



The City of
WORCESTER

Administration & Finance – Purchasing Division
Christopher J. Gagliastro, MCPPO – Purchasing Director
455 Main Street, Room 201, Worcester, MA 01608
P | 508-799-1220
purchasing@worcesterma.gov

June 1, 2023

To All Bidders:

Subject: **Bid No. 8022-W3, Temporary Chiller Installation – WPD HQ / DPF**

ADDENDUM NO. 2

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

- **PLEASE FIND ATTACHED UPDATED DRAWINGS**
- **THE BID SET SPECIFICATIONS POSTED ON THE BIDS PAGE HAVE BEEN DELETED.**
 - **ALL OTHER BID DOCUMENTS ARE IN ORDER**

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Christopher J. Gagliastro
Purchasing Director

9-11 LINCOLN SQUARE WORCESTER, MA 01608



**MECHANICAL, PLUMBING &
FIRE PROTECTION
SEAMAN ENGINEERING CORP.**
22 West Street, Unit C
Millbury, MA 01527
(508) 865-1400

ACUST.	ACOUSTICAL	CONTR.	CONTRACTOR	FLUOR.	FLUORESCENT	MACH.	MACHINE	REGD.	REQUIRED	W.	WIDE
ADJ.	ADJUSTABLE	CORR.	CORRIDOR	F.P.	FIRE PROOFING	MAS.	MASONRY	RESIL.	RESILIENT	W/	WITH
ADJ.	ADJUSTABLE	C.R.	COLD ROLLED	F.S.	FIRE SHIELD	MAT.	MATERIAL	RET.	RETAINING	W.C.	WATER CLOSET
AFF	ABOVE FINISHED FLOOR	C.S.	COURSES	F.S.Z.	FULL SIZE	MAX.	MATCH	RM.	ROOM	W.D.	WOOD
ALU.	ALUMINUM	CSK.	COUNTERSINK	FT.	FEET/FOOT	MECH.	MECHANICAL	R.O.	ROUGH OPENING	W.D.	WINDOW DIMENSION
ALUM.	ALUMINUM	CTOP	COUNTERTOP	FT.2	SQUARE FEET	MEMBR.	MEMBR.	R.W.L.	RAIN WATER LEADER	W.I.	WROUGHT IRON
ANCH.	ANCHOR	CU.	CUBIC	FT.3	CUBIC FEET	M.D.	METAL DOOR	RB.	RESILIENT BASE	WIND.	WINDOW
APPROX.	APPROXIMATELY	C.U.H.	CABINET UNIT HEATER	F.O.	FRAMED OPENING	MFG.	MANUFACTURER	SCHED.	SCHEDULE	W.O.	WINDOW OPENING
@	AT	D.A.	DOUBLE ACTING	FUR.	FURRING	MIN.	MINIMUM	SECT.	SECTION	W.P.	WATERPROOFING
		D.A.F.S.	DIRECT APPLIED FINISH			MISC.	MISCELLANEOUS	SH.	SHELVES	W.T.	WEIGHT
			SYSTEM	GA.	GAUGE	M.D.G.	MOLDING	SHT.	SHEET	X	WELDED WIRE MESH
BD.	BOARD	DET.	DETAIL	GALV.	GALVANIZED	M.O.	MASONRY OPENING	S.I.G.S.	SILICON IMPREGNATED GYPSUM SHEATHING	YD.	YARD
BKT.	BACKSPALSH BRACKET	D.F.	DRAINING FOUNTAIN	GL.	GLASS	M.T.	METAL THRESHOLD			Z	ZEE (STRUCTURAL SHAPE)
BLDG.	BUILDING	DN.	DOWN	GR.	GRADE	MTD.	MOUNTED				
BLK.	BLOCK	DO.	DITTO (REPEAT)	G.S.U.	GLAZED STRUCTURAL UNIT	MTL.	METAL	SIM.	SIMILAR		
BLKG.	BLOCKING	D.O.	DOOR OPENING	GYP.	GYPSUM WALLBOARD	M.M.C.	MISC. METAL CONTRACTOR	SLID.	SLIDING		
BM.	BEAM	DSP.	DISPENSER	G.W.B.				SPEC.	SPECIFICATIONS		
BOT.	BOTTOM	D.W.	DRY WALL			NAT.	NATURAL	SQ.	SQUARE		
B.O.B.	BOTTOM OF BEAM	DWG.	DRAWING	H.C.	HANDICAP	N.C.	NONCORROSIVE	STOR.	STORAGE		
B.O.P.	BOTTOM OF PIPES			H.C.P.	HANDICAP	N.I.C.	NOT IN CONTRACT				
B.O.D.	BOTTOM OF DUCT	EA.	EACH	H.C.P.	HANDICAP	NO./#	NUMBER	S.T.	STRUCTURAL TUBE		
		ED.	EDUCATION	H.D.	HIGH DENSITY	NOM.	NOMINAL	S.S.	STAINLESS STEEL		
		EDSP.	ENDSPASH	HDWR.	HARDWARE	O.A.	OVERALL	STD.	STANDARD		
CG	CORNER GUARD	E.J.	EXPANSION JOINT	H.M.	HOLLOW METAL	O.C.	ON CENTER	STL.	STEEL		
CAB.	CABINET	EL.	ELEVATION (GRADE)	HORIZ.	HORIZONTAL	O.D.	OUTSIDE DIAMETER	STRUCT.	STRUCTURAL		
C.B.	CHALK BOARD	ELEC.	ELECTRICAL	HR.	HOUR	O.H.	OPPOSITE HAND	SUSP.	SUSPENDED		
CEM.	CEMENT	ELEV.	ELEVATION (FACADE)	HT.	HEIGHT	OPER.	OPERATE	T.	TREADS		
CER.C.T.	CERAMIC TILE	ELEV.	ELEVATOR	HVAC	HEATING, VENTILATING & AIR CONDITIONING	OPNG.	OPENING	T.B.L.	TABLE		
C.G.	CORNER GUARD	EQ.	EQUAL			OVHD.	OVERHEAD	T.B.	TACK BOARD		
C.I.	CAST IRON	E.S.	EACH SIDE			OZ.	OUNCE(S)	TEL.	TELEPHONE		
C.I.P.	CAST IN PLACE	E.T.R.	EXISTING TO REMAIN	LD.	INSIDE DIAMETER			TERR.	TERRAZZO		
C.J.	CONTROL JOINT	EXH.	EXHAUST	IN.	INCH, INCHES	PARTN.	PARTITION	T&G	TONGUE & GROOVE		
CLG.	CEILING	EXIST.	EXITING	IN.2	SQUARE INCHES	PERIM.	PERIMETER	THK.	THICKNESS		
CLKG.	CHALKING	EXP. JT.	EXPANSION JOINT	IN.3	CUBIC INCHES	PERP.	PERPENDICULAR (TO)	THRESH.	THRESHOLD		
CLR.	CLEAR	EXP.	EXPOSED	INCAN.	INCANDESCENT	P.L.	PLATE	T.L.T.	TOILET		
CLOS.	CLOSET	EXT.	EXTERIOR	INFIL.	INFILTRATION	PL.	PLASTER	T.O.B.	TOP OF BLOCKING		
C.M.U.	CONC. MASONRY UNIT	EXTIN.	EXTINGUISHER	INSUL.	INSULATION	PLUMB.	PLUMBING	T.O.C.	TOP OF CONCRETE		
C.O.	CLEAR OPENING			INT.	INTERIOR	PLYVD.	PLYWOOD	T.O.S.	TOP OF STEEL		
COL.	COLUMN	F.C.P.	FIBER CEMENT PANEL	INV.	INVERT	PNL.	PANEL	T.W.	TOP OF WALL		
CONC.	CONCRETE	F.D.C.	FIRE DEPT. CONNECTION			POL.	POLISHED	TYP.	TYPICAL		
C.H.P.	CONC. HOUSEKEEPING PAD	F.D.V.C.	FIRE DEPT. VALVE	JST.	JOIST	PR.	PAIR	TWR.	TOWER		
COND.	CONDITION	FB.	FLAT BAR			PTD.	PAINTED				
CONST.	CONSTRUCTION	F.C.	FIRE CODE			P.T.	PRESSURE TREATED	U.C.	UNDERCUT		
CONT.	CONTINUOUS	F.D.	FLOOR DRAIN	LAM.	LAMINATED			U.L.	UNDERWRITERS LABORATORY		
		F.E.	FIRE EXTINGUISHER	LB.#	POUND	Q.T.	QUARRY TILE	U.O.N.	UNLESS OTHERWISE NOTED		
		F.E.C.	FIRE EXTINGUISHER	L.C.	LEAD COATED	QTY.	QUANTITY	U.P.R.	UPPER		
			CABINET	L.D.P.	LAMINATED DRYWALL PART.			U.V.	UNIT VENTILATOR		
		F.F.	FACTORY FINISH	LGTH.	LENGTH	r.	RADIUS	V.C.	VINYL CLAD		
		F.H.	FLAT HEAD	L.G.M.F.	LIGHT GAGE METAL FRAMING	R.	RISER	VENT.	VENTILATOR		
		F.H									

