# WORCESTER FIRE STATION No.2 SOUTH DIVISION BUILDING RENOVATION

180 SOUTHBRIDGE ST. WORCESTER, MA 01608



**OWNER** 

# CITY OF WORCESTER

WORCESTER, MA

455 Main Street, Worcester, MA 01608

# **ARCHITECT**



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FIRE PROTECTION
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22 West Street, Unit C
Millbury, MA 01527
(508) 865-1400

# SYMBOLS:

	ACOUSTICAL TILE		FACE BRICK		ROUGH LUMBER
	ALUMINUM	///	GLASS (ELEVATION INDICATION)		SHEET METAL (ELEVATION INDICATION)
	BRASS / BRONZE		GLAZED BRICK		SHINGLE / SIDING (ELEVATION INDICATION)
	BRICK (ELEVATION INDICATION)	3 > 3 >	GYPSUM BOARD GYPSUM LATH, MASONITE &		STEEL /OTHER METALS
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	CARPET & PAD		INSULATION (BATT / LOOSE FILL)		STRUCTURAL GLAZED TILE
	CERAMIC TILE		MASONRY BLOCK		WOOD STUD PARTITION
	CERAMIC TILE (ELEVATION INDICATION)		METAL LATH & PLASTER		HARDWOOD
	CONCRETE		METAL STUD PARTITION	7 7	MEDIUM DENSITY FIBERBOARD
	CONCRETE / PLASTER (ELEVATION INDICATION)		NEW CONC SLAB PATCH		PLYWOOD
	EARTH / COMPACT FILL		PLASTIC		RIGID INSULATION

FLUOR.

GR.

G.S.U.

G.W.B.

FIRE PROOFING

FEET/FOOT

**SQUARE FEE** 

**CUBIC FEET** 

**GALVANIZED** 

**GRADE** 

**HANDICAP** 

**HANDICAP** 

HIGH DENSIT

HOLLOW META

HEATING, VENTILATING

& AIR CONDITIONING

**HORIZONTAI** 

INCH, INCHES

**CUBIC INCHES** 

INCANDESCEN<sup>-</sup>

INFILTRATION INSULATION

POUND

LGTH.

L.G.M.F.

LI.WT.

LVR.

LEAD COATED

LIMIT OF WORK

LOW POINT

LOUVER

LIGHT WEIGHT

LAMINATED DRYWALL PART

LIGHT GAGE METAL FRAMING

RAD. ENCL.

REINF.

REFIG.

RADIATOR ENCLOSURE

**ROOF DRAIN** 

REINFORCING

REFRIGERATOR

**SQUARE INCHES** 

**GENERAL CONTRACTOR** 

GYPSUM WALLBOARD

GLAZED STRUCTURAL UNIT

FRAMED OPENING

# **ABBREVIATIONS:**

A.D. ADJ. AFF ALU. ALUM.	ACOUSTICAL AREA DRAIN ADJUSTABLE ABOVE FINISHED FLOOR ALUMINUM ALUMINUM ANCHOR APPROXIMATELY	CONTR. CORR. C.R. CRS. CSK. CTOP CU. C.U.H.	CONTRACTOR CORRIDOR COLD ROLLED COURSES COUNTERSINK COUNTERTOP CUBIC CABINET UNIT HEATER
LKG. M. OT. .O.B. .O.P.	BLOCK BLOCKING BEAM BOTTOM BOTTOM OF BEAM BOTTOM OF PIPES	D.A. D.A.F.S.  DET. D.F. DN. DO. D.O. DSP. D.W. DWG.	DOUBLE ACTING DIRECT APPLIED FINISH SYSTEM DETAIL DRINKING FOUNTAIN DOWN DITTO (REPEAT) DOOR OPENING DISPENSER DRY WALL DRAWING
G AB. B. ER./C.T. G. J. LG. LKG. LR. LOS.	CORNER GUARD CABINET CHALK BOARD CEMENT CERAMIC TILE CORNER GUARD CAST IRON CAST IN PLACE CONTROL JOINT CEILING CHALKING CLEAR CLOSET CONC. MASONRY UNIT	EA. ED. EDSP. E.J. EL. ELEC. ELEV. EQ. E.S. E.T.R. EXH. EXIST. EXP. EXT. EXT.	EXPANSION JOINT ELEVATION (GRADE) ELECTRICAL ELEVATION (FACADE)
.O. OL. ONC. .H.P. OND. ONST. ONT.	CLEAR OPENING COLUMN CONCRETE CONC. HOUSEKEEPING PAD CONDITION CONSTRUCTION CONTINUOUS	F.C.P. F.D.C. F.D.V.C. FB. F.C. F.D. F.E. F.E.	FIBER CEMENT PANEL FIRE DEPT. CONNECTION FIRE DEPT. VALVE FIRE DEPT. VALVE CABINET FLAT BAR FIRE CODE FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FACTORY FINISH

F.H.

FLAT HEAD

**FLOOR** 

FIRE HOSE CABINET

**RESIL** RESILIENT RETAINING **MECHANICAL** RAIN WATER LEADER METAL DOOR RESILIENT BASE **MANUFACTURER MISCELLANEOUS** SECT. MOLDING MASONRY OPENING METAL THRESHOLD SILICON IMPREGNATED YD. GYPSUM SHEATHING MOUNTED MISC. METAL CONTRACTOR SLID. **SLIDING** SPEC. **SPECIFICATIONS SQUARE** SQ. NONCORROSIVE STORAGE STOR. NOT IN CONTRACT STRUCTURAL TUBE S.S. STAINLESS STEEL STD. ON CENTER **STRUCTURAL OUTSIDE DIAMETER** SUSP. OPNG. TACK BOARD TELEPHONE TERRAZZO **TONGUE & GROOVE** PERP. PERPENDICULAR (TO) THK. PLASTIC LAMINATE THRESHOLD PLASTER PLAS. TOP OF BLOCKING TOP OF CONCRETE PLYWD. TOP OF STEEL TOP OF WALL TYPICAL TOWER PRESSURE TREATED **UNDERWRITERS LABORATORY** U.O.N. UNLESS OTHERWISE NOTED

U.P.R.

VENT.

VERT.

VEST.

**UNIT VENTILATOR** 

VENTILATOR

VERTICAL

**VESTIBULE** 

VINYL WALL COVERING

**EXISTING COLUMN NAME** 

SECTION IDENTIFICATION

WALL SECTION:

BUILDING SECTION:

SHEET WHERE SECTION IS DRAWN

ROOM IDENTIFICATION:

PROPERTY LINES, MATCH LINES

NEW VERTICAL ELEVATION:

ELEVATION IDENTIFICATION

FLOOR/LEVEL IDENTIFICATION

SECTION IDENTIFICATION

ROOM NAME

103 A FIN. LEGEND

# **DRAWING LIST:**

## ARCHITECTURAL

COVER SHEET

A1.01 EXISTING/DEMOLITION FLOOR PLANS & ELEVATION, DEMO NOTES, PART FLOOR PLANS & ELEVATION, DOOR INFO & NEW WORK NOTES

#### STRUCTUR

S1.01 GENERAL NOTES, PART. PLANS, & DETAILS

#### **MECHANICAL**

M-1 PARTIAL FIRST FLOOR DEMO & PROPOSED MECHANICAL PLANS
 M-2 PARTIAL SECOND FLOOR DEMO & PROPOSED MECHANICAL PLANS & DETAILS

#### **ELECTRICAL**

SHEET WHERE ELEVATION IS

1 HR SEPARATION WALL

DETAIL IDENTIFICATION

**EXISITNG VERTICAL ELEVATION** 

FLOOR/LEVEL IDENTIFICATION

WIDE, WIDE FLANGE

WINDOW DIMENSION

WINDOW OPENING WATERPROOFING

WELDED WIRE MESH

**INDICATES TIMES OR BY** 

ZEE (STRUCTURAL SHAPE)

