ADDENDUM NO. 1

December 22, 2025

Smoky Row Elementary Additions & Renovations
900 West 136th Street
Carmel, IN 46032

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated November 20, 2025, by Fanning/Howe Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-4, 00 20 00C Modular Classroom Reference Drawings, and 01 32 00d Guideline Schedule, and attached Fanning/Howey Addendum No. 1, dated December 19, 2025, consisting of 8 items, 3 pages, New Project Manual Section: 23 81 23 – Computer-Room Air-Conditioners and 27 51 21 – Music Room Sound System Revised Project Manual Section: 06 42 00 – Wood Paneling, 23 09 00 – HVAC Direct Digital Controls, and 27 41 17 – Integrated AV Control System and Equipment, and Revised Drawing Sheets: GD1.1, GD1.2, G1.1, G1.2, G1.3, SU1.3, CTE-GD1.0, CTE-L1.0, CTE-L1.1, CTEL1.2, CTE-L1.3, CTE-L1.4, SRE-L1.00, SRE-L1.10, SRE-L1.20, SRE-L1.30, SRE-L1.40, S1.01, S1.04, AD0.03, AD0.04, A1.02, A1.03, A1.05, A2.01, A5.04, A5.08, A6.01, A7.01, A7.03, A7.07, A7.09, A7.10, A7S.01, A8.01, A8.02, A8.03, A8.06, A8.07, A8.08, A8.09, A8.10, A8.11, A8S.01, A9.03, A9.04, K1.03, K4.02, PD.04, P2.02, P2.03, P2.05, P2.07, P3.01, P4.02, MD1.01, MD1.02, MD1.03, MD1.04, M5.03, M5.05, ED.01, ED.02, ED.03, E3.03, E5.01, E5.02, E5.03, E8.01, and T1.01

A. SPECIFICATION SECTION 00 20 00 AVAILABLE PROJECT INFORMATION

1 . Add the following:

00 20 00C Modular Classroom Reference Drawings

B. SPECIFICATION SECTION 01 12 00 Multiple Contract Summary

A. Bid Category No 1 General Trades

Add the following Clarification:

23. The Bid Category No 7 Flooring contractor is required to walk each phase with the Bid Category No 1 General Trades contractor and the construction manager to sign off on the floor demo immediately after floor demo is completed. This is to ensure that the glue was removed to an acceptable level for future floor prep assumed and included within the flooring contractor's bid.

B. Bid Category No 2 – Masonry

Add the following Clarification:

4. Miscellaneous clips, anchors, supports, lintels and other accessories that interface between masonry and structural steel shall be furnished by the structural steel contractor and installed by the masonry contractor. Flexible masonry ties that interface with the steel shall be provided and installed by the mason.

C. Bid Category No 3 – Structural Steel

Revise the following Clarification:

3. Miscellaneous clips, anchors, supports, lintels and other accessories that interface between masonry and structural steel shall be furnished by the structural steel contractor and installed by the masonry contractor. Flexible masonry ties that interface with the steel shall be provided and installed by the mason.

D. Bid Caategory No 4 – Roofing

Add the following Clarifications:

4. Responsible for any spray foam insulation as shown but not limited to A2.02 Detail 1 that interfaces between the deck and roofing system.
5. All wood blocking and counter flashing that interfaces with the gutters are the responsibility of the Bid Category No 4 Roofing contractor.

E. Bid Category No 5 – Metal Studs, Drywall, and Ceilings

Add the following Clarifications:

6. Contractor responsible to walk each phase with the Bid Category No. 9 – Painting contractor along with the construction manager for sign off on acceptance of GWB finish immediately following primer coat. Any GWB touch up required prior to 1st coat of paint is the responsibility of the Bid Category No. 5 Metal Stud, Drywall, and Ceiling contractor.
7. All wood blocking and counter flashing that interfaces with the gutters are the responsibility of the Bid Category No 4 Roofing contractor.

G. Bid Category No 7 – Flooring

Add the following Clarifications:

2. The Bid Category No 7 Flooring contractor is to walk each phase with the Bid Category No 1 General Trades contractor and the construction manager to sign off on the floor demo. This is to ensure that the glue was removed to an acceptable level for future floor prep.

H. Revise to say Bid Category No. 8 – Casework

I. Bid Category No. 9 Painting

Add the following Clarification:

1. Contractor responsible to walk each phase with the Bid Category No. 5 – Metal Stud, Drywall, and Ceiling contractor along with the construction manager for sign off on acceptance of GWB finish immediately following primer coat. Any GWB touch up required prior to 1st coat of paint is the responsibility of the Bid Category No. 5 Metal Stud, Drywall, and Ceiling contractor. This GWB touch up is to be completed immediately following the walkthrough as to not impact the Painter's schedule.

K. Bid Category 11 Mechanical and Plumbing

Add the following Specification Section:

23 81 23 – Computer-Room-Air-Conditioners

Add the following Clarification:

9. In Phase 2B this contractor is responsible for supporting any existing hydronic lines, duct, and or roof drains during the roof deck demo in the corridors.

Bid Category 12 Electrical

Add the following Specification Section

27 51 21 – Music Room Sound System

Add the following Clarifications:

11. In regards the fire alarm replacement, it is acceptable to install the new fire alarm panel while the existing is still operational adding to the new fire alarm panel as phases are completed. In an alarm a relay will be required to ensure the alarm is triggered from the existing panel to the new.
12. In Phase 2B this contractor is responsible for supporting existing electrical conduits and low voltage cabling as applicable during the existing roof deck removal in the corridors.
13. In regard to the modular classrooms, this contractor is responsible for all power, data, paging, access control, fire alarm, and technology shown in the bid documents. The added allowance "Modular Classrooms" is for unknowns or additional scope required to establish these classrooms not currently identified.

C. SPECIFICATION SECTION 01 21 00 ALLOWANCES

1 . 3.01 Product Allowance

Revise the following Allowances:

B.	Bid Category 01 – General Trades – Interior Temporary Partitions	$125,000
D.	Bid Category 12 – Electrical/Technology – Modular Classroom	$25,000

D. SPECIFICATION SECTION 01 32 00 SCHEDULES

1 Replace Sheet – Date Correction for Phase 3 on CM1.1 within 01 32 00c

2. Add the following Guideline Schedule:

Specification Section 01 32 00d - Guideline Schedule

11274 O/A MODULAR CLASSROOM

110'-7" x 70'-0" ACTUAL SIZE

DRAWING INDEX

DRAWING NUMBER	DESCRIPTION
#1	SPECIFICATIONS
#2	ELEVATIONS
#3	FLOOR PLAN
#4	ELECTRICAL PLAN
#5	HVAC LAYOUT
#6	CROSS SECTION
#7	CONSTRUCTION DETAILS
#8	PLUMBING SUPPLY SCHEMATICS
#9	PLUMBING DWV SCHEMATICS
#10	FOUNDATION PLAN

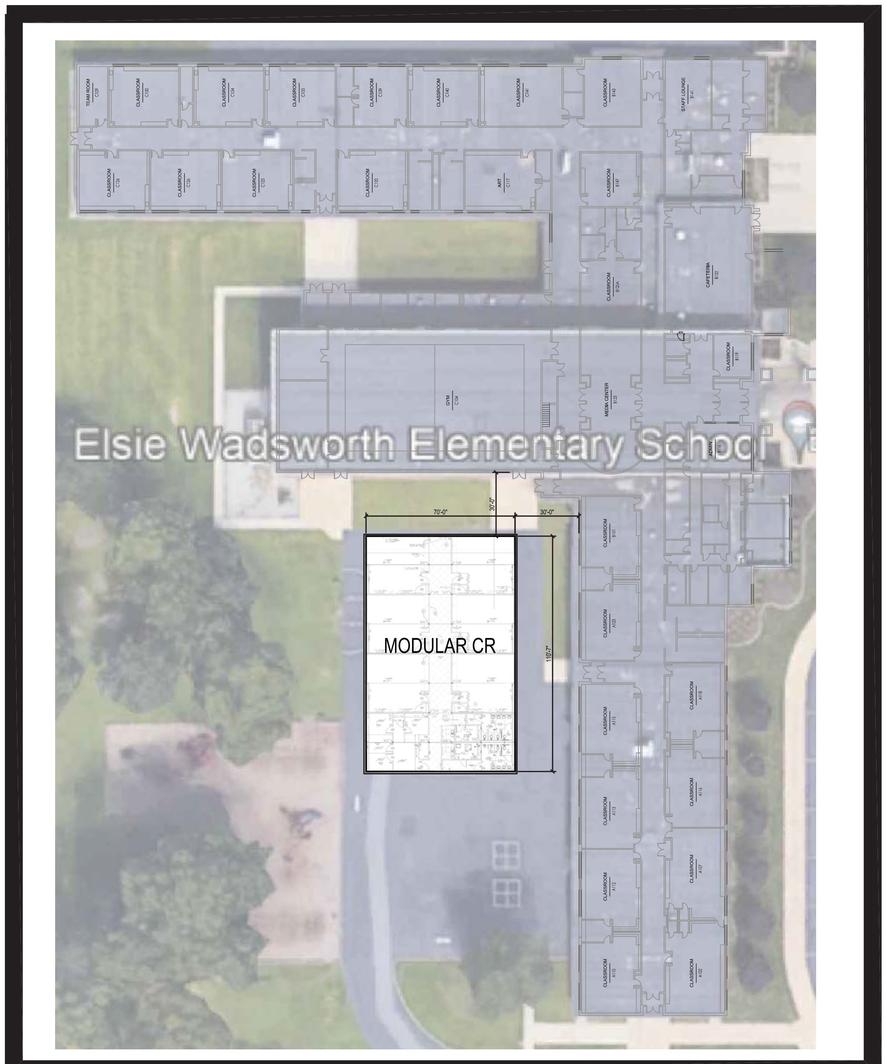
INDIANA DESIGN CODES

2012 INTERNATIONAL BUILDING CODE W/ IN AMENDMENTS
2012 INTERNATIONAL MECHANICAL CODE W/ IN AMENDMENTS
2012 INTERNATIONAL PLUMBING CODE W/ IN AMENDMENTS
2011 NATIONAL ELECTRICAL CODE W/ IN AMENDMENTS

NOTE:
THE CODES LISTED ABOVE ARE THE CODES IN EFFECT AT THE DATE OF MANUFACTURE

DESIGN LIVE LOADS

FLOOR:	50 PSF LIVE LOAD 10 PSF DEAD LOAD
CORRIDOR FLOOR:	100 PSF DEAD LOAD
ROOF:	25 PSF GROUND SNOW LOAD 20 PSF LIVE LOAD 10 PSF DEAD LOAD
CONSTRUCTION TYPE:	5B
OCCUPANCY/USE GROUP:	E
BUILDING AREA:	7,700 SQ FT.
MINIMUM BUILDING SET BACK:	GREATER THAN 10 FEET TO A COMMON OR ASSUMED PROPERTY LINE
SEISMIC ZONE:	GROUP I, CATEGORY C
MAXIMUM WIND LOAD:	115 MPH ULTIMATE WIND SPEED, CATEGORY III, EXPOSURE C
OCCUPANT LOAD:	257



THE SOLE PURPOSE OF THIS DETAIL IS SHOW THE PROPOSED LOCATION OF THE MODULAR CLASSROOM IN RELATIONSHIP TO THE EXISTING BUILDING. THE LOCAL OFFICIAL HAVING JURISDICTION SHALL REVIEW AND APPROVE THE LOCATION OF THE PROPOSED MODULAR CLASSROOM PRIOR TO INSTALLATION OF THE BUILDING.

Not in Contract
For Reference Only

SERIAL NUMBERS:
IN-039760, IN-039761, IN-039762, IN-039763, IN-039764, IN-039765, IN-039766 IN-039767

SITE LOCATION:
ELSIE WASDSWORTH ELEM. SCHOOL
600 N. JAY AVENUE
GRIFFITH, INDIANA 46319

JOB NO: 2022-030
DRAWING NO: CVR
DATE: 3/30/22
SCALE: NTS
SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410
DRAWN BY: R.M.
REV:
TITLE: COVER SHEET
MODEL: 11274 O/A CLASSROOM

SPECIFICATIONS

FRAMES

ITEM	DESCRIPTION
PERIMETER	12" I-BEAM W/ 10" I-BEAM X-MBRS @ 48" O.C. W/ 3" HANGERS & 2" TUBE SPACERS
NOTE	SHIFT AXLES,
HITCH TYPE	DETACHABLE
AXLE	5 AXLES (MODS A-F, 6 AXLES MOD "G", 7 AXLES MODULE "H")
NOTE	AXLES W/ 99 1/2" SPRING CENTERS
NOTE	AXLES TO BE UNDER SLUNG
MISCELLANEOUS	22' SISTER BEAM

FLOORS

ITEM	DESCRIPTION
BOTTOM BOARD	ROLL TYPE
FLOOR JOISTS	2X6, 16" O.C., (LONGITUDINAL), (SPF GRADE #2)
INSULATION	R-24C FIBERGLASS, UNFACED (5 1/2")
DECKING	SINGLE LAYER, 3/4" NOMINAL, PLYWOOD, T & G (SPAN RATING 24" O.C.)
DECKING	1/4" HARDIE BACKER UNDERLAYMENT @ RESTROOMS, MECH./JAN. CLOSETS, & CORRIDORS ONLY
COVERING	1/8" VINYL COMPOSITION TILE
MISCELLANEOUS	30"X30" FLOOR HATCH (BILCO, TYPE T) INSULATED & GASKETED

EXTERIOR WALLS

ITEM	DESCRIPTION
FRAMING	2X6, 16" O.C., (SPF GRADE #2)
WALL HEIGHT	9'-6 1/4" @ SIDEWALLS; 9'-7" @ ENDWALLS
NOTE	DOUBLE STUDS @ 4'-0" O.C.
TOP PLATE	DOUBLE 2X (SPF GRADE #2)
BOTTOM PLATE	SINGLE 2X (SPF GRADE #2)
MISCELLANEOUS	2X WALL TAPERS,
INSULATION	R-24C FIBERGLASS, KRAFT FACED (5 1/2")
WALL SUBSTRATE	5/8" TYPE-X GYPSUM BOARD, UNFINISHED (F.S. RATING: CLASS I OR A (0-25)), @ FIRE RATED WALL
WALL COVERING	1/2" VINYL GYPSUM, (F.S. RATING: CLASS I OR A (0-25))
WALL SHEATHING	7/16" OSB (SPAN RATING 24"/16")
WALL SHEATHING	5/8" TYPE-X SHEATHING GRADE GYPSUM, @ FIRE RATED WALL (F.S. RATING: CLASS I OR A (0-25))
BARRIER	SIMPLEX BARRICADE BUILDING WRAP
SIDING	3/8" HARDI PANEL, STUCCO, O/E W/ T-MOLD (ESR-1844 APPROVED, EXT. 16" O.C.)
SKIRTING	4'X9', 3/8" HARDI PANEL, O/E W/ 1X4 CORNERS SHIPPED LOOSE & INSTALLED BY OTHERS @ SITE (NER-405 APPROVED, EXT. 16" O.C.)
TRIM	WINDOWS, 1X4 ROUGH SAWN CEDAR
TRIM	TOP, 1X6 ROUGH SAWN CEDAR
TRIM	BOTTOM, 1X6 ROUGH SAWN CEDAR
TRIM	CORNER, 1X4 ROUGH SAWN CEDAR
TRIM	DOOR, 1X4 ROUGH SAWN CEDAR
TRIM	MATE LINE, 1X4 ROUGH SAWN CEDAR
ENTRY	RECESSED FOR DOUBLE DOOR

INTERIOR WALLS

ITEM	DESCRIPTION
FRAMING	2X4, 16" O.C., (SPF GRADE #2)
FRAMING	2X6, 16" O.C., (SPF GRADE #2), @ CORRIDORS
FALSE WALL	@ HVAC UNIT, INSULATED, GYPSUM LINED
CHASE FRAMING	2X4, 16" O.C., (SPF GRADE STUD)
WALL HEIGHT (STANDARD)	8'-8"
WALL HEIGHT (MATE LINE)	9'-6 1/4"
WALL HEIGHT (CORRIDOR WALLS)	10'-2 3/8"
TOP PLATE	DOUBLE 2X (SPF GRADE #2)
BOTTOM PLATE	SINGLE 2X (SPF GRADE #2)
INSULATION	R-11 FIBERGLASS, UNFACED (3 1/2")
WALL SUBSTRATE	5/8" TYPE-X GYPSUM BOARD, UNFINISHED (F.S. RATING: CLASS I OR A (0-25)), @ FIRE RATED AREAS
WALL COVERING	1/2" VINYL GYPSUM, (F.S. RATING: CLASS I OR A (0-25))
WALL COVERING	.030" GLASSBOARD ON 1/4" LUAN (F.S. RATING: CLASS C (76-200)) 48" HIGH AS REQUIRED BY CODE
WALL COVERING	3/4" FIRE TREATED PLYWOOD, PAINTED, @ CLOSETS

INTERIOR TRIM

ITEM	DESCRIPTION
CEILING	SUSPENDED CEILING WALL ANGLE
WALL SEAMS	2 PIECE H-MOLD, @ RESTROOMS
INSIDE CORNER	MATCHING VINYL WRAPPED BATTEN
INSIDE CORNER	J-CHANNEL, @ RESTROOMS
OUTSIDE CORNER	IN-PRO W/ METAL TRACK
WINDOW TRIM	2 1/4" IMPERIAL OAK CASING
WINDOW JAMB	5/8" IMPERIAL OAK
BASE MOLDING	4" VINYL COVE BASE
BASE MOLDING	6" VINYL COVE BASE @ RESTROOMS, MECH./JAN. CLOSETS, & TECH CLOSETS

ROOF

ITEM	DESCRIPTION
RAFTER	2X10, 16" O.C., (SPF GRADE #2)
MATE BEAM	• 4 LAYERS OF 3/4" APA PLYWOOD RIDGE BEAM, 24" HIGH, 48/24 SPAN INDEX RATING LOCATED EACH SIDE OF MATE LINE (MATELINES A/B, C/D, E/F) • 2 LAYERS OF 3/4" APA PLYWOOD RIDGE BEAM, 24" HIGH, 48/24 SPAN INDEX RATING LOCATED EACH SIDE OF MATE LINE (MATELINES G/H) • 2x10 ROOF RAIL (MATELINES B/C, D/E, F/G)
MISCELLANEOUS	2X TAPER ABOVE MATE BEAM,
INSULATION	R-38C FIBERGLASS, KRAFT FACED (10 1/4")
INSULATION	R-8.5 ACFOAM II (1 1/2") OVER SHEATHING SE
CEILING	(2) LAYERS 5/8" TYPE-X GYPSUM, @ FIRE RATED CORRIDOR
CEILING	5/8" GYPSUM (UNFINISHED) (F.S. RATING: CLASS I OR A (0-25))
CEILING	SUSPENDED 2X4 PANELS, INSTALLED @ 8'-6" AFF (F.S. RATING: CLASS I OR A (0-25))
NOTE	
SHEATHING	7/16" OSB, (SPAN RATING 24"/16")
SHEATHING	1/4" DENS-DECK OVER INSULATION
ROOFING	.060" EPDM, FULLY ADHERED
MATE LINE	.060" EPDM, FULLY ADHERED
MANSARD	30" HIGH, HARDI-PANEL, STUCCO W/ 1 1/2" OVERHANG FULL PERIMETER
MANSARD TRIM	TOP, 1X6 WOOD
MANSARD TRIM	BOTTOM, 1X4 WOOD
MANSARD TRIM	CORNER, 1X4 WOOD
MANSARD TRIM	MATE LINE, 1X4 WOOD, SHIPPED LOOSE
NOTE	MANSARD FOLLOWS CONTOUR OF ROOF LINE
NOTE	GUTTERS & DOWNSPOUTS @ SITE IF REQUIRED
MISCELLANEOUS	HARDI PANEL SOFFIT @ RECESSED ENTRIES
MISCELLANEOUS	TERMINATION BAR @ ROOF EDGE (ANSI/SPRI ES-1)
MISCELLANEOUS	GUTTER DEFLECTOR (TRE-1000)

EXTERIOR DOORS

ITEM	DESCRIPTION
NOTE	SEE DOOR & DOOR HARDWARE SCHEDULE

INTERIOR DOORS

ITEM	DESCRIPTION
NOTE	SEE DOOR & DOOR HARDWARE SCHEDULE
NOTE	ALL CLOSERS TO BE ON CLASSROOM SIDE

WINDOWS

ITEM	DESCRIPTION
48"X48"	BH, HORIZONTAL SLIDER, CLEAR IG GLASS
	W/ VINYL FRAME
	W/ LOW "E" GLASS
	W/ SCREENS
	W/ EGRESS, ONE LATCH
	W/ MINI BLINDS

ELECTRICAL

ITEM	DESCRIPTION
SERVICE	120/208 VOLT, SINGLE PHASE, 3 WIRE, 60 HZ. W/ GROUND
LOAD CENTER	150 AMP (16 SPACES) W/ MAIN, SINGLE PHASE W/ EMT CONDUIT THRU FLOOR
LOAD CENTER	225 AMP (42 SPACES) W/ MAIN, SINGLE PHASE W/ EMT CONDUIT THRU FLOOR
NOTE	ELECTRICAL PANELS TO BE KEYED ALIKE (2 KEYS PER PANEL)
NOTE	(2) 1" CONDUIT RUNS FROM TOP & BOTTOM OF ELECTRICAL PANEL FOR FUTURE ROUGH-IN
RACEWAY	MIN. #12 MC CABLE
LIGHT	DIFFUSED, LAY-IN, 4', 2 TUBE, FLUORESCENT W/ INTERNAL DISCONNECT & T-8 BULBS (49) W/ EMERGENCY BALLAST
LIGHT	DIFFUSED, LAY-IN, 4', 3 TUBE, SINGLE BALLAST FLUORESCENT W/ INTERNAL DISCONNECT & T-8 BULBS
LIGHT	DIFFUSED, LAY-IN, 4', 3 TUBE, (2) BALLAST FLUORESCENT W/ INTERNAL DISCONNECT & T-8 BULBS (46) W/ EMERGENCY BALLAST
LIGHT	EXTERIOR, LED WALL PACK W/ PHOTO EYE
LIGHT	EXIT, DUAL FACE W/ BATTERY BACK UP, LED SHIPPED LOOSE & INSTALLED @ SITE BY OTHERS
LIGHT	EMERGENCY, REMOTE HEAD, EXTERIOR, WEATHERPROOF, LED
RECEPT	20 AMP, 120 VOLT, DUPLEX, SPECIFICATION GRADE
RECEPT	20 AMP, 120 VOLT, QUADPLEX, SPECIFICATION GRADE (90) COMPUTER RECEPTS
RECEPT	20 AMP, 120 VOLT, DUPLEX, GFCI TYPE
RECEPT	20 AMP, 120 VOLT, SINGLE, FOR RECIRCULATION PUMP
RECEPT	20 AMP, 120 VOLT, DUPLEX, FLOOR, RECESSED SPECIFICATION GRADE, @ COMPUTER NETWORKS ROOM
RECEPT	20 AMP, 120 VOLT, DUPLEX, FLOOR, RECESSED, GFCI TYPE SPECIFICATION GRADE
RECEPT	20 AMP, 120 VOLT, DUPLEX, EXTERIOR WEATHER RESISTANT GFCI TYPE W/ BUBBLE COVER
RECEPT	20 AMP, 120 VOLT, DUPLEX, WEATHER RESISTANT, GFCI W/ WEATHERPROOF COVER
RECEPT	50 AMP, 120/240 VOLT, SINGLE, RANGE TYPE, NEMA 14-50R
EPT	30 AMP, 120 VOLT, SINGLE, GROUNDING TYPE, NEMA 5-30
EPT	30 AMP, 120/240 VOLT, SINGLE, DRYER RECEPT NEMA 14-30R (4 WIRE, GROUNDING)
RECCUIT	20 AMP, DEDICATED W/ SINGLE DUPLEX RECEPT SPECIFICATION GRADE
RECTCH	20 AMP, 120 VOLT, SILENT TOGGLE TYPE, SPECIFICATION GRADE
TCH	20 AMP, 120 VOLT, 3-WAY, KEYED TYPE, SPECIFICATION GRADE
CIRTCH	120 VOLT, SINGLE LEVEL OCCUPANCY SENSOR SWITCH
SWCUPANCY SENSOR	CEILING MOUNTED
SWCUPANCY SENSOR	CEILING MOUNTED @ RESTROOMS
SWI OC CELLANEOUS OC	4"X4"X2" J-BOX W/ SINGLE GANG MUD RING W/ 3/4" EMT CONDUIT TO SUSPENDED CEILING CAVITY (4) FOR CARD READER, (4) FOR EL DEVICE, (4) FOR CLOSURE
MISCELLANEOUS	4"X4"X3 1/4"J-BOX W/ SINGLF GANG MUD RING W/ 1" EMT CONDUIT TO SUSPENDED CEILING CAVITY (44) FOR WIRELESS ACCESS POINT (6) FOR TELEPHONE/DATA
MISCELLANEOUS	4"X4"X3 1/4" J-BOX W/ DOUBLE GANG MUD RING W/ 1" EMT CONDUIT TO SUSPENDED CEILING CAVITY FOR DATA
MISCELLANEOUS	4"X4"X3 1/4" J-BOX W/ SINGLE GANG MUD RING W/ 1 1/4" EMT CONDUIT TO SUSPENDED CEILING CAVITY & BELOW TO 4"X4"X3 1/4" J-BOX FOR PA SPEAKER
MISCELLANEOUS	4"X4"X3 1/4"J-BOX W/ DOUBLE GANG MUD RING W/ 1 1/4" EMT CONDUIT TO SUSPENDED CEILING CAVITY FOR DATA
MISCELLANEOUS	4"X4"X3 1/4" J-BOX W/ DOUBLE GANG MUD RING W/ 1 1/4" EMT CONDUIT TO SUSPENDED CEILING CAVITY (2) FOR TV MONITOR HIGH, (2) FOR TV MONITOR LOW (10) FOR DATA & COAX
MISCELLANEOUS	4"X4"X3 1/4" J-BOX W/ DOUBLE GANG MUD RING W/ (2) 1 1/4" EMT CONDUIT TO SUSPENDED CEILING CAVITY FOR PROJECTOR
MISCELLANEOUS	(2) 4"X4"X3 1/4" J-BOX W/ NO MUD RING W/ 2" EMT CONDUIT TO SUSPENDED CEILING CAVITY FOR NETWORKS CABINET
MISCELLANEOUS	2" CONDUIT ABOVE SUSP. CEILING FROM ROOMS TO CORRIDOR

PLUMBING

ITEM	DESCRIPTION
SUPPLY LINES	COPPER, HARD TYPE "L"
SUPPLY LINES	INSULATED ABOVE SUSPENDED CEILING
WASTE LINES	ABS OR PVC SCHEDULE 40
WATER CLOSET	AMERICAN STANDARD MADERA 3451.001 (ASME A112.19.2) SLOAN ROYAL III-1.28 FLUSH VALVE W/ SEAT (1955 SSFR) (6) W/ LEFT SIDE HANDLE & (10) W/ RIGHT SIDE HANDLE
WATER CLOSET	AMERICAN STANDARD MADERA 3461.001 (HANDICAP) (ASME A112.19.2) SLOAN ROYAL III-1.28 FLUSH VALVE W/ SEAT (1955 SSFR) (5) W/ LEFT SIDE HANDLE & (5) W/ RIGHT SIDE HANDLE
URINAL	AMERICAN STANDARD WASHBROOK 6590.001 (ASME A112.19.2) SLOAN ROYAL FLUSH VALVE 186-O.S.
LAVATORY	AMERICAN STANDARD LUCERNE 0355.012 (ASME A112.19.2) CHICAGO FAUCET 802-V1000ABCF
SINK	SERVICE, 24"X24", MOLDED STONE MOP BASIN (MS-2424) (ANSI Z124.6) Z8431 M1-RC: FAUCET W/ WALL BRACE, PAIL HOOK & 6" SPOUT MS2437 MOP HANGER, MS2405 HOSE & HOSE HOLDER, 2 PC. 24" S/S WALL GUARD, 24X24
DRINKING FOUNTAIN	COOLED, BARRIER FREE, BI-LEVEL (ELKAY, EZS8L) (ASME A112.19.3)
	/
WATER HEATER	30 GALLON, 240V ELECTRIC W/ T&P VALVE (ELSF-30)
MISCELLANEOUS	PLASTIC PAN FOR WATER HEATER
MISCELLANEOUS	GUARDIAN TEMPERING VALVE (LFUSE-B)
NOTE	WATER TEMPERING DEVICES & SERVING HANDWASHING SINKS SHALL COMPLY W/ ASSE 1070
MISCELLANEOUS	BACKFLOW PREVENTORS
MISCELLANEOUS	BALANCING VALVES
MISCELLANEOUS	RECIRCULATION PUMP, 120V, (GRUNDFOS #UPS 15-55)) W/ UNIONS & 6-15 PLUG
NOTE	CHROME RISERS & SHUT-OFF VALVES
MISCELLANEOUS	EXPANSION TANK, 2.1 GAL.
NOTE	RECIRCULATION LINES TO HAVE 1" INSULATION
FLOOR DRAIN	PVC, 3" W/ TRAP PRIMER & GUARD
MISCELLANEOUS	TRAP PRIMERS (PRIME PERFECT/SIOUX CHIEF #695-01)
MISCELLANEOUS	TAPPED P-TRAP ADAPTER (PRECISION PLUMBING PRODUCTS PPA-3P625)
MODESTY PARTITION	STEEL W/ DOOR, STANDARD
MODESTY PARTITION	STEEL W/ DOOR, HANDICAP
URINAL SCREEN	STEEL WALL HUNG, 24" DEEP
ACCESSORIES	GRAB BARS, SET, STAINLESS STEEL (1) 36", (1) 42", & (1) 18" VERTICAL
ACCESSORIES	MIRROR, 18"X36" W/ STAINLESS STEEL FRAME, B-165-1836 O/E
ACCESSORIES	WASHER BOX FOR CLOTHES WASHER
NOTE	TRAP WRAP ON EXPOSED LINES

HEATING-VENTILATION-AIR CONDITIONING (HVAC)

ITEM	DESCRIPTION
HEAT/COOL	B30, WALL HUNG, 2 1/2 TON COOLING W/ 15 KW HEAT (11.25 KW @ 208V) & CRV
HEAT/COOL	B36, WALL HUNG, 3 TON COOLING W/ 15 KW HEAT (11.25 KW @ 208V) & CRV
HEAT/COOL	B42, WALL HUNG, 3 1/2 TON COOLING W/ 20 KW HEAT (15 KW @ 208V) & CRV
HEAT/COOL	B48, WALL HUNG, 4 TON COOLING W/ 20 KW HEAT (15 KW @ 208V) & CRV
HEAT/COOL	B60, WALL HUNG, 5 TON COOLING W/ 20 KW HEAT (15 KW @ 208V) & CRV
THERMOSTAT	DIGITAL PROGRAMMABLE AUTO CHANGE OVER
DUCTWORK	FIBERGLASS, CEILING SUPPLY (R-4.3) CLASS 1
DUCTWORK	INSULATED GALVANIZED STEEL, CEILING SUPPLY, @ CORRIDORS
DUCTWORK	DUCT STACK FOR CRAWL SUPPLY
NOTE	MAXIMUM FLAME SPREAD INDEX OF 25 MAXIMUM SMOKE DEVELOPED INDEX OF 50
DUCTWORK	FIBERGLASS, CEILING RETURN (R-4.3) CLASS 1
DUCTWORK	GALVANIZED STEEL, CEILING RETURN
NOTE	MAXIMUM FLAME SPREAD INDEX OF 25 MAXIMUM SMOKE DEVELOPED INDEX OF 50
SUPPLY AIR DIFFUSER	24"X24" LAY-IN W/ ADJUSTABLE DAMPER
TAKE OFF	STRAIGHT FOR FLEX DUCT W/ ADJUSTABLE DAMPER
TAKE OFF	STRAIGHT FOR HARD DUCT W/ ADJUSTABLE DAMPER @ CRAWL SPACE SUPPLY
TAKE OFF	ANGLED (AT62WD-8) FOR HARD DUCT W/ ADJUSTABLE DAMPER @ UNIT KM CRAWL SPACE SUPPLY
FIRE DAMPER	DUCT TYPE, VERTICAL THRU WALL, TYPE B (BLADES OUT OF AIRSTREAM) W/ BREAKAWAY CONNECTIONS FROM DAMPER TO DUCT
FIRE/SMOKE DAMPER	DUCT TYPE, THRU WALL, CLASS II LEAKAGE RATING W/ INTEGRAL SLEEVE, 120V EXTERNAL ACTUATOR, & BREAKAWAY CONNECTIONS FROM DAMPER TO DUCT
NOTE	THE FIRE DAMPERS FOR THE HVAC DUCTS SHALL COMPLY W/ UL 555 & THAT FIRE/SMOKE DAMPERS SHALL COMPLY W/ UL 555 & UL 555S
NOTE	FIRE & FIRE/SMOKE DAMPER REQUIRED FIRE RATING OF 1.5 HRS

HEATING-VENTILATION-AIR CONDITIONING (HVAC) CONTINUED

ITEM	DESCRIPTION
NOTE	FIRE & FIRE/SMOKE DAMPER ACTUATION & SMOKE DETECTION PER OBC 716.3.3.1 & 716.3.3.2(4)
NOTE	SMOKE DAMPER TO BE WIRED TO FIRE ALARM SYSTEM @ SITE BY OTHERS
MISCELLANEOUS	DUCT ACCESS DOOR, 12"X12" W/ 1/2" MIN. HIGH IDENTIFICATION LETTERS
RETURN AIR GRILLE	24"X24" LAY-IN
TAKE OFF	STRAIGHT FOR FLEX DUCT
TAKE OFF	STRAIGHT FOR HARD DUCT @ CRAWL SPACE SUPPLY
RETURN AIR GRILLE	30"X16" THRU WALL @ UNIT W/ FILTER GRILLE
EXHAUST FAN	100 CFM STANDARD CEILING FAN
EXHAUST FAN	200 CFM STANDARD CEILING FAN
EXHAUST FAN	300 CFM STANDARD CEILING FAN
MISCELLANEOUS	IN-LINE EXHAUST FAN (GRAINGER #4YM44) @ CRAWL SPACE VENT W/ SPEED CONTROLLER,
MISCELLANEOUS	ADJUSTABLE DAMPER, @ CRAWL SPACE SUPPLY RE: DTL. "E" SHT. "D5"
NOTE	CONDUIT & WIRE FOR OPPOSITE END HVAC
MISCELLANEOUS	DUCTWORK, FLEXIBLE AIR DUCT & CONNECTORS HAVE BEEN SIZED PER ASHRAE HANDBOOK OF FUNDAMENTALS

SPECIAL EQUIPMENT

ITEM	DESCRIPTION
FIRE EXTINGUISHER	10#, A:B:C, DRY CHEMICAL
FIRE EXTINGUISHER WALL CABINET	#FE, FIRE RATED, METAL, SEMI RECESSED, 10#
MISCELLANEOUS	DOUBLE GANG ACCESS BOX W/ 3/4" EMT CONDUIT TO SUSPENDED CEILING CAVITY (10) FOR FIRE ALARM PULL STATIONS W/ SINGLE MUD RING (73) FOR FIRE ALARM AUDIOS W/ NO MUD RING (10) FOR FIRE ALARM VISUALS W/ NO MUD RING (8) FOR FIRE ALARM SMOKE DETECTORS W/ DOUBLE MUD RING

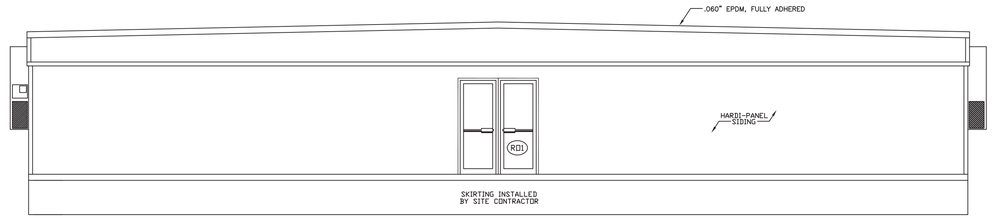
Not in Contract
For Reference Only

JOB NO: 2022-030
DRAWING NO: 1
DATE: 3/30/22
SCALE: NTS

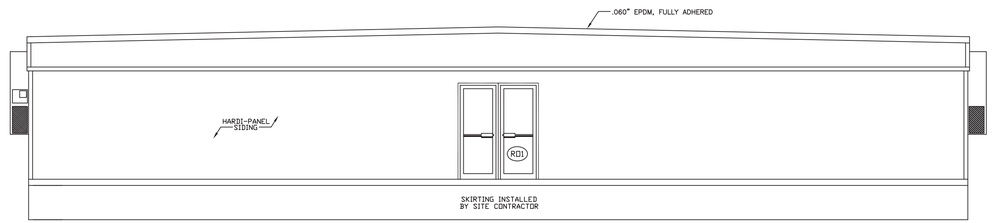
SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

DRAWN BY: R.M.
REV:

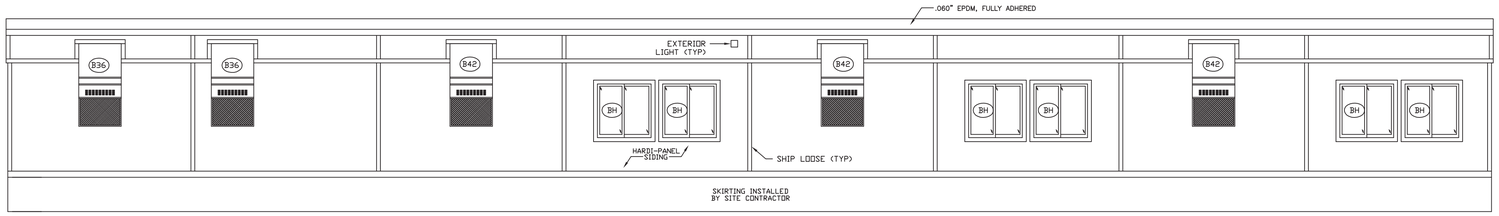
TITLE: SPECIFICATIONS
MODEL: 11274 O/A CLASSROOM



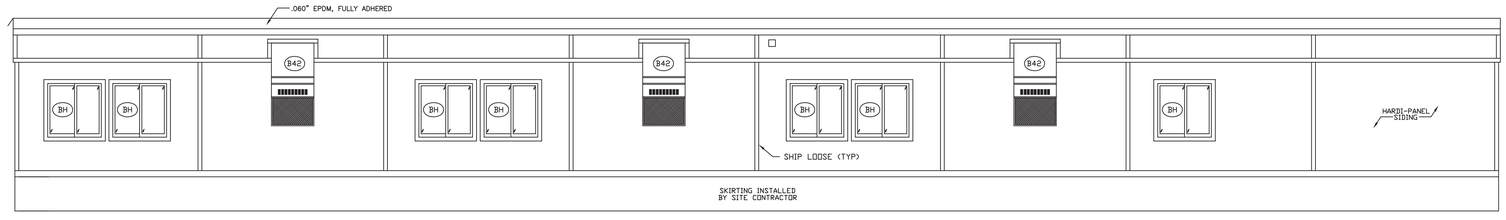
CURBSIDE ELEVATION
SCALE: 1/4"=1'-0"



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



HITCH END ELEVATION
SCALE: 1/8"=1'-0"



REAR END ELEVATION
SCALE: 1/8"=1'-0"

MARK	DESCRIPTION
FE	RECESSED FIRE EXTINGUISHER CABINET, RATED R.O. 12 1/2"x26 1/8", 36" AFF (UNLESS NOTED)
12 x 4	30"x16" RETURN AIR FILTER GRILLE R.O. 30 3/8"x16 3/8", @ UNIT
FD1	16"x10" THRU WALL FIRE/SMOKE DAMPER R.O. 19 3/4"x14 3/4", 3" DN
FD2	16"x10" THRU WALL FIRE DAMPER R.O. 19 3/4"x14 3/4", 3" DN
BH	48"x48" HORIZONTAL SLIDER WINDOW R.O. 48 1/4"x48 1/4", 30" AFF
RD1	ROUGH OPENING FOR DOOR R.O. 76"x86 1/4"
FD1	120"x84" FINISHED OPENING FOR EXTERIOR WALL R.O. 122 1/4"x84 1/2"
303	72"x84" EXT. STEEL DOOR w/ STL. JAMB (CENTER MULLION) R.O. 76 3/4"x86 1/4"
601	36"x84" INT. IMPERIAL OAK S.C. DOOR, (20 MIN), STL. JAMB R.O. 38"x85 1/4"
605	36"x84" INT. IMPERIAL OAK S.C. DOOR w/ STEEL JAMB R.O. 38"x85"
989	72"x84" INTERIOR SLIDING DOOR R.O. 74"x85"
999	36"x84" INT. IMPERIAL OAK S.C. DOOR, (45 MIN), STL. JAMB R.O. 38"x85"
999A	MATE LINE OPENING FOR INTERIOR DOOR R.O. 46"x85"
B30	2 1/2 TON BARD CENTRAL HVAC UNIT R.O. 30 3/8"x16 1/2", 15" DN
B36	3 TON BARD CENTRAL HVAC UNIT R.O. 30 3/8"x16 1/2", 15" DN
B42	3 1/2 TON BARD CENTRAL HVAC UNIT R.O. 32 3/8"x18", 27 1/2" DN
B48	4 TON BARD CENTRAL HVAC UNIT R.O. 32 3/8"x18", 27 1/2" DN
B60	5 TON BARD CENTRAL HVAC UNIT R.O. 32 3/8"x18", 27 1/2" DN

OPENING SCHEDULE

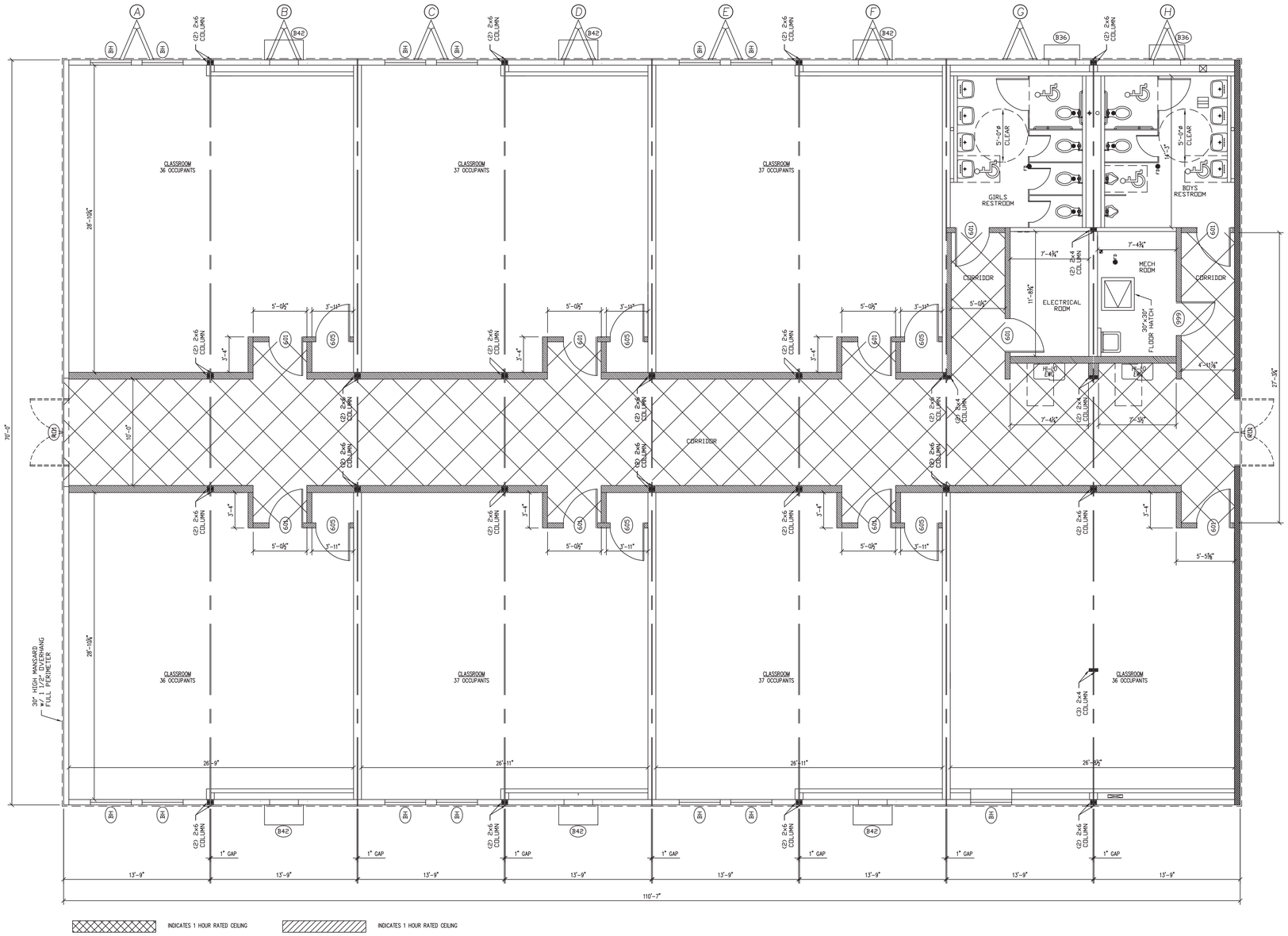
Not in Contract
For Reference Only

JOB NO: 2022-030
DRAWING NO: 2
DATE: 3/30/22
SCALE: 3/16"=1'-0"

SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

DRAWN BY: R.M.
REV:

TITLE: ELEVATIONS
MODEL: 11274 O/A CLASSROOM



FE	RECESSED FIRE EXTINGUISHER CABINET, RATED
	R.O. 12 1/2"x26 1/8", 36" AFF (UNLESS NOTED)
RG 16"x16"	30"x16" RETURN AIR FILTER GRILLE
	R.O. 30 3/8"x16 3/8", @ UNIT
FD1	16"x10" THRU WALL FIRE/SMOKE DAMPER
	R.O. 19 3/4"x14 3/4", 3" DN
FD2	16"x10" THRU WALL FIRE DAMPER
	R.O. 19 3/4"x14 3/4", 3" DN
BH	48"x48" HORIZONTAL SLIDER WINDOW
	R.O. 48 1/4"x48 1/4", 30" AFF
RO1	ROUGH OPENING FOR DOOR
	R.O. 76"x86 1/4"
FO1	120"x84" FINISHED OPENING FOR EXTERIOR WALL
	R.O. 122 1/4"x84 1/2"
303	72"x84" EXT. STEEL DOOR w/ STL. JAMB (CENTER MULLION)
	R.O. 76 3/4"x86 1/4"
601	36"x84" INT. IMPERIAL OAK S.C. DOOR, (20 MIN), STL. JAMB
	R.O. 38"x85 1/4"
605	36"x84" INT. IMPERIAL OAK S.C. DOOR w/ STEEL JAMB
	R.O. 38"x85"
989	72"x84" INTERIOR SLIDING DOOR
	R.O. 74"x85"
999	36"x84" INT. IMPERIAL OAK S.C. DOOR, (45 MIN), STL. JAMB
	R.O. 38"x85"
999A	MATE LINE OPENING FOR INTERIOR DOOR
	R.O. 46"x89"
B30	2 1/2 TON BARD CENTRAL HVAC UNIT
	R.O. 30 3/8"x16 1/2", 15" DN
B36	3 TON BARD CENTRAL HVAC UNIT
	R.O. 30 3/8"x16 1/2", 15" DN
B42	3 1/2 TON BARD CENTRAL HVAC UNIT
	R.O. 32 3/8"x18", 27 1/2" DN
B48	4 TON BARD CENTRAL HVAC UNIT
	R.O. 32 3/8"x18", 27 1/2" DN
B60	5 TON BARD CENTRAL HVAC UNIT
	R.O. 32 3/8"x18", 27 1/2" DN
MARK	DESCRIPTION

OPENING SCHEDULE

Not in Contract
For Reference Only

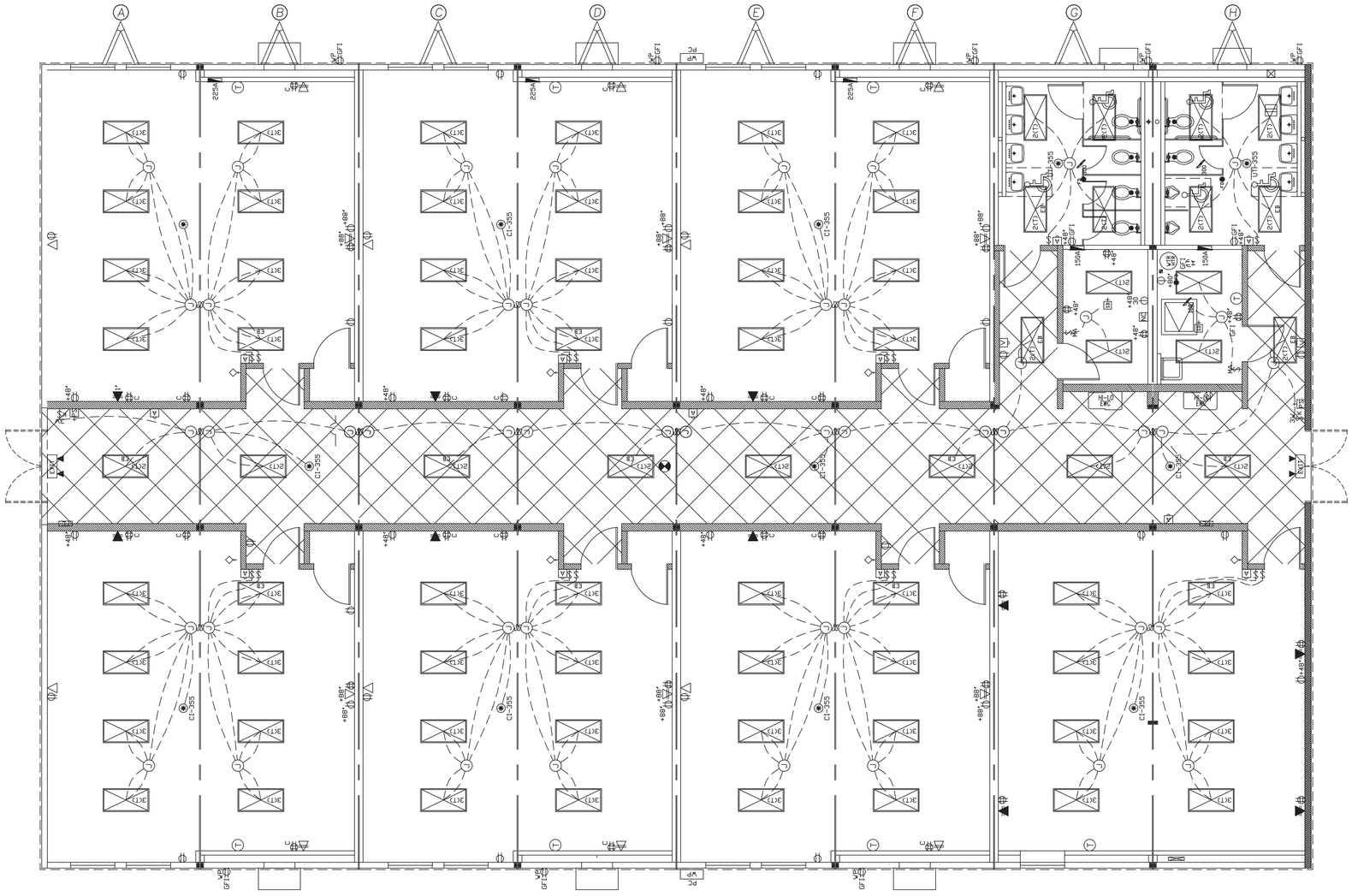
SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

JOB NO: 2022-030
DRAWING NO: 3
DATE: 3/30/22
SCALE: 3/16"=1'-0"
DRAWN BY: R.M.
REV:
TITLE: FLOOR PLAN
MODEL: 11274 O/A CLASSROOM

SYMBOL	DESCRIPTION
V	J-BOX w/ CONDUIT FOR FIRE ALARM SIGNAL VISUAL, 82" AFF (UNLESS NOTED)
A	J-BOX w/ CONDUIT FOR FIRE ALARM SIGNAL AUDIO, 82" AFF (UNLESS NOTED)
	SINGLE GANG POWERED J-BOX w/ CONDUIT 108" AFF (UNLESS NOTED)
AC	SINGLE GANG J-BOX w/ 3/4" CONDUIT FOR ACTUATOR, 48" AFF (UNLESS NOTED)
CR	SINGLE GANG J-BOX w/ 3/4" CONDUIT FOR CARD READER, 42" AFF (UNLESS NOTED)
+96" TV	J-BOX w/ 1 1/4" CONDUIT FOR TV OUTLET HIGH
+18" TV	J-BOX w/ 1 1/4" CONDUIT FOR TV OUTLET LOW
	J-BOX w/ 1" CONDUIT FOR DATA & TELEPHONE, 48" AFF (UNLESS NOTED)
1"	J-BOX w/ 1" CONDUIT FOR DATA, 18" AFF (UNLESS NOTED)
1 1/4"	J-BOX w/ 1 1/4" CONDUIT FOR DATA, 18" AFF (UNLESS NOTED)
NC	J-BOX w/ (2) 2" CONDUIT FOR NETWORKS CABINET, 24" AFF
	J-BOX w/ 1" CONDUIT FOR WAP, 108" AFF (UNLESS NOTED)
	J-BOX w/ (2) 1 1/4" CONDUIT FOR PROJECTOR, 18" AFF (UNLESS NOTED)
DC	J-BOX w/ 1 1/4" CONDUIT FOR DATA & COAX, 18" AFF (UNLESS NOTED)
	J-BOX w/ 1 1/4" CONDUIT FOR PA SPEAKER, 48" AFF (UNLESS NOTED)
J	J-BOX FOR TROFFER LIGHT CONNECTION
SD J	J-BOX FOR MATE LINE CROSSOVER ABOVE SUSPENDED CEILING
	OCCUPANCY SENSOR, CEILING MOUNTED (MODEL AS NOTED)
$	20 AMP, SWITCH 42" AFF (UNLESS NOTED)
MA $	20 AMP, MOTION ACTIVATED SWITCH 42" AFF (UNLESS NOTED)
3W $K	20 AMP, KEYED SWITCH, 3-WAY 42" AFF (UNLESS NOTED)
FLR GFI	20 AMP, GFI DUPLEX RECEPT IN FLOOR
	240 VOLT, 50 AMP, SINGLE RECEPT 0" AFF (UNLESS NOTED)
30	30 AMP, SINGLE RECEPT, 18" AFF (UNLESS NOTED)
	20 AMP, SINGLE RECEPT FOR RECIRC. PUMP 80" AFF (UNLESS NOTED)
GFI	20 AMP, GFI RECEPT (BELOW FLOOR)
GFI WP	20 AMP, DUPLEX GFI RECEPT WEATHERPROOF, 24" AFF (UNLESS NOTED)
	20 AMP, QUADPLEX RECEPT 18" AFF (UNLESS NOTED)
C	20 AMP, QUADPLEX COMPUTER RECEPT 18" AFF (UNLESS NOTED)
	20 AMP, DUPLEX RECEPT 18" AFF (UNLESS NOTED)
GFI	20 AMP, DUPLEX GFI RECEPT 42" AFF (UNLESS NOTED)
WP	SINGLE HEAD REMOTE EMERGENCY LIGHT WEATHERPROOF, 80" AFF
EXIT	DUAL HEAD EMER. LIGHT w/ LIGHTED EXIT SIGN & BATTERY PACK, 88" AFF (UN. NOTED)
	DOUBLE FACE EXIT SIGN w/ BATTERY BACK UP, CEILING MOUNT (UNLESS NOTED)
WP	LED WALL PACK EXTERIOR LIGHT W/ PC WEATHERPROOF LIGHT, 111" AFF
2(T)	2'x4' (2) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER
2(T) EB	2'x4' (2) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER & EMERGENCY BALLAST
3(T)	2'x4' (3) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER
3(T) EB	2'x4' (3) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER & EMERGENCY BALLAST
	LOAD CENTER

SYMBOL	DESCRIPTION
PS	J-BOX w/ CONDUIT FOR FIRE ALARM PULL STATION, 42" AFF (UNLESS NOTED)
SD	J-BOX w/ CONDUIT FOR SMOKE DETECTOR (CEILING MOUNTED)
T	THERMOSTAT, 42" AFF
	2'x2' SUPPLY AIR GRILLE IN CEILING GRID
	2'x2' RETURN AIR GRILLE IN CEILING GRID
	RETURN TAKE OFF
	SUPPLY TAKE OFF w/ DAMPER
	12"x12" DUCT ACCESS DOOR
	CEILING EXHAUST FAN (CFM AS NOTED)
	WATER INLET LOCATION
	PLUMBING VENT THRU ROOF
	MAIN DRAIN LOCATION
FD	FLOOR DRAIN
WTR HTR	WATER HEATER
	WASHER BOX @ 42" AFF (UNLESS NOTED)

DRAWING LEGEND



ELECTRICAL

1. ALL RECEPTACLES TO BE GROUNDING TYPE.
2. ALL WIRING TO BE PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE, TYPE NM ROMEX (CU) W/ GROUND.
3. MAIN PANEL TO BE MARKED "SUITABLE FOR USE AS SERVICE EQUIPMENT", AND BE EQUIPPED W/ BREAKER/FUSE TYPE OVERCURRENT PROTECTION.
4. PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
5. DISCONNECTING MEANS WITHIN SIGHT REQUIRED FOR ALL MOTORS.
6. WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS, RECEPTACLES AND DISCONNECTS.
7. PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT.
8. ALL FLUORESCENT FIXTURES REQUIRE THERMAL PRO- TECTION AND PROPER CLEARANCES FROM INSULATION, ALSO APPLICABLE FOR INCANDESCENT FIXTURES.
9. COMBINATION EXHAUST FAN/LIGHT AND ALL RECESSED INCANDESCENT FIXTURES TO BE WITH THERMAL PROTECTION.
10. EXIT LIGHTS (IF ELECTRIC) MUST BE FED FROM AN APPROVED EMERGENCY SERVICE CONNECTED AHEAD OF, BUT NOT WITHIN MAIN SERVICE DISCONNECTION MEANS ENCLOSURE, AND INSTALLED AS PER SERVICE REQUIREMENTS, OR BE BATTERY BACKUP TYPE UNITS.
11. SERVICE CONDUCTORS, LOCATED WITHIN THE PERIMETER OF THE BUILDING, SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 230-6, PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE.
12. MAXIMUM 15 (2) TUBE FLOURESCENT LIGHTS ON 15A CIRCUIT, MAXIMUM 10 RECEPTS ON 15A CIRCUIT, MAXIMUM 7 (4) TUBE FLOURESCENT LIGHTS ON 15A CIRCUIT.
13. MAXIMUM 20 (2) TUBE FLOURESCENT LIGHTS ON 20A CIRCUIT, MAXIMUM 13 RECEPTS ON 20A CIRCUIT, MAXIMUM 10 (4) TUBE FLOURESCENT LIGHTS ON 20A CIRCUIT.

Not in Contract
For Reference Only

SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

JOB NO: 2022-030
DRAWING NO: 4
DATE: 3/30/22
SCALE: 3/16"=1'-0"
DRAWN BY: R.M.
REV:
TITLE: ELECTRICAL PLAN
MODEL: 11274 O/A CLASSROOM

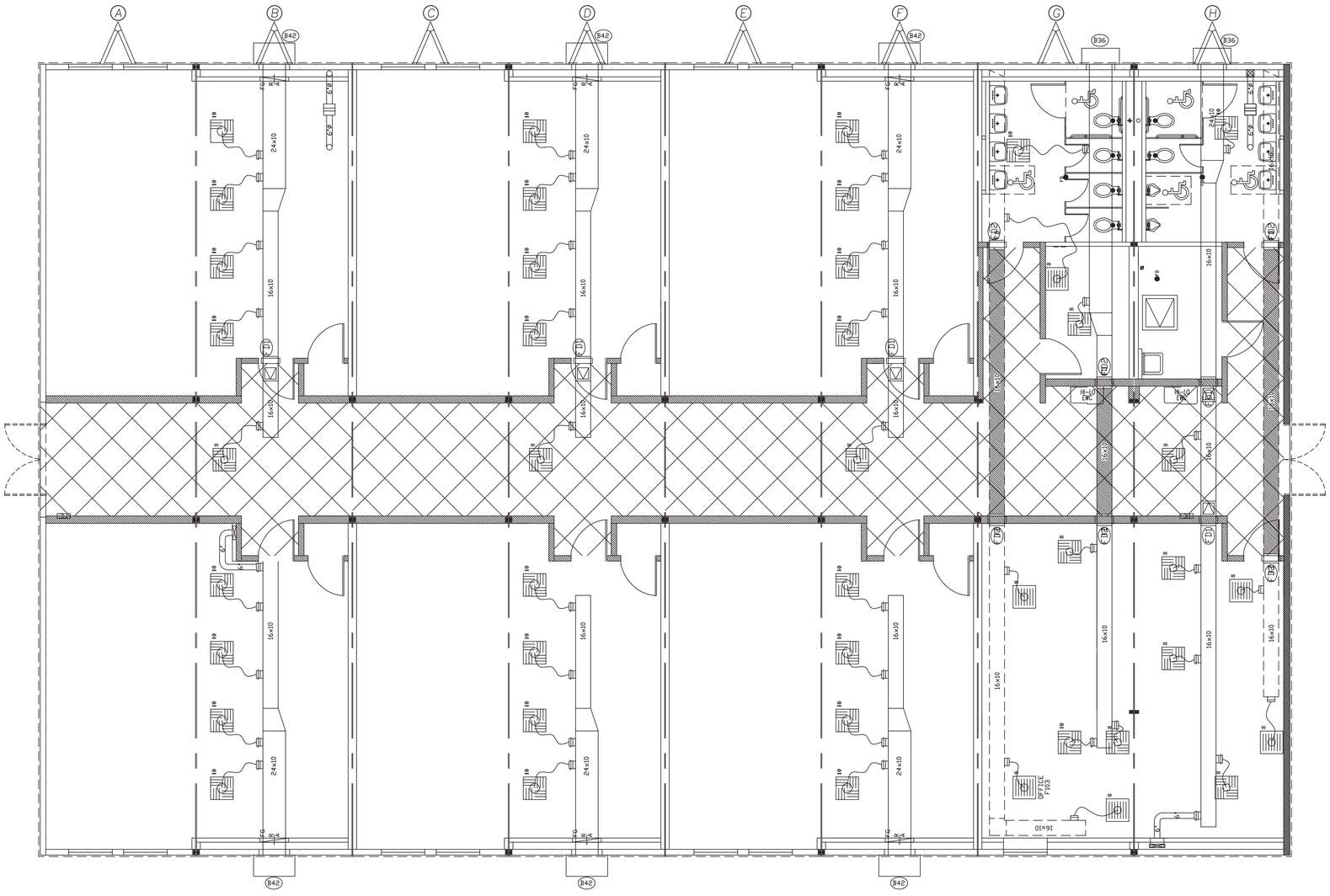
SYMBOL	DESCRIPTION
V	J-BOX w/ CONDUIT FOR FIRE ALARM SIGNAL VISUAL, 82" AFF (UNLESS NOTED)
A	J-BOX w/ CONDUIT FOR FIRE ALARM SIGNAL AUDIO, 82" AFF (UNLESS NOTED)
	SINGLE GANG POWERED J-BOX w/ CONDUIT 108" AFF (UNLESS NOTED)
AC	SINGLE GANG J-BOX w/ 3/4" CONDUIT FOR ACTUATOR, 48" AFF (UNLESS NOTED)
CR	SINGLE GANG J-BOX w/ 3/4" CONDUIT FOR CARD READER, 42" AFF (UNLESS NOTED)
+96" TV	J-BOX w/ 1 1/4" CONDUIT FOR TV OUTLET HIGH
+18" TV	J-BOX w/ 1 1/4" CONDUIT FOR TV OUTLET LOW
	J-BOX w/ 1" CONDUIT FOR DATA & TELEPHONE, 48" AFF (UNLESS NOTED)
1"	J-BOX w/ 1" CONDUIT FOR DATA, 18" AFF (UNLESS NOTED)
1 1/4"	J-BOX w/ 1 1/4" CONDUIT FOR DATA, 18" AFF (UNLESS NOTED)
NC	J-BOX w/ (2) 2" CONDUIT FOR NETWORKS CABINET, 24" AFF
	J-BOX w/ 1" CONDUIT FOR WAP, 108" AFF (UNLESS NOTED)
	J-BOX w/ (2) 1 1/4" CONDUIT FOR PROJECTOR, 18" AFF (UNLESS NOTED)
DC	J-BOX w/ 1 1/4" CONDUIT FOR DATA & COAX, 18" AFF (UNLESS NOTED)
	J-BOX w/ 1 1/4" CONDUIT FOR PA SPEAKER, 48" AFF (UNLESS NOTED)
J	J-BOX FOR TROFFER LIGHT CONNECTION
J	J-BOX FOR MATE LINE CROSSOVER ABOVE SUSPENDED CEILING
	OCCUPANCY SENSOR, CEILING MOUNTED (MODEL AS NOTED)
$	20 AMP, SWITCH 42" AFF (UNLESS NOTED)
MA $	20 AMP, MOTION ACTIVATED SWITCH 42" AFF (UNLESS NOTED)
3W $K	20 AMP, KEYED SWITCH, 3-WAY 42" AFF (UNLESS NOTED)
FLR GFI	20 AMP, GFI DUPLEX RECEPT IN FLOOR
	240 VOLT, 50 AMP, SINGLE RECEPT 0" AFF (UNLESS NOTED)
30	30 AMP, SINGLE RECEPT, 18" AFF (UNLESS NOTED)
	20 AMP, SINGLE RECEPT FOR RECIRC. PUMP 80" AFF (UNLESS NOTED)
GFI	20 AMP, GFI RECEPT (BELOW FLOOR)
GFI WP	20 AMP, DUPLEX GFI RECEPT WEATHERPROOF, 24" AFF (UNLESS NOTED)
	20 AMP, QUADPLEX RECEPT 18" AFF (UNLESS NOTED)
C	20 AMP, QUADPLEX COMPUTER RECEPT 18" AFF (UNLESS NOTED)
	20 AMP, DUPLEX RECEPT 18" AFF (UNLESS NOTED)
GFI	20 AMP, DUPLEX GFI RECEPT 42" AFF (UNLESS NOTED)
WP	SINGLE HEAD REMOTE EMERGENCY LIGHT WEATHERPROOF, 80" AFF
EXIT	DUAL HEAD EMER. LIGHT w/ LIGHTED EXIT SIGN & BATTERY PACK, 88" AFF (UN. NOTED)
	DOUBLE FACE EXIT SIGN w/ BATTERY BACK UP, CEILING MOUNT (UNLESS NOTED)
WP	LED WALL PACK EXTERIOR LIGHT W/ PC WEATHERPROOF LIGHT, 111" AFF
2(T)	2'x4' (2) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER
2(T) EB	2'x4' (2) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER & EMERGENCY BALLAST
3(T)	2'x4' (3) TUBE FLUORESCENT TROFFER TROFFER LIGHT w/ DIFFUSER
3(T) EB	2'x4' (3) TUBE FLUORESCENT TROFFER LIGHT w/ DIFFUSER & EMERGENCY BALLAST
	LOAD CENTER

SYMBOL	DESCRIPTION
PS	J-BOX w/ CONDUIT FOR FIRE ALARM PULL STATION, 42" AFF (UNLESS NOTED)
SD	J-BOX w/ CONDUIT FOR SMOKE DETECTOR (CEILING MOUNTED)
T	THERMOSTAT, 42" AFF
	2'x2' SUPPLY AIR GRILLE IN CEILING GRID
	2'x2' RETURN AIR GRILLE IN CEILING GRID
	RETURN TAKE OFF
	SUPPLY TAKE OFF w/ DAMPER
	12"x12" DUCT ACCESS DOOR
	CEILING EXHAUST FAN (CFM AS NOTED)
	WATER INLET LOCATION
	PLUMBING VENT THRU ROOF
	MAIN DRAIN LOCATION
FD	FLOOR DRAIN
WTR HTR	WATER HEATER
	WASHER BOX @ 42" AFF (UNLESS NOTED)

DRAWING LEGEND

MARK	DESCRIPTION
FE	RECESSED FIRE EXTINGUISHER CABINET, RATED R.O. 12 1/2"x26 1/8", 36" AFF (UNLESS NOTED)
LG or RG	30"x16" RETURN AIR FILTER GRILLE R.O. 30 3/8"x16 3/8", @ UNIT
FD1	16"x10" THRU WALL FIRE/SMOKE DAMPER R.O. 19 3/4"x14 3/4", 3" DN
FD2	16"x10" THRU WALL FIRE DAMPER R.O. 19 3/4"x14 3/4", 3" DN
BH	48"x48" HORIZONTAL SLIDER WINDOW R.O. 48 1/4"x48 1/4", 30" AFF
RO1	ROUGH OPENING FOR DOOR R.O. 76"x86 1/4"
FO1	120"x84" FINISHED OPENING FOR EXTERIOR WALL R.O. 122 1/4"x84 1/2"
303	72"x84" EXT. STEEL DOOR w/ STL. JAMB (CENTER MULLION) R.O. 76 3/4"x86 1/4"
601	36"x84" INT. IMPERIAL OAK S.C. DOOR, (20 MIN), STL. JAMB R.O. 38"x85 1/4"
605	36"x84" INT. IMPERIAL OAK S.C. DOOR w/ STEEL JAMB R.O. 38"x85"
989	72"x84" INTERIOR SLIDING DOOR R.O. 74"x85"
999	36"x84" INT. IMPERIAL OAK S.C. DOOR, (45 MIN), STL. JAMB R.O. 38"x85"
999A	MATE LINE OPENING FOR INTERIOR DOOR R.O. 46"x89"
B30	2 1/2 TON BARD CENTRAL HVAC UNIT R.O. 30 3/8"x16 1/2", 15" DN
B36	3 TON BARD CENTRAL HVAC UNIT R.O. 30 3/8"x16 1/2", 15" DN
B42	3 1/2 TON BARD CENTRAL HVAC UNIT R.O. 32 3/8"x18", 27 1/2" DN
B48	4 TON BARD CENTRAL HVAC UNIT R.O. 32 3/8"x18", 27 1/2" DN
B60	5 TON BARD CENTRAL HVAC UNIT R.O. 32 3/8"x18", 27 1/2" DN

OPENING SCHEDULE



Not in Contract
For Reference Only

MECHANICAL

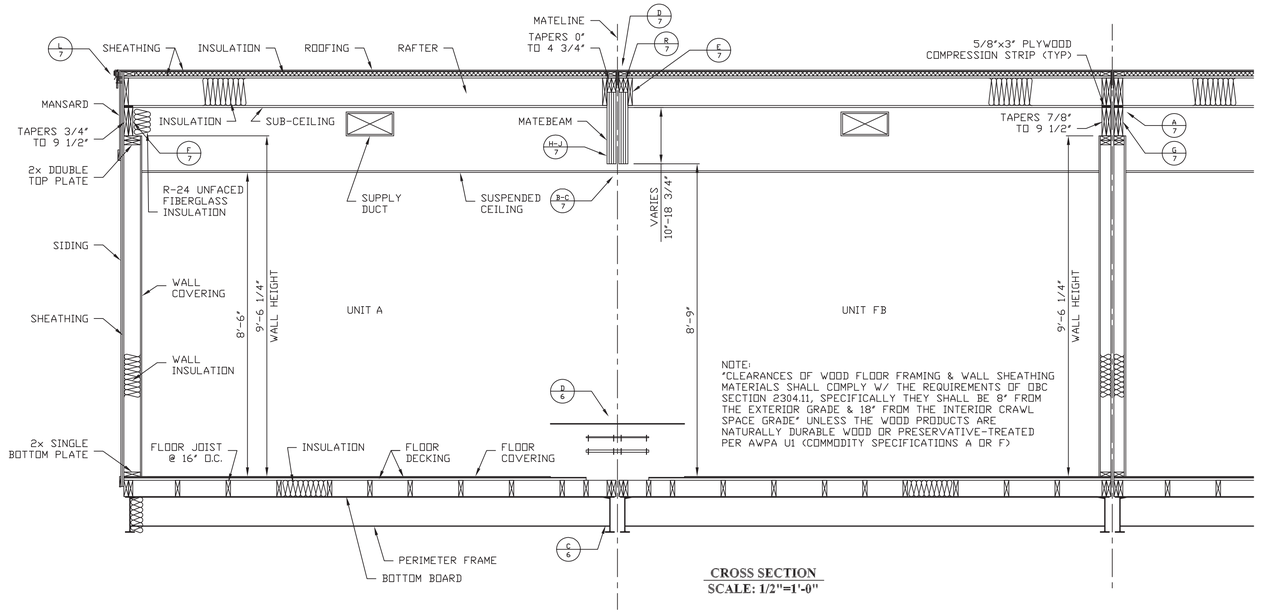
1. EXHAUST FANS AND VENTING EQUIPMENT TO BE DUCTED TO EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
2. MECHANICAL VENTILATION", USE 75% OF RECIRCULATED AIR VIA HVAC UNIT.
3. DUCT EXPOSED TO NON-CONDITIONED SPACES SHALL BE INSULATED TO PROVIDE A THERMAL RESISTANCE.
4. FLOOR AND WALL REGISTERS: THE LOWER EDGE SHALL NOT BE LESS THAN 1/2" FROM THE FLOOR IN TOILET ROOMS, LAUNDRY ROOMS OR UTILITY ROOMS.
5. METAL CHIMNEYS SHALL EXTEND AT LEAST 3 FT. ABOVE THE HIGHEST POINT WHERE THEY PASS THROUGH THE ROOM AND 2 FT. MINIMUM HIGHER THAN OTHER PORTIONS OF A BUILDING WITHIN 10 FT.

JOB NO: 2022-030
DRAWING NO: 5
DATE: 3/30/22
SCALE: 3/16"=1'-0"

SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

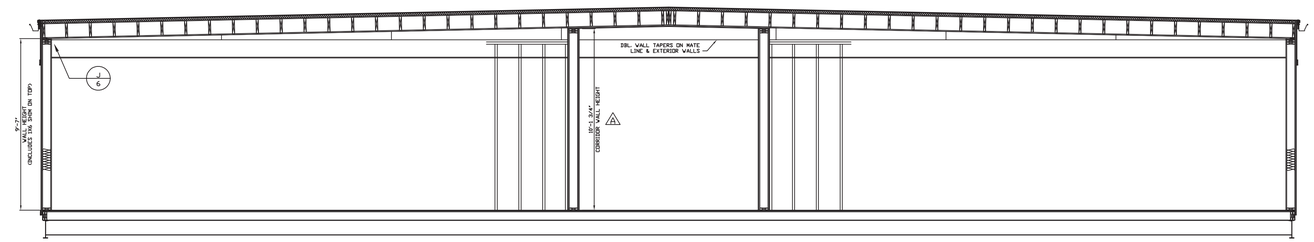
DRAWN BY: R.M.
REV:

TITLE: HVAC PLAN
MODEL: 11274 O/A CLASSROOM



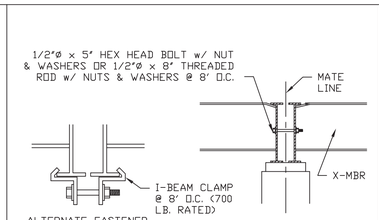
CROSS SECTION
SCALE: 1/2"=1'-0"

Ⓐ



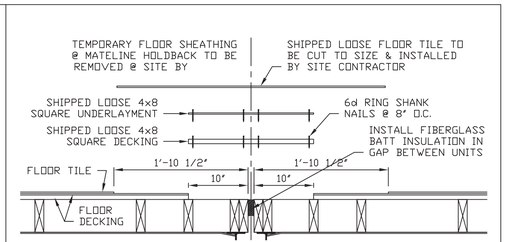
LONGITUDINAL SECTION
SCALE: 1/4"=1'-0"

Ⓑ



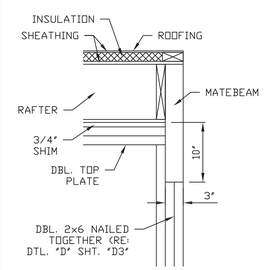
FRAME MATING DETAIL
SCALE: 1"=1'-0"

Ⓒ



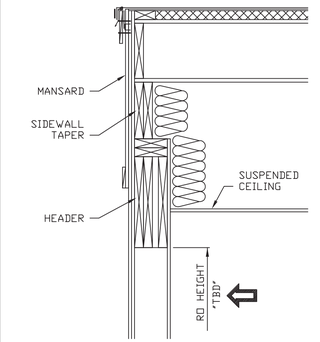
FLOOR TILE DETAIL w/ HOLDBACK
SCALE: 1"=1'-0"

Ⓓ



END WALL NOTCH
SCALE: 1"=1'-0"

Ⓙ



HEADER @ UNIT FA SIDEWALL DETAIL
SCALE: 1"=1'-0"

Ⓗ

Not in Contract
For Reference Only

BUILDING CODE

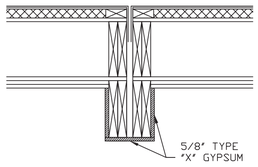
1. ATTIC VENTILATION SHALL NOT BE LESS THAN 1/150th OF THE HORIZONTAL AREA TO BE VENTILATED.
2. THE BUILDING EXTERIOR AND ALL FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
3. BUILDER/DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS: STEPS, RAMPS, PARKING SIGNS, ETC. – BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT MORE THAN 1 FOOT IN 20 FEET.
4. ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
5. CORROSION RESISTANT FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
6. ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND IN PASSAGE DOORS, OR WITHIN 18" OF FLOOR TO BE "SAFTEY GLAZED" AND SO MARKED.

JOB NO: 2022-030
DRAWING NO: 6
DATE: 3/30/22
SCALE: NTS

SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

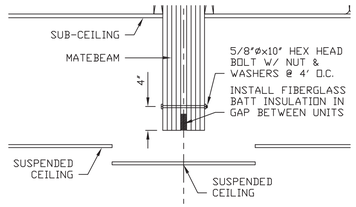
DRAWN BY: R.M.
REV:

TITLE: CROSS SECTIONS
MODEL: 11274 O/A CLASSROOM



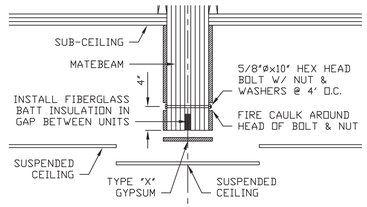
CEILING TO CEILING CONNECTION
WALL TAPER @ FIRE RATED CORRIDOR
SCALE: 1"=1'-0"

Ⓐ



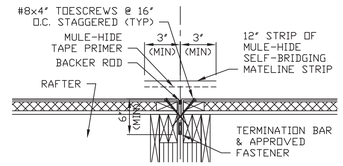
CEILING TO CEILING CONNECTION
SCALE: 1"=1'-0"

Ⓑ



CEILING TO CEILING CONNECTION
@ FIRE RATED CORRIDOR
SCALE: 1"=1'-0"

Ⓒ

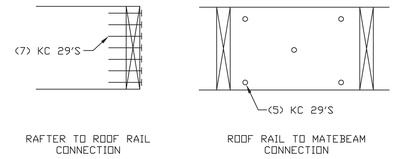


NOTE:
1. THIS DETAIL APPLIES TO ANY STYLE ROOF, TRANSVERSE OR LONGITUDINAL SLOPE.
2. REFERENCE MULE-HIDE DETAIL NO: MHE-301A

EPDM ROOF TO ROOF CONNECTION
SCALE: 1"=1'-0"

Ⓓ

NOTE:
CONNECTIONS w/ RAFTERS @ 16' O.C.

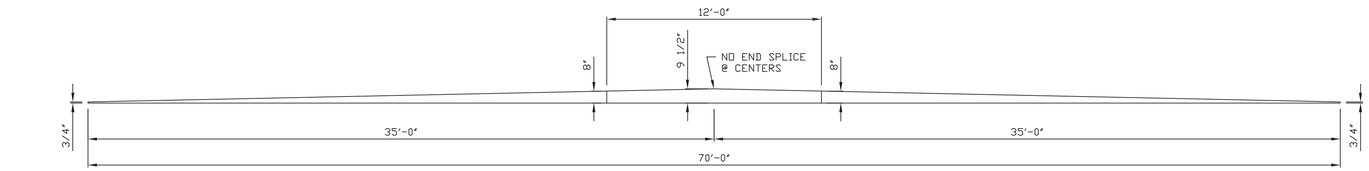


RAFTER TO ROOF RAIL CONNECTION

ROOF RAIL TO MATEBEAM CONNECTION

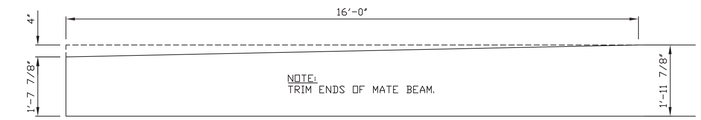
ROOF RAIL DETAILS
SCALE: 1 1/2"=1'-0"

Ⓔ



DBL. SIDEWALL TAPER DETAIL
SCALE: 1/4"=1'-0"

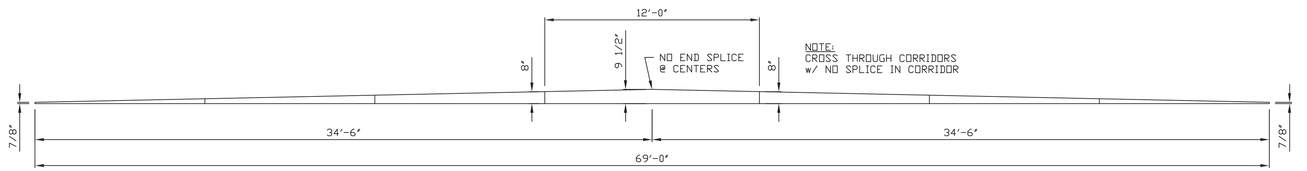
Ⓕ



NOTE:
TRIM ENDS OF MATE BEAM.

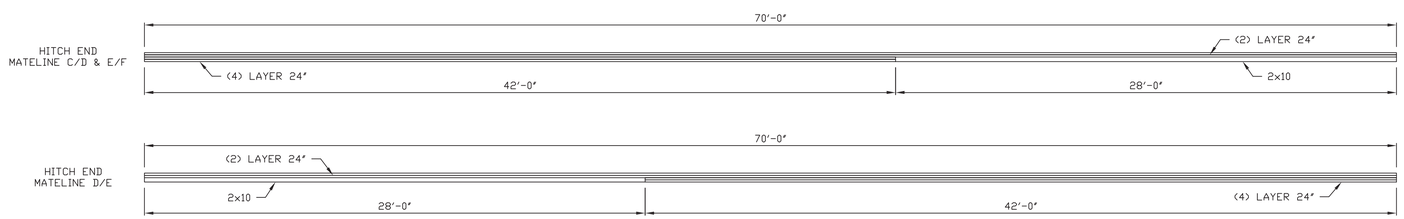
MATE BEAM DETAIL
SCALE: 1/2"=1'-0"

Ⓙ



DBL. MATELINE WALL TAPER DETAIL
SCALE: 1/4"=1'-0"

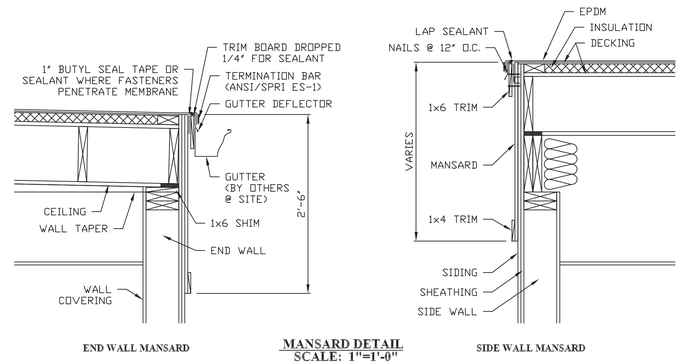
Ⓖ



AREA K MATEBEAMS
SCALE: 1/4"=1'-0"

Ⓗ

NOTES:
1) ROOF RAILS & OR MATE BEAM TO EXTEND 30" BEYOND EDGE OF BUILDING TO HELP SUPPORT MANSARD.
2) MANSARD TO BE FIRESTOPPED @ 20'-0" O.C.
3) RUBBER ROOFING TO RUN OVER TOP TRIM & SECURED TO TOP TRIM w/ EITHER TERMINATION BAR OR J-RAIL.

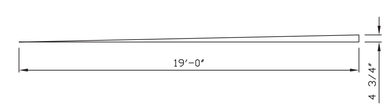


END WALL MANSARD

MANSARD DETAIL
SCALE: 1"=1'-0"

SIDE WALL MANSARD

Ⓛ



TAPER ABOVE MATEBEAM DETAIL
SCALE: 1/4"=1'-0"

Ⓡ

Not in Contract
For Reference Only

BUILDING CODE

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5. CORROSION RESISTANT FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
6. ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND IN PASSAGE DOORS, OR WITHIN 18" OF FLOOR TO BE "SAFTEY GLAZED" AND SO MARKED.

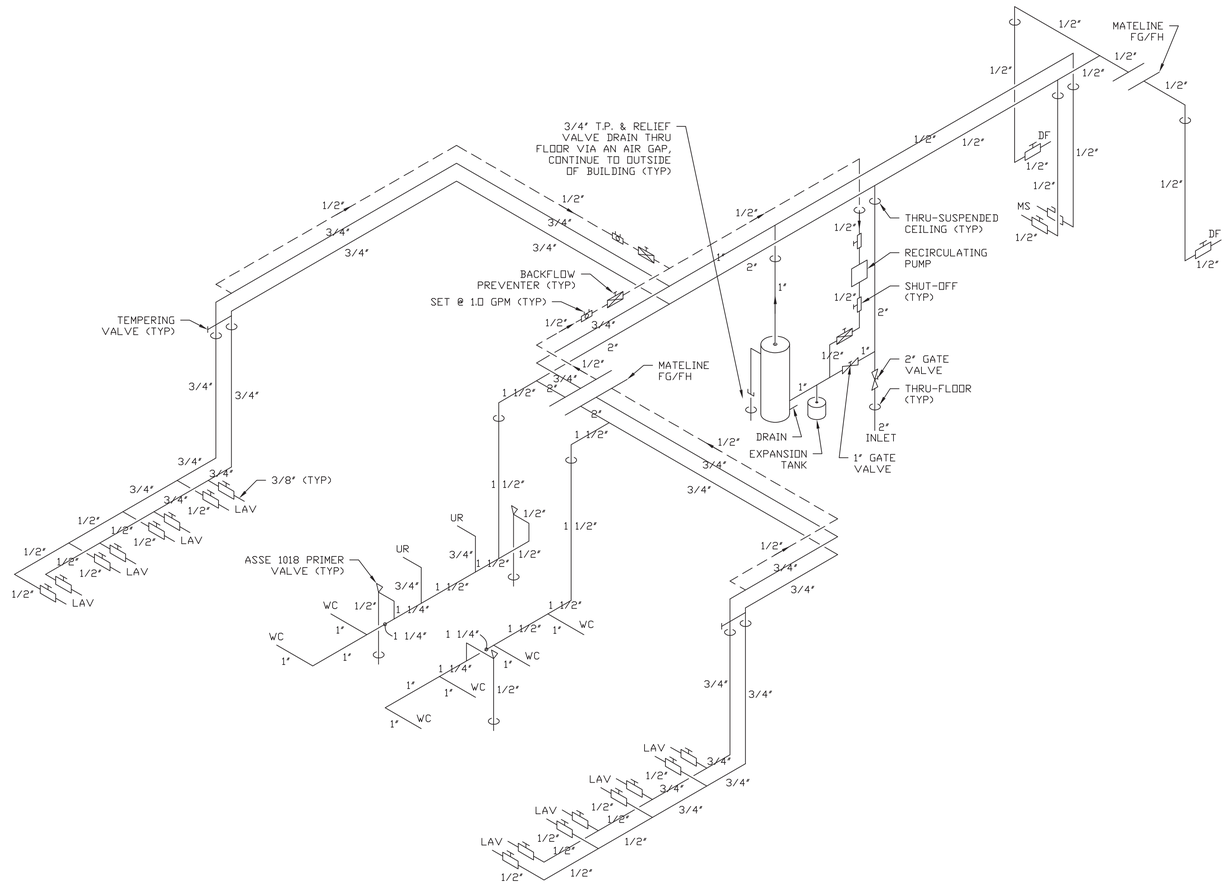
JOB NO: 2022-030
DRAWING NO: 7
DATE: 3/30/22
SCALE: NTS

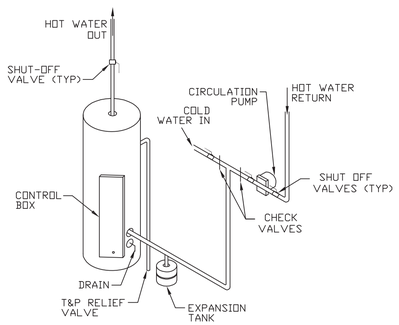
SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

DRAWN BY: R.M.
REV:

TITLE: CONSTRUCTION DETAILS
MODEL: 11274 O/A CLASSROOM

Not in Contract
For Reference Only



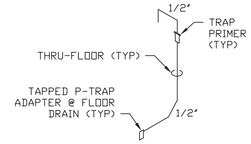


Ⓐ **WATER HEATER**
SCALE: NTS

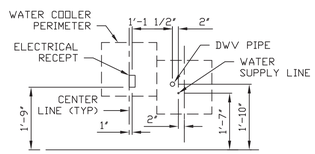
WATER SUPPLY

1. WATER SUPPLY LINE MATERIALS TO BE PER SPECIFICATIONS
2. COPPER OR GALVANIZED WATER PIPING TO BE SUPPORTED AT 4' O.C., POLYBUTYLENE AT 3' O.C.
3. WATER TEMPERATURE FACTORY SET AT 110°F, CONTROLS LOCATED BEHIND COVER PANEL.
4. A SHUT OFF VALVE SHALL BE REQUIRED FOR EACH FIXTURE.
5. WATER HAMMER ARRESTORS PROVIDED, OR IF AIR CHAMBERS, TO BE MIN. 15" LONG AND NOT LESS THAN THE DIAMETER OF PIPE SERVED.
6. WATER HEATER EQUIPPED WITH DRAIN COCK.
7. DIELECTRIC UNIONS TO BE USED AT CONNECTIONS OF WATER LINES TO WATER HEATER.
8. COLD WATER INLET TO BE PROVIDED WITH A SHUT-OFF VALVE ABOVE FLOOR AT THE WATER HEATER.
9. T&P VALVE, 210°F, 125PSI, WITH A 3/4" DISCHARGE PIPE TO THE EXTERIOR VIA A 4" AIR GAP.
10. FULL-SIZED SHUT OFF VALVE TO BE PROVIDED BETWEEN THE BUILDING AND WATER MAIN (METER).
11. 1/2" WATER SUPPLY SHALL SUPPLY ONLY ONE FIXTURE.

WATER SUPPLY SCHEMATIC
SCALE: NOT TO SCALE



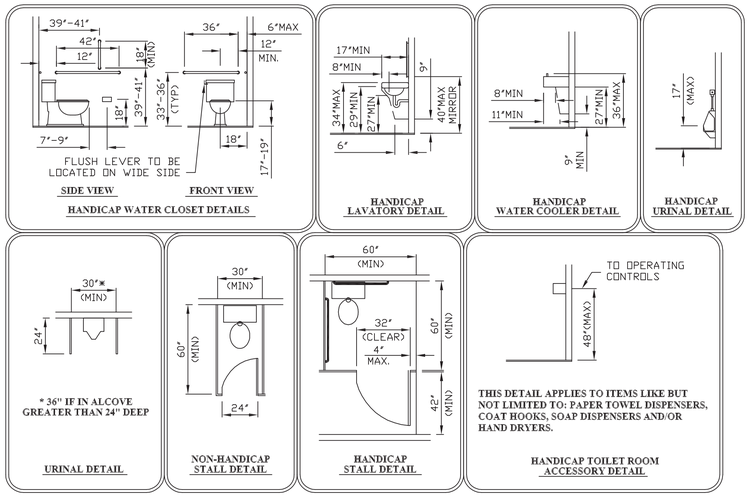
Ⓑ **TRAP PRIMER DETAIL**
SCALE: NTS

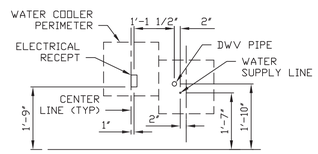


Ⓒ WATER COOLER
ELEC AND PLUMBING LOCATION
SCALE: 1/2"=1'-0"

JOB NO: 2022-030
DRAWING NO: 8
DATE: 3/30/22
SCALE: NTS
SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410
DRAWN BY: R.M.
REV:
TITLE: PLUMBING SUPPLY SCHEMATICS
MODEL: 11274 O/A CLASSROOM

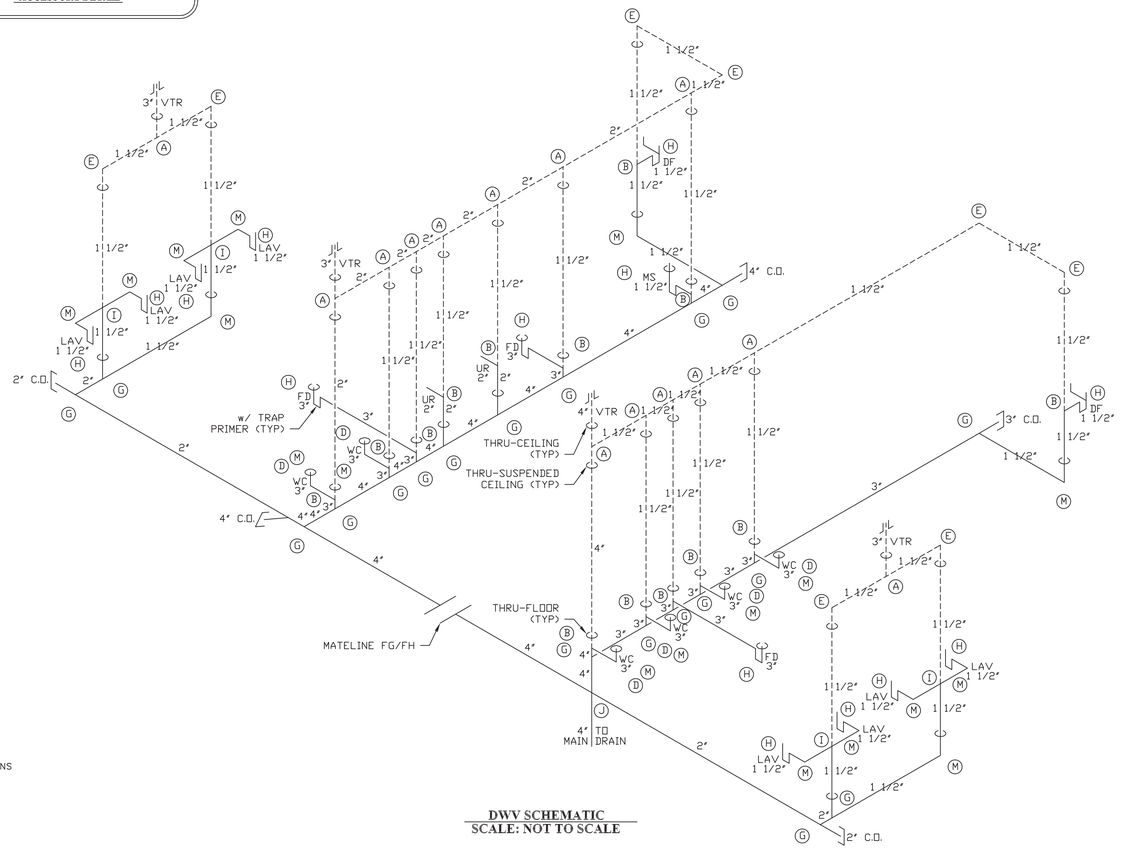
PLUMBING FIXTURES





Ⓐ WATER COOLER ELEC AND PLUMBING LOCATION
SCALE: 1/2"=1'-0"

Not in Contract
For Reference Only

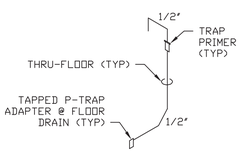


DWV SCHEMATIC
SCALE: NOT TO SCALE

DWV FITTINGS	
MARK	DESCRIPTION
A	VENT TEE
B	SANITARY TEE
C	
D	CLOSET FLANGE
E	VENT ELBOW
F	1/4 BEND ELBOW
G	LONG TURN TEE WYE
H	P-TRAP
I	DOUBLE SANITARY TEE
J	DOUBLE LONG TURN TEE WYE
K	
L	ELBOW
M	LONG TURN 1/4 BEND
N	

DWV

1. DWV MATERIAL TO BE PER MATERILS LISTED IN THE SPECIFICATIONS
2. ALL PIPES TO BE SECURED AT 4' O.C.
3. ALL CLEAN OUTS SHALL BE ACCESSIBLE. CLEAN OUTS TO BE PROVIDED AT THE BASE OF ALL WASTE AND SOIL STACKS, AND PLACED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED W/ A CLEANOUT TOOL W/O PASSING THROUGH MORE THAN 45° OF TURNS.
4. 1/4" PER 1' SLOPE PROVIDED ON ALL HORIZONTAL BRANCHES.
5. VENTS SHALL BE 3"ø, 12" ABOVE AND BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' OF OTHER VENT OPENINGS.
6. ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION SHALL BE THROUGH A LONG TURN TEE-WYE OR COMBINATION WYE AND 1/8 BEND.
7. ALL HORIZONTAL TO VERTICAL CHANGES OF DIRECTION SHALL BE THROUGH A SANITARY TEE, OR IF AT THE SAME LEVEL ON VERTICAL STACK, THROUGH AN APPROVED DOUBLE FIXTURE FITTING.



