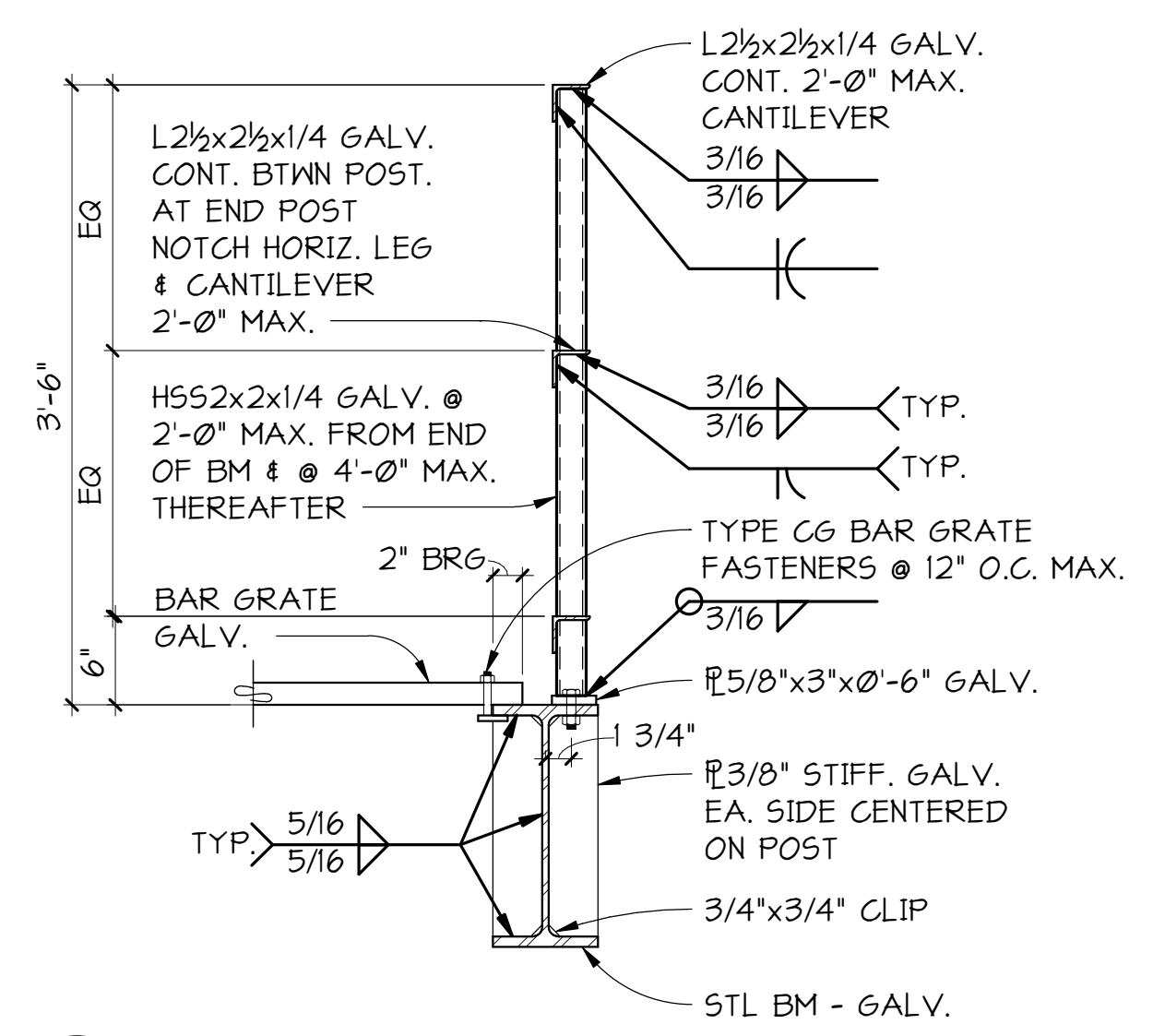
1 ROOF FRAMING PLAN
1/8" = 1'-0"



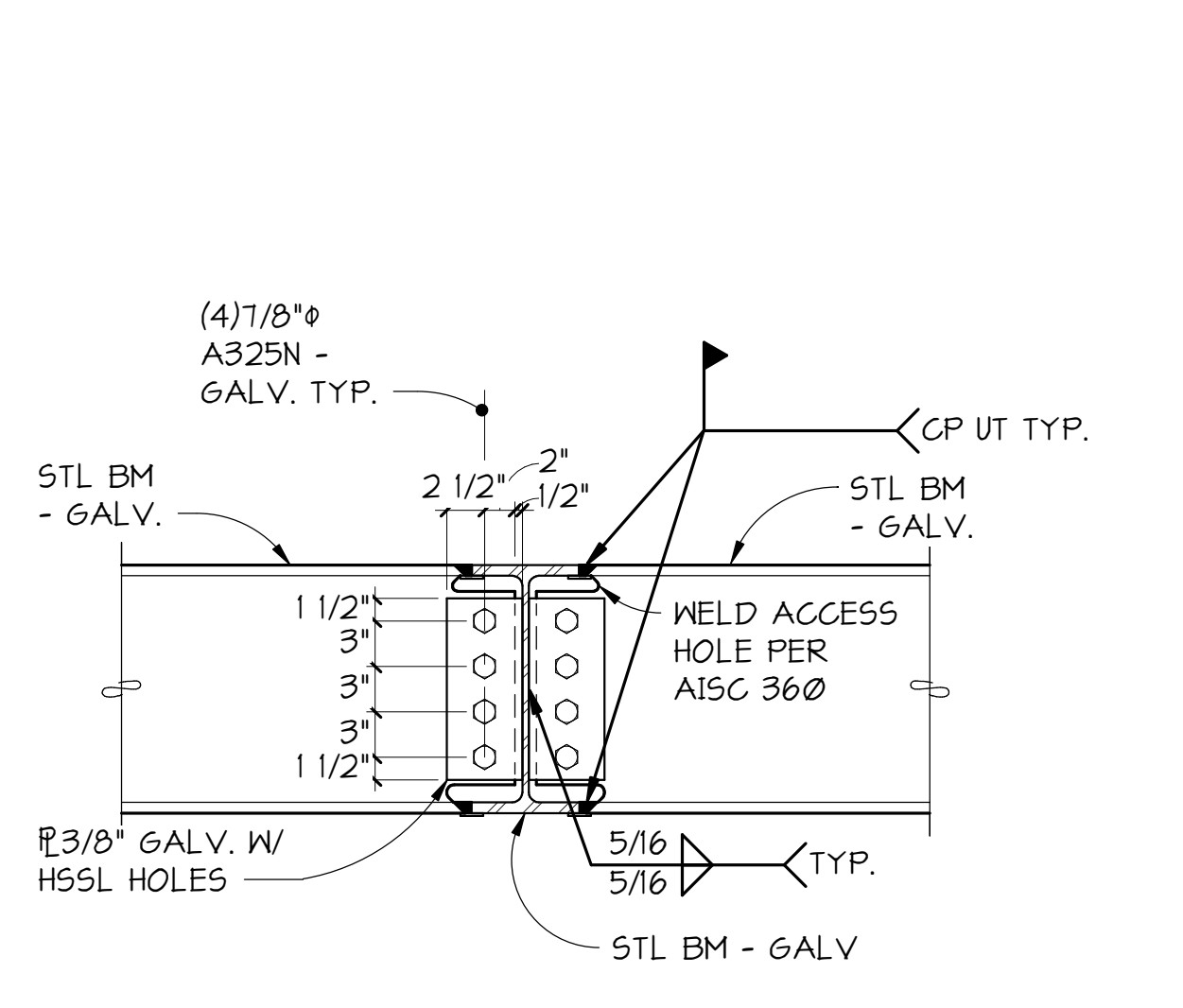
2 SECTION
1" = 1'-0"



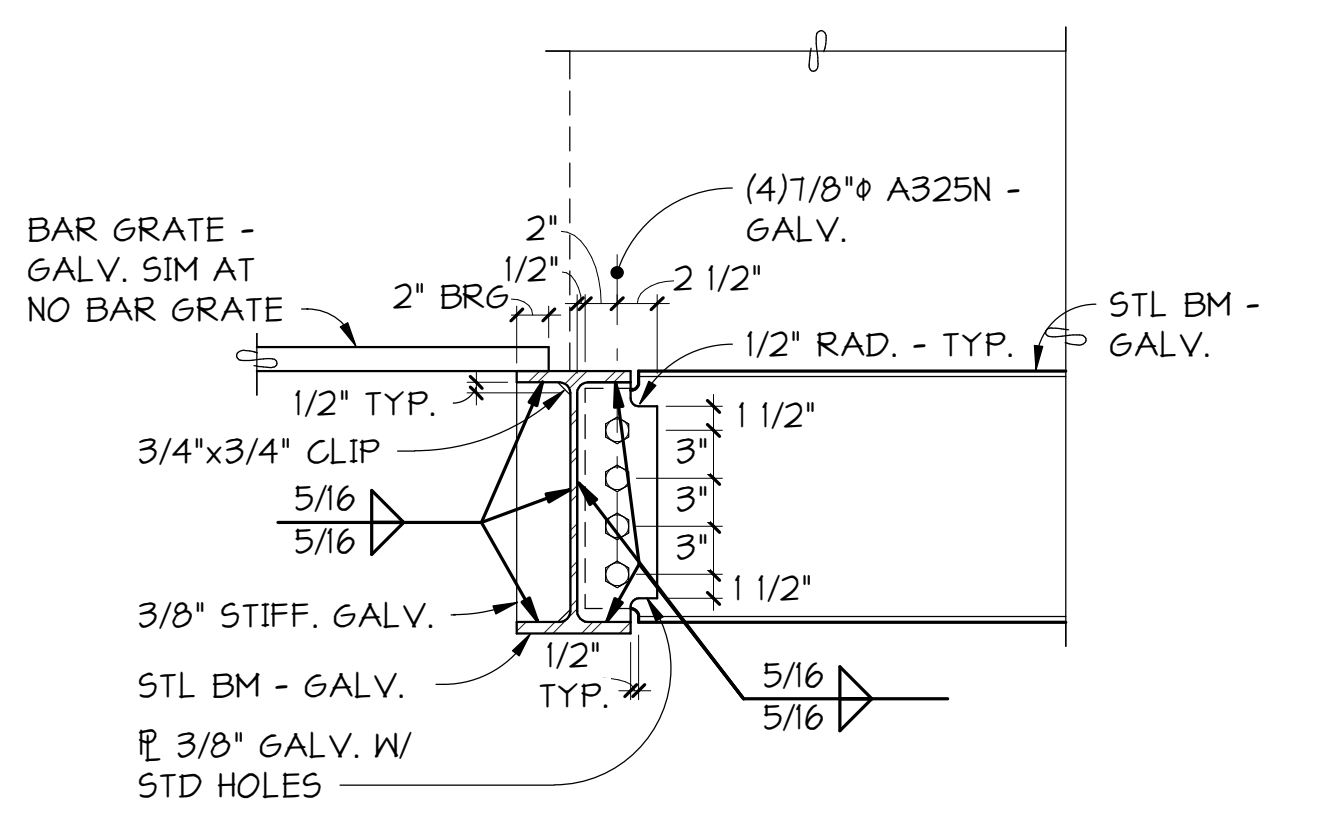
3 SECTION
1" = 1'-0"



