



PROJECT:

Oakdale Irrigation District – Metal Building Bid
Package 2.1
1110 Kaufman Road, Oakdale, CA

Date: 04/06/2022

TETER Project No.: A 18-10850 D

CLIENT:

Oakdale Irrigation District
1205 East 'F' Street
Oakdale, CA 95361

The following additions, deletions and revisions to the plans, specifications and Addenda shall become a part of the plans and specifications. It is the responsibility of the General Contractor to submit the information contained in this addendum to all subcontractors and suppliers. The Bidder shall acknowledge receipt of the Addendum in the Bid Proposal. (Addendum number of pages: 7 total pages)

CLARIFICATIONS:

2 – 01: METAL SOFFIT PANELS:

- A. Specifications call for a metal soffit panel. 2.7. Plans do not show a location for the soffit panel. Please clarify.

Response: Specification section 12 34 19 Metal Building Systems, subsection 2.6 “Metal Soffit Panels” to be removed in its entirety. There are no metal soffit panels on this project. The underside of all exterior overhangs is to be left exposed to the structure.

2 – 02: TRANSLUCENT ROOF PANELS:

- A. Specifications 2.9 call for a Translucent Roof Panel. Please clarify location on plans if required.

Response: OID confirms there are to be NO translucent roof panels on any of the metal buildings.

2 – 03: ROOF MOUNTED EQUIPMENT:

- A. Sheet S001 calls for loading for roof mounted mechanical units. Need location and weights.

Response: There are no roof-mounted mechanical units on any of the metal buildings.

ADDENDUM NO. 2

Oakdale Irrigation District – Metal Building Bid Package 2.1
Page 2

2 – 04: METAL BUILDING ACCESSORIES:

- A. Specifications Section 2.10 list accessories ridge ventilators, louvers, roof curbs, pipe flashings. Need location and information.

Response: Refer to Supplemental Drawings SD-P01 thru SD-P03 and SD-M01 thru SD-M02 for locations of proposed mechanical and plumbing elements associated with the metal building exterior walls/roof.

2 – 05: MISCELLANEOUS CLARIFICATIONS:

- A. Bid documents call for the PEMB to be FOB jobsite. Will the district unload and inventory all materials?

Response: OID confirms that the district will unload and inventory all materials.

END OF ADDENDUM NO. 2



Erin Martin
Architect of Record

PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
SGV-1	SEISMIC GAS VALVE	----	----	----	----	PACIFIC SEISMIC PRODUCTS CALIFORNIA VALVE #316F, 4" FLANGED HORIZONTAL EARTHQUAKE VALVE.

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

- MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
- MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13, MASON WEST INDUSTRIES.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
—	ABOVE	ABV
—	ABOVE CEILING	ABV CLG
—	ABOVE FINISHED FLOOR	AFF
—	ALTERNATE	ALT
&	AND	
ARCHITECT / ARCHITECTURAL	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
—	BELOW FLOOR	BEL FLR
—	BELOW GRADE	BEL GR
—	CALIFORNIA MECHANICAL CODE	CMC
—	CALIFORNIA PLUMBING CODE	CPC
—	CEILING	CLG
CL	CENTER LINE	
CONT	CONTINUATION	
CFH	CUBIC FEET PER HOUR	
DIA	DIAMETER	
DN	DOWN	
DWG	DRAWING	
ELL	ELBOW	
ELEC	ELECTRICAL	
(E)	EXISTING	
FT	FEET	
FLR	FLOOR	
FL	FLOW LINE	
GAL	GALLON	
GPH	GALLONS PER HOUR	
GPM	GALLONS PER MINUTE	
GA	GAUGE	
ID	INSIDE DIAMETER	
I.E.	INVERT ELEVATION	
MAX	MAXIMUM	
MIN	MINIMUM	
(N)	NEW	
NIC	NOT IN CONTRACT	
NTS	NOT TO SCALE	
NO.	NUMBER	
OD	OUTSIDE DIAMETER	
LBS	POUNDS	
PSI	POUNDS PER SQUARE INCH	
PSIA	POUNDS PER SQUARE INCH ABSOLUTE	
PSIG	POUNDS PER SQUARE INCH GAUGE	
PVC	POLYVINYL CHLORIDE	
RM	ROOM	
SPEC	SPECIFICATION	
SQ FT	SQUARE FEET	
SS	STAINLESS STEEL	
TEMP	TEMPERATURE	
THRU	THROUGH	
(TYP)	TYPICAL	
U/G	UNDER GROUND	
WC	WATER COLUMN	
W	WITH	
W/O	WITHOUT	
A	COMPRESSED AIR	
AV	ACID VENT	
AW	ACID WASTE	
AVR	ACID VENT RISER	
AVTR	ACID VENT THRU ROOF	
CD	CONDENSATE DRAIN	
CW	DOMESTIC COLD WATER	
HW	DOMESTIC HOT WATER	
HWR	DOMESTIC HOT WATER RETURN	
G	LOW PRESSURE NATURAL GAS	
HPG	HIGH PRESSURE GAS	
ICW	INDUSTRIAL COLD WATER	
LPG	LIQUIFIED PETROLEUM GAS	
F	FIRE PROTECTION LINE	
RWL	RAIN WATER LEADER	
OD	OVERFLOW DRAIN	
SD	STORM DRAIN	
S or W	SOIL or WASTE	
MA	MEDICAL AIR	
O ₂	OXYGEN	
VAC	VACUUM	
V	VENT	
VR	VENT RISER	
VTR	VENT THRU ROOF	
COTG	CLEANOUT TO GRADE	
DEMO	DEMOLITION	
FCO	FLOOR CLEANOUT	
H	HOSE BIBB	
PU	PIPING TURN UP	
PD	PIPING TURN DOWN	
PC	PIPING CAP	
POC	POINT OF CONNECTION TO EXISTING	
AV	ANGLE VALVE	
BV	BALANCE VALVE	
BV	BALL VALVE	
CV	CHECK VALVE	