Ⓑ **TRAP PRIMER DETAIL**
SCALE: NTS

JOB NO:	2022-030
DRAWING NO:	9
DATE:	3/30/22
SCALE:	NTS
DRAWN BY:	R.M.
REV:	

SATELLITE SHELTERS, INC.
27711 S. FRONTAGE RD., CHANNAHON, IL 60410

TITLE: PLUMBING DWV SCHEMATICS
MODEL: 11274 O/A CLASSROOM

Schedule

Exterior Site work
Start-May 2026
End-August 2027

Phase 1
Start-May 2026
End-August 2026

Phase 2A
Start-June 2026
End-June 2027

Phase 2B
Start-June 2026
End-January 2027

Phase 3
Start-February 2027
End-April 2027

Phase 4
Start-April 2027
End-July 2027

Phase 5
Start- July 2027
End-September 2027

Phase 6
Start-August 2027
End-April 2028

Phase 7
Start-September 2027
End-December 2027

Phase 8
Start-December 2027
End-March 2028

Phase 9
Start-March 2028
End-June 2028

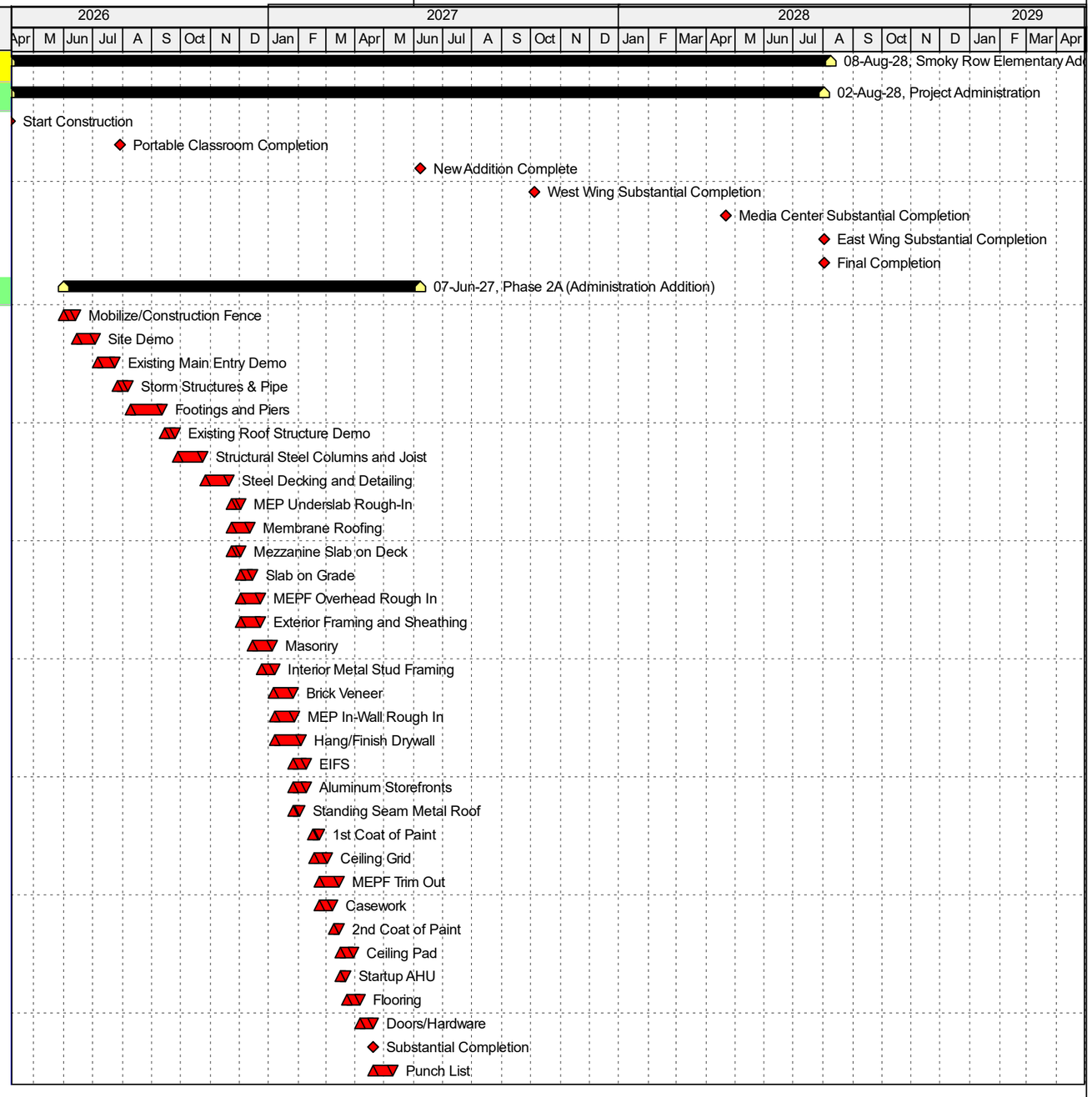
Phase 10
Start-May 2028
End-August 2028

Phase 11
Start-May 2026
End-August 2028

West Playground
Start-May 2027
End-August 2027

East Playground
Start-May 2028
End-August 2028

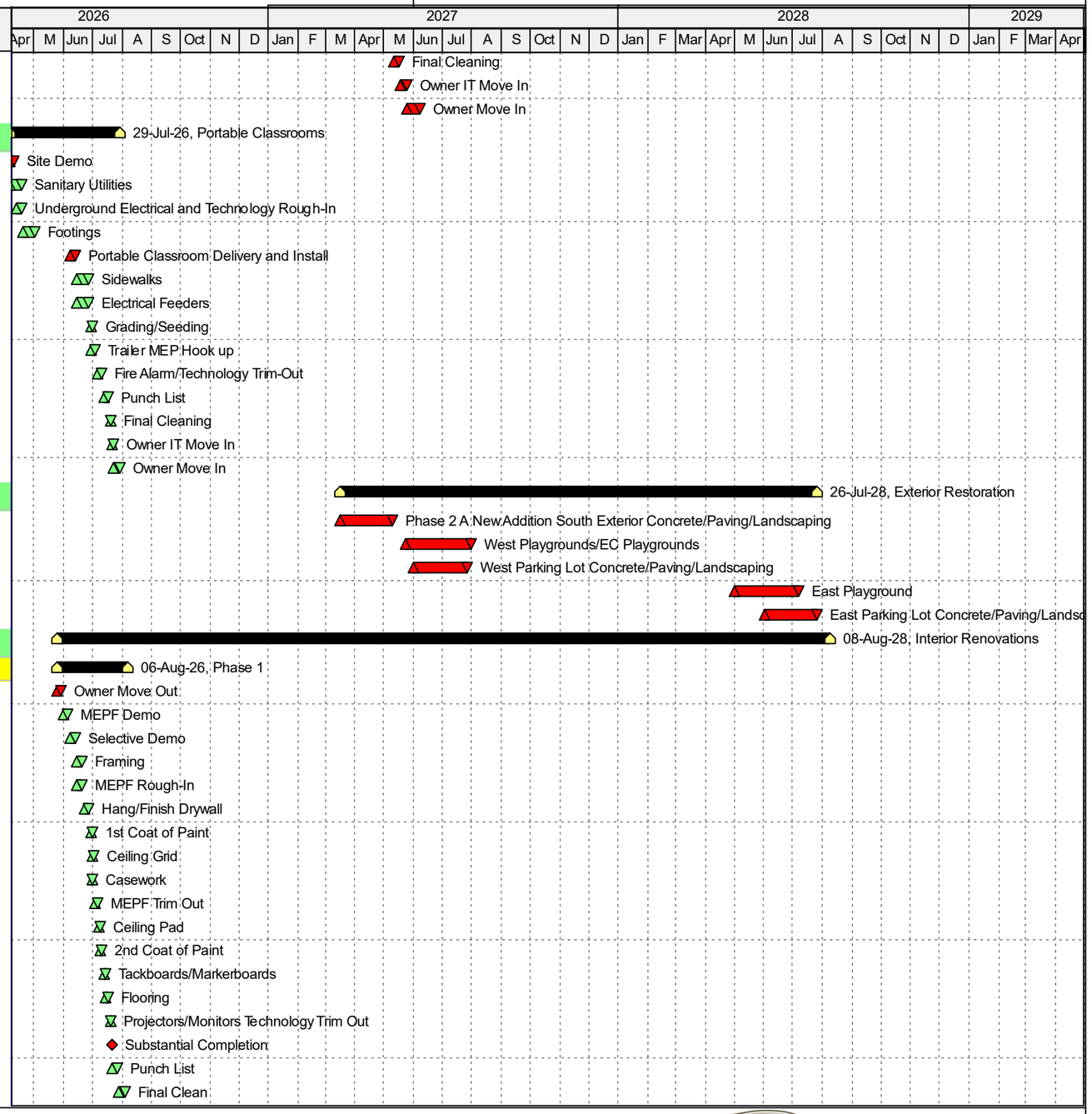
Activity Name	Original Duration	Start	Finish
Smoky Row Elementary Addition and Renovations	612	06-Apr-26	08-Aug-28
Project Administration	608	06-Apr-26	02-Aug-28
Start Construction	0	06-Apr-26*	
Portable Classroom Completion	0		29-Jul-26
New Addition Complete	0		07-Jun-27
West Wing Substantial Completion	0		04-Oct-27
Media Center Substantial Completion	0		21-Apr-28
East Wing Substantial Completion	0		02-Aug-28
Final Completion	0		02-Aug-28
Phase 2A (Administration Addition)	266	01-Jun-26	07-Jun-27
Mobilize/Construction Fence	10	01-Jun-26*	12-Jun-26
Site Demo	15	15-Jun-26	03-Jul-26
Existing Main Entry Demo	15	06-Jul-26	24-Jul-26
Storm Structures & Pipe	10	27-Jul-26	07-Aug-26
Footings and Piers	25	10-Aug-26	11-Sep-26
Existing Roof Structure Demo	10	14-Sep-26	25-Sep-26
Structural Steel Columns and Joist	20	28-Sep-26	23-Oct-26
Steel Decking and Detailing	20	26-Oct-26	20-Nov-26
MEP Underslab Rough-In	8	23-Nov-26	02-Dec-26
Membrane Roofing	15	23-Nov-26	11-Dec-26
Mezzanine Slab on Deck	8	23-Nov-26	02-Dec-26
Slab on Grade	8	03-Dec-26	14-Dec-26
MEPF Overhead Rough In	14	03-Dec-26	22-Dec-26
Exterior Framing and Sheathing	15	03-Dec-26	23-Dec-26
Masonry	15	15-Dec-26	04-Jan-27
Interior Metal Stud Framing	10	24-Dec-26	06-Jan-27
Brick Veneer	15	05-Jan-27	25-Jan-27
MEP In-Wall Rough In	15	07-Jan-27	27-Jan-27
Hang/Finish Drywall	20	07-Jan-27	03-Feb-27
EIFS	10	26-Jan-27	08-Feb-27
Aluminum Storefronts	10	26-Jan-27	08-Feb-27
Standing Seam Metal Roof	5	26-Jan-27	01-Feb-27
1st Coat of Paint	5	16-Feb-27	22-Feb-27
Ceiling Grid	10	17-Feb-27	02-Mar-27
MEPF Trim Out	15	23-Feb-27	15-Mar-27
Casework	10	23-Feb-27	08-Mar-27
2nd Coat of Paint	5	09-Mar-27	15-Mar-27
Ceiling Pad	10	16-Mar-27	29-Mar-27
Startup AHU	5	16-Mar-27	22-Mar-27
Flooring	10	23-Mar-27	05-Apr-27
Doors/Hardware	10	06-Apr-27	19-Apr-27
Substantial Completion	0		19-Apr-27
Punch List	15	20-Apr-27	10-May-27



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

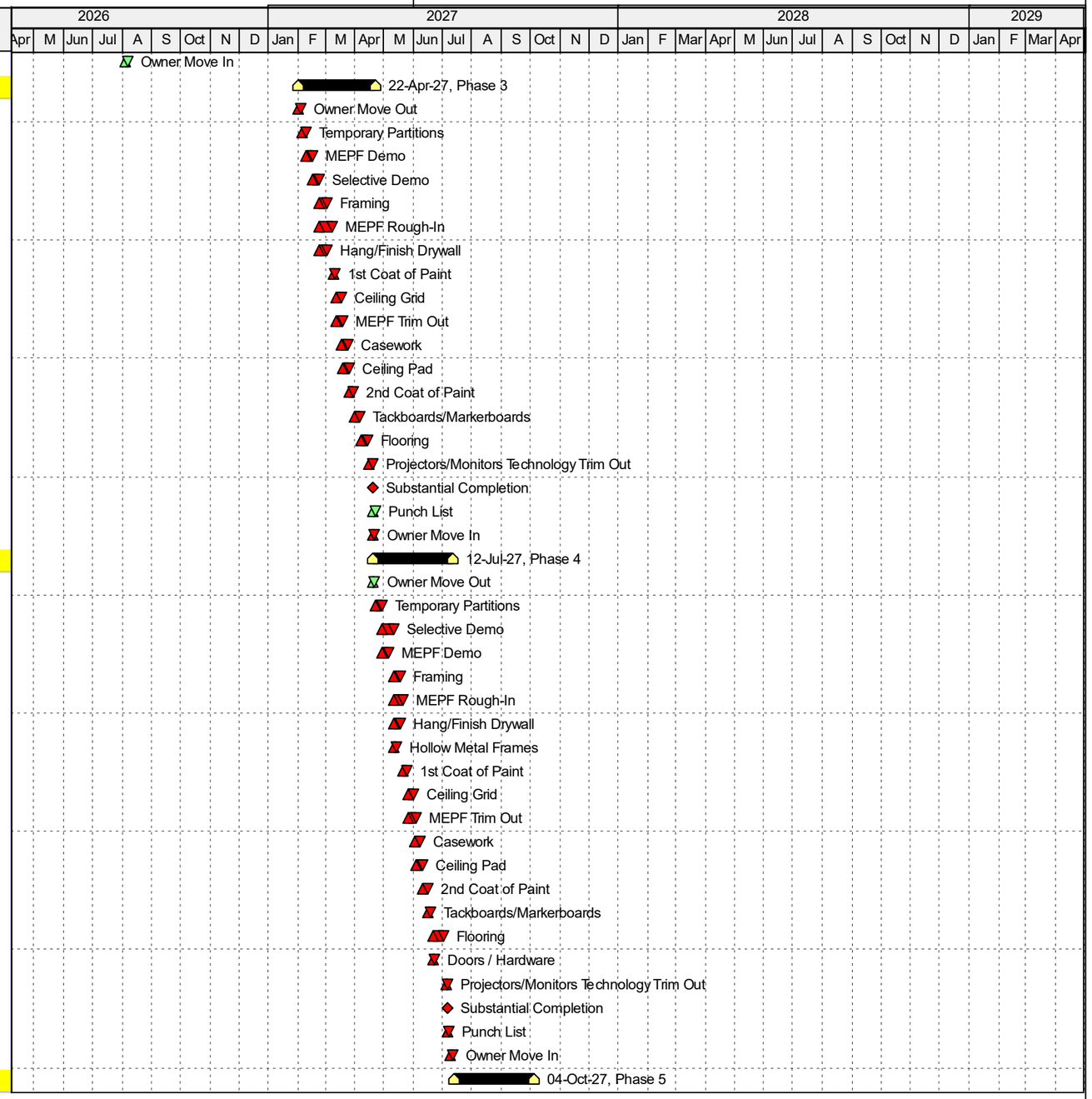
SKILLMAN

Activity Name	Original Duration	Start	Finish
Final Cleaning	5	11-May-27	17-May-27
Owner IT Move In	5	18-May-27	24-May-27
Owner Move In	10	25-May-27	07-Jun-27
Portable Classrooms	83	06-Apr-26	29-Jul-26
Site Demo	5	06-Apr-26*	10-Apr-26
Sanitary Utilities	10	06-Apr-26	17-Apr-26
Underground Electrical and Technology Rough-In	5	13-Apr-26	17-Apr-26
Footings	10	20-Apr-26	01-May-26
Portable Classroom Delivery and Install	5	08-Jun-26*	12-Jun-26
Sidewalks	10	15-Jun-26	26-Jun-26
Electrical Feeders	10	15-Jun-26	26-Jun-26
Grading/Seeding	3	29-Jun-26	01-Jul-26
Trailer MEP Hook up	5	29-Jun-26	03-Jul-26
Fire Alarm/Technology Trim-Out	5	06-Jul-26	10-Jul-26
Punch List	5	13-Jul-26	17-Jul-26
Final Cleaning	1	20-Jul-26	20-Jul-26
Owner IT Move In	2	21-Jul-26	22-Jul-26
Owner Move In	5	23-Jul-26	29-Jul-26
Exterior Restoration	357	16-Mar-27	26-Jul-28
Phase 2 A New Addition South Exterior Concrete/Paving/Landscaping	40	16-Mar-27*	10-May-27
West Playgrounds/EC Playgrounds	50	24-May-27*	30-Jul-27
West Parking Lot Concrete/Paving/Landscaping	40	01-Jun-27*	26-Jul-27
East Playground	50	01-May-28*	07-Jul-28
East Parking Lot Concrete/Paving/Landscaping	40	01-Jun-28*	26-Jul-28
Interior Renovations	577	25-May-26	08-Aug-28
Phase 1	54	25-May-26	06-Aug-26
Owner Move Out	5	25-May-26*	29-May-26
MEPF Demo	5	01-Jun-26	05-Jun-26
Selective Demo	5	08-Jun-26	12-Jun-26
Framing	5	15-Jun-26	19-Jun-26
MEPF Rough-In	5	15-Jun-26	19-Jun-26
Hang/Finish Drywall	5	22-Jun-26	26-Jun-26
1st Coat of Paint	2	29-Jun-26	30-Jun-26
Ceiling Grid	2	01-Jul-26	02-Jul-26
Casework	0	01-Jul-26	01-Jul-26
MEPF Trim Out	2	03-Jul-26	06-Jul-26
Ceiling Pad	2	07-Jul-26	08-Jul-26
2nd Coat of Paint	2	09-Jul-26	10-Jul-26
Tackboards/Markerboards	2	13-Jul-26	14-Jul-26
Flooring	3	15-Jul-26	17-Jul-26
Projectors/Monitors Technology Trim Out	1	20-Jul-26	20-Jul-26
Substantial Completion	0	21-Jul-26	
Punch List	5	21-Jul-26	27-Jul-26
Final Clean	5	28-Jul-26	03-Aug-26



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Activity Name	Original Duration	Start	Finish
Owner Move In	3	04-Aug-26	06-Aug-26
Phase 3	59	01-Feb-27	22-Apr-27
Owner Move Out	3	01-Feb-27	03-Feb-27
Temporary Partitions	3	04-Feb-27	08-Feb-27
MEPF Demo	5	09-Feb-27	15-Feb-27
Selective Demo	5	16-Feb-27	22-Feb-27
Framing	6	23-Feb-27	02-Mar-27
MEPF Rough-In	10	23-Feb-27	08-Mar-27
Hang/Finish Drywall	6	23-Feb-27	02-Mar-27
1st Coat of Paint	3	09-Mar-27	11-Mar-27
Ceiling Grid	4	12-Mar-27	17-Mar-27
MEPF Trim Out	5	12-Mar-27	18-Mar-27
Casework	5	18-Mar-27	24-Mar-27
Ceiling Pad	5	19-Mar-27	25-Mar-27
2nd Coat of Paint	3	26-Mar-27	30-Mar-27
Tackboards/Markerboards	5	31-Mar-27	06-Apr-27
Flooring	6	07-Apr-27	14-Apr-27
Projectors/Monitors Technology Trim Out	3	15-Apr-27	19-Apr-27
Substantial Completion	0	20-Apr-27	
Punch List	3	20-Apr-27	22-Apr-27
Owner Move In	2	20-Apr-27	21-Apr-27
Phase 4	60	20-Apr-27	12-Jul-27
Owner Move Out	1	20-Apr-27	20-Apr-27
Temporary Partitions	5	22-Apr-27	28-Apr-27
Selective Demo	9	29-Apr-27	11-May-27
MEPF Demo	5	29-Apr-27	05-May-27
Framing	5	12-May-27	18-May-27
MEPF Rough-In	7	12-May-27	20-May-27
Hang/Finish Drywall	5	12-May-27	18-May-27
Hollow Metal Frames	3	12-May-27	14-May-27
1st Coat of Paint	3	21-May-27	25-May-27
Ceiling Grid	5	26-May-27	01-Jun-27
MEPF Trim Out	7	26-May-27	03-Jun-27
Casework	5	02-Jun-27	08-Jun-27
Ceiling Pad	5	04-Jun-27	10-Jun-27
2nd Coat of Paint	3	11-Jun-27	15-Jun-27
Tackboards/Markerboards	3	16-Jun-27	18-Jun-27
Flooring	10	21-Jun-27	02-Jul-27
Doors / Hardware	3	21-Jun-27	23-Jun-27
Projectors/Monitors Technology Trim Out	2	05-Jul-27	06-Jul-27
Substantial Completion			06-Jul-27*
Punch List	2	07-Jul-27	08-Jul-27
Owner Move In	2	09-Jul-27	12-Jul-27
Phase 5	60	13-Jul-27	04-Oct-27



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

SKILLMAN

Activity Name	Original Duration	Start	Finish
Owner Move Out	3	13-Jul-27	15-Jul-27
Temporary Partitions	5	13-Jul-27	19-Jul-27
Selective Demo	7	20-Jul-27	28-Jul-27
MEPF Demo	7	20-Jul-27	28-Jul-27
Framing	5	29-Jul-27	04-Aug-27
MEPF Rough-In	7	29-Jul-27	06-Aug-27
Hang/Finish Drywall	5	29-Jul-27	04-Aug-27
Hollow Metal Frames	5	29-Jul-27	04-Aug-27
1st Coat of Paint	3	09-Aug-27	11-Aug-27
Ceiling Grid	5	12-Aug-27	18-Aug-27
MEPF Trim Out	7	12-Aug-27	20-Aug-27
Casework	5	19-Aug-27	25-Aug-27
Ceiling Pad	5	23-Aug-27	27-Aug-27
2nd Coat of Paint	3	30-Aug-27	01-Sep-27
Tackboards/Markerboards	4	02-Sep-27	07-Sep-27
Flooring	10	08-Sep-27	21-Sep-27
Doors / Hardware	3	08-Sep-27	10-Sep-27
Projectors/Monitors Technology Trim Out	2	22-Sep-27	23-Sep-27
Substantial Completion	0		23-Sep-27*
Punch List	5	24-Sep-27	30-Sep-27
Owner Move In	2	01-Oct-27	04-Oct-27
Phase 6	229	08-Jun-27	21-Apr-28
Move Out / Construction Area Set Up	10	08-Jun-27	21-Jun-27
Make Safe / MEP Demo	10	22-Jun-27	05-Jul-27
Selective Demo	30	06-Jul-27	16-Aug-27
MEP Underslab Rough	5	17-Aug-27	23-Aug-27
Patch Floors	5	24-Aug-27	30-Aug-27
CMU / Metal Stud Walls	30	31-Aug-27	11-Oct-27
MEP Rough	15	12-Oct-27	01-Nov-27
Hang and Finish Drywall / Patch Holes	10	02-Nov-27	15-Nov-27
Prime / Block Fill	5	16-Nov-27	22-Nov-27
Full Phase Clean Up	5	16-Nov-27	22-Nov-27
1st Coat of Paint	0	23-Nov-27	23-Nov-27
Wall Touch Up	5	23-Nov-27	29-Nov-27
2nd Coat of Paint	10	30-Nov-27	13-Dec-27
Ceiling Grid	15	14-Dec-27	03-Jan-28
MEPF Trim Out	15	04-Jan-28	24-Jan-28
Casework	10	04-Jan-28	17-Jan-28
Ceiling Pad	8	25-Jan-28	03-Feb-28
Flooring	15	04-Feb-28	24-Feb-28
Tackboards/Markerboards	5	25-Feb-28	02-Mar-28
Projectors/Monitors Technology Trim Out	5	25-Feb-28	02-Mar-28
Construction Clean	5	25-Feb-28	02-Mar-28
Skillman Punch	10	03-Mar-28	16-Mar-28

Actual Work
Remaining Work
Critical Remaining Work
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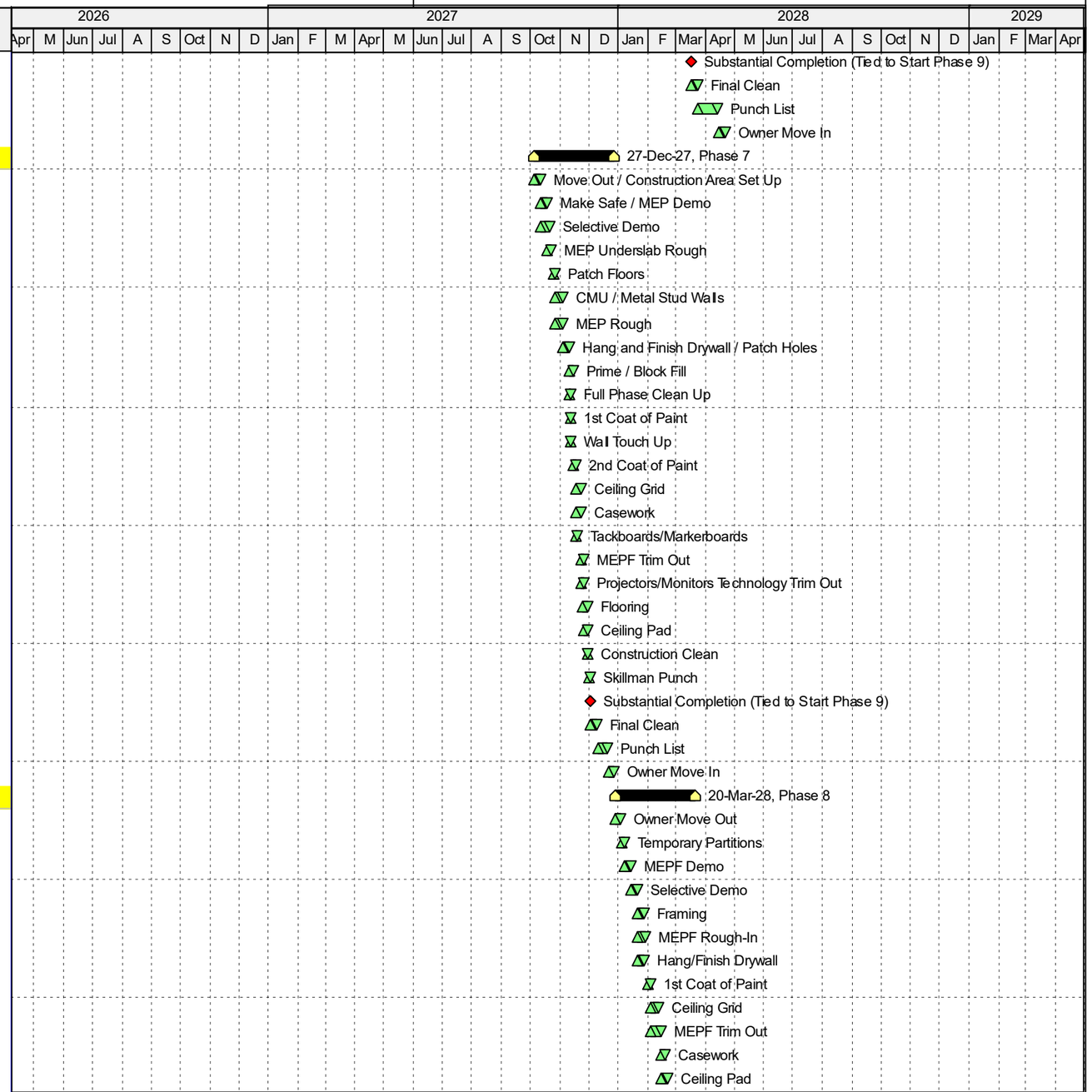
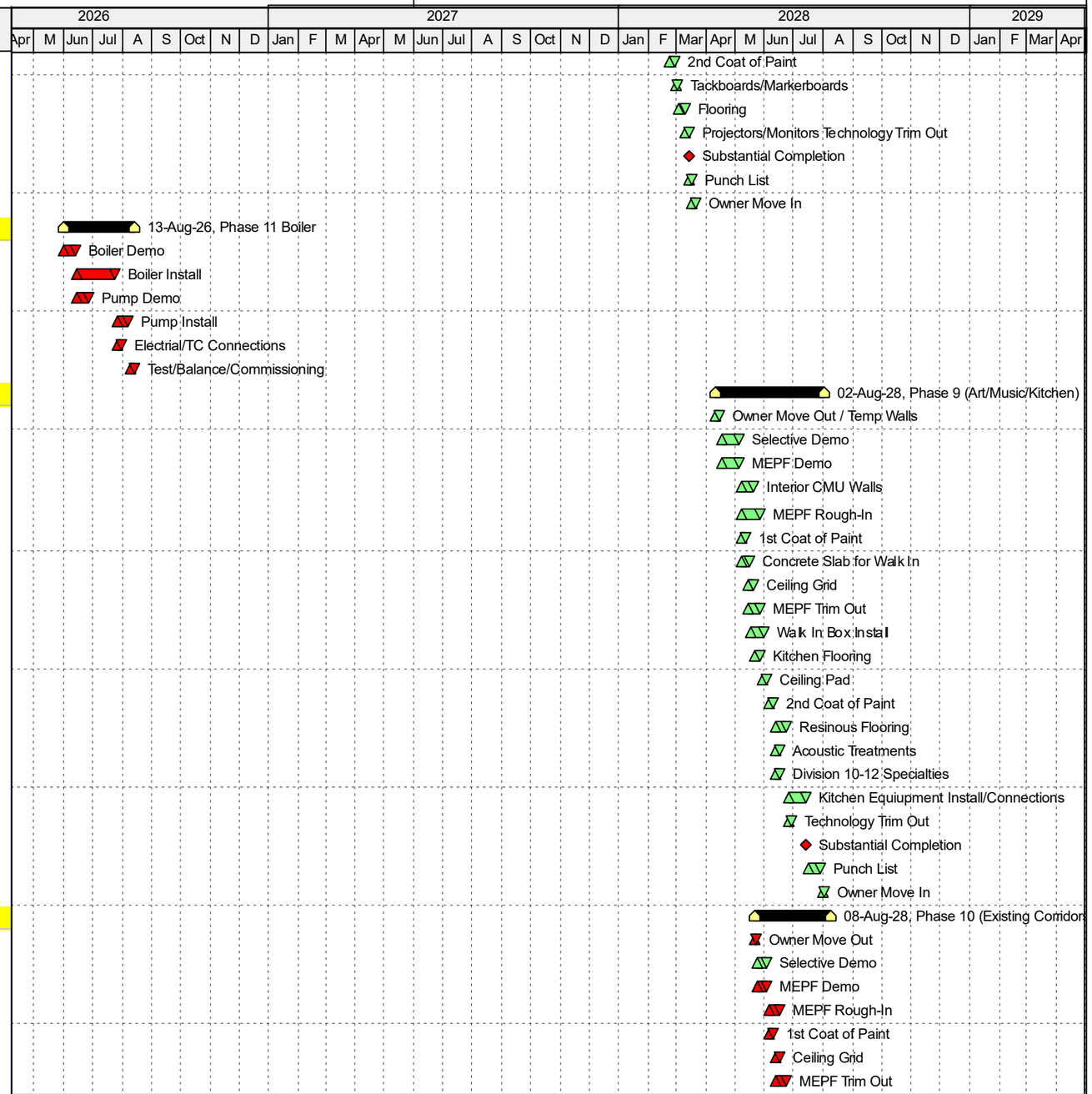
Activity Name	Original Duration	Start	Finish
Substantial Completion (Tied to Start Phase 9)	0		16-Mar-28*
Final Clean	5	17-Mar-28	23-Mar-28
Punch List	15	24-Mar-28	13-Apr-28
Owner Move In	6	14-Apr-28	21-Apr-28
Phase 7	60	05-Oct-27	27-Dec-27
Move Out / Construction Area Set Up	5	05-Oct-27	11-Oct-27
Make Safe / MEP Demo	5	12-Oct-27	18-Oct-27
Selective Demo	8	12-Oct-27	21-Oct-27
MEP Underslab Rough	4	19-Oct-27	22-Oct-27
Patch Floors	2	25-Oct-27	26-Oct-27
CMU / Metal Stud Walls	6	27-Oct-27	03-Nov-27
MEP Rough	6	27-Oct-27	03-Nov-27
Hang and Finish Drywall / Patch Holes	5	04-Nov-27	10-Nov-27
Prime / Block Fill	3	11-Nov-27	15-Nov-27
Full Phase Clean Up	1	11-Nov-27	11-Nov-27
1st Coat of Paint	0	12-Nov-27	12-Nov-27
Wall Touch Up	1	12-Nov-27	12-Nov-27
2nd Coat of Paint	3	15-Nov-27	17-Nov-27
Ceiling Grid	3	18-Nov-27	22-Nov-27
Casework	4	18-Nov-27	23-Nov-27
Tackboards/Markerboards	2	18-Nov-27	19-Nov-27
MEPF Trim Out	3	23-Nov-27	25-Nov-27
Projectors/Monitors Technology Trim Out	3	23-Nov-27	25-Nov-27
Flooring	4	24-Nov-27	29-Nov-27
Ceiling Pad	3	26-Nov-27	30-Nov-27
Construction Clean	1	30-Nov-27	30-Nov-27
Skillman Punch	2	01-Dec-27	02-Dec-27
Substantial Completion (Tied to Start Phase 9)	0		02-Dec-27
Final Clean	5	03-Dec-27	09-Dec-27
Punch List	7	10-Dec-27	20-Dec-27
Owner Move In	5	21-Dec-27	27-Dec-27
Phase 8	60	28-Dec-27	20-Mar-28
Owner Move Out	5	28-Dec-27	03-Jan-28
Temporary Partitions	3	04-Jan-28	06-Jan-28
MEPF Demo	5	07-Jan-28	13-Jan-28
Selective Demo	5	14-Jan-28	20-Jan-28
Framing	5	21-Jan-28	27-Jan-28
MEPF Rough-In	6	21-Jan-28	28-Jan-28
Hang/Finish Drywall	5	21-Jan-28	27-Jan-28
1st Coat of Paint	4	31-Jan-28	03-Feb-28
Ceiling Grid	6	04-Feb-28	11-Feb-28
MEPF Trim Out	7	04-Feb-28	14-Feb-28
Casework	5	14-Feb-28	18-Feb-28
Ceiling Pad	5	15-Feb-28	21-Feb-28



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

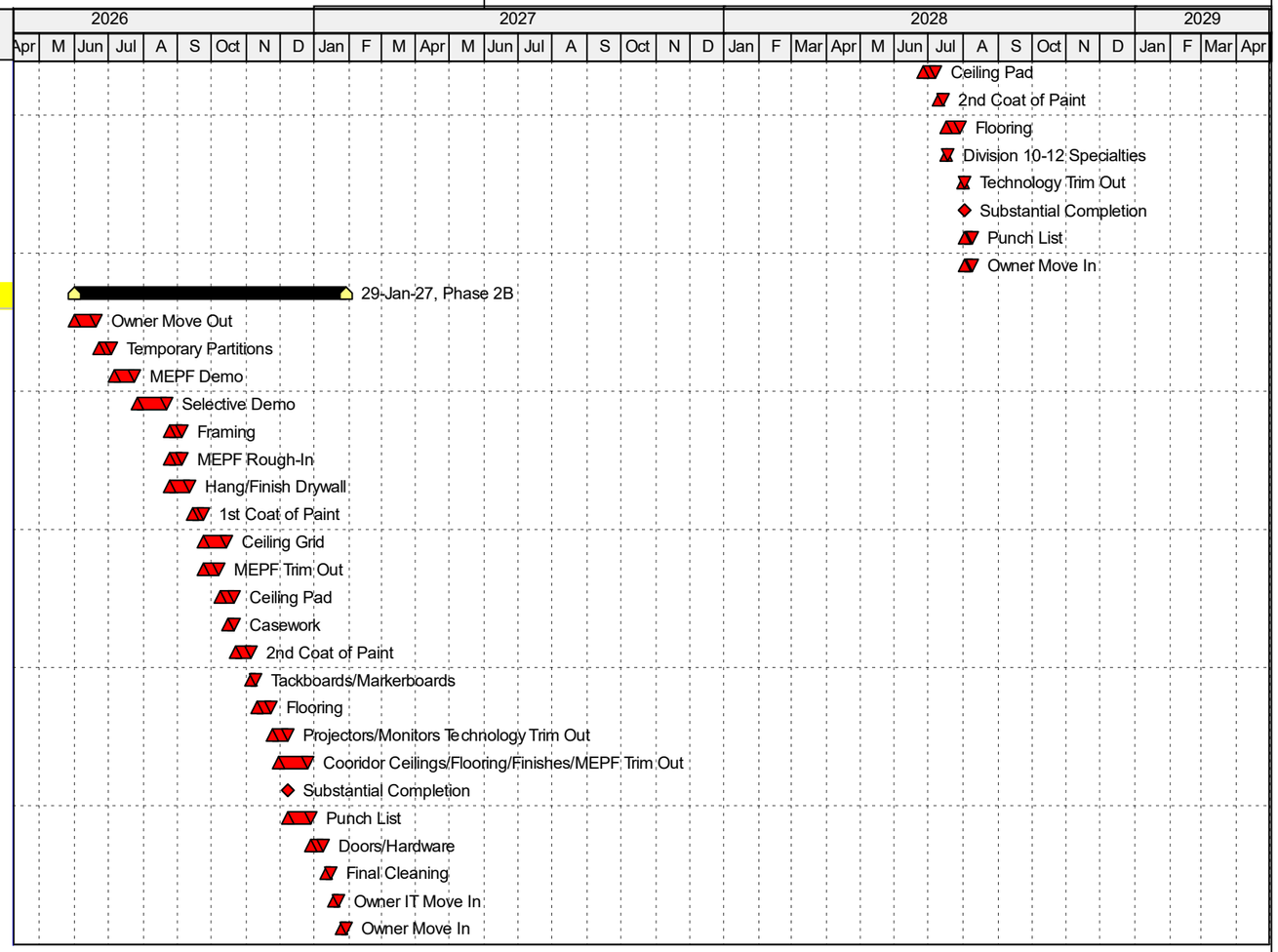
Activity Name	Original Duration	Start	Finish
2nd Coat of Paint	5	22-Feb-28	28-Feb-28
Tackboards/Markerboards	3	29-Feb-28	02-Mar-28
Flooring	5	03-Mar-28	09-Mar-28
Projectors/Monitors Technology Trim Out	2	10-Mar-28	13-Mar-28
Substantial Completion	0		13-Mar-28
Punch List	3	14-Mar-28	16-Mar-28
Owner Move In	2	17-Mar-28	20-Mar-28
Phase 11 Boiler	54	01-Jun-26	13-Aug-26
Boiler Demo	10	01-Jun-26*	12-Jun-26
Boiler Install	30	15-Jun-26	24-Jul-26
Pump Demo	10	15-Jun-26	26-Jun-26
Pump Install	10	27-Jul-26	07-Aug-26
Electrial/TC Connections	5	27-Jul-26	31-Jul-26
Test/Balance/Commissioning	4	10-Aug-26	13-Aug-26*
Phase 9 (Art/Music/Kitchen)	83	10-Apr-28	02-Aug-28
Owner Move Out / Temp Walls	5	10-Apr-28*	14-Apr-28
Selective Demo	15	17-Apr-28	05-May-28
MEPF Demo	15	17-Apr-28	05-May-28
Interior CMU Walls	10	08-May-28	19-May-28
MEPF Rough-In	15	08-May-28	26-May-28
1st Coat of Paint	5	08-May-28	12-May-28
Concrete Slab for Walk In	7	08-May-28	16-May-28
Ceiling Grid	5	15-May-28	19-May-28
MEPF Trim Out	10	15-May-28	26-May-28
Walk In Box Install	10	17-May-28	30-May-28
Kitchen Flooring	5	22-May-28	26-May-28
Ceiling Pad	5	29-May-28	02-Jun-28
2nd Coat of Paint	5	05-Jun-28	09-Jun-28
Resinous Flooring	10	12-Jun-28	23-Jun-28
Acoustic Treatments	5	12-Jun-28	16-Jun-28
Division 10-12 Specialties	5	12-Jun-28	16-Jun-28
Kitchen Equiupment Install/Connections	15	26-Jun-28	14-Jul-28
Technology Trim Out	3	26-Jun-28	28-Jun-28
Substantial Completion	0		14-Jul-28
Punch List	10	17-Jul-28	28-Jul-28
Owner Move In	3	31-Jul-28	02-Aug-28
Phase 10 (Existing Corridors/ Gym)	57	22-May-28	08-Aug-28
Owner Move Out	2	22-May-28*	23-May-28
Selective Demo	8	24-May-28	02-Jun-28
MEPF Demo	8	24-May-28	02-Jun-28
MEPF Rough-In	10	05-Jun-28	16-Jun-28
1st Coat of Paint	5	05-Jun-28	09-Jun-28
Ceiling Grid	5	12-Jun-28	16-Jun-28
MEPF Trim Out	10	12-Jun-28	23-Jun-28



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

SKILLMAN

Activity Name	Original Duration	Start	Finish
Ceiling Pad	10	26-Jun-28	07-Jul-28
2nd Coat of Paint	5	10-Jul-28	14-Jul-28
Flooring	10	17-Jul-28	28-Jul-28
Division 10-12 Specialties	2	17-Jul-28	18-Jul-28
Technology Trim Out	2	31-Jul-28	01-Aug-28
Substantial Completion	0		01-Aug-28*
Punch List	5	02-Aug-28	08-Aug-28
Owner Move In	5	02-Aug-28	08-Aug-28*
Phase 2B	175	01-Jun-26	29-Jan-27
Owner Move Out	15	01-Jun-26*	19-Jun-26
Temporary Partitions	10	22-Jun-26	03-Jul-26
MEPF Demo	15	06-Jul-26	24-Jul-26
Selective Demo	20	27-Jul-26	21-Aug-26
Framing	10	24-Aug-26	04-Sep-26
MEPF Rough-In	10	24-Aug-26	04-Sep-26
Hang/Finish Drywall	15	24-Aug-26	11-Sep-26
1st Coat of Paint	8	14-Sep-26	23-Sep-26
Ceiling Grid	15	24-Sep-26	14-Oct-26
MEPF Trim Out	10	24-Sep-26	07-Oct-26
Ceiling Pad	10	08-Oct-26	21-Oct-26
Casework	5	15-Oct-26	21-Oct-26
2nd Coat of Paint	10	22-Oct-26	04-Nov-26
Tackboards/Markerboards	3	05-Nov-26	09-Nov-26
Flooring	10	10-Nov-26	23-Nov-26
Projectors/Monitors Technology Trim Out	10	24-Nov-26	07-Dec-26
Cooridor Ceilings/Flooring/Finishes/MEPF Trim Out	20	30-Nov-26	25-Dec-26
Substantial Completion	0		07-Dec-26*
Punch List	15	08-Dec-26	28-Dec-26
Doors/Hardware	10	28-Dec-26	08-Jan-27
Final Cleaning	5	11-Jan-27	15-Jan-27
Owner IT Move In	5	18-Jan-27	22-Jan-27
Owner Move In	5	25-Jan-27	29-Jan-27



Actual Work
Remaining Work
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A D D E N D U M N O. 1

Smoky Row Elementary School Additions and Renovations

Carmel Clay Schools
Carmel, Indiana

Project No. 222033.00

Index of Contents

Addendum No. 1, 8 items, 3 pages
New Project Manual Section: 23 81 23 – Computer-Room Air-Conditioners and 27 51 21 – Music Room Sound System
Revised Project Manual Section: 06 42 00 – Wood Paneling, 23 09 00 – HVAC Direct Digital Controls, and 27 41 17 – Integrated AV Control System and Equipment
Revised Drawing Sheets: GD1.1, GD1.2, G1.1, G1.2, G1.3, SU1.3, CTE-GD1.0, CTE-L1.0, CTE-L1.1, CTE-L1.2, CTE-L1.3, CTE-L1.4, SRE-L1.00, SRE-L1.10, SRE-L1.20, SRE-L1.30, SRE-L1.40, S1.01, S1.04, AD0.03, AD0.04, A1.02, A1.03, A1.05, A2.01, A5.04, A5.08, A6.01, A7.01, A7.03, A7.07, A7.09, A7.10, A7S.01, A8.01, A8.02, A8.03, A8.06, A8.07, A8.08, A8.09, A8.10, A8.11, A8S.01, A9.03, A9.04, K1.03, K4.02, PD.04, P2.02, P2.03, P2.05, P2.07, P3.01, P4.02, MD1.01, MD1.02, MD1.03, MD1.04, M5.03, M5.05, ED.01, ED.02, ED.03, E3.03, E5.01, E5.02, E5.03, E8.01, and T1.01

December 19, 2025

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS

Paul A. Miller, License No. AR10800161
Expiration Date: 12/31/2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated November 20, 2025, for the Smoky Row Elementary School Additions and Renovations for Carmel Clay Schools, 5201 E. Main St., Carmel, Indiana 46033; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

A. Book 3, DIVISION 23: Change name of 23 09 00 – Instrumentation and Control for HVAC to "23 09 00 – HVAC Direct Digital Controls".

B. Book 3, DIVISION 23: Add Section 23 81 23 – Computer-Room Air-Conditioners.

C. Book 3, DIVISION 27: Add Section 27 51 21 – Music Room Sound System.

ITEM NO. 2. NEW PROJECT MANUAL SECTIONS

A. New Project Manual Sections 23 81 23 – Computer-Room Air-Conditioners and 27 51 21 – Music Room Sound System are included with and hereby made a part of this Addendum.

ITEM NO. 3. REVISED PROJECT MANUAL SECTIONS

A. 06 42 00 – Wood Paneling, 23 09 00 – HVAC Direct Digital Controls, and 27 41 17 – Integrated AV Control System and Equipment have been revised, dated 12/19/25, and are included with and hereby made a part of this Addendum.

ITEM NO. 4. PROJECT MANUAL, SECTION 10 14 19 – DIMENSIONAL LETTER SIGNAGE

A. Add 2.3, A., 8., as follows:

"8. Location: Exterior."

B. Add 2.3, B., 6., as follows:

"6. Location: Interior."

ITEM NO. 5. PROJECT MANUAL, SECTION 10 28 00 – TOILET, BATH, AND LAUNDRY ACCESSORIES

A. Delete 2.4, C., in its entirety.

ITEM NO. 6. PROJECT MANUAL, SECTION 11 40 00 – FOOD SERVICE EQUIPMENT

A. Article 3.09, Item No. 1: Replace Floor Construction Paragraph with the following:

"Floor Construction: Floor panel construction shall be prefabricated, insulated sections. General Contractor to install and level 4 inch concrete floor topping over prefabricated insulated floor panels to be flush with kitchen floor slab. Finish interior of cooler/freezer to be sealed concrete. KEC is to provide and install a stainless-steel coved base."

ITEM NO. 7. PROJECT MANUAL, SECTION 12 93 00 – SITE FURNISHINGS AND AMENITIES

A. Add 1.2, 6., as follows:

"6. Removal of existing wood seating and table tops and installation of new polyurethane plank boards on existing steel bench and picnic table frames."

B. Add Article 2.10 and 2.11 as follows:

"2.10 POLYURETHANE PLANKS

A. Material: Solid polyurethane or polyurethane-based composite formulated for exterior exposure. Uv-stabilized, non-chalking, non-splintering, and resistant to rot, decay, insects, and moisture.
1. Water absorption:</= 1% by weight (24 hours).
2. Compressive Strength: Suitable for seating applications as recommended by manufacturer.
3. Size: Thickness and width to match existing wood slats, minimum, or as indicated on Drawings. Lengths to match existing spans with minimal joints.
4. Color: As selected by Owner from manufacturer's standard color range.
5. Finish: Slightly textured, slip-resistant, edges eased or radiused for comfort.

2.11 EXISTING STEEL FRAMES

A. Existing steel bench and picnic table frames shall remain and reused where indicated on Drawings.

B. Repair and surface preparation:
1. Rust-inhibitive primer compatible with existing coatings.
2. Provide matching topcoat system for spot repairs, color to match existing as approved by Owner."

C. Add 3.2, F., G., H., I., J., K., and L., as follows:

"F. Remove existing wood table tops, bench seats, and back slats, including all fasteners and hardware.

G. Clean steel frames, remove loose rust, peeling paint, and debris.

H. Spot prime exposed bare metal and touch-up with matching topcoat in accordance with paint manufacturer's recommendations.

I. Install boards in accordance with manufacturer's written instructions and approved shop drawings.

J. Align boards with consistent overhangs and uniform gaps between boards, typicallys 1/8 inch to 1/4 inch, unless otherwise recommended by manufacturer.

K. Fastening:
   1. Pre-drill all fastener holes in boards where required by manufacturer.
   2. Attach boards to existing steel frames with specified stainless steel through-bolts, lock washers, and lock nuts.
   3. Tighten fasteners to secure boards firmly without distorting the material.

L. Tolerances:
   1. Surface Deviation: Maximum 1/8 inch in 4 feet in any direction.
   2. Maintain consistent seating and table heights across all retrofitted units."

ITEM NO. 8. REVISED DRAWING SHEETS

A. Drawing Sheets: GD1.1, GD1.2, G1.1, G1.2, G1.3, SU1.3, CTE-GD1.0, CTE-L1.0, CTE-L1.1, CTE-L1.2, CTE-L1.3, CTE-L1.4, SRE-L1.00, SRE-L1.10, SRE-L1.20, SRE-L1.30, SRE-L1.40, S1.01, S1.04, AD0.03, AD0.04, A1.02, A1.03, A1.05, A2.01, A5.04, A5.08, A6.01, A7.01, A7.03, A7.07, A7.09, A7.10, A7S.01, A8.01, A8.02, A8.03, A8.06, A8.07, A8.08, A8.09, A8.10, A8.11, A8S.01, A9.03, A9.04, K1.03, K4.02, PD.04, P2.02, P2.03, P2.05, P2.07, P3.01, P4.02, MD1.01, MD1.02, MD1.03, MD1.04, M5.03, M5.05, ED.01, ED.02, ED.03, E3.03, E5.01, E5.02, E5.03, E8.01, and T1.01 have been revised, dated 12/19/25, and is included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

SECTION 23 81 23 - COMPUTER-ROOM AIR-CONDITIONERS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following types of computer-room air-conditioning units:
   1. Floor-mounting units 6 tons and larger.
   2. Floor-mounting units 5 tons and smaller.
   3. Ceiling-mounting units.
   4. Console units.

1.2 ACTION SUBMITTALS

A. Product Data: Include rated capacities, operating characteristics, furnished specialties, and accessories.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
   1. Wiring Diagrams: Power, signal, and control wiring.

1.3 INFORMATIONAL/QUALITY ASSURANCE/CONTROL SUBMITTALS

A. Manufacturer Seismic Qualification Certification: Submit certification that computer-room air-conditioning units, accessories, and components will withstand seismic forces defined in Division 23 Section "Vibration and Seismic Controls for HVAC Piping and Equipment." Include the following:
   1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
      a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
      b. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."
   2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
   3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

B. Field quality-control test reports.

C. Warranties: Special warranties specified in this Section.

1.4 CLOSEOUT DOCUMENTS

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
   1. Operation and Maintenance Data: For computer-room air-conditioning units to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Fabricate and label refrigeration system to comply with ASHRAE 15, "Safety Code for Mechanical Refrigeration."

C. Energy-Efficiency Ratio: Equal to or greater than prescribed by ASHRAE/IESNA 90.1, "Energy Efficient Design of New Buildings except Low-Rise Residential Buildings."

D. Coefficient of Performance: Equal to or greater than prescribed by ASHRAE/IESNA 90.1, "Energy Efficient Design of New Buildings except Low-Rise Residential Buildings."

E. ASME Compliance: Fabricate and label water-cooled condenser shell to comply with ASME Boiler and Pressure Vessel Code: Section VIII, "Pressure Vessels," Division 01.

F. Units shall be designed to operate with HCFC-free refrigerants.

1.6 COORDINATION

A. Coordinate layout and installation of computer-room air-conditioning units and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

B. Coordinate installation of computer-room air-conditioning units with computer-room access flooring Installer.

C. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 07 Section "Roof Accessories."

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of computer-room air-conditioning units that fail in materials or workmanship within specified warranty period.

B. Warranty Period for Unit: Manufacturer's standard, but not less than five years from date of Substantial Completion.

1.8 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Fan Belts: One set for each belt-drive fan.
   2. Filters: One set of filters for each unit.

PART 2 - PRODUCTS

2.1 FLOOR-MOUNTING UNITS 5 TONS AND SMALLER

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Carrier Corp.
   2. Compu-Aire, Inc.
   3. Data Aire Inc.
   4. IPAC, Inc.
   5. Koldwave/Mestek.
   6. Liebert Corporation.
   7. McQuay International.
   8. Pomona Air.
   9. Stulz Investment Corp. of America.
   10. Trane Company (The); North American Commercial Group.
   11. Samsung

B. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
   1. Carrier Corp.

2. Compu-Aire, Inc.
3. Data Aire Inc.
4. IPAC, Inc.
5. Koldwave/Mestek.
6. Liebert Corporation.
7. McQuay International.
8. Pomona Air.
9. Stulz Investment Corp. of America.
10. Trane Company (The); North American Commercial Group.
11. Samsung

C. Description: Self-contained, factory assembled, prewired, and prepiped; consisting of cabinet, fan, filters, and controls; for vertical floor mounting in upflow or downflow configuration.

D. Cabinet: Welded tubular-steel frame with removable steel panels with baked-enamel finish, insulated with 1-inch thick duct liner.
1. Floor Stand: Welded tubular steel.

E. Evaporator Fan: Forward curved, centrifugal, with adjustable V-belt drive.
1. Motor: Comply with requirements in Division 23 Section "Common Motor Requirements for HVAC Equipment."
a. Noise Rating: Quiet.

F. Compressor: Hermetic, with oil strainer, internal motor overload protection, resilient suspension system, and crankcase heater.
1. Refrigeration Circuit: Low-pressure switch, manual-reset high-pressure switch, thermal-expansion valve with external equalizer, sight glass with moisture indicator, service shutoff valves, charging valves, and charge of refrigerant.

G. Evaporator Coil: Direct-expansion cooling coil of seamless copper tubes expanded into aluminum fins, with two circuits, each with solenoid valve. Mount coil assembly over stainless-steel drain pan having a condensate pump unit with integral float switch, pump-motor assembly, and condensate reservoir.

H. Air-Cooled Condenser: Integral copper-tube aluminum-fin coil with centrifugal fan, direct driven.
1. Split system shall have suction- and liquid-line compatible fittings and refrigerant piping for field interconnection.

I. Glycol Cooling Coil: Seamless copper tubes expanded into aluminum fins with three-way control valve.

J. Electric-Resistance Heating Coil: Finned-tube electric elements with contactor and high-temperature-limit switches.

K. Filter: 2-inch thick, disposable, glass-fiber media with 30 percent dust-spot efficiency.

L. Infrared Humidifier: High-intensity quartz lamps mounted above stainless-steel evaporator pan, serviceable without disconnecting water, drain, or electrical connections; prepiped and located in bypass airstream; with flush-cycle timer and solenoid drain valve.

M. Electrode Steam Humidifier: Self-contained, microprocessor-controlled unit with disposable, polypropylene-plastic cylinders and having field-adjustable steel electrodes and stainless-steel steam dispersion tube.
1. Plumbing Components and Valve Bodies: Plastic, linked by flexible rubber hosing, with water fill with air gap and solenoid valve incorporating built-in strainer, pressure-reducing and flow-regulating orifice, and drain with integral air gap on drain.
2. Control: Fully modulating to provide gradual 0 to 100 percent capacity with field-adjustable maximum capacity; with high-water probe.
3. Drain Cycle: Field-adjustable drain duration and drain interval.

N. Remote Glycol Cooler: Corrosion-resistant cabinet, copper-tube aluminum-fin coil, direct-drive propeller fan with fan guards, and single-phase motors with internal overload protection.

O. Glycol Pump Package: Weatherproof and vented enclosure of enameled, galvanized steel on structural base frame containing centrifugal pump with mechanical seal.
   1. Piping: Interconnecting piping, from suction to discharge, with shutoff valves, flow switches, unions, and pressurized expansion tank with air purge vent and system-charging connection.

P. Control System: Unit-mounted panel with main fan contactor, compressor contactor, compressor start capacitor, control transformer with circuit breaker, solid-state temperature- and humidity-control module, humidity contactor, time-delay relay, reheat contactor, and high-temperature thermostat. Provide solid-state, wall-mounting control panel with start-stop switch, adjustable humidity set point, and adjustable temperature set point.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install computer-room air-conditioning units level and plumb, maintaining manufacturer's recommended clearances. Install according to ARI Guideline B.

B. Curb Support: Install and secure roof-mounting units on curbs and coordinate roof penetrations and flashing with roof construction. Secure units to curb support with anchor bolts.

C. Install suspended components level. Coordinate wall penetrations and flashing with wall construction. Secure units to structural support with anchor bolts.

D. Install air-cooled condenser on rubber-in-shear vibration isolators.

E. Install remote glycol cooler on rubber-in-shear vibration isolators.

F. Install glycol pump package on rubber-in-shear vibration isolators.

G. Install floor-mounting units on bases designed to withstand, without damage to equipment, seismic forces required by code.

H. Support suspended units from structure using threaded steel rods and elastomeric or spring hanger having 1-inch deflection. Vibration-control devices and installation requirements are specified in Division 23 Section "Vibration and Seismic Controls for HVAC Piping and Equipment."

3.2 CONNECTIONS

A. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Install piping adjacent to machine to allow service and maintenance.

C. Water and Drainage Connections: Comply with applicable requirements in Division 23 Section "Domestic Water Piping." Provide adequate connections for water-cooled units, condensate drain, and humidifier flushing system.

D. Hot-Water Heating Piping: Comply with applicable requirements in Division 23 Section "Hydronic Piping." Provide shutoff valves in inlet and outlet piping to reheat coils.

E. Steam and Condensate Piping: Comply with applicable requirements in Division 23 Section "Steam and Condensate Heating Piping." Provide shutoff valves in steam inlet and steam trap in condensate outlet piping to heating coils.

F. Condenser-Water Piping: Comply with applicable requirements in Division 23 Section "Hydronic Piping." Provide shutoff valves in water inlet and outlet piping on water-cooled units.

G. Refrigerant Piping: Comply with applicable requirements in Division 23 Section "Refrigerant Piping." Provide shutoff valves and piping.

H. Electrical System Connections: Comply with applicable requirements in Division 26 Sections for power wiring, switches, and motor controls.

I. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."

J. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.3 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and to assist in field testing. Report results in writing.

B. Perform the following field tests and inspections and prepare test reports:
   1. Inspect for and remove shipping bolts, blocks, and tie-down straps.
   2. After installing computer-room air-conditioning units and after electrical circuitry has been energized, test for compliance with requirements.
   3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
   4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.4 STARTUP SERVICE

A. Engage a factory-authorized service representative to perform startup service.

B. Verify that computer-room air-conditioning units are installed and connected according to manufacturer's written instructions and the Contract Documents.

C. Verify that electrical wiring installation complies with manufacturer's submittal and installation requirements in Division 26 Sections.

D. Complete installation and startup checks according to manufacturer's written instructions.

E. After startup service and performance test, change filters and flush humidifier.

3.5 ADJUSTING

A. Adjust initial temperature and humidity set points.

B. Set field-adjustable switches and circuit-breaker trip ranges as indicated.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain computer-room air-conditioning units. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 23 81 23

SECTION 27 51 21 – MUSIC ROOM AUDIO SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This section includes, but is not limited to:
   1. Mic/Audio Input Panel
   2. Media Player
   3. Mixer/Amplifier
   4. Audio Processor
   5. Amplifier
   6. Speakers
   7. Miscellaneous items such as cables, brackets, connectors, etc.

B. Related sections include the following:
   1. Division 01, General Requirements
   2. Division 27, Communications

1.3 QUALITY ASSURANCE

A. The Projector Audio System Contractor shall have minimum of 2 years experience in the installation of this type of system.

B. Provide labeling per ANSI/EIA/TIA-606 requirement and in accordance with the Owner and Technology Consultant.

1.4 CODE

A. Must meet Federal Communications standards.

B. Must meet National Fire Protection Association standards.

C. Must meet National Electrical Code.

D. Must be UL listed.

E. Americans with Disabilities Act.

F. Latest edition of the Telecommunications Distribution Methods Manual (TDMM).

1.5 WARRANTY

A. Components, parts, and assemblies supplied by the Projector Audio System Contractor shall be warranted against defects in materials and workmanship for a period as specified in Specification Section 270111 - Demonstration, Training and Warranty for Communications Systems.

B. All repairs shall be completed by a Factory-Trained Certified Service Technician.

1.6 SUBMITTALS

A. Provide product data and drawings for the following:
   1. Mic/Audio Input Panel
   2. Media Player
   3. Mixer/Amplifier
   4. Audio Processor
   5. Amplifier
   6. Speakers
   7. Miscellaneous items such as cables, brackets, connectors, etc.
   8. Cabling interconnection drawings

B. See front end submittals section for more information.

C. See Specification Section 270500 - Common Work Results for Communications Section for additional submittal requirements.

1.7 OWNER INSTRUCTION

A. Provide training and operating instructions as required in Specification Section 270111 – Demonstration, Training and Warranty of Communications Systems.

1.8 RECORD/OPERATION AND MAINTENANCE MANUAL

A. Provide record drawings and operation and maintenance manuals, as required in Specification Section 270100 – Operation and Maintenance of Communications Systems and Specification Section 270500 - Common Work Results for Communications Systems.

PART 2 - PRODUCTS

2.1 MIC/AUDIO INPUT PANEL

A. 1 RU 8-Channel Rack Panel

B. 8 Neutrik panel connectors custom configured

C. Approved Manufacturer:
   1. Liberty
   2. Pro Audio LA
   3. Approved Equal

2.2 MEDIA PLAYER WITH BLUETOOTH

A. Bluetooth 5.0 pairing

B. Slot-loading CD transport

C. USB host port for file playback

D. 3.5mm AUX input for playback from portable players

E. Compact IR remote control included

F. Balanced (XLR) and unbalanced (RCA) outputs

G. Basis of Design:
   1. Denon – DN-500CB

2.3 MICROPHONE AND AUDIO MIXER

A. 6 HDHQ™ Combination inputs with MIC, Phantom and Line selector switches

B. 6 mono (3 stereo) RCA Inputs

C. Mic monitor 1/4” output for private listening of all mic inputs

D. Balanced XLR line outputs

E. Mono 1/4” line output can be used to feed audio to external recording device

F. Basis of Design:
   1. Denon – DN-312X.

2.4 AUDIO PROCESSOR

A. Analog Input Channels: 2

B. Analog Output Channels: 6

C. AD Converters: 24 Bit @ 48 kHz 118 dBA Dynamic Range

D. DA Converters: 24 Bit @ 48 kHz 118 dBA Dynamic Range

E. Internal Precision: 32 Bit, 64 Bits Double Precision

F. Latency: 1 MS

G. Delay: 50ms per input / 135ms per output

H. Equalizer: Bell, Lo/Hi-Shelving, Hos

I. Basis of Design:
   1. D.A.S. Audio INTEGRAL-M26X

2.5 AUDIO AMPLIFIER

A. Extremely low noise, convection cooled

B. Extensive protection circuitry including output overcurrent protection,

C. DC output protection, main supply rail overvoltage protection,

D. internal chassis temperature monitoring, in-rush limiting and mains fuse

E. Level attenuators with level control

F. Signal present and clip alert status LEDs

G. 2-channel versions have a stereo headphone jack

H. Basis of Design:
   1. Ashly – SRA-4150

2.6 CEILING LOUDSPEAKERS (Provide Quantity Shown on Drawings)

A. Full range ceiling loudspeaker for installation applications

B. 90 Watts continuous, 360 Watts peak power

C. Next generation 8" Dual Concentric driver featuring Omni magnet technology

D. UL 1480 certified for general signaling systems

E. UL 2043 certified for air-handling spaces

F. Multiple transformers taps for 70 V and 100 V line systems or 16 Ohm direct input when used with the optional CMS 603 PI BACKCAN.

G. Basis of Design:
1. Tannoy – CMS-803DC-PI

2.7 CABLES

A. Speaker cable shall be #20 AWG, unshielded, UL listed, ASTM bare copper, polymer alloy insulation, with a flexible plenum rated jacket.

B. Approved Manufacturer:
1. West Penn Model 25226B
2. Belden
3. Ortronic
4. Berktek

2.8 LOOSE MATERIAL

A. Ensemble Microphone (Quantity 2)
1. Approved Manufacturer:
   a. Shure Model SM81 series.
   b. AKG Acoustics C1000S-series.
   c. Electro-Voice, Inc. RE510 series
   d. Sennheiser Electronic Corporation.
   e. Audio-Technicam AE5100 series
2. Provide ensemble microphone, as follows:
   a. Unidirectional condenser microphone.
   b. Steel construction with stainless steel hardware.
   c. Balanced, transformer coupled, male XLR-type connector.
   d. Frequency Response: 20 to 20,000 Hz.
   e. Rated Impedance: 150 ohms.
   f. Signal-to-Noise Ration: 78 dB at 98 dB SPL.
   g. Sensitivity at 1000 Hz: Minus 45 dBV per Pascal.
   h. Clipping Level at 1000 Hz: Minus 4 dBV into 800 ohm load.
   i. Total Harmonic Distortion: Less than 0.5 percent (131 dB SPL at 250 Hz into 800 ohm load.)
   j. Storage case.
3. Accessories
   a. Windscreen
   b. Cable
   c. Snap in stand clamp.
   d. Floor stand with boom arm

2.9 WIRELESS MICROPHONES

A. Approved Manufacturer:
1. Shure Model ULXS124/85 series
2. Audio Technica, 3000 series
3. Sennheiser Electronic Corporation, G2 300 series
4. Telex Communications, Inc. FMR500L w/WT60 belt packs etc.
5. EVI FMR-500HL/FMR-500 series

B. Provide combination wireless systems as follows:
1. Professional wireless receivers.
2. Wireless body pack transmitter.
3. Cardioids microphone.
4. Lavaliere condenser microphone.
5. Provide one receiver and transmitter for each microphone.
6. Systems in the 600 MHz service band are not acceptable.

2.10 MOBILE EQUIPMENT RACK

A. Depth - 27.37 in (69.5 cm)

B. Height - 26.95-42.03 in (68.45-106.76 cm)

C. Panel Width - 19 in (48.3 cm)

D. Rack Units - 12 RU

E. UL Load Capacity - 250 lbs (113.4 kg)

F. Usable Depth - 23.19 in (58.9 cm)

G. Usable Height - 21.16-35.16 in (53.75-89.31 cm)

H. Width - 22.63 in (57.5 cm)

I. Basis of Design:
1. Middle Atlantic - MFR-1227GE

PART 3 - EXECUTION

3.1 INSTALLATION

A. The classroom projector shall be integrated into the audio system and shall be installed by a trained technician.

B. The audio system shall be installed in accordance with the manufacturer's recommendations.

C. The audio system shall be connected to the video display devices in the room with patch cords furnished by this contractor.

D. Tap the speakers at 4 watts or as recommended by the manufacturer.

E. Provide surface raceways, junction boxes, fittings, patch cords, conduits required for a complete installation.

F. This Contractor shall be responsible for cutting ceiling tile to install the projector audio system speakers. Coordinate with the Ceiling Contractor.

G. Provide audio system in the Music Room as shown on the drawings.

3.2 CLEANUP

A. After the audio system is installed and tested, all the unused material and debris must be removed from the area.

END OF SECTION 27 51 21

SECTION 06 42 00 - WOOD PANELING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following Wood Walls:
   1. Tongue and Groove Wood Cladding System
      a. Wood trim and accessories.
      b. Installation on walls and millwork assemblies.
   2. Shop finishing of wood panels.
   3. Wood furring, blocking, shims, and hanging strips for installing flush wood paneling unless concealed within other construction before paneling installation.

B. Related Sections include the following:
   1. Division 06 Section "Rough Carpentry" for wood furring, blocking, shims, and hanging strips required for installing paneling and that are concealed within other construction before paneling installation.

1.2 DEFINITIONS

A. Paneling includes wood furring, blocking, and shims for installing paneling, unless concealed within other construction before paneling installation.

1.3 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that paneling can be installed as indicated.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Meeting: Conduct meeting at Project site.

1.5 ACTION SUBMITTALS

A. Product Data: For panel products, trim, installation accessories, and finishing materials and processes.

B. Shop Drawings: Show location of paneling, large-scale details, attachment devices, and other components. Include dimensioned plans and elevations.
   1. Show details full size.
   2. Show locations and sizes of furring and blocking, including concealed blocking specified in other Sections.
   3. For paneling produced from premanufactured sets, show finished panel sizes, set numbers, sequence numbers within sets, and method of cutting panels to produce indicated sizes.
   4. For paneling veneered in fabrication shop, show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.

C. Samples for Verification:
   1. Lumber with or for transparent finish, not less than 5 inches wide by 8 inches long, for each species and cut, finished on 1 side and 1 edge.
   2. Veneer-faced panel products with or for transparent finish, 8 by 10 inches, for each species and cut. Include at least one face-veneer seam and finish as specified.

1.6 QUALITY ASSURANCE

A. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of paneling and interior architectural wood work.

B. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards" for grades of paneling indicated for construction, finishes, installation, and other requirements.

C. Composite wood products shall be labeled or show compliance with the Toxic Substances Control Act (TSCA) Title VI.

D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
   1. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver paneling until painting and similar operations that could damage paneling have been completed in installation areas. If paneling must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install paneling until building is enclosed, wet work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.

B. Field Measurements: Where paneling is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
   1. Locate concealed framing, blocking, and reinforcements that support paneling by field measurements before being enclosed and indicate measurements on Shop Drawings.
   2. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating paneling without field measurements. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

C. Do not install materials that are wet, moisture damaged, or mold damaged.
   1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
   1. ***Tongue and Groove Wood Cladding System Manufacturers***: Subject to compliance with requirements, provide products by one of the following:
      a. Windfall Architectural Products

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. The “Substitution Request Form” and complete technical data for evaluation must accompany requests for A/E’s approval. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.2 MATERIALS

A. General: Provide materials that comply with requirements of AWI's quality standard for quality grade specified, unless otherwise indicated.
   1. Provide from AWI certification program indicating that paneling, including installation, complies with requirements of grades specified.
   2. The Contract Documents may contain selections chosen from options in the quality standard and additional requirements beyond those of the quality standard. Comply with those selections and requirements in addition to the quality standard.

B. Wood Products: Comply with the following:
   1. Medium-Density Fiberboard: ANSI A208.2, Grade 130.
   2. Particleboard: ANSI A208.1, Grade M-2.
   3. Softwood Plywood: DOC PS 1, Medium Density Overlay.
   4. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1, made with adhesive containing no urea formaldehyde.

C. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with applicable rules of any rules-writing agency certified by the American Lumber Standard Committee’s (ALSC) Board of Review. Grade lumber by an agency certified by the ALSC’s Board of Review to inspect and grade lumber under the rules indicated.
   1. NeLMA: Northeastern Lumber Manufacturer’s Association, “Standard Grading Rules for Northeastern Lumber”.
   2. NHLA: National Hardwood Lumber Association, “Rules for the Measurement and Inspection of Hardwood and Cypress”.
   3. NLGA: National Grades Authority, “Standing Grading Rules for Canadian Lumber”.
   4. SPIB: The Southern Pine Inspection Bureau, “Standard Grading Rules for Southern Pine Lumber”.
   5. WCLIB: West Coast Lumber Inspection Bureau, Standard No. 17, “Grading Rules”.
   6. WWPA: Western Wood Products Association, “Western Lumber Grading Rules”.

D. Provide solid wood boards or wood veneer boards.

E. Adhesives: Do not use adhesives that contain urea formaldehyde.

2.3 INSTALLATION MATERIALS

A. Furring, Blocking, Shims, ~~*and Hanging Strips*~~: Fire-retardant-treated softwood lumber, kiln dried to less than 15 percent moisture content.

B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

~~*C. Spline-Mounting Accessories: Manufacturer's standard concealed, extruded-aluminum connecting splines designed and fabricated for screw attachment to walls, with other moldings and trim for interior and exterior corners, leveling and base support with factory-applied finish on exposed items.*~~
   ~~*1. Spline mounting accessories shall be fully concealed.*~~
   ~~*2. Corner splines configured for application of decorative wood corner.*~~

~~*D. Back-Mounting Devices: Concealed on backside of panel, recommended to support weight of panel, with base-support bracket system where recommended by manufacturer for additional support of panels, and as follows:*~~

~~*1. Metal "Z" Clips: Two-part panel clips, with one part of each clip mechanically attached to back of panel and the other part to wall substrate, designed to allow for panel removal.*~~

~~*2. As recommended by manufacturer.*~~

2.4 TONGUE AND GROOVE WOOD CLADDDING SYSTEMS (WDW-1)

A. Tongue and Groove Wood Cladding: Hardwood cladding, Western Maple.

1. Fire Rating: Class C minimum.
2. Size: Manufacturer's standard for the selection noted on List of Finishes.
3. Thickness: 9/16 inch.
4. Edge: Square with micro-bevel and tongue and grove profile.
5. Length: Manufacturer's standard random lengths.
6. Lumber Trim and Edges: At paneling fabricator's option, trim and edges indicated as solid wood (except moldings) may be either lumber or veneered construction of same species and cut as panel faces and compatible with grain and color of panel faces.
7. Finish: Manufacturer's standard or matt water based lacquer.
8. Basis of Design Product, Species, and Color: Refer to List of Finishes.

2.5 FABRICATION, GENERAL

A. Paneling Grade: Provide Custom grade paneling complying with referenced quality standard.

B. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.

C. Sand fire-retardant-treated wood lightly to remove raised grain on exposed surfaces before fabrication.

D. Complete fabrication, including assembly and finishing, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

1. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on approved Shop Drawings before disassembling for shipment.

E. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

F. Decorative Wood Corners: Solid wood in matching species configured for installation with concealed corner splines with hidden fasteners. Provide at vertical and horizontal outside corners.

2.6 SHOP FINISHING

A. Grade: Provide finishes of same grades as paneling to be finished.

B. Shop Priming: Shop apply the prime coat including backpriming, if any, for transparent-finished paneling specified to be field finished. Refer to Division 09 painting Sections for material and application requirements.

C. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing paneling, as applicable to each unit of work.
   1. Backpriming: Apply two coats of sealer or primer, compatible with finish coats, to concealed surfaces of paneling.

D. Transparent Finish:
   1. Grade: Custom.
   2. AWI Finish System: 5, Conversion varnish.
   3. Staining: Match A/E's sample.
   4. Wash Coat for Stained Finish: Apply wash-coat sealer to woodwork made from closed-grain wood before staining and finishing.

PART 3 - EXECUTION

3.1 PREPARATION

A. Before installation, condition paneling to average prevailing humidity conditions in installation areas.

B. Before installing paneling, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

3.2 INSTALLATION, GENERAL

A. Grade: Install paneling to comply with requirements for same grade specified in Part 2 for fabrication of type of paneling involved.

B. Install boards and paneling level, plumb, true, and straight with no distortions. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches. Install with no more than 1/16 inch in 96-inch vertical cup or bow and 1/8 inch in 96-inch horizontal variation from a true plane.
   1. For tongue and groove cladding install with nails and adhesive in compliance with manufacturer’s written installation instructions.
      a. Installation via manufactured panels is acceptable if recommended by manufacturer.
   2. Countersink fasteners, fill surface flush, and sand where face fastening is unavoidable.

C. Scribe and cut paneling to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

~~*D. Anchor paneling to supporting substrate with concealed panel hanger clips. Do not use face fastening unless covered by trim.*~~

E. Complete finishing work specified in this Section to extent not completed at shop or before installation of paneling. Fill nail holes with matching filler where exposed. Apply specified finish coats, including stains and paste fillers if any, to exposed surfaces where only sealer/prime coats are applied in shop.

F. Wood Paneling: Select and arrange panels on each wall to minimize noticeable variations in grain character and color between adjacent panels. Leave 1/4-inch gap to be covered with trim at top, bottom, and openings. Install with uniform tight joints between panels.
   1. Attach panels to supports with manufacturer's recommended fasteners. Space fasteners as recommended by panel manufacturer.
   2. Conceal fasteners.
   3. Install according to manufacturer's written instructions. Arrange in random-width pattern suggested by manufacturer unless boards or planks are of uniform width.
   4. Install in full lengths without end joints.
   5. Stagger end joints in random pattern to uniformly distribute joints on each wall.

6. Select and arrange boards on each wall to minimize noticeable variations in grain character and color between adjacent boards. Install with uniform tight joints between boards.

3.3 ADJUSTING AND CLEANING

A. Repair damaged and defective paneling, where possible, to eliminate functional and visual defects; where not possible to repair, replace paneling. Adjust for uniform appearance.

B. Clean paneling on exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION 06 42 00

SECTION 23 09 00 – HVAC DIRECT DIGITAL CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Provisions of the General Conditions, Supplementary Conditions, Sections included under Division 01, General Requirements, and Section 230500 of this Division are included as a part of this Section as though bound herein.

B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

C. Refer to the details and schedules on the Drawings for additional requirements.

1.2 SUMMARY

A. Contractor shall integrate existing engagement inputs from the existing control system to allow for continuous operation of the existing building from the new DDC heating and cooling controllers

B. The contractor shall furnish and install a fully integrated building automation system, incorporating direct digital control (DDC) for energy management, equipment monitoring and control, and subsystems as herein specified. The installation of the control system shall be performed under the direct supervision of the controls manufacturer with the shop drawings, flow diagrams, bill of materials, component designation or identification number, and sequence of operation all bearing the name of the manufacturer. The installing contractor shall certify, in writing, that the shop drawings have been prepared by the equipment manufacturer and that the equipment manufacturer shall certify, in writing, that the shop drawings were prepared by their company and that all temperature control equipment was installed under their direct supervision.

1. Temperature Control System Contractor shall provide hardware and system software based on server/thin-client architecture for replacement of existing buildings systems with fully programmable, customized installations as described herein, and for a current open design of secured standards web based technology. Temperature Control System shall provide an open protocol framework with fully programmable BACnet Master-Slave / Token-Pass (MS/TP) and Internet Protocol (IP) field level controllers for complete, interoperable operability via single web based Graphical User Interface. Additionally, system shall offer concurrent support over the same data-link of the following protocols: MODBUS, and SNMP. Server shall be accessed using a common web browser via customer intranet and/or standard Internet access point.
    a. Intent of the thin-client architecture is to provide operator(s) complete access to Temperature Control System via common internet web browser. Thin-client web browser Graphical User Interface (GUI) shall be browser and operating system agnostic, meaning it will support current versions of common internet web browsers, such as but not limited to (in alphabetical order) Google Chrome™, Microsoft Edge™, Mozilla Foxfire™, Opera™, and Safar™i; Microsoft Windows™ as well as non-Microsoft operating systems. No special software, (active-x components or fat java clients) shall be required to be installed on the PC's / PDA's used to access Temperature Control System via internet web browser.
    b. Temperature Control System server software shall support, but is not limited to the most current versions of the following server platforms (in alphabetical order) Linux, Microsoft Windows, and Sun Microsystems Solaris. Temperature Contractor is responsible to confirm and conform to building owner server platform. Temperature Control System server software shall be developed and

tested by the manufacturer of the system standalone controllers and network controllers/routers. Third party manufactured and developed Temperature Control System software is not acceptable.

c. The web browser GUI shall provide a completely interactive user interface and must offer the following features as a minimum:
    1) Building floor layouts with zoned thermal graphic representation of space conditions and areas of alarm.
    2) Real time animated graphics of dynamic equipment operation.
    3) Scheduling of independent system and zone operation usage conditions.
    4) System alarm signaling via operator selectable real time on screen browser, e-mail, pager, mobile smartphone, or personal digital assistant (PDA).
    5) Multi-level, zone specific, password secured user authority configurations for an unlimited number of continuous operators.
    6) Owner modifiable system/sequence programs.
    7) Downloading/uploading information to/from field control devices.
    8) Global and unitary command, parameter, property, and set point adjustable.
    9) Operator selectable software tree navigation.

2. Temperature Control System Contractor or otherwise indicated as Contractor herein shall furnish and install a fully integrated Temperature Control System comprised of a network of interoperable stand-alone digital controllers communicating on an open protocol communication network accessible computer via secure internet connection.
3. All materials and equipment used shall be standard components, regularly manufactured for the specified system. All systems and components shall have been thoroughly tested and proven in actual use of at least 5 years.
4. Contractor shall be responsible to:
    a. Provide a complete electronic direct digital control system consisting of BACnet application specific controllers able to provide automated heating, ventilation and air conditioning systems sequencing and control for building comfort, energy efficiency, and health related purposes.
    b. Provide control of heating, ventilating and air-conditioning (HVAC) equipment including, but not limited to chillers, boilers, air-handlers, fans, terminal units, heaters, pumps, control damper and valve actuators, etc; as are denoted on drawings.
    c. Provide Application Specific Controllers (ASCs) and Programmable Control Units (PCUs) as specified herein. Provide I/O and ancillary devices as specified herein, and as necessary to perform the sequences of operation. Provide BACnet Framework-based certified products that communicate on MS/TP channels to meet the functional specifications including, but not limited to actuators for dampers and valves, relay/starter switches, measurement devices, limit switches, etc. and other control point related devices described herein to meet the system sequence requirements as described in section.
    d. Provide power and communication wiring to control devices.
    e. Provide wiring and interlock wiring for control devices as required for operation.
    f. Provide control device mounting hardware as required for control device installations in the pipe and duct installations such as, but not limited to, thread-o-lets, thermo-wells, and etc.
    g. Provide supervision of related work performed by others to insure proper installation and operation of the completed product.
    h. Installation verification and functionality testing of completed installation.
    i. Install code compliant control panel(s) with electrical power and/or data connection(s). Coordinate work with the Division 26 Contractor.
        1) Provide low voltage step-down transformers, power supplies and power/communication/input/output cabling necessary for the control system.

2) Install conduit, junction boxes, fittings, panels, enclosures, and hardware as specified herein and on the drawings.

j. Provide a 5 year Service Maintenance Agreement (SMA) for software upgrades for all software and hardware contained within this specification. Include all time, material, and labor costs associated with the SMA.

5. Contractor shall read all other Drawings and Specifications, become familiar with requirements and Project Scope, and include such coordination work as may be required.

6. Related Sections include the following:
   a. List below only products, construction, and equipment that the reader might expect to find in this Section but are specified elsewhere.
   b. Division 23 Section "Meters and Gauges for HVAC Piping" for measuring equipment that relates to this Section.
   c. Division 23 Section "Sequence of Operations for HVAC Controls" for requirements that relate to this Section.
   d. Division 23 Section "HVAC Systems Control Points Lists" for requirements that relate to this Section.

1.3 DEFINITIONS

A. General Terminology:
   1. DDC: Direct digital control.
   2. IP: Internet Protocol.
   3. I/O: Input/output.
   4. MS/TP: Master-slave/token-passing.
   5. PC: Personal computer.
   6. PID: Proportional plus integral plus derivative.
   7. RTD: Resistance temperature detector.

1.4 SYSTEM ARCHITECTURE

A. System shall provide and incorporate hardware and software resources sufficient to meet the functional requirements of these Specifications. Facility Local Area Network and Device Level Network shall be based on industry standard open platforms as specified herein and utilize commonly available operation, management and application software. All software packages and databases shall be licensed to the Owner to allow unrestricted maintenance and operation of the Temperature Control System. Contractor shall include all items not specifically itemized in these Specifications that are necessary to implement, maintain, and operate the system in compliance with the functional intent of these Specifications.

B. System architecture shall expand on the existing and implement new building Temperature Control System based on BACnet Protocol and consists of an Ethernet-based, wide area network, a single Local Area Network that supports Network Controllers (NCs), Programmable Control Units (PCUs), Application Specific Controllers (ASCs), Operator Workstations (OWS), Smart Devices (SD), and Remote Communication Devices (RCDs) as applicable.
   1. WAN: Internet-based network connecting multiple facilities with a central data warehouse and server, accessible via standard web-browser. This is an existing infrastructure and Contractor is not required to configure any components the WAN.
   2. Facility Local Area Network (FAC LAN): FAC LAN shall be an Ethernet-based, 10/100/1000 Ethernet LAN connecting Local NCs, Temperature Control System Server and OWSs. FAC LAN serves as the backbone for the NCs communications path. Contractor shall provide a FAC LAN as a dedicated LAN for control system. LAN shall be IEEE 802.3 Ethernet Category 6 cable with switches and routers that support 1000base-T gigabit Ethernet throughput.
   3. ARCnet and/or Token-Ring based FAC LANs and DLNs are not acceptable.

C. Remote Data Access: System shall support the Internet Browser-based remote access to the building data. Temperature Control System Contractor shall coordinate with the Owner's IT department to insure all remote browser access (if desired by the owner) is protected with the latest Software updates and a VPN (Virtual Private Network) must be installed to protect the owner's network from cyber attacks.

D. Browser-based access: A remote/local user using a standard browser will be able access all control system facilities and graphics via the WAN or direct connection, with proper username and password. Only native Internet browser-based user interfaces (HTML5, Java, XML, CCS3 JAVA Script, etc.) that do not require plug-ins (thin clients) are acceptable. The system shall be capable of supporting an unlimited number of clients using a standard Web browser.

E. Communication speed between controllers, LAN interface devices, CSS, and operator interface devices shall be sufficient to ensure fast system response time under any loading condition.

F. Control Systems Server (CSS): Server that maintains systems configuration and programming database. It shall allow secure multiple-access to the control information.

G. Systems Configuration Database: The system architecture shall support maintaining the systems configuration database on a server that resides on the FAC LAN. User tools for DLN and FAC LAN management shall be provided and licensed to the Owner and shall allow unrestricted configuring, updating, maintaining, and expanding of all current devices, configurations and settings.

H. Database Schema shall be published and provided to the Owner to facilitate easy access to DLN and FAC LAN data.

1.5 SYSTEM PERFORMANCE

A. Comply with the following performance requirements:
   1. Graphic Display: Display graphic with minimum 20 dynamic points with current data within five (5) seconds.
   2. Graphic Refresh: Update graphic with minimum 20 dynamic points with current data within three (3) seconds.
   3. Object Command: Reaction time of less than one (1) second between operator command of a binary object and device reaction.
   4. Object Scan: Transmit change of state and change of analog values to control units or workstation within six seconds.
   5. Alarm Response Time: Annunciate alarm at workstation within thirty (30) seconds. Multiple workstations must receive alarms within five seconds of each other.
   6. Program Execution Frequency: Run capability of applications as often as five seconds, but selected consistent with mechanical process under control.
   7. Performance: Programmable controllers shall execute DDC PID control loops, and scan and update process values and outputs at least once per second.
   8. Reporting Accuracy and Stability of Control: Report values and maintain measured variables within tolerances as follows:
      a. Water Temperature: +/-1 deg F
      b. Water Flow: +/-3 percent of full scale.
      c. Water Pressure: +/-2 percent of full scale.
      d. Space Temperature: +/-1 deg F
      e. Ducted Air Temperature: +/-1 deg F
      f. Outside Air Temperature: +/-1 deg F
      g. Dew Point Temperature: +/-1 deg F
      h. Temperature Differential: +/-0.25 deg F
      i. Relative Humidity: +/-2 percent.

j. Airflow (Pressurized Spaces): +/-3 percent of full scale.
k. Airflow (Measuring Stations): +/-5 percent of full scale.
l. Airflow (Terminal): +/-5 percent of full scale.
m. Air Pressure (Space): +/-0.01-inch wg
n. Air Pressure (Ducts): +/-0.1-inch wg
o. Carbon Monoxide: +/-5 percent of reading.
p. Carbon Dioxide: +/-50 ppm.
q. Electrical: +/-5 percent of reading.

1.6 SUBMITTALS

A. Product Data: Include manufacturer's technical literature for each control device. Indicate dimensions, capacities, performance characteristics, electrical characteristics, finishes for materials, and installation and startup instructions for each type of product indicated.
1. Retain three subparagraphs below for DDC systems.
2. DDC System Hardware: Bill of materials of equipment indicating quantity, manufacturer, and model number. Include technical data for operator workstation equipment, interface equipment, control units, transducers/transmitters, sensors, actuators, valves, relays/switches, control panels, and operator interface equipment.
3. Control System Software: Include technical data for operating system software, operator interface, color graphics, and other third-party applications.
4. Controlled Systems: Instrumentation list with element name, type of device, manufacturer, model number, and product data. Include written description of sequence of operation including schematic diagram.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
1. Bill of materials of equipment indicating quantity, manufacturer, and model number.
2. Schematic flow diagrams showing equipment, dampers, valves, and control devices.
3. Wiring Diagrams: Power, signal, and control wiring.
4. Details of control panel faces, including controls, instruments, and labeling.
5. Schedule of dampers including size, leakage, and flow characteristics.
6. Schedule of valves including flow characteristics.
7. DDC System Hardware:
a. Wiring diagrams for control units with termination numbers.
b. Schematic diagrams and floor plans for field sensors and control hardware.
c. Schematic diagrams for control, communication, and power wiring, showing trunk data conductors and wiring between operator workstation and control unit locations.
8. Control System Software: Graphical lists indicating monitored systems, data (connected & calculated) point addresses, output schedules, and operator notations.
9. Controlled Systems:
a. Schematic diagrams of each controlled system with control points labeled and control elements graphically shown, with wiring.
b. Scaled drawings showing mounting, routing, and wiring of elements including bases and special construction.
c. Written operational sequences including schematic diagram.
d. Points listing.

C. Data Communications Protocol Certificates: Certify that each proposed DDC system component complies with ASHRAE 135.

D. Software and Firmware Operational Documentation: Include the following:
1. Software operating and upgrade manuals.
2. Program Software Backup: On DVD disc, complete with data files.

3. Device address list.
4. Printout of software application and graphic screens.
5. Software license required by and installed for DDC workstations and control systems.

E. Software Upgrade Kit: For Owner to use in modifying software to suit future systems revisions or monitoring and control revisions.

F. Coordinate paragraph below with qualification requirements in Division 01 Sections.

G. Operation and Maintenance Data: For HVAC instrumentation and control system to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
1. Interconnection wiring diagrams identified with system components and devices.
2. Keyboard illustrations and step-by-step procedures indexed for each operator function.
3. Inspection period, cleaning methods, cleaning materials, and calibration tolerances.
4. Calibration records and list of set points.

1.7 QUALITY ASSURANCE

A. General Conditions:
1. Electrical components shall be UL listed.
2. Energy management components shall comply with NEMA EMCI.
3. Electrical requirements shall meet NFPA 70.
4. Installation as a part of the HVAC system shall comply with NFPA 90A.
5. System installation shall allow for application of the “BACnet” protocol to meet requirements of ASHRAE 135.
6. Control systems shall meet the requirements of ASHRAE Standard 90.1.

1.8 CONTRACTOR RESPONSIBILITIES

A. Temperature Control Contractor shall be responsible to:
1. Provide submission of drawings, component lists, specification sheets and sequences of operation to the Engineer for approval before start of installation.
2. Provide final design drawings, installation of all control wiring and control devices in accordance with National Electric Code. The temperature control contractor shall also be responsible for startup and complete checkout of the systems.
3. Provide electronic sets of drawings, parts lists, product specification, operation and maintenance manuals to the mechanical contractor for delivery to the Owner.
4. Provide DDC logic diagrams for “as-builts” and included in the Operation and Maintenance Manuals for the Owner.
5. Use all room numbers developed and approved by the school district in the development of the Temperature Control System for this building.
6. The Contractor is to provide sufficient memory and network capacity in the building controller to support a 25 percent expansion of the control system.
7. The Contractor is responsible to label all temperature control system sensors, control panels, control dampers and operators, and control valves and operators. Label names shall match the point names of the control system and on the as-built drawings.
8. The Contractor shall provide the Owner with all necessary software and licenses so the Owner has the ability to change all set points, schedules, and programs for the life of the system even if it is a completely independent piece of software.
9. Contractor shall be responsible for the accurate location of their Work and for informing themselves of the nature and arrangement of the materials, equipment, and construction to which their Work attaches or passes through.
10. In general, work shall be concealed in walls in conduit and above ceilings in wire management systems, conduit in chases, and in equipment rooms, insofar as is

practical; so that such work will not interfere with the proper coordinated installation work of other trades or Contractors.

1.9 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Combination Temperature/CO2 Sensors: Qty of 6/building.
   2. Flat Plate Temperature Sensors: Qty of 2/building.
   3. Terminal/Unitary Equipment 1/2" Valve Actuator: Qty of 2/building.
   4. Terminal/Unitary Equipment 3/4" Valve Actuator: Qty of 2/building.
   5. Terminal/Unitary Equipment 1" Valve Actuator: Qty of 2/building.
   6. Sensor Guards: Qty of 6/building.
   7. Wall Mounted Humidity Sensors: Qty of 2/building.
   8. Wall Mounted Pressure Sensors: Qty of 2/building.
   9. Liquid Temperature Sensor: Qty of 2/building.
   10. Duct Temperature Sensor: Qty of 1/building.
   11. Low voltage transformers: 1 of each installed size per building.

1.10 PROJECT CONDITIONS

A. Contractor shall be responsible for:
   1. Accurately locating installation components and coordination with other trades for the appropriate installation of their materials.
   2. Concealment of cable within conduit or wire management systems; so that installation will fully function without interference from other services.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Temperature Control Contractor shall have 15-years minimum experience with same size, or larger, and type of control system installations.

B. Manufacturers: Subject to required compliance, provide products by one of the following manufactures and installed by that manufacturer's authorized installer:
   1. Grantham
   2. Siemens Factory Branch.

2.2 DAMPERS

A. Dampers intended for automatic control, unless part of a factory made unit, shall be furnished by the temperature control contractor. Automatic dampers installed in unitary equipment furnished by the manufacturer shall be checked for proper size and design by the Contractor. Should any features of these dampers appear to be unsatisfactory, full details shall be given to the Engineer, in writing, and suggestions made for necessary corrections.

B. Return Air Dampers
   1. Return air dampers, unless otherwise specified, shall be "low leakage" dampers, and shall be designed for tight shut-off such that for a 1500 FPM damper, leakage does not exceed 1.7 CFM at 1 inch W.G. differential static pressure.
   2. Damper frame shall be 4" deep constructed of extruded aluminum (6063T5) not less than .080 (2.03mm) inches thick.
   3. Damper Blades shall be constructed of extruded aluminum (6063T5) and airfoil design. Aluminum end caps shall be press fitted to the blade ends.

4. Silent closing replaceable silicone seals shall be provided on each blade and on all four sides of the frame. Louver linkage to be concealed in frame channel outside of the air stream. Bearings shall be constructed of a celcon inner bearing fixed to a 7/16" aluminum hexagon type blade pin rotating within a polycarbonate outer bearing inserted in the frame, resulting in no metal to metal contact or metal to plastic contact.
5. Blade and frame seals shall be secured in an integral slot within the aluminum extrusions.
6. Linkage hardware shall be installed in the frame side and constructed of aluminum and corrosion resistant, zinc-plated steel, complete with cup-point trunnion screws for a slipproof grip.
7. Modulating dampers shall be opposed blade type.
8. Whenever practicable, damper size shall be based on 1000 to 1500 FPM air velocity.
9. Dampers shall be designed to operate in temperature ranges from –40 degrees F and 212 degrees F.

C. Outside Air and Relief Air Dampers
1. Automatic dampers used for outside air and relief air applications shall have similar type of construction as described above for return air dampers, but shall include extruded aluminum blade shell internally insulated with expanded polyurethane foam and thermally broken.
2. Damper frame shall be extruded aluminum, minimum 4" deep and insulated with Styrofoam on all four sides of the damper.
3. Blade and frame seals shall be extruded silicone and secured in an integral slot within the aluminum extrusions.
4. Dampers shall not exceed 4 cfm per sq. ft. against 4" w.g. and shall be AMCA Rated.
5. Standard control dampers are not acceptable in outside air and relief air applications to avoid possible freeze conditions.

2.3 PRESSURE DEPENDENT CONTROL VALVES

A. Valves shall be as indicated on the project drawings and/or within Section 230993 for the purposes of coil capacity modulation control at the specifically identified coil locations.

B. Manufacturers: Subject to compliance with requirements, provide a product by one of the following:
1. Siemens.

C. Two-Way Valves for Modulating Control: Low Capacity.
1. Typical Applications, unless otherwise indicated:
a. Non-Critical Applications: Air Handler Reheat Coils and Terminal Unit Coils.
b. Critical Applications: Air Handler Heating Coils, Cabinet Heaters, and Unit Heater Coils.
2. Description: Pressure dependent; Reduced port ball with characterized ball or disc.
a. Rating: Class 150; Service; 150 PSIG and 250ºF operation.
b. Body Material: AMETAL, brass, bronze.
c. Connections: Threaded.
d. Body Design: Two/Three piece design to allow seat replacement.
e. Seats: PTFE or TFE with EDPM O-ring backing.
f. Stem: Stainless Steel.
g. Ball: Stainless Steel.
h. Port: Reduced with characterized ball or disc.
i. Operating and Close-Off Pressure: Subject to selection by installer; selection shall be suited to purpose and location with installation.

3. Sizing: Control valve shall be selected to provide the scheduled flow rates at a minimal, yet suitable pressure loss to facilitate control of flow, typically 2 to 3 PSI.
4. Actuator: Compliant with valve manufacturer operating and connection requirements. Actuator input/powered conditions shall be as selected by the Contractor from manufacturers standard components.
    a. Non-critical Applications: Actuator failure in last position.
    b. Critical Applications: Actuators failure in open position.

D. Two-Way Valves for Modulating Control: High Capacity.
1. Typical Applications, unless otherwise indicated:
    a. Non-Critical Applications: Air Handler Cooling and Reheat Coils
    b. Critical Applications:Air Handler Heating Coils
2. Description: Butterfly style, lug design, ASTM A 126 cast-iron or ASTM A 536 ductile-iron body and bonnet, extended neck, stainless-steel stem, field-replaceable EPDM sleeve and stem seals.
    a. Standard: MSS SP-67, Type I.
    b. CWP Rating: Class 300, rated to no less than 200 psig close-off pressure.
    c. Body Material: Coated, ductile iron.
    d. Stem: Two-piece stainless steel, with insulation extension.
3. Stem shall be offset from disc centerline to provide full 360 degree circumferential seating.
    a. Disc: Coated, ductile iron, aluminum-bronze, or stainless steel.
    b. Seal: EPDM.
4. Sizing: Control valve shall be selected to provide the scheduled flow rates at a minimal, yet suitable pressure loss to facilitate control of flow, typically 3 to 5 PSI.
5. Actuator: Compliant with valve manufacturer operating and connection requirements. Actuator input/powered conditions shall be as selected by the Contractor from manufacturers standard components.
    a. Non-critical Applications: Actuator failure in last position.
    b. Critical Applications: Actuators failure in open position.

2.4 VALVE & DAMPER OPERATORS

A. Coordination: Contractor shall coordinate and confirm with equipment manufactures for factory installed devices requiring actuators, for compliance of contractor provided actuators with factory installed devices; such as but not limited to factory installed air handler dampers. Contractor is responsible to field install actuators for field installed components and when necessary for factory installed components for a complete and functional installation.

B. Electronic Damper and Valve Actuators (Operators): Electronic Direct-coupled type designed for minimum 100,000 full-stroke cycles at rated torque. Actuator manufacturer shall provide a minimum two-year unconditional warranty from date of substantial completion.
1. Valves: Size for torque required for valve close-off at maximum pump differential pressure (regardless of water loop system pressures).
    a. Actuators Failure (Fail-Safe) Operation: Spring-return or electronic capacitance mechanism for failure operation, and with external, manual gear release.
        1) Non-Critical Applications: Failure in last position.
        2) Critical Applications: Failure in normally-open or -closed position identified herein, such as the below typical applications, unless otherwise indicated:
            a) Normally-Open: Heating Valves.
            b) Normally-Closed: OA and Relief Dampers.
    b. Valve actuators shall provide a minimum performance of 100:1 or 100 equally linear positions of operation between the fully open and closed positions.
2. Position Feedback: Where designated, provide actuators with analog feedback signal for confirmation of position control.

a. Critical Applications: Identified herein, such as the below typical applications, unless otherwise indicated:
1) Roof Vent Dampers (All Installations).
2) Air Handler Outside Air Dampers (All Installations).

3. Dampers: Size for running torque calculated as follows:
a. Parallel-Blade Damper with Edge Seals: 7 inch-pounds/sq. ft. of damper.
b. Opposed-Blade Damper with Edge Seals: 5 inch-pounds/sq. ft. of damper.
c. For dampers with 2 to 3 Inches wg. of pressure drop, or face velocities of 1000 to 2500 FPM, multiply minimum full-stroke cycles above by 1.5.
d. For dampers with 3 to 4 Inches wg. of pressure drop, or face velocities of 2500 to 3000 FPM, multiply minimum full-stroke cycles above by 2.0.

4. Coupling: V-bolt and V-shaped, toothed cradle.
5. Overload Protection: Electronic overload or digital rotation-sensing circuitry.
6. Power Requirements: Low Voltage; 24VAC, properly sized so as to stroke the damper smoothly and efficiently throughout its range. Actuator response shall be linear in response to sensed load.
a. Operators shall have ample torque to overcome friction, sized for not less than 200 percent of the expected torque.

2.5 ELECTRONIC RELAYS & SWITCHES

A. Electric Relays – Automatic Electronic Engagement/Disengagement Switches
1. Where required, provide relays for energizing or re-energizing equipment operation, in response to Temperature Control System digital output. Relays shall be UL labeled and sized for not less than 140 percent of the connected amperage load. Relays shall be rated for the system voltage and have proper throw and poles.

B. Electronic Switches – Manual Electronic Engagement/Disengagement Switches
1. Install push-button style switches to manually engage devices intended for timed operation.
a. Push-button style wall mounted switch to manually energized or de-energized equipment shall be temporary contact style mechanism with LED status indicator while engaged in timed sequence. Switch shall be UL labeled and selected for use with Temperature Control System for 24V operation.
2. Install toggle style switches to manually engage devices intended for continuous or uninterrupted operation.
a. Toggle style wall or equipment mounted switch to manually energize or de-energize equipment shall be toggle continuous contact style mechanism. Switch shall be UL labeled and selected for use with Temperature Control System for 24V operation.

C. Emergency Shut-Down Operator Station
1. Boilers: Mushroom-head style push-button with pull reset. Station shall be highly visible; UL listed for Category NISD Emergency Stop Devices. Surface mounted NEMA 3R metal enclosure with 40mm mushroom head; Kele ESM-M3S-PP0-BS, or reviewed equivalent.

2.6 ELECTRONIC SENSING DEVICES

A. All field mounted sensors shall be field labeled/tagged with common identification terminology as to their system identification and function.

B. Air Temperature Sensors
1. Thermistor temperature sensors shall be 10,000 ohm at 77 F with Precon Type-2 material. Accuracy shall be +/-0.36 F between the range of 32.0 - 158.0 F.

2. Temperature sensors shall allow Temperature Control System to convert resistive input signal form element into digital signal for Temperature Control System.
3. Air-temperature sensors shall be equipped with watertight and solar protected fittings.
    a. Outside air temperature sensors are intended to be located as indicated on Project Documents. If located on an exterior wall of the building, sensor shall be mounted at north facing wall not susceptible to other heat emitting or absorbent materials.

C. Non-Adjustable Flat Plate Temperature Measurement Device
1. Temperature sensor shall be Precon Type-2 or equal thermistors utilizing a 10K ohm thermistor with stainless steel flat plate cover. Plate shall protect element; Install cover with tamperproof screws.
2. Install wall mounted devices as indicated on Project Drawings, typically 48” AFF.

D. Multifunctional Temperature & Carbon Dioxide Measurement and Control Device
1. Install wall mounted sensors as indicated on the construction documents. Controller shall be low profile, unobtrusive design.
    a. Temperature adjustment and mounting/wiring sub-base. Configure adjustment to allow for +/-2 degree deadband operating range.
    b. Temperature sensor shall accurate within +/- 1 percent of reading.
    c. Carbon dioxide sensor shall be a non-dispersive infrared (NDIR) absorption sensor calibrated for measurements within 0 to 2000 ppm range, +/- 5% of reading. Self-calibrating drift compensation algorithm shall employ Automatic Background Calibration (ABC) logic to eliminate manual routine calibration under normal usage; manufacturer shall provide lifetime calibration guarantee.
    d. Humidity sensor shall be capacitive polymer sensor type; sensor span shall be 10% to 90% (non-condensing) relative humidity and shall be accurate within +/- 5 percent of reading; where indicated.
    e. Install wall mounted devices as indicated on Project Drawings, typically 48” AFF.
    f. Manufacturer/Model: GE Telaire T8100, or equivalent.

E. Wall and Duct Mounted Relative Humidity Sensor
1. Sensor shall be a "Current Type" humidity transducer producing a linear 4-20mA current representing the span of the sensor. Current convertor shall be supplied with the sensor for use the Temperature Control System.
2. Locate outdoor air-humidity sensor in a weathertight enclosure located to provide best representative measurement. Sensor span shall be 10 to 90 percent relative humidity, accurate within +/- 2 percent of span.

F. Thermostat Guards
1. Clear Lexan wall mounted guard with tamperproof screws.

G. Duct Air-Temperature Sensors
1. All duct sensors shall be true averaging type sensors with capillary lengths not less than 20 feet long. The only exceptions will be return air and outdoor air sensors.
2. All duct sensors shall be installed within an enclosure suitable for the application.

H. Electronic Room Temperature Sensors
1. Temperature sensors shall be Precon type-3 or equal thermistors utilizing a 10K ohm thermistor. Sensors shall be manufactured in a durable epoxy housing and shall be enclosed for protection from elements when installed in the sensors operating environment. The sensor cover shall be provided with tamperproof screws. Room temperature sensors shall be provided with temperature adjustment and LCD temperature display. Temperature adjustment shall be programmed to have an allowable user adjustment of 3 degrees (adj.).

I. Air-Temperature Low Limit Switch; Automatic Reset Type

1. Safety low limit switches with flexible sensing elements shall serpentine full length of duct or coil. Instrument to be sensitive to lowest temperature at any 12 inch increment on its 20 foot length. Thermostat shall have a range of 20 degrees F. to 60 degrees F. with a fixed 5 degrees F. differential.
    a. Low limit controller shall be automatically reset at the controller, but sequenced through the temperature control system to only allow a limited number of resets prior to locking out the affected equipment.
2. Manufacturer/Model: Johnson Controls A70GA-1, or equivalent.

J. Current Sensing Status Switches
1. Shall be capable of detecting changes in flow of current to motors in determining accurate and reliable equipment operational status. All fans and pumps shall be equipped with a device to indicate the operation of the attached device.
2. Ampere rating for 0 - 135 amps continuous.
3. Sensor supply voltage shall be included from monitor conductor.
4. Minimum current required is 1 amp.
5. Trip set point shall be adjustable to +/- 1 percent of range.
6. Manufacturer/Model: Veris Industries, Inc. Model No. 705 (Hawkeye).

K. Duct Mounted Carbon Dioxide Sensor
1. Carbon dioxide sensor shall be a non-dispersive infrared (NDIR) absorption sensor calibrated for measurements within 0 to 2000 ppm range, +/- 5% of reading. Self-calibrating drift compensation algorithm shall employ Automatic Background Calibration (ABC) logic to eliminate manual routine calibration under normal usage; manufacturer shall provide lifetime calibration guarantee.

L. Duct Mounted Air Differential Pressure Sensor – For Variable Air Volume Duct System
1. Differential Pressure Transmitters provided by the Temperature Control System contractor to be completely self-contained, variable capacitance type gauge pressure transmitters with a range of +/-10-inches W.C. Wiring terminals and electronics shall be in separate compartments, so the electronics remain sealed during installation. Reverse polarity protection shall be included to keep wiring mishaps from damaging transmitter.
2. Minimum accuracy shall be 0.50% of calibrated span external zero and span adjustments, over pressure to 10 PSIG and no humidity effects. Includes combined effects of linearity, hysteresis and repeatability. Stability shall be +/-0.50% of upper range limit for 12-months. No internal mechanical linkages shall be used in the transmitter. Sensors shall be selected for individual applications such that the normal operation conditions are mid scale and the maximum operating condition is within scale.
3. Manufacturer/Model: Ashcroft CXLdp Series or equivalent.

M. Air Static Differential Automatically Reset Pressure Switch; High or Low Pressure Operation
1. Differential pressure switch shall be installed to avoid unsafe or destructive conditions. Switches shall be located upstream and downstream of each air handler to provide electronic disable output if excessively low or high pressure conditions develop.
    a. Service: Air and non-combustible gases.
    b. Temperature Limits: Ambient from -40 to 180-Deg F.
    c. Operating Range: 0.05 to 12.0-inches W.C.
    d. Switch type: Single-pole double-throw (SPDT).
    e. Mechanical Working Life: Over 106 switching operations.
2. Manufacture/Model: Cleveland Controls AFS Series or equivalent.

N. Building Static Zone Pressure Sensors
1. Remote building static pressure sensors provided by the temperature control system contractor shall be constructed of stainless steel. Sensors shall be mounted within space or within above ceiling plenum area for communication and control of local roof vents relief damper(s).

O. Current Sensing Status Switch

1. Shall be capable of detecting changes in flow of current to motors in determining accurate and reliable equipment status.
2. Ampere rating for 0 - 135 amps continuous.
3. Sensor supply voltage shall be included from monitor conductor.
4. Minimum current required is 1 amp.
5. Trip setpoint shall be adjustable to +/- 1 percent of range.

P. Air Flow Measuring Station
1. Provide Tek-Air, Paragon Controls, Air Monitoring Corporation, or Ebtron air flow measuring system including microprocessor panel and air flow measuring sensor struts as required to measure outside air intake flow as denoted on the Drawings.
2. DDC air flow measuring system shall have velocity range from 200 to 6000 ft./min. with duct measurement accuracy (including repeatability, zero offset, and temperature compensation) of plus or minus 5 percent.
3. Pitot tube arrays and differential pressure arrays are not acceptable.
4. Air flow air measuring system shall be installed as indicated on the Drawings and consist of fan inlet velocity pressure probes, remote transducer in a NEMA-4 enclosure and a microprocessor based monitor to generate a 4-20 m a signal linear to cfm. Contractor shall manifold pressure signals and connect to transducer with pneumatic tubing.
5. Air flow traverse probes shall be suitable for mounting in the inlet bell(s) of the indicated fans. Probes shall utilize multiple total and static pressure measurement points located along the length of the probe surface in accordance with ASHRAE recommendations for traversing. They shall be provided with the appropriate end support brackets for mounting. Where fans are of dual-inlet type, two sets of inlet probes must be provided. Probes shall be of cylindrical cross section and shall be provided with the appropriate fittings to allow for the connection of control tubing to the probe assemblies and shall be constructed of extruded aluminum.
6. Remote transducer shall be mounted in a NEMA-4 enclosure and have an operating range of -40 to 120 degrees F. Transducer shall be heated to maintain constant temperature, have auto zero of differential pressure to eliminate drift and transmit temperature and pressure information via waterproof cable to the monitor.
7. The microprocessor monitor shall transmit a 4-20 m a signal linear with cfm and have density correction to convent cfm measurement to room conditions. Monitor shall have digital display and push-button keys for ease of custom set-up and ability to alarm. Monitor shall be in a NEMA-4 enclosure and have an operating range of 40 to 110 degrees F and requires a 24 VAC power source.
8. Contractor shall verify CFM measurement with equipment supplier and coordinate setpoints.

Q. Remote Differential Pressure Transmitter (DPT)
1. Differential Pressure Transmitters shall be provided by the Contractor to be completely self-contained, variable capacitance type gauge pressure transmitters. Wiring terminals and electronics shall be in separate compartments, so the electronics remain sealed during installation. Reverse polarity protection shall be included to keep wiring mishaps from damaging the transmitter. The 4-20mA DC signal shall be transmitted over a pair of No. 22 gauge or larger wire directly to the control enclosure.
2. Design range shall be as required by system. External zero and span adjustments, over pressure to 2,000 PSI and no humidity effects.
3. Minimum accuracy shall be +/-0.25 percent of calibrated span. Includes combined effects of linearity, hysteresis and repeatability. Stability shall be +/-0.25 percent of upper range limit for 6 months. No internal mechanical linkages shall be used in the transmitter.

R. Flow Transducers (FT)
1. Flow meters with transducers shall be installed where indicated on the Drawings and wired by the Contractor.
2. The flow transducers shall utilize a nonmagnetic sensing mechanism with a forward swept rotating impeller to produce a frequency signal proportional to flow. The flow transducers shall have an achievable accuracy of +/-1 percent of flow rate with flow velocities of 1 to 30 fps.

3. The flow meter shall be constructed of brass with a glass reinforced impeller, tungsten carbide shaft and glass reinforced polyphenylene sulfide housing. The unit shall be both insertable and removable through a gate type valve when the pipe is under pressure.
    1. Provide minimum of 10 straight pipe diameters upstream and 5 diameters downstream for each field installed flow transducer.
    2. Provide an insertion/extraction tool to allow removal and replacement of flow transducer while the system is under pressure.

2.7 CARBON MONOXIDE MONITOR

A. Description: Carbon monoxide detector shall be installed the vicinity of any domestic water heater or heating hot water boiler. The carbon monoxide monitor shall be fully self-contained in a NEMA 1 enclosure suitable for wall mounting. Enclosure shall be factory finished with a hinged access door. Enclosure shall house an integrated metal oxide solid state carbon monoxide sensor that is accurate to 5% of full scale and having an average operating life of 5-7 years. A power indicator light located on the face of the unit shall indicate power status. In addition, a sensor fail, warning and alarm light shall be located on the face of the unit.
    1. Range of output reading shall be from 0-200 ppm of carbon monoxide. Unit shall have an LED readout that is visible from the face of the enclosure that constantly displays the concentration of carbon monoxide level at the location of the unit.
    2. A factory mounted relay shall be furnished for connection to an emergency ventilation system to activate should the system go into alarm.
    3. Unit shall have an audible and visible alarm mounted on the unit. A manual reset button shall be mounted on the face of the enclosure.
    4. Unit shall have an analog 4-20mA output and a RS-485 digital output for interface to BMS System for alarm and concentration readings at the operator's workstation if desired.
    5. Provide a sensor status feature that provides an indication if ether the integral sensor fails to communicate properly. Provide one spare sensor with each unit.
    6. Provide remote sensors as indicated on Project Documents, remote sensor shall be of the same manufacture and fully compatible with the base unit. Remote sensor shall have powered indication/status LED to inform of appropriate operating condition.
    7. Unit shall be powered by 120 volt electrical connection by Division 26 Contractor.
    8. Manufacturer shall provide factory calibration and start-up for each unit.
    9. Unit shall be certified per CSA Certificate of Compliance No. LR51078-5.

B. Unit shall have 2 year parts and labor warranty.

C. Acceptable Manufacturer: MSA Z Gard Combo Gas Monitor with remote DS sensor, or reviewed comparable product.

2.8 VARIABLE FREQUENCY DRIVES

A. Provide direct communication between the Temperature Control System and the variable frequency controller (VFC). VFC fan/pump control data as well as drive power data (minimum voltage, current, and frequency) shall be available for data collection and trending at the Temperature Control System Operator Workstation.

2.9 CONTROL CABINETS/ENCLOSURES

A. Control cabinet/enclosure shall be extruded aluminum, galvanized steel or factory-hardened plastic with key locks and hinged doors. Panels of code steel construction with UL label.

1. Control cabinet/enclosure shall be required to house devices not enclosed as a part of Temperature Control System panels. Pre-wire with internal wiring terminated at labeled terminal strips. Thermometers and switches shall be mounted on the cover of panel. Relays, transformers, and components shall be mounted inside panel. Devices, whether interior or exterior, provide with legend plates of engraved Formica or equivalent.
2. Local type panels need not contain graphic representations or symbols, unless specified below, but must contain approved nameplates, legends, etc., for each device.
3. Where panels contain any wiring, panels shall be UL approved.

2.10 TEMPERATURE CONTROL SYSTEM

A. General: Configure Temperature Control System with a network of interoperable, stand-alone digital controllers, a computer system, graphical user interface software, network devices and other devices as specified herein. System shall provide password authority protected secure access to all features, functions and data contained in overall Temperature Control System.

B. Open, Interoperable, Integrated Architectures
1. Specification intent is to provide peer-to-peer networked, stand-alone, distributed control system with the capability to integrate the ANSI/ASHRAE Standard 135-1995 BACnet MS/TP and/or IP technology communication protocols in one open, interoperable system.
2. Software shall employ object-oriented technology (OOT) for representation of all data and control devices within the system. In addition, adherence to industry standards including ANSI / ASHRAE™ Standard 135-1995, BACnet to assure interoperability between all system components is required. For each BACnet device, the device supplier must provide a PICS document showing the installed device's compliance level. Minimum compliance is Level 3; with the ability to support data read and write functionality. Physical connection of BACnet devices shall be via Ethernet.
3. System must incorporate the ability to access all data using Java enabled browsers without requiring proprietary operator interface and configuration programs. An Open Database Connectivity (ODBC) or Structured Query Language (SQL) compliant server database is required for all system database parameter storage. This data shall reside on a supplier-installed server for all database access. Systems requiring proprietary database and user interface programs shall not be acceptable.
4. Hierarchical topology is required for reasonable system response times and to manage flow and sharing of data without unduly burdening the customer's internal Intranet network. Systems employing a "flat" single tiered architecture shall not be acceptable.
    a. Maximum acceptable response time from any alarm occurrence (at the point of origin) to point of annunciation shall not exceed 10 seconds to user interfaces.

C. Networks
1. Local Area Network (LAN) shall be either a 10 or 100 Megabits/sec Ethernet network supporting BACnet, Java, XML, HTTP, or CORBA IIOP for maximum flexibility for integration of building data with enterprise information systems and providing support for multiple NACs , user workstations and, if specified, a local host computer system.
2. Local area network minimum physical and media access requirements:
    a. Ethernet; IEEE standard 802.3
    b. Cable; 10 base-T, UTP-8 wire, category 6
    c. Minimum throughput; 10 Mbps, with ability to increase to 100 Mbps

D. Network Access
1. Remote Access.
a. For Local Area Network installations, provide access to the LAN from a remote location, via the Internet. The owner shall provide a connection to the Internet to enable this access via high speed cable modem, asynchronous digital subscriber line (ADSL) modem, ISDN line, T1 Line or via the customer's Intranet to a corporate server providing access to an Internet Service Provider (ISP). Owner agrees to pay monthly access charges for connection and ISP.
b. Where no Local Area Network exists, Temperature Control System supplier shall provide the following:
1) 8 Port Ethernet hub (3Com, or equal)
2) Ethernet router (Cisco or equal)
2. Owner shall provide a connection to the Internet to enable this access via high-speed cable modem, asynchronous digital subscriber line (ADSL) modem, ISDN line or T1 Line. Owner agrees to pay monthly access charges for connection and ISP

E. Network Area Controller (NAC)
1. NAC shall provide the interface between the Web Supervisor and field control devices. It shall be capable of executing application control programs to provide:
a. Calendar functions
b. Scheduling
c. Trending
d. Alarm monitoring and routing
e. Time synchronization
f. Integration of BACnet controller data
g. System operating analytics
h. Security
2. NAC must provide the following hardware features as a minimum:
a. TI AM3352: 1000MHz ARM® Cortex™-A8
b. 1GB DDR3 SDRAM
c. Removable micro-SD card with 4GB flash total storage/2GB user storage
d. Wi-Fi (Client or WAP)
1) IEEE802.11a/b/g/n
2) IEEE802.11n HT20 @ 2.4GHz
3) IEEE802.11n HT20/HT40 @ 5GHz
4) Configurable radio (Off, WAP, or Client)
5) WPAPSK/WPA2PSK supported
e. USB type A connector for back-up and restore support.
f. Two isolated RS-485 with selectable bias and termination.
g. Two 10/100MB Ethernet ports.
h. Real-time clock.
i. Secure Reboot.
3. NAC Operating Conditions:
a. Temperature range of 0 to 55°C.
b. Humidity range of 5 to 95% RH, non-condensing.
4. Event Alarm Notification and actions
a. NAC shall provide alarm recognition, storage; routing, management, and analysis to supplement distributed capabilities of equipment or application specific controllers.
b. NAC shall be able to route any alarm condition to any defined user location whether connected to a local network or wide-area network.
c. Alarm generation shall be selectable for annunciation type and acknowledgement requirements including but limited to Alarm, Return to Normal, and Fault.
d. Allow for an unlimited number of alarm classes for the purpose of routing types and or classes of alarms, i.e.: security, HVAC, Fire, etc.
e. Provide timed (schedule) routing of alarms by class, object, group, or node.

f. Provide alarm generation from binary object “runtime” and /or event counts for equipment maintenance. User shall be able to reset runtime or event count values with appropriate password control.

5. Control equipment and network failures shall be treated as alarms and annunciated.
6. Alarms shall be annunciated in all of the following manners as defined by the user:
   a. Locally, by screen message text
   b. Locally, by graphics with flashing alarm object(s)
   c. Remotely, by e-mail, text, and/or phone:
      1) Day of week
      2) Time of day
      3) Alarm Type
      4) Recipient
7. NAC shall record each alarm with the following information, at a minimum:
   a. Time and date
   b. Location (building, floor, zone, office number, etc.)
   c. Equipment (tag, location, etc.)
   d. Acknowledge time, date, and user who issued acknowledgement.
   e. Number of occurrences since last acknowledgement.
8. Alarm log shall be maintained by the NAC.
9. Provide a “query” feature to allow review of specific alarms by user defined parameters.

F. Interoperable BACnet Controller (IBC) or Approved Equivalent

1. Controls shall be microprocessor based Interoperable BACnet Controllers (IBC) in accordance with the ANSI/ASHRAE Standard 135-1995 or approved equivalent. IBCs shall be provided for Unit Ventilators, Fan Coils, Variable Air Volume and Temperature Terminals Units and other applications as shown on the drawings. The application control program shall be resident within the same enclosure as the input/output circuitry, which translates the sensor signals. System supplier must provide PICS document showing installed systems compliance level to the ANSI/ASHRAE Standard 135-1995. Minimum compliance is Level 3.
2. IBCs shall communicate with the Web Supervisor via Ethernet connection at a baud rate of not less than 10 Mbps.
3. IBC Sensor shall connect directly to the IBC and shall not utilize any of the I/O points of the controller. IBC Sensor shall provide a two-wire connection to the controller that is polarity and wire type insensitive. The IBC Sensor shall provide a communications jack for connection to the BACnet communication trunk to which the IBC controller is connected. The IBC Sensor, the connected controller, and all other devices on the BACnet bus shall be accessible by the POT.
4. All IBCs shall be fully application programmable and shall at all times maintain their BACnet Level 3 compliance. Controllers offering application selection only (non-programmable), require a 10% spare point capacity to be provided for all applications. All control sequences within or programmed into the IBC shall be stored in non-volatile memory, which is not dependent upon the presence of a battery, to be retained.
5. System software shall include a Graphic Programming Language (GPL) for all DDC control algorithms resident in standalone control modules. Any system that does not use a drag and drop method of graphical icon programming as described herein is NOT acceptable. GPL is a method used to create a sequence of operations by assembling graphic microblocks that represent each of the commands or functions necessary to complete a control sequence. Microblocks represent common logical control devices used in conventional control systems, such as relays, switches, high signal selectors, etc., in addition to the more complex DDC and energy management strategies such as PID loops and optimum start. Each microblock shall be interactive and contain the programming necessary to execute the function of the device it represents.

