

STATE OF CONNECTICUT

NED LAMONT
GOVERNOR

PROJECT:

CSMS COMPRESSOR
REPLACEMENT, CAMP HARTELL

ADDRESS:

542 NORTH STREET
WINDSOR LOCKS, CT 06096

PROJECT NUMBER:

25MIL23702

MILITARY DEPARTMENT

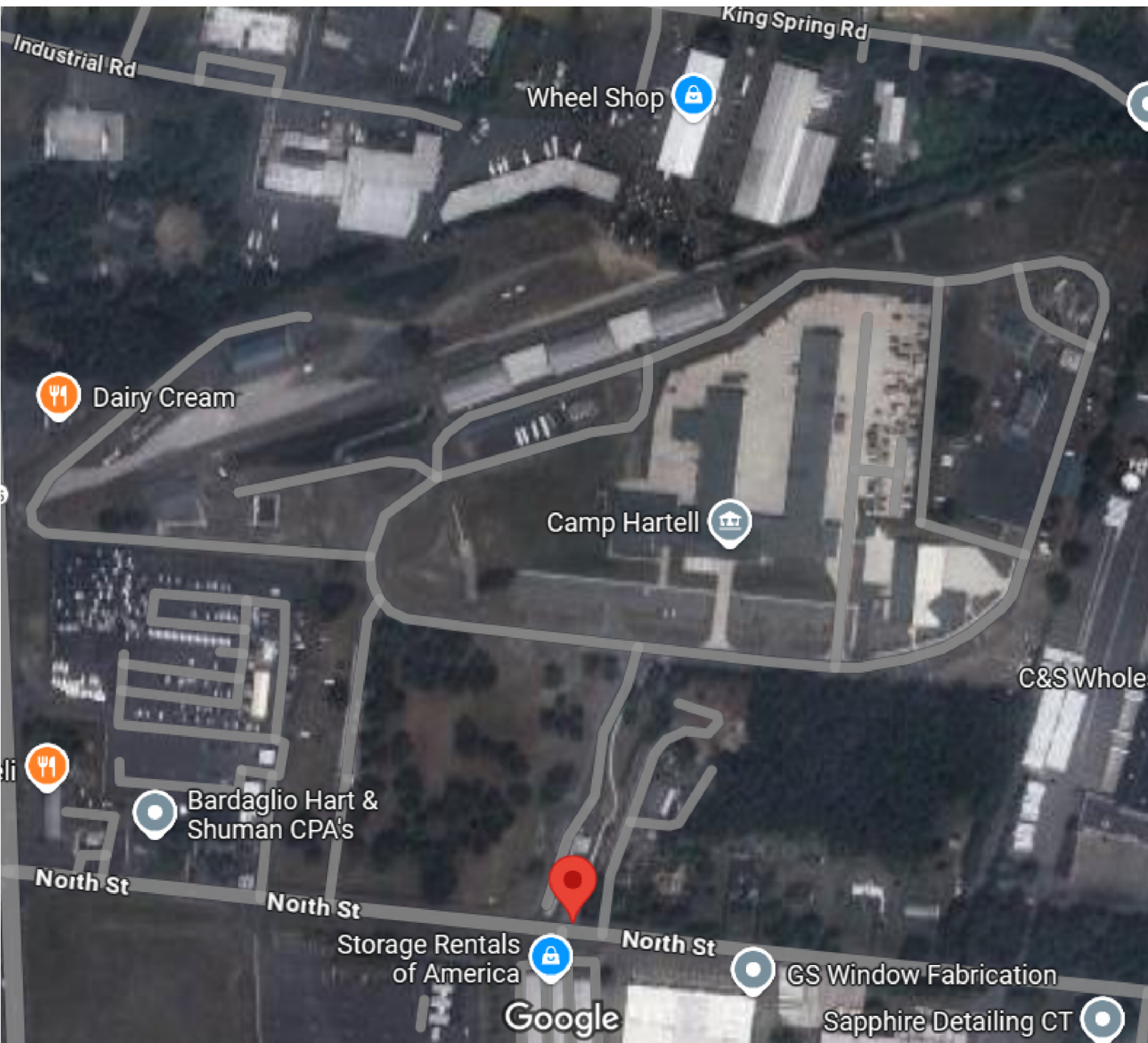
MAJOR GENERAL FRANCIS J. EVON, JR.
ADJUTANT GENERAL

PROJECT SUBMISSION:

CONSTRUCTION
DOCUMENTS

DRAWING LIST	
DRAWING NUMBER	DRAWING DESCRIPTION
SL001	SITE LOGISTICS PLAN
M001	COVER SHEET - MECHANICAL
M002	FLOW AND CONTROL - MECHANICAL
MD100	DEMOLITION FLOOR PLAN DUCTWORK - MECHANICAL
MD100	DEMOLITION FLOOR PLAN PIPING - MECHANICAL
M101	NEW FLOOR PLAN - MECHANICAL
M200	SCHEDULES AND DETAILS - MECHANICAL
M201	DETAILS - MECHANICAL
E001	COVER SHEET - ELECTRICAL
E100	FLOOR PLAN SECTOR 1 - ELECTRICAL
E101	FLOOR PLAN SECTOR 2 - ELECTRICAL
E102	FLOOR PLAN SECTOR 4 - ELECTRICAL
E400	SINGLE LINE DIAGRAM AND PANEL SCHEDULE - ELECTRICAL

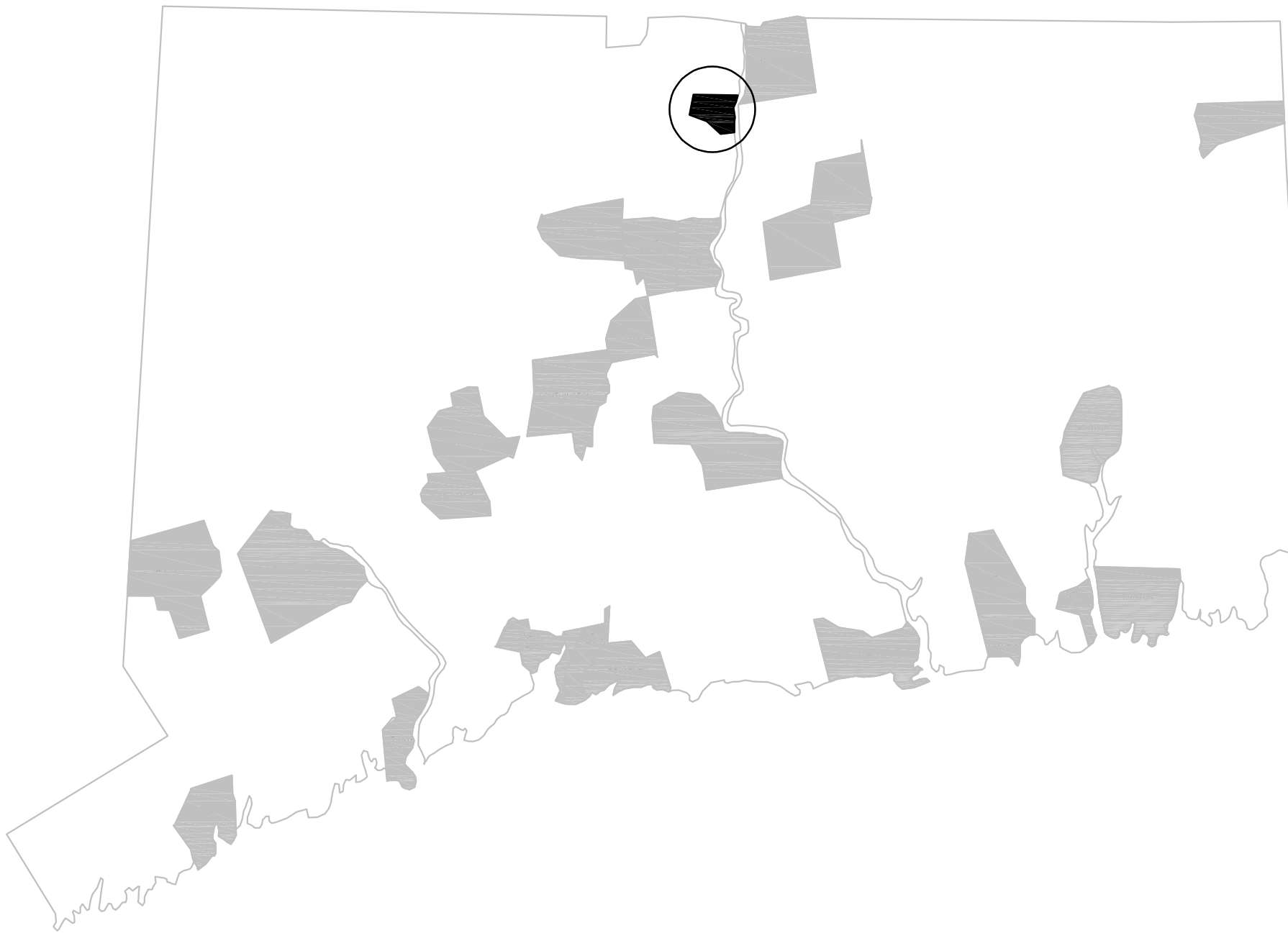
PROJECT SITE KEY PLAN



CODE DATA

- 2021 International Building Code
- 2021 International Existing Building Code
- 2021 International Plumbing Code
- 2021 International Mechanical Code
- 2021 International Energy Conservation Code
- 2020 National Electrical Code (NFPA 70)
- 2017 ICC A117.1 Accessible and Usable Buildings & Facilities

LOCATION PLAN



ARCHITECT/ENGINEER



93 Lake Avenue, 3rd Floor
Danbury, CT 06810
203.778.1017 F 203.778.1018
102 Madison Avenue, 10th Floor
New York, NY 10016
212.695.2422 F 212.695.2423
www.kohleronan.com
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REVISION

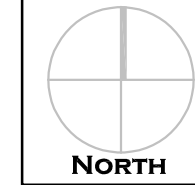
No.	Description	Date
	Construction Documents	3/6/26

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App'd by: KR

Scale: N/A

File as: 25MIL23702



NORTH



STATE OF CONNECTICUT
MILITARY DEPARTMENT
FACILITIES MANAGEMENT
OFFICE
360 BROAD STREET HARTFORD, CT
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860.493.2725 FAX 860.524.4937

Project:

**CSMS Compressor
Replacement, Camp Hartell**

542 North Street, Windsor Locks, CT 06096

Drawing Title
Cover Sheet

Date

MARCH 6, 2026

Tracking Number

25MIL23702

Drawing NUMBER

CS



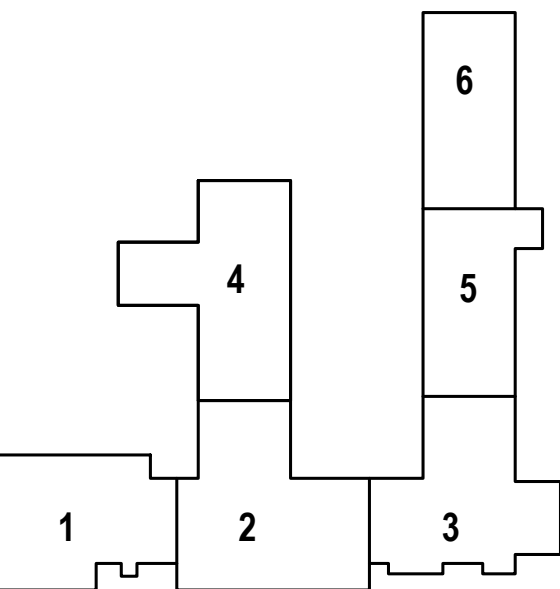
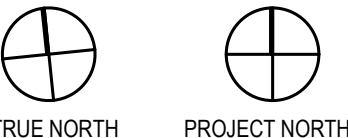
1 SITE LOGISTICS PLAN
SL001 / SCALE: NONE

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
- CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER

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REVISION

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App'd by: JF
Scale: NTS
File as:



**STATE OF CONNECTICUT
MILITARY DEPARTMENT
FACILITIES MANAGEMENT
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360 BROAD STREET HARTFORD, CT 06105
860.493.2725 FAX 860.524.4937

Project
CSMS Compressor Replacement, Camp Hartell
542 North Street, Windsor Locks, CT 06096

Drawing Title
SITE LOGISTICS PLAN

Date
MARCH 6, 2026

Drawing NUMBER

SL001

TRACKING NUMBER
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GENERAL MECHANICAL NOTES

GENERAL	
1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.	B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK: -MECHANICAL SHEET METAL -PIPING -ELECTRICAL WORK
2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.	3. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.
3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.	4. THE ENGINEER IS NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
4. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.	5. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO INCLUDE THE PROVISIONS AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS.	6. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
6. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.	7. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF THEIR SUB-CONTRACTORS.
7. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.	8. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.
8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.	AS BUILT DRAWINGS
9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS, COORDINATE REQUIREMENTS WITH DIVISION 26.	1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2018 IF NOT SPECIFIED. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
10. COORDINATE ALL WORK AND EQUIPMENT WITH WORK OF OTHER TRADES.	2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS: <ul style="list-style-type: none">• INCLUDE ALL CHANGES AND AN ACCURATE RECORD IN AUTOCAD DRAWING OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.• MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.• EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.• APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
11. ALL EXISTING CONDITIONS AS INDICATED ARE APPROXIMATIONS OF EXACT CONDITIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE CONSTRUCTION CONDITIONS BEFORE SUBMITTING BID.	3. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
12. REFER TO SPECIFICATION SECTION 230000 FOR ADDITIONAL PENETRATION SEALING REQUIREMENTS. PENETRATIONS TO COMPLY WITH ASTM E84 & E814 AND APPROVED UL 1479 AND SPECIFIC UL ASSEMBLIES AS REQUIRED TO SUIT PENETRATION CONDITIONS.	4. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.
13. TEMPERATURE CONTROL CONTRACTOR (TCC) IS RESPONSIBLE FOR ALL CONTROL WIRING 120 VOLT AND LESS. SHARED TRANSFORMERS ARE NOT ALLOWED. RUN POWER PER DIVISION 26 REQUIREMENTS.	HOUSEKEEPING PADS
14. TCC SHALL EXTEND ALL POWER FOR DAMPER ACTUATORS, VALVE ACTUATORS AND OTHER CONTROL DEVICES FROM LOCAL ELECTRICAL PANEL. DIVISION 26 TO SUPPLY POWER TO TCCPS. REFER TO ELECTRICAL DRAWINGS FOR PANEL LOCATIONS.	1. PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR-MOUNTED EQUIPMENT. COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING LOCATIONS, AND ANCHOR BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONSTRUCTED OF 3,000 PSI CONCRETE. PADS SHALL BE 4 INCHES HIGH (OR THE MINIMUM HEIGHT TO ACCOMMODATE THE CONDENSATE TRAP HEIGHT), AND MINIMUM 4 INCHES WIDER THAN THE EQUIPMENT IN ALL DIRECTIONS.
15. THE DRAWINGS AND SPECIFICATIONS ARE DIVIDED INTO SECTIONS TO MEET THE NEEDS OF THE ENGINEERS AND THE DESIGN CONSULTANTS. THEY ARE NOT PREPARED AS INSTRUCTIONS TO THE CONTRACTOR FOR HOW TO BUY OUT OR SUBCONTRACT THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS, REGARDLESS OF WHERE IT IS SHOWN. FOR EXAMPLE, ELECTRICAL WORK IS SHOWN ON M-SERIES DRAWINGS AS WELL AS E-SERIES DRAWINGS. TO AVOID OMITTING ANY COMPONENT OF THE PROJECT, REFER TO ALL THE CONTRACT DOCUMENTS IN THEIR ENTIRETY.	2. COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO CLOSER THAN 2 INCHES FROM THE SIDE OF THE PAD. FLOOR DRAINS TO BE COORDINATED WITH PLUMBING CONTRACTOR.
16. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.	HANGERS AND SUPPORT
17. RELOCATE EXISTING DUCTWORK AND/OR PIPE WORK IN EXISTING SPACES TO ACCOMMODATE ALL RENOVATIONS AND ADDITIONS.	1. SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.
18. PATCH ALL WALLS, FLOORS, CEILINGS, AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.	2. PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER EQUIPMENT AND PIPING IS ERCTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
ALTERATION WORK AND DEMOLITION	3. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
1. ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. TO BE REMOVED, SHALL BE REMOVED, OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.	4. BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2-1/2 INCHES AND LARGER. FOR PIPING 2 INCHES AND SMALLER, 1 BEAM CLAMPS, WITH RETAINING STRAPS, SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.
2. UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK AND PIPING TO REMAIN SHALL BE PROPERLY VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.	5. PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.
3. NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK OR PIPING SYSTEM UPON COMPLETION OF WORK.	
4. EXISTING DUCTWORK AND PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.	
5. ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.	
6. ALL EXISTING UNNECESSARY DUCTWORK AND PIPING NOT RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.	
7. RE-ROUTE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY AS REQUIRED BY THE PROPOSED ALTERATIONS.	
SHOP DRAWINGS	
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR DUCTWORK LAYOUT, PIPING LAYOUT, SHEET METAL SHOP STANDARDS AND ALL EQUIPMENT FURNISHED.	
2. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTOCAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2018 IF NOT SPECIFIED.	
3. PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED "NOT REVIEWED".	
COORDINATION DRAWINGS	
1. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. IF REQUESTED, ELECTRONIC FILES OF THE MECHANICAL FLOOR PLANS, SECTIONS AND ELEVATIONS ONLY WILL BE MADE AVAILABLE. ELECTRONIC FILES WILL BE RELEASED ONLY UPON RECEIPT OF THE SIGNED AGREEMENT FOR TRANSFER OF ELECTRONIC FILE DATA, AGREEMENT FOR TRANSFER OF BUILDING INFORMATION MODEL AND ALL FEES INDICATED THEREIN.	
2. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.	
A. SHEET METAL AND PLUMBING/PIPING SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL PLANS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.	