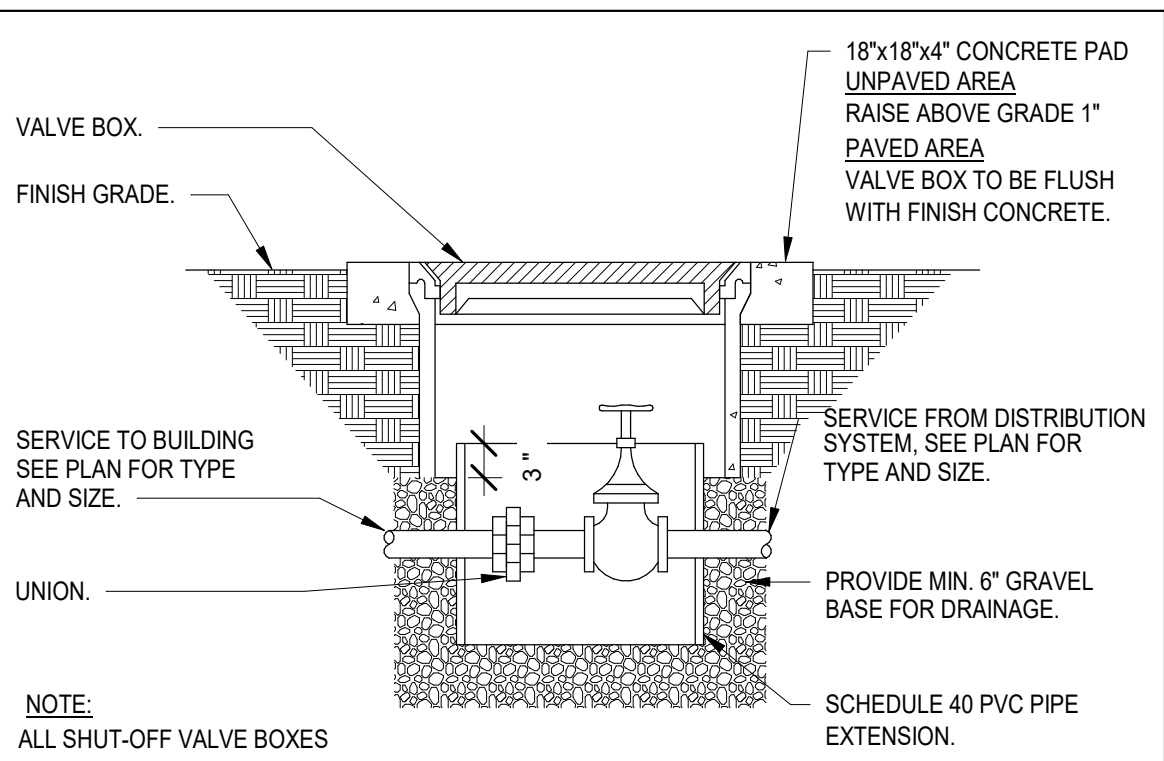
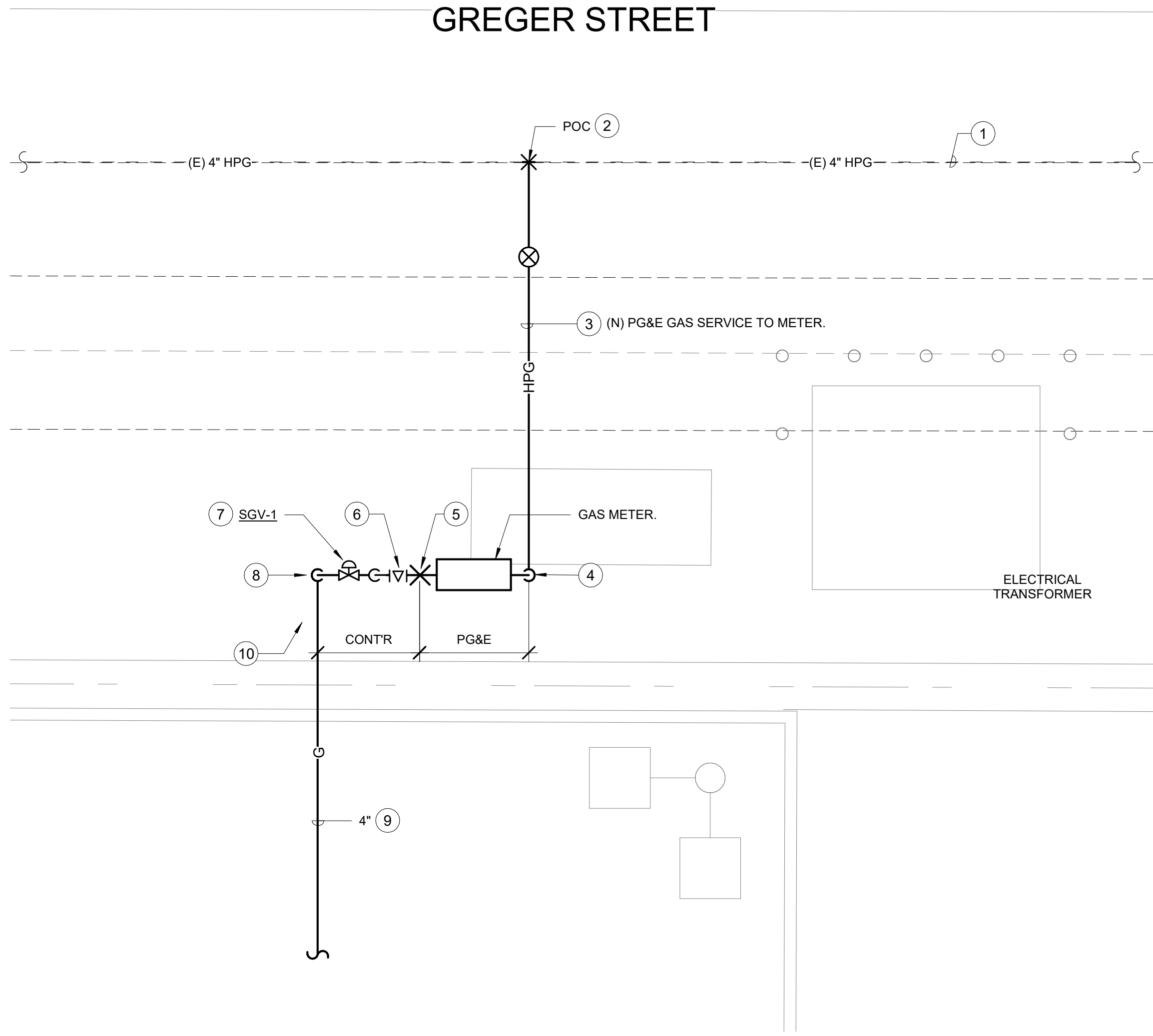
SYMBOL	ITEM	ABBR.
—	CONCENTRIC REDUCER	
—	TWO-WAY CONTROL VALVE	
—	PLUG VALVE	
—	PRESSURE REDUCING VALVE	
—	SHUT-OFF VALVE IN BOX	SOV
—	SHUT-OFF VALVE	SOV
—	THERMOSTATIC MIXING VALVE	
—	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
—	UNION	
—	WALL CLEANOUT	WCO
—	"Y" TYPE STRAINER	
—	PRESSURE GAUGE	
—	TEMPERATURE GAUGE	
—	KEYNOTE	
2	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202	
3	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	

GENERAL NOTES

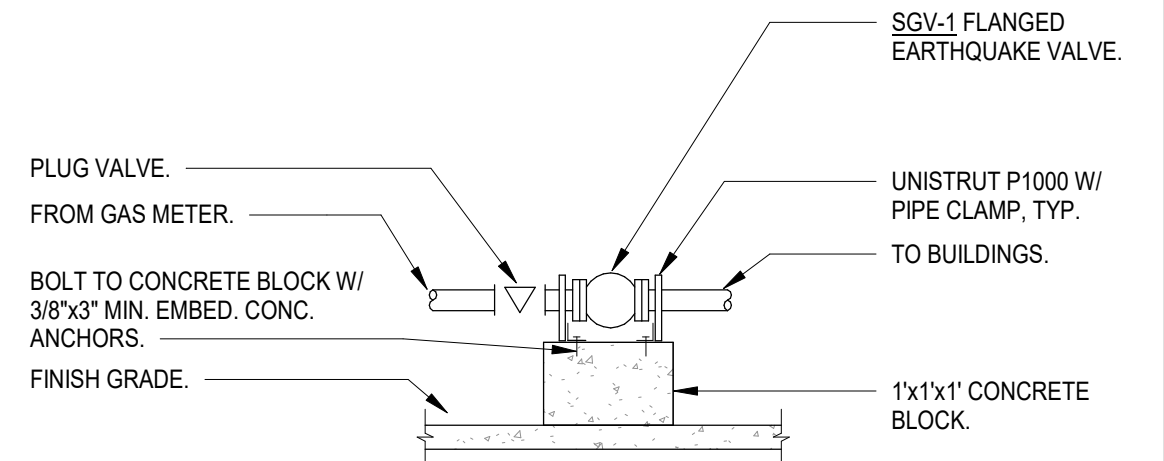
- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
- ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
- MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
- ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
- MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.

