

# VALLEY CENTRAL SCHOOL DISTRICT ADMINISTRATION BUILDING 2023 CAPITAL PROJECT - PHASE 1

ISSUED FOR BID: 10/18/24

CSARCH - ARCHITECTS  
BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS  
PASSERO ASSOCIATES - SITE/CIVIL AND STRUCTURAL ENGINEERS  
AECC ENVIRONMENTAL CONSULTING - HAZARDOUS MATERIALS DESIGNERS

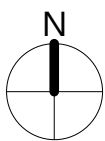
STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:  
2023 CAPITAL PROJECT - PHASE 1 44-13-01-06-1-005-006  
THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

CSArch PROJECT NO. 187-2302.01



VICINITY MAP

NTS



DRAWING LIST	
<b>GENERAL DRAWINGS</b>	
ADMIN G000	COVER & SHEET INDEX
ADMIN G001	SYMBOLS, ABBREVIATIONS, AND MISC.
<b>ARCHITECTURAL DRAWINGS</b>	
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<b>MECHANICAL GENERAL DRAWINGS</b>	
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<b>MECHANICAL DRAWINGS</b>	
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<b>ELECTRICAL GENERAL DRAWINGS</b>	
ADMIN E001	ELECTRICAL NOTES, LEGENDS, & SCHEDULES
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ADMIN E111	ELECTRICAL PLANS



EXPIRATION DATE: 02/28/2025

VOLUME 8 OF 8



ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
APP	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EFB	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDANT-TREATED MATERIAL
FTG	FOOTING
G	GROUND
GA	GAUGE
GALL	GALLON(S)
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GNB	GYP SUM WALL BOARD
GNBS	GYP SUM WALL BOARD SOFFIT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MD	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NG	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPT	OPTIONAL
OVR	OVERALL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYNO	PLYWOOD
PNL	PANEL
PNT	PAINT
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PREPARATORY
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION GLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMFD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WPT	WOOD PRESERVED-TREATED MATERIAL
WGT	WEIGHT
YD	YARD

ARCHITECTURAL LEGEND

MATERIAL INDICATIONS

	EARTH
	GRANULAR FILL
	BRICK
	CONCRETE MASONRY UNIT
	CONCRETE
	GROUT
	ROUGH WOOD BLOCKING
	SHIM
	FINISH WOOD
	PLYWOOD
	SHEATHING
	RIGID INSULATION
	BATT INSULATION
	SPRAY FOAM INSULATION
	EPS INSULATION
	STEEL

DIMENSIONING CONVENTIONS

	FACE OF STUD OR CMU
	COLUMN CENTER LINE

SYMBOLS

	ROOM NAME
	ROOM NUMBER
	AREA OF ROOM
	DOOR NUMBER, REFER TO A100 DRAWINGS
	WINDOW TAG, REFER TO A100 DRAWINGS
	BORROWED LIGHT NUMBER, REFER TO A100 DRAWINGS
	STOREFRONT / CURTAIN WALL NUMBER, REFER TO A100 DRAWINGS
	COLUMN GRID DESIGNATION
	PARTITION TAG, REFER TO A100 DRAWINGS
	ADDITIONAL NOTES FOR PARTITION
	REVISION NUMBER
	KEY NOTE, NEW WORK
	KEY NOTE, DEMOLITION WORK
	ELEVATION TAG
	HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
	ROOM NAME
	INTERIOR FINISH TAG, REFER TO A100 DRAWINGS
	WALL FINISH
	BASE FINISH
	FLOOR FINISH

DETAIL INDICATOR LEGEND

SECTION INDICATOR

	SECTION NUMBER
	DRAWING SHEET NUMBER
	SECTION IS DRAWN ON
	DIRECTION OF VIEW

DETAIL INDICATOR (SECTION)

	SECTION NUMBER
	DRAWING SHEET NUMBER
	SECTION IS DRAWN ON
	DIRECTION OF VIEW

ENLARGED DETAIL INDICATOR

	DETAIL NUMBER
	DRAWING AREA REQUIRING DETAIL
	DETAIL IS DRAWN ON

DETAIL TITLE

	DETAIL TYPE / NAME
	DETAIL NUMBER
	DRAWING SHEET NUMBER
	SCALE

EXTERIOR ELEVATION INDICATOR

	ELEVATION NUMBER
	DIRECTION OF VIEW
	DRAWING SHEET NUMBER
	DETAIL IS DRAWN ON

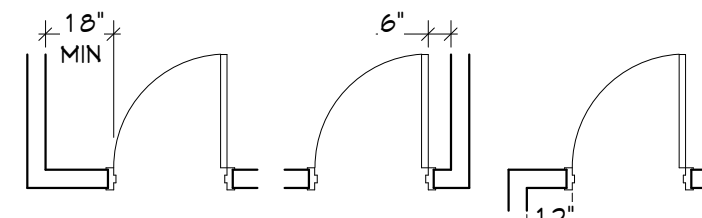
INTERIOR ELEVATION INDICATOR

	ELEVATION NUMBER
	BLANK ARROW INDICATES ELEVATIONS NOT DETAILED
	DRAWING SHEET NUMBER
	DETAIL IS DRAWN ON
	DIRECTION OF VIEWS

PLAN GRAPHICS LEGEND

	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	NEW CONCRETE MASONRY WALL
	NEW METAL STUD WALL
	NEW BRICK VENEER
	EXISTING DOOR TO REMAIN
	EXISTING DOOR TO BE REMOVED
	NEW DOOR

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW UNO. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



GENERAL NOTES

- DIMENSIONS ARE GIVEN THUS (UNLESS NOTED OTHERWISE)
  - A. TO FACE OF MASONRY WALL
  - B. TO FACE OF METAL STUD
  - C. TO COLUMN CENTERLINES
  - D. TO FINISH FACE OF SOFFIT OR CEILING
  - E. FACE OF EXISTING CONSTRUCTION
- DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK.
- WALLS ON COLUMN LINES ARE CENTERED, UNO.
- ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
- LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
- ALL ELEVATIONS (X'-X") ARE REFERENCE FROM FIRST FLOOR ELEVATION.
- ALL WOOD BLOCKING WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED.
- ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND /OR FIRE STOPPED, COORDINATE WITH H DPGSS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
- FOR INTERIOR PARTITION TYPES, REFER TO DRAWING A101.
- FOR DOOR SCHEDULE, REFER TO DRAWING A101.
- FOR FINISH SCHEDULE, REFER TO DRAWING AF101.
- ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
- PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
- FOR ALL MATERIAL TESTING, REFER TO SPECIFICATION DIVISION 000220.
- ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE.

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Checked By:	CSA
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Sheet Title

SYMBOLS,  
ABBREVIATIONS,  
AND MISC

Sheet No.