WROUGHT IRON

WATER CLOSET

**ELEVATION IDENTIFICATION** 

WITH

 $\bigwedge$  X  $\longrightarrow$  CUT ON ONE SHEET,

XX - SHOWN ON ANOTHER

E1.1 FIRST & SECOND EXISTING/PROPOSED FLOOR PLAN

PROJECT PHASE

BID SET

NORTH ARROW

CT NUMBER

PROJECT NAME/LOCATION

WORCESTER FIRE

STATION #2 SOUTH

**DIVISION BUILDING** 

02023.04

**RENOVATION** 

180 SOUTHBRIDGE ST.
WORCESTER, MA 01608

DRAWING TITLE

COVER SHEET



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DRAWING INFORMATION

SCALE AS INDICATED

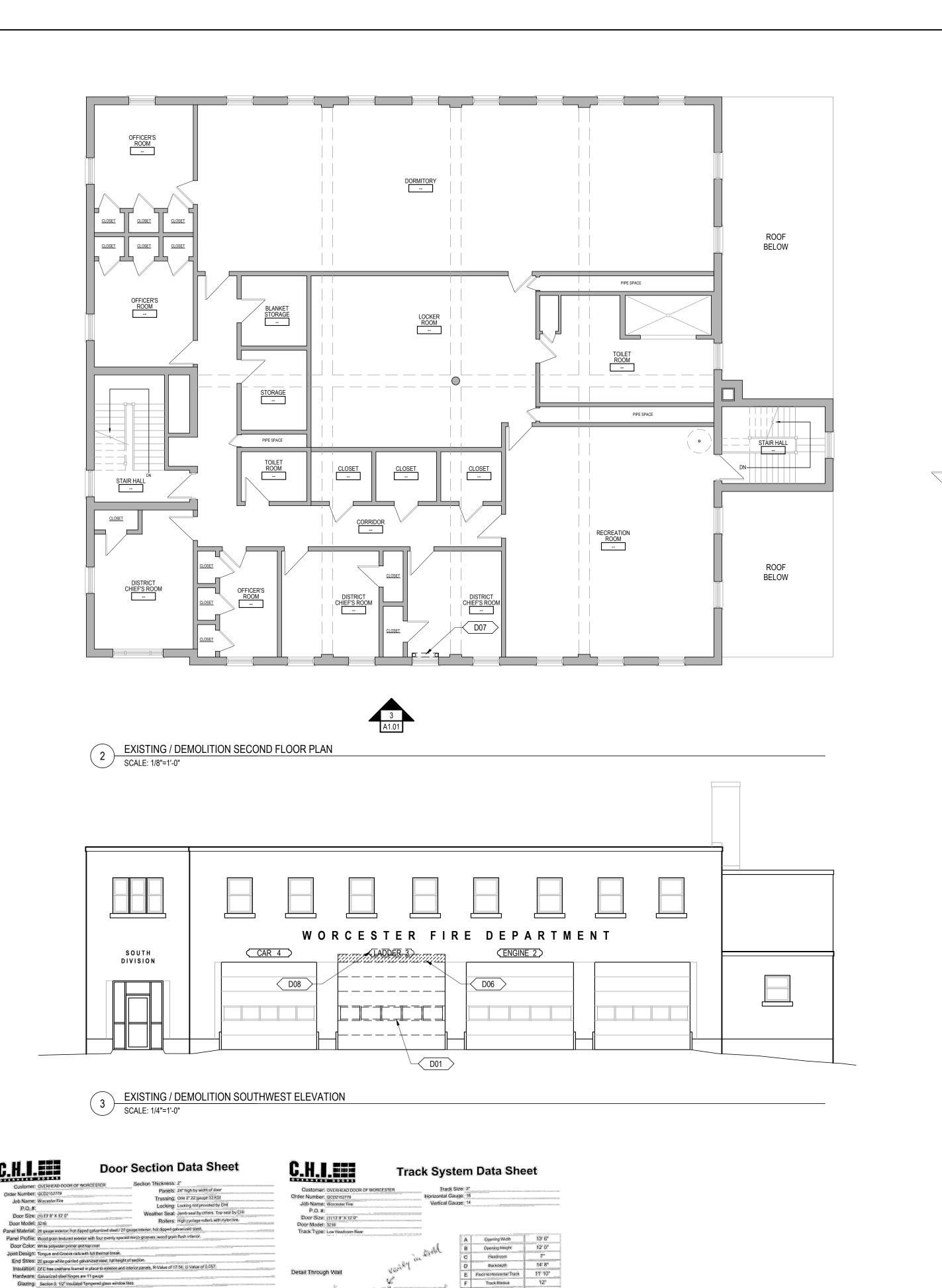
DRAWN BY AUTHOR

DATE JUNE 8, 2023

DRAWING NUMBER

A1.0

BID SET
JUNE 8, 2023



Typical Through Wood Jamb Detail

THIS INFORMATION IF FOR REFERENCE ONLY.

THE OVERHEAD DOOR HAS BEEN PURCHASED BY THE CITY OF WORCESTER. THE VENDER,

OVERHEAD DOOR COMPANY OF WORCESTER

SYSTEM AND RELOCATE EXISTING TO REMAIN

IS TO INSTALL THE OVERHEAD DOOR, TRACK

DOOR OPENER TO NEW LOCATION. GC TO

COORDINATE WITH VENDER.

// A // H

door overlaps jamb each side

SOUTH

DIVISION

PARTIAL SOUTHWEST ELEVATION

6 SCALE: 1/4"=1'-0"

Full View Material: 6063-T6 aluminum, Aluminum

Joint Detail Tongue and groove design

Hinge Detail Graduated end hinges

Bottom Seal Detail Vinyl astragal in aluminum retainer

SCALE: 1/4"=1'-0"

--- door width A / panels wide D

OVERHEAD DOOR ELEVATION & DATA SHEET FOR DOOR & TRACK

Check all dimensions and specifications, for conflicts please contact customer service

## NEW WORK KEY NOTES A01 NEW OVERHEAD DOOR & ASSOCIATED TRACK SYSTEM TO BE INSTALLED BY VENDER. GC TO

D03

EXISTING / DEMOLITION FIRST FLOOR PLAN

PIPE SPACE

WATCH ROOM

VESTIBULE --

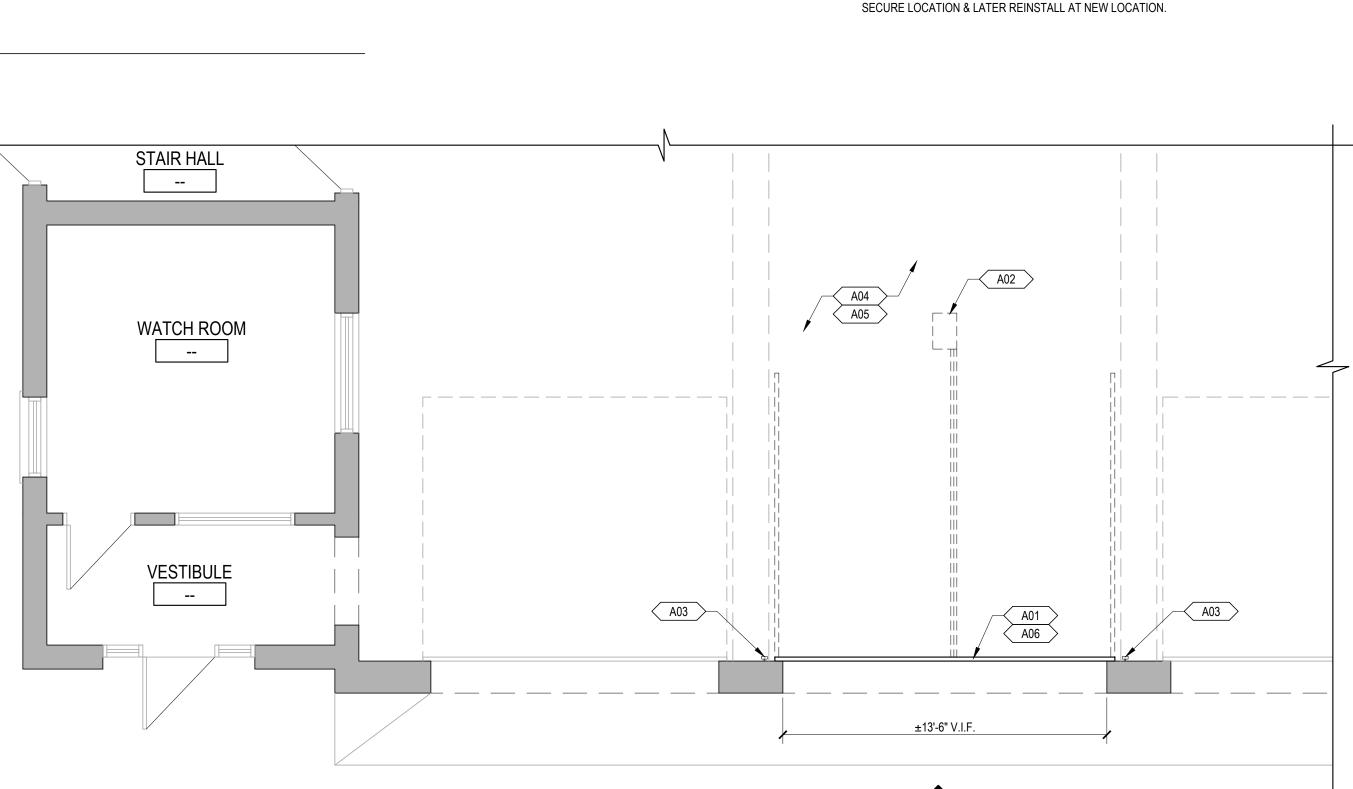
SCALE: 1/8"=1'-0"

CAR 4

- COORDINATE INSTALLATION WITH VENDER.
- A02 PROVIDE POWER TO EXISTING RELOCATED DOOR OPENER MOTOR & OPERATOR, SEE ELECTRICAL DRAWINGS.
- A03 REINSTALL EXISTING SENSING EDGE & PHOTO ELECTRIC SAFETY SENSORS.
- A04 REINSTALL EXISTING PLYMO VENT ITEMS TO RELOCATED AREAS AS REQUIRED FOR NEW WORK, SEE MECHANICAL DRAWINGS.
- A05 PROVIDE NEW REDIRECTED PIPING ABOVE AS REQUIRED FOR NEW WORK, SEE MECHANICAL DRAWINGS.
- A06 INSTALLED STEEL BEAM HEADER PER STRUCTURAL DRAWINGS. NEW PORTION OF MASONRY WALL OPENING TO BE FINISHED TO MATCH EXISTING ADJACENT WALL FINISH.
- A07 PROVIDE NEW ELECTRIC CABINET HEATER AND ASSOCIATED ITEMS, SEE MECHANICAL DRAWINGS
- A08 EXISTING "LADDER 3" SIGNAGE TO BE REINSTALLED AT NEW LOCATION SPECIFIED BY

WORCESTER FIRE

(LADDER 3)



DEMOLITION GENERAL NOTES

DRAWINGS FOR OTHER AREAS OF PATCHING, REPAIR AND INFILL.

MISCELLANEOUS BLOCKING OR INFILL TO ACCOMMODATE M / E / P WORK.

USERS DURING CONSTRUCTION.

**DEMOLITION LEGEND** 

GENERAL

DEMOLITION

EXISTING WALL TO REMAIN

# **DEMOLITION KEY NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

DETERMINE WHAT IS TO BE REMOVED OR TO REMAIN AND WILL BE RESPONSIBLE FOR REPLACEMENT IN-KIND ALL WORK INADVERTENTLY REMOVED.