6. Graphic programming shall be performed while on screen and using a mouse; each microblock shall be selected from a microblock library and assembled with other microblocks necessary to complete the specified sequence. Microblocks are then interconnected on screen using graphic "wires," each forming a logical connection. Once assembled, each logical grouping of microblocks and their interconnecting wires then forms a graphic function block which may be used to control any piece of equipment with a similar point configuration and sequence of operation.
   a. Graphic Sequence: Clarity of the graphic sequence must be such that operator has the ability to verify that system programming meets the specifications, without having to learn or interpret a manufacturer's unique programming language. The graphic programming must be self-documenting and provide the operator with an understandable and exact representation of each sequence of operation.
   b. Simulation: Full simulation capability shall be provided with the graphic programming. Operator shall be able to fully simulate the constructed control sequence prior to downloading into field control modules. Simulation capabilities shall include step-by-step, accelerated time, and operator defined simulation criteria like outside weather, demand, and communication status. Multiple graphic programs shall be simulated and displayed in split screens at the same time.
   c. GPL Capabilities: Following is a minimum definition of capabilities of the Graphic Programming software:
      1) Function Block (FB): Shall be a collection of points, microblocks and wires which have been connected together for the specific purpose of controlling a piece of HVAC equipment or a single mechanical system.
      2) Logical I/O: Input/Output points shall interface with the control modules in order to read various signals and/or values or to transmit signal or values to controlled devices.
      3) BACnet Points: Shall be points that comply with the BACnet structure as defined in the BIBB's Addendum B1/B2, and the BACnet standard.
      4) Microblocks: Shall be software devices that are represented graphically and may be connected together to perform a specified sequence. A library of microblocks shall be submitted with the control contractors bid.
      5) Wires: Shall be Graphical elements used to form logical connections between microblocks and between logical I/O. Different wires types shall be used depending on whether the signal they conduct is analog or digital.
      6) Labels: Labels shall be similar to wires in that they are used to form logical connections between two points. Labels shall form a connection by reference instead of a visual connection, i.e. two points labeled 'A' on a drawing are logically connected even though there is no wire between them.
      7) Parameter: Parameter shall be a value that may be tied to microblock input.
      8) Properties: Dialog boxes shall appear after a microblock has been inserted which has editable parameters associated with it. Default parameter dialog boxes shall contain various editable and non-editable fields and shall contain 'push buttons' for the purpose of selecting default parameter settings.
      9) Icon: An icon shall be graphic representation of a software program. Each microblock has an icon associated with it that graphically describes function.
      10) Menu-bar Icon: Shall be an icon that is displayed on the menu bar on the GPL screen, which represents its associated graphic microblock.
      11) Live Graphical Programs: The Graphic Programming software must support a 'live' mode, where all input/output data, calculated data, and set points shall be displayed in a 'live' real-time mode.

7. For each piece of HVAC equipment, the entire graphic program shall be displayed through the Web Browser GUI. Operator must have the ability to scroll through the entire 'live' graphic program as necessary. Piecemeal graphic programs that only show one part of HVAC equipment program at any one time are NOT acceptable. For example, when viewing an AHU live graphic program, the operator shall see the entire AHU graphic program, not just the Heating Coil control.

G. Graphical User Interface Software
   1. Operating System:
      a. GUI shall run on Microsoft Windows 10 Pro.
   2. GUI shall employ browser-like functionality for ease of navigation. It shall include a tree view (similar to Windows Explorer) for quick viewing of, and access to, the hierarchical structure of the database. In addition, menu-pull downs, and toolbars shall employ buttons, commands and navigation to permit the operator to perform tasks with a minimum knowledge of the HVAC Control System and basic computing skills. These shall include, but are not limited to, forward/backward buttons, home button, and a context sensitive locator line (similar to a URL line), that displays the location and the selected object identification.
   3. Real-Time Displays. GUI, shall at a minimum, support graphical features and functions:
      a. Color thermal graphic floor plan displays for each floor and zone controlled as well as system schematics for each piece of mechanical equipment, including air handling units, fan coil units, exhaust fans, chilled water systems and hot water boiler systems, shall be provided by the contractor to optimize system performance analysis and speed alarm recognition.
      b. The operator interface shall allow users to access the various system schematics and floor plans via a graphical penetration scheme, menu selection or text-based commands. Dynamic temperature values, flow values and status indication shall be shown in their actual respective locations and shall automatically update to represent current conditions without operator intervention.
      c. Graphic screens shall be developed using any drawing package capable of generating a GIF, BMP, or JPG file format. Use of proprietary graphic file formats shall not be acceptable. In addition to, or in lieu of a graphic background, GUI shall support the use of scanned pictures.
      d. Graphic screens shall have the capability to contain objects for text, real-time values, animation, color spectrum objects, logs, graphs, HTML or XML document links, schedule objects, hyperlinks to other URL's, and links to other graphic screens.
      e. Graphics shall support layering and each graphic object shall be configurable for assignment to a layer. A minimum of six layers shall be supported.
      f. Modifying common application objects, such as schedules, calendars, and set points shall be accomplished in a graphical manner.
         1) Schedule times will be adjusted using a graphical slider, without requiring any keyboard entry from the operator.
         2) Holidays shall be set by using a graphical calendar, without requiring any keyboard entry from the operator.
      g. Commands to start and stop binary objects shall be done by right-clicking the selected object and selecting the appropriate command from the pop-up menu. No entry of text shall be required.
      h. Adjustments to analog objects, such as set points, shall be done by right-clicking the selected object and using a graphical slider to adjust the value. No entry of text shall be required.
   4. System Configuration. At a minimum, GUI shall permit the operator to perform the following tasks, with proper password access:
      a. Create, delete or modify control strategies.
      b. Add/delete objects to the system.
      c. Tune control loops through the adjustment of control loop parameters.

d. Enable or disable control strategies.
e. Generate hard copy records or control strategies on a printer.
f. Select points to be alarmable and define the alarm state.
g. Select points to be trended over a time period and automatically initiate recording.

5. On-Line Help. Provide a context sensitive, on-line help system to assist the operator in operation and editing of the system. On-line help shall be available for all applications and shall provide the relevant data for that particular screen. Additional help information shall be available through the use of hypertext. All system documentation and help files shall be in HTML format.
6. Security. Each operator shall be required to log on to that system with a user name and password in order to view, edit, add, or delete data. System security shall be selectable for each operator. The system administrator shall have the ability to set passwords and security levels for all other operators. Each operator password shall be able to restrict the operators' access for viewing and/or changing each system application, full screen editor, and object. Each operator shall automatically be logged off of the system if no keyboard or mouse activity is detected. All system security data shall be stored in an encrypted format.
7. System Diagnostics. System shall automatically monitor the operation of all workstations, printers, modems, network connections, building management panels, and controllers. Failure of any device shall be annunciated to the operator.
8. Alarm Console:
   a. System will be provided with a dedicated alarm window or console. Window will notify the operator of an alarm condition, and allow the operator to view details of the alarm and acknowledge the alarm. Use of the Alarm Console can be enabled or disabled by the system administrator.
   b. When the Alarm Console is enabled, a separate alarm notification window will supersede all other windows on the desktop and shall not be capable of being minimized or closed by the operator. This window will notify the operator of new alarms and un-acknowledged alarms. Alarm notification windows or banners that can be minimized or closed by the operator shall not be acceptable.

H. Server Functions and Hardware
1. A central integrated server to NAC shall be provided. Server shall support all Network Area Controllers (NAC) connected to the customer's network whether local or remote.
2. Local connections shall be via an Ethernet LAN.
3. Provide access to all Network Area Controllers via a single connection to the server. In this configuration, each Network Area Controller can be accessed from Graphical User Interface (GUI) or from standard Web browser (WBI) by connecting to server.
4. Server shall provide the following functions, at a minimum:
   a. Global Data Access: Server shall provide access to distributed data.
   b. Distributed Control: Server shall provide ability to execute global control strategies based on control and data objects in any NAC in the network, local or remote.
   c. Server shall include a master clock service for its subsystems and provide time synchronization for all Network Area Controllers (NAC).
   d. Server shall accept time synchronization messages from trusted precision Atomic Clock Internet sites and update its master clock based on this data.
   e. Server shall provide scheduling for all Network Area Controllers and their underlying field control devices.
   f. Server shall provide demand limiting that operates across all Network Area Controllers. Server must be capable of multiple demand programs for sites with multiple meters and or multiple sources of energy. Each demand program shall be capable of supporting separate demand shed lists for effective demand control.
   g. Server shall implement the BACnet Command Prioritization scheme (16 levels) for safe and effective contention resolution of all commands issued to Network Area Controllers.

h. All Network Area Controllers shall have the ability to archive its log data, alarm data and database to the server, automatically.

i. Server either external or integral to the NAC shall provide central alarm management for all Network Area Controllers supported by the server. Alarm management shall include:
   1) Routing of alarms to screen display, e-mail, pages, text messaging, and through operator controlled printing.
   2) View and acknowledge of alarms
   3) Query alarm logs based on user-defined parameters

j. Server shall provide central management of log data for all Network Area Controllers supported by the server. Log data shall include process logs, runtime and event counter logs, audit logs and error logs. Log data management shall include:
   1) Viewing and printing log data
   2) Exporting log data to other software applications
   3) Query log data based on user-defined parameters

k. Server Hardware Requirements: Server hardware platform shall be installed in an owner approved location and have the following minimum operating requirements:
   1) Intel Quad-Core 64 bit Processor.
   2) 1 TB Ultra ATA/72K RPM Hard Drive.
   3) One Ethernet Port: 10/100 Mb; 8-pin RJ-45 Connector.
   4) Two RS-232-C serial ports; 9-pin sub-D connectors.
   5) Four USB serial ports; standard USB connectors.
   6) 64 GB, DDR2 SDRAM FBD Memory.

I. System Programming

1. Graphical User Interface software (GUI) shall provide the ability to perform system programming and graphic display engineering as part of a complete software package. Access to the programming functions and features of GUI shall be through password access as assigned by the system administrator.

2. Library of control, application, and graphic objects shall be provided to enable the creation of all applications and user interface screens. Applications are to be created by selecting the desired control objects from the library, dragging or pasting them on the screen, and linking them together using a built in graphical connection tool. Completed applications may be stored in the library for future use. Graphical User Interface screens shall be created in the same fashion. Data for the user displays is obtained by graphically linking the user display objects to the application objects to provide “real-time” data updates. Any real-time data value or object property may be connected to display its current value on a user display. Systems requiring separate software tools or processes to create applications and user interface display shall not be acceptable.

3. Programming Methods
   a. Provide the capability to copy objects from the supplied libraries, or from a user-defined library to the user’s application. Objects shall be linked by a graphical linking scheme by dragging a link from one object to another. Object links will support one-to-one, many-to-one, or one-to-many relationships. Linked objects shall maintain their connections to other objects regardless of where they are positioned on the page and shall show link identification for links to objects on other pages for identification. Links will vary in color depending on the type of link; i.e., internal, external, hardware, etc.
   b. Configuration of each object will be done through the object’s property sheet using fill-in the blank fields, list boxes, and selection buttons. Use of custom programming, scripting language, or a manufacturer-specific procedural language for configuration is not acceptable.

c. Software shall provide the ability to view the logic in a monitor mode. When on-line, the monitor mode shall provide the ability to view the logic in real time for easy diagnosis of the logic execution. When off-line (debug), the monitor mode shall allow the user to set values to inputs and monitor the logic for diagnosing execution before it is applied to the system.
d. All programming shall be done in real-time. Systems requiring the uploading, editing, and downloading of database objects shall not be allowed.
e. System shall support object duplication within a customer's database. An application, once configured, can be copied and pasted for easy re-use and duplication. All links, other than to the hardware, shall be maintained during duplication.

J. Trended/Logged Information
1. Information logged by the Temperature Control System shall be automatically archived to the Web Supervisor each calendar month and able to be recalled through the Temperature Control System and shall not be automatically overwritten without the consent of operator.
a. Information shall be archived in a dedicated directory indicating its contents, with the archive files saved with a dated designation, such as "TCS Trend (YEAR)(MONTH)(DATE).*", where the "(YEAR)" designates the numerical 4 digit year, the "(MONTH)" indicates the numerical 2 digit month and "(DATE)" indicated the numerical 2 digit day of the month.
b. At option of operator, individual archived files must be able extracted from the computer as needed to view remotely, using the system interface on any connected computer. Extraction from the local computer shall be done via portable memory device, such as a flash drive.

K. Object Libraries
1. A standard library of objects shall be included for development and setup of application logic, user interface displays, system services, and communication networks.
2. Objects in this library shall be capable of being copied and pasted into the user's database and shall be organized according to their function. In addition, the user shall have the capability to group objects created in their application and store the new instances of these objects in a user-defined library.
3. In addition to the standard libraries specified here, the supplier of the system shall maintain an on-line accessible (over the Internet) library, available to all registered users to provide new or updated objects and applications as they are developed.
4. All control objects shall conform to the control objects specified in the BACnet specification or approved equivalent.
5. Library shall include applications or objects for the following functions, at a minimum:
a. Scheduling Object. The schedule must conform to the schedule object as defined in the BACnet specification, providing 7-day plus holiday & temporary scheduling features and a minimum of 10 on/off events per day. Data entry to be by graphical sliders to speed creation and selection of on-off events.
b. Calendar Object. . The calendar must conform to the calendar object as defined in the BACnet specification, providing 12-month calendar features to allow for holiday or special event data entry. Data entry to be by graphical "point-and-click" selection. This object must be "linkable" to any or all scheduling objects for effective event control.
c. Duty Cycling Object. Provide a universal duty cycle object to allow repetitive on/off time control of equipment as an energy conserving measure. Any number of these objects may be created to control equipment at varying intervals
d. Temperature Override Object. Provide a temperature override object that is capable of overriding equipment turned off by other energy saving programs (scheduling, duty cycling etc.) to maintain occupant comfort or for equipment freeze protection.

e. Start-Stop Time Optimization Object. Provide a start-stop time optimization object to provide the capability of starting equipment just early enough to bring space conditions to desired conditions by the scheduled occupancy time. Also, allow equipment to be stopped before the scheduled un-occupancy time just far enough ahead to take advantage of the building's "flywheel" effect for energy savings. Provide automatic tuning of all start/stop time object properties based on the previous day's performance.

f. Demand Limiting Object. Provide a comprehensive demand-limiting object that is capable of controlling demand for any selected energy utility (electric, oil, and gas). The object shall provide the capability of monitoring a demand value and predicting (by use of a sliding window prediction algorithm) the demand at the end of the user defined interval period (1-60 minutes). This object shall also accommodate a utility meter time sync pulse for fixed interval demand control. Upon a prediction that will exceed the user defined demand limit (supply a minimum of 6 per day), the demand limiting object shall issue shed commands to either turn off user specified loads or modify equipment set points to effect the desired energy reduction. If the list of sheddable equipment is not enough to reduce the demand to below the set point, a message shall be displayed on the users screen (as an alarm) instructing the user to take manual actions to maintain the desired demand. The shed lists are specified by the user and shall be selectable to be shed in either a fixed or rotating order to control which equipment is shed the most often. Upon suitable reductions in demand, the demand-limiting object shall restore the equipment that was shed in the reverse order in which it was shed. Each sheddable object shall have a minimum and maximum shed time property to effect both equipment protection and occupant comfort.

6. Library shall include control objects for the following functions. All control objects shall conform to the objects as specified in the BACnet specification or approved equivalent.

a. Analog Input Object - Minimum requirement is to comply with the BACnet standard for data sharing. Allow high, low and failure limits to be assigned for alarming. Also, provide a time delay filter property to prevent nuisance alarms caused by temporary excursions above or below the user defined alarm limits.

b. Analog Output Object - Minimum requirement is to comply with the BACnet standard for data sharing.

c. Binary Input Object - Minimum requirement is to comply with the BACnet standard for data sharing. The user must be able to specify either input condition for alarming. This object must also include the capability to record equipment run-time by counting the amount of time the hardware input is in an "on" condition. The user must be able to specify either input condition as the "on" condition.

d. Binary Output Object - Minimum requirement is to comply with the BACnet standard for data sharing. Properties to enable minimum on and off times for equipment protection as well as start delay must be provided. The BACnet Command Prioritization priority scheme shall be incorporated to allow multiple control applications to execute commands on this object with the highest priority command being invoked. Provide sixteen levels of priority as a minimum. Systems not employing the BACnet method of contention resolution shall not be acceptable.

e. PID Control Loop Object - Minimum requirement is to comply with the BACnet standard for data sharing. Each individual property must be adjustable as well as to be disabled to allow proportional control only, or proportional with integral control, as well as proportional, integral and derivative control.

f. Comparison Object - Allow a minimum of two analog objects to be compared to select either the highest, lowest, or equality between the two linked inputs. Also, allow limits to be applied to the output value for alarm generation.

g. Math Object - Allow a minimum of four analog objects to be tested for minimum or maximum, or sum, difference, or average of linked objects. Also, allow limits to be applied to output value for alarm generation.

h. Custom Programming Objects - Provide a blank object template for the creation of new custom objects to meet specific user application requirements. This object must provide a simple Temperature Control System IC-like programming language that is used to define object behavior. Provide a library of functions including math and logic functions, string manipulation, and e-mail as a minimum. Also, provide a comprehensive on-line debug tool to allow complete testing of the new object. Allow new objects to be stored in the library for re-use.

i. Interlock Object - Provide an interlock object that provides a means of coordination of objects within a piece of equipment such as an Air-handler or other similar types of equipment. An example is to link the return fan to the supply fan such that when the supply fan is started, the return fan object is also started automatically without the user having to issue separate commands or to link each object to a schedule object. In addition, the control loops, damper objects, and alarm monitoring (such as return air, supply air, and mixed air temperature objects) will be inhibited from alarming during a user-defined period after startup to allow for stabilization. When the air-handler is stopped, the interlocked return fan is also stopped, the outside air damper is closed, and other related objects within the air-handler unit are inhibited from alarming thereby eliminating nuisance alarms during the off period.

j. Temperature Override Object - Provide an object whose purpose is to provide the capability of overriding a binary output to an “On” state in the event a user specified high or low limit value is exceeded. This object is to be linked to the desired binary output object as well as to an analog object for temperature monitoring, to cause the override to be enabled. This object will execute a Start command at the Temperature Override level of start/stop command priority unless changed by the user.

k. Composite Object - Provide a container object that allows a collection of objects representing an application to be encapsulated to protect the application from tampering, or to more easily represent large applications. This object must have the ability to allow the user to select the appropriate parameters of the “contained” application that are represented on the graphical shell of this container.

2.11 GUI DISPLAY FRAMES

A. Dynamic Graphic portion of this GUI shall allow the operator to access any system information via a “system penetration” method. “System penetration” shall allow the operator to penetrate into the facility until the detailed color graphic display of a specific area of the facility is represented. All system travel shall be 100% accessible via the mouse, no keyboard commands shall be necessary to edit dynamic data.

B. Ability to import background images for the display frames shall include as a minimum, photos, digital images, bitmaps and standard image formats. Systems that utilize a proprietary background image format are not acceptable.

C. As a minimum, a graphic display shall be provided for overall site, for each subsystem within the site and for all individual locations associated with each subsystem. All graphics shall be logically linked to allow the operator to traverse through the overall system and at any time return immediately to the associated subsystem, or overall site plan, via a graphic element.

D. System must be set up to have at least 3 access levels: guest, user and administrator. Guest privileges shall be limited to view only. Users shall be able to make set point and schedule changes. Administrators shall have all privileges as users in addition to being able to assign passwords.

E. Graphic displays shall have an HTML tree on the left side of the screen and the currently viewed graphic on the right side. Tree views shall be different based on access level and the tree must only show screens that are available based on access privileges.

F. Each AHU, heating water system and cooling system shall have a minimum of 5 graphic screens available from the tree view. One screen shall display the airflow pattern with all dampers, coils and fans shown in their correct schematic location and dynamic data for all input values shown. This main graphic screen shall show the control devices in mechanical flow diagram format with directional arrows to indicate normal flow arrangement. These screens shall be available to anyone with access to the system, and therefore shall be view only. Another screen shall display text information with the following primary categories: Unit status, temperatures, heating, cooling, economizer, static pressure, supply fan, exhaust fan including set screen shall also be furnished for each control loop, so that people with the appropriate access can change loop tuning parameters from PCs without needing individual programming tools. Override screens shall be furnished for each controller to permit overriding control points without the need for vendor specific software. An alarm screen shall also be furnished each AHU. The Heating systems and Cooling systems shall have similar screens as the AHUs. Each VAV shall have a graphics screen and a text screen. Systems that won't permit creating these customized screens as described herein will not be acceptable. Systems that use controllers that won't permit overrides of inputs and outputs from a browser based graphic screen will not be acceptable.

G. All shapes shall be 3-D with a common perspective. All dampers shall have a minimum of 4 animation levels to show partially open, half open, mostly open, fully open, and closed position of dampers. All analog inputs shall show the actual value and engineering units on the graphic screen. Binary inputs shall be linked to flashing animated displays. Safety alarms will flash when in alarm. Filter status shall be indicated when value indicates that they are dirty. To prevent clutter on the graphic displays, symbols will only be shown for equipment that is controlled or monitored by the DDC system. Also, normal status for safeties will not be indicated, and normal status for safeties will be indicated by an image of a clean filter. Pumps and fans shall rotate when flow is proven by a monitoring device. Coils shall change color when valves are open to permit water flow through the coils.

H. Graphics shall use common color schemes to make the overall system easy to understand. All overall backgrounds shall be white. All text shall be black. Any value that is in alarm shall have a red background. Any value that is overridden shall have a blue background. All like sensors shall be the same color. For example, all temperature devices shall be yellow, all pressure devices shall be purple, all humidity devices shall be teal, all fire alarm devices shall be red, and all CO2 devices shall be green.

I. Current set points and occupancy status shall be shown at the bottom of each graphic screen.

J. Floor plan drawings shall be provided and permit access to each zone's individual floor plan sections. On the individual floor plan sections, room numbers and room temperatures shall be displayed. Values that are out of the acceptable range shall appear in a different background color and / or flash. Each VAV shall have its own graphic that contains the points from within its controller including the box flow set point, room temperature set point, maximum cooling flow set point, minimum cooling flow set point, and minimum heating flow set point, plus the discharge air temperature from the AHU supplying the unit. The VAV text screen shall have the same information as the graphic screen plus high and low flow calibration values, damper rotation adjustment (CW or CCW), and air balance set-up features. GUI shall permit operator the ability to enable, set or disable high and low occupied and unoccupied limits for each room temperature reading.

K. Text Screens shall be available for all levels of access. Set point and output values are changeable from the text screen for users with appropriate access privileges and

administrators, but not guests. When a value can be overridden or edited, a red box shall appear around it when the cursor is position on it. A single click of the mouse shall bring up pop up menu that provide options to make a permanent override, change set point, or release a previous override of an output point. Analog inputs shall have pop up menus that allow setting high and low alarm limits and the ability to enable and disable alarm limits as appropriate for the sensing device. Pop up menus must be customized to include a description of the point that is being modified. Generic override menus are not permitted because they would not describe to an operator what is about to be modified. The Control Contractor shall set up all initial alarms as indicated in the point matrix.

L. Text screens shall include schedule information including current state and date and time of next scheduled event. Positioning the mouse over the current state shall permit single click access to the schedule. The schedule screen shall allow the operator to edit a yearly, weekly, daily, holiday or special event schedule for the system being viewed. Temperature values and set points shall be displayed below the schedule information, and shall have a minimum of 1 decimal place. Heating, cooling and damper out puts shall be displayed next. The OA temperature for economizer switchover shall be displayed and adjustable from the text screen. Air flow readings shall be shown with set point and actual readings. Fan information shall be shown next, followed by static pressure readings and set points, which shall have a minimum of 2 decimal places. Miscellaneous set points including night setback cooling and heating, average zone temperature, return air warm-up and cool-down, dehumidification, and unoccupied mixed air temperature set points shall all be shown and adjustable. All safeties shall be shown, followed by coil pump control information.

M. Each system shall have its own specific alarm screen available to all operators but only editable by operators with user and administration access privileges. From the alarm screen, users and administrators shall be able to enable and disable alarms. Points that are in alarm shall have an alarm symbol highlighted in red. Points that are not in alarm shall be shown in gray. Alarms that are disabled shall have a way to indicate this on the alarm screen graphic.

N. Loop tuning screens shall be available through the web browser interface to save the owner the cost and time associated with using vendor specific software for tuning loops. Access to these screens shall not be provided to guests. Air handling units shall have dedicated screens for discharge air temperature, static pressure, and outside air control loops. Loop tuning screen for discharge air temperature shall include the discharge air temperature, discharge air temperature set point, cooling loop throttling range, I-gain and ramp time, heating loop throttling range, I-gain and ramp time, economizer loop throttling range, I-gain and ramp time, unoccupied heating loop throttling range, I-gain and ramp time, cooling valve output, heating valve output, and damper control output. Screens shall also have graphs that show 5 minutes of live data for the discharge air temperature, set point, cooling valve, heating valve and mixed air dampers. Each loop tuning screen shall include the appropriate throttling range, I-gain and ramp time.

O. Each non-unitary controller shall have an override screen. These screens shall be available on-site for use during point-to-point check-out and commissioning. The override screen shall show the inputs and outputs for each controller with the points in their wired location. Unused points shall be shown as spares. Points that are in alarm shall have a red background, and points that are overridden shall have a blue background just as on other screens. These screens shall show the actual values that come back from the controller, not the values that may have been typed in for override at GUI if the controller software is not accepting the override value. The override screen shall also permit timed overrides.

P. Each central plant variable air volume (VAV) air-handler (AHU) shall also have a overview screen listing every associated terminal unit’s coils data in a text format that includes occupancy mode, room temperature, room set point, box flow, flow set point, temperature leaving Fan coil, % cooling and % heating. Also, each VAV AHU shall have an air balance

screen that will permit balancing the system through a computer connected to the Ethernet or directly to the appropriate BC without vendor specific software. Air balancing screens shall permit at least 8 manual override commands: normal, position (%), flow value, flow percent, open, close, min flow, and max flow.

Q. Although only one outside air temperature sensor is needed per building, GUI shall use independent outside air temperature points, so that during check-out and commissioning, the outside air temperature for a system can be changed without changing the outside air temperature for the whole building. GUI shall also have a global outside air temperature point that can be overridden from the screen for the controller where the point is physically connected. Overriding this outside air temperature value will change it for all systems, except when outside air temperature has been overridden for an individual system.

R. System shall allow for the easy development and editing of dynamic graphics. Wizards shall be utilized to assist the operator with their manipulation of the graphic system. The operator shall be able to, through a single mouse function, select between the dynamic display mode and the graphic edit mode for the currently viewed graphic frame, assuming appropriate access level is provided to the operator. Systems requiring multiple mouse or operator keyboard commands to enter the graphic edit mode are not desirable and require thorough definition of steps involved to accomplish function.

S. Animation of system data shall be provided via graphic elements on the display frames. Standard graphic element library shall be provided to assist the operator with their implementation. The ability to define and add new animated graphic elements shall be provided. As a minimum, the ability to move, size, draw, arrange, align, layer, space, rotate, invert, duplicate, cut, copy, paste, erase any animated element shall be provided. System parameters and set points shall be assignable and modifiable by the animated graphic elements, relieving the need for keyboard commands for system manipulation.

T. Ability to simultaneously display a dynamic X/Y chart of selected points, shall be provided. The chart shall be an element of the graphic display and shall automatically update with the display data. The chart shall allow for dynamic manipulation to modify the range, rate, and timeframe of view, in both a real-time as well as historical configuration. A minimum of 4 values shall be included on any chart display element. There shall not be a limit to the quantity of chart elements displayed on a graphic frame. Trace colors and X values shall be User configurable. Systems not providing this capability are required to provide an equivalent charting package with GUI offering.

U. Full on-line system documentation shall be provided. It shall not be necessary to maintain printed copies of user or programming manuals. Context sensitive help files shall be provided for all applications within the FMCS area of GUI. The ability to update on-line documentation must be provided via electronic updates, definition of update procedure shall be provided. Electronic O&M manual information shall be installed in the web server(s), so that information can be retrieved by logging on to the building's FMCS from any web browser. PDF files for control drawings, sequences of operations and product cut sheets shall be loaded on the web server(s), so they can also be remotely accessed.

V. By pointing and clicking on any individual graphic element, the following shall be available for display or modification, but not be limited to the current value or state may be edited. A self-prompting pop-up window shall be displayed providing the ability to modify the selected point value. Instructions assisting the operator in their use of the pop-up window shall be provided.

W. Graphically displayed global scheduling and editing functions shall be provided. The ability to link these functions to the associated equipment or zone frames shall be a standard feature. A calendar shall be provided for display and modification of the SDC time clock functions. The User shall be able to view a daily, weekly, monthly, annual, special or holiday schedule from a

defined display frame. A list of served areas shall be displayed on the same screen, this list shall be displayed at all times, pull down menus or other means of accessing these areas shall not be acceptable. The system shall have a master override screen that will allow an operator to change the schedule for every piece of equipment in every building by changing the master schedule. This is often referred to as a “Snow Day” command and does not require the operator to log onto each building’s Subordinate Server and Building Controllers.

X. All analog values shall be trended every 15 minutes. The trend samples shall be saved in the BC for at least 36 hours. Access to trended data shall be available by the single click of a mouse on the analog value. Systems that open other windows and require a selection of the desired data are not acceptable.

2.12 GUI ALARMING

A. GUI shall provide, as standard, alarm annunciation of system data. On every display frame, the ability to view, acknowledge, delete and manipulate real-time and historical alarms shall be provided. The ability to provide a unique and custom alarm display for every display frame shall be provided. The ability to continuously or upon request, view the alarm display, shall be provided.

B. Alarm conditions shall be capable of invoking, as a minimum; a display frame, an email message, a text message sent to a pager or cellular phone.

C. Alarm logging shall be provided in a user definable configuration. All alarms shall be displayed and/or routed as follows, as a minimum; GUI display frame, local printer, server printer, client printer, logged to file, and archived in standard format for information management. Alarm groupings shall be hierarchical in nature allowing up to 8 alarm groups and 16 sub-groups. GUI shall not possess any limits on the quantity of alarms that can be logged, including historical data archiving. Systems possessing limits must define the restrictions and may not be acceptable.

D. Alarm shall provide up to 999 alarm priorities with up to 5 alarm color changes, per priority, according to alarm status.

2.13 TEMPERATURE CONTROL CABLING

A. Cabling in air plenums shall be open wired UL listed plenum cable or shall be installed in conduit.

B. Conduit shall be 1/2-inch minimum size and shall be furnished and installed by the temperature control contractor. Run all control wiring exposed in mechanical rooms and similar spaces in conduit, in a neat, workmanlike manner. Provide bushings on any open end of conduit. Conduit construction and sizing shall be in accordance with Project Manual Section 260533, Raceway and Boxes for Electrical Systems.

C. Concealed wiring and wiring in non-plenum ceiling cavities, which is operating under 100 volts, may be open wired if in compliance with Article 725, NFPA-70 (NEC). Open wiring shall be supported as denoted below.

D. Terminations shall be performed by the Temperature Control Contractor.

E. Wire and conduit not indicated on the Drawings or in the Specifications, but required by the controls supplier, shall be paid for by the Temperature Control Contractor at no additional cost to the Owner.

F. Cable Supports

1. Provide cable supports that meet UL, NEC and TIA/EIA requirements for structured cabling systems.
2. Cable support system shall provide support for various types of low voltage cables, fiber optic cables, innerduct, and temperature control cabling.
3. Support system shall attach to the building structural elements or be wall mounted.
4. Supports shall be made of fire retardant and low smoke emission products, which meet UL 2034 requirements for air plenum spaces.
5. Support products shall have a minimum of a 1 inch wide platform for the cable to rest. Bridle rings or bridle rings with 1” inserts are not acceptable.
6. Individual supports shall be installed at intervals not greater than 60 inches.
7. Cable supports shall be installed a minimum of 6 inches above lay-in ceiling system. Cable sags shall not allow the cable to touch ceiling grid or tiles.
8. Minimum clearances from sources of EMI and RFI must be as specified in TIA/EIA-568C, TIA/EIA-569 and the latest version of the BICSI TDMM.
9. Approved Manufacturers:
    a. Caddy by Erico
    b. Siemon
    c. CPI
    d. Panduit
    e. Garvin Industries
    f. B-line

G. Cable Ties
1. Provide plenum rated cable ties for cables in/or above ceiling.
2. Cable ties shall be of appropriate length to loosely bundle and secure the low-voltage cables. Cable ties are not to be pulled so tight that they damage or distort the cables in the bundles. Trim cable tie loose ends.
3. Cable ties shall meet UL 94V-O.
4. Approved Manufacturers:
    a. Panduit
    b. Hubbell
    c. Leviton

H. Cable Hook and Loop Fasteners
1. Provide cable hook and loop fasteners to secure cable bundle at equipment cabinets, panels, and controllers.
2. Hook and loop fasteners may be used above ceiling if they are plenum rated.
3. UL listed.
4. Approved Manufacturers:
    a. Panduit
    b. Hubbell
    c. Leviton

I. Innerduct (Indoor)
1. Provide 1.0 inch I.D. plenum rated corrugated innerduct above ceiling for all non-armored fiber optic cable.
2. Innerduct shall be UL listed and plenum rated.
3. Approved Manufacturers:
    a. Endot-Endocor
    b. Carlon
    c. Pyramid Industries
    d. Eastern

J. Innerduct (Outdoor)
1. Provide 1.0 inch I.D. non-plenum polyethylene-type, ribbed inside tube, innerduct in the conduit as shown on the Drawings.

2. Innerduct shall be UL listed.
3. Provide a nylon pull string in all empty innerduct runs.
4. Approved Manufacturers:
    a. Enduct Ribbed (for outside applications)
    b. Carlon
    c. Pyramid Industries
    d. Eastern

K. Temperature Control Contractor shall refer to all Divisions 23 and 26 Project Manual sections for unique requirements for each piece of equipment.

PART 3 - PART 3 EXECUTION

3.1 INSTALLATION

A. Refer to Project Drawings, Section 230900 and 230993 for listing of expected control points. Contractor is responsible to review Project Documents to realize/confirm all necessary points for compliance with Project Documents.

B. Automatic control and/or monitoring of all HVAC equipment and system described by Project Documents shall be with this direct digital control (DDC) system, unless otherwise noted.

C. Temperature Control System control panels for network control and system interface shall be installed as necessary by the Temperature Controls Contractor. Power wiring for control panels and devices shall be the responsibility of the Temperature Control Contractor, who is responsible to coordinated with the Division 26 Contractor to provide all the necessary services to power the Temperature Control System control panels, components, and devices. Power shall be obtained from the various Division 26 panels located throughout the building, spares circuiting in these panels shall be utilized for the Temperature Control System installation.

D. Temperature Control System Primary/Central Server shall be rack-mounted server within the building's Main Distribution Frame, MDF, electronic data service room. This server shall provide system access, data acquisition and collective data storage.
    1. Mechanical room temperature control panels shall provide local equipment control functionality, data storage, etc. These control panels shall communicate to the central server via BACnet MS/TP and IP communication standard.
        a. Local BACnet IP Controllers:
            1) Temperature Control Systems Panels.
            2) Air Handler Panels.
            3) Boilers.
            4) Dedicated outside air unit
            5) Pool dehumidification unit
        b. Local BACnet MS/TP Controllers:
            1) Fan Coil Unit
            2) Energy recover unit.
            3) Packaged Air Handlers.
            4) Terminal Units.
            5) Heaters.
            6) Variable Frequency Controllers.
            7) Fans.
            8) Pumps.
            9) Control Dampers.

E. Operational Verification: All motorized components of the building heating, cooling and ventilation systems shall be monitored with a field installed current sensor to verify and monitor operation of the motor.

F. Local Comfort Control Sensors: Refer to below direction and/or project drawings for precise locations of various local comfort control sensors, however if a location is not shown, contractor is responsible to coordination precise mounting location with owner's representative. Wall mounted devices for existing building being renovated are expected to be with surface mounted sub-base and raceway, unless otherwise noted; otherwise all devices shall be installed with flush mounted wall boxes and having concealed in-wall wiring. Devices shall be as follows:

1. Combination/Multipurpose Thermostat: Wall mounted combination temperature, carbon dioxide, and humidity sensor as designated below, or multiple sensors, shall be installed at a mounting height of 48-inches near the room entry doorway from an adjacent interior corridor, or as otherwise shown on the project drawings. Final location shall be determined and coordinated by the Temperature Control Contractor to best suit each specific area of installation. If contractor chooses to use multiple sensors, the contractor is responsible for the additional cost and the coordination of such devices. Devices shall be installed for each of the following types of equipment, for each independent thermal zone served unless otherwise indicated.
   a. Single-zone Air Handlers; Temperature/CO2/Humidity
   b. Variable Temperature Air Handlers; Temperature/CO2/Humidity
   c. VAV Terminal Units – Single Duct & Fan-Powered; Temperature/CO2.
   d. Fan Coil – Thermal Zones at LECC; Temperature/CO2.
2. Flat Plate Thermistor: Wall mounted flat plate temperature sensor shall be installed at a mounting height of 48-inches near room entry doorway from an adjacent interior corridor, or as otherwise shown on project drawings. Final location shall be determined and coordinated by Temperature Control Contractor to best suit each specific area of installation. Devices shall be installed for each of the following types of equipment, for each independent thermal zone served unless otherwise indicated.
   a. Heaters: Cabinet, Unit, Convector, Finned-Tube, and Radiant Panels.
   b. Fans Identified for Temperature Limiting Operation.
   c. Self-Contained & Independent Systems.
3. On/Off Electronic Switch:
   a. Fans Identified for Manual Operation.

3.2 SEQUENCE OF OPERATION

A. Refer to Specification Sections 230993 for equipment operation sequences and listing of control points.

3.3 OCCUPIED/UNOCCUPIED SYSTEMS & ZONES

A. Each air handler shall be considered a single system and each temperature sensing and/or time dependent device considered a single thermal zone. Each system may typically be comprised of multiple zones. Equipment serving more than one system and/or zone, such as restroom exhaust fans and heaters, shall be automatically engaged when either associated system is engaged to operate for occupied conditions. Unitary equipment not dedicated to a specific system, such building entry heaters, shall be independently scheduled, but also engaged into occupied operation when adjacent systems or zones engaged into scheduled occupied operation. Equipment associations shall be configurable through the Temperature Control System. System engagement shall be controlled through the Temperature Control System. Zone engagement shall be controlled through the Temperature Control System or the local room thermostat or sensor.

B. Air handlers shall be scheduled to provide system ventilation during occupied periods only, strictly through the building automation through secure system authority. Individual zone override control to reset zone set point temperatures shall be available through the Temperature Control System or from zone thermostats and sensors shall not allow for system outside air ventilation or sequence the central air-handler into occupied mode.

C. Manual Overrides: Manual push buttons override switches shall be an integral part of occupied room, wall mounted temperature sensors with adjustable temperature set-point control. Pressing of override button will place the zone in which the sensor is located into a preprogrammed non-occupied condition allowing for more comfortable room set point temperature conditions.

3.4 NETWORK MANAGEMENT FUNCTIONAL REQUIREMENTS

A. Contractor shall thoroughly and completely configure Temperature Control System devices, software, supplemental software, application programming, network communications, control system server, operator workstations, remote operator workstations, portable operator's terminal, and network communications to permit the functional requirements of the IAS herein specified. Setup shall include as a minimum the following network management procedures:
   1. Automatic backup of the DDC System database to appropriate media.
   2. Program, load and debug all software installations, including integration of third party applications (e.g. analytics and energy management).
   3. Network user auditing routine.

3.5 GUARANTEE

A. Contractor shall include three (3) year control system operational warranty and three (3) year guarantee of workmanship, material, and devices from the date of Substantial Completion as part of base bid cost. Any material proving defective shall be repaired or replaced during that period. This shall not, apply to material that has been damaged due to willful vandalism or negligence.

B. Software support includes upgrading of software during warranty period such that system is updated, with latest available version loaded at the end of five (5) year warranty period.

C. Support shall also include Owner training for system operation system, as outlined in this Specification. Explicitly included is the training necessary to analyze building operation to minimizing energy costs.

3.6 OWNERSHIP OF PROPRIETARY MATERIAL

A. Owner shall sign a copy of the manufacturer's standard software and firmware licensing agreement as a condition of this contract. Such license shall grant use of all programs and application software to owner as defined by the manufacturer's license agreement, but shall protect manufacturer's rights to disclosure of trade secrets contained within such software. All project developed software and documentation shall become the property of the owner. These include, but are not limited to project graphic images, record drawings, project database, project specific application programming code, and all other associated documentation.

B. Owner shall be able to add or remove user and passwords to access control system.

3.7 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain control systems and components.
   1. Train Owner's maintenance personnel on procedures and schedules for starting and stopping, troubleshooting, servicing, and maintaining equipment and schedules.
   2. Provide operator training on data display, alarm and status descriptors, requesting data, executing commands, calibrating and adjusting devices, resetting default values, and requesting logs. Include a minimum of 20 hours dedicated instructor time on-site.
   3. Schedule training with Owner/CxA, through Architect, with at least seven days' advance notice.

3.8 TRAINING OF SCHOOL OPERATOR

A. Temperature Controls Contractor shall provide 40 hours of basic control system training within 3-months of date of substantial completion. Hours may be utilized consecutively or separated into multiple sessions, the date and time(s) of these sessions will be at the school district's discretion.

B. In addition to the initial training, a total quantity of 5, 4-hour training sessions at building shall be given quarterly during the first 18-months after substantial completion to familiarize maintenance personnel on the operation of the mechanical and control systems through the host computer. Contractor should make arrangements to accommodate multiple school district attendees at each training session. No limit shall be set on number of school district attendees. At least one week notice shall be given to district to schedule training session, at the school districts discretion.

C. Obtain a receipt acknowledging completion of each item of instruction.
   1. Without sign in sheet, copies of instructional material, recordings of sessions, etc., the training session will not be deemed as an acceptable training session.

3.9 ON-SITE ASSISTANCE

A. Seasonal Adjustments: Within the first 2 years after substantial completion, the Temperature Controls Contractor shall provide no less than 7 Project site(s) visits (minimum of 4 hours per site(s) visit), when requested by Owner/CxA, to adjust and calibrate components and to assist Owner's personnel in making program changes and in adjusting sensors and controls to suit actual conditions.
   1. If the above site visits are not utilized by the owner, the contractor is to visit each building during the first heating or cooling season to make repairs and adjustments to provide uniform conditions throughout.
   2. Prepare and submit a report for each visit documenting conditions found and corrective action taken. Report to be signed by owner for documentation.

B. Contractor and Owner/CxA to review electrical demand trended data in order to determine the electrical demand limit, which triggers the demand limiting sequence, for each building.

3.10 COMPLETION

A. Prior to final inspection, this Contractor shall perform the following service work, including, but not limited to, the following items:
   1. Check mechanical mechanisms; lubricate, adjust and tighten as necessary.
   2. Calibrate control instruments and devices.
   3. Observe and Confirm Functionality; schedule, fine-tune operation, set-point adjustments.

B. When the work is completed, and at a time directed by the Owner, Commissioning Agent (CxA) and the Architect/Engineer, the Contractor shall carefully adjust all parts of the equipment and systems. This includes adjustment of automatic controls and safety devices, proper setting of adjustable devices, dampers and valves, and other necessary operations so the systems are fully operable and automatic in operation. Upon completion of the Work, notify the Owner/CxA, and Architect/Engineer that system is ready for final tests and inspection.

C. At the time of final inspection, this Contractor shall be represented by a person with the proper authority, who shall demonstrate, as directed by the Owner/CxA and Architect/Engineer, Work shall fully complies with the purpose and intent of the Specifications and Drawings. Labor, services, instruments, and tools necessary for demonstrations and tests shall be provided by the Contractor.

D. Contractor shall test and adjust each instrument specialty and equipment furnished by him, prior to final acceptance. Contractor shall demonstrate, for approval by the Project Engineer, that subsystems operate as a coordinated and properly functioning, integrated system.

E. Contractor shall furnish labor, provide adjustments, and incidentals to obtain desired results.

END OF SECTION 23 09 00

SECTION 27 41 17 - INTEGRATED A/V CONTROL SYSTEMS AND EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

A. This section includes but is not limited to the minimum requirements for the installation, configuration and training of the audio-visual components in the LGI, Steam shown on sheet T1.05 and Gym/Cafe as depicted on sheet T1.06 of the Drawings and required by these specifications. The Gym/Café A/V system shall be capable of being used independently as well as together as one system.

B. These Specifications, together with the Drawings accompanying them, are intended to depict the installation requirements necessary to support this Project. Contractor shall furnish materials shown and/or called for on the Drawings but not mentioned in the Specifications, or vice versa, that are necessary for the installation and support of communications cabling, whether specifically called for in both. In addition, Contractor shall provide incidental equipment and materials required for the completion of systems included in this contract whether specified or shown on the drawings.

C. All required back boxes and conduit to support the AV systems are provided and installed by others. Contractor is required to provide, install, test, and configure all cabling, equipment, and AV systems as described within this specification and as shown on the Tech drawings.

D. This section includes minimum requirements for the following:

1. Audio Transmitter Type 1
2. Audio Transmitter Type 2
3. Matrix Transmitter Type 1
4. Matrix Transmitter Type 2
5. Matrix Receiver
6. LGI & STEAM Projectors
7. Rack Mounted Mixer
8. AV Switcher Type 1
9. AV Switcher Type 2
10. AV Switcher Type 3
11. Classroom Audio System
12. Control Panel
13. AV Network Switch
14. Touch Panel Type 1
15. Touch Panel Type 2
16. Digital Signal Processor Type 1
17. Digital Signal Processor Type 2
18. Digital Signal Processor Type 3
19. Power Amplifier Type 1
20. Power Amplifier Type 2
21. Power Amplifier Type 3
22. Wireless Microphone Receiver Type 1
23. Wireless Microphone Receiver Type 2
24. Antenna Distribution

25. Digital Mixing Console
26. Hearing Assist Transmitter
27. Gymnasium/Cafe Loudspeakers
28. Loudspeaker Rigging Components
29. AV Equipment Stage Rack – Reuse Existing Gym/Cafe
30. AV Equipment Stage Mobile Rack – Reuse Existing Gym/Cafe
31. AV Equipment Rack Blanks
32. AV Equipment Rack Vents
33. Microphone/Line Level Cabling
34. 12 AWG Loudspeaker Cabling
35. 16 AWG Loudspeaker Cabling
36. UTP Cabling
37. STP Cabling
38. HDMI Cabling
39. RS-232 Cabling
40. Relay Cabling
41. RF Cabling
42. Custom Faceplates
43. Grommeted Faceplates
44. XLR Panel Mount Connectors
45. RCA Panel Mount Connectors
46. BNC Panel Mount Connectors
47. Ethernet Panel Mount Connectors
48. HDMI Panel Mount Connectors
49. RS-232 Panel Mount Connectors
50. XLR Cable Connectors
51. RCA Male Cable Connectors
52. BNC Cable Connectors

1.3 QUALITY ASSURANCE

A. The following industry Standards are the basis for the audio-visual system described herein. The list is incorporated by this reference to them.

1. ANSI - American National Safety Institute
2. ASTM - American Society of Testing and Materials
3. EIA - Electronics Industries Association
4. FCC - Federal Communications Commission
5. NEMA - National Electrical Manufacturer’s Association
6. OSHA - Occupational Safety and Health Administration
7. NEC - National Electric Code.
8. NFPA - National Fire Protection Association.
9. IEEE - Institute of Electrical and Electronics Engineers.
10. ISO - International Standards Organization.
11. UL - Underwriters Laboratories
12. Davis and Davis, Sound System Engineering (2nd Edition), Howard W. Sams, 1987
13. Giddings, Audio System Design and Installation (ASDI), Howard W. Sams, 1990

B. All cable and equipment shall be installed in a neat and skillful manner. Equipment and materials shall be of the quality and manufacturer indicated. The equipment specified is based upon the acceptable manufacturers listed. Where "Or equal" is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.

C. Materials and work specified herein shall comply with the requirements of the local Authority Having Jurisdiction.

D. Contractor should have the following qualifications:

1. Experienced in the installation of systems similar in complexity and scale to those included within the scope of work. If requested, the Contractor shall provide the names, locations, and points of contact for at least three installations of the type and complexity specified herein.
2. Within the last two (2) years, installed an audio-visual system with similar equipment and functionality.
3. Have at least one (1) person on staff with CTS-I certification.

1.4 SUBMITTALS

A. Provide update one line drawing/detail for each system for approval.

B. See front end submittals section for more information.

C. See Common Work Results For Communications section 270500 for more submittal requirements.

1.5 RECORD DRAWINGS / OPERATION AND MAINTENANCE MANUALS

A. Provide record drawings and operation and maintenance manuals, as described in Sections – "Operation and Maintenance of Communications Systems" and Common Work Results for Communications Systems".

1.6 DELIVERY, STORAGE, AND HANDLING

A. Equipment and components shall arrive onsite properly protected and undamaged with containers, packaging, and labels intact.

B. Store, handle and protect materials and equipment in accordance with Manufacturer's recommendations.

C. Store materials and equipment in dry, environmentally controlled space. Do not install equipment and materials until spaces are enclosed, watertight, and dry. Protect equipment from dust and other airborne materials.

D. Provide additional protection during handling as necessary to prevent breaking, scraping, marring, or otherwise damaging products or surrounding areas.

E. Protect all equipment and components that are to be installed within this project from theft, vandalism, and exposure to rain, freezing temperatures and direct sunlight.

F. Protect installed equipment and components from damage and prevent use by unauthorized persons.

1.7 WARRANTY

A. The integrated audio video system and equipment for classrooms shall carry a warranty as specified in Section – "Demonstration and Training of Communications Systems". The warranty shall include all labor and material to replace all components that fail and or do not comply with the performance specifications.

B. Contractor shall repair, adjust, and/or replace, whichever the Owner determines to be in its best interests, any defective equipment, materials, or workmanship, as well as such parts of the work damaged or destroyed by such defect, during the warranty period, at the Contractor's sole cost and expense. If parts or components need to be repaired, then a loaner will be supplied and installed until the part or component can be repaired and reinstalled.

C. Manufacturer certified technicians shall perform all service work.

D. At the end of the warranty period, the Contractor shall complete one (1) site visit to evaluate the status of the audio-visual systems. All equipment within this scope of work found to be defective shall be replaced at no cost to the Owner.

E. Guarantees of material, equipment, and workmanship running in favor of the Contractor shall be transferred and assigned to the Owner on completion of the work and acceptance of said work by the Owner.

PART 2 - PRODUCTS

2.1 AUDIO TRANSMITTER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall include two (2) channels of stereo audio.
2. Shall include balanced audio outputs on XLR connectors.
3. Shall have a frequency response of 10 – 20,000 Hz.
4. Shall support Bluetooth 5.0, WAV, MP3, AAC.
5. Shall be rack mountable.
6. Acceptable Manufacturers:
    a. Denon Pro DN-500CB
    b. Or Equal

2.2 AUDIO TRANSMITTER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall include two (2) channels of stereo audio.
2. Shall include balanced audio outputs on XLR connectors.
3. Shall have a frequency response of 20 Hz – 18 kHz.
4. Shall support Bluetooth 4.0, SBC, MP3, AAC.
5. Shall be rack mountable.
6. Acceptable Manufacturers:
    a. Denon Pro DN-300BR
    b. Or Equal

2.3 MATRIX TRANSMITTER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall be capable of accepting digital video input.
2. Shall be capable of transmitting audio and video over UTP cabling.
3. Shall have a minimum of one (1) HDMI input and one (1) 3.5mm audio input.
4. Shall have a minimum of one (1) DTP output.
5. Shall support resolutions up to and including 1920x1200p.
6. Shall be HDCP compliant.
7. Shall be wall mountable.

8. Acceptable Manufacturers:
    a. Extron DTP T HWP 4K 231 D
    b. Or Equal

2.4 MATRIX TRANSMITTER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall be capable of accepting digital video input.
2. Shall be capable of transmitting audio and video over UTP cabling.
3. Shall have a minimum of one (1) HDMI input.
4. Shall have a minimum of one (1) STP output.
5. Shall support resolutions up to and including 1920x1200p or higher.
6. Shall be HDCP compliant.
7. Acceptable Manufacturers:
    a. Extron DTP HDMI 4K 230 TX
    b. Or Equal

2.5 MATRIX RECEIVER

A. Shall meet or exceed the following specifications:

1. Shall have a STP cabling input.
2. Shall have a minimum of one (1) HDMI output with stereo audio output.
3. Shall support resolutions of up to and including 1920x1200 or higher.
4. Shall be HDCP compliant.
5. Acceptable Manufacturers:
    a. Extron DTP HDMI 4K 230 Rx
    b. Or Equal

2.6 PROJECTORS

A. Shall meet or exceed the following specifications:

1. Install and program the full A/V systems as shown on drawing T1-05 technology details as turnkey systems with no existing equipment provided by the owner.
2. Provide and install two ceiling mounted projectors with mounts in the LGI room 221.
    a. Brightness of 10,000 ISO Lumens
    b. WUXGA (1920 x 1200) Native Resolution
    c. 1.36-2.10:1 Standard Throw Lens Included
    d. 25,000:1 Evolved Dynamic Contrast
    e. 1 x DisplayPort & 2 x HDMI Inputs
    f. Expandable with Intel SDM-Ready Slot
    g. 360° Orientation Support
    h. 21:9 Aspect Ratio Support
    i. Controllable via LAN & RS-232
    j. Support for Crestron, PJLink & Others
    k. Basis of Design:
        - Panasonic PT-REZ10WU7 10,000-Lumen WUXGA DLP Laser Projector (White)
        - Peerless-AV® Heavy Duty Universal Projector Mount with Adjustable Length Extension Columns and Ceiling Plate Accessories

3. Provide and Install two short throw wall mounted projectors in the Steam Lab room 235.
    a. 3-chip 3LCD technology; 5,000 lumens of color/white brightness2
    b. 1080p with 4K Enhancement1 for stunning image clarity
    c. Up to 160" diagonal image; 4.5x larger than a 75" flat panel
    d. Easy integration with native 16:9 aspect ratio, supports 16:10, 21:9, 16:6
    e. Up-to-30,000-hour virtually maintenance-free laser light source
    f. Basis of Design:
        - PowerLite 810E 3LCD Extreme Short Throw Lamp-Free Laser Display with 4K Enhancement
        - Extreme Short Throw Wall Mount (ELPMB75)

4. Both rooms projector locations shall be marked up and coordinated with all other trades for location, drop and full screen coverage before installation

2.7 RACK MOUNTED MIXER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of four (4) balanced mic/line level inputs.
2. Shall have a minimum of one (1) balanced stereo input.
3. Shall have a minimum of one (1) balanced mono output.
4. Shall have a minimum of one (1) balanced stereo output.
5. Shall be 1RU rack mountable.
6. Acceptable Manufacturers:
    a. Denon Pro DN-312X
    b. Or equal

2.8 AV SWITCHER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of two (2) HDMI inputs.
2. Shall have a minimum of two (2) STP inputs.
3. Shall have a minimum of two (2) HDMI outputs.
4. Shall have a minimum of two (2) STP outputs.
5. Shall have a minimum of one (1) balanced stereo audio output.
6. Shall have a minimum of one (1) RS-232 and one (1) relay control input.
7. Shall support resolutions up to and including 4096x2160.
8. Shall be HDCP compliant.
1. Acceptable Manufacturers:
    a. Extron DTP2 Crosspoint 82 IPCP SA
    b. Or Equal

2.9 AV SWITCHER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of two (2) HDMI inputs.
2. Shall have a minimum of two (2) STP inputs.
3. Shall have a minimum of two (2) HDMI outputs.
4. Shall have a minimum of two (2) STP outputs.
5. Shall have a minimum of one (1) balanced stereo audio output.
6. Shall have a minimum of one (1) RS-232 and one (1) relay control input.
7. Shall support resolutions up to and including 1920x1080p.
8. Shall be HDCP compliant.

9. Acceptable Manufacturers:
    a. Extron DTP Crosspoint 86 4K IPCP SA
    b. Or Equal

2.10 AV SWITCHER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of three (3) HDMI inputs.
2. Shall have a minimum of one (1) HDMI outputs.
3. Shall support resolutions up to and including 1920x1080p.
4. Shall be HDCP compliant.
5. Acceptable Manufacturers:
    a. Extron SW4 HD 4K
    b. Or Equal

2.11 CLASSROOM AUDIO SYSTEMS

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of four (4) audio inputs.
2. Shall have a frequency response of 120 Hz – 7 kHz.
3. Shall have a wireless range up to 200 ft.
4. Shall have individual volume controls for each source.
5. Provide all necessary hardware to wall mount at locations.
6. Acceptable Manufacturers:
    a. LightSpeed 955 Access – STEAM LAB
    b. SHURE – QLXD4-50 – LGI ROOM

2.12 CONTROL PANEL

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) LAN port.
2. Shall have a minimum of one (1) RS-232 control port.
3. Shall include six buttons for control.
4. Shall provide for control of AV system including, but not limited to, system power, source selection, and audio volumes.
5. Acceptable Manufacturers:
    a. Extron MLC 55 RS
    b. Or Equal

2.13 AV NETWORK SWITCH

A. Shall meet or exceed the following specifications:

1. Shall have quantity of Ethernet ports required.
2. Shall be manageable.
3. Shall be 1RU rack mountable.
4. Acceptable Manufacturers:
    a. Cisco SG350 Series
    b. Or equal

2.14 TOUCH PANEL TYPE 1

A. Shall meet the following specifications:

1. Shall have Ethernet monitoring and control.
2. Shall have a capacitive touch screen interface.
3. Shall have a resolution of 1024x600.
4. Shall be 7” diagonal.
5. Shall have a contrast ratio of 700:1
6. Provide all necessary hardware and brackets required for installation.
7. Confirm final color with owner prior to procurement & installation.
8. Acceptable Manufacturers:
   a. Extron TLP Pro 725M
   b. Or Equal

2.15 TOUCH PANEL TYPE 2

A. Shall meet the following specifications:

1. Shall have Ethernet monitoring and control.
2. Shall have a capacitive touch screen interface.
3. Shall have a resolution of 1280x800.
4. Shall be 10” diagonal.
5. Shall have a contrast ratio of 800:1
6. Provide all necessary hardware and brackets required for installation.
7. Confirm final color with owner prior to procurement & installation.
8. Acceptable Manufacturers:
   a. Extron TLP Pro 1025M
   b. Or Equal

2.16 DIGITAL SIGNAL PROCESSOR TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have two (2) mic/line inputs and two (2) line outputs.
2. Shall provide a fixed architecture for signal routing.
3. Control software to include, but not limited to matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
4. Acceptable Manufacturers:
   a. JBL CSMA 280
   b. Or equal

2.17 DIGITAL SIGNAL PROCESSOR TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have four (4) mic/line inputs and four (4) line outputs.
2. Shall provide for analog and digital input/outputs.
3. Shall provide an open architecture for signal routing.
4. Shall have twelve (12) control ports and 6 logic ports.
5. Control software to include, but not limited to: matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
6. Shall have proprietary audio transport.
7. Acceptable Manufacturers:

a. BSS Audio BLU-50
b. Or equal

2.18 DIGITAL SIGNAL PROCESSOR TYPE 3

A. Shall meet or exceed the following specifications:
1. Shall have four (4) card slots for configurable input/output quantities
2. Shall provide for analog and digital input/outputs.
3. Shall provide an open architecture for signal routing.
4. Shall have twelve (12) control ports and 6 logic ports
5. Control software to include, but not limited to: matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
6. Shall be DANTE capable.
7. Acceptable Manufacturers:
a. BSS Audio BLU-806DA with required IO cards
b. Or equal

2.19 POWER AMPLIFIER TYPE 1

A. Shall meet or exceed the following specifications:
1. Shall have a continuous power rating of a minimum of 150 watts at 4 ohms per channel.
2. Shall provide four channels of amplification.
3. Shall be bridged to provide 300W at 8 ohms per channel.
4. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
5. Shall have a maximum of 0.5% THD at 1kHz.
6. Shall have a signal to noise ratio of at least 103dB.
7. Shall have a maximum input level of +21dBu.
8. Acceptable Manufacturers:
a. Ashly Audio SRA4150
b. Or equal

2.20 POWER AMPLIFIER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a continuous power rating of a minimum of 200 watts into 70V load per channel.
2. Shall provide two channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.1% THD at 1kHz.
5. Shall have a signal to noise ratio of at least 100dB.
6. Shall have a maximum input level of +20dBu.
7. Acceptable Manufacturers:
a. Extron XPA 2002
b. Or equal

2.21 POWER AMPLIFIER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall have a continuous power rating of a minimum of 600 watts into 8 ohm or 70V load per channel.

2. Shall provide four channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, outputoverload, or short circuits.
4. Shall have a maximum of 0.35% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 108dB.
6. Shall have a maximum input level of +20dBu.
7. Acceptable Manufacturers:
    a. Crown Audio DCi 4|600
    b. Or equal

2.22 WIRELESS MICROPHONE RECEIVER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum frequency response of 20-20000Hz ± 1dB.
2. Shall utilize a 64 MHz bandwidth.
3. Shall provide automatic frequency scanning.
4. Transmitters and receivers shall utilize a metal housing.
5. Shall have a minimum dynamic range of 120dB.
6. Coordinate operating frequency with local RF environment.
7. Provide and install remote antennae and antenna distribution as required.
8. Acceptable Manufacturers:
    a. Shure QLXD124/85
    b. Or equal

2.23 WIRELESS MICROPHONE RECEIVER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall utilize a 64 MHz bandwidth.
2. Shall provide digital predictive switching for true diversity.
3. Shall have up to 60 frequency presets available.
4. Shall provide automatic frequency scanning.
5. Transmitters and receivers shall utilize a metal housing.
6. Coordinate operating frequency with local RF environment.
7. Acceptable Manufacturers:
    a. Shure ULXD4Q
    b. Or equal

2.24 ANTENNA DISTRIBUTION

A. Shall meet or exceed the following specifications:

1. Shall have a frequency range of 174 to 1805 MHz.
2. Shall support up to five wireless receivers.
3. Shall have rack mounting capabilities.
4. Acceptable Manufacturers:
    a. Shure UA844+
    b. Or equal

2.25 DIGITAL MIXING CONSOLE

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of forty (40) mono and two (2) stereo mixing channels.

2. Shall have a minimum of sixteen (16) analog inputs on XLR connectors.
3. Shall have a minimum of sixteen (16) analog outputs on XLR connectors.
4. Shall be DANTE capable.
5. Shall have integrated processing including high-pass filters, parametric EQs, and compressors.
6. Shall incorporate a touchscreen for control or be controlled via an iPad app.
7. Acceptable Manufacturers:
    a. Yamaha TF1 with Yamaha Ri8-D
    b. Or equal

2.26 HEARING ASSIST TRANSMITTER

A. Shall meet or exceed the following specifications:
1. Shall have a minimum of two (2) balanced audio inputs on XLR and/or RCA connectors.
2. Shall have an internal audio compressor.
3. Shall have an operating frequency of 216MHz.
4. Shall have a maximum output power of 100mW.
5. Provide remote antenna as shown on the TAV-series drawings.
6. Provide quantity and type of receivers to meet ADA requirements.
7. Provide charging carrying case to accommodate all receivers.
8. Acceptable Manufacturers:
    a. Listen Tech LT-800-216
    b. Listen Tech LA-122
    c. Listen Tech LT-400-216
    d. Listen Tech LA-164
    e. Listen Tech LA-165
    f. Listen Tech LA-166

2.27 GYMNASIUM LOUDSPEAKERS

A. Shall meet or exceed the following specifications:

1. Shall be a two-way configuration with a 12” LF driver and 1.5” HF compression driver.
2. Shall have a coverage pattern of 90ºH x 50ºH, rotatable.
3. Shall have a power rating of no less than 300W.
4. Shall have a peak SPL of 122dB.
5. Shall have a frequency response of 43Hz – 20000Hz ±3dB.
6. Provide all necessary hardware and brackets required for installation.
7. Verify color with Architect.
8. Acceptable Manufacturers:
    a. JBL Pro AM5212/95
    b. Or equal

2.28 LOUDSPEAKER RIGGING COMPONENTS

A. Contractor shall provide and install speaker rigging components as necessary to mount main loudspeakers as shown on the drawings.

B. Structural support members to have a safety factor of at least 5. Mounting hardware and wire rope to have a safety factor of 8. All fasteners to be graded and certified for use in the intended applications. Overhead suspension hardware shall comply with ASME B30.20 standards and all applicable local building and safety codes.

C. Overhead suspension hardware must be of a type that includes product traceability controls.

D. Once the systems are installed, the engineer shall physically inspect the methods and means used to verify compliance with the original design.

E. Loudspeaker Rigging Components shall meet or exceed the following specifications:

1. Loudspeaker Rigging Components shall be made of quenched or tempered forged steel.
2. Loudspeaker Rigging Components shall meet or exceed all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements.
3. Loudspeaker Rigging Components shall be hot dip galvanized or self-colored.
4. Shackles shall meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class1.
5. Turnbuckles shall meet the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 4, and ASTM F-1145.
6. Wire rope thimble shall meet the performance requirements of Federal Specification FF-T-276b Type II.
7. Wire rope shall be sized as 7x19 utility cable.
8. Provide all screw pin type shackles with mouse wire.
9. All end fittings shall be moused to the body with mousing cable.
10. Select size of product based working load limits required.
11. Acceptable product:
    a. Chicago Hardware Company
    b. Crosby Group
    c. Wire Rope Corporation of America (WRCA)

2.29 AV EQUIPMENT STAGE RACK – EXISTING TO BE REMAIN

A. Shall meet or exceed the following specifications:

1. Shall have 44 units of available rack space.
2. Shall have 16-gauge steel construction with black textured powder coat finish.
3. Shall have side panels and fans for proper cooling.
4. Shall have an overall depth of 31.4” and useable depth of 29”.
5. Acceptable Manufacturers:
    a. Middle Atlantic MRK-4431
    b. Or Equal

2.30 AV EQUIPMENT STAGE MOBILE RACK – EXISTING TO BE REMAIN

A. Shall meet or exceed the following specifications:

1. Shall have 12 units of available rack space on bottom and 12 units of slanted rack space on top for digital mixing console
2. Shall be constructed of 9mm plywood construction with laminated exterior.
3. Shall have 3.2mm thick front rack rails
4. Shall have integrated twist latches and spring-loaded rubber-gripped handles.
5. Shall have an overall depth of 37.5”.
6. Acceptable Manufacturers:
    a. Gator Cases G-TOUR-GRC12X12
    b. Or Equal

2.31 EQUIPMENT RACK BLANKS

A. Contractor to provide equipment rack blanks where required.

B. Shall meet or exceed the following specifications:

1. Shall have a flanged construction.
2. Shall be made of 1/16” thick aluminum.
3. Shall have a black brushed and anodized finish.
4. Provide rack blank sizes as required.
5. Acceptable Manufacturers:
    a. Middle Atlantic BL Series
    b. Or Equal

2.32 EQUIPMENT RACK VENTS

A. Contractor to provide equipment rack vents where required.

B. Equipment rack vents shall meet or exceed the following specifications:

1. Shall have a flanged construction.
2. Shall be made of 1/16” thick aluminum.
3. Shall have a black brushed and anodized finish.
4. Provide rack vent sizes as required.
5. Acceptable Manufacturers:
    a. Middle Atlantic VTP Series
    b. Or Equal

2.33 MICROPHONE/LINE LEVEL CABLING

A. Contractor shall provide and install microphone/line level cabling as required.

1. Provide cabling meeting the following specifications:

    a. Minimum shielded 22 AWG, 7x30 stranded cabling
    b. Nominal conductor to conductor capacitance: 114 pF/m
    c. Tinned copper drain wire
    d. Cable to be PVC jacketed.

2. Acceptable Manufacturers
    a. Belden 9451
    b. Or Equal

2.34 12AWG LOUDSPEAKER CABLING

A. Contractor shall provide and install 12AWG loudspeaker cabling as required.

1. Provide speaker cabling meeting the following specifications:

    a. Minimum unshielded 12 AWG, 65x30 stranded cabling
    b. Nominal conductor to conductor capacitance: 32 pF/ft
    c. Cable to be PVC jacketed.

2. Acceptable Manufacturers
    a. Belden 5000UP
    b. Or Equal

2.35 16AWG LOUDSPEAKER CABLING

A. Contractor shall provide and install 16AWG loudspeaker cabling as required.

1. Provide speaker cabling meeting the following specifications:

a. Minimum unshielded 16 AWG, 65x34 stranded cabling
b. Nominal conductor to conductor capacitance: 98 pF/ft
c. Cable to be PVC jacketed.

2. Acceptable Manufacturers

a. Belden 5200UP
b. Or Equal

2.36 UTP CABLING

A. Contractor shall provide and install UTP cabling as required per manufacturer's recommendations.

1. Provide UTP cabling meeting the following specifications.

a. Minimum 24 AWG, eight (8) conductor cable
b. Nominal conductor to conductor capacitance: 15 pF/ft

2. Acceptable Manufacturers
a. Belden
b. Commscope
c. General Cable
d. Superior Essex
e. Or Equal

2.37 STP CABLING

A. Contractor shall provide and install STP cabling as required per manufacturer's recommendations.

1. Acceptable Manufacturers
a. Crestron
b. Or Equal

2.38 HDMI CABLING

A. Contractor shall provide and install HDMI cabling as required.

1. Provide pre-molded cables in lengths as required.
2. Shall support HDMI signal transmission up to 328 ft. via optical cabling.
3. Shall support up to 4k 60Hz 4:4:4 HDR video.
4. Shall meet HDMI 2.0/HDCP 2.2 testing standards.
5. Shall be plenum rated.
6. Shall not require external power.
7. Acceptable Manufacturers

a. FSR HDMI 2.0 Digital Ribbon Cables
b. Or Equal

2.39 RS-232 CABLING

A. Contractor shall provide and install RS-232 cabling as required.

1. Provide pre-molded cables in lengths as required.
2. Acceptable Manufacturers
   a. Crestron
   b. Or Equal

2.40 RELAY CABLING

A. Contractor shall provide and install audio video control cabling as required.

1. Provide control cabling meeting the following specifications:

   a. Minimum unshielded 22 AWG, 26x34 stranded cabling
   b. Nominal conductor to conductor capacitance: 98 pF/m
   c. Provide number of conductors as required.

2. Acceptable Manufacturers
   a. Belden
   b. Or Equal

2.41 RF CABLING

A. Contractor shall provide and install RF cabling as required.

1. Provide RF cabling meeting the following specifications:

   a. Provide RG-8X type cable.
   b. Center conductor 16 AWG solid.
   c. Gas-injected FPE insulation
   d. Cable to be PVC jacketed.

2. Acceptable Product:
   a. Belden 9258
   b. Or Equal

2.42 CUSTOM FACEPLATE

A. Contractor shall provide plates as required by the T-series drawings. Engrave as shown on the drawings.

B. Contractor shall coordinate plate finish and color with the Owner. Plastic plates are not acceptable.

C. On dark plates, letters shall be white; on stainless steel or brushed natural aluminum plates, letters shall be black.

D. Custom and/or engraved plates/panels:
1. Custom panels constructed of 1/8-inch brushed aluminum
2. Finish: Black Anodized.

3. Acceptable Manufacturer:
    a. ProCo
    b. Or Equal

2.43 GROMMETED FACEPLATES

A. Contractor shall provide grommet faceplates as needed by audio and video locations as shown on the T-series drawings.

B. Grommet faceplates shall provide a minimum of 1.5” Diameter opening for cable pass-through unless otherwise noted.

C. Contractor shall coordinate plate finish and color with the Owner. Plastic plates are not acceptable.

D. Grommeted plates/panels:

1. Custom panels constructed of 1/8-inch brushed aluminum
2. Finish: Black Anodized.
3. Acceptable Manufacturer:
    a. ProCo
    b. Or Equal

2.44 XLR PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of XLR jacks as needed.

B. Provide XLR jack meeting the following specifications:

1. XLR jack shall be panel mounted with metal shell.
2. XLR jack shall utilize gold contact solder terminations.
3. Shell color shall match plate finish.
4. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.45 RCA PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of RCA jacks as needed.

B. Provide RCA jack meeting the following specifications:

1. RCA jack shall be panel mounted with metal shell.
2. RCA jack shall utilize gold contact solder terminations.
3. Shell color shall match plate finish.
4. Each RCA jack shall have correct color code depending on input (i.e. left or right).
5. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.46 BNC PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of BNC jacks as needed.

B. Provide BNC jack meeting the following specifications:

1. BNC jack shall be panel mounted with metal shell.
2. BNC jack shall utilize an RF protector.
3. BNC jack shall utilize a feed-through connector.
4. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.47 ETHERNET PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of Ethernet jacks as needed.

B. Provide Ethernet jack meeting the following specifications:

1. Ethernet jack shall be panel mounted with metal shell.
2. Ethernet jack shall utilize bronze contact terminations.
3. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.48 HDMI PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of HDMI jacks as needed.

B. Provide HDMI jack meeting the following specifications:

1. Shall be compatible with telecom faceplate.
2. Shall meet HDMI 1.4 standards.
3. Shall utilize a Type A female port.
4. Color shall match telecom faceplate.
5. Acceptable Manufacturers:
    a. Panduit CMHDMIXX
    b. Or Equal

2.49 RS-232 PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of RS-232 jacks as needed.

B. Provide RS-232 jack meeting the following specifications:

1. Shall be compatible with telecom faceplate.
2. Shall provide RS-232 female port.
3. Color shall match telecom faceplate.
4. Acceptable Manufacturers:
    a. Panduit CMD15HDXXX
    b. Or Equal

2.50 XLR CABLE CONNECTORS

A. Contractor shall provide the quantity of XLR cable connectors as needed.

B. Provide XLR cable connector meeting the following specifications:

1. XLR cable connector shall have black die-cast shell.
2. XLR cable connector shall utilize gold contact solder terminations.
3. XLR cable connector shall include strain relief.
4. Acceptable Manufacturers:
   a. Neutrik
   b. Switchcraft
   c. Or Equal

2.51 RCA MALE CABLE CONNECTORS

A. Contractor shall provide the quantity of RCA male cable connectors as needed.

B. Provide RCA cable connector meeting the following specifications:

1. RCA cable connector shall have a silver die-cast shell.
2. XLR jack shall utilize silver contact solder terminations.
3. Acceptable Manufacturers:
   a. Neutrik
   b. Switchcraft
   c. Or Equal

2.52 BNC CABLE CONNECTORS

A. Contractor shall provide the quantity of BNC cable connectors as shown on the T-series drawings.

B. Provide BNC cable connector meeting the following specifications:
1. BNC cable connector shall have brass or copper contacts.
2. BNC cable connector shall utilize a crimp termination.
3. BNC cable connector shall provide the proper impedance.
4. Acceptable Manufacturers:
   a. Kings
   b. Amphenol
   c. Canare

PART 3 - EXECUTION

3.1 GENERAL

A. Coordinate incorporation of the Work specified herein with other project work to facilitate a cohesive final product.

B. The installation recommendations contained within ASDI and Telecommunications Distribution Methods Manual are mandatory minimum standards and requirements.

C. Mount equipment and enclosures plumb and level.

D. Permanently installed equipment to be firmly and safely held in place. Design equipment supports to support loads imposed with a safety factor of at least five.

E. Seismic bracing shall be installed on appropriate equipment where local codes require such installation.

F. Verify all locations of equipment in all rooms with Owner's Representative, Owner, and

Consultant.

G. Follow all manufacturer requirements and recommendations for the installation of all AV equipment.

3.2 CEILING MOUNTED SPEAKERS

A. Shall be wired in parallel according to Manufacturer specifications.

B. All speaker cabling shall be supported above the ceiling and may not rest on ceiling tiles or other structural devices.

C. A minimum five (5) foot service loop shall be provided and secured above each speaker.

3.3 RACK MOUNT POWER SEQUENCER

A. Contractor to ensure all equipment is powered in the correct order to avoid audible pops or click from the audio-video system in response to the power sequencing.

3.4 AUDIO VIDEO CONTROL SYSTEM

A. Control system shall be programmed to at a minimum switch between available AV sources, power on/off video projector and control audio source and system volume.

B. Contractor to provide iterations of the touchscreen layout and programming for review by the Owner and Consultant. The first phase will involve only the layout and proposed operation. Once reviewed, the Contractor will utilize this information to begin programing the touch panels. The touch panels will be reviewed again after the programming has been implemented in the field. Any changes from this phase shall be incorporated into the work. Final review will occur at the one-year walk-through.

3.5 CABLING

A. All cable routing shall meet Owner's standards.

B. Run wire with conduit, exposed above accessible ceilings, below accessible floors, cable trays and in riser rooms.

C. Provide plenum cabling where required.

D. J-hooks shall be used so cables are supported at a maximum of 4 feet intervals. Cables shall not rest on light fixtures, ceiling tiles, conduits, sprinkler pipes, HVAC ducting, or any other building structure. Provide appropriate support for all horizontal to vertical transitions to keep weight of cable from damaging the point of transition.

E. Horizontal cabling shall be in groups of no more than 60 cables when supported by J-hooks.

F. Cable runs shall be continuous from device location to the point of termination. Properly installed transition points are acceptable.

G. Provide plastic cable ties or Velcro straps to bundle cabling. Electrical tape or adhesive backed cable ties are not acceptable.

H. Isolate cabling of different signals to minimize crosstalk. Separate wiring between

microphone/line level circuits, loudspeaker circuits, and power circuits.

I. Dress, lace, and/or harness all wiring and cabling to prevent mechanical stress on electrical connections. Neatly tie cabling in bundles with cable lengths cut to minimize excess slack.

J. Provide adequate service loops to allow equipment racks to be pulled out for servicing.

K. To prevent against electrostatic hum, on unused shields, fold back shield over cable jacket and cover with heat-shrink tubing. Do not cut off unused shield.

L. Provide grommets and strain relief material where necessary to avoid abrasion of wire and excess tension on wire and cable.

3.6 COMPONENT CONNECTIONS

A. Prepare wire ends for attachment to components in accordance with manufacturer recommendations.

B. Wire nuts shall not be an acceptable means of connecting wire or cable.

3.7 LABELING

A. Cables, jacks, system components, etc. shall be labeled according to ANSI/EIA/TIA-606 specifications and in coordination with the District/Technology Consultant.

B. All Audio-Video cables shall be equipped with a self-laminating, wrap-around machine printed label at both ends of the cable and wiring label permanently affixed for easy identification.

C. Cover labels with clear heat-shrink tubing.

D. Hand-written labels are not acceptable.

E. Locate the cable designator at the origination and destination of each circuit within 3 inches of the termination.

3.8 AUDIO VIDEO PLATE INSTALLATION

A. Install plate mounted connectors rigidly attached to plates, plumb and level.

B. Install XLR type connectors in accordance with IED-268 standard.

3.9 TESTING

A. Prior to turning on the system, verify all electronic devices are properly grounded and each audio video AC receptacle has the proper hot, neutral, and ground connections.

B. Audio Testing:

1. Verify each amplifier channel is correctly wired by providing a test signal to each channel and verify the correct speakers are operating.
2. Adjust the input and output gain of each device to properly set the system gain.
3. Adjust the output level of each amplifier channel and/or speaker tap settings to achieve 85 dB ± 2 dB in the area covered by the respective speaker zone when the output of the

sound reinforcement system is set to 0 dBu.

4. Equalize all loudspeakers to provide an acceptable frequency response based on the specifications of the provided loudspeakers.
5. Verify no hum or buzz is present in the system at all operating levels. If present, propose a resolution and correct the issue at no cost to the Owner.

C. Video Testing:

1. Using a video signal generator, verify performance of all equipment meets manufacturer's specifications.
2. Verify correct operation of all inputs and outputs through audio video matrix switcher.

3.10 TRAINING

A. After final completion, provide instruction to Owner designated personnel.

B. Provide a minimum of twenty-four (24) hours of training to the Owner. Plan for multiple training trips to the site. Training session(s) shall cover the following topics at a minimum:
1. System Equipment Connectivity
2. Device Configurations
3. Operation, maintenance, and upgrade procedures.

C. Training to be arranged with Owner personnel and be coordinated with Owner personnel and their needs.

D. Training plan, timeline, and agenda shall be provided to and signed off by Owner.

E. Warranty certificate and agreement shall be provided to Owner at initial training session.

F. Provide a digital video copy of the training sessions.

G. Contractor to be present at first two (2) uses of the facility.

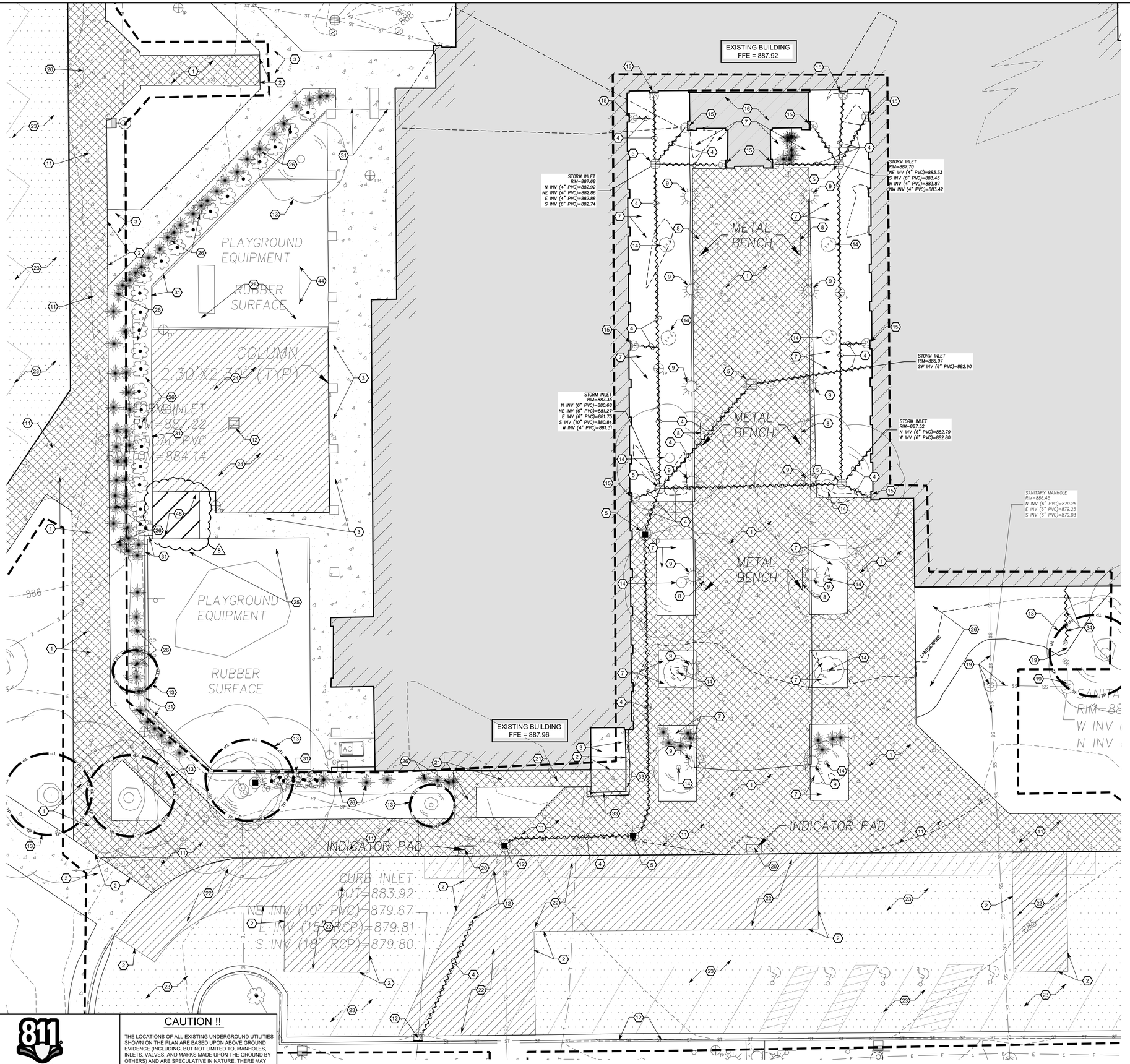
3.11 SYSTEM ACCEPTANCE

A. Contractor shall demonstrate to the Owner that all systems have been installed per the plans and specifications and that all programming functions, display functions, control functions and all interfaced equipment operate as expected.

B. Contractor shall demonstrate to the Owner that all the end user staff has a working knowledge of how to operate the installed equipment and that the facilities staff also has a working knowledge of the troubleshooting methods for non-critical service problems.

C. Contractor shall collaborate with the General Contractor to complete all punch lists and work required to allow the General Contractor to close out his project in a timely manner. This will include but not limited to any work that would impact any final inspection for turnover of the building.

END OF SECTION



DEMOLITION PLAN (SOUTH)

1" = 10'

NORTH

10 0 10

GENERAL NOTES

1. SEE DRAWING G0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY WEIHE ENGINEERS DATED 05/01/2025. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. SEE SHEET GD1.1, GD1.2 & GD1.3 FOR ADDITIONAL SITE DEMOLITION INFORMATION.
5. THE PROPOSED STORM SEWER SYSTEM FOR THIS PROJECT WILL BE PRIVATE OWNED.
6. FLOOD ROUTING PATH FROM BUILDING ADDITION AND PARKING LOT WHEN 100 YEAR FLOOD IS EXCEEDED DRAINS TO 136TH STREET.
7. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
8. UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE DEVELOPERS RESPONSIBILITY TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
9. DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.
10. ALL EXISTING PERIMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUESTED BY THE CITY TO ACCOMMODATE THE PAVEMENT WIDENING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
11. ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY.

DEMOLITION LEGEND

- EXISTING BUILDING
- APPROXIMATE LIMITS OF CONCRETE REMOVAL
- APPROXIMATE LIMITS OF ASPHALT PAVEMENT REMOVAL
- APPROXIMATE LIMITS OF ASPHALT MILLING
- APPROXIMATE LIMITS OF PLAYGROUND MULCH REMOVAL
- EXISTING CONCRETE
- APPROXIMATE LIMITS OF UTILITY LINE REMOVAL
- TREE PROTECTION REQUIRED
- CONSTRUCTION LIMITS

*** SEE TOPOGRAPHIC SURVEY FOR ADDITIONAL LEGEND SYMBOLS.

DEMOLITION KEYNOTES

1. REMOVE CONCRETE SIDEWALK
2. SAWCUT EXISTING PAVEMENT
3. PROTECT CONCRETE TO REMAIN
4. REMOVE 4", 6" & 10" DIA. STORM SEWER LINES
5. REMOVE EXISTING STORM INLET AREA DRAINS
7. REMOVE PLANTINGS
8. REMOVE BENCH
9. REMOVE LIGHT BOLLARDS AND FOUNDATIONS
10. PROTECT WATER LINE TO REMAIN
11. REMOVE MONOLITHIC CURB AND SIDEWALK
12. PROTECT STORM LINE AND STRUCTURE TO REMAIN
13. PROTECT EXISTING TREE TO REMAIN
14. REMOVE EXISTING TREE AS REQUIRED TO INSTALL IMPROVEMENTS
15. REMOVE DOWNSPOUT BOOT AND ASSOCIATED PIPING, REFER TO SITE UTILITY PLAN
16. REMOVE BUILDING AND FOUNDATIONS, SEE ARCHITECTURAL/STRUCTURAL PLANS
17. PROTECT LIGHT POLE AND LINE TO REMAIN
19. PROTECT SANITARY STRUCTURE AND LINE TO REMAIN
20. REMOVE CONCRETE ADA RAMP
21. REMOVE CONCRETE RAMP
22. REMOVE ASPHALT PAVEMENT
23. MILL ASPHALT SURFACE, SEE G1.0 OVERALL SITE PLAN FOR EXTENTS OF MILLING
24. REMOVE ASPHALT PAVEMENT - SEE DWGS SREL1.10 - SREL1.40
25. PROTECT PLAYGROUND SURFACING AND EQUIPMENT TO REMAIN
26. PROTECT LANDSCAPING TO REMAIN
31. REMOVE EXISTING FENCE FABRIC, HARDWARE, ACCESSORIES AND GATES - EXISTING POSTS AND CONCRETE CURBING TO REMAIN - DISPOSE OF ALL WASTE MATERIALS LEGALLY OFF SITE - SEE DWG SREL1.40
33. REMOVE CONCRETE STEPS AND FOUNDATIONS
34. REMOVE CONCRETE GREASE TRAP AND CASTING FULL DEPTH. PROTECT EXISTING UPSTREAM AND DOWNSTREAM LINES FOR RECONNECTION TO NEW GREASE TRAP
44. PIP REPAIR - REFER TO DWG SREL1.40
48. REMOVE BUILDING AND CONCRETE PAD

Know what's below. Call before you dig.

Call 811 or 1-800-382-5544 Before You Begin Any Digging Project.
Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATION

900 WEST 136TH STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT

TLF

317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268

BID SET

PETE WLOMIR RANKOVICH
REGISTERED
No. 19700317
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: PMR

DRAWN BY: ARS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11.20.2025

REV. NO.△	DESCRIPTION	DATE
1	90% DD ESTIMATE SET	07-31-2025
2	100% DD ESTIMATE SET	08-21-2025
3	TAC SUBMITTAL	08-21-2025
4	CD QAQC SET	10-16-2025
5	100% CD SET	10-23-2025
6	BID SET	11-20-2025
7	TAC RESPONSE	12-9-2025
8	ADDENDUM #1	12-19-2025

DEMOLITION PLAN (SOUTH)

GD1.1

Drawing Path: P:\2025\000\2025-030\CAD\Civil\Active\3_2025-030_GD1.1_Demolition Plan.dwg
Plotted By: cstheiler Time of Plot: 12/19/25 - 11:45am Last Edited: 12/19/25 - 10:52am

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATION

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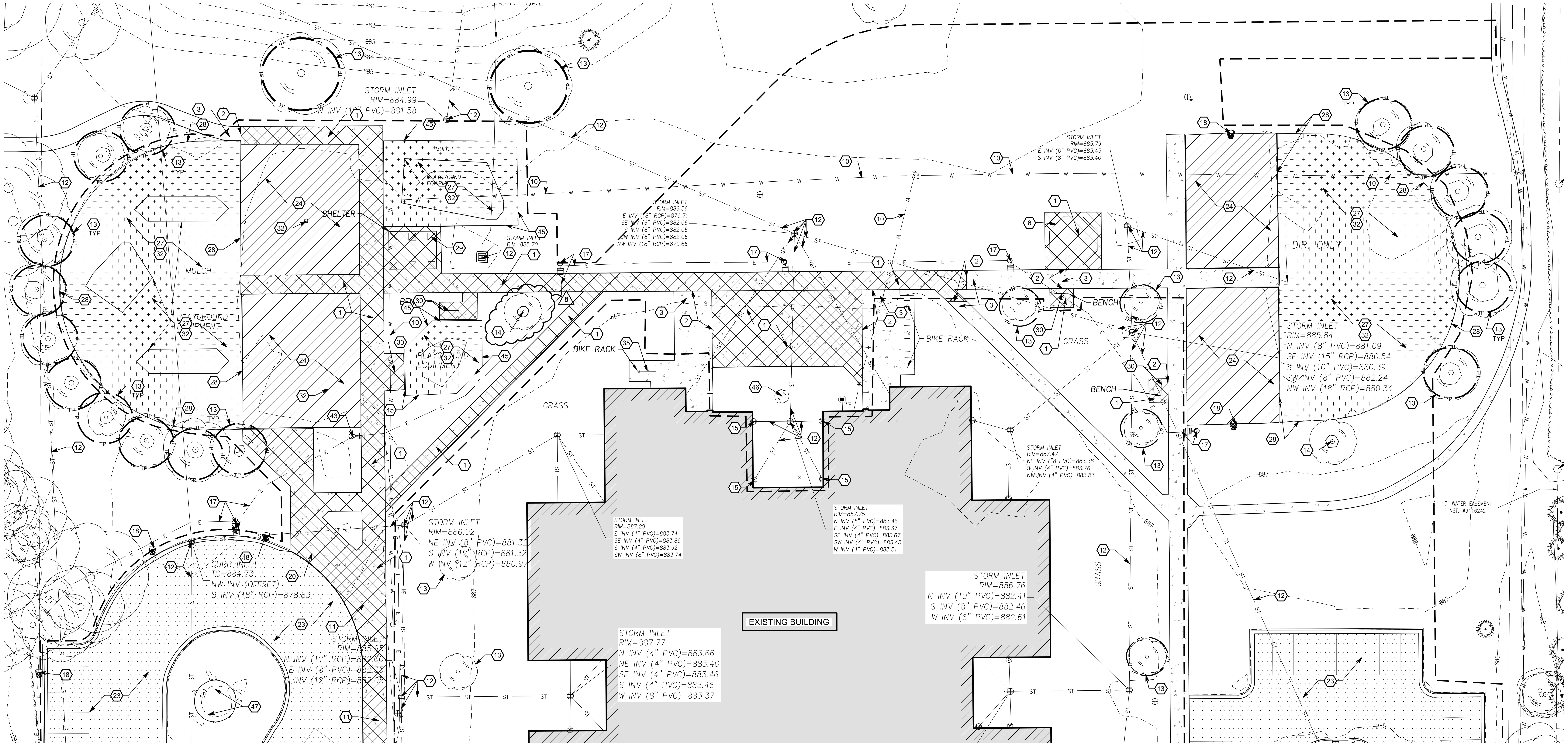
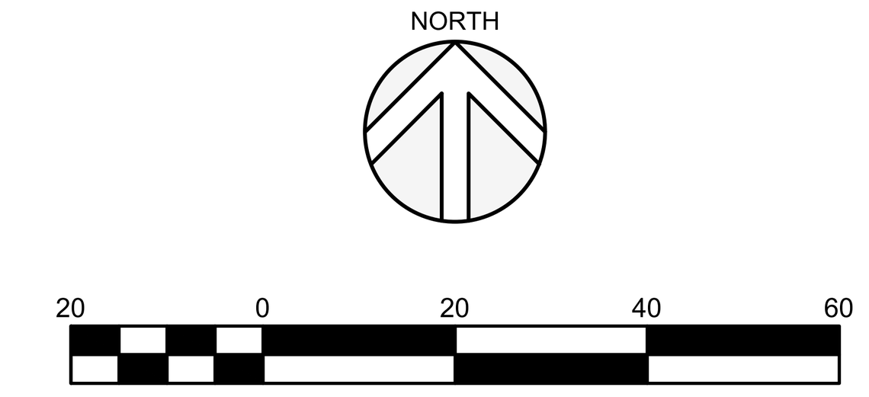
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



DEMOLITION PLAN (NORTH)
1" = 20'

NORTH



DEMOLITION LEGEND

- EXISTING BUILDING
- APPROXIMATE LIMITS OF CONCRETE REMOVAL
- APPROXIMATE LIMITS OF ASPHALT PAVEMENT REMOVAL
- APPROXIMATE LIMITS OF ASPHALT MILLING
- APPROXIMATE LIMITS OF PLAYGROUND MULCH REMOVAL
- EXISTING CONCRETE
- APPROXIMATE LIMITS OF UTILITY LINE REMOVAL
- TREE PROTECTION REQUIRED
- CONSTRUCTION LIMITS

*** SEE TOPOGRAPHIC SURVEY FOR ADDITIONAL LEGEND SYMBOLS.

DEMOLITION KEYNOTES

1. REMOVE CONCRETE SIDEWALK
2. SAWCUT EXISTING PAVEMENT
3. PROTECT CONCRETE TO REMAIN
6. REMOVE & REUSE GAGA PIT, SEE SITE PLAN FOR NEW LOCATION
10. PROTECT WATER LINE TO REMAIN
11. REMOVE MONOLITHIC CURB AND SIDEWALK
12. PROTECT STORM LINE AND STRUCTURE TO REMAIN
13. PROTECT EXISTING TREE TO REMAIN
14. REMOVE EXISTING TREE AS REQUIRED TO INSTALL IMPROVEMENTS
15. REMOVE DOWNSPOUT BOOT AND ASSOCIATED PIPING, REFER TO SITE UTILITY PLAN
17. PROJECT LIGHT POLE AND LINE TO REMAIN
18. BASKETBALL GOALS TO REMAIN - SEE DWG SREL1.30
20. REMOVE CONCRETE ADA RAMP
23. MILL ASPHALT SURFACE, SEE G1.0 OVERALL SITE PLAN FOR EXTENTS OF MILLING
24. REMOVE ASPHALT PAVEMENT - SEE DWGS SREL1.10 - SREL1.40
26. PROTECT LANDSCAPING TO REMAIN
27. REMOVE 8" PLAYGROUND MULCH, 8" OF STONE & UNDERDRAINS WITHIN PLAYGROUND AREA
28. PROTECT CURB/CONTAINMENT EDGING TO REMAIN
29. REMOVE SHELTER STRUCTURE AND FOUNDATIONS FULL DEPTH (SALVAGE SHELTER STRUCTURE - RETURN TO OWNER)
30. REMOVE BENCH, IF BENCH HAS A MEMORIAL PLAQUE, REMOVE PLAQUE AND GIVE TO OWNER FOR REUSE
32. REMOVE PLAYGROUND EQUIPMENT & FOUNDATIONS FULL DEPTH
35. REMOVE BIKE RACKS
43. REMOVE LIGHT POLE AND CONCRETE FOOTING, REFER TO ELECTRICAL PLANS
45. REMOVE CONCRETE CURB
46. RELOCATE TREE TO LOCATION SHOWN ON LANDSCAPE PLAN
47. REMOVE CONCRETE, ROCKET, STARS AND CONCRETE FOOTINGS

GENERAL NOTES

1. SEE DRAWING G0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY WEIHE ENGINEERS DATED 05/01/2025. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. SEE SHEET GD1.1, GD1.2 & GD1.3 FOR ADDITIONAL SITE DEMOLITION INFORMATION.
5. THE PROPOSED STORM SEWER SYSTEM FOR THIS PROJECT WILL BE PRIVATE OWNED.
6. FLOOD ROUTING PATH FROM BUILDING ADDITION AND PARKING LOT WHEN 100 YEAR FLOOD IS EXCEEDED DRAINS TO 136TH STREET.
7. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
8. UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE DEVELOPERS RESPONSIBILITY TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
9. DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.
10. ALL EXISTING PERIMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUESTED BY THE CITY TO ACCOMMODATE THE PAVEMENT WIDENING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
11. ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY.

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Drawing Path: P:\2025\000\2025-030\CAD\Civil\Active\3_2025-030_GD1.1_Demolition Plan.dwg
Plotted By: asheller Time of Plot: 12/19/25 - 11:45am Last Edited: 12/19/25 - 10:32am

BID SET

PETE MILOMIR RANKOVICH
REGISTERED No. 19700317
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: PMR
DRAWN BY: ARS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11.20.2025

REV. NO.△	DESCRIPTION	DATE
1	90% DD ESTIMATE SET	07-31-2025
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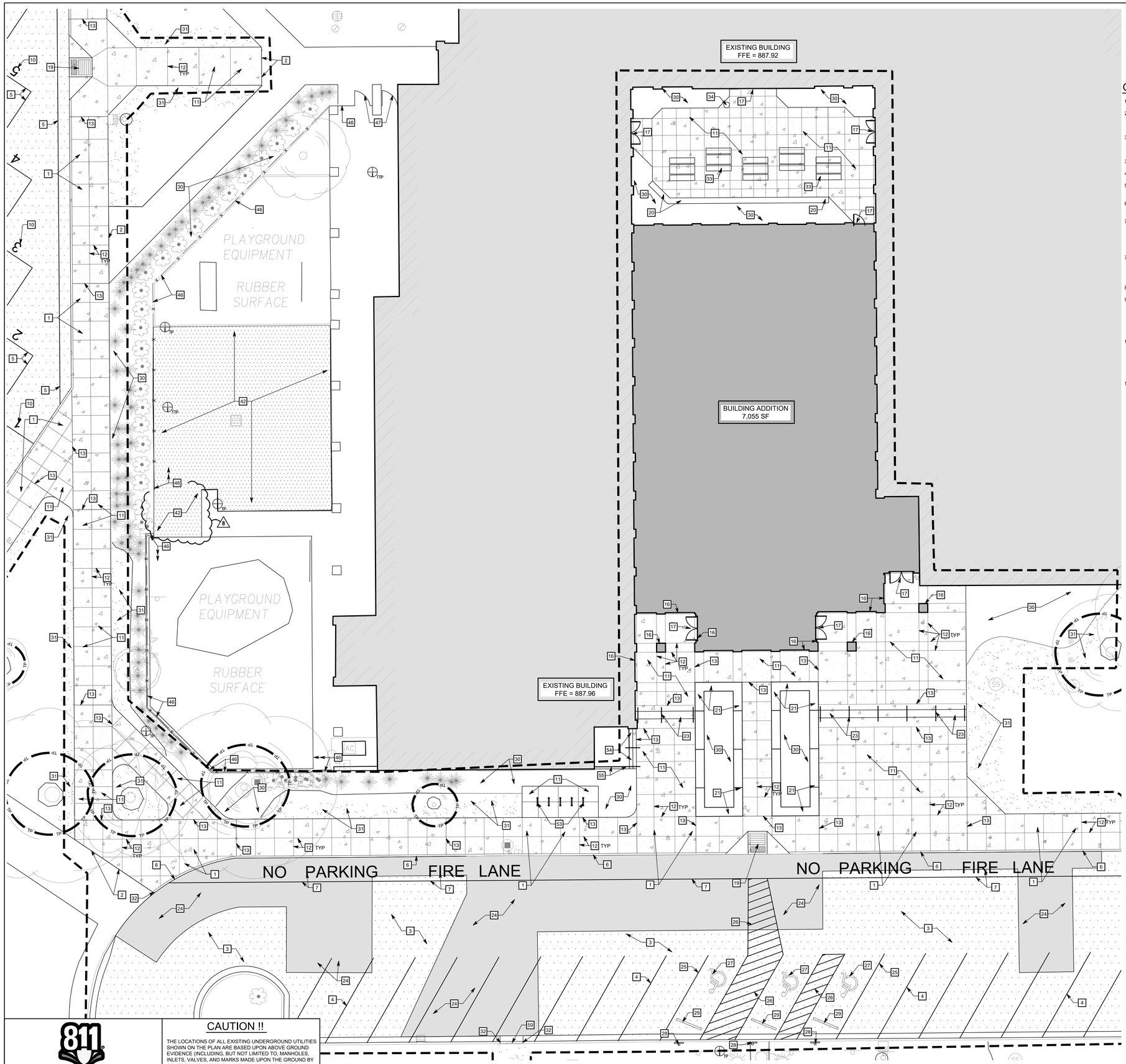
3	TAC SUBMITTAL	08-21-2025
4	CD QAQC SET	10-16-2025
5	100% CD SET	10-23-2025
6	BID SET	11-20-2025
7	TAC RESPONSE	12-9-2025
8	ADDENDUM #1	12-19-2025

DEMOLITION PLAN (NORTH)

GD1.2



SITE LAYOUT PLAN - SOUTH

1" = 10'

NORTH

10 0 10 20 40

GENERAL NOTES

1. SEE DRAWING G0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY WEIHE ENGINEERS DATED 05/01/2025. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
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4. THE PROPOSED STORM SEWER SYSTEM FOR THIS PROJECT WILL BE PRIVATE OWNED.
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8. REFER TO SHEET I/SU2.1 FOR DOWNSPOUT BOOT DETAIL REPLACEMENT.
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11. SEE DWG G1.4 (STRIPING AND SIGNAGE PLAN) FOR ALL PAVEMENT MARKING AND SIGNAGE REQUIREMENTS.

PROPOSED SITE LEGEND

- EXISTING BUILDING
- BUILDING ADDITION/PORTABLE TRAILER
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- 1 1/2" ASPHALT SURFACE OVERLAY
- LAWN
- CONSTRUCTION LIMITS
- TREE PROTECTION REQUIRED

SITE KEYNOTES

1	CONCRETE MONOLITHIC CURB & WALK - PER DETAIL B/G4.1
2	CONCRETE CONNECTION - PER DETAIL F/G4.1
3	1 1/2" ASPHALT SURFACE OVERLAY - PER DETAIL F/G4.2
4	4" WIDE WHITE PAVEMENT MARKING - PER SPECIFICATIONS
5	4" WIDE YELLOW PAVEMENT MARKING - PER SPECIFICATIONS
6	PAINT CURB YELLOW - PER SPECIFICATIONS
7	4" WIDE YELLOW PAVEMENT STRIPE W/ 3' HT. YELLOW NO PARKING FIRE LANE TEXT
10	PAINT 2' HT. YELLOW NUMBER AT THE BOTTOM AND TOP OF THE BUS PARKING SPACE AS SHOWN, NUMBER THE SPACES FROM SOUTH TO NORTH BEGINNING WITH 1
11	CONCRETE SIDEWALK - PER DETAIL A/G4.1
12	CONCRETE CONTROL JOINT - SEE DETAIL - PER DETAIL C/G4.1
13	CONCRETE EXPANSION JOINT - SEE DETAIL - PER DETAIL C/G4.1
16	ISOLATION JOINT - PER DETAIL L/G4.1
17	CONCRETE STOOP - SEE STRUCTURAL PLANS
19	CONCRETE ADA RAMP - PER DETAIL N/G4.1
20	SEATWALL TYPE 1 - PER DETAIL P/G4.1
21	SEATWALL TYPE 2 - REFER TO DETAILS 1 & 2/A5.10
23	CONCRETE STEPS WITH ALUMINUM LIGHTED HANDRAIL - PER DETAIL J/G4.3
24	ASPHALT PAVEMENT - PER DETAIL E/G4.2
25	4" WIDE BLUE PAVEMENT MARKING - PER SPECIFICATIONS
26	4" WIDE BLUE PAVEMENT STRIPE AT 3'-0" O.C. AT 45° ANGLE - PER DETAIL C/G4.2
27	WHITE ADA LOGO ON BLUE BACKGROUND - PER DETAIL B/G4.2
28	RELOCATED ADA ACCESSIBLE PARKING SIGN, IF ADDITIONAL ADA SIGNS ARE NEEDED MATCH DETAIL A/G4.2
29	PARKING BUMPER - PER DETAIL D/G4.2
30	LANDSCAPE BED - SEE TO LANDSCAPE PLAN
31	SEEDED DISTURBED LAWN - SEE LANDSCAPE PLAN
32	CURB TO CURB CONNECTION - PER DETAIL K/G4.1
33	PICNIC TABLE - SEE SPECIFICATION SECTION 129300
34	TRASH RECEPTACLE - SEE SPECIFICATION SECTION 129300
42	NEW ASPHALT PLAYGROUND SURFACE - SEE DWG SREL1.10, SREL1.30 & SREL1.40 FOR REQUIREMENTS
46	4' HT. BLACK VINYL COATED CHAIN LINK FENCE - SEE DWG SREL1.20 & SREL1.40 FOR REQUIREMENTS
47	4' WIDE BLACK VINYL COATED CHAIN LINK FENCE SWING GATE - SEE SREL1.20 & SREL1.40 FOR REQUIREMENTS
53	U SHAPED BIKE RACK - PER DETAIL O/G4.2
54	CONCRETE STEPS WITH ALUMINUM LIGHTED HANDRAIL - PER DETAIL H/G4.3
55	ALUMINUM LIGHTED HANDRAIL - REFER TO ELECTRICAL AND ARCHITECTURAL PLANS
59	CURB & GUTTER - PER DETAIL R/G4.1

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CARMEL, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY
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350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT

TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268

BID SET

PETE M. RANKOVIC — REGISTERED — No. 19700317 — STATE OF INDIANA — PROFESSIONAL ENGINEER

PROJECT MANAGER: PMR
DRAWN BY: ARS
PROJECT NUMBER: 222033.00
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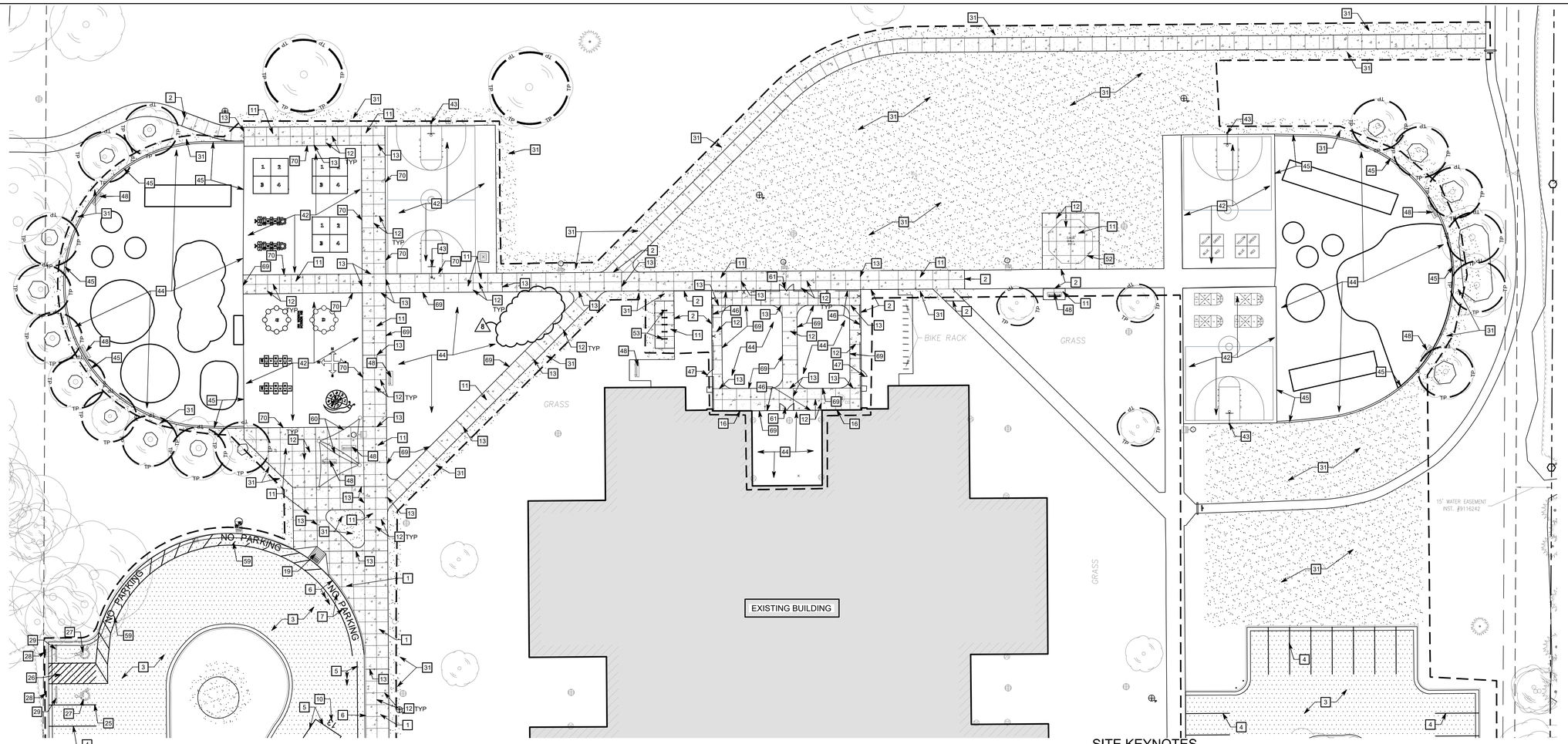
8	ADDENDUM #1	12-19-2025

SITE LAYOUT PLAN (SOUTH)

G1.1

Drawing Path: P:\2025\000\2025-0305\CAD\Civil\Active\5_2025-0305_G1-1_Site Plan.dwg
Plotted By: catheiser Time of Plot: 12/19/25 - 11:42am Last Edited: 12/19/25 - 11:01am



SITE LAYOUT PLAN - NORTH

1" = 20'

SITE KEYNOTES

1. CONCRETE MONOLITHIC CURB & WALK - PER DETAIL B/G4.1
2. CONCRETE CONNECTION - PER DETAIL F/G4.1
3. 1 1/2" ASPHALT SURFACE OVERLAY - PER DETAIL F/G4.2
4. 4" WIDE WHITE PAVEMENT MARKING - PER SPECIFICATIONS
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7. 4" WIDE YELLOW PAVEMENT STRIPE AT 3'-0" O.C. AT 45° ANGLE W/ NO PARKING TEXT - PER DETAIL C/G4.2
10. PAINT 2' HT. YELLOW NUMBER AT THE BOTTOM AND TOP OF THE BUS PARKING SPACE AS SHOWN, NUMBER THE SPACES FROM SOUTH TO NORTH BEGINNING WITH 1
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25. 4" WIDE BLUE PAVEMENT MARKING - PER SPECIFICATIONS
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29. PARKING BUMPER - PER DETAIL D/G4.2
31. SEEDED DISTURBED LAWN - SEE LANDSCAPE PLAN
32. CURB TO CURB CONNECTION - PER DETAIL K/G4.1
42. NEW ASPHALT PLAYGROUND SURFACE - SEE DWGS SREL1.10 - SREL1.30 FOR REQUIREMENTS
43. BASKETBALL GOAL - SEE DWG SREL1.10 & SREL1.30 FOR REQUIREMENTS
44. PROVIDE NEW PLAYGROUND SURFACE (POURED IN PLACE & TURF) - SEE DWGS SREL1.10 - SREL1.30 FOR REQUIREMENTS
45. CONCRETE BANDING/CURBING AROUND NEW SURFACE - SEE DWGS SREL1.10 & SREL1.30 FOR REQUIREMENTS
46. 4' HT. BLACK VINYL COATED CHAIN LINK FENCE - SEE DWG SREL1.20 & SREL1.40 FOR REQUIREMENTS
47. 4' WIDE BLACK VINYL COATED CHAIN LINK FENCE SWING GATE - SEE DWG SREL1.20 & SREL1.40 FOR REQUIREMENTS
48. BENCH - SEE DWG SREL1.10 - SREL1.30 FOR REQUIREMENTS
52. RELOCATED GAGA PIT
53. U SHAPED BIKE RACK - PER DETAIL O/G4.2
59. 4" WIDE BLUE PAVEMENT STRIPE AT 3'-0" O.C. AT 45° ANGLE W/ NO PARKING TEXT - PER DETAIL C/G4.2
60. SHADE STRUCTURE - REFER TO DWG SREL1.10
61. 6' WIDE BLACK VINYL COATED CHAIN LINK FENCE DOUBLE SWING GATE
69. THICKENED CONCRETE EDGE - PER DETAIL 7/L4.01
70. CONCRETE/ASPHALT CONNECTION - PER DETAIL G/G4.1

NORTH

20 0 20 40 60

PROPOSED SITE LEGEND

- EXISTING BUILDING
- BUILDING ADDITION/PORTABLE TRAILER
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- 1 1/2" ASPHALT SURFACE OVERLAY
- LAWN
- CONSTRUCTION LIMITS
- TREE PROTECTION REQUIRED (dl. / TP.)