DRAWING NUMBER

BID SET

MAY 24, 2023

DATE	MAY 24, 2023
DRAWING NUMBER	A1.01

CONSULTANTS

1 ADDENDUM #1 May 31, 2023

BID SET

02023.03

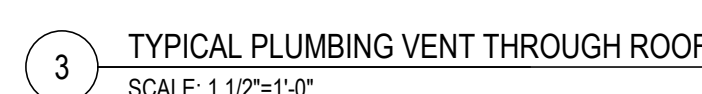
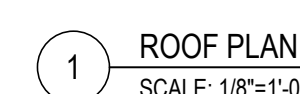
WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT

ROOF PLAN,
ROOF DETAIL &
CONTRACTOR STAGING/
LIFT AREA PARAMETERS



DATE MAY 24 2023

A2.01



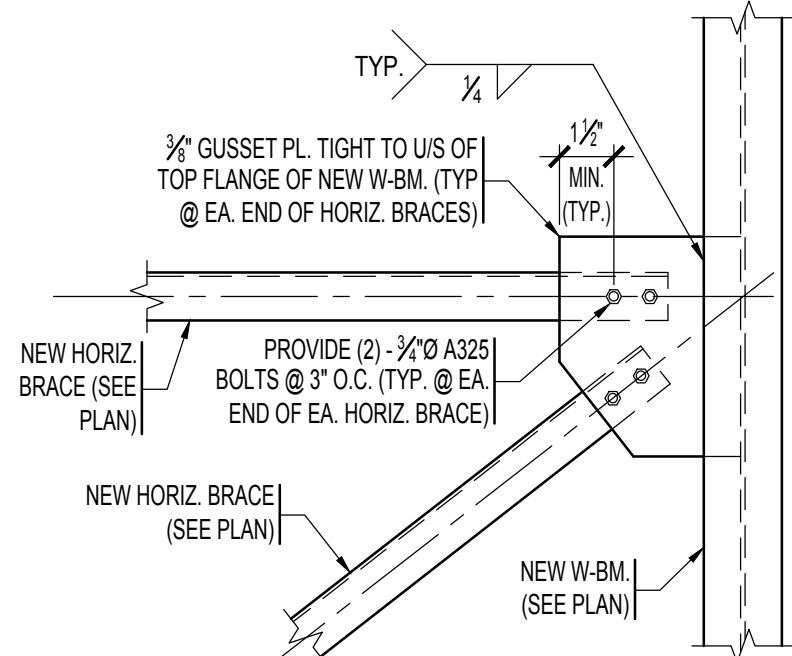
1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH EQUIPMENT VENDOR DRAWINGS, ALONG WITH EXISTING FIELD CONDITIONS.
2. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND A STAMPED ACCEPTANCE RECEIVED BEFORE FABRICATION CAN PROCEED. ERECTION SHALL BE EXECUTED FROM ACCEPTED SHOP DRAWINGS ONLY.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS (UNLESS OTHERWISE NOTED) OF THE FOLLOWING BUILDING CODES AND STANDARDS:
 - a. THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION
 - b. THE INTERNATIONAL BUILDING CODE, 2015 EDITION
 - c. THE INTERNATIONAL EXISTING BUILDING CODE, 2015 EDITION
 - d. ACI 530 - "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

1. ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP, AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF AISC 303-10 AND AISC 360-10. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - STRUCTURAL STEEL: W- AND WT-SHAPES: ASTM A992 (GRADE 50)
 - STRUCTURAL PLATES: ASTM A572 (50 KSI)
 - STRUCTURAL ANGLES: ASTM A572 (GRADE 50)
2. ALL STRUCTURAL STEEL SHALL BE UNPAINTED (TO RECEIVE SPRAYED-ON FIREPROOFING MATERIAL) UNLESS OTHERWISE NOTED.
3. ALL EXPOSED STRUCTURAL STEEL AND THEIR ASSOCIATED CONNECTIONS, INCLUDING ANY DUNNAGE AND LOOSE LINTELS, SHALL BE HOT-DIPPED GALVANIZED. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR GALVANIZING REQUIREMENTS.
4. SHOP OR FIELD WELDED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" BY THE AMERICAN WELDING SOCIETY AND SHALL USE E70 SERIES ELECTRODES, WHERE NO WELD SIZE IS INDICATED ON PLANS, DETAILS, OR SECTIONS, PROVIDE A MINIMUM OF 1/4" FILLET WELDS (ALL AROUND). ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL CERTIFICATIONS MUST BE CURRENT (i.e. WITHIN 12 MONTHS OF PERFORMANCE OF WELDING).
5. SHOP OR FIELD BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F3125, GRADE A325 OR GRADE A490, WHERE NO BOLT SIZE IS INDICATED ON PLANS, DETAILS, OR SECTIONS, PROVIDE A MINIMUM OF 3/4" Ø GRADE A325 BOLTS.

1. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS FOR WORK SPECIFIED IN CHAPTER 17 OF THE 2016 INTERNATIONAL BUILDING CODE, INCLUDING MASSACHUSETTS AMENDMENTS. THE TESTING AGENCY SHALL BE LICENSED IN MASSACHUSETTS AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN MASSACHUSETTS.
2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED. NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
3. THE TESTING AGENCY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SCHEDULING OF WORK.
4. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
5. REFER TO LIST OF REQUIRED SPECIAL INSPECTIONS BELOW:

1. STRUCTURAL STEEL:
 - A. GRADE
 - B. PLACEMENT
 - C. BOLTED AND WELDED CONNECTIONS

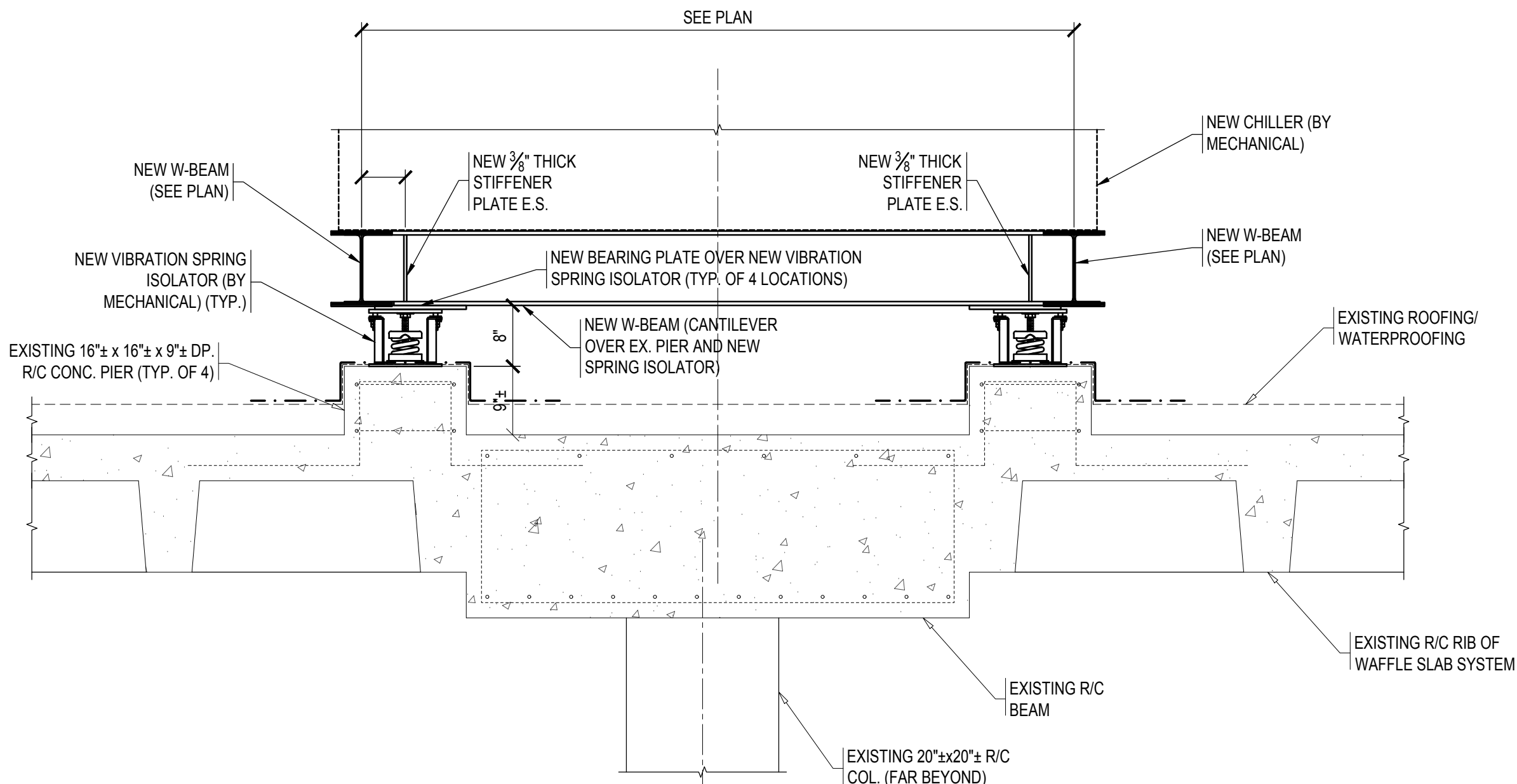
1. BUILDING FLOOR LOADS (PER SECTIONS 1606 THRU 1608)
 - A. GROUND SNOW LOAD, $P_g = 50$ PSF (PER SECTION 1608)
 - FLAT-ROOF SNOW LOAD, $P_f = 42$ PSF (MIN.)
 - PLUS SNOWDIFT LOADING WHERE APPLICABLE
 - SNOW EXPOSURE FACTOR, $C_e = 1.0$
 - SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.2$
 - THERMAL FACTOR, $C_t = 1.0$
 - B. ROOFING AND INSULATION: 10 PSF
 - C. SERVICES: 5 PSF
 - D. CEILINGS (WHERE THEY OCCUR) 3 PSF
 - E. STRUCTURE: ACTUAL WEIGHTS OF MATERIALS
2. BUILDING SECOND FLOOR LOADS (PER SECTIONS 1606 & 1607)
 - A. LIVE LOAD: 50 PSF
 - B. CEILING: 3 PSF
 - C. SERVICES: 7 PSF
 - D. PARTITIONS: 10 PSF
 - E. STRUCTURE: ACTUAL WEIGHTS OF MATERIALS
3. WIND DESIGN (PER SECTION 1609 AND IBCB 2015)
 - A. ULTIMATE DESIGN WIND SPEED, V_{ult} (5 SECOND GUST) = 134 MPH
 - B. NOMINAL DESIGN WIND SPEED, $V_{sld} = 104$ MPH
 - C. RISK CATEGORY = 4