PLUMBING SHEET INDEX

- P001 PLUMBING SCHEDULES, LEGENDS, NOTES, AND DETAILS - PHASE 1
- P100 PLUMBING SITE PLAN - PHASE 1



SOV IN BOX N.T.S. 2



SEISMIC GAS SHUT-OFF VALVE N.T.S. 3

KEYNOTES

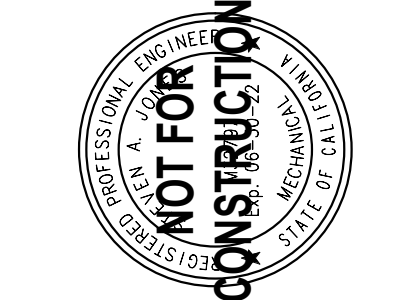
- (E) PG&E GAS MAIN APPROXIMATELY 4' SOUTH OF STREET CENTERLINE.
- POINT OF CONNECTION TO (E) 4" GAS IN STREET BY PG&E.
- (N) 1-1/4" GAS SERVICE INSTALLED BY PG&E.
- 1-1/4" PG&E GAS SERVICE RISER.
- P.O.C. TO CUSTOMER SIDE OF GAS METER W/ 6" GAS PIPE.
- 4" FLANGED PLUG VALVE.
- 4" FLANGED EARTHQUAKE VALVE. SEE DETAIL 3/P001.
- 4" GAS DN. TO BELOW GRADE & TRANSITION TO PE GAS PIPE.
- 4" GAS TO BUILDINGS. SEE P100 FOR SITE CONTINUATION.
- CONCRETE PAD BELOW METER SET BY SITE CONTRACTOR. VERIFY EXACT SIZE WITH PG&E.



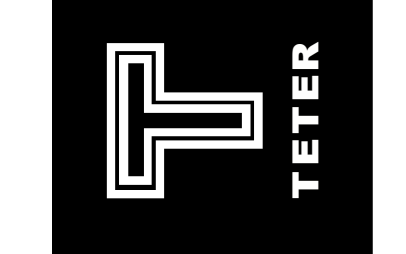
1/4" = 1'-0" 1

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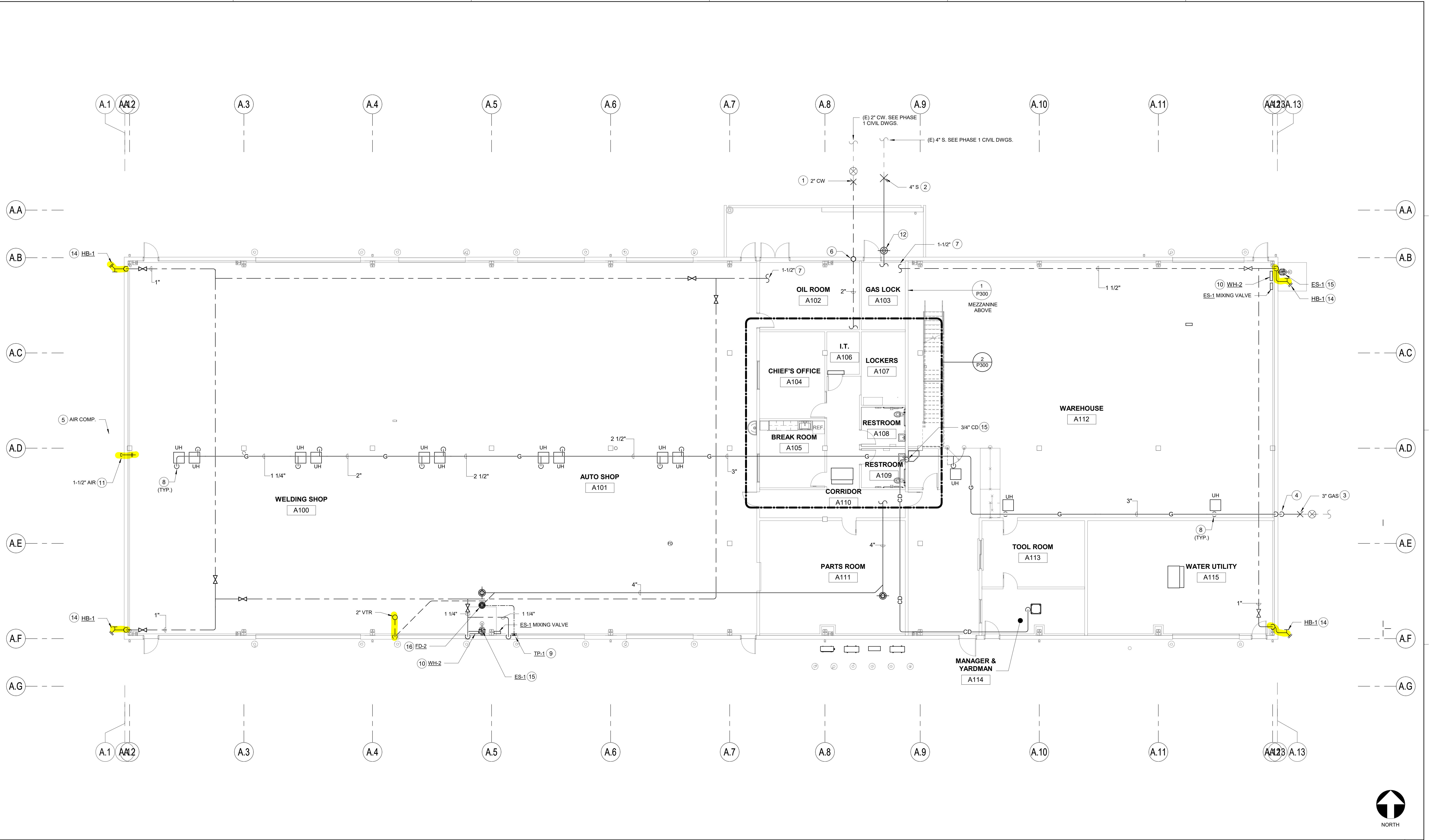