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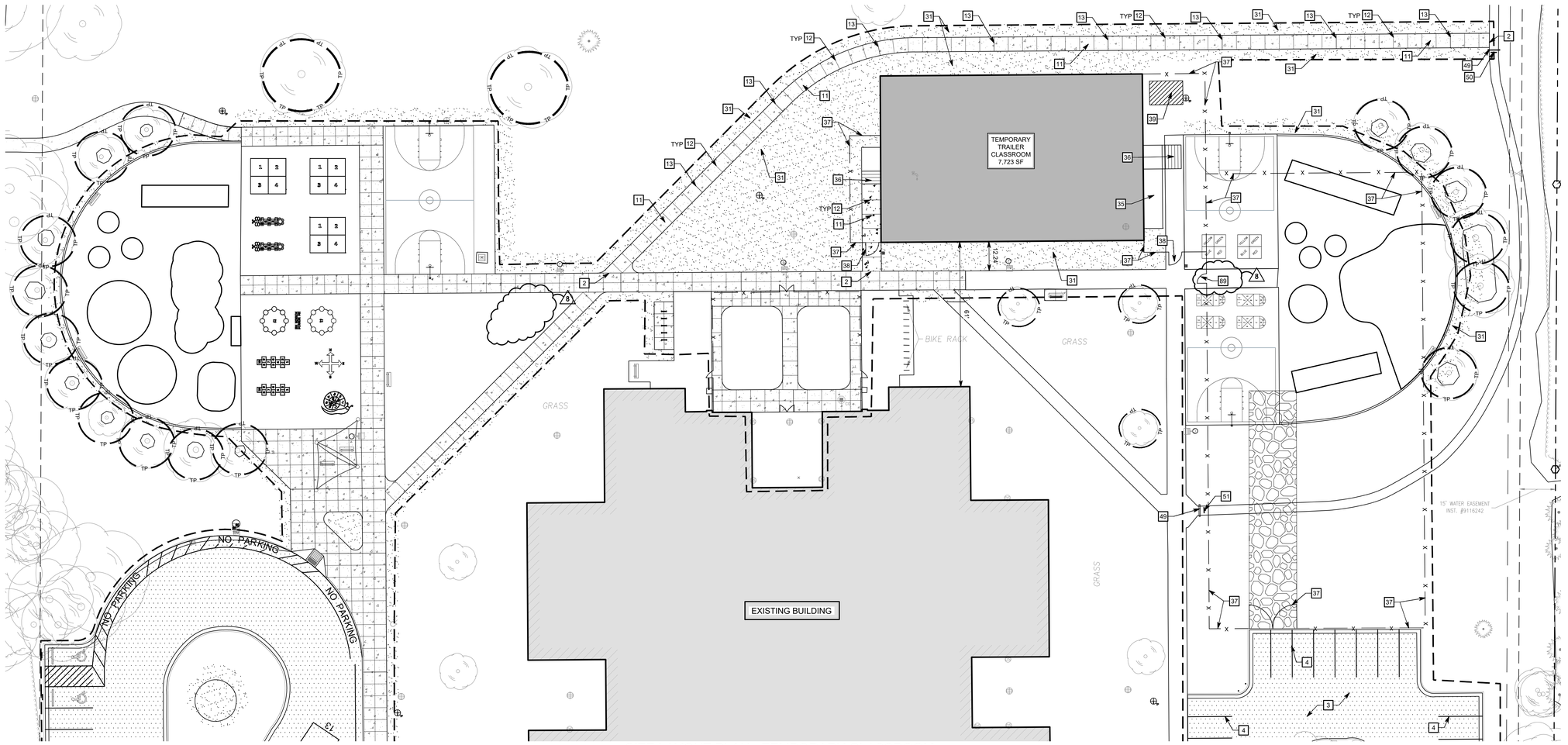
SITE LAYOUT PLAN (NORTH)

G1.2

Drawing Path: P:\2023\000\2023-030\Cad\Civil\Active\5_2025-030_G1.1_Site Plan.dwg
Plotted By: ostheller Time of Plot: 12/19/25 - 11:43am Last Edited: 12/19/25 - 11:01am



SITE LAYOUT PLAN - TEMPORARY CLASSROOM

1" = 20'

PROPOSED SITE LEGEND

- EXISTING BUILDING
- BUILDING ADDITION
- CONCRETE SIDEWALK/PAVEMENT
- GRAVEL DRIVE
- 1 1/2" ASPHALT SURFACE OVERLAY
- LAWN
- CONSTRUCTION LIMITS

20 0 20 40 60

SITE KEYNOTES

- 2 CONCRETE CONNECTION - PER DETAIL F/G4.1
- 3 1 1/2" ASPHALT SURFACE OVERLAY - PER DETAIL F/G4.2
- 4 4" WIDE WHITE PAVEMENT MARKING - PER SPECIFICATIONS
- 11 CONCRETE SIDEWALK - PER DETAIL A/G4.1
- 12 CONCRETE CONTROL JOINT - SEE DETAIL - PER DETAIL C/G4.1
- 13 CONCRETE EXPANSION JOINT - SEE DETAIL - PER DETAIL C/G4.1
- 31 SEEDED DISTURBED LAWN - SEE LANDSCAPE PLAN
- 35 RAMP SYSTEM WITH HANDRAIL MAXIMUM RAMP SLOPE SHALL BE 8.33%, MAXIMUM RAMP LENGTH 30', CONTRACTOR TO PROVIDE FOUNDATIONS AND SUPPORTS FOR RAMP SYSTEM
- 36 STAIR WITH HANDRAIL, CONTRACTOR TO PROVIDE FOUNDATIONS AND SUPPORTS FOR STAIRS
- 37 7' HT. CONSTRUCTION FENCE W/ FENCE SCREEN & 20' WIDE SWING GATE (8)
- 38 4'-0" SWING GATE, FENCE FABRIC AND HEIGHT TO MATCH ADJACENT FENCE. PROVIDE AND INSTALL 1/4" STEEL PLATE, 3" TALL BY 4' WIDE PAINTED BLACK AND ATTACHED TO GATE TO MOUNT EXTERIOR PANIC BAR. PROVIDE DETEX EXTERIOR PANIC BAR WITH LOCAL ALARM AND LOCKING HARDWARE
- 39 SANITARY WASTE HDPE HOLDING TANK (1000 GALLONS) PROVIDE 12" DEEP X 10'-0" X 12'-0" STONE FOUNDATION PAD - SEE DETAIL A/G4.3
- 40 GRAVEL DRIVE - SEE EROSION CONTROL PLAN
- 49 TEMPORARY BARRIER RAILING
- 50 "SIDEWALK CLOSED" SIGN, "DETOUR RIGHT" SIGN
- 51 "SIDEWALK CLOSED" SIGN, "DETOUR LEFT" SIGN
- 89 4'-0" SWING GATE, FENCE FABRIC AND HEIGHT TO MATCH ADJACENT FENCE. PROVIDE LOCKING HARDWARE AND LATCHES AS REQUIRED BY CONTRACTOR FOR THEIR USE. (8)

GENERAL NOTES

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3. SEE SHEET G1.1, G1.2 & G1.3 FOR ADDITIONAL SITE PLAN INFORMATION.
4. THE PROPOSED STORM SEWER SYSTEM FOR THIS PROJECT WILL BE PRIVATE OWNED.
5. FLOOD ROUTING PATH FROM BUILDING ADDITION AND PARKING LOT WHEN 100 YEAR FLOOD IS EXCEEDED DRAINS TO 136TH STREET.
6. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
7. UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE DEVELOPERS RESPONSIBILITY TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
7. DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.
8. REFER TO SHEET I/SU2.1 FOR DOWNSPOUT BOOT DETAIL REPLACEMENT.
9. ALL EXISTING PERIMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUESTED BY THE CITY TO ACCOMMODATE THE PAVEMENT WIDENING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
10. ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY.
11. SEE DWG G1.4 (STRIPING AND SIGNAGE PLAN) FOR ALL PAVEMENT MARKING AND SIGNAGE REQUIREMENTS.

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SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATION

900 WEST 136TH STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268

BID SET

PETE MILOMIR RANKOVICH REGISTERED No. 19700317 STATE OF INDIANA PROFESSIONAL ENGINEER

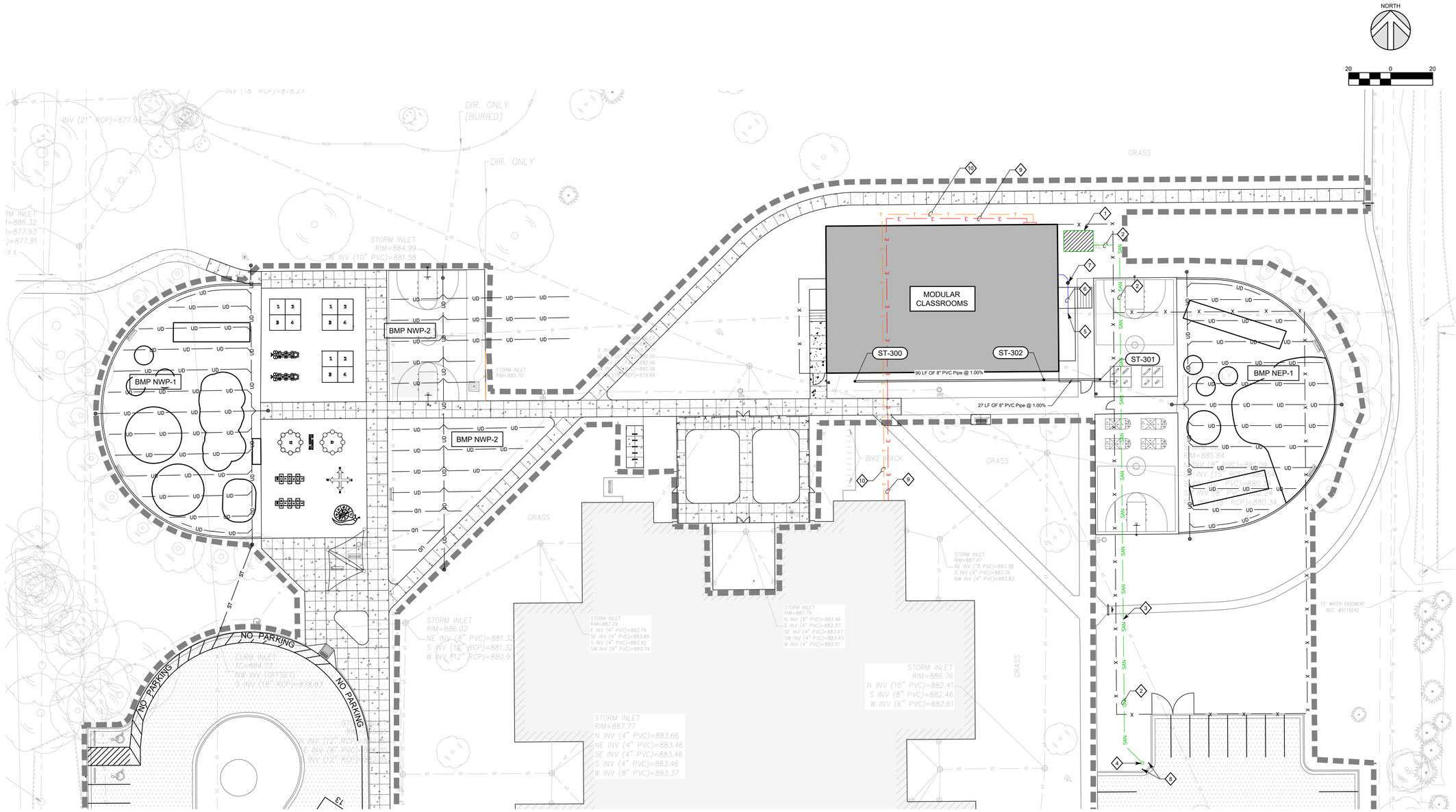
PROJECT MANAGER: PMR
DRAWN BY: ARS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11.20.2025

REV. NO△	DESCRIPTION	DATE
1	90% DD ESTIMATE SET	07-31-2025
2	100% DD ESTIMATE SET	08-21-2025
3	TAC SUBMITTAL	08-21-2025
4	CD QAQC SET	10-16-2025
5	100% CD SET	10-23-2025
6	BID SET	11-20-2025
7	TAC RESPONSE	12-9-2025
8	ADDENDUM #1	12-19-2025

SITE LAYOUT PLAN (TEMPORARY CLASSROOM)

G1.3

Drawing Path: P:\2025\000\2025-030\CAD\Civil\Active\5_2025-030_G1.1_Site Plan.dwg
Plotted By: ostheier Time of Plot: 12/19/25 - 11:44am Last Edited: 12/19/25 - 11:01am



SITE UTILITY PLAN - TEMPORARY CLASSROOMS

1" = 20'

UTILITY KEYNOTES

1. SANITARY BLADDER ENCLOSURE, PER DETAIL D/SU4.3 7
2. 3" DIA. SANITARY DISCHARGE PIPE AT T/PIPE ELEV. = 883.00'±
3. EXISTING 15" STORM PIPE AT -3.5' DEPTH. VERIFY LOCATION AND DEPTH.
4. TEMPORARY SANITARY WASTE VACUUM NOZZLE PEDESTAL, PER DETAIL G/G4.3 SIMILAR
5. TAP EXISTING 6" WATER LINE FOR NEW DOMESTIC WATER (FIELD VERIFY SIZE, LOCATION AND DEPTH)
6. DOMESTIC WATER LINE
7. NEW DOMESTIC WATER LINE METER PIT
8. 6" DIA. BOLLARDS, PER DETAIL J/G4.2
9. ELECTRICAL / POWER FEED - SEE ELECTRICAL SITE PLAN
10. TELECOMMUNICATIONS FEED - SEE ELECTRICAL SITE PLAN

GENERAL NOTES

1. SEE DRAWING G0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY WEIHE ENGINEERS DATED 05/01/2025. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. CONTRACTOR SHALL RETAIN THE SERVICES OF A UTILITY LOCATE COMPANY TO LOCATE BOTH PUBLIC AND PRIVATE UTILITIES PRIOR TO CONSTRUCTION.
5. THE PROPOSED STORM SEWER SYSTEM FOR THIS PROJECT WILL BE PRIVATE OWNED.
6. FLOOD ROUTING PATH FROM BUILDING ADDITION AND PARKING LOT WHEN 100 YEAR FLOOD IS EXCEEDED. PATH TRAVELS IN A SOUTHERLY DIRECTION TO EXISTING INLETS LOCATED THE NORTH SIDE OF 136TH STREET . THESE INLETS FLOW TO HENLEY CREEK, ULTIMATELY DISCHARGING TO THE WILLIAMS CREEK.
7. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
8. UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE DEVELOPERS RESPONSIBILITY TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
9. DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY. SEE SHEET G0.1 FOR ADDITIONAL INFORMATION ON THE CITY OF CARMEL'S PAVING AND CURB POLICIES.
10. SEE STORM STRUCTURE TABLE ON CIVIL SHEET SU1.2 FOR PIPE SIZES, MATERIAL AND INVERTS OF STORM SEWERS.
11. ALL EXISTING PERIMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUEST BY THE CITY OT ACCOMMODATE THE PAVEMENT WIDENING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAIANGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
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UTILITY LEGEND

- PROPOSED BUILDING ADDITION
- EXISTING BUILDING
- ST — EXISTING STORM SEWER
- S — EXISTING SANITARY SEWER
- W — EXISTING WATER LINE
- E — EXISTING ELECTRIC LINE
- ST — PROPOSED STORM SEWER
- UD — PROPOSED UNDERDRAIN
- PROPOSED STORM MANHOLE
- PROPOSED NYLOPLAST STRUCTURE
- PROPOSED STORM / SANITARY CLEANOUT
- SAN — PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE

SEE SURVEY SHEET FOR ADDITIONAL LEGEND INFORMATION

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BID SET

PETE MICHAEL RONKOWSKI
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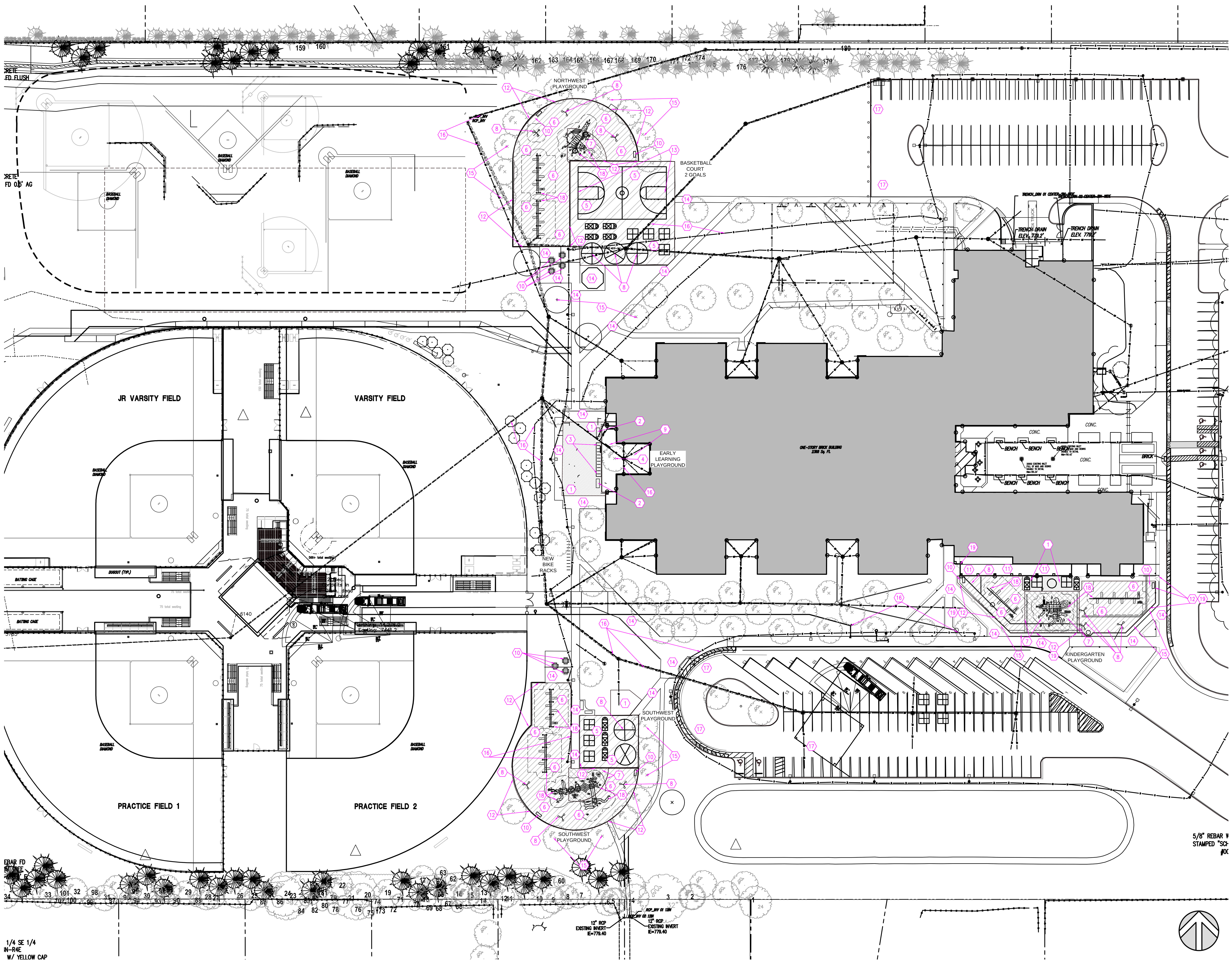
SITE UTILITY PLAN (TEMPORARY CLASSROOMS)

SU1.3

Drawing Path: P:_2023\000\2025-030\Cad\Active\13_2025-030_SU1.1 - SU1.2_Site Utility Plans.dwg
Plotted By: ostheller Time of Plot: 12/19/25 - 11:49am Last Edited: 12/19/25 - 11:48am



OVERALL SITE DEMOLITION PLAN-CTE

SCALE: 1" = 40'-0"

⓪ SITE DEMOLITION KEYNOTES

1. EXISTING CONCRETE PAVING TO REMAIN - PROTECT DURING CONSTRUCTION. EX. GAGA PIT TO BE RELOCATED AND SECUTRED TO NEW CONC. PAVING PER MANUF. WRITTEN RECOMMENDATIONS - SEE CTE-L1.3 FOR FURTHER INFORMATION - CONTRACTOR IS TO COORDINATE SAFE STORAGE OF EX. GAGA PIT ON SITE WITH CM PRIOR TO THE START OF CONSTRUCTION.
2. REMOVE EXISTING BENCHES IN THEIR ENTIRETY INCLUDING FOUNDATIONS AND DISPOSE OF OFFSITE.
3. REMOVE EXISTING BIKE RACKS IN THEIR ENTIRETY INCLUDING FOUNDATIONS AND DISPOSE OF OFFSITE.
4. REMOVE EXISTING TREE IN ITS ENTIRETY INCLUDING COMPLETE ROOTBALL AND DISPOSE OF OFFSITE. BE MINDFUL OF EX. UTILITIES AROUND EX. TREE ROOTBALL - REFER TO CIVIL PLANS FOR SITE UTILITIES
5. MILL EXISTING ASPHALT SURFACE AND INTERMEDIATE COURSES AS INDICATED BY DOUBLE CROSSHATCHING TO TOP OF EXISTING COMPACTED AGGREGATE BASE AND DISPOSE OF OFFSITE AS APPROVED BY GOVERNING AGENCIES. PROTECT EXISTING STONE BASE AND SUPPLEMENT WITH ADDITIONAL STONE AS REQUIRED TO PROVIDE 6" COMPACTED CRUSHED STONE AGGREGATE BASE. INSTALL NEW 3" INTERMEDIATE BASE ASPHALT COURSE AND 2" SURFACE COURSE OVER GRADED AND COMPACTED STONE BASE TO PROVIDE POSITIVE SURFACE DRAINAGE AND MEET EXISTING ADJACENT SURFACES FLUSH.
6. REMOVE EXISTING WOOD SAFETY SURFACE IN ITS ENTIRETY IN HATCHED AREAS AS INDICATED AND DISPOSE OF OFFSITE. PROTECT AND REPAIR EXISTING DRAINAGE SYSTEM AND OUTLET, REGRADE SUBGRADE TO DRAIN AND INSTALL FILTER FABRIC AND FLATPIPE UNDERDRAIN SYSTEM AND TIE INTO EXISTING UNDERDRAIN OUTLET. INSTALL AND COMPACT ADDITIONAL STONE DRAINAGE BASE AS REQUIRED TO PROVIDE POSITIVE SURFACE DRAINAGE OF POURED IN PLACE AND SYNTHETIC TURF SURFACES.
7. REMOVE RUBBER TILE SAFETY SURFACE AND UNDERLYING CONCRETE PAVING BASE AND DISPOSE OF OFFSITE AS APPROVED BY GOVERNING AGENCIES.
8. REMOVE EXISTING FREESTANDING PLAYGROUND PIECES IN THEIR ENTIRETY INCLUDING FOUNDATIONS AND DISPOSE OF OFFSITE. REMOVE ALL PIECES SHOWN NOT TO REMAIN IN NEW IMROVEMENTS.
9. REMOVE EXISTING TURF, PLANTINGS AND DISPOSE OF OFF SITE. REMOVE EXISTING TOPSOIL AND SUBSOIL TO REQUIRED SUBGRADE . GRADE SUBGRADE TO DRAIN AND INSTALL UNDERDRAIN AND TIE INTO NEAREST DRAIN STRUCTURE. INSTALL 6" MIN. INSTALL COMPACTED GRAVEL DRAINAGE AGGREGATE THAT WILL PROVIDE FINAL FINISH SURFACES THAT HAVE POSITIVE DRAINAGE.
10. REMOVE EXISTING WOOD TABLE TOPS AND SEAT BOARDS AND DISPOSE OF OFFSITE. INSTALL NEW POLY BOARDS WITH WOOD GRAIN IN COLOR AS SELECTED BY ARCHITECT. REPAINT EXISTING TABLE AND SEAT FRAMES PRIOR TO POLY BOARD INSTALLATION.
11. GRIND DOWN UNEVEN AREAS ALONG CRACKED CONCRETE SURFACES PRIOR TO INSTALLATION OF SELF LEVELING URETHANE CRACK SEALER. SEAL CONCRETE PAVEMENT FOLLOWING INSTALLATION OF CRACK SEALANT.
12. PROTECT AND REPAIR DAMAGED CONCRETE CURBING.
13. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP.
14. EXISTING CONCRETE TO REMAIN. PROTECT DURING CONSTRUCTION AND REPAIR ANY CONSTRUCTION DAMAGE.
15. ALL EXISTING LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE. PROTECT DURING CONSTRUCTION TYP.
16. EXISTING SITE UTILITIES. PROTECT DURING CONSTRUCTION.
17. EXISTING ASPHALT TO REMAIN. PROTECT DURING CONSTRUCTION AND REPAIR ANY DAMAGE.
18. EX. PLAYGROUND STRUCTURES TO REMAIN - PROTECT DURING CONSTRUCTION TYP : NOTED EX. PLAY EQUIPMENT IS TO REMAIN; EXCEPT ACCESSORY PLAY EQUIPMENT NOTED; ROPE CLIMBER AND ROPE ELEMENTS, ARE TO BE REPLACED FULLY WITH NEW. ALL EX. EQUIPMENT TO REMAIN ARE TO HAVE ALL HARDWARE AND ACCESSORIES PIECES NOT NOTED ABOVE WHICH ARE FOUND TO BE MISSING, LOOSE, BROKEN AND OR RUSTED ARE TO BE REPLACED WITH NEW, NEW PLAYGROUND SIGNS / WARNING LABELS ARE TO BE RE-ESTABLISHED ON THE EX. PLAY STRUCTURES PRIOR TO COMPLETION OF CONSTRUCTION. ALL EQUIPMENT IS TO BE EVALUATED PRIOR TO BIDDING AND START OF CONSTRUCTION.
19. EXISTING FENCING: EX. FENCE POST AND CURBING AND GATE TO REMAIN - DEMO EX. CHAIN LINK FABRIC, HARDWARE AND GATES IN THEIR ENTIRETY - DISPOSE OF ALL WASTE MATERIALS LEGALLY OFF SITE. SLEEVE EX. FENCE POST (PVC COATED) BLACK TO MATCH EX. FENCING PRIOR TO INSTALLING NEW CHAIN-LINK FENCE FABRIC, NEW HARDWARE/ ACCESSORIES AND GATES - SEE LAYOUT NOTE FOR FURTHER INFORMATION

GENERAL LAYOUT NOTES

1. ALL CONTRACTORS BUT NOT LIMITED TO THE EXCAVATING CONTRACTOR OR CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTATIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS OR UTILITY COMPANIES OR AGENCIES WHOMEVER HAS JURISDICTION SO NOT TO CAUSE DAMAGE.
2. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, OIL, GASOLINE, ETC., BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS, SHALL BE RECONSTRUCTED TO IT'S ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. THIS RECONSTRUCTION AND REPAIR SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BEAR ALL EXPENSES TO REMOVE, RELOCATE AND OR MODIFY ALL UTILITIES, PRIVATE, PUBLIC, UNLESS NOTED OTHERWISE ON PLANS. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT TO WHO IS RESPONSIBLE TO REMOVE, RELOCATE AND OR MODIFY SUCH UTILITIES EXISTING OR PROPOSED. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IF ANY FUTURE UTILITIES ARE PLANNED AND HOW IT MAY EFFECT THIS PROJECT AND ITS OWNER AS TO THEIR RESPONSIBILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS INCLUDES THE SUBMITTAL FOR LAND DISTURBANCE AND THE SUBMITTAL FOR SOIL EROSION AND SEDIMENT CONTROL IF REQUIRED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 800-382-5544 BEFORE DIGGING.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAY, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.
10. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND / OR ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS.
11. ALL LISTED SQ. FT TOTALS ARE ESTIMATES AND NOT FINAL – GIVEN TOTALS SHOULD BE CONFIRMED ON SITE PRIOR TO BIDDING AND START OF CONSTRUCTION

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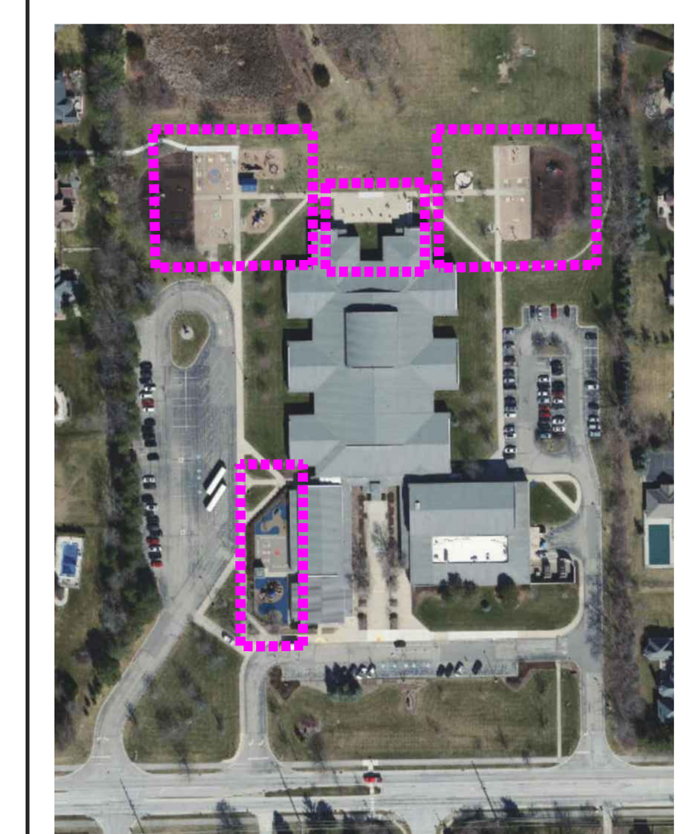
LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

CHERRY TREE ELEMENTARY SCHOOL PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: JB, EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11- 20- 2025

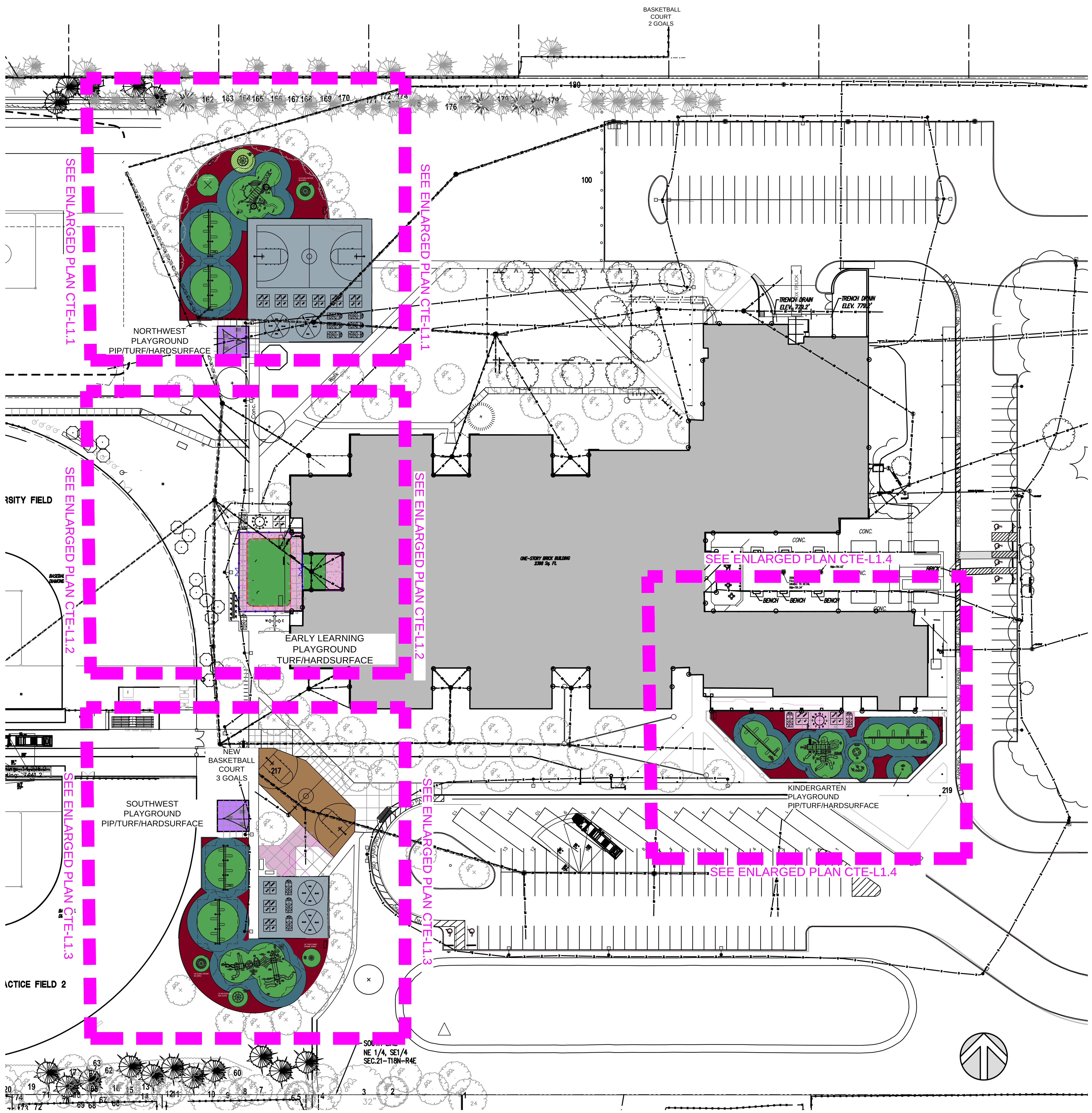
REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

OVERALL SITE DEMOLITION PLAN-CTE

CTE-GD1.0

Drawing Path: J:\222033.00\Production\Site\CD\CTE\Xrefs\BASE – Addendum 1.dwg
Plotted By: ebrown Time of Plot: 12/17/25 – 3:35pm Last Edited: 12/17/25 – 10:39am

CHERRY TREE ELEMENTARY SCHOOL PLAYGROUND RENOVATION



PROPOSED SITE LEGEND

- NEW ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW CONC. PAVING AT SHELTER
- NEW BASKETBALL COURT

OVERALL PLAYGROUND SITE LAYOUT PLAN - CTE

SCALE: 1" =40'-0"

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Know what's below. Call before you dig.
Call 811 or 1-800-382-5544 Before You Begin Any Digging Project.
Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

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LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

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FANNING HOWEY
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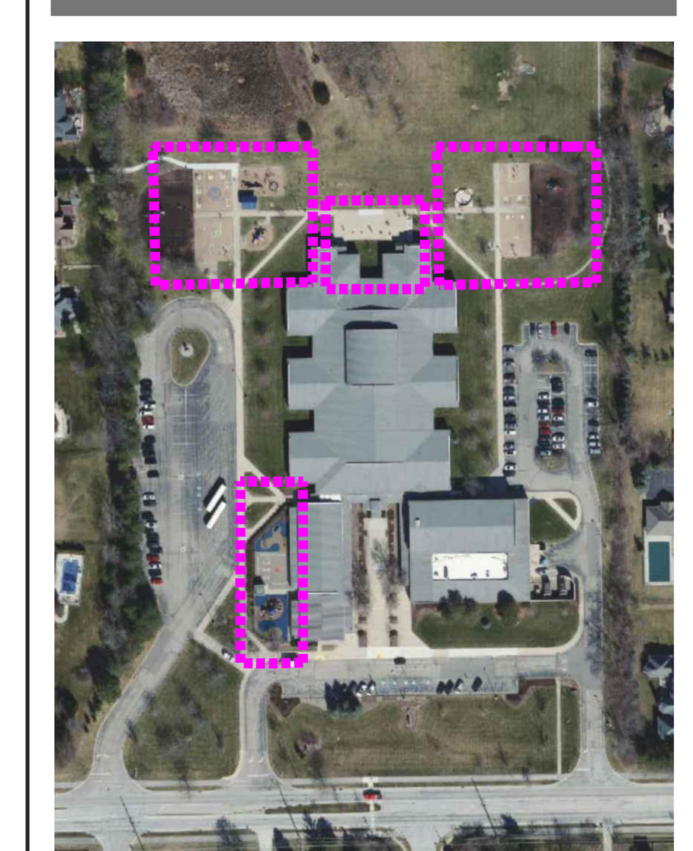
CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: JB, EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11- 20- 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

OVERALL PLAYGROUND SITE LAYOUT PLAN - CTE

CTE-L1.0

ENLARGED NW PLAYGROUND SITE LAYOUT PLAN - CTE

SCALE: 1" =20'-0"

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PROPOSED SITE LEGEND

- NEW ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW CONC. PAVING AT SHELTER
- NEW BASKETBALL COURT

SITE LAYOUT KEYNOTES

1. EXISTING CONCRETE PAVING TO REMAIN - PROTECT DURING CONSTRUCTION TYP
2. ALL EX. SITE LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE - PROTECT DURING CONSTRUCTION TYP
3. EX. SITE LIGHTING TO BE REMOVED IN NOTED LOCATIONS - PROVIDE NEW LIGHT POLES BASES, POLE AND HEAD WHERE NOTED ON ELECTRICAL DRAWINGS
4. EX. PRE-K PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 2 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - EX. SOUTH SLIDE GATE TO REMAIN (REPAINT TO LOOK LIKE NEW) , PROTECT DURING CONSTRUCTION
5. FOLLOWING EXISTING ASPHALT REMOVAL. REGRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. SEE DETAILS 9,10,11,16 CTE-L4.01 AND CIVIL DETAILS.
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 CTE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR KIDS TYP. SEE DETAIL 17 CTE-L4.01.
8. KINDERFGARTEN HARD PAVEMENT GAME AREA : POUR NEW 4" THICK REINFORCED CONCRETE PAVING ON EXISTING AGGREGATE BASE COURSE. PROVIDE NEW PAVEMENT GAMES WITHIN AREA MATCHING EXISTING FOUND ON SITE - SITE VERIFY EX. CONDITIONS AND DOCUMENT LAYOUTS PRIOR TO BIDDING AND START OF CONSTRUCTION. SEE DETAIL 4,5,6 CTE-L4.01 AND CIVIL DETAILS.

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9. EXISTING PLAYGROUND STRUCTURES TO REMAIN EXCEPT THE ACCESSORY PLAY EQUIPMENT NOTED ARE TO BE REMOVED AND OR REPLACED WITH NEW, ROPE CLIMBERS, ALL ROPE ELEMENTS TO BE REPLACED FULLY, CONICAL CLIMBERS WITHIN ALL LOCATIONS ARE TO BE FULLY REMOVED - SEE LAYOUT PLANS FOR PROPOSED PLAY EQUIPMENT WITHIN THE NOTED LOCATIONS FOR REMOVAL.
10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 CTE-L4.01 AND CIVIL DETAILS.
11. INSTALL NEW SYNTHETIC TURF SYNPRO 65 OR APPROVED EQUAL WITH THATCH LAYER AND INFILL SYSTEM ON AGGREGATE OR BUFFING BASE COURSE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE AND TIE INTO EXISTING UNDERDRAIN OUTLET. INSTALL TURF IN COLOR AS SELECTED BY ARCHITECT (MEDIUM GREEN). SEE DETAIL 2 CTE-L4.01 AND CIVIL DETAILS.

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12. INSTALL NEW 4' HIGH CHAIN-LINK FENCING WITH (2) DOUBLE WIDE MAN GATES IN EARLY LEARNING CENTER IN LOCATIONS SHOWN. SEE DETAILS 12,13,14,15 CTE-L4.01 AND CIVIL DETAILS.
13. RELOCATED GAGA PIT: SECURE EX. GAGA PIT TO NEW CONC. PAD PER MANUF. WRITTEN RECOMMENDATIONS
14. CONCRETE STOOP - SEE ARCHITECTURAL SHEETS FOR FURTHER INFORMATION
15. NEW BENCH SEATING : DEMO EX. BENCHES - PROVIDE NEW BENCHES MATCHING CCS STANDARDS - SECURE NEW BENCH TO NEW 4" THICK REINFORCED CONC. BASE OVER 6" COMPACTED 1" DIA. AGGREGATE PER MANUFACTURERS RECOMMENDATIONS. EX. CONC. PAVING TO REMAIN - PROTECT DURING CONSTRUCTION. SEE DETAIL 8 CTE-L4.00.
16. NEW ASPHALT PAVING: INSTALL NEW COMPACTED AGGREGATE SUB-BASE , INTERMEDIATE ASPHALTIC BASE WITH SURFACE COURSE - PROVIDE POSITIVE SURFACE DRAINAGE TO EX. STORM DRAINS TYP. NO RAP AGGREGATE TO BE USED IN SURFACE ASPHALT LAYER. SEE DETAILS 9,10,11,16 CTE-L4.01 AND CIVIL DETAILS.
17. RENOVATED TABLES AND BENCHES: REMOVE EXISTING WOOD TABLE TOPS AND SEAT BOARDS FROM EXIST. TABLES (7) AND BENCHES. THOROUGHLY CLEAN AND REPAINT EXISTING TABLE AND BENCH FRAMING AND INSTALL NEW 2" THICK POLY STYLE PLANKS (WOOD TEXTURE) TO EX. METAL FRAMING. SECURE PER. MANUF. WRITTEN INSTRUCTIONS TYP
18. NEW 20' SHADE CANOPIES (2) BY LANDSCAPE STRUCTURES - BASIS OF DESIGN SEE PROJECT MANUAL FOR APPROVED MANUFACTURES - NO OTHER MANUF. WILL BE CONSIDERED TYP. INSTALL PER MANUF. WRITTEN RECOMMENDATION. PROVIDE FOOTINGS PER MANUF. LOCAL AND STATE GUIDELINES, EXISTING CONCRETE PAVING WITHIN HIGHLIGHTED (PURPLE) SPACE IS TO BE FULLY REPLACED - PROVIDE NEW FOOTINGS FOR SHADE STRUCTURE PER LOCAL CODES AND PER MANUF. WRITTEN RECOMMENDATIONS - CONTRACTOR IS TO OBTAIN STAMPED DRAWINGS FROM MANUF. FOR ALL CANOPY STRUCTURES AND FOOTING PRIOR TO THE START OF CONSTRUCTION TYP.
19. EX. CONC. CRACK REPAIR: GRIND DOWN UNEVEN AREAS ALONG CRACKED CONC. SURFACE PRIOR TO INSTALLING SELF LEVELING POLYURETHANE CRACK FILLER - SEAL PAVEMENT SURFACES AFTER CRACK FILLING.
20. BASKETBALL MARKINGS SHALL MEET NFHS STANDARD DIMENSIONS .SEE DETAIL 6 CTE-L4.00
21. PAINT GAME MARKINGS ON EXISTING CONCRETE PAVING. SEE DETAILS 1,4,5 CTE-L4.00 AND 18,19,20 CTE-L4.01
22. INSTALL LANDSCAPE STRUCTURES / PLAYWORLD (ELC PLAYGROUND) FREESTANDING PLAY EQUIPMENT IN LOCATIONS NOTED ON PLAN.
23. PAINT TOT TRACK ON NEW CONCRETE PAVING. SEE DETAIL 7 CTE-L4.00
24. INSTALL TETHER BALL COURT MARKINGS AND EQUIPMENT IN LOCATIONS NOTED. SEE DETAIL 3 CTE-L4.00
25. INSTALL 4" MIN. TOPSOIL, FINE GRADE, SEED AND HYDROMULCH AREAS DISTURBED BY CONSTRUCTION..
26. POUR REINFORCED CONCRETE SLAB IN SHADED AREAS AS NOTED OVER 6" COMPACTED CRUSHED 1" DIA. AGGREGATE. ACCEPTABLE 'POLY' FIBER MAY BE USED IN LIEU OF WIRE MESH REINFORCEMENT. SEE DETAILS 4,5,6 CTE-L4.01 AND CIVIL DETAILS.
27. POUR THICKENED CONCRETE EDGE FOR NAILER BOARD ATTACHMENT FOR NEW SYNTHETIC TURF INSTALLATION. SEE DETAIL 7 CTE-L4.01 AND CIVIL DETAILS.
28. BOLT 2X4" COMPOSITE NAILER BOARD FOR SYNTHETIC TURF INSTALLATION TO EXISTING BUILDING FOUNDATION. GRIND AND SMOOTH ANY IMPERFECTIONS FROM FOUNDATION TO ALLOW NAILER BOARD INSTALLATION.
29. EXISTING TO NEW CONCRETE TRANSITION. SEE DETAIL 21 CTE-L4.01 AND CIVIL DETAILS
30. PROTECT EXISTING CURB AND REPAIR ANY CONSTRUCTION DAMAGE.

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31. NEW NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH.AND COMPACTED SUB-BASE. PROVIDE NEW CONTROL AND EXPANSION JOINT LAYOUT MATCHING EX. CONC. PAVING TO REMAIN ADJACENT TO NEW PAD - SITE VERIFY EX. CONDITIONS AND DOCUMENT LAYOUTS PRIOR TO BIDDING AND START OF CONSTRUCTION. SEE DETAIL 4,5,6 CTE-L4.01 AND CIVIL DETAILS FOR FURTHER INFORMATION.

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CHERRY TREE ELEMENTARY SCHOOL PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

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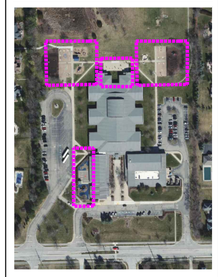

BID SET

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PROJECT MANAGER: KS
DRAWN BY: JB, EB
PROJECT NUMBER: 222033.00
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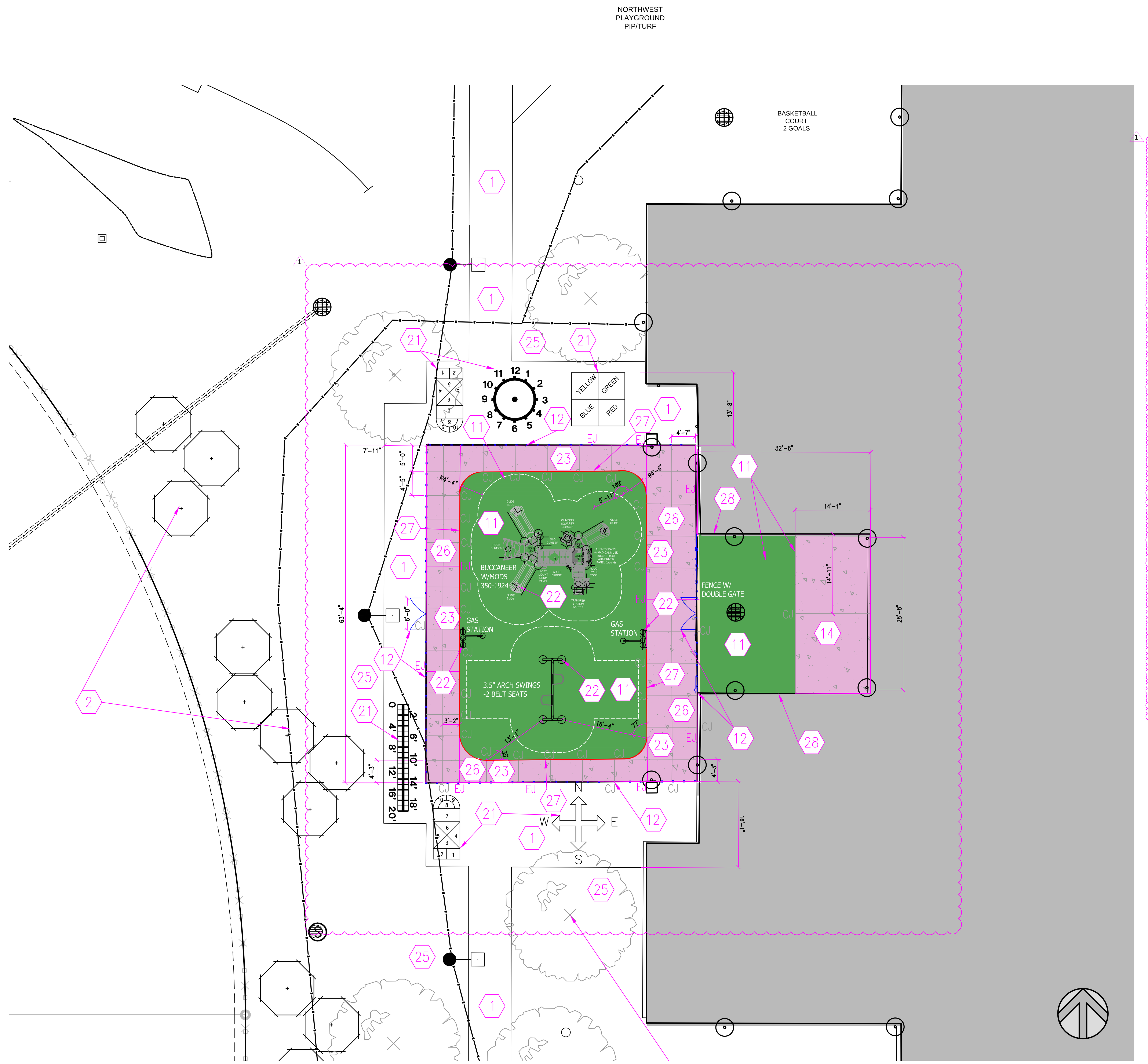
REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED NW PLAYGROUND SITE LAYOUT PLAN - CTE

CTE- L1.1

Drawing Path: J:\ 222033.00\ Production\ SHA\ CD\ CTE\ Ver4\ BASE - Addendum 1.dwg
Plotted By: ebrown Time of Plot: 12/17/25 - 3:35pm Last Edited: 12/17/25 - 10:39am



ENLARGED EARLY LEARNING PLAYGROUND SITE LAYOUT PLAN - CTE

SCALE: 1" = 10'-0"

EQUIPMENT BREAKDOWN:

Playground Area ELC — Equipment List & Descriptions

Playworld® Buccaneer with Modifications – Model 350-1924

Multi-level themed play structure designed to simulate a pirate ship environment. Provides climbing, sliding, balancing, and imaginative play opportunities appropriate for elementary-age children (5–12). Structure supports group interaction and varied play paths at multiple elevations.

- **Glide Slides (multiple):** Rotationally molded slides integrated at different deck heights to provide varied descent experiences and primary exits from elevated play platforms.
- **Rock Climber:** Molded climbing surface providing vertical access to elevated decks while promoting upper-body strength, coordination, and balance.
- **Silo Climber**: Vertical cylindrical climbing element integrated into the play structure to provide alternative access routes and additional climbing challenge.
- **Climbing Squares Climber**: Angled climbing element extending from the main structure to support strength development, coordination, and varied movement patterns.
- **Arch Bridge:** Curved bridge element connecting play decks, encouraging balance, transitional movement, and circulation between activity zones.
- **Post-Mounted Drum Panel:** Interactive percussion play element mounted to the structure to support sensory engagement and cooperative play.
- **Activity Panel with Magical Music Insert (Deck-Mounted):** Interactive play panel providing auditory and tactile engagement at deck level to support imaginative and sensory play.
- **ADA Driver Panel (Ground-Mounted):** Ground-accessible interactive panel providing inclusive play opportunities for users who remain at grade level.
- **Transfer Station with Step:** Accessible entry point allowing users to transfer onto the play structure in compliance with ADA accessibility guidelines.
- **NUVO™ Swirl Roof:** Overhead canopy element providing shade and visual identity while enhancing the thematic character of the structure.

Gas Station Play Panels (2 locations): Ground-level dramatic play elements positioned adjacent to the turf area to support role-play, social interaction, and inclusive play.

3.5" Arch Swing Set with (2) Belt Seat: Independent swing structure providing traditional swinging motion to support vestibular development, balance, and gross-motor activity.

According to the manufacturer's configuration, the play area provides:

– Multiple elevated play activities with varied access routes

– Multiple ground-level interactive play components

– Combination of physical, sensory, and imaginative play experiences

– Inclusive access via transfer station and ground-level panels

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4. EX. PRE-K PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 2 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - EX. SOUTH SLIDE GATE TO REMAIN (REPAINT TO LOOK LIKE NEW) , PROTECT DURING CONSTRUCTION
5. FOLLOWING EXISTING ASPHALT REMOVAL. REGRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. SEE DETAILS 9,10,11,16 CTE-L4.01 AND CIVIL DETAILS.
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 CTE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR KIDS TYP. SEE DETAIL 17 CTE-L4.01.
8. KINDERFGARTEN HARD PAVEMENT GAME AREA : POUR NEW 4" THICK REINFORCED CONCRETE PAVING ON EXISTING AGGREGATE BASE COURSE. PROVIDE NEW PAVEMENT GAMES WITHIN AREA MATCHING EXISTING FOUND ON SITE - SITE VERIFY EX. CONDITIONS AND DOCUMENT LAYOUTS PRIOR TO BIDDING AND START OF CONSTRUCTION. SEE DETAIL 4,5,6 CTE-L4.01 AND CIVIL DETAILS.
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10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 CTE-L4.01 AND CIVIL DETAILS.
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18. NEW 20' SHADE CANOPIES (2) BY LANDSCAPE STRUCTURES - BASIS OF DESIGN SEE PROJECT MANUAL FOR APPROVED MANUFACTURES - NO OTHER MANUF. WILL BE CONSIDERED TYP. INSTALL PER MANUF. WRITTEN RECOMMENDATION. PROVIDE FOOTINGS PER MANUF. LOCAL AND STATE GUIDELINES, EXISTING CONCRETE PAVING WITHIN HIGHLIGHTED (PURPLE) SPACE IS TO BE FULLY REPLACED - PROVIDE NEW FOOTINGS FOR SHADE STRUCTURE PER LOCAL CODES AND PER MANUF. WRITTEN RECOMMENDATIONS - CONTRACTOR IS TO OBTAIN STAMPED DRAWINGS FROM MANUF. FOR ALL CANOPY STRUCTURES AND FOOTING PRIOR TO THE START OF CONSTRUCTION TYP.
19. EX. CONC. CRACK REPAIR: GRIND DOWN UNEVEN AREAS ALONG CRACKED CONC. SURFACE PRIOR TO INSTALLING SELF LEVELING POLYURETHANE CRACK FILLER - SEAL PAVEMENT SURFACES AFTER CRACK FILLING.
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22. INSTALL LANDSCAPE STRUCTURES / PLAYWORLD (ELC PLAYGROUND) FREESTANDING PLAY EQUIPMENT IN LOCATIONS NOTED ON PLAN.
23. PAINT TOT TRACK ON NEW CONCRETE PAVING. SEE DETAIL 7 CTE-L4.00
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25. INSTALL 4" MIN. TOPSOIL, FINE GRADE, SEED AND HYDROMULCH AREAS DISTURBED BY CONSTRUCTION..
26. POUR REINFORCED CONCRETE SLAB IN SHADED AREAS AS NOTED OVER 6" COMPACTED CRUSHED 1" DIA. AGGREGATE. ACCEPTABLE 'POLY' FIBER MAY BE USED IN LIEU OF WIRE MESH REINFORCEMENT. SEE DETAILS 4,5,6 CTE-L4.01 AND CIVIL DETAILS.
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28. BOLT 2X4" COMPOSITE NAILER BOARD FOR SYNTHETIC TURF INSTALLATION TO EXISTING BUILDING FOUNDATION. GRIND AND SMOOTH ANY IMPERFECTIONS FROM FOUNDATION TO ALLOW NAILER BOARD INSTALLATION.
29. EXISTING TO NEW CONCRETE TRANSITION. SEE DETAIL 21 CTE-L4.01 AND CIVIL DETAILS
30. PROTECT EXISTING CURB AND REPAIR ANY CONSTRUCTION DAMAGE.
31. NEW NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH.AND COMPACTED SUB-BASE. PROVIDE NEW CONTROL AND EXPANSION JOINT LAYOUT MATCHING EX. CONC. PAVING TO REMAIN ADJACENT TO NEW PAD - SITE VERIFY EX. CONDITIONS AND DOCUMENT LAYOUTS PRIOR TO BIDDING AND START OF CONSTRUCTION. SEE DETAIL 4,5,6 CTE-L4.01 AND CIVIL DETAILS FOR FURTHER INFORMATION.

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1. ALL CONTRACTORS BUT NOT LIMITED TO THE EXCAVATING CONTRACTOR OR CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTATIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS OR UTILITY COMPANIES OR AGENCIES WHOMEVER HAS JURISDICTION SO NOT TO CAUSE DAMAGE.
2. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, OIL, GASOLINE, ETC., BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS, SHALL BE RECONSTRUCTED TO IT'S ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. THIS RECONSTRUCTION AND REPAIR SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BEAR ALL EXPENSES TO REMOVE, RELOCATE AND OR MODIFY ALL UTILITIES, PRIVATE, PUBLIC, UNLESS NOTED OTHERWISE ON PLANS. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT TO WHO IS RESPONSIBLE TO REMOVE, RELOCATE AND OR MODIFY SUCH UTILITIES EXISTING OR PROPOSED. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IF ANY FUTURE UTILITIES ARE PLANNED AND HOW IT MAY EFFECT THIS PROJECT AND ITS OWNER AS TO THEIR RESPONSIBILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS INCLUDES THE SUBMITTAL FOR LAND DISTURBANCE AND THE SUBMITTAL FOR SOIL EROSION AND SEDIMENT CONTROL IF REQUIRED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 800-382-5544 BEFORE DIGGING.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAY, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.
10. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND / OR ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS.
11. ALL LISTED SQ. FT TOTALS ARE ESTIMATES AND NOT FINAL – GIVEN TOTALS SHOULD BE CONFIRMED ON SITE PRIOR TO BIDDING AND START OF CONSTRUCTION

PROPOSED SITE LEGEND

- NEW ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW CONC. PAVING AT SHELTER
- NEW BASKETBALL COURT

811 Know what's below. Call before you dig.

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

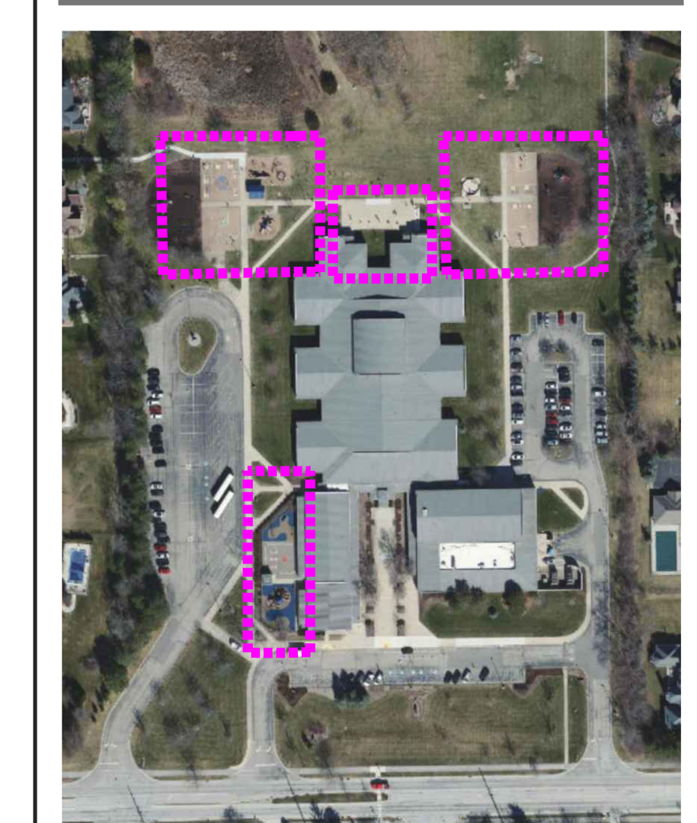
LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

CHERRY TREE ELEMENTARY SCHOOL PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

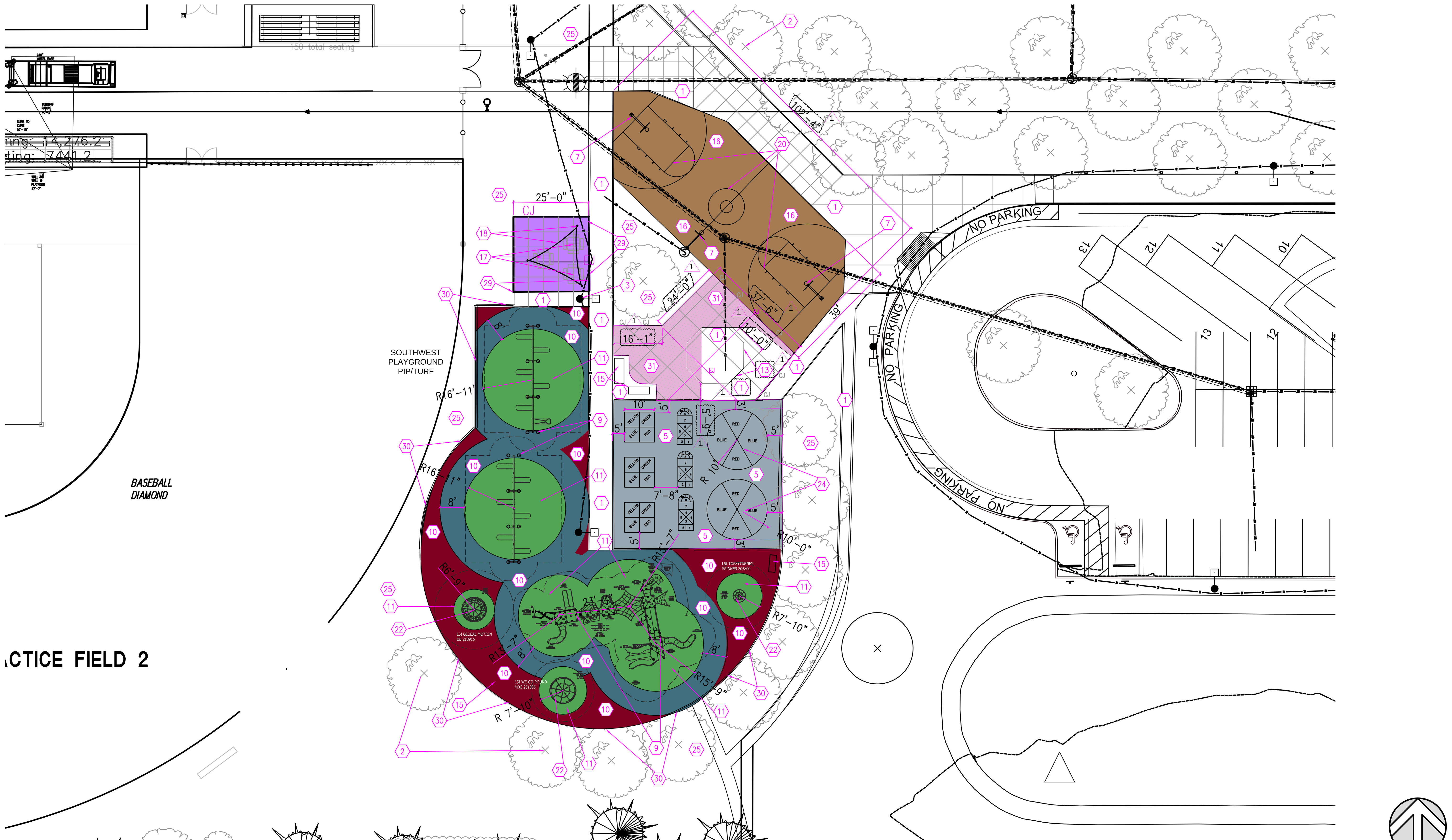
PROJECT MANAGER: KS
DRAWN BY: JB, EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11- 20- 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED EARLY LEARNING PLAYGROUND SITE LAYOUT PLAN-CTE

CTE- L1.2

CHERRY TREE ELEMENTARY SCHOOL PLAYGROUND RENOVATION



ENLARGED SW PLAYGROUND SITE LAYOUT PLAN - CTE

SCALE: 1" =20'-0"

0 SITE LAYOUT KEYNOTES

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PROPOSED SITE LEGEND (1)

- NEW ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW CONC. PAVING AT SHELTER
- NEW BASKETBALL COURT

811 Know what's below. Call before you dig.
Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. Call 48 hours or 2 working days before you dig. It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

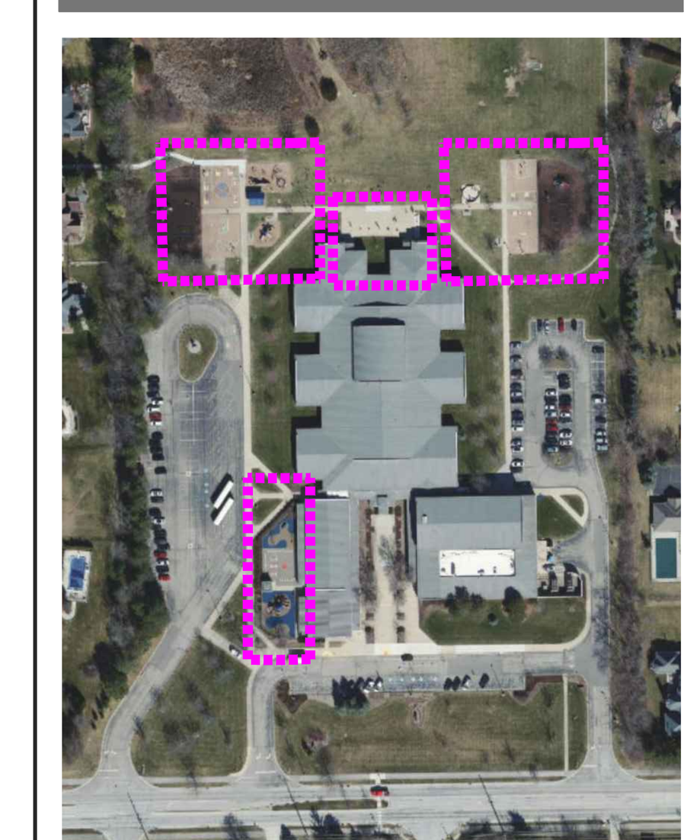
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: JB, EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11- 20- 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED SW PLAYGROUND SITE LAYOUT PLAN - CTE

CTE- L1.3

ENLARGED KINDERGARTEN PLAYGROUND SITE LAYOUT PLAN - CTE
SCALE: 1" =20'-0"

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PROPOSED SITE LEGEND

- NEW ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW CONC. PAVING AT SHELTER
- NEW BASKETBALL COURT

SITE LAYOUT KEYNOTES

1. EXISTING CONCRETE PAVING TO REMAIN - PROTECT DURING CONSTRUCTION TYP
2. ALL EX. SITE LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE - PROTECT DURING CONSTRUCTION TYP
3. EX. SITE LIGHTING TO BE REMOVED IN NOTED LOCATIONS - PROVIDE NEW LIGHT POLES BASES, POLE AND HEAD WHERE NOTED ON ELECTRICAL DRAWINGS
4. EX. PRE-K PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 2 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - EX. SOUTH SLIDE GATE TO REMAIN (REPAINT TO LOOK LIKE NEW) , PROTECT DURING CONSTRUCTION
5. FOLLOWING EXISTING ASPHALT REMOVAL. REGRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. SEE DETAILS 9,10,11,16 CTE-L4.01 AND CIVIL DETAILS.
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 CTE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR KIDS TYP. SEE DETAIL 17 CTE-L4.01.
8. KINDERFGARTEN HARD PAVEMENT GAME AREA : POUR NEW 4" THICK REINFORCED CONCRETE PAVING ON EXISTING AGGREGATE BASE COURSE. PROVIDE NEW PAVEMENT GAMES WITHIN AREA MATCHING EXISTING FOUND ON SITE - SITE VERIFY EX. CONDITIONS AND DOCUMENT LAYOUTS PRIOR TO BIDDING AND START OF CONSTRUCTION. SEE DETAIL 4,5,6 CTE-L4.01 AND CIVIL DETAILS.
9. EXISTING PLAYGROUND STRUCTURES TO REMAIN EXCEPT THE ACCESSORY PLAY EQUIPMENT NOTED ARE TO BE REMOVED AND OR REPLACED WITH NEW; ROPE CLIMBERS, ALL ROPE ELEMENTS TO BE REPLACED FULLY, CONICAL CLIMBERS WITHIN ALL LOCATIONS ARE TO BE FULLY REMOVED - SEE LAYOUT PLANS FOR PROPOSED PLAY EQUIPMENT WITHIN THE NOTED LOCATIONS FOR REMOVAL.
10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 CTE-L4.01 AND CIVIL DETAILS.
11. INSTALL NEW SYNTHETIC TURF SYNPRO 65 OR APPROVED EQUAL WITH THATCH LAYER AND INFILL SYSTEM ON AGGREGATE OR BUFFING BASE COURSE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE AND TIE INTO EXISTING UNDERDRAIN OUTLET. INSTALL TURF IN COLOR AS SELECTED BY ARCHITECT (MEDIUM GREEN). SEE DETAIL 2 CTE-L4.01 AND CIVIL DETAILS.
12. INSTALL NEW 4' HIGH CHAIN-LINK FENCING WITH (2) DOUBLE WIDE MAN GATES IN EARLY LEARNING CENTER IN LOCATIONS SHOWN. SEE DETAILS 12,13,14,15 CTE-L4.01 AND CIVIL DETAILS.
13. RELOCATED GAGA PIT: SECURE EX. GAGA PIT TO NEW CONC. PAD PER MANUF. WRITTEN RECOMMENDATIONS
14. CONCRETE STOOP - SEE ARCHITECTURAL SHEETS FOR FURTHER INFORMATION
15. NEW BENCH SEATING : DEMO EX. BENCHES - PROVIDE NEW BENCHES MATCHING CCS STANDARDS - SECURE NEW BENCH TO NEW 4" THICK REINFORCED CONC. BASE OVER 6" COMPACTED 1" DIA. AGGREGATE PER MANUFACTURERS RECOMMENDATIONS. EX. CONC. PAVING TO REMAIN - PROTECT DURING CONSTRUCTION. SEE DETAIL 8 CTE-L4.00.
16. NEW ASPHALT PAVING: INSTALL NEW COMPACTED AGGREGATE SUB-BASE , INTERMEDIATE ASPHALTIC BASE WITH SURFACE COURSE - PROVIDE POSITIVE SURFACE DRAINAGE TO EX. STORM DRAINS TYP. NO RAP AGGREGATE TO BE USED IN SURFACE ASPHALT LAYER. SEE DETAILS 9,10,11,16 CTE-L4.01 AND CIVIL DETAILS.
17. RENOVATED TABLES AND BENCHES: REMOVE EXISTING WOOD TABLE TOPS AND SEAT BOARDS FROM EXIST. TABLES (7) AND BENCHES. THOROUGHLY CLEAN AND REPAINT EXISTING TABLE AND BENCH FRAMING AND INSTALL NEW 2" THICK POLY STYLE PLANKS (WOOD TEXTURE) TO EX. METAL FRAMING. SECURE PER. MANUF. WRITTEN INSTRUCTIONS TYP
18. NEW 20' SHADE CANOPIES (2) BY LANDSCAPE STRUCTURES - BASIS OF DESIGN SEE PROJECT MANUAL FOR APPROVED MANUFACTURES - NO OTHER MANUF. WILL BE CONSIDERED TYP. INSTALL PER MANUF. WRITTEN RECOMMENDATION. PROVIDE FOOTINGS PER MANUF. LOCAL AND STATE GUIDELINES, EXISTING CONCRETE PAVING WITHIN HIGHLIGHTED (PURPLE) SPACE IS TO BE FULLY REPLACED - PROVIDE NEW FOOTINGS FOR SHADE STRUCTURE PER LOCAL CODES AND PER MANUF. WRITTEN RECOMMENDATIONS - CONTRACTOR IS TO OBTAIN STAMPED DRAWINGS FROM MANUF. FOR ALL CANOPY STRUCTURES AND FOOTING PRIOR TO THE START OF CONSTRUCTION TYP.
19. EX. CONC. CRACK REPAIR: GRIND DOWN UNEVEN AREAS ALONG CRACKED CONC. SURFACE PRIOR TO INSTALLING SELF LEVELING POLYURETHANE CRACK FILLER - SEAL PAVEMENT SURFACES AFTER CRACK FILLING.
20. BASKETBALL MARKINGS SHALL MEET NFHS STANDARD DIMENSIONS .SEE DETAIL 6 CTE-L4.00
21. PAINT GAME MARKINGS ON EXISTING CONCRETE PAVING. SEE DETAILS 1,4,5 CTE-L4.00 AND 18,19,20 CTE-L4.01
22. INSTALL LANDSCAPE STRUCTURES / PLAYWORLD (ELC PLAYGROUND) FREESTANDING PLAY EQUIPMENT IN LOCATIONS NOTED ON PLAN.
23. PAINT TOT TRACK ON NEW CONCRETE PAVING. SEE DETAIL 7 CTE-L4.00
24. INSTALL TETHER BALL COURT MARKINGS AND EQUIPMENT IN LOCATIONS NOTED. SEE DETAIL 3 CTE-L4.00
25. INSTALL 4" MIN. TOPSOIL, FINE GRADE, SEED AND HYDROMULCH AREAS DISTURBED BY CONSTRUCTION..
26. POUR REINFORCED CONCRETE SLAB IN SHADED AREAS AS NOTED OVER 6" COMPACTED CRUSHED 1" DIA. AGGREGATE. ACCEPTABLE 'POLY' FIBER MAY BE USED IN LIEU OF WIRE MESH REINFORCEMENT. SEE DETAILS 4,5,6 CTE-L4.01 AND CIVIL DETAILS.
27. POUR THICKENED CONCRETE EDGE FOR NAILER BOARD ATTACHMENT FOR NEW SYNTHETIC TURF INSTALLATION. SEE DETAIL 7 CTE-L4.01 AND CIVIL DETAILS.
28. BOLT 2X4" COMPOSITE NAILER BOARD FOR SYNTHETIC TURF INSTALLATION TO EXISTING BUILDING FOUNDATION. GRIND AND SMOOTH ANY IMPERFECTIONS FROM FOUNDATION TO ALLOW NAILER BOARD INSTALLATION.
29. EXISTING TO NEW CONCRETE TRANSITION. SEE DETAIL 21 CTE-L4.01 AND CIVIL DETAILS
30. PROTECT EXISTING CURB AND REPAIR ANY CONSTRUCTION DAMAGE.
31. NEW NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH.AND COMPACTED SUB-BASE. PROVIDE NEW CONTROL AND EXPANSION JOINT LAYOUT MATCHING EX. CONC. PAVING TO REMAIN ADJACENT TO NEW PAD - SITE VERIFY EX. CONDITIONS AND DOCUMENT LAYOUTS PRIOR TO BIDDING AND START OF CONSTRUCTION. SEE DETAIL 4,5,6 CTE-L4.01 AND CIVIL DETAILS FOR FURTHER INFORMATION.

811 Know what's below. Call before you dig.

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CHERRY TREE ELEMENTARY SCHOOL PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
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317-848-0966 WWW.FHAI.COM
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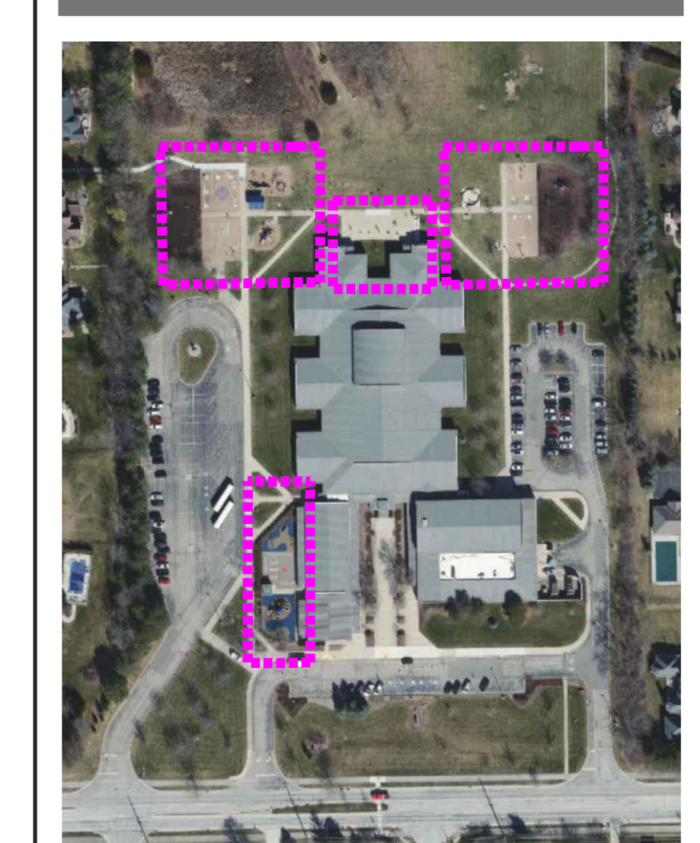


BID SET

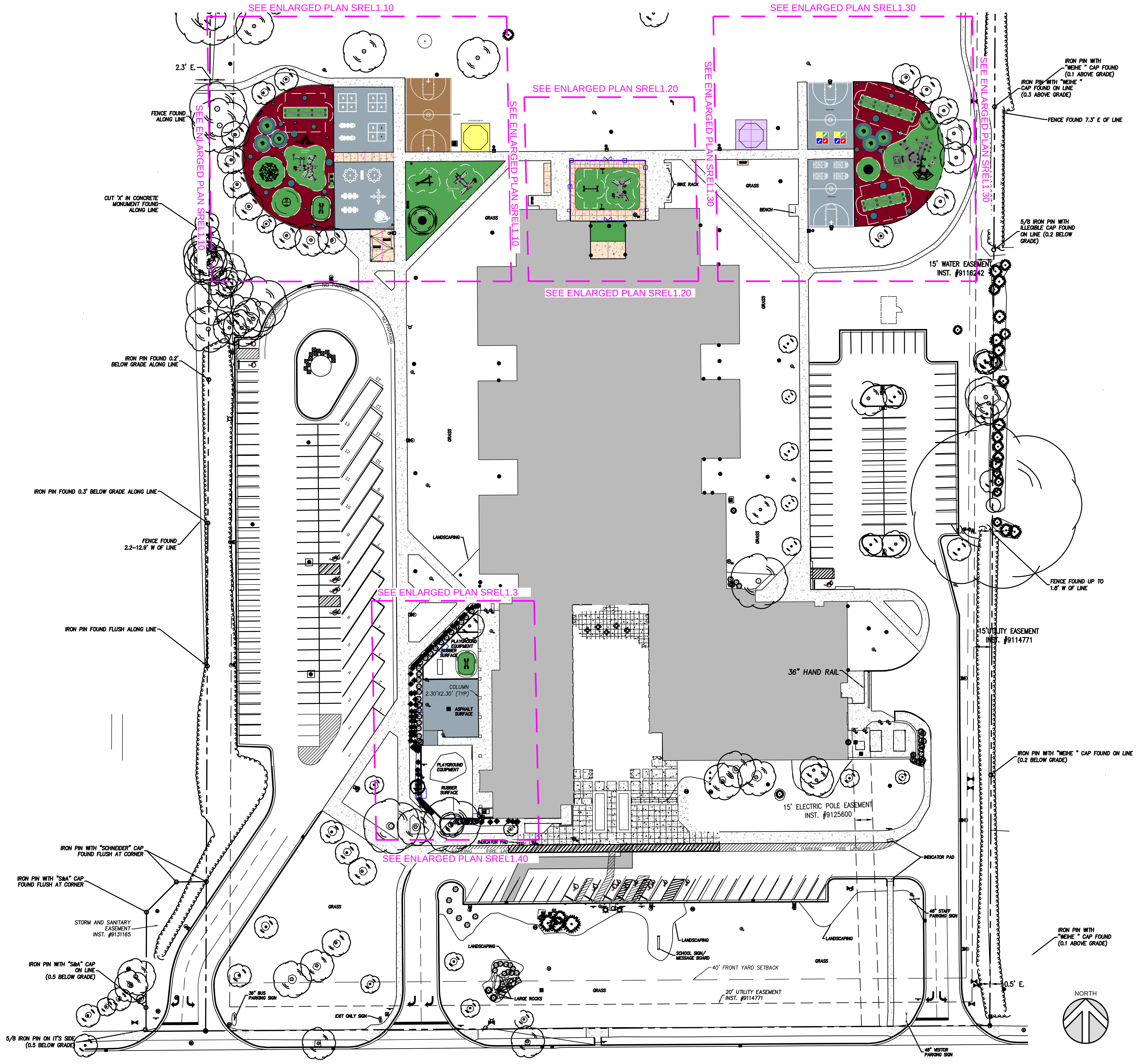
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: JB, EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11- 20- 2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED KINDERGARTEN PLAYGROUND SITE LAYOUT PLAN-CTE

CTE- L1.4



OVERALL SITE LAYOUT PLAN: SRE

SCALE: 1" = 40'-0"

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7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS INCLUDES THE SUBMITTAL FOR LAND DISTURBANCE AND THE SUBMITTAL FOR SOIL EROSION AND SEDIMENT CONTROL IF REQUIRED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 800-382-5544 BEFORE DIGGING.

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAY, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.

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11. ALL LISTED SQ. FT TOTALS ARE ESTIMATES AND NOT FINAL – GIVEN TOTALS SHOULD BE CONFIRMED ON SITE PRIOR TO BIDDING AND START OF CONSTRUCTION

PROPOSED SITE LEGEND

- FULL REPLACEMENT OF EX. ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW GAGA PIT / CONC. PAD - FINAL LOCATION OF EX. GAGA PIT - POST CONSTRUCTION
- TEMPORARY RELOCATED GAGA PIT
- NEW BASKETBALL COURT

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CAUTION !!

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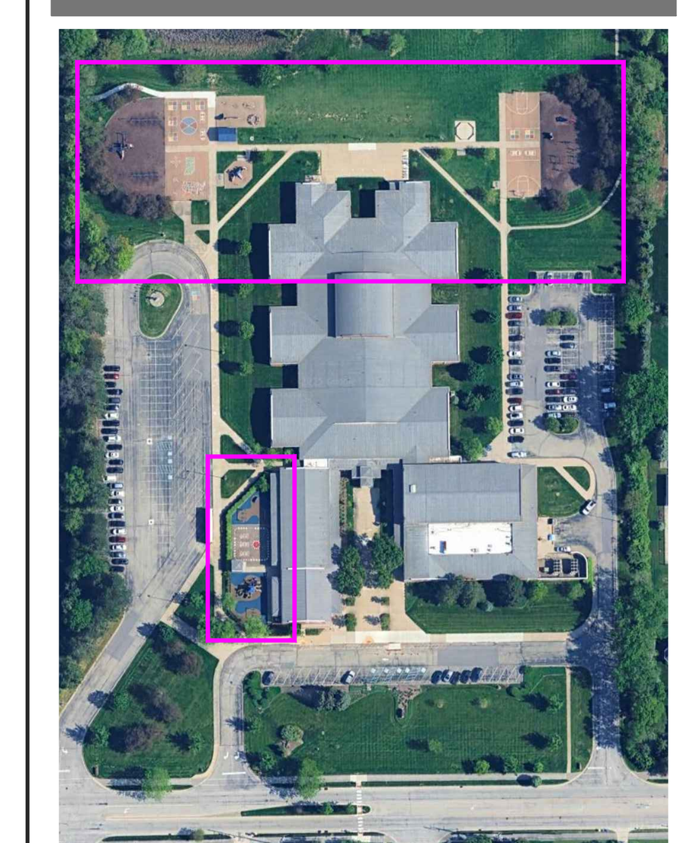
LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

SMOKY ROW ELEMENTARY SCHOOL BUILDING / PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

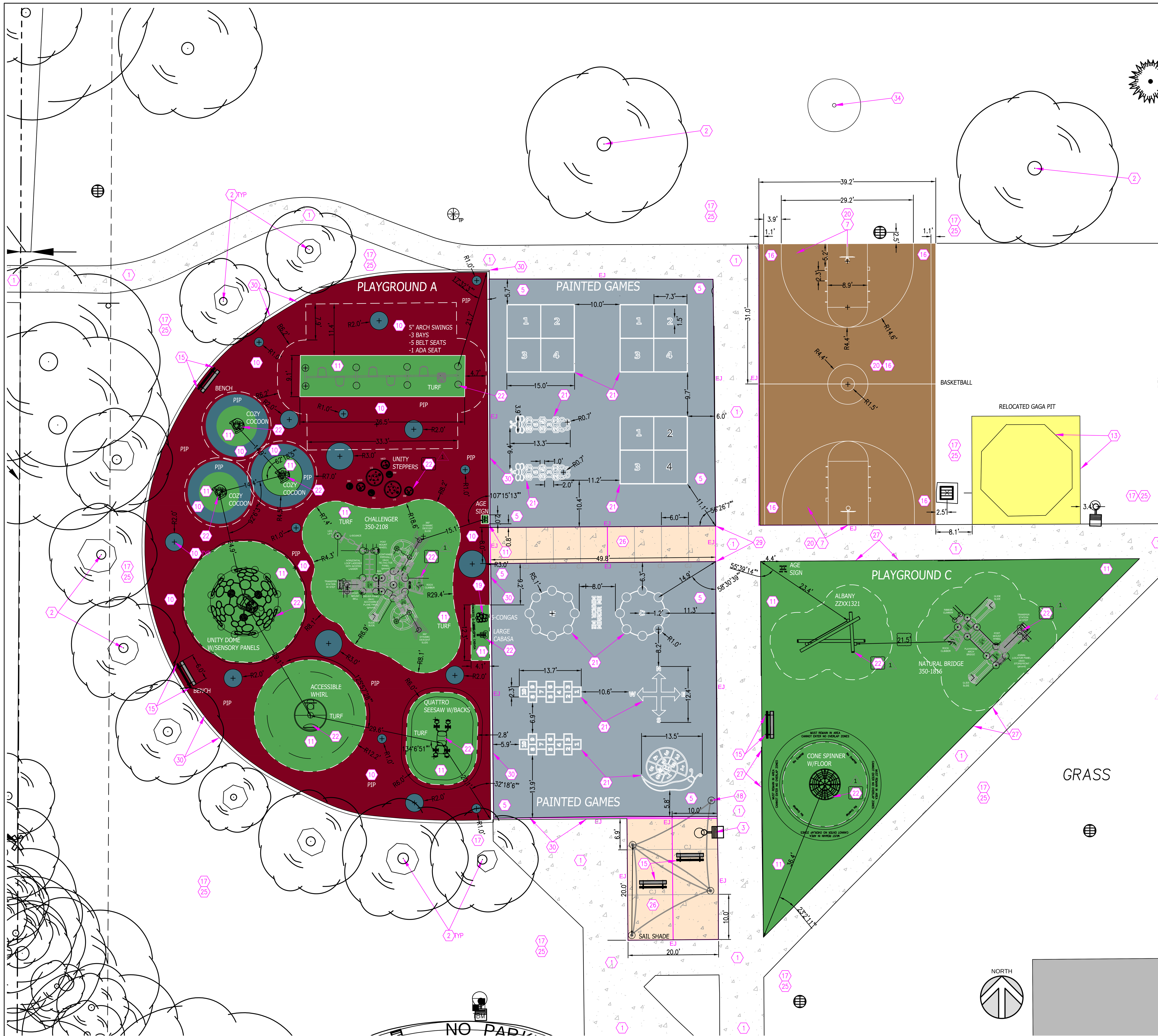
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

OVERALL SITE PLAN

SREL1.00



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- FULL REPLACEMENT OF EX. ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW GAGA PIT / CONC. PAD - FINAL LOCATION OF EX. GAGA PIT - POST CONSTRUCTION
- TEMPORARY RELOCATED GAGA PIT
- NEW BASKETBALL COURT

EQUIPMENT BREAKDOWN:

Playground Area C — Equipment List & Descriptions

Timber Stacks™ Albany – Product #ZZXX1321

Low-profile natural play element designed to support balance, climbing, coordination, and imaginative movement-based play. The Albany configuration utilizes timber-look vertical posts, horizontal logs, and flexible rope elements to create a freestanding challenge course suitable for elementary-age users (5–12).

- **Timber Balance Beams:** Fixed horizontal log elements arranged at varied heights to encourage balancing, stepping, and transitional movement.
- **Vertical Timber Posts:** Upright timber-look posts providing structure, visual definition, and climbing reference points for balance-based play.
- **Angled / Offset Log Elements:** Horizontally mounted logs positioned at slight offsets to increase challenge and promote coordination and body awareness.
- **Flexible Rope Connector:** Tensioned rope element spanning between vertical posts to introduce dynamic movement and balance challenge.
- **Ground-Level Play Configuration:** All play components remain at low height, supporting confidence-building play and minimizing fall risk while encouraging physical engagement.
- **Open-Ended / Imaginative Play:** Natural materials and minimal form allow children to create their own play narratives, obstacle challenges, and movement paths.

According to the manufacturer's configuration, the play element provides:

– Multiple balance-based play activities

– Low-height climbing and stepping opportunities

– Gross-motor skill development

– Natural aesthetic compatible with turf or resilient surfacing

components.Natural Bridge — Qty: 1
Natural bridge by Playworld is a commercial playground structure designed for children ages 2-12. It is part of Playworld's Challengers line and blends functional play with nature-inspired aesthetic, making it well suited for parks, schools, or community recreation spaces that want a playground with versatile appeal.

1. Animal Locator Panel (deck), Storefront (ground)
2. Transfer Station W/Step
3. Post Mount Wheel
4. Glide Side (2)
5. Ribbon Climber
6. Rock Climber
7. Playworld Arch Bridge

Cone Spinner W/Floor
Signature sculptural/rope climbing element that adds vertical interest.

EQUIPMENT BREAKDOWN:

PLAYGROUND AREA A

- ***Unity Dome with Sensory Panels*** *– Dome has openings wide enough for wheelchairs to access the center. Center net has a platform at transfer height, allowing users to be a part of the net play. Exterior has three sensory panels added. Circles of the dome are at varied diameters and spacing, allowing users to decide their own path based on their own abilities.*
- **Challenger® 350-2108:** Built to support active play including climbing, sliding, balancing, and group interaction. The structure's size and capacity make it appropriate for elementary-school-age children (5–12).
  - o **Dynamic Descent Slide** – Elevated slide providing a primary exit and active descent from the structure.
  - o **Sliding Stations / Slides** – One or more slide entry and exit points incorporated into the overall play configuration.
  - o **Vertical Climbers** – Ladder-style and/or rope climbers providing access to elevated play decks.
  - o **Angled / Rope Climbers** – Sloped rope climbing elements extending from the main structure to support strength, coordination, and varied access routes.
  - o **Horizontal Loop Ladder** – Ladder-style traversal element allowing children to move laterally across the structure (monkey-bar-type play).
  - o **Balance & Traversal Elements** – Overhead or extended arm components with suspended stepping pods or balance features promoting coordination and dynamic movement.
  - o **ADA-Access Stairs / Transfer Station with Step** – Accessible entry point allowing users to transfer onto elevated play components.
  - o **Post-Mounted Interactive Panel** – Ground-accessible interactive feature (e.g., steering-wheel-style or activity panel) mounted to the structure.
  - o **Twist-n-Shout® Components** – Rotating or spiral climbing elements incorporated into the play structure to provide additional movement-based challenges.
- o **According to the manufacturer's configuration, the structure provides:**
  – 5 elevated play activities (4 accessible)
  – 2 ground-level play activities
- ***Cozy Cocoon (secondary location): (3 total)*** *Additional sensory/quiet pod to support inclusive programming when central main play structure area is busy.*

- ***Accessible Whirl*** *– Users who can and can't transfer have the ability to play together*
- ***Swings*** *– 1 Accessible Swing seat. Placing the ADA swings seat within the row of swings seats allows the users to be a part of the play rather than on the edge of the play with their peers*
- ***Congas*** *– Zero Transfer. Auditory Sensory*
- ***Cabasa*** *- Zero Transfer. Auditory Sensory*
- ***Steppers*** *– Balance and Social Play. Large stepper is at transfer height, allowing users to transfer to sit and chat with friends.*
- ***Quattro Seesaw*** *– Backed seats and appropriate handle location provide support to users (some of our competitors use oversized seats that do not allow users to perform the movement of the seesaw on their own). Center platform is at transfer height, allowing users to transfer to the platform to sit or lay, becoming a part of the play as their peers create movement.*

SITE LAYOUT KEYNOTES

1. CONCRETE PAVING - SEE CIVIL DRAWINGS GD1.0-GD1.3 , AND G1.0-G1.3 FOR FURTHER INFORMATION
2. ALL EX. SITE LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE - SEE SITE LANDSCAPING PLANS FOR FURTHER INFORMATION
3. EX. SITE LIGHTING TO BE REMOVED IN NOTED LOCATIONS - PROVIDE NEW LIGHT POLES BASES, POLE AND HEAD WHERE NOTED ON ELECTRICAL DRAWINGS
4. EX. KINDERGARTEN PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 1 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - SEE DETAILS 12,13,14,15 SRE-L4.01.
5. FOLLOWING EXISTING ASPHALT REMOVAL. RE-GRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. PROVIDE PRICING FOR SEALCOATING APPLICATION (1 YEAR) AND PVMT MARKINGS AFTER INSTALL - SEE DETAILS 9,10,11,16 SRE-L4.01
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 SRE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING BRAND AND STYLE FOUND ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR 3-5 AGE GROUP KIDS TYP. SEE DETAIL 17 SRE-L4.01.
8. KINDERGARTEN HARD PAVEMENT GAME AREA : SEE CIVIL DRAWINGS FOR FURTHER INFORMATION PERTAINING TO DEMO AND PUT BACK
9. GAGA PIT: EX. PLAY STRUCTURE FOUND ON SITE. POUR NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE / SUB-BASE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH. SECURE NEW GAGA PIT TO NEW CONC. PAD PER MANUF. WRITTEN RECOMMENDATIONS
10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 SREL4.01
11. INSTALL NEW SYNTHETIC TURF SYNPRO 65 OR APPROVED EQUAL WITH THATCH LAYER AND INFILL SYSTEM ON AGGREGATE OR BUFFING BASE COURSE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET. INSTALL TURF IN COLOR AS SELECTED BY ARCHITECT (MEDIUM GREEN). SEE DETAIL 2 SRE-L4.01.
12. INSTALL NEW 4' HIGH CHAIN-LINK FENCING WITH (2) DOUBLE WIDE MAN GATES IN EARLY LEARNING CENTER IN LOCATIONS SHOWN. SEE DETAILS 12,13,14,15 SRE-L4.01.
13. RELOCATED GAGA PIT (IN LAWN): RELOCATE BACK TO EX. LOCATION PRIOR TO THE COMPLETION OF CONSTRUCITON - SEE PLAN NOTE #9 SRE-L1.10
14. U SHAPED BIKE RACK: PER DETAIL O G4.2
15. NEW BENCH SEATING : DEMO EX. BENCHES - PROVIDE NEW BENCHES MATCHING CCS STANDARDS (BASIS-OF-DESIGN; SITESCAPES CITYVIEW BENCH IN QUANTITIES AND SIZES AS SHOWN IN PLANS SECURE NEW BENCH TO NEW 4" THICK REINFORCED CONC. BASE OVER 6" COMPACTED 1" DIA. AGGREGATE PER MANUFACTURERS RECOMMENDATIONS. EX. CONC. PAVING TO REMAIN - PROTECT DURING CONSTRUCTION - SEE DETAIL #8 SRE-L4.00
16. NEW ASPHALT PAVING: INSTALL NEW 6" DEEP LAYER COMPACTED 1" DIA. AGGREGATE SUB-BASE , 3" INTERMEDIATE ASPHALTIC BASE WITH 2" SURFACE COURSE - PROVIDE POSITIVE SURFACE DRAINAGE TO EX. STORM DRAINS TYP. NO RAP AGGREGATE TO BE USED IN SURFACE ASPHALT LAYER. PROVIDE PRICING FOR SEALCOATING APPLICATION (1 YEAR) AFTER INSTALL - SEE DETAILS 9,10,11,16 SRE-L4.01.
17. EX. LAWN TO REMAIN - PROTECT DURING CONSTRUCTION
18. NEW 20' SHADE CANOPIES (3) BY LANDSCAPE STRUCTURES - BASIS OF DESIGN SEE PROJECT MANUAL FOR APPROVED MANUFACTURES - NO OTHER MANUF. WILL BE CONSIDERED TYP. INSTALL PER MANUF. WRITTEN RECOMMENDATION. PROVIDE FOOTINGS PER MANUF. LOCAL AND STATE GUIDELINES, EXISTING CONCRETE PAVING WITHIN HIGHLIGHTED (PURPLE) SPACE IS TO BE FULLY REPLACED - PROVIDE NEW FOOTINGS FOR SHADE STRUCTURE PER LOCAL CODES AND PER MANUF. WRITTEN RECOMMENDATIONS - CONTRACTOR IS TO OBTAIN STAMPED DRAWINGS FROM MANFU. FOR ALL CANOPY STRUCTURES AND FOOTING PRIOR TO THE START OF CONSTRUCTION TYP.
19. CONCRETE STOOP - SEE ARCHITECTURAL PLANS
20. BASKETBALL MARKINGS SHALL MEET NFHS STANDARD DIMENSIONS .REPAINT LINES AFTER SEALCOATING OPERATIONS THE FOLLOWING YEAR - SEE DETAIL 6 SRE-L4.00
21. PAINT GAME MARKINGS - SEE PLAN FOR LAYOUTS NOT PROVIDED WITHIN DETAILS - SEE DETAILS 1,4,5 SREL4.00 AND 18,19,20 SREL4.01
22. INSTALL PLAYWORLD FREESTANDING PLAY EQUIPMENT IN LOCATIONS NOTED ON PLAN. INSTALL PER MANUF. WRITTEN DIRECTIONS SEE PLANS FOR PLAY EQUIPMENT NAMES AND LAYOUT TYP
23. PAINT TOT TRACK ON NEW CONCRETE PAVING. SEE DETAIL 7 SRE-L4.00
24. FENCE MOUNTED COMMUNICATION BOARD (DOUBLE SIDED): SECURE BOARD TO NEW CHAIN-LINK FENCING PER SIGN MANUF. WRITTEN RECOMMENDATIONS
25. SEED DISTURBED LAWN AREAS DISTURBED DURING CONSTRUCTION REFER TO LANDSCAPE PLANS L1.0-L1.3
26. NEW CONC. PAVING - SEE CIVIL DRAWINGS GD1.2,GD1.3 AND LAYOUT PLANS G1.2, G1.3 FOR FURTHER INFORMATION SEE DETAILS 4,5,6 SRE-L4.01 FOR CIVIL DETAIL CALL OUTS.
27. POUR THICKENED CONCRETE EDGE FOR NAILER BOARD ATTACHMENT FOR NEW SYNTHETIC TURF INSTALLATION. SEE DETAIL 7 SRE-L4.01.
28. BOLT 2X4" COMPOSITE NAILER BOARD FOR SYNTHETIC TURF INSTALLATION TO EXISTING BUILDING FOUNDATION. GRIND AND SMOOTH ANY INPERFECTIONS FROM FOUNDATION TO ALLOW NAILER BOARD INSTALLATION.
29. EXISTING TO NEW CONCRETE TRANSITION - SEE DETAIL F SRE-G4.1
30. PROTECT EXISTING CURB AND REPAIR ANY CONSTRUCTION DAMAGE.
31. NOT USED
32. NOT USED
33. REMOVED EX. SEESAW IN IT'S ENTIRETY PRIOR TO INSTALLING NEW EQUIP. INSTALL NEW SYNTHETIC TURF AND NEW PLAYWORLD / BERLINGER FREESTANDING PLAY IN LOCATIONS SHOWN - SEE DETAIL 2 SRE-L4.1 INSTALL AND SECURE TO EX. SURFACE PER TURF MAUF. RECOMMENDATIONS
34. TRANSPLANTED TREE - SEE DETAIL #9 SRE-L4.00
35. PROVIDE NEW ADA SWINGS (1)- MATCH EX. FOUND ON SITE INSTALL PER EX. SWING MANUF. WRITTEN RECOMMENDATIONS
36. EXISTING PIP PLAYGROUND SURFACING / PLAY EQUIP. TO REMAIN NOT MARKED FORE REMOVAL - PROTECT DURING CONSTRUCTION TYP

ENLARGED SITE LAYOUT PLAN: SRE

SCALE: 1" = 10'–0"

GENERAL LAYOUT NOTES

1. ALL CONTRACTORS BUT NOT LIMITED TO THE EXCAVATING CONTRACTOR OR CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTATIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS OR UTILITY COMPANIES OR AGENCIES WHOMEVER HAS JURISDICTION SO NOT TO CAUSE DAMAGE.
2. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, OIL, GASOLINE, ETC., BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS, SHALL BE RECONSTRUCTED TO IT'S ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. THIS RECONSTRUCTION AND REPAIR SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BEAR ALL EXPENSES TO REMOVE, RELOCATE AND OR MODIFY ALL UTILITIES, PRIVATE, PUBLIC, UNLESS NOTED OTHERWISE ON PLANS. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT TO WHO IS RESPONSIBLE TO REMOVE, RELOCATE AND OR MODIFY SUCH UTILITIES EXISTING OR PROPOSED. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IF ANY FUTURE UTILITIES ARE PLANNED AND HOW IT MAY EFFECT THIS PROJECT AND ITS OWNER AS TO THEIR RESPONSIBILITIES.
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Drawing Path: J:\222033.00\Production\Site\CD\SRE\xrefs\BASE - ADD 1.dwg Last Edited: 12/16/25 - 12:16pm
Plotted By: ebrown Time of Plot: 12/16/25 - 12:28pm

811 Know what's below. Call before you dig.
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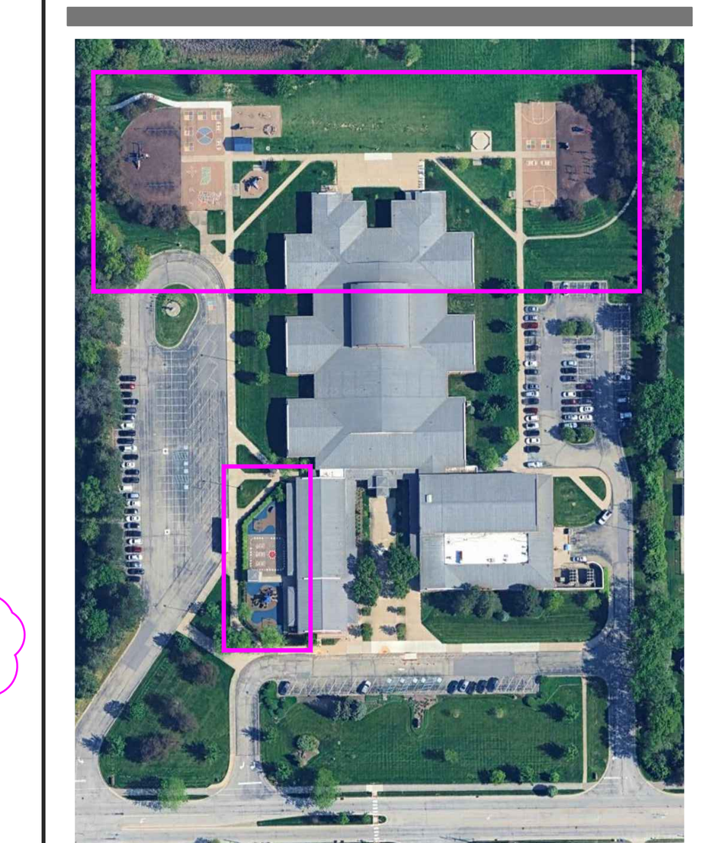


BID SET

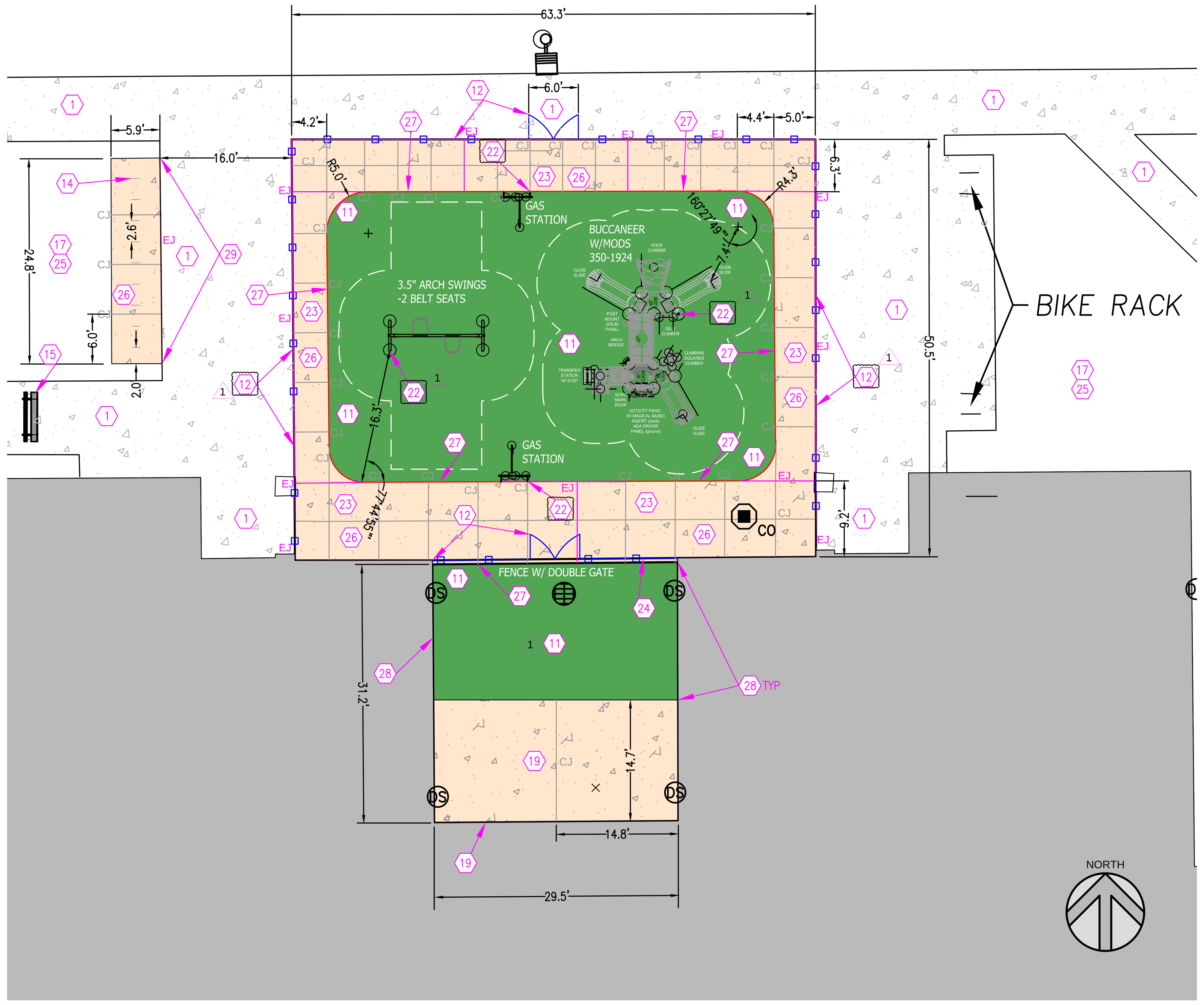
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED SITE PLAN
PLAYGROUND A & C

SREL1.10



ENLARGED SITE LAYOUT PLAN: SRE

SCALE: 1" = 10'-0"

EQUIPMENT BREAKDOWN:

Playground Area ELC — Equipment List & Descriptions

1

Playworld® Buccaneer with Modifications – Model 350-1924

Multi-level themed play structure designed to simulate a pirate ship environment. Provides climbing, sliding, balancing, and imaginative play opportunities appropriate for elementary-age children (5–12). Structure supports group interaction and varied play paths at multiple elevations.