EQUIPMENT AS REQUIRED TO PASS THROUGH EXISTING OPENINGS. G.C. SHALL ALSO BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF

ADJACENT WALLS, CEILINGS, FLOORS, FINISHES, CASEWORK OR MILLWORK SCHEDULED TO REMAIN. THE WORK AREA WILL BE LEFT CLEAN AND

6. PATCH AND REPAIR SCOPE OF ALL EXISTING TO REMAIN WALLS, FLOORING, AND CEILING DAMAGED DURING DEMOLITION OR REMOVAL OF EXISTING

DEPRESSIONS OR VOIDS LEFT AFTER DEMOLITION. CONTRACTOR TO PROVIDE INFILL AND PATCHING OF ALL SUCH AREAS TO MATCH EXISTING

8. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BARRICADES TO DIVIDE AREAS (CONSTRUCTION AND NORMAL USE) TO PROTECT

9. G.C. SHALL COORDINATE AND PERFORM ALL ASSOCIATED WORK WITH M / E/ P CONTRACTORS FOR ALL REQUIRED PENETRATIONS REQUIRING

DRAWINGS.

CONSTRUCTION. THIS INCLUDES PATCH & REPAIR DUE TO WORK PERFORMED BY ALL SUB-CONSTRUCTORS. REFER TO DEMO AND ARCHITECTURAL

2. THE CONTRACTOR SHALL BE AWARE OF SELECTIVE DEMOLITION AT ALL SECTIONS OF WORK, REVIEWING ALL NEW RENOVATION DETAILS TO

3. ALL REQUIRED DEMOLITION NOT SPECIFICALLY DESIGNATED AS BEING THE WORK OF OTHER TRADES SHALL BE PERFORMED BY THE GENERAL

5. THE CONTRACTOR SHALL REMOVE ITEMS TO BE DEMOLISHED AS INDICATED ON THE DRAWINGS WITH CARE BEING TAKEN NOT TO DAMAGE

7. PROVIDE SMOOTH CLEAN SURFACES PREPARED TO RECEIVE INFILL AND/OR FINISHES (AS SCHEDULED) AT ALL MISCELLANEOUS OPENINGS,

4. SUBCONTRACTORS TO RELEASE, REMOVE AND LOWER TO THE FLOOR ALL COMPONENTS, SYSTEMS AND ASSEMBLIES AS INDICATED, SPECIFIED, OR AS REQUIRED TO DO THEIR RESPECTIVE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLING / CUTTING OR OTHERWISE MODIFYING

ANY DISCREPANCIES RELATING TO THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.

D01 EXISTING OVERHEAD DOOR & ASSOCIATED TRACK SYSTEM TO BE REMOVED IN ENTIRETY. D02 EXISTING DOOR OPENER MOTOR & OPERATOR & ASSOCIATED MOUNTING BRACKETS TO BE REMOVED WITH CARE AND STORED IN SECURE LOCATION FOR LATER REUSE.

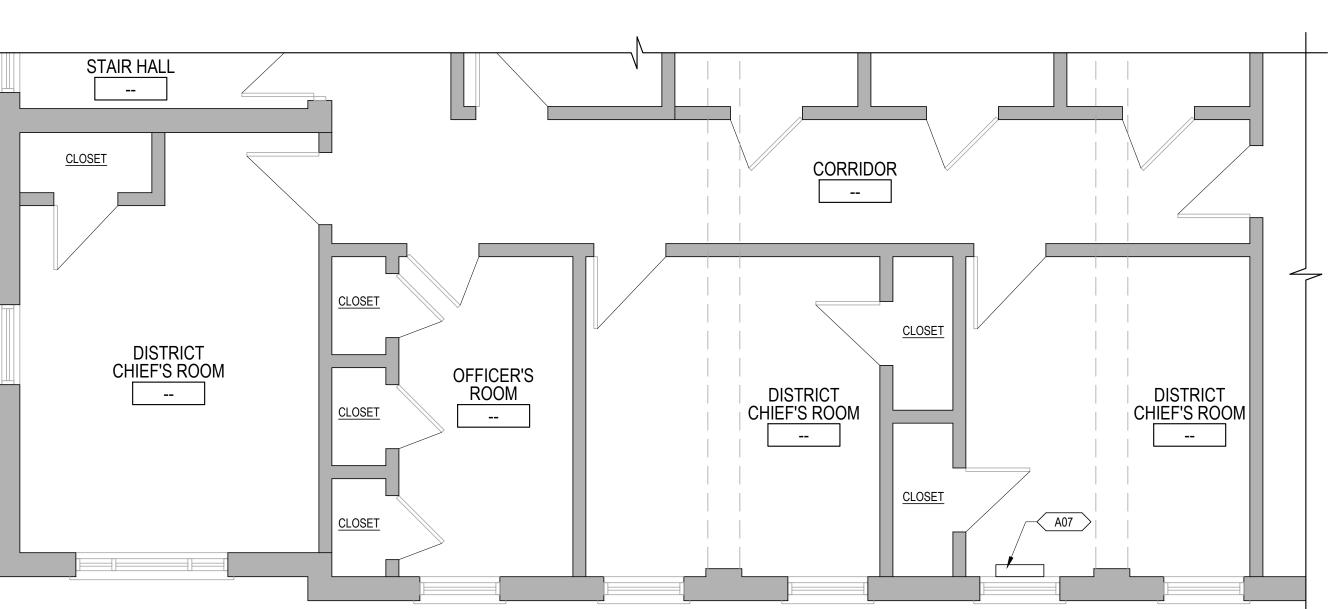
SEE SPECIFICATIONS FOR MORE INFORMATION

- D03 EXISTING SENSING EDGE & PHOTO ELECTRIC SAFETY SENSOR TO BE REMOVED AND SALVAGED WITH CARE AS REQUIRED FOR NEW WORK THEN REINSTALLED.
- D04 EXISTING PLYMO VENT ITEMS TO REMOVED AND OR RELOCATED AS REQUIRED FOR NEW WORK, SEE MECHANICAL DRAWINGS.
- D05 EXISTING PIPING ABOVE OVERHEAD DOOR TO BE REMOVED AS REQUIRED FOR NEW WORK, SEE MECHANICAL DRAWINGS.
- D06 PORTION OF EXISTING MASONRY WALL TO BE REMOVED AS INDICATED ON ELEVATION. REMOVE EXISTING WF14 STEEL BEAM HEADER WITH CARE, STORE IN SECURE LOCATION, CLEAN & PREP FOR LATER POSSIBLE REPOSITIONING & REUSE, SEE STRUCTURAL
- D07 EXISTING CONVECTOR & PIPING TO BE REMOVED, SEE MECHANICAL DRAWINGS.
- D08 EXISTING "LADDER 3" SIGNAGE TO BE REMOVED WITH CARE FOR NEW WORK, STORED IN

PARTIAL FIRST FLOOR PLAN SCALE: 1/4"=1'-0"

HEATER ROOM

STAIR HALL



PARTIAL SECOND FLOOR PLAN

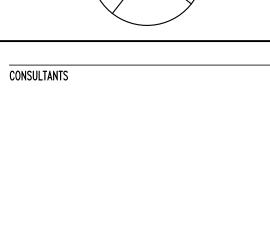
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DRAWING INFORMATION CHECKED JUNE 8, 2023

DRAWING NUMBER A1.01



NORTH ARROW

REVISIONS

PROJECT PHASE

PROJECT NUMBER

DRAWING TITLE

**BID SET** 

PROJECT NAME/LOCATION

WORCESTER FIRE

STATION #2 SOUTH

**DIVISION BUILDING** 

RENOVATION

180 SOUTHBRIDGE ST.

WORCESTER, MA 01608

EX./DEMO FLR PLANS &

ELEV., DEMO NOTES, PART

FLR PLANS & ELEV., DOOR

INFO & NEW WORK NOTES

02023.04



#### **GENERAL NOTES**

#### **GENERAL:**

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND NEW DOOR HEIGHT REQUIREMENTS FOR NEW FIRETRUCK.
- 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"

#### **EXISTING CONSTRUCTION:**

- 1. ALL INFORMATION RELATING TO THE EXISTING STRUCTURAL CONDITIONS HAS BEEN DERIVED FROM EXISTING STRUCTURAL DRAWINGS AND OBSERVATIONAL SITE VISITS.
- 2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND MEMBER SIZES AS INDICATED ON THE DRAWINGS, IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY BRACING AND SHORING METHODS, AS REQUIRED, TO PREVENT DANGER TO PERSONS AND PROPERTY.
- 4. ANY DIMENSION NOTED (±) ON PLAN SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR, IN THE FIELD, PRIOR TO THE SUBMISSION OF STRUCTURAL STEEL SHOP DRAWINGS.

#### **DESIGN LOADS:**

(2015 INTERNATIONAL BUILDING CODE WITH MA BUILDING CODE SUPPLEMENT, 9TH ED.)

- 1. BUILDING ROOF LOADS (PER SECTIONS 1606 THRU 1608) (UNALTERED) A. GROUND SNOW LOAD, Pg = 50 PSF (PER SECTION 1608) FLAT-ROOF SNOW LOAD, Pf = 42 PSF (MIN.) PLUS SNOWDRIFT LOADING WHERE APPLICABLE • SNOW EXPOSURE FACTOR, Ce = 1.0
  - SNOW LOAD IMPORTANCE FACTOR, Is = 1.2 THERMAL FACTOR, Ct = 1.0 B. ROOFING AND INSULATION: C. SERVICES: 5 PSF
  - D. CEILINGS (WHERE THEY OCCUR) ACTUAL WEIGHTS OF MATERIALS E. STRUCTURE:
- 2. BUILDING SECOND FLOOR LOADS (PER SECTIONS 1606 & 1607) (UNALTERED) A. LIVE LOAD: 50 PSF 3 PSF B. CEILING: 7 PSF C. SERVICES:
- **ACTUAL WEIGHTS OF MATERIALS** D. STRUCTURE: 3. WIND DESIGN (PER SECTION 1609 AND IEBC 2015) A. ULTIMATE DESIGN WIND SPEED, Vult (3-SECOND GUST) = 134 MPH
- 4. LEVEL 2 WORK ALTERATIONS NO SEISMIC UPGRADES REQUIRED.