4 SECTION
1" = 1'-0"



5 SECTION
1" = 1'-0"



6 SECTION
1" = 1'-0"

B-21-0700

C:_Revit Models\21476 MHS Good Sam North Wing AHU Installation V2017 (Central)_scowessert@pcs-structural.com.rvt 8/31/2021 3:15:22 PM

MECHANICAL GENERAL ABBREVIATIONS table with columns: ABBV, FULL NAME, ABBV, FULL NAME, ABBV, FULL NAME. Lists abbreviations for air conditioning units, ductwork, and various mechanical components.

HVAC SYSTEM ABBREVIATIONS table with columns: ABBV, FULL NAME, ABBV, FULL NAME, ABBV, FULL NAME. Lists abbreviations for ductwork, coils, and air handling units.

PIPING SYSTEM ABBREVIATIONS table with columns: ABBV, FULL NAME, ABBV, FULL NAME, ABBV, FULL NAME. Lists abbreviations for various piping systems including hot water, chilled water, and steam.

PIPING SYMBOL LEGEND table with columns: SYMBOL, DESCRIPTION, ABBV, SYMBOL, DESCRIPTION, ABBV. Provides symbols for valves, fittings, and piping components.

HVAC SYMBOL LEGEND table with columns: DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL. Provides symbols for sheet metal, ductwork, and sensors.

PIPING GENERAL NOTES table with columns: PIPING, SIZE, MATERIAL, JOINT. Lists notes for heating hot water, chilled water, and heat recovery piping.

PIPING INSULATION SCHEDULE table with columns: PIPING TYPE, PIPE SIZE, INSULATION TYPE, INSULATION THICKNESS, CONDUCTIVITY RANGE. Lists insulation requirements for various piping types.

- List of notes for piping insulation, including requirements for fire-rated walls, floor penetrations, and hangers.

- Notes for piping installation, including requirements for slope, hangers, and supports.

- Notes for piping materials, including requirements for fire-rated walls and floor penetrations.

- Notes for piping slope, including requirements for indirect drains.

- Notes for piping hangers and supports, including requirements for seismic bracing.

- Notes for piping penetrations, including requirements for fire-rated walls and floor penetrations.

- Notes for piping heat tracing, including requirements for electrical supply.

- Notes for piping connections, including requirements for flexible connections.

- Notes for piping air break, including requirements for air break devices.

- Notes for piping electrical connections, including requirements for dielectric connections.

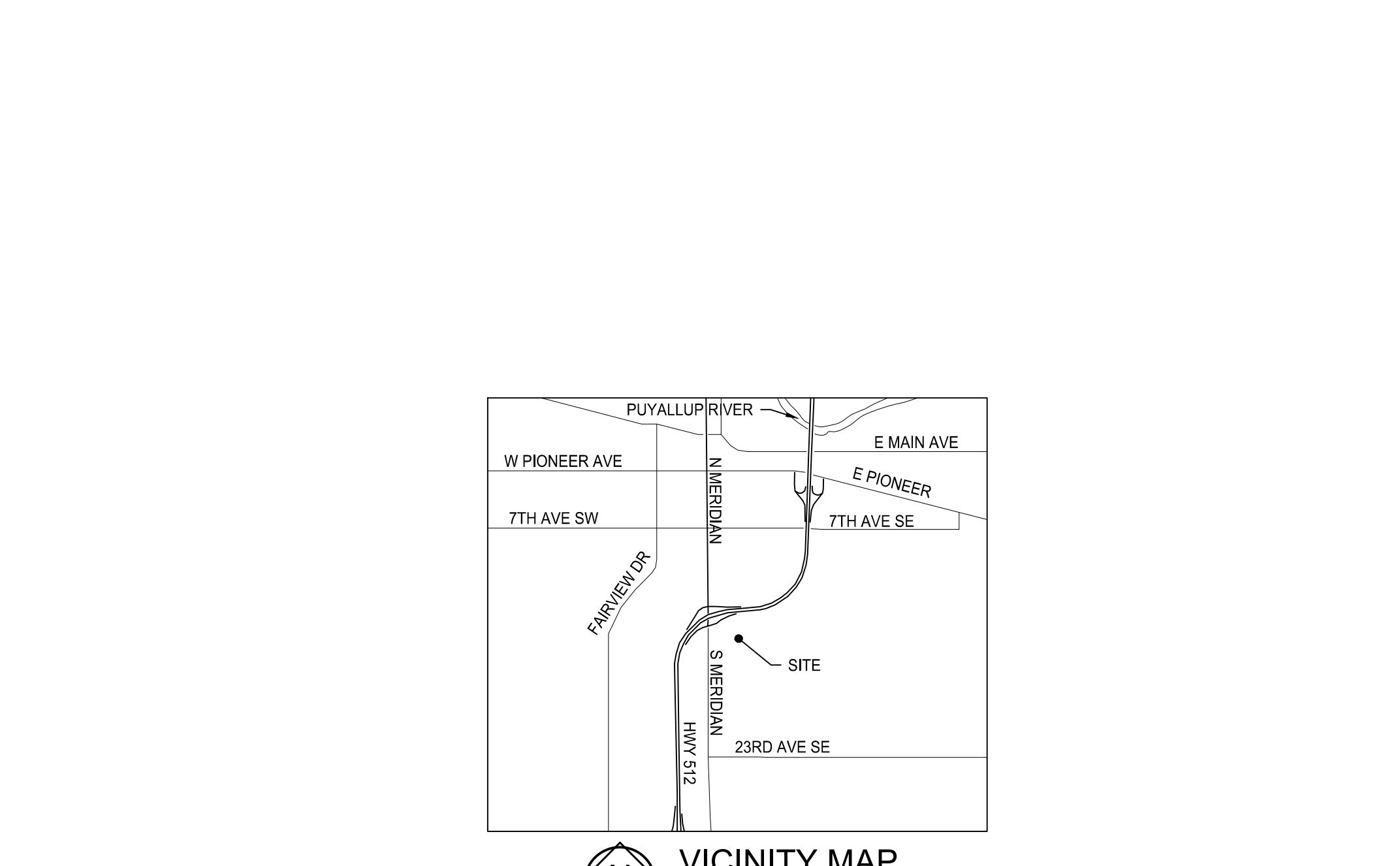
- Notes for piping heat tracing, including requirements for electrical supply.

- HVAC GENERAL NOTES - 2018 WA STATE. A series of 20 numbered notes detailing requirements for HVAC systems, including ductwork, insulation, and equipment.

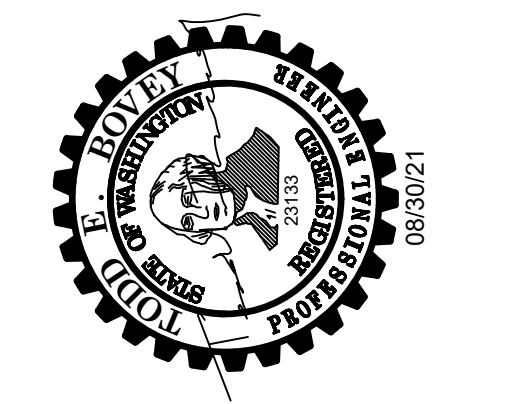
LEGAL DESCRIPTION table with columns: PARCEL NUMBER, LEGAL DESCRIPTION. Provides legal details for the project site.

SCOPE OF WORK table with columns: SCOPE OF WORK. Details the work to be performed, including AHU replacement and ductwork installation.

DRAWING SHEET INDEX - FITTING table with columns: NUMBER, TITLE. Lists the drawing sheets and their titles.



MacDonald-Miller FACILITY SOLUTIONS logo and contact information.



REVISIONS table with columns: NO., DATE, REVISIONS. Lists the revision history for the drawing.

ISSUED FOR PERMIT. A vertical stamp indicating the drawing is ready for permit submission.

MULTICARE - GSH CENTER WING AHU REPLACEMENT GOOD SAMARITAN HOSPITAL. Project title and location information.

PROJECT INFORMATION. Includes drawing number (D-4044-7712214-00), sheet number (TM0.01), and other project details.