ADMIN  
G001

CONSTRUCTION DOCUMENTS

Consultant

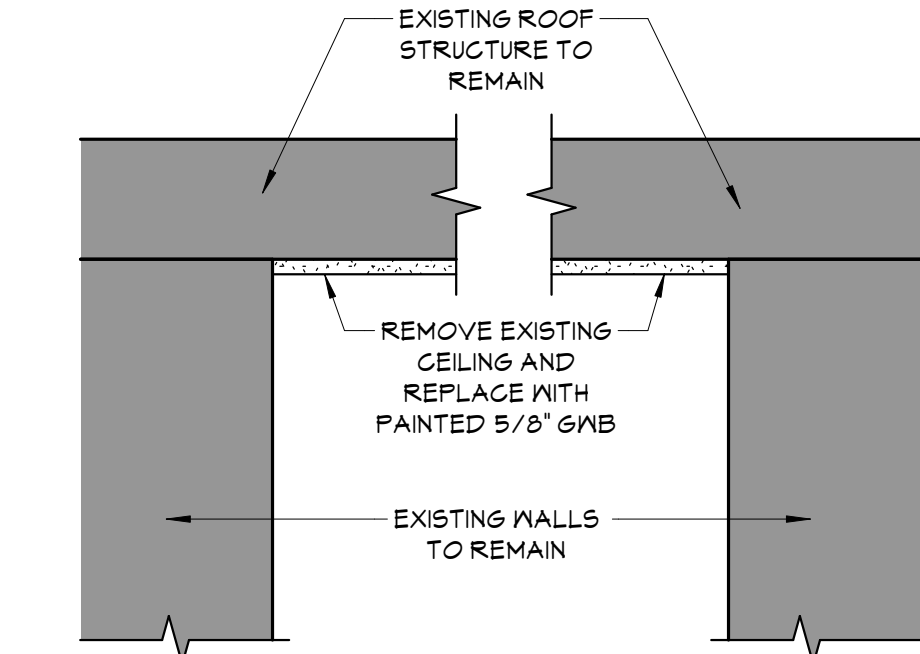
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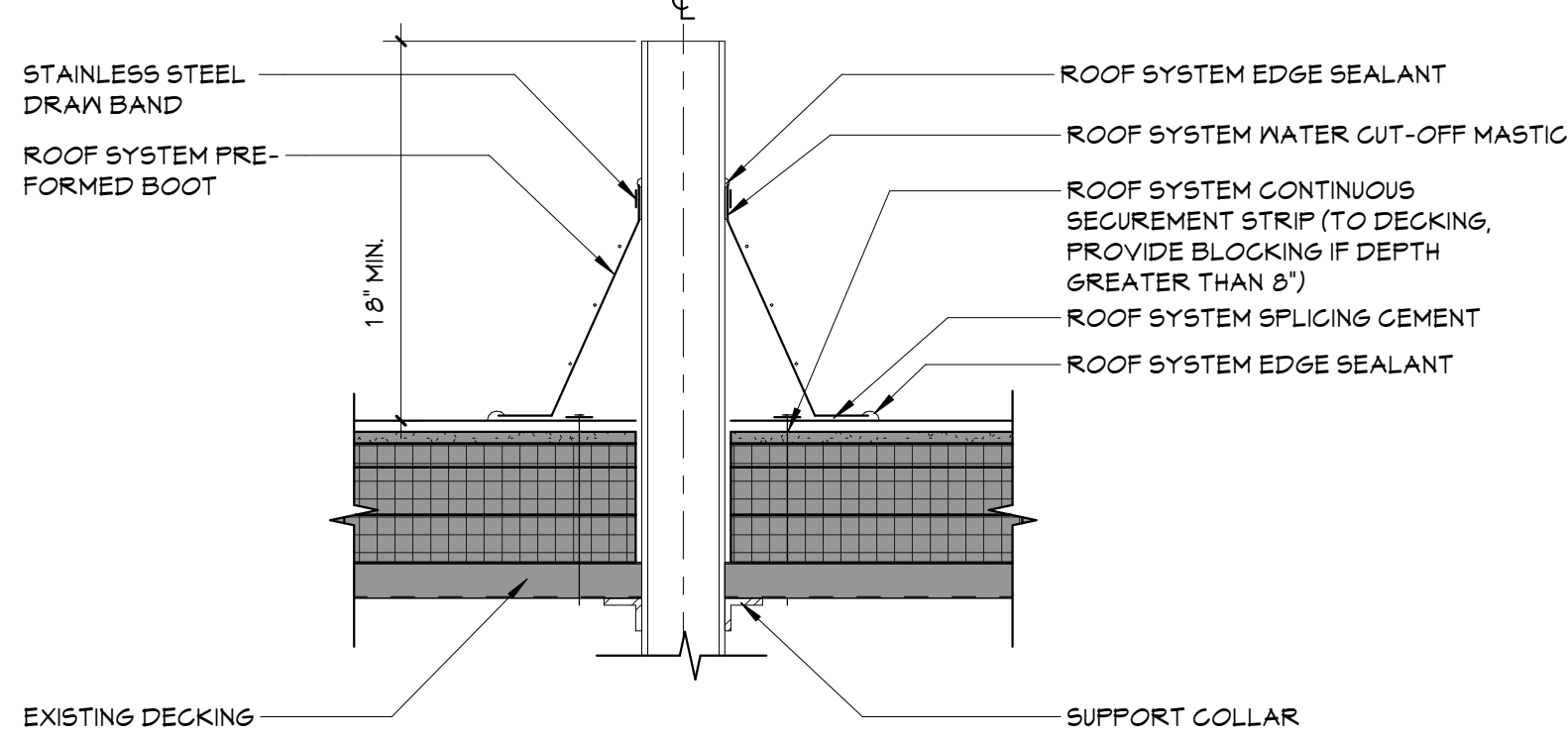
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GENERAL DESIGN LOAD REQUIREMENTS			
LOADING TYPE	BUILDING CODE SECTION	OCCUPANCY/USE/LOCATION	REQUIRED
MINIMUM UNIFORM DISTRIBUTED LIVE LOADS	2020 BUILDING CODE OF NEW YORK STATE TABLE 1607.1	SCHOOLS - CLASSROOMS	40 PSI
		SCHOOLS - FIRST FLOOR CORRIDORS	100 PSI
		SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	80 PSI
		OFFICE BUILDINGS - OFFICES	50 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
		ORANGE COUNTY MONTGOMERY, NY	40 PSI
FLAT ROOF SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	28 PSI
DESIGN WIND SPEEDS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1609.3	RISK CATEGORY III MONTGOMERY, NY	130 VMFH



3  
A101  
1 1/2" = 1'-0"

GWB CEILING DETAIL



2  
A101  
1 1/2" = 1'-0"

VENT PIPE DETAIL



1  
A101  
1/4" = 1'-0"

FIRST FLOOR OVERALL PLAN

GENERAL NOTES	
1.	REFER TO SHEET 6001 FOR ADDITIONAL GENERAL NOTES.
2.	REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3.	REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4.	REFER TO SHEET A101 FOR PARTITION TYPES AND ADDITIONAL NOTES.
GENERAL NOTES	
1.	COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2.	PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3.	SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER UNO.
4.	ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5.	REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6.	PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7.	DRILL CORNERS OF ALL NEW SANGUIT OPENING PRIOR TO SANGUITTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
DEMOLITION KEYNOTES	
#	Description
C 14	REMOVE EXISTING GNB/PLASTER CEILING SYSTEM IN ENTIRETY. COORDINATE REMOVALS AND RELOCATIONS OF DEVICES AND EQUIPMENT WITH ELECTRICAL AND MECHANICAL DRAWINGS.
D 4	REMOVE CHAIN LINK FABRIC FROM FENCE GATE IN ITS ENTIRETY.
G 6	REMOVE CHAIN LINK FABRIC FROM EXISTING FENCING POSTS IN ITS ENTIRETY.
NEW WORK KEYNOTES	
#	Description
C 16	PROVIDE PAINTED GYPSUM BOARD CEILING WHERE PREVIOUSLY REMOVED.
D 7	PROVIDE NEW CHAIN LINK FABRIC AT GATE AND FENCING POSTS.
G 1	PROVIDE NEW CHAIN LINK FABRIC TO ENCASE NEW MEP EQUIPMENT AREA.
R 13	VENT PIPE PROVIDE PIPE BOOT AND ROOF FLASHING. REFER TO DETAILS.

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Sheet Title

OVERALL  
FLOOR PLAN

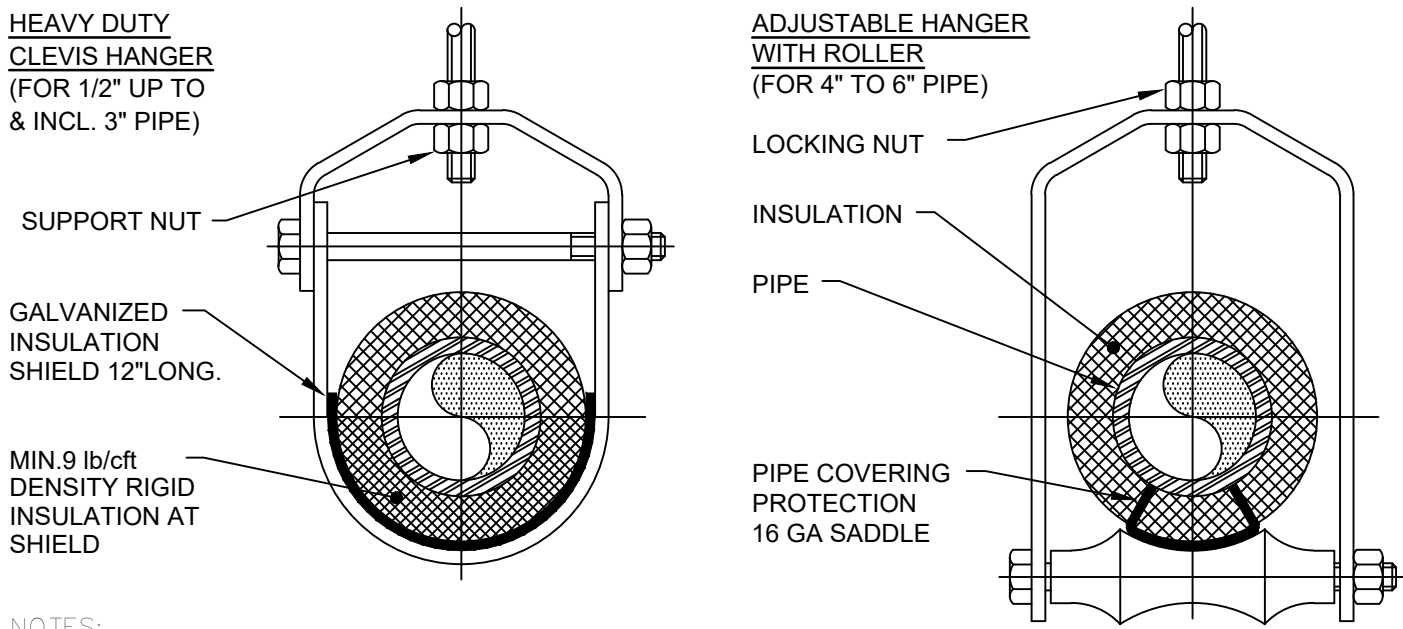
Sheet No.

ADMIN  
A101

CONSTRUCTION DOCUMENTS

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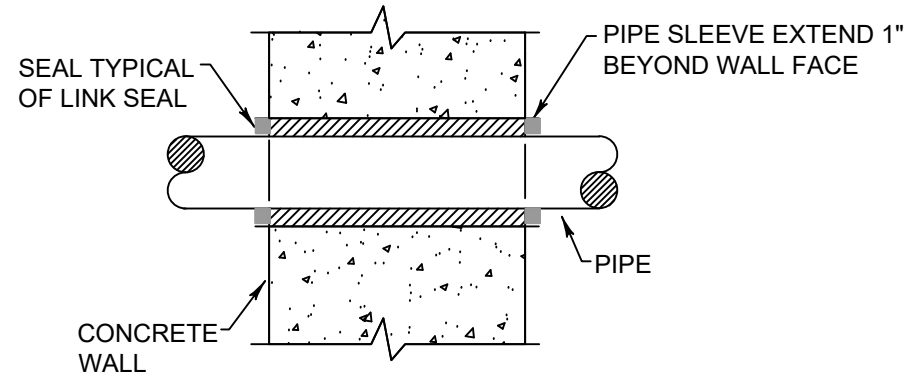
NOTES:

1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

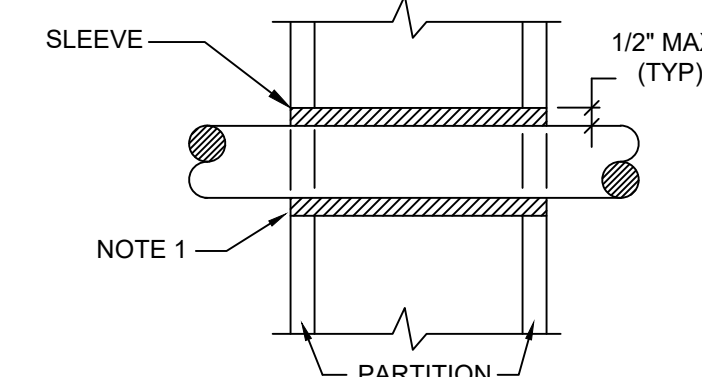
Pipe Hanger Support

N.T.S.