- **Glide Slides (multiple):** Rotationally molded slides integrated at different deck heights to provide varied descent experiences and primary exits from elevated play platforms.
- **Rock Climber:** Molded climbing surface providing vertical access to elevated decks while promoting upper-body strength, coordination, and balance.
- **Silo Climber**: Vertical cylindrical climbing element integrated into the play structure to provide alternative access routes and additional climbing challenge.
- **Climbing Squares Climber**: Angled climbing element extending from the main structure to support strength development, coordination, and varied movement patterns.
- **Arch Bridge:** Curved bridge element connecting play decks, encouraging balance, transitional movement, and circulation between activity zones.
- **Post-Mounted Drum Panel:** Interactive percussion play element mounted to the structure to support sensory engagement and cooperative play.
- **Activity Panel with Magical Music Insert (Deck-Mounted):** Interactive play panel providing auditory and tactile engagement at deck level to support imaginative and sensory play.
- **ADA Driver Panel (Ground-Mounted):** Ground-accessible interactive panel providing inclusive play opportunities for users who remain at grade level.
- **Transfer Station with Step:** Accessible entry point allowing users to transfer onto the play structure in compliance with ADA accessibility guidelines.
- **NUVO™ Swirl Roof:** Overhead canopy element providing shade and visual identity while enhancing the thematic character of the structure.

Gas Station Play Panels (2 locations): Ground-level dramatic play elements positioned adjacent to the turf area to support role-play, social interaction, and inclusive play.

3.5" Arch Swing Set with (2) Belt Seat: Independent swing structure providing traditional swinging motion to support vestibular development, balance, and gross-motor activity.

According to the manufacturer's configuration, the play area provides:

– Multiple elevated play activities with varied access routes

– Multiple ground-level interactive play components

– Combination of physical, sensory, and imaginative play experiences

– Inclusive access via transfer station and ground-level panels

PROPOSED SITE LEGEND

- FULL REPLACEMENT OF EX. ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW GAGA PIT / CONC. PAD - FINAL LOCATION OF EX. GAGA PIT - POST CONSTRUCTION
- TEMPORARY RELOCATED GAGA PIT
- NEW BASKETBALL COURT

GENERAL LAYOUT NOTES

1. ALL CONTRACTORS BUT NOT LIMITED TO THE EXCAVATING CONTRACTOR OR CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTATIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS OR UTILITY COMPANIES OR AGENCIES WHOMEVER HAS JURISDICTION SO NOT TO CAUSE DAMAGE.
2. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, OIL, GASOLINE, ETC., BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS, SHALL BE RECONSTRUCTED TO IT'S ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. THIS RECONSTRUCTION AND REPAIR SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BEAR ALL EXPENSES TO REMOVE, RELOCATE AND OR MODIFY ALL UTILITIES, PRIVATE, PUBLIC, UNLESS NOTED OTHERWISE ON PLANS. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT TO WHO IS RESPONSIBLE TO REMOVE, RELOCATE AND OR MODIFY SUCH UTILITIES EXISTING OR PROPOSED. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IF ANY FUTURE UTILITIES ARE PLANNED AND HOW IT MAY EFFECT THIS PROJECT AND ITS OWNER AS TO THEIR RESPONSIBILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS INCLUDES THE SUBMITTAL FOR LAND DISTURBANCE AND THE SUBMITTAL FOR SOIL EROSION AND SEDIMENT CONTROL IF REQUIRED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 800-382-5544 BEFORE DIGGING.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAY, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.
10. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND / OR ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS.
11. ALL LISTED SQ. FT TOTALS ARE ESTIMATES AND NOT FINAL – GIVEN TOTALS SHOULD BE CONFIRMED ON SITE PRIOR TO BIDDING AND START OF CONSTRUCTION

SITE LAYOUT KEYNOTES

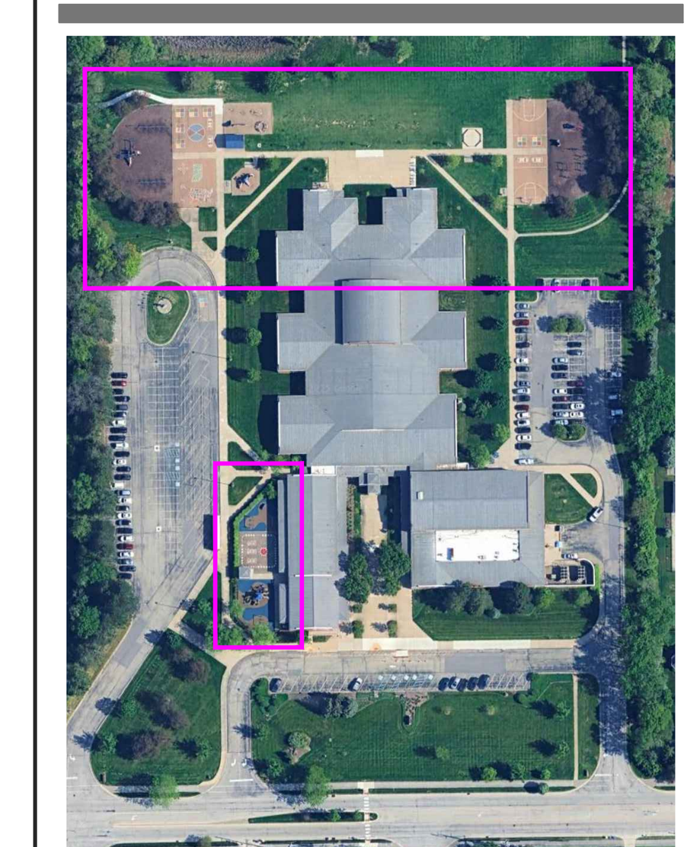
1. CONCRETE PAVING - SEE CIVIL DRAWINGS GD1.0-GD1.3 , AND G1.0-G1.3 FOR FURTHER INFORMATION
2. ALL EX. SITE LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE - SEE SITE LANDSCAPING PLANS FOR FURTHER INFORMATION
3. EX. SITE LIGHTING TO BE REMOVED IN NOTED LOCATIONS - PROVIDE NEW LIGHT POLES BASES, POLE AND HEAD WHERE NOTED ON ELECTRICAL DRAWINGS
4. EX. KINDERGARTEN PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 1 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - SEE DETAILS 12,13,14,15 SRE-L4.01.
5. FOLLOWING EXISTING ASPHALT REMOVAL. RE-GRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. PROVIDE PRICING FOR SEALCOATING APPLICATION (1 YEAR) AND PVMT MARKINGS AFTER INSTALL - SEE DETAILS 9,10,11,16 SRE-L4.01
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 SRE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING BRAND AND STYLE FOUND ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR 3-5 AGE GROUP KIDS TYP. SEE DETAIL 17 SRE-L4.01.
8. KINDERGARTEN HARD PAVEMENT GAME AREA : SEE CIVIL DRAWINGS FOR FURTHER INFORMATION PERTAINING TO DEMO AND PUT BACK
9. GAGA PIT: EX. PLAY STRUCTURE FOUND ON SITE. POUR NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE / SUB-BASE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH. SECURE NEW GAGA PIT TO NEW CONC. PAD PER MANUF. WRITTEN RECOMMENDATIONS
10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 SREL4.01
11. INSTALL NEW SYNTHETIC TURF SYNPRO 65 OR APPROVED EQUAL WITH THATCH LAYER AND INFILL SYSTEM ON AGGREGATE OR BUFFING BASE COURSE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET. INSTALL TURF IN COLOR AS SELECTED BY ARCHITECT (MEDIUM GREEN). SEE DETAIL 2 SRE-L4.01.
12. INSTALL NEW 4' HIGH CHAIN-LINK FENCING WITH (2) DOUBLE WIDE MAN GATES IN EARLY LEARNING CENTER IN LOCATIONS SHOWN. SEE DETAILS 12,13,14,15 SRE-L4.01.
13. RELOCATED GAGA PIT (IN LAWN): RELOCATE BACK TO EX. LOCATION PRIOR TO THE COMPLETION OF CONSTRUCITON - SEE PLAN NOTE #9 SRE-L1.10
14. U SHAPED BIKE RACK: PER DETAIL O G4.2
15. NEW BENCH SEATING : DEMO EX. BENCHES - PROVIDE NEW BENCHES MATCHING CCS STANDARDS (BASIS-OF-DESIGN; SITESCAPES CITYVIEW BENCH IN QUANTITIES AND SIZES AS SHOWN IN PLANS SECURE NEW BENCH TO NEW 4" THICK REINFORCED CONC. BASE OVER 6" COMPACTED 1" DIA. AGGREGATE PER MANUFACTURERS RECOMMENDATIONS. EX. CONC. PAVING TO REMAIN - PROTECT DURING CONSTRUCTION - SEE DETAIL #8 SRE-L4.00
16. NEW ASPHALT PAVING: INSTALL NEW 6" DEEP LAYER COMPACTED 1" DIA. AGGREGATE SUB-BASE , 3" INTERMEDIATE ASPHALTIC BASE WITH 2" SURFACE COURSE - PROVIDE POSITIVE SURFACE DRAINAGE TO EX. STORM DRAINS TYP. NO RAP AGGREGATE TO BE USED IN SURFACE ASPHALT LAYER. PROVIDE PRICING FOR SEALCOATING APPLICATION (1 YEAR) AFTER INSTALL - SEE DETAILS 9,10,11,16 SRE-L4.01.
17. EX. LAWN TO REMAIN - PROTECT DURING CONSTRUCTION
18. NEW 20' SHADE CANOPIES (3) BY LANDSCAPE STRUCTURES - BASIS OF DESIGN SEE PROJECT MANUAL FOR APPROVED MANUFACTURES - NO OTHER MANUF. WILL BE CONSIDERED TYP. INSTALL PER MANUF. WRITTEN RECOMMENDATION. PROVIDE FOOTINGS PER MANUF. LOCAL AND STATE GUIDELINES, EXISTING CONCRETE PAVING WITHIN HIGHLIGHTED (PURPLE) SPACE IS TO BE FULLY REPLACED - PROVIDE NEW FOOTINGS FOR SHADE STRUCTURE PER LOCAL CODES AND PER MANUF. WRITTEN RECOMMENDATIONS - CONTRACTOR IS TO OBTAIN STAMPED DRAWINGS FROM MANFU. FOR ALL CANOPY STRUCTURES AND FOOTING PRIOR TO THE START OF CONSTRUCTION TYP.
19. CONCRETE STOOP - SEE ARCHITECTURAL PLANS
20. BASKETBALL MARKINGS SHALL MEET NFHS STANDARD DIMENSIONS .REPAINT LINES AFTER SEALCOATING OPERATIONS THE FOLLOWING YEAR - SEE DETAIL 6 SRE-L4.00
21. PAINT GAME MARKINGS - SEE PLAN FOR LAYOUTS NOT PROVIDED WITHIN DETAILS - SEE DETAILS 1,4,5 SREL4.00 AND 18,19,20 SREL4.01
22. INSTALL PLAYWORLD FREESTANDING PLAY EQUIPMENT IN LOCATIONS NOTED ON PLAN. INSTALL PER MANUF. WRITTEN DIRECTIONS SEE PLANS FOR PLAY EQUIPMENT NAMES AND LAYOUT TYP
23. PAINT TOT TRACK ON NEW CONCRETE PAVING. SEE DETAIL 7 SRE-L4.00
24. FENCE MOUNTED COMMUNICATION BOARD (DOUBLE SIDED): SECURE BOARD TO NEW CHAIN-LINK FENCING PER SIGN MANUF. WRITTEN RECOMMENDATIONS
25. SEED DISTURBED LAWN AREAS DISTURBED DURING CONSTRUCTION REFER TO LANDSCAPE PLANS L1.0-L1.3
26. NEW CONC. PAVING - SEE CIVIL DRAWINGS GD1.2,GD1.3 AND LAYOUT PLANS G1.2, G1.3 FOR FURTHER INFORMATION SEE DETAILS 4,5,6 SRE-L4.01 FOR CIVIL DETAIL CALL OUTS.
27. POUR THICKENED CONCRETE EDGE FOR NAILER BOARD ATTACHMENT FOR NEW SYNTHETIC TURF INSTALLATION. SEE DETAIL 7 SRE-L4.01.
28. BOLT 2X4" COMPOSITE NAILER BOARD FOR SYNTHETIC TURF INSTALLATION TO EXISTING BUILDING FOUNDATION. GRIND AND SMOOTH ANY INPERFECTIONS FROM FOUNDATION TO ALLOW NAILER BOARD INSTALLATION.
29. EXISTING TO NEW CONCRETE TRANSITION - SEE DETAIL F SRE-G4.1
30. PROTECT EXISTING CURB AND REPAIR ANY CONSTRUCTION DAMAGE.
31. NOT USED
32. NOT USED
33. REMOVED EX. SEESAW IN IT'S ENTIRETY PRIOR TO INSTALLING NEW EQUIP. INSTALL NEW SYNTHETIC TURF AND NEW PLAYWORLD / BERLINGER FREESTANDING PLAY IN LOCATIONS SHOWN - SEE DETAIL 2 SRE-L4.1 INSTALL AND SECURE TO EX. SURFACE PER TURF MAUF. RECOMMENDATIONS
34. TRANSPLANTED TREE - SEE DETAIL #9 SRE-L4.00
35. PROVIDE NEW ADA SWINGS (1)- MATCH EX. FOUND ON SITE INSTALL PER EX. SWING MANUF. WRITTEN RECOMMENDATIONS
36. EXISTING PIP PLAYGROUND SURFACING / PLAY EQUIP. TO REMAIN NOT MARKED FORE REMOVAL - PROTECT DURING CONSTRUCTION TYP

SMOKY ROW ELEMENTARY SCHOOL BUILDING / PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

811 Know what's below. Call before you dig.
Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. Call 48 hours or 2 working days before you dig. It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

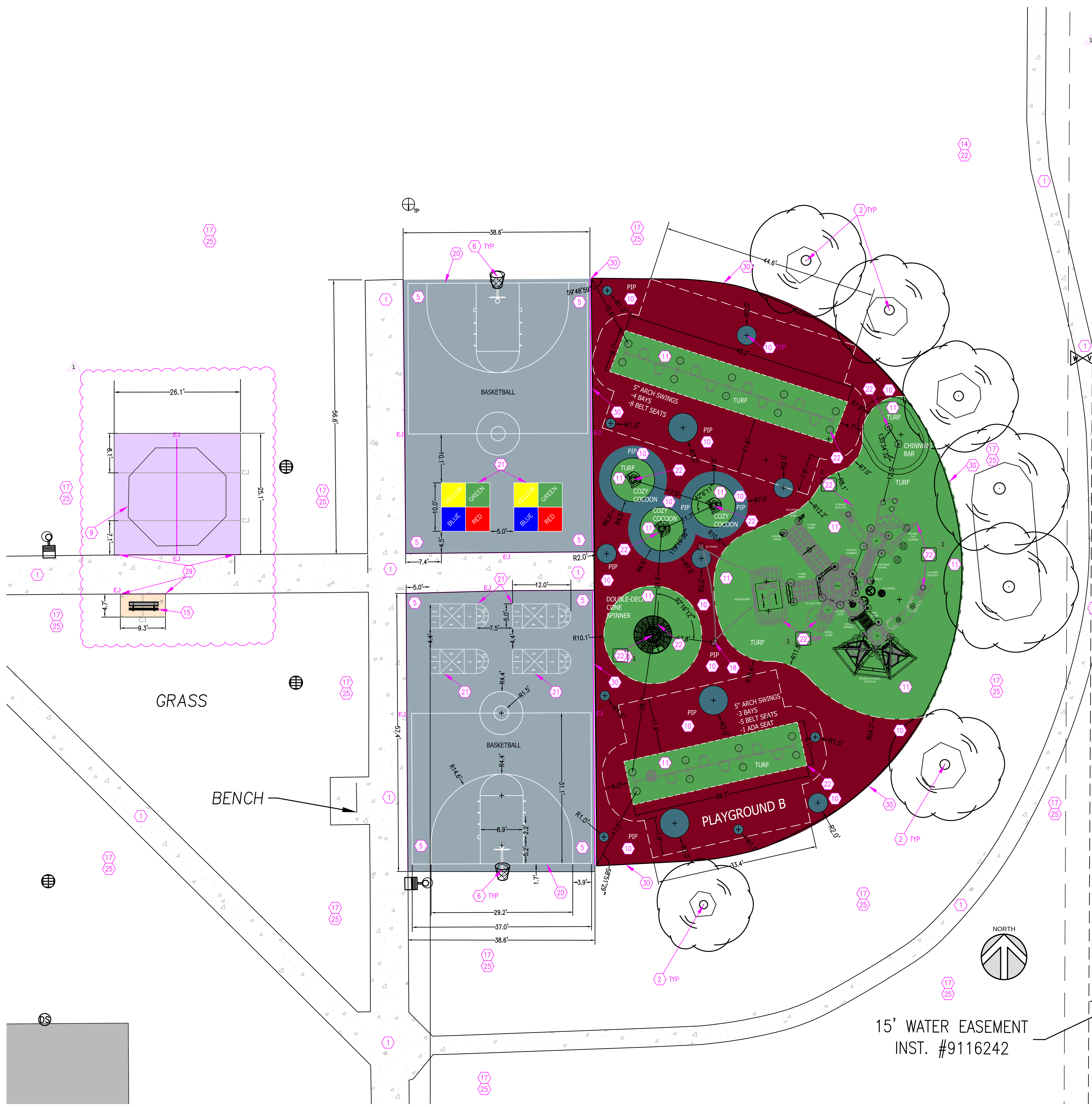
LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

ENLARGED SITE PLAN
ELC PLAYGROUND

SREL1.20

Drawing Path: J:\222033.00\Production\SHA\CD\SRE\vet\BASE - ADD 1.dwg
Plotted By: ebrown Time of Plot: 12/16/25 - 12:31pm Last Edited: 12/16/25 - 12:16pm

SMOKY ROW ELEMENTARY SCHOOL BUILDING / PLAYGROUND RENOVATION



ENLARGED SITE LAYOUT PLAN: SRE

SCALE: 1" = 10'-0"

EQUIPMENT BREAKDOWN:

AREA B

The customer asked that equipment be specified within Area B that does not require transfer from a wheel chair. Note, Fanning Howey has selected a post and platform style structure, allowing wheelchair access to the AeroGlider - creating a space where all abilities are able to play in challenging ways on the same structure. Modern climbers and net climbers were chosen giving the proposed structure a modern look.

Large Integrated Play Structure (main composite structure shown in turf):

- **AeroGlider –** Suspended/transfer glider element providing dynamic movement play and coordination.
- **Scavenger Hunt Panel –** Interactive activity panel supporting cognitive/visual engagement and group play.
- **Steering Wheel –** Dramatic-play steering element for imaginative and social play.
- **Tic-Tac-Toe –** Ground/deck interactive game panel for inclusive cognitive play.
- **Kaleido Climber –** Climbing element encouraging upper-body strength, coordination, and varied access routes.
- **Access Gate –** Controlled entry element into the structure's internal circulation path.
- **Accessible Stairs –** Stair access component to reach elevated portions of the structure.
- **ADA Stair –** Accessible stair/transfer component called out separately on plan (inclusive access route).
- **12" Rise Ramp –** Ramp segment providing accessible circulation with indicated rise.
- **6" Rise Ramp –** Additional ramp segment providing accessible circulation with indicated rise.
- **Spiral Slide –** Spiral slide exit element providing active descent from elevated play area.
- **Dynamic Descent (2 locations) –** Labeled descent elements providing slide/exit points on both sides of the structure.
- **Round the Corner –** Curved path/feature element encouraging circulation and movement through the structure.
- **Bells –** Interactive musical/sensory play element.
- **Steppers –** Stepping pod elements promoting balance, coordination, and sequencing.
- **Disco Spinner –** Rotating play component integrated into/adjacent to the structure for vestibular play.
- **Double Dynamic Terrace –** Elevated terrace platform element (as labeled) supporting group gathering and circulation on the structure.

Stand-Alone Equipment (outside the large structure):

Cozy Cocoon® (3 total) – Quiet/sensory retreat pods providing calming space and inclusive programming opportunities.

Double-Decker Cone Spinner – Standalone rotating spinner providing vestibular stimulation and dynamic movement play.

Chinning Bar – Overhead bar element supporting upper-body engagement (hanging/chinning exercise play).

Swing Sets (as labeled on plan):

5' Arch Swings – 4 Bays – (8) Belt Seats

5' Arch Swings – 3 Bays – (5) Belt Seats + (1) ADA Seat

PROPOSED SITE LEGEND

- FULL REPLACEMENT OF EX. ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW GAGA PIT / CONC. PAD - FINAL LOCATION OF EX. GAGA PIT - POST CONSTRUCTION
- TEMPORARY RELOCATED GAGA PIT
- NEW BASKETBALL COURT

SITE LAYOUT KEYNOTES

1. CONCRETE PAVING - SEE CIVIL DRAWINGS GD1.0-GD1.3 , AND G1.0-G1.3 FOR FURTHER INFORMATION
2. ALL EX. SITE LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE - SEE SITE LANDSCAPING PLANS FOR FURTHER INFORMATION
3. EX. SITE LIGHTING TO BE REMOVED IN NOTED LOCATIONS - PROVIDE NEW LIGHT POLES BASES, POLE AND HEAD WHERE NOTED ON ELECTRICAL DRAWINGS
4. EX. KINDERGARTEN PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 1 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - SEE DETAILS 12,13,14,15 SRE-L4.01.
5. FOLLOWING EXISTING ASPHALT REMOVAL. RE-GRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. PROVIDE PRICING FOR SEALCOATING APPLICATION (1 YEAR) AND PVMT MARKINGS AFTER INSTALL - SEE DETAILS 9,10,11,16 SRE-L4.01
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 SRE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING BRAND AND STYLE FOUND ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR 3-5 AGE GROUP KIDS TYP. SEE DETAIL 17 SRE-L4.01.
8. KINDERGARTEN HARD PAVEMENT GAME AREA : SEE CIVIL DRAWINGS FOR FURTHER INFORMATION PERTAINING TO DEMO AND PUT BACK
9. GAGA PIT: EX. PLAY STRUCTURE FOUND ON SITE. POUR NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE / SUB-BASE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH. SECURE NEW GAGA PIT TO NEW CONC. PAD PER MANUF. WRITTEN RECOMMENDATIONS
10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 SREL4.01
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12. INSTALL NEW 4' HIGH CHAIN-LINK FENCING WITH (2) DOUBLE WIDE MAN GATES IN EARLY LEARNING CENTER IN LOCATIONS SHOWN. SEE DETAILS 12,13,14,15 SRE-L4.01.
13. RELOCATED GAGA PIT (IN LAWN): RELOCATE BACK TO EX. LOCATION PRIOR TO THE COMPLETION OF CONSTRUCITON - SEE PLAN NOTE #9 SRE-L1.10
14. U SHAPED BIKE RACK: PER DETAIL O G4.2
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GENERAL LAYOUT NOTES

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3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, OIL, GASOLINE, ETC., BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS, SHALL BE RECONSTRUCTED TO IT'S ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. THIS RECONSTRUCTION AND REPAIR SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BEAR ALL EXPENSES TO REMOVE, RELOCATE AND OR MODIFY ALL UTILITIES, PRIVATE, PUBLIC, UNLESS NOTED OTHERWISE ON PLANS. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT TO WHO IS RESPONSIBLE TO REMOVE, RELOCATE AND OR MODIFY SUCH UTILITIES EXISTING OR PROPOSED. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IF ANY FUTURE UTILITIES ARE PLANNED AND HOW IT MAY EFFECT THIS PROJECT AND ITS OWNER AS TO THEIR RESPONSIBILITIES.
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8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 800-382-5544 BEFORE DIGGING.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAY, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.
10. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND / OR ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS.
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Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

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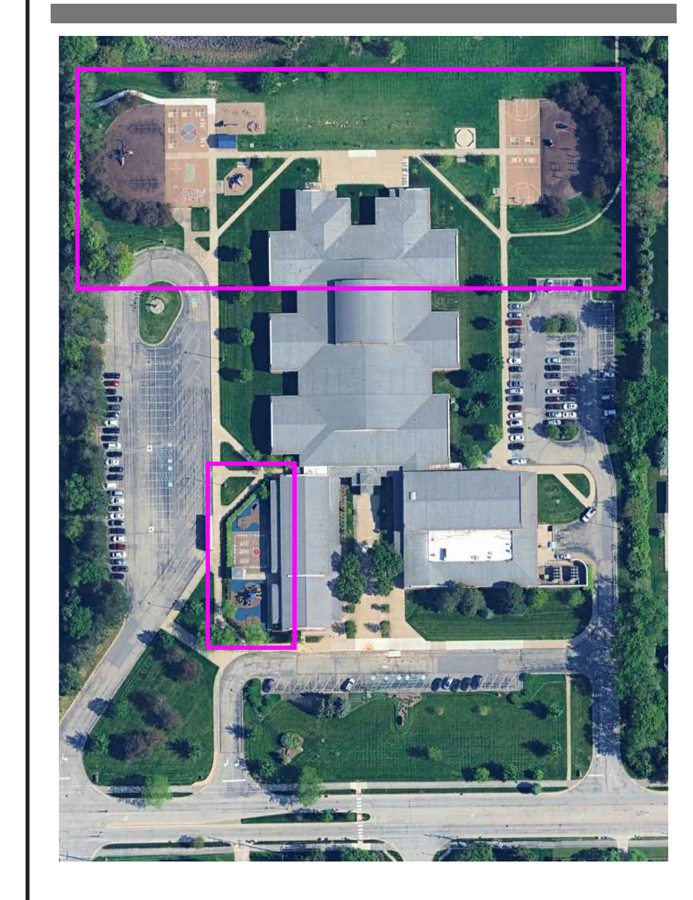
CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

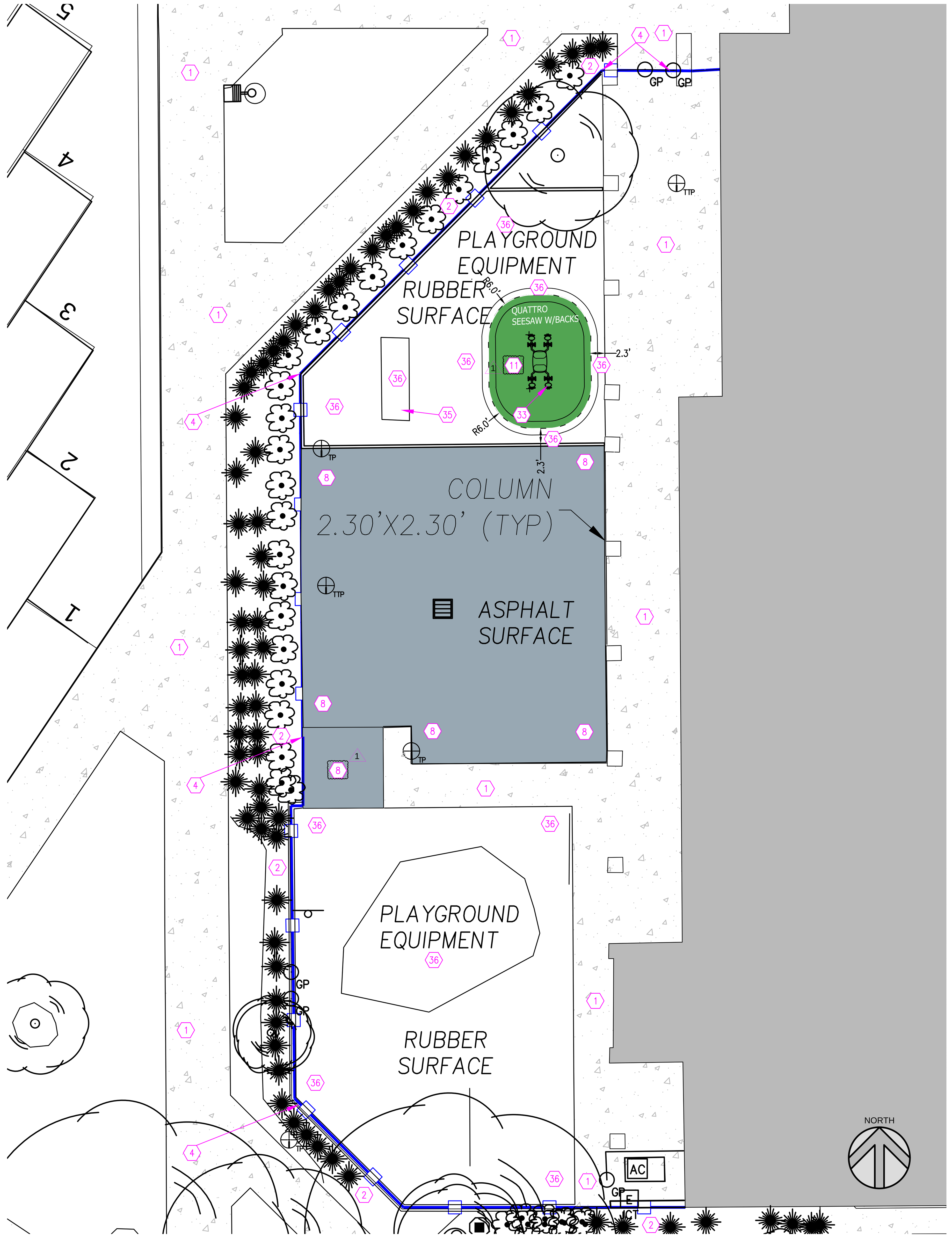
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KS
DRAWN BY: EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED SITE PLAN PLAYGROUND B.

SREL1.30



ENLARGED SITE LAYOUT PLAN: SRE

SCALE: 1" = 10'-0"

SITE LAYOUT KEYNOTES

1. CONCRETE PAVING - SEE CIVIL DRAWINGS GD1.0-GD1.3 , AND G1.0-G1.3 FOR FURTHER INFORMATION
2. ALL EX. SITE LANDSCAPING TO REMAIN UNLESS NOTED OTHERWISE - SEE SITE LANDSCAPING PLANS FOR FURTHER INFORMATION
3. EX. SITE LIGHTING TO BE REMOVED IN NOTED LOCATIONS - PROVIDE NEW LIGHT POLES BASES, POLE AND HEAD WHERE NOTED ON ELECTRICAL DRAWINGS
4. EX. KINDERGARTEN PLAYGROUND FENCING AND GATE (SINGLE MAN GATE 1 TOTAL) REPLACEMENT: SLEEVE EX. POST AND PROVIDE NEW CHAIN-LINK FABRIC, HARDWARE AND ALL ACCESSORIES NEEDED FOR PROPER INSTALL - MATCH EX. STYLE AND COLOR - SEE DETAILS 12,13,14,15 SRE-L4.01.
5. FOLLOWING EXISTING ASPHALT REMOVAL. RE-GRADE EXISTING AGGREGATE BASE COURSE TO REMAIN. PROVIDE ADDITIONAL COMPACTED AGGREGATE TO MAINTAIN 6" MIN. COMPACTED AGGREGATE BASE- PROOF ROLL - PROVIDE NEW 3" INTERMEDIATE COURSE , WITH 2" SURFACE COURSE. FINAL SURFACE TO BE PAVED TO PROVIDE POSITIVE DRAINAGE. NO FERROUS MATERIAL TO BE USED IN ASPHALT SURFACE COURSE AND RAP ACCEPTABLE FOR INTERMEDIATE COURSE BASE ONLY. NEW PAVEMENT MARKINGS TO MATCH EX. FOUND ON SITE - SITE VERIFY AND DOCUMENT EX. CONDITIONS/LAYOUT PRIOR TO BIDDING AND START OF CONSTRUCTION TYP. PROVIDE PRICING FOR SEALCOATING APPLICATION (1 YEAR) AND PVMT MARKINGS AFTER INSTALL - SEE DETAILS 9,10,11,16 SRE-L4.01
6. EX. BASKETBALL GOALS TO REMAIN - EX. POST TO REMAIN/PROTECT - REMOVE EX GOALS , STORE/PROTECT DURING CONSTRUCTION AND RE-INSTALL PRIOR TO THE COMPLETION OF CONSTRUCTION TYP. 17 SRE-L4.01
7. NEW GOOSE NECK BASKETBALL GOALS - MATCH EXISTING BRAND AND STYLE FOUND ON SITE - PROVIDE REDUCED HEIGHT HOOPS FOR 3-5 AGE GROUP KIDS TYP. SEE DETAIL 17 SRE-L4.01.
8. KINDERGARTEN HARD PAVEMENT GAME AREA : SEE CIVIL DRAWINGS FOR FURTHER INFORMATION PERTAINING TO DEMO AND PUT BACK
9. GAGA PIT: EX. PLAY STRUCTURE FOUND ON SITE. POUR NEW 4" THICK REINFORCED CONC. PAD WITHIN NOTED AREA OVER 6" COMPACTED 1" DIA. AGGREGATE BASE COURSE / SUB-BASE. USE POLYURETHANE FIBERS WITHIN CONC. MIX IN PLACE OF USING WIRE MESH. SECURE NEW GAGA PIT TO NEW CONC. PAD PER MANUF. WRITTEN RECOMMENDATIONS
10. INSTALL NEW (PROTECHS - BASIS OF DESIGN) ALPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATIONS - PROVIDED PIP SURFACING DEPTHS PER MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE NO MORE THAN 1% SLOPE TO SURFACE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET - SEE SITE CIVIL DRAWINGS FOR FURTHER INFORMATION. INSTALL NEW POURED IN PLACE PLAYGROUND SURFACING PER CCS STANDARDS. INSTALL COLORS AS NOTED ON PLAN (BLUE, RED). PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS - TERRACOTTA / BLACK (50/50MIX) , BLUE/BLACK (50/50MIX) WITHIN NOTED AREAS. SEE DETAILS 3,8,10,16 SREL4.01
11. INSTALL NEW SYNTHETIC TURF SYNPRO 65 OR APPROVED EQUAL WITH THATCH LAYER AND INFILL SYSTEM ON AGGREGATE OR BUFFING BASE COURSE. REGRADE EXISTING SUBGRADE AND INSTALL FLAT PIPE DRAINAGE OVER FILTER FABRIC AT 15' MAX. O.C. AND TIE INTO EXISTING UNDERDRAIN OUTLET. INSTALL TURF IN COLOR AS SELECTED BY ARCHITECT (MEDIUM GREEN). SEE DETAIL 2 SRE-L4.01.
12. (1) INSTALL NEW 4' HIGH CHAIN-LINK FENCING WITH (2) DOUBLE WIDE MAN GATES IN EARLY LEARNING CENTER IN LOCATIONS SHOWN. SEE DETAILS 12,13,14,15 SRE-L4.01.
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PROPOSED SITE LEGEND

- FULL REPLACEMENT OF EX. ASPHALT PAVEMENT
- NEW CONC. PADS
- NEW (PIP) PLAYGROUND SURFACING
- NEW (PIP) PLAYGROUND SURFACING
- NEW (TURF) PLAYGROUND SURFACING
- NEW GAGA PIT / CONC. PAD - FINAL LOCATION OF EX. GAGA PIT - POST CONSTRUCTION
- TEMPORARY RELOCATED GAGA PIT
- NEW BASKETBALL COURT

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It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

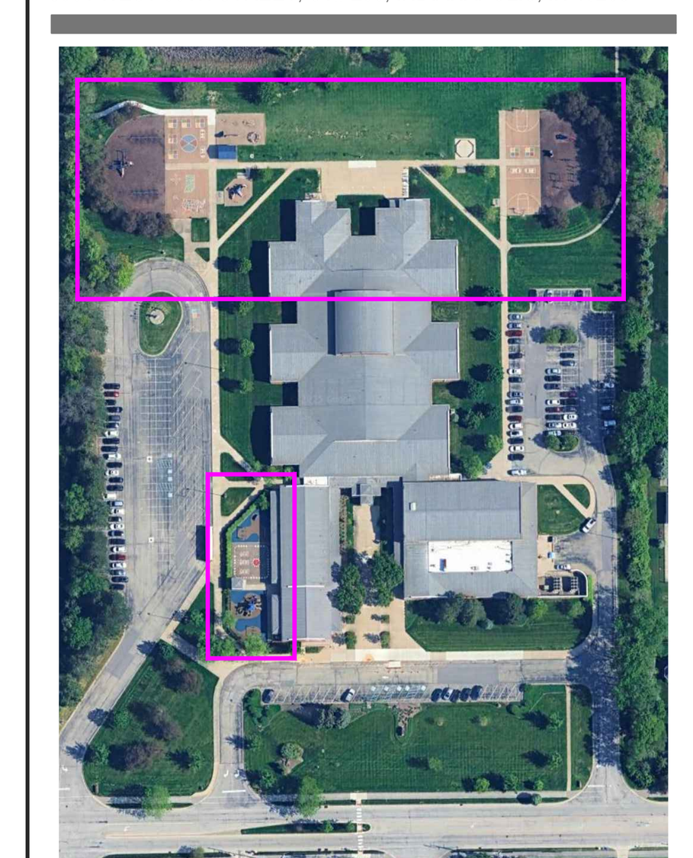
LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

SMOKY ROW ELEMENTARY SCHOOL BUILDING / PLAYGROUND RENOVATION

CARMEL CLAY SCHOOLS
5201 EAST MAIN STREET
CARMEL, IN 46033
317-844-9961

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT
TLF
317-334-1500 TLF-ENGINEERS.COM
3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268



BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

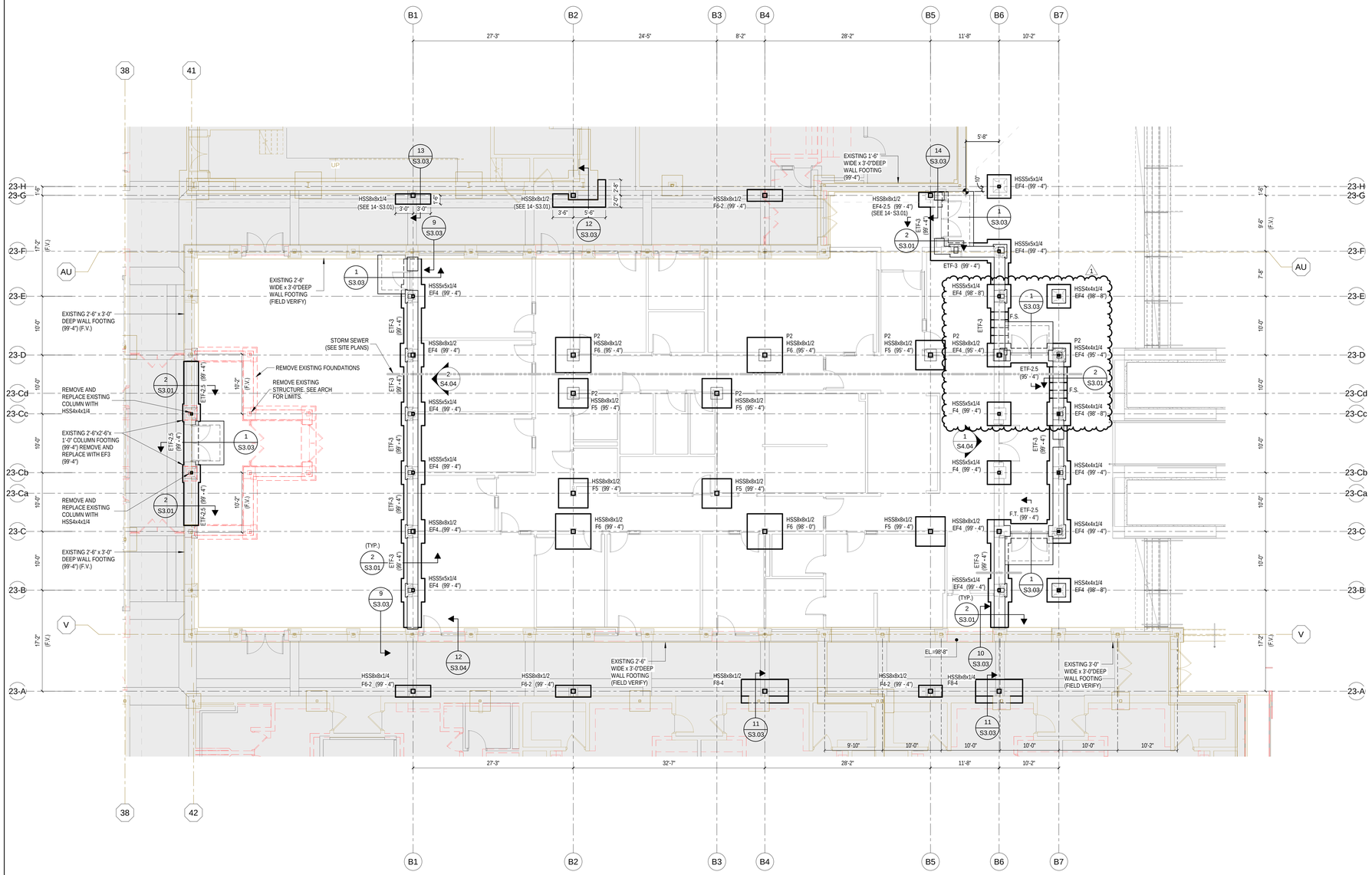
PROJECT MANAGER: KS
DRAWN BY: EB
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12/19/2025

ENLARGED SITE PLAN
KINDERGARTEN PLAYGROUND

SREL1.40

Drawing Path: J:\222033.00\Production\Site\CD\SRE\xrefs\BASE – ADD 1.dwg
Plotted By: ebrown Time of Plot: 12/17/25 – 9:20am Last Edited: 12/16/25 – 12:32pm



UNIT B - FOUNDATION PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (887.92' U.S.G.S.).
2. TOP OF EXISTING FOOTING (T/EXIST. FOOTING) ELEVATION = 99'-4" (U.O.N.).
   TOP OF NEW FOOTING (T/FOOTING) ELEVATION = 99'-4" (U.O.N.).
3. (XXX'-X") INDICATES TOP OF FOOTING ELEVATION.

FOUNDATION PLAN NOTES:

1. SEE SHEET S0.01 FOR GENERAL NOTES.
2. SEE S3.01 THROUGH S3.03 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F"X" OR EXTERIOR FOUNDATION EF"X". SEE FOUNDATION SCHEDULE ON S3.01.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S3.01.
6. PX, INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S3.01.
7. SEE S3.01 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
8. SEE 4-S3.01 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS.
9. SEE 5-S3.01 FOR TYPICAL COLUMN BASE.
10. SEE 3-S3.01 FOR TYPICAL BASE PLATE.
11. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
12. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S3.02 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
13. SEE SLAB AND MASONRY PLANS FOR SLAB INFORMATION. SEE 6-S3.03 FOR TYPICAL SLAB ON GRADE DETAILS.
14. SEE 7-S3.03 FOR SLAB ISOLATIONS.
15. F.T. INDICATES FOOTING TRANSITION. SEE 11-S3.01.
16. F.S. INDICATES STEPPED FOOTING. SEE S3.01 FOR DETAILS
17. LEGEND:

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S3.02 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

SHADED AREA INDICATE EXTENTS OF EXISTING SLAB AND FOUNDATIONS.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

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Phone: 317-334-1500
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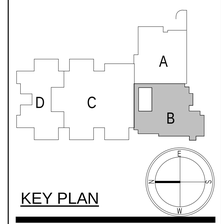
TLF Job No: 2025-030



KEY PLAN

BID SET

PROJECT MANAGER: TAC

DRAWN BY: TLF

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.25

UNIT B - FOUNDATION PLAN

S1.01

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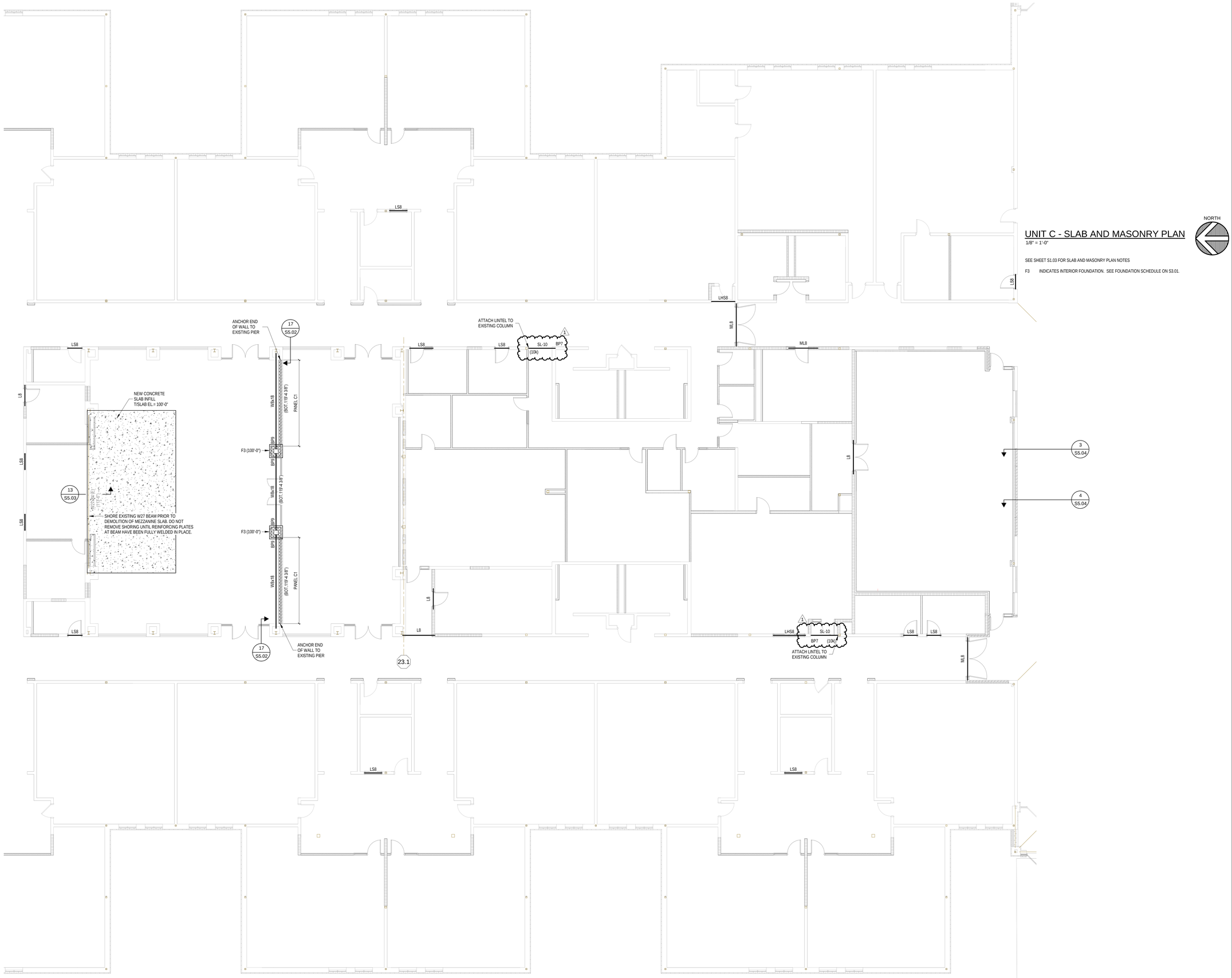

UNIT C - SLAB AND MASONRY PLAN

1/8" = 1'-0"

SEE SHEET S1.03 FOR SLAB AND MASONRY PLAN NOTES

F3 INDICATES INTERIOR FOUNDATION. SEE FOUNDATION SCHEDULE ON S3.01.

NORTH

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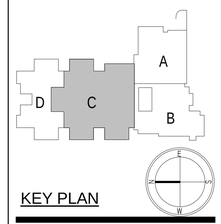


KEY PLAN

BID SET

PROJECT MANAGER: TAC

DRAWN BY: TLF

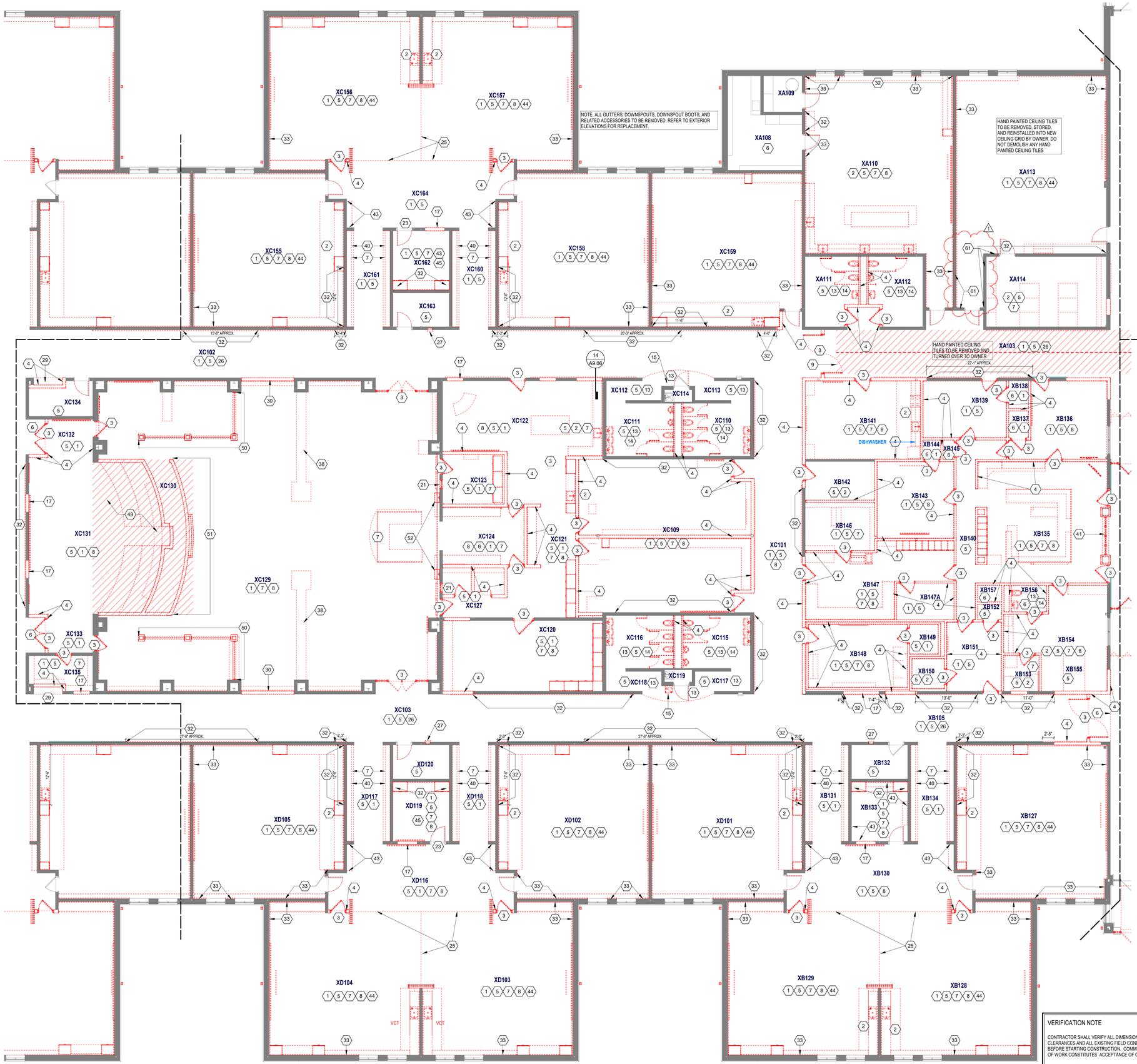
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.25

UNIT C - SLAB AND MASONRY PLAN

S1.04



UNIT C DEMOLITION PLAN

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

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ARCHITECTURAL DEMOLITION GENERAL NOTES

A. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. CONTRACTOR IS TO VERIFY THEIR WORK IN THE FIELD WITH THE DEMOLITION DRAWINGS, NEW CONSTRUCTION DRAWINGS, AND THE EXISTING IN-FIELD CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT.
B. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKINGS, ADHESIVES, BASES, DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS, UNLESS NOTED OTHERWISE.
C. "CEILING" DENOTES CEILING MATERIALS INCLUDING SUSPENSION SYSTEMS ADHESIVE RESIDUES, MOLDINGS, UP TO BUT EXCLUSIVE OF STRUCTURAL MATERIALS.
D. WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" (MIN.) BELOW THE EXISTING FLOOR SLAB (UNLESS SETTING ON SLAB). PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
E. WHEN OPENINGS ARE CUT INTO AN EXISTING WALL, THE OPENING SHALL BE A MINIMUM OF 1'-4" LONGER THAN THE FINISHED OPENING REQUIRED TO ALLOW FOR 8" (MIN) OF NEW CMU TOOTHED-IN AT EDGES.
F. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACE SHALL BE SMOOTH AND FLUSH WITH EXISTING CONDITIONS.
G. MECHANICAL AND ELECTRICAL ITEMS THAT ARE CAPPED AND ABANDONED SHALL BE LOCATED BEHIND FINAL FINISH SYSTEMS.
H. COORDINATE THIS WORK WITH DEMOLITION WORK ON SITE, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL.
I. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.
J. CONTRACTOR TO FIELD VERIFY PORTIONS OR SECTIONS OF EXISTING WALLS TO BE FILLED IN AND SALVAGE NECESSARY MATERIAL
K. MATERIALS OF DEMOLITION SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE DIRECTED BY OWNER.
L. OWNER TO REMOVE EXISTING FURNITURE AND MISCELLANEOUS ITEMS NOT SHOWN AND NOT TO BE DEMOLISHED. CONTRACTOR TO NOTIFY OWNER IN ADVANCE WHEN ITEMS NEED TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR OTHER ITEMS TO BE REMOVED.
M. ITEMS TO BE PATCHED. REMOVE ALL LOOSE OR DAMAGED MATERIAL. REFINISH TO LIKE NEW CONDITION, OR IF CONDITION WARRANTS REPLACE IN ENTIRETY.
N. THE OWNER SHALL RESERVE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.
O. "TURNED OVER TO THE OWNER" DENOTES: 1) TAG AND IDENTIFY ITEMS; 2) STORE IN AN ORDERLY FASHION IN A LOCATION DESIGNATED BY THE OWNER.
P. REMOVE EXISTING AED CABINET AND RELOCATE TO NEW CONSTRUCTION, VERIFY LOCATION WITH OWNER.

DEMOLITION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 REMOVE EXISTING CARPET FLOOR AND RESILIENT BASE
2 REMOVE EXISTING VCT FLOOR AND RESILIENT BASE
3 REMOVE EXISTING DOOR AND FRAME
4 REMOVE EXISTING MASONRY WALL
5 REMOVE EXISTING ACT CEILING
6 REMOVE EXISTING GWB CEILING/BULKHEAD AND FRAMING.
7 REMOVE EXISTING CASEWORK AS SHOWN
8 REMOVE EXISTING EQUIPMENT AS SHOWN. PATCH AND REPAIR ANY DAMAGED EXPOSED SURFACES AS REQUIRED.
9 SAWCUT AND REMOVE CONCRETE SLAB AS REQUIRED FOR UNDERSLAB PLUMBING WORK.
10 REMOVE PORCELAIN TILE FLOOR AND BASE
11 REMOVE RECESSED FLOOR MAT AND INFILL RECESS WITH CONCRETE FLOOR PATCH TO BE LEVEL WITH ADJACENT SLAB
12 REMOVE EXISTING STOREFRONT WINDOW, BULKHEAD AND MASONRY WALL BELOW
13 REMOVE ALL CMT FLOOR AND BASE, AND ALL CERAMIC WALL TILE.
14 REMOVE ALL FIXTURES, TOILET PARTITIONS, AND RESTROOM ACCESSORIES
15 REMOVE DRINKING FOUNTAIN AND CMT
16 REMOVE RESILIENT SHEET FLOORING
17 PROVIDE NEW OPENING IN MASONRY WALL, SHORE AS REQUIRED FOR LINTEL INSTALLATION
18 REMOVE ALL METAL LOCKERS AND WOOD/CMU/CMT BENCH
19 REMOVE EXISTING STOREFRONT WINDOW, AND MASONRY WALL BELOW
20 REMOVE EIFS WALL/BULKHEAD IN THIS AREA
21 REMOVE INTERIOR WINDOW AND FRAME
22 REMOVE ROOF AND STRUCTURE ABOVE IN THIS AREA. COORDINATE EXTENT OF DEMOLITION WITH NEW STRUCTURAL DRAWINGS
23 REMOVE DOORS, TRANSOM AND HARDWARE. FRAME TO REMAIN
24 REMOVE SIDE FOLDING GATE IN IT'S ENTIRETY. INFILL HOLES IN MASONRY WALLS TO REMAIN WITH BRICK OR CMU TO MATCH EXISTING.
25 REMOVE OPERABLE WALL, TRACK, AND ACCESSORIES. REMOVE STEEL BEAM AND ANY COLUMNS SUPPORTING ONLY OPERABLE WALL BEAMS.
26 REMOVE ALL TACKABLE WALL SURFACES, WOOD TRIM, AND MASTIC FROM ALL CORRIDOR WALLS. REMOVE MASTIC COMPLETE AS REQUIRED VIA SCRAPING OR MECHANICAL MEANS. WALLS ARE CONCRETE MASONRY UNITS U.N.O.
27 REMOVE FIRE EXTINGUISHER CABINET AND INFILL MASONRY OPENING
28 DEMOLISH AND REPLACE EXISTING DOCK SLAB. SEE STRUCTURAL DRAWINGS.
29 REMOVE EXISTING DISPLAY CASE
30 REMOVE MASONRY WALL AND STOREFRONT WINDOW FRAME ABOVE
31 REMOVE GWB AND METAL STUD WALL
32 EQUIPMENT DEMOLITION TO INCLUDE REMOVAL OF ALL ADHESIVES AND MECHANICAL FASTENERS; INFILL HOLES IN CONCRETE MASONRY UNITS WITH SEALANT TO CREATE FINISHED APPEARANCE - NO NEW EQUIPMENT TO BE INSTALLED IN THIS LOCATION
33 EQUIPMENT DEMOLITION TO INCLUDE REMOVAL OF ALL TACKABLE WALL SURFACE ON FULL LENGTH OF INDICATED WALL; REMOVE ADHESIVES AND MECHANICAL FASTENERS; INFILL HOLES IN CONCRETE MASONRY UNITS WITH SEALANT TO CREATE FINISHED APPEARANCE - WHERE NEW DISPLAY BOARDS ARE NOT INDICATED, REFER TO A7 PLANS
34 REMOVE VINYL WALLCOVERING ON INDICATED WALL(S); WALL CONSTRUCTION IS GWB ON CMU. REPAIR GWB WALL WHERE VINYL-FACED TACKABLE SURFACE/EQUIPMENT WAS REMOVED AND PREPARE FOR NEW VINYL WALLCOVERING INSTALLATION.
36 REMOVE QUARRY TILE FLOOR AND BASE AND SETTING BED. INFILL SLAB RECESS WITH NEW CONCRETE SLAB, SLOPE TO DRAINS AS REQUIRED.
37 REMOVE CONCRETE TOPPING SLAB AND INSULATION FROM COOLER/FREEZER AREA. INFILL SLAB RECESS WITH NEW CONCRETE SLAB AT 8" BELOW FINISHED FLOOR. VERIFY WITH COOLER/FREEZER MANUF.
38 SAWCUT AND REMOVE CONCRETE SLAB AS REQUIRED FOR NEW FOUNDATION WORK. PATCH CONCRETE SLAB.
39 ACID WASH EXISTING BRICK
40 DEMO BULKHEAD AND REPAIR WALL AS REQUIRED
41 REMOVE EXISTING HM WINDOW, BULKHEAD ABOVE AND MASONRY WALL BELOW
42 DEMOLISH AND REMOVE EXISTING RAMP AND PORTION OF STAIRS INDICATED ALONG WITH ALL ASSOCIATED RAILINGS. PROTECT EXISTING ADJACENT SURFACES TO REMAIN. PREP FOR NEW CONSTRUCTION
43 DEMOLISH AND REMOVE ADJUSTABLE SHELVING AND UPRIGHTS. FILL HOLES AND REPAIR WALLS AS REQUIRED.
44 DEMOLISH AND REMOVE BULKHEAD ABOVE CASEWORK, TYPICAL IN ROOMS INDICATED
45 REPAIR ALL CMU WALLS WHERE ADJUSTABLE SHELVING UPRIGHTS WERE PREVIOUSLY REMOVED
46 DEMOLISH AND REMOVE EXISTING WALL PADDING
47 CLEAN EXISTING BRICK BASE
48 REPLACE SILL WITH MARBLE TO MATCH EXISTING REMAINING.
49 REMOVE CONCRETE SLAB AND TIERS IN HATCHED AREA IN THEIR ENTIRETY. REFER TO STRUCTURAL FOR NEW SLAB.
50 DEMOLISH AND REMOVE EXISTING PARTITION WALL, COLUMNS AND WINDOWS AS INDICATED. PATCH AND REPAIR SLAB AS REQUIRED.
51 REMOVE EXISTING LOFT IN ITS ENTIRETY INCLUDING WALLS ,STAIRS, RAILING, FRAMING, AND FLOOR.
52 REMOVE GWB AND METAL STUD COLUMNS AND INTERMEDIATE BULKHEADS ABOVE. TOP BULKHEAD TO REMAIN. SEE NEW CONSTRUCTION.
53 REMOVE EXISTING ENTRY CONSTRUCTION IN ITS ENTIRETY, INCLUDING STRUCTURAL STEEL AND FOOTINGS.
54 REMOVE AWNINGS FROM ABOVE DOORS
55 REMOVE RESILIENT NOSINGS AND CARPET TREADS AND RISERS
56 REMOVE AWT PANELS
57 REMOVE RECESSED DRINKING FOUNTAIN. PREP FOR NEW DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.
58 REMOVE STEEL HANDRAILS. PREP FOR NEW ALUMINUM HANDRAILS
59 REMOVE DOCK BUMPERS. PREP FOR NEW BUMPERS.
60 REMOVE EXISTING STAGE CURTAINS. TRACK TO REMAIN.
61 INDICATED WALLS HAVE SAND FILLED CORES

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

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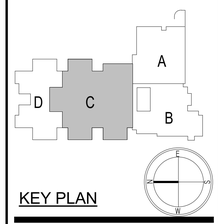
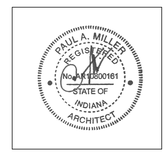
350 E. NEW YORK ST, INDIANAPOLIS IN 46204



KEY PLAN

BID SET



PROJECT MANAGER: KRS

DRAWN BY: BGS

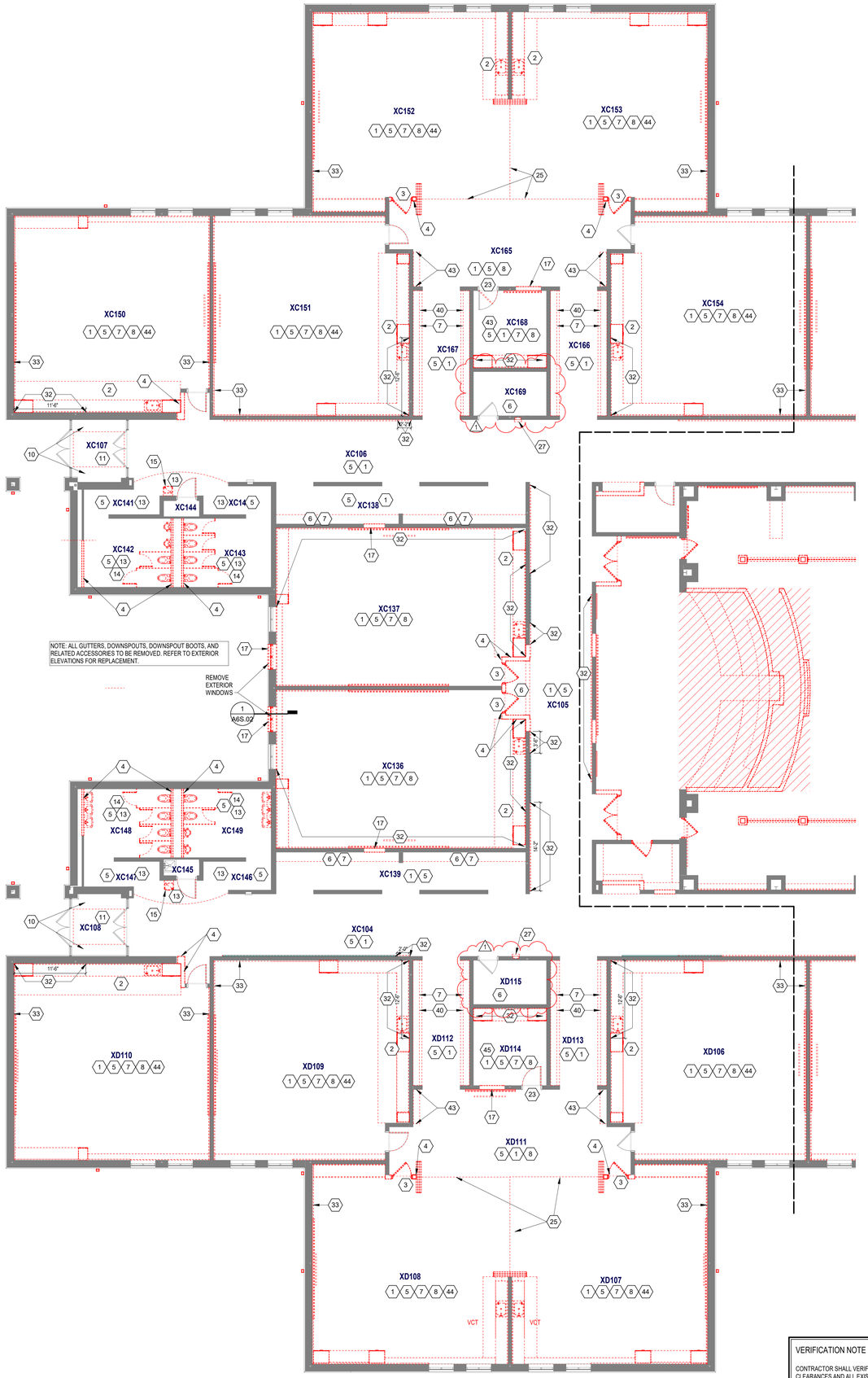
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT C DEMOLITION PLAN

AD0.03



UNIT D DEMOLITION PLAN

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

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ARCHITECTURAL DEMOLITION GENERAL NOTES

A. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. CONTRACTOR IS TO VERIFY THEIR WORK IN THE FIELD WITH THE DEMOLITION DRAWINGS, NEW CONSTRUCTION DRAWINGS, AND THE EXISTING IN-FIELD CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT.
B. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKINGS, ADHESIVES, BASES, DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS, UNLESS NOTED OTHERWISE.
C. "CEILING" DENOTES CEILING MATERIALS INCLUDING SUSPENSION SYSTEMS ADHESIVE RESIDUES, MOLDINGS, UP TO BUT EXCLUSIVE OF STRUCTURAL MATERIALS.
D. WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" (MIN.) BELOW THE EXISTING FLOOR SLAB (UNLESS SETTING ON SLAB). PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
E. WHEN OPENINGS ARE CUT INTO AN EXISTING WALL, THE OPENING SHALL BE A MINIMUM OF 1'-4" LONGER THAN THE FINISHED OPENING REQUIRED TO ALLOW FOR 8" (MIN) OF NEW CMU TOOTHED-IN AT EDGES.
F. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACE SHALL BE SMOOTH AND FLUSH WITH EXISTING CONDITIONS.
G. MECHANICAL AND ELECTRICAL ITEMS THAT ARE CAPPED AND ABANDONED SHALL BE LOCATED BEHIND FINAL FINISH SYSTEMS.
H. COORDINATE THIS WORK WITH DEMOLITION WORK ON SITE, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL.
I. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.
J. CONTRACTOR TO FIELD VERIFY PORTIONS OR SECTIONS OF EXISTING WALLS TO BE FILLED IN AND SALVAGE NECESSARY MATERIAL.
K. MATERIALS OF DEMOLITION SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE DIRECTED BY OWNER.
L. OWNER TO REMOVE EXISTING FURNITURE AND MISCELLANEOUS ITEMS NOT SHOWN AND NOT TO BE DEMOLISHED. CONTRACTOR TO NOTIFY OWNER IN ADVANCE WHEN ITEMS NEED TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR OTHER ITEMS TO BE REMOVED.
M. ITEMS TO BE PATCHED. REMOVE ALL LOOSE OR DAMAGED MATERIAL. REFINISH TO LIKE NEW CONDITION, OR IF CONDITION WARRANTS REPLACE IN ENTIRETY.
N. THE OWNER SHALL RESERVE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.
O. "TURNED OVER TO THE OWNER" DENOTES: 1) TAG AND IDENTIFY ITEMS; 2) STORE IN AN ORDERLY FASHION IN A LOCATION DESIGNATED BY THE OWNER.
P. REMOVE EXISTING AED CABINET AND RELOCATE TO NEW CONSTRUCTION, VERIFY LOCATION WITH OWNER.

DEMOLITION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 REMOVE EXISTING CARPET FLOOR AND RESILIENT BASE
2 REMOVE EXISTING VCT FLOOR AND RESILIENT BASE
3 REMOVE EXISTING DOOR AND FRAME
4 REMOVE EXISTING MASONRY WALL
5 REMOVE EXISTING ACT CEILING
6 REMOVE EXISTING GWB CEILING/BULKHEAD AND FRAMING.
7 REMOVE EXISTING CASEWORK AS SHOWN
8 REMOVE EXISTING EQUIPMENT AS SHOWN. PATCH AND REPAIR ANY DAMAGED EXPOSED SURFACES AS REQUIRED.
9 SAWCUT AND REMOVE CONCRETE SLAB AS REQUIRED FOR UNDERSLAB PLUMBING WORK
10 REMOVE PORCELAIN TILE FLOOR AND BASE
11 REMOVE RECESSED FLOOR MAT AND INFILL RECESS WITH CONCRETE FLOOR PATCH TO BE LEVEL WITH ADJACENT SLAB
12 REMOVE EXISTING STOREFRONT WINDOW, BULKHEAD ABOVE AND MASONRY WALL BELOW
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14 REMOVE ALL FIXTURES, TOILET PARTITIONS, AND RESTROOM ACCESSORIES
15 REMOVE DRINKING FOUNTAIN AND CMT
16 REMOVE RESILIENT SHEET FLOORING
17 PROVIDE NEW OPENING IN MASONRY WALL. SHORE AS REQUIRED FOR LINTEL INSTALLATION
18 REMOVE ALL METAL LOCKERS AND WOOD/CMU/CMT BENCH
19 REMOVE EXISTING STOREFRONT WINDOW, AND MASONRY WALL BELOW
20 REMOVE EIFS WALL/BULKHEAD IN THIS AREA
21 REMOVE INTERIOR WINDOW AND FRAME
22 REMOVE ROOF AND STRUCTURE ABOVE IN THIS AREA. COORDINATE EXTENT OF DEMOLITION WITH NEW STRUCTURAL DRAWINGS
23 REMOVE DOORS, TRANSOM AND HARDWARE. FRAME TO REMAIN
24 REMOVE SIDE FOLDING GATE IN IT'S ENTIRETY. INFILL HOLES IN MASONRY WALLS TO REMAIN WITH BRICK OR CMU TO MATCH EXISTING.
25 REMOVE OPERABLE WALL, TRACK, AND ACCESSORIES. REMOVE STEEL BEAM AND ANY COLUMNS SUPPORTING ONLY OPERABLE WALL BEAMS.
26 REMOVE ALL TACKABLE WALL SURFACES, WOOD TRIM, AND MASTIC FROM ALL CORRIDOR WALLS. REMOVE MASTIC COMPLETE AS REQUIRED VIA SCRAPING OR MECHANICAL MEANS. WALLS ARE CONCRETE MASONRY UNITS U.N.O.
27 REMOVE FIRE EXTINGUISHER CABINET AND INFILL MASONRY OPENING
28 DEMOLISH AND REPLACE EXISTING DOCK SLAB. SEE STRUCTURAL DRAWINGS.
29 REMOVE EXISTING DISPLAY CASE
30 REMOVE MASONRY WALL AND STOREFRONT WINDOW FRAME ABOVE
31 REMOVE GWB AND METAL STUD WALL
32 EQUIPMENT DEMOLITION TO INCLUDE REMOVAL OF ALL ADHESIVES AND MECHANICAL FASTENERS; INFILL HOLES IN CONCRETE MASONRY UNITS WITH SEALANT TO CREATE FINISHED APPEARANCE - NO NEW EQUIPMENT TO BE INSTALLED IN THIS LOCATION
33 EQUIPMENT DEMOLITION TO INCLUDE REMOVAL OF ALL TACKABLE WALL SURFACE ON FULL LENGTH OF INDICATED WALL; REMOVE ADHESIVES AND MECHANICAL FASTENERS; INFILL HOLES IN CONCRETE MASONRY UNITS WITH SEALANT TO CREATE FINISHED APPEARANCE - WHERE NEW DISPLAY BOARDS ARE NOT INDICATED, REFER TO A7 PLANS
34 REMOVE VINYL WALLCOVERING ON INDICATED WALL(S); WALL CONSTRUCTION IS GWB ON CMU. REPAIR GWB WALL WHERE VINYL-FACED TACKABLE SURFACE/EQUIPMENT WAS REMOVED AND PREPARE FOR NEW VINYL WALLCOVERING INSTALLATION.
36 REMOVE QUARRY TILE FLOOR AND BASE AND SETTING BED. INFILL SLAB RECESS WITH NEW CONCRETE SLAB, SLOPE TO DRAINS AS REQUIRED
37 REMOVE CONCRETE TOPPING SLAB AND INSULATION FROM COOLER/FREEZER AREA. INFILL SLAB RECESS WITH NEW CONCRETE SLAB AT 8" BELOW FINISHED FLOOR. VERIFY WITH COOLER/FREEZER MANUF.
38 SAWCUT AND REMOVE CONCRETE SLAB AS REQUIRED FOR NEW FOUNDATION WORK. PATCH CONCRETE SLAB.
39 ACID WASH EXISTING BRICK
40 DEMO BULKHEAD AND REPAIR WALL AS REQUIRED
41 REMOVE EXISTING HM WINDOW, BULKHEAD ABOVE AND MASONRY WALL BELOW
42 DEMOLISH AND REMOVE EXISTING RAMP AND PORTION OF STAIRS INDICATED ALONG WITH ALL ASSOCIATED RAILINGS. PROTECT EXISTING ADJACENT SURFACES TO REMAIN. PREP FOR NEW CONSTRUCTION
43 DEMOLISH AND REMOVE ADJUSTABLE SHELVING AND UPRIGHTS. FILL HOLES AND REPAIR WALLS AS REQUIRED.
44 DEMOLISH AND REMOVE BULKHEAD ABOVE CASEWORK, TYPICAL IN ROOMS INDICATED.
45 REPAIR ALL CMU WALLS WHERE ADJUSTABLE SHELVING UPRIGHTS WERE PREVIOUSLY REMOVED
46 DEMOLISH AND REMOVE EXISTING WALL PADDING
47 CLEAN EXISTING BRICK BASE
48 REPLACE SILL WITH MARBLE TO MATCH EXISTING REMAINING.
49 REMOVE CONCRETE SLAB AND TIERS IN HATCHED AREA IN THEIR ENTIRETY. REFER TO STRUCTURAL FOR NEW SLAB.
50 DEMOLISH AND REMOVE EXISTING PARTITION WALL, COLUMNS AND WINDOWS AS INDICATED. PATCH AND REPAIR SLAB AS REQUIRED.
51 REMOVE EXISTING LOFT IN ITS ENTIRETY INCLUDING WALLS ,STAIRS, RAILING, FRAMING, AND FLOOR.
52 REMOVE GWB AND METAL STUD COLUMNS AND INTERMEDIATE BULKHEADS ABOVE. TOP BULKHEAD TO REMAIN. SEE NEW CONSTRUCTION.
53 REMOVE EXISTING ENTRY CONSTRUCTION IN ITS ENTIRETY, INCLUDING STRUCTURAL STEEL AND FOOTINGS.
54 REMOVE AWNINGS FROM ABOVE DOORS
55 REMOVE RESILIENT NOSINGS AND CARPET TREADS AND RISERS
56 REMOVE AWT PANELS
57 REMOVE RECESSED DRINKING FOUNTAIN. PREP FOR NEW DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.
58 REMOVE STEEL HANDRAILS. PREP FOR NEW ALUMINUM HANDRAILS
59 REMOVE DOCK BUMPERS. PREP FOR NEW BUMPERS.
60 REMOVE EXISTING STAGE CURTAINS, TRACK TO REMAIN.
61 INDICATED WALLS HAVE SAND FILLED CORES

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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CARMEL CLAY SCHOOLS

ARCHITECT

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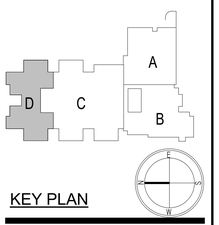


BID SET

PROJECT MANAGER: KRS

DRAWN BY: BGS

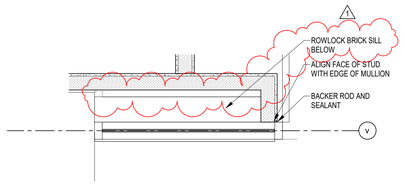
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

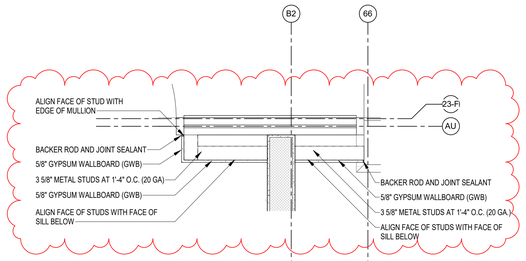
UNIT D DEMOLITION PLAN

AD0.04



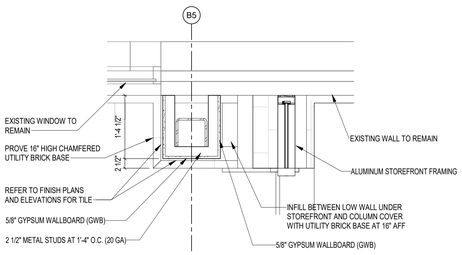
4 204 WINDOW CLOSURE DETAIL

SCALE: 3/4" = 1'-0"



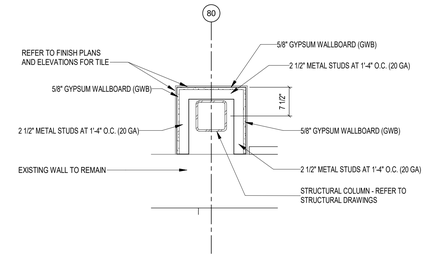
3 213 & C131 WINDOW CLOSURE DETAIL

SCALE: 3/4" = 1'-0"



2 V103 COLUMN DETAIL

SCALE: 3/4" = 1'-0"

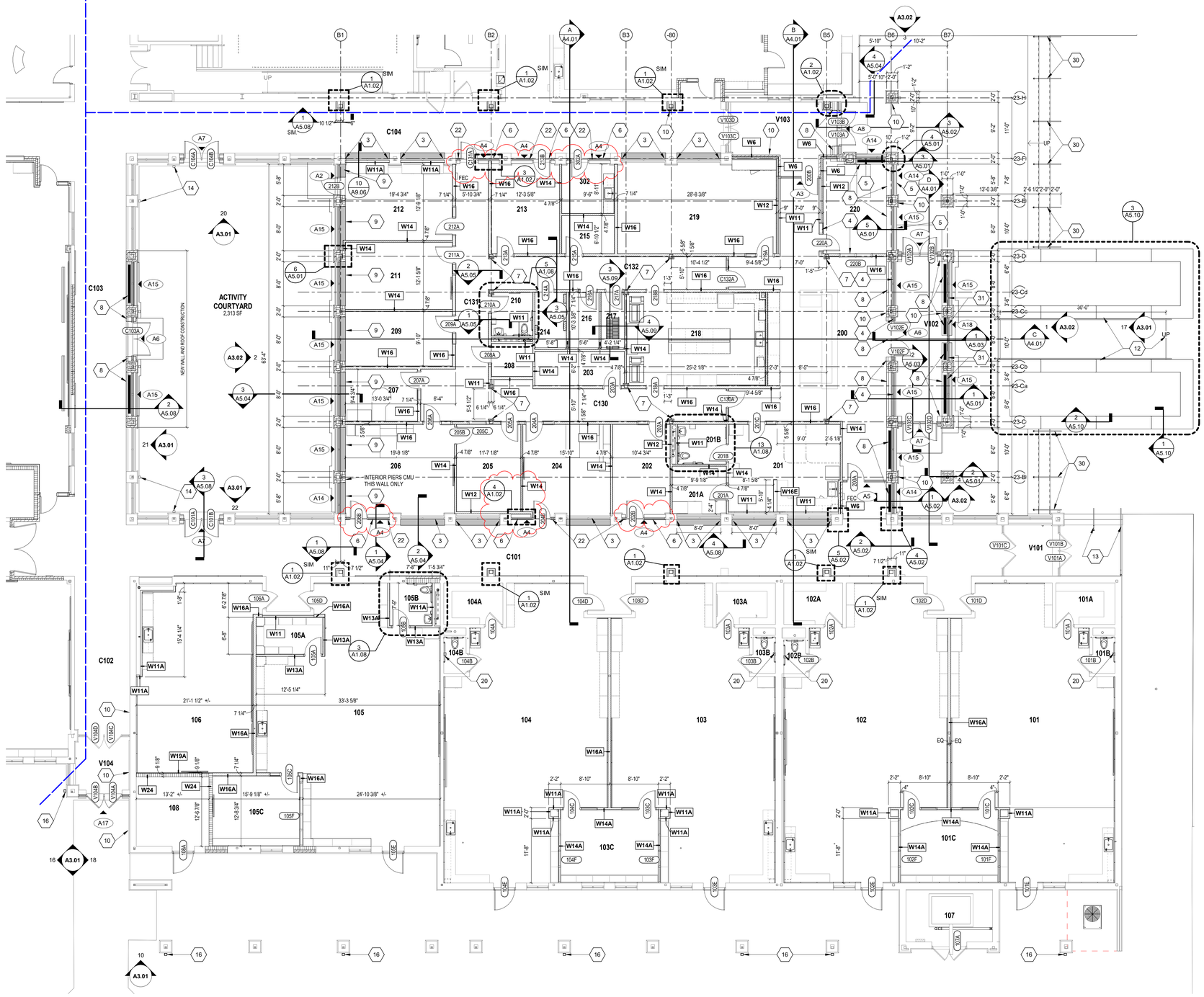


1 TYPICAL TILE COLUMN PILASTER

SCALE: 3/4" = 1'-0"

ROOM LEGEND - UNIT B

ROOM NO.	ROOM NAME	AREA (SF)
	ACTIVITY COURTYARD	2,313 SF
101	KINDER - CR 1	1,327 SF
101A	STORAGE	80 SF
101B	TOILET	26 SF
101C	SMALL GROUP	234 SF
102	KINDER - CR 2	1,325 SF
102A	STORAGE	80 SF
102B	TOILET	24 SF
103	KINDER - CR 3	1,329 SF
103A	STORAGE	80 SF
103B	TOILET	27 SF
103C	SMALL GROUP	234 SF
104	KINDER - CR 4	1,327 SF
104A	STORAGE	80 SF
104B	TOILET	27 SF
105	KINDER - CR 35	1,243 SF
105A	STORAGE	80 SF
105B	RR	58 SF
105C	SMALL GROUP	201 SF
106	FLEX ROOM	707 SF
107	MECH	149 SF
108	OUTDOOR STORAGE	166 SF
200	RECEPTION	901 SF
201	CLINIC	315 SF
201A	EXAM	84 SF
201B	RR	63 SF
202	E.C. SPEECH	172 SF
203	STORAGE	100 SF
204	ASST PRINCIPAL'S OFFICE	262 SF
205	SMALL CONFERENCE	183 SF
206	PRINCIPAL'S OFFICE	330 SF
207	PSYCHOLOGIST	123 SF
208	ISOLATION	44 SF
209	INST COACH OFFICE	191 SF
210	RR	58 SF
211	SOCIAL WORKER	235 SF
212	OT/PT OFFICE	272 SF
213	SPEECH/HEARING	203 SF
214	ELEC	58 SF
215	TEST STOR/ QUIET SPACE	65 SF
216	IDF	57 SF
217	MEZZANINE	43 SF
218	WORKROOM	418 SF
219	LARGE CONFERENCE	478 SF
220	SRO OFFICE	189 SF
302	MOTHERS	88 SF
C101	CORRIDOR	1,729 SF
C102	CORRIDOR	283 SF
C103	CORRIDOR	625 SF
C104	CORRIDOR	1,172 SF
C130	CORRIDOR	261 SF
C131	CORRIDOR	342 SF
C132	CORRIDOR	248 SF
V101	VESTIBULE	91 SF
V102	SECURE VESTIBULE	253 SF
V103	VESTIBULE	216 SF
V104	VESTIBULE	103 SF



UNIT B ARCHITECTURAL PLAN

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

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USG DATUM.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET S3.03.
F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
J. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
K. PROVIDE WOOD BLOCKING AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS. REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

—— W### INDICATES WALL TYPE. REFER TO DRAWING A1.06 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

1 ALIGN FINISH FACES
2 PROVIDE INTERIOR LAMINATED SECURITY GLAZING ALL GLASS THIS OPENING
3 ADD DECORATIVE FILM OVERLAY TO EXISTING INSULATED GLAZING TO REMAIN
4 PROVIDE LAMINATED SECURITY GLAZING WITH PRIVACY FILM ALL GLASS THIS OPENING (4)
5 PROVIDE INSULATED SECURITY GLAZING (2) WITH PRIVACY FILM ALL GLASS THIS OPENING
6 PROVIDE DECORATIVE FILM OVERLAY ON ALL NEW INTERIOR GLAZING THIS OPENING EXCEPT DOOR LITE WHERE APPLICABLE
7 WRAP STEEL COLUMN WITH 1 5/8" METAL STUDS AND 5/8" GWB WHERE PROTRUDING OUTSIDE OF WALL
8 BRICK SILL. REFER TO 1-A5.01. REFER TO MECHANICAL DRAWINGS FOR FIN TUBE AND GRILLE LOCATIONS
9 SOLID SURFACE SILL ON CMU LOW WALL. REFER TO 3-A5.04. REFER TO MECHANICAL DRAWINGS FOR FIN TUBE AND GRILLE LOCATIONS
10 AUTOMATIC DOOR OPERATOR LOCATION
11 REPLACE EXISTING METAL COPING ON MECH. EQUIPMENT SCREEN WALL. REPLACE FLEXIBLE FLASHING AND WOOD BLOCKING AS REQUIRED. SEE ELEVATIONS FOR ADDITIONAL MASONRY REPAIR NOTES.
12 NEW EXTERIOR RAMP WITH ILLUMINATED RAILINGS. SEE 7/5.09 FOR RAILING DETAIL
13 EXTERIOR STAIR WITH NON-ILLUMINATED RAILING, SEE DETAIL 5 & 6/A5.09
14 REPLACE ALL EXISTING DOWNSPOUTS IN COURTYARD. F.V. EXACT LOCATIONS.
15 REPLACE EXISTING DOCK BUMPER
16 REPLACE EXISTING DOWNSPOUT AND CAST IRON BOOT. SEE ELEVATIONS AND SITE/CIVIL DRAWINGS.
17 FAUX COLUMNS TO MATCH EXISTING CONSTRUCTION
19 REPLACE DOCK SLAB WITH NEW IN SAME PLACE WITH CURBS ON NORTH AND SOUTH SIDES, SEE STRUCTUAL DRAWINGS
20 INSTALL NEW GRAB BARS IN SAME LOCATION AS EXISTING
21 REPLACE EXISTING STEEL RAILINGS WITH NEW ALUMINUM RAILINGS. SEE DETAIL 9, 10, 11/A5.09.
22 CONTRACTOR TO MATCH EXISTING WINDOW SEALANT COLOR AT NEW INTERIOR ALUMINUM FRAMES.
23 NEW EMERGENCY GENERATOR AND ENCLOSURE (ALTERNATE). SEE ELECTRICAL AND SITE/CIVIL DRAWINGS.
24 NEW FLOOR MOUNTED ALUMINUM RAILING, SIM TO DETAIL 5/A5.09 WITH 1 INTERMEDIATE POST.
26 WRAP CUT END OF EXISTING WALL WITH NEW BRICK TO MATCH EXISTING. TOOTH-IN TO EXISTING TO REMAIN
27 METAL STUD WALL ABOVE DOOR. SEE DOOR SCHEDULE AND HEAD DETAIL.
28 NEW CHAIN LINK FENCE AND GATES. SEE L1.2 FOR LAYOUT AND SEE SPECS FOR GATE HARDWARE.
29 INFILL GAP BETWEEN TOP OF MASONRY AND BOTTOM OF ROOF DECK WITH STUDS AND DRYWALL, BOTH SIDES.
30 EXTERIOR STAIR WITH ILLUMINATED RAILING, SEE DETAIL 5 & 7/A5.09
31 PROVIDE INSULATED SECURITY GLAZING (1A) WITH PRIVACY FILM ALL GLASS THIS OPENING.
32 INDICATED WALLS HAVE SAND FILLED CORES

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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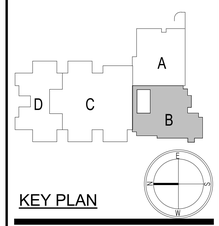


KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: BGS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

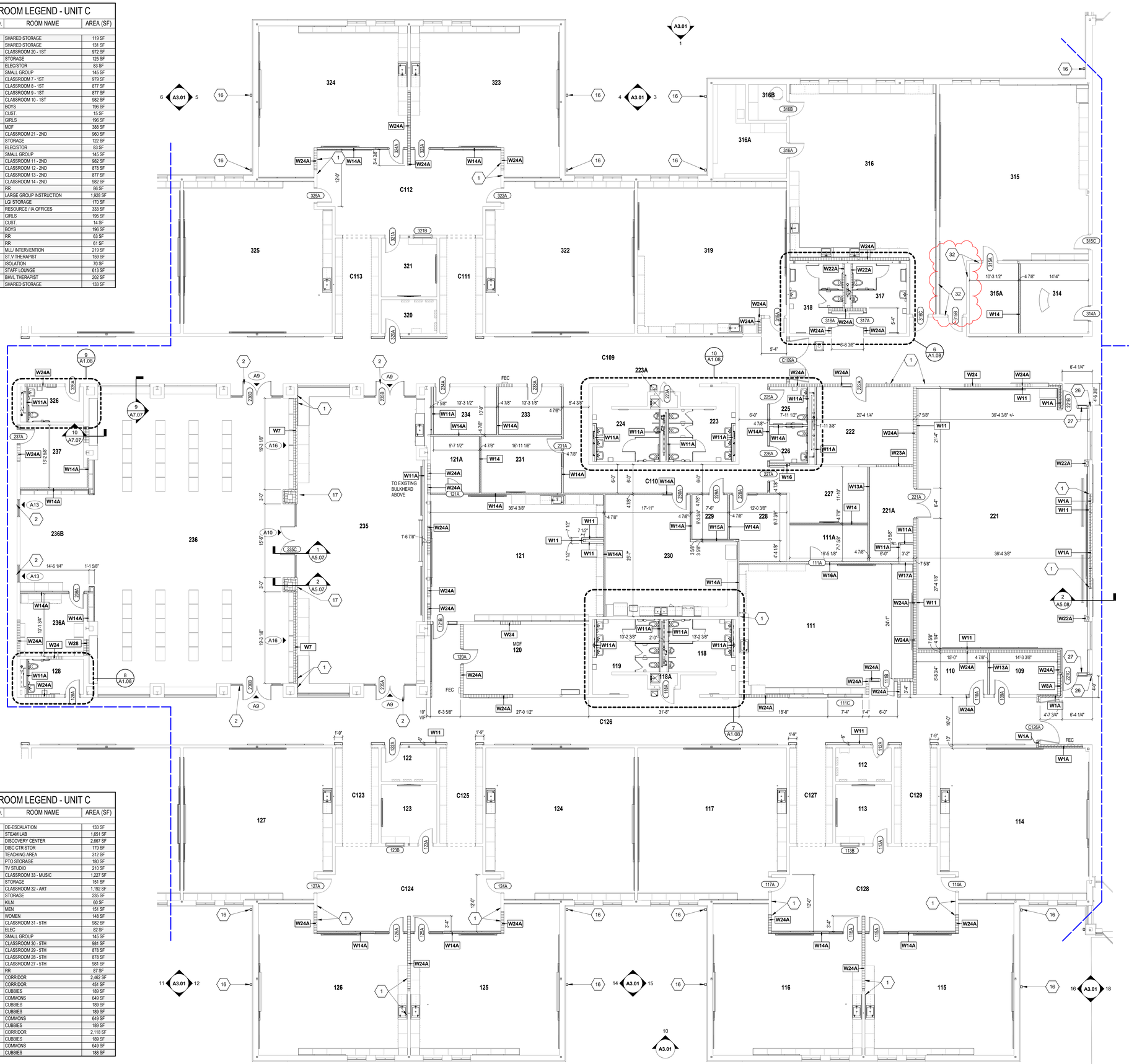
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT B - FIRST FLOOR ARCHITECTURAL PLAN

A1.02

ROOM LEGEND - UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	126 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	398 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1,928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLL/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF



UNIT C ARCHITECTURAL PLAN

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

ROOM LEGEND - UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
234	DE-ESCALATION	133 SF
235	STEAM LAB	1,651 SF
236	DISCOVERY CENTER	2,667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1,227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1,192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2,462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2,118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USG DATUM.
D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET S3.03.
F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
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J. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
K. PROVIDE WOOD BLOCKING AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
L. REFER TO MASTER CODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL PLAN NOTES

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1 ALIGN FINISH FACES
2 PROVIDE INTERIOR LAMINATED SECURITY GLAZING ALL GLASS THIS OPENING
3 ADD DECORATIVE FILM OVERLAY TO EXISTING INSULATED GLAZING TO REMAIN
4 PROVIDE LAMINATED SECURITY GLAZING WITH PRIVACY FILM ALL GLASS THIS OPENING (4)
5 PROVIDE INSULATED SECURITY GLAZING (2) WITH PRIVACY FILM ALL GLASS THIS OPENING
6 PROVIDE DECORATIVE FILM OVERLAY ON ALL NEW INTERIOR GLAZING THIS OPENING EXCEPT DOOR LITE WHERE APPLICABLE
7 WRAP STEEL COLUMN WITH 1 5/8" METAL STUDS AND 5/8" GWB WHERE PROTRUDING OUTSIDE OF WALL
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9 SOLID SURFACE SILL ON CMU LOW WALL. REFER TO 3-A5.04. REFER TO MECHANICAL DRAWINGS FOR FIN TUBE AND GRILLE LOCATIONS
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12 NEW EXTERIOR RAMP WITH ILLUMINATED RAILINGS. SEE 7/5.09 FOR RAILING DETAIL
13 EXTERIOR STAIR WITH NON-ILLUMINATED RAILING, SEE DETAIL 5 & 6/A5.09
14 REPLACE ALL EXISTING DOWNSPOUTS IN COURTYARD. F.V. EXACT LOCATIONS.
15 REPLACE EXISTING DOCK BUMPER
16 REPLACE EXISTING DOWNSPOUT AND CAST IRON BOOT. SEE ELEVATIONS AND SITE/CIVIL DRAWINGS.
17 FAUX COLUMNS TO MATCH EXISTING CONSTRUCTION
19 REPLACE DOCK SLAB WITH NEW IN SAME PLACE WITH CURBS ON NORTH AND SOUTH SIDES, SEE STRUCTUAL DRAWINGS
20 INSTALL NEW GRAB BARS IN SAME LOCATION AS EXISTING
21 REPLACE EXISTING STEEL RAILINGS WITH NEW ALUMINUM RAILINGS. SEE DETAIL 9, 10, 11/A5.09.
22 CONTRACTOR TO MATCH EXISTING WINDOW SEALANT COLOR AT NEW INTERIOR ALUMINUM FRAMES.
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28 NEW CHAIN LINK FENCE AND GATES. SEE L1.2 FOR LAYOUT AND SEE SPECS FOR GATE HARDWARE.
29 INFILL GAP BETWEEN TOP OF MASONRY AND BOTTOM OF ROOF DECK WITH STUDS AND DRYWALL, BOTH SIDES.
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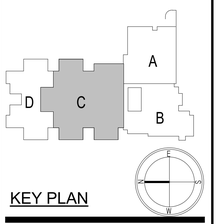

KEY PLAN

BID SET

PAUL A. MILLER
REGISTERED
No. A 0300161
STATE OF
INDIANA
ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: BGS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT C - FIRST FLOOR ARCHITECTURAL PLAN

A1.03

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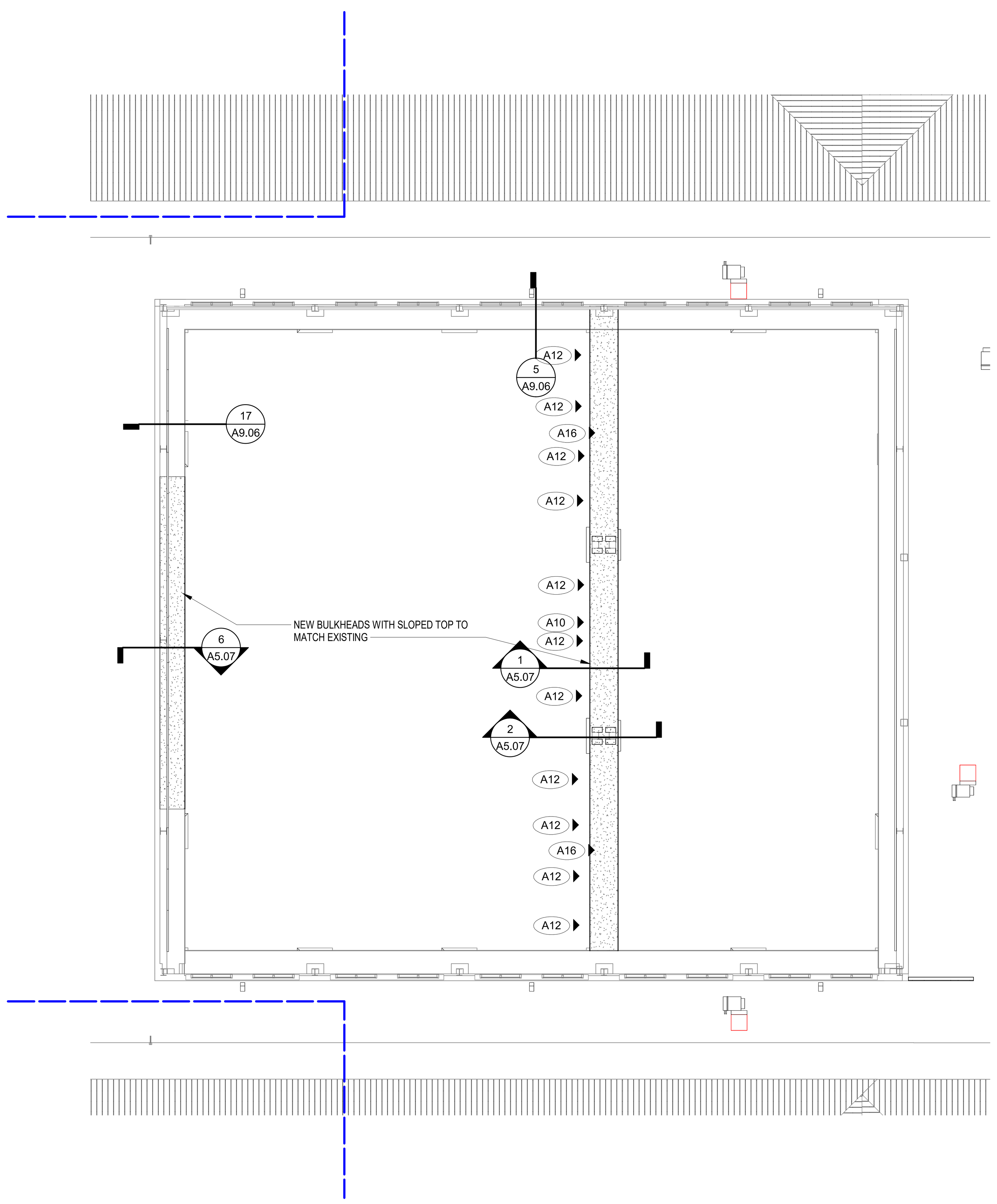
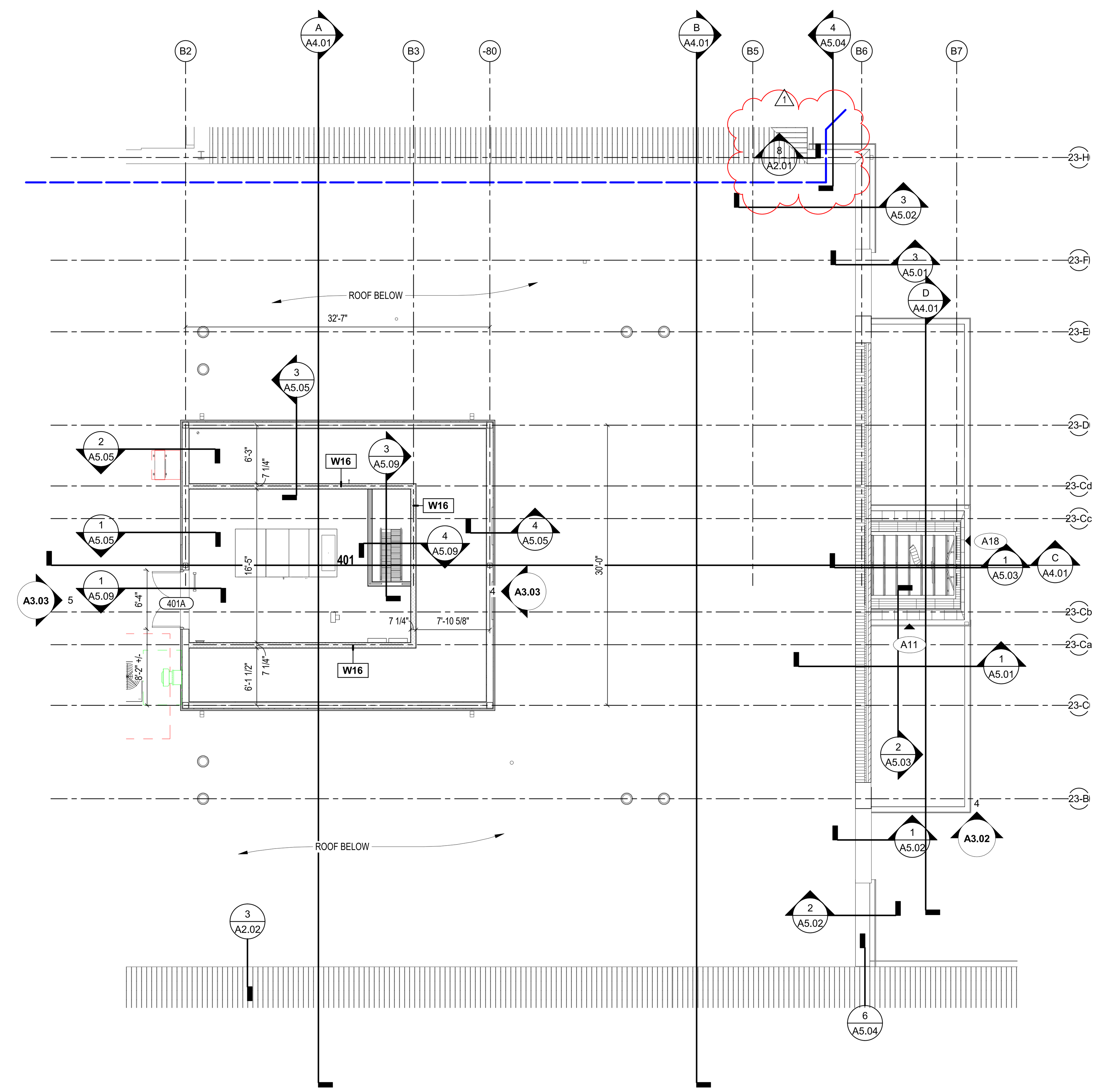


UPPER LEVEL UNIT C PLAN

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



UPPER LEVEL UNIT B PLAN

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

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.

B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.

C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USG DATUM.

D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL., AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.

E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET S3.03.

F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.

G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.

I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.

J. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.

K. PROVIDE WOOD BLOCKING AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.

L. REFER TO MASTER/CODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.

ARCHITECTURAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

W### INDICATES WALL TYPE. REFER TO DRAWING A1.06 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

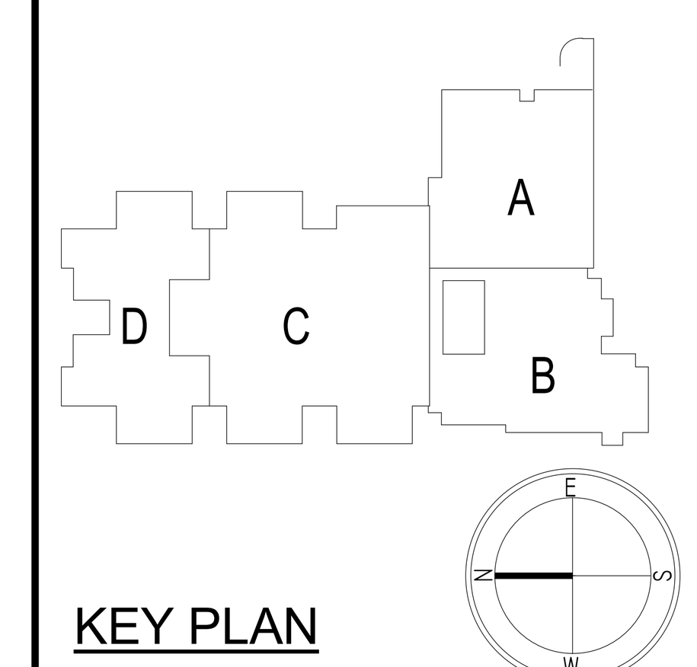
CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204



KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: BGS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UPPER LEVEL FLOOR PLANS

A1.05

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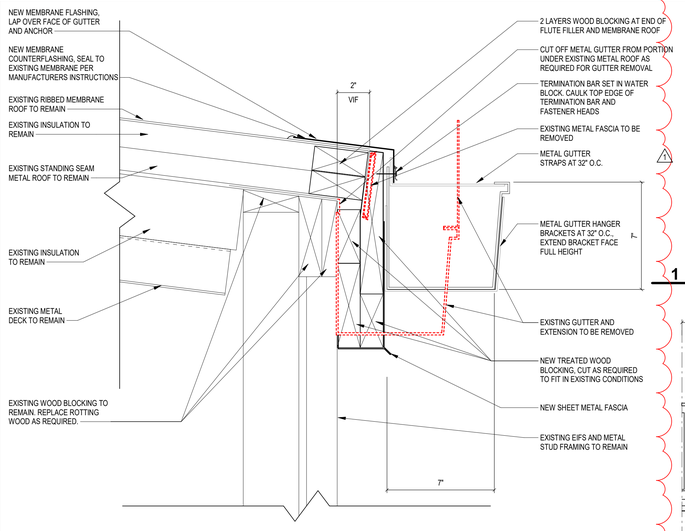
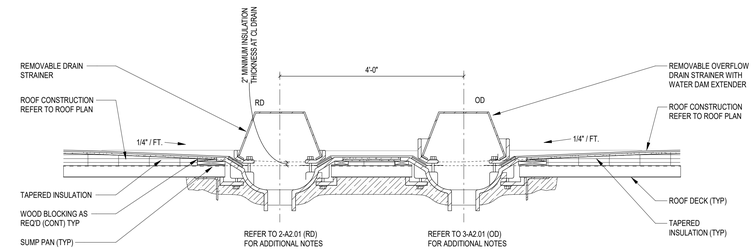
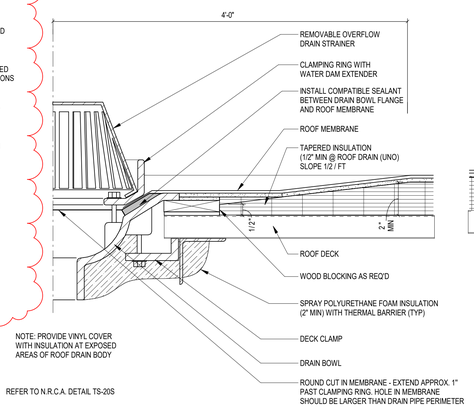


4 EXISTING GUTTER REPLACEMENT DETAIL

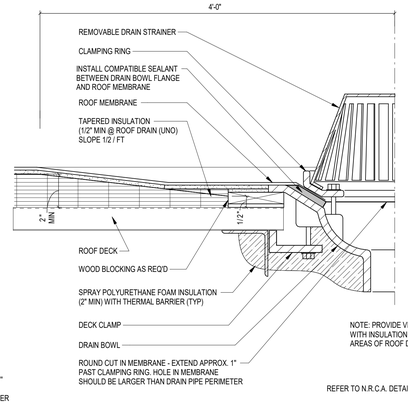
SCALE: 3" = 1'-0"



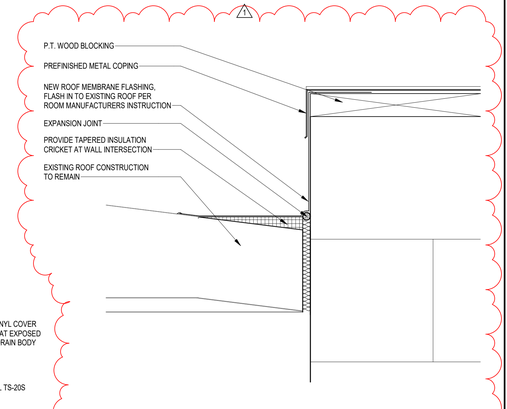
1 SECTION - ROOF DRAIN (RD) / OVERFLOW DRAIN (OD) - FLAT METAL DECK



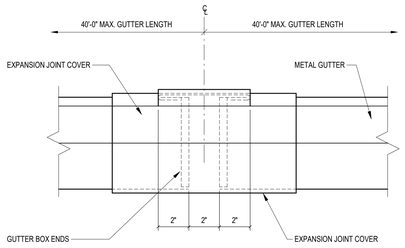
3 OVERFLOW DRAIN (OD)



2 ROOF DRAIN (RD)

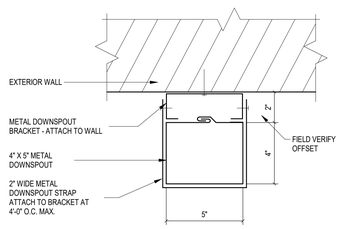


8 PARAPET WALL INSERSECTION



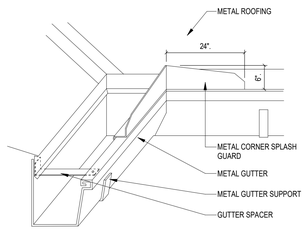
5 TYP. GUTTER EXPANSION JOINT

SCALE: 3" = 1'-0"



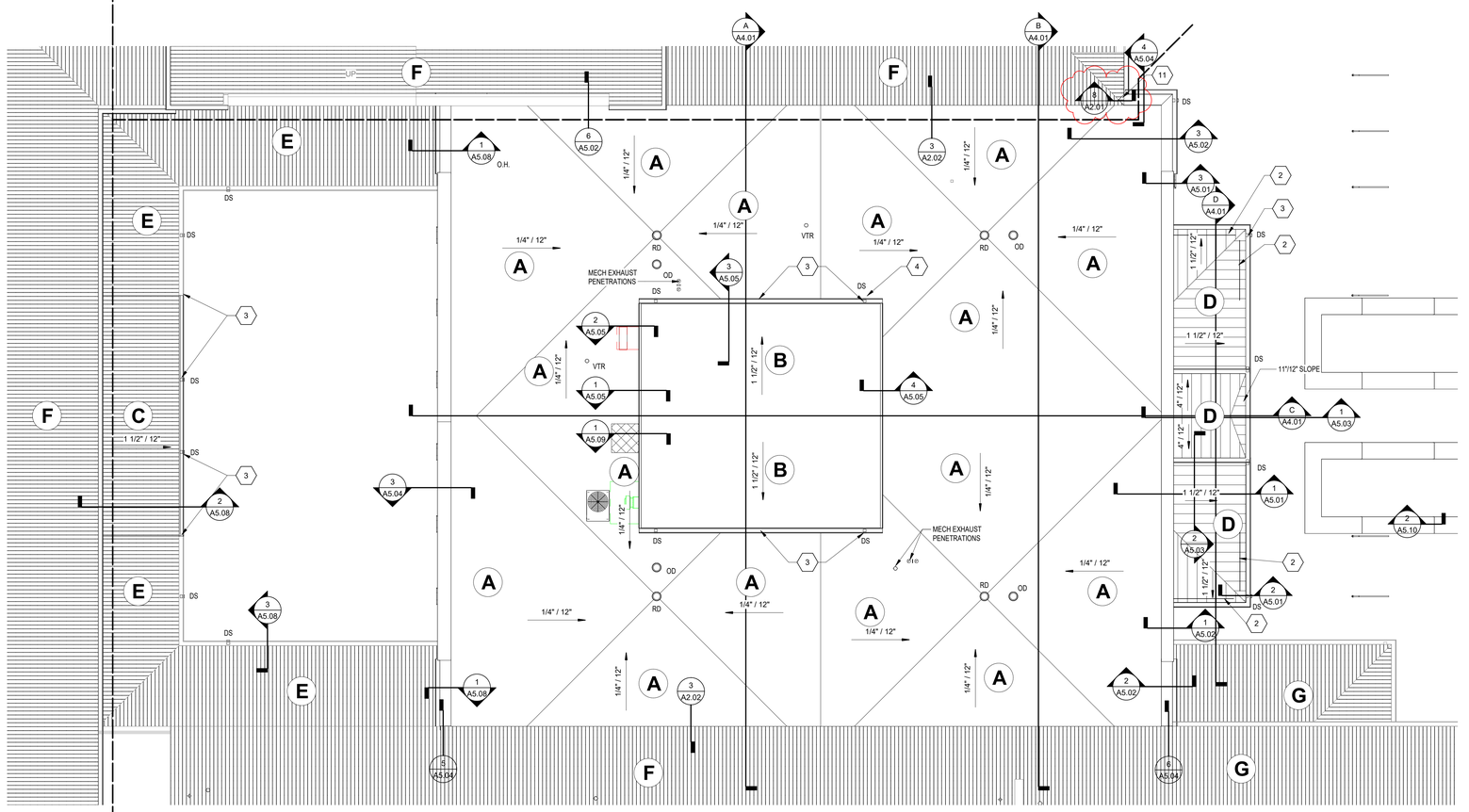
6 TYP. DOWNSPOUT DETAIL

SCALE: 3" = 1'-0"



7 TYP. CORNER SPLASH GUARD AT VALLEY LOCATIONS

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



UNIT B NEW ADDITION ROOF PLAN

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

ROOF PLAN GENERAL NOTES

A. ALL DETAILS SHOWN ARE FOR GENERAL INFORMATION. ALL FINAL FLASHING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE ROOF INSTALLER, AND SHALL MEET APPROVAL OF ROOF MANUFACTURER.