C. RISK CATEGORY = 4

B. NOMINAL DESIGN WIND SPEED, Vasd = 104 MPH

#### **STRUCTURAL STEEL:**

#### 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

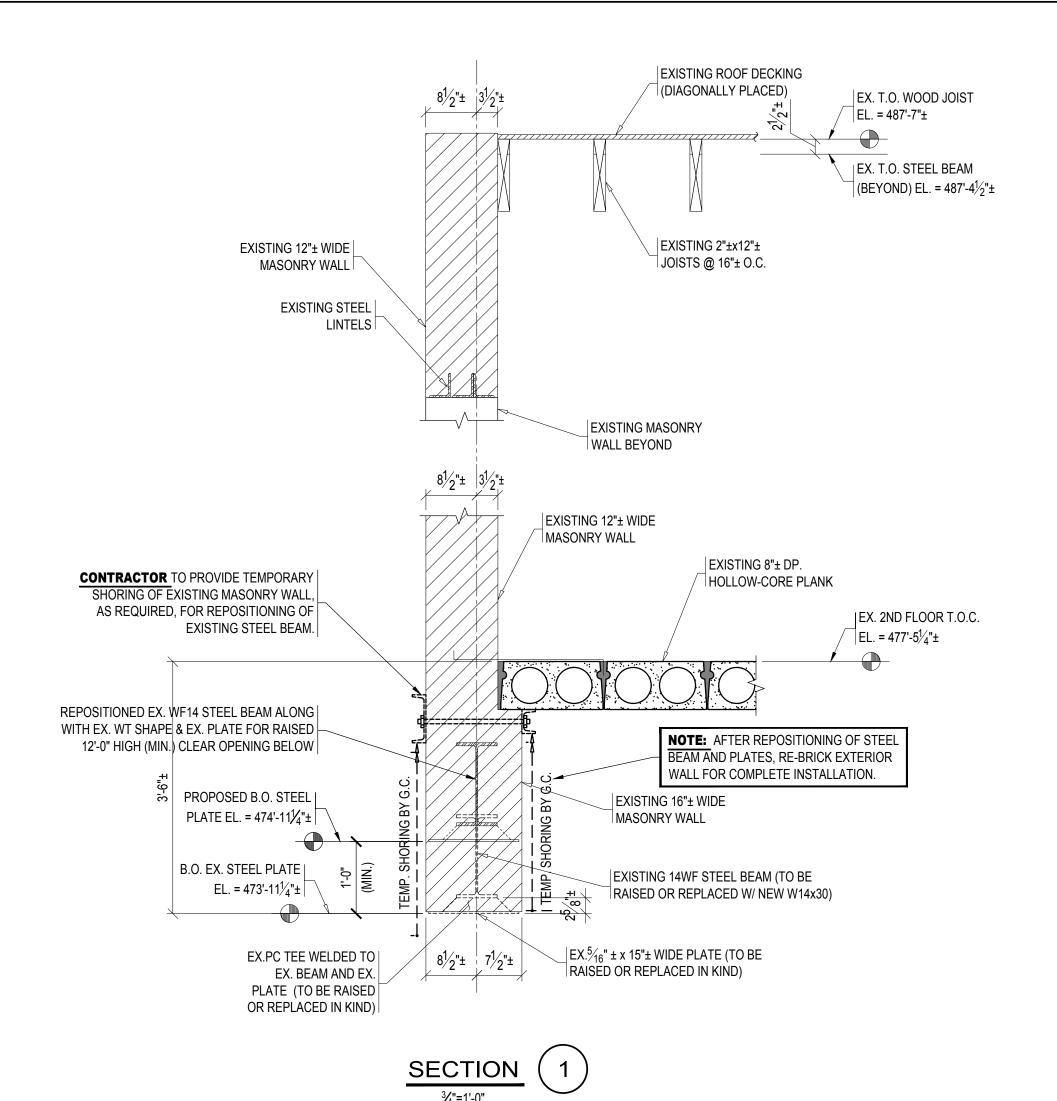
- TO THE FOLLOWING SPECIFICATIONS: • STRUCTURAL STEEL W- AND WT-SHAPES: ASTM A992 (GRADE 50) ASTM A36
- STRUCTURAL PLATES: ASTM A36 • STRUCTURAL ANGLES:
- 2. ALL STRUCTURAL STEEL SHALL BE SHOP-PRIMED.
- 3. ALL EXPOSED STRUCTURAL STEEL AND THEIR ASSOCIATED CONNECTIONS, INCLUDING ANY DUNNAGE, SCREEN SUPPORTS, 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 (2)- 3/4"Ø GRADE A325 BOLTS.

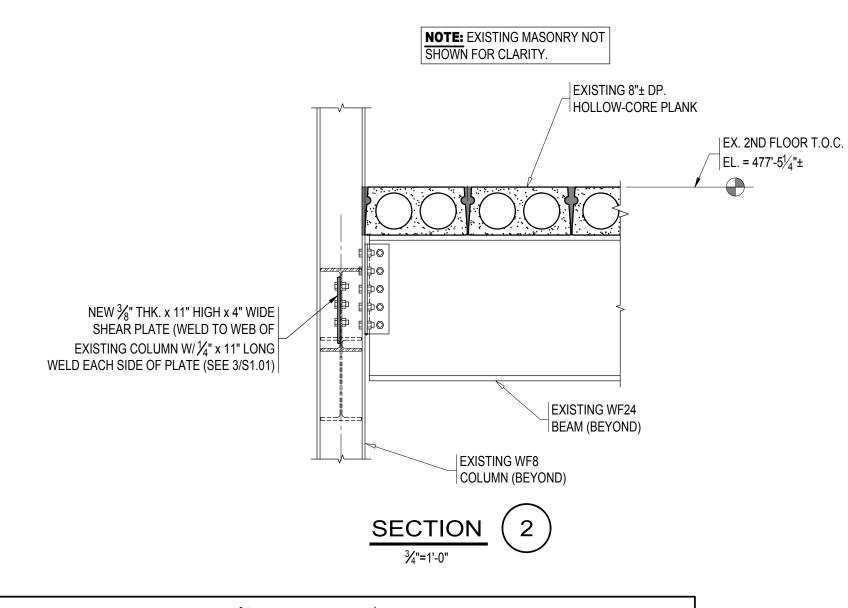
#### QUALITY ASSURANCE:

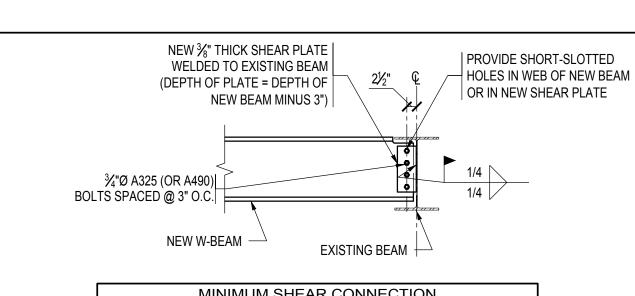
- I. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS FOR WORK SPECIFIED IN CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE, INCLUDING MASSACHUSETTS AMENDMENTS. THE TESTING AGENCY SHALL BE LICENSED IN MASSACHUSETTS 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:

#### LIST OF SPECIAL INSPECTIONS:

- A. GRADE B. PLACEMENT
- C. BOLTED AND WELDED CONNECTIONS

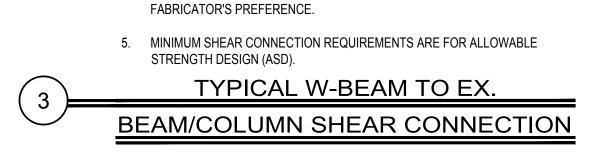


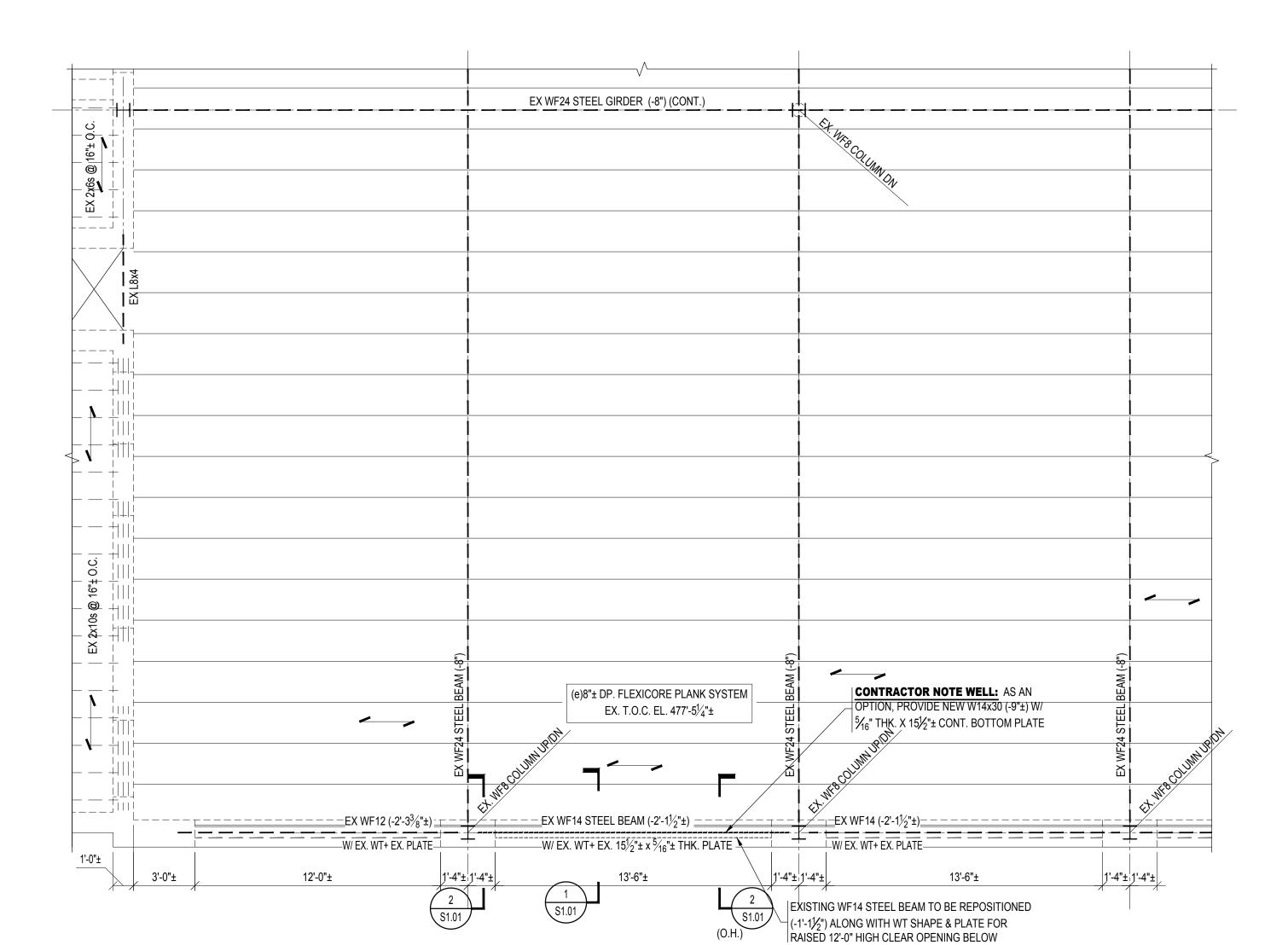




MINIMUM SHEAR CONNECTION REQUIREMENTS (ASD LOADS)				
BEAM DEPTH	MINIMUM SHEAR CAPACITY (KIPS)	MINIMUM NUMBER OF ROWS OF BOLTS	BOLT HOLE TYPE	
W10s AND LESS	16.5	2	STANDARD OR SHORT-SLOTTED	
W12s AND W14s	28.8	3	STANDARD OR SHORT-SLOTTED	

- 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 MINIMUM 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





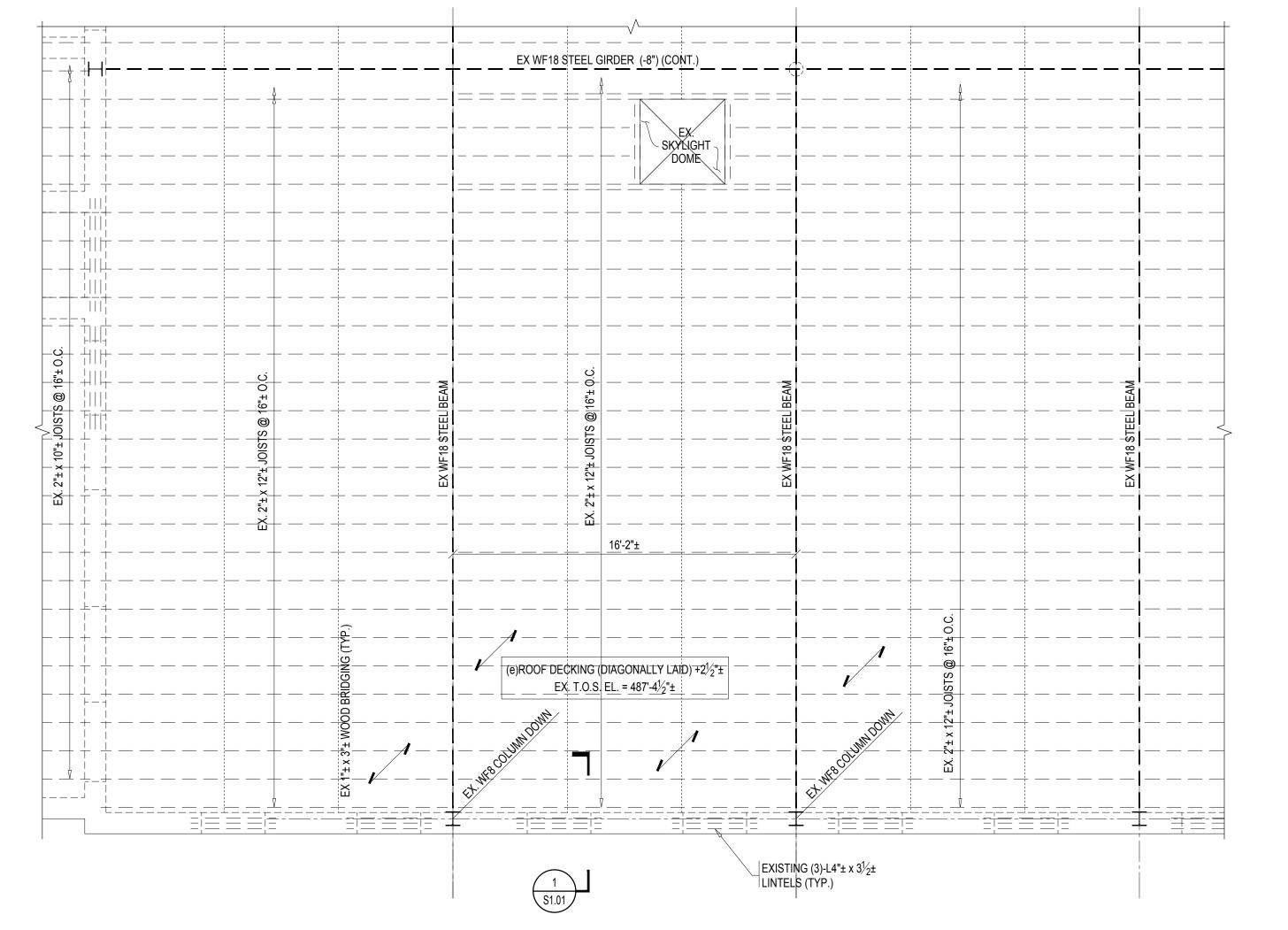
SECOND FLOOR FRAMING PLAN ½"=1'-0"

**SECOND FLOOR FRAMING PLAN NOTES:** 

1. REFER TO GENERAL NOTES ON THIS

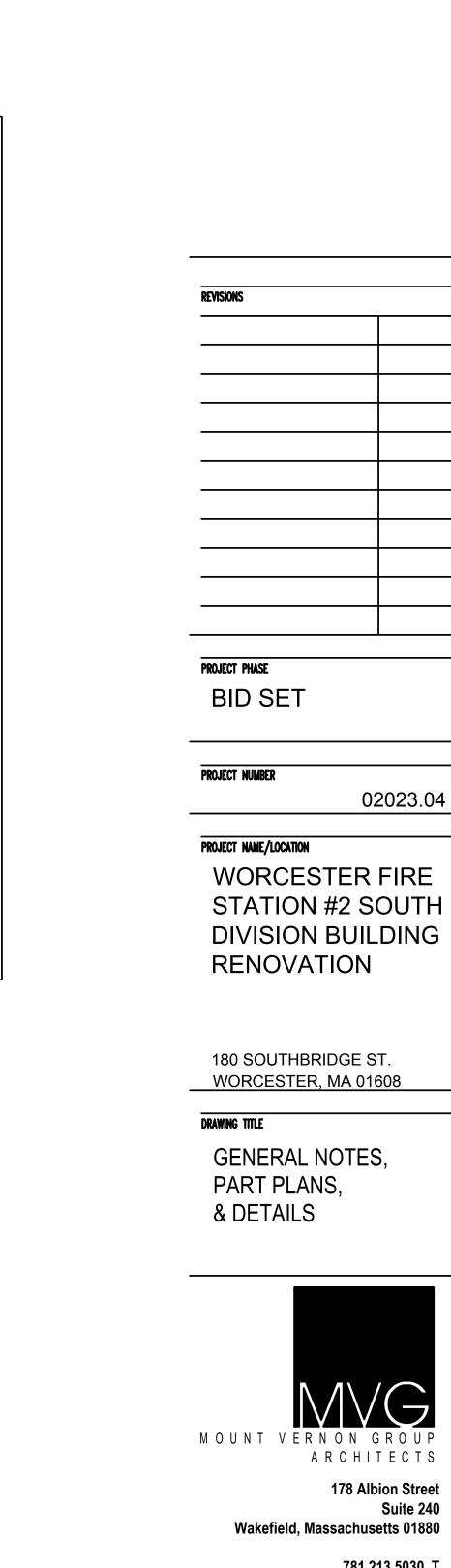
DRAWING.

- 2. IF EXISTING STEEL IS RE-USED, CLEAN THE STEEL OF LOOSE DEBRIS WITH MECHANICAL ABRASION. CONTRACTOR SHALL PROVIDE A ZINC RICH PRIMER 4-MILS MINIMUM AND BRUSH-APPLIED ALONG THE PLATE. COLOR GALV. TO BE SPECIFIED BY ARCHITECT.
- 3. REGARDLESS OF STEEL USED OR RE-USED, PROVIDE NEW 3/8" THK. SHEAR PLATES AT ENDS OF BEAM PER TYPICAL DETAIL ON THIS DRAWING.