MECHANICAL DEMOLITION NOTES

- THE EXISTING FACILITY WILL BE OCCUPIED AND IN OPERATION DURING THE PERFORMANCE OF THE WORK.
- WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING PIPING OR DUCTWORK WHICH MAY CAUSE DISRUPTION TO OCCUPIED FACILITIES, CONFER WITH THE OWNER, AND SCHEDULE A MUTUALLY AGREEABLE PERIOD OF INTERRUPTION.
- WHERE REPLACEMENT, RELOCATION OR MODIFICATION OF EXISTING EQUIPMENT IS INDICATED, PROVIDE AND MAINTAIN ALL TEMPORARY SERVICES, CONNECTIONS, CONTROLS, AND ANY OTHER MATERIALS AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO OCCUPIED AREAS.
- NO WORK SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION.
- THE OWNER RESERVES THE RIGHT TO OPERATE ALL EXISTING MECHANICAL EQUIPMENT UNTIL THE NEW SYSTEMS COME ON LINE.
- IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED OPERATIONS OF THE BUILDING.
- REMOVED MATERIALS SHALL BE DISPOSED OF USING LICENSED CARTING SERVICE.
- HAZARDOUS MATERIALS - SHALL BE DISPOSED OF BY AN EPA APPROVED, LICENSED DISPOSAL SERVICE. CONTRACTOR SHALL OBTAIN AND HAVE ON FILE, AFFIDAVIT, AND RECEIPTS STATING HOW AND WHERE THE WASTE WAS DISPOSED OF OR CONVERTED.
- IT IS THE INTENTION OF THESE DEMO DRAWINGS TO INDICATE GENERAL SYSTEMS AND MATERIALS TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL OBSOLETE PIPING, DUCTWORK, EQUIPMENT, CONTROLS, ETC. INDICATED OR NOT.
- DUCTWORK, EQUIPMENT AND TERMINAL DEVICES HAVE BEEN TAKEN FROM FIELD OBSERVATION AND ARE TO BE USED FOR REFERENCE AND SHALL NOT BE CONSTRUED TO BE ACTUAL FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SYSTEMS PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
- ALL EQUIPMENT TO BE REMOVED SHALL BE DISPOSED OF PER OR STORED PER DIRECTION OF OWNER. ANY ITEM NOT RETAINED BY OWNER SHALL BE REMOVED FROM SITE AND DISCARDED IN AN APPROVED MANNER.
- IT IS THE INTENTION OF THESE SPECIFICATION TO REMOVE ALL MATERIALS ABANDONED BY THE SCOPE OF THIS CONSTRUCTION PROJECT. NO OBSOLETE MATERIALS (I.E. HANGERS, SUPPORTS, INSULATION, DUCTWORK, ETC.) SHALL REMAIN.
- DISCONNECT AND REMOVE ALL DUCTWORK AND ASSOCIATED SUPPLY, RETURN OR EXHAUST GRILLES INCLUDING BUT NOT LIMITED TO ALL HANGERS, SUPPORTS, VOLUME DAMPERS AND FLEXIBLE DUCTWORK.
- CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION TO ANY EXPOSED OR UNCAPPED NEW OR EXISTING DUCTWORK TO REMAIN TO MINIMIZE DUST CONTAMINATION IN ANY AND ALL OF THE AIR SYSTEMS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO TEMPORARY FILTERS, CAPS, ENCLOSURES, ETC.

GENERAL MECHANICAL SYMBOLS

CA	COMPRESSED AIR PIPING		EXISTING DUCTWORK TO REMAIN
BA	BREATHING AIR PIPING		EXISTING DUCTWORK TO BE REMOVED
---	HIDDEN PIPING		HIDDEN DUCTWORK
- - - - -	EXISTING PIPING / EQUIPMENT TO REMAIN		SUPPLY DUCT UP / DOWN
- x - x - x - x - x - x -	EXISTING PIPING / EQUIPMENT TO BE REMOVED		RETURN AIR DUCT UP / DOWN
	DIRECTION OF FLOW IN PIPE		EXHAUST AIR DUCT UP / DOWN
	PIPE ELBOW UP / DOWN		DOUBLE LINE DUCTWORK WITH INDICATION OF INSIDE DIMENSIONS
	PIPE TOP CONNECTION		ACCESS DOOR IN DUCT
	PIPE BOTTOM CONNECTION		ROUND DUCT DIAMETER SIZE
	CAPPED PIPING		FLEXIBLE DUCT CONNECTION
	PIPING CONTINUATION		MITERED ELBOW WITH TURNING VANES
	PIPE UNION		DUCT TAKE-OFF
	FLEXIBLE PIPE CONNECTOR		VANE EXTRACTOR
	BALL VALVE		MOTORIZED DAMPER
	BUTTERFLY VALVE		BACK DRAFT DAMPER
	PRESSURE GAUGE WITH BALL VALVE		SUPPLY AIR FLOW
	PIPE REDUCER OR INCREASER		EXHAUST / RETURN AIR FLOW
	BALL DRAIN VALVE WITH HOSE COUPLING AND CAP		UNDERLINED TEXT DENOTES EQUIPMENT REFER TO SCHEDULES
	CHECK VALVE		
	THERMOSTAT		
	RELATIVE HUMIDITY SENSOR OR HUMIDISTAT		
	POINT OF CONNECTION		
	POINT OF DEMOLITION / DISCONNECT		

* ALL SYMBOLS MAY NOT BE USED IN THESE DOCUMENTS.

MECHANICAL DRAWING LIST

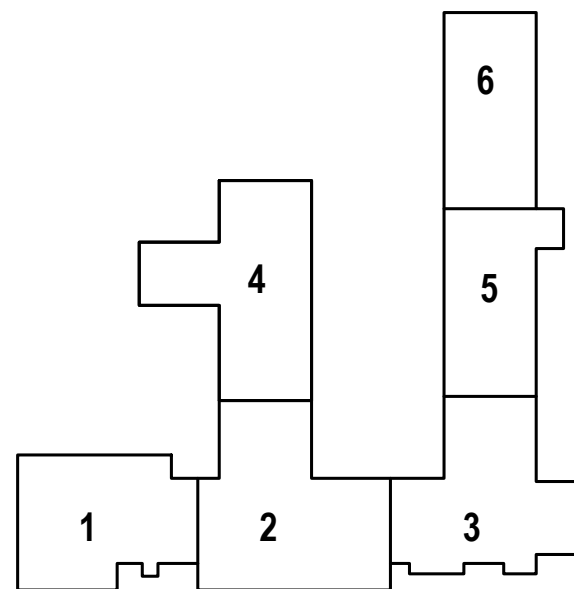
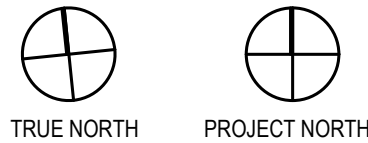
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M201	DETAILS - MECHANICAL

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA. CONTRACTOR TO CONTACT: - CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER



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REVISION

No.	Description	Date
	Construction Documents	3/6/26

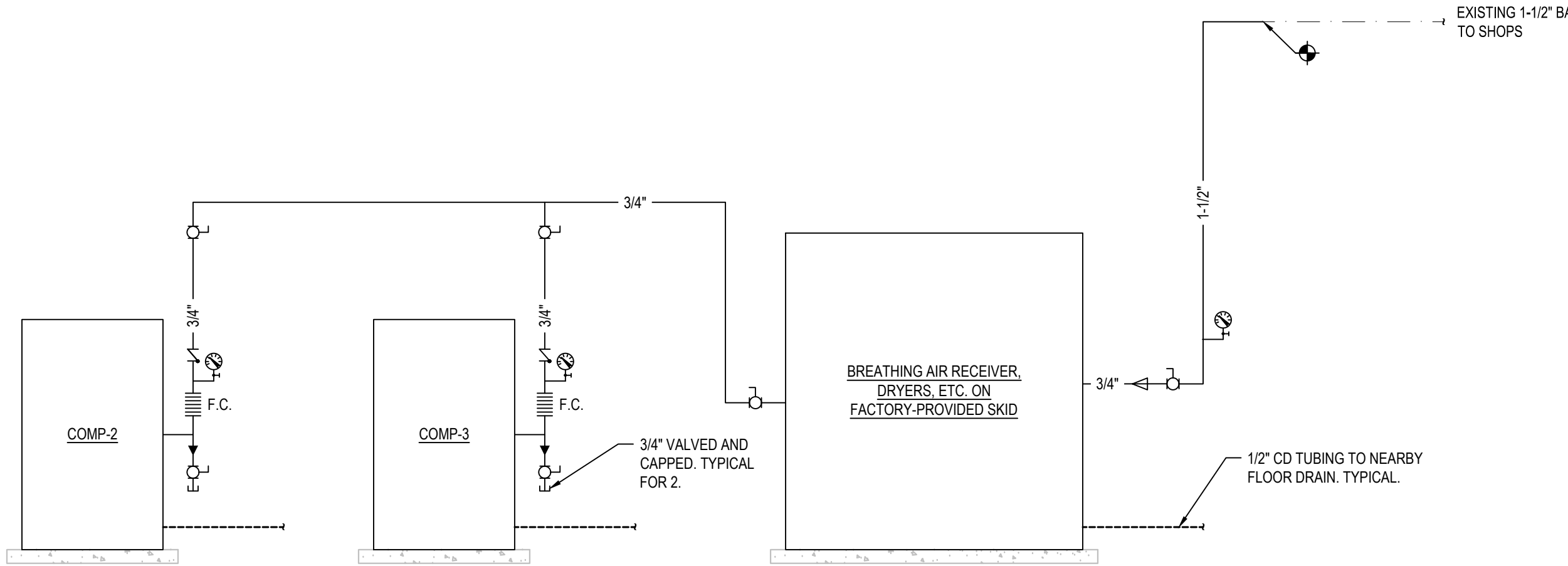
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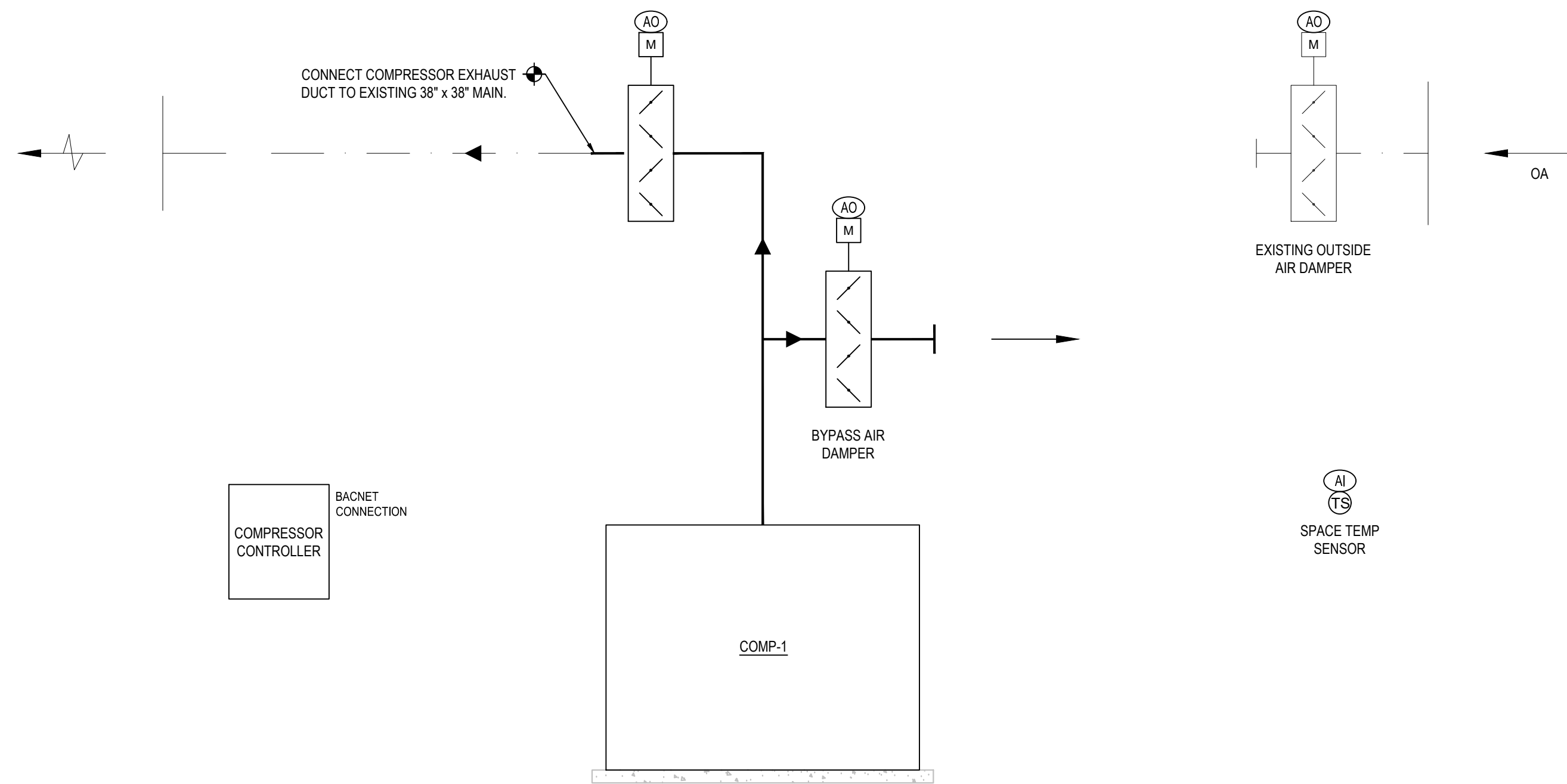
Project
CSMS Compressor Replacement, Camp Hartell
542 North Street, Windsor Locks, CT 06096