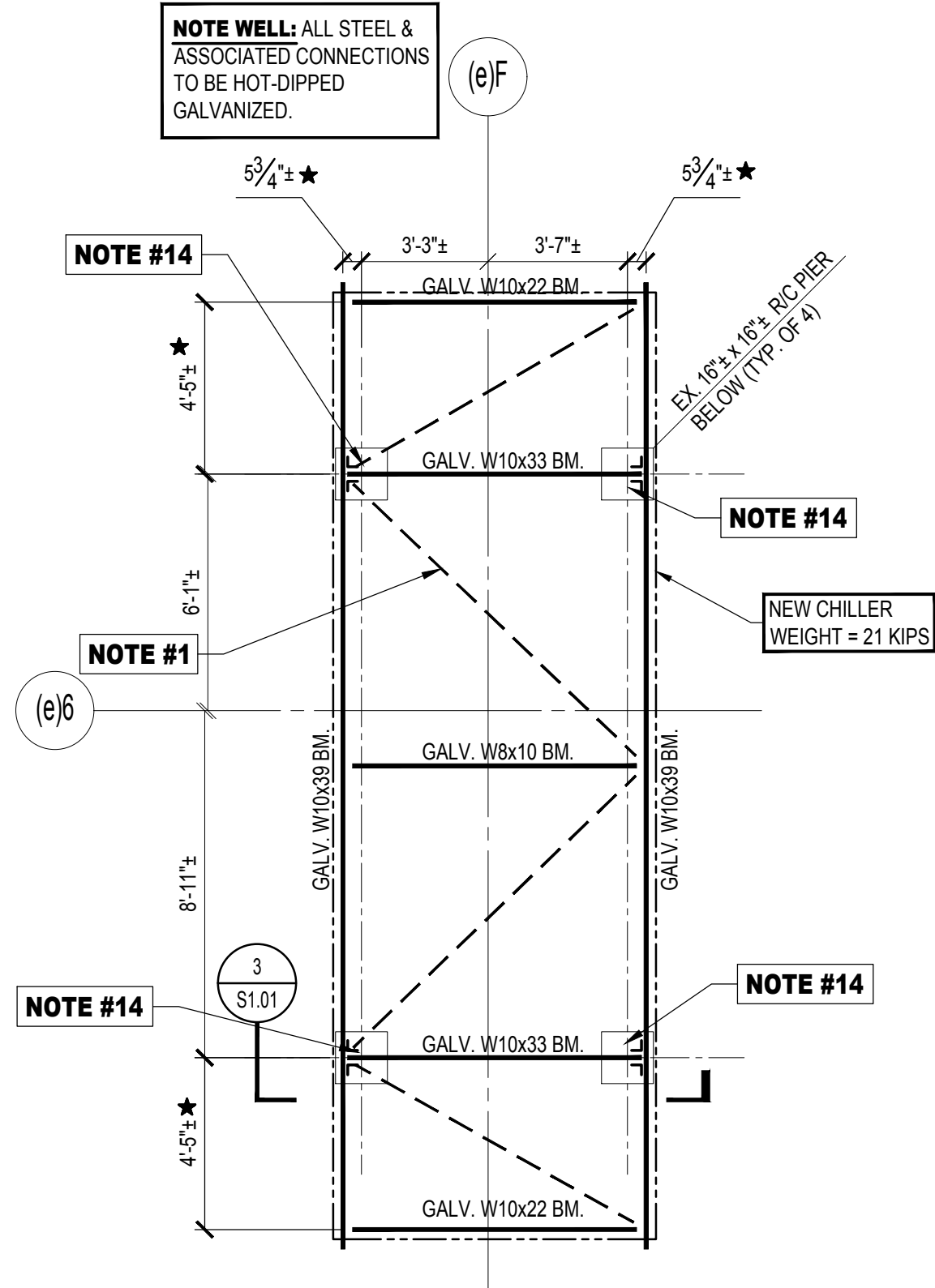
NOTES:

1. SIMILAR AT BEAM TO COLUMN CONNECTIONS.
2. THE STEEL FABRICATOR SHALL DESIGN ALL CONNECTIONS FOR SHEAR REACTIONS GIVEN ON PLANS OR IN SECTIONS. IF NO REACTION IS GIVEN, THE DESIGN SHEAR CAPACITIES IN THE TABLE TO THE RIGHT SHALL BE MAINTAINED.
3. THE STEEL FABRICATOR HAS THE OPTION TO USE ALTERNATE CONNECTION TYPES IN LIEU OF SINGLE PLATE CONNECTIONS, PROVIDED THAT THE MINIMUM SHEAR CAPACITIES AND NUMBERS OF BOLTS AS DEFINED IN THE TABLE ARE MAINTAINED, AND THE STEEL FABRICATOR PROVIDES FULL CALCULATIONS OR REFERENCES TO AISC STANDARD CONNECTION TABLES.
4. WHERE SHORT-SLOTTED HOLES ARE USED, THE HOLE MAY BE HORIZONTALLY SLOTTED IN EITHER THE BEAM WEB OR THE SHEAR PLATE AT THE FABRICATOR'S PREFERENCE.
5. MINIMUM SHEAR CONNECTION REQUIREMENTS ARE FOR ALLOWABLE STRENGTH DESIGN (ASD).

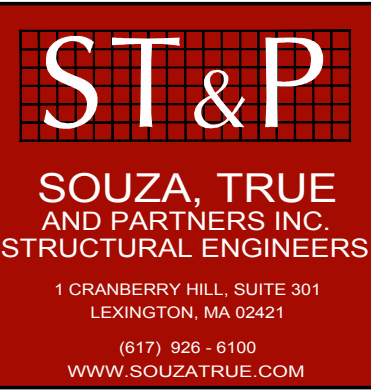
2 TYPICAL GUSSET PLATE CONNECTION FOR HORIZONTAL BRACES

[illegible] $\frac{1}{4}'' = 1'-0''$

NOTE WELL: ALL STEEL & ASSOCIATED CONNECTIONS TO BE HOT-DIPPED GALVANIZED.