B. ALL DETAIL MODIFICATIONS MUST HAVE SHOP DRAWINGS APPROVAL. CONTRACTOR SHALL INSPECT AND VERIFY ALL EXISTING FIELD CONDITIONS, CLEARANCES, AND DIMENSIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT ARCHITECT BEFORE PROCEEDING WITH ANY FURTHER WORK.

C. OPENINGS IN ROOF WILL BE CUT BY ROOF CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF OPENING IN ROOF WITH ROOF CONTRACTOR. CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ROOF CONTRACTOR.

D. PROVIDE FLASHING AND SADDLES FOR ALL EQUIPMENT PROVIDED UNDER MECHANICAL.

E. SADDLES AND TAPERED INSULATION SYMBOLS INDICATE DESIGN INTENT TO SLOPE TO DRAIN. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS FOR TAPERED INSULATION AND SADDLES TO INSURE POSITIVE SLOPE.

F. THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS, AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND CONSTRUCTION. THE ROOF CONTRACTOR SHALL INSPECT AND CLEAR ALL DRAINS, SCUPPERS, AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY.

ROOF PLAN NOTES

* MECHANICAL, ELECTRICAL AND PLUMBING INFORMATION SHOWN ON THIS PLAN IS GENERAL IN NATURE. REFER TO P, M AND E DRAWINGS FOR FURTHER INFORMATION AND COORDINATE ALL REQUIRED ROOF OPENINGS OR ROOF MOUNTED EQUIPMENT.

1 EXISTING ROOF TO REMAIN
2 PROVIDE ONE ROW SNOW AND ICE GUARD
3 NEW GUTTERS AND DOWNSPOUTS, TYP.
4 PROVIDE PROTECTION SHEET AT ALL DOWNSPOUT DISCHARGE LOCATIONS
5 REPLACE DELAMINATING ROOF MEMBRANE ON FLAT ROOF AREAS AS REQUIRED TO COPING/WALL FLASHING. SECURE NEW FLASHING WITH TERMINATION BAR.
6 PATCH/REPAIR ROOF MEMBRANE LEAK AS REQUIRED. ALTERNATE #1 - COORDINATE WITH ROOF COATING PREP WORK.
7 REMOVE ABANDONED WIRE TIES BACK TO WALL.
8 REPAIR EIFS ABOVE WINDOWS THIS LOCATION.
9 REMOVE WIRE TIES ON ROOF. PATCH/REPAIR MEMBRANE AS REQUIRED.
10 REPAIR DAMAGED EIFS IN THIS AREA. REPLACE TO MATCH EXISTING.
11 PROVIDE TAPERED INSULATION CRICKET AT WALL INTERSECTION

ROOF TYPE LEGEND

A MEMBRANE ROOFING SYSTEM (ADHERED) ON 1/4" COVER BOARD ON TAPERED ROOF INSULATION (1/4" PER FOOT, 1/2" MINIMUM) ON 2" RIGID ROOF INSULATION ON VAPOR RETARDER OVER FLAT METAL ROOF DECK

B MEMBRANE ROOFING SYSTEM (ADHERED) ON 1/4" COVER BOARD ON 4" RIGID ROOF INSULATION ON VAPOR RETARDER OVER SLOPING METAL ROOF DECK

C ADHERED FLEECE BACKED MEMBRANE ROOFING SYSTEM WITH VERTICAL PROFILE RIBS ON 1/4" COVER BOARD ON 4" RIGID ROOF INSULATION ON VAPOR RETARDER OVER SLOPING METAL ROOF DECK

D STANDING SEAM METAL ROOFING SYSTEM OVER FULL COVERAGE SELF-ADHERING SHEET UNDERLAYMENT ON 4" RIGID ROOF INSULATION ON VAPOR RETARDER OVER SLOPING METAL ROOF DECK

E REMOVE EXISTING MEMBRANE ROOF. PROVIDE NEW ADHERED FLEECE BACKED MEMBRANE ROOFING SYSTEM WITH VERTICAL PROFILE RIBS AND 1/4" COVER BOARD ON EXISTING RIGID ROOF INSULATION AND METAL ROOFING BELOW ON ADDITIONAL INSULATION AND SLOPING METAL ROOF DECK

F ALTERNATE #1 - PREPARE AND REPAIR EXISTING MEMBRANE ROOFING TO RECEIVE NEW SEAM REINFORCEMENTS AND NEW RESTORATION COATING. PROVIDE RESTORATION COATING TO EXTENTS OF EXISTING MEMBRANE SURFACE AND FLASHINGS (UNO). REPAIR ANY DEFECTS OR IRREGULARITIES IN THE EXISTING MEMBRANE THAT WILL INHIBIT NEW WORK.

G EXISTING STANDING SEAM METAL ROOF TO REMAIN.

ROOF PLAN SYMBOL LEGEND

12'-0" (UNO) / 8'-0" (UNO) — INDICATES ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). (FLASH IN ACCORDANCE WITH ROOF MEMBRANE MANUFACTURER'S RECOMMENDATION.)

VTR — INDICATES VENT THROUGH ROOF - REFER TO PLUMBING DRAWINGS

FL — INDICATES FLUE - REFER TO MECHANICAL DRAWINGS

INDICATES MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS

SLOPE 7 / 12 — INDICATES ROOF SLOPE

INDICATES ROOF SADDLE - REFER TO PROJECT MANUAL.

INDICATES EXPANSION JOINT - REFER TO ROOF PLAN AND WALL SECTIONS.

INDICATES WALL LINE BELOW - REFER TO ARCHITECTURAL FLOOR PLANS

DS — INDICATES METAL DOWNSPOUT. REFER TO ROOF PLAN AND BUILDING ELEVATIONS FOR LOCATIONS

INDICATES WALKWAY PADS -REFER TO PROJECT MANUAL

VERIFICATION NOTE

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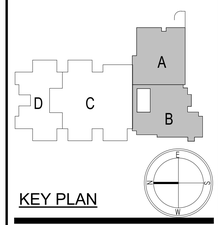


KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: BGS

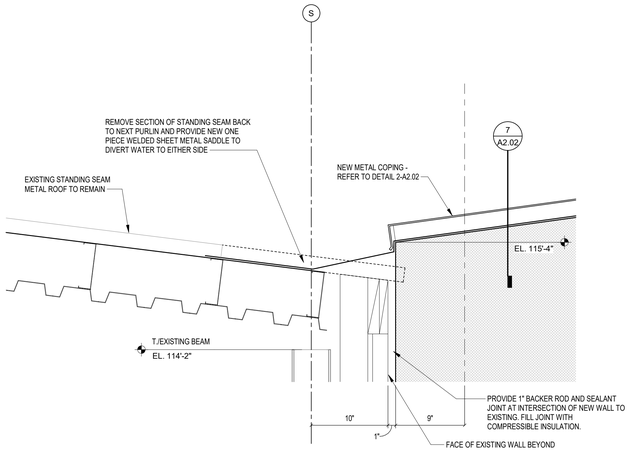
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

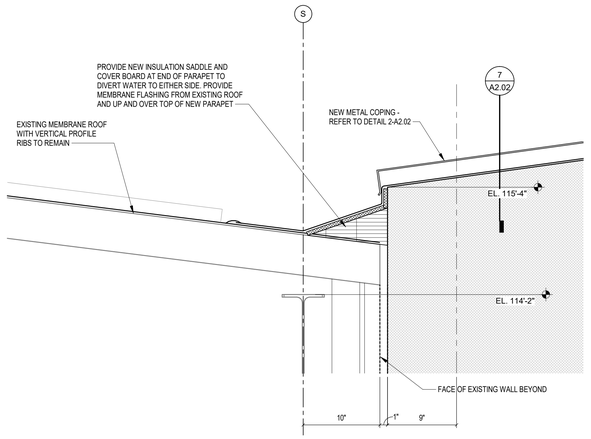
ROOF PLAN

A2.01



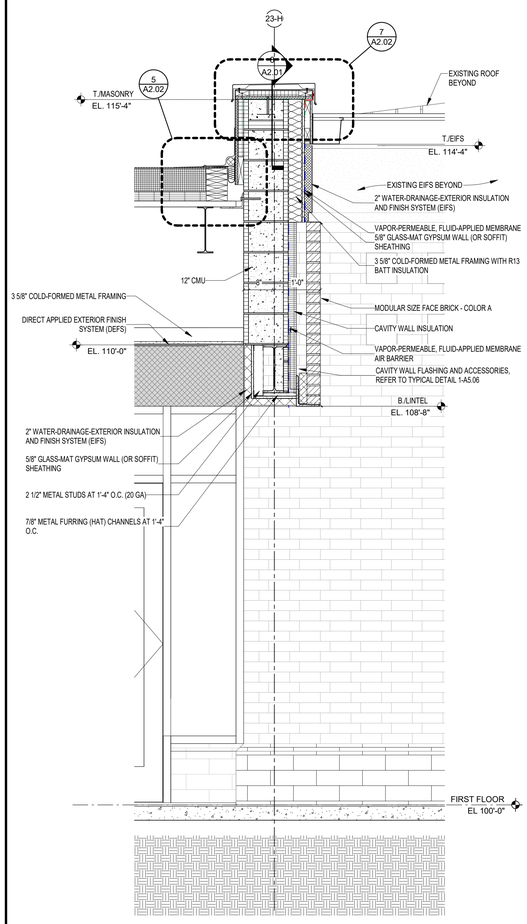
6 END OF PARAPET FLASHING TO EXISTING STANDING SEAM

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



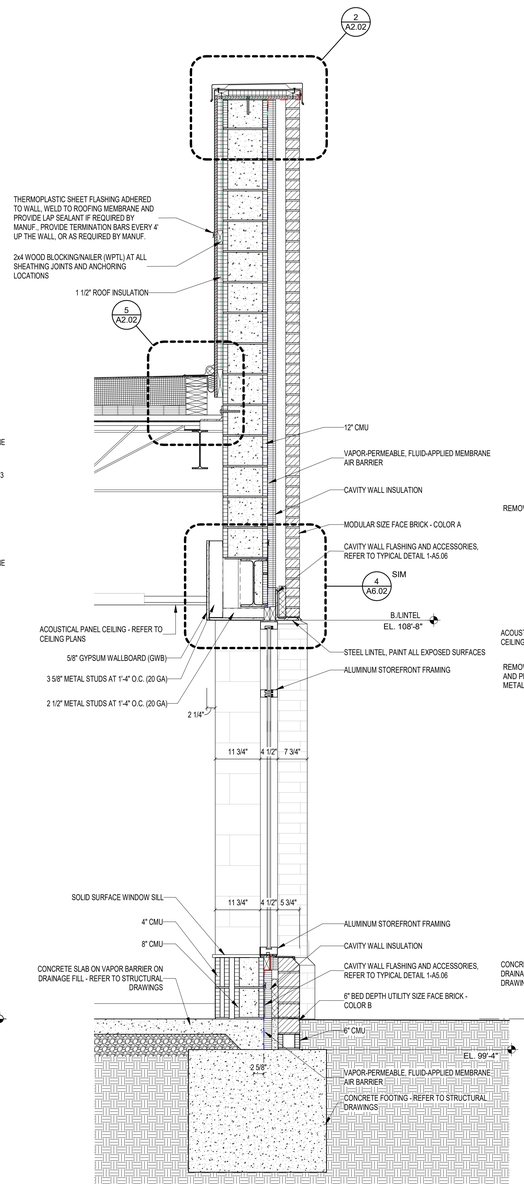
5 END OF PARAPET FLASHING TO EXISTING MEMBRANE

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



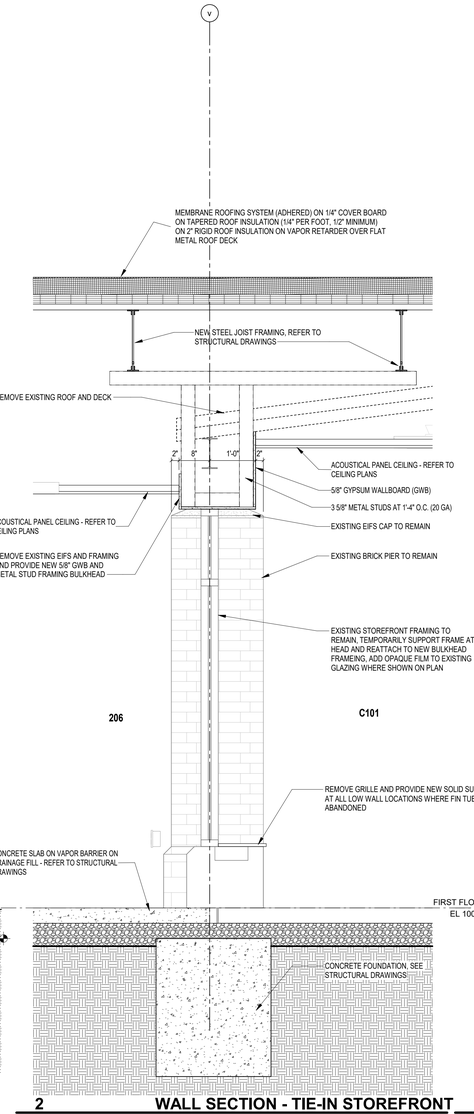
4 WALL SECTION

SCALE: 3/4" = 1'-0"



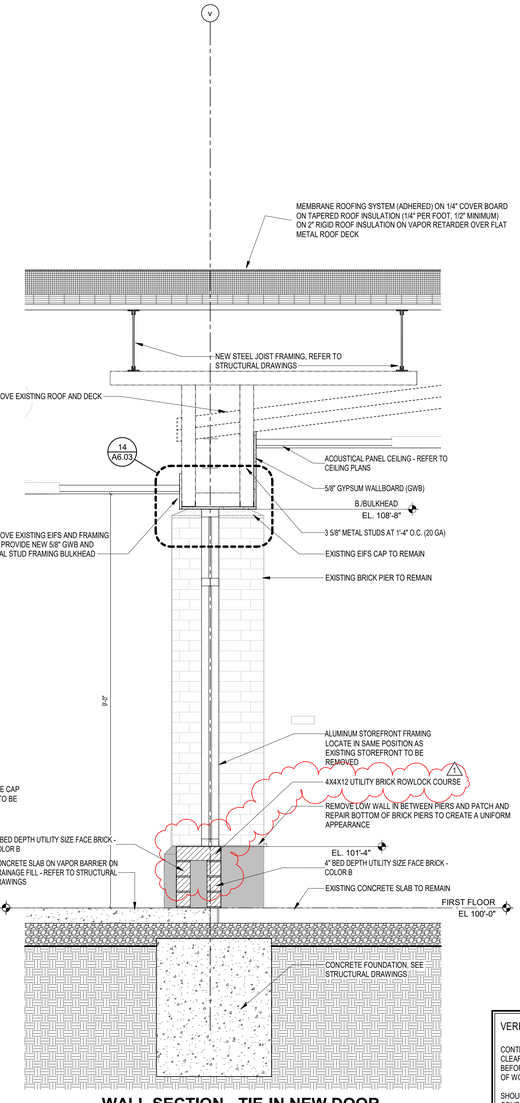
3 COURTYARD WALL SECTION

SCALE: 3/4" = 1'-0"



2 WALL SECTION - TIE-IN STOREFRONT

SCALE: 3/4" = 1'-0"



1 WALL SECTION - TIE-IN NEW DOOR

SCALE: 3/4" = 1'-0"

GENERAL NOTES

A. COORDINATE ALL LINTEL AND BOND BEAM REQUIREMENTS WITH STRUCTURAL DRAWINGS AND PROJECT MANUAL.
B. REFER TO THE STRUCTURAL DRAWINGS FOR ALL FOUNDATION AND FOOTING CONDITIONS.
C. PROVIDE HORIZ. JOINT REFINFORCING, TIES, AND OTHER ANCHORAGE/REINFORCEMENT ITEMS AS REQ'D. PER PROJECT MANUAL.
D. ROOF TO EXTERIOR WALL JUNCTIONS: REFER TO DIVISION 07 SECTION "THERMAL INSULATION" FOR SPRAY POLYURETHANE INSULATION REQUIRED AT THESE LOCATIONS.
E. WALL INSULATION PENETRATIONS: PROVIDE SPRAY POLYURETHANE INSULATION OR SEALANT AROUND ALL PENETRATIONS OF THE WALL INSULATION BY PIPING, CONDUITS, FRAMING, STRUCTURE, ETC.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. 11300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: BGS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

WALL SECTIONS

A5.04

GENERAL NOTES

A. COORDINATE ALL LINTEL AND BOND BEAM REQUIREMENTS WITH STRUCTURAL DRAWINGS AND PROJECT MANUAL.
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C. PROVIDE HORIZ. JOINT REINFORCING, TIES, AND OTHER ANCHORAGE/REINFORCEMENT ITEMS AS REQ'D. PER PROJECT MANUAL.
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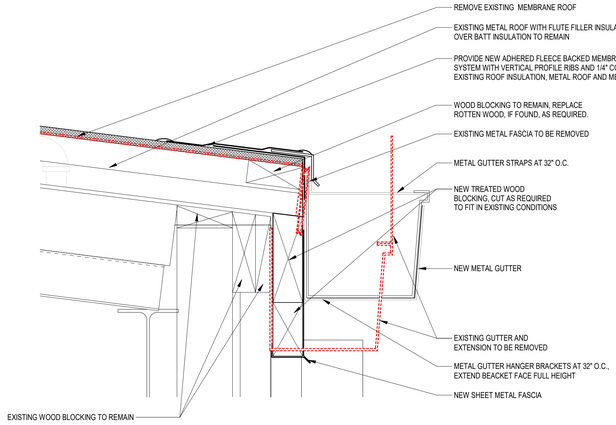
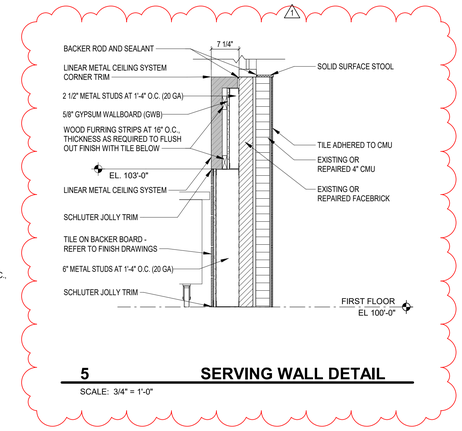
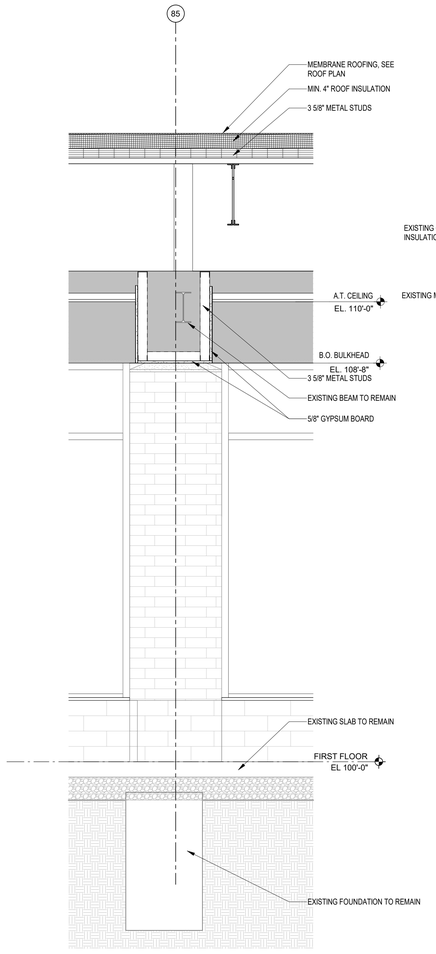


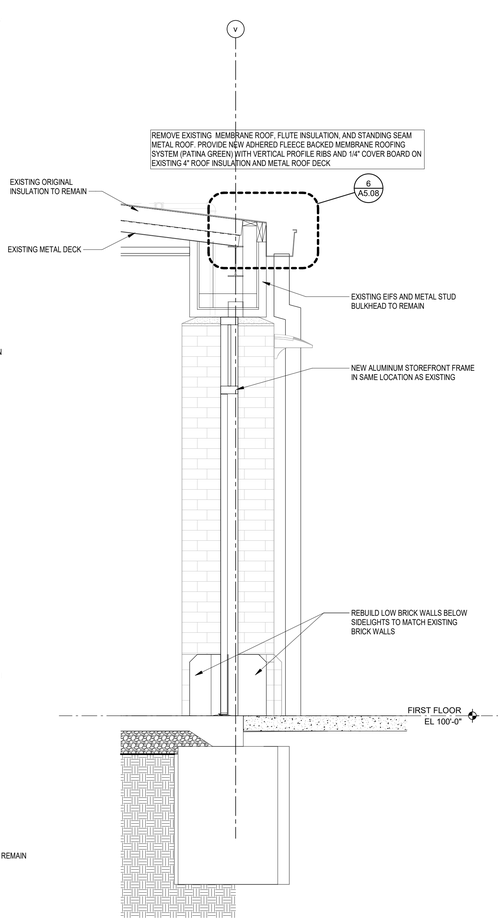
6 COURTYARD GUTTER DETAIL
SCALE: 3" = 1'-0"



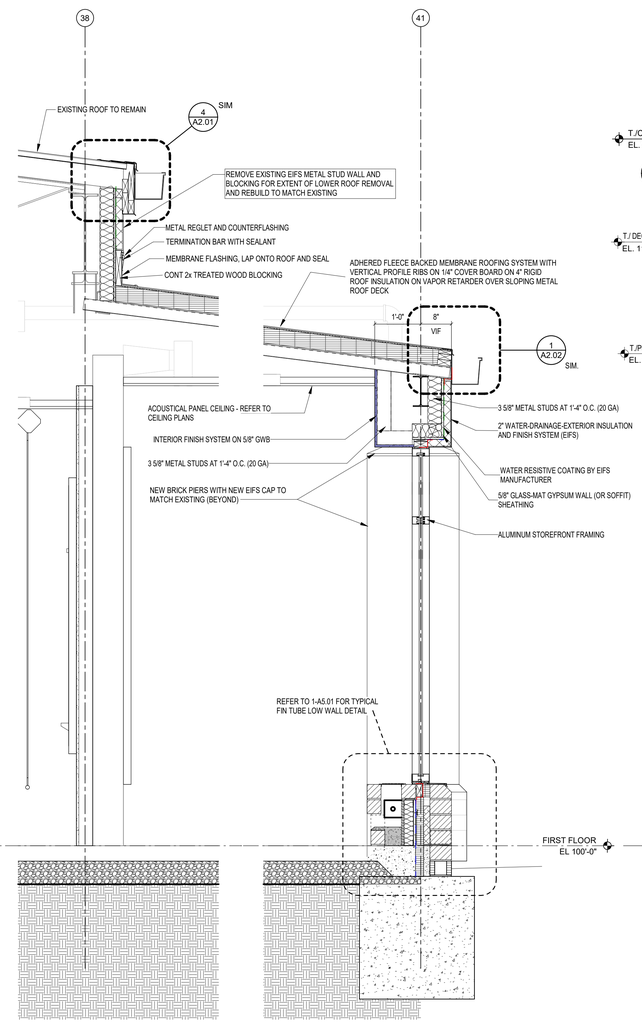
5 SERVING WALL DETAIL
SCALE: 3/4" = 1'-0"



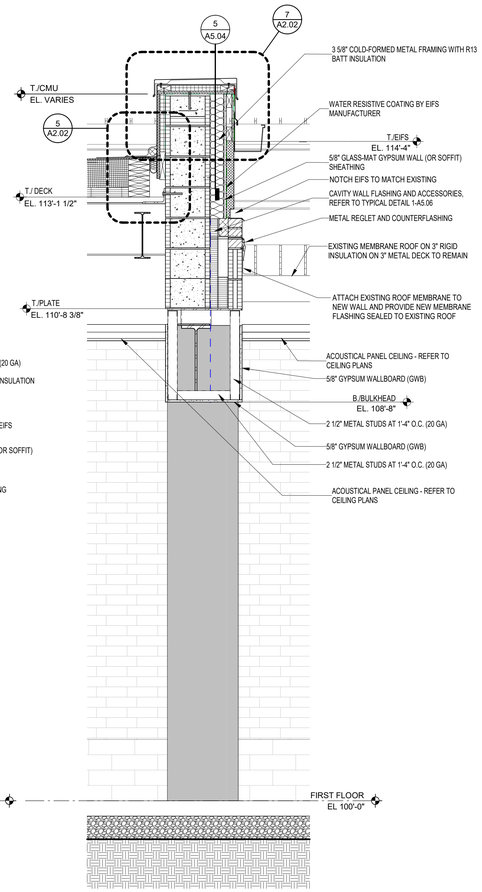
4 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION - COURTYARD DOORS
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

VERIFICATION NOTE

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350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

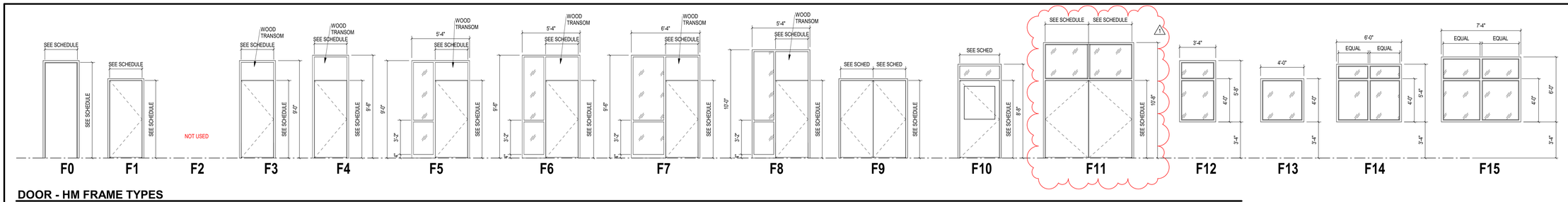
PAUL A. MILLER REGISTERED No. A 20100161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS
DRAWN BY: BGS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

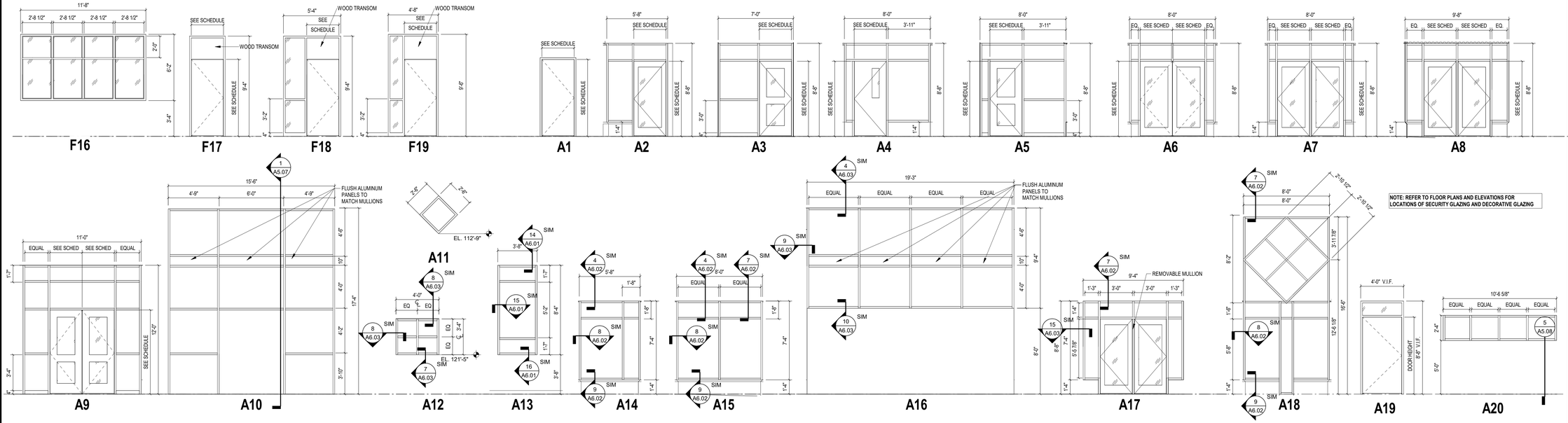
WALL SECTIONS

A5.08



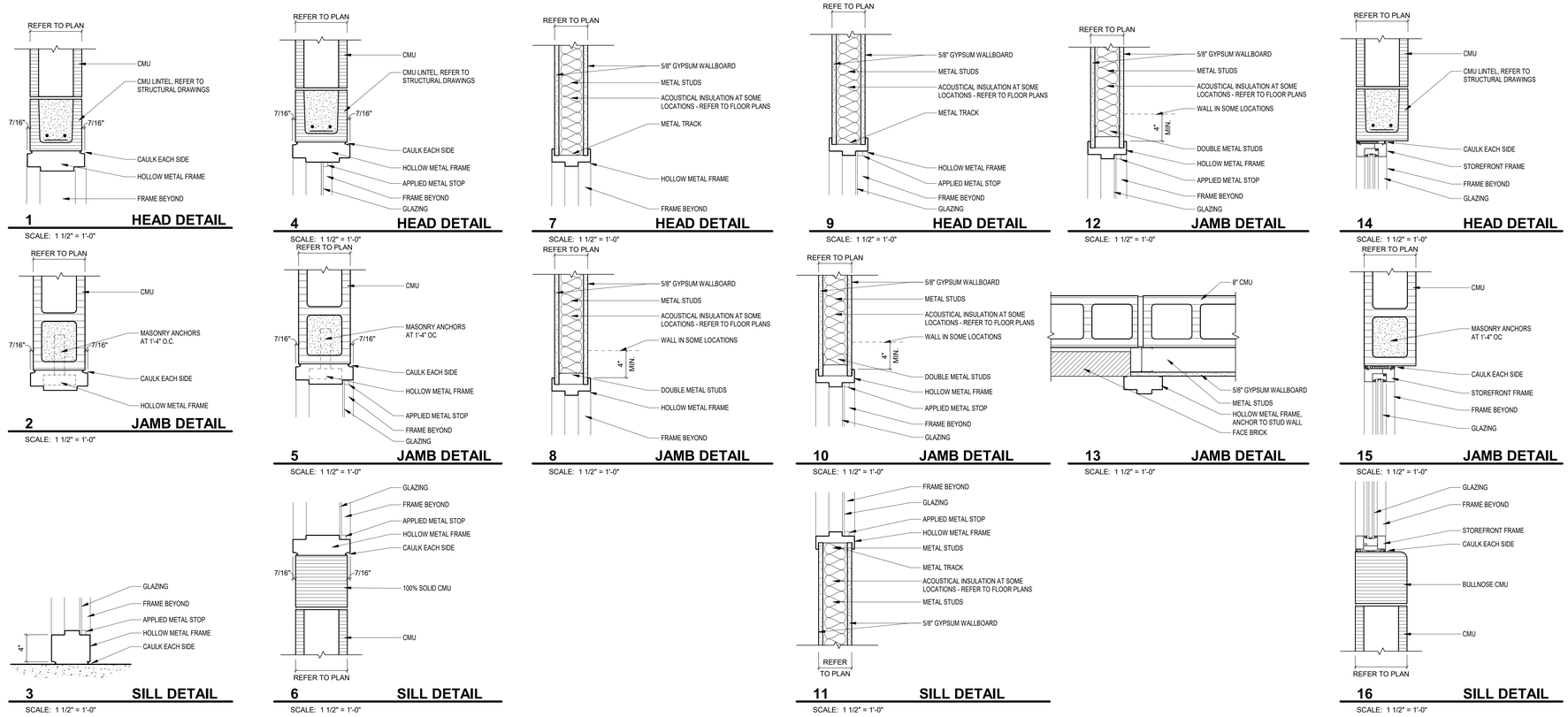
DOOR - HM FRAME TYPES

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



DOOR - SF FRAME TYPES

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



1 HEAD DETAIL — SCALE: 1 1/2" = 1'-0"

2 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

3 SILL DETAIL — SCALE: 1 1/2" = 1'-0"

4 HEAD DETAIL — SCALE: 1 1/2" = 1'-0"

5 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

6 SILL DETAIL — SCALE: 1 1/2" = 1'-0"

7 HEAD DETAIL — SCALE: 1 1/2" = 1'-0"

8 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

9 HEAD DETAIL — SCALE: 1 1/2" = 1'-0"

10 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

11 SILL DETAIL — SCALE: 1 1/2" = 1'-0"

12 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

13 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

14 HEAD DETAIL — SCALE: 1 1/2" = 1'-0"

15 JAMB DETAIL — SCALE: 1 1/2" = 1'-0"

16 SILL DETAIL — SCALE: 1 1/2" = 1'-0"

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350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER — REGISTERED — No. A01300161 — STATE OF INDIANA — ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: BGS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

FRAME TYPES AND DETAILS

A6.01

UNIT A EQUIPMENT PLAN

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

ROOM LEGEND - UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
301	CLASSROOM 34 - F.A.P.	727 SF
301A	SMALL GROUP	213 SF
301B	DE-ESCALATION	139 SF
301C	RESTROOM	109 SF
303	GIRLS	105 SF
304	BOYS	111 SF
305	KITCHEN	1,688 SF
305A	TOILET	46 SF
305B	DRESSING	54 SF
305C	KITCHEN OFFICE	84 SF
305D	DRY STORAGE	422 SF
305E	CUST	Not Placed
305F	LAUNDRY	117 SF
305G	BREAKROOM	124 SF
305H	DISHWASHING	246 SF
305J	COOLER	237 SF
305K	FREEZER	235 SF
306	BOILER ROOM	2,210 SF
306A	CUSTODIAL OFFICE & BREAKROOM	231 SF
306B	ELECTRICAL	265 SF
307	OUTDOOR STORAGE	348 SF
308	GYMNASIUM	4,501 SF
308A	STORAGE	219 SF
308B	FAMILY RR	66 SF
308C	PARKS OFFICE	203 SF
308D	P.E. OFFICE	161 SF
308E	STORAGE	353 SF
309	CAFETORIUM	2,292 SF
310	STAGE	1,019 SF
311	IDF	29 SF
312	BACKSTAGE	228 SF
313	STORAGE	987 SF
C105	CORRIDOR	761 SF
C106	CORRIDOR	642 SF
C107	CORRIDOR	1,055 SF
V105	VESTIBULE	151 SF

EQUIPMENT GENERAL NOTES

A. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B. HIDDEN LINES (_ _ _) INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
C. (TB) INDICATES 4' HIGH TACK BOARD; LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
D. (MB) INDICATES 4' HIGH MARKER BOARD; LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
E. (TWS) INDICATES TACKABLE WALL SURFACE; LENGTH AS DIMENSIONED. REFER TO ELEVATIONS FOR HEIGHTS.
F. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
G. ALL CASEWORK DOORS AND DRAWERS **WILL NOT** BE LOCKABLE UNLESS NOTED OTHERWISE.
H. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED; ALL EXPOSED BOTTOMS OF CUBBY CABINETS SHALL BE FINISHED.
I. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES.
J. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES, AND WALLS.
K. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED; WC-01 IS MOUNTED WITH THE TOP AT 7'-3" AFF.
L. (CG) INDICATES CORNER GUARD. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND A7S.01 FOR COLOR SELECTIONS.
M. (XFEC) INDICATES EXISTING FIRE EXTINGUISHER CABINET TO REMAIN.
N. (FEC) INDICATES NEW FIRE EXTINGUISHER CABINET.
O. (RWS) INDICATES ROLLER WINDOW SHADE.
P. REFER TO A7S.01 LIST OF FINISHES FOR EQUIPMENT COLOR SELECTIONS. REFER TO A8S.01 FOR ALL SELECTIONS NOT NOTED ON THIS SHEET.
Q. INTERIOR PANEL SIGNAGE TO BE PROVIDED BY ALLOWANCE.

EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 42"H DOUBLE-SIDED MOBILE UNITS (MBC-01). REFER TO DETAIL ON A7.06 AND MEDIA CENTER CASEWORK SCHEDULE ON A7S.01
2 42"H SINGLE-SIDED BOOKSHELVES (MC-2) WITH CONTINUOUS MATCHING PL-3 COUNTERTOP; REFER TO DETAIL 9/A7.07
3 60"H SINGLE-SIDED BOOKSHELVES (MC-4 OR 5, REFER TO ELEVATIONS)
4 OPEN KNEESPACE BELOW COUNTERTOP, REFER TO DETAIL ON A7.06
5 BUILT-IN WOOD SHELVING AND NOOK WITH UPHOLSTERED SEAT, REFER TO ELEVATION 3/A8.07 & DETAIL 10/A7.07
6 RECESSED CEILING-MOUNTED ELECTRIC PROJECTION SCREEN; B.O.D. IS DRAPER LUMA 2 NTSC FORMAT 150" DIAGONAL SCREEN
7 WALL-MOUNTED MANUAL PROJECTION SCREEN; B.O.D. IS DRAPER LUMA 2 NTSC FORMAT 10' DIAGONAL SCREEN WITH 6" EXTENSION MOUNTING BRACKET
8 EXISTING EQUIPMENT TO REMAIN IN THIS ROOM
9 SOLID SURFACE KNEE WALL CAP, SSM-2; REFER TO DETAIL 2/A5.04
10 RWS HOUSING TO BE RECESSED INTO CEILING, REFER TO DETAIL ON A7.06
11 MONITOR, BY OWNER
12 PL-1 CABINETRY WITH SSM-1 COUNTERTOP/BACKSPLASH
13 PL-1 CABINETRY WITH PL-2 COUNTERTOP
14 WALL-MOUNTED MANUAL PROJECTION SCREEN; B.O.D. IS DRAPER LUMA 2 NTSC FORMAT 150" DIAGONAL SCREEN
15 EXISTING PROJECTION SCREEN AND PROJECTOR TO REMAIN
16 ALL CASEWORK IN THIS ROOM TO BE PL-1 CABINETRY WITH SSM-1 COUNTERTOP/BACKSPLASH
17 REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT SCOPE AND INFORMATION
18 MOBILE MONITOR, BY OWNER
19 A-8 & A-9: SLIDE-IN ELECTRIC RANGE WITH RECIRCULATING HOOD ABOVE; REFER TO APPLIANCE SCHEDULE ON A7S.01
20 EXISTING BLEACHERS TO REMAIN
21 NEW MILLWORK RECEPTION DESK, REFER TO A7.07 FOR DETAILS AND ELEVATIONS
22 INSTALL NEW BI-PARTING STAGE CURTAIN (SC-1) ON EXISTING TRACK; APPROX. 19'-0"H, VERIFY IN FIELD
23 INSTALL (5) NEW TRAVELING BACK STAGE CURTAINS (SC-2) ON EXISTING TRACKS IN EXISTING CONFIGURATION; APPROX. 19'-0"H, VERIFY IN FIELD
24 A-6 & A-7: UNDER-COUNTER ICE MAKER WITH RO SYSTEM; HOUSE RO SYSTEM IN ADJACENT BASE CABINET; REFER TO APPLIANCE SCHEDULE ON A7S.01
25 A-1: REFRIGERATOR, REFER TO APPLIANCE SCHEDULE ON A7S.01
26 A-3: MICROWAVE, REFER TO APPLIANCE SCHEDULE ON A7S.01
27 A-5: ADA-COMPLIANT UNDER-COUNTER REFRIGERATOR, REFER TO APPLIANCE SCHEDULE ON A7S.01
28 A-4: UNDER-COUNTER REFRIGERATOR, REFER TO APPLIANCE SCHEDULE ON A7S.01
29 EXISTING DISPLAY CASE TO REMAIN, REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION
30 PL-1 CABINETRY, REFER TO A7S.01 FOR CASEWORK SCHEDULE
31 PL-1 PLASTIC LAMINATE CUBBIES (WC-01) WITH HOOKS MOUNTED BELOW; REFER TO TYPICAL ELEVATION 8/A7.09 AND DETAILS ON A7.07
32 9"H DIMENSIONAL LETTERS, REFER TO ELEVATIONS FOR DESIGNATION
33 CUBICLE CURTAINS AND TRACK, REFER TO A7.06 FOR TRACK DETAIL
34 RECESSED CEILING-MOUNTED ELECTRIC PROJECTION SCREEN; B.O.D. IS DRAPER LUMA 2 NTSC FORMAT 10' DIAGONAL SCREEN - INCLUDE 30" DROP
35 EXISTING ROLLER WINDOW SHADES TO REMAIN
36 EXISTING SCOREBOARD TO REMAIN
37 A-2: REFRIGERATOR, REFER TO APPLIANCE SCHEDULE ON A7S.01
38 VENDING MACHINE, BY OWNER
39 60"H SINGLE-SIDED BOOKSHELVES (MC-3) BUILT IN TO RECESS, REFER TO ELEVATIONS
40 ALL CASEWORK IN THIS ROOM TO BE PL-1 CABINETRY WITH SSM-3 COUNTERTOP/BACKSPLASH
41 WALL-MOUNTED, HEIGHT-ADJUSTABLE FOLDING CHANGING TABLE; OWNER-FURNISHED AND CONTRACTOR INSTALLED. BASIS OF DESIGN IS PRESSALIT MODEL R8972000
42 FIRST MAKER SPACE VEX IQ TABLE, PROVIDED AND INSTALLED BY OWNER
43 LOCATION OF CEILING STRUCTURE FOR OWNER-PROVIDED SENSORY SWING; REFER TO STRUCTURAL DRAWINGS
44 INSTALL NEW MARBLE WINDOW SILL
45 SOLID SURFACE SILL, SSM-1; REFER TO DETAIL 9/A5.08

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

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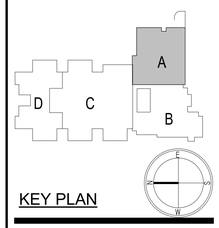

BID SET

PAUL A. MILLER REGISTERED No. 11300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

PROJECT NUMBER: 222033.00

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REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT A - FIRST FLOOR EQUIPMENT PLAN

A7.01

UNIT C EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

ROOM LEGEND - UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1,928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLL/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF

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45 SOLID SURFACE SILL, SSM-1, REFER TO DETAIL 5/A5.08 1

ROOM LEGEND - UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
234	DE-ESCALATION	133 SF
235	STEAM LAB	1,651 SF
236	DISCOVERY CENTER	2,667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1,227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1,192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2,462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2,118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

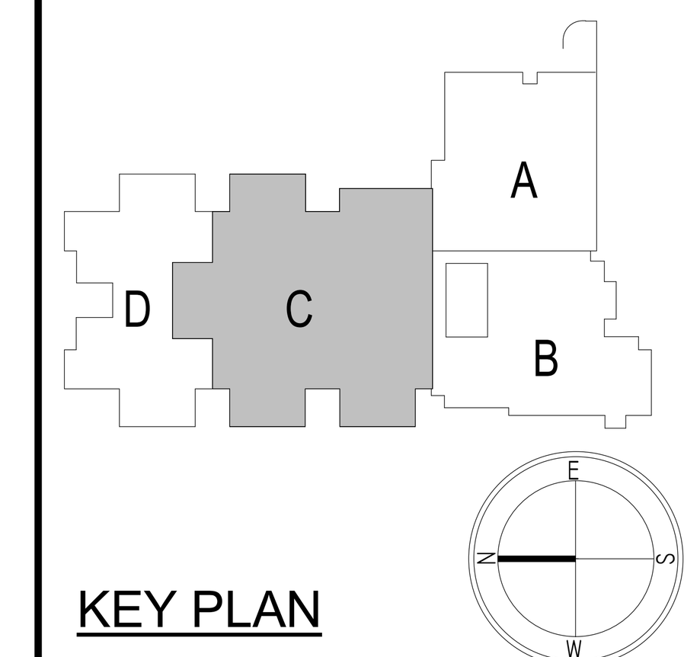
900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST, INDIANAPOLIS, IN 46204



KEY PLAN

BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS
DRAWN BY: AML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT C - FIRST FLOOR EQUIPMENT PLAN

A7.03

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

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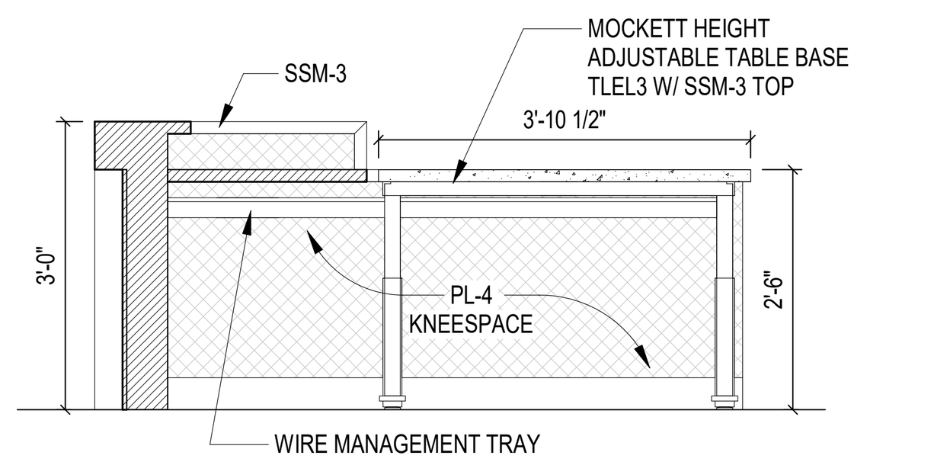
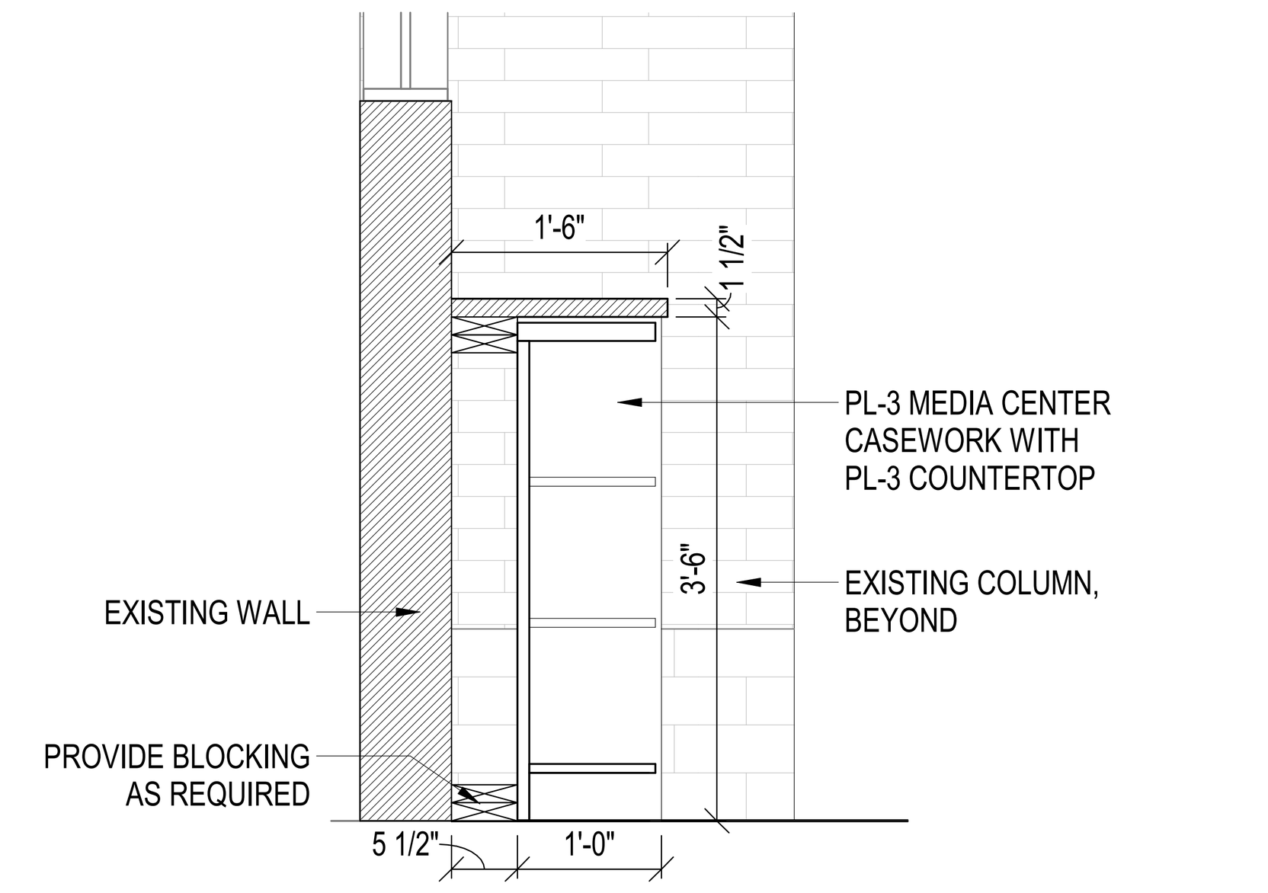


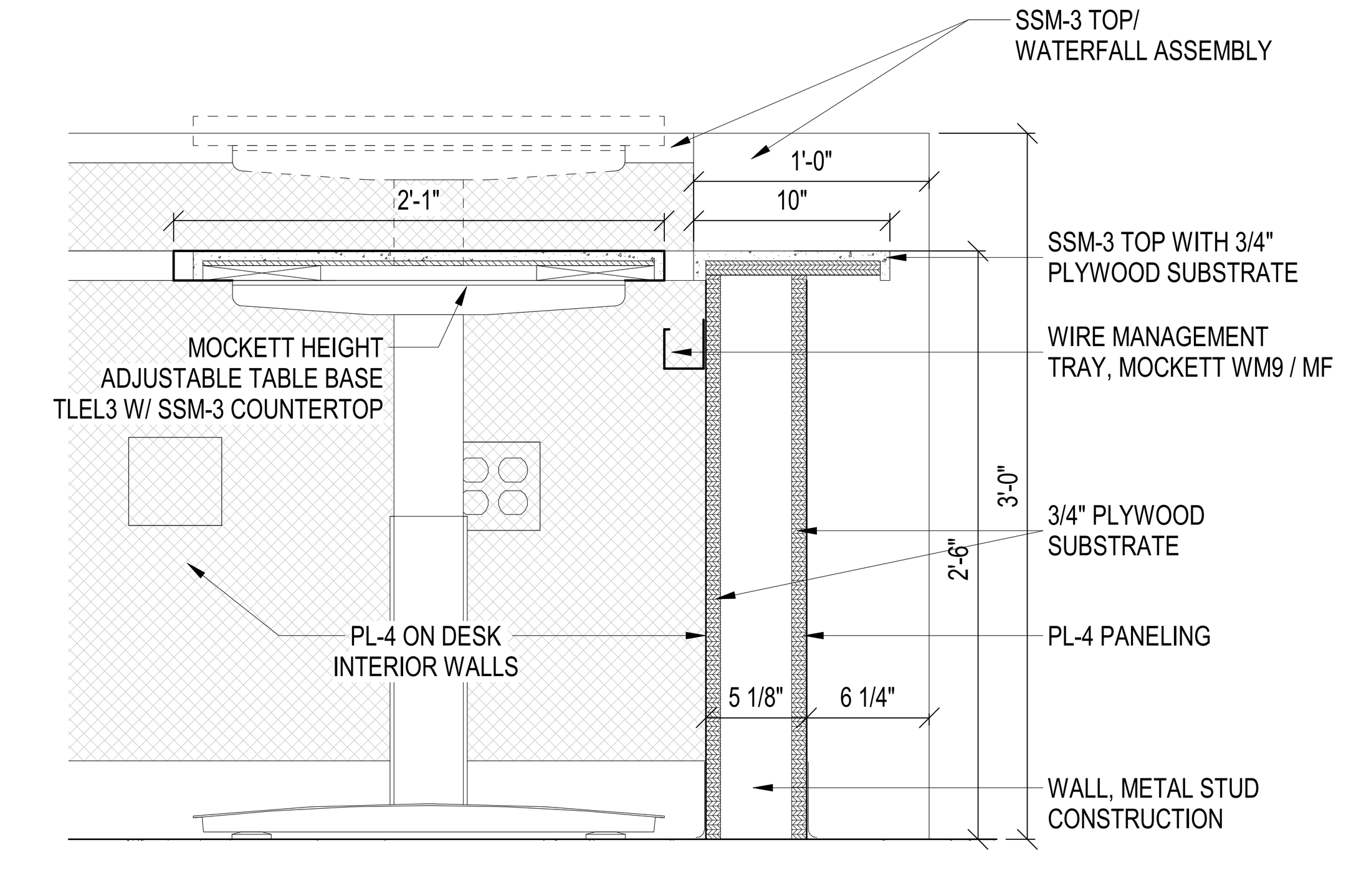
11 DESK - INTERIOR

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



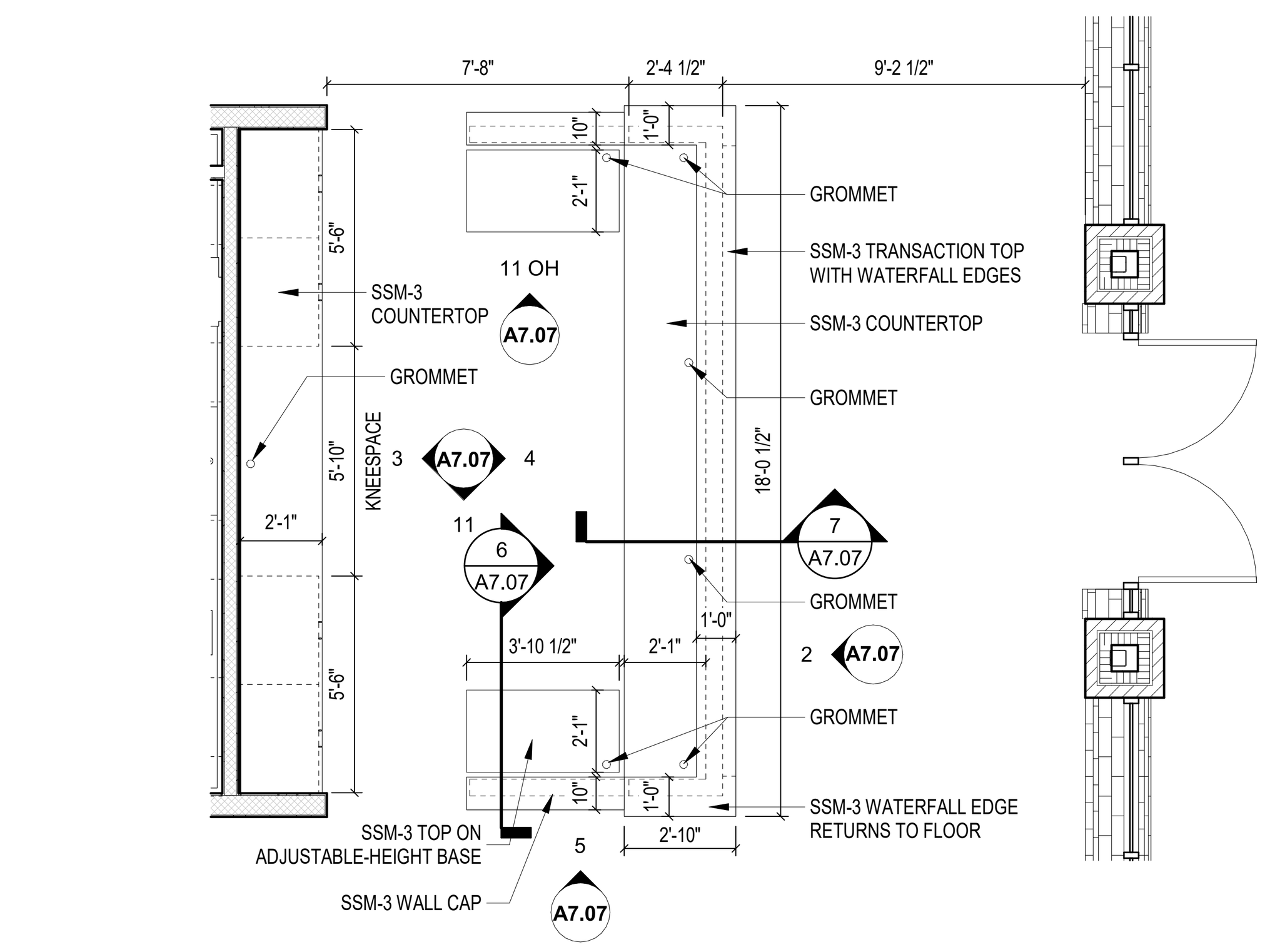
9 DISCOVERY CENTER SHELVING

SCALE: 3/4" = 1'-0"



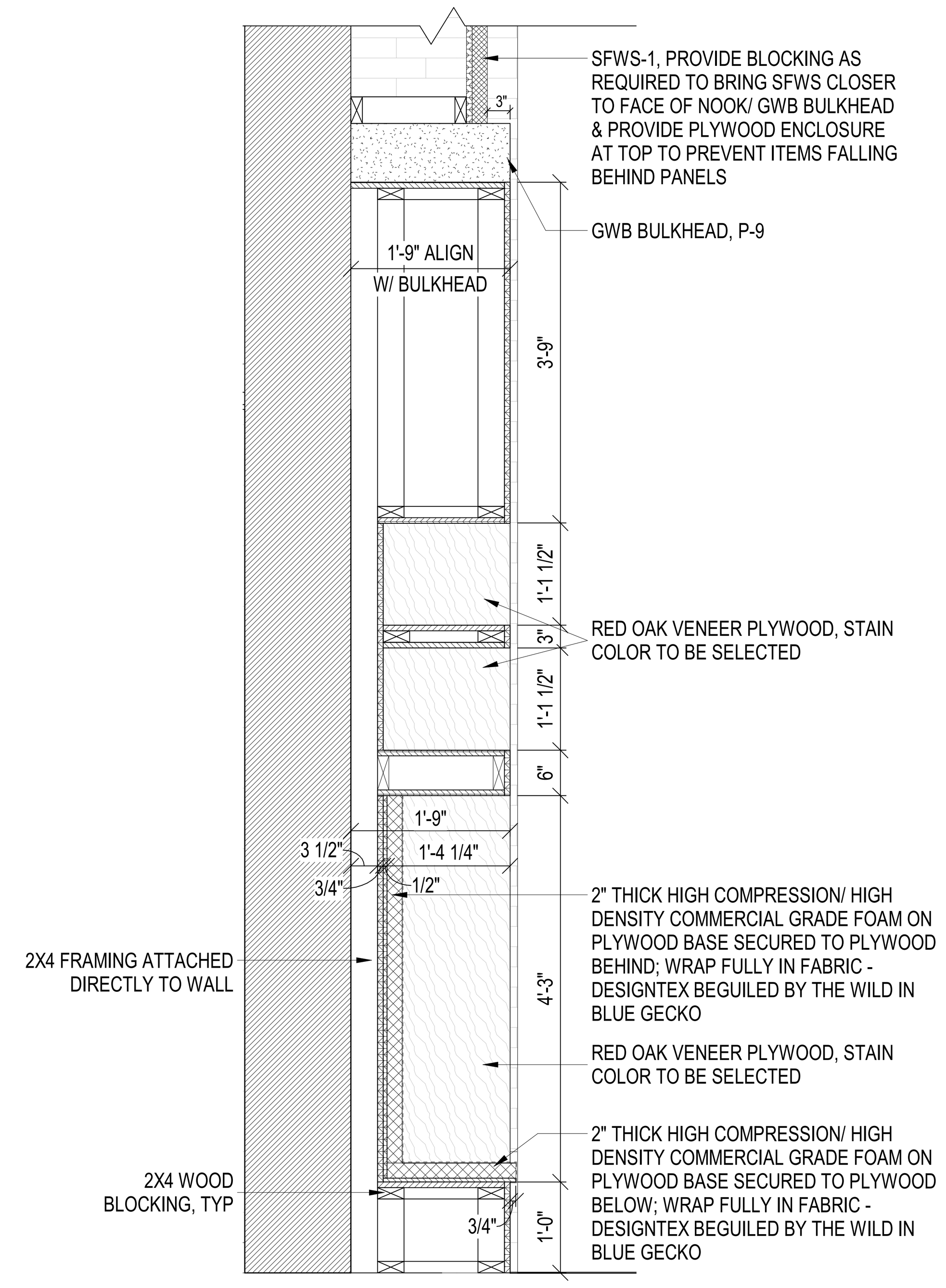
6 RECEPTION DESK - SECTION 1

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



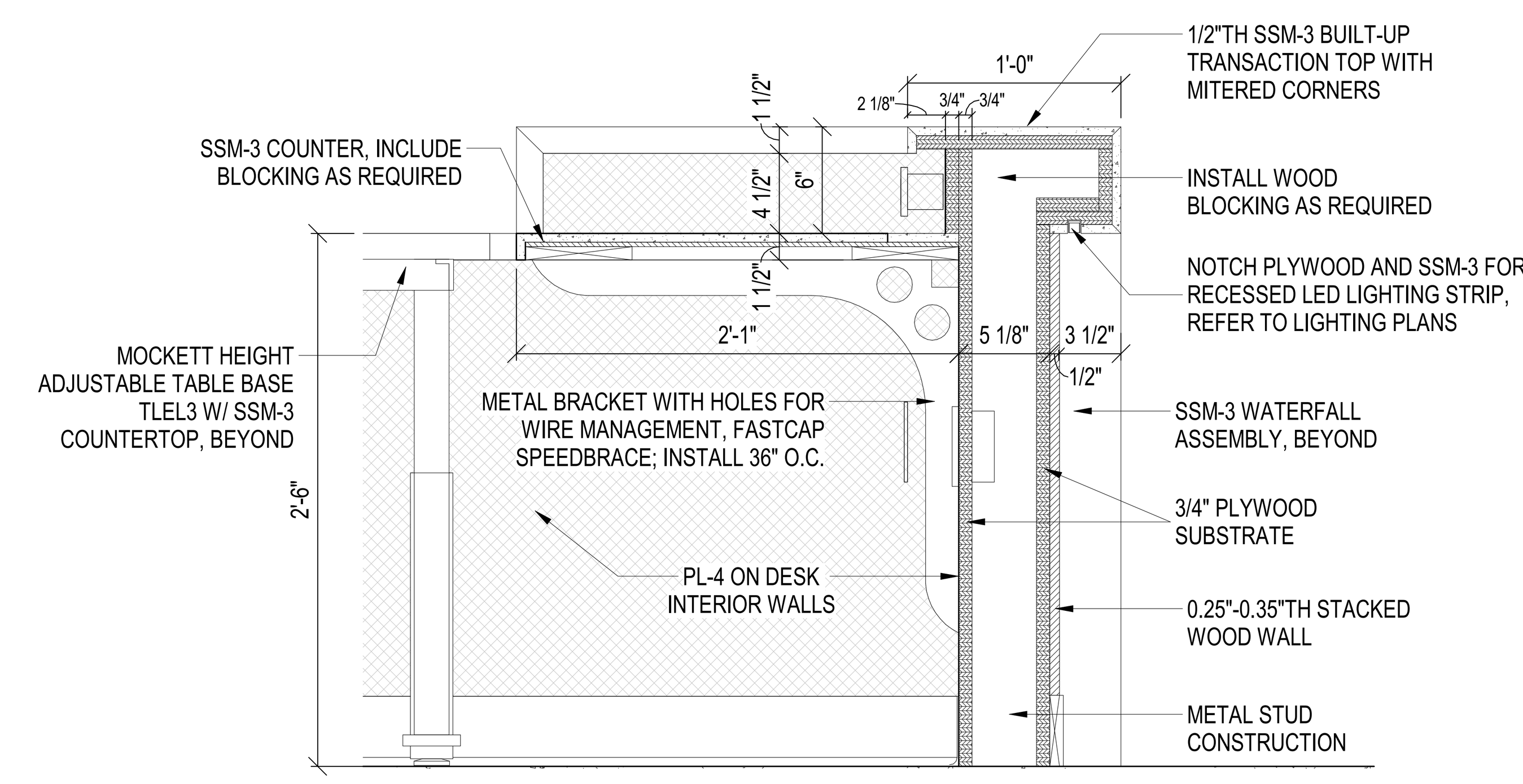
1 RECEPTION DESK - ENLARGED PLAN

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



10 NOOK DETAIL

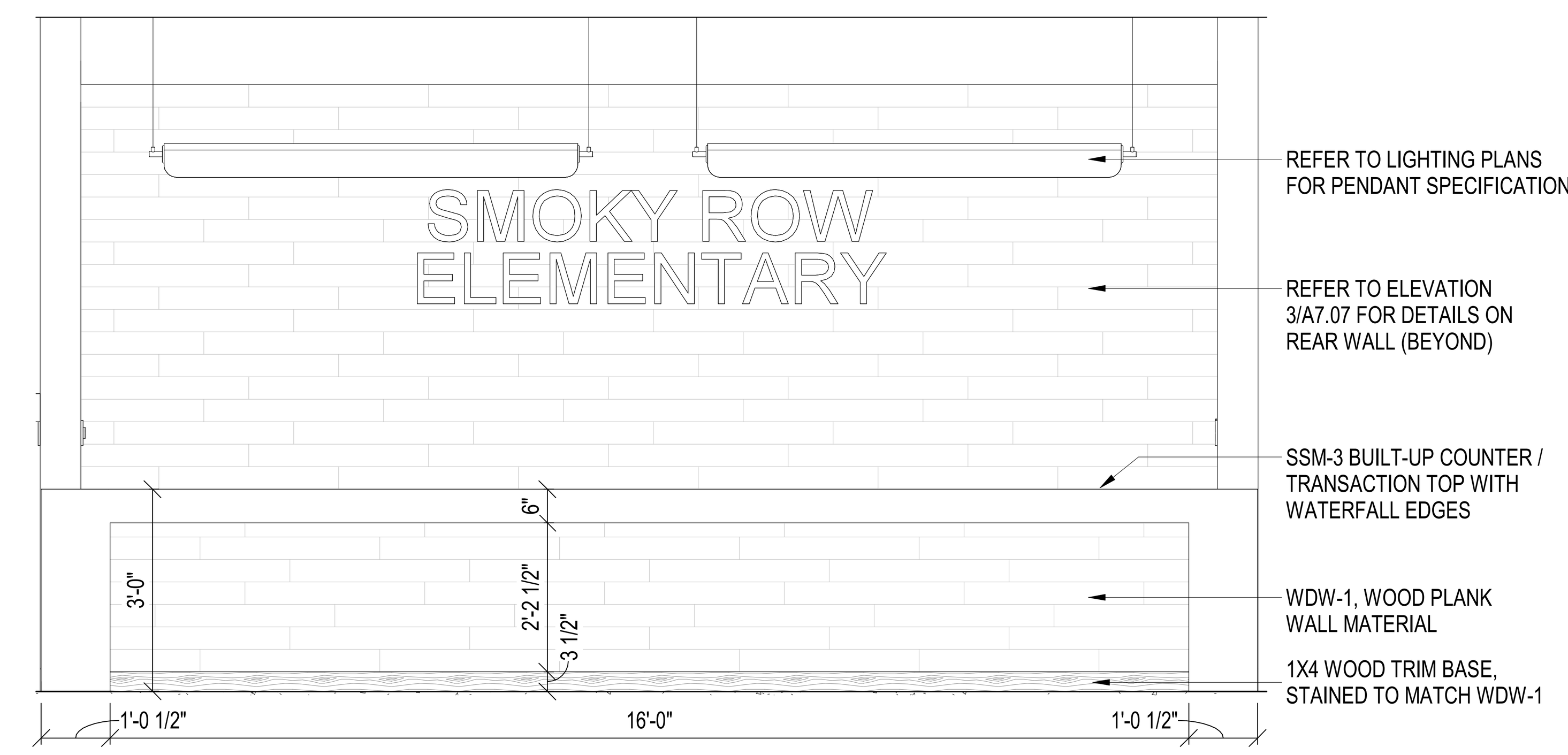
SCALE: 3/4" = 1'-0"



7 RECEPTION DESK - SECTION 2

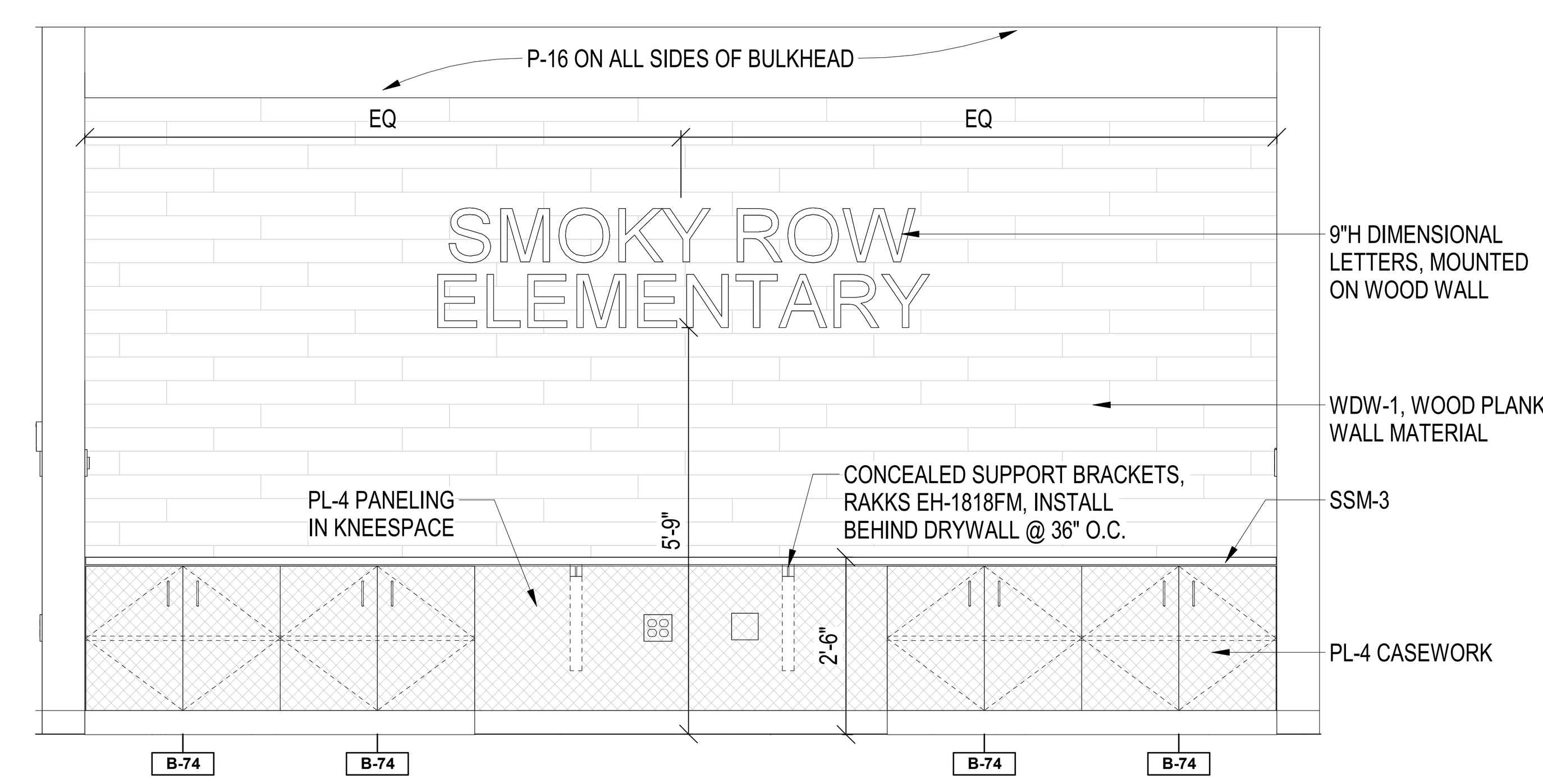
SCALE: 1 1/2" = 1'-0"

DETAIL REMOVED IN ADDENDUM #1



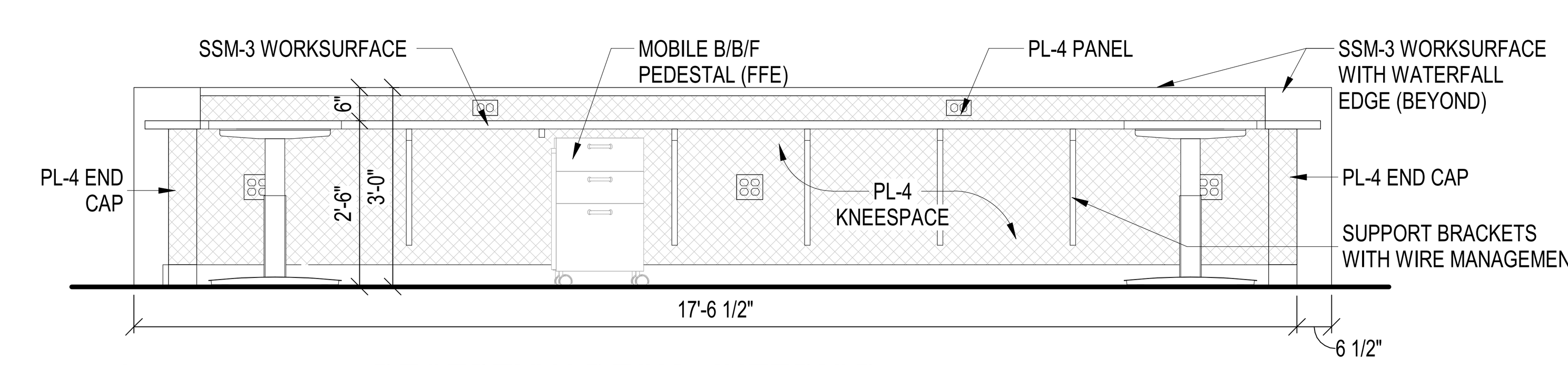
2 RECEPTION DESK - FRONT

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



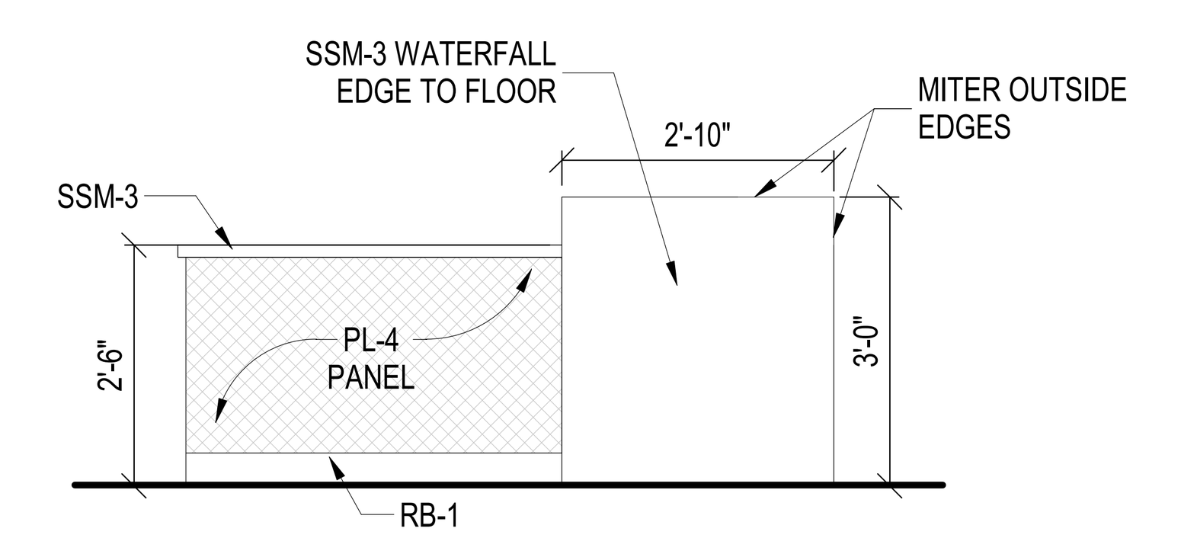
3 RECEPTION - CASEWORK WALL

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



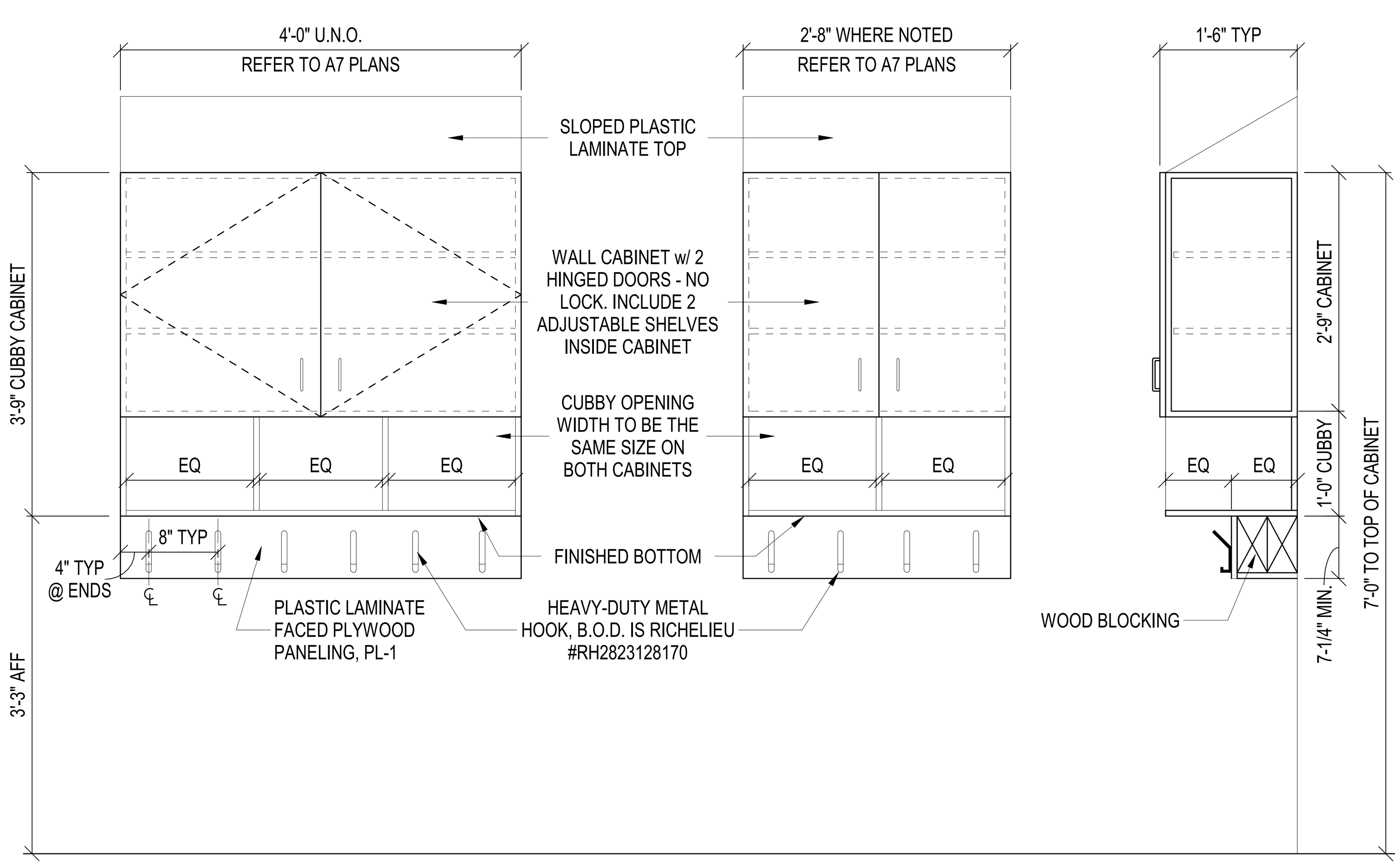
4 RECEPTION DESK - INTERIOR

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



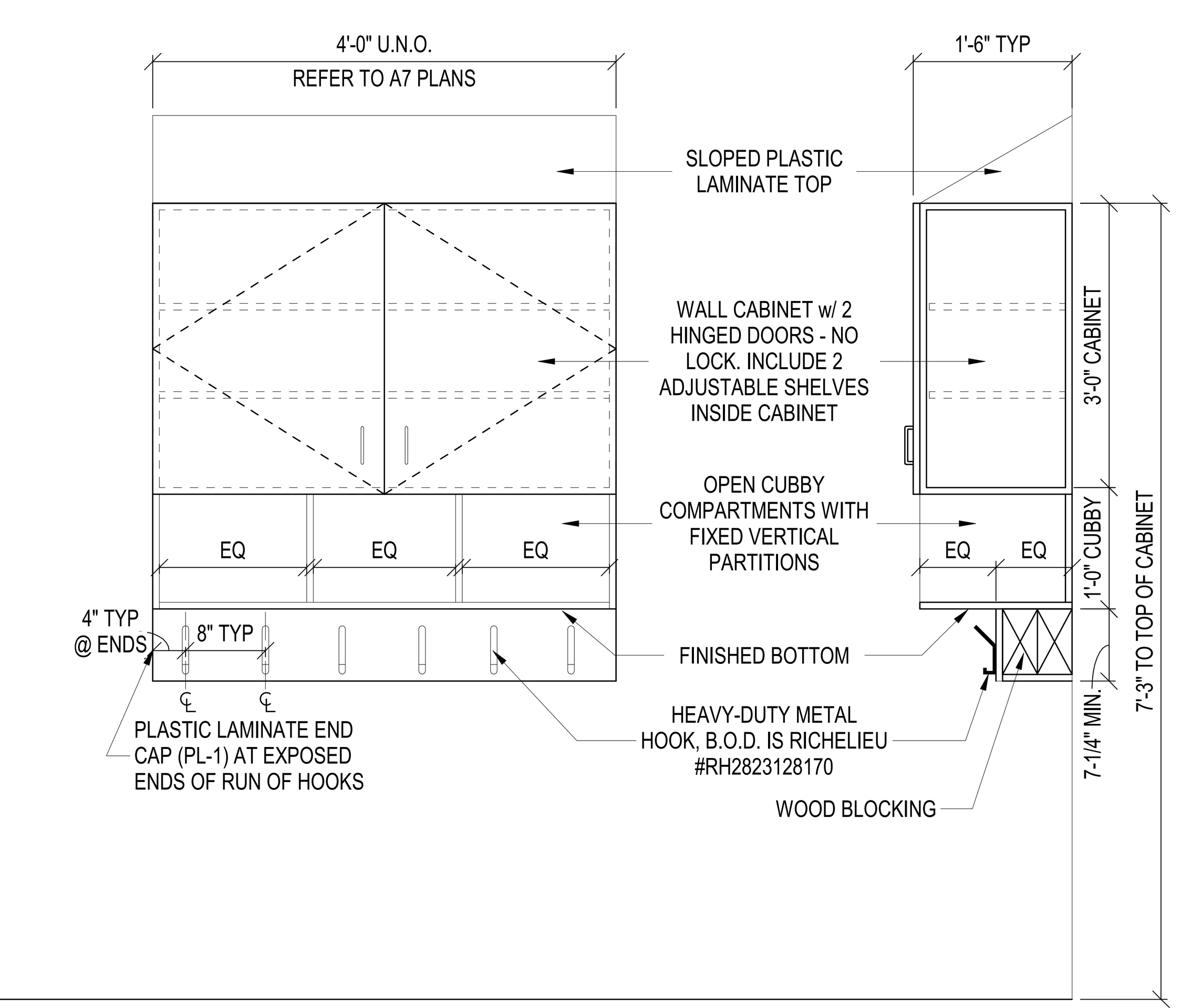
5 RECEPTION DESK - SIDE

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



STUDENT CUBBY (WC-02 & WC-03) - DETAIL

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ORIENTATION



STUDENT CUBBY (WC-01) - DETAIL

* NOT TO SCALE
* PROVIDE UNDER EDUCATION CASEWORK-DIVISION 12
* REFER TO CASEWORK ELEVATIONS FOR ORIENTATION

BID SET

PAUL A. MILLER REGISTERED No. AR10200161 STATE OF INDIANA ARCHITECT

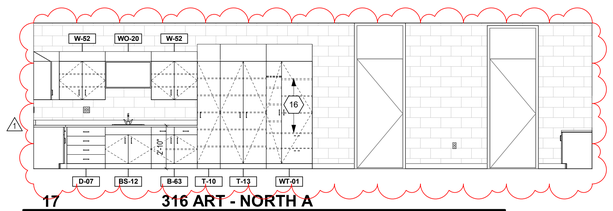
PROJECT MANAGER: KRS
DRAWN BY: AML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

EQUIPMENT DETAILS

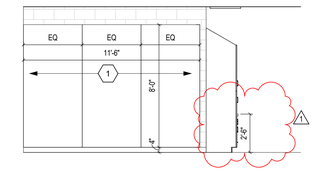
A7.07

\\data1\ctmprofiles$\alampkin\my documents\2025_ARCH_222033.00_alampkinsLJZJ5.rvt
12/19/2025 11:52:54 AM



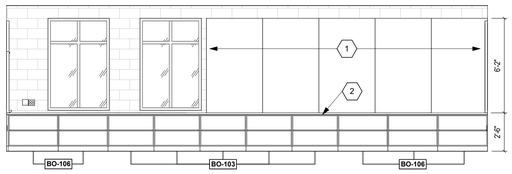
17 316 ART - NORTH A

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



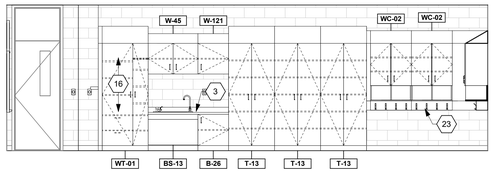
18 316 ART - NORTH B

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



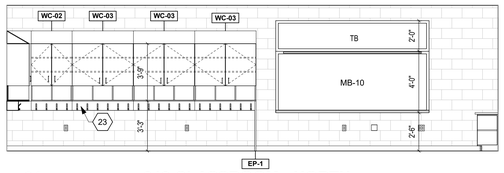
19 319 CLASSROOM - EAST

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



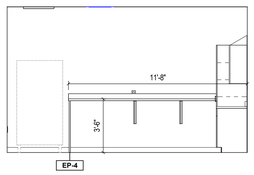
20 319 CLASSROOM - WEST

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



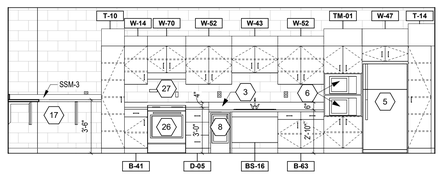
21 319 CLASSROOM - NORTH

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



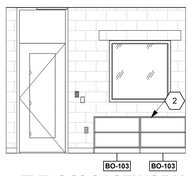
22 STAFF LOUNGE - SOUTH

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



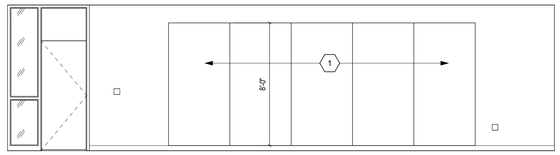
23 STAFF LOUNGE - WEST

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



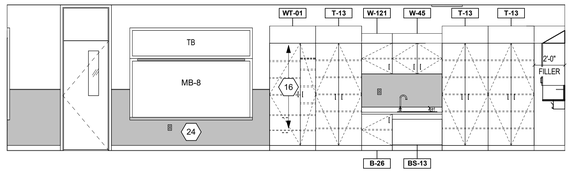
24 TYP SGI CASEWORK

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



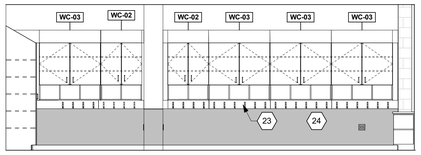
9 LARGE GROUP INSTRUCTION - WEST

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



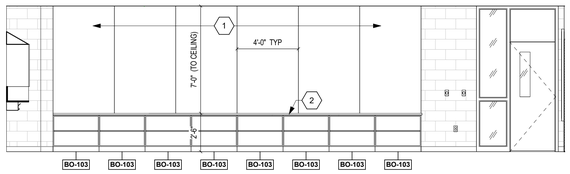
10 121 CLASSROOM - EAST

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



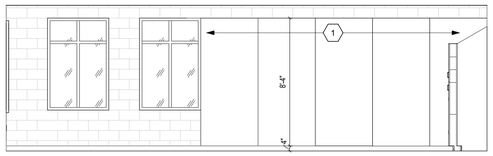
11 121 CLASSROOM - SOUTH

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



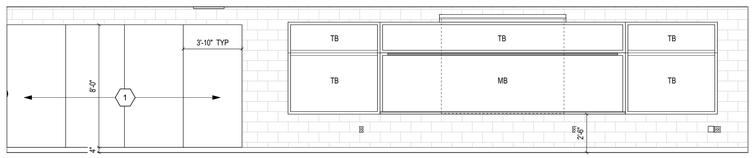
12 121 CLASSROOM - WEST

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



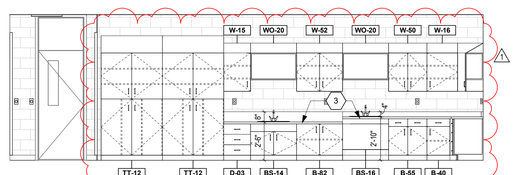
13 315 MUSIC - EAST

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



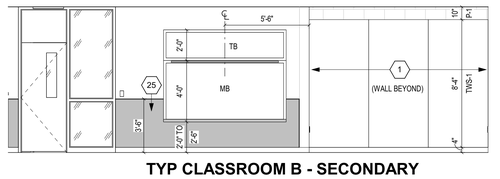
14 315 MUSIC - NORTH

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



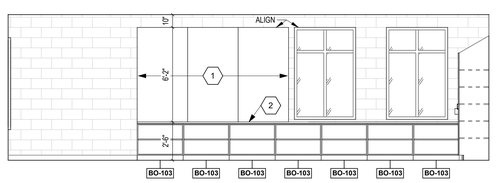
5 TYP CLASSROOM B - SINK WALL

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



6 TYP CLASSROOM B - SECONDARY TEACHING WALL

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

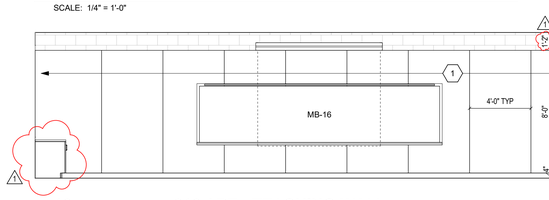


7 TYP CLASSROOM B - BOOKCASES

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

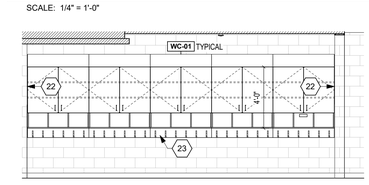
15 316 ART - WEST

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



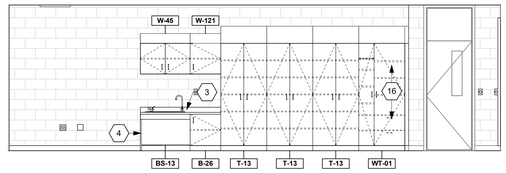
16 316 ART - TEACHING WALL

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



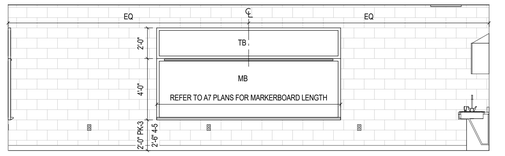
8 TYP CUBBIES

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



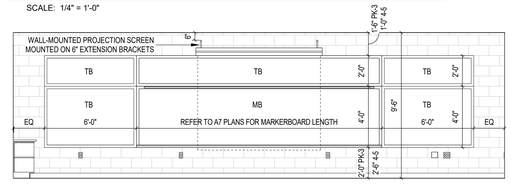
1 TYP CLASSROOM A - SINK WALL

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



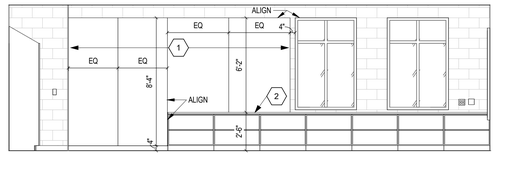
2 TYP CLASSROOM A - SECONDARY TEACHING WALL

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



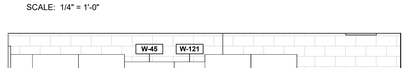
3 TYP CLASSROOM - TEACHING WALL

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



4 CLASSROOM A - BOOKCASES

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



INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. TACKABLE WALL SURFACE (TWS-1), REFER TO A7 PLANS FOR LENGTH.
2. PLASTIC LAMINATE (PL-1) CASEWORK WITH PLASTIC LAMINATE (PL-2) TOPS.
3. PLASTIC LAMINATE (PL-1) CASEWORK WITH SOLID SURFACE (SSM-1) TOP.
4. 1" THICK PLASTIC LAMINATE END PANEL, TO BE INCLUDED IN OVERALL WIDTH OF SINK BASE CABINET
5. REFRIGERATOR, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
6. MICROWAVE, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
7. COPIER, BY OWNER
8. UNDERCOUNTER ICE MACHINE, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
9. FACE WALL WITH PLASTIC LAMINATE (PL-4) BELOW COUNTER.
11. UNDER COUNTER REFRIGERATOR, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
12. UNDER COUNTER ADA REFRIGERATOR, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
13. 15"D PL-3 PLASTIC LAMINATE SHELF WITH FLOATING SHELF BRACKETS AT 24"O.C.; BRACKET B.O.D. IS RICHELIEU 62401230
14. PLASTIC LAMINATE (PL-3) CASEWORK WITH SOLID SURFACE (SSM-3) TOP.
15. PAINTED ACCENT COLOR. REFER TO A8 PLANS FOR COLOR DESIGNATION
16. INCLUDE LOCKS ON INDICATED CASEWORK
17. OPEN KNEESPACE BELOW COUNTERTOP, REFER TO DETAIL ON A7.06
18. SSM-3 WALL CAP
19. RO SYSTEM, A-2, TO BE HOUSED IN BASE CABINET; REFER TO APPLIANCE SCHEDULE ON A7S.01
20. FILLER/END PANEL, NOTCH AROUND BRICK BASE AS REQUIRED
21. PAINT EXPOSED BRICK IN INDICATED LOCATION ONLY
22. FILLER AS REQUIRED FOR DOOR OPERATION, V.I.F.
23. PLASTIC LAMINATE ASSEMBLY (PL-1) WITH HOOKS AS SHOWN; REFER TO DETAIL ON A7.07
24. HATCH INDICATES EXTENTS OF VWC-2 WAINSCOT, INCLUDE J-TRIM AT TERMINATION; REFER TO A7 PLANS FOR CORNER GUARDS
25. HATCH INDICATES EXTENTS OF VWC-2 WAINSCOT, INCLUDE J-TRIM AT TERMINATION
26. ELECTRIC RANGE, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
27. RECIRCULATING HOOD, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
28. 3" RADIUS ON COUNTERTOP OUTSIDE CORNER

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. A1300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

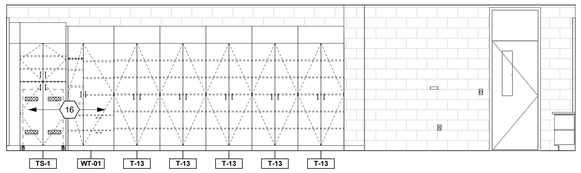
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

CASEWORK & EQUIPMENT ELEVATIONS

A7.09

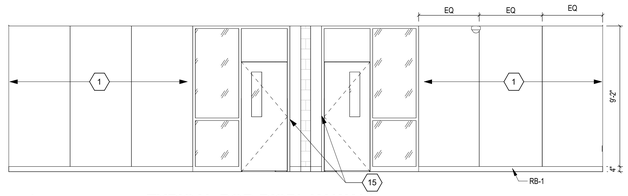


15 315 MUSIC - SOUTH

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

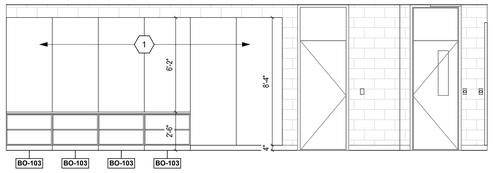
8 111 CLASSROOM - EAST

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



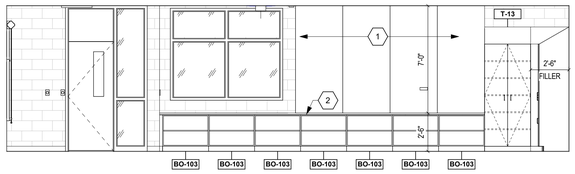
1 TYPICAL POD DISPLAY WALL

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



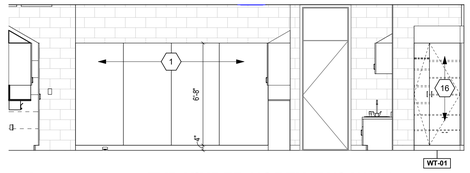
16 315 MUSIC - WEST

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



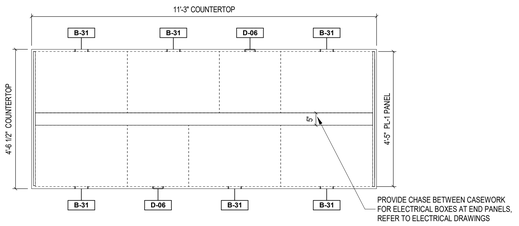
9 111 CLASSROOM - WEST

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



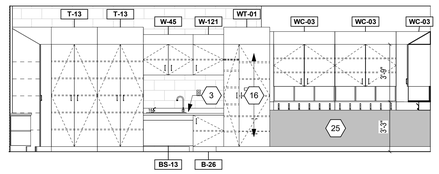
2 TYP KINDER NORTH TWS WALL

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



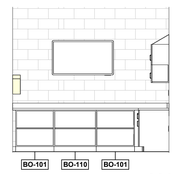
17 WORKROOM ISLAND

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



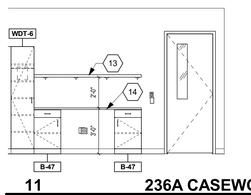
10 111 CLASSROOM - NORTH

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



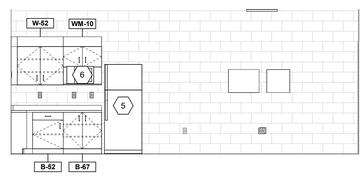
3 306A CUSTODIAL - EAST

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



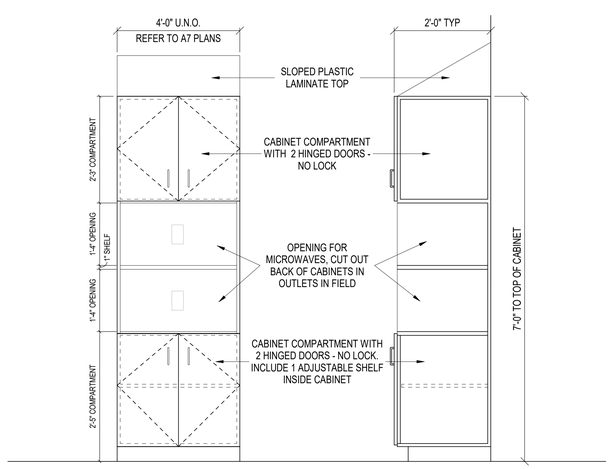
11 236A CASEWORK

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



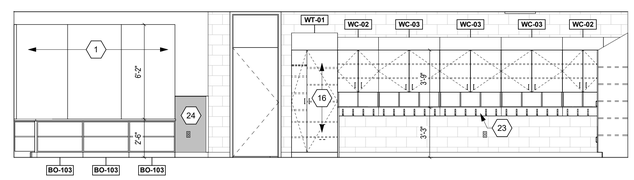
4 306A CUSTODIAL - SOUTH

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



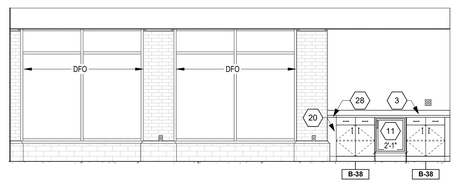
18 TALL MICROWAVE CABINET DETAIL (TM-01)

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



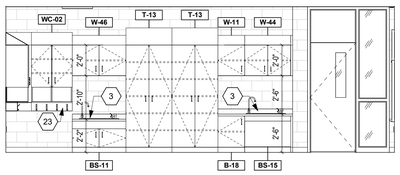
12 E.C. CLASSROOM - CUBBIES

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



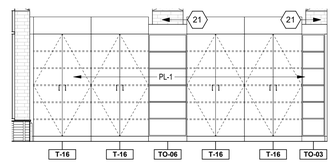
5 LARGE CONFERENCE CASEWORK

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



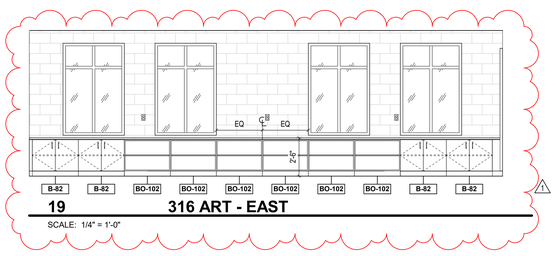
13 E.C. CLASSROOM - SINK WALL

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



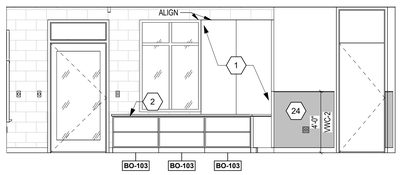
6 212 CASEWORK

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



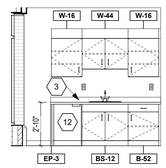
19 316 ART - EAST

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



14 E.C. CLASSROOM - BOOKCASES

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



7 302 CASEWORK

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

INTERIOR ELEVATION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. TACKABLE WALL SURFACE (TWS-1), REFER TO A7 PLANS FOR LENGTH.
2. PLASTIC LAMINATE (PL-1) CASEWORK WITH PLASTIC LAMINATE (PL-2) TOPS.
3. PLASTIC LAMINATE (PL-1) CASEWORK WITH SOLID SURFACE (SSM-1) TOP.
4. 1" THICK PLASTIC LAMINATE END PANEL, TO BE INCLUDED IN OVERALL WIDTH OF SINK BASE CABINET.
5. REFRIGERATOR, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
6. MICROWAVE, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
7. COPIER, BY OWNER
8. UNDERCOUNTER ICE MACHINE, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
9. FACE WALL WITH PLASTIC LAMINATE (PL-4) BELOW COUNTER.
11. UNDER COUNTER REFRIGERATOR, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
12. UNDER COUNTER ADA REFRIGERATOR, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
13. 15"D PL-3 PLASTIC LAMINATE SHELF WITH FLOATING SHELF BRACKETS AT 24"O.C.; BRACKET B.O.D. IS RICHELIEU 62401230
14. PLASTIC LAMINATE (PL-3) CASEWORK WITH SOLID SURFACE (SSM-3) TOP.
15. PAINTED ACCENT COLOR. REFER TO A8 PLANS FOR COLOR DESIGNATION
16. INCLUDE LOCKS ON INDICATED CASEWORK
17. OPEN KNEESPACE BELOW COUNTERTOP, REFER TO DETAIL ON A7.06
18. SSM-3 WALL CAP
19. RO SYSTEM, A-2. TO BE HOUSED IN BASE CABINET; REFER TO APPLIANCE SCHEDULE ON A75.01
20. FILLER/END PANEL, NOTCH AROUND BRICK BASE AS REQUIRED
21. PAINT EXPOSED BRICK IN INDICATED LOCATION ONLY
22. FILLER AS REQUIRED FOR DOOR OPERATION, V.I.F.
23. PLASTIC LAMINATE ASSEMBLY (PL-1) WITH HOOKS AS SHOWN; REFER TO DETAIL ON A7.07
24. HATCH INDICATES EXTENTS OF VWC-2 WAINSCOT, INCLUDE J-TRIM AT TERMINATION; REFER TO A7 PLANS FOR CORNER GUARDS
25. HATCH INDICATES EXTENTS OF VWC-2 WAINSCOT, INCLUDE J-TRIM AT TERMINATION
26. ELECTRIC RANGE, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
27. RECIRCULATING HOOD, REFER TO A7 PLANS FOR ADDITIONAL DETAILS.
28. 3" RADIUS ON COUNTERTOP OUTSIDE CORNER

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. 11300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

CASEWORK & EQUIPMENT ELEVATIONS

A7.10

RESIDENTIAL EQUIPMENT SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION
A-1	**REFRIGERATOR WITH TOP FREEZER** • 18.3 CU.FT. • REVERSIBLE HINGES • DOES NOT INCLUDE ICE MAKER • ADA-COMPLIANT AND ENERGY STAR CERTIFIED • BASIS OF DESIGN IS FRIGIDAIRE FFHT1833VS • 66.375"H x 30"W x 30.375"D • COLOR: STAINLESS STEEL	15AMPS	
A-2	**REFRIGERATOR WITH BOTTOM FREEZER** • 28.8 CU.FT. • DOUBLE DOOR FRIDGE • INCLUDES ICE MAKER • ENERGY STAR CERTIFIED • BASIS OF DESIGN IS FRIGIDAIRE FRFN2823AS • 70"H x 36"W x 35.75"D • COLOR: STAINLESS STEEL	15AMPS	X
A-3	**MICROWAVE** • 2.0 CU.FT. • EXTRA-LARGE TURNTABLE • ELECTRONIC DIGITAL DISPLAY WITH CLOCK • ENERGY STAR QUALIFIED • BASIS OF DESIGN IS GE JES2051SNSS • 24.125"W x 13.625"H X 19.25"D • COLOR: STAINLESS STEEL	1200W	
A-4	**UNDER-COUNTER REFRIGERATOR - STANDARD HEIGHT** • 5.6 CU.FT. • SMALL FREEZER AREA • REVERSIBLE HINGES • ENERGY STAR QUALIFIED • BASIS OF DESIGN IS GE GCE06GSHSB • 34.125"H x 23.625"W x 23.75"D • COLOR: STAINLESS STEEL		
A-5	**UNDER-COUNTER REFRIGERATOR - ADA HEIGHT** • 3.87 CU.FT. • REVERSIBLE HINGES • INCLUDES VISIBLE TEMPERATURE GAUGE • ENERGY STAR QUALIFIED • BASIS OF DESIGN IS HOSHIZAKI HR24C • 31.5"H x 23.375"W x 26.5"D (INCLUDING HANDLE) • COLOR: STAINLESS STEEL	115V/60/1	
A-6	**UNDER-COUNTER ICE MAKER - ADA HEIGHT** • 55LB MAX ICE PRODUCTION PER 24 HOURS • INCLUDES 22LB STORAGE CAPACITY • AIR-COOLED ADA-COMPLIANT ICE MAKER • INCLUDE DOOR REVERSAL PART • BASIS OF DESIGN IS HOSHIZAKI AM-50BAJ-AD • 31.5"H x 14.875"W x 22.625"D • COLOR: STAINLESS STEEL	115V/60/1	X
A-7	**REVERSE OSMOSIS SYSTEM FOR ICE MAKER** • INTEGRATED NON-ELECTRIC PUMP • FILTERS WATER TO AID IN ICE MAKER OPERATION • QUICK CHANGE CARTRIDGE SYSTEM • BASIS OF DESIGN IS 3M WATER FILTRATION PRODUCT SGLP-RO • OVERALL SIZE: 15.375"H x 9.375"W x 12.25"D • COLOR: STAINLESS STEEL		X
A-8	**SLIDE-IN ELECTRIC RANGE** • 5.3CU FT SELF-CLEANING SLIDE IN ELECTRIC RANGE • FOUR GLASS-TOP ELECTRIC BURNERS • ADA-COMPLIANT KNOBS AT FRONT OF COOKTOP • BOTTOM STORAGE DRAWER • BASIS OF DESIGN IS GE JS645SLSS • 36"H x 29.875"W x 25.875"D • COLOR: STAINLESS STEEL	208V OR 240V 40AMPS	
A-9	**RECIRCULATING HOOD** • UNDER-CABINET, RECIRCULATING DUCTLESS HOOD • ADA-COMPLIANT CONTROLS • BASIS OF DESIGN IS BROAN BXT130SS • OVERALL SIZE: 6"H x 29.875"W x 18"D • COLOR: STAINLESS STEEL	120V/60Hz	
A-10	**WASHER** • HIGH-EFFICIENCY, TOP-LOADING ELECTRIC WASHER • EXTRA-LARGE UNIT, 5.2CU FT • REMOVABLE 2-PIECE AGITATOR • INCLUDE NEW DRAIN, COLD WATER SUPPLY, AND HOT WATER SUPPLY HOSES • BASIS OF DESIGN IS WHIRLPOOL WTW6157PW • OVERALL SIZE: 27.375"W x 28"D x 42"H OVERALL • COLOR: WHITE	120V/60Hz	
A-11	**DRYER** • VENTED ELECTRIC DRYER WITH STEAM CYCLE • 7CUFT • BASIS OF DESIGN IS WHIRLPOOL WED6150PW • OVERALL SIZE: 29"W x 28.375"D x 40.5"H OVERALL • COLOR: WHITE	120/240V 60Hz	

CASEWORK SCHEDULE

TYPE	NO.	SIZE W	SIZE D	SIZE H	DESCRIPTION
		<varies>	<varies>	<varies>	
B	10	1'-6"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	15	2'-0"	2'-6"	2'-10"	BASE UNIT WITH TWO DRAWERS. ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	18	1'-9"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	26	2'-0"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	27	2'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
B	31	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	38	2'-6"	2'-0"	3'-0"	BASE UNIT WITH TWO DRAWERS. ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	40	1'-6"	2'-0"	2'-10"	BASE UNIT WITH ONE DRAWER. ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	41	1'-6"	2'-0"	3'-0"	BASE UNIT WITH ONE DRAWER. ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	43	1'-6"	2'-6"	2'-10"	BASE UNIT WITH ONE DRAWER. ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	47	1'-9"	2'-0"	3'-0"	BASE UNIT WITH ONE DRAWER. ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	52	2'-0"	2'-0"	2'-10"	BASE UNIT WITH ONE DRAWER. ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	55	2'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS AND TWO HINGED DOORS. DO NOT INCLUDE SHELVES.
B	63	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS. ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	67	2'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	74	2'-9"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	75	2'-9"	2'-0"	2'-10"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
B	80	3'-0"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS. INCLUDE CUTOUT FOR TECH/ELEC, COORDINATE IN FIELD
B	82	3'-0"	2'-0"	2'-6"	BASE UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
BO	101	2'-6"	1'-1"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	102	3'-0"	1'-11"	2'-6"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	103	3'-0"	1'-5"	2'-6"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	104	2'-9"	1'-5"	2'-6"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	105	3'-6"	1'-5"	2'-6"	OPEN BASE UNIT WITH ONE VERTICAL DIVIDER AND TWO ADJUSTABLE SHELVES.
BO	106	3'-3"	1'-5"	2'-6"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	110	2'-9"	1'-1"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BS	10	3'-0"	2'-0"	2'-6"	SINK BASE UNIT WITH TWO HINGED DOORS.
BS	11	2'-6"	2'-0"	2'-2"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	12	3'-0"	2'-0"	2'-10"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	13	3'-3"	2'-0"	2'-0"	CHILD ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL. WHERE CABINET IS INDICATED WITH END PANEL, INCLUDE END PANEL IN WIDTH OF CABINET.
BS	14	3'-0"	2'-0"	2'-6"	SINK BASE UNIT WITH TWO HINGED DOORS AND ONE BLANK DRAWER PANEL.
BS	15	3'-0"	2'-0"	2'-0"	CHILD ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL.
BS	16	3'-0"	2'-0"	2'-0"	ADULT ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL.
D	02	1'-6"	2'-0"	2'-10"	DRAWER UNIT WITH THREE EQUAL DRAWERS. 6-1/2 INCHES DEEP INSIDE.
D	03	1'-9"	2'-0"	2'-6"	DRAWER UNIT WITH THREE EQUAL DRAWERS. 5-1/2 INCHES DEEP INSIDE.
D	04	3'-0"	2'-0"	2'-10"	DRAWER UNIT WITH THREE EQUAL DRAWERS. 6-1/2 INCHES DEEP INSIDE.
D	05	1'-6"	2'-0"	3'-0"	DRAWER UNIT WITH THREE EQUAL DRAWERS. 7-1/2 INCHES DEEP INSIDE.
D	06	2'-0"	2'-0"	2'-10"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 4-1/2 INCHES DEEP INSIDE.
D	07	2'-6"	2'-0"	2'-10"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 4-1/2 INCHES DEEP INSIDE.
DF	2	1'-4"	2'-0"	2'-10"	FILE DRAWER UNIT WITH FOLLOWERS. TWO EQUAL DRAWERS AND HANGER CHANNEL INTEGRAL WITH DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING. INCLUDE LOCKS ON THIS CABINET.
DF	3	1'-3"	2'-6"	2'-10"	FILE DRAWER UNIT WITH FOLLOWERS. TWO EQUAL DRAWERS (INSIDE SIDES TO BE 9-3/4 INCHES HIGH), AND HANGER CHANNEL INTEGRAL WITH DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING.
EP	1	3/4"	1'-5"	2'-9"	3/4" THICK END PANEL TO COVER DISTANCE FROM FLOOR TO BOTTOM OF CUBBY CABINET
EP	2	3/4"	2'-0"	7'-0"	3/4" THICK END PANEL TO COVER SIDES OF REFRIGERATOR
EP	3	3/4"	2'-0"	2'-10"	3/4" THICK END PANEL TO COVER DISTANCE FROM FLOOR TO BOTTOM OF COUNTERTOP
EP	4	3/4"	2'-0"	3'-6"	3/4" THICK END PANEL TO COVER DISTANCE FROM FLOOR TO BOTTOM OF COUNTERTOP
EP	5	3/4"	2'-0"	2'-6"	3/4" THICK END PANEL TO COVER DISTANCE FROM FLOOR TO BOTTOM OF COUNTERTOP
FX	01	3'-0"	1'-0 3/4"	2'-6"	MAILBOX UNIT WITH 33 OPENINGS. REFER TO DETAIL ON A7.06
T	10	1'-6"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED DOOR. INCLUDE SLOPED TOP.
T	11	2'-6"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS. INCLUDE SLOPED TOP.
T	12	2'-9"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES, TWO HINGED DOORS, AND SLOPED TOP.
T	13	3'-0"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES, TWO HINGED DOORS, AND SLOPED TOP.
T	14	1'-6"	2'-6"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED DOOR.
T	16	3'-9"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS. INCLUDE SLOPED TOP.
T	18	3'-3"	2'-6"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS. INCLUDE SLOPED TOP.
T	30	2'-6"	2'-3"	7'-0"	TALL DOOR/DRAWER UNIT WITH A FIXED SHELF ABOVE DRAWERS. PROVIDE THREE ADJUSTABLE SHELVES, REMOVABLE COAT ROD, AND TWO HINGED DOORS AT UPPER CABINET AND THREE DRAWERS BELOW WITH BOTTOM DRAWER AT GREATER DEPTH. INCLUDE LOCKS ON THIS CABINET.
T	511	3'-0"	1'-9"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS.
TM	01	2'-6"	2'-0"	7'-0"	TALL SPLIT DOOR STORAGE WITH ONE FIXED SHELF. AT THE UPPER CABINET, PROVIDE THREE ADJUSTABLE SHELVES AND TWO HINGED DOORS. AT THE LOWER CABINET, PROVIDE ONE ADJUSTABLE SHELF AND TWO HINGED DOORS. REFER TO DETAIL 18/A7.10.
TO	02	3'-0"	1'-5"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES. INCLUDE SLOPED TOP.
TO	03	1'-6"	1'-2"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES. INCLUDE SLOPED TOP.
TO	05	3'-6"	1'-5"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES. INCLUDE SLOPED TOP.
TO	06	2'-6"	1'-2"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES. INCLUDE SLOPED TOP.
TO	111	2'-6"	1'-5"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES. INCLUDE SLOPED TOP.
TS	1	3'-0"	2'-6"	7'-0"	TALL SOUND RACK CABINET WITH ONE FIXED SHELF. AT THE UPPER CABINET, PROVIDE THREE ADJUSTABLE SHELVES AND TWO HINGED DOORS. AT THE LOWER CABINET, PROVIDE TWO HINGED DOORS. OPEN TOE KICK. REFER TO DETAIL ON A7.06
TT	10	4'-0"	2'-6"	7'-0"	TOTE TRAY UNIT WITH TWO VERTICAL DIVIDERS TWO HINGED DOORS. FLAT TOP.
TT	12	4'-0"	2'-0"	7'-0"	TOTE TRAY UNIT WITH TWO VERTICAL DIVIDERS TWO HINGED DOORS. INCLUDE SLOPED TOP.
W	11	1'-9"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR. INCLUDE SLOPED TOP.
W	13	1'-3"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELVES, ONE HINGED DOOR AND SLOPED TOP.
W	14	2'-6"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF, ONE HINGED DOOR, AND SLOPED TOP.
W	15	1'-9"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR. INCLUDE SLOPED TOP.
W	16	2'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF, ONE HINGED DOOR, AND SLOPED TOP.
W	43	3'-0"	1'-2"	1'-9"	WALL UNIT WITH ONE ADJUSTABLE SHELF, TWO HINGED DOORS, AND SLOPED TOP.
W	44	3'-0"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF, TWO HINGED DOORS, AND SLOPED TOP.
W	45	3'-3"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	46	3'-6"	1'-2"	2'-0"	WALL UNIT WITH ONE VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS. INCLUDE SLOPED TOP.
W	47	3'-0"	2'-0"	1'-0"	WALL UNIT WITH TWO HINGED DOORS AND SLOPED TOP.
W	50	2'-6"	1'-2"	2'-6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES, TWO HINGED DOORS, AND SLOPED TOP.
W	52	3'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF, TWO HINGED DOORS, AND SLOPED TOP.
W	56	4'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS. INCLUDE SLOPED TOP.
W	70	2'-6"	1'-2"	1'-9"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS. INCLUDE SLOPED TOP.
W	88	2'-9"	1'-2"	2'-6"	WALL UNIT WITH TWO ADJUSTABLE SHELVES, TWO HINGED DOORS, AND SLOPED TOP.
W	121	2'-0"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR. INCLUDE SLOPED TOP.
WC	01	4'-0"	1'-6"	3'-0"	WALL UNIT WITH UPPER COMPARTMENT THAT INCLUDES A CENTER DIVIDER WITH TWO ADJUSTABLE SHELVES ON EACH SIDE AND TWO HINGED DOORS; LOWER COMPARTMENT INCLUDES 3 OPEN CUBBIES BELOW; INCLUDE SLOPED TOP AND HOOK ASSEMBLY. REFER TO DETAIL ON A7.07.
WC	02	2'-8"	1'-3"	2'-9"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS ON UPPER COMPARTMENT; 2 OPEN CUBBIES BELOW; INCLUDE SLOPED TOP AND HOOK ASSEMBLY. REFER TO DETAIL ON A7.07.
WC	03	4'-0"	1'-3"	2'-9"	WALL UNIT WITH UPPER COMPARTMENT THAT INCLUDES A CENTER DIVIDER WITH TWO ADJUSTABLE SHELVES ON EACH SIDE AND TWO HINGED DOORS; LOWER COMPARTMENT INCLUDES 3 OPEN CUBBIES BELOW; INCLUDE SLOPED TOP AND HOOK ASSEMBLY. REFER TO DETAIL ON A7.07.
WDT	6	1'-6"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED DOOR. INCLUDE REMOVABLE COAT ROD AND MIRROR MOUNTED TO BACKSIDE OF DOOR.
WM	10	2'-6"	1'-2"	1'-4"	MICROWAVE CABINET WITH 2 UPPER DOORS AND 22"D OPEN SHELF BELOW. INCLUDE SLOPED TOP AND CUTOUT FOR OUTLET.
WO	20	3'-0"	1'-2"	0'-9"	OPEN WALL UNIT WITH SLOPED TOP.
WT	01	3'-0"	2'-0"	7'-0"	TALL TEACHER WARDROBE/TECHNOLOGY CABINET WITH ONE FIXED VERTICAL PANEL; INCLUDE 5 ADJUSTABLE SHELVES, REMOVABLE COAT ROD, MIRROR, AND FILING DRAWERS; INCLUDE SLOPED TOP PANEL. REFER TO DETAIL ON A7.06. INCLUDE LOCK ON THIS CABINET.
WT	02	3'-6"	2'-0"	7'-0"	TALL TEACHER WARDROBE/TECHNOLOGY CABINET WITH ONE FIXED VERTICAL PANEL; INCLUDE 5 ADJUSTABLE SHELVES, REMOVABLE COAT ROD, MIRROR, AND FILING DRAWERS; INCLUDE SLOPED TOP PANEL. REFER TO DETAIL ON A7.06. INCLUDE LOCK ON THIS CABINET.
WT	03	3'-0"	1'-9"	7'-0"	TALL TEACHER WARDROBE/TECHNOLOGY CABINET WITH ONE FIXED VERTICAL PANEL; INCLUDE 5 ADJUSTABLE SHELVES, REMOVABLE COAT ROD, MIRROR, AND FILING DRAWERS; INCLUDE SLOPED TOP PANEL. REFER TO DETAIL ON A7.06. INCLUDE LOCK ON THIS CABINET.
WT	04	2'-6"	2'-0"	7'-0"	TALL WARDROBE CABINET WITH ONE FIXED VERTICAL PANEL; INCLUDE 5 ADJUSTABLE SHELVES. REMOVABLE COAT ROD, AND MIRROR. DO NOT INCLUDE FILING DRAWERS. INCLUDE SLOPED TOP PANEL. INCLUDE LOCK ON THIS CABINET.