Drawing Title
COVER SHEET - MECHANICAL

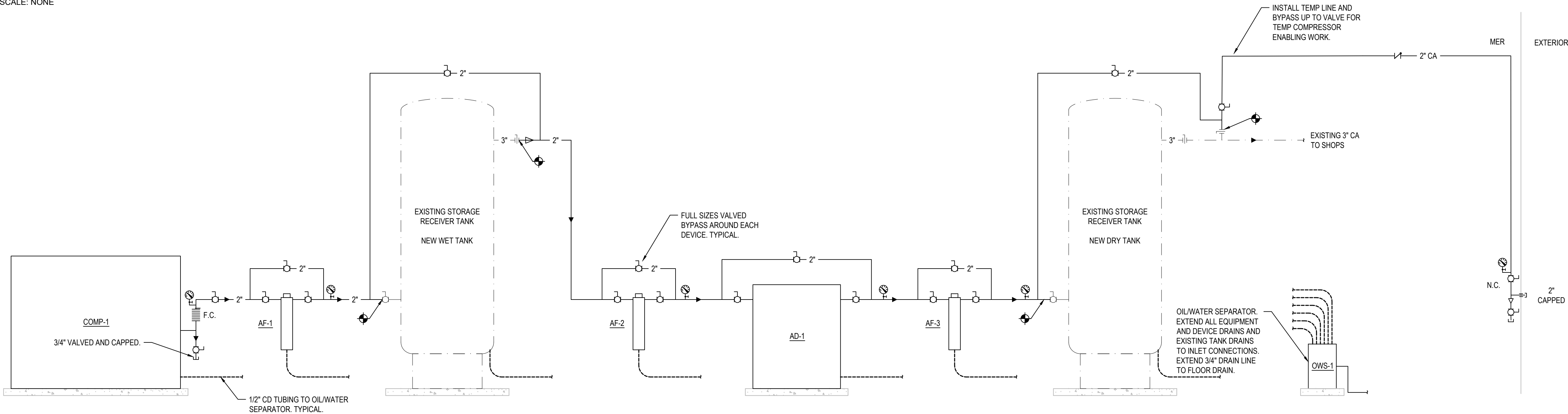
Date MARCH 6, 2026	Drawing NUMBER M001
TRACKING NUMBER 25MIL23702	



1 BREATHING AIR SYSTEM FLOW DIAGRAM
M002 SCALE: NONE



2 COMPRESSOR VENTILATION FLOW AND CONTROL
M002 SCALE: NONE



3 COMPRESSED AIR SYSTEM FLOW DIAGRAM
M002 SCALE: NONE

MECHANICAL CONTROLS SYMBOL LIST

(A)	ALARM
(AI)	DDC ANALOG INPUT POINT
(AO)	DDC ANALOG OUTPUT POINT
(AQ)	AIR QUALITY SENSOR
(BTU)	BTU METER
(CO)	CARBON MONOXIDE SENSOR
(CD)	CARBON DIOXIDE SENSOR
(CS)	CURRENT SENSOR
(DI)	DDC DIGITAL INPUT POINT
(DO)	DDC DIGITAL OUTPUT POINT
(DPT)	DIFFERENTIAL PRESSURE TRANSMITTER
(EPO)	EMERGENCY POWER OFF SWITCH
(ES)	END SWITCH
(F)	FLOW MEASURING STATION
(FS)	FREEZE STAT
(G)	GAS SENSOR
(H)	ROOM HUMIDISTAT / HUMIDITY SENSOR
(HI)	HUMIDITY SENSOR
(HL)	HIGH LIMIT HUMIDISTAT
(L)	ELECTRONIC LIQUID LEVEL SENSOR
(M)	DAMP/VALVE MOTOR
(MS)	MOTOR STARTER
(NO ₂)	NITROGEN DIOXIDE SENSOR
(OC)	OCCUPANCY SENSOR
(P)	PRESSURE SENSOR
(PG)	PROPANE GAS SENSOR
(R)	REFRIGERANT SENSOR
(SD)	SMOKE DETECTOR; FURNISHED AND WIRED BY DIVISION 26 CONTRACTOR AND MOUNTED BY DIVISION 23 CONTRACTOR
(SH)	COOLING TOWER SUMP HEATER
(SP)	STATIC PRESSURE SENSOR
(TCP)	TEMPERATURE CONTROL PANEL
(TCU)	TERMINAL CONTROL UNIT
(T)	ROOM TEMPERATURE SENSOR / THERMOSTAT
(T)	TEMPERATURE SENSOR
(VFD)	VARIABLE FREQUENCY CONTROLLER
(VSF)	VARIABLE SPEED FAN SWITCH
(V)	MAGNAHELIC PRESSURE GAUGE
(H)	HUMIDIFIER
(C)	COIL
(B)	OPPOSED BLADE DAMPER
(P/F)	PUMP / FAN
(DS)	DISCONNECT SWITCH

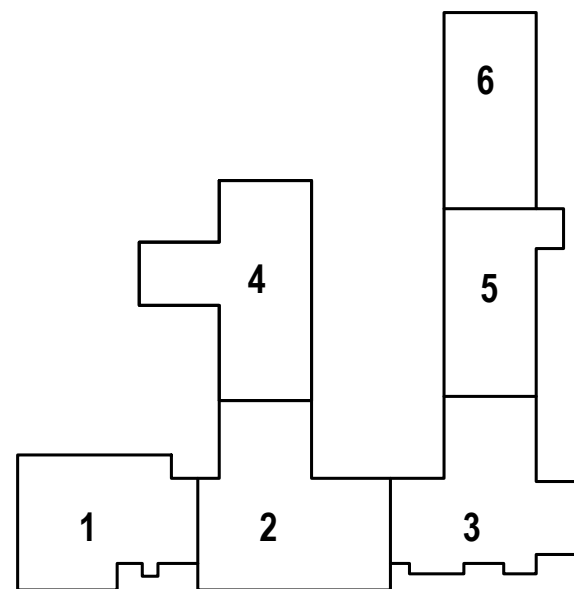
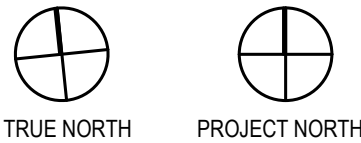
ALL SYMBOLS MAY NOT BE USED IN THESE DOCUMENTS.
*REFER TO VARIABLE FREQUENCY CONTROLLER CONTROL DIAGRAM FOR REQUIRED CONTROL POINTS FOR ALL VFD & VS SYMBOLS INDICATED.
*REFER TO SPACE THERMOSTAT CONTROL DIAGRAM FOR REQUIRED CONTROL POINTS FOR ALL SPACE THERMOSTAT SYMBOLS INDICATED.

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
- CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER



REVISION

No.	Description	Date
1	Construction Documents	3/6/26

Drawn by: EF	
App'd by: KR	
Scale: NTS	
File as:	



Project
CSMS Compressor Replacement, Camp Hartell
542 North Street, Windsor Locks, CT 06096

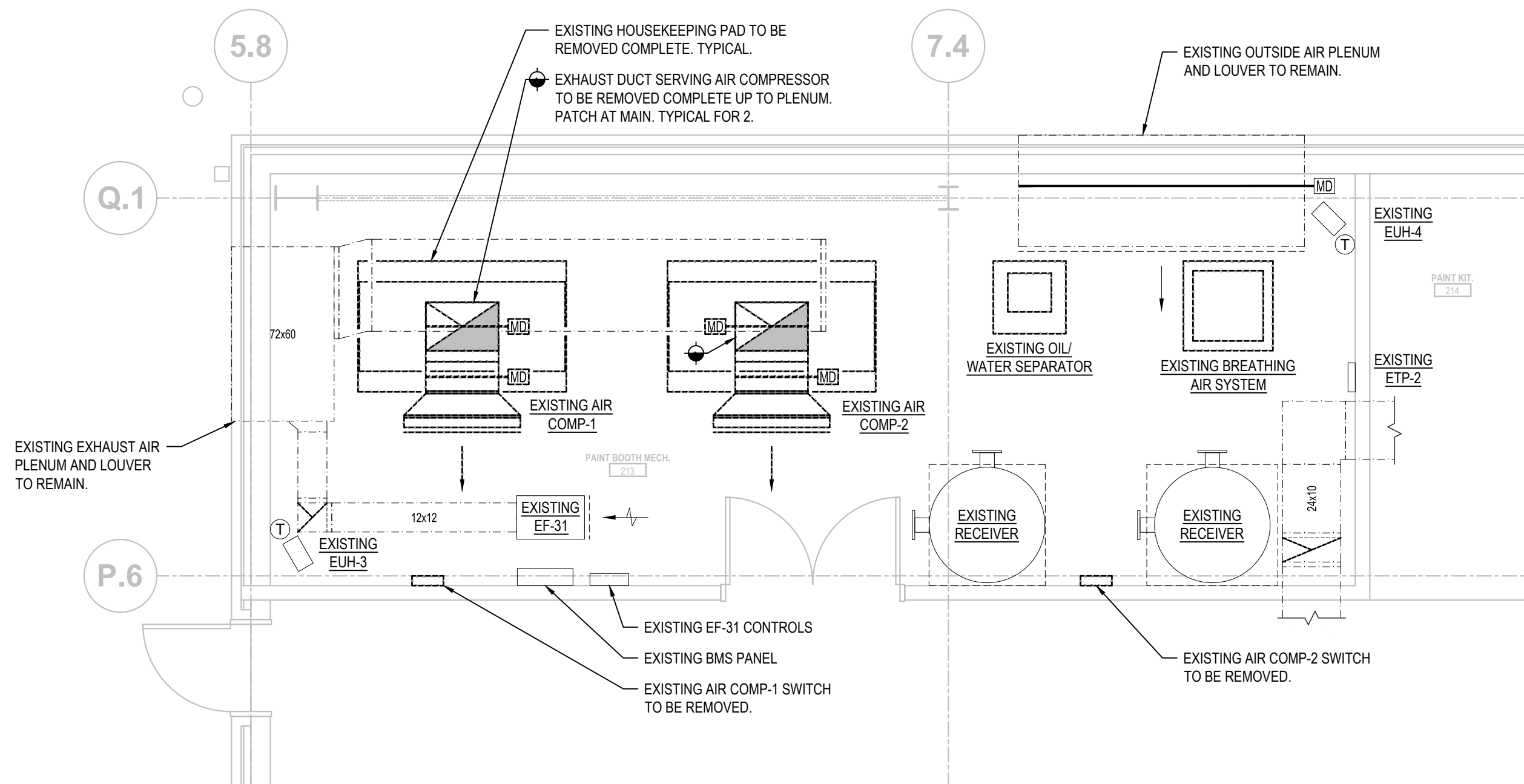
Drawing Title
FLOW AND CONTROL - MECHANICAL

Date
MARCH 6, 2026

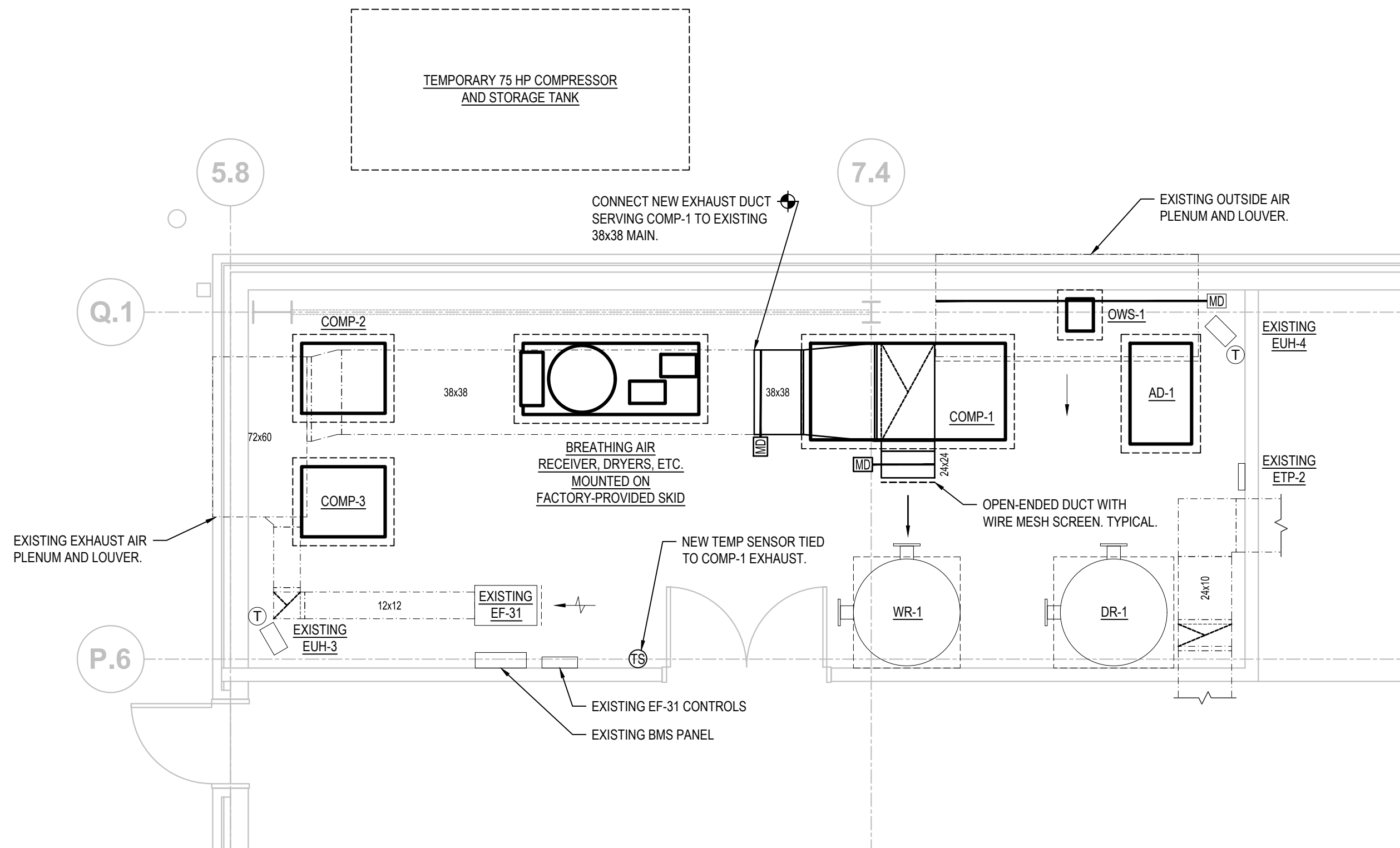
Drawing NUMBER

TRACKING NUMBER
25MIL23702

M002



1 DEMOLITION PLAN - DUCTWORK
MD100 SCALE: 1/2"=1'-0"



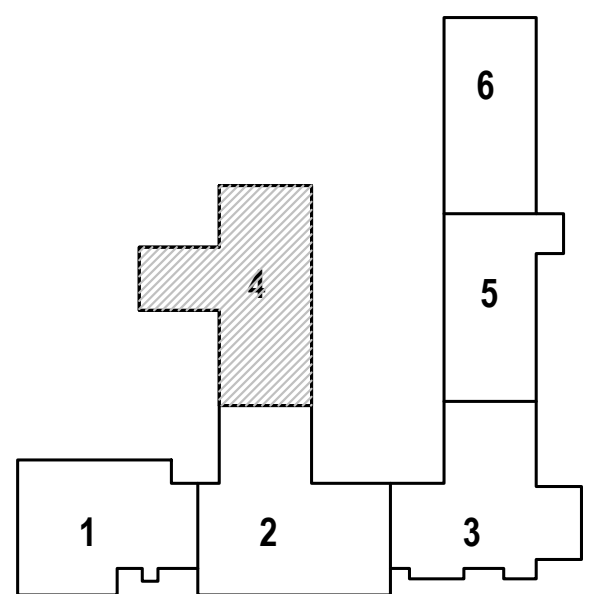
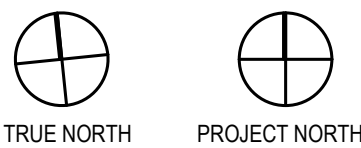
2 NEW PLAN - DUCTWORK
MD100 SCALE: 1/2"=1'-0"