Exterior Wall Pipe Penetrations

N.T.S.

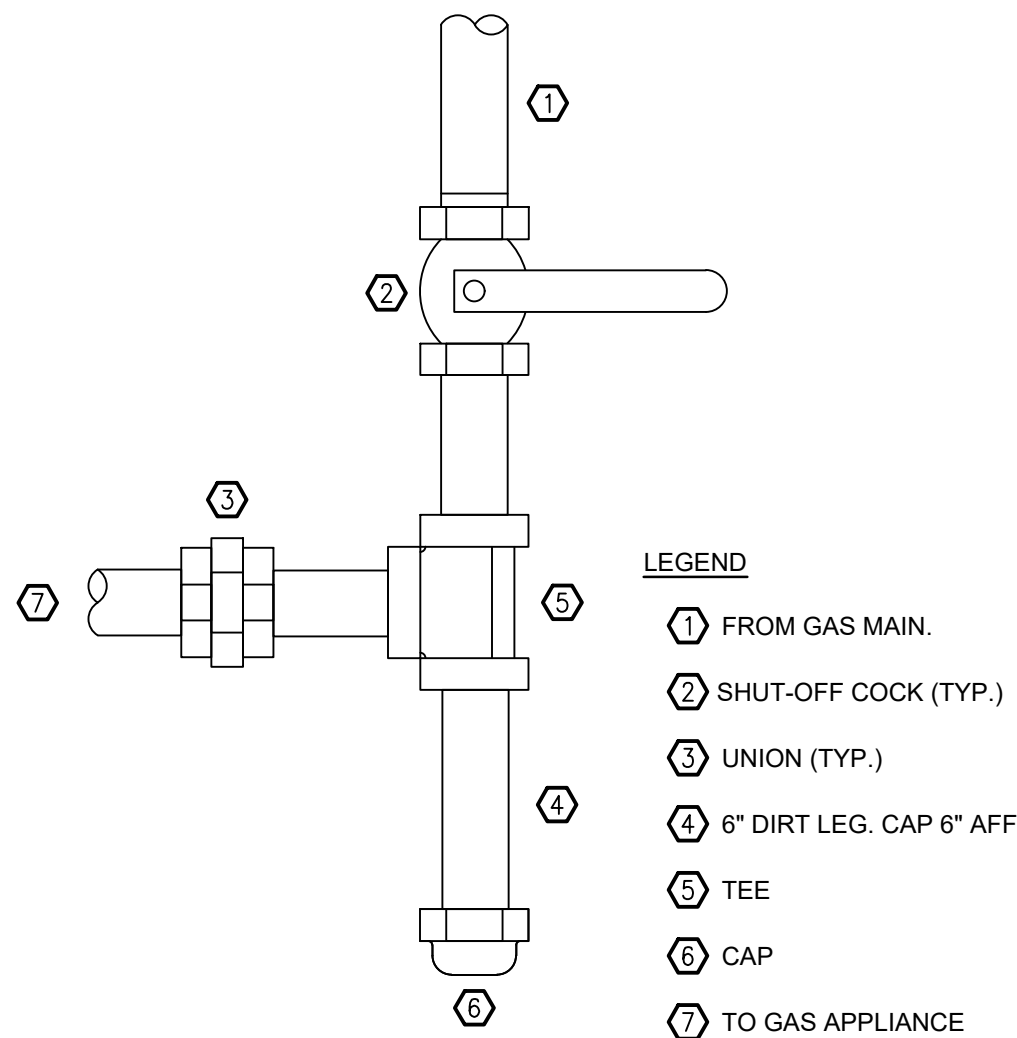


NOTES:

1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

Pipe Penetrations Detail

N.T.S.



Gas Piping Appliance Connection Detail

N.T.S.

Plumbing Legend:

---	DOMESTIC COLD WATER SUPPLY
---	110 °F DOMESTIC HOT WATER SUPPLY
---	140 °F DOMESTIC HOT WATER SUPPLY
---	HOT WATER RETURN
---	SANITARY SEWER, ABOVE GRADE
---	SANITARY SEWER, BELOW GRADE
---	GREASE WASTE, BELOW GRADE
---	PLUMBING VENT
---	STORM WATER, ABOVE GRADE
---	STORM WATER, BELOW GRADE
---	NATURAL GAS PIPING
---	DIRECTION OF PIPE SLOPE (DOWN)
---	CONCENTRIC REDUCER OR INCREASER
---	ECCENTRIC REDUCER
---	TOP CONNECTION, 45° OR 90°
---	BOTTOM CONNECTION, 45° OR 90°
---	SIDE CONNECTION
---	CAPPED OUTLET
---	RISE OR DROP IN PIPE
---	UNION
---	PIPE UP
---	PIPE DOWN
---	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
---	STRAINER
---	HOSE BIB
---	SOLENOID VALVE
---	GATE VALVE
---	GLOBE VALVE
---	CHECK VALVE
---	BUTTERFLY VALVE
---	FULL PORT BALL VALVE
---	PRESSURE GAUGE
---	PRESSURE REDUCING VALVE (PRV)
---	DRAIN VALVE
---	FLEXIBLE PIPING CONNECTION
C.O.	CLEANOUT
W.C.O.	WALL CLEANOUT
F.C.O.	FLOOR CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
D.C.O.T.G.	DOUBLE CLEANOUT TO GRADE
P-X	PLUMBING FIXTURE MARK

Plumbing Notes:

1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
4. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
5. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
6. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 PLUMBING CODE OF NEW YORK STATE, 2020 FUEL GAS CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
7. WHERE THE PROJECT INVOLVES A GAS SERVICE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK INVOLVING THE GAS UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
8. ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
9. ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
10. ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.
11. SLOPE SANITARY DRAINAGE PIPING 2" DIAMETER AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING OVER 2" DIAMETER NOT LESS THAN 1/8" PER FOOT.
12. INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.
13. PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.
14. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- 14.1. WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.
- 14.2. DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.
15. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
16. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
17. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM.
18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
19. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
20. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

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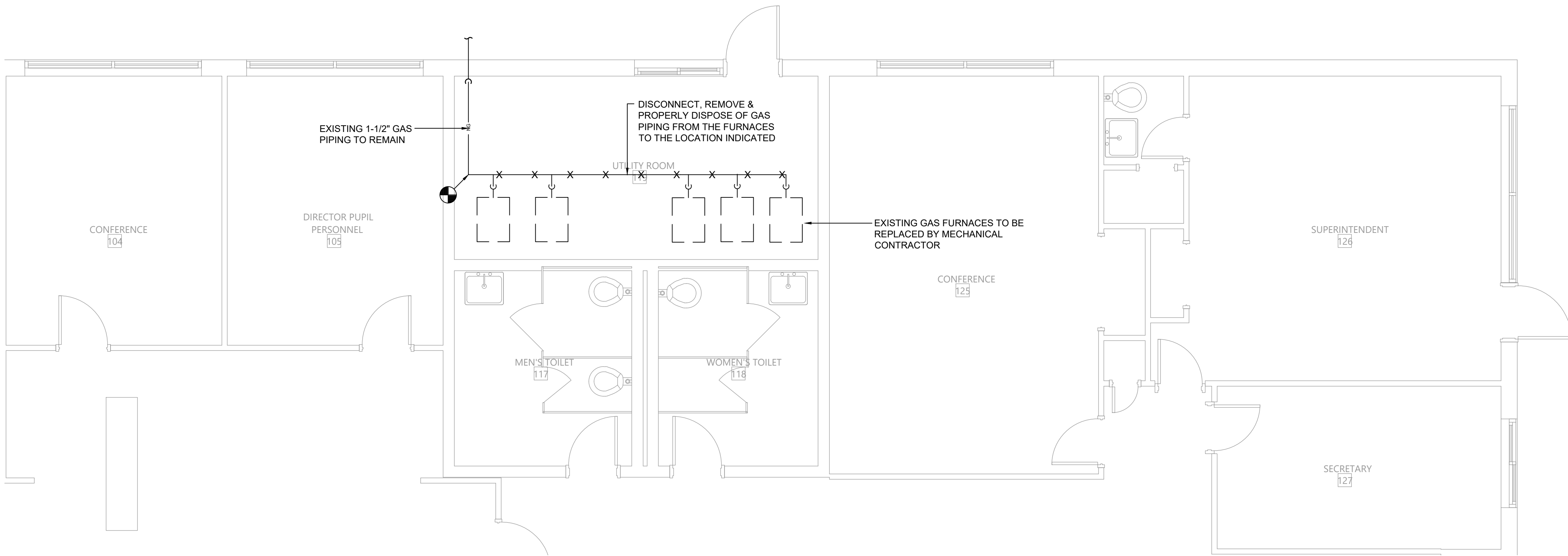
PLUMBING  
NOTES, LEGEND  
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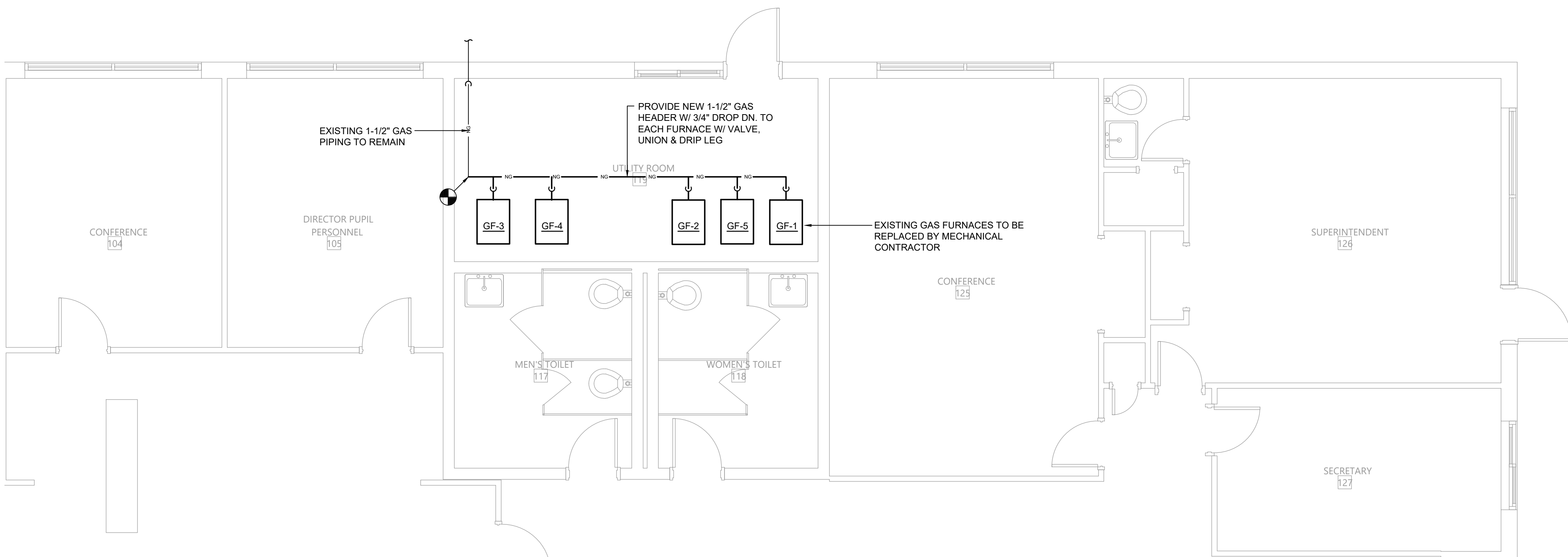
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CONSTRUCTION DOCUMENTS