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18-10850
 DRAWING
P001

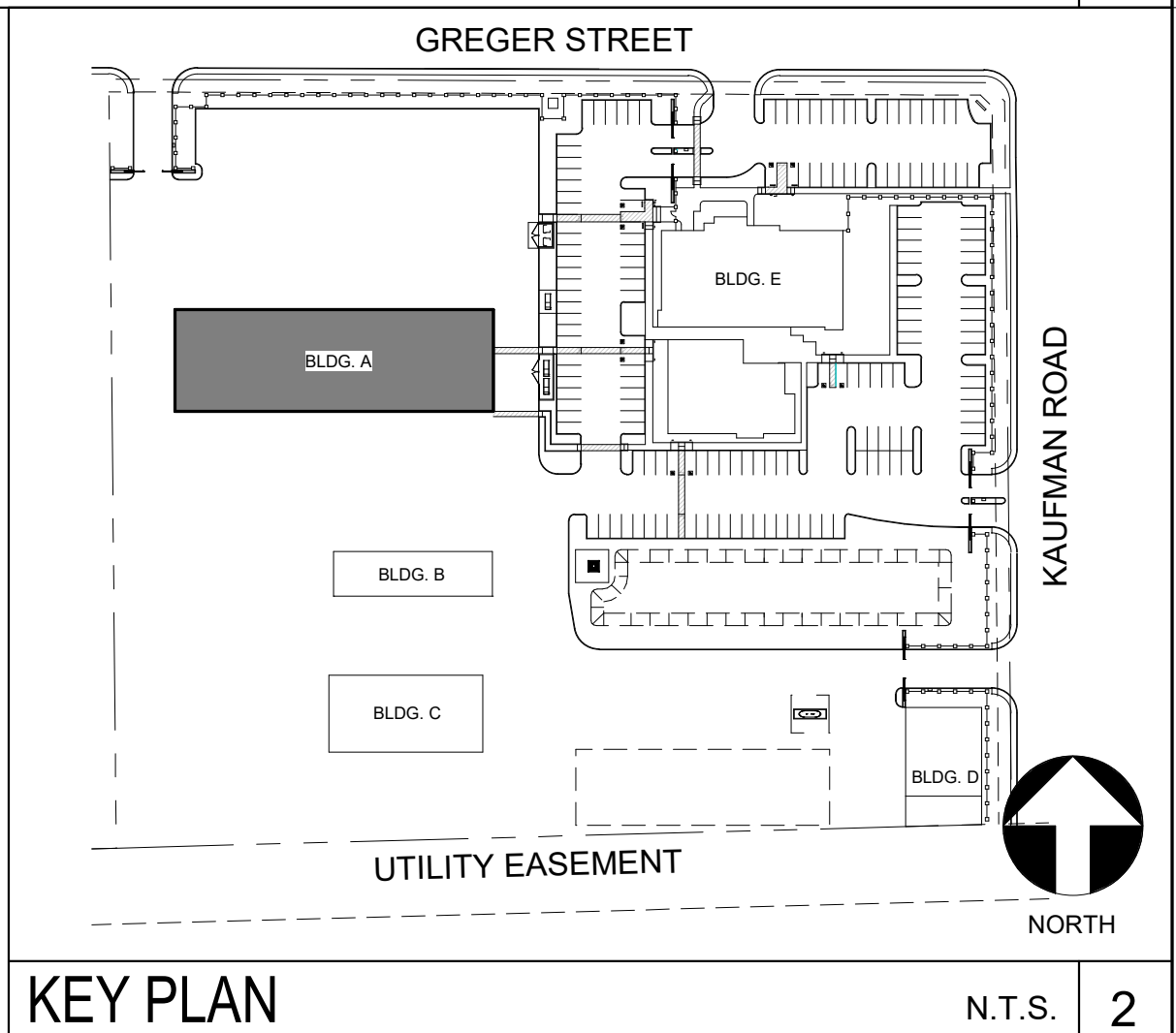


PLUMBING PLAN - BLDG A

1/8" = 1'-0" 1

KEYNOTES

- | | |
|---|--|
| <p>1 P.O.C. TO (E) CAPPED 2" DOMESTIC WATER BEL. GR. AT 5'-0" OUTSIDE BLDG. SEE PHASE 1 CIVIL UTILITY PLAN FOR SITE CONTINUATION.</p> <p>2 P.O.C. TO (E) CAPPED 4" SANITARY SEWER BEL. GR. VERIFY EXACT LOCATION. SEE PHASE 1 CIVIL UTILITY PLAN FOR SITE CONTINUATION.</p> <p>3 P.O.C. TO (E) CAPPED 3" GAS BEL. GR. AT 5'-0" OUTSIDE BLDG. SEE PHASE 1 SITE PLAN P100 FOR SITE CONTINUATION.</p> <p>4 3" GAS UP FROM BEL. GR., OFFSET THRU WALL AND RISE TO OVERHEAD HIGH AS POSSIBLE.</p> <p>5 AIR COMPRESSOR LOCATION. AIR COMPRESSOR IS OWNER FURNISHED, OWNER INSTALLED.</p> <p>6 2" CW RISER, BRANCH 2" CW BEL. MEZZANINE ABV. CLG. RISE W/ 1-1/2" CW TO OVERHEAD AT MEZZANINE HIGH AS POSSIBLE.</p> <p>7 CW OVERHEAD. SEE MEZZANINE PLAN 1/P300 FOR CONT.</p> <p>8 1" GAS DN. & CONNECT TO SUSPENDED UNIT HEATER W/ SOV & DIRT LEG PER DETAIL 4/P800. (TYP)</p> | <p>9 3/4" CW DN. TO ELECTRONIC TRAP PRIMER @ +12" AFF. PROVIDE SOV. ROUTE 1/2" CW LINE BEL. FLR. FROM TP-1 TO FD-2.</p> <p>10 ELECTRIC INSTANTANEOUS WATER HEATER MOUNTED ON WALL FOR EMERGENCY SHOWER. SEE DETAIL 9/P800 AND 11/P800.</p> <p>11 1-1/2" AIR LINE STUB INTO SHOP W/ QUICK COUPLER FITTING. CAP OTHER END AT AIR COMPRESSOR LOCATION.</p> <p>12 4" CLEANOUT TO GRADE. SEE 2/P800 FOR DETAIL. (TYP)</p> <p>13 3/4" CD DN & CONNECT TO TAILPIECE OF LAVATORY.</p> <p>14 3/4" CW DN TO EXTERIOR HOSE BIBB AT +12" AFF.</p> <p>15 EMERGENCY SHOWER. SEE DETAIL 9/P800 FOR PIPING.</p> <p>16 3" S W/ P-TRAP & 2" V OFFSET BEL. FLR. AND 1/2" CW TRAP PRIMER CONNECTION FOR FLOOR DRAIN.</p> |
|---|--|