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
- CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER

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REVISION

No.	Description	Date
1	Construction Documents	3/6/26

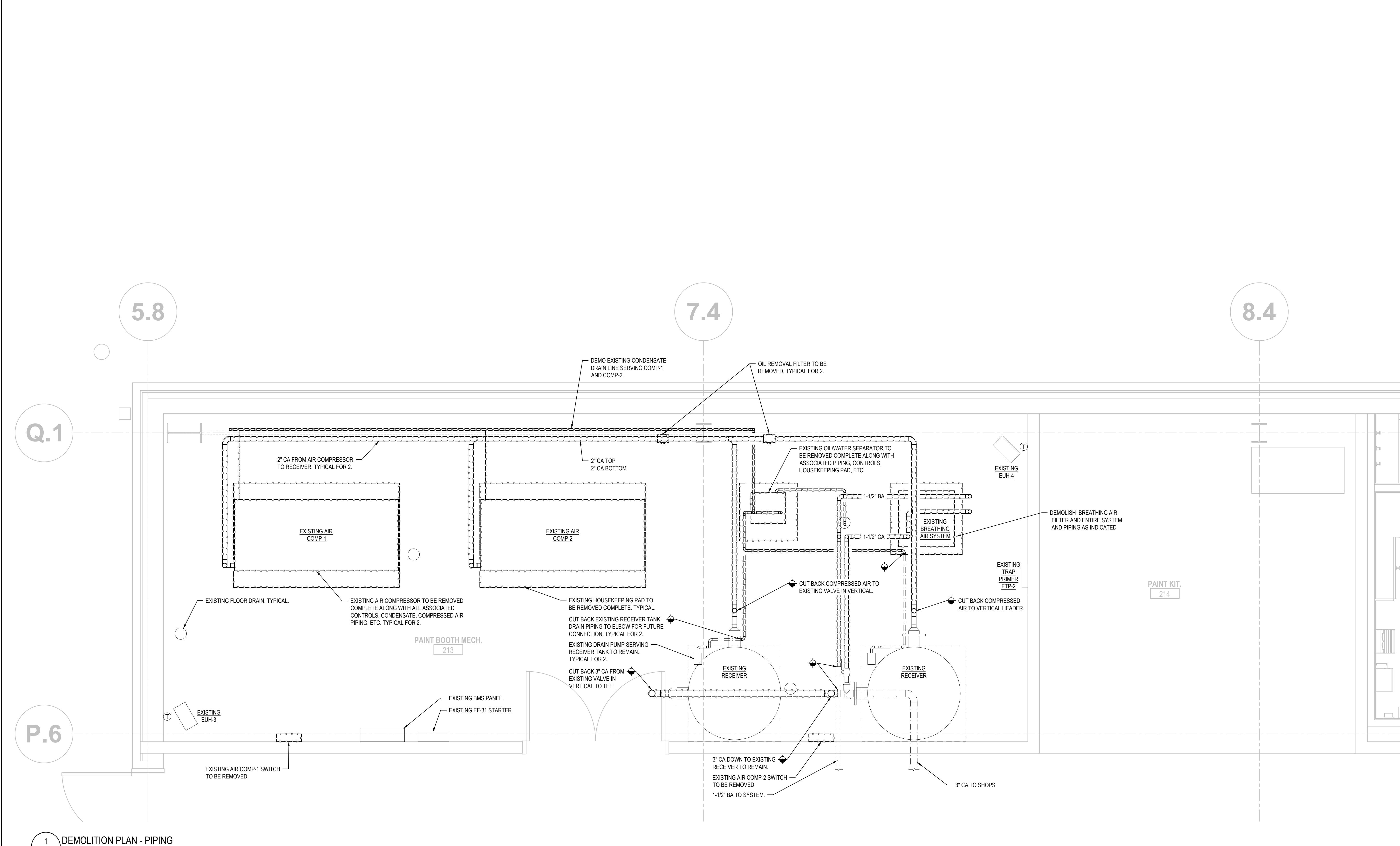
Drawn by: EF	NORTH
App'd by: JF	
Scale: 1/2" = 1'-0"	
File as:	

**STATE OF CONNECTICUT
MILITARY DEPARTMENT
FACILITIES MANAGEMENT**
OFFICE
360 BROAD STREET HARTFORD, CT 06105
860.493.2725 FAX 860.524.4937

Project
**CSMS Compressor
Replacement, Camp Hartell**
542 North Street, Windsor Locks, CT 06096

Drawing Title
**DEMOLITION FLOOR PLAN
DUCTWORK - MECHANICAL**

Date MARCH 6, 2026	Drawing NUMBER MD100
TRACKING NUMBER 25MIL23702	



1 DEMOLITION PLAN - PIPING
MD101 SCALE: 1/2"=1'-0"

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
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KEY PLAN

TRUE NORTH PROJECT NORTH

ARCHITECT/ENGINEER

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REVISION		
No.	Description	Date
	Construction Documents	3/6/26

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File as:

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Project

CSMS Compressor Replacement, Camp Hartell

542 North Street, Windsor Locks, CT 06096

Drawing Title

DEMOLITION FLOOR PLAN PIPING - MECHANICAL

Date

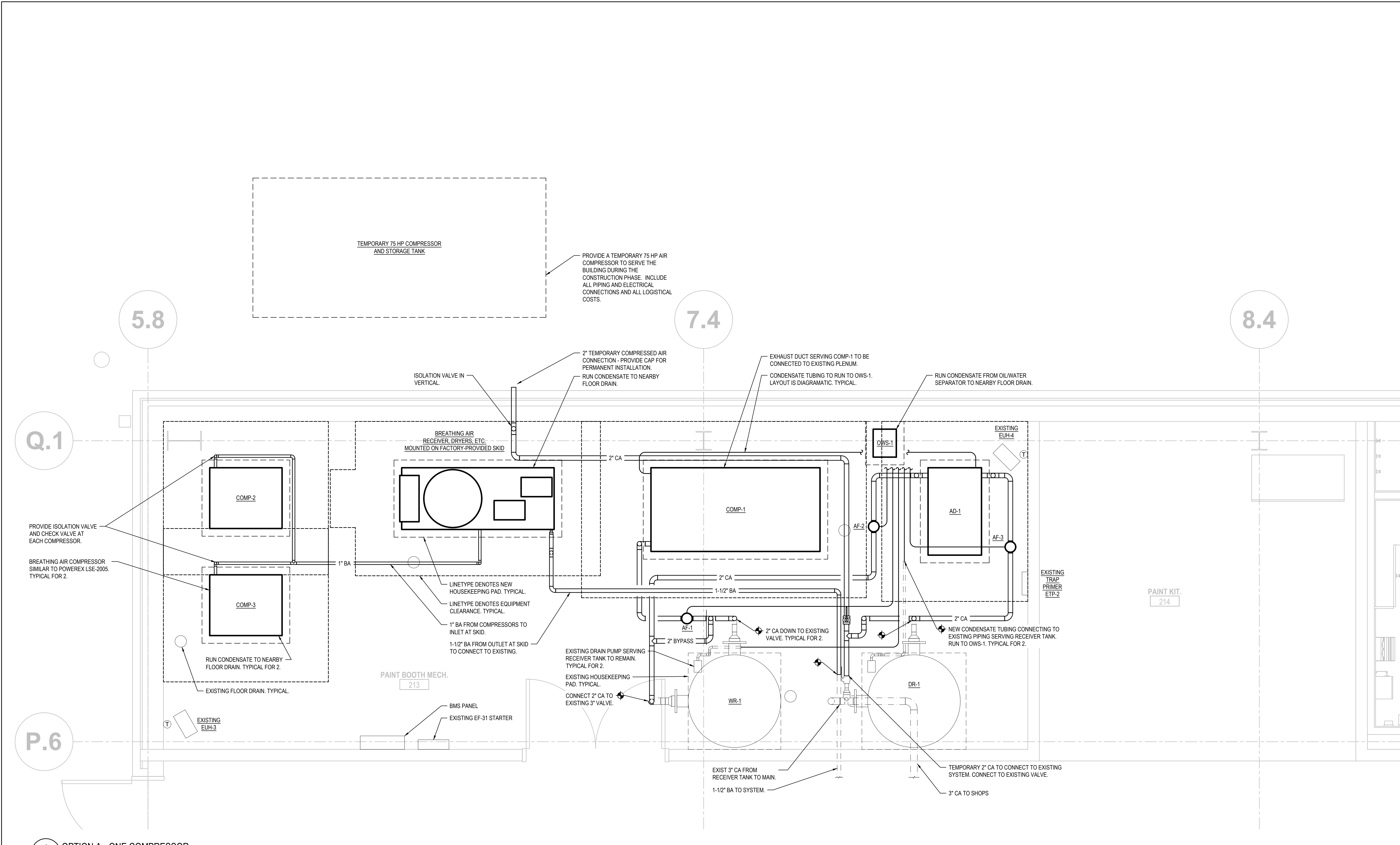
MARCH 6, 2026

Drawing NUMBER

MD101

TRACKING NUMBER

25MIL23702



1 OPTION A - ONE COMPRESSOR
M101A SCALE: 1/2"=1'-0"

GENERAL:

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KEY PLAN

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REVISION		
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	Construction Documents	3/6/26

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App'd by: JF
Scale: 1/2" = 1'-0"
File as:

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FACILITIES MANAGEMENT**

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Project

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Drawing Title

FLOOR PLAN PIPING - MECHANICAL

Date

MARCH 6, 2026

Drawing NUMBER

M101

TRACKING NUMBER

25MIL23702

VIBRATION-CONTROL			
EQUIPMENT	BASE	ISOLATOR*	DEFLECTION
MOTORIZED EQUIPMENT, FLOOR MOUNTED	4" HOUSEKEEPING PAD	NP	0.2"
PIPING WITHIN 50FT OF CONNECTION TO ANY PIECE OF EQUIPMENT WITH A MOTOR	-	HN	1.2"
DUCTWORK IN MECHANICAL ROOMS OR WITHIN 50FT OF CONNECTED VIBRATION-ISOLATED EQUIPMENT	-	HN	0.25"
PIPE TO COMPRESSOR CONNECTION	-	FPC	-
FLOOR MOUNTED EQUIPMENT (ALL)	4" HOUSEKEEPING PAD	-	-

REMARKS:
1. REFER TO SPECIFICATION SECTION 230548 - "VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT" FOR A DESCRIPTION OF EACH VIBRATION CONTROL DEVICE.
FPC - FLEXIBLE PIPE CONNECTIONS
HN - NEOPRENE HANGER
NP - NEOPRENE PAD

* IN ADDITION TO ANY INTERNAL VIBRATION ISOLATION.

AIR COMPRESSOR									
UNIT NO	CFM	PSIG	SOUND LEVEL	ELECTRICAL				MAKE/MODEL	REMARKS
				HP	VOLTS	PH	RPM		
COMP-1	341	125	72 dBA	75	460	3	1780	SULLAIR SN5509V	ROTARY SCREW

NOTES:
1. VFD DRIVEN COMPRESSOR

AIR DRYER												
UNIT NO	CFM	INLET PRESSURE	INLET TEMP	PRESSURE DROP	OUTLET D.P.	EVAPORATOR TYPE	CONDENSING UNIT	MOISTURE SEPARATOR	ELECTRICAL		MAKE/MODEL	REMARKS
									KW	VOLT / Ø / HZ		
AD-1	400	125 PSIG	100°F	1.48 PSID	45°F MAX	REFRIGERANT TO AIR	AIR-COOLED	CENTRIFUGAL TYPE	2.27	460 / 3 / 60	SULLAIR SRD400	-

COMPRESSED AIR FILTERS											
ITEM	MAKE/MODEL	ELEMENT TYPE	PARTICLE REMOVAL (MICRON)	MAX. OIL CARRYOVER AT 70°F (PPM)	CONNECTION SIZE (NPT)	MAX. CFM	MAX. TEMP.	INITIAL PRESSURE LOSS (PSI)	MAX. PRESSURE (PSI)	PRESSURE LOSS FOR ELEMENT CHANGE (PSI)	REMARKS
AF-1	MIKROPOR GON-US-470MP	-	5	5	2"	470	176°F	0.6	290	10	PRE FILTERING
AF-2	MIKROPOR GON-US-470MX	PARTICULATE	1	0.5	2"	470	176°F	1.1	290	10	GENERAL PURPOSE
AF-3	MIKROPOR GON-US-470MY	COALESCING	0.01	0.01	2"	470	176°F	290	290	10	OIL REMOVAL

NOTES:
1. FILTERS TO HAVE 2" HOUSINGS.
2. PROVIDE ZERO LOSS DRAINS AND DRAIN LINES TO OIL/WATER SEPARATOR.
3. SECURE TO WALL WHERE PRACTICAL WITH WALL BRACKET.
4. INSTALL BYPASS LINE WITH AMPLE CLEARANCE FOR SERVICING.

DUCT PRESSURE CLASS	
APPLICATION	PRESSURE CLASS
GENERAL EXHAUST DUCTWORK	2" W.G.

NOTES:
1. PRESSURE CLASS SHALL BE DEFINED PER SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION.
2. DUCTWORK, JOINTS, SEALING, AND FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION.

HVAC DUCT/PLENUM MATERIAL			
APPLICATION	SUPPLY	RETURN	EXHAUST
TYPICAL (UNLESS OTHERWISE SPECIFIED)	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL

1. DUCT CONSTRUCTION SHALL MEET SMACNA METAL & FLEXIBLE 2005 3RD EDITION STANDARDS.

PIPING/TUBING MATERIAL, JOINTS & FITTINGS						
SYSTEM	PIPE SIZE	CONSTRUCTION	PIPING	FITTINGS	UNIONS	FLANGES
COMPRESSED AIR AND BREATHING AIR	2 1/2" AND SMALLER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	CAST BRONZE, CLASS 150, SOLDER TYPE, ANSI B16.24.
	3" AND LARGER(CA ONLY)	BUTT WELDED CONSTRUCTION WITH FLANGED CONNECTIONS TO VALVES AND EQUIPMENT AS REQUIRED.	BLACK STEEL, SCHEDULE 40, SEAMLESS, ASTM A53, GRADE B.	STEEL, CLASS 150, BUTT WELD ENDS, ANSI B16.9, ASTM A234.	STEEL, CLASS 150, WELD TYPE, ANSI B16.5, ASTM 181, GRADE 1.	STEEL, CLASS 150, WELD TYPE, ANSI B16.5, ASTM A234, GRADE WPA.
CONDENSATE DRAINS	2" AND SMALLER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	USE UNIONS
	2 1/2" AND LARGER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	USE UNIONS

OIL/WATER SEPARATOR					
UNIT NO	SYSTEM SERVED	GALLONS	MATERIAL	MAKE/MODEL	REMARKS
OWS-1	COMPRESSED AIR	7	IONIC EXCHANGE RESIN	CLEAN RESOURCES 1DC 350	

NOTES:
1. PROVIDE ALL DRAIN LINES AND FITTINGS FROM EQUIPMENT DRAINS. INSTALL PER MANUFACTURER'S INSTRUCTION.

