

People-first places.

### Glen Oaks Community College Renovations to B and D Halls | 20220049

6/13/2024

### ADDENDUM NO. 3

This addendum is issued as a supplement to the plans and specifications and shall be considered an integral part of the same.

<b>Item:</b> Location: Description:	<ul> <li>3.01</li> <li>General</li> <li>All reference to vinyl graphics in the drawings will be provided and installed by owner. Strike vinyl graphics allowance reference in addendum #2. Viking head logo on reflected ceiling to be provided and installed by contractor. See A9.1b, for basis of design. Coordinate final graphics with owner.</li> </ul>
<b>Item:</b>	<b>3.02</b>
Location:	General, Mechanical
Description:	The controls contractor for this project shall be Controls Resources.
Item:	<b>3.03</b>
Location:	General, Mechanical
Description:	The variable frequency drives shall be provided by TCC and installed by EC.
Item:	<b>3.04</b>
Location:	Specifications, Section 12 24 13 - Roller Window Shades
Description:	Please note that Open Light Manual Shades has been added to the list of approved products.
<b>Item:</b> Location: Description:	<ul> <li>3.05</li> <li>Specifications, Section 21 13 13, Wet-Pipe Sprinkler Systems</li> <li>Original bid document specifications included Section 21 13 13 - Wet-Pipe Sprinkler Systems. This specification section can be removed, as the renovation area is not sprinkled, and additional fire-suppression will not be added.</li> </ul>
Item: Location: Description:	3.06 Reference Drawings, Cold Formed Stud See attached "Reference_Cold Formed Studs" for basis of design for cold formed stud. Basis of design is for bidding purposes only. Winning General Contractor is still required to have cold formed supplier engineer and design final stud sizes.

Item:	3.07
Location:	Drawings, Sheet A2.1 - Roof Plan
Description:	CLARIFICATION OF ALTERNATE #6: ROOF CORING WAS NOT PART OF THE 2018 BUILDING ENVELOPE ASSESSMENT APPROVED SCOPE AND THE
	AVAILABILITY OF EXISTING DRAWINGS WAS LIMITED.
	THEREFORE IT IS UNKNOWN WHAT MATERIALS CONSTITUTE THE CROSS SECTION OF ANY ROOF ASSEMBLY.
	ROOFING MATERIAL NOTES THAT APPEAR ON THE DRAWINGS WAS DERIVED FROM THE LIMITED DRAWINGS
	AVAILABLE TO THE ASSESSMENT TEAM. IT IS ALSO UNKNOWNN IF MINIMAL (1/8" PER 12") OR NO SLOPE IS BUILT INTO THE STRUCTURE OR IF THE EXISTING ROOF ASSEMBLY CONSISTS OF TAPERED INSULATION.
	DESIGN COLLABORATIVE CURRENTLY DOES NOT HAVE ENOUGH INFORMATION AT THIS POINT TO DIRECT
	BIDDING CONTRACTORS IF TAPERED INSULATION IS NEEDED OR WHAT THAT LAYOUT WOULD ENTAIL.
	IT IS SUGGESTED THE BIDDING CONTRACTOR BID DEMOLITION BASED ON DENOTED ROOF ASSEMBLY INFORMATION SHOWN AND THE INSTALLATION OF ROOF ASSEMBLIES RA-1, RA-2, RA-3 & RA-4 AS SHOWN ON
	SHEET A2.1 WITH FLAT STOCK INSULATION BOARDS FOR A MINIMAL SLOPE (1/8" PER 12") OR NO SLOPE
	INSTALLATION.
	TO COMPENSATE FOR A ROOF SYSTEM INSTALLED WITH MINIMAL SLOPE AT OR BELOW 1/8" PER 12" OR FLAT, DESIGN COLLABORATIVE RECOMMENDS THAT ROOFING CONTRACTORS INCLUDE REDUNDANT STRIPPING IN
	OF ALL TPO HEAT WELDED SEAMS WITH TPO COVER STRIPS IN THEIR BIDS. COVER STRIPS TO CONSIST OF 8"
	WIDE PIECES OF TPO CENTERED OVER THE PRIMARY TPO HEAT WELDED SEAM. HEAT WELD EACH EDGE
	ALONG ITS ENTIRE LENGTH TO THE PRIMARTY TPO FIELD SHEET.
	DESIGN COLLABORATIVE SUGGESTS AN ALLOWANCE OF \$5000 BE INCLUDED IN ROOFING CONTRACTORS BIDS FOR 2:1 LENGTH TO WIDTH RATIO SADDLES AND CRICKETS.
	IT IS RECOMMENDED THAT UPON ACCEPTANCE OF A ROOFING CONTRACTORS BID AND PRIOR TO
	CONSTRUCTION. THE SUCCESSFUL ROOFING CONTRACTOR PERFORM PRE-CONSTRUCTION CORES IN
	QUANTITES AND LOCATIONS AS NEEDED TO DETERMINE IF EXISTING ROOF MATERIALS DENOTED IS CORRECT, IF SLOPE IS BUILT INTO THE STRUCTURE OR WHAT THE EXTENT OF TAPERED INSULATION THICKNESS AND
	LAYOUT IS. PATCH ALL CORE LOCATIONS TO RE-ESTABLISH A PERMANENT WATER TIGHT CONDITION.
	IF DEMOLITION OF EXISTING ROOFING MATERIALS IS CONTRARY TO DENOTED SYSTEMS AND/OR IF AN
	EXISTING TAPERED INSULATION PACKAGE IS CONFIRMED, CONTRACTOR TO REQUEST THE DEVELOPMENT OF A PROPOSAL REQUEST FROM THE ARCHITECT FOR PRICING AND OWNER-ARCHITECT-CONTRACTOR (OAC)
	REVIEW AND CONSIDERATION.
Item:	3.06
Location:	Drawings, A11.1b, Floor Finish Plan - Main Level
Description:	CWT-1 updated to be Daltile Miramo-Oyster.
Item:	3.07
Location:	Drawings, A11.2b, Floor Finish Plan - Second Level
Description:	RF-1 color to be selected from manufacturer's standard line.
Item:	2.00
Location:	3.08 Drawings, Plumbing Plan Sheets
Description:	General plumbing note #2 shall be revised to require trap seal devices equal to Zurn Model Z1072 to be installed in floor
	drains in lieu of trap primer valves.
14	
Item: Location:	<b>3.09</b> Drawings, PD1.1b, Plumbing Demolition Plan - Main Level
Description:	Provided additional information regarding removal of piping in boiler room penetrating roof within area required for
	installation of new metal wall panel system. Refer to attached revised sheet for additional information.
láo ve s	2.40
Item: Location:	<b>3.10</b> Drawings, P1.1b, Plumbing Plan - Main Level
Description:	Provided additional information regarding relocation of piping within boiler room to avoid interference with new metal wall
'	panel system. Refer to attached revised sheet for additional information.
Item:	3.11 Drawings D2 1 Felerand Dlumbing Diana
Location: Description:	Drawings, P3.1, Enlarged Plumbing Plans Revised plumbing fixture tags of lavatories and urinals to align with previous project on north end of facility and as updated in
2.5001101011	plumbing fixture schedule. Refer to attached revised sheet for additional information.
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<b>Item:</b> Location: Description:	<b>3.12</b> Drawings, P4.1, Plumbing Schedules & Details Updated information in plumbing fixture schedule to align with tags, manufacturers, models,and accessories as provided in previous project on north end of facility. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<ul> <li>3.13</li> <li>Drawings, MD1.3b, Mechanical Demolition Plan - Roof Level</li> <li>Provided clarification on scope between Base Bid and Alternate #6 regarding relocation of existing roof mounted hydronic piping. Refer to attached revised sheet for additional information.</li> </ul>
<b>Item:</b> Location: Description:	<b>3.14</b> Drawings, M1.1b, Mechanical Plan - Main Level Provided additional information for relocation and installation of flues and combustion air connecting to gas-fired equipment in boiler room. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<b>3.15</b> Drawings, M1.1b, Mechanical Plan - Main Level Indicated extent of existing and new ductwork for one of the mains where it connects at an existing chase location. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<b>3.16</b> Drawings, M1.3, Mechanical Plan - Roof Level Provided clarification and additional information on scope requirements between Base Bid and Alternate #6 regarding relocation of existing roof mounted hydronic piping. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<b>3.17</b> Drawings, M3.1, Mechanical Plans - Fan Room Level & Underground, Plan 2/M3.1 Added hydronic terminal box on air handler #5 similar to existing boxes on the system to accommodate increased airflow on south end of lower concourse. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<b>3.18</b> Drawings, M3.1, Mechanical Plans - Fan Room Level & Underground, Plans 1/M3.1 and 2/M3.1 Revised terminal box serving north end of lower concourse level to remain existing. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<b>3.19</b> Drawings, M3.1, Mechanical Plans - Fan Room Level & Underground, Plan 2/M3.1 Added note for existing zone dampers at Air Hanlder #2 serving branch with new terminal boxes to be locked in open position.
<b>Item:</b> Location: Description:	<b>3.20</b> Drawings, M4.1, Mechanical Schedules & Details Added schedule and detail for hydronic terminal boxes. Refer to attached revised sheet for additional information.
<b>Item:</b> Location: Description:	<b>3.21</b> Drawings, M5.2, HVAC Controls Added sheet to set including control sequence for hot water terminal boxes and BAS specifications.

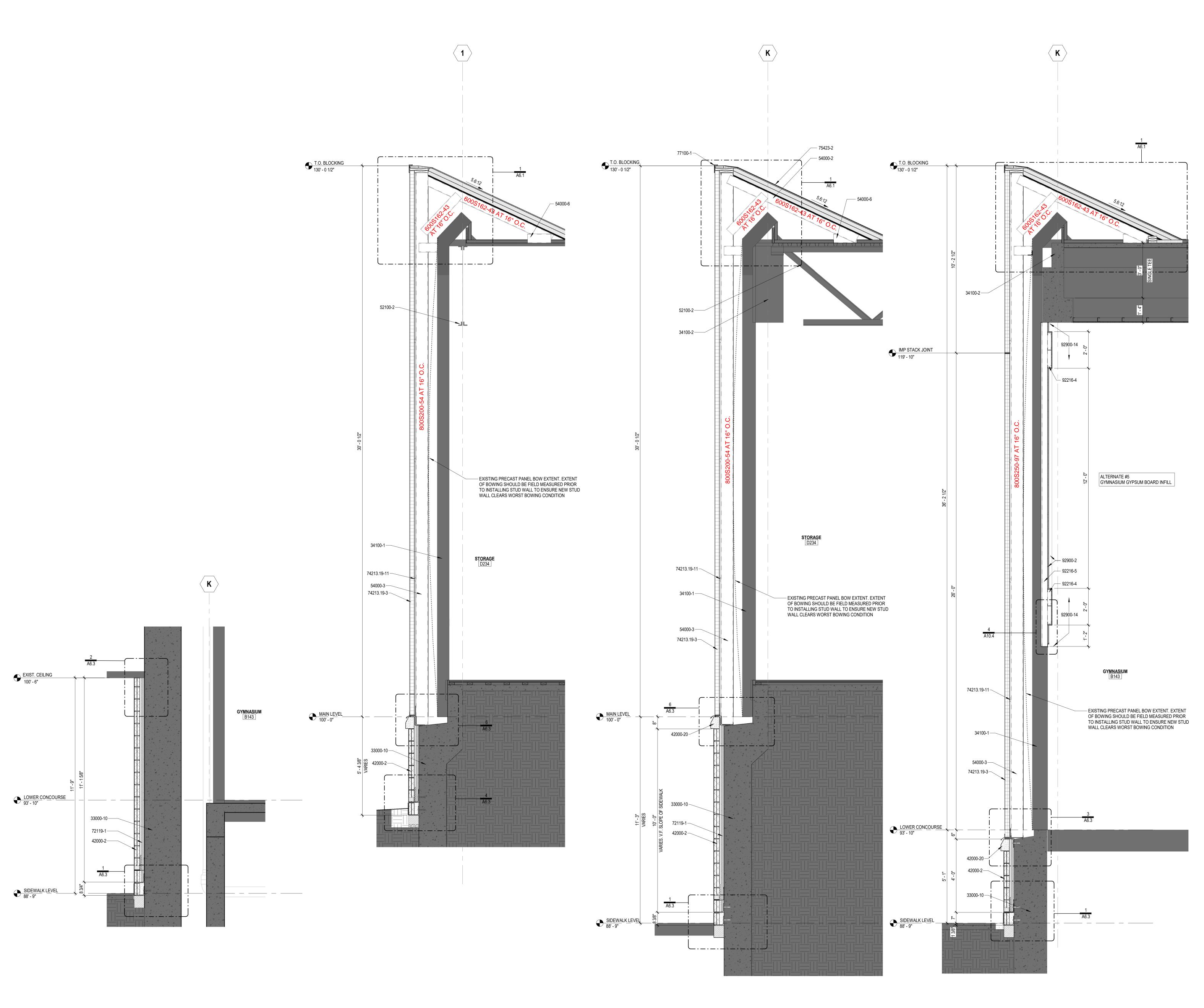
Each contractor is responsible for incorporating all changes into their bid.

Respectfully submitted,

-fund Affatfitt

Jeremiah M. Hatfield, RA, LEED BD+C, Senior Architect Design Collaborative, Inc.

# **REFERENCE ONLY - COLD FORMED STUDS**



NORTH FACADE AT CONCOURSE

4 SCALE: 1/2" = 1'-0"

**TYP. EAST FACADE** SCALE: 1/2" = 1'-0"

3

2 NORTH FACADE @ SIDEWALK SCALE: 1/2" = 1'-0"

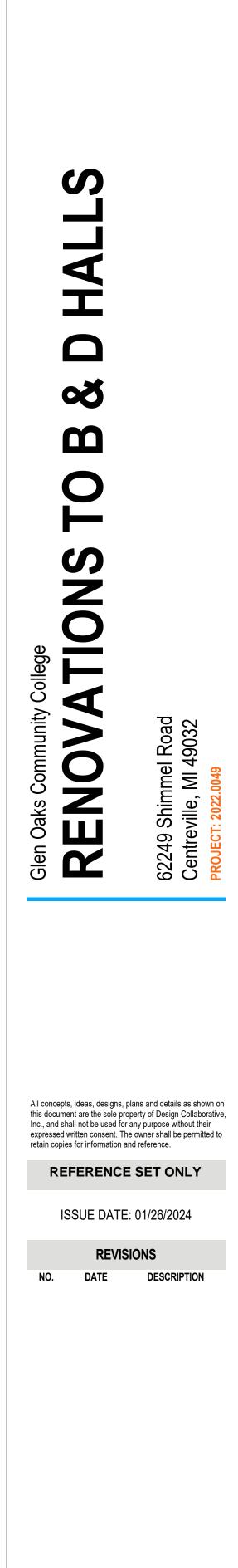
	WALL SECTION KEYNOTES
33000-10	EXISTING CONCRETE FOUNDATION TO REMAIN.
34100-1	EXISTING PRECAST STRUCTURAL CONCRETE WALL PANEL TO F
34100-2	EXISTING PRECAST STRUCTURAL CONCRETE BUILDING SUPPOR REMAIN.
42000-2	4" SPLITFACE CMU VENEER TIED BACK TO SUPPORTING SUBSTI ADJUSTABLE WIRE ANCHORS @ 32" O.C EACH WAY. OFFSET 16 FASTEN THROUGH TO BACK-UP/STRUCTURE.
42000-20	6" SPLITFACE SLOPED SILL. COLOR TO MATCH SPLITFACE BLOC
52100-2	EXISTING BAR JOIST TO REMAIN
54000-2	6" METAL STUDS. SEE SPECIFICATIONS.
54000-3	8" METAL STUDS. SEE SPECIFICATIONS.
54000-6	LIGHT GAUGE CLIP ANGLE CONNECTION TO EXISTING LIGHT GA DECK WITH MIN. OF (4) #10 TEK SCREWS
72119-1	2" SPRAY APPLIED CLOSED CELL POLYURETHANE FOAM INSULA
74213.19-3	3" PREFINISHED VERTICAL INSULATED METAL PANEL SYSTEM (F OF DESIGN METL-SPAN. COLOR TO BE ASH GRAY . SEE ELEVATI LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQU
74213.19-11	7/8" HAT CHANNEL PROVIDED BY IMP CONTRACTOR. SPACE HAT RECOMMENDED BY IMP MANUFACTURER PER THEIR WINDLOAD CRITERIA.
75423-2	SINGLE PLY MEMBRANE FLASHING. RUN UP UNDER COPING ANI MIN. AND ONTO ROOF MEMBRANE 4" MIN. SEE SPECIFICATIONS ATTACHMENT METHOD.
77100-1	PREFINISHED METAL EDGE FASCIA. SNAP-ON OVER METAL CLEA SUBSTRATE, INCLUDING EXPANSION CLOSURE AT EACH JOINT. "SMACNA DETAIL 3.4 SERIES.
92216-4	2-1/2" LIGHT GA. METAL STUDS
92216-5	3-5/8" LIGHT GA. METAL STUDS
92900-2	5/8" TYPE "X" GYP. BD., PAINTED. SEE FINISH SCHEDULE
92900-14	ALTERNATE #5: ON THE NORTH SIDE OF THE GYMNASIUM, BETW AT PRECAST PANELS, PROVIDE METAL STUD AND GYP. BD. INFI

1 NORTH FACADE SCALE: 1/2" = 1'-0"

D REMAIN. PORT SYSTEM TO
STRATE WITH 16" VERTICALLY.
ОСК.
GAUGE METAL
JLATION [SPUF] 1 (PANEL 1). BASIS ATIONS FOR QUIRED.
AT CHANNEL AS AD DESIGN NND DOWN FACE 2"
NS FOR LEAT SECURED TO IT. REFER TO
TWEEN COLUMNS IFILL.



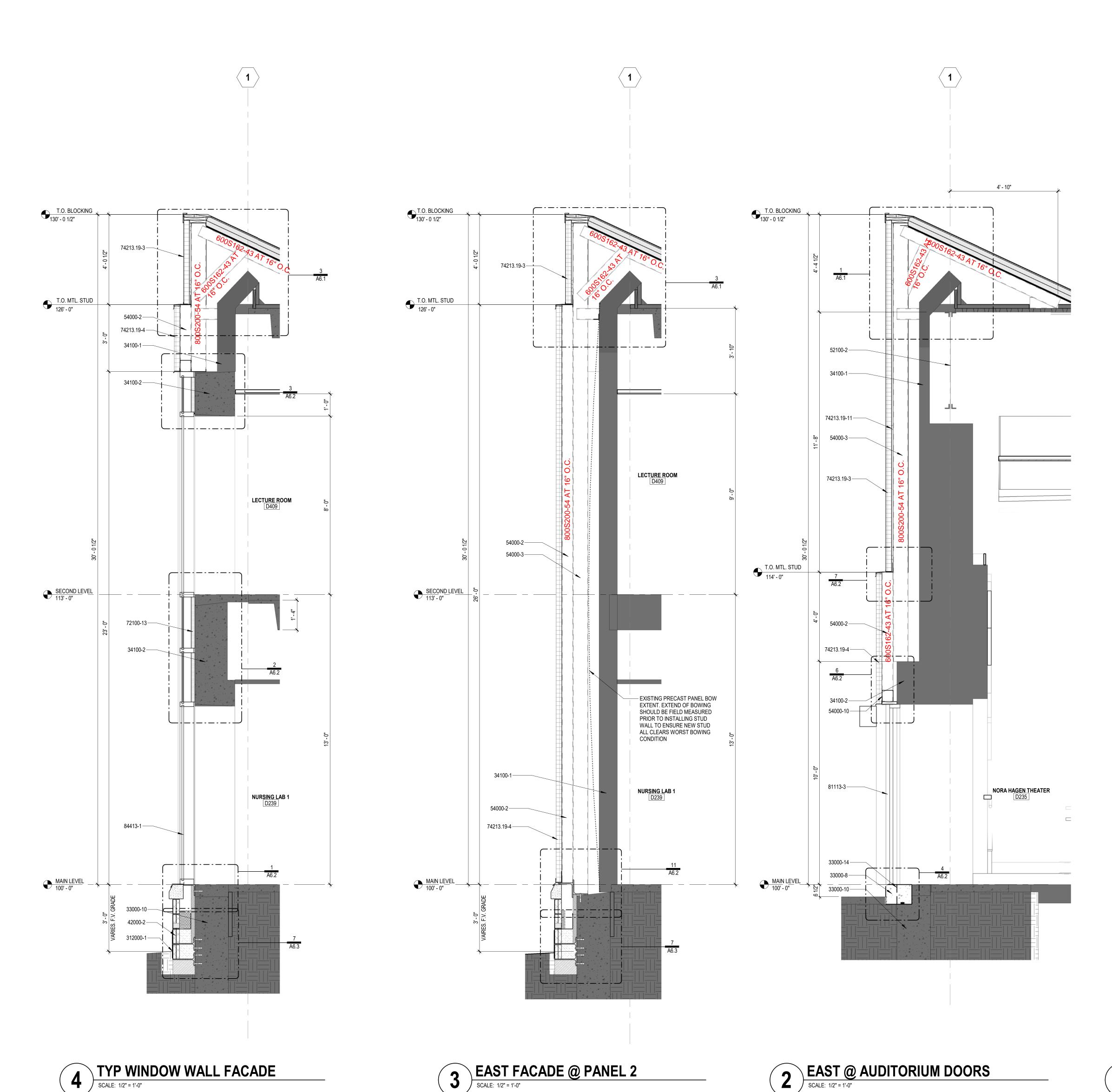
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WALL SECTIONS



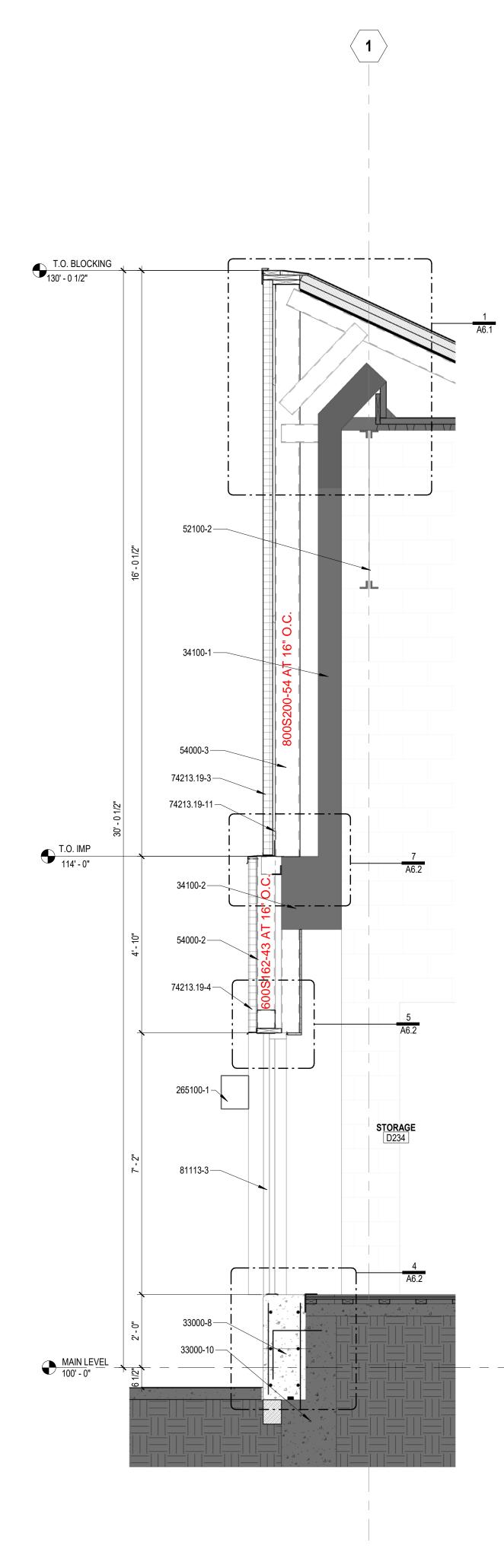
## **REFERENCE ONLY - COLD FORMED STUDS**



3 EAST FACADE @ PANEL 2 SCALE: 1/2" = 1'-0"

EAST @ AUDITORIUM DOORS **2** 

	WALL SECTION KEYNOTES
33000-8	CAST-IN-PLACE-CONCRETE INFILL WITH #4 HORIZONTAL BARS AT 12" O.C. BOTH SIDES.
33000-10	EXISTING CONCRETE FOUNDATION TO REMAIN.
33000-14	EXTENT OF CONCRETE FOUNDATION AND EMBEDDED STEEL AND SIDEWALK TO BE REMOVED. PREPARE FOUNDATION TO RECEIVE CONCRETE INFILL.
34100-1	EXISTING PRECAST STRUCTURAL CONCRETE WALL PANEL TO REMAIN.
34100-2	EXISTING PRECAST STRUCTURAL CONCRETE BUILDING SUPPORT SYSTEM TO REMAIN.
42000-2	4" SPLITFACE CMU VENEER TIED BACK TO SUPPORTING SUBSTRATE WITH ADJUSTABLE WIRE ANCHORS @ 32" O.C EACH WAY. OFFSET 16" VERTICALLY. FASTEN THROUGH TO BACK-UP/STRUCTURE.
52100-2	EXISTING BAR JOIST TO REMAIN
54000-2	6" METAL STUDS. SEE SPECIFICATIONS.
54000-3	8" METAL STUDS. SEE SPECIFICATIONS.
54000-10	COLD FRAMED STRUCTURAL BOX HEADER.
72100-13	1" MINERAL WOOL SPANDREL GLASS INSULATION (R=4.3) WITH A VAPOR RETARDING FOIL FACE. TAPE ALL PERIMETER JOINTS. MAINTAIN 3/4" MINIMUM BETWEEN #4 SURFACE OF GLASS AND BACKSIDE OF SPANDREL INSULATION BOARD. BOD: OWENS CORNING THERMAFIBER 40 (4 PCF).
74213.19-3	3" PREFINISHED VERTICAL INSULATED METAL PANEL SYSTEM (PANEL 1). BASIS OF DESIGN METL-SPAN. COLOR TO BE ASH GRAY . SEE ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQUIRED.
74213.19-4	3" PREFINISHED HORIZONTAL INSULATED METAL PANEL SYSTEM (PANEL 2). BASIS OF DESIGN METL-SPAN. COLOR TO BE CHARCOAL GRAY. SEE ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQUIRED.
74213.19-11	7/8" HAT CHANNEL PROVIDED BY IMP CONTRACTOR. SPACE HAT CHANNEL AS RECOMMENDED BY IMP MANUFACTURER PER THEIR WINDLOAD DESIGN CRITERIA.
81113-3	HOLLOW METAL DOOR, INSULATED, SEE SCHEDULE
84413-1	THERMALLY BROKEN ALUMINUM CURTAINWALL SYSTEM. BASIS OF DESIGN - "KAWNEER 1600 WALL SYSTEM". SEE FRAME ELEVATIONS FOR GLASS TYPES.
265100-1	LIGHT FIXTURE, SEE ELECTRICAL
312000-1	FINISHED GRADE, SLOPE AWAY FROM STRUCTURE, TYP. FIELD VERIFY EXISTING GRADES AROUND BUILDING. NEW GRADE AND SLOPE TO MATCH EXISTING.