 $\frac{1}{4}'' = 1'-0''$

3. WHERE INDICATED, PROVIDE NEW GALV. L6x4x5/16 (LVL) HORIZONTAL BRACES. TOP OF STEEL AT NEW BRACES SHALL SET AT UNDERSIDE OF ADJACENT BEAM FLANGE BUT NO MORE THAN 2" BELOW ADJACENT TOP OF ADJACENT BEAM FLANGE. (TOP - U.O.N.). REFER TO DETAIL 2 ON DRAWING S1.01.
2. REFER TO MEP DRAWINGS FOR DIMENSIONS/ELEVATIONS NOT SHOWN.
3. "M" INDICATES CONTRACTOR TO COORDINATE WITH EQUIPMENT MANUFACTURER'S DRAWINGS. PRIOR TO SUBMISSION OF SHOP DRAWINGS AND FABRICATION.
4. REFER TO GENERAL NOTES & TYPICAL DETAILS ON THIS DRAWING.
5. WHERE REQUIRED, ALL FIELD WEILDS AND SCARRED AREAS TO BE TOUCHED-UP IN 1/4 IN. MILS. OF A ZINC-RICH PRIMER (BRUSH-APPLIED ONLY).
6. CONTRACTOR TO RE-PATCH ALL PENETRATIONS THRU EXISTING ROOF MEMBRANE FOR A TIGHT AND SEALED FIT. AS REQUIRED - SEE ARCH DWGS.
7. NEW DUNNAGE TO SLO ELEVATION SHALL BE AS NOTED ON PLAN AND IN SECTIONS.
8. ALL DIMENSIONS NOTED (A) SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. SHOP DRAWINGS THAT DO NOT INCLUDE FIELD VERIFIED DIMENSIONS WILL BE REQUIRED TO BE RESUBMITTED PRIOR TO ACCEPTANCE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY SHORING AND BRACING DURING THE ENTIRE CONSTRUCTION PERIOD. AS REQUIRED, TO PREVENT DAMAGE TO PERSONS OR PROPERTY.
10. NEW MECHANICAL UNIT IS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE WITH UNIT MANUFACTURER'S DRAWINGS. MECHANICAL SHOP DRAWINGS AND ALL DETAILS OF EXISTING STRUCTURAL MEMBERS. CONTRACTOR SHALL COORDINATE LOCATIONS OF NEW DUNNAGE IN FIELD WITH NEW MECHANICAL UNIT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE EQUIPMENT MANUFACTURER PRIOR TO SHOP DRAWING SUBMISSION.
11. IF THE SIZE OR THE LOCATION OF THE NEW UNIT CHANGES, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY FOR REVIEW AND RE-EVALUATION OF THE EXISTING STRUCTURE AND NEW DUNNAGE FRAMING.
12. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED. U.O.N.
13. ALL NEW STRUCTURAL STEEL AND ASSOCIATED CONNECTIONS SHALL BE HOT-DIPPED GALVANIZED.
14. PROVIDE 2" THICK X 12" X 12" BEARING PLATE OVER NEW SPRING ISOLATOR AND EXISTING PIER.

[illegible]

BID SET

02023.03

WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT

9-11 LINCOLN SQUARE
WORCESTER, MA 01608

GENERAL NOTES,
PART PLAN, NOTES,
& DETAILS



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781 213 5040 F
info@mvgarchitects.com E



SCALE AS INDICATED

SCALE AS INDICATED

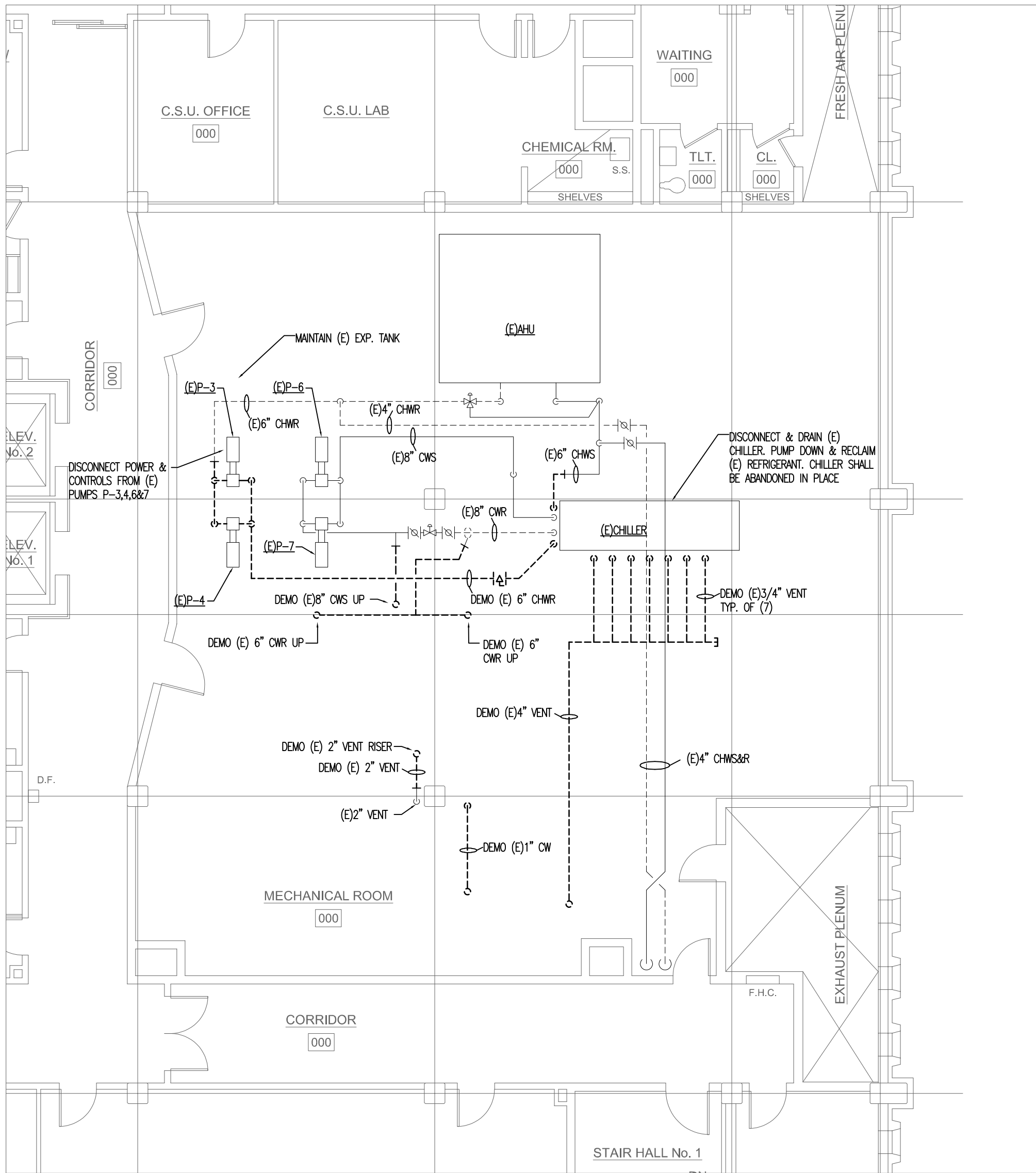
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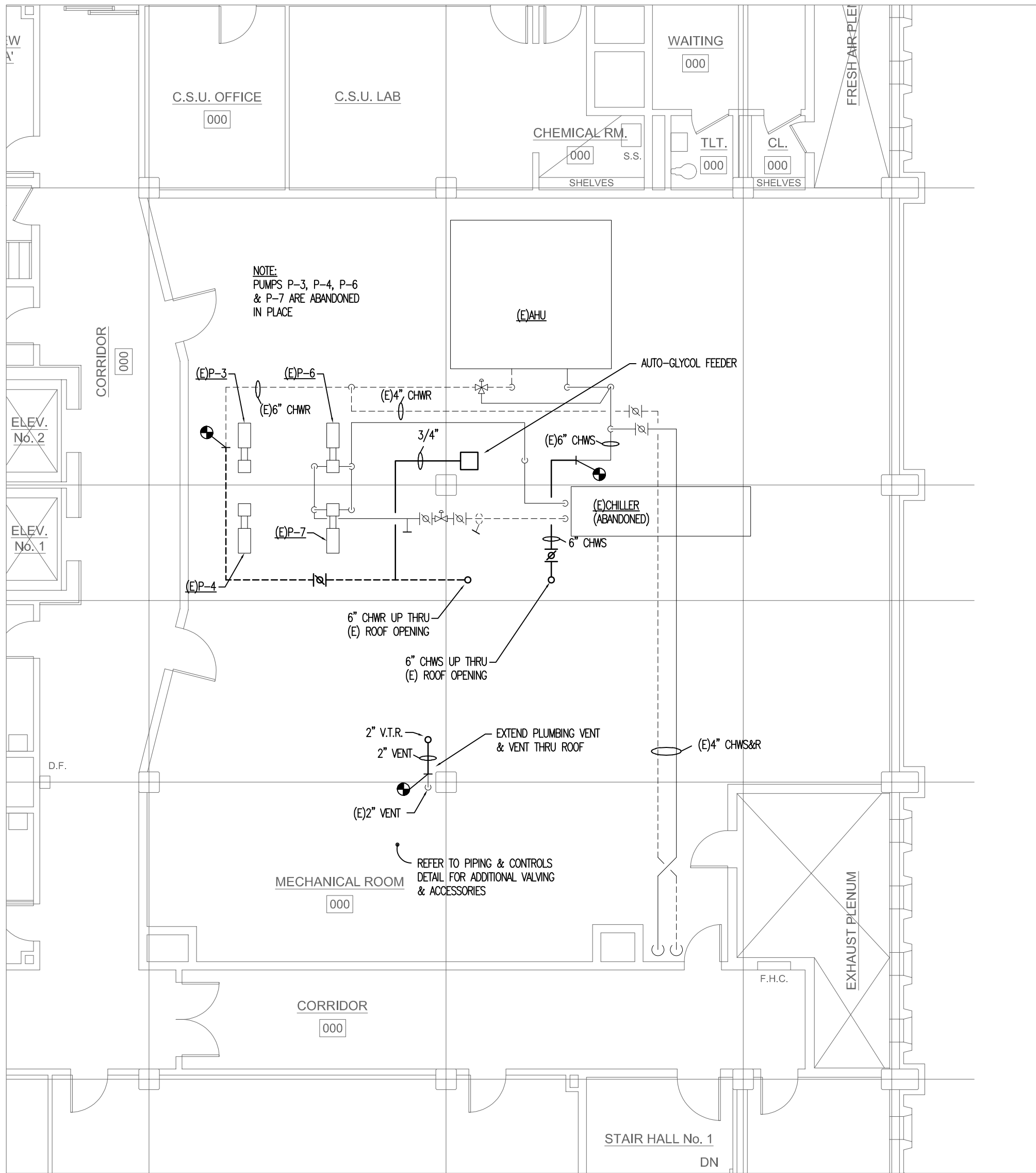
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DRAWING NUMBER:

S1.01

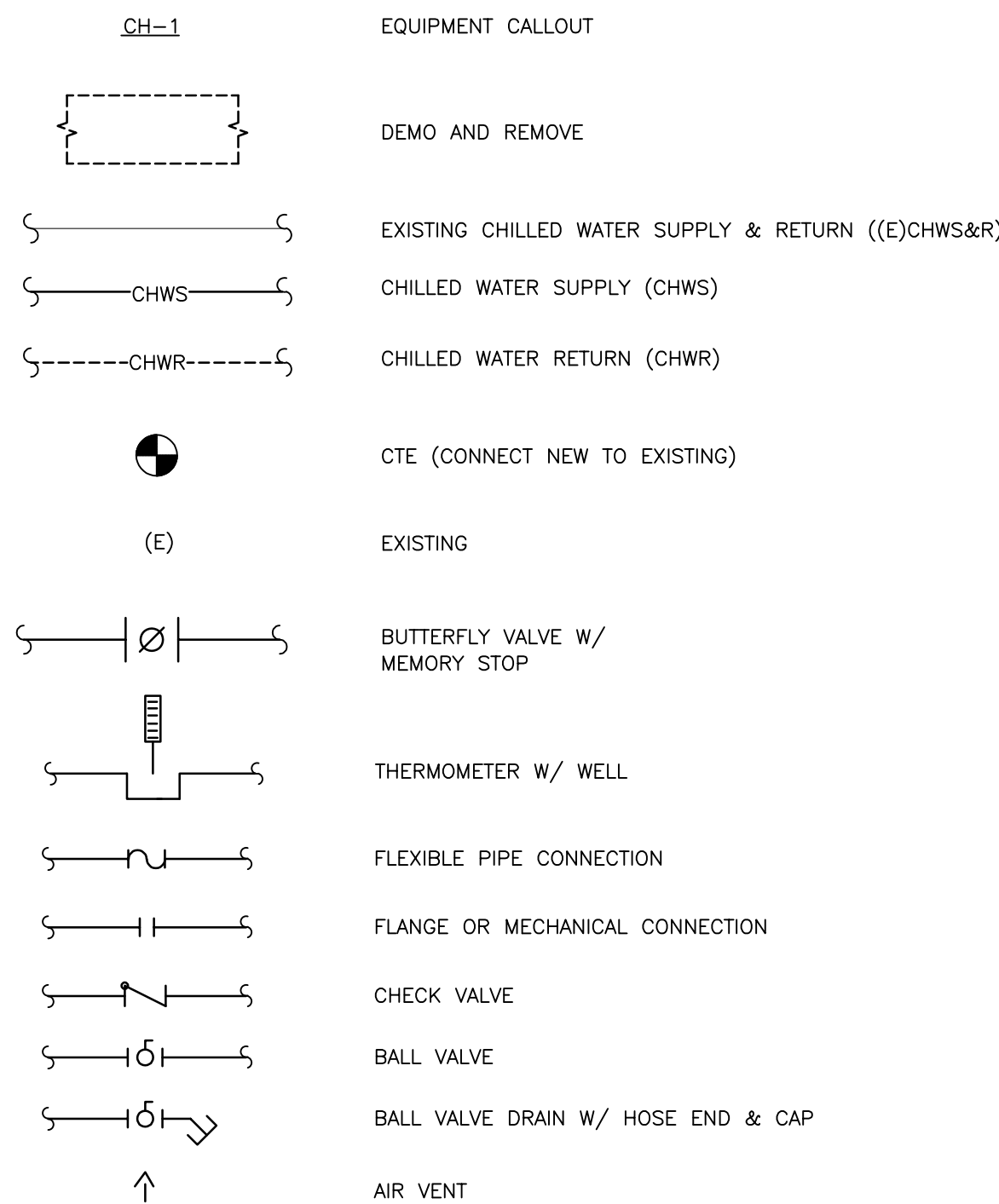


3RD FLOOR DEMO HVAC PLAN
SCALE: 1/8" = 1'-0"

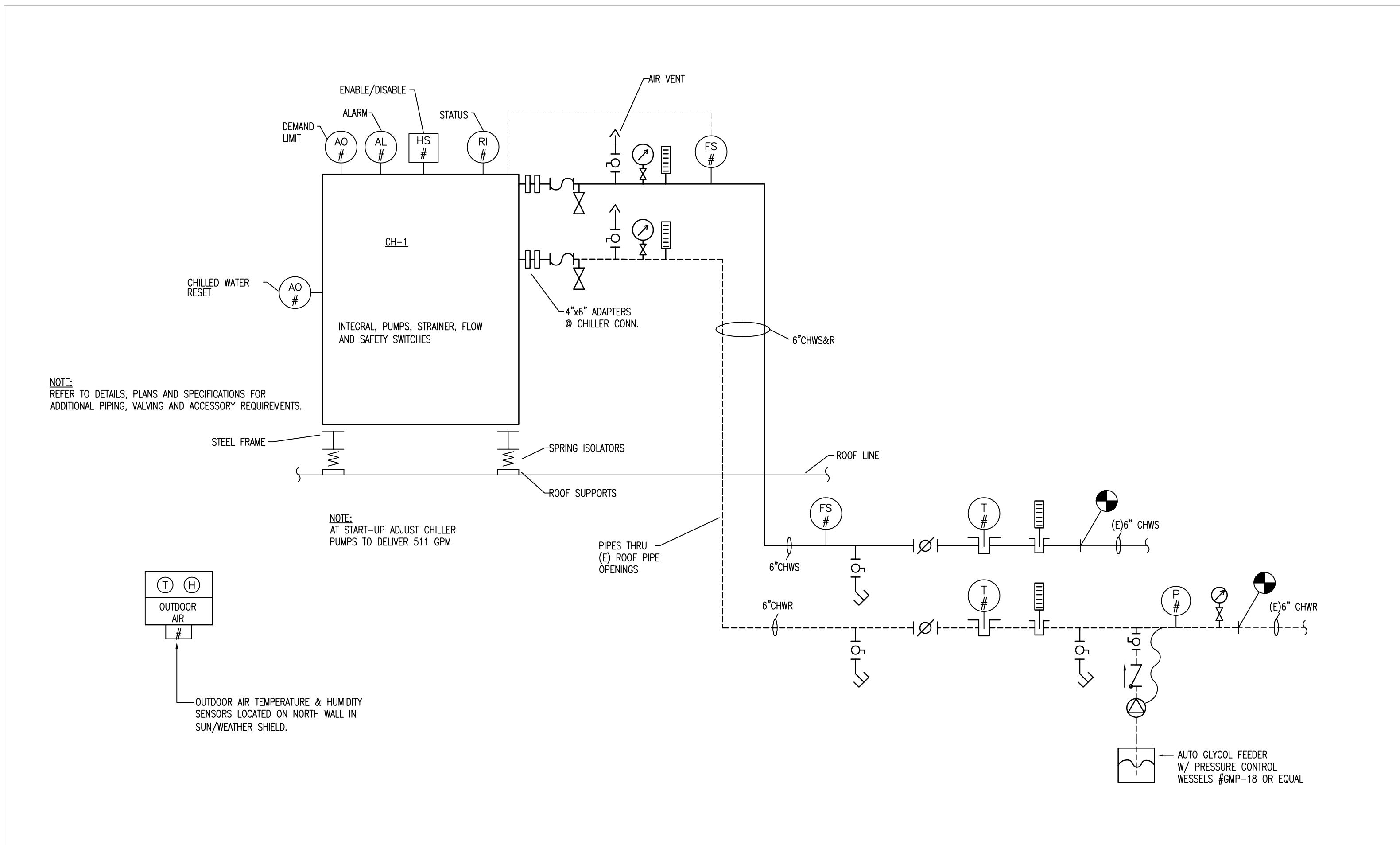
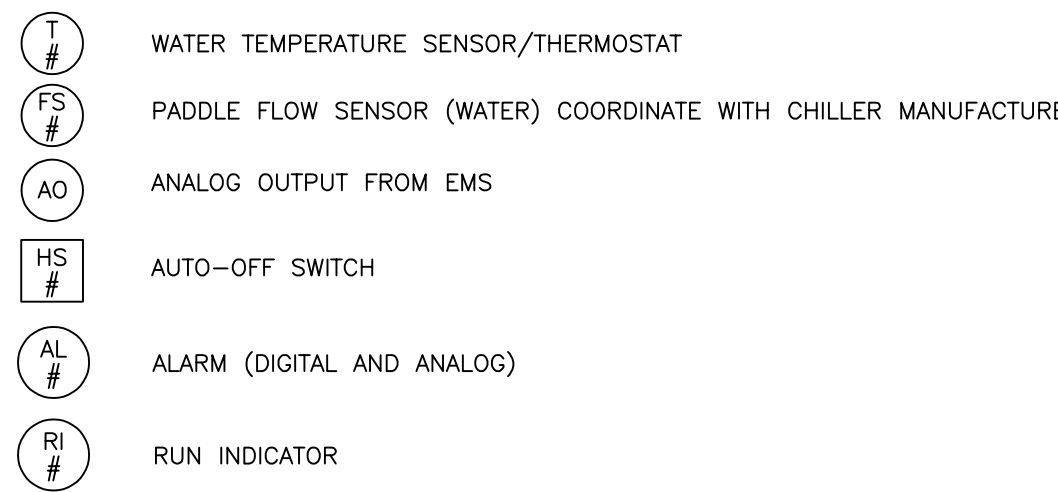