LIBRARY STACK SYSTEMS SCHEDULE

TYPE	NO.	SIZE W	SIZE D	SIZE H	DESCRIPTION
MBC	1	3'-0"	2'-0"	3'-6"	DOUBLE-SIDED MOBILE BOOKCASE WITH FIXED CENTER DIVIDER AND 1 SHELF ON EACH SIDE.
MC	2	2'-8 1/2"	1'-0"	3'-6"	SINGLE-SIDED BOOKCASE WITH 2 ADJUSTABLE SHELVES.
MC	3	3'-0"	1'-0"	5'-0"	SINGLE-SIDED BOOKCASE WITH 3 ADJUSTABLE SHELVES.
MC	4	2'-10"	1'-0"	5'-0"	SINGLE-SIDED BOOKCASE WITH 3 ADJUSTABLE SHELVES.
MC	5	3'-3"	1'-0"	5'-0"	SINGLE-SIDED BOOKCASE WITH 3 ADJUSTABLE SHELVES.
MC	6	3'-0"	1'-0"	7'-0"	SINGLE-SIDED BOOKCASE WITH 5 ADJUSTABLE SHELVES AND SLOPED TOP.
MC	7	3'-0"	2'-0"	7'-0"	SINGLE-SIDED BOOKCASE WITH 5 ADJUSTABLE SHELVES AND SLOPED TOP.
MC	8	3'-6"	1'-0"	7'-0"	SINGLE-SIDED BOOKCASE WITH 5 ADJUSTABLE SHELVES AND SLOPED TOP.

LIST OF FINISHES

REFER TO A7 ARCH. DWG. SHEETS

EQUIPMENT MATERIALS

CORNER GUARDS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CG	CS ACROVYN / SM-20	TO BE SELECTED / 2" LEGS X 48"H

- REFER TO MISCELLANEOUS FINISHES FOR J-TRIM INFORMATION

CUBICLE CURTAIN

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CC-1	MAYER FABRICS / SEAQUAL / SERENE	TO BE SELECTED

DISCOVERY CENTER NOOK UPHOLSTERY

NOOK SEAT PADDING TO BE UPHOLSTERED IN DESIGNTEX BEGUILED BY THE WILD IN BLUE GECKO 3043-409

HP PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 (CR CASEWORK)	WILSONART	HANDSPUN CHESTNUT 5036-38
PL-2 (CR BOOKCASE TOPS)	WILSONART	PEARL SOAPSTONE 4866-38
PL-3 (OCISTEAM)	WILSONART	CASUAL LINEN 4944-38
PL-4 (RECEPTION)	NEVAMAR	EASY ELEGANCE VA5002T

KICKPLATES

STAINLESS STEEL

MARKERBOARD

WHITE

PLASTIC TOILET PARTITIONS/COMPARTMENTS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
	REFER TO SPECIFICATIONS	STANDARD COLOR TO BE SELECTED

SHOWER CURTAINS

WHITE

SOLID SURFACE MATERIAL

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SSM-1 (COUNTERTOPS)	CORIAN	ARTISTA DUST
SSM-2 (BRICK KNEE WALL CAPS)	CORIAN / MEGANITE / LX HAUSYS	GROUP 3, TO BE SELECTED
SSM-3 (RECEPTION COUNTERTOPS)	STARON	STUCCO EARTH NE945

STAGE CURTAIN

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SC-1	REFER TO SPECIFICATIONS	MATCH KM CHARISMA IN NAVY 1118
SC-2	REFER TO SPECIFICATIONS	BLACK

TACKABLE WALL SURFACE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TWS-1 (FIELD)	MOMENTUM / SYMPHONY / PULSE	SILENT SILVER AZ52590
TWS-2 (DISC CTR)	CARNEGIE XOREL / STRIE	6423-840

TACKBOARDS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TB	REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD, TO BE SELECTED

MISCELLANEOUS FINISHES

J-TRIM AT VWC-2 WAINSCOT CAP TO BE CS ACROVYN WC75WTT, SAME COLOR/MANUFACTURER AS CORNER GUARDS

ROLLER WINDOW SHADES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RWS-1	REFER TO SPECIFICATIONS	MFR STANDARD COLOR / 5% OPEN
RWS-2	REFER TO SPECIFICATIONS	MFR STANDARD COLOR / OPAQUE
RWS-3	REFER TO SPECIFICATIONS	MFR STANDARD COLOR / OPAQUE

EQUIPMENT MATERIAL & FINISH GEN. NOTES

A. COLOR SELECTION OF ALL FINISHES FOR INTERIOR PLASTIC LAMINATE FACED ARCHITECTURAL CABINETS/ CUSTOM CASEWORK ITEMS ARE NOTED ON CASEWORK ELEVATIONS AND DETAIL DRAWINGS.

B. EDUCATIONAL CASEWORK FINISHES ARE AS FOLLOWS (UNLESS OTHERWISE NOTED):
- HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED.
- 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-2.
  1. PLASTIC LAMINATE SURFACES AT BOOKCASES, TYPICAL.
- HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-1 UNLESS OTHERWISE NOTED. INTERIOR MELAMINE TO BE WHITE.
- 3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH SPECIFIED LAMINATE.
- HANDLES TO BE SILVER METALLIC POWDERCOAT.
- HINGES TO BE SILVER METALLIC POWDERCOAT.
- GROMMETS TO BE SELECTED.
- SOLID SURFACE COUNTERTOPS AND WORKSURFACES ARE TO BE SSM-1, UNLESS OTHERWISE NOTED.
  1. SOLID SURFACE COUNTERTOPS LOCATED AT SINK LOCATIONS, TYPICAL.

C. LIBRARY STACK SYSTEMS TO BE PLASTIC LAMINATE WITH PLASTIC LAMINATE SHELVES, TYPICAL.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. AR 10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

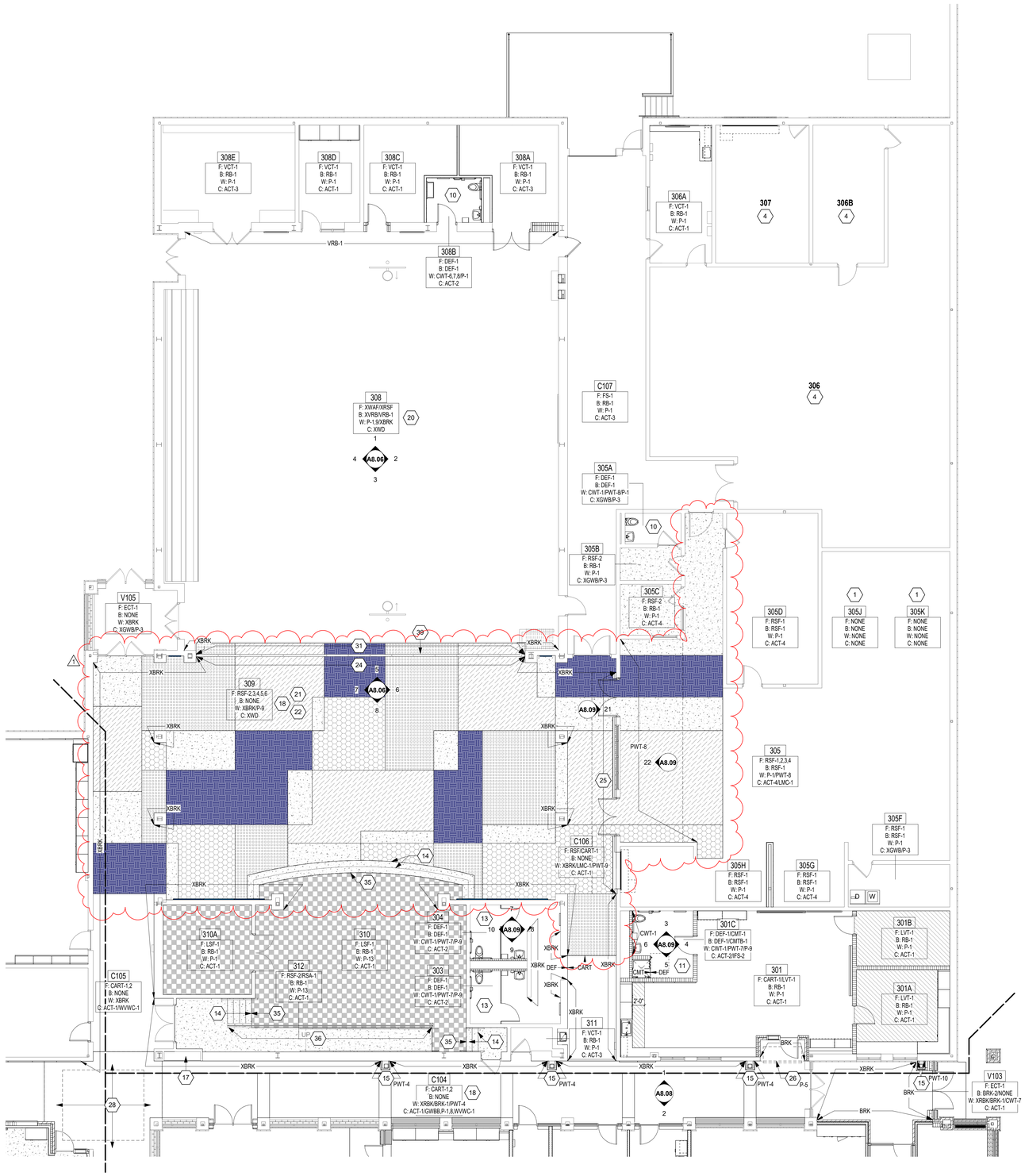
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

EDUCATIONAL CASEWORK SCHEDULES

A7S.01



UNIT A FINISH PLAN

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

ROOM LEGEND - UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
301	CLASSROOM 34 - F.A.P.	727 SF
301A	SMALL GROUP	213 SF
301B	DE-ESCALATION	139 SF
301C	RESTROOM	109 SF
303	GIRLS	105 SF
304	BOYS	111 SF
305	KITCHEN	1,688 SF
305A	TOILET	46 SF
305B	DRESSING	54 SF
305C	KITCHEN OFFICE	84 SF
305D	DRY STORAGE	422 SF
305E	CUST	Not Placed
305F	LAUNDRY	117 SF
305G	BREAKROOM	124 SF
305H	DISHWASHING	246 SF
305J	COOLER	237 SF
305K	FREEZER	235 SF
306	BOILER ROOM	2,210 SF
306A	CUSTODIAL OFFICE & BREAKROOM	231 SF
306B	ELECTRICAL	265 SF
307	OUTDOOR STORAGE	348 SF
308	GYMNASIUM	4,501 SF
308A	STORAGE	219 SF
308B	FAMILY RR	66 SF
308C	PARKS OFFICE	203 SF
308D	P.E. OFFICE	161 SF
308E	STORAGE	353 SF
309	CAFETORIUM	2,292 SF
310	STAGE	1,019 SF
311	IDF	29 SF
312	BACKSTAGE	228 SF
313	STORAGE	987 SF
C105	CORRIDOR	761 SF
C106	CORRIDOR	642 SF
C107	CORRIDOR	1,055 SF
V105	VESTIBULE	151 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.
C. EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO THERMOSTATS, AND FIRE EXTINGUISHER CABINETS (UNO).
D. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.
E. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
F. EXISTING INTERIOR DOORS AND DOOR FRAMES ARE TO REMAIN UNLESS NOTED OTHERWISE. DOOR FRAMES TO BE REPAINTED AND WOOD DOORS TO BE REPAIRED AS REQUIRED.
G. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS AT AREAS THAT ARE TO RECEIVE NEW FINISHES.
H. (XBRK) INDICATES EXISTING BRICK, TO REMAIN UNPAINTED UNLESS NOTED OTHERWISE.
I. (BRK) INDICATES NEW BRICK, TO REMAIN UNPAINTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

1 PRE-FABRICATED FREEZER/COOLER, NO FINISH ITEMS
2 INSTALL CWT ON JAMB WITH SCHLUTER QUADEC TRIM ON OUTSIDE CORNERS. CWT COLOR AS NOTED ON ADJACENT ACCENT WALL. REFER TO 1/A8.10 FOR TILE DETAILS.
3 INSTALL CWT ON WALLS, PAINT GWB BULKHEAD ABOVE, AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR TILE & ACCENT PAINT COLORS. REFER TO 15/A8.09 FOR TYPICAL ELEVATION, 1/A8.10 FOR TILE DETAILS, & 1-7/A9.04 FOR CEILING DETAILS
4 NO FINISH WORK IN THIS AREA.
5 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 16/A8.09 FOR TYPICAL ELEVATION AND 2/A9.05 FOR CEILING FEATURE DETAIL.
6 PAINT EXISTING GWB BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR ACCENT COLOR. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 4/A9.05 FOR DETAIL.
7 PAINT EXISTING GWB BULKHEAD, P-7, AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 7/A9.05 FOR DETAIL.
8 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS 11-14/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10. PAINT CMU WALL ABOVE TO CEILING, P-1
9 INSTALL FULL HEIGHT TILE ON ALL WALLS; INSTALL CWT-1 ON INDICATED WALL IN HORIZONTAL STRAIGHT LAY AND PWT-7 IN VERTICAL STRAIGHT LAY ON ALL OTHERS. REFER TO 5/A8.10 & A8.10 FOR BASE DETAIL.
10 INSTALL TILE ON ALL WALLS, REFER TO ELEVATIONS 19-20/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10. PAINT CMU WALL ABOVE TO CEILING, P-1
11 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS FOR TILE HEIGHTS AND LOCATIONS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10. INCLUDE IFS CEILING OVER SHOWER AND CMT/CMTB INSIDE SHOWER; PAINT CMU WALL ABOVE TO CEILING, P-9
12 INSTALL FULL HEIGHT TILE WITH SCHLUTER QUADEC OUTSIDE CORNER TRIM; REFER TO 11-14/A8.09 FOR TILE INFORMATION AND DETAIL ON A8.10 FOR DEF-1 BASE WITH TILE ABOVE. PAINT CUSTODIAL DOOR AND FRAME, P-10
13 INSTALL TILE ON ALL WALLS, REFER TO ELEVATIONS 7-10/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-9
14 <varies>
15 INSTALL FULL HEIGHT PWT (TILE COLORS NOTED ON PLAN) WITH SCHLUTER QUADEC OUTSIDE CORNER TRIM
16 DECORATIVE FILM OVERLAY (DFO-1) INSTALLED ON GLAZING, REFER TO ELEVATION FOR EXTENTS
17 INSTALL CART-3 ON FLOOR OF EXISTING DISPLAY CASE AND TWS-7 ON ALL OTHER SURFACES. INSTALL NEW MATERIALS ON TOP OF EXISTING MATERIALS.
18 REFER TO 1/A8.11 FOR FLOOR PATTERN DETAILS
19 REFER TO 2/A8.11 FOR FLOOR PATTERN DETAILS
20 AR-AWT IN THIS ROOM, REFER TO ELEVATIONS FOR DESIGN AND DESIGNATIONS
21 ACOUSTICAL PANELS (SFWS) IN THIS ROOM, REFER TO ELEVATIONS FOR DESIGN AND DESIGNATIONS
22 APPLY AFF-1 ON EXISTING LAMINATE ACCENT ON COLUMNS, REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION
23 INSTALL FULL HEIGHT PWT-1 ON LAV WALL AND PARTIAL HEIGHT CWT-6 ON ALL OTHER WALLS, WITH P-1 ABOVE TO CEILING; SEE 11-14/A8.09 FOR SIMILAR ELEVATIONS. INCLUDE SCHLUTER TRIM AT TILE TERMINATIONS AND OUTSIDE CORNERS. REFER TO A8.09 FOR DETAILS.
24 RECOVER EXISTING OPERABLE WALL WITH NEW WALLCOVERING, VWC-1; REFER TO ELEVATION 5/A8.06
25 INSTALL PWT-2 WAINSCOT WITH LMC-1 ASSEMBLY ABOVE, REFER TO ELEVATION & DETAIL 5/A8.10
26 PAINT NEW GWB BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR ACCENT COLOR. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 6/A9.05 FOR DETAIL
27 INSTALL VWC-2 UP TO 42"AFF, WITH CS ACROVYN J-TRIM WAINSCOT CAP
28 INSTALL WVWC-1 WRAP ON GWB BULKHEADS
29 INSTALL VWC-2 UP TO 48"AFF, WITH CS ACROVYN J-TRIM WAINSCOT CAP; REFER TO A7 SERIES FOR CORNER GUARD (CG) LOCATIONS
30 INSTALL VWC-2 WAINSCOT ON INDICATED WALL(S), REFER TO ELEVATIONS FOR HEIGHTS AND TRIMS
31 RECOVER EXISTING OPERABLE WALL WITH NEW ACOUSTICAL CARPET WALLCOVERING AND WALL PROTECTION, REFER TO ELEVATION 3/A8.06
32 ALIGN FLOORING TRANSITION TO WALL IN B121 AS SHOWN
33 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 16/A8.09 FOR TYPICAL ELEVATION AND 3/A9.05 FOR CEILING FEATURE DETAIL.
34 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 5/A9.05 FOR CEILING FEATURE DETAIL.
35 INSTALL LSF-1 ON STAGE WITH RSA-1 NOSING AND RSF-2 MATERIAL ON RISER, REFER TO DETAIL 6/A8.10
36 INSTALL LSF-1 ON STAGE WITH RSA-1 NOSING; PAINT VERTICAL SURFACE, P-13
37 INSTALL FULL HEIGHT VWC-2 ON GWB WALLS, PAINT P-1 ON CMU WALL
38 PAINT EXISTING BRICK AND UTILITY BRICK BASE, P-1
39 RSF TO CONTINUE UNDER OPERABLE WALL TO EXTENTS OF EXISTING RSF

FLOOR PATTERN LEGEND

- CART-1 (BRICK LAY)
- CART-2 (MONOLITHIC)
- CART-3 (MONOLITHIC)
- LSF-1
- LVT-1
- RSF-2
- RSF-3
- RSF-4
- RSF-5
- RSF-6

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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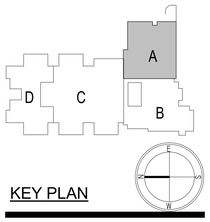


KEY PLAN

BID SET

PAUL A. MILLER REGISTERED No. A 20100161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

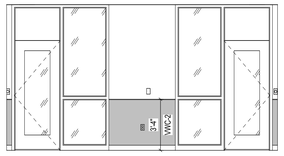
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT A - FIRST FLOOR FLOOR FINISH PLAN

A8.01



2 K SMALL GROUP WALL - A

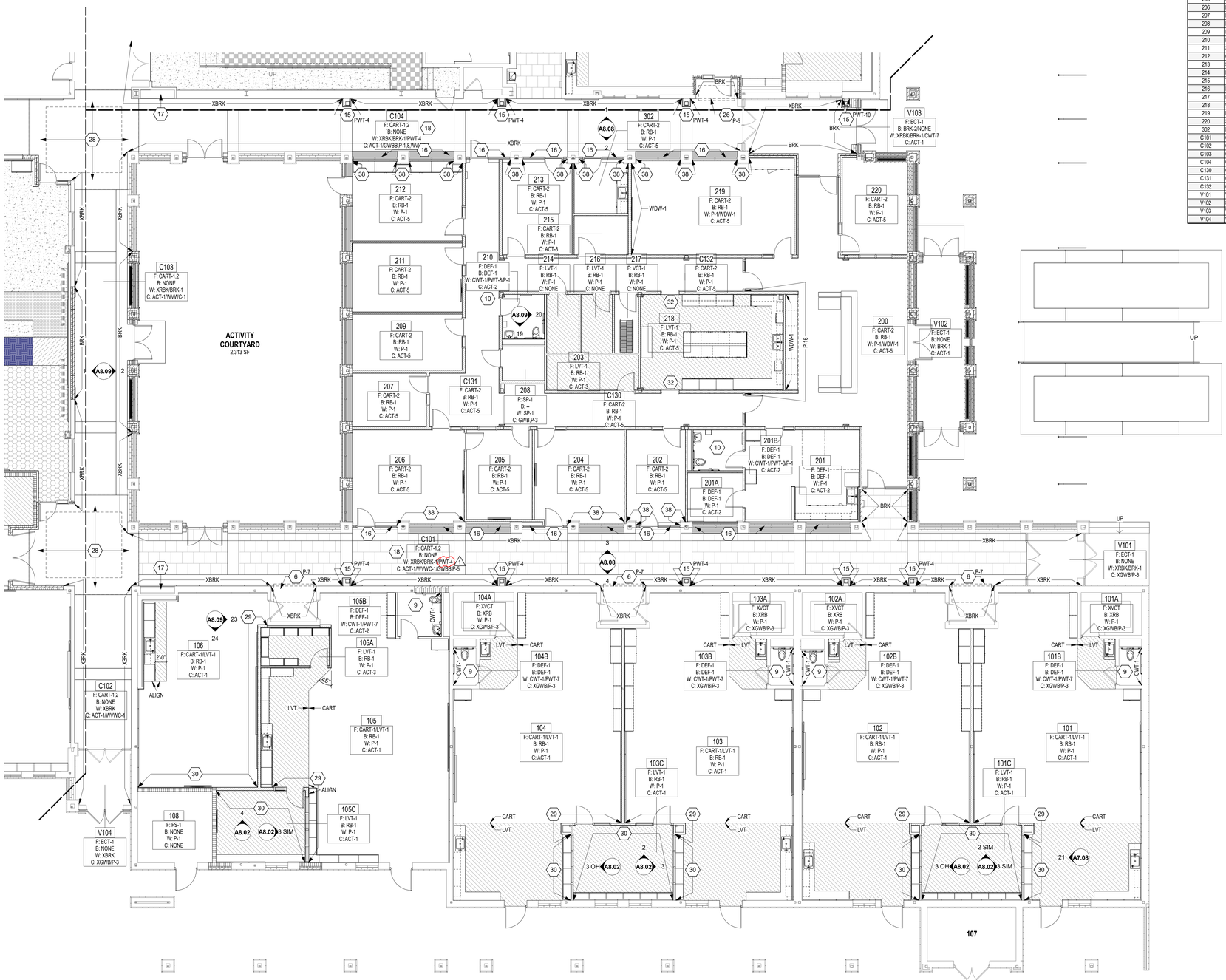
SCALE: 1/4" = 1'-0"

3 K SMALL GROUP WALL - B

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

4 105C SMALL GROUP - EAST

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



UNIT B FINISH PLAN

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

ROOM LEGEND - UNIT B

ROOM NO.	ROOM NAME	AREA (SF)
	ACTIVITY COURTYARD	2,313 SF
101	KINDER - CR 1	1,327 SF
101A	STORAGE	80 SF
101B	TOILET	26 SF
101C	SMALL GROUP	234 SF
102	KINDER - CR 2	1,325 SF
102A	STORAGE	80 SF
102B	TOILET	24 SF
103	KINDER - CR 3	1,329 SF
103A	STORAGE	80 SF
103B	TOILET	27 SF
103C	SMALL GROUP	234 SF
104	KINDER - CR 4	1,327 SF
104A	STORAGE	80 SF
104B	TOILET	27 SF
105	KINDER - CR 35	1,243 SF
105A	STORAGE	80 SF
105B	RR	58 SF
105C	SMALL GROUP	201 SF
106	FLEX ROOM	707 SF
107	MECH	149 SF
108	OUTDOOR STORAGE	166 SF
200	RECEPTION	901 SF
201	CLINIC	315 SF
201A	EXAM	84 SF
201B	RR	63 SF
202	E.C. SPEECH	172 SF
203	STORAGE	100 SF
204	ASST PRINCIPAL'S OFFICE	262 SF
205	SMALL CONFERENCE	183 SF
206	PRINCIPAL'S OFFICE	330 SF
207	PSYCHOLOGIST	123 SF
208	ISOLATION	44 SF
209	INST COACH OFFICE	191 SF
210	RR	58 SF
211	SOCIAL WORKER	235 SF
212	OT/PT OFFICE	272 SF
213	SPEECH/HEARING	203 SF
214	ELEC	58 SF
215	TEST STOR/ QUIET SPACE	65 SF
216	IDF	57 SF
217	MEZZANINE	43 SF
218	WORKROOM	418 SF
219	LARGE CONFERENCE	478 SF
220	SRO OFFICE	189 SF
302	MOTHERS	88 SF
C101	CORRIDOR	1,729 SF
C102	CORRIDOR	283 SF
C103	CORRIDOR	625 SF
C104	CORRIDOR	1,172 SF
C130	CORRIDOR	261 SF
C131	CORRIDOR	342 SF
C132	CORRIDOR	248 SF
V101	VESTIBULE	91 SF
V102	SECURE VESTIBULE	253 SF
V103	VESTIBULE	216 SF
V104	VESTIBULE	103 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.
C. EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO THERMOSTATS, AND FIRE EXTINGUISHER CABINETS (UNO).
D. PROVIDE RESILIENT TRANSITION STRIPS BETWEEN FLOOR FINISH TYPES.
E. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
F. EXISTING INTERIOR DOORS AND DOOR FRAMES ARE TO REMAIN UNLESS NOTED OTHERWISE. DOOR FRAMES TO BE REPAINTED AND WOOD DOORS TO BE REPAIRED AS REQUIRED.
G. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS AT AREAS THAT ARE TO RECEIVE NEW FINISHES.
H. (XBRK) INDICATES EXISTING BRICK, TO REMAIN UNPAINTED UNLESS NOTED OTHERWISE.
I. (BRK) INDICATES NEW BRICK, TO REMAIN UNPAINTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

1 PRE-FABRICATED FREEZER/COOLER, NO FINISH ITEMS
2 INSTALL CWT ON JAMB WITH SCHLUTER QUADEC TRIM ON OUTSIDE CORNERS. CWT COLOR AS NOTED ON ADJACENT ACCENT WALL. REFER TO 1/A8.10 FOR TILE DETAILS.
3 INSTALL CWT ON WALLS, PAINT GWB BULKHEAD ABOVE, AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR TILE & ACCENT PAINT COLORS. REFER TO 15/A8.09 FOR TYPICAL ELEVATION, 1/A8.10 FOR TILE DETAILS, & 1-T/A9.04 FOR CEILING DETAILS
4 NO FINISH WORK IN THIS AREA.
5 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 16/A8.09 FOR TYPICAL ELEVATION AND 2/A9.05 FOR CEILING FEATURE DETAIL.
6 PAINT EXISTING GWB BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR ACCENT COLOR. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 4/A9.05 FOR DETAIL.
7 PAINT EXISTING GWB BULKHEAD, P-7, AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 7/A9.05 FOR DETAIL.
8 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS 11-14/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-1
9 INSTALL FULL HEIGHT TILE ON ALL WALLS; INSTALL CWT-1 ON INDICATED WALL IN HORIZONTAL STRAIGHT LAY AND PWT-7 IN VERTICAL STRAIGHT LAY ON ALL OTHERS. REFER TO 5/A8.10 & A8.10 FOR BASE DETAIL.
10 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS 19-20/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-1
11 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS FOR TILE HEIGHTS AND LOCATIONS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; INCLUDE IFS CEILING OVER SHOWER AND CMT/CMTB INSIDE SHOWER; PAINT CMU WALL ABOVE TO CEILING, P-9
12 INSTALL FULL HEIGHT TILE WITH SCHLUTER QUADEC OUTSIDE CORNER TRIM. REFER TO 11-14/A8.09 FOR TILE INFORMATION AND DETAIL ON A8.10 FOR DEF-1 BASE WITH TILE ABOVE. PAINT CUSTODIAL DOOR AND FRAME, P-10
13 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS 7-10/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-9
14 <varies>
15 INSTALL FULL HEIGHT PWT (TILE COLORS NOTED ON PLAN) WITH SCHLUTER QUADEC OUTSIDE CORNER TRIM
16 DECORATIVE FILM OVERLAY (DFO-1) INSTALLED ON GLAZING, REFER TO ELEVATION FOR EXTENTS
17 INSTALL CART-3 ON FLOOR OF EXISTING DISPLAY CASE AND TWS-7 ON ALL OTHER SURFACES. INSTALL NEW MATERIALS ON TOP OF EXISTING MATERIALS.
18 REFER TO 1/A8.11 FOR FLOOR PATTERN DETAILS
19 REFER TO 2/A8.11 FOR FLOOR PATTERN DETAILS
20 AR-AWT IN THIS ROOM, REFER TO ELEVATIONS FOR DESIGN AND DESIGNATIONS
21 ACOUSTICAL PANELS (SFWS) IN THIS ROOM, REFER TO ELEVATIONS FOR DESIGN AND DESIGNATIONS
22 APPLY AFF-1 ON EXISTING LAMINATE ACCENT ON COLUMNS, REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION
23 INSTALL FULL HEIGHT PWT-1 ON LAV WALL AND PARTIAL HEIGHT CWT-6 ON ALL OTHER WALLS. WITH P-1 ABOVE TO CEILING. SEE 11-14/A8.09 FOR SIMILAR ELEVATIONS. INCLUDE SCHLUTER TRIM AT TILE TERMINATIONS AND OUTSIDE CORNERS, REFER TO A8.09 FOR DETAILS.
24 RECOVER EXISTING OPERABLE WALL WITH NEW WALLCOVERING, VWC-1; REFER TO ELEVATOIN 5/A8.06
25 INSTALL PWT-2 WAINSCOT WITH LMC-1 ASSEMBLY ABOVE, REFER TO ELEVATION & DETAIL 5/A8.10
26 PAINT NEW GWB BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR ACCENT COLOR. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 6/A9.05 FOR DETAIL.
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28 INSTALL WVWC-1 WRAP ON GWB BULKHEADS
29 INSTALL VWC-2 UP TO 48"AFF, WITH CS ACROVYN J-TRIM WAINSCOT CAP; REFER TO AT SERIES FOR CORNER GUARD (CG) LOCATIONS
30 INSTALL VWC-2 WAINSCOT ON INDICATED WALL(S), REFER TO ELEVATIONS FOR HEIGHTS AND TRIMS
31 RECOVER EXISTING OPERABLE WALL WITH NEW ACOUSTICAL CARPET WALLCOVERING AND WALL PROTECTION, REFER TO ELEVATION 3/A8.06
32 ALIGN FLOORING TRANSITION TO WALL IN B121 AS SHOWN
33 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 16/A8.09 FOR TYPICAL ELEVATION AND 3/A9.05 FOR CEILING FEATURE DETAIL.
34 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 5/A9.05 FOR CEILING FEATURE DETAIL.
35 INSTALL LSF-1 ON STAGE WITH RSA-1 NOSING AND RSF-2 MATERIAL ON RISER, REFER TO DETAIL 6/A8.10
36 INSTALL LSF-1 ON STAGE WITH RSA-1 NOSING; PAINT VERTICAL SURFACE, P-13
37 INSTALL FULL HEIGHT VWC-2 ON GWB WALLS, PAINT P-1 ON CMU WALL
38 PAINT EXISTING BRICK AND UTILITY BRICK BASE, P-1
39 RSF TO CONTINUE UNDER OPERABLE WALL TO EXTENTS OF EXISTING RSF

FLOOR PATTERN LEGEND

- CART-1 (BRICK LAY)
- CART-2 (MONOLITHIC)
- CART-3 (MONOLITHIC)
- LSF-1
- LVT-1
- RSF-2
- RSF-3
- RSF-4
- RSF-5
- RSF-6

VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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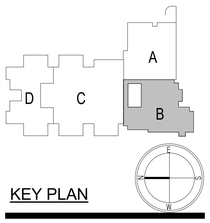


KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: AML

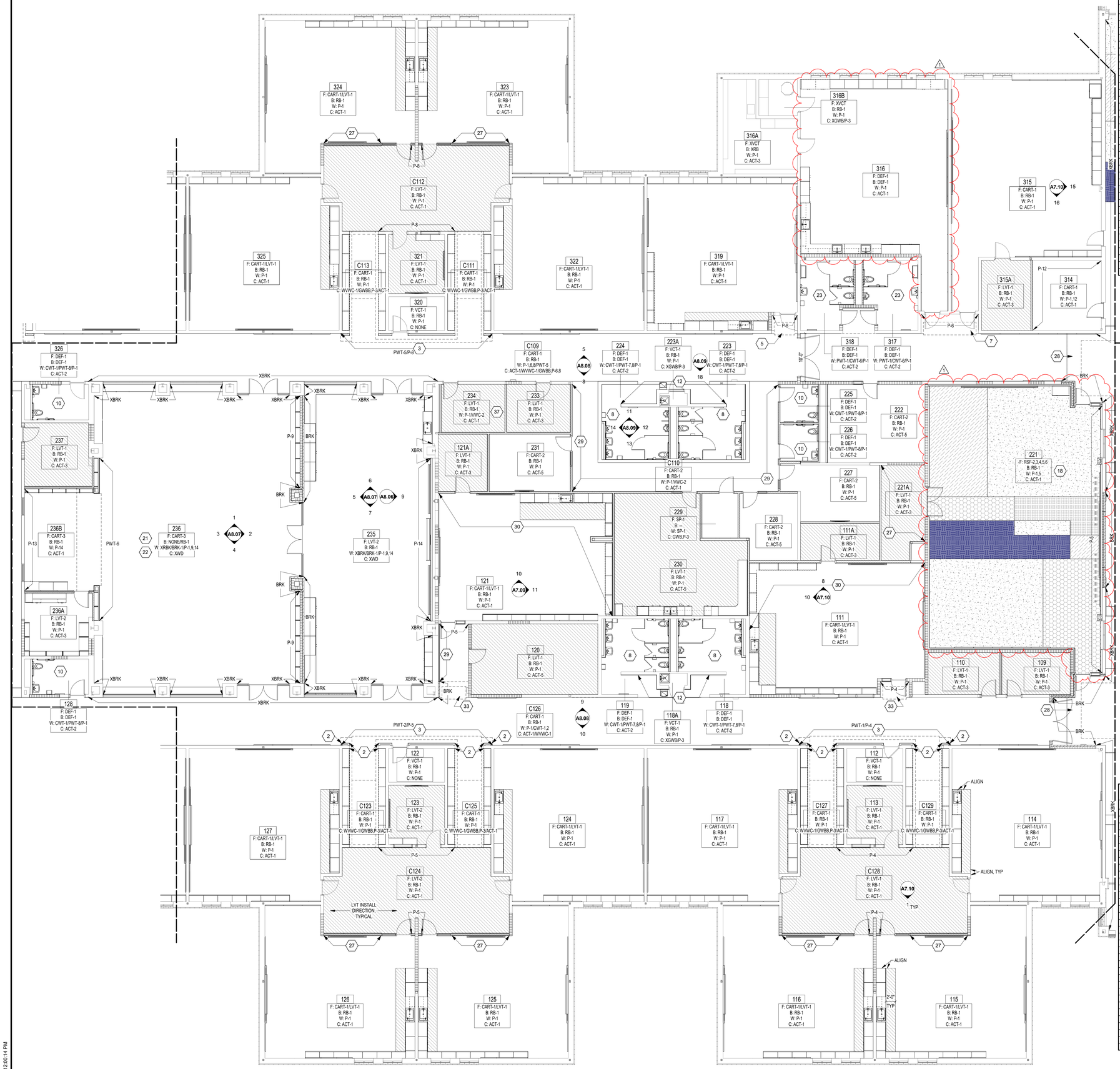
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT B - FIRST FLOOR FLOOR FINISH PLAN

A8.02



UNIT C FINISH PLAN

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

ROOM LEGEND - UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1,928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLI/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF

ROOM LEGEND - UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
234	DE-ESCALATION	133 SF
235	STEAM LAB	1,651 SF
236	DISCOVERY CENTER	2,667 SF
236A	DISC.CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1,227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1,192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2,462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2,118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

GENERAL FINISH NOTES

A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
B. REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.
C. EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO THERMOSTATS, AND FIRE EXTINGUISHER CABINETS (UNO).
D. PROVIDE RESILIENT TRANISITION STRIPS BETWEEN FLOOR FINISH TYPES.
E. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
F. EXISTING INTERIOR DOORS AND DOOR FRAMES ARE TO REMAIN UNLESS NOTED OTHERWISE. DOOR FRAMES TO BE REPAINTED AND WOOD DOORS TO BE REPAIRED AS REQUIRED.
G. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS AT AREAS THAT ARE TO RECEIVE NEW FINISHES.
H. (XBRK) INDICATES EXISTING BRICK, TO REMAIN UNPAINTED UNLESS NOTED OTHERWISE.
I. (BRK) INDICATES NEW BRICK, TO REMAIN UNPAINTED.

FLOOR PATTERN/FINISH KEY NOTES (X)

1 PRE-FABRICATED FREEZER/COOLER, NO FINISH ITEMS
2 INSTALL CWT ON JAMB WITH SCHLUTER QUADEC TRIM ON OUTSIDE CORNERS. CWT COLOR AS NOTED ON ADJACENT ACCENT WALL. REFER TO 1/A8.10 FOR TILE DETAILS.
3 INSTALL CWT ON WALLS, PAINT GWB BULKHEAD ABOVE, AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR TILE & ACCENT PAINT COLORS. REFER TO 15/A8.09 FOR TYPICAL ELEVATION, 1/A8.10 FOR TILE DETAILS, & 1-7/A9.04 FOR CEILING DETAILS
4 NO FINISH WORK IN THIS AREA.
5 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 16/A8.09 FOR TYPICAL ELEVATION AND 2/A9.05 FOR CEILING FEATURE DETAIL.
6 PAINT EXISTING GWB BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR ACCENT COLOR. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 4/A9.05 FOR DETAIL.
7 PAINT EXISTING GWB BULKHEAD, P-7, AND INSTALL W-WC-1 WRAP ON CEILING FEATURE. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 7/A9.05 FOR DETAIL.
8 INSTALL TILE ON ALL WALLS. REFER TO ELEVATIONS 11-14/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-1
9 INSTALL FULL HEIGHT TILE ON ALL WALLS; INSTALL CWT-1 ON INDICATED WALL IN HORIZONTAL STRAIGHT LAY AND PWT-7 IN VERTICAL STRAIGHT LAY ON ALL OTHERS. REFER TO 5/A8.10 & A8.10 FOR BASE DETAIL
10 INSTALL TILE ON ALL WALLS, REFER TO ELEVATIONS 19-20/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-1
11 INSTALL TILE ON ALL WALLS, REFER TO ELEVATIONS FOR TILE HEIGHTS AND LOCATIONS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; INCLUDE IFS CEILING OVER SHOWER AND CMT/CMTB INSIDE SHOWER; PAINT CMU WALL ABOVE TO CEILING, P-9
12 INSTALL FULL HEIGHT TILE WITH SCHLUTER QUADEC OUTSIDE CORNER TRIM; REFER TO 11-14/A8.09 FOR TILE INFORMATION AND DETAIL ON A8.10 FOR DEF-1 BASE WITH TILE ABOVE. PAINT CUSTODIAL DOOR AND FRAME, P-10
13 INSTALL TILE ON ALL WALLS, REFER TO ELEVATIONS 7-10/A8.09 FOR TILE LOCATIONS AND DETAILS; REFER TO TILE TERMINATION, OUTSIDE CORNER, AND BASE DETAILS ON A8.10; PAINT CMU WALL ABOVE TO CEILING, P-9
14 <varies>
15 INSTALL FULL HEIGHT PWT (TILE COLORS NOTED ON PLAN) WITH SCHLUTER QUADEC OUTSIDE CORNER TRIM
16 DECORATIVE FILM OVERLAY (DFO-1) INSTALLED ON GLAZING, REFER TO ELEVATION FOR EXTENTS
17 INSTALL CART-3 ON FLOOR OF EXISTING DISPLAY CASE AND TWS-7 ON ALL OTHER SURFACES. INSTALL NEW MATERIALS ON TOP OF EXISTING MATERIALS.
18 REFER TO 1/A8.11 FOR FLOOR PATTERN DETAILS
19 REFER TO 2/A8.11 FOR FLOOR PATTERN DETAILS
20 AR-AWT IN THIS ROOM, REFER TO ELEVATIONS FOR DESIGN AND DESIGNATIONS
21 ACOUSTICAL PANELS (SFWS) IN THIS ROOM, REFER TO ELEVATIONS FOR DESIGN AND DESIGNATIONS
22 APPLY AFF-1 ON EXISTING LAMINATE ACCENT ON COLUMNS, REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION
23 INSTALL FULL HEIGHT PWT-1 ON LAV WALL AND PARTIAL HEIGHT CWT-6 ON ALL OTHER WALLS, WITH P-1 ABOVE TO CEILING; SEE 11-14/A8.09 FOR SIMILAR ELEVATIONS. INCLUDE SCHLUTER TRIM AT TILE TERMINATIONS AND OUTSIDE CORNERS, REFER TO A8.09 FOR DETAILS.
24 RECOVER EXISTING OPERABLE WALL WITH NEW WALLCOVERING, VWC-1; REFER TO ELEVATOIN 5/A8.06
25 INSTALL PWT-2 WAINSCOT WITH LMC-1 ASSEMBLY ABOVE, REFER TO ELEVATION & DETAIL 5/A8.10
26 PAINT NEW GWB BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR ACCENT COLOR. REFER TO 17/A8.09 FOR TYPICAL ELEVATION & 6/A9.05 FOR DETAIL.
27 INSTALL VWC-2 UP TO 42"AFF, WITH CS ACROVYN J-TRIM WAINSCOT CAP
28 INSTALL WVWC-1 WRAP ON GWB BULKHEADS
29 INSTALL VWC-2 UP TO 48"AFF, WITH CS ACROVYN J-TRIM WAINSCOT CAP; REFER TO AT SERIES FOR CORNER GUARD (CG) LOCATIONS
30 INSTALL VWC-2 WAINSCOT ON INDICATED WALL(S), REFER TO ELEVATIONS FOR HEIGHTS AND TRIMS
31 RECOVER EXISTING OPERABLE WALL WITH NEW ACOUSTICAL CARPET WALLCOVERING AND WALL PROTECTION, REFER TO ELEVATION 3/A8.06
32 ALIGN FLOORING TRANSITION TO WALL IN B121 AS SHOWN
33 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 16/A8.09 FOR TYPICAL ELEVATION AND 3/A9.05 FOR CEILING FEATURE DETAIL
34 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 5/A9.05 FOR CEILING FEATURE DETAIL
35 INSTALL LSF-1 ON STAGE WITH RSA-1 NOSING AND RSF-2 MATERIAL ON RISER, REFER TO DETAIL 6/A8.10
36 INSTALL LSF-1 ON STAGE WITH RSA-1 NOSING; PAINT VERTICAL SURFACE, P-13
37 INSTALL FULL HEIGHT VWC-2 ON GWB WALLS, PAINT P-1 ON CMU WALL
38 PAINT EXISTING BRICK AND UTILITY BRICK BASE, P-1
39 RSF TO CONTINUE UNDER OPERABLE WALL TO EXTENTS OF EXISTING RSF

FLOOR PATTERN LEGEND

CART-1 (BRICK LAY)
CART-2 (MONOLITHIC)
CART-3 (MONOLITHIC)
LSF-1
LVT-1
RSF-2
RSF-3
RSF-4
RSF-5
RSF-6

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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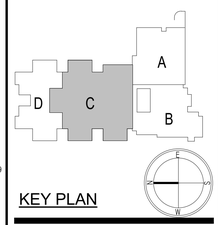
ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST, INDIANAPOLIS IN 46204



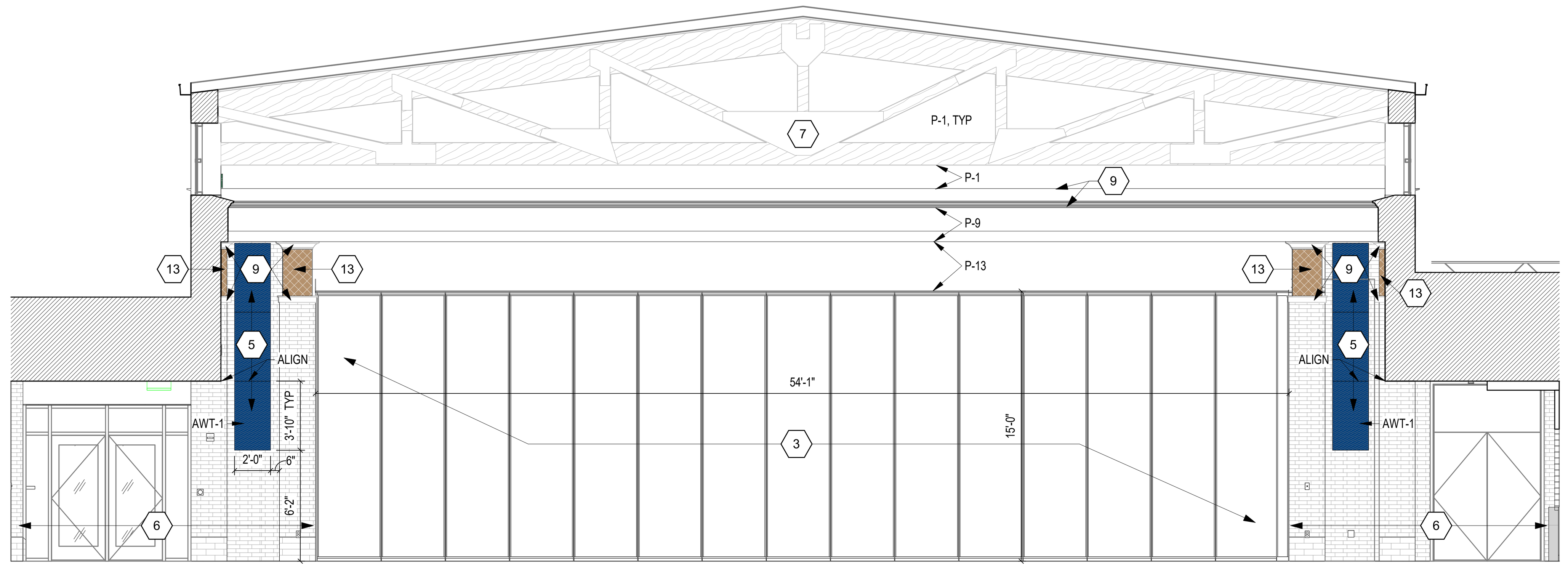
BID SET

PROJECT MANAGER: KRS
DRAWN BY: AML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT C - FIRST FLOOR FLOOR FINISH PLAN

A8.03

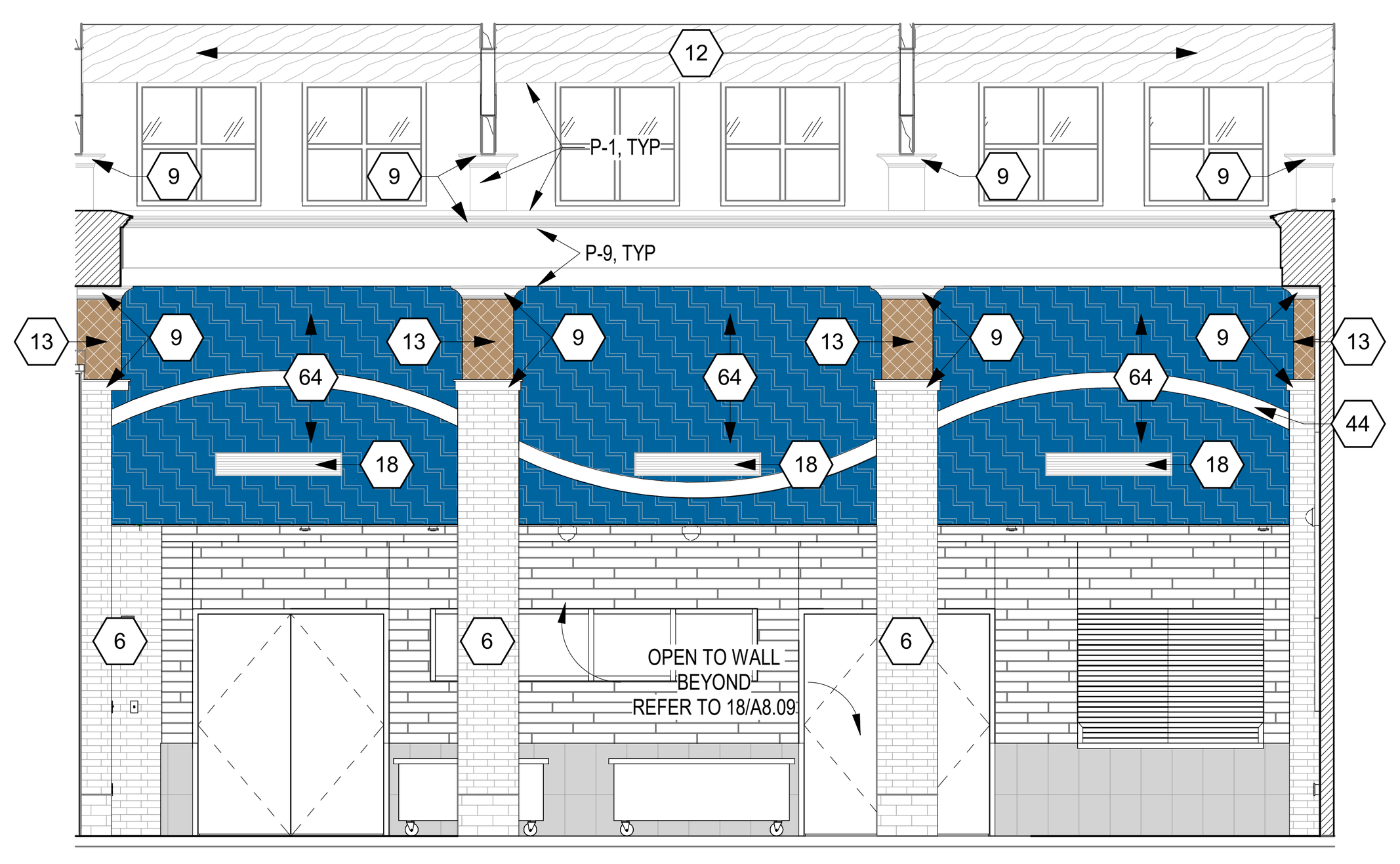


5 **CAFETERIA - EAST**

SCALE: 3/16" = 1'-0"

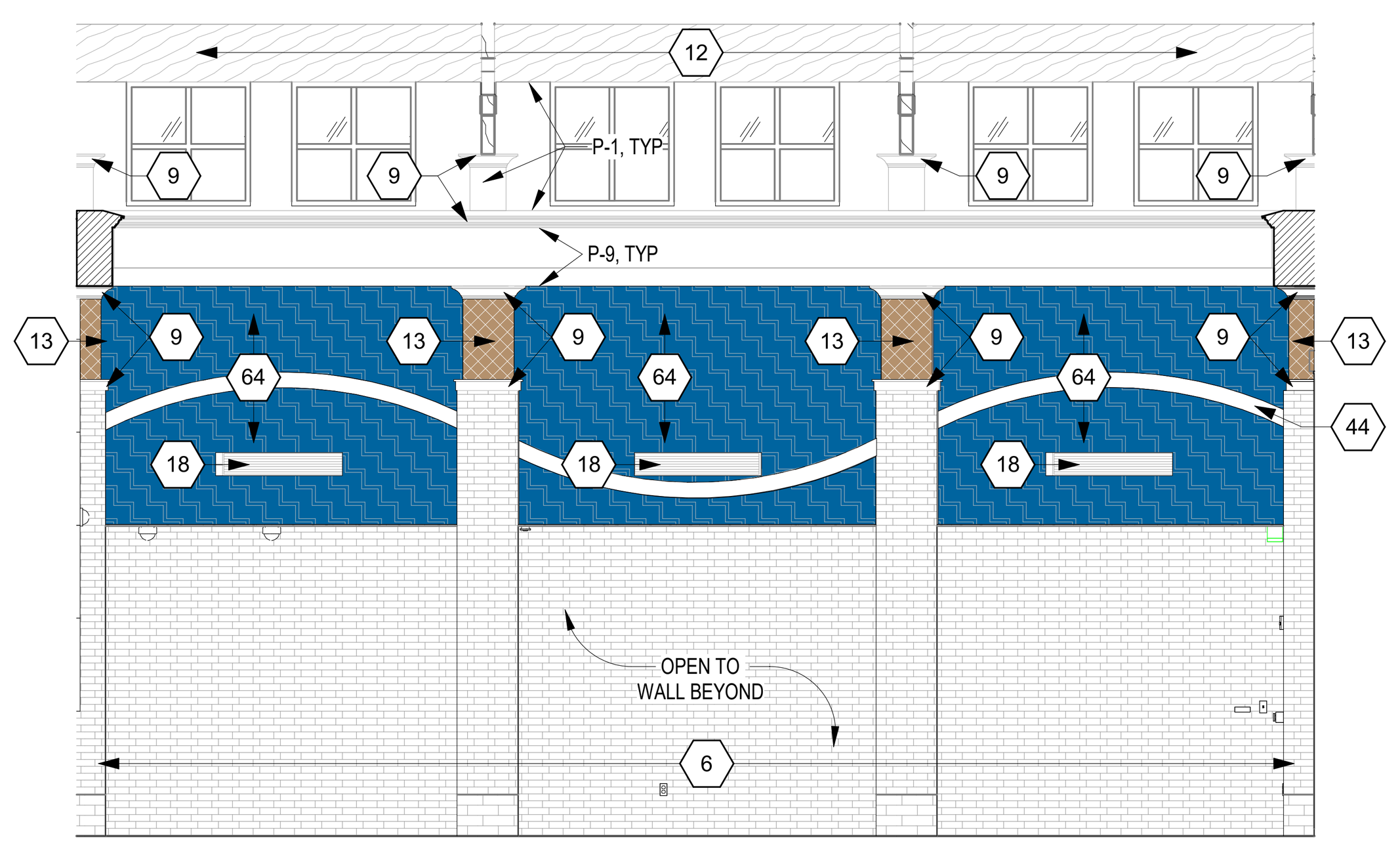
1 **GYM - EAST**

SCALE: 3/16" = 1'-0"



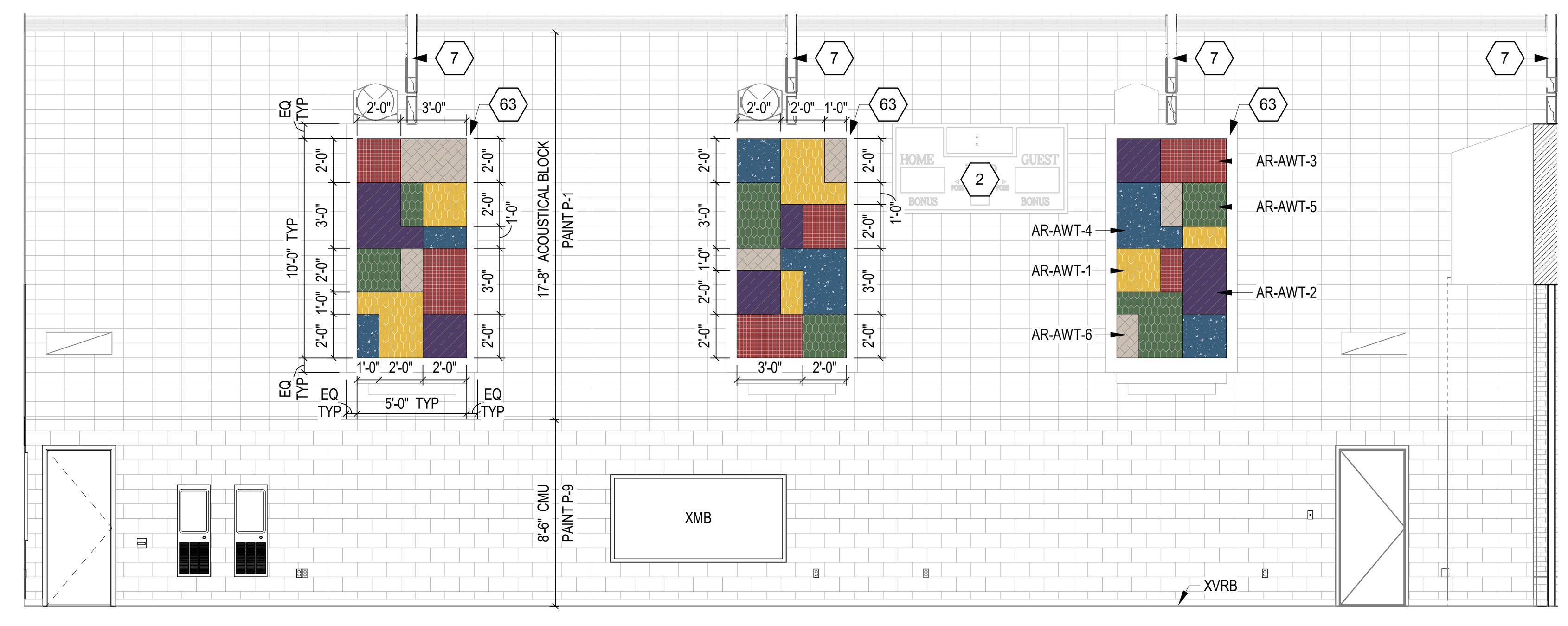
6 **CAFETERIA - SOUTH**

SCALE: 3/16" = 1'-0"



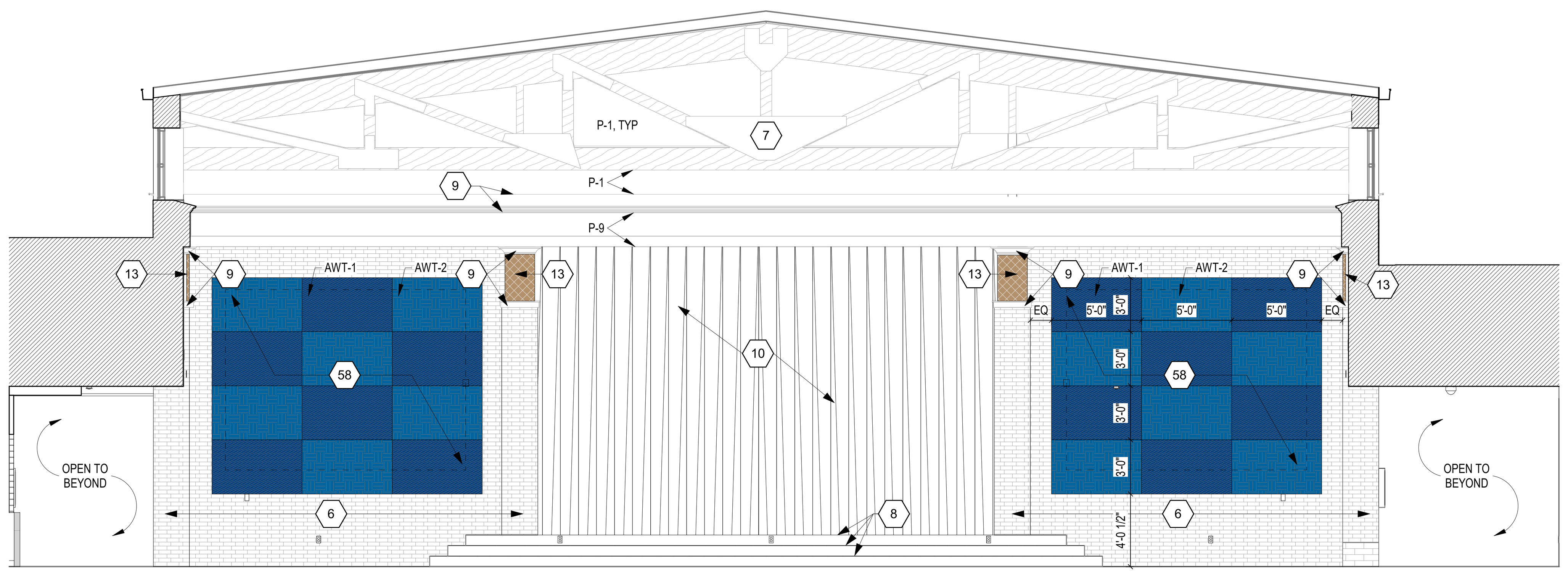
7 **CAFETERIA - NORTH**

SCALE: 3/16" = 1'-0"



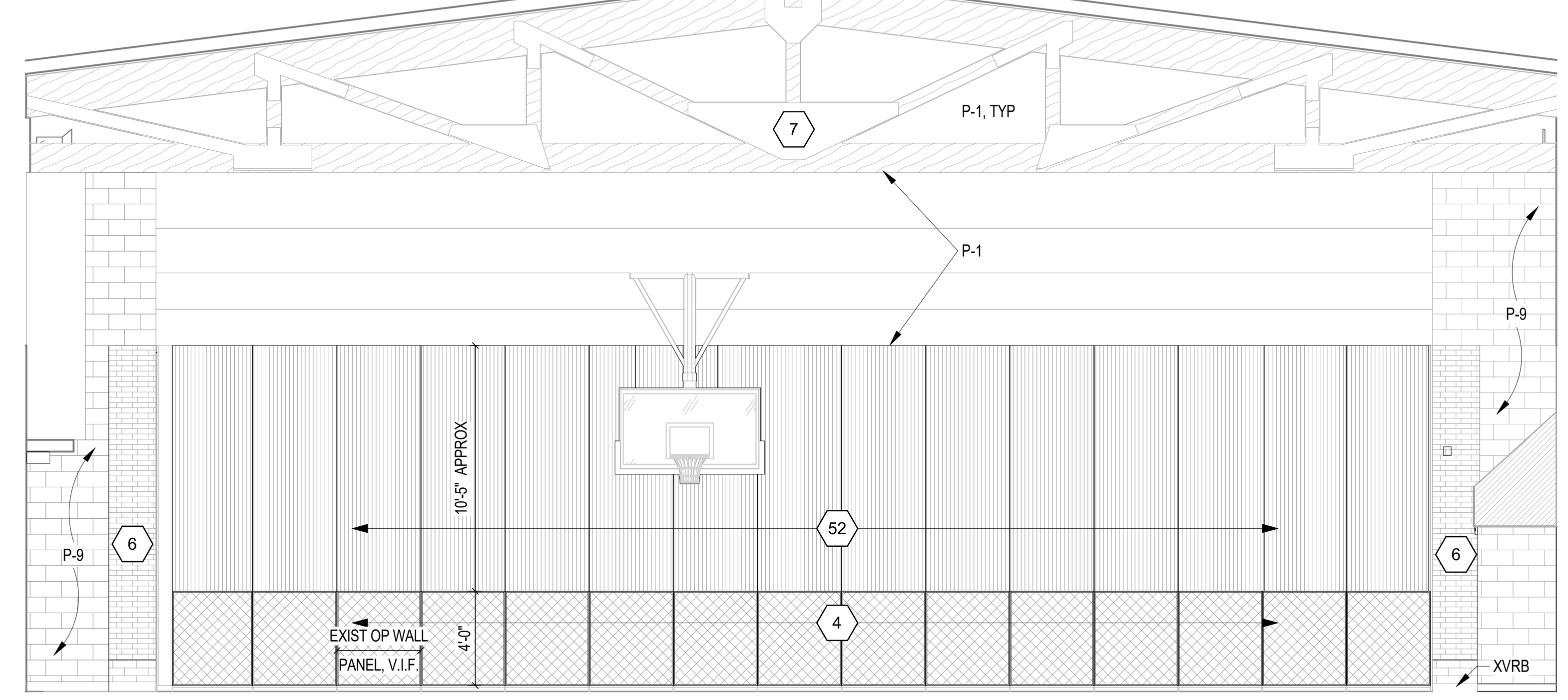
2 **GYM - SOUTH**

SCALE: 3/16" = 1'-0"



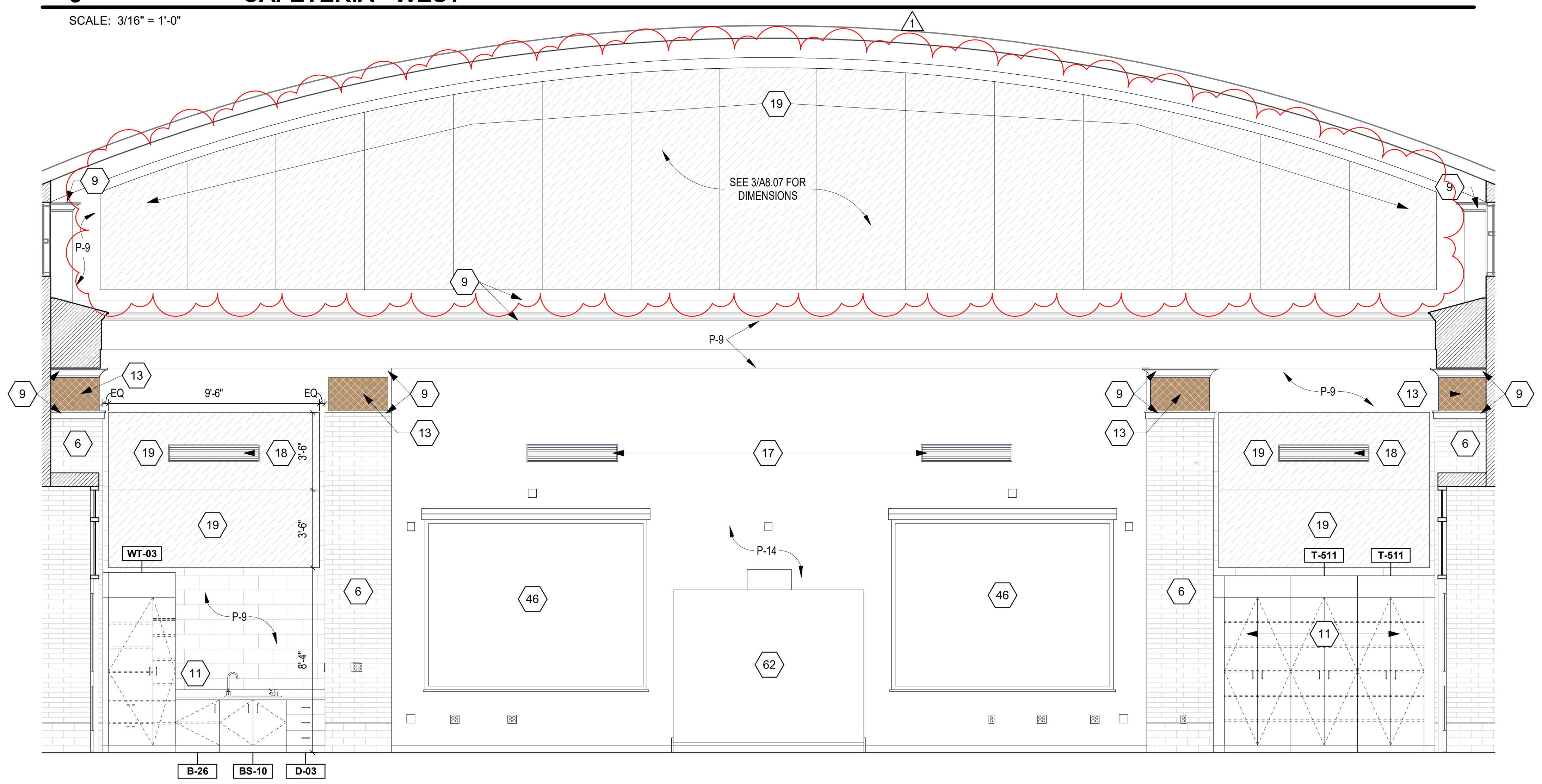
8 **CAFETERIA - WEST**

SCALE: 3/16" = 1'-0"



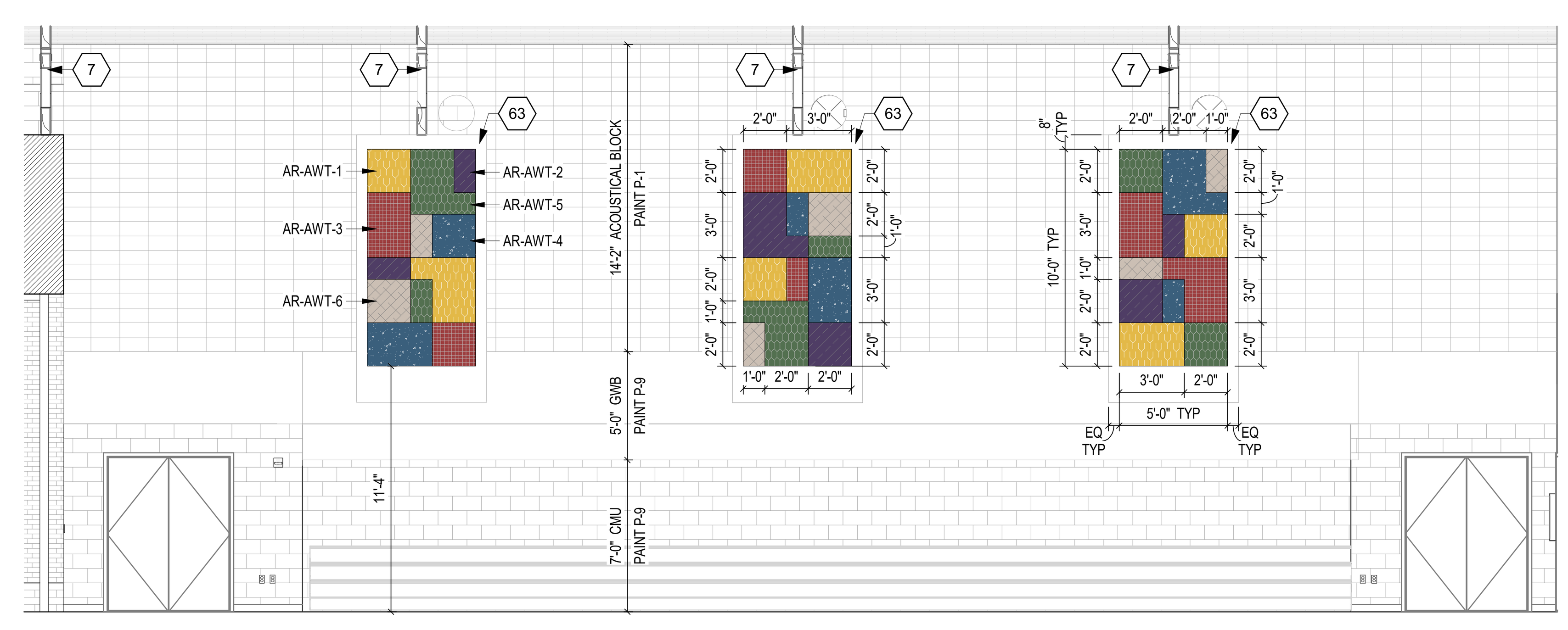
3 **GYM - WEST**

SCALE: 3/16" = 1'-0"



9 **STEAM LAB - SOUTH**

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



4 **GYM - NORTH**

SCALE: 3/16" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 NEW VRB-1 ALONG WEST WALL
2 EXISTING EQUIPMENT TO REMAIN
3 RECOVER EXISTING OPERABLE WALL WITH VWC-1
4 INSTALL 4'H WALL PROTECTION (WP-1) ON EXISTING OPERABLE WALL. INCLUDE J-TRIM ON ALL SIDES, MITER CORNERS
5 INSTALL NEW ACOUSTICAL WALL TILE, AWT-1
6 HATCH INDICATES BRICK, DO NOT PAINT
7 EXISTING WOOD TRUSSES TO REMAIN, PROTECT DURING CONSTRUCTION
8 INSTALL RSF-2 ON TREADS AND RISERS WITH RSA-1 NOSING ON STEPS AND EDGE OF STAGE; REFER TO DETAIL 6/A8.10
9 REPAINT EXISTING WOOD TRIM AND GWB CAP, P-13
10 NEW STAGE CURTAIN (SC-1)
11 PL-3 CASEWORK WITH SSM-3 COUNTERTOP
12 EXISTING WOOD CEILING TO REMAIN, PROTECT DURING CONSTRUCTION
13 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF EXISTING PLASTIC LAMINATE PANELING
14 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-2
15 PAINT NEW TRIM, P-13
16 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF NEW COLUMN AS INDICATED BY HATCHING
17 MECHANICAL GRILLE, REFER TO MECH DRAWINGS
18 MECHANICAL GRILLE, REFER TO MECH DRAWINGS. ALIGN FACE OF GRILLE WITH FRONT OF SFWS ASSEMBLY
19 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-1
20 TACKABLE WALL SURFACE, TWS-1; REFER TO A7 PLANS FOR LENGTH
21 STAINED WOOD NOOK AND DISPLAY ASSEMBLY, REFER TO SECTION FOR ADDITIONAL DETAILS
22 INSTALL PWT-6 ON WALL(S), TILE EXTENTS AS SHOWN WITH HATCHING. TILE TO BE INSTALLED PRIOR TO COLUMN TRIM INSTALLATION (1)
23 PROVIDE LOCK ON THIS CABINET, TECHNOLOGY HOUSED INSIDE
24 EXISTING DISPLAY CASE TO REMAIN, REPLACE FINISHES AS NOTED IN A8 SERIES
25 INSTALL CWT ON NEW COLUMN/ WALL WITH SCHLUTER QUADEC OUTSIDE CORNERS AND JOLLY TRIM AT FLOOR, REFER TO DETAILS ON A8.10, REFER TO TEXT NOTE FOR TILE COLOR
26 PAINT EXISTING BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 17/A8.05 FOR DETAIL
27 APPLY IFS-1 FINISH ON ALL SIDES OF EXISTING BULKHEAD WITH EXISTING EIFS FINISH
28 APPLY IFS-1 FINISH ON ALL SIDES OF NEW BULKHEAD
29 GRAY SHADING INDICATES INSTALLATION OF FROSTED FILM, DFO-1
30 SOLID SURFACE KNEE WALL CAP, SSM-2, REFER TO DETAIL 2/A5.04
31 PAINT ALL SIDES OF BULKHEAD INDICATED COLOR
32 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 15/A8.09 & 1-7/A9.04
33 INFILL BRICK (BRK-1) WHERE FIRE ANNUNCIATOR PANEL WAS REMOVED
34 INFILL BRICK (BRK-1) WITH UTILITY BRICK BASE (BRK-2) WHERE SIDE FOLDING GATE WAS REMOVED; TOOTH IN NEW BRICK AS REQUIRED TO ELIMINATE CUT BRICK
35 9"H DIMENSIONAL LETTERS
36 PAINT CORRIDOR SIDE OF EXISTING WOOD DOOR/TRANSOM AND HOLLOW METAL FRAME PAINT COLOR INDICATED IN TEXT NOTE
37 PAINT EXISTING BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
38 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
39 GROUP RESTROOM ENTRY, REFER TO 18/A8.09 FOR DETAILS
40 PAINT CORRIDOR SIDE OF EXISTING WOOD DOOR/TRANSOM AND HOLLOW METAL FRAME PAINT COLOR INDICATED IN TEXT NOTE, P-10
41 INSTALL SCHLUTER QUADEC OUTSIDE CORNER TRIM, REFER TO DETAIL ON A8.10
42 DEF-1 BASE WITH SCHLUTER JOLLY TRIM AT TILE TERMINATION, REFER TO DETAIL ON A8.10
43 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
44 PAINT ALL SIDES OF EXISTING GWB FORM, P-14
45 CWT-1 INSTALLED IN HORIZONTAL STRAIGHT LAY PATTERN
46 PROJECTION SCREEN, REFER TO A7 PLANS FOR DETAILS
47 PL-3 SHELVING WITH PL-3 COUNTERTOP
48 PL-3 SHELVING
49 PL-3 FILLER BETWEEN TILED SURROUND AND SHELVING
50 MONITOR, REFER TO TECHNOLOGY DRAWINGS
51 INSTALL WVWC-1 WRAP ON BULKHEAD
52 RECOVER EXISTING OPERABLE WALL WITH AWC-1 ABOVE WP-1 WAINSCOT
53 OPEN SEATING NOOK WITH UPHOLSTERED BACK AND SEAT
54 INSTALL PWT-10 ON NEW COLUMN WITH SCHLUTER QUADEC OUTSIDE CORNERS, REFER TO DETAILS ON A8.10 AND 1/A1.02
55 PAINT ONLY CORRIDOR SIDE OF BULKHEAD P-11, OTHER SIDE TO BE PAINTED P-1
57 OVERHEAD COILING DOOR/ OVERHEAD COUNTER DOOR, REFER TO A1 SERIES DRAWINGS
58 INSTALL NEW ACOUSTICAL WALL TILE AS NOTED, OVER EXTENTS OF EXISTING ACOUSTICAL BRICK, SHOWN WITH DASHED LINES
59 REFER TO DETAIL 3/A8.10 FOR LMC-1 END WALL DETAIL
60 REFER TO DETAIL 5/A5.08 FOR LMC-1 RETURN AT DOOR FRAMES (1)
61 REFER TO DETAIL 2/A8.10 FOR LMC-1 CEILING TO WALL DETAIL
62 FIRST MAKER SPACE VEX IQ TABLE, PROVIDED AND INSTALLED BY OWNER
63 PAINT ALL SIDES OF EXISTING GWB STRUCTURE, P-1
64 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-3

VERIFICATION NOTE

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SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

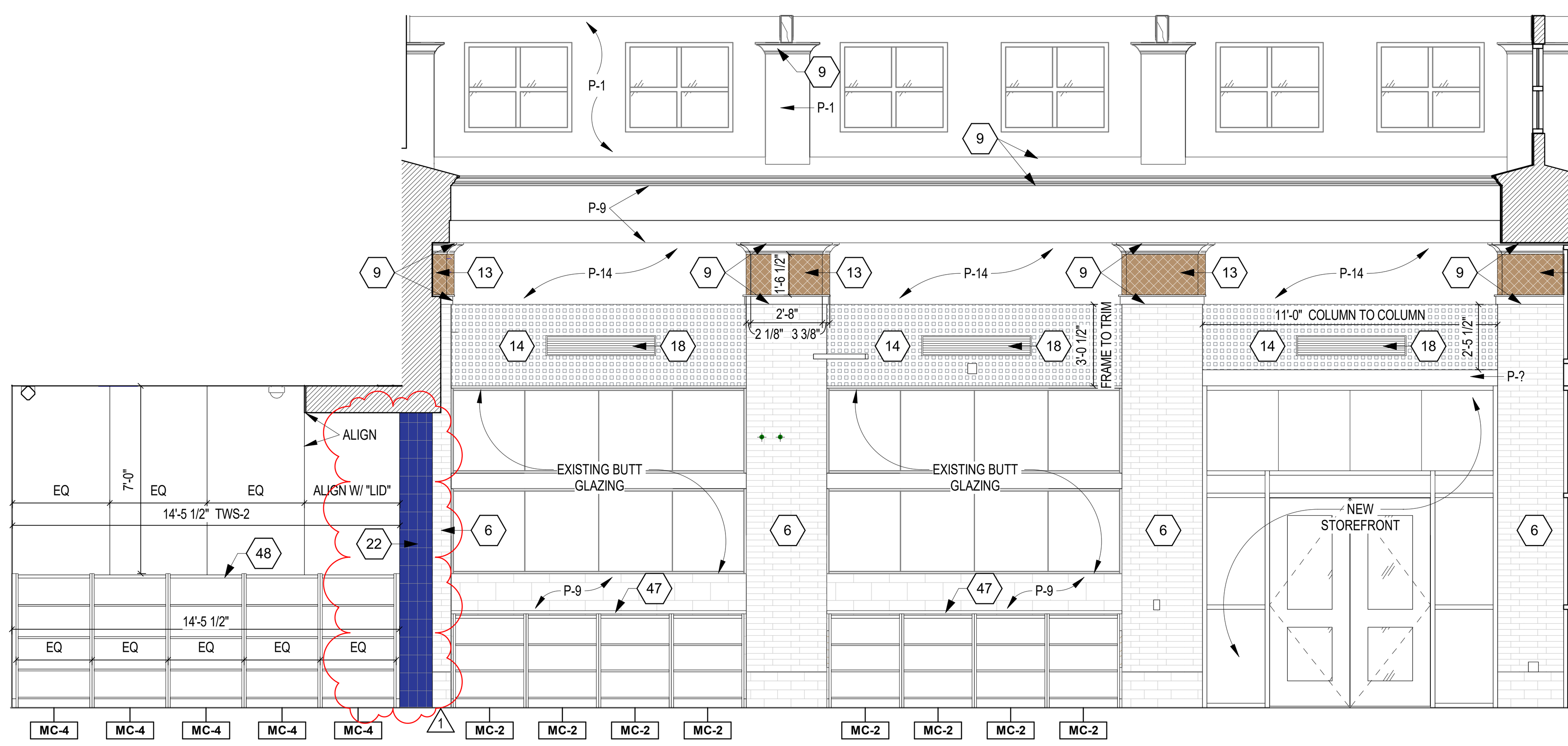
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

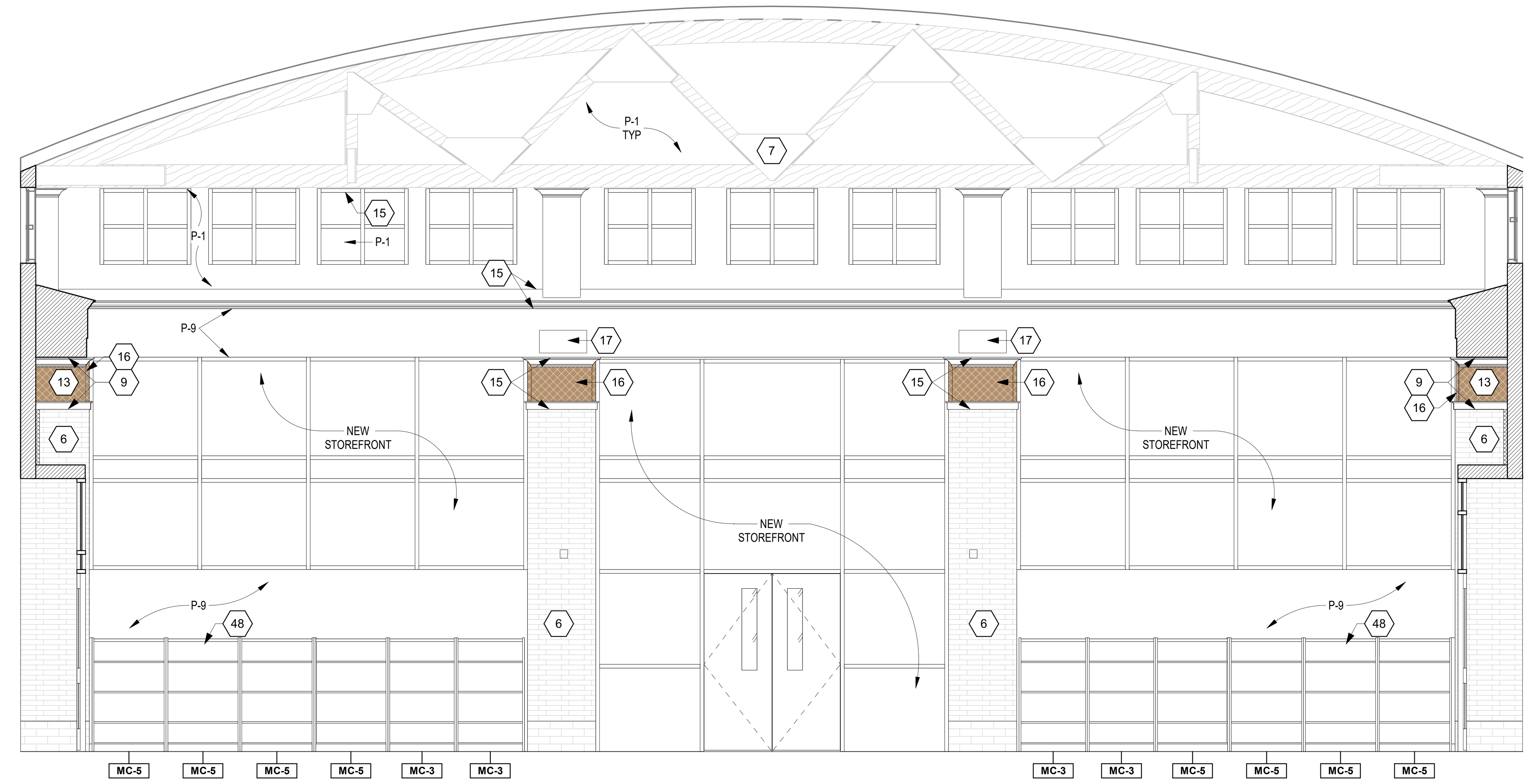
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

INTERIOR ELEVATIONS

A8.06



1 DISCOVERY CENTER - EAST
SCALE: 1/4" = 1'-0"



2 DISCOVERY CENTER - SOUTH
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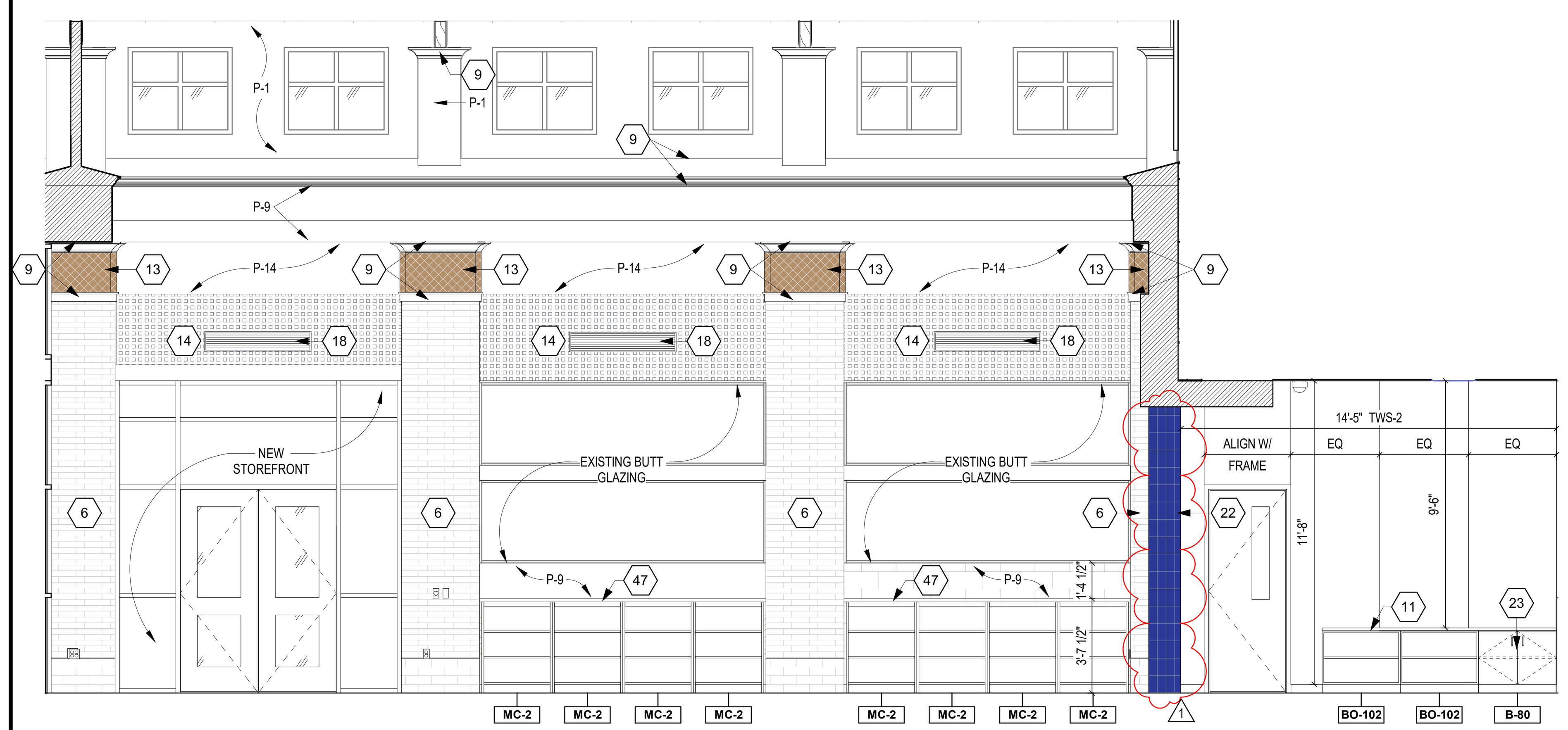

4 DISCOVERY CENTER - WEST
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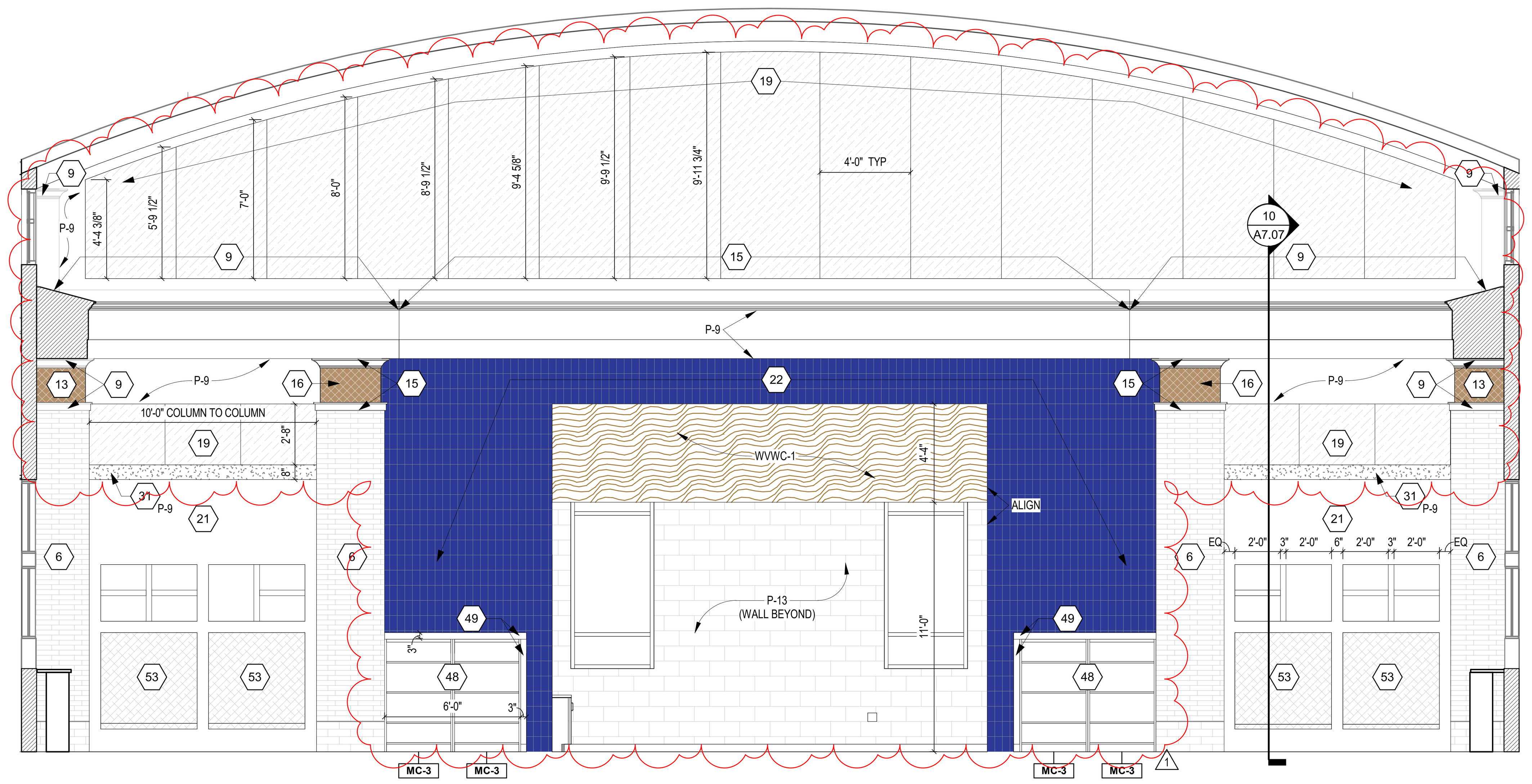
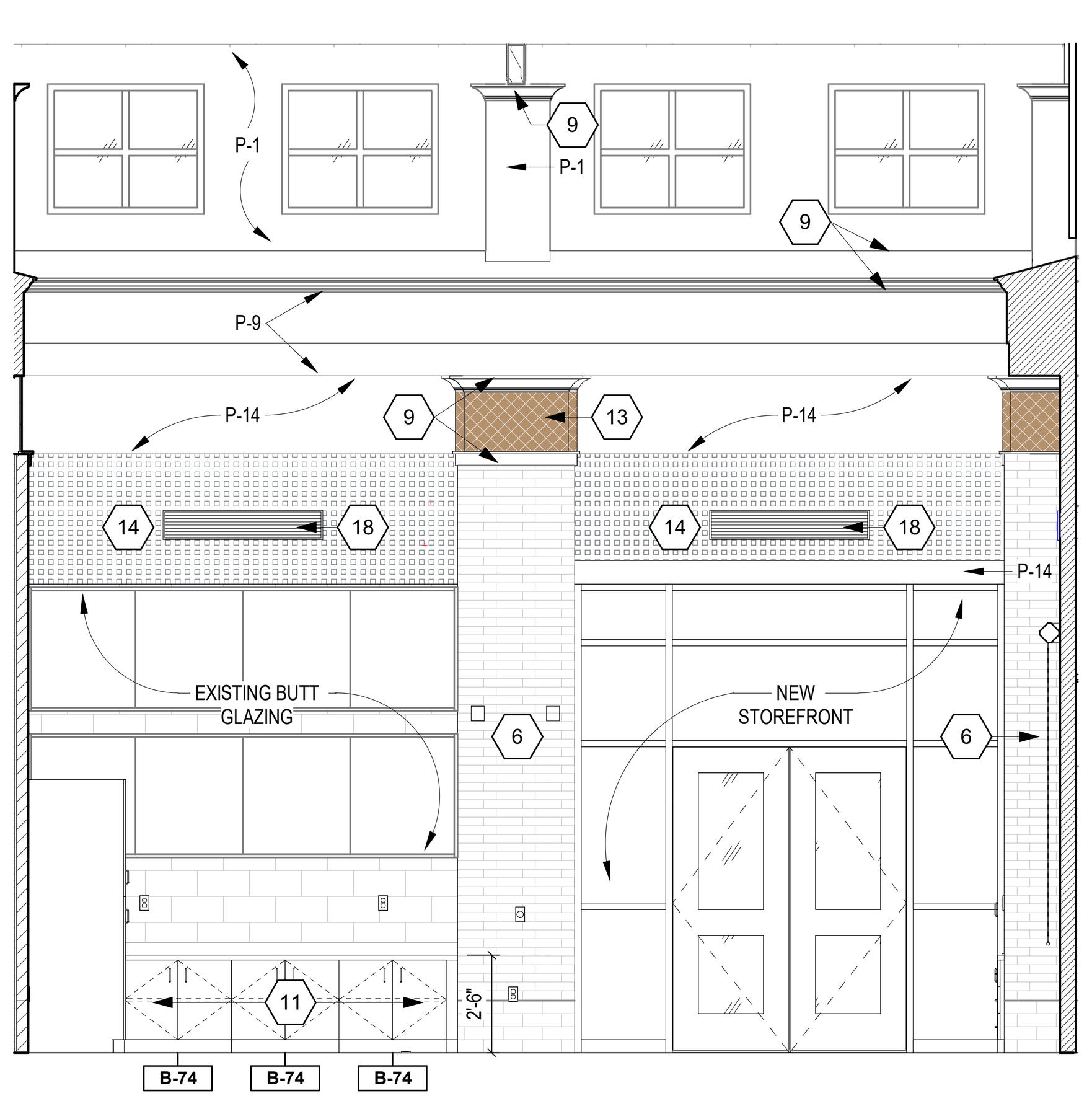
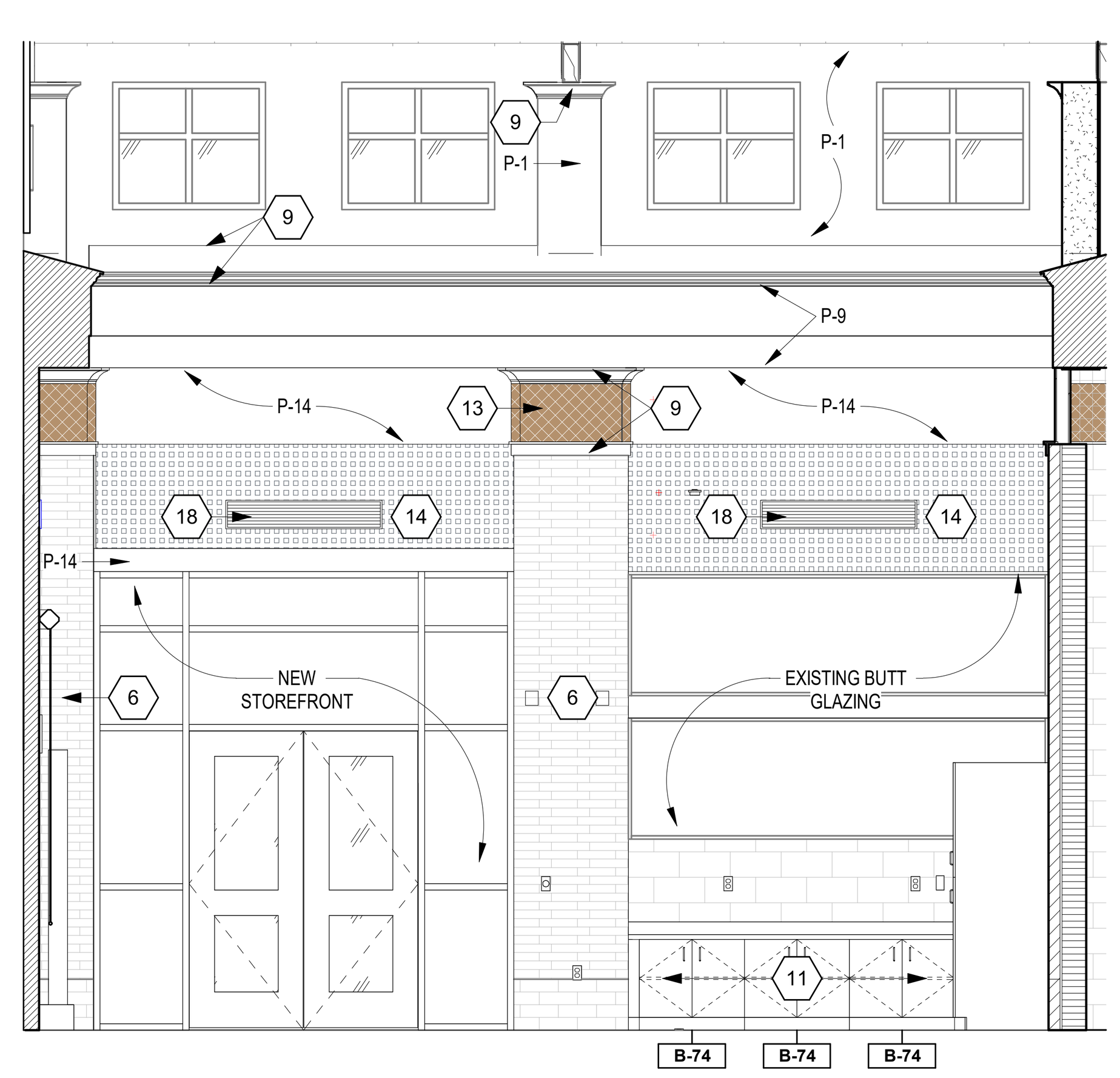