STAGE DOOR INFILL SCALE: 1/2" = 1'-0"

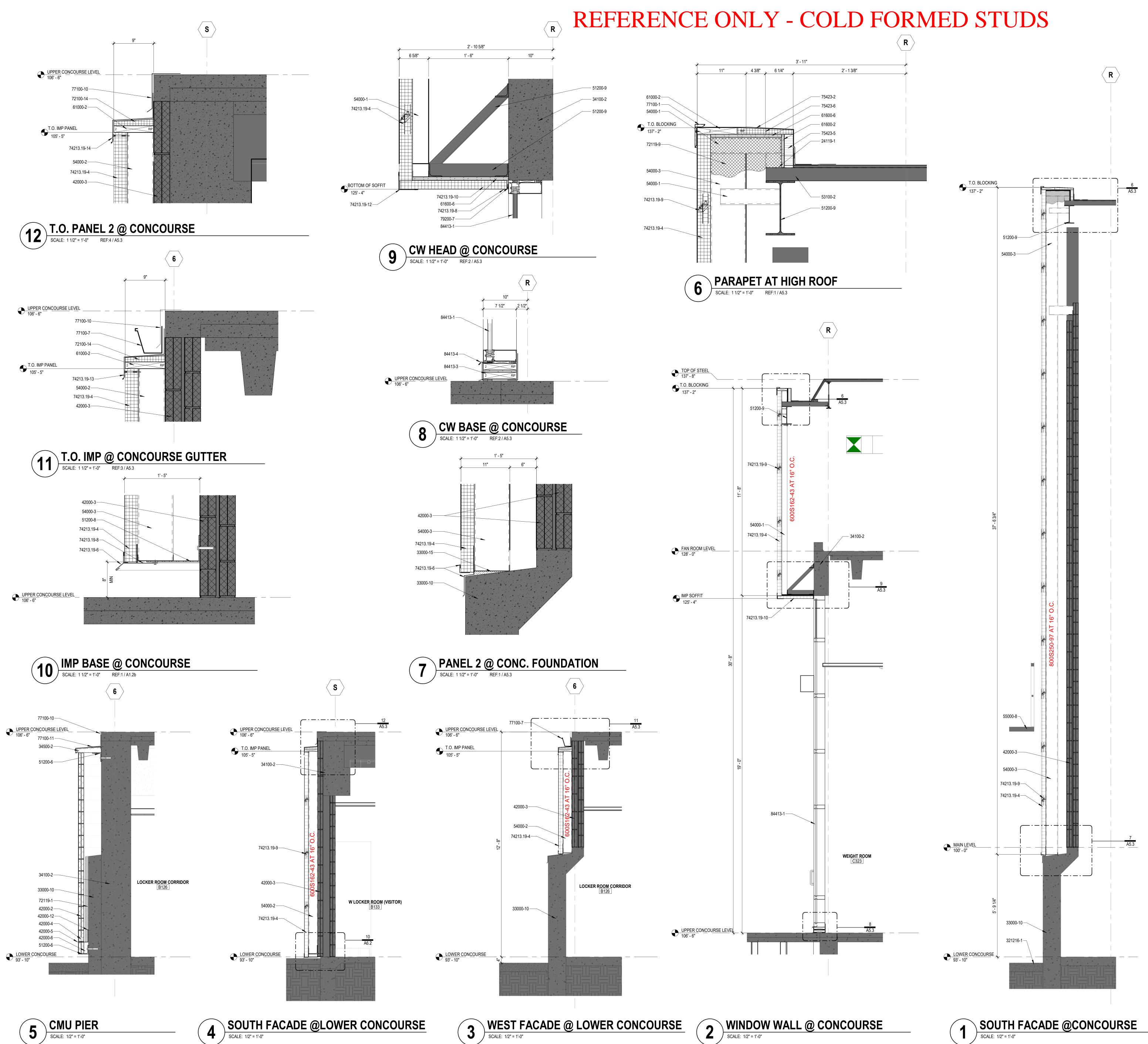
## RS AT 12" O.C. BOT L AND SIDEWALK CRETE INFILL. TO REMAIN. PPORT SYSTEM TO BSTRATE WITH T 16" VERTICALLY.





WALL SECTIONS



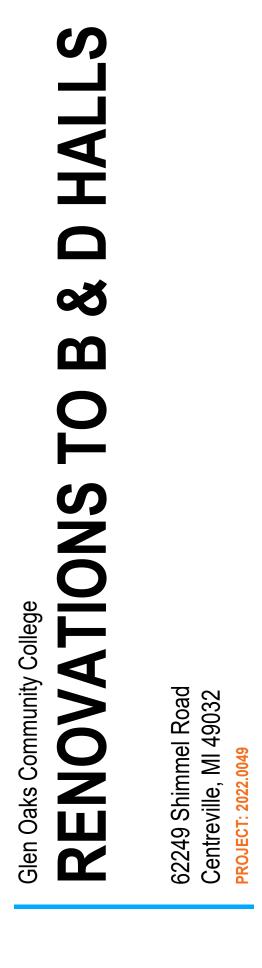


	WALL SECTION KEYNOTES
24119-1	CUT BACK EXISTING ROOFING MEMBRANE AND INSULATION TO MAKE ROOM FOR NEW PARAPET WALL.
33000-10	EXISTING CONCRETE FOUNDATION TO REMAIN.
33000-15	NON-SHRINK GROUT UNDER METAL STUD BASE TRACK. FORM TO PROVIDE LEVEL SURFACE FOR STUDS TO BEAR ON.
34100-2	EXISTING PRECAST STRUCTURAL CONCRETE BUILDING SUPPORT SYSTEM TO REMAIN.
34500-2	PRECAST COPING PROFILE WITH INTEGRAL CONTINUOUS DRIP.
42000-2	4" SPLITFACE CMU VENEER TIED BACK TO SUPPORTING SUBSTRATE WITH ADJUSTABLE WIRE ANCHORS @ 32" O.C EACH WAY. OFFSET 16" VERTICALLY. FASTEN THROUGH TO BACK-UP/STRUCTURE.
42000-3	EXISTING MASONRY WALL TO REMAIN.
42000-4 42000-5	POLYPROPYLENE BRICK VENTS, FULL DEPTH OF MASONRY VENEER @ 24" O.C 26 GA., TYPE 304 STAINLESS STEEL DRIP PLATE. DRIP PLATE SET IN A FULL BE
42000-6	OF WATER CUT OFF MASTIC. GROUT AIR SPACE SOLID FROM BOTTOM OF FLASHING TO TOP OF MASONRY
42000-12	SUPPORT STEEL ANGLE FULLY SUPPORTED THROUGH WALL FLASHING. RUN UP SUPPORTING SUBSTRATE 8" MIN. SECURE W/METAL TERM. BAR SECURED TO SUBSTRATE W GASKETED FASTENERS @ 16" O.C. PROVIDE CONTINUOUS SEALANT AT TOP O TERM. BAR.
51200-6	L6x6x5/16, GALVANIZED, WITH 1/2" DIA. HILTI KWIK BOLT TZ AT 12" O.C. WITH 2-1/2" EMBEDMENT INTO EXISTING CONCRETE.
51200-8	1/4"x6"x12" GALVANIZED BENT PLATE WITH 1/2" DIA. HILTI HAS-V-36 RODS AT 8" O.C. WITH HILTI HY270 ADHESIVE.
51200-9	EXISTING STEEL FRAMING TO REMAIN.
53100-2	EXISTING STEEL DECKING TO REMAIN.
54000-1	3-5/8" METAL STUDS. SEE SPECIFICATIONS.
54000-2	6" METAL STUDS. SEE SPECIFICATIONS.
54000-3 55000-8	8" METAL STUDS. SEE SPECIFICATIONS. EXISTING METAL EMERGENCY ESCAPE CATWALK TO REMAIN. CONTRACTOR T REMOVE CATWALK IF NECESSARY TO INSTALL IMP PANELS.
61000-2	2x WOOD BLOCKING, TREATED. SECURE TO SUBSTRATE WITH STAINLESS STEEL FASTENERS.
61600-2	5/8" PLYWOOD SHEATHING, EXTERIOR GRADE
61600-6	3/4" FIRE TREATED PLYWOOD SHEATHING
72100-14	TAPERED INSULATION WITH POSITIVE SLOPE, ANCHORED TO TOP OF BLOCKING.
72119-1	2" SPRAY APPLIED CLOSED CELL POLYURETHANE FOAM INSULATION [SPUF]
72119-9	SPRAY APPLIED CLOSED CELL POLYURETHANE FOAM INSULATION AT - R-38 MIN.
74213.19-4	3" PREFINISHED HORIZONTAL INSULATED METAL PANEL SYSTEM (PANEL 2). BASIS OF DESIGN METL-SPAN. COLOR TO BE CHARCOAL GRAY. SEE ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQUIRED.
74213.19-6	PREFINISHED METAL SILL FLASHING TO MATCH METAL PANEL SYSTEM
74213.19-8 74213.19-9	PREFINISHED METAL CLOSURE PIECE TO MATCH METAL PANEL SYSTEM HORIZONTAL PANEL JOINT. FOLLOW MANUFACTURERS STANDARD DETAILS
74213.19-10	FOR JOINTS AND SEALANT. 2" PREFINISHED INSULATED METAL SOFFIT PANELS. SEE SPECIFICATIONS FOI SPECIFIC SYSTEM REQUIRED.
74213.19-12	BRAKE METAL CORNER TRIM TO MATCH METAL WALL PANEL.
74213.19-13	PREFINISHED METAL SILL FLASHING TO MATCH METAL PANEL SYSTEM. RUN VERTICAL LEG UP BEHIND NEW GUTTER AND EXISTING ROOF FLASHING. SECURE HEMMED EDGE TO PANEL, AND APPLY WATER CUT OFF MASTIC BETWEEN FLASHING AND PANEL.
74213.19-14	PREFINISHED METAL SILL FLASHING TO MATCH METAL PANEL SYSTEM. RUN VERTICAL LEG UP BEHIND EXISTING ROOF FLASHING. SECURE HEMMED EDGE TO PANEL, AND APPLY WATER CUT OFF MASTIC BETWEEN FLASHING AND PANEL.
75423-2	SINGLE PLY MEMBRANE FLASHING. RUN UP UNDER COPING AND DOWN FACE MIN. AND ONTO ROOF MEMBRANE 4" MIN. SEE SPECIFICATIONS FOR ATTACHMENT METHOD.
75423-5	1-1/2" POLYISOCYANURATE INSULATION BOARD (R=9) FOR ALL INSIDE FACE PARAPET WALL CONDITIONS ABOVE ROOF LINE. ADHERE POLYISO BOARD TO EXTERIOR GRADE SHEATHING. TEMPORARILY SECURE WITH FASTENERS.
75423-6	POLYISOCYANURATE TAPERED EDGE STRIP. ADHERE TAPERED EDGE STRIP TO SUBSTRATE FRAMING.
77100-1	PREFINISHED METAL EDGE FASCIA. SNAP-ON OVER METAL CLEAT SECURED T SUBSTRATE, INCLUDING EXPANSION CLOSURE AT EACH JOINT. REFER TO "SMACNA DETAIL 3.4 SERIES.
77100-7	PREFINISHED EXTERIOR HUNG METAL GUTTER, TO MATCH METAL PANEL, W/ SUPPORT BRACKETS & ACCESSORIES, SLOPE 1/8" MIN. FASTEN NEW GUTTER UNDER EXISTING ROOF FLASHING. TIE INTO EXISTING STORM LOCATION, DOWNSPOUT COLOR TO MATCH GUTTER.
77100-10	EXISTING ROOF FLASHING TO REMAIN. FLASHING TO BE PAINTED WITH HIGH PERFORMANCE PAINT TO MATCH METAL PANEL SYSTEM.
77100-11	PREFINISHED METAL SILL FLASHING TO MATCH METAL PANEL SYSTEM. RUN VERTICAL LEG UP BEHIND EXISTING ROOF FLASHING.
79200-7	BACKER ROD AND SEALANT
84413-1	THERMALLY BROKEN ALUMINUM CURTAINWALL SYSTEM. BASIS OF DESIGN - "KAWNEER 1600 WALL SYSTEM". SEE FRAME ELEVATIONS FOR GLASS TYPES
84413-3	BUILD UP CURB FOR BASE OF CURTAIN WALL. SET BUILT UP 2X TREATED LUMBER IN BED OF WATER CUT OFF MASTIC. WRAP CURB IN 0.050" CONTINUOUS ALUMINUM SHEET METAL TO MATCH CURTAIN WALL. RUN INTERIOR VERTICAL LEG UP AND ADHERE TO BASE MULLION.
84413-4	0.050" CONTINUOUS ALUMINUM WINDOW SILL TRIM FLASHING WITH HEMMED EDGE. TURN VERTICAL LEG TRIM UP BEHIND CURTAIN WALL PRESSURE PLATI SEAL ALL LAP UNITS WATER TIGHT.
321216-1	EXISTING ASPHALT PAVING TO REMAIN

321216-1 EXISTING ASPHALT PAVING TO REMAIN



200 East Main	200 East Main Street
Suite 600	Suite 600
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260.422.4241	260.422.4241
260.422.4847	260.422.4847



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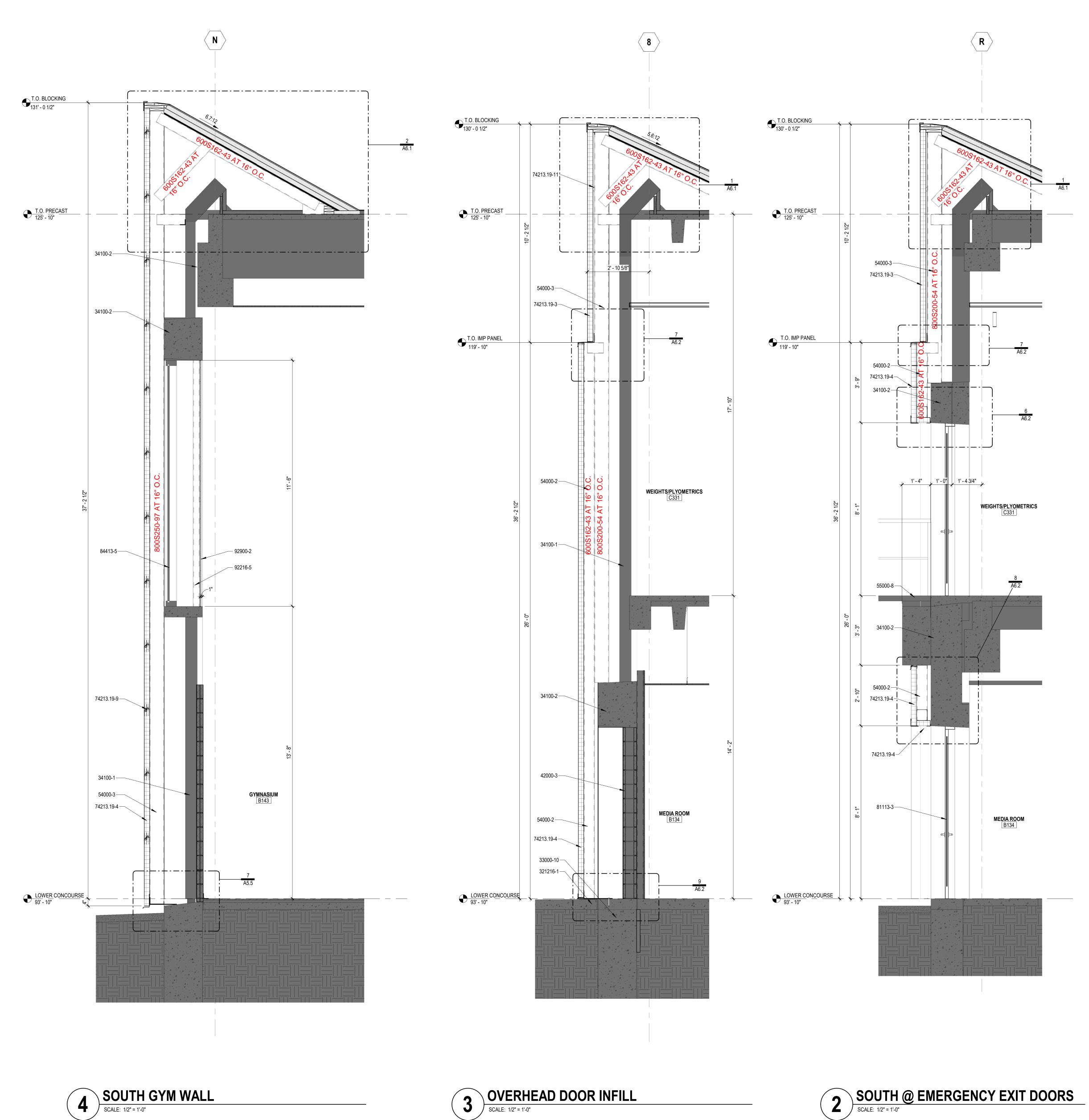
ISSUE DATE: 01/26/2024

REVISIONS DESCRIPTION NO. DATE



A5.3

## **REFERENCE ONLY - COLD FORMED STUDS**



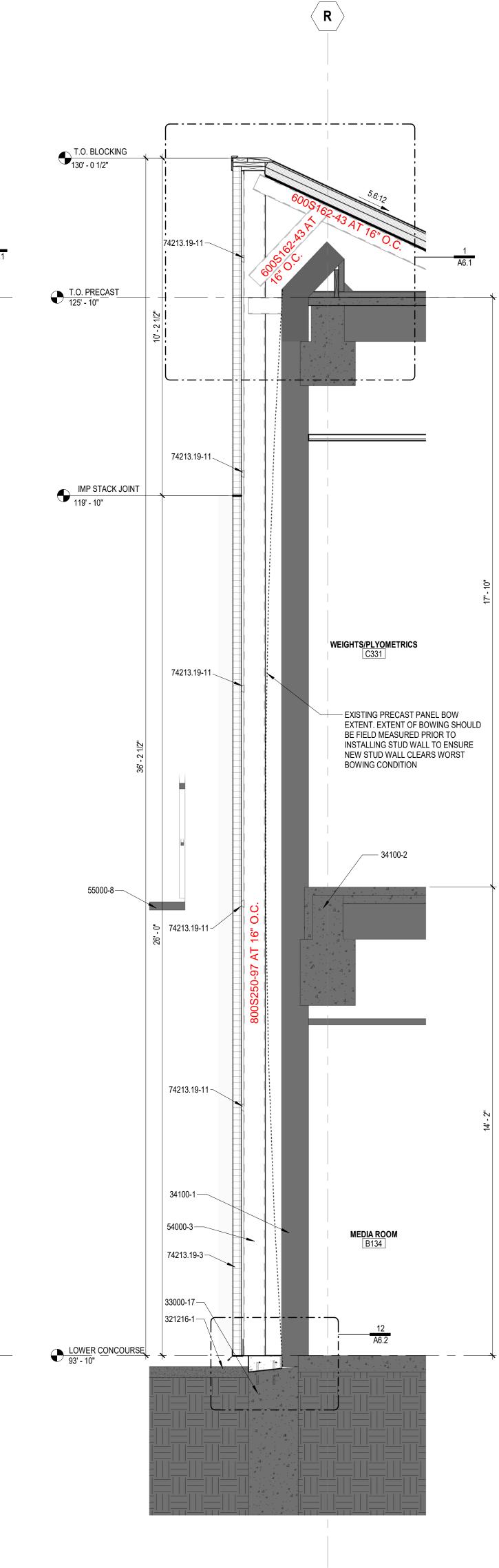
SOUTH GYM WALL

4 SOUTH G SCALE: 1/2" = 1'-0"

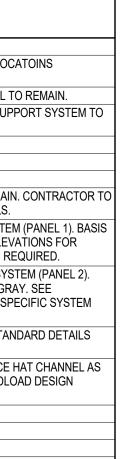
**OVERHEAD DOOR INFILL** SCALE: 1/2" = 1'-0"

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	WALL SECTION KEYNOTES
33000-10	EXISTING CONCRETE FOUNDATION TO REMAIN.
33000-17	EXISTING CONCRETE FOUNDATION WALL, FIELD VERIFY LOCA REQUIRING EPOXY CRACK REPAIR.
34100-1	EXISTING PRECAST STRUCTURAL CONCRETE WALL PANEL TO
34100-2	EXISTING PRECAST STRUCTURAL CONCRETE BUILDING SUPP REMAIN.
42000-3	EXISTING MASONRY WALL TO REMAIN.
54000-2	6" METAL STUDS. SEE SPECIFICATIONS.
54000-3	8" METAL STUDS. SEE SPECIFICATIONS.
55000-8	EXISTING METAL EMERGENCY ESCAPE CATWALK TO REMAIN. REMOVE CATWALK IF NECESSARY TO INSTALL IMP PANELS.
74213.19-3	3" PREFINISHED VERTICAL INSULATED METAL PANEL SYSTEM OF DESIGN METL-SPAN. COLOR TO BE ASH GRAY . SEE ELEVA LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REC
74213.19-4	3" PREFINISHED HORIZONTAL INSULATED METAL PANEL SYST BASIS OF DESIGN METL-SPAN. COLOR TO BE CHARCOAL GRA ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPE REQUIRED.
74213.19-9	HORIZONTAL PANEL JOINT. FOLLOW MANUFACTURERS STANE FOR JOINTS AND SEALANT.
74213.19-11	7/8" HAT CHANNEL PROVIDED BY IMP CONTRACTOR. SPACE H RECOMMENDED BY IMP MANUFACTURER PER THEIR WINDLO/ CRITERIA.
81113-3	HOLLOW METAL DOOR, INSULATED, SEE SCHEDULE
84413-5	EXISTING CURTAIN WALL SYSTEM TO REMAIN.
92216-5	3-5/8" LIGHT GA. METAL STUDS
92900-2	5/8" TYPE "X" GYP. BD., PAINTED. SEE FINISH SCHEDULE
321216-1	EXISTING ASPHALT PAVING TO REMAIN



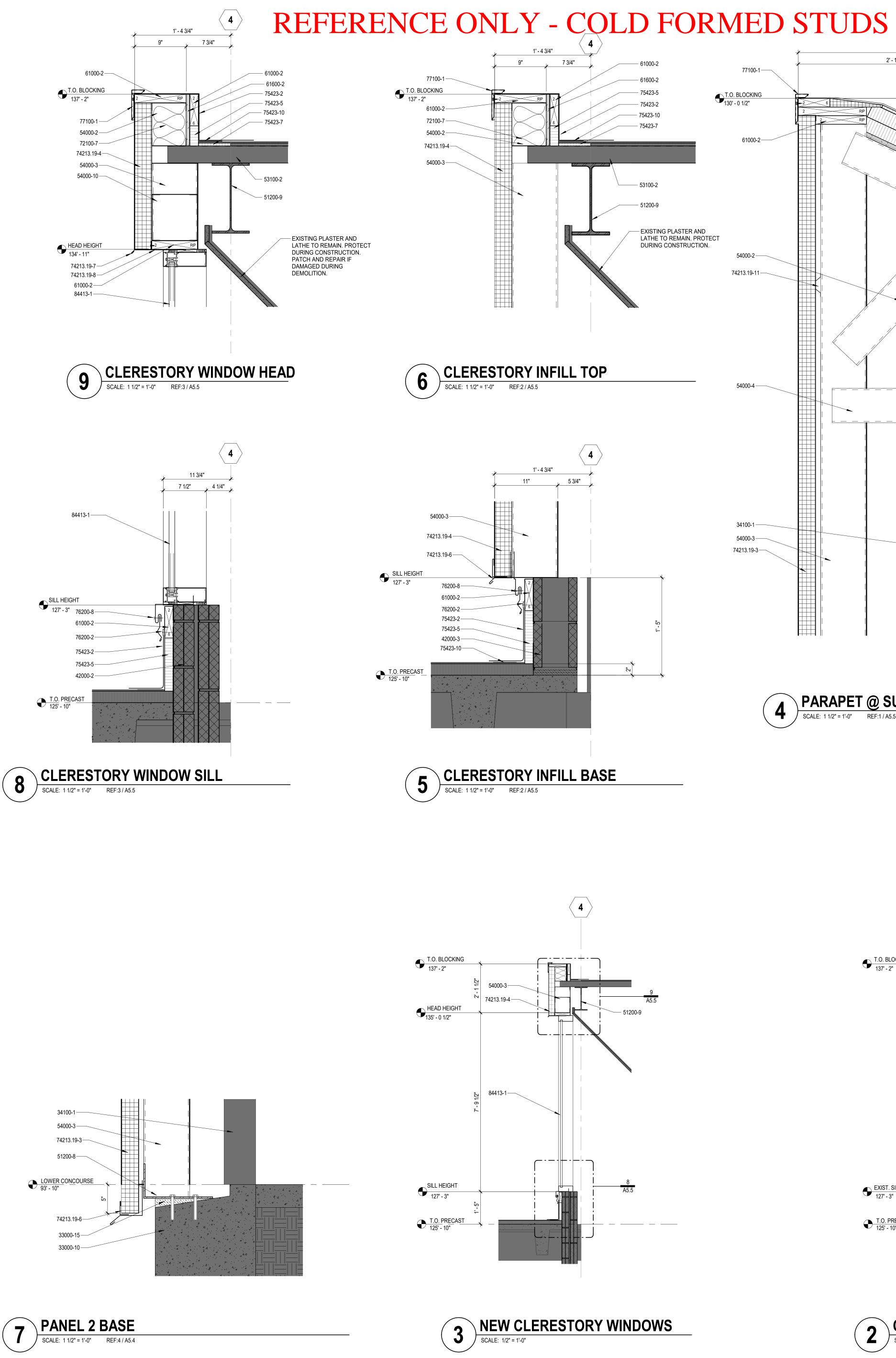
**SOUTH FACADE @ PANEL 1** SCALE: 1/2" = 1'-0"