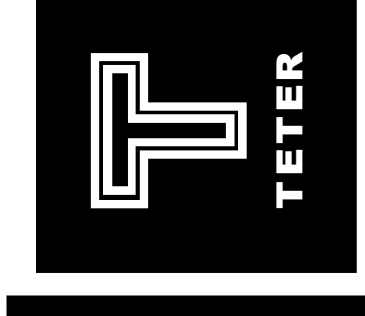
KEY PLAN N.T.S. 2

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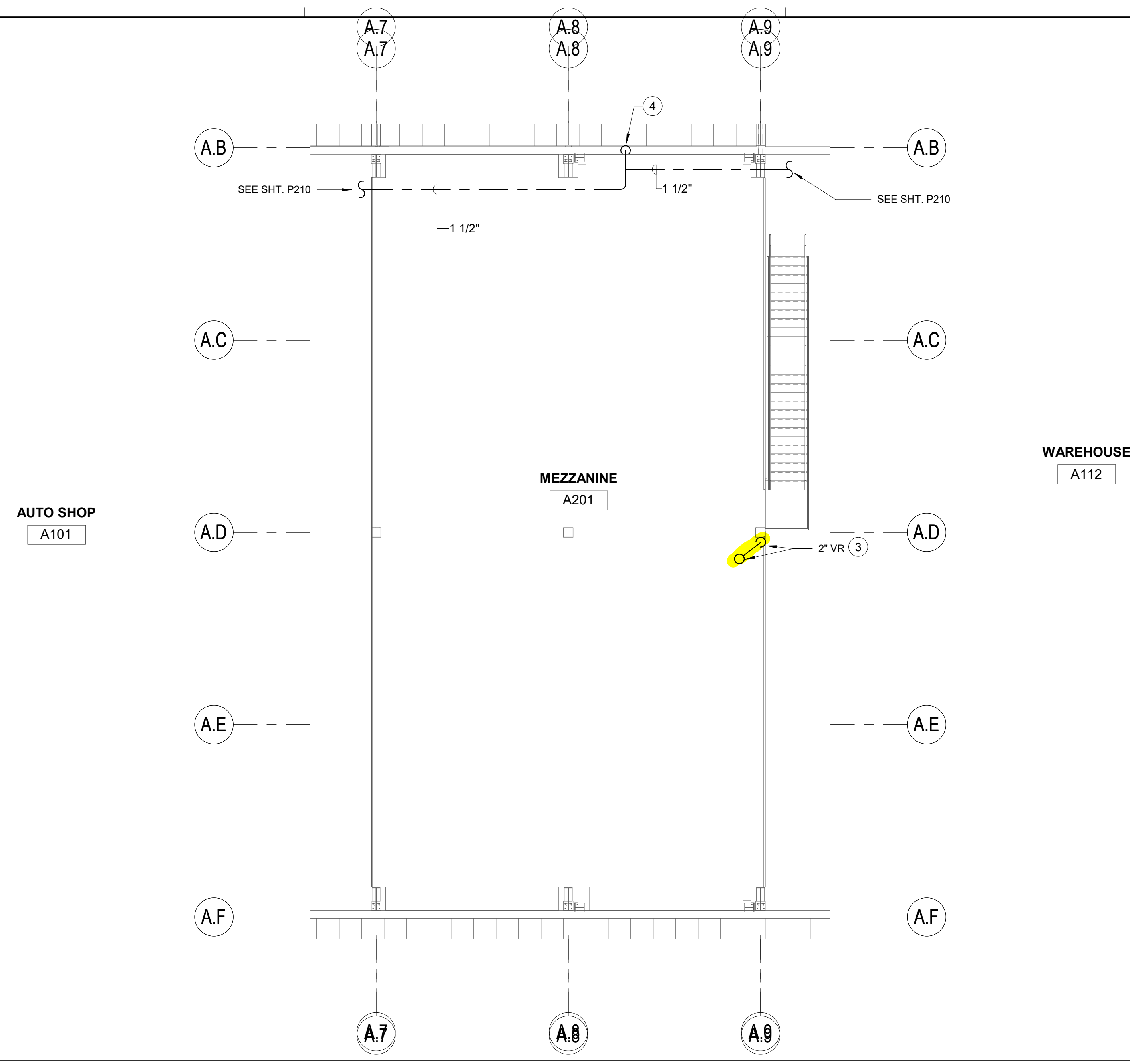
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 AUTO SHOP AND WAREHOUSE PLUMBING PLAN - BLDG A

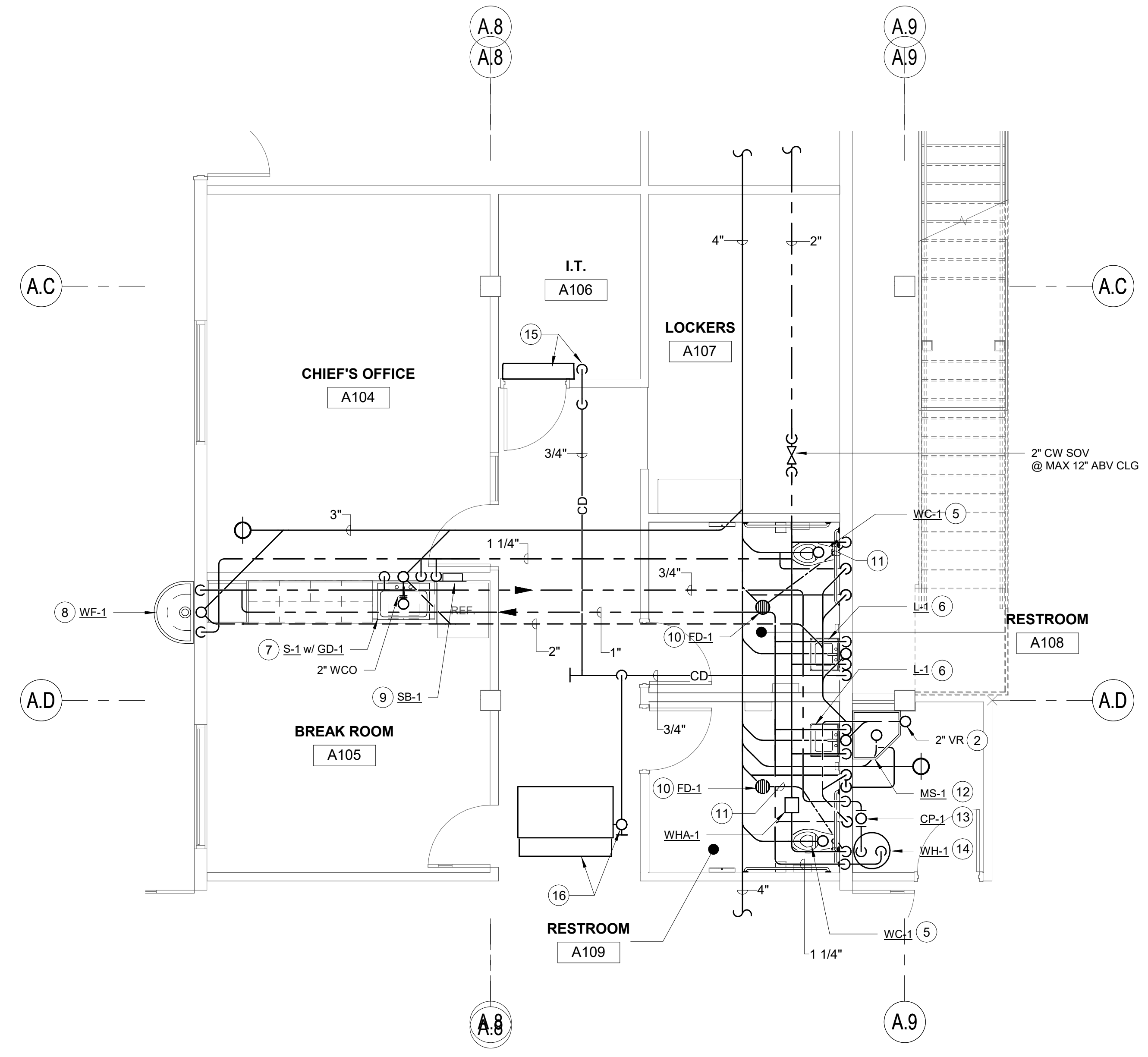
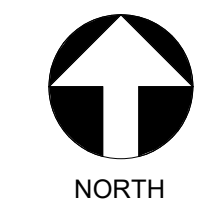
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 DRAWING: P210