BREATHING AIR COMPRESSOR									
UNIT NO	HP	SCFM @ 100 PSIG	SOUND LEVEL	TANK SIZE (GAL.)	BTU/HR	ELECTRICAL		MAKE/MODEL	REMARKS
						VOLTS	SYSTEM F.L.A.		
COMP-2 / COMP-3	20	45.6	58 dBA	200	38,180	460	28	POWEREX LSE2005	

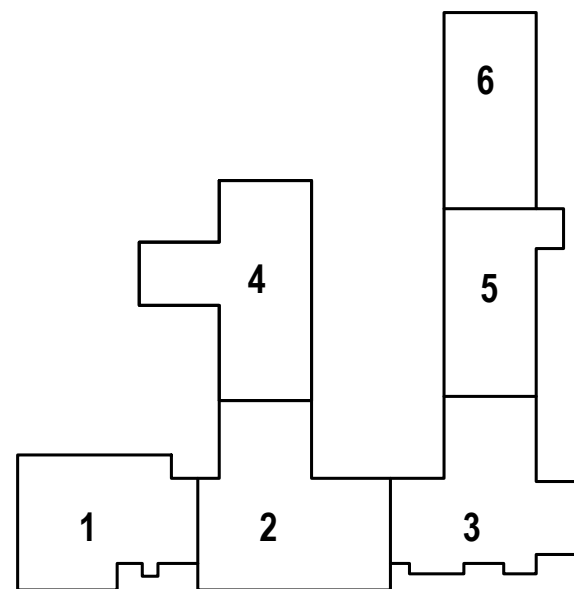
NOTES:
1. COMP-2 IS LEAD COMPRESSOR. COMP-3 IS STANDBY.
2. PROVIDE DUAL DESSICANT DRYERS, REGULATORS, ALARMS AND FILTRATION STATIONS ON FACTORY SKID AND ALL INTERCONNECTING PIPING AND WIRING. REFER TO SPECIFICATIONS.

GENERAL:

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CONTRACTOR TO CONTACT:
- CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER

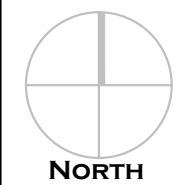


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REVISION

No.	Description	Date
	Construction Documents	3/6/26

Drawn by: EF
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Scale: NTS
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Project
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542 North Street, Windsor Locks, CT 06096

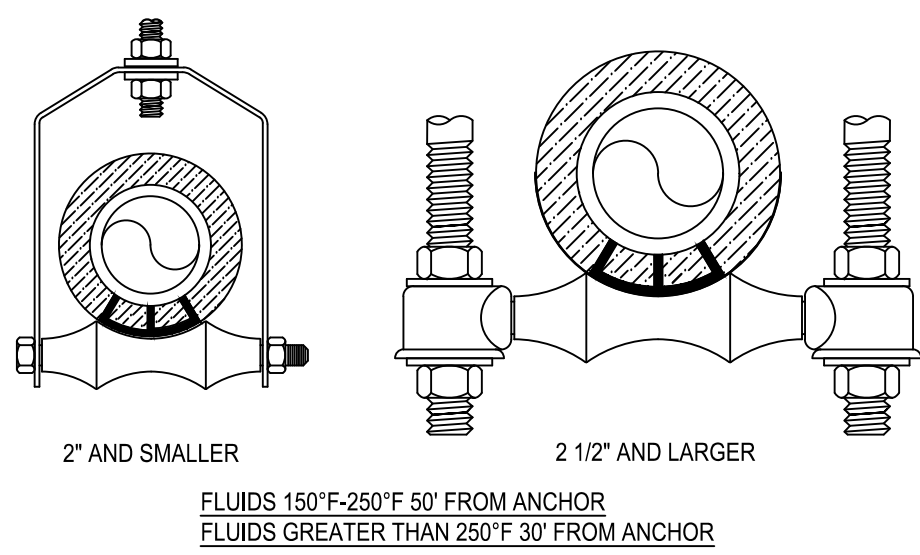
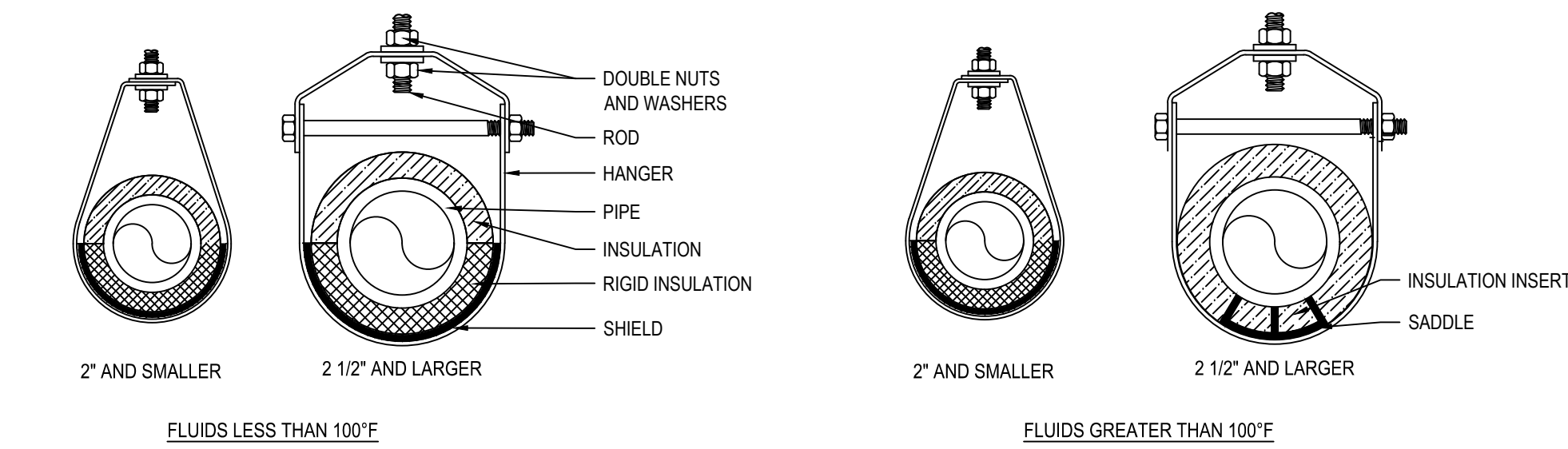
Drawing Title
SCHEDULES & DETAILS - MECHANICAL

Date
MARCH 6, 2026

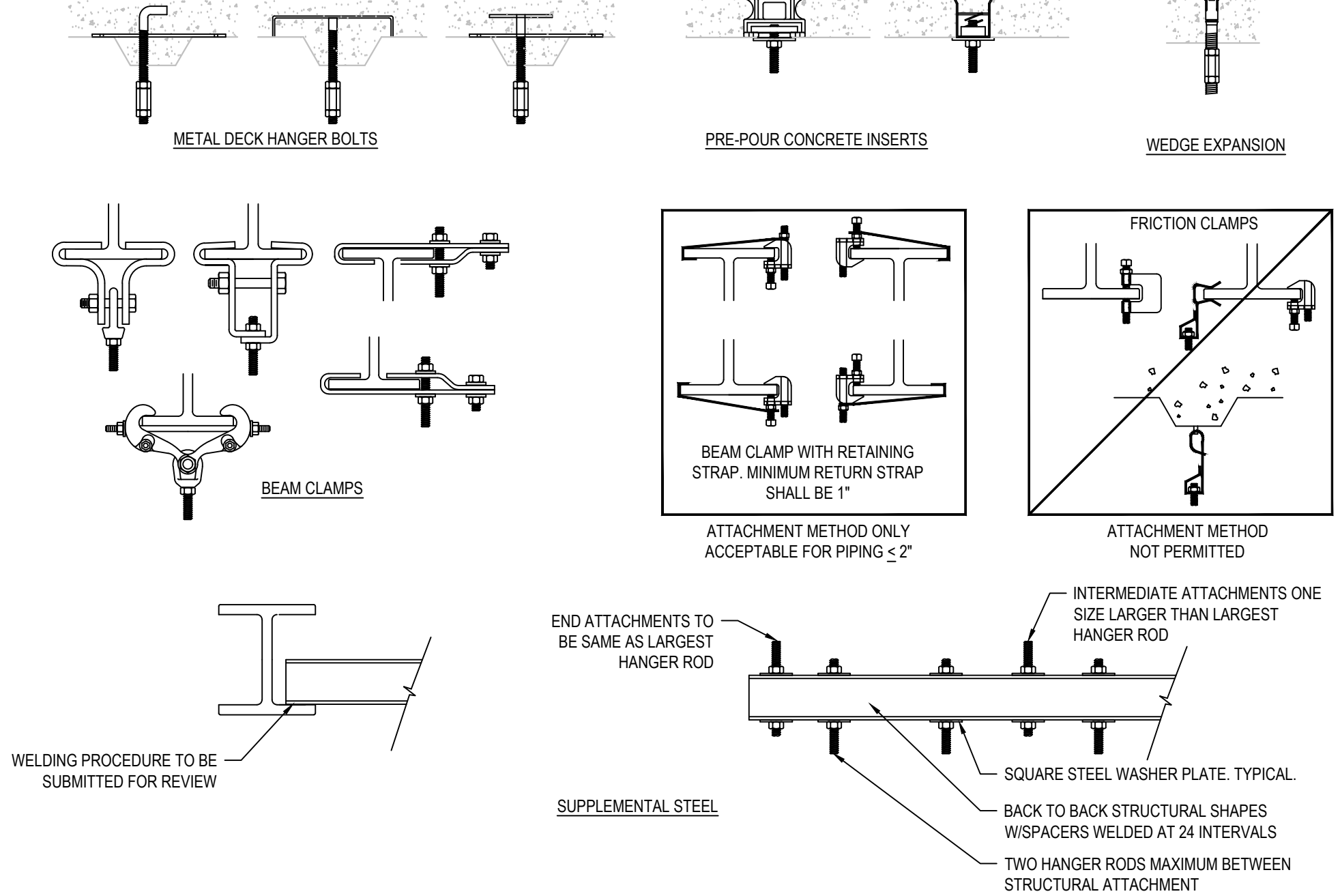
Drawing NUMBER

TRACKING NUMBER
25MIL23702

M200

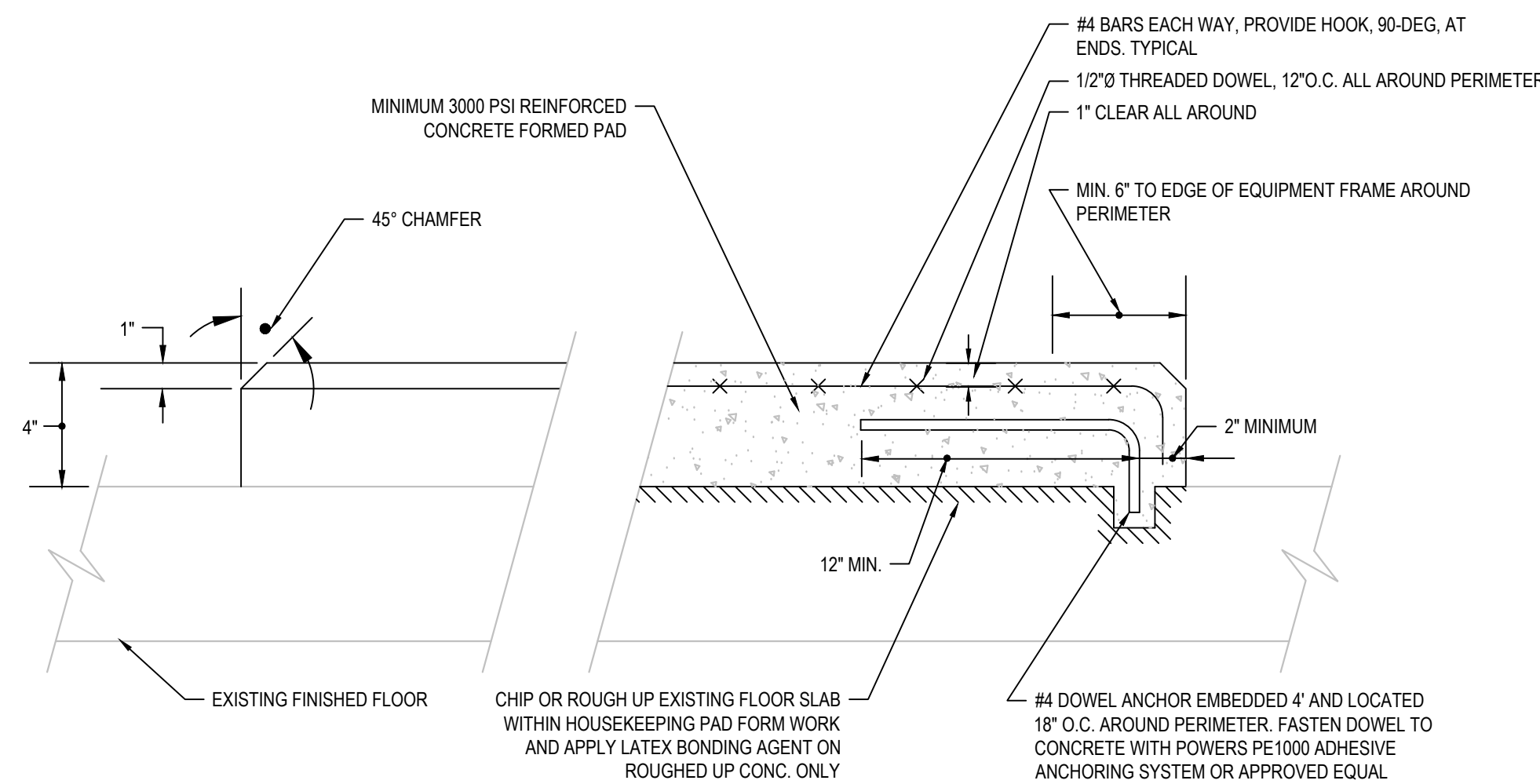


HANGER SCHEDULE		
PIPE SIZE	ROD SIZE	MAX. SPACING
UP TO 1 1/4"	3/8" DIA.	8' STEEL
UP TO 1 1/4"	3/8" DIA.	6' COPPER & BRASS
1 1/2" & 2"	3/8" DIA.	10'
2 1/2" & 3"	1/2" DIA.	10'
4" & 5"	5/8" DIA.	10'
6"	3/4" DIA.	10'
8", 10", 12"	7/8" DIA.	10'
14" & 16"	1" DIA.	10'
18"	1 1/8" DIA.	10'
20" & 24"	1 1/4" DIA.	10'

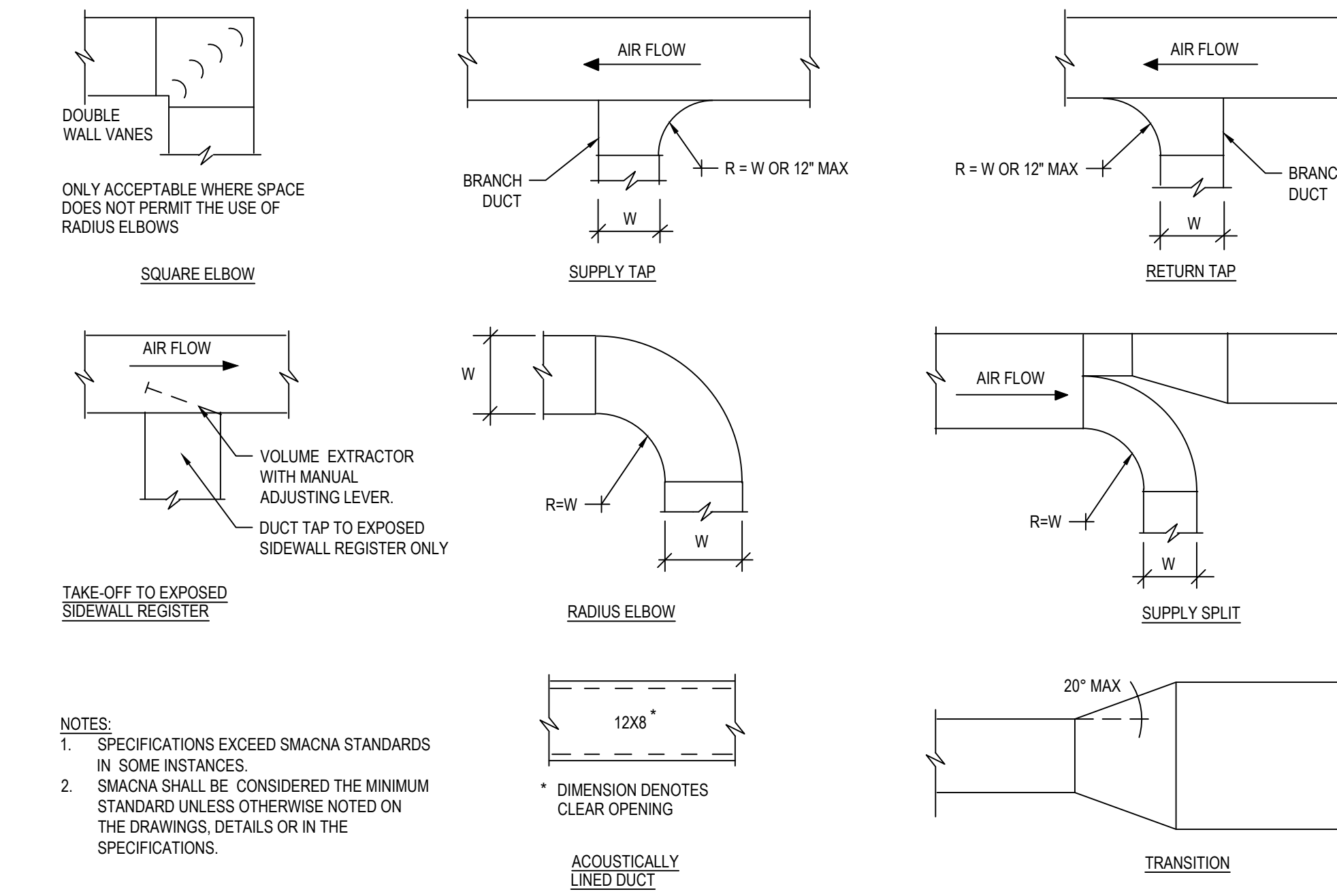


1 PIPE HANGER DETAIL
M201 NOT TO SCALE

2 PIPE HANGER ATTACHMENT DETAIL
M201 NOT TO SCALE



NOTES:
1. CONCRETE PAD LENGTH, WIDTH AND LOCATION TO BE DETERMINED BY THE MECHANICAL CONTRACTOR BASED ON THE SUBMITTED EQUIPMENT.