AIR HANDLING UNIT SCHEDULE																																														
UNIT NO	AREA SERVED	MFG & MODEL	LOCATION	WEIGHT (LBS)	DIMENSIONS			SUPPLY FAN				CHILLED WATER COOLING COIL					HOT WATER PREHEAT COIL					HOT WATER REHEAT COIL					PRE-FILTERS			FINAL FILTERS			ELECTRICAL			SOUND POWER (LWA)	NOTES									
					L (IN)	W (IN)	H (IN)	AIRFLOW (CFM)	TSP (IN)	ESP (IN)	QTY (HP)	CAPACITY TOTAL/SENS (MBH)	EAT DBWB (°F)	LAT DBWB (°F)	EWI (°F)	LWT (°F)	GPM	WATER AP (FT) MAX	CAPACITY (MBH)	EAT (°F)	LAT (°F)	EWI (°F)	LWT (°F)	GPM	WATER AP (FT) MAX	CAPACITY (MBH)	EAT (°F)	LAT (°F)	EWI (°F)	LWT (°F)	GPM	WATER AP (FT) MAX	TYPE	SIZE	QTY			TYPE	SIZE	QTY	VPH	MCA	MOP	SCCR		
CWSF-1	CENTER-WING	CLIMATE CRAFT	ROOF	30000	407	135	135	35000	6.96	4.3	4 (2S)	18351432	89 / 68	51.1 / 50.5	42	56	280	14	1172	10	41	52	42	246	5.6	2288	16	75	120	100	200	7	MERV 8	24x26x4	24x26x4	21	MERV 14	24x26x2	24x26x2	19	4803	144.5	175	100K	95	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16

- NOTES:
- REPLACE EXISTING CWSF-1, OPERATES CONTINUOUSLY 24/7
 - FAN MATRIX DIRECT DRIVE SUPPLY FANS WITH PREMIUM EFFICIENT TEFC MOTORS AND INDEPENDENT VFDs (ONE VFD PER FAN MOTOR), FANS WITH 7" SPRING ISOLATION.
 - FULLY REDUNDANT SUPPLY FAN MATRIX WITH BALANCE AIRSTREAM, SUPPLY FANS SIZED TO PROVIDE MAXIMUM AIRFLOW WITH ONE FAN FAILED AND FULLY LOADED FILTERS AT 35,000 CFM.
 - NEMA 3R ENCLOSURE FOR VFDs AND UNIT DISCONNECT SWITCH.
 - AIRFLOW METERING STATION ON SUPPLY AIR DISCHARGE.
 - DOUBLE WALL CONSTRUCTION WITH 2" FOAM INSULATION IN WALLS AND CEILING.
 - SEPARATE 120V/1PH POWER FEED FOR LIGHTS AND GFI OUTLET. POWER WIRING BY ELECTRICAL CONTRACTOR.
 - INDEPENDENT MAGNETIC GAUGE FOR PRE-FILTER AND FINAL FILTER.
 - CONTROLS PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.
 - FACTORY CLEAN INSIDE OF AHU AND SHRINK WRAPPED FOR HEALTH CARE INSTALLATION.
 - FIRE ALARM CONTRACTOR TO INTERLOCK UNIT WITH EXISTING SMOKE DETECTION SYSTEM TO AUTOMATICALLY SHUTDOWN UNIT.
 - UV LIGHTS PROVIDED AND INSTALLED DOWNSTREAM OF COOLING COILS.
 - 304 STAINLESS STEEL DRAIN PAN PROVIDED IN COOLING COIL SECTION.
 - FACTORY PROVIDED RAIN HOODS FOR OUTSIDE AIR OPENINGS.
 - FACTORY PROVIDED MATRIX MONITOR FAN AIRFLOW SYSTEM.
 - POWER WIRING BY ELECTRICAL CONTRACTOR. FACTORY INSTALLED NON-FUSED DISCONNECT SWITCH.

PUMP SCHEDULE															
UNIT NO.	UNIT SERVED	MFG & MODEL NO.	TYPE	GPM DUTY	GPM MIN	TDH (FT)	IMP DIA IN	SUCTION (IN)	DISCHARGE (IN)	HP	VFD	RPM	VOLT/PH	WT LBS	NOTES
CRCP-1	PRE HEATING WATER	BELLAGOSSETT E-80 3x3x3 SC	INLINE	250	60	60	8.75	3	3	7.5	YES	1800	4603	200	1,2,3,4,5,6
CRCP-2	PRE HEATING WATER	BELLAGOSSETT E-80 3x3x3 SC	INLINE	250	60	60	8.75	3	3	7.5	YES	1800	4603	200	1,2,3,4,5,6
CHLP-1	HEATING WATER	BELLAGOSSETT E-80 3x3x3 SC	INLINE	200	50	50	7.625	3	3	7.5	YES	1800	4603	200	1,2,3,4,5,6
CHLP-2	HEATING WATER	BELLAGOSSETT E-80 3x3x3 SC	INLINE	200	50	50	7.625	3	3	7.5	YES	1800	4603	200	1,2,3,4,5,6
COLP-1	CHILLED WATER	BELLAGOSSETT E-80 3x3x3 SC	INLINE	260	60	50	8	3	3	7.5	YES	1800	4603	200	1,2,3,4,5,6
COLP-2	CHILLED WATER	BELLAGOSSETT E-80 3x3x3 SC	INLINE	260	60	50	8	3	3	7.5	YES	1800	4603	200	1,2,3,4,5,6

- NOTES:
- ELECTRICAL CONTRACTOR TO PROVIDE MOTOR STARTER AND DISCONNECT
 - WITH 125 # FLANGES & NET TAPS AT EACH FLANGE
 - WITH VFD AND SHAFI GROUNDING RING.
 - 125 PSI MAX. WORKING PRESSURE
 - NORMAL AND EMERGENCY POWER
 - VFD SHALL BE ABB

MULTICARE - GSH CENTER WING AHU REPLACEMENT
 GOOD SAMARITAN HOSPITAL
 401 15TH AVE SE
 PUYALLUP, WA 98372

SCHEDULES

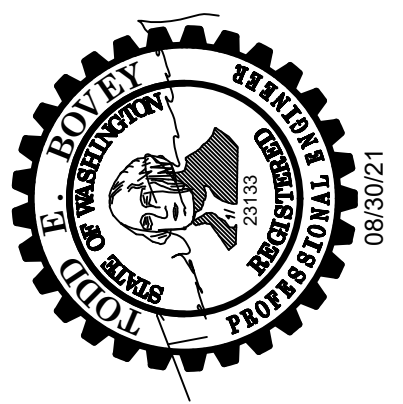
ISSUED FOR PERMIT

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D VU
 CHECKED BY:
T BOVEY
 CAD:
D VU
 DRAWING NUMBER:
D-4044-77212214-00
 SHEET NUMBER:

LAST REVISED:
07-28-21
 DATE PLOTTED:
07-28-21
 ISSUE DATE:

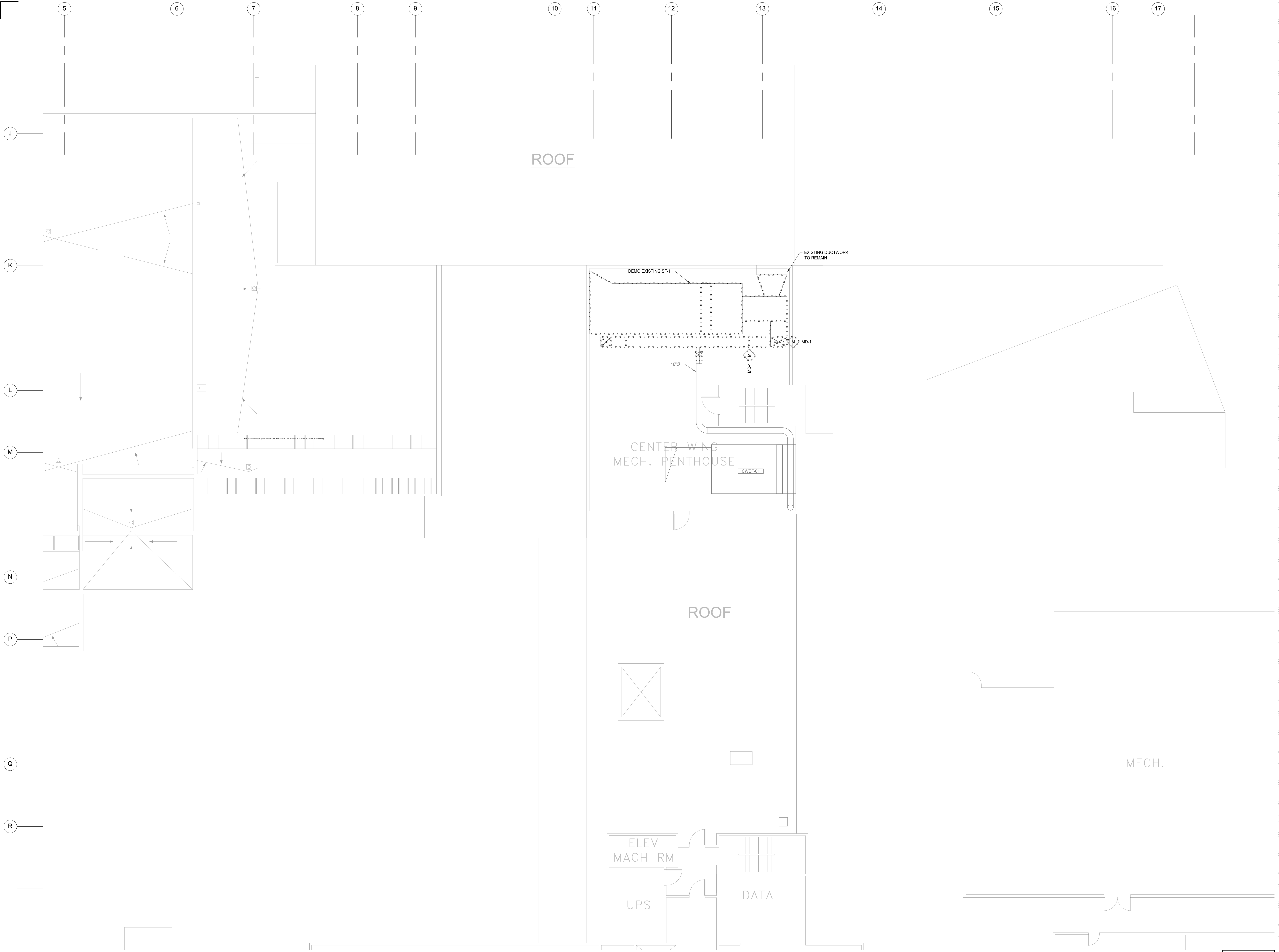
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REVISIONS:
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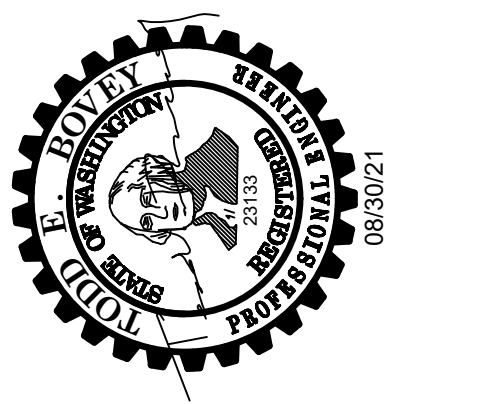