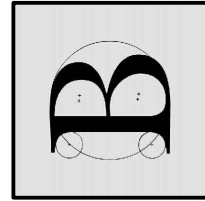




1 Plumbing Demolition Plan  
Scale: 1/4" = 1'-0"



2 Plumbing Plan  
Scale: 1/4" = 1'-0"



BLAKE ENGINEERING PLLC  
100 W. 10TH STREET, SUITE 200  
HARTFORD, CT 06102

VALLEY CENTRAL SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
2023 CAPITAL PROJECTS - PHASE 1

Project Title



#	DATE	DESCRIPTION

Drawn By: BIK  
Checked By: BIK  
Proj. #: 44-13-01-06-005-006  
CSArch Proj. #: 187-2302.01  
Issued for Bid: 10/18/24

Sheet Title

PLUMBING  
PLANS


Sheet No.

ADMIN  
P111

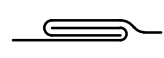
CONSTRUCTION DOCUMENTS




THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK						
* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.						
GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	ALUMINUM DUCTS B & S GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION	REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)
12" OR LESS	26	24(0.020")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
13" THRU 18"	24	22(0.025")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
19" THRU 30"	24	22(0.025")	PITTSBURGH OR ACME LOCK	HEMMED "S" SLIP OR BAR SLIP OR DRIVE SLIP OR 1" POCKET LOCK	HEMMED "S" SLIP OR BAR SLIP OR 1" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
31" THRU 42"	22	20(0.032")	PITTSBURGH OR ACME LOCK	DRIVE SLIP 18" OR LESS BAR SLIP OR REINFORCED BAR SLIP OR 1 1/2" POCKET LOCK	BAR SLIP OR REINFORCED BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
43" THRU 54"	22	20(0.032")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
55" THRU 60"	20	18(0.040")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
61" THRU 84"	20	18(0.040")	PITTSBURGH LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCE ALL SIDES OVER 60" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 4'-0" CENTERS.
85" THRU 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 84" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. SIDES 61" THRU 84" REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 4'-0" CENTERS.
OVER 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	2" COMPANION ANGLE, OR 2"x2"x1/4" ANGLE SLIP, OR 2"x2"x1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	2" COMPANION ANGLE, OR 2"x2"x1/4" ANGLE SLIP, OR 2"x2"x1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 96" WITH 2"x2"x1/4" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"x1 1/2"x1/8" ANGLES IF JOINTS ARE 6'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.