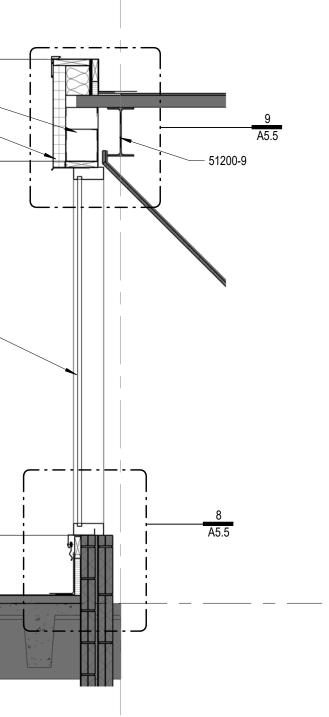


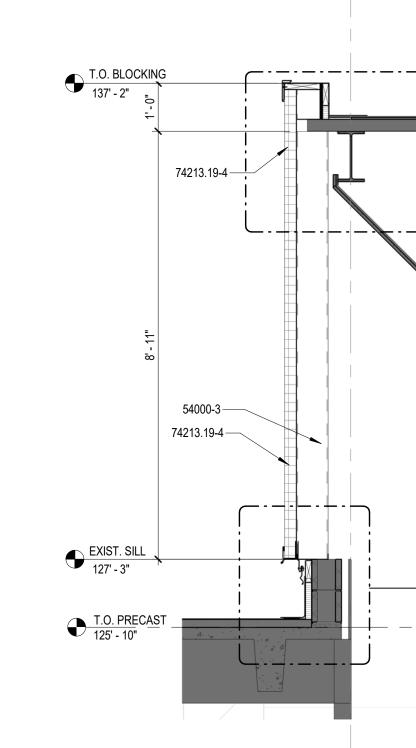










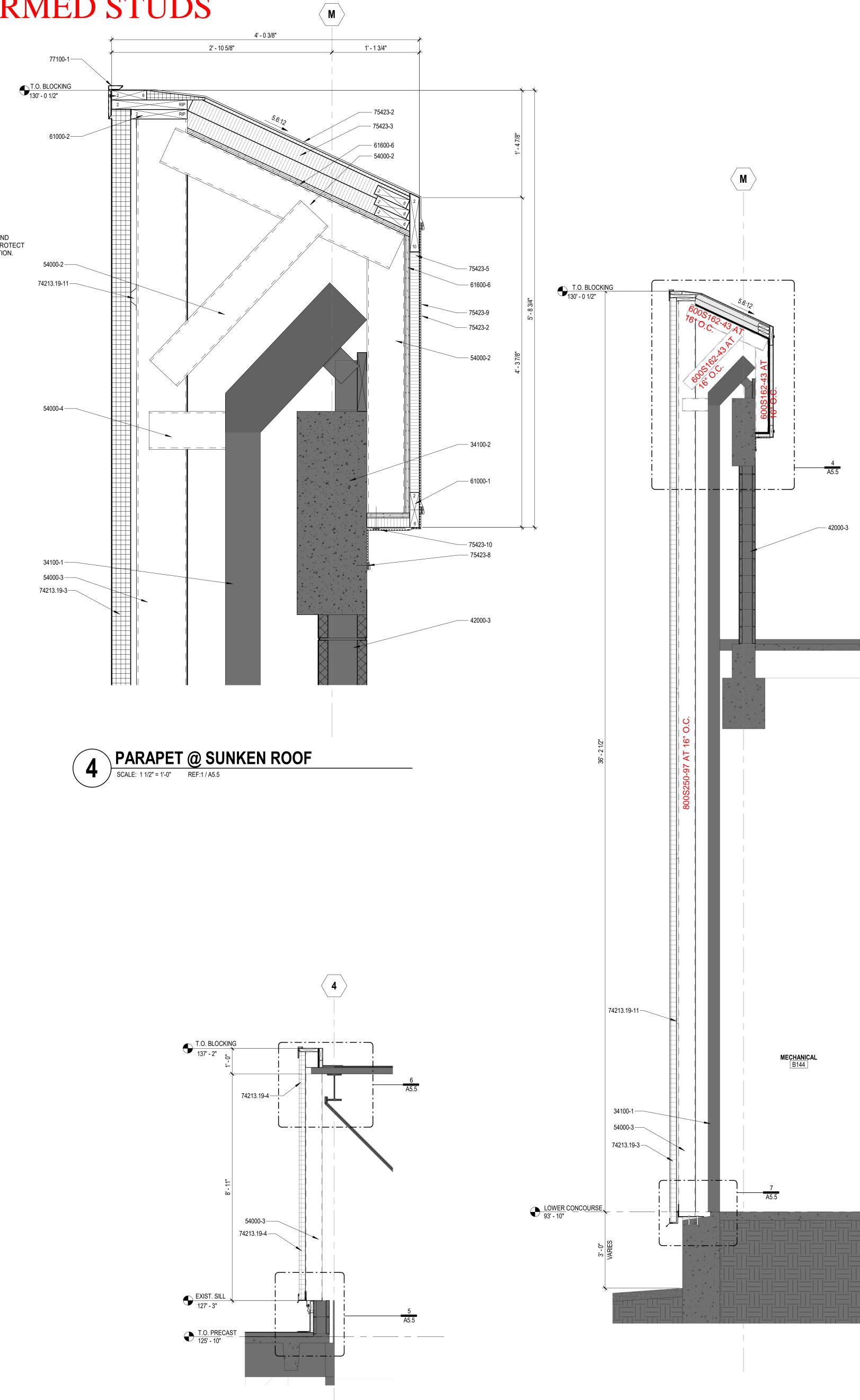


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SCALE: 1/2" = 1'-0"



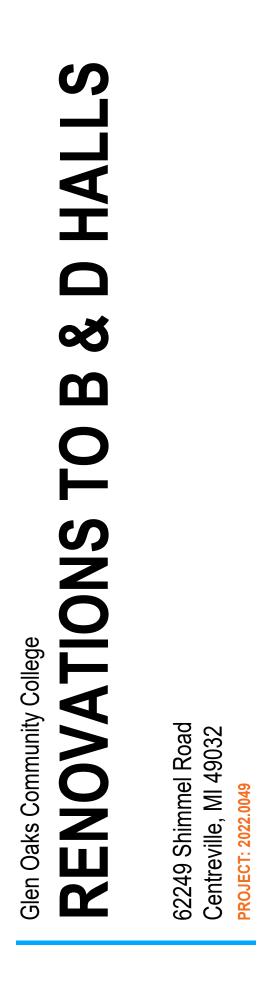


	WALL SECTION KEYNOTES
33000-10	EXISTING CONCRETE FOUNDATION TO REMAIN.
33000-15	NON-SHRINK GROUT UNDER METAL STUD BASE TRACK. FORM TO PROVIDE LEVEL SURFACE FOR STUDS TO BEAR ON.
34100-1 34100-2	EXISTING PRECAST STRUCTURAL CONCRETE WALL PANEL TO REMAIN. EXISTING PRECAST STRUCTURAL CONCRETE BUILDING SUPPORT SYSTEM TO REMAIN.
42000-2	4" SPLITFACE CMU VENEER TIED BACK TO SUPPORTING SUBSTRATE WITH ADJUSTABLE WIRE ANCHORS @ 32" O.C EACH WAY. OFFSET 16" VERTICALLY. FASTEN THROUGH TO BACK-UP/STRUCTURE.
42000-3	EXISTING MASONRY WALL TO REMAIN.
51200-8	1/4"x6"x12" GALVANIZED BENT PLATE WITH 1/2" DIA. HILTI HAS-V-36 RODS AT 8" O.C. WITH HILTI HY270 ADHESIVE.
51200-9	EXISTING STEEL FRAMING TO REMAIN.
53100-2	EXISTING STEEL DECKING TO REMAIN.
54000-2	6" METAL STUDS. SEE SPECIFICATIONS.
54000-3 54000-4	8" METAL STUDS. SEE SPECIFICATIONS. LIGHT GAUGE CLIP ANGLE CONNECTION TO EXISTING PRECAST WALL PANEL AT EXISTING ROOF LEVEL. FASTEN TO EXISTING PRECAST PANEL WITH (2) 1/4" DIA. x 3" HILTI KWIK HUS-EZ AT 4" O.C.
54000-10	COLD FRAMED STRUCTURAL BOX HEADER.
61000-1	2x WOOD BLOCKING. SECURE TO SUBSTATE.
61000-2	2x WOOD BLOCKING, TREATED. SECURE TO SUBSTRATE WITH STAINLESS STEEL FASTENERS.
61600-2	5/8" PLYWOOD SHEATHING, EXTERIOR GRADE
61600-6	
72100-7 74213.19-3	5-1/2" MINERAL WOOD UNFACED BATT INSULATION. 3" PREFINISHED VERTICAL INSULATED METAL PANEL SYSTEM (PANEL 1). BASIS OF DESIGN METL-SPAN. COLOR TO BE ASH GRAY . SEE ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQUIRED.
74213.19-4	3" PREFINISHED HORIZONTAL INSULATED METAL PANEL SYSTEM (PANEL 2). BASIS OF DESIGN METL-SPAN. COLOR TO BE CHARCOAL GRAY. SEE ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQUIRED.
74213.19-6	PREFINISHED METAL SILL FLASHING TO MATCH METAL PANEL SYSTEM
74213.19-7	PREFINISHED METAL HEAD FLASHING WITH DRIP TO MATCH METAL PANEL SYSTEM
74213.19-8	PREFINISHED METAL CLOSURE PIECE TO MATCH METAL PANEL SYSTEM
74213.19-11	7/8" HAT CHANNEL PROVIDED BY IMP CONTRACTOR. SPACE HAT CHANNEL AS RECOMMENDED BY IMP MANUFACTURER PER THEIR WINDLOAD DESIGN CRITERIA.
75423-2	SINGLE PLY MEMBRANE FLASHING. RUN UP UNDER COPING AND DOWN FACE 2 MIN. AND ONTO ROOF MEMBRANE 4" MIN. SEE SPECIFICATIONS FOR ATTACHMENT METHOD.
75423-3	(2) 2 1/2" MINIMUM RIGID POLYISOCYANURATE INSULATION (R=14.4). BASE AND SECOND LAYER (STAGGERED 6" MIN.) TACKED DOWN. (1) 1/2" HIGH DENSITY POLYISOCYANURATE COVERBOARD (R=2.5), LOOSE LAID. MECHANICALLY FASTEN THROUGH THE LOOSE LAYERS OF POLYISO INTO THE SHEATHING.
75423-5	1-1/2" POLYISOCYANURATE INSULATION BOARD (R=9) FOR ALL INSIDE FACE PARAPET WALL CONDITIONS ABOVE ROOF LINE. ADHERE POLYISO BOARD TO EXTERIOR GRADE SHEATHING. TEMPORARILY SECURE WITH FASTENERS.
75423-7	REMOVE EXISTING ROOF MEMBRANE AND INSULATION TO EXPOSE DECKING TO ALLOW FOR NEW PARAPET WALL TO BE CONSTRUCTED. COVER BACK WITH INSULATION TO MATCH EXISTING THICKNESS.
75423-8	PROVIDE WATER BLOCK AND MASTIC BETWEEN ROOF MEMBRANE AND SUBSTRATE AT TERMINATION BAR. WRAP NEXT LAYER OF ROOF MEMBRANE FLASHING AROUND TERMINATION BAR. FASTEN TERMINATION BAR THROUGH BOTH LAYERS OF ROOF MEMRBANE INTO BLOCKING. PROVIDE ROOF SEALANT AT ROOF MEMBRANE WRAP OF TERMINATION BAR.
75423-9	BONDING ADHESIVE.
75423-10	RUSS STRIP. MECHANICALLY FASTEN THROUGH INSULATION INTO SUBSTRATE
76200-2 76200-8	TERMINATION BAR WITH WATER BLOCK AND ROOFING SEALANT. (2) PIECE ALUMINUM RECEIVER REGLET FLASHING AND REMOVABLE
77100-1	CÓUNTERFLASHING SYSTEM. INCLUDE SPLICE PLATE AT EACH JOINT. PREFINISHED METAL EDGE FASCIA. SNAP-ON OVER METAL CLEAT SECURED TO SUBSTRATE, INCLUDING EXPANSION CLOSURE AT EACH JOINT. REFER TO "SMACNA DETAIL 3.4 SERIES.
84413-1	THERMALLY BROKEN ALUMINUM CURTAINWALL SYSTEM. BASIS OF DESIGN - "KAWNEER 1600 WALL SYSTEM". SEE FRAME ELEVATIONS FOR GLASS TYPES.

SOUTH FACADE @ SUNK-IN ROOF SCALE: 1/2" = 1'-0"



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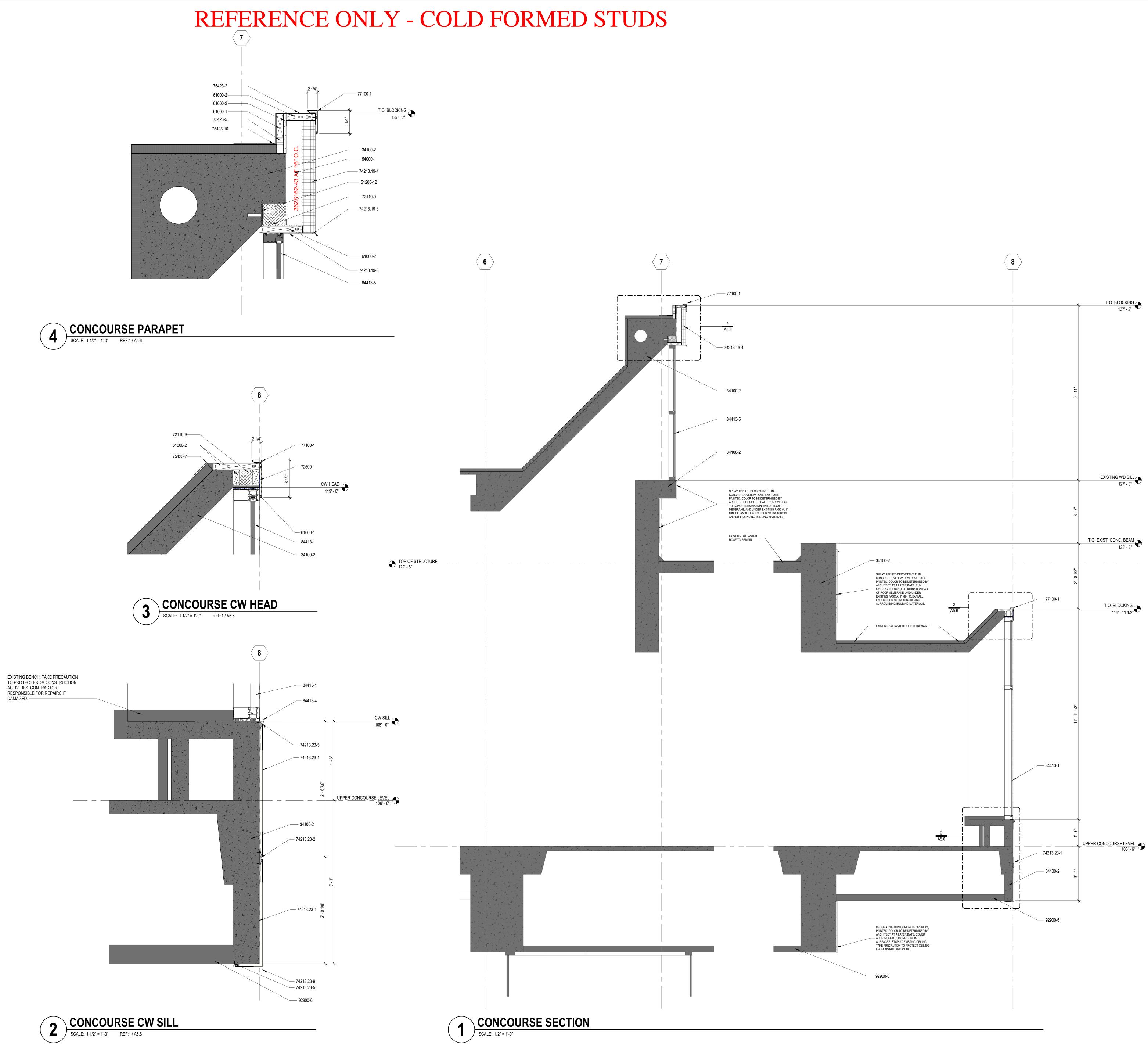
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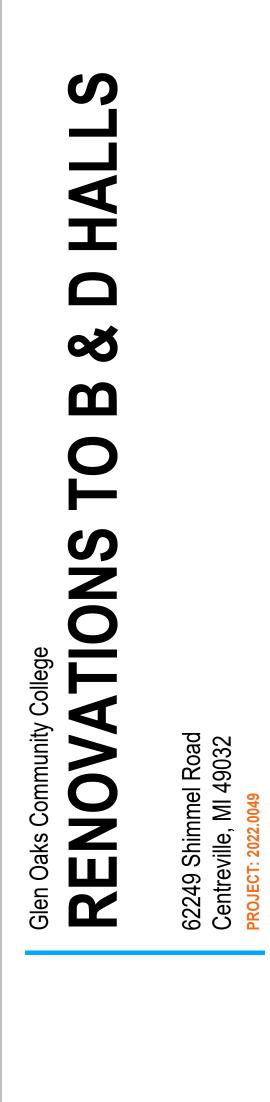
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	WALL SECTION KEYNOTES
34100-2	EXISTING PRECAST STRUCTURAL CONCRETE BUILDING SUPPORT SYSTEM TO REMAIN.
51200-12	1/4"x6"x9" GALVANIZED BENT PLATE WITH 1/2" DIA. HILTI HAS-V-36 RODS AT 8" O.C. WITH HILTI HY270 ADHESIVE.
54000-1	3-5/8" METAL STUDS. SEE SPECIFICATIONS.
61000-1	2x WOOD BLOCKING. SECURE TO SUBSTATE.
61000-2	2x WOOD BLOCKING, TREATED. SECURE TO SUBSTRATE WITH STAINLESS STEEL FASTENERS.
61600-1	1/2" PLYWOOD SHEATHING, EXTERIOR GRADE
61600-2	5/8" PLYWOOD SHEATHING, EXTERIOR GRADE
72119-9	SPRAY APPLIED CLOSED CELL POLYURETHANE FOAM INSULATION AT - R-38 MIN.
72500-1	WEATHER BARRIER MEMBRANE SYSTEM COMPLETE, EQUAL TO "DUPONT TYVEK COMMERCIAL WRAP".
74213.19-4	3" PREFINISHED HORIZONTAL INSULATED METAL PANEL SYSTEM (PANEL 2). BASIS OF DESIGN METL-SPAN. COLOR TO BE CHARCOAL GRAY. SEE ELEVATIONS FOR LOCATIONS. SEE SPECIFICATIONS FOR SPECIFIC SYSTEM REQUIRED.
74213.19-6	PREFINISHED METAL SILL FLASHING TO MATCH METAL PANEL SYSTEM
74213.19-8	PREFINISHED METAL CLOSURE PIECE TO MATCH METAL PANEL SYSTEM
74213.23-1	PREFINISHED METAL COMPOSITE WALL PANEL SYSTEM EQUAL TO CITADEL ENVELOPE 2000 RV (COLOR 1 - CHARCOAL GREY TO MATCH IMP). METAL PANEL INSTALLER RESPONSIBLE FOR PROVIDING SHIMS AND FURRING AS NEEDED TO PROVIDE A PLUMB FINISH OF PANELS.
74213.23-2	1/2" METAL PANEL REVEAL
74213.23-5	PREFINISHED METAL CLOSURE PIECE TO MATCH M. PNL. SYSTEM
74213.23-9	PREFINISHED METAL COMPOSITE WALL PANEL BENT OUTSIDE CORNER.
75423-2	SINGLE PLY MEMBRANE FLASHING. RUN UP UNDER COPING AND DOWN FACE 2 MIN. AND ONTO ROOF MEMBRANE 4" MIN. SEE SPECIFICATIONS FOR ATTACHMENT METHOD.
75423-5	1-1/2" POLYISOCYANURATE INSULATION BOARD (R=9) FOR ALL INSIDE FACE PARAPET WALL CONDITIONS ABOVE ROOF LINE. ADHERE POLYISO BOARD TO EXTERIOR GRADE SHEATHING. TEMPORARILY SECURE WITH FASTENERS.
75423-10	RUSS STRIP. MECHANICALLY FASTEN THROUGH INSULATION INTO SUBSTRATE.
77100-1	PREFINISHED METAL EDGE FASCIA. SNAP-ON OVER METAL CLEAT SECURED TO SUBSTRATE, INCLUDING EXPANSION CLOSURE AT EACH JOINT. REFER TO "SMACNA DETAIL 3.4 SERIES.
84413-1	THERMALLY BROKEN ALUMINUM CURTAINWALL SYSTEM. BASIS OF DESIGN - "KAWNEER 1600 WALL SYSTEM". SEE FRAME ELEVATIONS FOR GLASS TYPES.
84413-4	0.050" CONTINUOUS ALUMINUM WINDOW SILL TRIM FLASHING WITH HEMMED EDGE. TURN VERTICAL LEG TRIM UP BEHIND CURTAIN WALL PRESSURE PLATE. SEAL ALL LAP UNITS WATER TIGHT.
84413-5	EXISTING CURTAIN WALL SYSTEM TO REMAIN.
92900-6	EXISTING EXTERIOR CEILING COMPOSITE TO REMAIN. TAKE PRECAUTION TO PROTECT DURING CONSTRUCTION. SURFACE TO BE PREPARED TO RECEIVE NEW PAINT. PAINT COLOR TO BE DETEREMINED AT A LATER DATE BY ARCHITECT.