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 WA Lic No: MACDOF5960RU



REVISIONS	DATE	DATE
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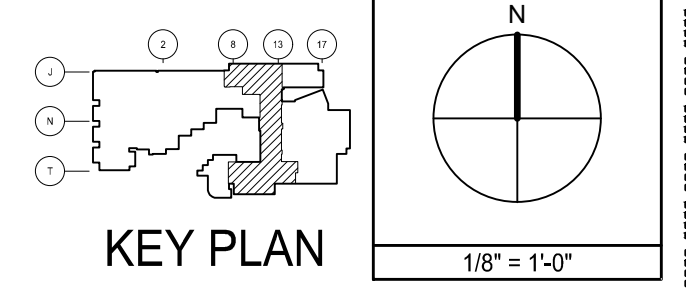
MULTICARE - GSH CENTER WING AHU REPLACEMENT
GOOD SAMARITAN HOSPITAL
 401 15TH AVE SE
 PUYALLUP, WA 98372

CENTER WING - MECHANICAL PENTHOUSE DEMO PLAN
HVAC
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ENGINEER: D VU
 CHECKED BY: T BOVEY
 CAD: D VU
 DRAWING NUMBER: D-4044-77212214-00
 SHEET NUMBER:

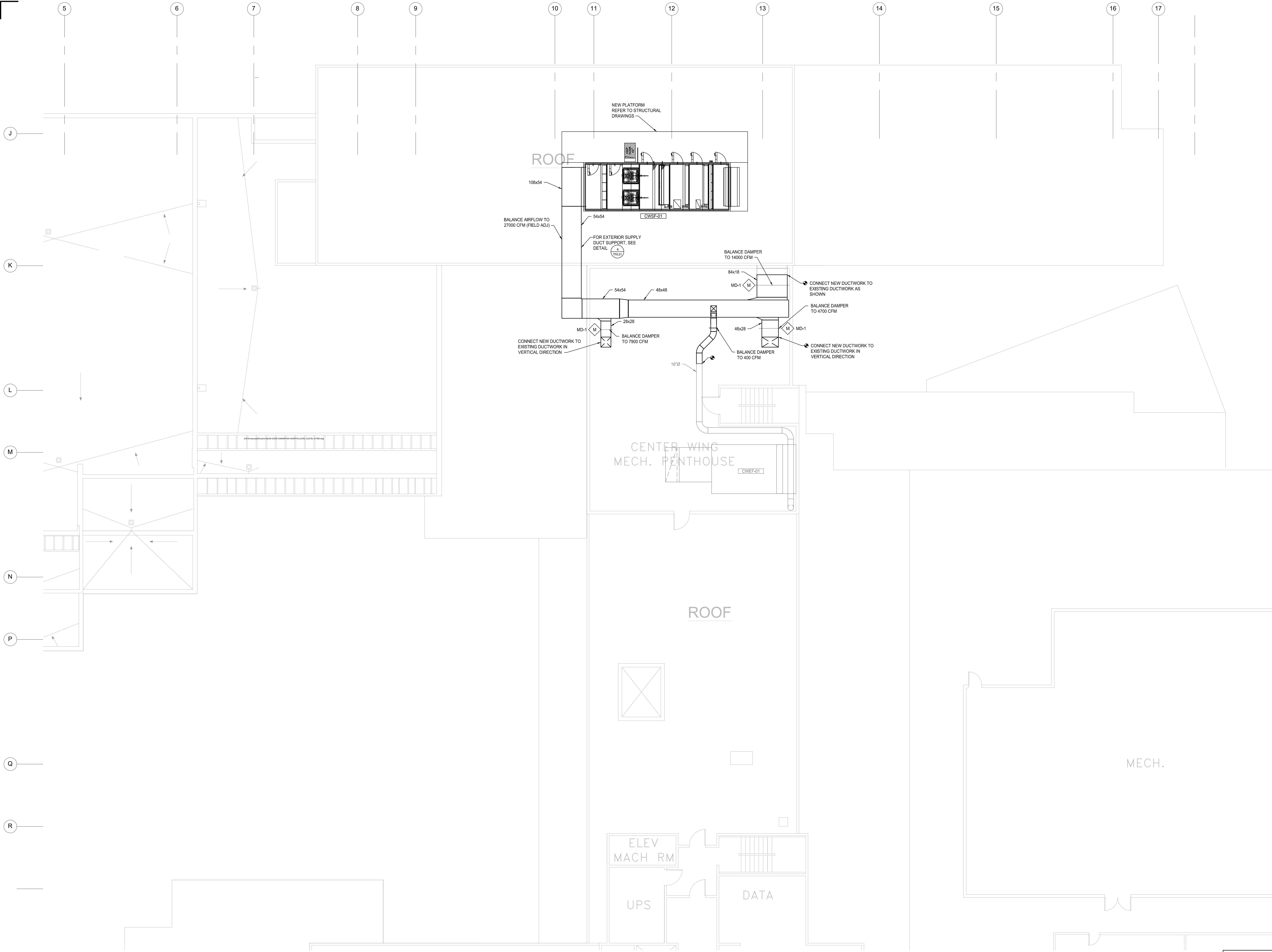
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MacDonald, September 1, 2021 11:05:11 AM