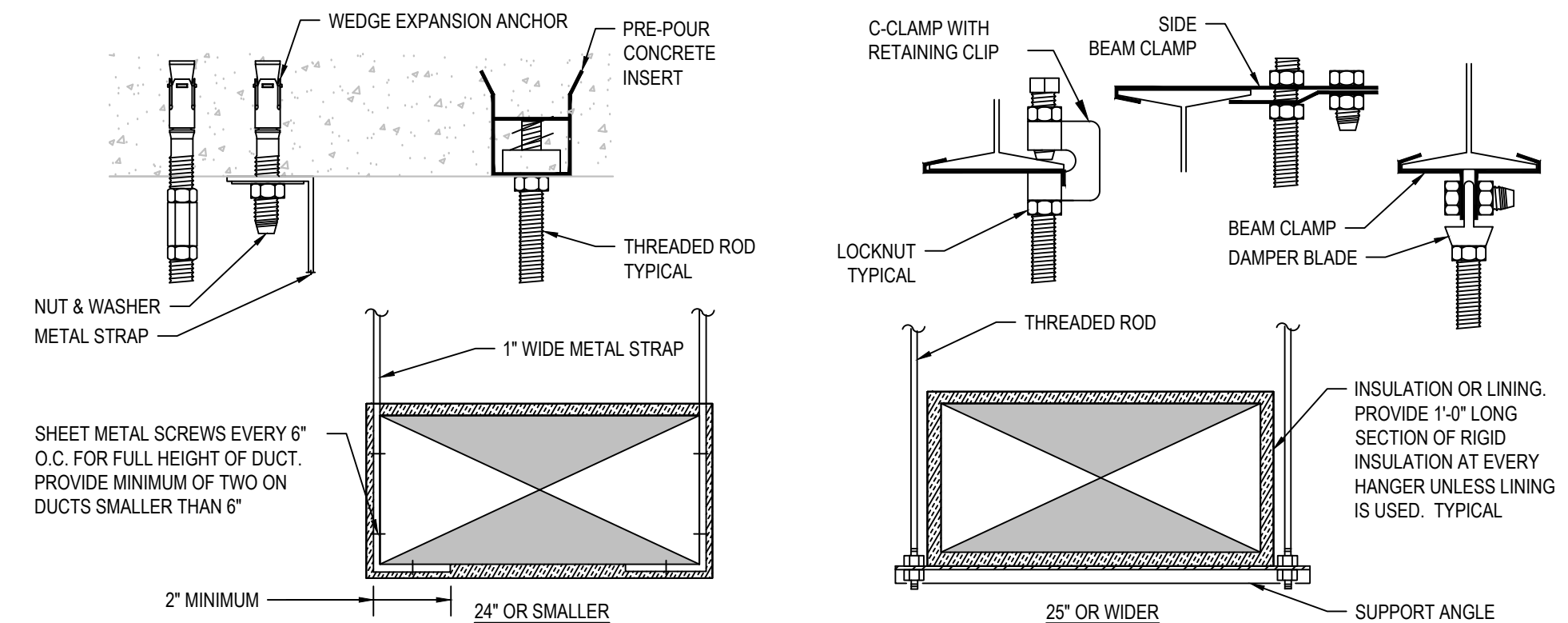
NOTES:
1. SPECIFICATIONS EXCEED SMACNA STANDARDS IN SOME INSTANCES.
2. SMACNA SHALL BE CONSIDERED THE MINIMUM STANDARD UNLESS OTHERWISE NOTED ON THE DRAWINGS, DETAILS OR IN THE SPECIFICATIONS.

* DIMENSION DENOTES CLEAR OPENING

ACOUSTICALLY LINED DUCT

3 HOUSEKEEPING PAD DETAIL
M201 NOT TO SCALE

4 DUCT CONSTRUCTION DETAIL
M201 NOT TO SCALE



DUCT WIDTH	SUPPORT ANGLE OR EQUIV. CHANNEL	ROD DIA.	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 30"	1 1/2" X 1 1/2" X 1/8"	3/8"	8'-0" O.C.	4 SQ. FT.
31" TO 42"	1 1/2" X 1 1/2" X 1/8"	3/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1 1/2" X 1 1/2" X 1/8"	1/2"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	2" X 2" X 1/4"	1/2"	4'-0" O.C.	—
85" AND UP	2" X 2" X 1/4"	1/2"	4'-0" O.C.	—

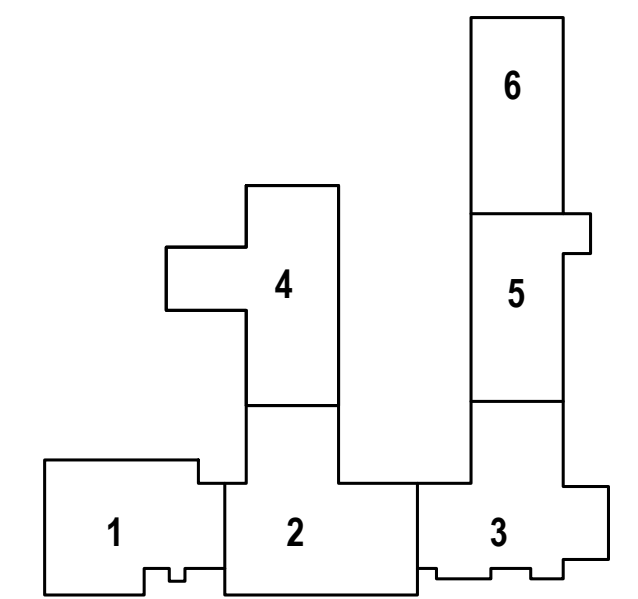
* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

5 DUCT SUPPORT DETAIL
M201 NOT TO SCALE

GENERAL:
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TRUE NORTH
PROJECT NORTH



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DETAILS - MECHANICAL

Date
MARCH 6, 2026
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M201

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25MIL23702

GENERAL NOTES			
GENERAL		SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDIES	
1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.		1. CONTRACTOR SHALL PROVIDE A SHORT CIRCUIT, ARC FLASH, AND COORDINATION STUDY (REFER TO SPECIFICATIONS), TO ACCURATELY PERFORM THE STUDIES. STUDIES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE EXISTING UTILITY TRANSFORMER, EXISTING GENERATOR, EXISTING SWITCHBOARDS, EXISTING PANELBOARDS, EXISTING CONDUIT AND WIRE, AND EXISTING MOTOR LOADS WHERE INDICATED ON SINGLE LINE / RISER DIAGRAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING EQUIPMENT MANUFACTURERS, THE UTILITY COMPANY, AND OWNER FOR INFORMATION ON EXISTING EQUIPMENT REQUIRED BY THE STUDIES.	
2. THE DRAWINGS AND SPECIFICATIONS ARE DIVIDED INTO SECTIONS TO MEET THE NEEDS OF THE ARCHITECT, THE ENGINEERS, AND THE DESIGN CONSULTANTS. THEY ARE NOT PREPARED AS INSTRUCTIONS TO THE CONTRACTOR FOR HOW TO BUY OUT OR SUBCONTRACT THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS, REGARDLESS OF WHERE IT IS SHOWN. FOR EXAMPLE, ELECTRICAL WORK IS SHOWN ON FP-SERIES DRAWINGS AS WELL AS ON M-SERIES DRAWINGS AND E-SERIES DRAWINGS. TO AVOID OMITTING ANY COMPONENT OF THE PROJECT, REFER TO ALL THE CONTRACT DOCUMENTS IN THEIR ENTIRETY.		OTHER TRADES EQUIPMENT WIRING:	
WIRING & RACEWAY:		1. UNLESS OTHERWISE INDICATED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED UNDER OTHER DIVISIONS AND INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.	
1. THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT, RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.		2. POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND/OR INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTIONS, IS THE WORK OF THIS DIVISION.	
2. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.		3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.	
3. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT LEFT FOR HORIZONTAL MOUNTING.		4. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' INSTRUCTIONS.	
4. LOCATE AND INSTALL ELECTRICAL EQUIPMENT, JUNCTION AND PULL BOXES, PANELBOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.		COORDINATION DRAWINGS:	
RACEWAY INSTALLATION:		1. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.	
1. IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.		A. SHEET METAL AND PLUMBING SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH OTHER DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.	
2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS.		B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:	
3. PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRINGS.		-MECHANICAL SHEET METAL -PLUMBING PIPING -MECHANICAL PIPING -ELECTRICAL WORK	
WIRING INSTALLATION:		2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.	
1. DO NOT USE WIRE SMALLER THAN NO. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:		3. THE ENGINEER IS NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.	
30 AMPERE CIRCUIT: NO. 10 40 AMPERE CIRCUIT: NO. 8 50 AMPERE CIRCUIT: NO. 6 60 AMPERE CIRCUIT: NO. 4		4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.	
A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FILL FOR 120 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:		5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.	
LENGTH CIRCUIT WIRE SIZE HOME RUN WIRE SIZE CONDUIT SIZE (8 WIRES/CONDUIT)		6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.	
0' TO 50' #12 #12 3/4"		7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.	
51' TO 100' #12 #10 3/4"		AS BUILT DRAWINGS	
101' TO 200' #10 #8 1"		1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.	
GREATER THAN 200' - REQUEST DIRECTION FROM ENGINEER.		2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:	
NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.		A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.	
B. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:		B. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.	
LENGTH CIRCUIT WIRE SIZE HOME RUN WIRE SIZE CONDUIT SIZE (8 WIRES/CONDUIT)		C. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.	
0' TO 100' #12 #12 3/4"		D. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.	
100' TO 200' #12 #10 3/4"		E. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.	
GREATER THAN 200' - REQUEST DIRECTION FROM ENGINEER.		F. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.	
NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.		G. SUBMIT AND PROVIDE TO OWNER AN 11" X 17" LAMINATED RISER DIAGRAM / SINGLE LINE DIAGRAM INDICATING ALL ELECTRICAL EQUIPMENT AMPACITIES AND VOLTAGES.	
2. DO NOT USE WIRE SMALLER THAN NO. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ENGINEER.		SHUTDOWNS	
3. WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310.		1. CONTRACTOR SHALL COORDINATE WITH OWNER TO SCHEDULE ALL SHUTDOWNS. LENGTH OF SHUTDOWNS SHALL BE AS MINIMAL AS POSSIBLE.	
4. CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.			
5. UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.			
6. THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS AT PANELBOARDS; HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:			
A. LOADS ON PANELBOARD BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.			
7. PROVIDE SEPARATE NEUTRALS FOR EACH CIRCUIT. WHERE MULTIPLE CIRCUITS ARE INSTALLED IN THE SAME RACEWAY OR ENCLOSURE, IDENTIFY NEUTRALS WITH CORRESPONDING BRANCH CIRCUIT PHASE CONDUCTOR NUMBERS.			
GROUNDING INSTALLATION:			
1. EQUIPMENT GROUNDING			
A. INSTALL AN INSULATED GROUND CONDUCTOR, RUN IN THE RACEWAY WITH THE PHASE CONDUCTORS, FOR EACH FEEDER SERVING: PANELBOARDS, MOTORS, EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED.			
B. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.			
C. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.			

ELECTRICAL SYMBOLS	
	DISCONNECT SWITCH - TOGGLE TYPE, MOTOR RATED, 1HP, 20A, 1P, U.O.N.
	DUPLEX CONVENIENCE RECEPTACLE - 18" AFF U.O.N.
	DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE - 18" AFF U.O.N.
	QUAD CONVENIENCE RECEPTACLE - 18" AFF U.O.N.
	WALL MOUNTED JUNCTION BOX
	CEILING MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH, # = SWITCH SIZE
	DISCONNECT SWITCH FURNISHED BY DIVISION 22/23, INSTALLED BY CONTRACTOR
	MOTOR, # = HORSEPOWER
	SURFACE MOUNTED PANELBOARD AND CLEARANCE
	CONDUCTOR
	EXISTING CONDUCTOR TO REMAIN
	EXISTING CONDUCTOR, EQUIPMENT, OR DEVICE TO BE DISCONNECTED AND REMOVED
	BRANCH CIRCUIT HOMERUN (X = PANELBOARD, # = CIRCUIT NO.)