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	FINISH LEGEND	GENERAL ROOM FINISH NOTES
	CEILING TILE	1. SEE "GENERAL" SHEETS IN THE FRONT OF THE WORKING DRAWING SE FOR DEFINITION OF ABBREVIATIONS.
ACT-1	ARMSTRONG, CORTEGA, ITEM NO.:770, SIZE: 24" X 24" X 5/8", EDGE: SQUARE, COLOR: WHITE	2. THE SCHEDULED MATERIALS AND FINISHES SHALL NOT BE ORDERED O
ACOUSTIC V	WALL PANEL	INSTALLED BEFORE THE CONTRACTOR'S ACTUAL COLOR SAMPLE
AWP-1	CARNEGIE, XOREL PANEL, SHAPE: PLANK, SIZE: SMALL, 5" X 20", SUBSTRATE: QUIET-CORE, EDGE: BEVEL, FABRIC: LINEN 6291 S, INSTALL: QUICK GRAB WALL MOUNTED	SUBMITTALS HAVE BEEN APPROVED AS CALLED FOR ON THE DRAWING AND IN THE SPECIFICATIONS.           3.         ALL FLOOR FINISH TRANSITIONS TO OCCUR IN THE MIDDLE OF DOOR
AWP-2	CARNEGIE, XOREL PANEL, SHAPE: PLANK, SIZE: SMALL, 5" X 20", SUBSTRATE: QUIET-CORE, EDGE: BEVEL, FABRIC: SAHARA MATTE 6089 629, INSTALL: QUICK GRAB WALL MOUNTED	<ul> <li>FRAME, UNLESS NOTED OTHERWISE ON FLOOR FINISH PLAN.</li> <li>PROVIDE JOHNSONITE SLIMLINE RUBBER TRANSITIONS STRIP</li> </ul>
WP-3	CARNEGIE, XOREL PANEL, SHAPE: PLANK, SIZE: SMALL, 5" X 20", SUBSTRATE: QUIET-CORE, EDGE: BEVEL, FABRIC: METEOR 6427 2018, INSTALL: QUICK GRAB WALL MOUNTED	WHEREVER DIFFERING FLOOR MATERIALS MEET, UNLESS NOTED OTHERWISE.
WP-4	CARNEGIE, XOREL PANEL, SHAPE: PLANK, SIZE: LARGE, 10" X 20", SUBSTRATE: QUIET-CORE, EDGE: BEVEL, FABRIC: LINEN 6291 S, INSTALL: QUICK GRAB WALL MOUNTED	5. ALL HOLLOW METAL DOOR FRAMES AND WINDOWS FRAMES TO BE PAINTED PNT-6 WITH ZERO VOC ACRYLIC BASED PAINT WITH A
WP-5	CARNEGIE, XOREL PANEL, SHAPE: PLANK, SIZE: LARGE, 10" X 20", SUBSTRATE: QUIET-CORE, EDGE: BEVEL, FABRIC: SAHARA MATTE 6089 629, INSTALL: QUICK GRAB WALL MOUNTED	SEMI-GLOSS FINISH.           6.         BASIS OF DESIGN, ALL SOLID WOOD DOORS TO BE MASONITE DOOR
CARPET		SYSTEMS, SPECIES: MATCH EXISTING, CUT: MATCH EXISTING, STAIN: MATCH EXISTING
CPT-1	MOHAWK, COLLECTION: NUTOPIA MATRIX, STYLE: URBAN TERRAIN GT413, COLOR: FUSION 969, SIZE: 12" X 36", INSTALL: STAGGER	7. REFER TO A10 SERIES FOR ADDITIONAL WALL FINISH INFORMATION
CPT-2	SHAW, COLLECTION: COLOR AT WORK II, STYLE: SATURATE 5T109, COLOR: VIRIDIAN 07396, SIZE: 9" X 36, INSTALL: STAGGER	8. BOTTOM OF ALL GYP. BOARD CEILING TO BE PAINTED PNT-5 WITH FLAT
CPT-3	SHAW, COLLECTION: IN SYNC, STYLE: COMPANION TILE 5T352, COLOR: FUSE 52515, SIZE: 24" X 24", INSTALL: QUARTER-TURN	FINISH, UNLESS NOTED OTHERWISE ON REFLECTED CEILING PLAN
CPT-4	SHAW, COLLECTION: COLOR FRAME AND COLOR FORM, STYLE: COLOR FRAME TILE 5T081, COLOR: DISAPPEAR 81557, INSTALL:	9. FACE OF ALL BULKHEADS TO BE PAINTED PNT-5, UNLESS NOTED OTHERWISE ON REFLECTED CEILING PLAN
	MONOLITHIC	10. ALL TOILET PARTITIONS TO BE COLOR-THRU PHENOLIC.
		10.     ALL TOILET PARTITIONS TO BE COLOR-THRU PHENOLIC.       11.     REFER TO FLOOR FINISH PLAN FOR FLOORING INSTALL DIRECTION
CERAMIC W CWT-1	DALTILE, COLLECTION, MIRAMO, STYLE: PICKET, COLOR: OYSTER MR45, SIZE: 2" X 5", MESH MOUNTED, GROUT: MAPEI, COLOR: 09	12. ALL CASEWORK HARDWARE TO BE WIRE PULL UNLESS NOTED OTHERWISE.
CWT-2	GRAY, UNSANDED DALTILE, COLLECTION: SADDLE BROOK, COLOR: GRAVEL ROAD SD16, SIZE: 6" X 36", INSTALL: STAGGER, GROUT: MAPEI, COLOR: 09 GRAY, UNSANDED	13. PROVIDE SCHLUTER JOLLY TRIM PIECE WITH EB FINISH AT ALL EXPOSE TILE EDGES
CWT-3	GRAY, UNSANDED DALTILE, COLLECTION: CONCRETE MASONRY, COLOR: ARTISAN GREY P036, SIZE: 16" X 32", INSTALL: 33% OFFSET, GROUT: MAPEI, COLOR: 107 IRON, UNSANDED	14 PROVIDE SWF CONTRACT MANUAL ROLLER SHADES ON WINDOWS NOTED ON PLANS, SHADE FABRIC: SHEAR WEAVE 2701
CWT-4	BASIS OF DESIGN: OTTIMO CERAMICS, STYLE: DASH, COLOR: TBD, SIZE: 16" X 48", INSTALL: VERTICAL STACKED, GROUT: MAPEI, COLOR: TBD, UNSANDED	15 FLOORING DIRECTION INDICATED ON PLANS.
CORNER GL		
CG-1 CG-2	INPRO, 150D HIGH IMPACT END WALL PROTECTOR, 8' H, MOUNTED TOP OF BASE, COLOR: DOVE GRAY 0106 INPRO, 150 HIGH IMPACT CORNER GUARD, 8'H, MOUNTED TOP OF BASE, COLOR: DOVE GRAY 0106	
LUXURY VIN LVT-1		
LVT-2	PATCRAFT, COLLECTION: LINOCUT I560V, COLOR: CHISEL 00550, SIZE: 9" X 36", INSTALL: STAGGER	
_V1-2	SHAW, COLLECTION: COMPOUND + CAST, STYLE: COMPOUND 5.0 4077V, COLOR: PATINA 77405, SIZE: 24" X 24", INSTALL: QUARTER-TURN	FINISH COMMENTS
PAINT		1. NO FINISH WORK.
PNT-1	SHERWIN WILLIAMS, COLOR: SW7650 ELLIE GRAY, FINISH: EGGSHELL	2. RUBBER BASE TO BE INSTALLED ON NEW WALL TO MATCH EXISTING.
PNT-2	SHERWIN WILLIAMS, COLOR: GLEN OAKS BONE WHITE, FINISH: EGGSHELL	3 CERAMIC TILE TO BE INSTALLED FLOOR TO CEILING, NO RUBBER BASE
PNT-3	GLEN OAKS GREEN, PANTONE# 1235C, FINISH: EGGSHELL	TO BE INSTALLED ON WALL.
PNT-4	GLEN OAKS YELLOW, PANTONE# 7484C, FINISH: EGGSHELL	4 CPT-4 TO BE INSTALLED AS NEEDED WHERE NEW WINDOWS HAVE BEEN
	SHERWIN WILLIAMS, COLOR: SW7005 PURE WHITE, FINISH: FLAT	
PNT-5		5 FINISH WORK SHOWN ON A10.3.
	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS	
		6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.
PNT-6	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS	<ul><li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li><li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li></ul>
PNT-6 PLASTIC LAI PL-1	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1</li> </ul>
PNT-6 PLASTIC LAI PL-1	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-5 PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU PC-1 RUBBER	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CL PC-1 RUBBER	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU PC-1 RUBBER RB-1	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE TARKETT, TRADITIONAL 4" BASE, COLOR: 20 CHARCOAL LOORING	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU PC-1 RUBBER RB-1 RUBBER FLO	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE TARKETT, TRADITIONAL 4" BASE, COLOR: 20 CHARCOAL	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CL PC-1 RUBBER RB-1 RUBBER FLG RF-1	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS  MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE  URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE TARKETT, TRADITIONAL 4" BASE, COLOR: 20 CHARCOAL  OORING THOR RUBBER FLOORING, STYLE: RESI24, COLOR: TBD, 48" WIDE ROLLED GOODS	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU PC-1 RUBBER RB-1 RUBBER FLG RF-1	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS  MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE  URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE TARKETT, TRADITIONAL 4" BASE, COLOR: 20 CHARCOAL  OORING THOR RUBBER FLOORING, STYLE: RESI24, COLOR: TBD, 48" WIDE ROLLED GOODS	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CU PC-1 RUBBER RB-1 RUBBER FLG RF-1 SEALED CO SC-1 SHEET VINY	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE TARKETT, TRADITIONAL 4" BASE, COLOR: 20 CHARCOAL OORING THOR RUBBER FLOORING, STYLE: RESI24, COLOR: TBD, 48" WIDE ROLLED GOODS DNCRETE SHERWIN WILLIAMS, ARMORSEAL 1K, WATER-BASED URETHANE FLOOR ENAMEL, FINISH: CLEAR B65C775 YL	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
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PNT-6 PLASTIC LAI PL-1 PL-2 PL-3 PRIVACY CL PC-1 RUBBER RB-1 RUBBER FLG RF-1 SEALED COI SC-1 SHEET VINY SV-1 SOLID SURF	PPG, COLOR: 1009-6, FINISH: SEMI-GLOSS MINATE FORMICA, COLOR: 5787-NG TAUPE WALNUT, FINISH: NATURAL GRAIN ARBORITE, COLOR: P407 MONOLITH, FINISH: VL PIONITE, COLOR: AG801SD JUMPING IN PUDDLES, FINISH: TEXTURED/SUEDE URTAIN INPRO, STYLE: FRAMEWORK, COLOR: PLATINUM, 64" LONG WITH 20" LONG SNOW MESH CURTAIN HEADING ABOVE TARKETT, TRADITIONAL 4" BASE, COLOR: 20 CHARCOAL OORING THOR RUBBER FLOORING, STYLE: RESI24, COLOR: TBD, 48" WIDE ROLLED GOODS NOCRETE SHERWIN WILLIAMS, ARMORSEAL 1K, WATER-BASED URETHANE FLOOR ENAMEL, FINISH: CLEAR B65C775 YL MANNINGTON, COLLECTION: PARADIGM II, STYLE: FLOW, COLOR: PURPOSE PD316	<ul> <li>6 AWP SHOWN ON A10.2 TO INCLUDED IN ALTERNATE #3.</li> <li>7 ALTERNATE #2A CEILING TO BE ACT-1.</li> <li>8 WORK SHOWN IN FINISH SCHEDULE TO BE INCLUDED IN ALTERNATE #1.</li> <li>9 ALTERNATE #2B CEILING TO BE WDC-1.</li> </ul>
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			FINISH SCHEI	DULE - 01 M	AIN FLOOR				
	ROOM			WALLS					
#	NAME	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	CEILING	COMMENTS
B124	VESTIBULE	WOM-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B125	LOBBY	LVT-1, LVT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B126	LOCKER ROOM CORRIDOR	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B127	MEN	LVT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	ACT-1	3
B128	WOMEN	LVT-1	CWT-2	CWT-2	CWT-2	CWT-2	CWT-2	ACT-1	3
B129	M LOCKER ROOM	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	-
B129A	TOILETS	EP-1	EP-1	CWT-3	CWT-3	CWT-3	CWT-3	ACT-1	3
B129B	STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	-
B130	W LOCKER ROOM	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B130A	TOILETS	EP-1	EP-1	CWT-3	CWT-3	CWT-3	CWT-3	ACT-1	3
B130B	STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B131	M LOCKER ROOM (VISITOR)	EP-1	EP-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B131A	TOILETS	EP-1	EP-1	CWT-3	CWT-3	CWT-3	CWT-3	ACT-1	3
B132	STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B133	W LOCKER ROOM (VISITOR)	EP-1	EP-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B133A	TOILETS	EP-1	EP-1	CWT-3	CWT-3	CWT-3	CWT-3	ACT-1	3
B134C	OFFICE	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B134D	OFFICE	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B134E	OFFICE	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B135	LAUNDRY & JANITORIAL	SC-1							
B136	CORRIDOR	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B137	STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXPOSED	
B138	TRAINING	EP-1	EP-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B139	OFFICIALS	EP-1	EP-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B140	STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B140	OFFICIALS	EP-1	EP-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
B143	GYMNASIUM								5
B145	ТІСКЕТ ВООТН	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	0
D233	ATHLETICS	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
D233A	OFFICE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
D235	NORA HAGEN THEATER	CPT-1	EXIST. TO REMAIN	PNT-2	PNT-2	PNT-2	PNT-2		6, 7, 9, 10
D239	NURSING LAB 1			-					4
D242	NURSING LAB 2	<b></b>							4
D242 D245	CLASSROOM	CPT-3	RB-1	PNT-2	PNT-2	PNT-2	PNT-2	ACT-1	
D249	STORAGE	SC-1	RB-1	PNT-2	PNT-2	PNT-2	PNT-2	ACT-1	
D243 D250	CLASSROOM	CPT-3	RB-1	PNT-2	PNT-2	PNT-2	PNT-2	ACT-1	
ST-1	STAIR #1	EXIST. TO REMAIN	WD-1	CWT-4, PNT-1	CWT-4, PNT-1	CWT-4, PNT-1	CWT-4, PNT-1	ACT-1	
ST-2	STAIR #2	EXIST. TO REMAIN		CWT-4, PNT-1	CWT-4, PNT-1	CWT-4, PNT-1	CWT-4, PNT-1	ACT-1	

E ⊢ E | F С G KEY PLAN SCALE: NONE

NORTH

QUARTER-TURN

PLAIN SLICED MAPLE STAINED TO MATCH EXISTING WOOD

WDC-1 ARMSTRONG, WOODWORKS LINEAR VENEERED PLANKS, ITEM NO.: 6460W1, SIZE: 5-1/4" X 96" X 3/4", FINISH: TBD

WOOD

WOOD CEILING

WD-1



DRAWING SE BE ORDERED OF R SAMPLE I THE DRAWINGS LE OF DOOR

FORMATION NT-5 WITH FLAT ILING PLAN SS NOTED

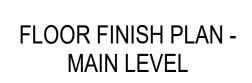
T ALL EXPOSE WINDOWS

H EXISTING. RUBBER BASE OWS HAVE BEEN

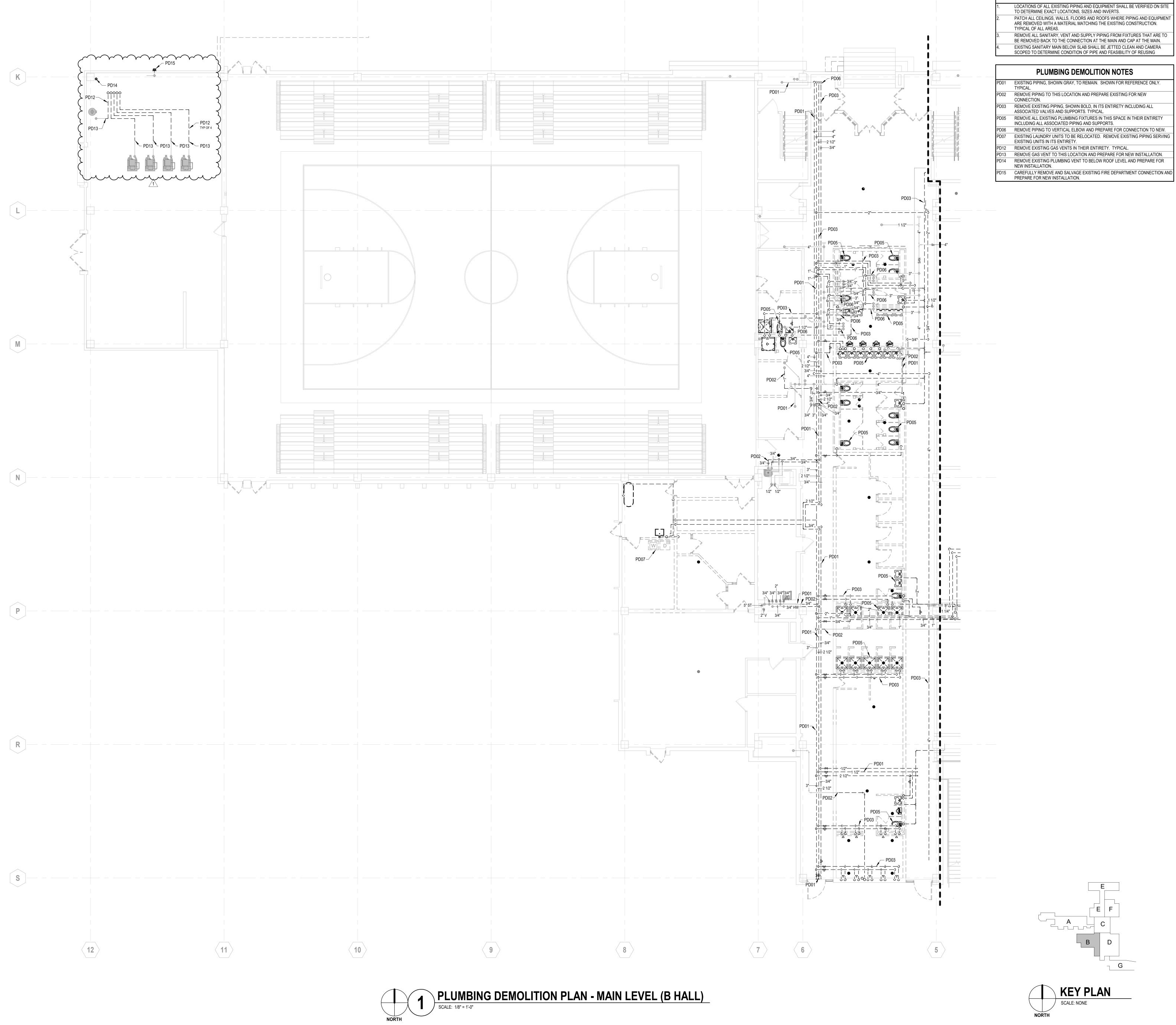
ALTERNATE #1. SING.







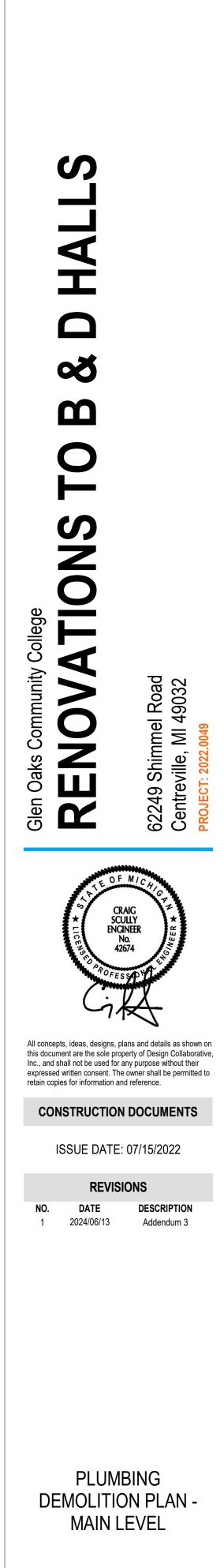
A11.1b



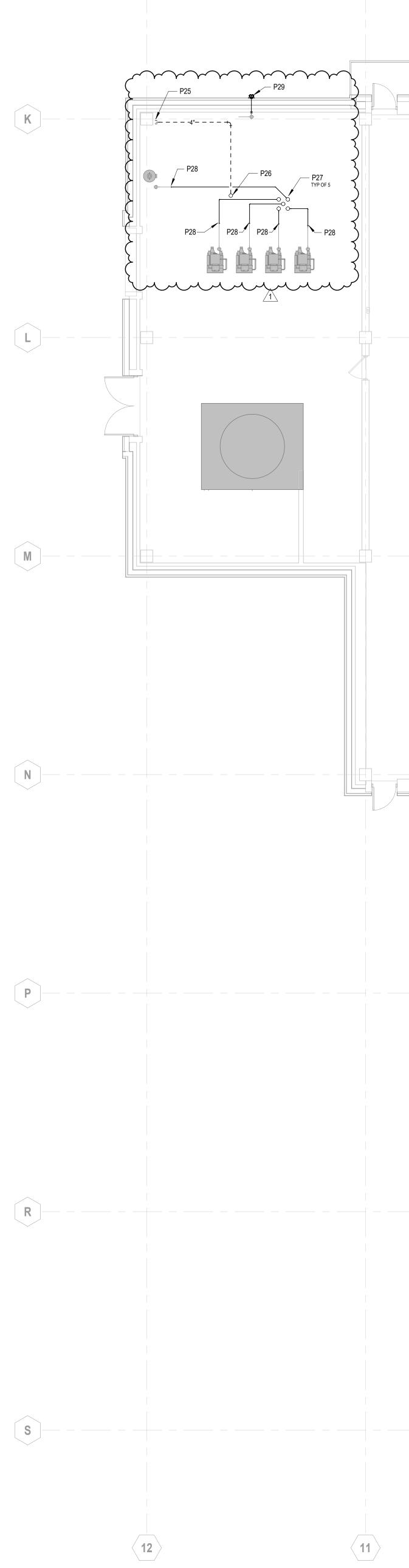
## GENERAL PLUMBING DEMOLITION NOTES



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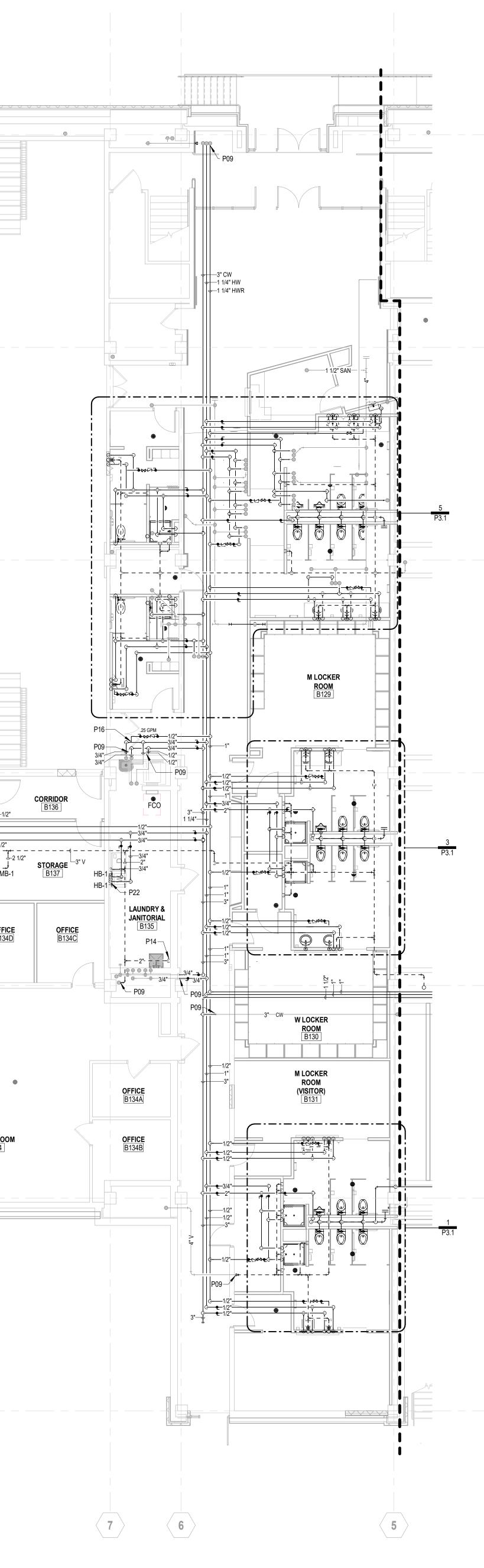






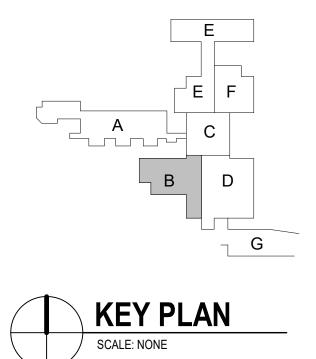
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NORTH

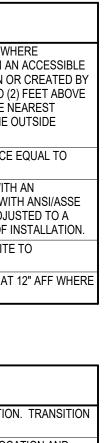


## GENERAL PLUMBING NOTES DEAD ENDS SHALL BE AVOIDED IN A DRAINAGE SYSTEM, EXCEPT WHERE NECESSARY TO EXTEND THE SYSTEM TO INSTALL A CLEANOUT IN AN ACCESSIBLE LOCATION. THE DEAD ENDS INTENDED FOR FUTURE CONNECTION OR CREATED BY REMOVAL OR ABANDONMENT OF PIPE; WHICH IS MORE THAN TWO (2) FEET ABOVE A FLOOR OR MORE THAN TEN (10) FEET HORIZONTALLY FROM THE NEAREST VENTED CONNECTION MUST HAVE A VENTED CONNECTION TO THE OUTSIDE ATMOSPHERE. ALL FLOOR DRAINS SHALL BE INSTALLED WITH A TRAP SEAL DEVICE EQUAL TO ZURN MODEL Z1072. ALL LAVATORY FAUCETS FOR PUBLIC USE SHALL BE PROVIDED WITH AN AUTOMATIC SAFETY WATER-MIXING DEVICE AND SHALL COMPLY WITH ANSI/ASSE 1016-1996 OR 1017-1998. THE SAFETY-MIXING DEVICE SHALL BE ADJUSTED TO A MAXIMUM SETTING OF 110 DEGREES FAHRENHEIT, AT THE TIME OF INSTALLATION. PIPING LOCATIONS, INVERTS AND SIZES SHALL BE VERIFIED ON SITE TO DETERMINE EXACT LOCATION AND SIZE. PROVIDE WALL CLEANOUTS ON ALL SANITARY AND STORM LINES AT 12" AFF WHERE THEY ROUTE TO BELOW THE SLAB. PLUMBING NOTES CONNECT NEW PIPING TO EXISTING IN THIS APPROXIMATE LOCATION. TRANSITION AS REQUIRED TO MAKE CONNECTION. P14 ROUTE VENT PIPING DOWN BELOW SLAB IN THIS APPROXIMATE LOCATION AND

F 14	CONNECT TO SANITARY. REFER TO SHEET P1.0B, PLUMBIN PLAN - UNDERGRO (B HALL), FOR CONTINUATION.
P16	DOMESTIC HOT WATER RETURN LINE TO CONNECT INTO DOMESTIC HOT WAT LINE AT THIS APPROXIMATE LOCATION. HOT WATER BALANCING VALVE IS TO SET TO GPM SHOWN ON PLANS.
P22	ROUTE NEW PIPING TO SERVE RELOCATED LAUNDRY UNIT ALONG WALL. TERMINATE DOMESTIC WATER PIPING WITH HOSE BIBB ON EACH PIPE AT 40" / CONTRACTOR SHALL MAKE FINAL HOSE CONNECTIONS TO UNIT. COORDINATE INSTALLATION WITH OTHER TRADES.
P25	CONNECT NEW PLUMBING VENT TO EXISTING IN THIS LOCATION.
P26	ROUTE VENT PIPING UP THROUGH ROOF IN THIS APPROXIMATE LOCATION.
P27	ROUTE GAS VENT UP THROUGH ROOF WITH PATE PIPE CURB.
P28	CONNECT NEW GAS VENT TO EXISTING IN THIS APPROXIMATE LOCATION.
P29	EXTEND FIRE PROTECTION PIPING AND REINSTALL FIRE DEPARTMENT CONNECTION.



NORTH

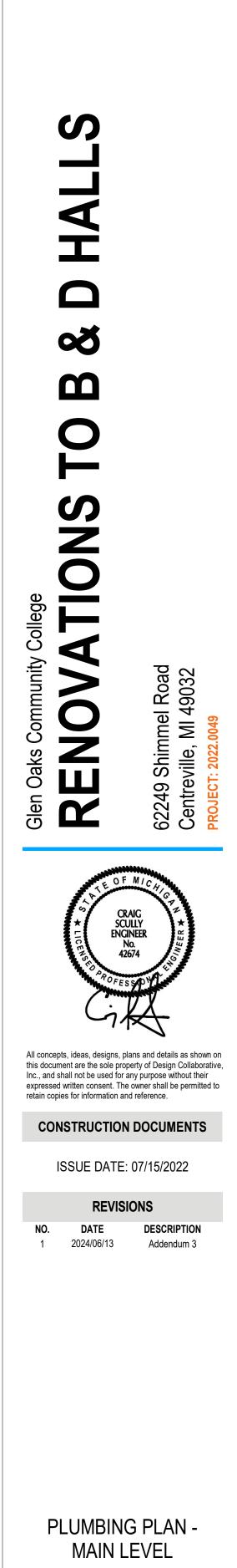


- UNDERGROUND TIC HOT WATER VALVE IS TO BE G WALL.