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CENTER WING MECHANICAL PENTHOUSE PLAN
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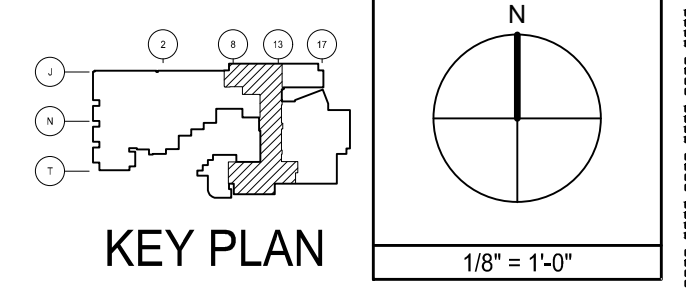
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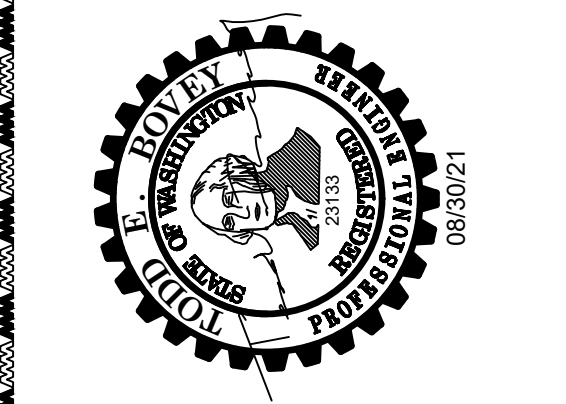
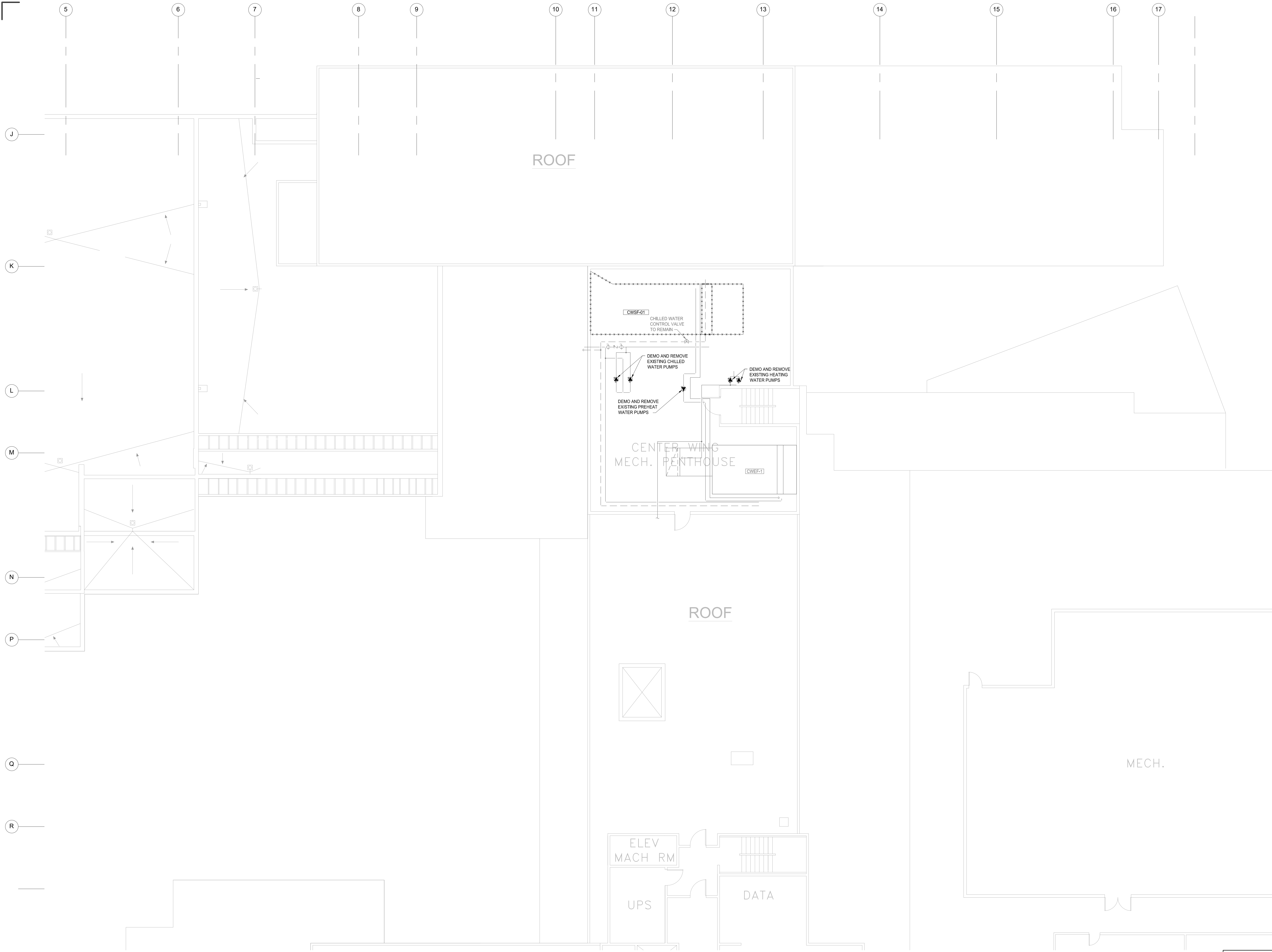
MacDonald-Miller
 FACILITY SOLUTIONS
 7717 Dancer Avenue SW Seattle, WA 98108
 Phone: 206-763-3400 Fax: 206-763-6773
 www.macmiller.com
 WA Lic No: MAC0075960RU

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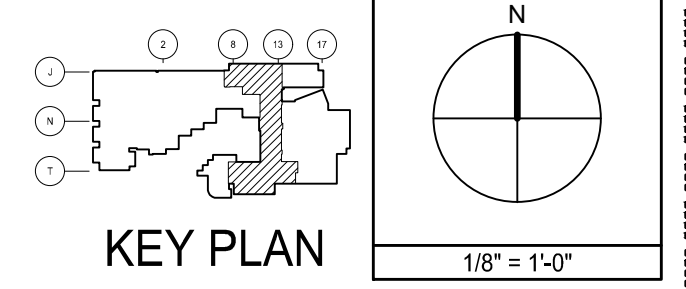
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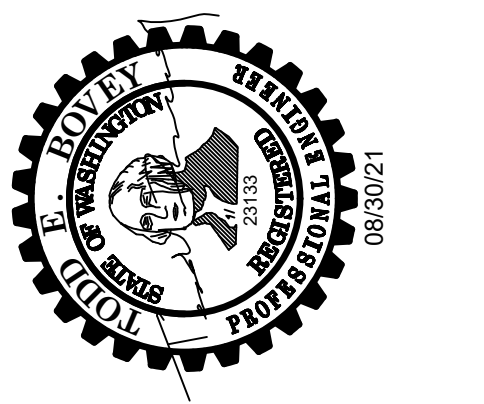
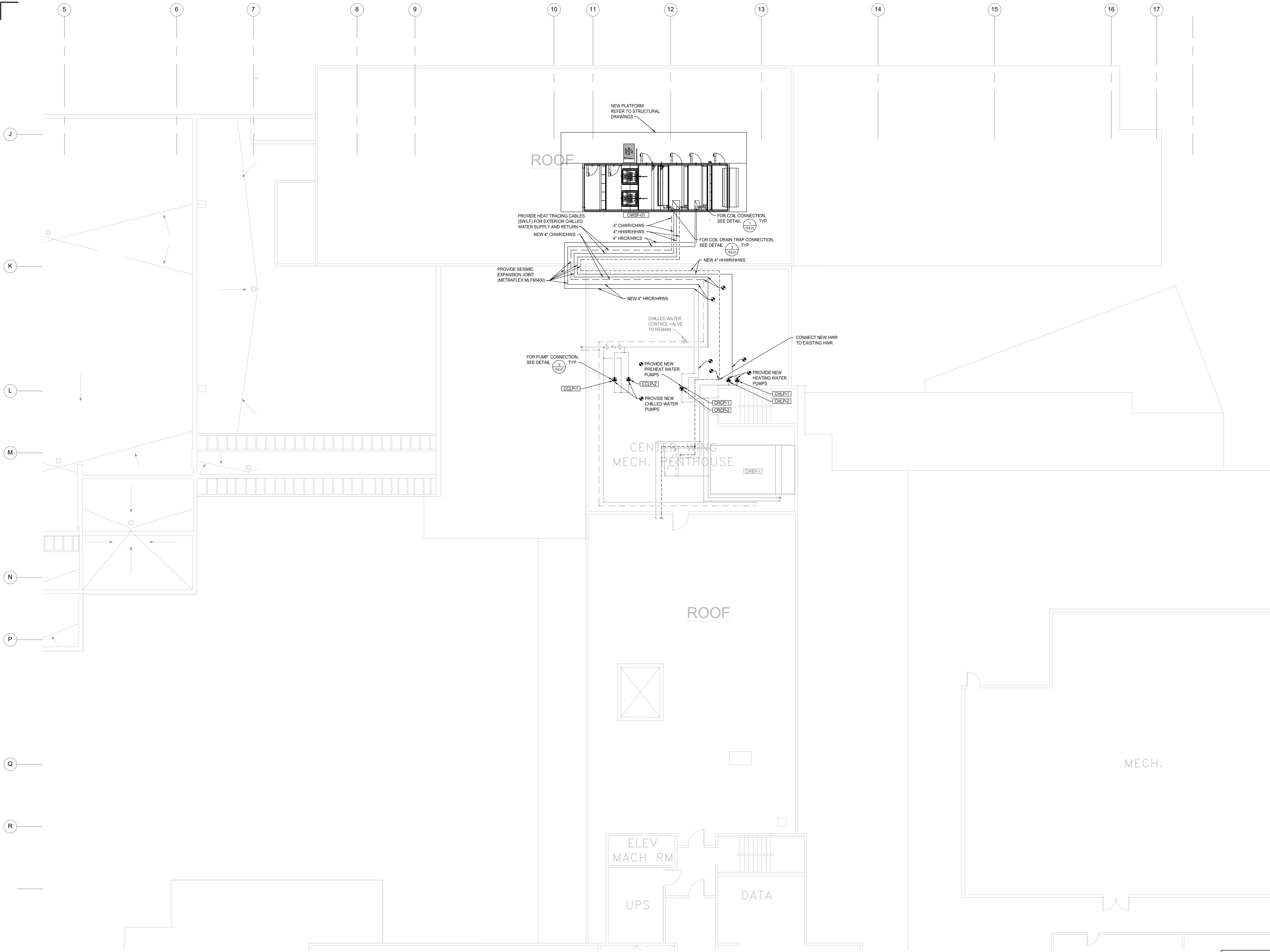
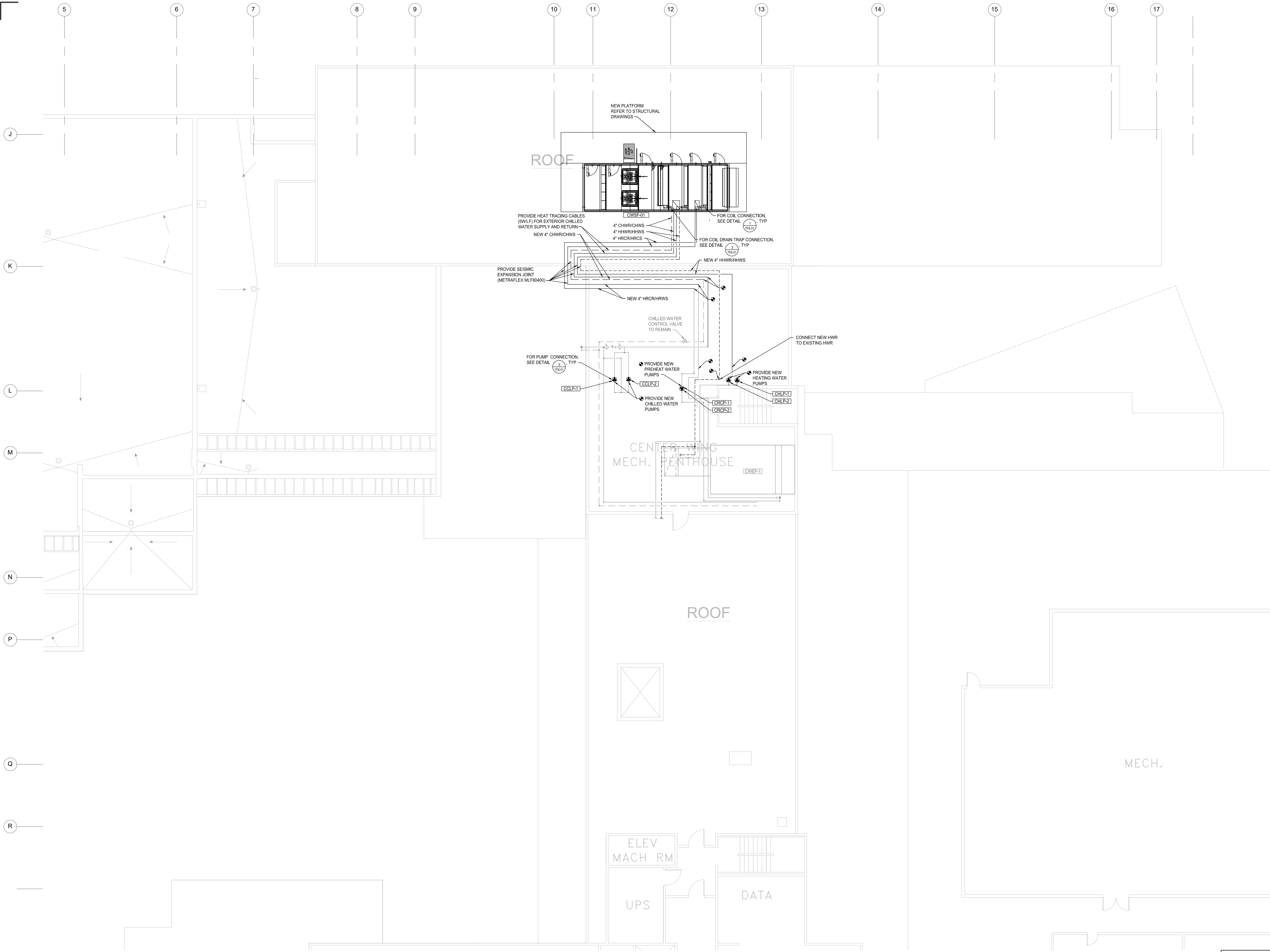
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CENTER WING MECHANICAL PENTHOUSE PLAN