ROOF FRAMING PLAN

1/4"=1'-0"



PART PLANS & DETAILS

180 SOUTHBRIDGE ST.

NORTH ARROW

CONSULTANTS

SOUZA, TRUE

TRUCTURAL ENGINEER

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LEXINGTON, MA 02421

(617) 926 - 6100

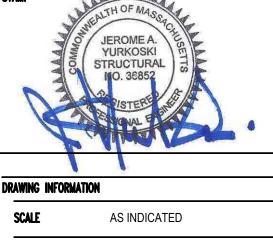
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MOUNT VERNON GROUP

02023.04

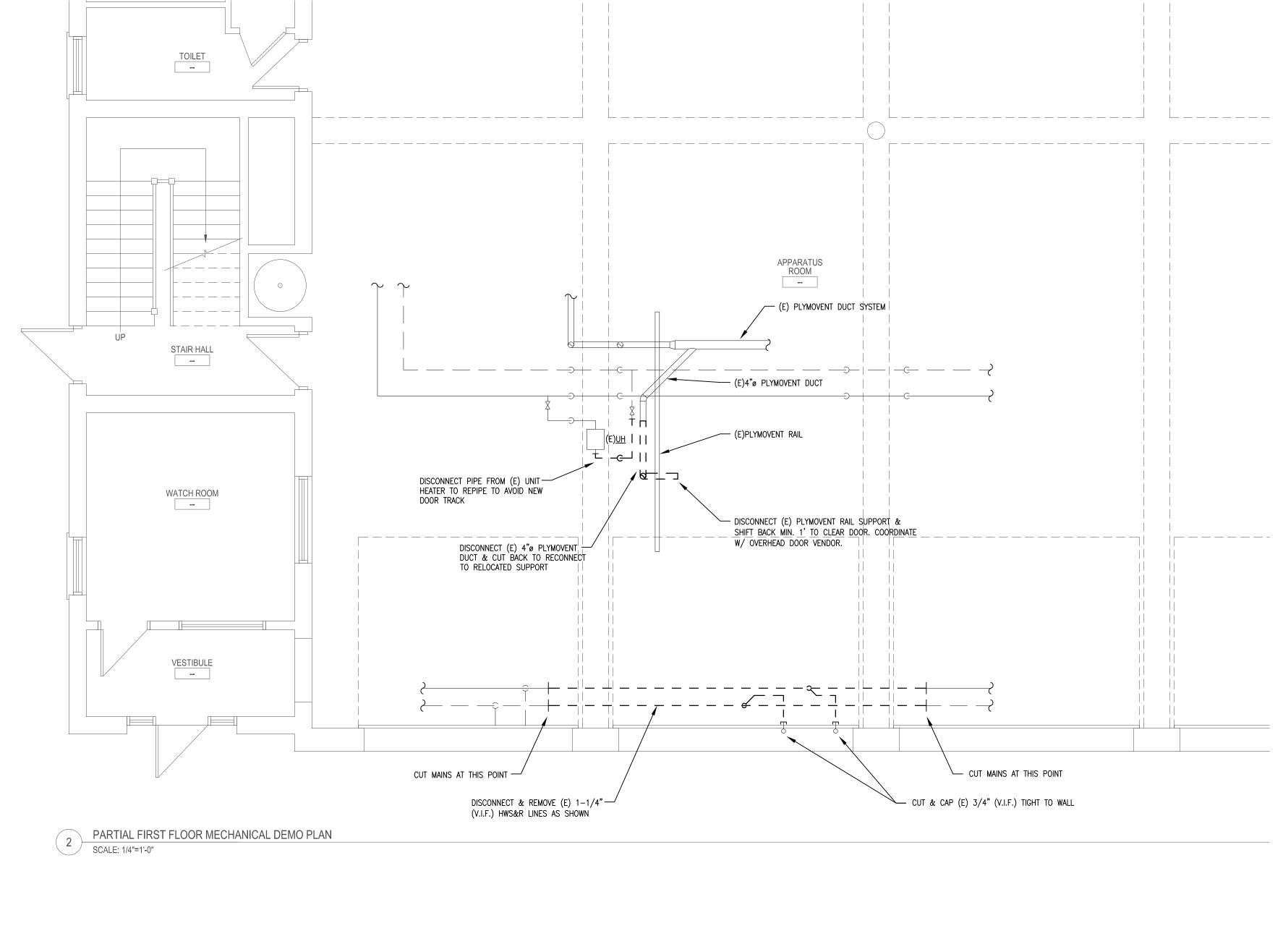
ARCHITECTS 178 Albion Street Wakefield, Massachusetts 01880

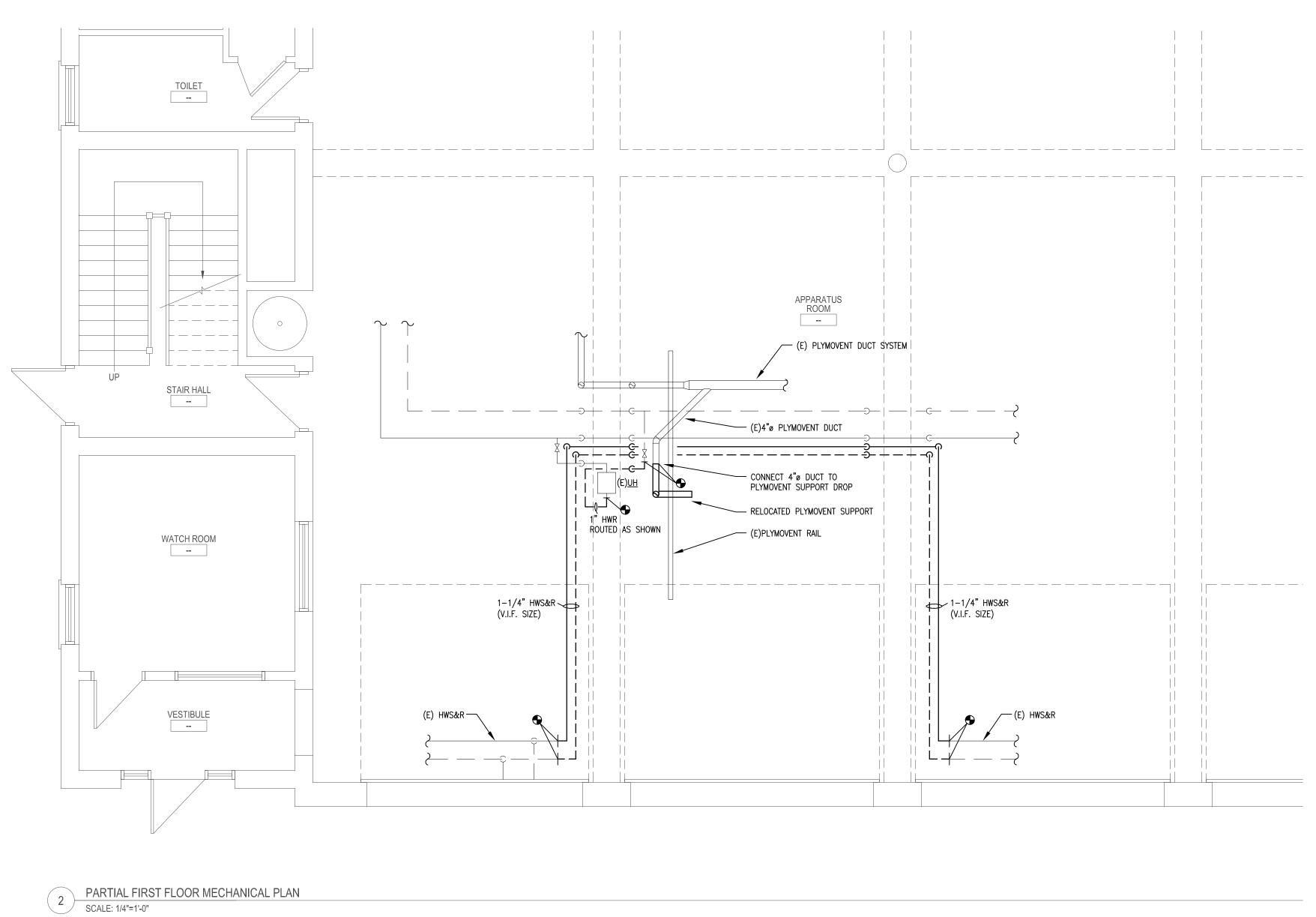
> 781 213 5030 781 213 5040 F info@mvgarchitects.com E