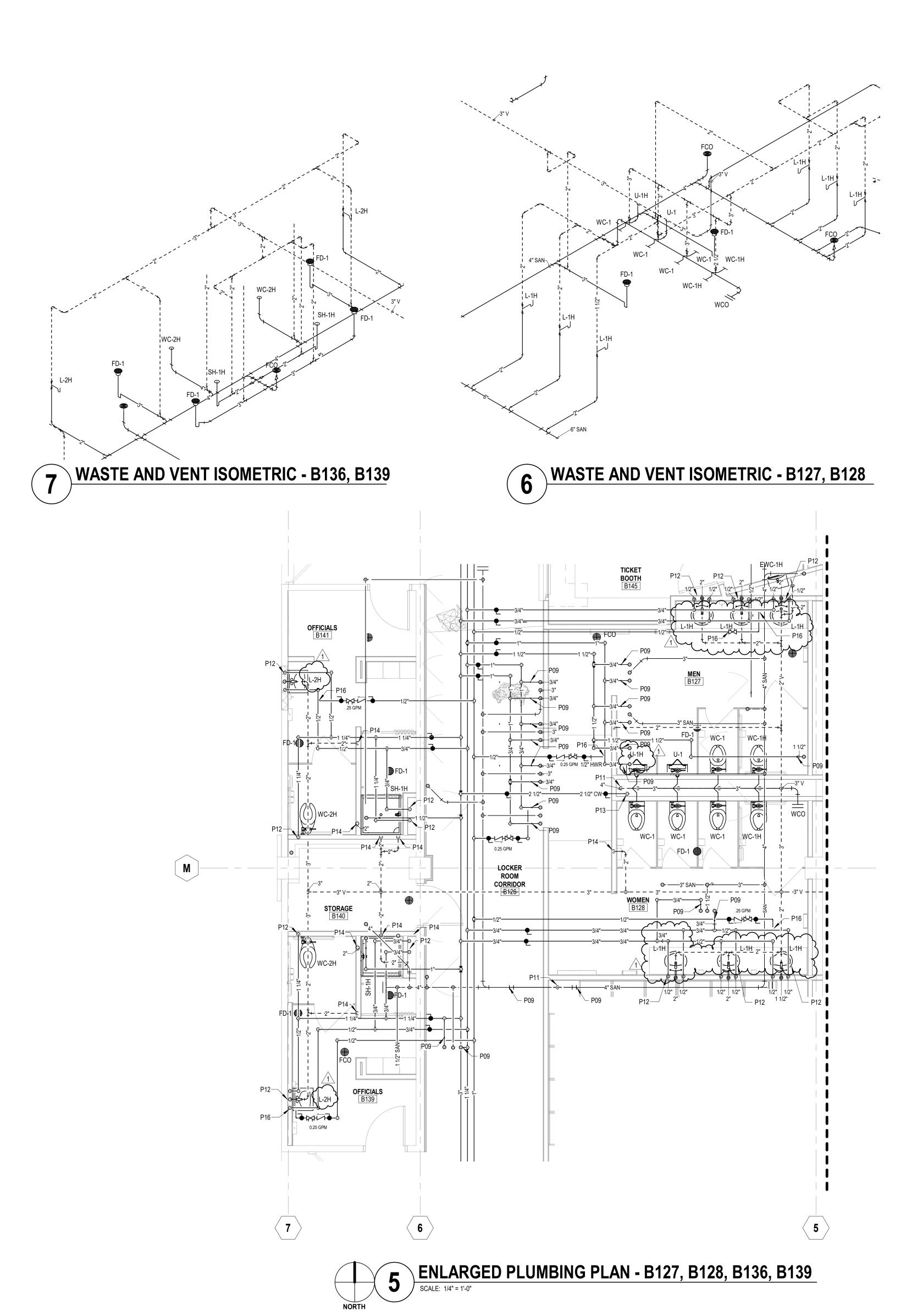
THE AT 40" A.F.F. T. COORDINATE 

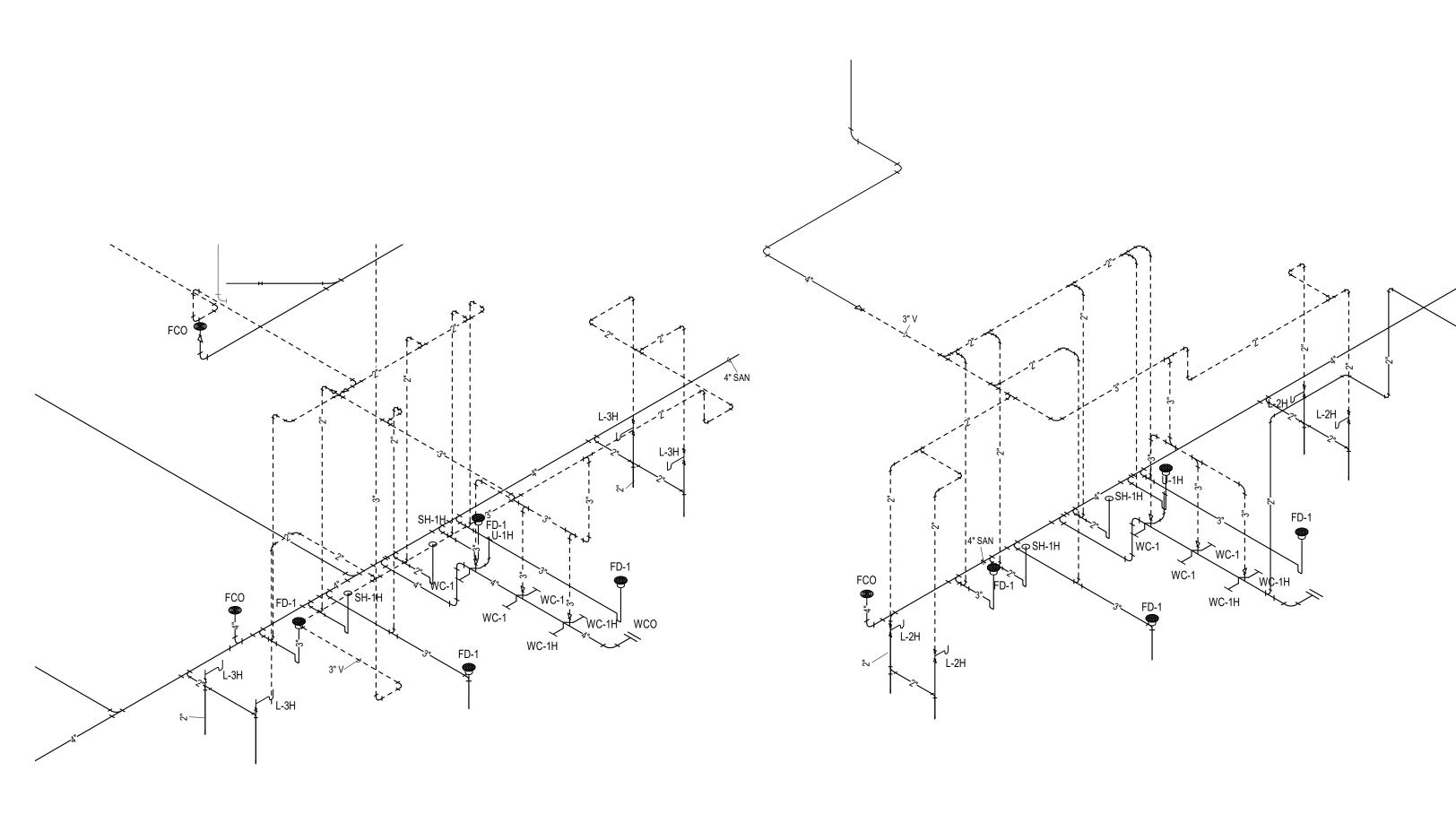


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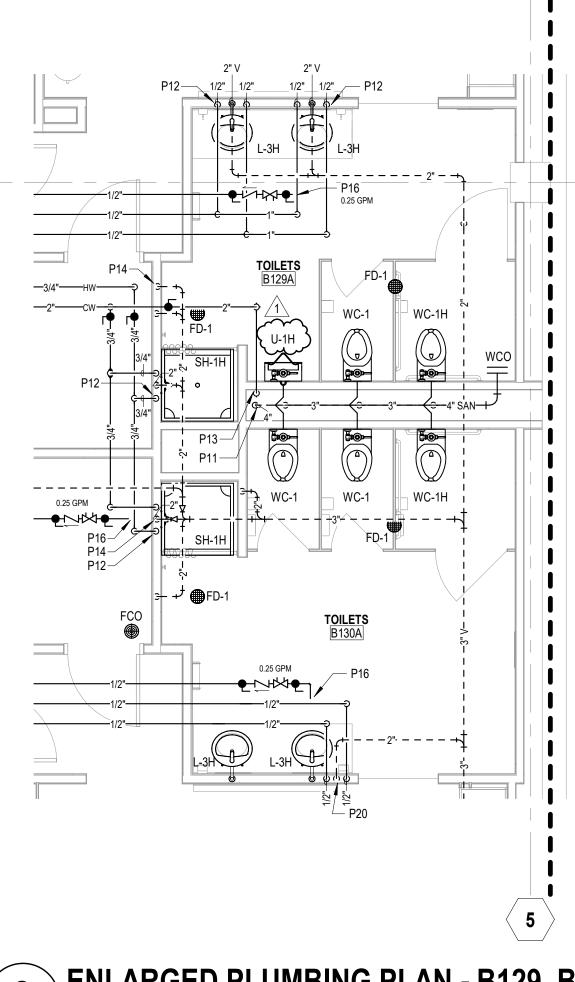
P1.1b



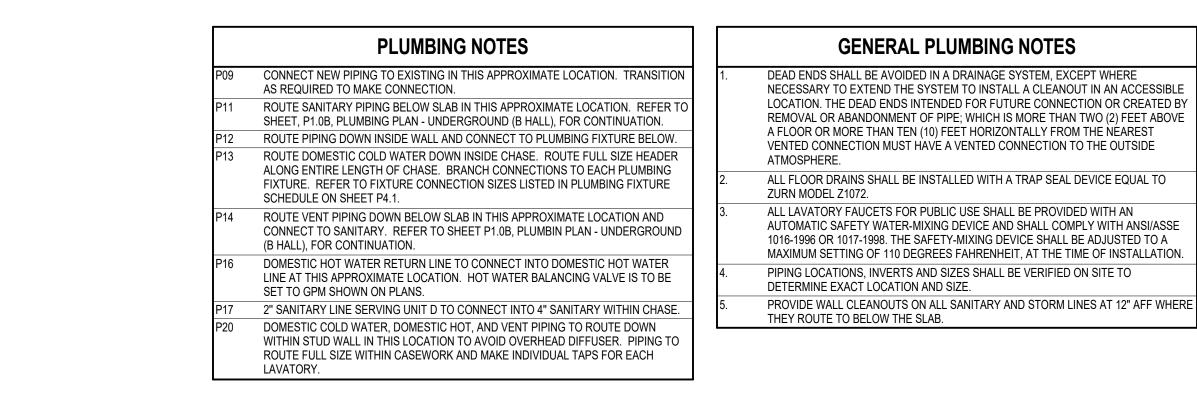




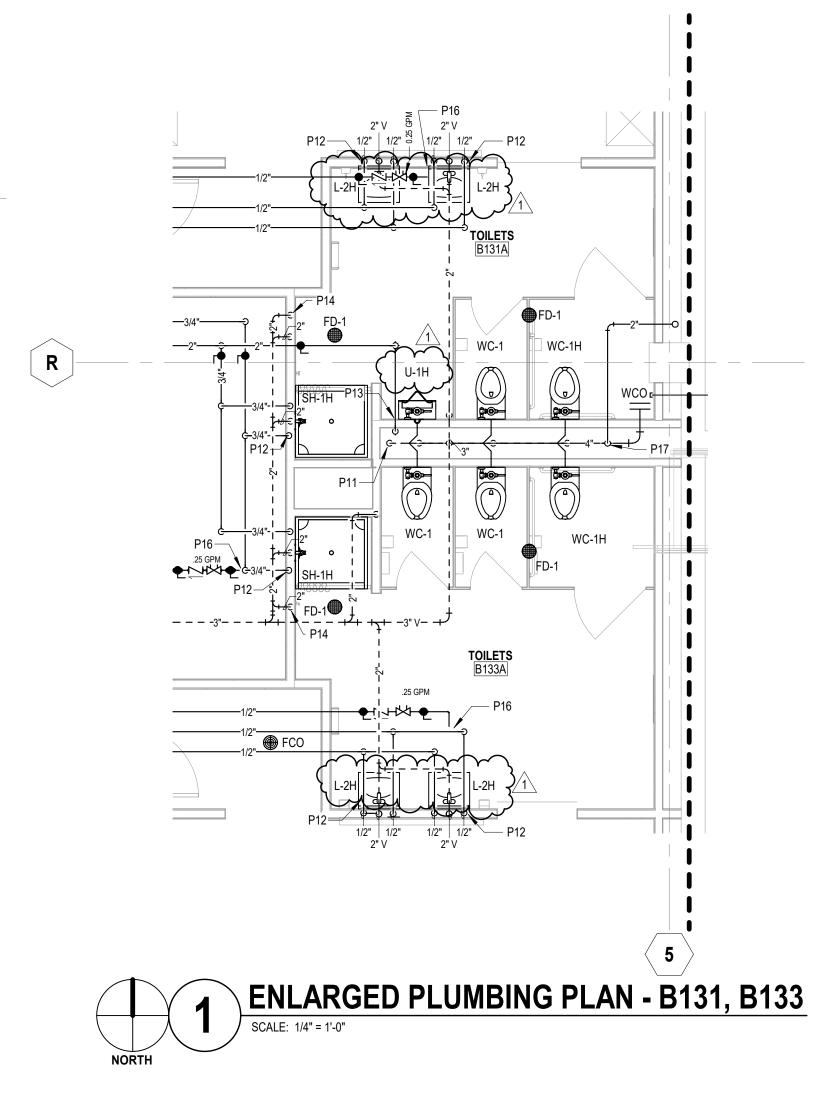
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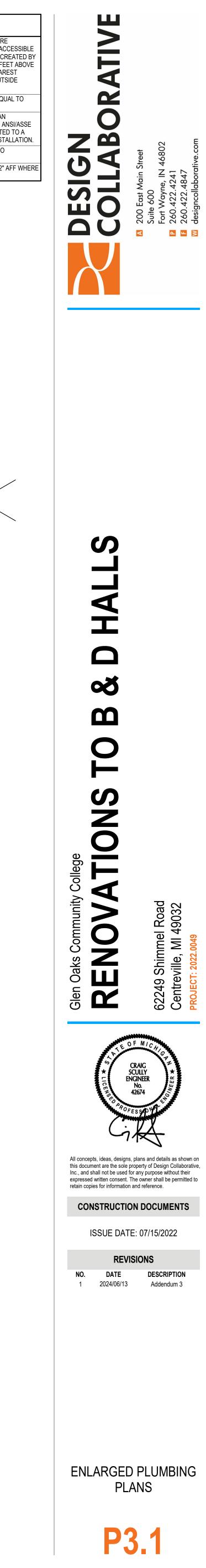


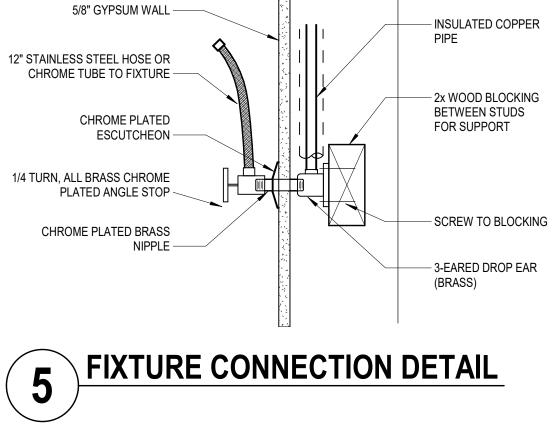


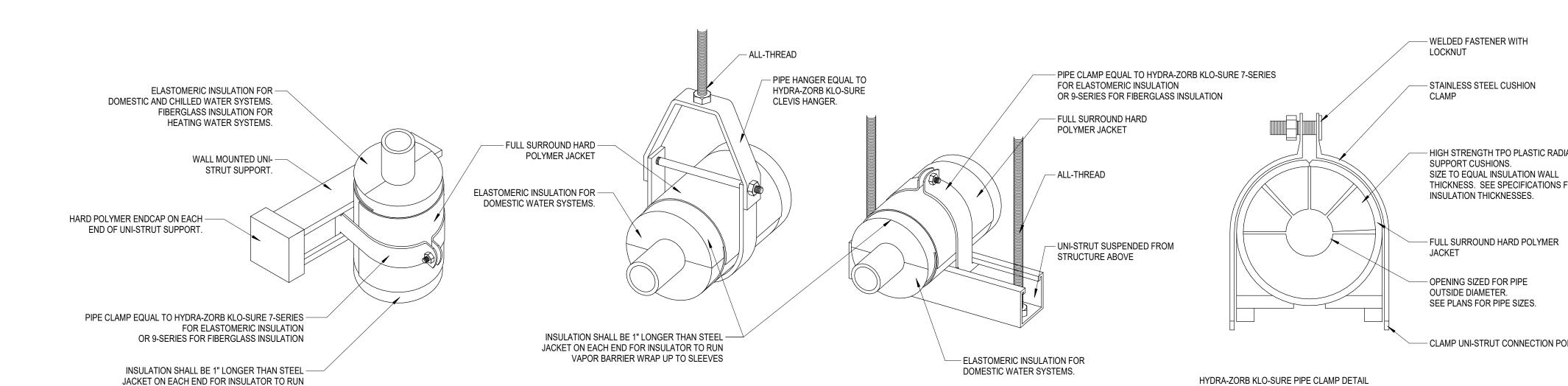


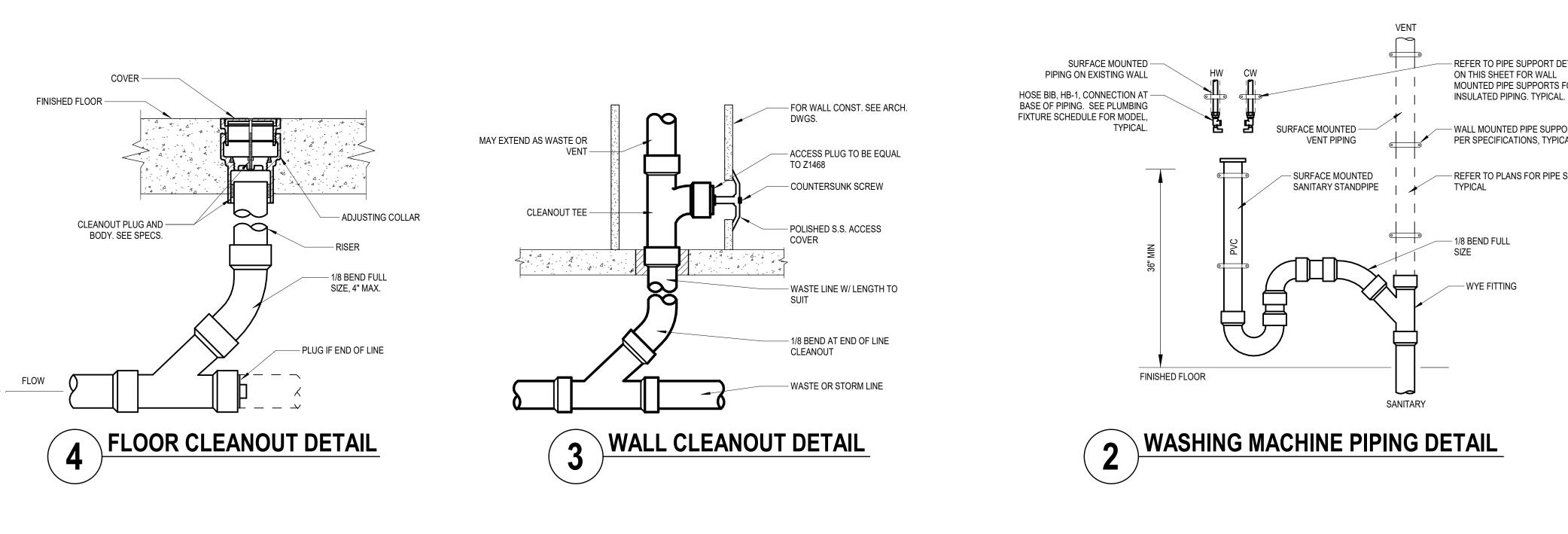
**2** WASTE AND VENT ISOMETRIC - B131, B133







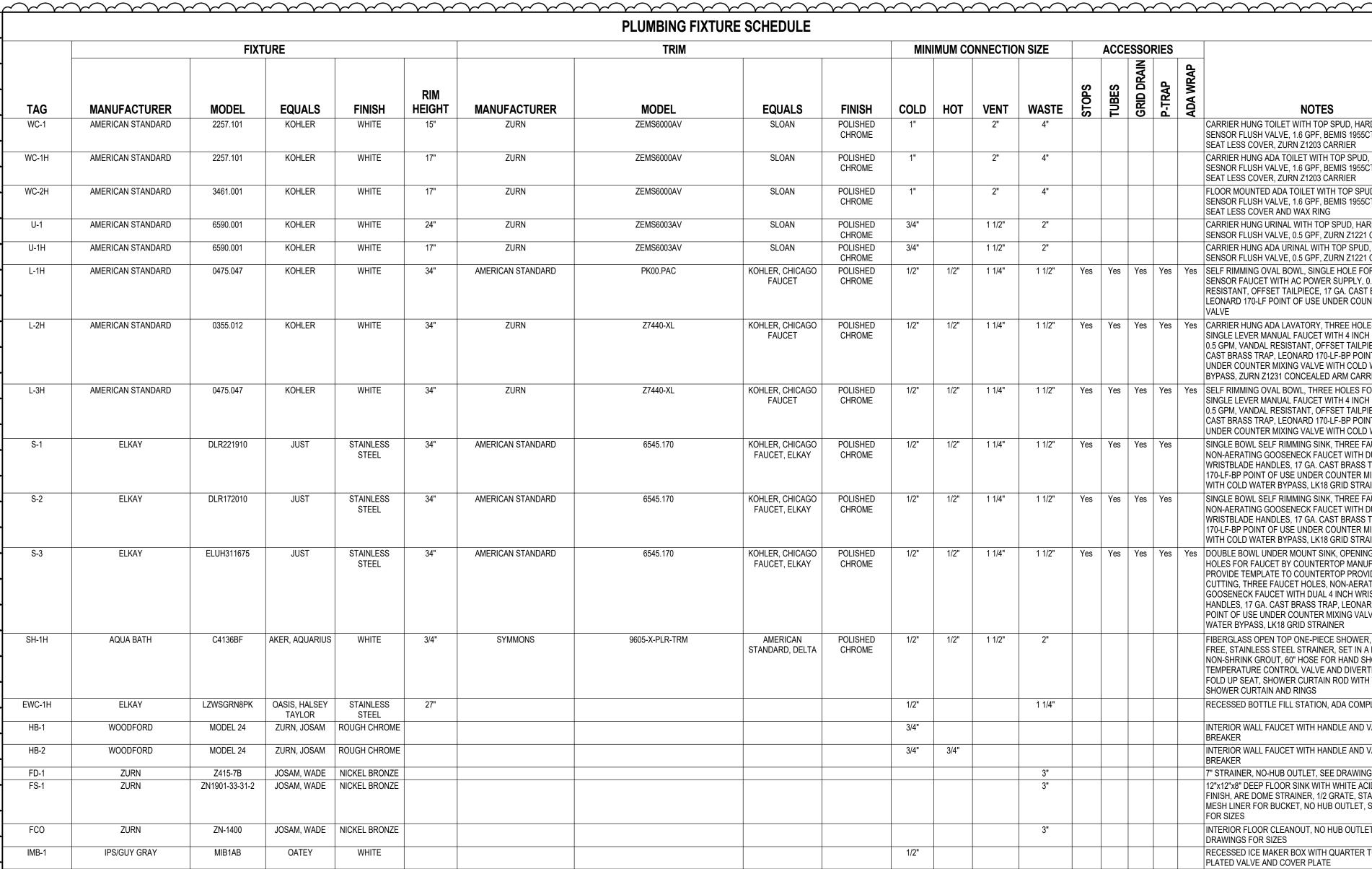




<ol> <li>USE MANUFACTURERS CURRENT COMPARISON CHARTS FOR CROSS REFERENCE FOR FIXTURE EQUALS. SUBMIT EQUALS TO ENGINEER PRIOR TO BID. SEE DRAWINGS FOR OUTLET SIZES.</li> <li>PLUMBING ACCESSORIES SHALL BE THE FOLLOWING (ACCEPTABLE MANUFACTURERS ARE: MCQUIRE, BRASSCRAFT, ZURN, KEENEY</li> <li>STOPS - CHROME PLATED BRASS ANGLE STOPS WITH 1/2" F.I.P. INLET AND 3/8" OUTLET, QUARTER TURN HANDLE, CHROME PLATED ESCHUTCHEON</li> <li>TUBES - 12" LONG BRAIDED STAINLESS STEEL HOSES</li> </ol>	<ol> <li>GRID DRAIN - POLISHED CHROME 17 GA. CAST BRASS SOLID TOP OPEN GRID STRAINER WITH TAILPIECE</li> <li>OFFSET GRID - POLISHED CHROME 17 GA. CAST BRASS SOLID TOP OPEN GRID STRAINER WITH OFFSET TAILPIECE (ADA COMPLIANT)</li> <li>P-TRAP - PVC DWV P-TRAP WITH THREADED COMPRESSION ENDS, PVC ARM, AND ESCHUTCHEON AT WALL</li> <li>ADA WRAP - WHITE POLYOLEFIN WRAP FOR SUPPLY TUBES, STOPS, TAILPIECE, TRAP AND ARM</li> </ol>
	VENT

VAPOR BARRIER WRAP UP TO SLEEVES

$\Lambda$			EIV.				
∖			FIX	TURE			
$\left\{ \right\}$	740		MODEL	FOUND		RIM	
Я	TAG WC-1	AMERICAN STANDARD	2257.101	KOHLER	FINISH WHITE	HEIGHT	MAN
Υ	VVC-1	AWERICAN STANDARD	2257.101	KUNLER	VVIIIE	15	
$\langle \cdot \rangle$	WC-1H	AMERICAN STANDARD	2257.101	KOHLER	WHITE	17"	
К							
X	WC-2H	AMERICAN STANDARD	3461.001	KOHLER	WHITE	17"	
$\{$							
	U-1	AMERICAN STANDARD	6590.001	KOHLER	WHITE	24"	
Я	U-1H	AMERICAN STANDARD	6590.001	KOHLER	WHITE	17"	
X	L-1H	AMERICAN STANDARD	0475.047	KOHLER	WHITE	34"	AMERI
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Ŋ							
X	L-2H	AMERICAN STANDARD	0355.012	KOHLER	WHITE	34"	
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Ţ	0.4	FLIXAV	DI D004040	шот		0.4	
В	S-1	ELKAY	DLR221910	JUST	STAINLESS STEEL	34"	AMERI
χ							
Ł	S-2	ELKAY	DLR172010	JUST	STAINLESS	34"	AMERI
	02		DEIGHZOIO		STEEL		7
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X	S-3	ELKAY	ELUH311675	JUST	STAINLESS	34"	AMERI
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$\langle [$	SH-1H	AQUA BATH	C4136BF	AKER, AQUARIUS	WHITE	3/4"	S
К							
X							
Ł	EWC-1H	ELKAY	LZWSGRN8PK	OASIS, HALSEY	STAINLESS	27"	
Ţ	HB-1	WOODFORD	MODEL 24	TAYLOR ZURN, JOSAM	STEEL ROUGH CHROME		
В							
X	HB-2	WOODFORD	MODEL 24	ZURN, JOSAM	ROUGH CHROME		
Ş	FD-1	ZURN	Z415-7B	JOSAM, WADE	NICKEL BRONZE		
	FS-1	ZURN	ZN1901-33-31-2	JOSAM, WADE	NICKEL BRONZE		
Я							
X	FCO	ZURN	ZN-1400	JOSAM, WADE	NICKEL BRONZE		
Ş	IMB-1	IPS/GUY GRAY	MIB1AB	OATEY	WHITE		
K							