DEMOLITION AND REMOVALS	
1. THE EXISTING FACILITY WILL BE OCCUPIED AND IN OPERATION DURING THE PERFORMANCE OF THE WORK.	
2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING FEEDER OR BRANCH CIRCUIT SUPPLYING OCCUPIED FACILITIES, CONFER WITH THE OWNER, AND SCHEDULE A MUTUALLY AGREEABLE PERIOD OF INTERRUPTION.	
3. WHERE REPLACEMENT, RELOCATION OR MODIFICATION OF EXISTING EQUIPMENT IS INDICATED, PROVIDE AND MAINTAIN ALL TEMPORARY FEEDERS, CONNECTIONS, CIRCUIT PROTECTION, AND ANY OTHER MATERIALS AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO OCCUPIED AREAS.	
4. NO WORK SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION.	
5. THE OWNER RESERVES THE RIGHT TO OPERATE ALL EXISTING ELECTRICAL AND MECHANICAL EQUIPMENT NOT INCLUDED IN THIS WORK, AND TO PERFORM ALL REQUIRED SERVICING AND REPAIRS TO SAME, AT ALL TIMES.	
6. IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED OPERATIONS OF THE BUILDING.	
7. IT IS THE INTENTION OF THESE SPECIFICATIONS TO PROVIDE FOR THE CONTINUANCE OF ALL ELECTRICAL SERVICES PRESENTLY INSTALLED IN THE UNALTERED AREAS. PROVIDE ALL CONDUIT, WIRING, AND DEVICES NECESSARY TO MAINTAIN SERVICES TO THESE AREAS.	
8. COMPARE THE PLANS WITH THE EXISTING CONDITIONS TO DETERMINE THE AMOUNT OF WORK AFFECTED. REMOVE ALL UNUSED EXPOSED CIRCUIT WORK, OUTLETS, FIXTURES AND THE LIKE NOT REQUIRED BY THE ALTERATIONS.	
9. ALL MATERIALS REQUIRED TO BE REMOVED AND NOT REINSTALLED UNDER THIS DIVISION OF THE WORK, UNLESS OTHERWISE INDICATED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE.	
10. WHERE FEEDERS AND BRANCH CIRCUITS OR DEVICES AND EQUIPMENT ARE INDICATED TO BE REMOVED, CONDUCTORS AND CABLES SHALL BE COMPLETELY REMOVED BACK TO THEIR SOURCE, OR IF APPLICABLE, BACK TO UPSTREAM ETR DEVICE. EXPOSED OR ACCESSIBLE CONDUITS SHALL BE REMOVED COMPLETELY; CONDUITS EMBEDDED IN CONCRETE OR MASONRY SHALL BE CUT OFF FLUSH AND THE SURFACE PATCHED SMOOTH AND LEVEL.	
11. WHERE DEVICES AND/OR EQUIPMENT ARE INDICATED TO BE RELOCATED, CONDUCTORS AND RACEWAY SHALL BE EXTENDED TO THE NEW LOCATION AND RECONNECTED TO PROVIDE A COMPLETE WORKING SYSTEM. IF THERE ARE ASSOCIATED DEVICES WITH THE RELOCATED EQUIPMENT THEY SHALL BE RELOCATED AS WELL, UNLESS OTHERWISE NOTED, AND CONNECTED INTO THE SYSTEM.	
12. REMOVED MATERIALS SHALL BE DISPOSED OF USING LICENSED CARTING SERVICE.	
13. HAZARDOUS MATERIALS - CONTAINING PCB'S (BALLASTS), AND THE LIKE SHALL BE DISPOSED OF BY AN EPA APPROVED, LICENSED DISPOSAL SERVICE. CONTRACTOR SHALL OBTAIN AND HAVE ON FILE, AFFIDAVIT, AND RECEIPTS STATING HOW AND WHERE THE WASTE WAS DISPOSED OF OR CONVERTED.	
14. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT IN OR ON WALLS THAT ARE TO BE REMOVED - MAINTAIN CONTINUITY OF ALL EXISTING BRANCH CIRCUITRY TO EXISTING ROOMS NOT BEING RENOVATED. REWIRE ALL EXISTING BRANCH CIRCUITS (THAT ARE TO REMAIN) AS REQUIRED.	
15. CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING SYSTEMS AND SYSTEM EQUIPMENT FEEDERS WHICH MAY BE DISRUPTED FOR WORK OF ANY TRADE.	
16. CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING ELECTRICAL (POWER, LIGHTING, AND SIGNAL) SYSTEMS, EQUIPMENT FEEDERS AND BRANCH CIRCUITS ON FLOORS OR AREAS THAT ARE NOT AFFECTED BY DEMOLITION OR NEW CONSTRUCTION.	
17. FOR PURPOSES OF THE CONTRACT, WHAT IS NOTED OR SHOWN ON DRAWINGS INDICATES THE SCOPE OF WORK REQUIRED AND QUALITY OF MATERIALS REQUIRED.	
18. CONTRACTOR TO EXAMINE ALL CONTRACT DOCUMENTS AND PERFORM ALL DEMOLITION BOTH FOR AREAS BEING RENOVATED AND FOR AREAS WHICH MUST BE REWORKED TO PERMIT THE INSTALLATION OF WORK BY THE VARIOUS TRADES.	
19. CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE EXTENT OF DEMOLITION AND REMOVALS PRIOR TO THE SUBMISSION OF BIDS. NO CONSIDERATION SHALL BE GIVEN FOR FAILURE TO VISIT THE SITE.	

ELECTRICAL DRAWING LIST	
DRAWING NUMBER	DRAWING DESCRIPTION
E001	COVER SHEET - ELECTRICAL
E100	FLOOR PLAN - SECTOR 1 - ELECTRICAL
E101	FLOOR PLAN - SECTOR 2 - ELECTRICAL
E102	FLOOR PLAN - SECTOR 4 - ELECTRICAL
E400	SINGLE LINE DIAGRAM AND PANEL SCHEDULE - ELECTRICAL

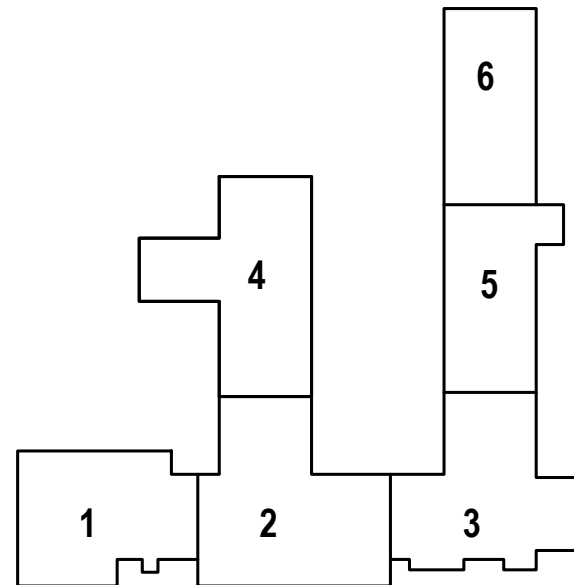
ELECTRICAL ABBREVIATIONS	
A	AMPERES
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
E.C.	ELECTRICAL CONTRACTOR
ER	EXISTING RELOCATED
ETBR	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
FBO	FURNISHED BY OTHERS
G	GROUND
GFP	GROUND FAULT PROTECTION
JB	JUNCTION BOX
MCB	MAIN CIRCUIT BREAKER
MILO	MAIN LUG ONLY
MTD	MOUNTED
PNL	PANEL
SPD	SURGE PROTECTION DEVICE
TW/SH	TWISTED SHIELD
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
WP	WEATHER PROOF

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA. CONTRACTOR TO CONTACT: - CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER



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www.kohleronan.com
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REVISION

No.	Description	Date
	Construction Documents	3/6/26

Drawn by: CD	
App'd by: RM	
Scale: NONE	
File as:	

**STATE OF CONNECTICUT
MILITARY DEPARTMENT
FACILITIES MANAGEMENT**
OFFICE
360 BROAD STREET HARTFORD, CT
06105
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Project

**CSMS Compressor
Replacement, Camp Hartell**

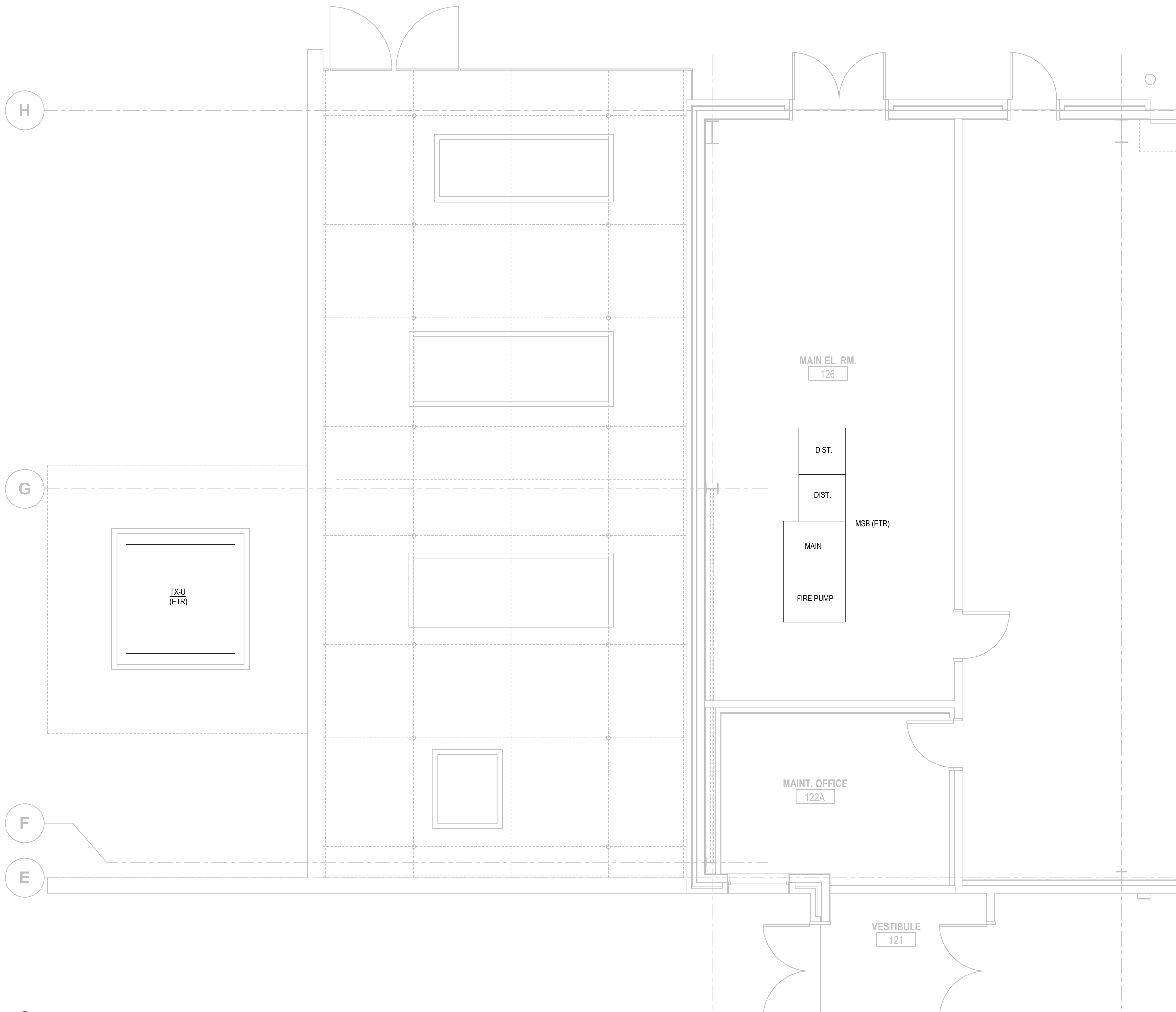
542 North Street, Windsor Locks, CT 06096

Drawing Title

**COVER SHEET -
ELECTRICAL**

Date	Drawing NUMBER
MARCH 6, 2026	E001

TRACKING NUMBER
25MIL23702



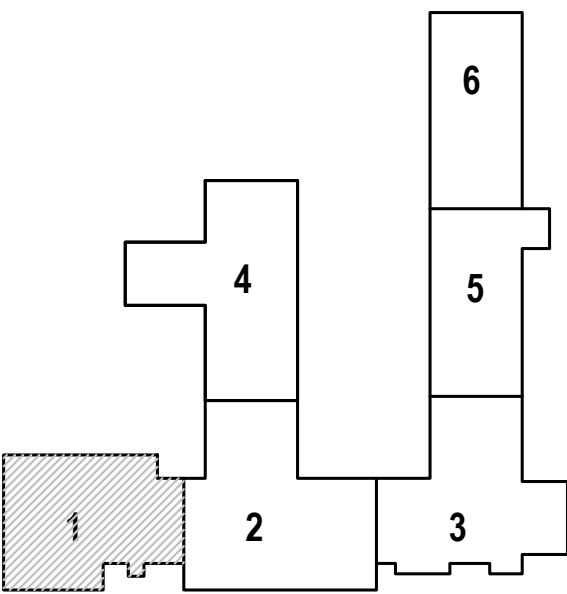
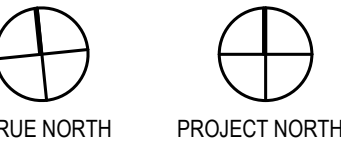
1 FLOOR PLAN - SECTOR 1
E100 SCALE: 1/4"=1'-0"

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE
ALL
EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
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KEY PLAN



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REVISION

No.	Description	Date
1	Construction Documents	3/6/26

Drawn by: CD
App'd by: RM
Scale: 1/4" = 1'-0"
File as:



Project
CSMS Compressor Replacement, Camp Hartell
542 North Street, Windsor Locks, CT 06096

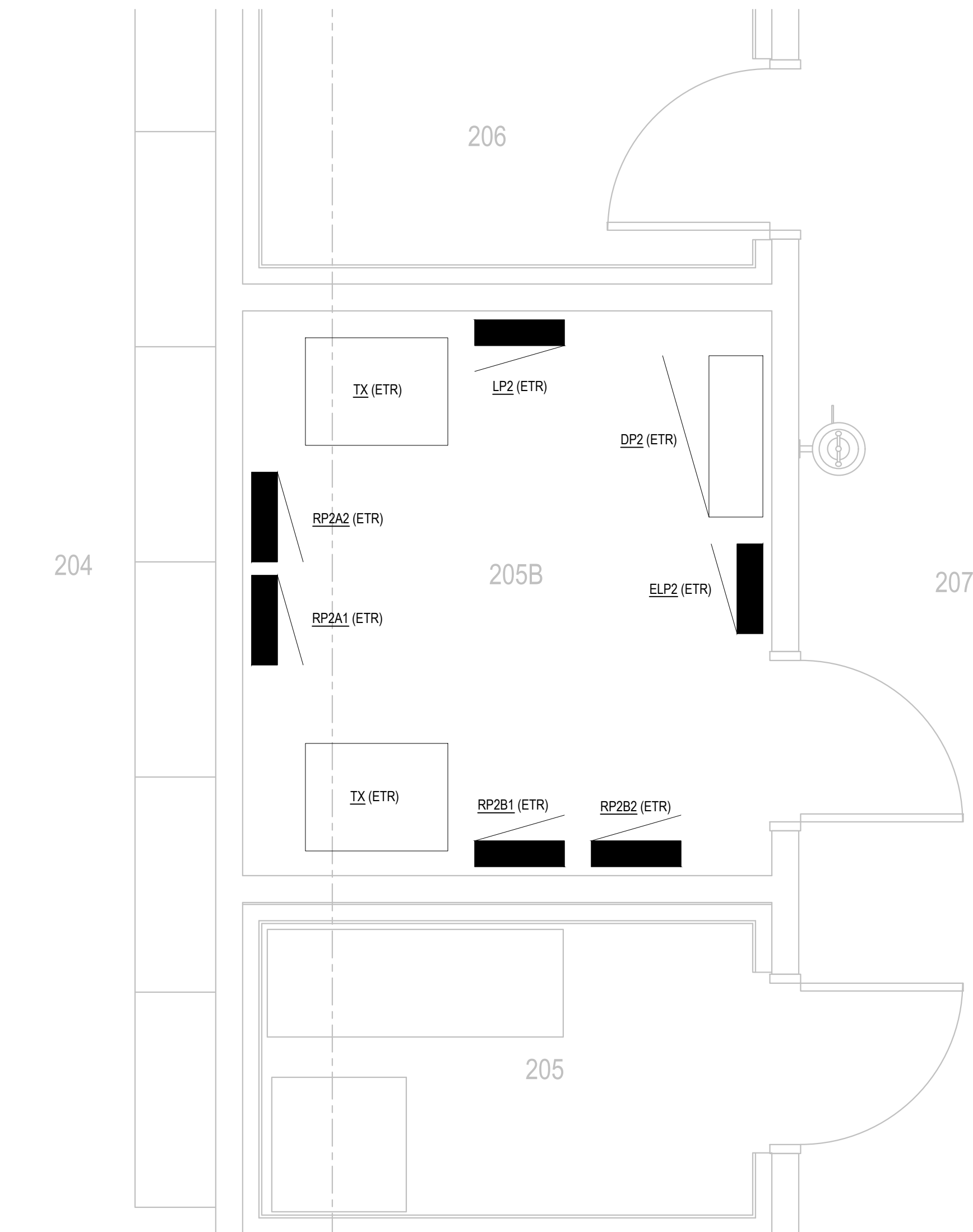
Drawing Title
FLOOR PLAN - SECTOR 1 - ELECTRICAL