PITTSBURGH LOCK



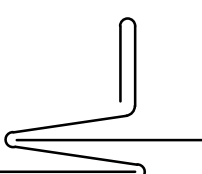
ACME LOCK




DRIVE SLIP




POCKET LOCK



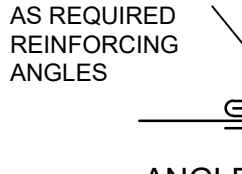
BAR SLIP




HEMMED "S" SLIP



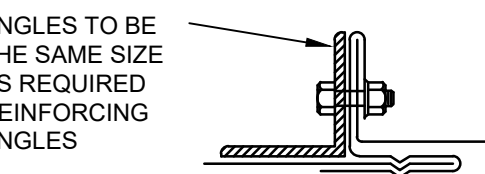
REINFORCED BAR SLIP



ANGLE SLIP

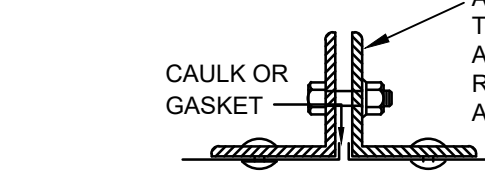


ALTERNATE BAR SLIP



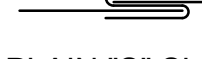
ANGLES TO BE THE SAME SIZE AS REQUIRED REINFORCING ANGLES

ANGLE REINFORCED POCKET LOCK




CAULK OR GASKET

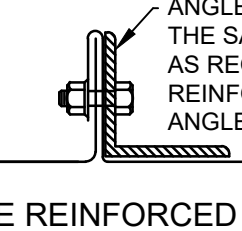
COMPANION ANGLES



PLAIN "S" SLIP

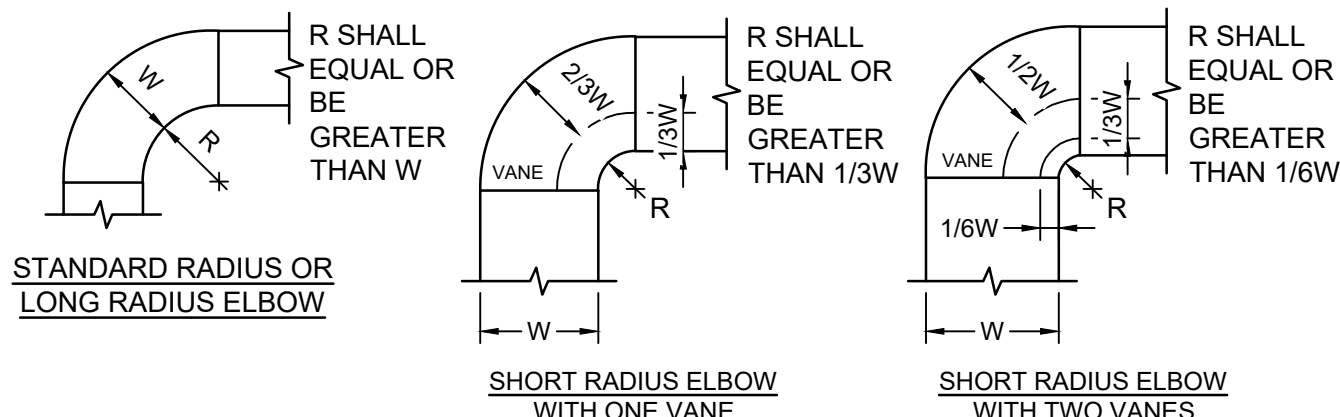


STANDING SEAM

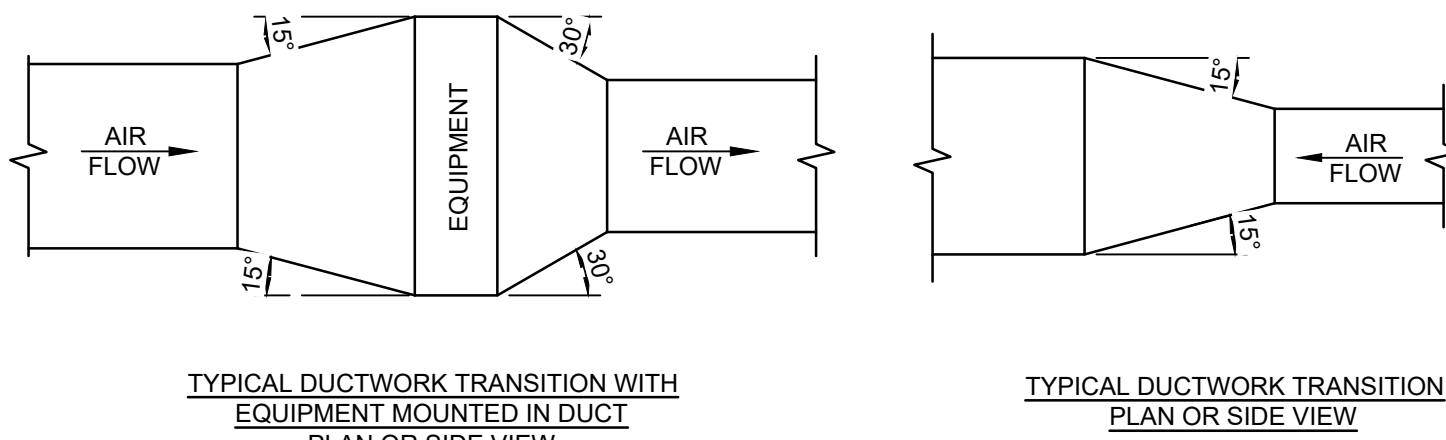


ANGLES TO BE THE SAME SIZE AS REQUIRED REINFORCING ANGLES

ANGLE REINFORCED STANDING SEAM

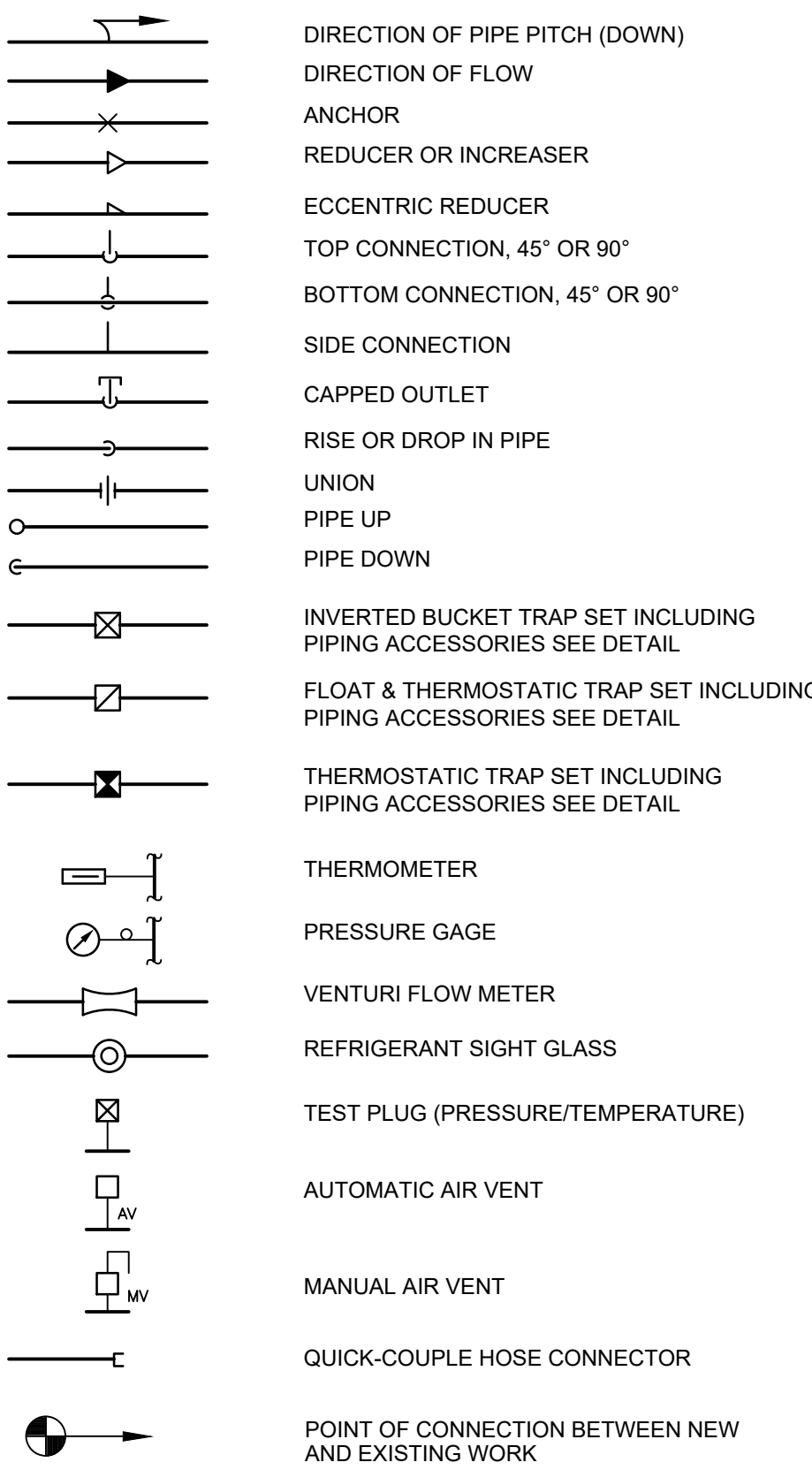


1 Ductwork Radius Elbow Detail  
N.T.S.

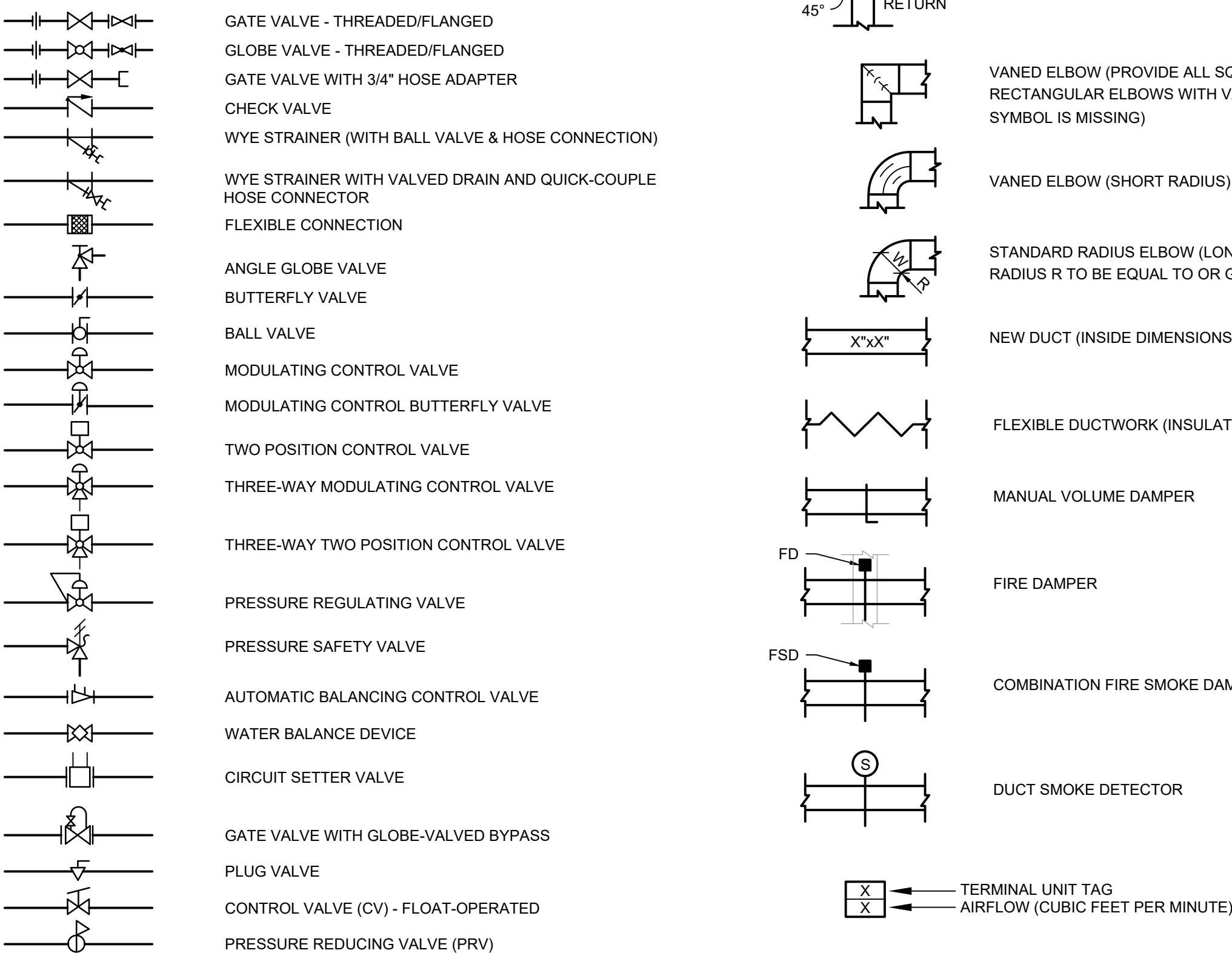


2 Ductwork Transition Detail  
N.T.S.

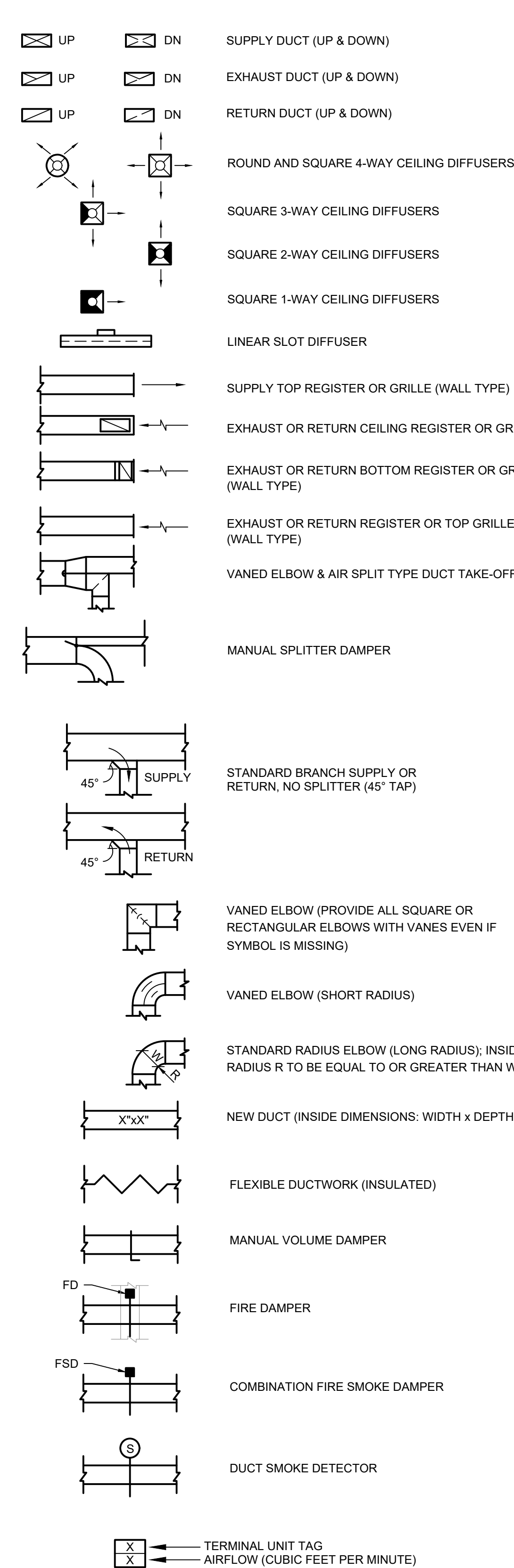
### General Symbols:



### Valve Symbols:



### Mechanical Legend :

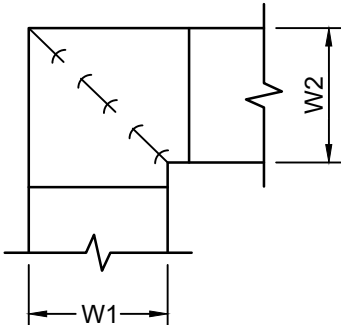


### Mechanical Notes:

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED THROUGH MANUAL AIR VENTS.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.
- INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED) WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.
- FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA. DOUBLE PANEL INSULATED TYPE.
- INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
- ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT BLACK.
- INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

### Mechanical Equipment:

- ① THERMOSTAT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR; MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS



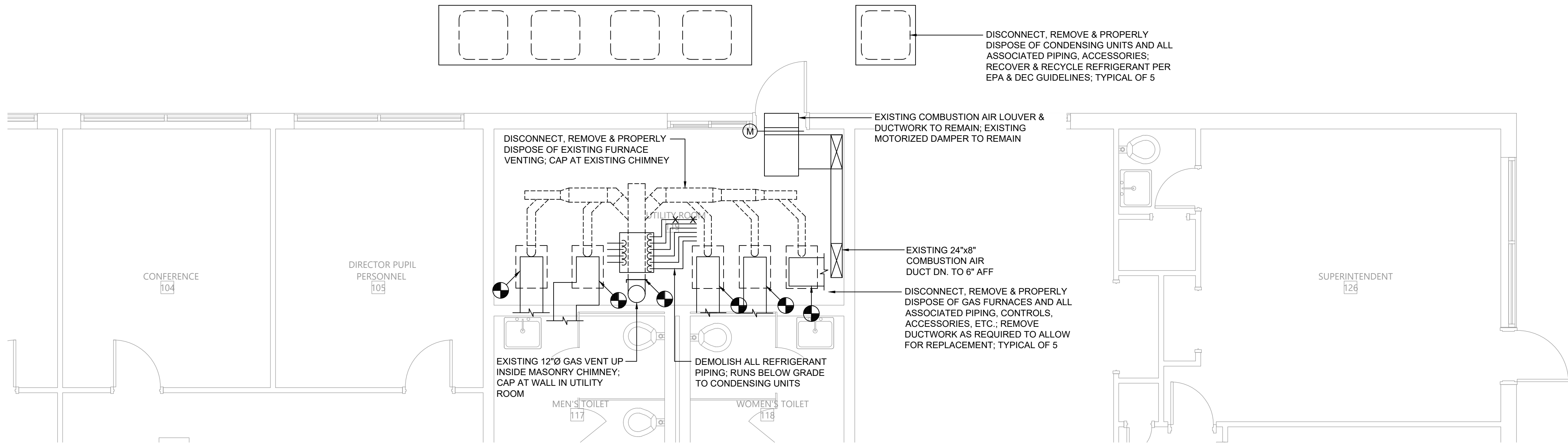
3 Ductwork Squared Elbow Detail  
N.T.S.

- NOTE:
- ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
  - WHEN W1 IS NOT EQUAL TO W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
  - ALL SINGLE VANES SHALL HAVE A 2" RADIUS. 1-1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
  - WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

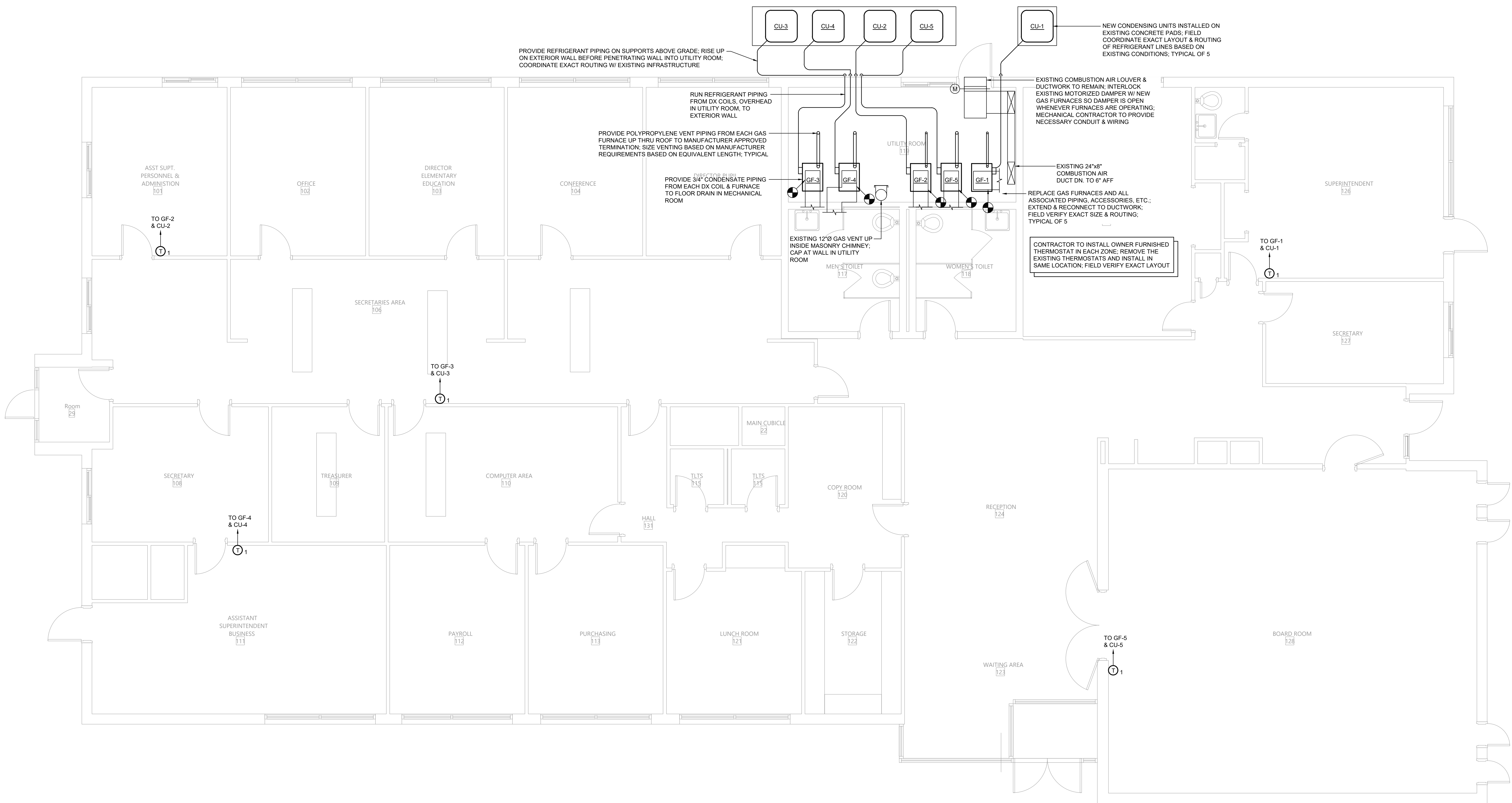
AIR-COOLED CONDENSING UNIT SCHEDULE																			
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNIT SERVED	COMPRESSOR TYPE	NOMINAL CAPACITY (MBH)	REFRIGERANT	OUTDOOR AIR TEMP. (°F)	MINIMUM SEER	MINIMUM EER	ELECTRICAL DATA							WEIGHT (LB)		NOTES
										COMP. RLA	LRA	FAN FLA	VOLT.	PHASE	Hz.	MCA	MOCP		
CU-1	TRANE	4TTR5030N1	GF-1	SCROLL	27.6	R-410A	95	15.00	12.00	12.8	67.8	0.64	208	1	60	17	25	184	INSTALL PER MANUFACTURER'S REQUIREMENTS; PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION
CU-2	TRANE	4TTR5036N1	GF-2	SCROLL	36	R-410A	95	16.00	12.00	13.6	79.0	0.77	208	1	60	18	30	212	INSTALL PER MANUFACTURER'S REQUIREMENTS; PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION
CU-3	TRANE	4TTR5042N1	GF-3	SCROLL	40	R-410A	95	15.20	12.00	16.7	109.0	0.64	208	1	60	21	35	252	INSTALL PER MANUFACTURER'S REQUIREMENTS; PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION
CU-4	TRANE	4TTR6048N1	GF-4	SCROLL	48	R-410A	95	16.00	12.00	50.4	122.1	2.80	208	1	60	28	45	259	INSTALL PER MANUFACTURER'S REQUIREMENTS; PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION
CU-5	TRANE	4TTR6048N1	GF-5	SCROLL	47.5	R-410A	95	16.00	12.00	50.4	122.1	2.80	208	1	60	28	45	259	INSTALL PER MANUFACTURER'S REQUIREMENTS; PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION

GAS FURNACE SCHEDULE																											
EQUIPMENT TAG	MANUFACTURER (EXISTING)	MODEL	AREA OF BUILDING SERVED	TOTAL SUPPLY AIRFLOW (CFM)	EXTERNAL STATIC PRESS. (IN. W.C.)	COOLING CAPACITY						HEATING CAPACITY						BLOWER FAN MOTOR HP	ELECTRICAL DATA					TOTAL WEIGHT (LB)	NOTES		
						DX COIL MANUFACTURER	DX COIL MODEL	MIN. TOTAL CAPACITY (MBH)	MIN. SENS. CAPACITY (MBH)	MINIMUM SEER	MINIMUM EER	E.A.T.		PAIRED OUTDOOR UNIT	GAS INPUT HIGH/LOW (MBH)	OUTPUT HIGH/LOW (MBH)	E.A.T. Db (°F)		L.A.T. Db (°F)	AFUE (%)	UNIT POWER CONNECTION						
												Db (°F)	Wb (°F)								VOLT.	PHASE	Hz.			MCA	MOCP
GF-1	TRANE	S9V2B080D4PSC	SUPERINT.	780	0.50	TRANE	4TXCB003DS3	26.12	20.79	15.00	12.00	75.0	62.0	CU-1	80.0/52.0	77.7/50.4	62.5	117.8	96	1	120	1	60	10.8	15	127	PROVIDE NEW THERMOSTAT & CONTROL WIRING AS REQUIRED; VERIFY EXACT LOCATION IN FIELD
GF-2	TRANE	S9V2C080U5PSC	REAR OFFICES	1030	0.50	TRANE	4TXCC009DS3	34.3	27.9	16.00	12.00	75.0	62.0	CU-2	80.0/52.0	77.7/50.4	62.5	117.8	96	1	120	1	60	13.9	15	139	PROVIDE NEW THERMOSTAT & CONTROL WIRING AS REQUIRED; VERIFY EXACT LOCATION IN FIELD
GF-3	TRANE	S9V2C100D4VSB	CENTER CORE	1055	0.50	TRANE	4PXCDD42BS3	38.5	31.4	15.20	12.00	75.0	62.0	CU-3	100.0/65.0	95.8/64.0	62.5	117.8	97	1	120	1	60	10.8	15	144	PROVIDE NEW THERMOSTAT & CONTROL WIRING AS REQUIRED; VERIFY EXACT LOCATION IN FIELD
GF-4	TRANE	S9V2D120U5VSB	FRONT OFFICES	1425	0.50	TRANE	4PXCDDU60BS3	45.8	38.7	16.00	12.00	75.0	62.0	CU-4	120.0/78.0	113.1/76.7	62.5	117.8	97	1	120	1	60	13.9	15	156	PROVIDE NEW THERMOSTAT & CONTROL WIRING AS REQUIRED; VERIFY EXACT LOCATION IN FIELD
GF-5	TRANE	S9V2C100D5PSC	BOARD ROOM	1600	0.50	TRANE	4PXCDD60BS3	45.3	37.8	16.00	12.00	75.0	62.0	CU-5	100.0/65.0	97.0/63.1	62.5	117.8	96	1	120	1	60	13.9	15	145	PROVIDE NEW THERMOSTAT & CONTROL WIRING AS REQUIRED; VERIFY EXACT LOCATION IN FIELD





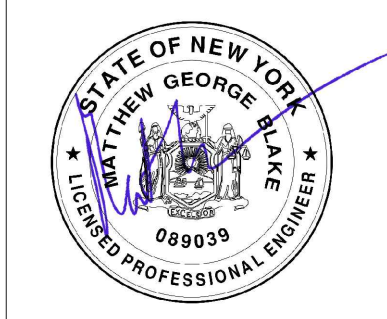
1 Mechanical Demolition Plan  
Scale: 1/4" = 1'-0"



2 Mechanical Plan  
Scale: 1/4" = 1'-0"

VALLEY CENTRAL SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
2023 CAPITAL PROJECTS - PHASE 1

Project Title



#	DATE	DESCRIPTION

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CSArch Proj. #: 187-2302.01  
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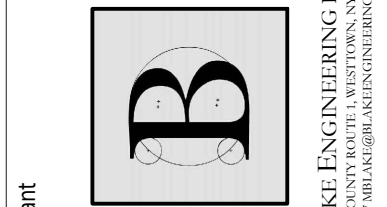
MECHANICAL  
PLANS

Sheet No.

ADMIN  
M111

CONSTRUCTION DOCUMENTS

Consultant




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845-561-3179 www.csarchpc.com

CSARCH



LIGHTING FIXTURE SCHEDULE										
TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
-		HE WILLIAMS LED EMERGENCY LIGHT EMERLED-WHT-SDT-D	LED	120	2	1.0	2.0	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP

120/208V 3Ø 4W+G				BUS RATING: -A						MLO	
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPCY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPCY	CONDUCTORS	CONNECTED LOAD	
SPACE	-		1	-	-	-	2		-	SPACE	
SPACE	-		3	-	-	-	4		-	SPACE	
SPACE	-		5	-	-	-	6		-	SPACE	
SPACE	-		7	-	-	-	8		-	SPACE	
SPACE	-		9	-	-	-	10	20	EXISTING	EXISTING LOAD	
EXIT LIGHTS	EXISTING	20	11	-	-	-	12	20	EXISTING	LIGHTING ROOM 118	
LIGHTING ROOM 125	EXISTING	20	13	-	-	-	14	20	EXISTING	LIGHTING ROOM 128	
LIGHTING ROOM 129	EXISTING	20	15	-	-	-	16	20	EXISTING	LIGHTING ROOM 108	
LIGHTING ROOM 106	EXISTING	20	17	-	-	-	18	20	EXISTING	LIGHTING ROOM 104	
LIGHTING ROOM 102	EXISTING	20	19	-	-	-	20	20	EXISTING	RECP. TELEPHONE	
RECPT.	EXISTING	20	21	-	-	-	22	20	EXISTING	LIGHTING ROOM 105	
LIGHTING ROOM 103	EXISTING	20	23	-	-	-	24	20	EXISTING	LIGHTING ROOM 103	
LIGHTING ROOM 101	EXISTING	20	25	-	-	-	26	20	EXISTING	LIGHTING ROOM 127	
LIGHTING ROOM 125	EXISTING	20	27	-	-	-	28	20	EXISTING	LIGHTING ROOM 125	
EXISTING LOAD	EXISTING	20	29	-	-	-	30	20	EXISTING	FIRE ALARM PANEL	
EXISTING LOAD (X)	EXISTING	20	31	-	-	-	32	20	EXISTING	WATER COOLER	
EXISTING LOAD	EXISTING	20	33	-	-	-	34	20	EXISTING	EXHAUST FANS	
A/C RECP. SUPT OFFICE	EXISTING	20	35	-	-	-	36	20	EXISTING	SITE LIGHTING	
PANEL C	EXISTING	200	37	-	-	-	38				
			39	-	-	-	40	200	EXISTING	PANEL B	
			41	-	-	-	42				
GENERAL ELECTRIC NHB PANEL				-	-	-	- KVA TOTAL				

GENERAL ELECTRIC NHB PANEL

- KVA TOTAL
- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

1 Existing Panelboard PP-A  
E002 Scale: None








































120/208V 3Ø 4W+G				BUS RATING: 225A						MLO	
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD	
CIRCULATING PUMP	EXISTING	15	1	-	-	-	2	20	EXISTING	RECPT W.P.G.F.I.	
SPACE	-		3	-	-	-	4	-	-	SPACE	
SPACE	-		5	-	-	-	6	-	-	SPACE	
SPACE	-		7	-	-	-	8	-	-	SPACE	
SPACE	-		9	-	-	-	10	-	-	SPACE	
SPACE	-		11	-	-	-	12	-	-	SPACE	
SPACE	-		13	-	-	-	14	-	-	SPACE	
SPACE	-		15	-	-	-	16	-	-	SPACE	
SPACE	-		17	-	-	-	18	60	EXISTING	STORAGE SHED FOR REC	
GAS FURNACE GF-1	(2) #12 CU & (1) #12 GND.	15	19	-	-	-	20	15	(2) #12 CU & (1) #12 GND.	GAS FURNACE GF-2	
GAS FURNACE GF-4	(2) #12 CU & (1) #12 GND.	15	21	-	-	-	22	15	(2) #12 CU & (1) #12 GND.	GAS FURNACE GF-3	
GAS FURNACE GF-5	(2) #12 CU & (1) #12 GND.	15	23	-	-	-	24	20	EXISTING	HEATER BATH SUPT	
UPS OUTLET	EXISTING	20	25	-	-	-	26	20	EXISTING	HEATER HALLWAY	
PERSONAL SEE OUTLET	EXISTING	20	27	-	-	-	28	20	EXISTING	HEATER VESTIBULE	
HALLWAY OUTLET/PERSONAL	EXISTING	20	29	-	-	-	30		-	-	
			31	-	-	-	32	50	EXISTING	HOT WATER HEATER	
CONDENSING UNIT CU-1	(2) #10 CU & (1) #10 GND.	25	33	-	-	-	34		-	-	
			35	-	-	-	36	35	(2) #8 CU & (1) #10 GND.	CONDENSING UNIT CU-3	
CONDENSING UNIT CU-5	(2) #6 CU & (1) #10 GND.	45	37	-	-	-	38		-	-	
			39	-	-	-	40	45	(2) #6 CU & (1) #10 GND.	CONDENSING UNIT CU-4	
CONDENSING UNIT CU-2	(2) #10 CU & (1) #10 GND.	30	41	-	-	-	42		-	SPACE	
GENERAL ELECTRIC NHB PANEL				-	-	-	- KVA TOTAL				