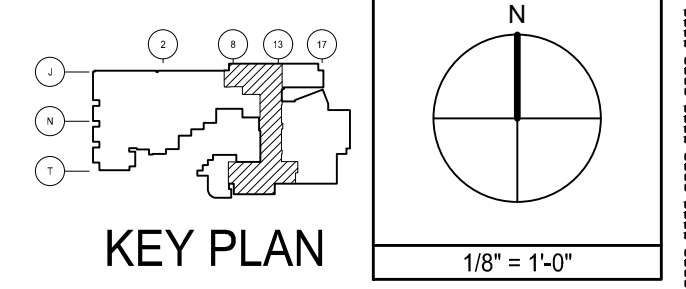
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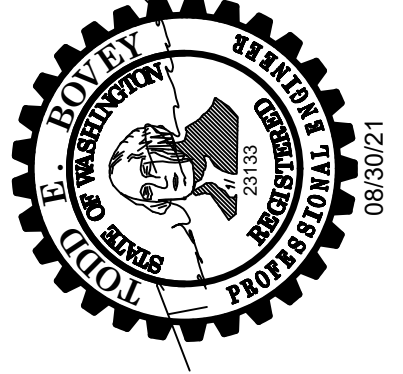
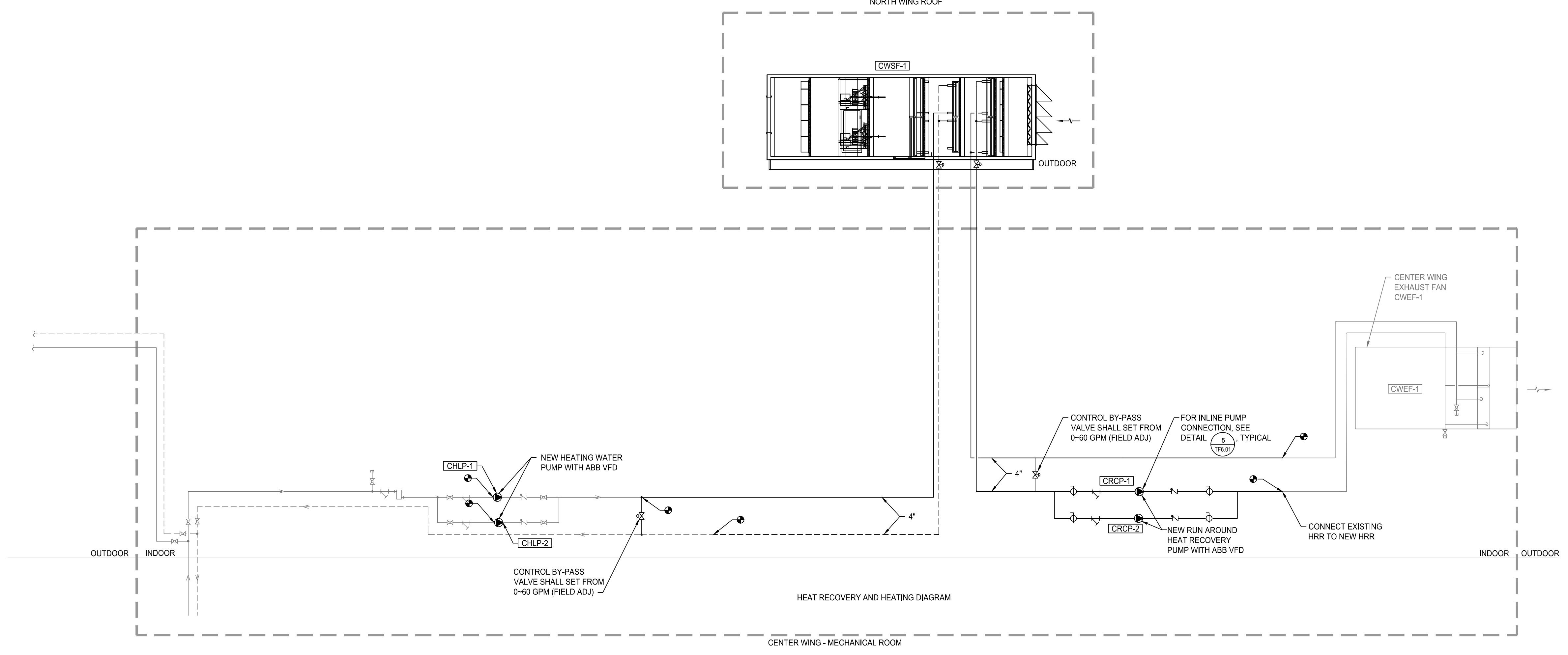
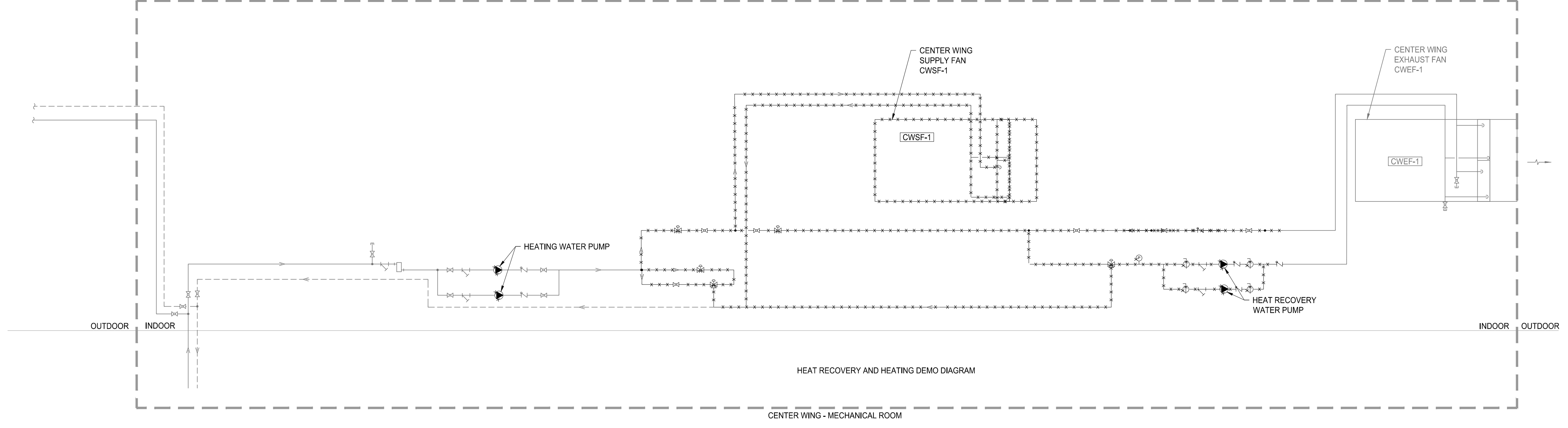
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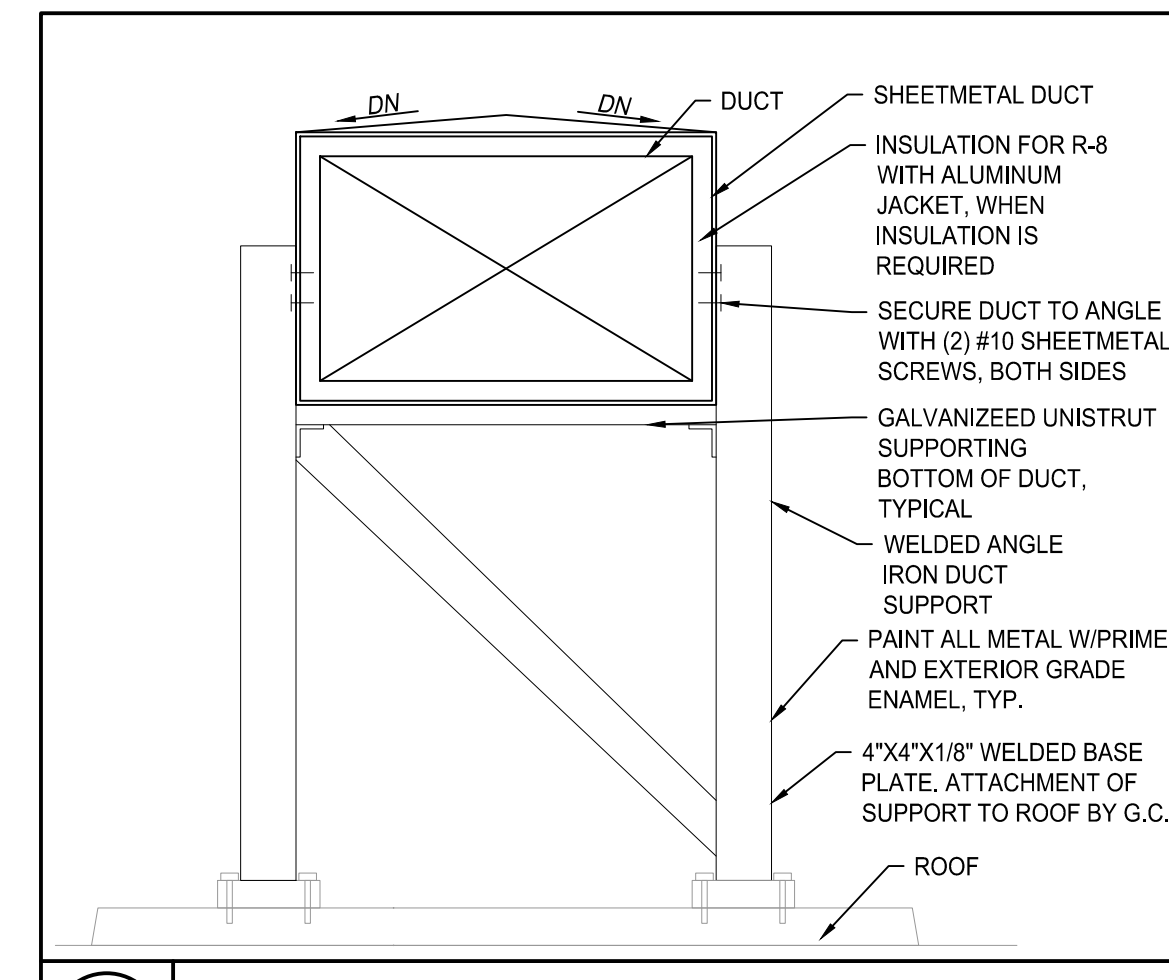
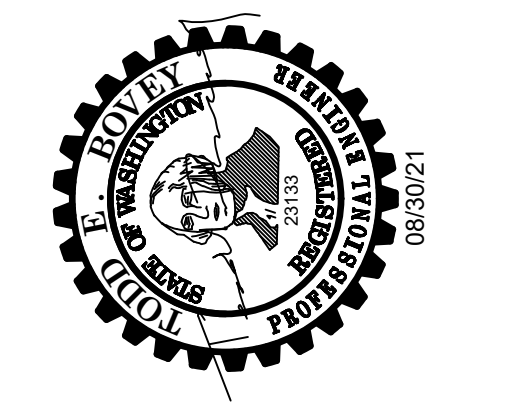
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CENTER WING HEAT RECOVERY AND HEATING SYSTEM DIAGRAM