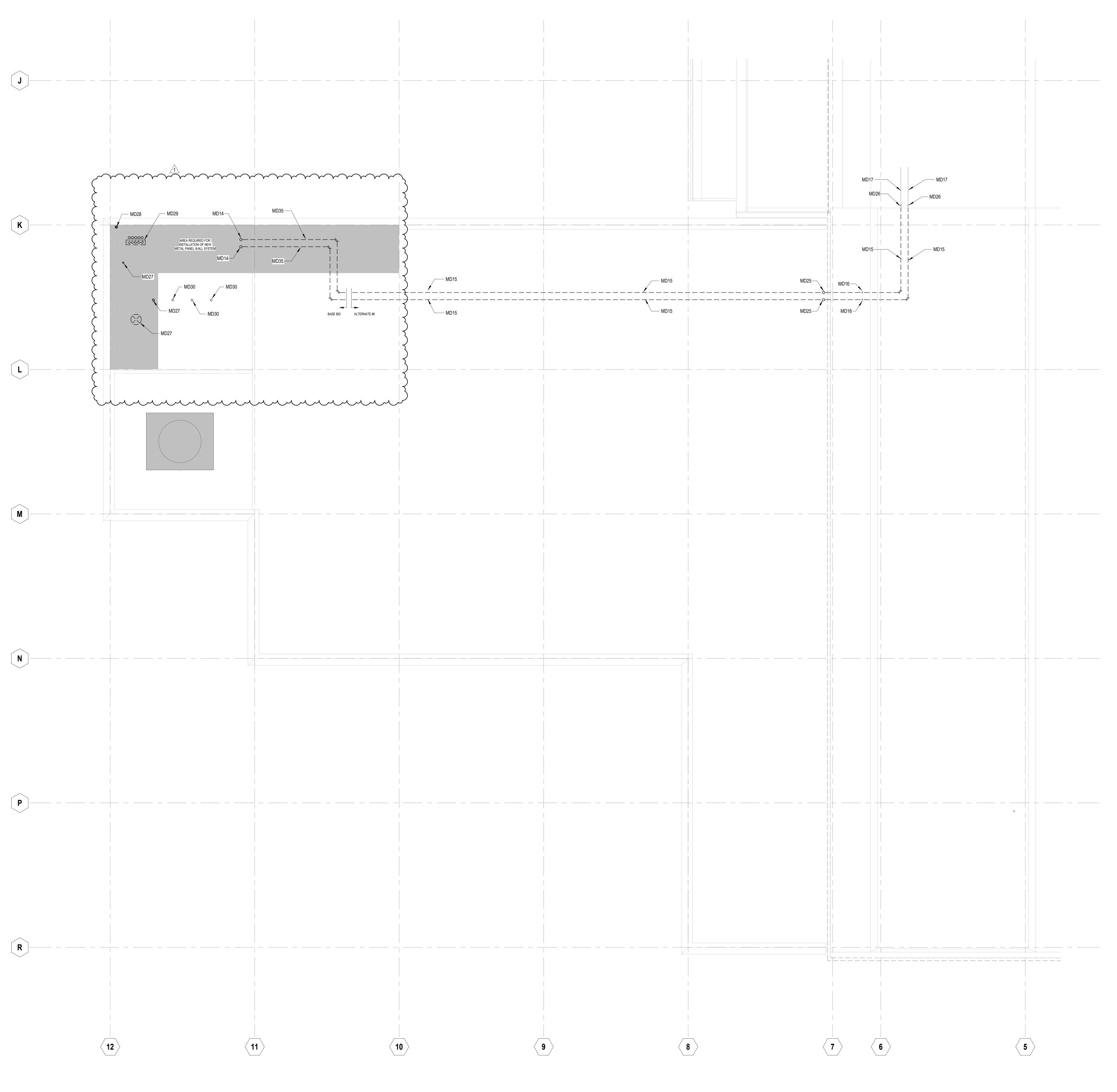


PIPE SUPPORT DETAIL

RDWIRED GCT OPEN FRONT D, HARDWIRED GCT OPEN FRONT UD, HARDWIRED CCT OPEN FRONT UD, HARDWIRED 1 CARRIER D, HARDWIRED 1 CARRIER D, HARDWIRED 1 CARRIER OR FAUCET, 0.5 GPM, VANDAL T BRASS TRAP, JNTER MIXING LES FOR FAUCET, H CENTERSET, PIECE, 17 GA. INT OF USE D WATER RIER FOR FAUCET, H CENTERSET, PIECE, 17 GA. INT OF USE D WATER BYPASS	DESIGN COLLABORATIVE	<ul> <li>200 East Main Street</li> <li>Suite 600</li> <li>Fort Wayne, IN 46802</li> <li>260.422.4241</li> <li>260.422.4847</li> <li>designcollaborative.com</li> </ul>
DUAL 4 INCH 5 TRAP, LEONARD MIXING VALVE AINER AUCET HOLES, DUAL 4 INCH 5 TRAP, LEONARD MIXING VALVE AINER NG FOR SINK AND UFACTURER, VIDER FOR HOLE ATING RISTBLADE ARD 170-LF-BP LVE WITH COLD R, BARRIER ABED OF SHOWER, ATER VALVE, H WEIGHTED IPLIANT VACUUM VACUUM VACUUM VACUUM IG FOR SIZES CID RESISTANT TAINLESS STEEL , SEE DRAWINGS ET, SEE TURN BRASS DETAIL FOR L. PORTS CAL. SIZES,	Gen Oaks Community College RENOVATIONS TO B & D HALLS	62249 Shimmel Road Centreville, MI 49032 PROJECT: 2022.0049
DIAL FOR	All concepts, ideas, designs, j	RAG No. 2674 Solution
OINT	PLUM	BING



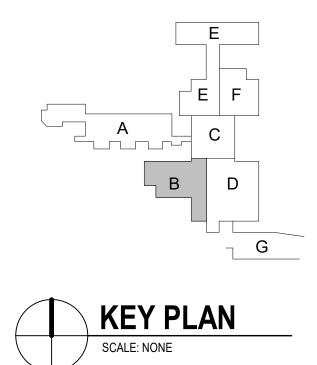
**P4.1** 



**MECHANICAL DEMOLITION PLAN - ROOF LEVEL** SCALE: 1/8" = 1'-0"

NORTH

	GENERAL MECHANICAL DEMOLITION NOTES
1.	VERIFY ALL EXACT LOCATIONS OF EXISTING DUCTS, PIPING AND EQUIPMENT AS WELL AS SIZES.
2.	PATCH ALL CEILINGS, WALLS, FLOORS AND ROOFS WHERE PIPING, EQUIPMENT AND DUCT ARE REMOVED WITH A MATERIAL MATCHING THE EXISTING CONSTRUCTION. TYPICAL OF ALL AREAS.
	MECHANICAL DEMOLITION NOTES
MD14	REMOVE EXISTING HYDRONIC PIPING TO BELOW ROOF AND PREPARE FOR NEW CONNECTION.
MD15	UNDER ALTERNATE #6, CAREFULLY REMOVE AND SALVAGE EXISTING ROOF MOUNTED HYDRONIC PIPING IN ITS ENTIRETY.
MD16	UNDER ALTERNATE #6, REMOVE EXISTING HYDRONIC BRANCH PIPING TO ROOF LINE AND PREPARE FOR NEW CONNECTION.
MD17	EXISTING ROOF MOUNTED HYDRONIC PIPING, SHOWN GRAY, TO REMAIN AND BE REUSED.
MD25	UNDER ALTERNATE #6, REMOVE EXISTING HYDRONIC PIPING ROUTED VERTICALLY UP SIDE OF BUILDING.
MD26	UNDER ALTERNATE #6, REMOVE EXISTING HYDRONIC PIPING TO VERTICAL TURN DOWN AND PREPARE FOR NEW CONNECTION.
MD27	REMOVE EXISTING DUCTWORK LOCATED WITHIN AREA REQUIRED FOR NEW METAL PANEL WALL SYSTEM INSTALLATION. COORDINATE WITH OWNER'S ROOF WARRANTY PROVIDER TO PATCH EXISTING ROOF AS REQUIRED.
MD28	REMOVE EXISTING VENT THROUGH ROOF LOCATED WITHIN AREA REQUIRED FOR NEW METAL PANEL WALL SYSTEM INSTALLATION. COORDINATE WITH OWNER'S ROOF WARRANTY PROVIDER TO PATCH EXISTING ROOF AS REQUIRED.
MD29	REMOVE EXISTING CURB CONTAINING NATURAL GAS VENTS. COORDINATE WITH OWNER'S ROOF WARRANTY PROVIDER TO PATCH EXISTING ROOF AS REQUIRED.
MD30	EXISTING FLUE TO REMAIN. SHOWN FOR REFERENCE ONLY.
MD35	UNDER BASE BID, CAREFULLY REMOVE AND SALVAGE EXISTING ROOF MOUNTED HYDRONIC PIPING AND ASSOCIATED SUPPORTS LOCATED WITHIN REGION REQUIRED FOR NEW METAL WALL PANEL INSTALLATION. PREPARE PIPING FOR REINSTALLATION IN NEW LOCATION.

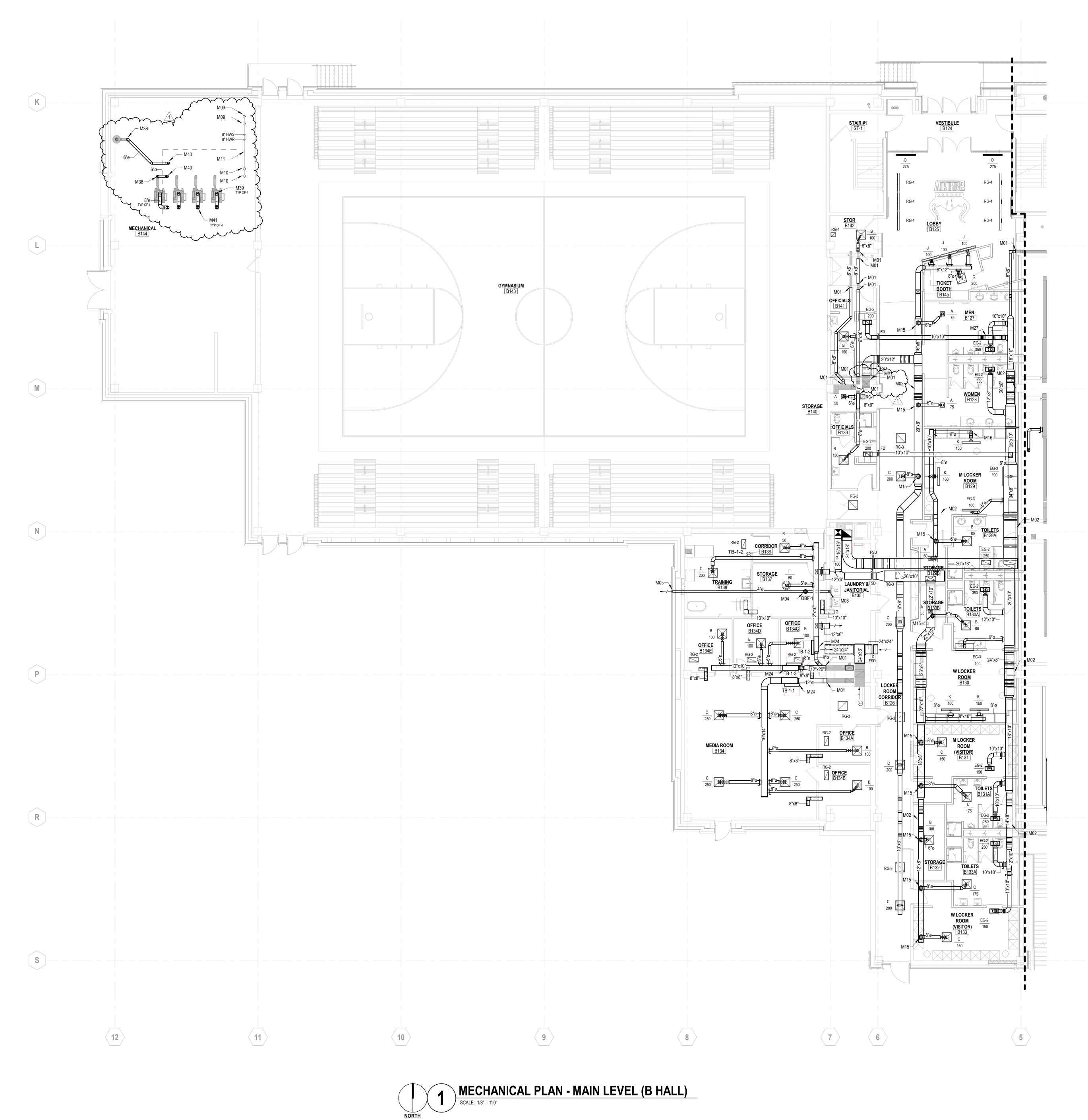


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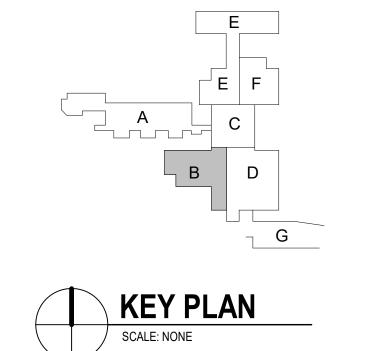
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	GENERAL MECHANICAL NOTES
	MECHANICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE THE INSTALLATION OF THE DUCT SYSTEMS. LAYOUTS ARE SCHEMATIC IN NATURE AND PROVIDE GENERAL ROUTING SOLUTIONS. CONTRACTOR SHALL COORDINATE ALL ROUTES ON SITE.
	ALL DUCTS SHALL BE SEALED AND INSULATED PER SPECIFICATIONS.
	INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE TO ALLOW FOR CLEARANCE WITH CEILINGS AND OTHER TRADES.
	SEE THE REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS IN THE CEILINGS.
	MECHANICAL NOTES
01	CONNECT NEW DUCTWORK TO EXISTING. TRANSITION AS REQUIRED TO MAKE CONNECTION.
102	OFFSET AND TRANSITION DUCTWORK AS REQUIRED TO ROUTE BELOW EXISTING CONCRETE BEAM IN THIS APPROXIMATE LOCATION.
103	ROUTE DRYER VENT UP ALONG WALL TO APPROXIMATELY 10'-0" A.F.F. TERMINATE AT 12" AFF FOR CONNECTION TO DRYER.
04	INSTALL DRYER BOOSTER FAN IN THIS APPROXIMATE LOCATION. MOUNT UNIT SUSPENDED FROM STRUCTURE IN STRICT COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS.
05	ROUTE DRYER EXHAUST THROUGH EXTERIOR WALL IN THIS APPROXIMATE LOCATION AND TERMINATE WITH DRYER VENT LOUVER.
09	CONNECT NEW PIPING TO EXISTING IN THIS APPROXIMATE LOCATION. TRANSITION AS REQUIRED TO MAKE CONNECTION.
110	ROUTE PIPING THROUGH EXISTING ROOF IN THIS APPROXIMATE LOCATION. COORDINATE REQUIRED OPENINGS WITH OTHER TRADES AND OWNER'S ROOF WARRANTY PROVIDER.
11	ROUTE PIPING STACKED BELOW ROOF INSIDE MECHANICAL ROOM SPACE.
15	TAP BRANCH DUCT OFF TOP OF MAIN DUCT.
16	TRANSITION DUCTWORK DOWN AT THIS APPROXIMATE LOCATION TO CONNECT INTO SUPPLY DIFFUSER BOOT.
24	INSTALL TERMINAL UNIT WITH ELECTRIC REHEAT ABOVE CEILING IN ACCESIBLE LOCATION IN STRICT COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS. COORDINATE INSTALLATION REQUIREMENTS WITH OTHER TRADES.
27	OFFSET DUCT TO AVOID INTERFERENCE WITH ADJACENT DUCT.
138	ROUTE EXHAUST FLUE DOWN TO GAS-FIRED EQUIPMENT BELOW AND CONNECT TO EXISTING.
100	

	GENERAL MECHANICAL NOTES
1.	MECHANICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE THE INSTALLATION OF THE DUCT SYSTEMS. LAYOUTS ARE SCHEMATIC IN NATURE AND PROVIDE GENERAL ROUTING SOLUTIONS. CONTRACTOR SHALL COORDINATE ALL ROUTES ON SITE.
2.	ALL DUCTS SHALL BE SEALED AND INSULATED PER SPECIFICATIONS.
3.	INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE TO ALLOW FOR CLEARANCE WITH CEILINGS AND OTHER TRADES.
4.	SEE THE REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS IN THE CEILINGS.
	MECHANICAL NOTES
M01	CONNECT NEW DUCTWORK TO EXISTING. TRANSITION AS REQUIRED TO MAKE CONNECTION.
M02	OFFSET AND TRANSITION DUCTWORK AS REQUIRED TO ROUTE BELOW EXISTING CONCRETE BEAM IN THIS APPROXIMATE LOCATION.
M03	ROUTE DRYER VENT UP ALONG WALL TO APPROXIMATELY 10'-0" A.F.F. TERMINATE AT 12" AFF FOR CONNECTION TO DRYER.
M04	INSTALL DRYER BOOSTER FAN IN THIS APPROXIMATE LOCATION. MOUNT UNIT SUSPENDED FROM STRUCTURE IN STRICT COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS.
M05	ROUTE DRYER EXHAUST THROUGH EXTERIOR WALL IN THIS APPROXIMATE LOCATION AND TERMINATE WITH DRYER VENT LOUVER.
M09	CONNECT NEW PIPING TO EXISTING IN THIS APPROXIMATE LOCATION. TRANSITION AS REQUIRED TO MAKE CONNECTION.
M10	ROUTE PIPING THROUGH EXISTING ROOF IN THIS APPROXIMATE LOCATION. COORDINATE REQUIRED OPENINGS WITH OTHER TRADES AND OWNER'S ROOF WARRANTY PROVIDER.
M11	ROUTE PIPING STACKED BELOW ROOF INSIDE MECHANICAL ROOM SPACE.
M15	TAP BRANCH DUCT OFF TOP OF MAIN DUCT.
M16	TRANSITION DUCTWORK DOWN AT THIS APPROXIMATE LOCATION TO CONNECT INTO SUPPLY DIFFUSER BOOT.
M24	INSTALL TERMINAL UNIT WITH ELECTRIC REHEAT ABOVE CEILING IN ACCESIBLE LOCATION IN STRICT COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS. COORDINATE INSTALLATION REQUIREMENTS WITH OTHER TRADES.
M27	OFFSET DUCT TO AVOID INTERFERENCE WITH ADJACENT DUCT.
M38	ROUTE EXHAUST FLUE DOWN TO GAS-FIRED EQUIPMENT BELOW AND CONNECT TO EXISTING.
M39	ROUTE COMBUSTION AIR DUCT DOWN TO GAS-FIRED EQUIPMENT BELOW AND CONNECT.
M39 M40	



NORTH

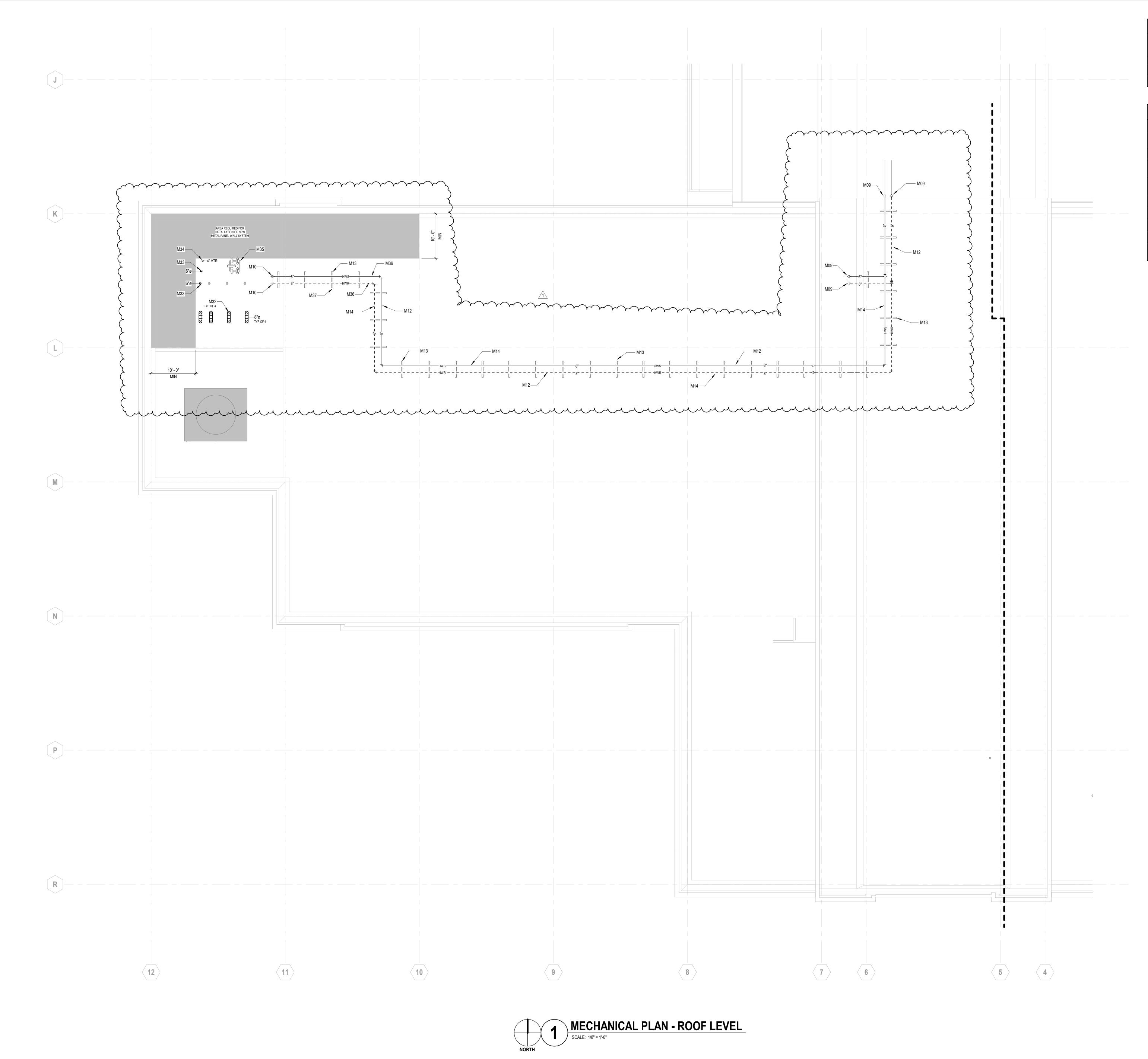


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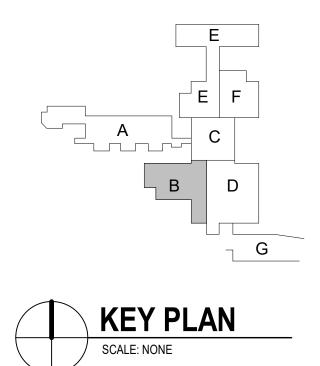
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## CENEDAL MECHANICAL NOTES

GENERAL MECHANICAL NOTES
MECHANICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE THE INSTALLATION OF THE DUCT SYSTEMS. LAYOUTS ARE SCHEMATIC IN NATURE AND PROVIDE GENERAL ROUTING SOLUTIONS. CONTRACTOR SHALL COORDINATE ALL ROUTES ON SITE.
ALL DUCTS SHALL BE SEALED AND INSULATED PER SPECIFICATIONS.
INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE TO ALLOW FOR CLEARANCE WITH CEILINGS AND OTHER TRADES.
SEE THE REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS IN THE CEILINGS

	MECHANICAL NOTES
M09	CONNECT NEW PIPING TO EXISTING IN THIS APPROXIMATE LOCATION. TRANSITI AS REQUIRED TO MAKE CONNECTION.
M10	ROUTE PIPING THROUGH EXISTING ROOF IN THIS APPROXIMATE LOCATION. COORDINATE REQUIRED OPENINGS WITH OTHER TRADES AND OWNER'S ROOF WARRANTY PROVIDER.
M12	UNDER ALTERNATE #6, INSULATE PIPING WITH VENTURECLAD INSULATED JACKETING SYSTEM MATCHING EXISTING CONDITION.
M13	UNDER ALTERNATE #6, CONTRACTOR SHALL RAISE PIPING OFF OF EXISTING ROO AND INSTALL DURABLOCK PIPE SUPPORTS SPACED PER MANUFACTURER RECOMMENDATIONS OR 6'-0" MAXIMUM. TYPICAL.
M14	UNDER ALTERNATE #6, REINSTALL EXISTING SALVAGED PIPING IN NEW LOCATIO AND SUPPLEMENT WITH NEW AS REQUIRED TO ACCOMMODATE ROOFING CHANGES.
M32	ROUTE COMBUSTION AIR DUCT THROUGH ROOF AND TERMINATE WITH TURNED DOWN GOOSENECK WITH INSECT SCREEN.
M33	ROUTE FLUE THROUGH ROOF IN THIS APPROXIMATE LOCATION AND TERMINATE WITH HOODED EXHAUST CAP.
M34	ROUTE VENT THROUGH ROOF AND TERMINATE A MINIMUM OF 18" ABOVE ROOF LEVEL.
M35	ROUTE RELOCATED NATURAL GAS VENTS THROUGH ROOF WITH PATE PIPE CUR AND TERMINATE WITH TURNED DOWN ELBOWS.
M36	UNDER BASE BID, RECONNECT RELOCATED PIPING TO EXISTING IN THIS LOCATION
M37	UNDER BASE BID, REINSTALL EXISTING BLOCK SUPPORTS WITH RELOCATED PIPING. TYPICAL.



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TION. TRANSITION LOCATION. DWNER'S ROOF SULATED

OF EXISTING ROOF ACTURER

IN NEW LOCATION ROOFING E WITH TURNED

H PATE PIPE CURB G IN THIS LOCATION.