DRAWN BY DTP CHECKED JAY JUNE 8, 2023

DRAWING NUMBER





**/**1-1

CONSULTANTS

NORTH ARROW



PROJECT PHASE

BID SET

PROJECT NUMBER

OT NOMBER

WORCESTER FIRE
STATION #2 SOUTH
DIVISION BUILDING
RENOVATION

02023.04

180 SOUTHBRIDGE ST. WORCESTER, MA 01608

DRAWING TITLE

PARTIAL FIRST FLOOR DEMO & PROPOSED MECHANICAL PLANS

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

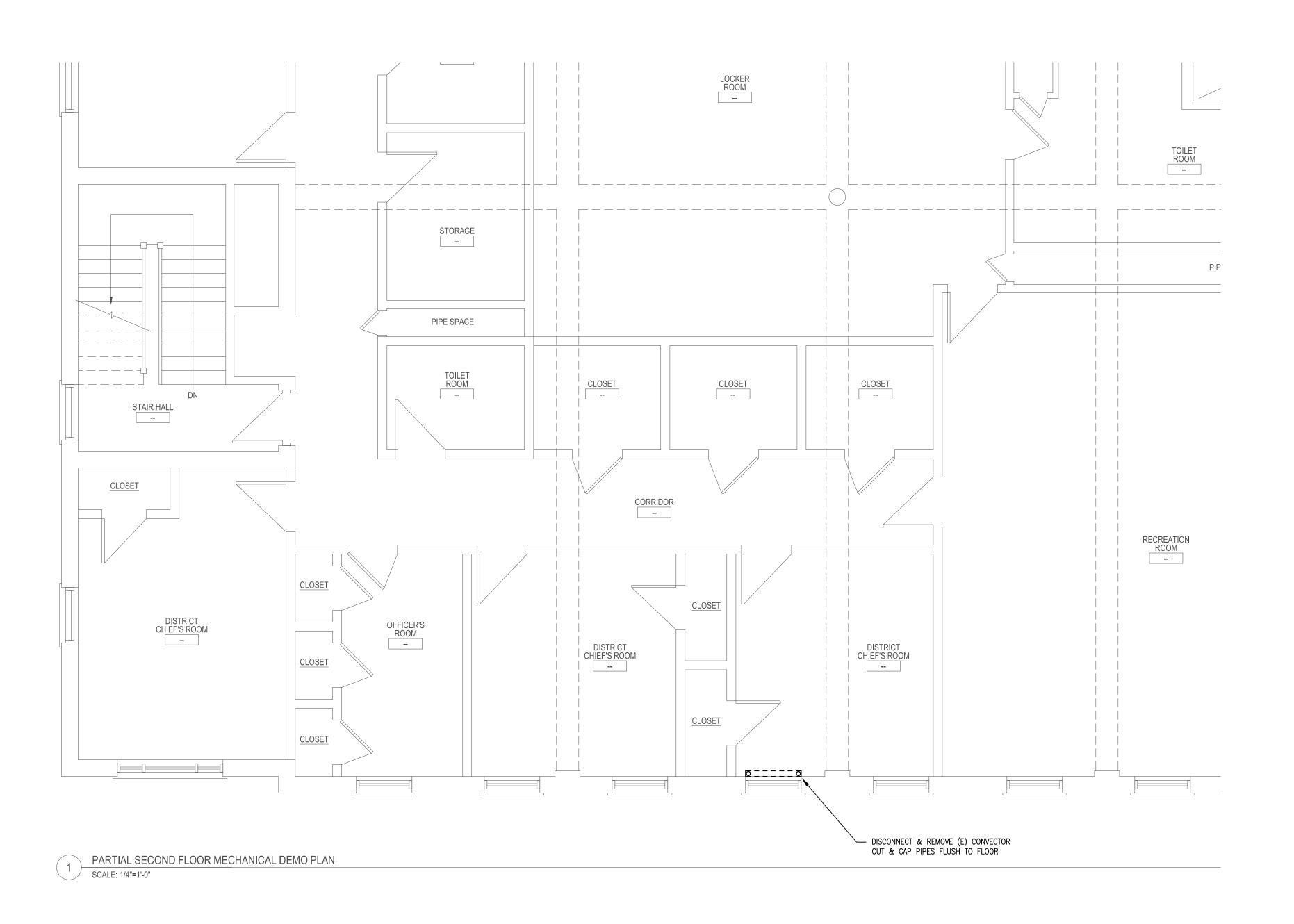
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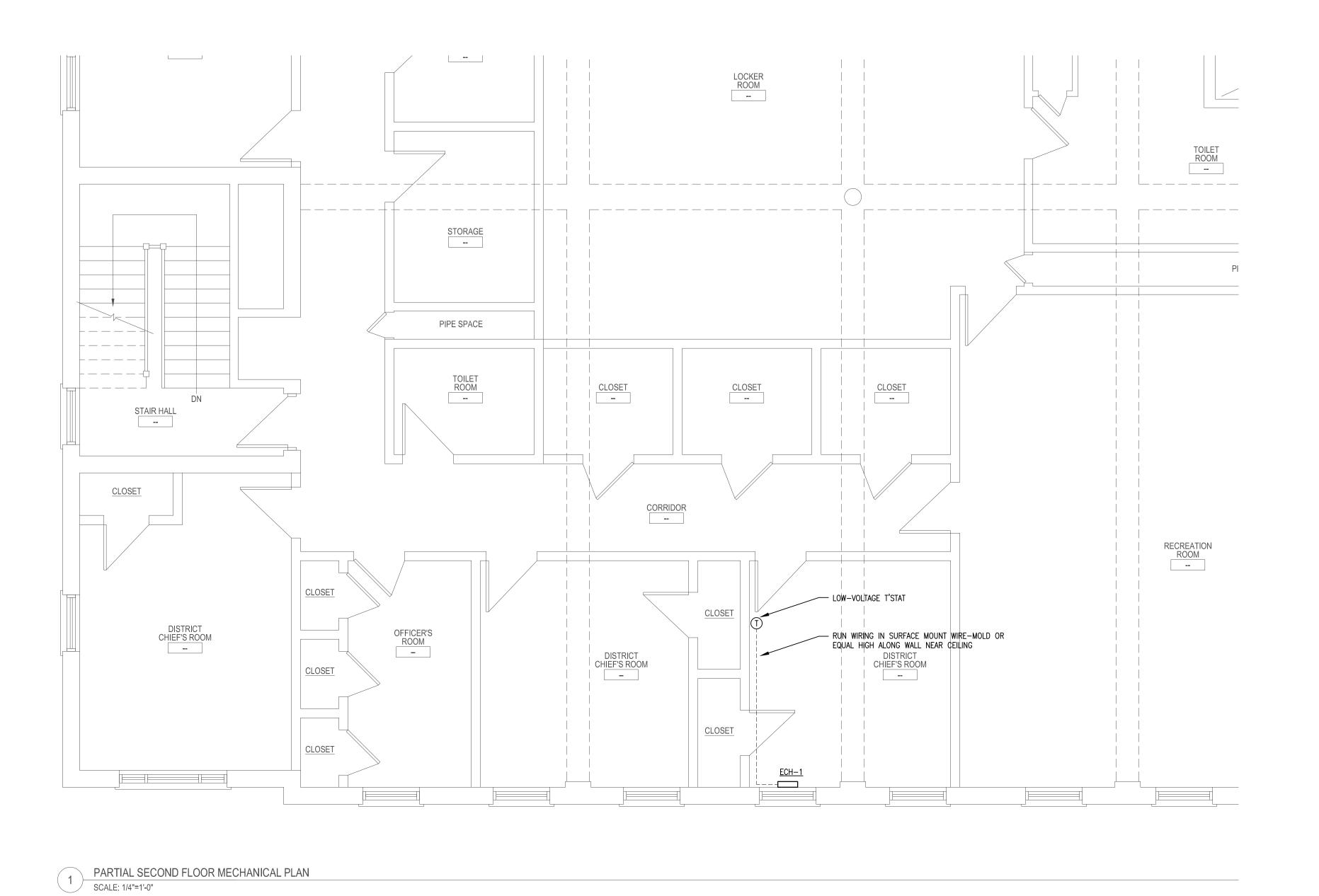
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CHECKED KRS

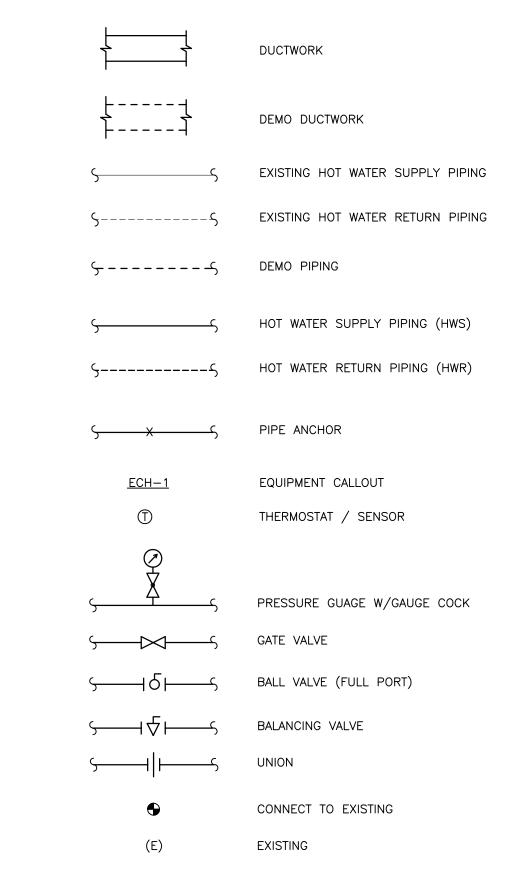
DATE JUNE 8, 2023

DRAWING NUMBER

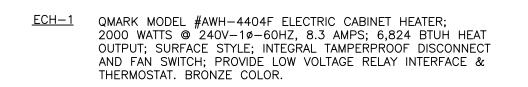


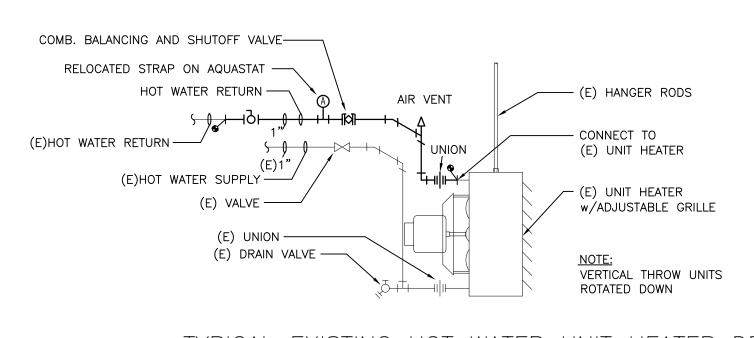


#### SYMBOLS LEGEND



#### **EQUIPMENT NOTES:**





TYPICAL EXISTING HOT WATER UNIT HEATER DETAIL
NO SCALE

ENGINEERING CORPORATION

22 West Street, Unit C ph:508-865-1400 fx:508-865-1401

NORTH ARROW

CONSULTANTS

REVISIONS		

PROJECT	NUMBER			
		C	2023.	0
PROJECT	NAME/LOCATION			
W	ORCES	TER	FIRE	=
ST	ATION	#2 S	OUT	<b> </b>
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**BID SET** 