3RD FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"

HVAC SYMBOLS LEGEND



CONTROLS LEGEND



CHILLER PIPING & CONTROLS DETAIL
NO SCALE

NORTH ARROW

CONSULTANTS

REVISIONS

PROJECT PHASE

BID SET

PROJECT NUMBER

02023.03

PROJECT NAME/LOCATION

WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT

9-11 LINCOLN SQUARE
WORCESTER, MA 01608

DRAWING TITLE

DEMO & PROPOSED
3RD FLOOR HVAC PLAN,
SCHEDULES & DETAILS

MVG
MOUNT VERNON GROUP
ARCHITECTS
178 Albion Street
Suite 240
Wakefield, Massachusetts 01880

781 213 5030 T
781 213 5040 F
info@mvgarchitects.com E

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DRAWING INFORMATION

SCALE AS NOTED

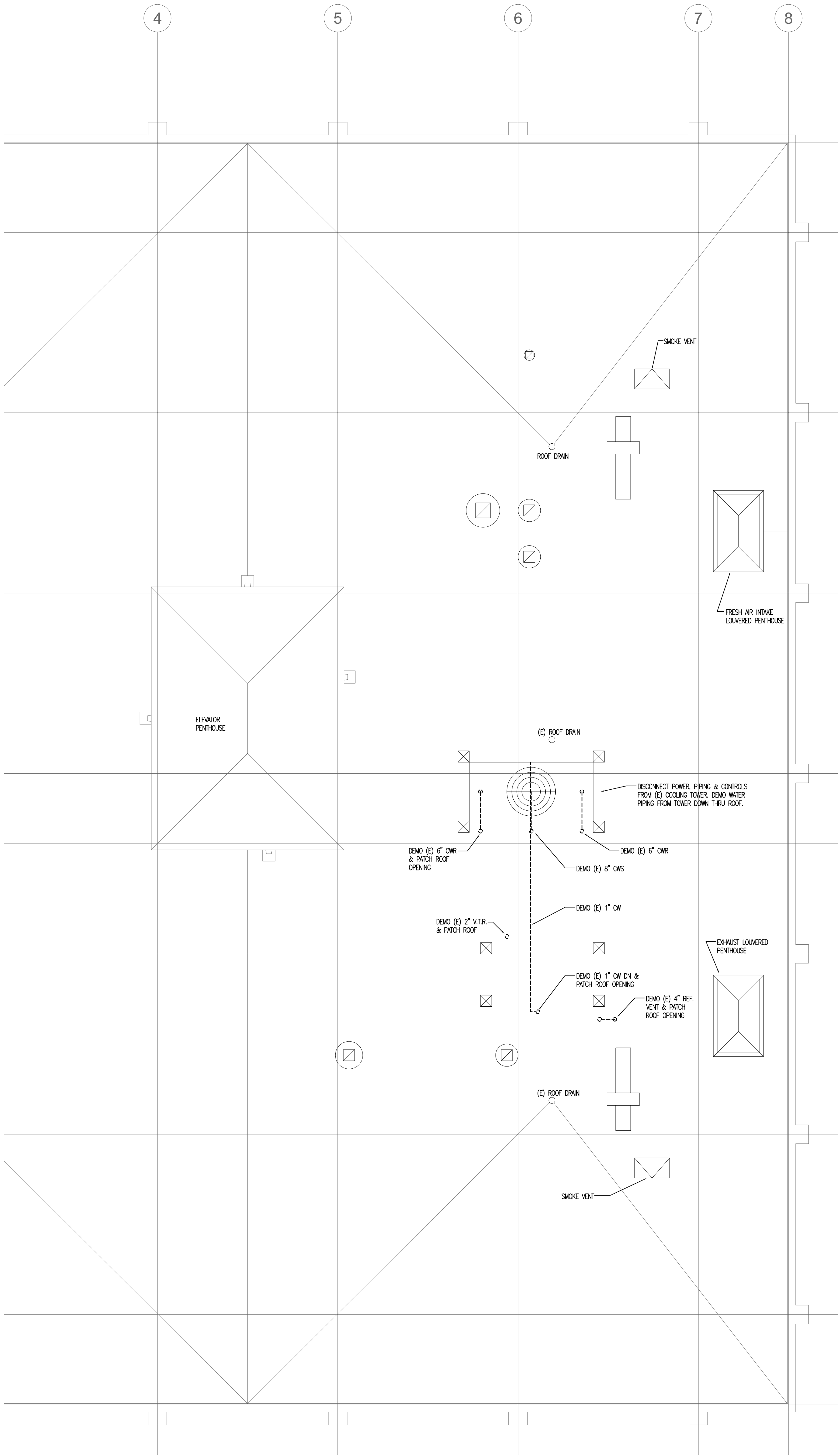
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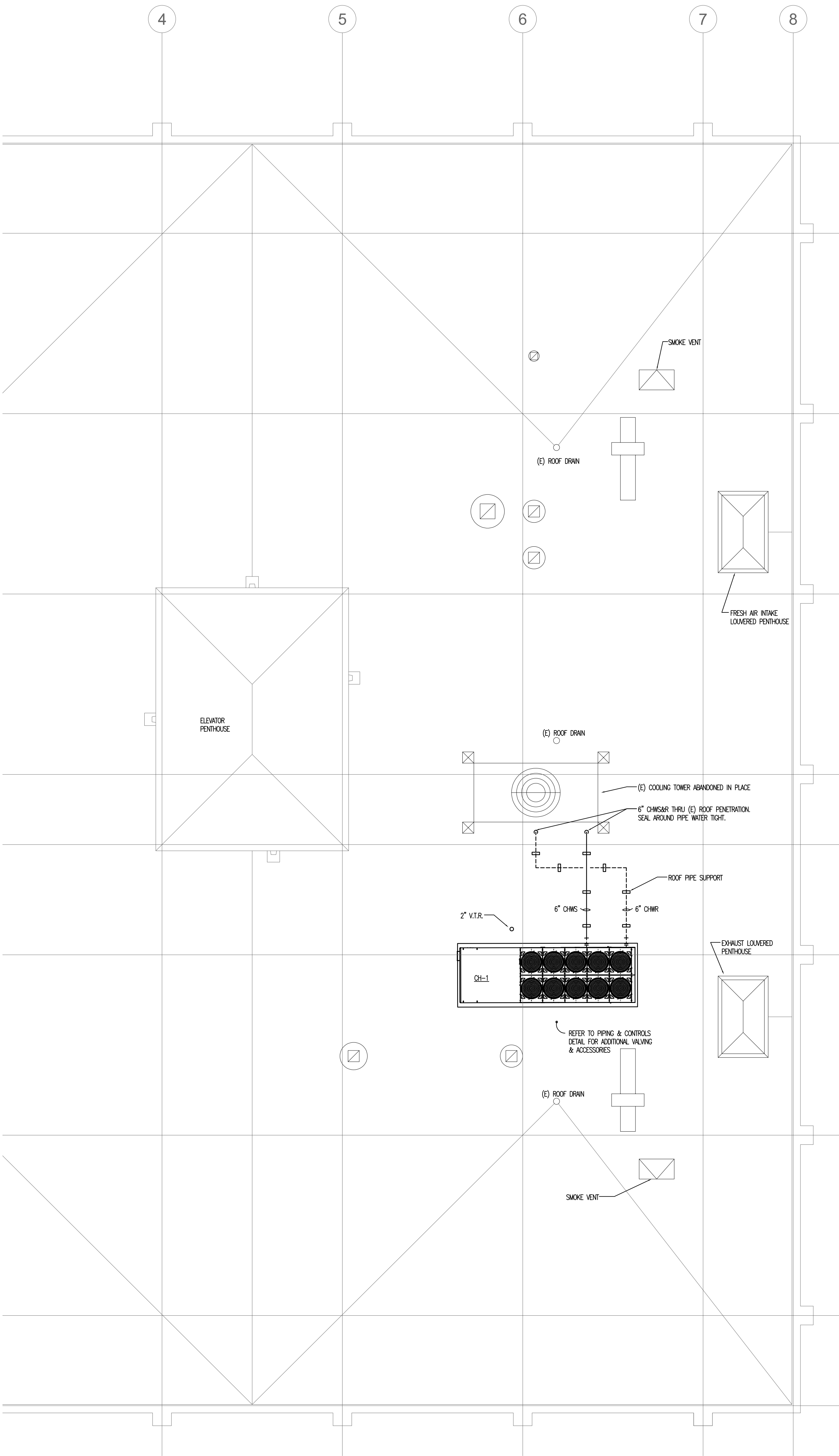
DATE MAY 24, 2023