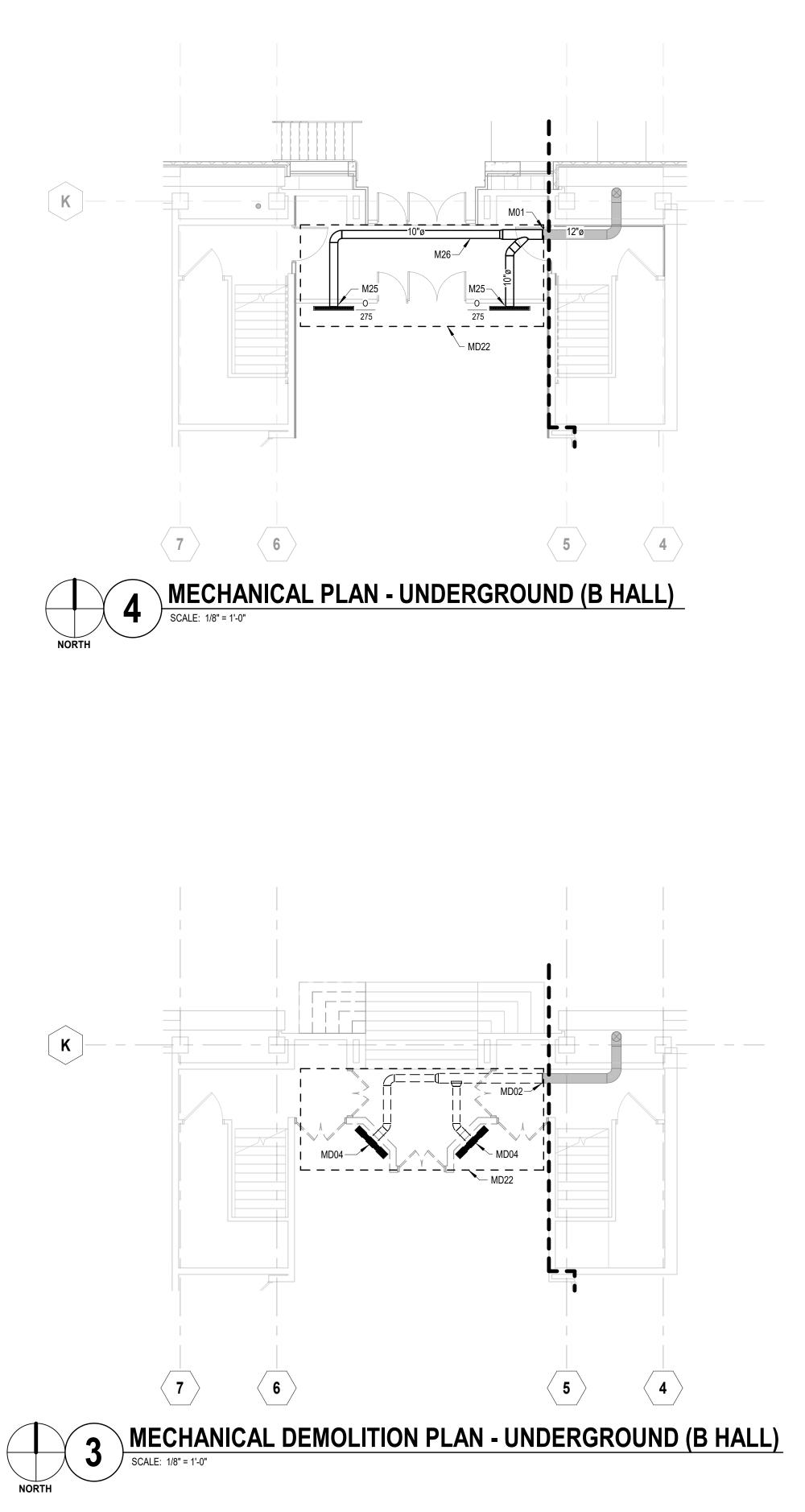


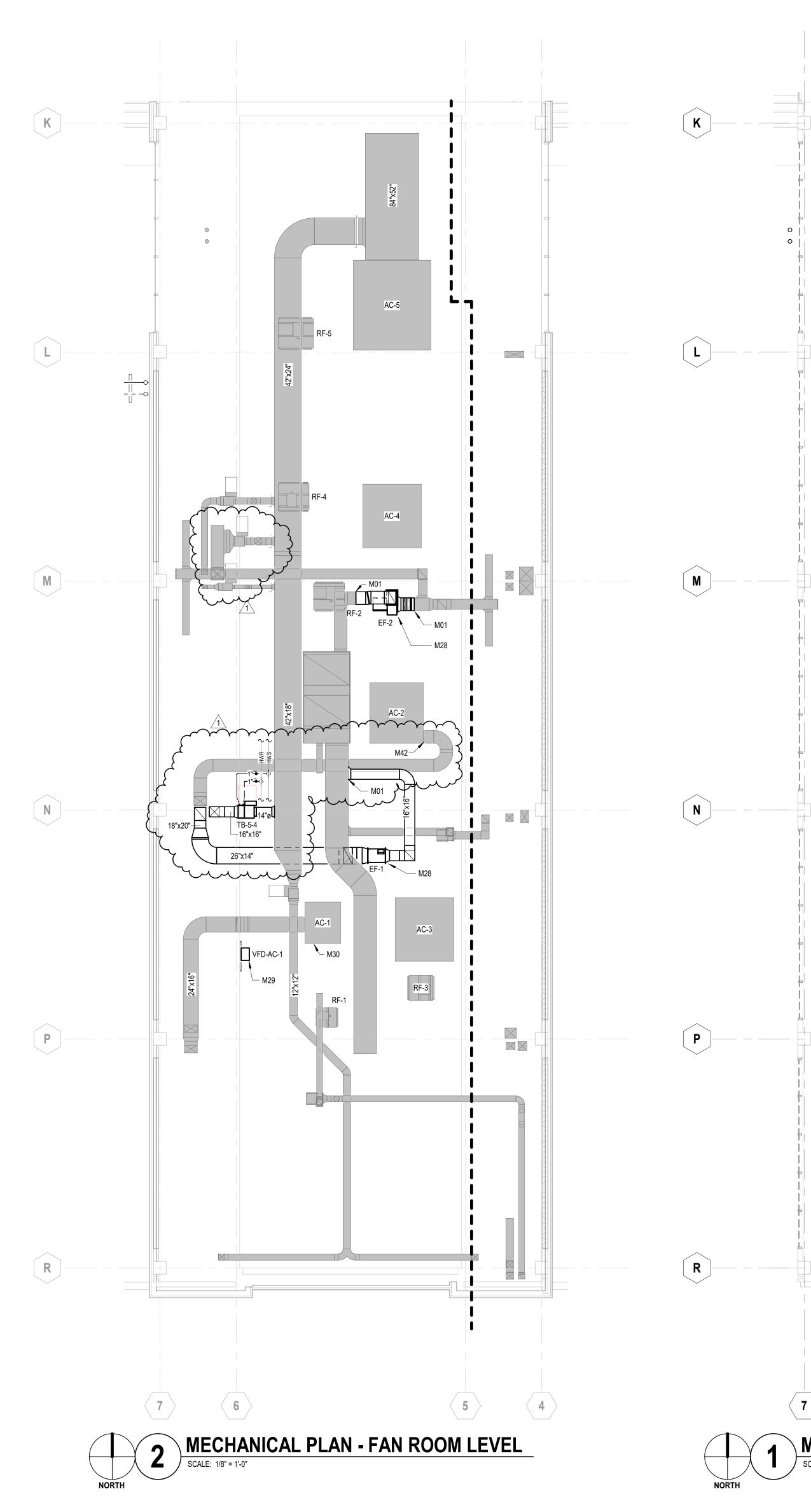
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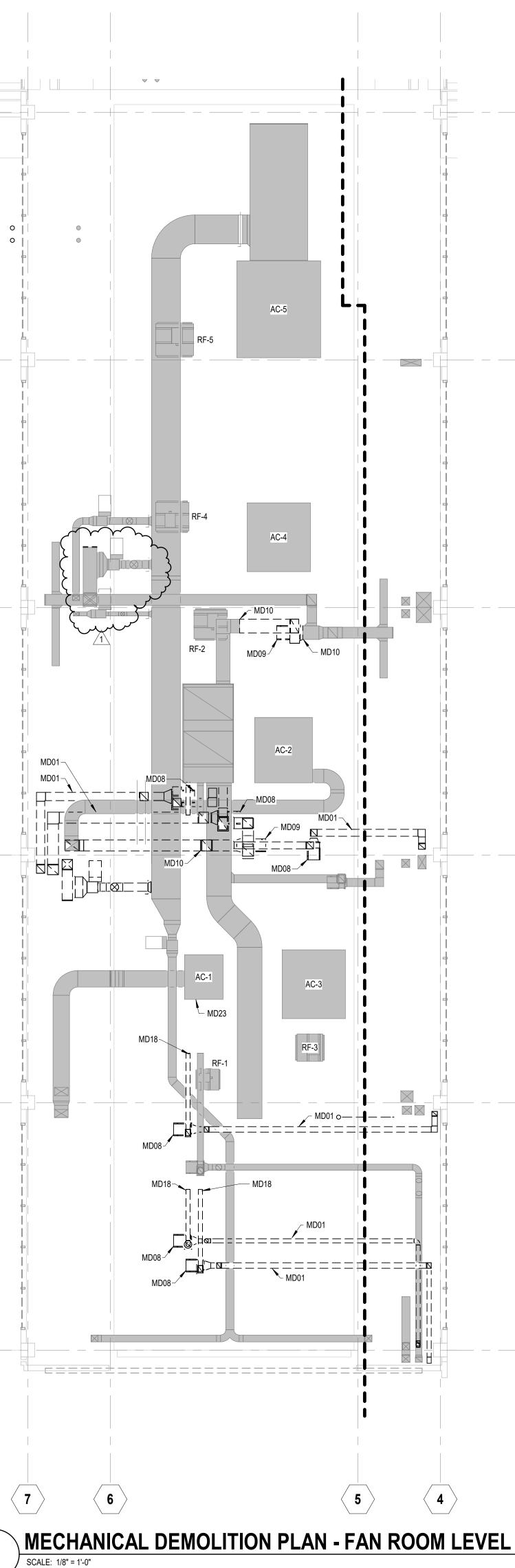


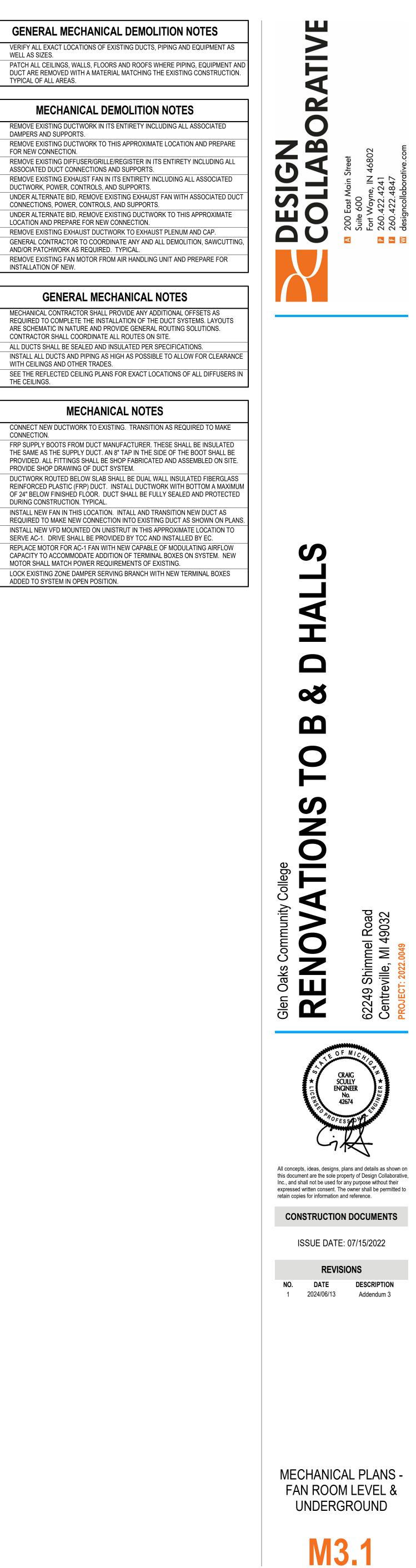


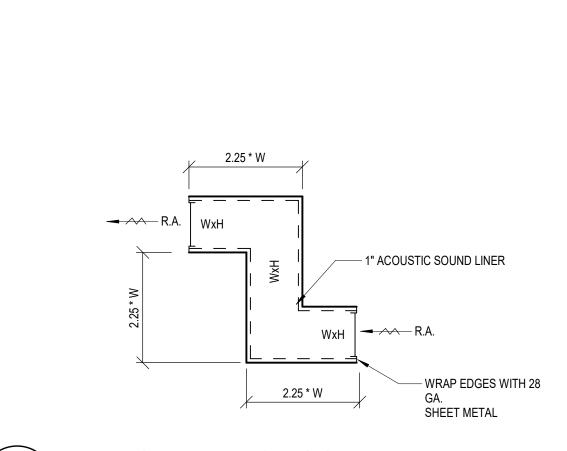
	GENERAL MECHANICAL DEMOLITION NOTES
1.	VERIFY ALL EXACT LOCATIONS OF EXISTING DUCTS, PIPING AND EQUIPMENT AS WELL AS SIZES.
2.	PATCH ALL CEILINGS, WALLS, FLOORS AND ROOFS WHERE PIPING, EQUIPMENT A DUCT ARE REMOVED WITH A MATERIAL MATCHING THE EXISTING CONSTRUCTIO TYPICAL OF ALL AREAS.
	MECHANICAL DEMOLITION NOTES
MD01	REMOVE EXISTING DUCTWORK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED DAMPERS AND SUPPORTS.
MD02	REMOVE EXISTING DUCTWORK TO THIS APPROXIMATE LOCATION AND PREPARE FOR NEW CONNECTION.
MD04	REMOVE EXISTING DIFFUSER/GRILLE/REGISTER IN ITS ENTIRETY INCLUDING ALL ASSOCIATED DUCT CONNECTIONS AND SUPPORTS.
MD08	REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY INCLUDING ALL ASSOCIATED DUCTWORK, POWER, CONTROLS, AND SUPPORTS.
MD09	UNDER ALTERNATE BID, REMOVE EXISTING EXHAUST FAN WITH ASSOCIATED DU CONNECTIONS, POWER, CONTROLS, AND SUPPORTS.
MD10	UNDER ALTERNATE BID, REMOVE EXISTING DUCTWORK TO THIS APPROXIMATE LOCATION AND PREPARE FOR NEW CONNECTION.
MD18	REMOVE EXISTING EXHAUST DUCTWORK TO EXHAUST PLENUM AND CAP.
MD22	GENERAL CONTRACTOR TO COORDINATE ANY AND ALL DEMOLITION, SAWCUTTI AND/OR PATCHWORK AS REQUIRED. TYPICAL.
MD23	REMOVE EXISTING FAN MOTOR FROM AIR HANDLING UNIT AND PREPARE FOR INSTALLATION OF NEW.
	GENERAL MECHANICAL NOTES
1.	MECHANICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AS
	REQUIRED TO COMPLETE THE INSTALLATION OF THE DUCT SYSTEMS. LAYOUTS ARE SCHEMATIC IN NATURE AND PROVIDE GENERAL ROUTING SOLUTIONS.
	CONTRACTOR SHALL COORDINATE ALL ROUTES ON SITE.
2.	ALL DUCTS SHALL BE SEALED AND INSULATED PER SPECIFICATIONS.
3.	INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE TO ALLOW FOR CLEARAN WITH CEILINGS AND OTHER TRADES.
4.	SEE THE REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL DIFFUSERS THE CEILINGS.
	MECHANICAL NOTES
M01	CONNECT NEW DUCTWORK TO EXISTING. TRANSITION AS REQUIRED TO MAKE CONNECTION.
M25	FRP SUPPLY BOOTS FROM DUCT MANUFACTURER. THESE SHALL BE INSULATED THE SAME AS THE SUPPLY DUCT. AN 8" TAP IN THE SIDE OF THE BOOT SHALL BE PROVIDED. ALL FITTINGS SHALL BE SHOP FABRICATED AND ASSEMBLED ON SITE PROVIDE SHOP DRAWING OF DUCT SYSTEM.
M26	DUCTWORK POLITED RELOW SLAR SHALL BE DUAL WALL INSULATED EIBERGLAS

DURING CONSTRUCTION. TYPICAL.

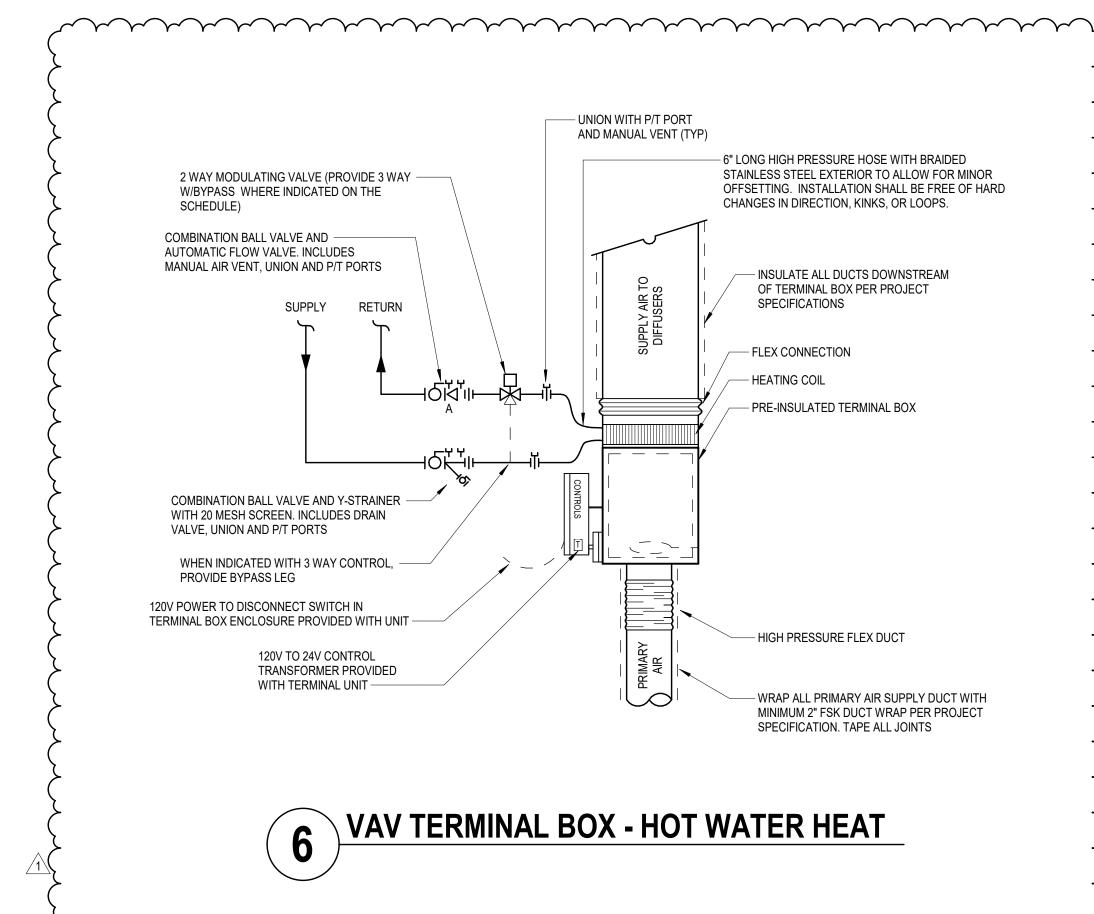
MOTOR SHALL MATCH POWER REQUIREMENTS OF EXISTING.

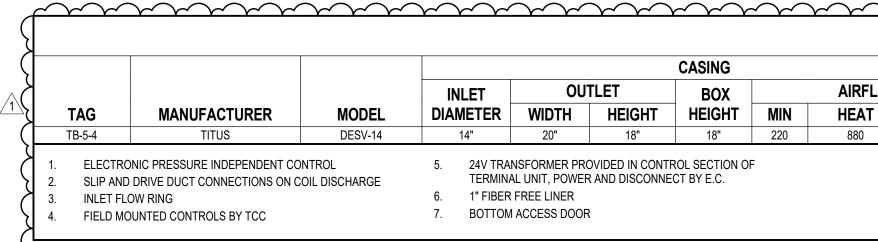






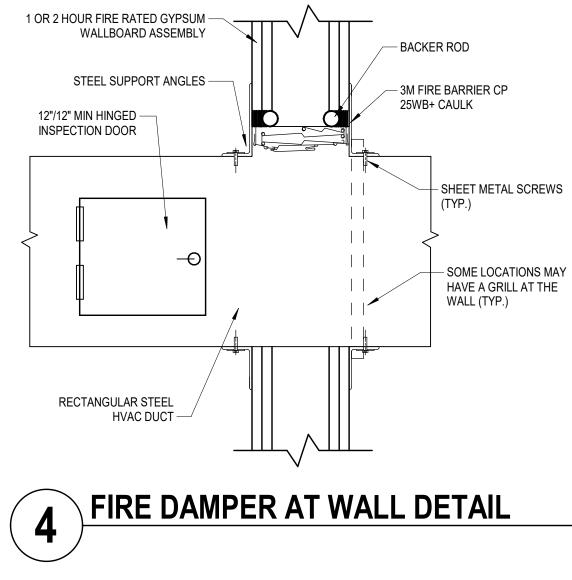


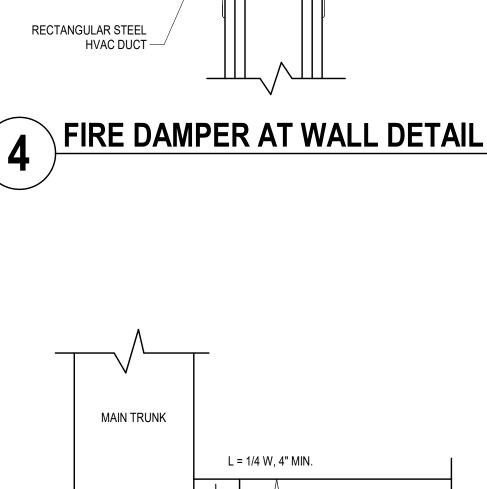


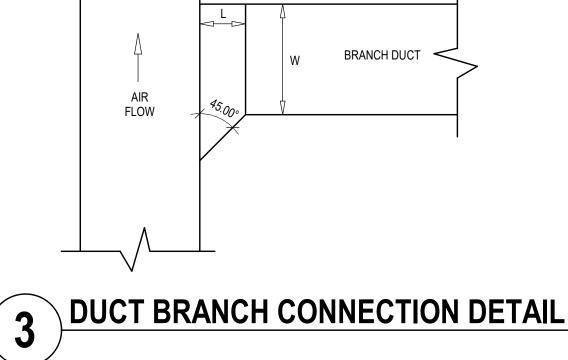


		CASING			ELECTRIC HEAT COIL												
			INLET	OU	TLET			PRIM	ARY AIR								
TAG	MANUFACTURER	MODEL	DIAMETER	WIDTH	HEIGHT	BOX HEIGHT	MIN	HEAT	DESIGN	MAX	VOLTAGE	PHASE	KW	TH	EAT DB	LAT DB	STAGES
TB-1-1	TITUS	DESV-12	12"	16"	15"	15"	170	850	1200	1700	277 V	1	9 kW	30709 Btu/h	55.0 °F	88.4 °F	2
TB-1-2	TITUS	DESV-08	8"	12"	10"	12"	70	350	500	700	277 V	1	4 kW	13649 Btu/h	55.0 °F	91.1 °F	2
TB-1-3	TITUS	DESV-08	8"	12"	10"	12"	70	350	300	700	277 V	1	4 kW	13649 Btu/h	55.0 °F	91.1 °F	2
TB-2-1	TITUS	DESV-08	8"	12"	10"	12"	70	350	400	700	277 V	1	4 kW	13649 Btu/h	55.0 °F	91.1 °F	2
TB-2-2	TITUS	DESV-08	8"	12"	10"	12"	70	350	400	700	277 V	1	4 kW	13649 Btu/h	55.0 °F	91.1 °F	2
TB-2-3	TITUS	DESV-12	12"	16"	15"	15"	170	850	1200	1700	277 V	1	9 kW	30709 Btu/h	55.0 °F	88.4 °F	2

					F	AN SCHEDULE							
					F	AN	MOTOR						
TAG	MANUFACTURER	MODEL	TOTAL CFM	TSP	RPM	TYPE	MOUNTING	DRIVE	VOLTAGE	PHASE	HP	WEIGHT	
DBF-1	TJERNLUND	LB2	160			DRYER BOOSTER	DUCT	DIRECT	120 V	1	50 W		T
EF-1	LOREN COOK	150 TMX	2500	1.000 in-wg	1725	INLINE	FLOOR	DIRECT	120 V	1	3/4	150 lb	
EF-2	LOREN COOK	195 CPA	2400	0.500 in-wg	1725	UTILITY SET	FLOOR	DIRECT	208 V	1	1 1/4	250 lb	
PF-1	QMARK	48201	21000	0.100 in-wg	315	PADDLE	CEILING	DIRECT	120 V	1	1/6	22 lb	
PF-2	QMARK	48201	21000	0.100 in-wg	315	PADDLE	CEILING	DIRECT	120 V	1	1/6	22 lb	
PF-3	QMARK	48201	21000	0.100 in-wg	315	PADDLE	CEILING	DIRECT	120 V	1	1/6	22 lb	
<ol> <li>DRYER BOOSTER FAN WITH REVERSE INCLINED IMPELLER SUITABLE FOR PARTICULATE HANDLING</li> <li>BOOSTER NOTIFICATION PANEL MOUNTED IN VISIBLE LOCATION ADJACENT TO DRYER</li> <li>DISCONNECT BY E.C.</li> <li>UNIT MOUNTED DISCONNECT</li> <li>MIXED FLOW INLINE FAN</li> <li>MOTOR IN 12 O'CLOCK POSITION</li> <li>FAN SHALL RUN DURING OCCUPIED SCHEDULE BY TCC</li> </ol>					DUCT CONNECTIO IR WITH PREWIRE CIENCY ALUMINUM OPPOSED BLADE DUNDING RING	KEEPING PAD WITH S NS ON INLET AND OU D FAN SPEED CONTR 1 UTILITY SET WITH A DAMPER ON FAN OU N BUILDING STATIC F	JTLET ROLLER LUMINUM WHEEL TLET EQUAL TO TAM		20. SOLI	CHITECT DLLER TO CONTROL BLE FAN DIRECTION E BID			

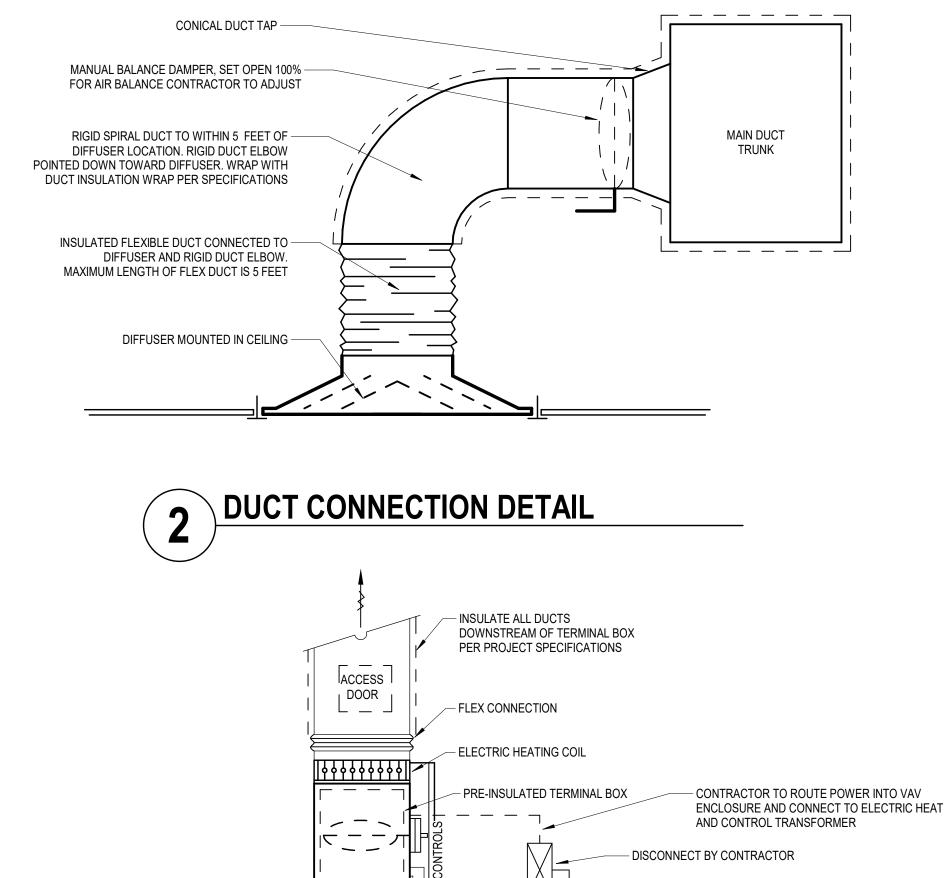






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TERMINAL BOX SCHEDULE - HOT WATER HEAT														
							HOT WATE	R COIL						
FLOW														
AT 🛛	MAX	ТН	EAT DB	LAT DB	APD	GPM	WPD (ftH2O)	EWT	LWT	FLUID	ROWS	FPI	CONTROL	CO2 SENSOR
0	1750	47447 Btu/h	55.0 °F	104.9 °F	0.33 in-wg	4	1.57	160.0 °F	136.3 °F	WATER	2	10	2-WAY	