Date
MARCH 6, 2026

Drawing NUMBER

E100

TRACKING NUMBER
25MIL23702



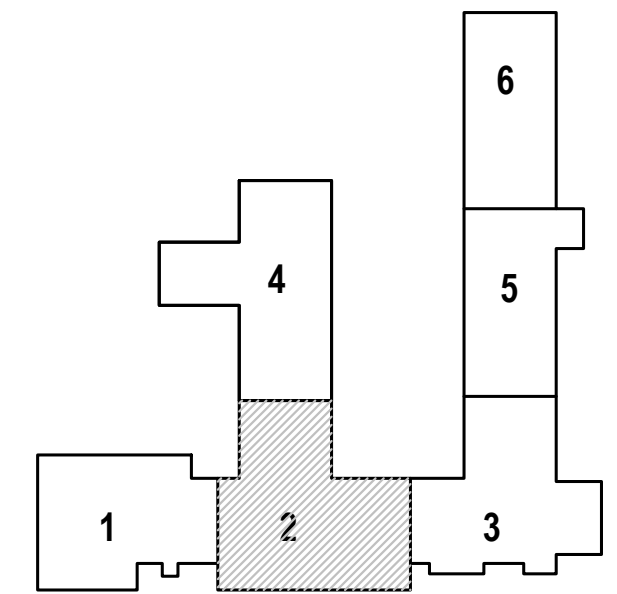
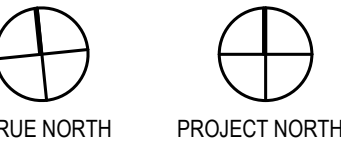
1 FLOOR PLAN - SECTOR 2
E101 SCALE: 1/2"=1'-0"

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
- CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER

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REVISION

No.	Description	Date
	Construction Documents	3/6/26

Drawn by: CD
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Scale: 1/2" = 1'-0"
File as:



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Project
**CSMS Compressor
Replacement, Camp Hartell**
542 North Street, Windsor Locks, CT 06096

Drawing Title
**FLOOR PLAN - SECTOR 2 -
ELECTRICAL**

Date
MARCH 6, 2026

Drawing NUMBER

E101

TRACKING NUMBER
25MIL23702

- DEMOLITION KEY NOTES
- 1

DISCONNECT AND REMOVE EXISTING RECEPTACLE AND COVER PLATE. BACKBOX, CONDUIT AND WIRE SHALL REMAIN. PROVIDE GFCI RECEPTACLE AND CONNECT TO EXISTING WIRE. PROVIDE COVER PLATE.
- 2

EXISTING FEEDER SHALL BE USED FOR TEMPORARY POWER TO TEMPORARY EQUIPMENT. DISCONNECT AND REMOVE ALL FINAL CONNECTIONS, OUTLETS, CONDUIT AND WIRE FOR HVAC EQUIPMENT BACK TO EXISTING TO REMAIN DISCONNECT SWITCH.
- 3

ELECTRICAL CONTRACTOR SHALL MAINTAIN/RECONNECT ALL EXISTING BRANCH CIRCUIT WIRING DISTURBED DURING CONSTRUCTION BUT OUTSIDE OF AREA.
- 4

DISCONNECT AND REMOVE ALL FINAL CONNECTIONS, OUTLETS, CONDUIT AND WIRE BACK TO EXISTING TO REMAIN DISCONNECT SWITCH.
- 5

DISCONNECT AND REMOVE ALL FINAL CONNECTIONS, DISCONNECT SWITCHES, OUTLETS, CONDUIT, AND WIRE FOR HVAC EQUIPMENT BACK TO EXISTING TO REMAIN JUNCTION BOX.

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.

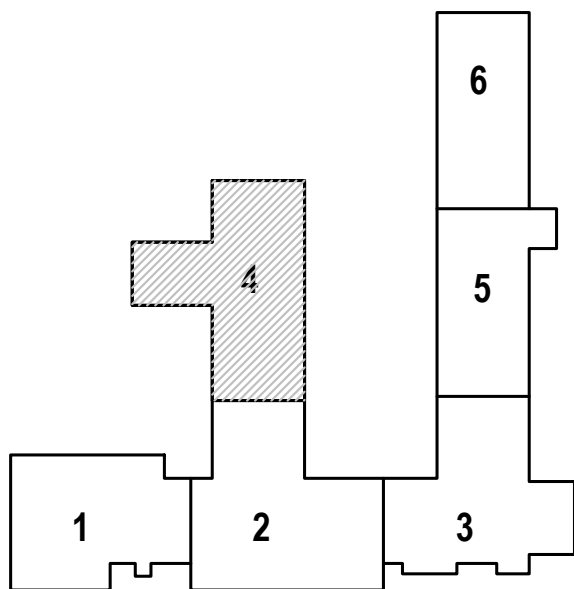
CONTRACTOR TO CONTACT:

- CALL BEFORE YOU DIG @ 811



KEY PLAN

TRUE NORTH PROJECT NORTH



ARCHITECT/ENGINEER

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E-mail: krc@kohleron.com

KOHLER RONAN, LLC
CONSULTING ENGINEERS

REVISION		
No.	Description	Date
1	Construction Documents	3/6/26

Drawn by: CD
App'd by: RM
Scale: 1/2" = 1'-0"
File as:

NORTH

STATE OF CONNECTICUT
MILITARY DEPARTMENT
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Project

CSMS Compressor Replacement, Camp Hartell

542 North Street, Windsor Locks, CT 06096

Drawing Title

FLOOR PLAN - SECTOR 4 - ELECTRICAL

Date
MARCH 6, 2026

Drawing NUMBER
E102

TRACKING NUMBER
25MIL23702

TEMPORARY 75 HP COMPRESSOR

5.8

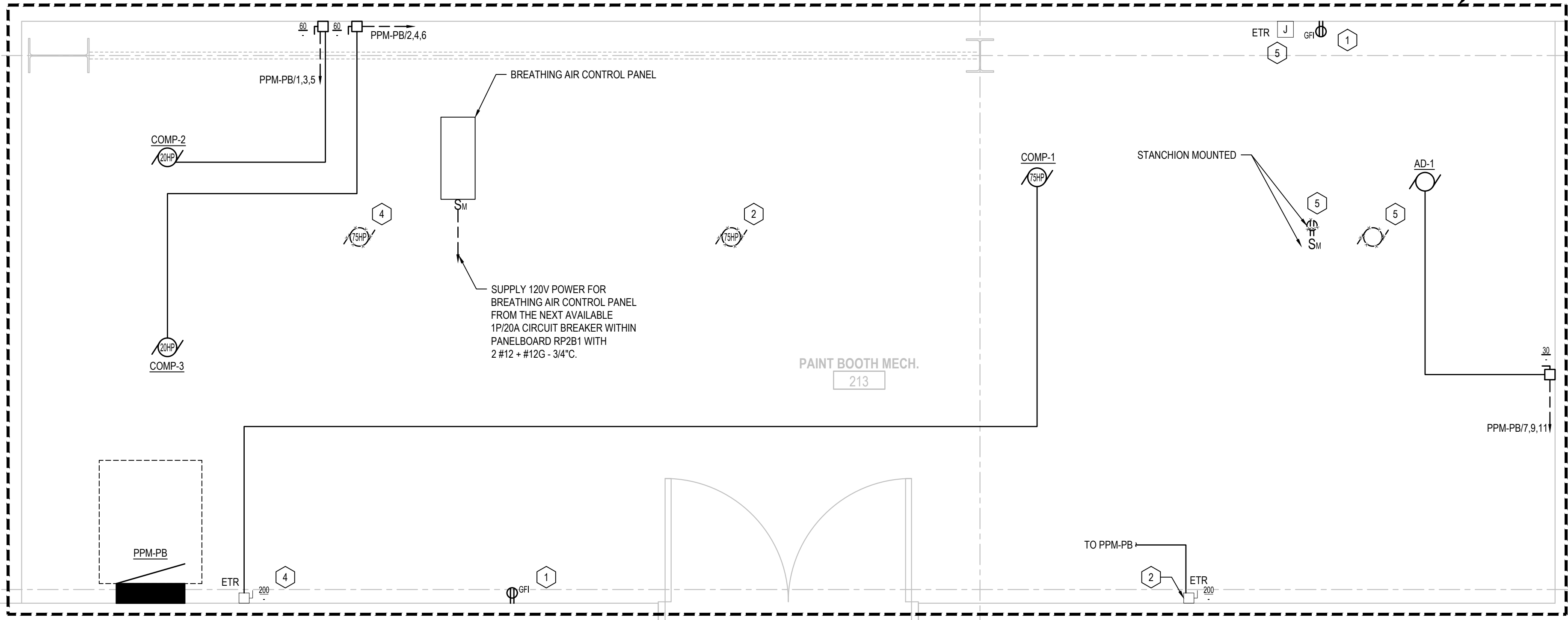
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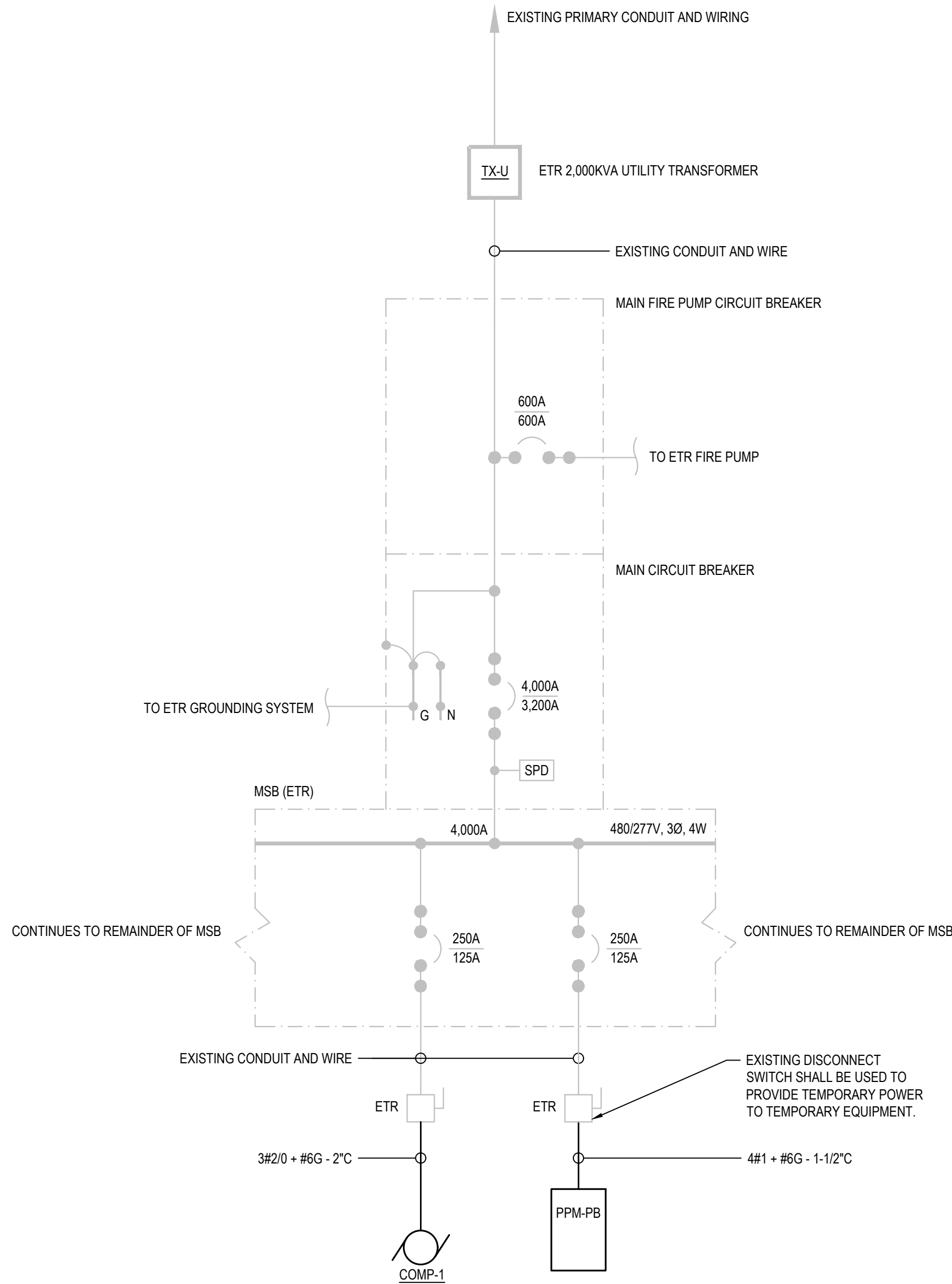
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P.6

1 FLOOR PLAN - SECTOR 4
E102A SCALE: 1/2"=1'-0"





1 SINGLE LINE DIAGRAM
E400 SCALE: NONE

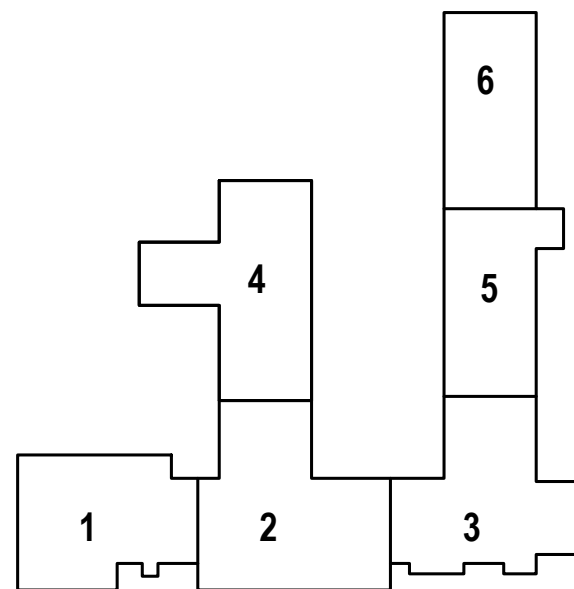
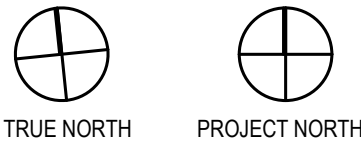
480/277V, 3 PHASE, 4 WIRE 22,000 A.I.C.										PPM-PB										125A MLO 125A BUS	
LOAD SERVED		WIRE & CONDUIT		TRIP	POLE	LOAD IN VOLT-AMPERES						POLE	TRIP	WIRE & CONDUIT		LOAD SERVED					
						ØA		ØB		ØC											
1	COMP-2	3#6 + #10G - 1" C	50	3	7756	7756					3	50	3#6 + #10G - 1" C	COMP-3		2					
3							7756	7756									4				
5									7756	7756									6		
7	AD-1	3#12 + #12G - 3/4" C	15	3	757						1	20	-	SPARE		8					
9							757						1	20	-	SPARE		10			
11										757					1	20	-	SPARE		12	
13	SPARE	-	20	1							1	20	-	SPARE		14					
15	SPARE	-	20	1							1	20	-	SPARE		16					
17	SPARE	-	20	1							1	20	-	SPARE		18					
19	SPACE	-	-	1							1	-	-	SPACE		20					
21	SPACE	-	-	1							1	-	-	SPACE		22					
23	SPACE	-	-	1							1	-	-	SPACE		24					
SURFACE MTD NEMA 1		LOAD PER PHASE			16,269		16,269		16,269												
		TOTAL =			48,807 VA																

GENERAL:

CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES IN PROJECT AREA.
CONTRACTOR TO CONTACT:
- CALL BEFORE YOU DIG @ 811



KEY PLAN



ARCHITECT/ENGINEER



93 Lake Avenue, 3rd Floor
Danbury, CT 06810
203.778.1017 F 203.778.1018
102 Madison Avenue, 10th Floor
New York, NY 10016
212.695.2422 F 212.695.2423
www.kohleronan.com
E-mail: krc@kohleronan.com

REVISION

No.	Description	Date
	Construction Documents	3/6/26

Drawn by: CD
App'd by: RM
Scale: NONE
File as:



Project
CSMS Compressor Replacement, Camp Hartell
542 North Street, Windsor Locks, CT 06096

Drawing Title
SINGLE LINE DIAGRAM & PANEL SCHEDULE - ELECTRICAL

Date
MARCH 6, 2026

Drawing NUMBER

TRACKING NUMBER
25MIL23702

E400