DRAWING NUMBER

H-1



ROOF DEMO HVAC PLAN
SCALE: 1/8" = 1'-0"



ROOF HVAC PLAN
SCALE: 1/8" = 1'-0"

NORTH ARROW

CONSULTANTS

REVISIONS

PROJECT PHASE

BID SET

PROJECT NUMBER

02023.03

PROJECT NAME/LOCATION

WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT

9-11 LINCOLN SQUARE
WORCESTER, MA 01608

DRAWING TITLE

DEMO & PROPOSED
ROOF HVAC PLAN

MVG
MOUNT VERNON GROUP
ARCHITECTS
178 Albion Street
Suite 240
Wakefield, Massachusetts 01880
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781 213 5040 F
info@mvgarchitects.com E

STAMP

DRAWING INFORMATION

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

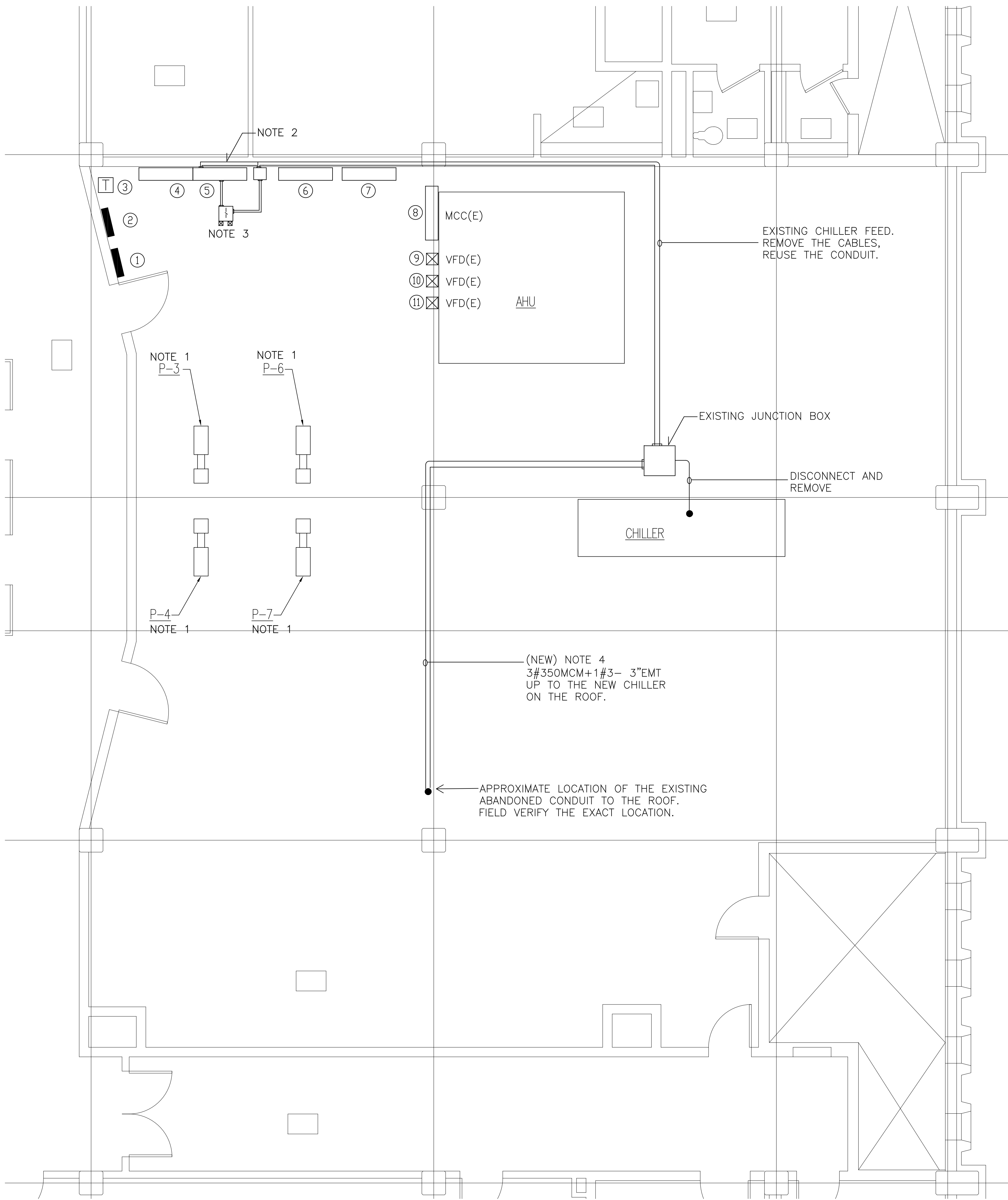
DRAWN BY: MVS

CHECKED: KRS

DATE: MAY 24, 2023

DRAWING NUMBER

H-2



THIRD FLOOR PLAN - POWER
Scale: 1/4"=1'-0"

ELECTRICAL EQUIPMENT LEGEND

- ① PANEL CD3 (FPE) 100A MLO 120/208V 3PHASE 4W
- ② PANEL M31 (FPE) 30A MCB 120/208V 3PHASE 4W
- ③ 9KVA TRANSFORMER 480V DELTA- 120/208V WYE
- ④ PANEL MP3-1A (FPE) 1000A MLO 277/480V 3PHASE 4W
- ⑤ PANEL MP3-1B (FPE) SECTION 2 277/480V 3PHASE 4W. SEE NOTE 2
- ⑥ ELECTRIC DUCT HEATER PANEL 480V, 3PHASE, 3W. FED TO MP3-1A
- ⑦ HVAC CONTROL PANEL
- ⑧ MOTOR CONTROL CENTER. FED TO MP3-1B
- ⑨ VFD
- ⑩ VFD ROOF AHU
- ⑪ VFD RA12

NOTE 1:
DISCONNECT AND REMOVE THE EXISTING PUMP ELECTRICAL FEEDS IN THEIR ENTIRETY BACK TO THE MOTOR CONTROL CENTER (MCC). LABEL THE CIRCUITS AS SPARE.

NOTE 2:
DISCONNECT AND REMOVE THE EXISTING 300A-480V-3 POLE CIRCUIT BREAKER IN PANEL MP3-1B DEDICATED FOR THE CHILLER. INSTALL A BLANK COVER PLATE OVER THE BREAKER BEING REMOVED.

NOTE 3:
FURNISH AND INSTALL A NEW 300A MCB-480V-3 POLE DISCONNECT SWITCH IN FRONT OF THE EXISTING PANEL MP3-1B. INSTALL ON A UNI-STRUT SUPPORT. INSTALL 3#350MCM THW (CU) + 1#3 THW (CU) CONDUCTORS IN A 3" EMT CONDUIT TO THE NEW DISCONNECT SWITCH. TAP THE LOAD SIDE OF THE EXISTING PANEL BUSSING. DISCONNECT AND REMOVE THE EXISTING BRANCH FEEDER FROM PANEL MP3-1B TO THE EXISTING CHILLER BEING ABANDONED. FROM THE NEW DISCONNECT INSTALL 3#350MCM THW(CU) + 1#3 THW (CU) IN A 3" EMT CONDUIT UP TO THE NEW ROOFTOP CHILLER.