SD-P02



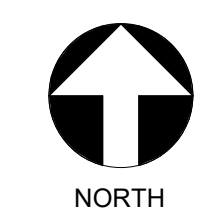
PLUMBING PLAN - BLDG A MEZZANINE

1/8" = 1'-0" 1



ENLARGED PLUMBING PLAN - BLDG A

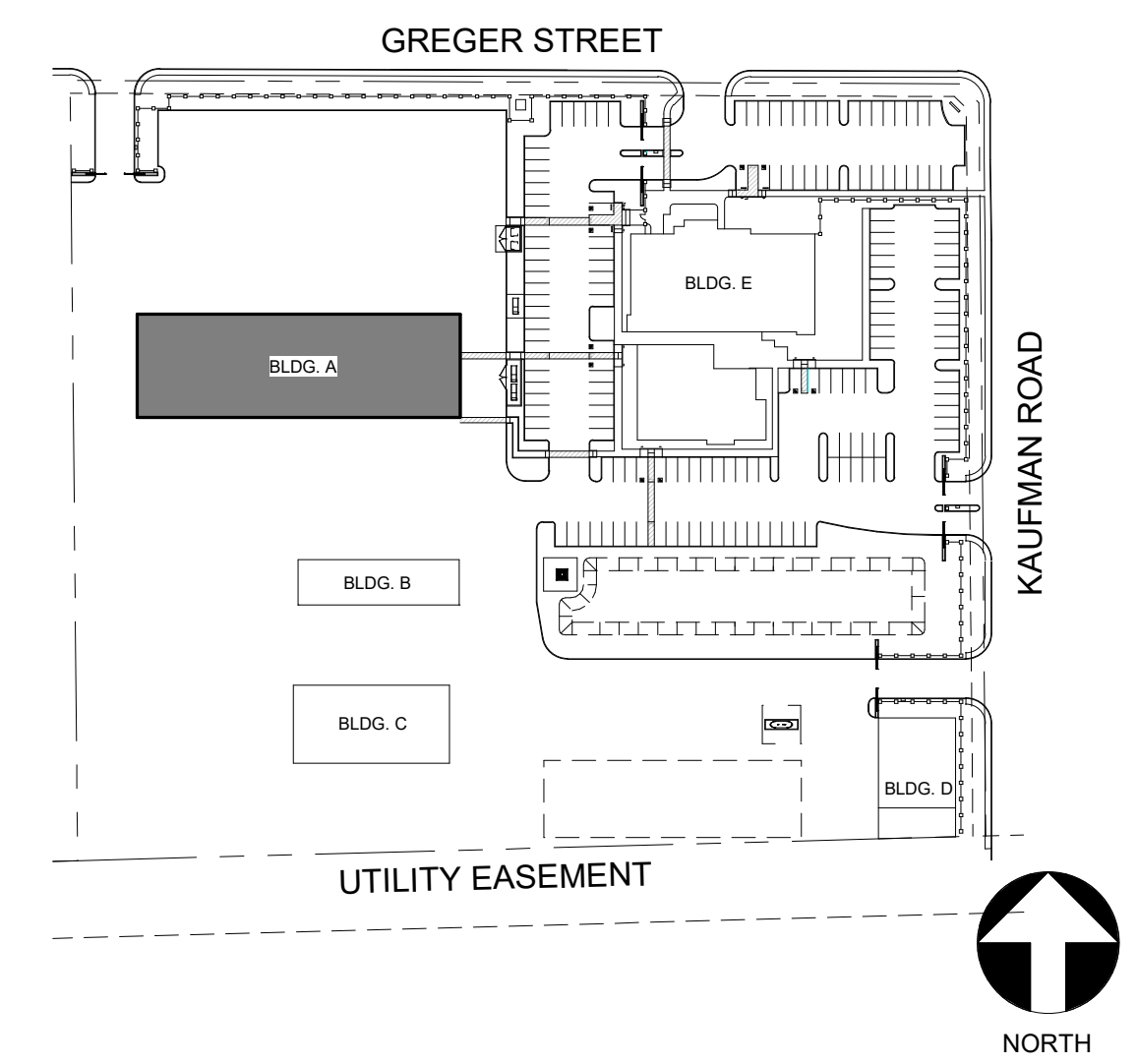
1/4" = 1'-0" 2



KEYNOTES

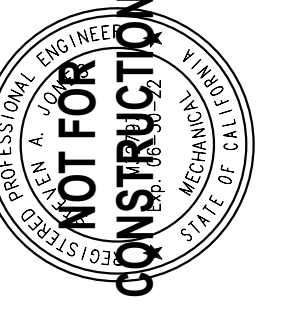
- 1 40 GALLON ELECTRIC WATER HEATER. SEE DETAIL 6/P801.
- 2 2" VR UP TIGHT TO COLUMN. SEE 1/P300 MEZZANINE PLAN.
- 3 2" VR UP FROM BELOW. ATTACH TO COLUMN. OFFSET HIGH AS POSSIBLE AND VTR.
- 4 1-1/2" CW FROM BELOW.
- 5 1-1/2" CW DN., 4" S DN. W/ 2" VR FOR WATER CLOSET.
- 6 1/2" CW & HW DN., 2" S DN., & 1-1/2" VR FOR LAVATORY.
- 7 3/4" CW & HW DN., 2" S DN. W/ WCO. & 1-1/2" VR FOR SINK.
- 8 3/4" CW & HW DN., 2" S DN., & 1-1/2" FOR WASH FOUNTAIN.
- 9 1/2" CW DN. TO RECESSED WATER SUPPLY BOX @ +12" AFF.
- 10 2" S W/ 2" P-TRAP & 1-1/2" V OFFSET BEL. FLR. 1/2" CW FOR FLOOR DRAIN.
- 11 1/2" CW BEL. FLR. FROM FLUSH VALVE TRAP PRIMER OVER TO FLOOR DRAIN.
- 12 3/4" CW & HW DN., 3" S DN. & 2" VR FOR MOP SINK.
- 13 3/4" HWR DN. TO IN-LINE CIRCULATING PUMP AT WATER HEATER.
- 14 ELECTRIC WATER HEATER ON FLOOR. SEE DETAIL 6/P800.
- 15 INDOOR UNIT MOUNTED ON WALL. SEE MECH DWGS. CONNECT CD HOSE TO PUMP OUTLET, RISE UP TO ABV. CLG. AND DROP DN. INTO TOP OF 3/4" GRAVITY CD LINE.
- 16 INDOOR UNIT ABV. CLG. SEE MECH DWGS. CONNECT 3/4" CD W/ TRAP PER DETAIL 5/P800.
- 17 3/4" CD DN. TO TAILPIECE OF LAVATORY. SEE DETAIL 10/P800.