31A110N #2 3001
DIVISION BUILDING
RENOVATION

180 SOUTHBRIDGE ST.
WORCESTER, MA 01608

DRAWING TITLE

PARTIAL SECOND FLOOR DEMO & PROPOSED MECHANICAL PLANS & DETAILS



# A R C H I T E C T S 178 Albion Street Suite 240 Wakefield, Massachusetts 01880 781 213 5030 T

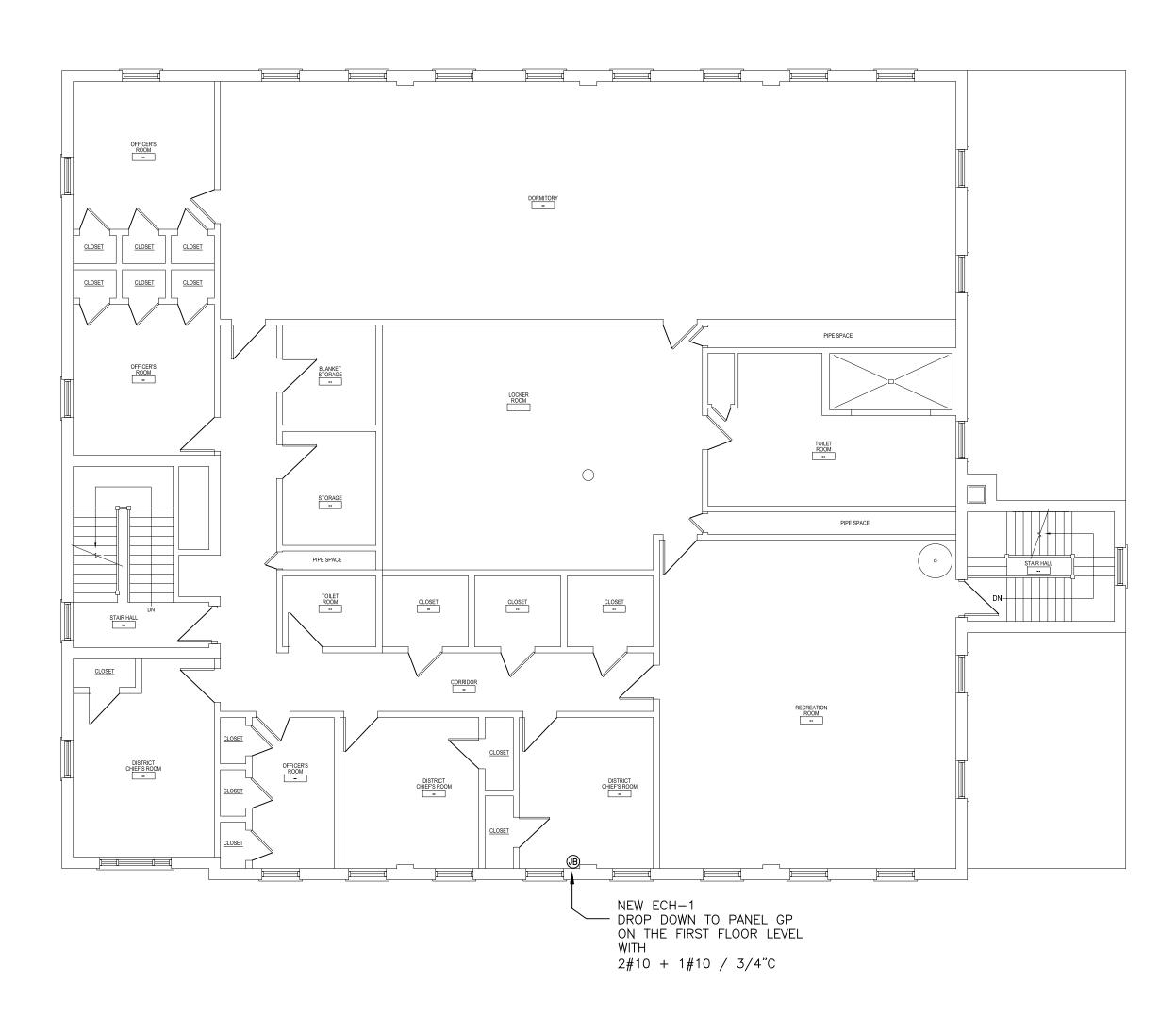
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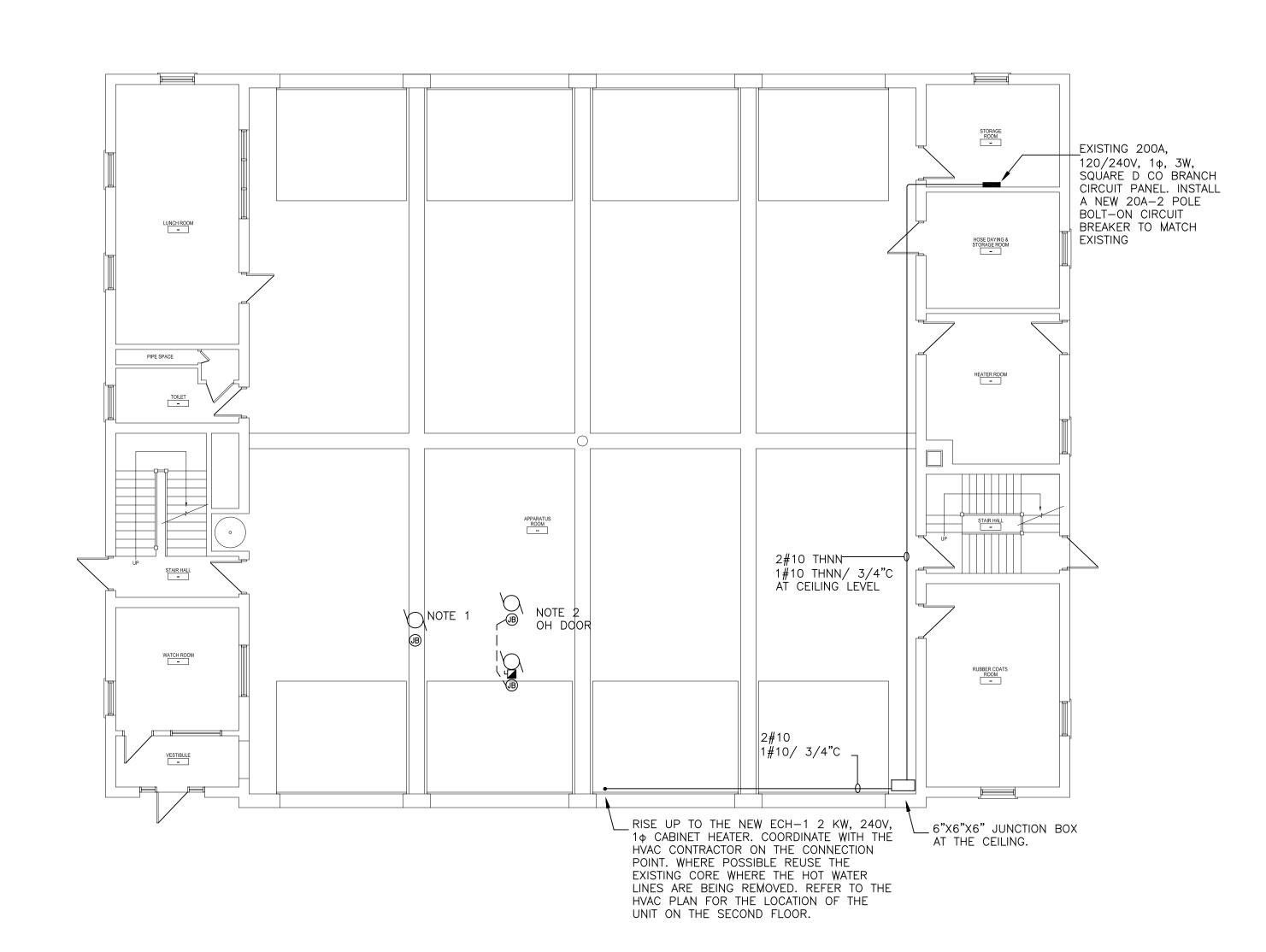
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DRAWN BY	FJG
CHECKED	KRS
DATE	JUNE 8, 2023

DRAWING NUMBER

M-2



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



NOTE 1:
TEMPORARILY DISCONNECT THE BRANCH
CIRCUIT FEED TO THE 120V AQUA-STAT
BEING RELOCATED. EXTEND THE FEED APPROXIMATELY 3'-0" TO THE NEW LOCATION.

NOTE 2:
TEMPORARILY DISCONNECT THE BRANCH CIRCUIT FEED TO THE EXISTING OVERHEAD DOOR CONTROLLER AND RELATED SERVICE SWITCH. FROM THE EXISTING CONTROLLER LOCATION INSTALL 2#12 + 1#12 IN A 3/4"C TO THE RELOCATED CONTROLLER LOCATION APPROXIMATELY 3'-0" AWAY.

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

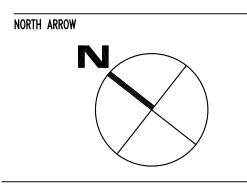
# POWER LEGEND

GFI RECEPTACLE

DISCONNECT SWITCH

JUNCTION BOX

HOMERUN TO PANEL



CONSULTANTS

ELECTRICAL CONSULTANTS 1308 GRAFTON STREET WORCESTER, MASSACHUSETTS 01604 PHONE: (508) 757-7793 \* FAX: (508) 753-2309 REFERENCE NO.: 23125

**BID SET** 

PROJECT PHASE

PROJECT NUMBER 02023.04

PROJECT NAME/LOCATION

**WORCESTER FIRE** STATION #2 SOUTH **DIVISION BUILDING** RENOVATION

180 SOUTHBRIDGE ST. WORCESTER, MA 01608

DRAWING TITLE

FIRST & SECOND EXISTING/PROPOSED FLOOR PLAN



MOUNT VERNON GROUP ARCHITECTS 178 Albion Street

Wakefield, Massachusetts 01880

Suite 240

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JUNE 8, 2023

DRAWING NUMBER