TAG	MANUFACTURER	MODEL	NECK SIZE	FACE SIZE	SYSTEM	MOUNTING	MATERIAL	FINISH					
Α	TUTTLE & BAILEY	T1100-06-SF	6" DIA	12"x12"	SUPPLY	SURFACE	STEEL	WHITE					
В	TUTTLE & BAILEY	T1100-06-LT	6" DIA	24"x24"	SUPPLY	LAY-IN	STEEL	WHITE					
С	TUTTLE & BAILEY	T1100-08-LT	8" DIA	24"x24"	SUPPLY	LAY-IN	STEEL	WHITE					
D	TUTTLE & BAILEY	T1100-10-LT	10" DIA	24"x24"	SUPPLY	LAY-IN	STEEL	WHITE					
F	TUTTLE & BAILEY	RT1100	6" DIA	11" DIA	SUPPLY	DUCT	STEEL	WHITE					
G	TUTTLE & BAILEY	T54	12x6	14x8	SUPPLY	WALL	STEEL	WHITE					
Н	TUTTLE & BAILEY	T54	26x8	28x10	SUPPLY	WALL	STEEL	WHITE					
J	TUTTLE & BAILEY	6000 SERIES	6" DIA	96"x6"	SUPPLY	SURFACE	ALUMINUM	CUSTOM					
K	TUTTLE & BAILEY	6000 SERIES	8" DIA	96"x6"	SUPPLY	SURFACE	ALUMINUM	CUSTOM					
L	TUTTLE & BAILEY	6000 SERIES	8" DIA	48 X 4.5	SUPPLY	WALL	ALUMINUM	CUSTOM					
М	TUTTLE & BAILEY	6000 SERIES	8" DIA	96"x6"	SUPPLY	SURFACE	ALUMINUM	CUSTOM					
0	TUTTLE & BAILEY	4000 SERIES	10" DIA	48"x6"	SUPPLY	FLOOR	STEEL	ANODIZED					
		005500	401 401	4011 4011	DETUDN								
RG-1	TUTTLE & BAILEY	CRE500	10" x 10"	12" x 12"	RETURN	SURFACE	ALUMINUM	WHITE					
RG-2	TUTTLE & BAILEY	CRE500	22" x 10"	24" x 12"	RETURN	SURFACE	ALUMINUM	WHITE					
RG-3	TUTTLE & BAILEY	CRE500	22" x 22"	24" x 24"	RETURN	LAY-IN	ALUMINUM	WHITE					
RG-4	TUTTLE & BAILEY	6000 SERIES		48"x6"	RETURN	SURFACE	ALUMINUM	CUSTOM					
RG-5	TUTTLE & BAILEY	6000 SERIES		48"x6"	RETURN	SURFACE	ALUMINUM	CUSTOM					
EG-2	TUTTLE & BAILEY	CRE500	00" v 40"	0.4" x 40"	EXHAUST	SURFACE	ALUMINUM	WHITE					
			22" x 10"	24" x 12"									
EG-3	TUTTLE & BAILEY	6000 SERIES	6" DIA	96"x6"	EXHAUST	SURFACE	ALUMINUM	CUSTOM					
FACTOR	Y INSULATED BACKPAN		6. INTERNALLY	INSULATED PLENU	M WITH DUCT COL	LAR							
DRYWAL	LL FLANGE		7. INTEGRAL B	UTTERFLY DAMPER									
SLOT DI	FFUSER WITH TWO (2) 1" SLOTS		8. LINEAR BAR	GRILLE WITH HEAVY	OUTY, HEEL PRO	OOF SPACING							
	FFUSER WITH THREE (3) 1" SLOTS												
	FACE SLOT DIFFUSER WITH THREE	(3) 1" SLOTS											



VAV TERMINAL BOX - ELECTRIC HEAT

- HIGH PRESSURE

FLEX DUCT

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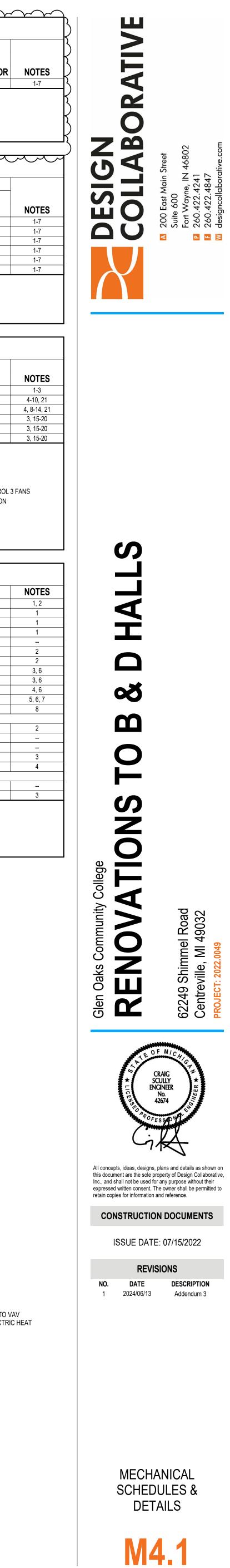
TERMINAL BOX WITH 2" FSK

DUCT WRAP. TAPE ALL JOINTS

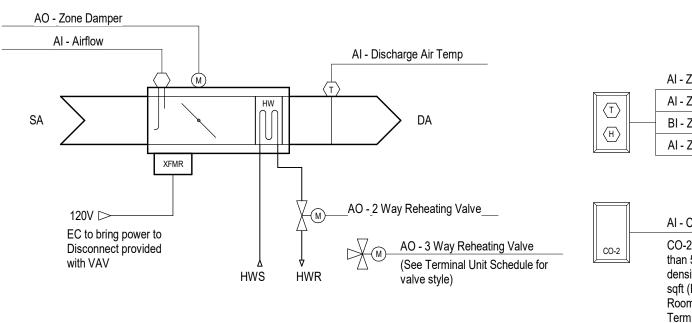
- LINE POWER TO VAV - SEE SCHEDULE FOR VOLTAGE AND PHASE

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----- LINE VOLTAGE TO 24V CONTROL TRANSFORMER PROVIDED WITH TERMINAL BOX



SINGLE DUCT VAV TERMINAL BOX CONTROL W/CO-2



## SHUT-OFF VAV BOX SEQUENCE OF OPERATION

## RUN CONDITIONS:

THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN OCCUPIED AND UNOCCUPIED MODES WITH SETPOINTS PER THE TABLE IN THE GENERAL INFORMATION.

## ZONE SETPOINT ADJUST:

THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR. THE SENSOR SHALL HAVE A SOFTWARE LIMIT RANGE OF ±4°F (ADJ) OF THE ZONE SETPOINT.

## ZONE OPTIMAL START:

THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

## ZONE UNOCCUPIED OVERRIDE:

CRITICAL ZONE SETBACK:

A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR A OF UP TO 2 HOURS (ADJ). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

## AIRFLOW OVERIDE CONTROL W/ ROOM CO-2 SENSING: THE CONTROLLER SHALL MEASURE THE CO-2 LEVEL OF THE SPACE. IF THE SPACE CO-2 LEVEL IS ABOVE 1100 PPM (ADJ), THE CONTROLLER SHALL COMMUNICATE TO THE AIR HANDLER TO OVERRIDE THE VENTILATION AIR DAMPER POSITION TO ITS MAXIMUM VENTILATION POSITION AS INDICATED ON THE DRAWINGS AND SET DURING AIR BALANCE. THE AIR HANDLER OUTSIDE AIR DAMPER SHALL RETURN TO

NORMAL VENTILATION POSITION ONCE ALL ZONES WITH CO-2 SENSORS ARE BELOW 900 PPM (ADJ). IF THE SPACE CO-2 CONCENTRATION IS ABOVE 1400 PPM (ADJ) AN ALARM SHALL BE SENT TO THE BAS.

## THE CONTROLLER SHALL SET THE SUPPLY AIR TEMERATURE FROM THE AIR HANDLER BASED UPON A RESET SCHEDULE USING ZONE DAMPER POSITIONS OF ALL ZONES SERVED BY THE AIR HANDLER.

THE ZONE DAMPER THAT IS OPEN THE MOST SHALL BE THE CRITICAL ZONE. THE BMS SHALL ALLOW THE SUPPLY AIR TEMPERATURE TO RESET BETWEEN 55°F (ADJ) AND 62°F (ADJ) TO MAINTAIN THE CRITICAL ZONE POSITION AT 100% OPEN. THE SUPPLY AIR TEMPERATURE SHALL RESET BACK DOWN IF THE SPACE SENSOR IS MORE THAN 1°F ABOVE COOLING SETPOINT.

WHEN A MINIMUM QUANTITY OF ZONES HAVE TEMPERATURES GREATER THAN THE UNOCCUPIED COOLING SETPOINT, START THE ASSOCIATED AIR HANDLER AND OPEN THE ZONE DAMPERS TO THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONES ARE SATISFIED. HUMIDITY CONTROL: IF THE ZONE HUMIDITY DROPS BELOW THE HUMIDITY SETPOINT OF 40% RH (ADJ.) DURING THE WINTER MONTHS, A SIGNAL SHALL BE SENT TO THE ROOFTOP UNIT AND

ONE OF THE FOLLOWING:

ZONE IS SATISFIED.

OCCUPIED:

UNOCCUPIED:

## SENSOR. IF THE ZONE HUMIDITY RISES ABOVE 55% RH (ADJ.), THE VAV SHALL OPEN THE ZONE

TO MAINTAIN THE ROOM SETPOINT OF 70°F (ADJ). THE VAV SHALL RESUME ITS NORMAL SEQUENCE ON A CALL FOR COOLING OR HEATING, OR THE ZONE HUMIDITY LOWERS BACK BELOW 50% RH (ADJ.) REHEATING COIL VALVE:

## WHEN THE ZONE TEMPERATURE IS BELOW THE HEATING SETPOINT, THE ZONE DAMPER SHALL MODULATE TO THE HEATING AIRFLOW POSITION (ADJ) AND THE

CONTROLLER SHALL MODULATE THE HEATING COIL VALVE OPEN TO MAINTAIN ITS HEATING SETPOINT. THE HEATING SHALL BE ENABLED WHENEVER THE ZONE TEMPERATURE IS

## DISCHARGE AIR TEMPERATURE:

BELOW HEATING SETPOINT.

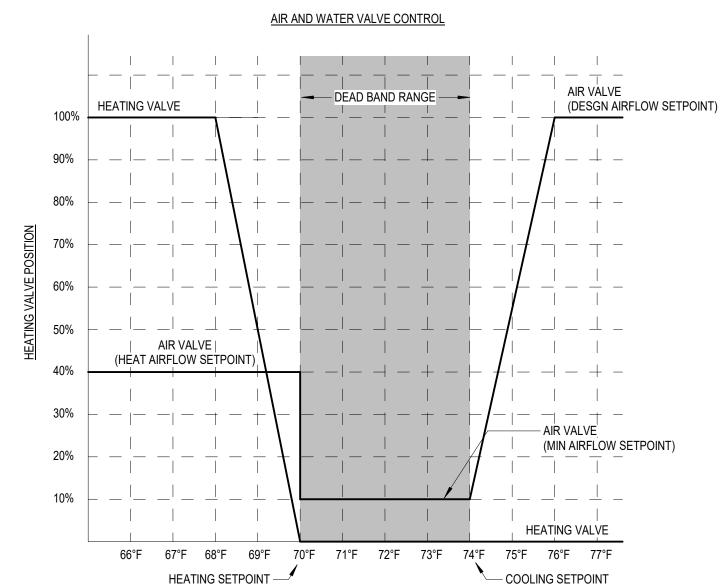
THE DISCHARGE AIR TEMPERATURE SHALL BE MONITORED AND MADE AVAILABLE TO THE SYSTEM

## ALARMS:

THE FOLLOWING ALARMS SHALL BE INCLUDED ON THE GRAPHICS: HIGH ZONE TEMPERATURE LOW ZONE TEMPERATURE

### HIGH ZONE CO2 ALARM LOW ZONE HUMIDITY

HIGH ZONE HUMIDITY



ROOM SETPOINT TEMP

## AI - Zone Temp AI - Zone Setpoint Adjust BI - Zone Override AI - Zone Humidity

AI - Carbon Dioxide PPM CO-2 Sensors shall be in spaces greater than 500 sqft and having a occupant density greater than 40 people per 1000 sqft (Example: Classrooms, Conference Rooms, Assembly areas, etc). See Terminal Box Schedule for Zones

VARIABLE VOLUME TERMINAL UNIT - COOLING AIRFLOW CONTROL: THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH

required.

WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT. THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE

WHEN THE ZONE TEMPERATURE IS LESS THAN THE COOLING SETPOINT. BUT GREATER THAN THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.).

WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL BE CLOSED.

HUMIDIFIER TO START THE UNIT HUMIDIFIER SHALL START AND STAGE TO MAINTAIN THE SETPOINT. THIS IS TO BE USED IN CONJUNCTION WITH THE RETURN AIR HUMIDITY

DAMPER TO THE DESIGN COOLING AIRFLOW AND MODULATE THE REHEAT COIL VALVE

**BUILDING AUTOMATION SYSTEM SPECIFICATION** 

DIRECT DIGITAL CONTROL (DDC) TECHNOLOGY SHALL BE USED TO PROVIDE THE FUNCTIONS NECESSARY FOR CONTROL OF MECHANICAL SYSTEMS ON THIS PROJECT PER THE DETAILS SHOWN ON THE PLAN SHEETS. THE FULL INTENT OF THIS SPECIFICATION IS TO PROVIDE COMPLETE DIGITAL TEMPERATURE CONTROL SYSTEM FOR THE RENOVATED AREA. THE SYSTEM SHALL BE AN EXTENSION OF THE EXISTING FACILITY CONTROL SYSTEM. CONTRACTOR SHALL INCLUDE ALL REQUIRED CONTROLLERS, DRIVES, WIRING, CONDUIT, AND PROGRAMMING AS PART OF BID. THE CONTROL SYSTEM SHALL ACCOMMODATE SIMULTANEOUS MULTIPLE USER OPERATION. ACCESS TO THE CONTROL SYSTEM DATA SHOULD BE LIMITED ONLY BY OPERATOR PASSWORD. MULTIPLE USERS SHALL HAVE ACCESS TO ALL VALID SYSTEM DATA. AN OPERATOR SHALL BE ABLE TO LOG ONTO ANY WORK-STATION ON THE CONTROL SYSTEM AND HAVE ACCESS TO ALL APPROPRIATE DATA. PROVIDE 8 HOURS (IN 2 SEPERATE DAYS OF 4 HOUR BLOCKS) TO FULLY TRAIN THE OWNER'S REPRESENTATIVES ON THE SYSTEM USE.

THE NEW CONTROLS SHALL INTEGRATE WITH THE EXISTING CONTROL SYSTEM WITH COMMUNICATION BETWEEN ALL APPLICATION SPECIFIC CONTROLLERS AND THE NETWORK ADMINISTRATOR. ALL SOFTWARE, LICENSES, UPGRADES AND RIGHTS FOR THE OWNER TO MAKE MODIFICATIONS TO THE SYSTEM FOR 2 YEARS SHALL BE INCLUDED. APPROVED CONTROL VENDORS AND MANUFACTURERS FOR THIS PROJECT INCLUDE: 1. CONTROLS RESOURCES

INCLUDE COMPUTER SOFTWARE AND HARDWARE, A SINGLE FIXED OPERATOR INPUT/OUTPUT DEVICE, CONTROL UNITS, LOCAL AREA NETWORKS (LAN) BETWEEN CONTROLLERS. SENSORS, CONTROL DEVICES, ACTUATORS. THE SYSTEM SHALL BE CAPABLE OF SUPPORTING AN UNLIMITED NUMBER OF CLIENTS USING A STANDARD WEB BROWSER SUCH AS GOOGLE CHROME. COMMUNICATION BETWEEN THE MAIN CONTROL PANEL (THE CONTROL CABINET SHALL BE NEMA 1 TYPE CONSTRUCTION WITH HINGED DOOR, KEY-LOCK LATCH LOCATED IN THE MAIN MECHANICAL ROOM) AND ALL EQUIPMENT SHALL BE OVER A HIGH SPEED NETWORK. APPLICATION SPECIFIC CONTROLLERS AT EQUIPMENT SHALL BE CONSTANTLY SCANNED BY THE NETWORK CONTROLLERS TO UPDATE POINT INFORMATION AND ALARM INFORMATION. WHILE A LOCAL OPERATOR STATION (LAPTOP COMPUTER) IS NOT REQUIRED. COMMUNICATION SHALL BE THRU ANY WEB BASED OPERATOR STATION. A 10BASET JACK SHALL BE PROVIDED AT THE MAIN BUILDING CONTROL PANEL AND PC WORKSTATION FOR CONNECTION TO THIS NETWORK. CONNECTION OF AN OPERATOR INTERFACE DEVICE TO ANY ONE CONTROLLER ON THE INTERNET WORK WILL ALLOW THE OPERATOR TO INTERFACE WITH ALL OTHER CONTROLLERS AS IF THAT INTERFACE WERE DIRECTLY CONNECTED TO THE OTHER CONTROLLERS. DATA, STATUS INFORMATION, REPORTS, SYSTEM SOFTWARE, CUSTOM PROGRAMS, ETC., FOR ALL CONTROLLERS SHALL BE AVAILABLE FOR VIEWING AND EDITING FROM ANY ONE CONTROLLER ON THE INTERNET WORK.

PROVIDE CONTROL SYSTEMS CONSISTING OF SENSORS, CONTROL VALVES, CONTROL DAMPERS ALL WITH ELECTRONIC OPERATORS, INDICATING DEVICES, INTERFACE EQUIPMENT AND OTHER APPARATUS AND ACCESSORIES REQUIRED TO OPERATE MECHANICAL SYSTEMS, AND TO PERFORM FUNCTIONS IDENTIFIED ON THESE DRAWINGS. INCLUDE INSTALLATION AND CALIBRATION, SUPERVISION, ADJUSTMENTS, AND FINE TUNING NECESSARY FOR COMPLETE AND FULLY OPERATIONAL SYSTEM. THE DOCUMENTATION SHOWN ON THESE PLANS IS SCHEMATIC IN NATURE AND THE CONTRACTOR SHALL PROVIDE FULL SHOP DRAWING AND MANUFACTURERS SUBMITTALS FOR THE ENTIRE SYSTEM. OPERATORS MANUAL WITH PROCEDURES OF OPERATING THE CONTROL SYSTEMS INCLUDING LOGGING ON/OFF, ALARM HANDLING, PRODUCING POINT REPORTS, TRENDING DATA, OVERRIDING COMPUTER CONTROL, AND CHANGING SET POINTS AND OTHER VARIABLES. PROVIDE FIVE YEAR MANUFACTURER'S WARRANTY FOR FIELD PROGRAMMABLE MICRO-PROCESSOR BASED UNITS.

PROVIDE AUTOMATIC CONTROL VALVES, AUTOMATIC CONTROL DAMPERS, THERMOSTATS, CLOCKS, SENSORS, CONTROLLERS, AND OTHER COMPONENTS AS REQUIRED FOR COMPLETE INSTALLATION. SPACE SENSORS SHALL BE AVAILABLE WITH SETPOINT ADJUSTMENT AND VISIBLE OVERRIDE SWITCH. THERMO-WELLS FOR ALL IMMERSION SENSORS SHALL BE STAINLESS STEEL OR BRASS AS REQUIRED FOR THE APPLICATION. THE DIFFERENTIAL PRESSURE SENSORS SHALL BE TEMPERATURE COMPENSATED AND SHALL VARY THE OUTPUT VOLTAGE WITH A CHANGE IN DIFFERENTIAL PRESSURE. SENSING RANGE SHALL BE SUITABLE FOR THE APPLICATION WITH LINEARITY OF 1.5% OF FULL SCALE AND OFFSET OF 1% OF FULL SCALE OR BETTER. SENSOR SHALL BE CAPABLE OF WITHSTANDING UP TO 150% OF RATED PRESSURE WITHOUT DAMAGE.

THE CONTRACTOR SHALL PROVIDE HARDWARE AND SOFTWARE NECESSARY TO IMPLEMENT THE FUNCTIONS AND SEQUENCES SHOWN. PROVIDE DATA FOR EACH SYSTEM COMPONENT AND SOFTWARE MODULE. SHOP DRAWINGS SHALL INDICATE TRUNK CABLE SCHEMATIC SHOWING PROGRAMMABLE CONTROL UNIT LOCATIONS, AND TRUNK DATA CONDUCTORS, LIST ALL CONNECTED DATA POINTS, INCLUDING CONNECTED CONTROL UNIT AND INPUT DEVICE, PROVIDE DYNAMIC SYSTEM GRAPHICS INDICATING MONITORED SYSTEMS, DATA (CONNECTED AND CALCULATED) POINT ADDRESSES, AND OPERATOR NOTATIONS. PROVIDE DEMONSTRATION CD CONTAINING THESE GRAPHICS. SHOW SYSTEM CONFIGURATION WITH PERIPHERAL DEVICES, BATTERIES, POWER SUPPLIES, DIAGRAMS, AND INTERCONNECTIONS. INDICATE DESCRIPTION AND SEQUENCE OF OPERATION OF OPERATING, USER, AND APPLICATION SOFTWARE.

AT PROJECT COMPLETION, PROVIDE PROJECT RECORD DOCUMENTS THAT RECORD ACTUAL LOCATIONS OF CONTROL COMPONENTS, INCLUDING CONTROL UNITS, THERMOSTATS, AND SENSORS. REVISE THE SHOP DRAWINGS TO REFLECT ACTUAL INSTALLATION AND OPERATING SEQUENCES AND INCLUDE SUBMITTALS DATA IN FINAL "RECORD DOCUMENTS" FORM. PROVIDE COMPLETE ORIGINAL ISSUE CDS FOR ALL SOFTWARE PROVIDED INCLUDING OPERATING SYSTEMS, PROGRAMMING LANGUAGE, OPERATOR WORK-STATION SOFTWARE, AND GRAPHICS SOFTWARE. PROVIDE SERVICE AND MAINTENANCE OF ENERGY MANAGEMENT AND CONTROL SYSTEMS FOR ONE YEARS FROM DATE OF SUBSTANTIAL COMPLETION. DURING 1 YEAR WARRANTY PERIOD, PROVIDE COMPLETE SERVICE OF SYSTEMS, INCLUDING CALL BACKS. ASSUME A MINIMUM OF 4 COMPLETE NORMAL INSPECTIONS OF APPROXIMATELY 4 HOURS DURATION IN ADDITION TO NORMAL SERVICE CALLS TO INSPECT, CALIBRATE, AND ADJUST CONTROLS.

WIRING REQUIREMENTS: CONFIGURE LAN AS EITHER A BUS, STAR, OR COMBINATION OF THE TWO. USE TWISTED PAIR, COAX, OR FIBEROPTIC CABLE TO MEET NOISE IMMUNITY AND/OR DISTANCE REQUIREMENTS. DESIGN SYSTEM FOR DATA TRANSFER RATE OF NO LESS THAN 1 MEGABAUD. LAN WIRING REQUIRES SHIELDED CABLE OR SHALL BE CABLE CERTIFIED FOR BAC NET. ALL LAN WIRING MUST MEET SUPPLIER'S STANDARDS OF OPERATION AND QUALITY. 1. USE BELDEN NO. 22 GAGE OR LARGER BELDFOIL OR EQUAL FOR RUNS UP TO 250 FEET.

2. USE BELDEN NO. 18 GAGE OR LARGER BELDFOIL OR EQUAL FOR RUNS 250 FEET TO 500 FEET. 3. ALL INPUT/OUTPUT WIRING SHALL HAVE SUFFICIENT STRENGTH TO MEET ALL OPERATIONAL REQUIREMENTS.

SENSOR WIRING OVER 50 FEET, WHERE RUN IN A COMMON CONDUIT OR NEAR INDUCTIVE LOADS, SHALL BE SHIELDED CABLE.

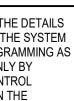
1. USE BELDEN NO. 24 GAGE OR LARGER BELDFOIL OR EQUAL FOR RUNS UP TO 100 FEET. 2. USE BELDEN NO. 18 GAGE OR LARGER BELDFOIL OR EQUAL FOR RUNS UP TO 500 FEET. 3. ALL INPUT/OUTPUT WIRING SHALL HAVE SUFFICIENT STRENGTH TO MEET ALL OPERATIONAL REQUIREMENTS.

INSTALL ALL CONTROL AND INTERLOCK WIRING IN ADDITION TO LOW VOLTAGE SENSOR AND LAN WIRING IN ACCORDANCE WITH LOCAL REQUIREMENTS, THE NATIONAL ELECTRICAL CODE AND ELECTRICAL DIVISIONS OF PROJECT SPECIFICATIONS INSTALLATION MINIMUM REQUIREMENTS:

- 1. MECHANICAL AND SERVICE AREAS PLUS ANY AREAS WITHOUT FINISHED CEILINGS: ALL WIRING INCLUDING CABLES IN EMT. 2. SPACE SENSORS AND ALARMS: ALL WIRING AND CABLES IN EMT WITHIN WALL CONSTRUCTION.
- 3. CEILING RETURNS (ACCESSIBLE OR DROP CEILINGS DUCTED RETURNS); APPROVED NONPLENUM CABLE. 4. CEILINGS (OPEN RETURNS): APPROVED PLENUM-RATED CABLE.
- 5. CEILING RETURNS (NON-ACCESSIBLE); EMT OR CODE COMPLIANT EQUAL SOLID CONDUIT. 6. INSIDE AIR HANDLING UNITS: ALL WIRING INCLUDING CABLES IN EMT OR CODE COMPLIANT EQUAL SOLID CONDUIT. 7. NOTE THAT THE USE OF CABLE IS LIMITED TO LOW VOLTAGE SERVICE LESS THAN 24 VOLT ONLY.
- 8. IN NO CASE SHALL CABLES BE ALLOWED TO LAY ON CEILING GRID. 9. NOTE THAT ALL CONDUIT JUNCTIONS AND TERMINATIONS SHALL UTILIZE COMPRESSION FITTINGS.
- 10. INSTALLATION OF ALL CABLING IN CEILINGS AND WALLS SHALL BE RUN IN A PROFESSIONAL WORKMANLIKE FASHION ACCEPTABLE TO ARCHITECT/ENGINEER. CABLES TO BE SUPPORTED WITH TIE WRAPS SUCH THAT DROOP AND SAG IS WITHIN ACCEPTABLE DEGREES AND SHALL BE SECURELY FASTENED TO FIXED MEMBERS OF THE BUILDING STRUCTURE AT SUFFICIENT POINTS TO AVOID EXCESSIVE FREEDOM OF MOVEMENT.

GRAPHICS SHALL INCLUDE ALL SHOWN GRAPHIC INFORMATION ALONG WITH A FLOORPLAN WITH ALL ZONES SHOWN. GRAPHIC SHALL INCLUDE AS A MINIMUM COLORS OF RED. GREEN, BLUE COLORS IN THE ZONES TO IDENTIFY ROOMS THAT ARE AT OR WITHIN A DEGREE OF SETPOINT (GREEN) OR ABOVE SETPOINT (RED) OR COOLER THAN SETPOINT (BLUE). DOUBLE CLICK OF THESE IMAGES SHALL BRING UP THE DYNAMIC GRAPHIC OF THE SYSTEM SERVING THE AREA.

END OF SPECIFICATIONS





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