NORTH ARROW

CONSULTANTS

SHEPHERD ENGINEERING, INC.
ELECTRICAL CONSULTANTS
1300 GARDEN STREET
WORCESTER, MASSACHUSETTS 01604
PHONE: (508) 753-1793 • FAX: (508) 753-2309
REFERENCE NO.: E2312

REVISIONS

PROJECT PHASE

BID SET

PROJECT NUMBER

02023.03

PROJECT NAME/LOCATION

**WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT**

9-11 LINCOLN SQUARE
WORCESTER, MA 01608

DRAWING TITLE

**THIRD FLOOR PLAN
POWER**

MVG
MOUNT VERNON GROUP
ARCHITECTS

178 Albion Street
Suite 240
Wakefield, Massachusetts 01880

781 213 5030 T
781 213 5040 F
info@mvgarchitects.com E

STAMP

DRAWING INFORMATION

SCALE 1/8" = 1'-0"

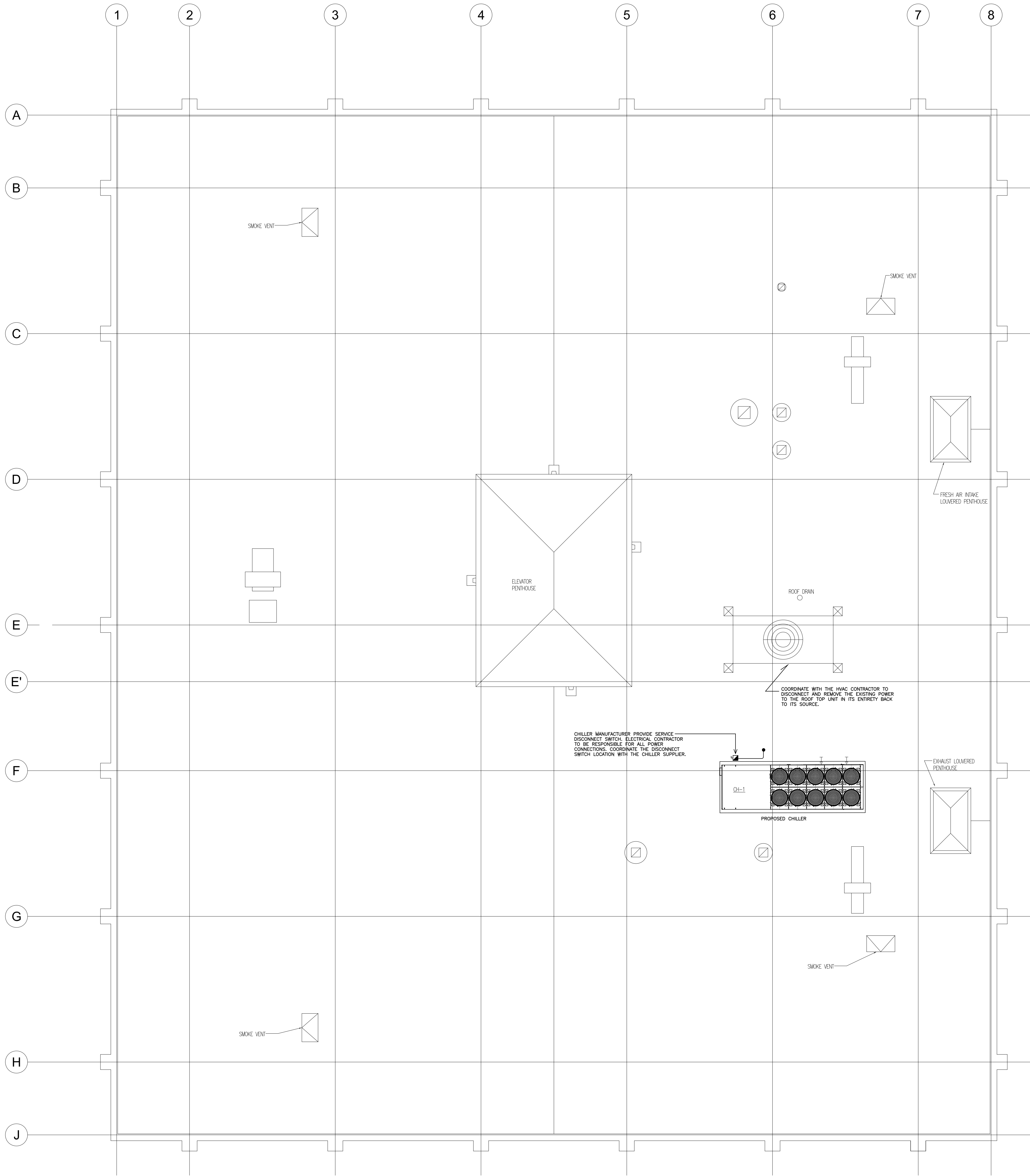
DRAWN BY AJV

CHECKED JDS

DATE MAY 30, 2023

DRAWING NUMBER

E1.1



ROOF PLAN - POWER
Scale: 1/8"=1'-0"

NORTH ARROW

CONSULTANTS

SHEPHERD ENGINEERING, INC.
ELECTRICAL CONSULTANTS
1308 GARDEN STREET
WORCESTER, MASSACHUSETTS 01604
PHONE: (508) 753-1793 • FAX: (508) 753-2309
REFERENCE NO.: E2312

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT PHASE

BID SET

PROJECT NUMBER

02023.03

PROJECT NAME/LOCATION

WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT

9-11 LINCOLN SQUARE
WORCESTER, MA 01608

DRAWING TITLE

ROOF PLAN
POWER



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STAMP

DRAWING INFORMATION

SCALE 1/8" = 1'-0"

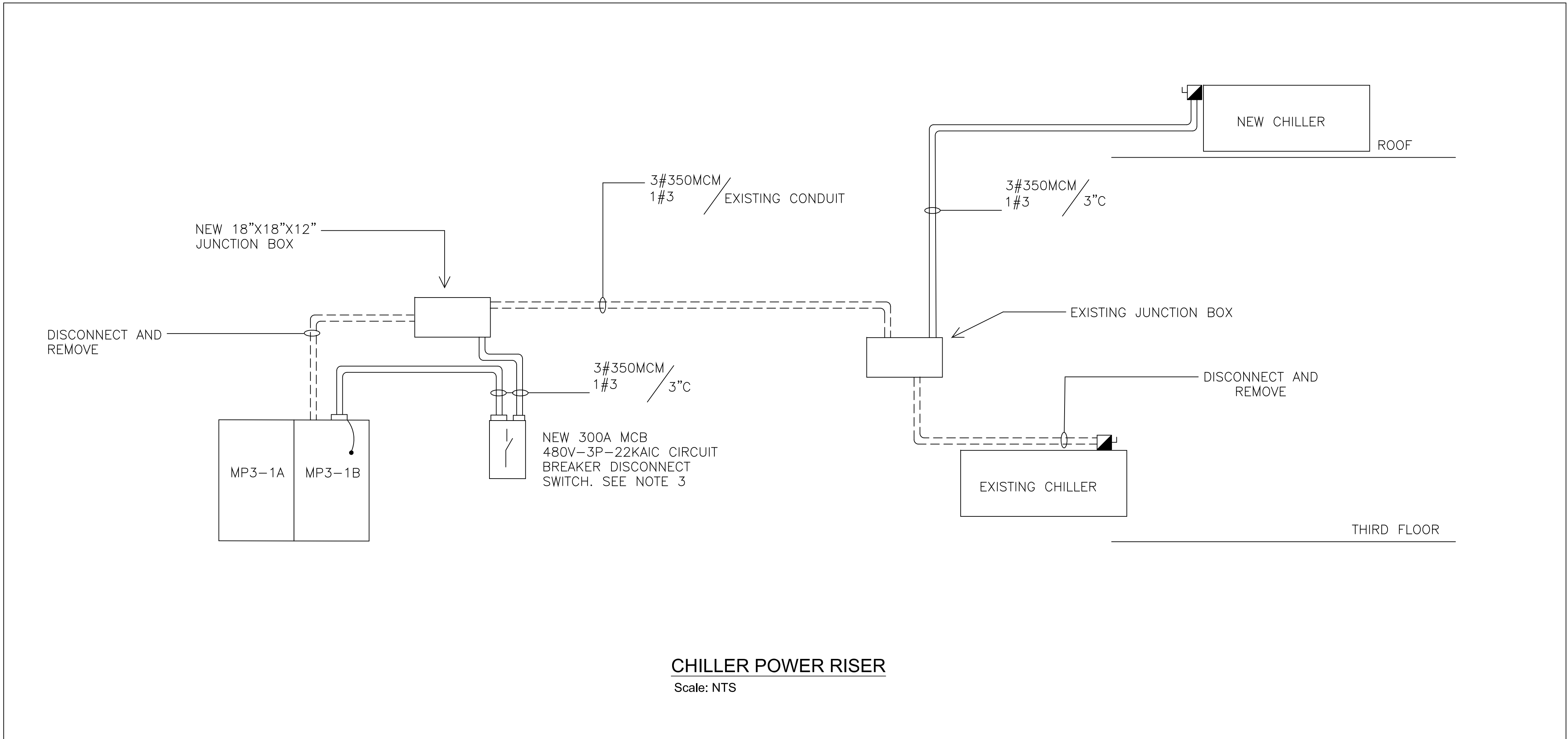
DRAWN BY AJV

CHECKED JDS

DATE MAY 30, 2023


DRAWING NUMBER

E2.1



NORTH ARROW

CONSULTANTS


SHEPHERD ENGINEERING, INC.
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PHONE: (508) 753-1793 • FAX: (508) 753-2309
REFERENCE NO.: E3012

REVISIONS

PROJECT PHASE

BID SET

PROJECT NUMBER

02023.03

PROJECT NAME/LOCATION

**WORCESTER
POLICE
HEADQUARTERS
TEMP. CHILLER
REPLACEMENT**

9-11 LINCOLN SQUARE
WORCESTER, MA 01608

DRAWING TITLE

LEGENDS AND SCHEDULES


MOUNT VERNON GROUP
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STAMP

DRAWING INFORMATION

SCALE 1/8" = 1'-0"

DRAWN BY AJV

CHECKED JDS

DATE MAY 30, 2023

DRAWING NUMBER

E3.1