GENERAL ELECTRIC NHB PANEL

- KVA TOTAL
- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

1 Existing Panelboard PP-C  
E002 Scale: None

#### ELECTRICAL LEGEND:

-  MOTOR
-  EARTH GROUND
-  JUNCTION BOX
-  EMERGENCY POWER OFF BUTTON
-  PULL BOX
-  CORD REEL
-  FUSE WITH RATING
-  MOLDED CASE CIRCUIT BREAKER
-  DISCONNECT SWITCH, FUSED
-  DISCONNECT SWITCH, UNFUSED
-  STARTER, COMBINATION WITH DISCONNECT SWITCH
-  STARTER OR MOTOR CONTROLLER
-  METER
-  20A 120V DUPLEX CEILING MOUNTED RECEPTACLE
-  20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED
-  20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
-  20A 120V QUADRAPLEX RECEPTACLE
-  WALL MOUNTED SPECIAL PURPOSE RECEPTACLE
-  20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL
-  FLOOR BOX WITH STAINLESS COVER TYPICAL OF LEW EECTRIC #08-1-SP OR ACCEPTABLE EQUAL; PUSH BUTTON OPEN; FULLY IP66 RATED WATER PROOF (WHEN IN CLOSED POSITION); W/ 20A 125V E60120 GFCI RECEPTACLE (UNLESS OTHERWISE NOTED)
-  WALL PHONE OUTLET MTD. 48" A.F.F.; 3/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD
-  WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD
-  TELEPHONE/DATA COMMUNICATION BOX W/ (2) 3/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD; NO FACE PLATE
-  BRANCH CIRCUIT HOMERUN; LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL AND SWITCH LEG CONDUCTORS; ONE SEPARATE GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN, NOT SHOWN
-  SWITCH  
BLANK = SINGLE POLE  
2 = DOUBLE POLE  
3 = THREE-WAY  
4 = FOUR-WAY  
D = DIMMER  
K = KEY OPERATED  
P = WITH PILOT LIGHT  
T = TIMER OPERATED  
WP= WEATHER PROOF  
Wp= OCCUPANCY SENSOR
-  DUAL TECHNOLOGY OCCUPANCY SENSOR
-  DAYLIGHT SENSOR
-  HORN/STROBE DEVICE, ONE ASSEMBLY; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED
-  STROBE DEVICE; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED
-  MANUAL PULL STATION; MTD. 48" A.F.F.
-  WATER FLOW SWITCH
-  VALVE TAMPER SWITCH
-  DETECTOR; LETTER INDICATES AS FOLLOWS:  
BLANK = SMOKE DETECTOR  
P = PHOTOELECTRIC SMOKE  
M = MULTIPLE STATION SMOKE ALARM  
D = PHOTOELECTRIC DUCT SMOKE DETECTOR  
FSD = DUCT SMOKE DETECTOR FOR FIRE SMOKE DAMPER
-  RATE OF RISE HEAT DETECTOR, 135°F
-  CARBON MONOXIDE DETECTOR; MTD. 60" A.F.F.
-  ADDRESSABLE FIRE ALARM CONTROL PANEL
-  FIRE ALARM ANNUNCIATOR PANEL
-  REMOTE TEST SWITCH & LED FOR DUCT SMOKE DETECTORS
-  FIRE ALARM RELAY

#### ELECTRICAL NOTES:

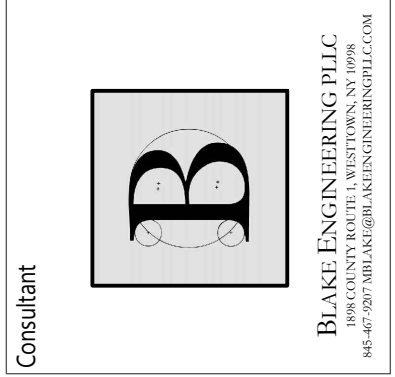
- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES, INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2017 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.
- LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS.
- CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.
- FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.
- MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILED ON THE DRAWINGS.
- ALL CONDUIT AND CABLE SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

WIRE COLOR CODING TABLE							
PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	GROUND
1	2 (1)	120	BLACK	-	-	WHITE	-
1	2 (1)	208	BLACK	RED	-	-	-
1	3	120	BLACK	-	-	WHITE	GREEN (2)
1	3	208	BLACK	RED	-	-	GREEN (2)
3	4	208	BLACK	RED	BLUE	-	GREEN (2)
3	5	208	BLACK	RED	BLUE	WHITE	GREEN (2)
1	3	277	BROWN	-	-	GRAY	GREEN (2)
1	3	480	BROWN	ORANGE	-	-	GREEN (2)
3	4	480	BROWN	ORANGE	YELLOW	-	GREEN (2)
3	5	480	BROWN	ORANGE	YELLOW	GRAY	GREEN (2)

NOTES:  
1. FOR DOUBLE INSULATED EQUIPMENT ONLY.  
2. GREEN/YELLOW MAY BE USED:  
- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES.  
- GREEN = 50 TO 70%, YELLOW = 50 TO 30%.  
- GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR.  
- GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING CONDUCTORS.

DEVICE MOUNTING HEIGHTS	
POWER RECEPTACLES (INTERIOR)	18" A.F.F.
POWER RECEPTACLES (EXTERIOR)	36" A.F.F.
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.
LIGHT SWITCHES	44" A.F.F. TO TOP OF DEVICE
DISCONNECT SWITCHES	SEE NEC 404.8(A)
TELEPHONE/DATA RECEPTACLES	18" A.F.F.
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF DEVICE
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F.F. MAX.
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F.F. MAX.
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.
TV & A/V OUTLETS	18" A.F.F.
NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED	

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VALLEY CENTRAL SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
2023 CAPITAL PROJECTS - PHASE 1

Project Title



#	DATE	DESCRIPTION

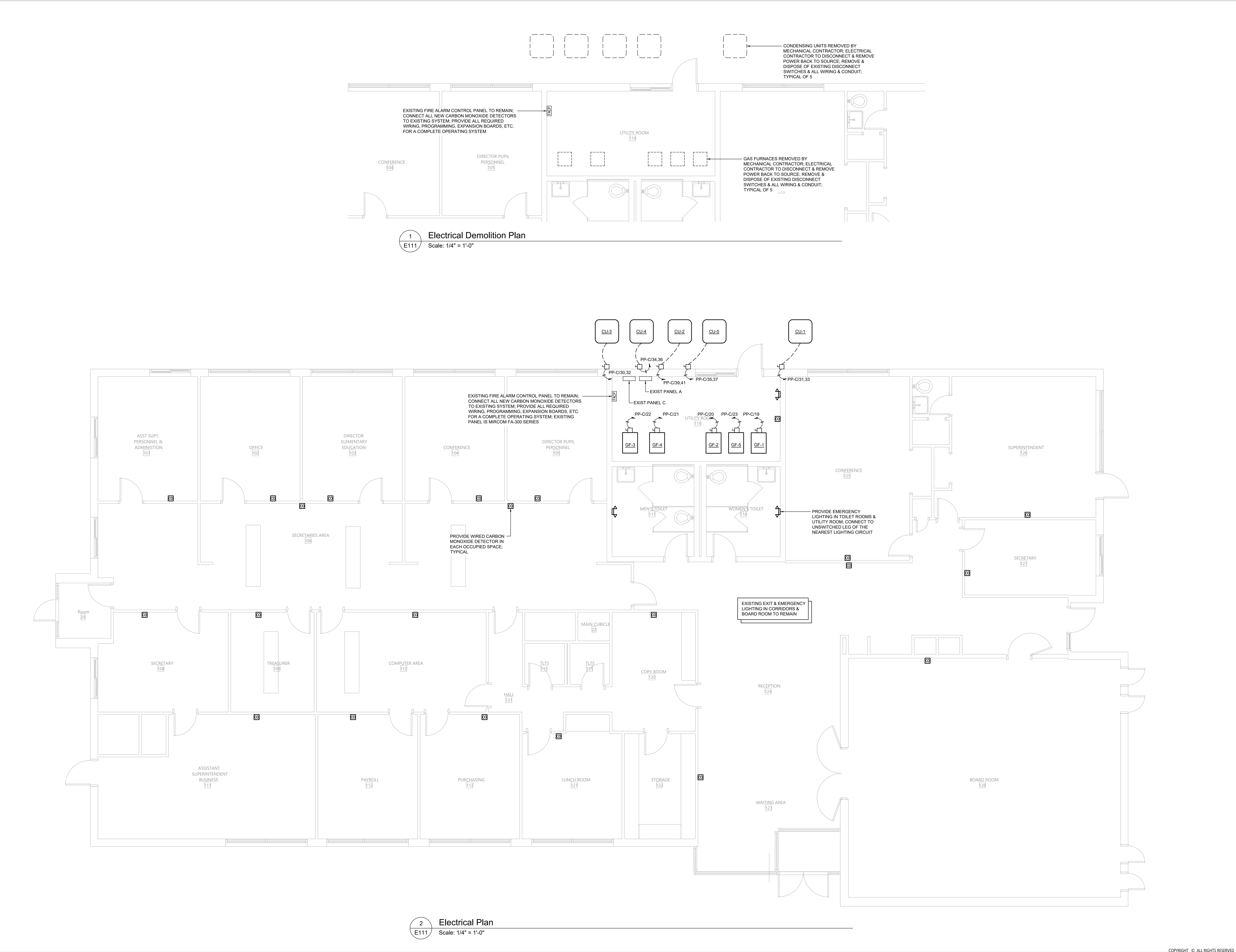
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Checked By: 44-13-01-06-0-005-006  
CSArch Proj. #: 187-2302.01  
Issued for Bid: 10/18/24

Sheet Title

ELECTRICAL  
NOTES,  
LEGENDS &  
SCHEDULES

Sheet No:  
ADMIN  
E001





1 Electrical Demolition Plan  
E111 Scale: 1/4" = 1'-0"

2 Electrical Plan  
E111 Scale: 1/4" = 1'-0"