KEY PLAN



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 OAKDALE, CA
 DRAWING TITLE
 BLDG A MEZZANINE AND ENLARGED PLUMBING PLANS

PROJECT NO.
 18-10850
 DRAWING
 P300

SD-P03

MECHANICAL SCHEDULES

UNIT HEATER SCHEDULE table with columns for Designation, UH-1A through UH-10A, and rows for Blower, Heating, Manufacturer, Model Number, Location, Oper. Wt., and Accessories.

UNIT HEATER SCHEDULE (CONTINUED) table with columns for Designation, UH-11A through UH-13A, and rows for Blower, Heating, Manufacturer, Model Number, Location, Oper. Wt., and Accessories.

GRILLE SCHEDULE table with columns for Mark, Duty, and Description, listing various grille types like Lay-in Supply, Lay-in Return, Surface Mount Supply, etc.

EXHAUST FAN SCHEDULE table with columns for Designation, EF-1A through EF-1D, and rows for CFM, Ext. SP, HP/BHP, Volts/Phase, RPM, Tip Speed, Drive, Mounting, Manufacturer, Type, Model Number, Control, Location, Oper. Wt., and Accessories.

SUPPLY FAN SCHEDULE table with columns for Designation, SF-1A, and rows for CFM, Ext. SP, HP/BHP, Volts/Phase, RPM, Tip Speed, Drive, Mounting, Manufacturer, Type, Model Number, Control, Location, Oper. Wt., and Accessories.

INDOOR UNIT SCHEDULE table with columns for Designation, IDU-1A through IDU-4A, and rows for Blower, Cooling, Heating, Filters, Manufacturer, Type, Model Number, Location, Oper. Wt., and Accessories.

OUTDOOR UNIT SCHEDULE table with columns for Designation, ODU-1A through ODU-4A, and rows for Nameplate Amps, Volts/Phase, MCA/MOCP, EER/SEER, Cooling Cap., Ambient Temp., Manufacturer, Type, Model Number, Location, Oper. Wt., and Accessories.

GENERAL NOTES

- 1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED... 2. THE ACTUAL LOCATION OF MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED... 3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS... 4. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS... 5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2019 CMC... 6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2019 CMC... 7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS... 8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH THE LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS... 9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS... 10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETURN, OSA AND EXHAUST) FOR SYSTEM BALANCING... 11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL... 12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE AHJ APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY AHJ.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY AHJ. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- MP [] MD [] PP [] E [] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP [X] MD [X] PP [] E [] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13.

MECHANICAL SHEET INDEX

Table with columns for Mark and Description, listing sheets M001 (Mechanical Schedules, Legends, and Notes - Bldg A-D), M210 (Auto Shop and Warehouse Mechanical Floor Plan), M240 (Pest Department Mechanical Floor Plan), and M800 (Mechanical Details - Bldg A-D).

LEGEND

Legend table with columns for Symbol, Item, and Abbr., listing various mechanical components like Above Ceiling, Above Finished Floor, Air Conditioning, Air Flow Station, Air Handler Unit, Analog Input, Analog Output, Arch, At, Backdraft Damper, Below Finish Ceiling, Below Floor, Below Grade, Blind Flange, British Thermal Unit, British Thermal Unit Per Hour, California Mechanical Code, California Plumbing Code, Ceiling, Center Line, Continuation, Cubic Feet of Air Per Minute, Current Sensor, Diameter, Differential Pressure Switch, Digital Input, Digital Output, Down, Drawing, Electrical, Elbow, Exhaust, Exhaust Air, Exhaust Fan, Existing, Feet, Floor, Flow Line, Flow Switch, Gauge, Gallon, Gallons Per Hour, Gallons Per Minute, Inside Diameter, Make-up Air Unit, Maximum, Minimum, New, Not in Contract, Not to Scale, Number, Outside Air, Outside Diameter, Pounds, Pounds Per Square Inch, Pounds Per Square Inch Absolute, Pounds Per Square Inch Gauge, Polyvinyl Chloride, Pressure Station, Return Air, Room, Supply Air, Specification, Square Feet, Stainless Steel, Temperature, Temperature Sensor, Through, Typical, Under Ground, Variable Air Volume Unit, With, Without, Boiler Blowdown, Boiler Feed, Chemical Feed, Compressed Air, Chilled Water Supply, Chilled Water Return, Condenser Water Supply, Condenser Water Return, Domestic Cold Water, Heating Hot Water Supply, Heating Hot Water Return, Refrigerant Discharge, Refrigerant Liquid, Refrigerant Suction, Soft Cold Water, Steam Supply.

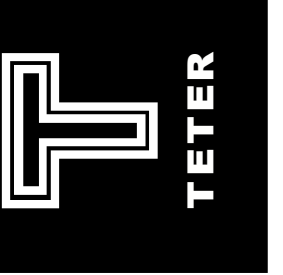
Legend table with columns for Symbol, Item, and Abbr., listing various mechanical components like Steam Condensate Return, Surface Blowdown, Drain, Piping Cap, Existing (Designated), Remove / Demo Existing (Designated), Direction of Flow, Supply Air, Return Air, Exhaust Air, Pipe/Duct Turn Down, Pipe/Duct Turn Up, Round Duct (Smaller than 100), Round Flexible Duct, Rectangular or Round Duct (100 and Larger), Existing Duct (Designated), Remove / Demo Existing Duct (Designated), Duct with Acoustic Lining, Supply Air Duct Drop, Supply Air Duct Rise, Return Air Duct Drop, Return Air Duct Rise, Exhaust Air Duct Drop, Exhaust Air Duct Rise, Outside Air Duct Drop, Outside Air Duct Rise, Turning Vanes, Extractor, CO2 Sensor, Duct Detector, Heat Detector, Smoke Detector, Motorized Damper, Fire Damper w/Motorized Reset and Access Door, Fire Damper with Access Panel or Security Bars, Fire Damper with Access Panel, Fire/Smoke Damper with Access Panel, Volume Control Damper with Locking Quadrant, Remote T'Stat with Sensor in Duct, Thermostat, Thermostat Label Example: Thermostat for AC-1 Mount at +48" AFF to Top of Box, Point of Connection to Existing, Bypass Timer, Thermometer, Pressure Gage, Security Bars, Pet's Plug, Balancing Cock, Ball Valve, Butterfly Valve, Check Valve, Concentric Reducer, Two-Way Control Valve, Flow Switch, Flexible Connection, Gate Valve, Globe Valve, Instrument Well, Plug Valve, Pressure Relief Valve, "Y" Type Strainer, Union, Keynote, Grille Tag, New Equipment Tag Example: Description EF, Mark Number 8, Detail Reference Example: Detail 2, Sheet M202, Section Reference Example: Section 3, Sheet M400.

Fig. 1.1.4 is provided for reference only. It does not constitute a contract. The user assumes all responsibility for the use of this information. This information is not to be used for any other project without the written authorization of the author.

Table with columns for Mark, Date, Description, and Review, showing a record for CD Phase Architectural Review on 02/15/22.