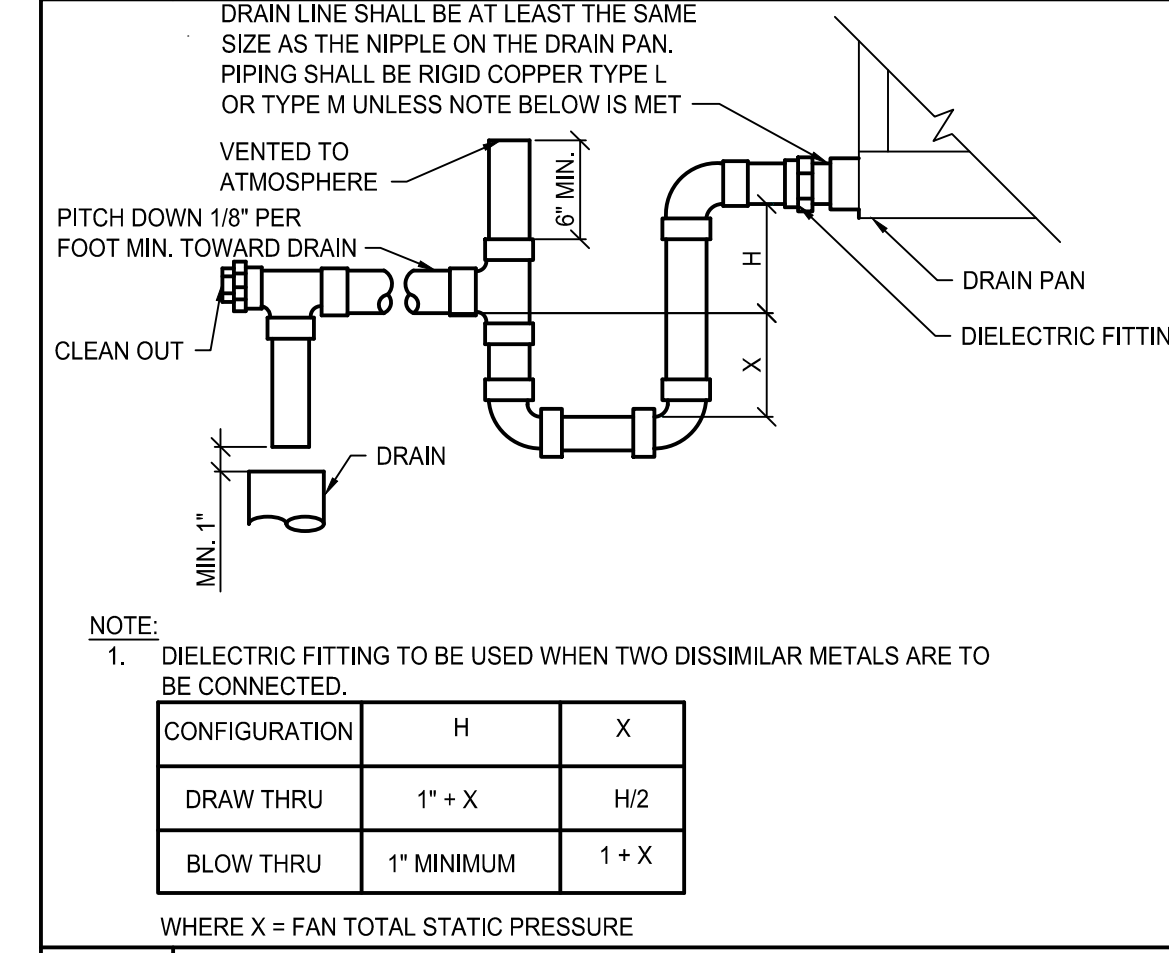
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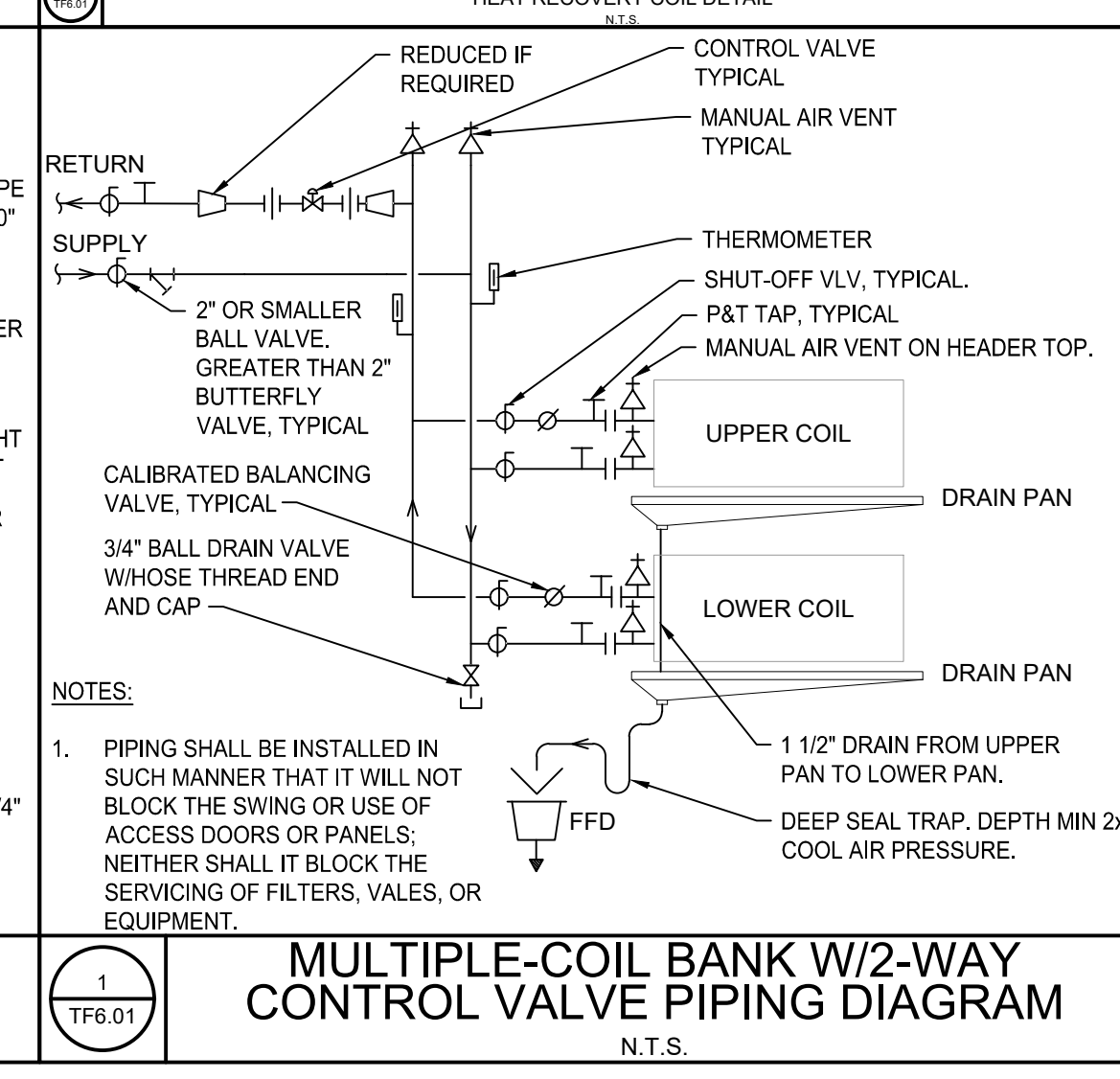
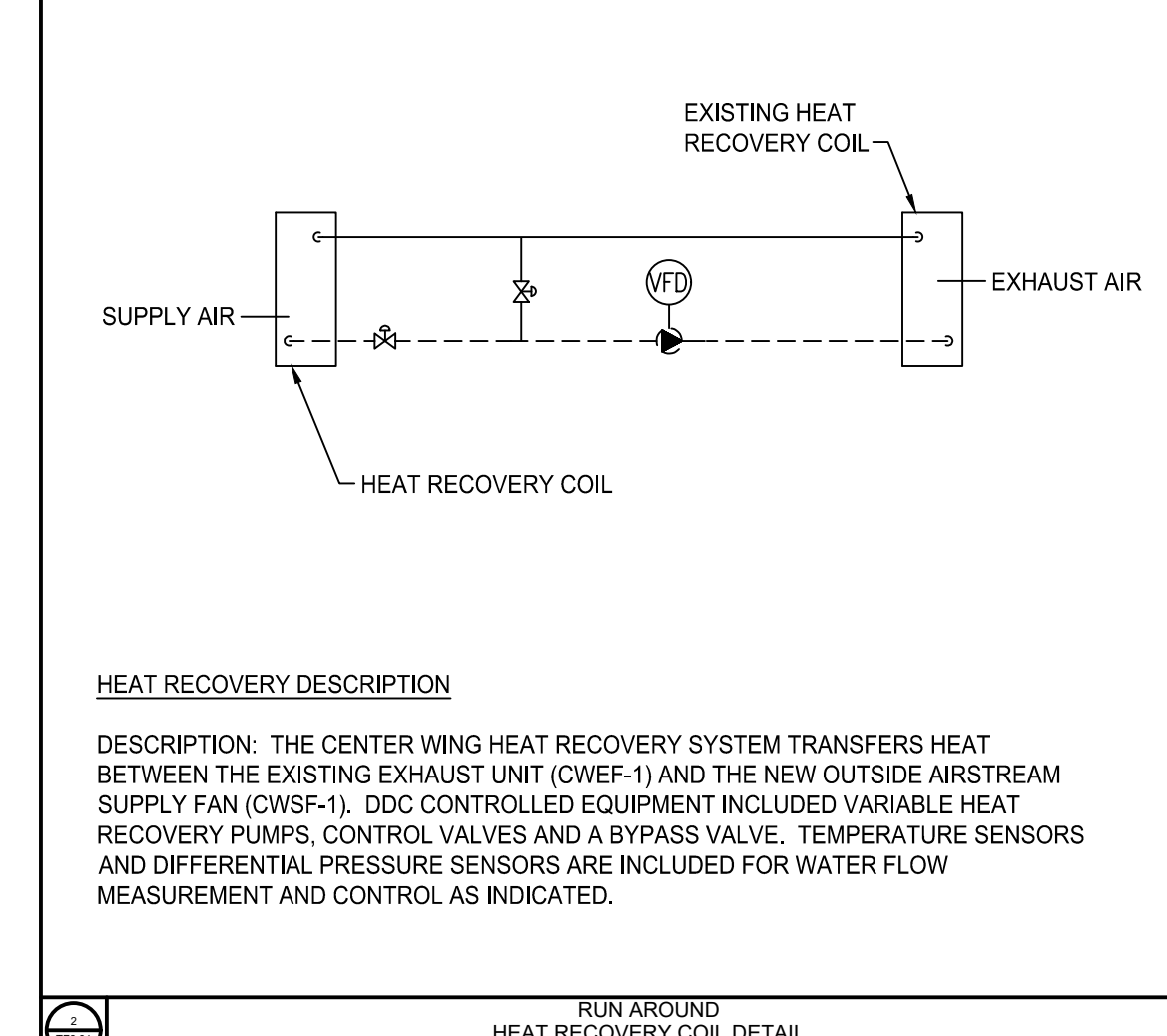
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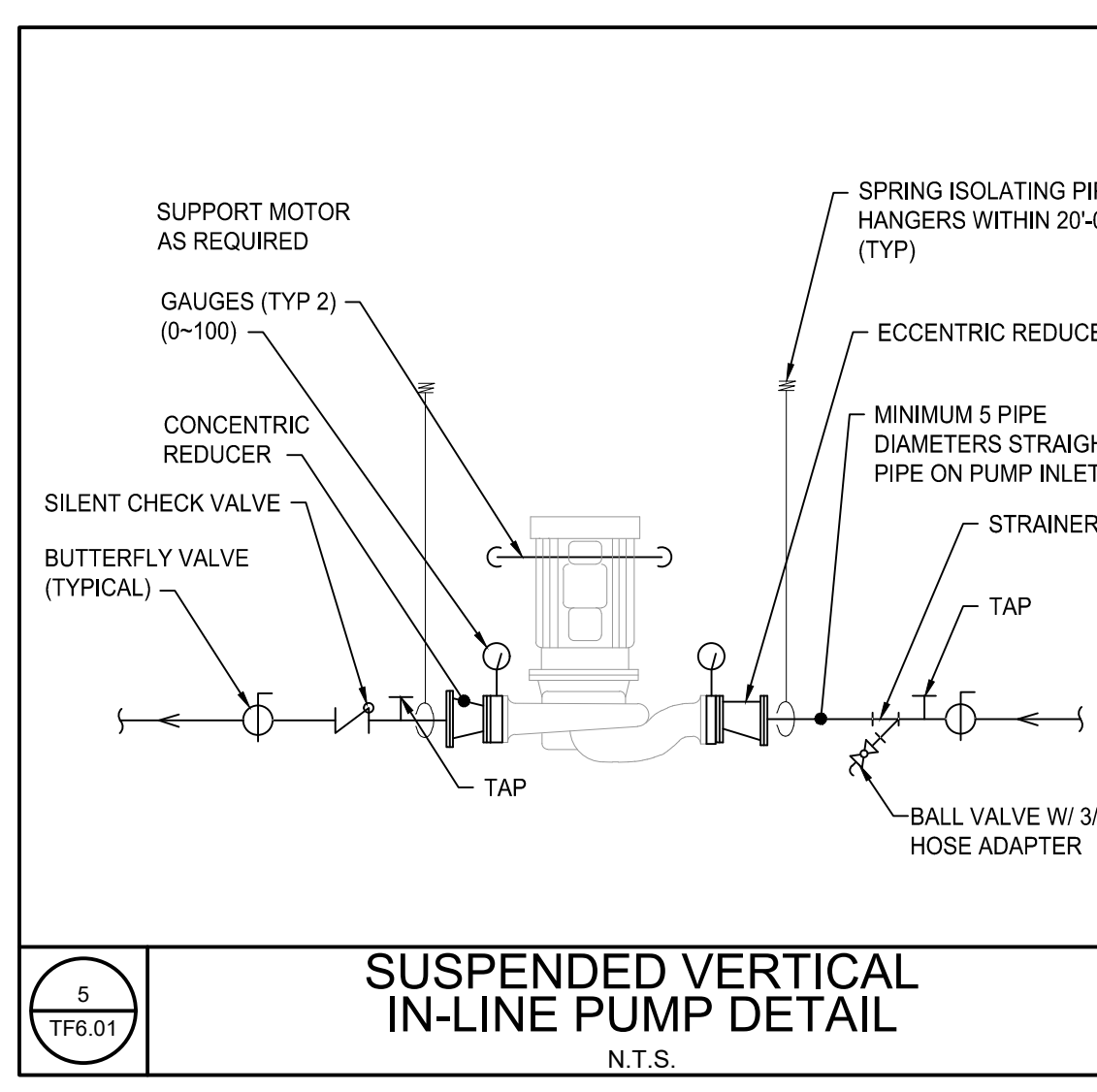
4 TF6.01 **ROOF DUCT SUPPORT DETAIL**
N.T.S.



3 TF6.01 **AIR HANDLING UNIT DRAIN TRAP**
N.T.S.



1 TF6.01 **MULTIPLE-COIL BANK W/2-WAY CONTROL VALVE PIPING DIAGRAM**
N.T.S.



5 TF6.01 **SUSPENDED VERTICAL IN-LINE PUMP DETAIL**
N.T.S.

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DETAILS
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