TETER, LLP
FRESNO HEADQUARTERS
VISUAL ENGINEERING WOODSTOCK TOWN SQUARE
ARCHITECTS ENGINEERS CONNECTED



OAKDALE IRRIGATION DISTRICT
PACKAGE 2 - METAL BUILDINGS
1110 KAUFMAN ROAD
OAKDALE, CA
DRAWING TITLE
MECHANICAL SCHEDULES, LEGENDS, AND NOTES - BLDG A-D

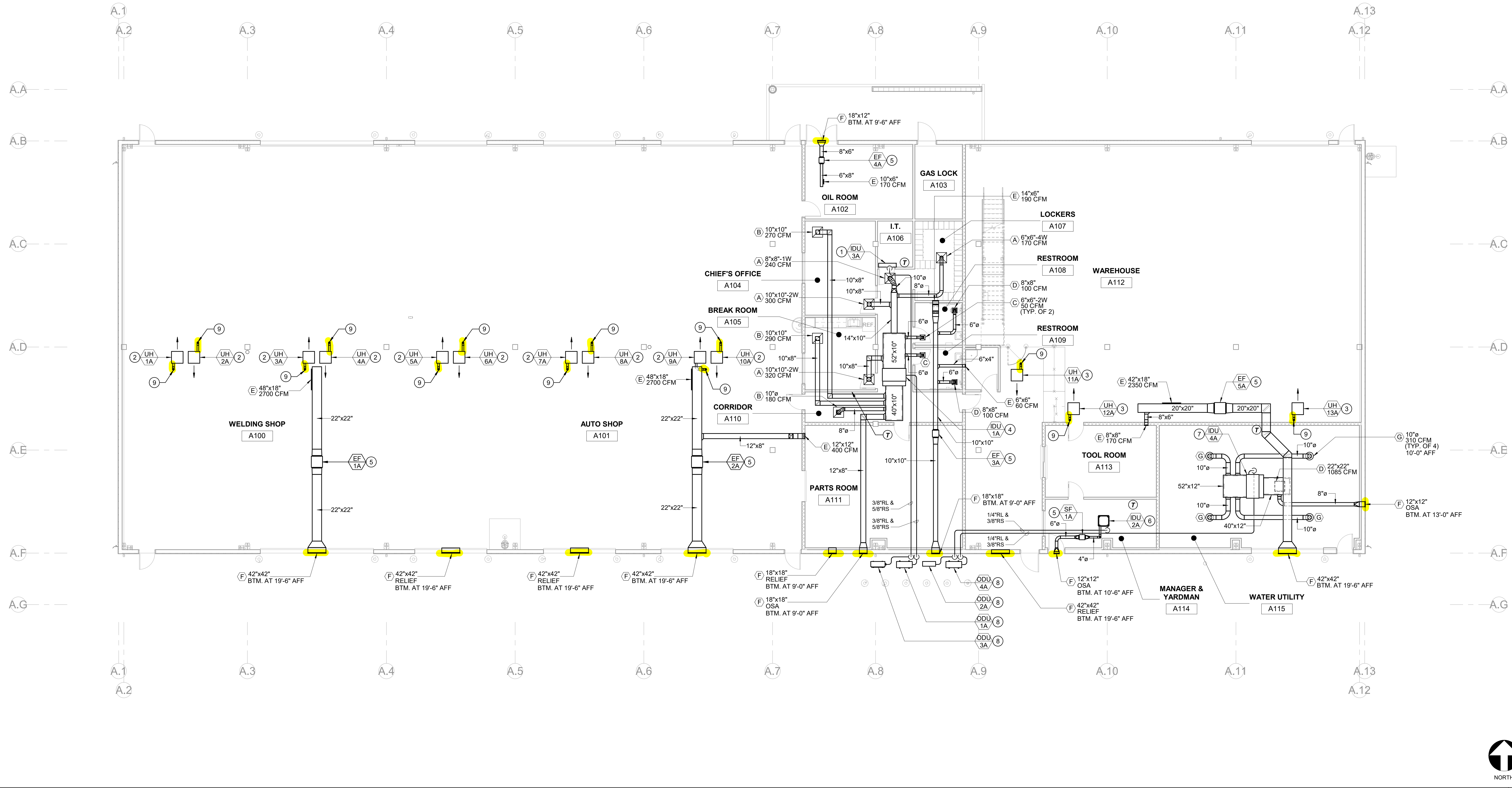
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18-10850

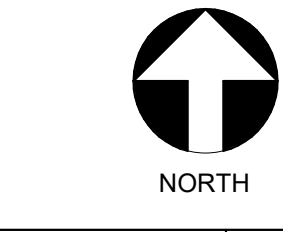
DRAWING

M001

SD-M01



AUTO SHOP AND WAREHOUSE MECHANICAL PLAN



1/8" = 1'-0" 1

KEYNOTES

- 1 WALL MOUNTED INDOOR FAN COIL. SEE 5&16/M800 FOR DETAIL.
- 2 UNIT HEATER MOUNTED AT +14'-0" AFF. SEE 1/M800 FOR DETAIL.
- 3 UNIT HEATER MOUNTED AT +12'-0" AFF. SEE 1/M800 FOR DETAIL.
- 4 DUCTED INDOOR FAN COIL SUSPENDED BELOW MEZZANINE DECK. SEE 3/M800 FOR DETAIL.
- 5 IN-LINE FAN. SEE 2/M800 FOR DETAIL.
- 6 CEILING CASSETTE INDOOR FAN COIL. SEE 4/M800 FOR DETAIL.
- 7 DUCTED INDOOR FAN COIL. SEE 3/M800 FOR DETAIL.
- 8 OUTDOOR CONDENSING UNIT ON HOUSEKEEPING PAD. SEE 9/M800 FOR DETAIL.
- 9 4"Ø FLUE UP THRU ROOF. SEE 10/M800 FOR DETAIL.

GENERAL NOTES

- 1. SEE DETAIL 6/M800 FOR TYPICAL CEILING GRILLE.
- 2. SEE DETAIL 8/M800 FOR TYPICAL DUCT SUPPORTS.
- 3. SEE DETAIL 12/M800 FOR TYPICAL PIPE SUPPORTS.
- 4. SEE DETAIL 7/M800 FOR TYPICAL DUCT BRANCH DETAILS.
- 5. THERMOSTATS MOUNTED AT +48" AFF TO TOP OF BOX. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. WHERE INTERNAL LINING IS SHOWN OR SPECIFIED, INCREASE FABRICATED DUCT DIMENSIONS TO ACCOMMODATE.

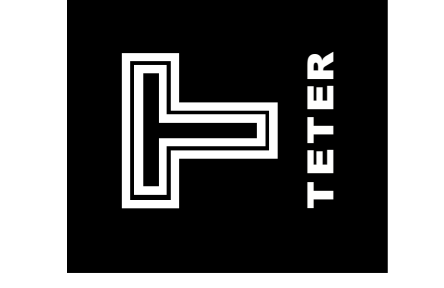
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MARK	DATE	DESCRIPTION
A	02/15/22	CD PHASE ARCHITECTURAL REVIEW

10850-M-01D_02/15/22 CD PHASE ARCHITECTURAL REVIEW



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 ARCHITECTS ENGINEERS CONNECTED
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 VISUAL | BAKERSFIELD | MODESTO | SAN LUIS OBISPO



OAKDALE IRRIGATION DISTRICT
 PACKAGE 2 - METAL BUILDINGS
 1110 KAUFMAN ROAD
 OAKDALE, CA
 DRAWING TITLE
 AUTO SHOP AND WAREHOUSE MECHANICAL FLOOR PLAN

PROJECT NO.
 18-10850
 DRAWING
 M210

SD-M02