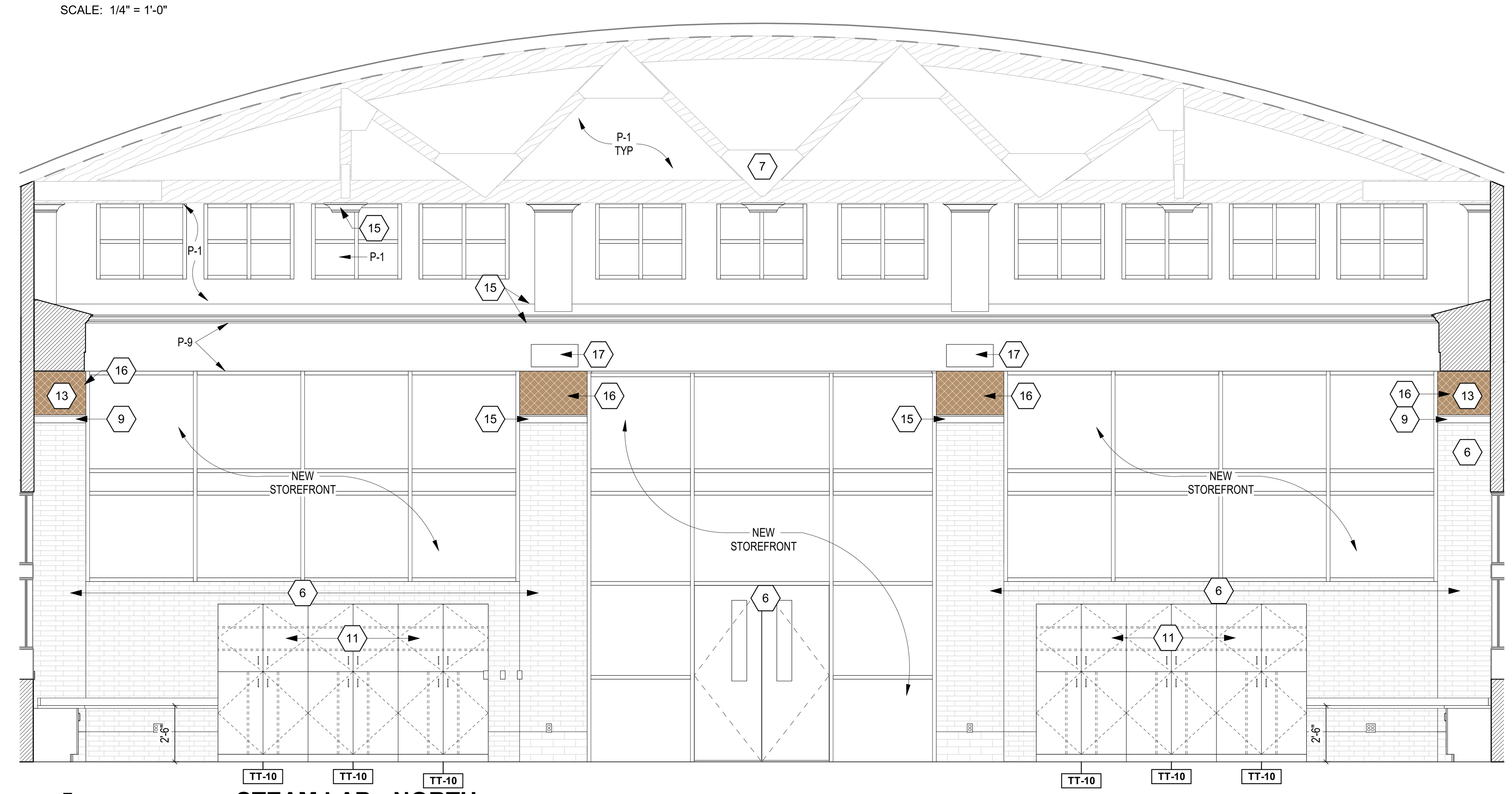
3 DISCOVERY CENTER - NORTH
SCALE: 1/4" = 1'-0"



6 STEAM LAB - EAST
SCALE: 1/4" = 1'-0"



7 STEAM LAB - WEST
SCALE: 1/4" = 1'-0"



5 STEAM LAB - NORTH
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 NEW VRB-1 ALONG WEST WALL
2 EXISTING EQUIPMENT TO REMAIN
3 RECOVER EXISTING OPERABLE WALL WITH VWC-1
4 INSTALL 4'H WALL PROTECTION (WP-1) ON EXISTING OPERABLE WALL. INCLUDE J-TRIM ON ALL SIDES, MITER CORNERS
5 INSTALL NEW ACOUSTICAL WALL TILE, AWT-1
6 HATCH INDICATES BRICK, DO NOT PAINT
7 EXISTING WOOD TRUSSES TO REMAIN, PROTECT DURING CONSTRUCTION
8 INSTALL RSF-2 ON TREADS AND RISERS WITH RSA-1 NOSING ON STEPS AND EDGE OF STAGE; REFER TO DETAIL 6/A8.10
9 REPAINT EXISTING WOOD TRIM AND GWB CAP, P-13
10 NEW STAGE CURTAIN (SC-1)
11 PL-3 CASEWORK WITH SSM-3 COUNTERTOP
12 EXISTING WOOD CEILING TO REMAIN, PROTECT DURING CONSTRUCTION
13 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF EXISTING PLASTIC LAMINATE PANELING
14 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-2
15 PAINT NEW TRIM, P-13
16 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF NEW COLUMN AS INDICATED BY HATCHING
17 MECHANICAL GRILLE, REFER TO MECH DRAWINGS
18 MECHANICAL GRILLE, REFER TO MECH DRAWINGS. ALIGN FACE OF GRILLE WITH FRONT OF SFWS ASSEMBLY
19 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-1
20 TACKABLE WALL SURFACE, TWS-1; REFER TO A7 PLANS FOR LENGTH
21 STAINED WOOD NOOK AND DISPLAY ASSEMBLY, REFER TO SECTION FOR ADDITIONAL DETAILS
22 INSTALL PWT-6 ON WALL(S), TILE EXTENTS AS SHOWN WITH HATCHING. TILE TO BE INSTALLED PRIOR TO COLUMN TRIM INSTALLATION (1)
23 PROVIDE LOCK ON THIS CABINET, TECHNOLOGY HOUSED INSIDE
24 EXISTING DISPLAY CASE TO REMAIN, REPLACE FINISHES AS NOTED IN A8 SERIES
25 INSTALL CWT ON NEW COLUMN/ WALL WITH SCHLUTER QUADEC OUTSIDE CORNERS AND JOLLY TRIM AT FLOOR, REFER TO DETAILS ON A8.10, REFER TO TEXT NOTE FOR TILE COLOR
26 PAINT EXISTING BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 17/A8.05 FOR DETAIL
27 APPLY IFS-1 FINISH ON ALL SIDES OF EXISTING BULKHEAD WITH EXISTING EIFS FINISH
28 APPLY IFS-1 FINISH ON ALL SIDES OF NEW BULKHEAD
29 GRAY SHADING INDICATES INSTALLATION OF FROSTED FILM, DFO-1
30 SOLID SURFACE KNEE WALL CAP, SSM-2, REFER TO DETAIL 2/A5.04
31 PAINT ALL SIDES OF BULKHEAD INDICATED COLOR
32 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 15/A8.09 & 1-7/A9.04
33 INFILL BRICK (BRK-1) WHERE FIRE ANNUNCIATOR PANEL WAS REMOVED
34 INFILL BRICK (BRK-1) WITH UTILITY BRICK BASE (BRK-2) WHERE SIDE FOLDING GATE WAS REMOVED; TOOTH IN NEW BRICK AS REQUIRED TO ELIMINATE CUT BRICK
35 9"H DIMENSIONAL LETTERS
36 PAINT CORRIDOR SIDE OF EXISTING WOOD DOOR/TRANSOM AND HOLLOW METAL FRAME PAINT COLOR INDICATED IN TEXT NOTE
37 PAINT EXISTING BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
38 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
39 GROUP RESTROOM ENTRY, REFER TO 18/A8.09 FOR DETAILS
40 PAINT CORRIDOR SIDE OF EXISTING WOOD DOOR/TRANSOM AND HOLLOW METAL FRAME PAINT COLOR INDICATED IN TEXT NOTE, P-10
41 INSTALL SCHLUTER QUADEC OUTSIDE CORNER TRIM, REFER TO DETAIL ON A8.10
42 DEF-1 BASE WITH SCHLUTER JOLLY TRIM AT TILE TERMINATION, REFER TO DETAIL ON A8.10
43 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
44 PAINT ALL SIDES OF EXISTING GWB FORM, P-14
45 CWT-1 INSTALLED IN HORIZONTAL STRAIGHT LAY PATTERN
46 PROJECTION SCREEN, REFER TO A7 PLANS FOR DETAILS
47 PL-3 SHELVING WITH PL-3 COUNTERTOP
48 PL-3 SHELVING
49 PL-3 FILLER BETWEEN TILED SURROUND AND SHELVING
50 MONITOR, REFER TO TECHNOLOGY DRAWINGS
51 INSTALL WVWC-1 WRAP ON BULKHEAD
52 RECOVER EXISTING OPERABLE WALL WITH AWC-1 ABOVE WP-1 WAINSCOT
53 OPEN SEATING NOOK WITH UPHOLSTERED BACK AND SEAT
54 INSTALL PWT-10 ON NEW COLUMN WITH SCHLUTER QUADEC OUTSIDE CORNERS, REFER TO DETAILS ON A8.10 AND 1/A1.02
55 PAINT ONLY CORRIDOR SIDE OF BULKHEAD P-11, OTHER SIDE TO BE PAINTED P-1
57 OVERHEAD COILING DOOR/ OVERHEAD COUNTER DOOR, REFER TO A1 SERIES DRAWINGS
58 INSTALL NEW ACOUSTICAL WALL TILE AS NOTED, OVER EXTENTS OF EXISTING ACOUSTICAL BRICK, SHOWN WITH DASHED LINES
59 REFER TO DETAIL 3/A8.10 FOR LMC-1 END WALL DETAIL
60 REFER TO DETAIL 5/A5.08 FOR LMC-1 RETURN AT DOOR FRAMES (1)
61 REFER TO DETAIL 2/A8.10 FOR LMC-1 CEILING TO WALL DETAIL
62 FIRST MAKER SPACE VEX IQ TABLE, PROVIDED AND INSTALLED BY OWNER
63 PAINT ALL SIDES OF EXISTING GWB STRUCTURE, P-1
64 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-3

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

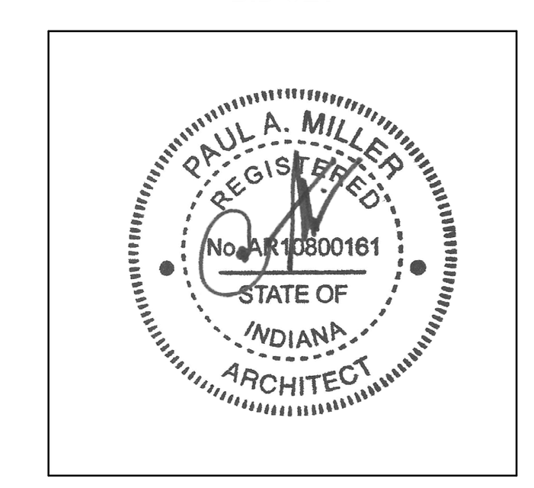
900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET



PROJECT MANAGER: KRS
DRAWN BY: AML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

INTERIOR ELEVATIONS

A8.07

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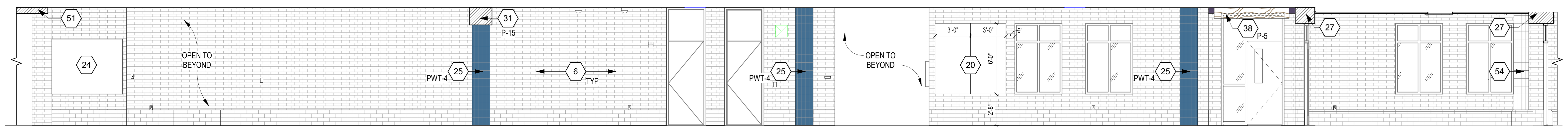

1 **C104 CORRIDOR - EAST**

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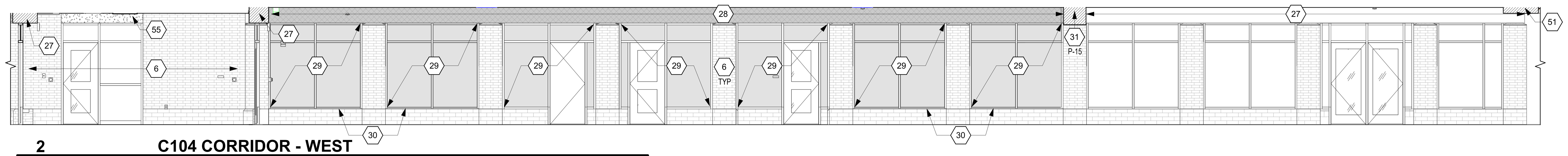

2 **C104 CORRIDOR - WEST**

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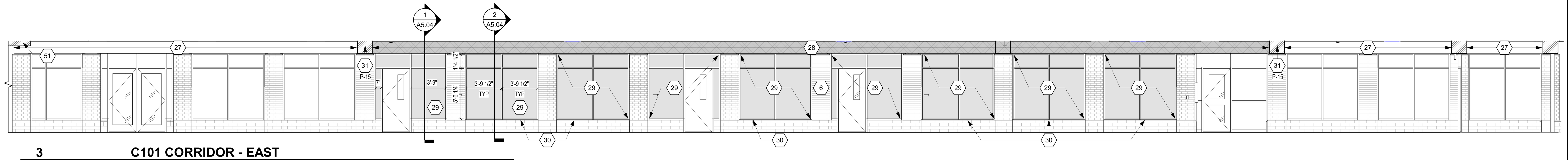

3 **C101 CORRIDOR - EAST**

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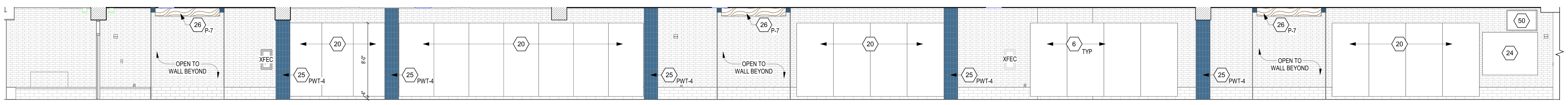

4 **C101 CORRIDOR - WEST**

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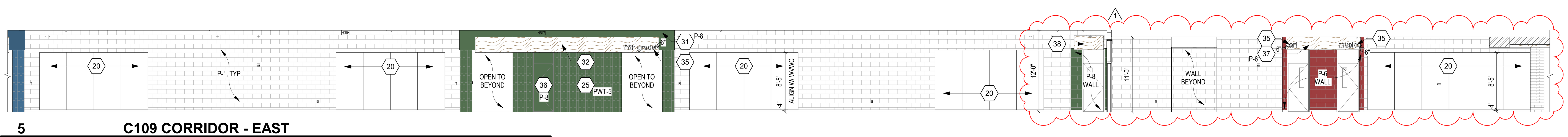

5 **C109 CORRIDOR - EAST**

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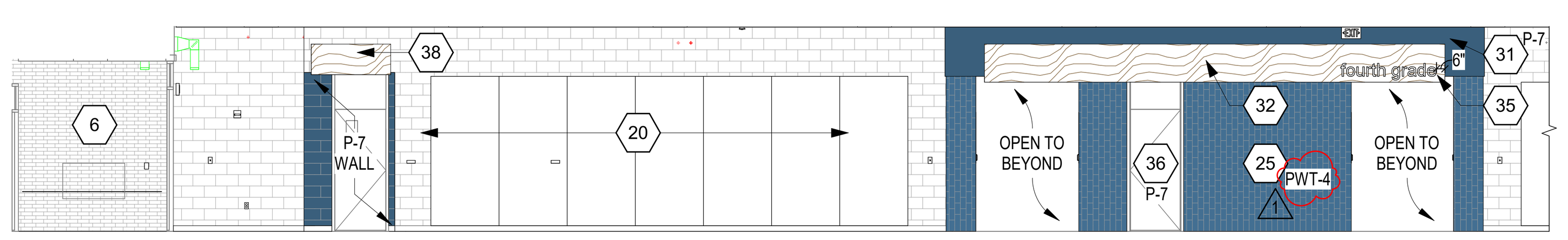

6 **C117 CORRIDOR - EAST**

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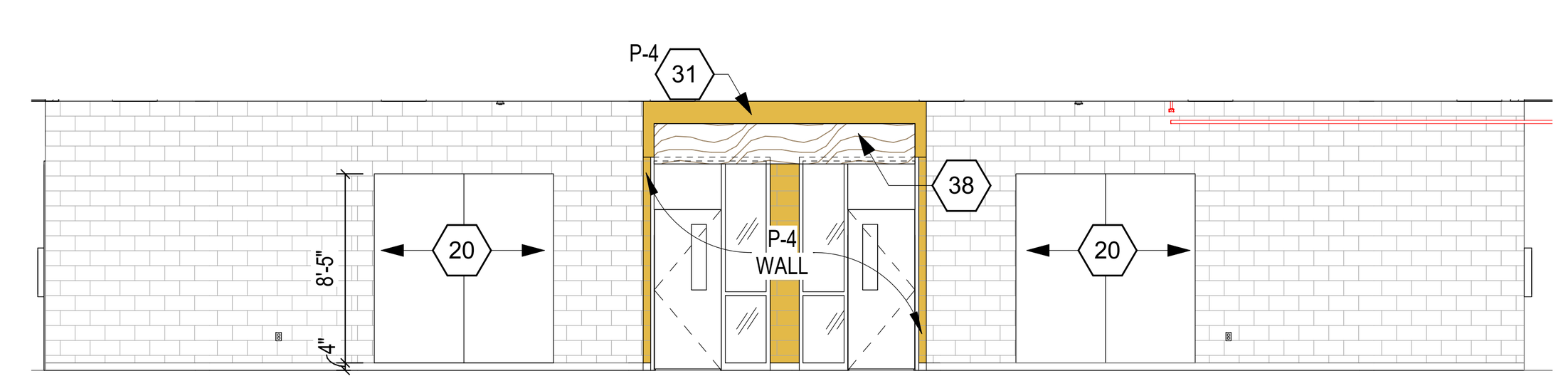
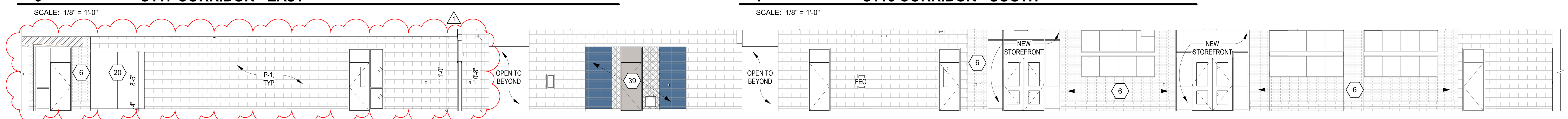


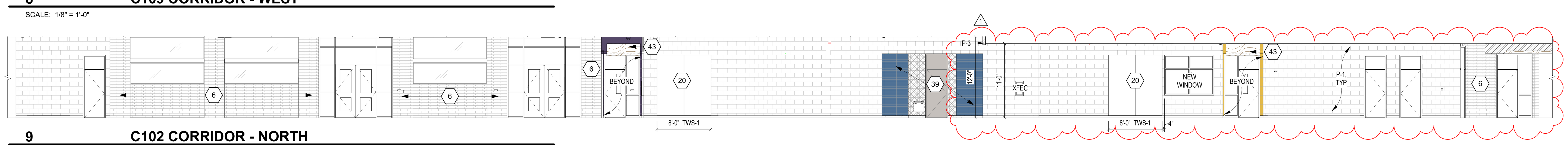
7 **C118 CORRIDOR - SOUTH**

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



8 **C109 CORRIDOR - WEST**

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



9 **C102 CORRIDOR - NORTH**

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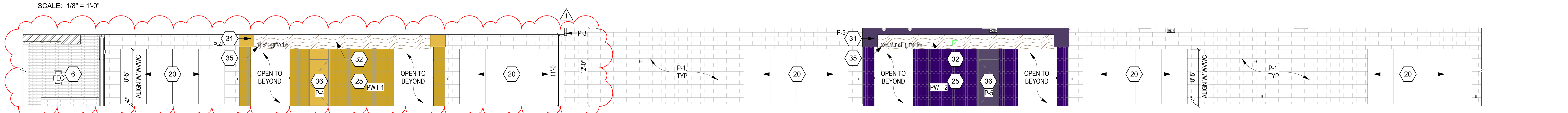

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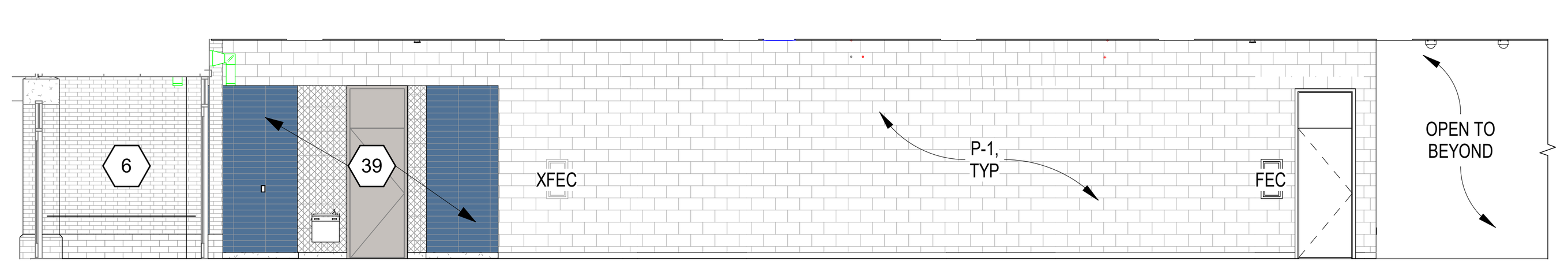
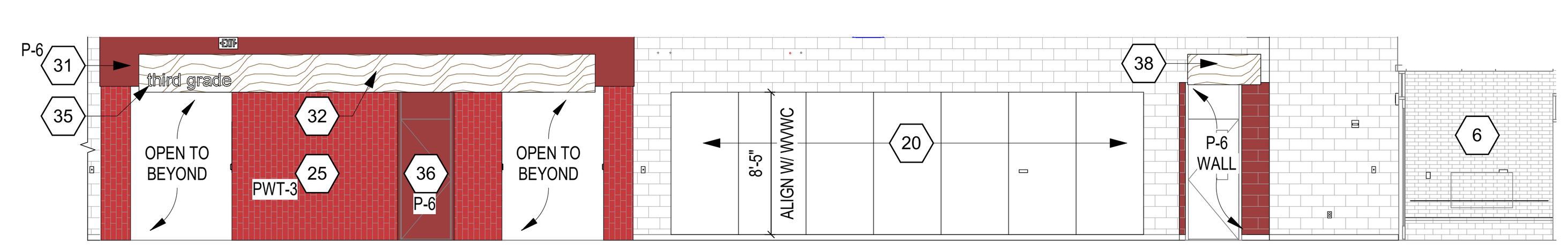


11 **C119 CORRIDOR - EAST**

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



12 **C119 CORRIDOR - WEST**

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

INTERIOR ELEVATION NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 NEW VRB-1 ALONG WEST WALL
2 EXISTING EQUIPMENT TO REMAIN
3 RECOVER EXISTING OPERABLE WALL WITH VWC-1
4 INSTALL 4'H WALL PROTECTION (WP-1) ON EXISTING OPERABLE WALL. INCLUDE J-TRIM ON ALL SIDES, MITER CORNERS
5 INSTALL NEW ACOUSTICAL WALL TILE, AWT-1
6 HATCH INDICATES BRICK, DO NOT PAINT
7 EXISTING WOOD TRUSSES TO REMAIN, PROTECT DURING CONSTRUCTION
8 INSTALL RSF-2 ON TREADS AND RISERS WITH RSA-1 NOSING ON STEPS AND EDGE OF STAGE; REFER TO DETAIL 6/A8.10
9 REPAINT EXISTING WOOD TRIM AND GWB CAP, P-13
10 NEW STAGE CURTAIN (SC-1)
11 PL-3 CASEWORK WITH SSM-3 COUNTERTOP
12 EXISTING WOOD CEILING TO REMAIN, PROTECT DURING CONSTRUCTION
13 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF EXISTING PLASTIC LAMINATE PANELING
14 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-2
15 PAINT NEW TRIM, P-13
16 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF NEW COLUMN AS INDICATED BY HATCHING
17 MECHANICAL GRILLE, REFER TO MECH DRAWINGS
18 MECHANICAL GRILLE, REFER TO MECH DRAWINGS. ALIGN FACE OF GRILLE WITH FRONT OF SFWS ASSEMBLY
19 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-1
20 TACKABLE WALL SURFACE, TWS-1; REFER TO A7 PLANS FOR LENGTH
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CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS, IN 46204

BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

INTERIOR ELEVATIONS

A8.08

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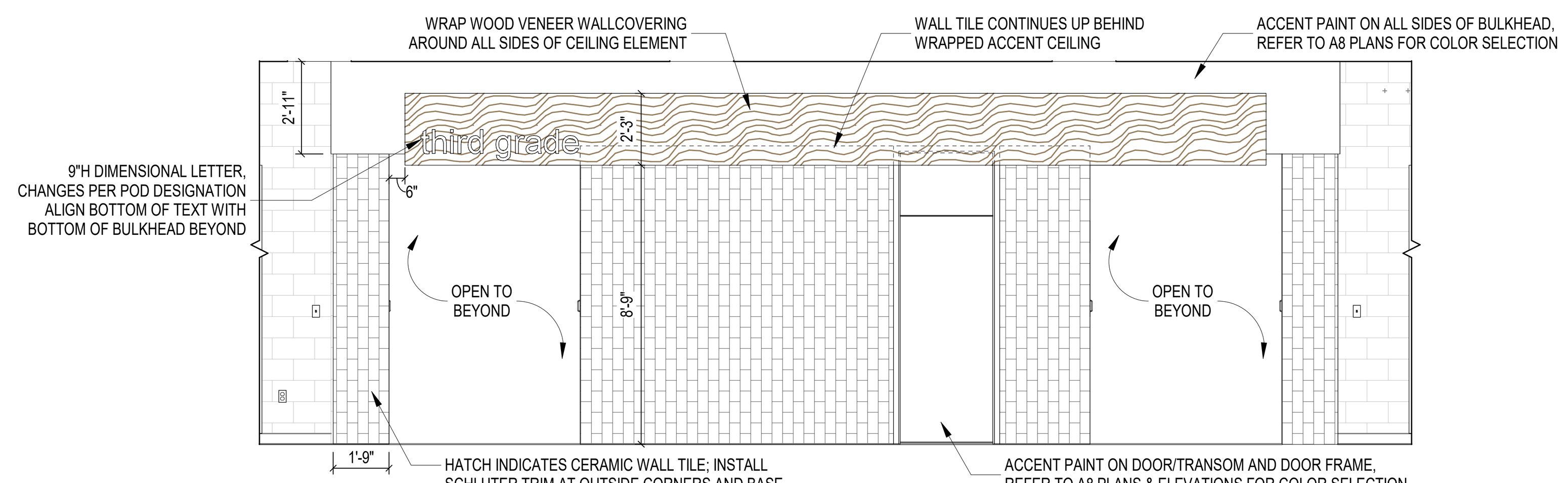
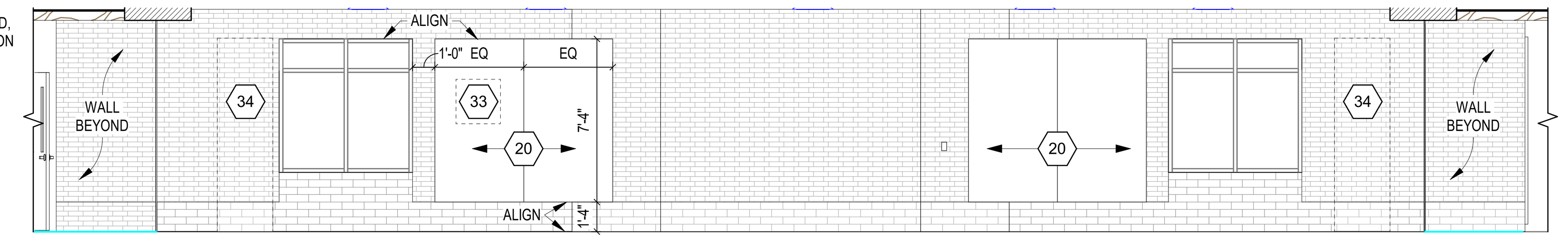


15 TYPICAL POD ENTRY
SCALE: 1/4" = 1'-0"



1 C103 CORRIDOR - NORTH
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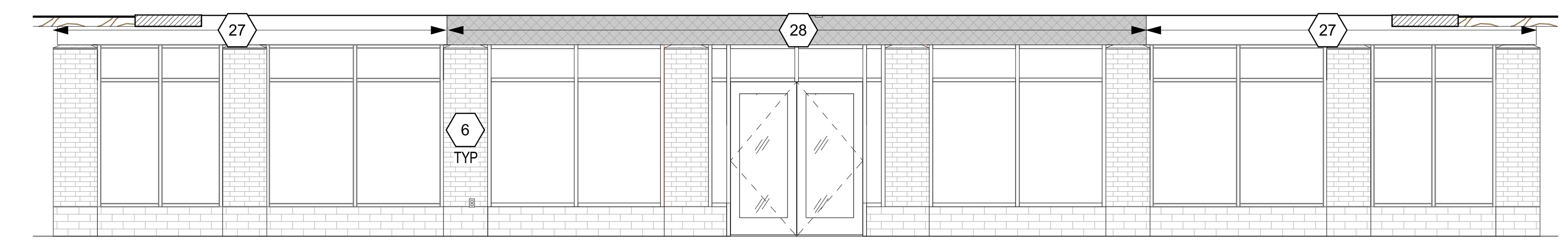

2 C103 CORRIDOR - SOUTH
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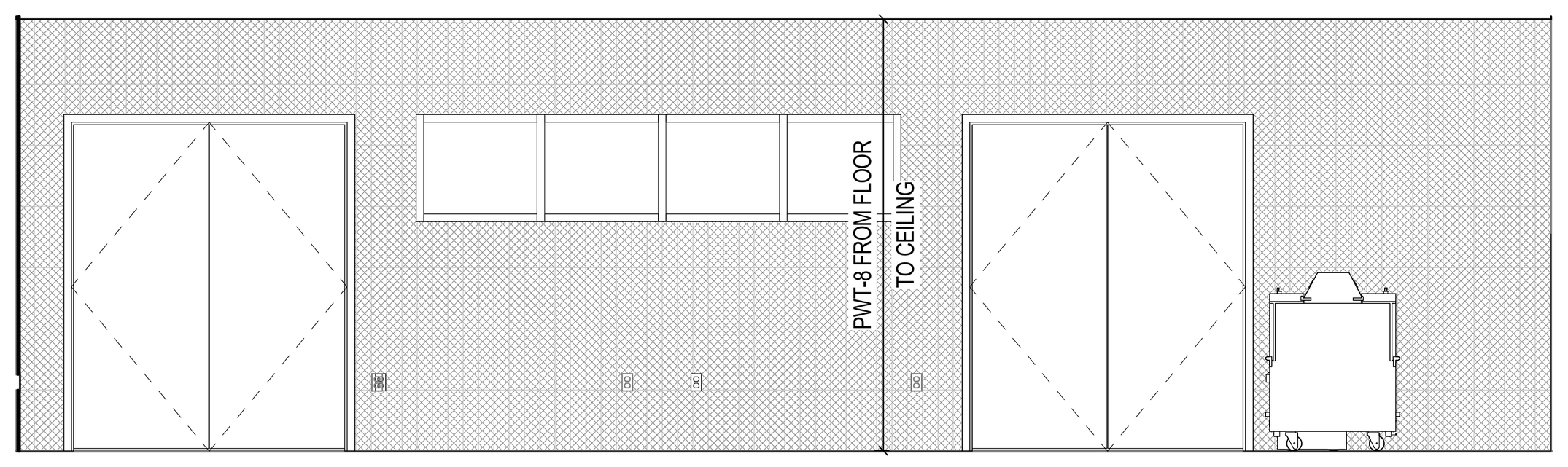
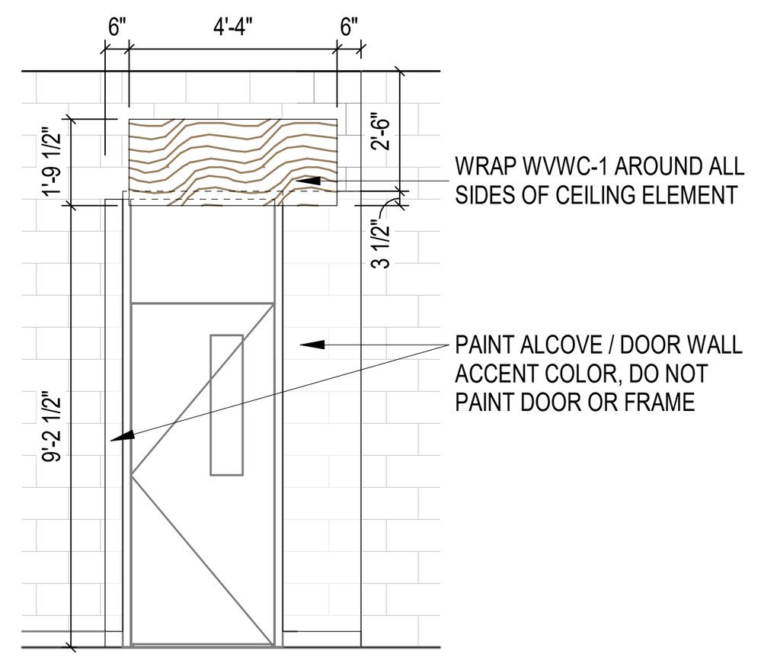
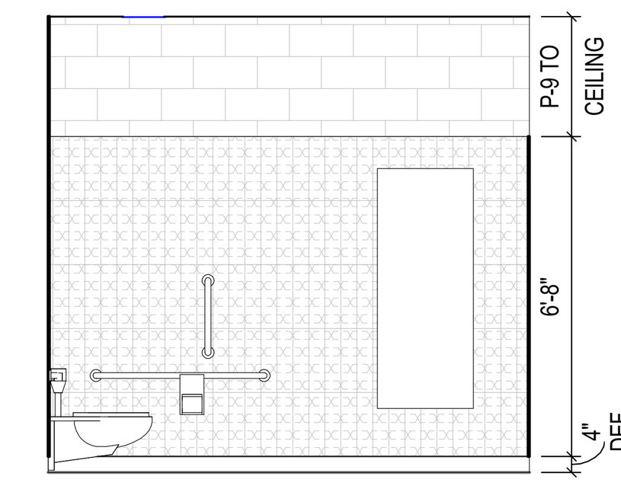


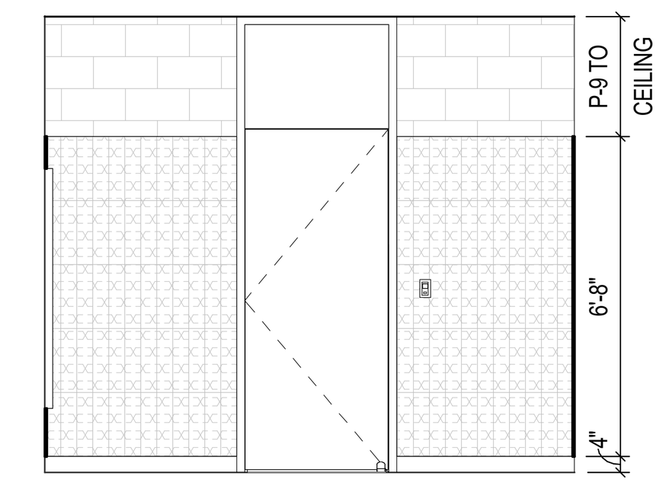
22 SERVING TILE
SCALE: 1/4" = 1'-0"



16 TYP 12' CORRIDOR SMALL CLASSROOM ENTRY BULKHEAD
SCALE: 1/4" = 1'-0"



3 301 RR - EAST
SCALE: 1/4" = 1'-0"



4 301 RR - SOUTH
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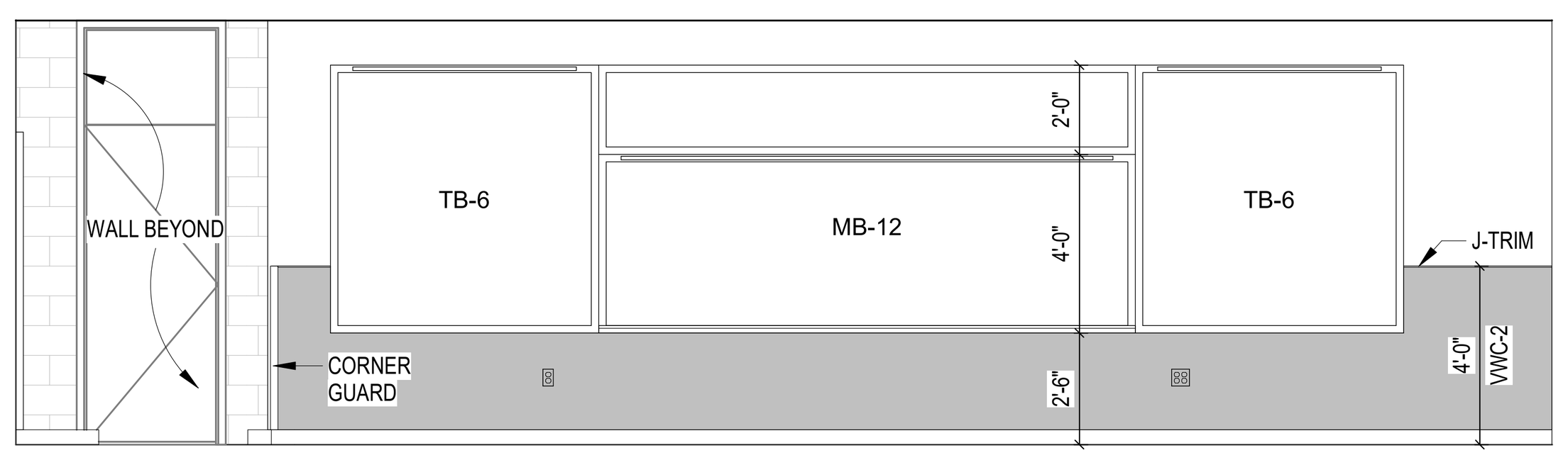
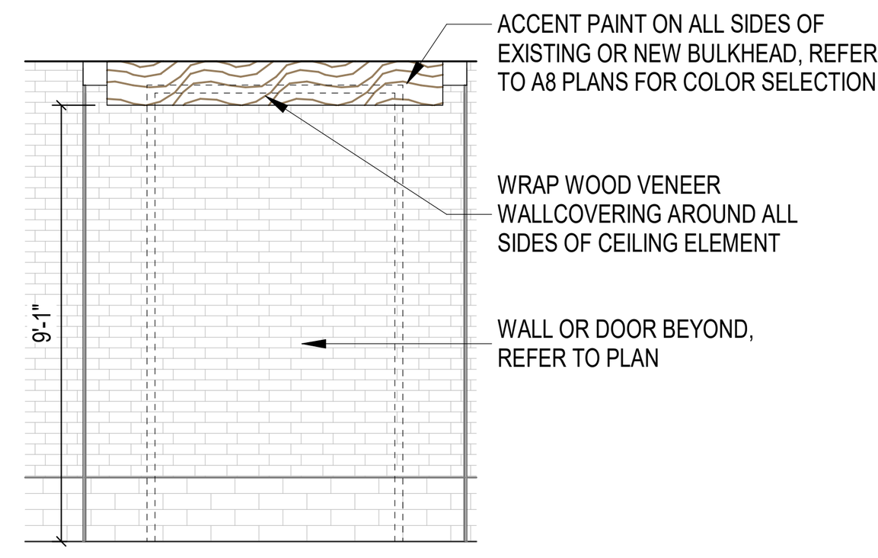
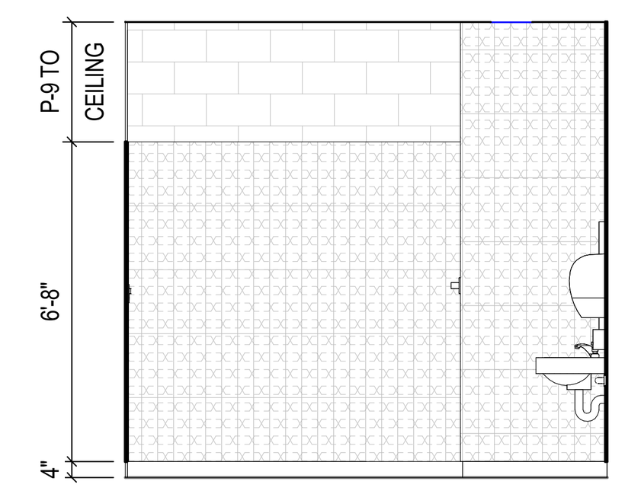


23 106 FLEX ROOM - SOUTH
SCALE: 1/4" = 1'-0"



17 TYP 10' CORRIDOR SMALL CLASSROOM ENTRY BULKHEAD
SCALE: 1/4" = 1'-0"



5 301 RR - WEST
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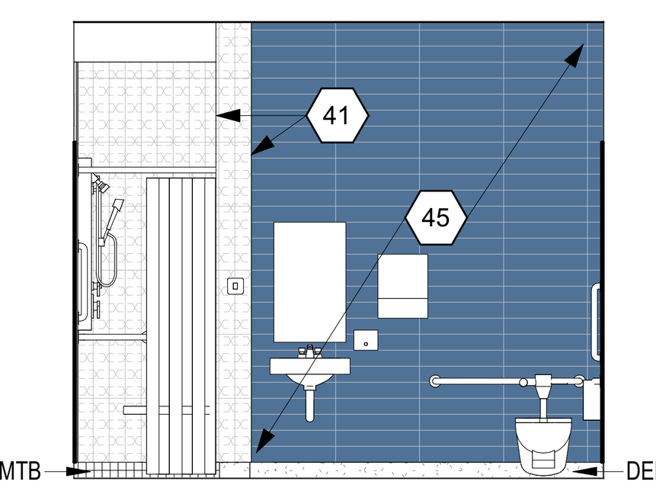

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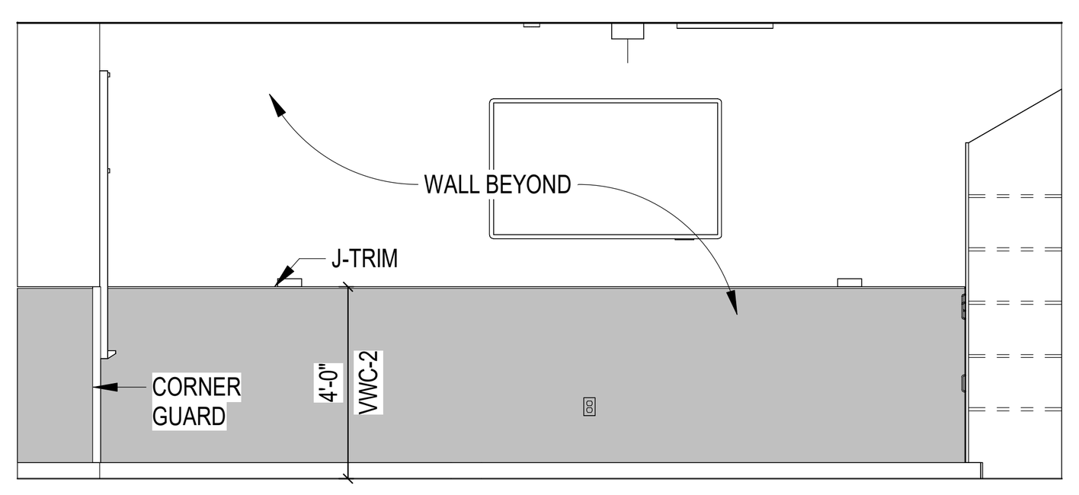
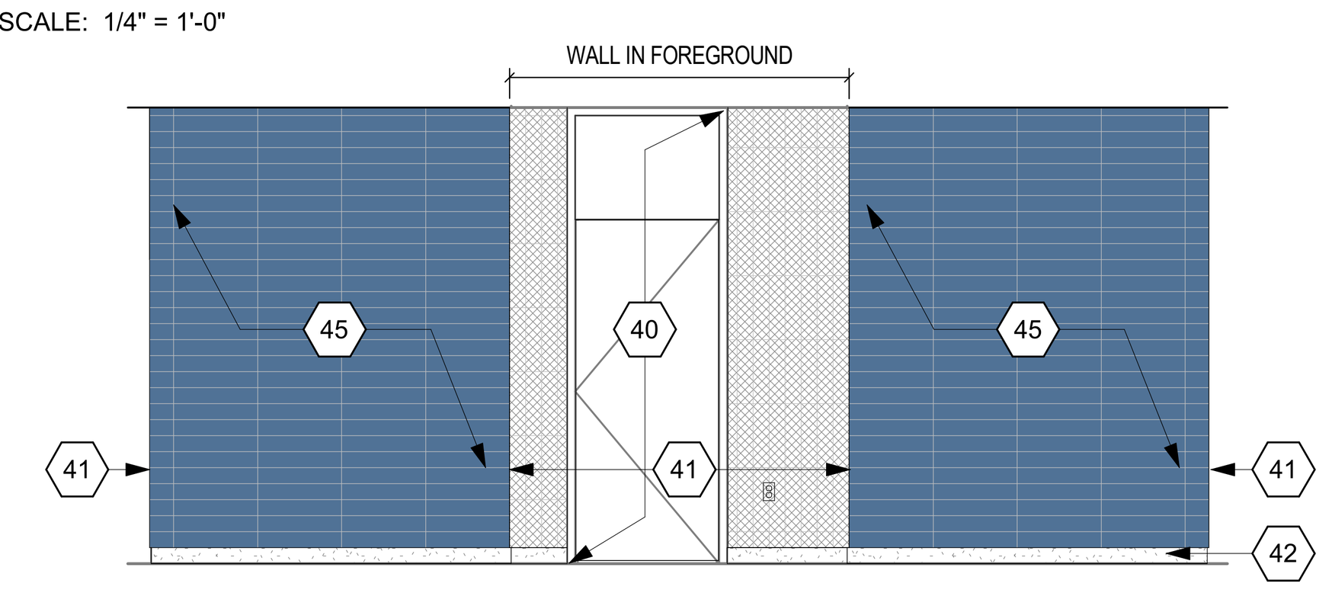
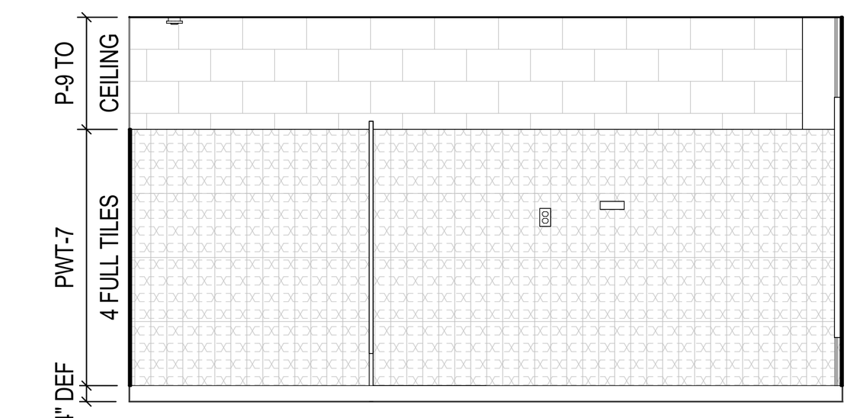


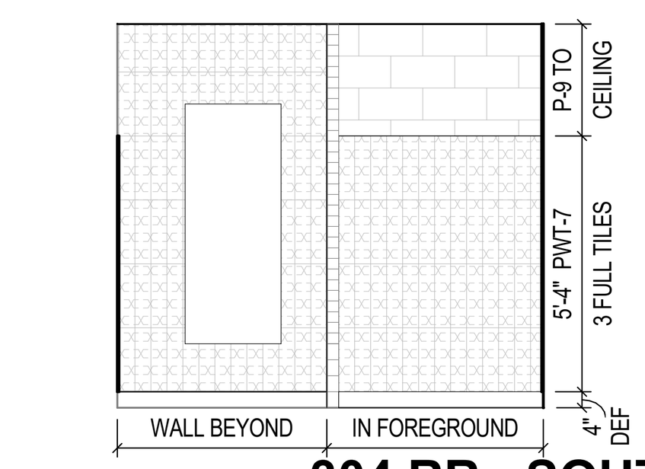
24 106 FLEX ROOM -WEST
SCALE: 1/4" = 1'-0"



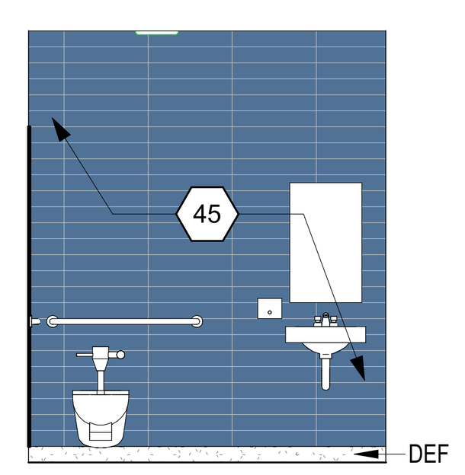
18 TYP GROUP RR - ENTRY
SCALE: 1/4" = 1'-0"



7 304 RR - EAST
SCALE: 1/4" = 1'-0"



8 304 RR - SOUTH
SCALE: 1/4" = 1'-0"



19 TYP INDIV RR - WET WALL
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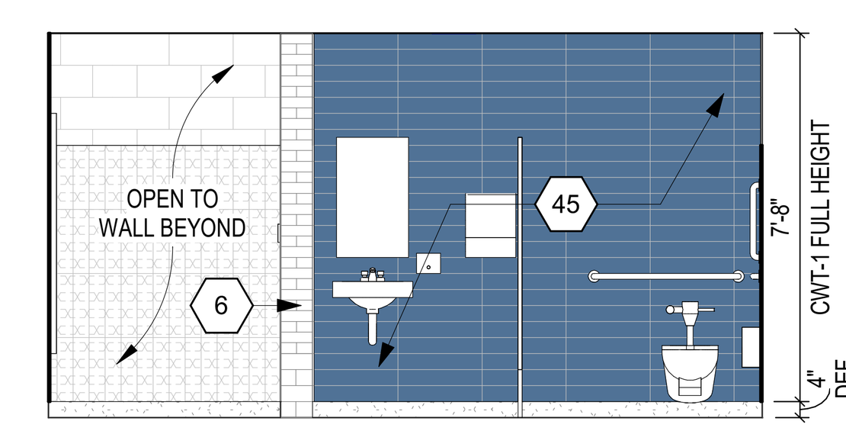
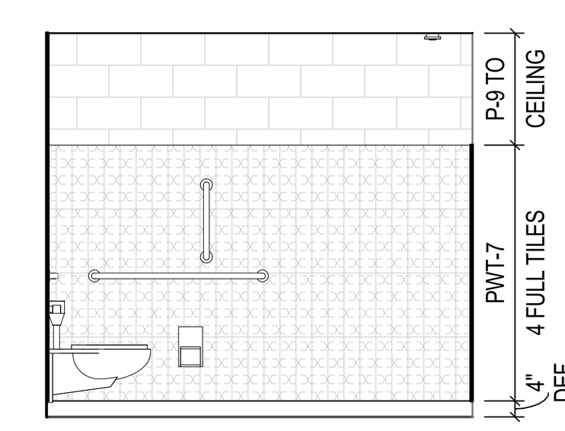
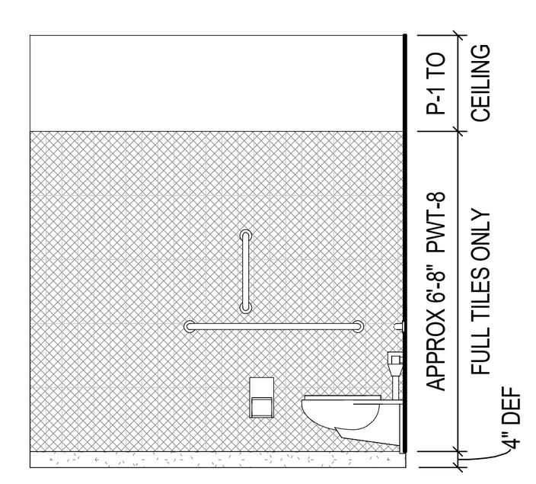


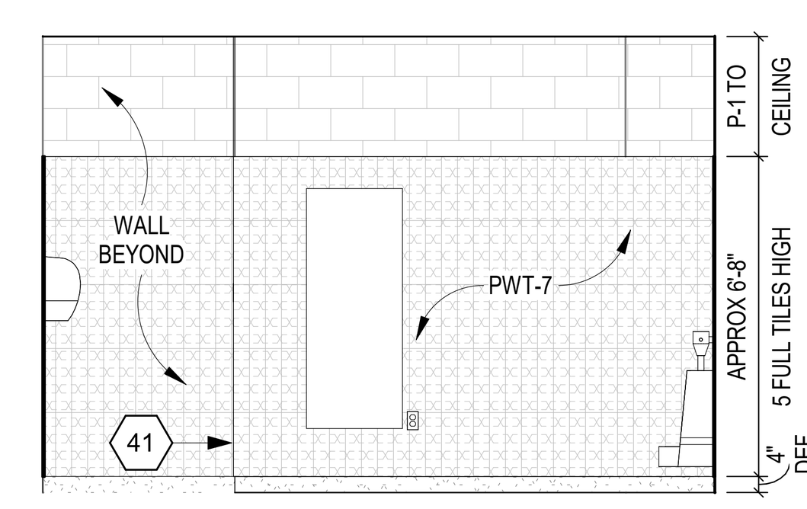
9 304 RR - WEST
SCALE: 1/4" = 1'-0"



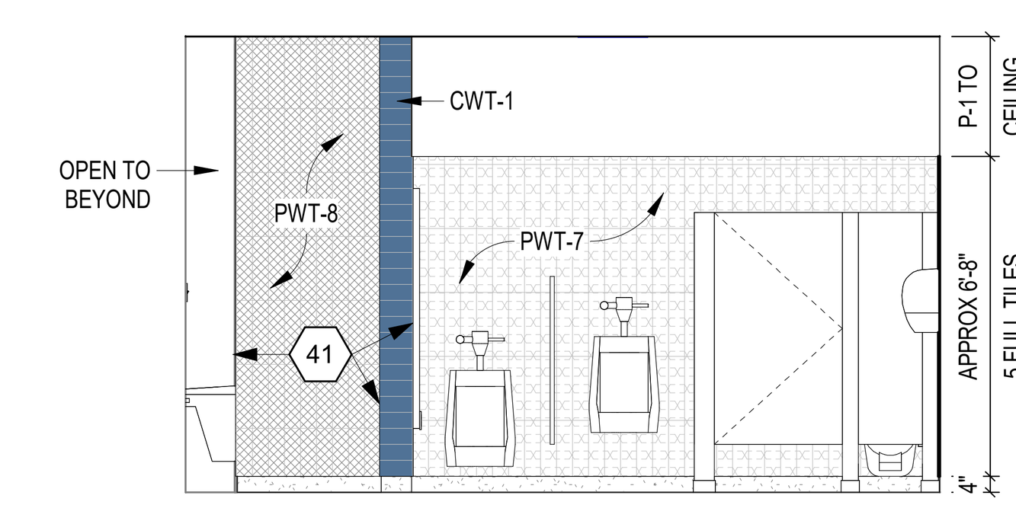
10 304 RR - NORTH
SCALE: 1/4" = 1'-0"



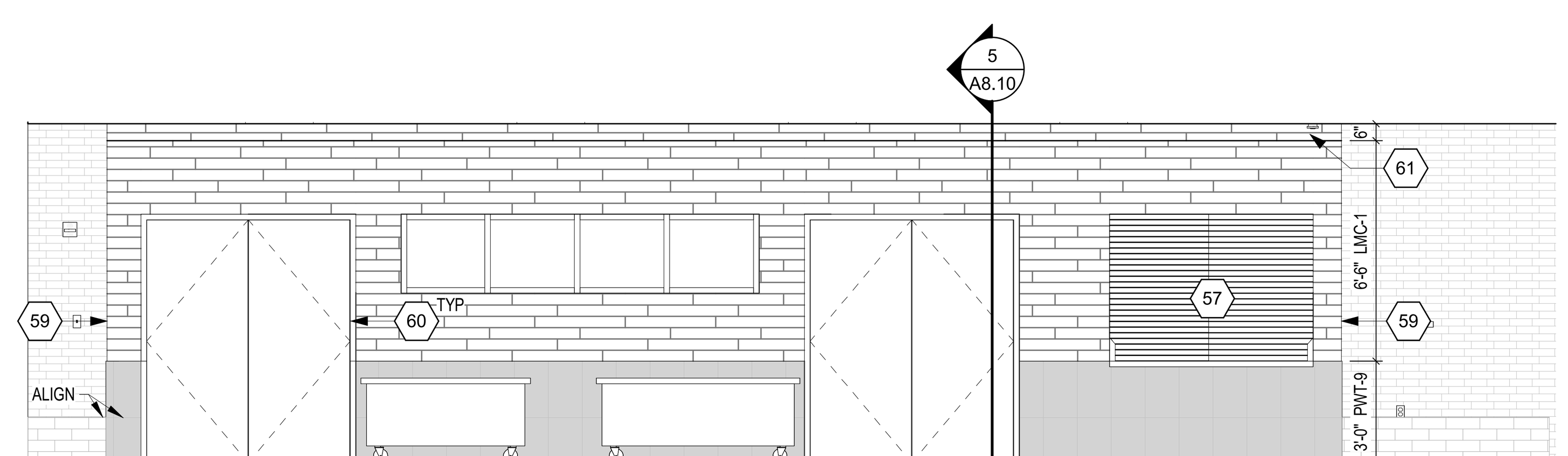
20 TYP INDIV RR - TILED WALLS
SCALE: 1/4" = 1'-0"



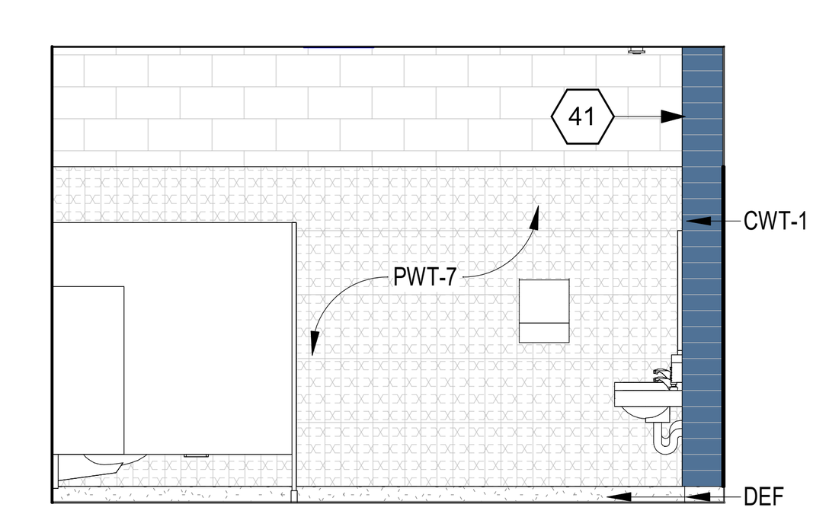
11 TYP GROUP RR - WALL A
SCALE: 1/4" = 1'-0"



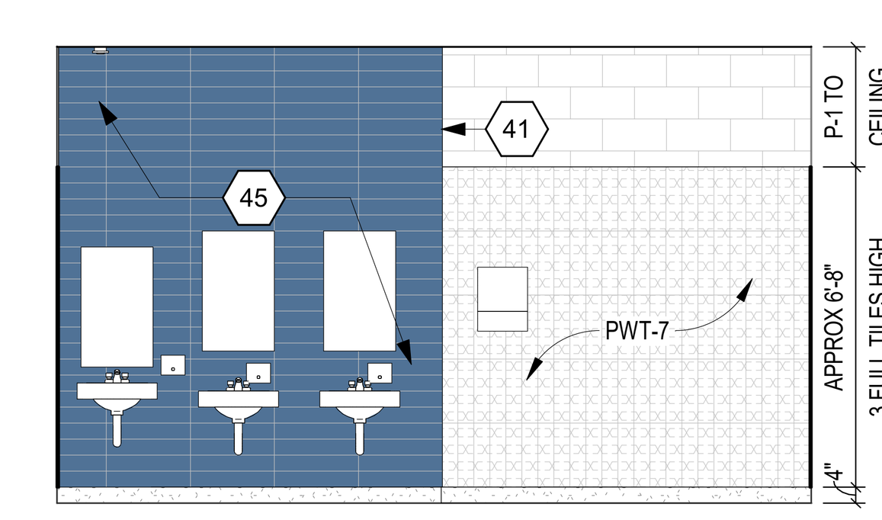
12 TYP GROUP RR - WC WALL
SCALE: 1/4" = 1'-0"



21 SERVING ENTRY
SCALE: 1/4" = 1'-0"



13 TYP GROUP RR - WALL B
SCALE: 1/4" = 1'-0"



14 TYP GROUP RR - WET WALL
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 NEW VRB-1 ALONG WEST WALL
2 EXISTING EQUIPMENT TO REMAIN
3 RECOVER EXISTING OPERABLE WALL WITH VWC-1
4 INSTALL 4'H WALL PROTECTION (WP-1) ON EXISTING OPERABLE WALL. INCLUDE J-TRIM ON ALL SIDES, MITER CORNERS
5 INSTALL NEW ACOUSTICAL WALL TILE, AWT-1
6 HATCH INDICATES BRICK, DO NOT PAINT
7 EXISTING WOOD TRUSSES TO REMAIN, PROTECT DURING CONSTRUCTION
8 INSTALL RSF-2 ON TREADS AND RISERS WITH RSA-1 NOSING ON STEPS AND EDGE OF STAGE; REFER TO DETAIL 6/A8.10
9 REPAINT EXISTING WOOD TRIM AND GWB CAP, P-13
10 NEW STAGE CURTAIN (SC-1)
11 PL-3 CASEWORK WITH SSM-3 COUNTERTOP
12 EXISTING WOOD CEILING TO REMAIN, PROTECT DURING CONSTRUCTION
13 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF EXISTING PLASTIC LAMINATE PANELING
14 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-2
15 PAINT NEW TRIM, P-13
16 INSTALL ARCHITECTURAL FILM, AFF-1, ON ALL FACES OF NEW COLUMN AS INDICATED BY HATCHING
17 MECHANICAL GRILLE, REFER TO MECH DRAWINGS
18 MECHANICAL GRILLE, REFER TO MECH DRAWINGS. ALIGN FACE OF GRILLE WITH FRONT OF SFWS ASSEMBLY
19 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-1
20 TACKABLE WALL SURFACE, TWS-1; REFER TO A7 PLANS FOR LENGTH
21 STAINED WOOD NOOK AND DISPLAY ASSEMBLY, REFER TO SECTION FOR ADDITIONAL DETAILS
22 INSTALL PWT-6 ON WALL(S), TILE EXTENTS AS SHOWN WITH HATCHING. TILE TO BE INSTALLED PRIOR TO COLUMN TRIM INSTALLATION (1)
23 PROVIDE LOCK ON THIS CABINET, TECHNOLOGY HOUSED INSIDE
24 EXISTING DISPLAY CASE TO REMAIN, REPLACE FINISHES AS NOTED IN A8 SERIES
25 INSTALL CWT ON NEW COLUMN/ WALL WITH SCHLUTER QUADEC OUTSIDE CORNERS AND JOLLY TRIM AT FLOOR, REFER TO DETAILS ON A8.10, REFER TO TEXT NOTE FOR TILE COLOR
26 PAINT EXISTING BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 17/A8.05 FOR DETAIL
27 APPLY IFS-1 FINISH ON ALL SIDES OF EXISTING BULKHEAD WITH EXISTING EIFS FINISH
28 APPLY IFS-1 FINISH ON ALL SIDES OF NEW BULKHEAD
29 GRAY SHADING INDICATES INSTALLATION OF FROSTED FILM, DFO-1
30 SOLID SURFACE KNEE WALL CAP, SSM-2, REFER TO DETAIL 2/A5.04
31 PAINT ALL SIDES OF BULKHEAD INDICATED COLOR
32 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO 15/A8.09 & 1-7/A9.04
33 INFILL BRICK (BRK-1) WHERE FIRE ANNUNCIATOR PANEL WAS REMOVED
34 INFILL BRICK (BRK-1) WITH UTILITY BRICK BASE (BRK-2) WHERE SIDE FOLDING GATE WAS REMOVED; TOOTH IN NEW BRICK AS REQUIRED TO ELIMINATE CUT BRICK
35 9"H DIMENSIONAL LETTERS
36 PAINT CORRIDOR SIDE OF EXISTING WOOD DOOR/TRANSOM AND HOLLOW METAL FRAME PAINT COLOR INDICATED IN TEXT NOTE
37 PAINT EXISTING BULKHEAD AND INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
38 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
39 GROUP RESTROOM ENTRY, REFER TO 18/A8.09 FOR DETAILS
40 PAINT CORRIDOR SIDE OF EXISTING WOOD DOOR/TRANSOM AND HOLLOW METAL FRAME PAINT COLOR INDICATED IN TEXT NOTE, P-10
41 INSTALL SCHLUTER QUADEC OUTSIDE CORNER TRIM, REFER TO DETAIL ON A8.10
42 DEF-1 BASE WITH SCHLUTER JOLLY TRIM AT TILE TERMINATION, REFER TO DETAIL ON A8.10
43 INSTALL WVWC-1 WRAP ON CEILING FEATURE. REFER TO TEXT NOTE FOR BULKHEAD ACCENT COLOR & 16/A8.09 FOR DETAIL
44 PAINT ALL SIDES OF EXISTING GWB FORM, P-14
45 CWT-1 INSTALLED IN HORIZONTAL STRAIGHT LAY PATTERN
46 PROJECTION SCREEN, REFER TO A7 PLANS FOR DETAILS
47 PL-3 SHELVING WITH PL-3 COUNTERTOP
48 PL-3 SHELVING
49 PL-3 FILLER BETWEEN TILED SURROUND AND SHELVING
50 MONITOR, REFER TO TECHNOLOGY DRAWINGS
51 INSTALL WVWC-1 WRAP ON BULKHEAD
52 RECOVER EXISTING OPERABLE WALL WITH AWC-1 ABOVE WP-1 WAINSCOT
53 OPEN SEATING NOOK WITH UPHOLSTERED BACK AND SEAT
54 INSTALL PWT-10 ON NEW COLUMN WITH SCHLUTER QUADEC OUTSIDE CORNERS, REFER TO DETAILS ON A8.10 AND 1/A1.02
55 PAINT ONLY CORRIDOR SIDE OF BULKHEAD P-11, OTHER SIDE TO BE PAINTED P-1
57 OVERHEAD COILING DOOR/ OVERHEAD COUNTER DOOR, REFER TO A1 SERIES DRAWINGS
58 INSTALL NEW ACOUSTICAL WALL TILE AS NOTED, OVER EXTENTS OF EXISTING ACOUSTICAL BRICK, SHOWN WITH DASHED LINES
59 REFER TO DETAIL 3/A8.10 FOR LMC-1 END WALL DETAIL
60 REFER TO DETAIL 5/A5.08 FOR LMC-1 RETURN AT DOOR FRAMES (1)
61 REFER TO DETAIL 2/A8.10 FOR LMC-1 CEILING TO WALL DETAIL
62 FIRST MAKER SPACE VEX IQ TABLE, PROVIDED AND INSTALLED BY OWNER
63 PAINT ALL SIDES OF EXISTING GWB STRUCTURE, P-1
64 INSTALL NEW STRETCH FABRIC WALL SYSTEM, SFWS-3

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. AR10300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS
DRAWN BY: AML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

INTERIOR ELEVATIONS

A8.09

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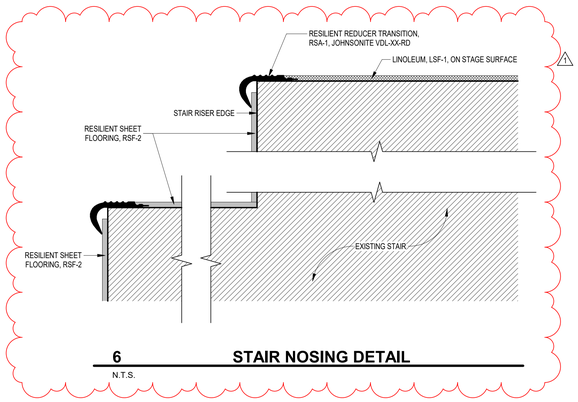
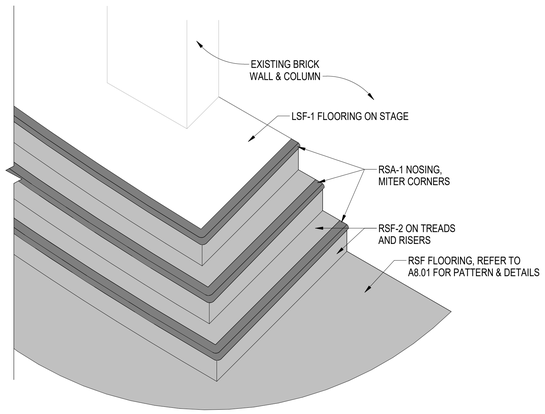


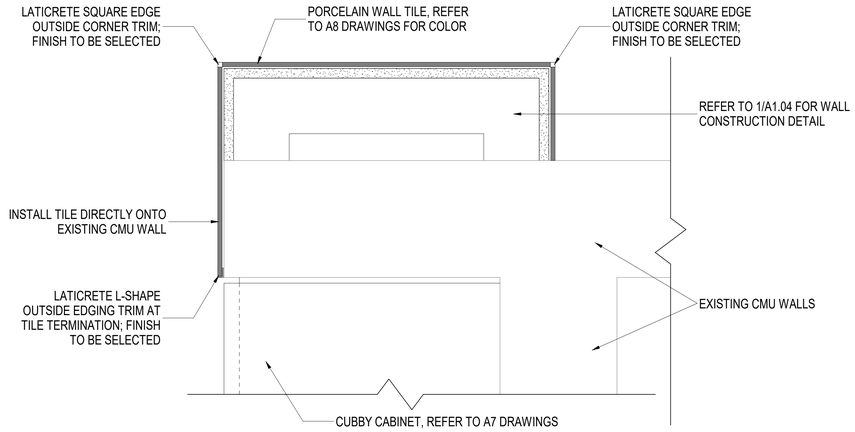
6 STAIR NOSING DETAIL

N.T.S.



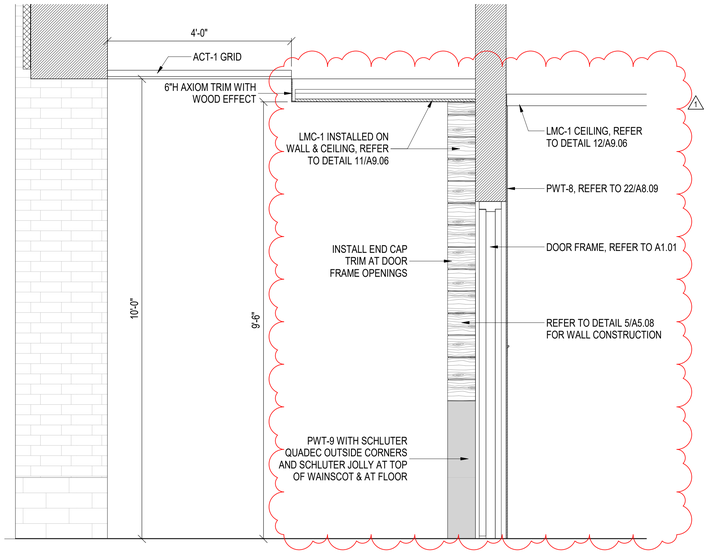
4 STAGE STAIR DETAIL

SCALE: 3/4" = 1'-0"



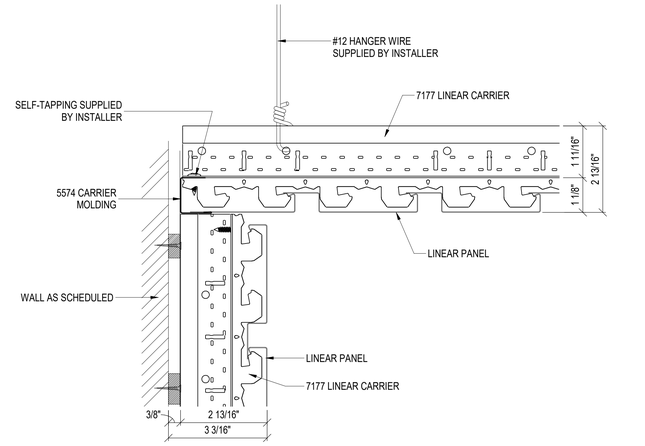
1 NEIGHBORHOOD ENTRY TILE DETAIL

SCALE: 3" = 1'-0"



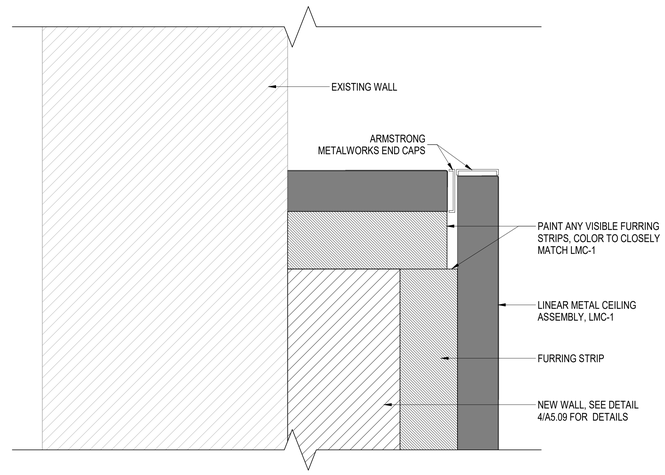
5 CAFETERIA SERVING WALL DETAIL

SCALE: 3/4" = 1'-0"



2 LMC-1 CEILING TO WALL DETAIL

SCALE: 6" = 1'-0"

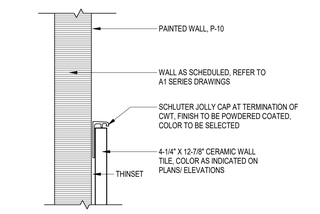


3 LMC-1 CORNER DETAIL

SCALE: 6" = 1'-0"

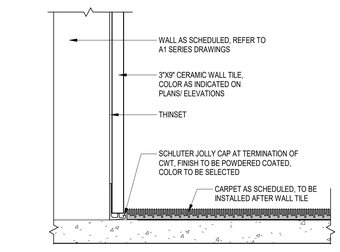
CERAMIC WALL TILE DETAIL - CORNER

- NOT TO SCALE
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION
- REFER TO A8 SERIES DRAWINGS FOR COLOR SELECTION(S) AND LOCATIONS



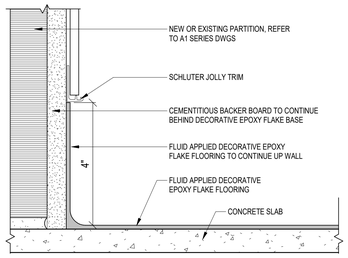
CERAMIC TILE DETAIL - TERMINATION AT PARTIAL HEIGHT TILED WALL - RESTROOMS

- NOT TO SCALE
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION
- REFER TO A8 SERIES DRAWINGS FOR COLOR SELECTION(S) AND LOCATIONS



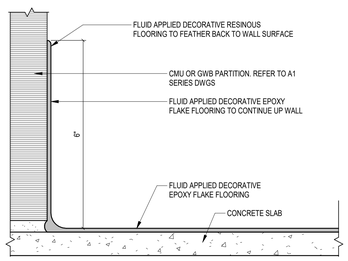
CERAMIC TILE DETAIL - TERMINATION AT FLOOR - COLUMNS & NEIGHBORHOOD ENTRIES

- NOT TO SCALE
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION
- REFER TO A8 SERIES DRAWINGS FOR COLOR SELECTION(S) AND LOCATIONS



DEF WALL BASE DETAIL - TILED ABOVE

- NOT TO SCALE
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



DEF WALL BASE DETAIL - PAINTED ABOVE

- NOT TO SCALE
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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ARCHITECT

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BID SET

PAUL A. MILLER REGISTERED NO. 11300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

INTERIOR DETAILS

A8.10

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

1 **FLOOR PATTERN DETAILS**

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

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. AR10300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

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REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

FLOORING DETAILS

A8.11

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LIST OF FINISHES

REFER TO A8 ARCH. DWG. SHEETS

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CART-1 (FIELD) CART-2 (ACCENT) CART-3 (DISC. CTR.)	MANNINGTON/ NEW COMPOSITION/ SUBLIME STATE MANNINGTON/ NEW COMPOSITION/ TRANCE END TARKETT / DYNAMIC EDIT / EDGE EDIT	NOTION 14172 / 24"X24" NOTION 14172 / 24"X24" WIND TURBINE 22411 / 24"X24"

- REFER TO MATERIAL & FINISH GENERAL NOTES FOR INSTALLATION METHOD INFORMATION.
- SUBMIT INSTALLATION DRAWINGS INDICATING DIRECTION & LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.

CERAMIC MOSAIC TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CMT-1	DALTILE / KEYSTONES AMERICAN OLEAN / UNGLAZED COLORBODY	GROUP 2, TO BE SELECTED / 2"X2" GROUP 2, TO BE SELECTED / 2"X2"

DECORATIVE EPOXY FLAKE FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DEF-1	REFER TO SPECIFICATIONS	TORGINOL COLORS - 20% F1820 WHITE, 20% F9957 TAUPE, 20% F9958 ALPACA WHITE, 20% F9959 ANTIQUE WHITE, 10% F9961 FUNCTIONAL GRAY, 5% F1130 DARK BLUE, 5% F9969 NAVY

ENTRANCE CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ECT-1	INTERFACE / SR899	TO BE SELECTED

LINOLEUM SHEET FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LSF-1	FORBO / MARMOLEUM / CONCRETE	METEORITE 3705

LUXURY VINYL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LVT-1 (FIELD) LVT-2 (STEAM)	MANNINGTON / AMTICO / WOODS MANNINGTON / AMTICO / STONE	ROTTERDAM OAK AR0W8440 / 7.25"X48" STRIA BASALT AROSMS43 / 18"X18"

RESILIENT SHEET FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RSF-1 (KITCHEN) RSF-2 RSF-3 RSF-4 RSF-5 RSF-6	ALTRO STRONGHOLD 30 ECORE / ECOSURFACES CLASSIC ECORE / ECOSURFACES CLASSIC ECORE / ECOSURFACES CLASSIC ECORE / ECOSURFACES CLASSIC ECORE / ECOSURFACES CLASSIC	TUNDRA-K30500 ACTION! 1213 MONDAY BLUES 2614 RAIDERS OF THE LOST ARCHITECT 1212 MRS. DOUBTFIREPLACE 1209 BLUE HIGHWAY 2620

RESILIENT STAIR NOSING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RSA-1	JOHNSONITE / VDL-XX-RD	TO BE SELECTED

VINYL COMPOSITION TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
VCT-1	TARKETT VCT II	TO BE SELECTED / 12"X12"

BASE MATERIALS

CERAMIC MOSAIC TILE BASE

BUILT-UP COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CMTB-1	DALTILE / KEYSTONES AMERICAN OLEAN / UNGLAZED COLORBODY	GROUP 2, TO BE SELECTED / 2"X2" / MB5A GROUP 2, TO BE SELECTED / 2"X2" / MT6A

DECORATIVE EPOXY FLAKE FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DEF-1	REFER TO SPECIFICATIONS	TORGINOL COLORS - 20% F1820 WHITE, 20% F9957 TAUPE, 20% F9958 ALPACA WHITE, 20% F9959 ANTIQUE WHITE, 10% F9961 FUNCTIONAL GRAY, 5% F1130 DARK BLUE, 5% F9969 NAVY

RESILIENT BASE

4" COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RB-1	JOHNSONITE	BURNT UMBER 63

RESILIENT SHEET FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RSF-1 (KITCHEN)	ALTRO STRONGHOLD 30	TUNDRA-K30500

VENTED RUBBER BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
VRB-1	JOHNSONITE	BLACK

WALL FINISHES

ABUSE-RESISTANT ACOUSTICAL WALL TILES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AR-AWT-1	ARMSTRONG / TECTUM	PPG1209-6 BRASS MESH / 2" THICK
AR-AWT-2	ARMSTRONG / TECTUM	PPG1174-7 ROYAL INDIGO / 2" THICK
AR-AWT-3	ARMSTRONG / TECTUM	PPG13-16 BLAZE / 2" THICK
AR-AWT-4	ARMSTRONG / TECTUM	PPG1160-6 CHINESE PORCELAIN / 2" THICK
AR-AWT-5	ARMSTRONG / TECTUM	SW6453 CILANTRO / 2" THICK
AR-AWT-6	ARMSTRONG / TECTUM	PPG15-28 GREAT GRAY / 2" THICK

ACOUSTICAL WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AWT-1 (CAFE) AWT-2 (CAFE)	DESIGNTEX / BILLIARD CLOTH DESIGNTEX / ROCKET	INDIGO 3549-402 CADET 2693-405

CERAMIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CWT-1 (RR)	DNA TILES / PLINTO	BLUE GLOSS / 4.2" X 21.3"

PAINT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
P-1 (FIELD)	PPG PAINTS	PPG0999-1 IN THE CLOUD
P-2 (DOOR FRAMES)	SHERWIN WILLIAMS	SW7069 IRON ORE
P-3 (CEILINGS)	SHERWIN WILLIAMS	SW7757 HIGH REFLECTIVE WHITE
P-4 (1ST ACCENT)	PPG PAINTS	PPG1209-6 BRASS MESH
P-5 (2ND ACCENT)	PPG PAINTS	PPG1174-7 ROYAL INDIGO
P-6 (3RD ACCENT)	PPG PAINTS	PPG13-16 BLAZE
P-7 (4TH ACCENT)	PPG PAINTS	PPG1160-6 CHINESE PORCELAIN
P-8 (5TH ACCENT)	SHERWIN WILLIAMS	SW6453 CILANTRO
P-9 (DC/GYM/CAFE)	PPG PAINTS	PPG15-28 GREAT GRAY
P-10 (PWT-8 MATCH)	PPG PAINTS	PPG1000-3 FIELDSTONE
P-11 (BRICK MATCH)	SHERWIN WILLIAMS	SW6060 MOROCCAN BROWN
P-12 (GREEN SCREEN)	BENJAMIN MOORE	2032-20 TRAFFIC LIGHT GREEN / FLAT
P-13 (WOOD TRIM)	PPG PAINTS	1022-4 ROCK SLIDE
P-14 (DC/CAFE)	PPG PAINTS	PPG1169-7 ROYAL HYACINTH
P-15 (ACCENT)	PPG PAINTS	PPG1024-3 CRUSHED SILK
P-16 (ACCENT)	SHERWIN WILLIAMS	SW6243 DISTANCE

PORCELAIN WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PWT-1 (1ST)	DALTILE / NATURAL HUES	DIJON NH73 / 4"X8"
PWT-2 (2ND)	DALTILE / NATURAL HUES	GRAPE NH54 / 4"X8"
PWT-3 (3RD)	DALTILE / NATURAL HUES	VALENTINE NH13 / 4"X8"
PWT-4 (4TH)	DALTILE / NATURAL HUES	ATLANTIS NH43 / 4"X8"
PWT-5 (5TH)	DALTILE / NATURAL HUES	SPRING GREEN NH29 / 4"X8"
PWT-6 (D.C.)	DALTILE / NATURAL HUES	BLUEBERRY NH46 / 4"X8"
PWT-7 (RR)	PORTOBELLO AMERICA / KREA 2.0	NUAGE STATION - MATTE / 4"X16"
PWT-8 (RR)	PORTOBELLO AMERICA / KREA 2.0	STORM STATION - MATTE / 4"X16"
PWT-9 (CAFE)	FLORIDA TILE / TEMPO	DARK GRAY MATTE / 12"X24"
PWT-10	DALTILE / NATURAL HUES	MUSHROOM NH16 / 4"X8"

STRETCH FABRIC WALL SYSTEM

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SFWS-1 (D.C./STEAM)	DESIGNTEX / BRUSHED FLANNEL	TO BE SELECTED
SFWS-2 (D.C./STEAM)	MAHARAM / METAPHOR	PARACHUTE 466553-010
SFWS-3 (CAFE)	DESIGNTEX / ROCKET	CADET 2693-405

VINYL WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
VWC-1 (OP WALL) VWC-2 (WAINSCOT)	MOMENTUM / ALTO KOROSEAL / FLEX DECORATIVE WALL PROTECTION / MONROE TYPE III	TIRAMISU LLN-AT-04 TO BE SELECTED

- REFER TO A7S.01 FOR CORNER GUARD AND J-TRIM INFORMATION

WOOD VENEER WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WVWC-1	MOMENTUM / SOURCE ONE / WOODS	BROWN BIRCH SWS-62

WOOD WALL

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
WDW-1	WINDFALL / HARDWOOD CLADDING	RUSSET

MISCELLANEOUS FINISHES

ACOUSTICAL WALL CARPET

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AWC-1	SURFACE MATERIALS / CROSSPOINT / TIARA II	PELICAN 00103

ARCHITECTURAL FINISH FILM

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AFF-1 (DISC CTR)	DESIGNTEX - 3M / DI-NOC	LEATHER / LE-1109

BRICK

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
BRK-1 BRK-2	ENDICOTT CLAY PRODUCTS ENDICOTT CLAY PRODUCTS	ROSE BLEND VELOUR MODULAR COPPER CANYON VELOUR UTILITY

DECORATIVE FILM OVERLAY

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DFO-1	3M FASARA	TO BE SELECTED

GROUT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
GT-1 (CWT-1,PWT-8)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-2 (PWT-1)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-3 (PWT-2)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-4 (PWT-3)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-5 (PWT-4)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-6 (PWT-5)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-7 (PWT-6)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-8 (PWT-7)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-9 (PWT-9)	REFER TO SPECIFICATIONS	TO BE SELECTED
GT-10 (PWT-10)	REFER TO SPECIFICATIONS	TO BE SELECTED

INTERIOR WOOD DOORS/ INTERIOR WOOD TRIM

- EXISTING WOOD DOORS,TRANSOMS, AND TRIM TO REMAIN. NEW WOOD DOORS, AND TRANSOMS TO MATCH EXISTING.
- ROTARY CUT RED OAK TO BE WOOD SPECIES FOR NEW DOORS AND TRANSOMS. STAIN TO MATCH EXISTING DOORS.
- PROVIDE STAIN SAMPLES FOR VERIFICATION.
- DISCOVERY CENTER NOOK ASSEMBLY TO BE STAINED RED OAK, COLOR TO MATCH MINWAX SMOKEWOOD MW-407

RESILIENT MOLDING ACCESSORIES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RMA-1	JOHNSONITE	TO BE SELECTED

SAFETY PADDING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SP-1	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	

CEILING FINISHES

ACOUSTICAL CEILING TILES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ACT-1 (FIELD)	ARMSTRONG / SCHOOL ZONE FINE FISSURED HIGH NRC #1713	WHITE / 2'X2'
ACT-2 (RESTROOMS)	ARMSTRONG / TUNDRA #301	WHITE / 2'X2'
ACT-3 (STORAGE)	ARMSTRONG / FINE FISSURED #1810	WHITE / 2'X2'
ACT-4 (KITCHEN)	ARMSTRONG / CLEAN ROOM VL #868	WHITE / 2'X2'
ACT-5 (OFFICES)	ARMSTRONG / OPTIMA #3354	WHITE / 2'X2'

INTERIOR FINISH SYSTEM

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
IFS-1	REFER TO SPECIFICATIONS	TO BE SELECTED (MATCH P-15)
IFS-2	REFER TO SPECIFICATIONS	TO BE SELECTED (WHITE)

LINEAR METAL CEILING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LMC-1	ARMSTRONG / METALWORKS LINEAR CLASSICS	EFFECTS OAK / 4"X96"

MATERIAL & FINISH GENERAL NOTES

GENERAL
- A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (A8 SERIES) FOR MATERIALS, PATTERNS AND COLORS.
- B. REFER TO A7S.01 LIST OF FINISHES FOR ADDITIONAL FINISHES NOT NOTED ON THIS SHEET.

FLOORING
- A. CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS.
- B. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK.
- C. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.
- D. EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.
- E. COORDINATE CONTROL JOINTS IN CONCRETE SLAB WITH STRUCTURAL DRAWINGS AND FINISH FLOORING INSTALLER.
- F. REFER TO FLOOR PLANS, RESTROOM ENLARGED PLANS, PLUMBING DRAWINGS, ETC. FOR FLOOR DRAIN LOCATIONS.
- G. AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM IN MORTAR BED. PROVIDE SCHLUTER DILEX-EDP OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.

EXISTING MATERIALS (X___)
- A. (XBRK) INDICATES EXISTING BRICK TO REMAIN. DO NOT PAINT.
- B. (XWAF) INDICATES EXISTING WOOD ATHLETIC FLOOR TO REMAIN. DO NOT PAINT.
- C. (XVRB) INDICATES EXISTING VENTED RESILIENT BASE TO REMAIN.
- D. (XGWB) INDICATES EXISTING GYPSUM WALLBOARD CEILING TO REMAIN. REPAINT AS SCHEDULED.
- E. (XWD) INDICATES EXISTING WOOD CEILING TO REMAIN. DO NOT PAINT.

LUXURY VINYL TILE (LVT)
- A. ALL LVT PATTERNS BASED ON PLANK SIZE INCREMENTS PER MANUFACTURER.
- B. ALL LVT TO HAVE SQUARE EDGE, NOT BEVEL.
- C. LVT-1 INSTALLATION METHOD TO BE 1/3 OVERLAP.
- D. LVT-2 INSTALLATION METHOD TO BE ASHLAR.

VINYL COMPOSITION TILE (VCT)
- A. ALL VCT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

CARPET TILE (CART)
- A. CART-1& 3 TO BE LAID IN ASHLAR INSTALLATION METHOD.
- B. CART-2 TO BE LAID IN BOTH BRICK AND MONOLITHIC INSTALLATION METHODS, REFER TO A8.11 FOR FLOORING DETAIL.
- C. PRIOR TO INSTALLATION, CONTRACTOR TO SUBMIT INSTALLATION DRAWINGS INDICATING DIRECTION/LAYOUT OF CARPET TILE TO ENSURE THAT DESIGN INTENT HAS BEEN IMPLEMENTED.

WALL TILE
- A. SHOWER ENCLOSURE LOCATED IN ROOM 301C IS TO HAVE FLOOR TO CEILING CERAMIC WALL TILE INSTALLED ON ALL THREE WALLS AS INDICATED.
- B. CERAMIC WALL TILE TO BE INSTALLED IN VERTICAL STRAIGHT LAY UNLESS NOTED OTHERWISE.
- C. CERAMIC WALL TILE ACCENT WALLS IN SINGLE RESTROOMS TO BE INSTALLED IN BASKETWEAVE PATTERN AS NOTED.
- D. PORCELAIN WALL TILE TO BE INSTALLED IN VERTICAL STRAIGHT LAY.

WALL BASE
- A. RUBBER BASE (RB-1) TO BE INSTALLED AT ALL LVT, VCT, CART, AND SVF LOCATIONS UNLESS OTHERWISE INDICATED. ALL RB BASE TO BE COVED.
- B. PROVIDE PREFORMED BASE TO MATCH 1"RADIUS AT ALL LOCATIONS WHERE BASE COVERS MASONRY BULLNOSE. REFER TO FINISH SCHEDULE FOR BASE MATERIAL TYPE. TYPICAL AT ALL LOCATIONS. AT RB LOCATIONS PROVIDE PREFORMED OUTSIDE CORNERS, AND USE MANUFACTURER'S RECOMMENDED ADHESIVE (CONTACT CEMENT) FOR PROPER ADHESION WITH NO GAPS.

PAINT & STAIN
- A. PAINT ALL WALLS UNLESS OTHERWISE INDICATED ON FINISH PLANS.
- B. PAINT ONE MOCK-UP CLASSROOM TO RECEIVE ARCHITECT'S APPROVAL PRIOR TO ORDERING PAINT FOR THE ENTIRE BUILDING.
- C. REPAINT ALL EXISTING DOOR FRAMES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- D. REFER TO "MISCELLANEOUS MATERIALS" SECTION FOR INFORMATION ON WOOD SPECIES AND STAIN.

PAINT TYPE GENERAL NOTES

- A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
- B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR PAINTING.
- C. ALL WALLS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT FINISH.
- D. ALL GYPSUM BOARD WALLS SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.23 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED.
- E. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE INDICATED.
- F. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.
- G. IN THE FOLLOWING ROOMS PAINT CMU WITH PAINT CODE #4.223 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATING: **ALL CORRIDORS, NEIGHBORHOOD CUBBY AND COMMONS AREAS, GYMNASIUM, STEAM LAB, LARGE GROUP INSTRUCTION**
- H. IN THE FOLLOWING ROOMS PAINT GWB WITH PAINT CODE #9.212 (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATING: **ADMIN CORRIDORS**
- I. ALL EXPOSED STEEL COLUMNS SHALL BE PAINTED WITH PAINT CODE #5.223 (EPOXY SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
- J. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
- K. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.
- L. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11.
- M. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.
- N. ALL GALVANIZED STEEL TRIM SHALL BE PAINTED INTERIOR PAINT TYPE #5.322.
- O. ALL ABUSE RESISTANT ACOUSTICAL WALL PANELS (AR-AWT) SHALL BE PAINTED WITH INTERIOR PAINT CODE #11.0.
- P. ALL WOOD DOORS AND TRANSOMS THAT ARE SCHEDULED TO BE PAINTED SHALL BE PAINTED INTERIOR PAINT TYPE #6.31.
- Q. ALL WOOD PANELS THAT ARE SCHEDULED TO BE PAINTED SHALL BE PAINTED INTERIOR PAINT TYPE #6.41.
- R. ALL EXPOSED MECHANICAL INSULATION SHALL BE PAINTED INTERIOR PAINT TYPE #10.11.

PAINT COLOR GENERAL NOTES

- A. ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
- B. PAINT ALL EXPOSED STEEL ON STAIRS, RAILS, AND STRINGERS P-2.
- C. PAINT ALL GWB SOFFITS P-3 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
- D. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
- E. PAINT ALL PAINTED EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-3 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
- F. ALL INTERIOR HOLLOW METAL FRAMES AND DOOR FRAMES TO BE PAINTED P-2 UNLESS OTHERWISE NOTED.
- G. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED P-1 UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PAUL A. MILLER REGISTERED No. A 13900161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: AML

PROJECT NUMBER: 222033.00

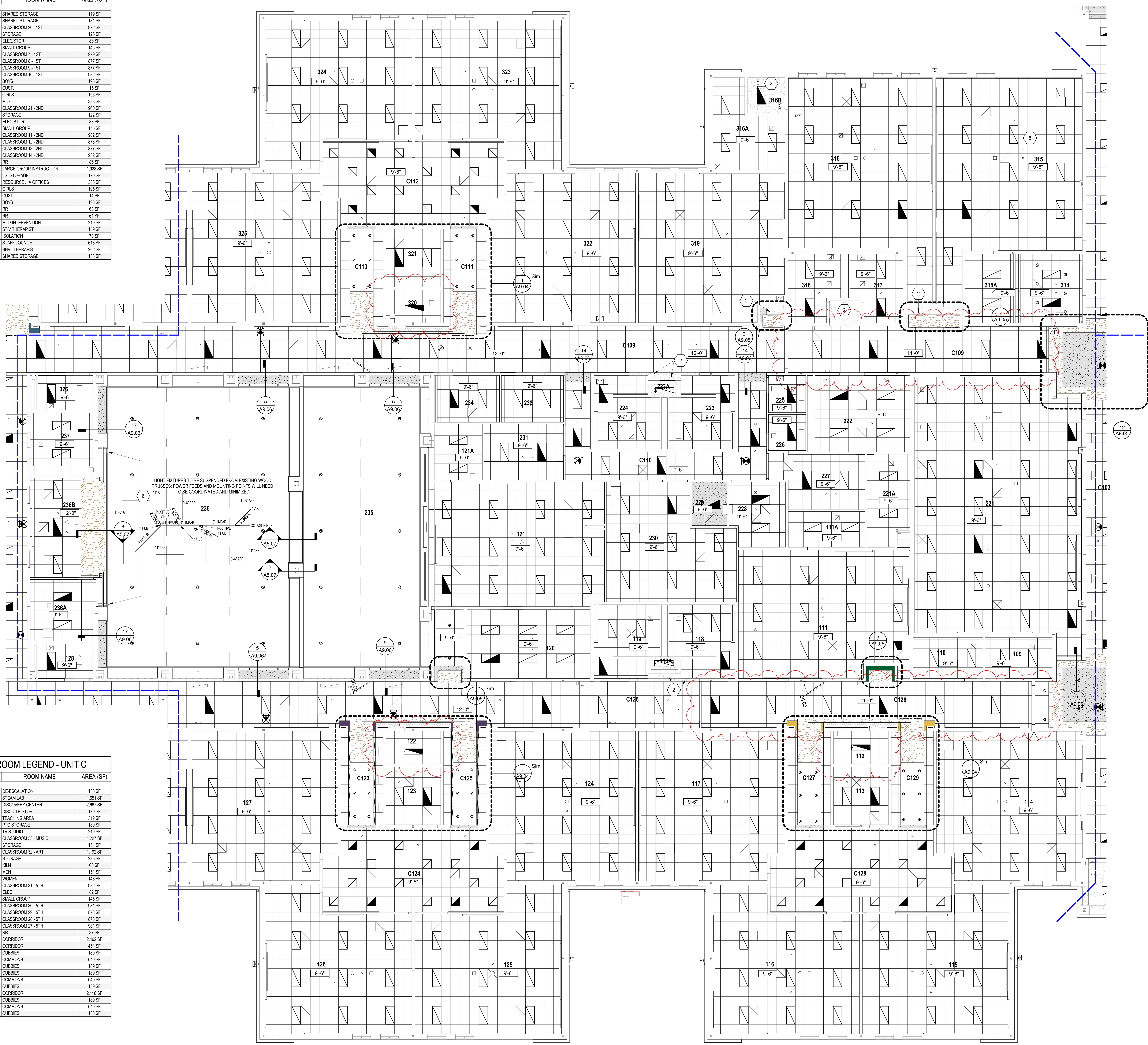
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

LIST OF FINISHES

A8S.01

ROOM LEGEND - UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1,928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLL/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF



ROOM LEGEND - UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
234	DE-ESCALATION	133 SF
235	STEAM LAB	1,651 SF
236	DISCOVERY CENTER	2,667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1,227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1,192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2,462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2,118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

UNIT C - FIRST FLOOR REFLECTED CEILING PLAN

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

12/19/2025 7:22:30 AM

REFLECTED CEILING PLAN LEGEND

A. (NOT USED)

B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 EXISTING EFS SOFFIT TO REMAIN

2 EXISTING GYPSUM BOARD CEILING/BULKHEAD TO REMAIN. PREPARE SURFACE TO RECEIVE NEW PAINT.

3 PROVIDE 2" WIDE CONTINUOUS SOFFIT VENT

4 INFILL GAP BETWEEN TAPERED EIFS AND STOREFRONT FRAMING WITH EIFS. CONTINUE EIFS INSIDE TO CLOSE OFF GAP BETWEEN TOP OF BRICK AND NEW BULKHEAD.

5 PROVIDE FULL NEW CEILING. OWNER TO REPLACE NEW TILES WITH SALVAGED AT A LATER DATE. COORDINATE TO AVOID ANY POTENTIAL CONFLICTS.

6 NEW BULKHEAD WITH SLOPED TOP TO MATCH EXISTING

REFLECTED CEILING PLAN LEGEND

10'-4" INDICATES ELEVATION HEIGHT

9'-0" INDICATES CEILING HEIGHT

A 9'-0" INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"

LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS

LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS

LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS

CLOCK - REFER TO TECHNOLOGY DRAWINGS

MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS

MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS

CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS

MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS

IC RECESSED CEILING SPEAKER

M MOTION DETECTOR

CEILING MOUNTED EXIT LIGHT

CAM CEILING MOUNTED CAMERA

W WIRELESS ACCESS POINT (WAP)

CJ CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD

S SOUND REINFORCEMENT SPEAKER

H FIRE ALARM HEAT DETECTOR

F FIRE ALARM HORN STROBE

S FIRE ALARM SPEAKER STROBE

V FIRE ALARM STROBE

P FIRE ALARM SMOKE DETECTOR

OCCUPANCY SENSOR

ACOUSTICAL CEILING TILE (ACT)

GYPSUM WALL BOARD BULKHEAD / CEILING
DO NOT ATTACH FRAMING TO METAL ROOF DECK

GYPSUM WALL BOARD BULKHEAD / CEILING
ACCENT COLOR - SEE FINISH SCHEDULE
DO NOT ATTACH FRAMING TO METAL ROOF DECK

INTERIOR FINISH SYSTEM (I.F.S.)

EXTERIOR FINISH SYSTEM (E.F.S.)
EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)

WVWC

LINEAR METAL PLANK SYSTEM

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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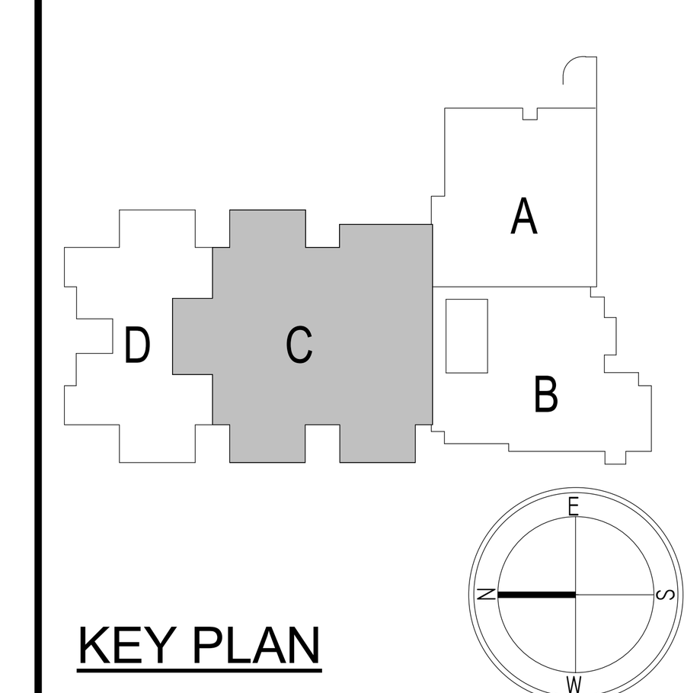
CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204



KEY PLAN

BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: KRS

DRAWN BY: BGS

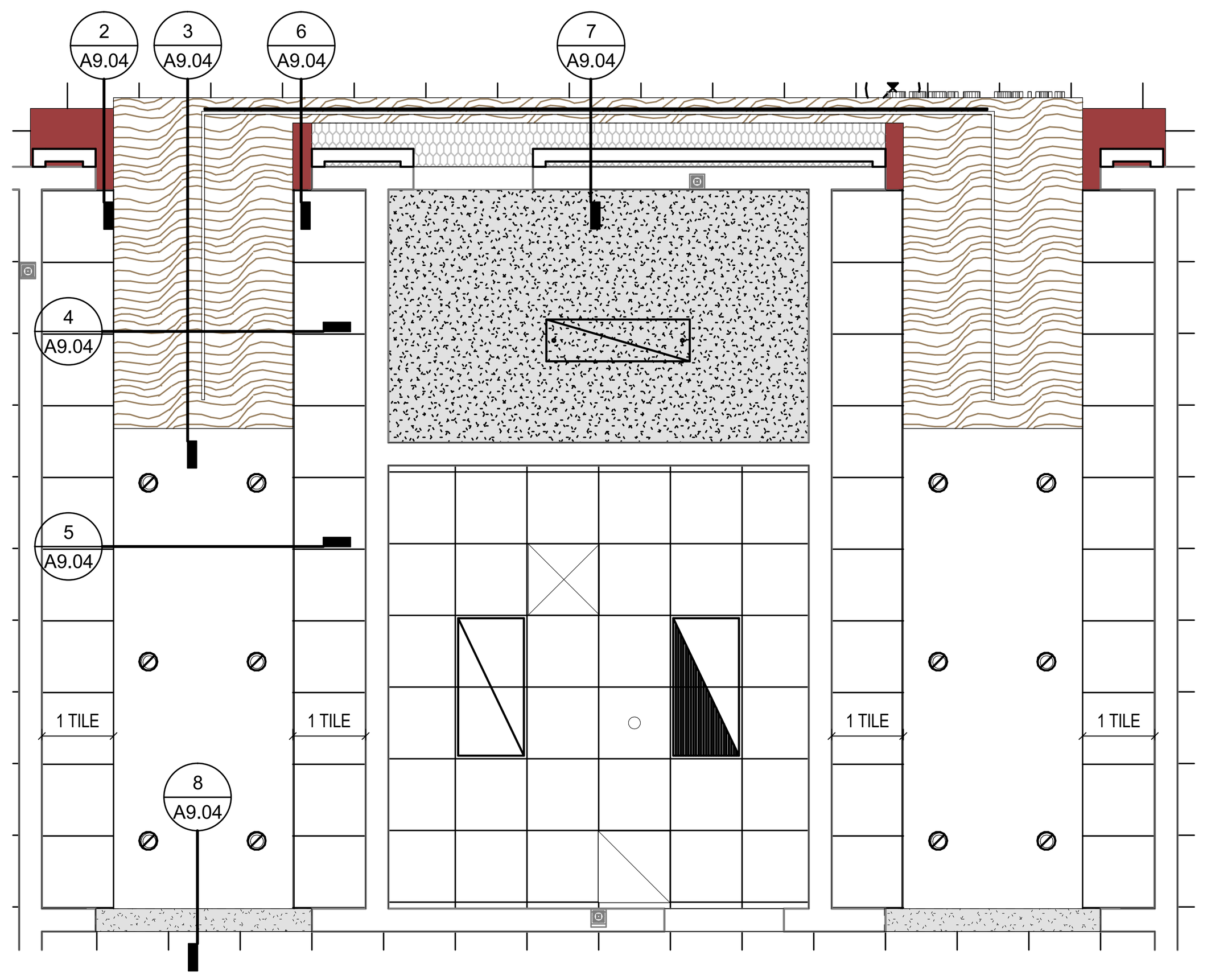
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT C - REFLECTED CEILING PLAN

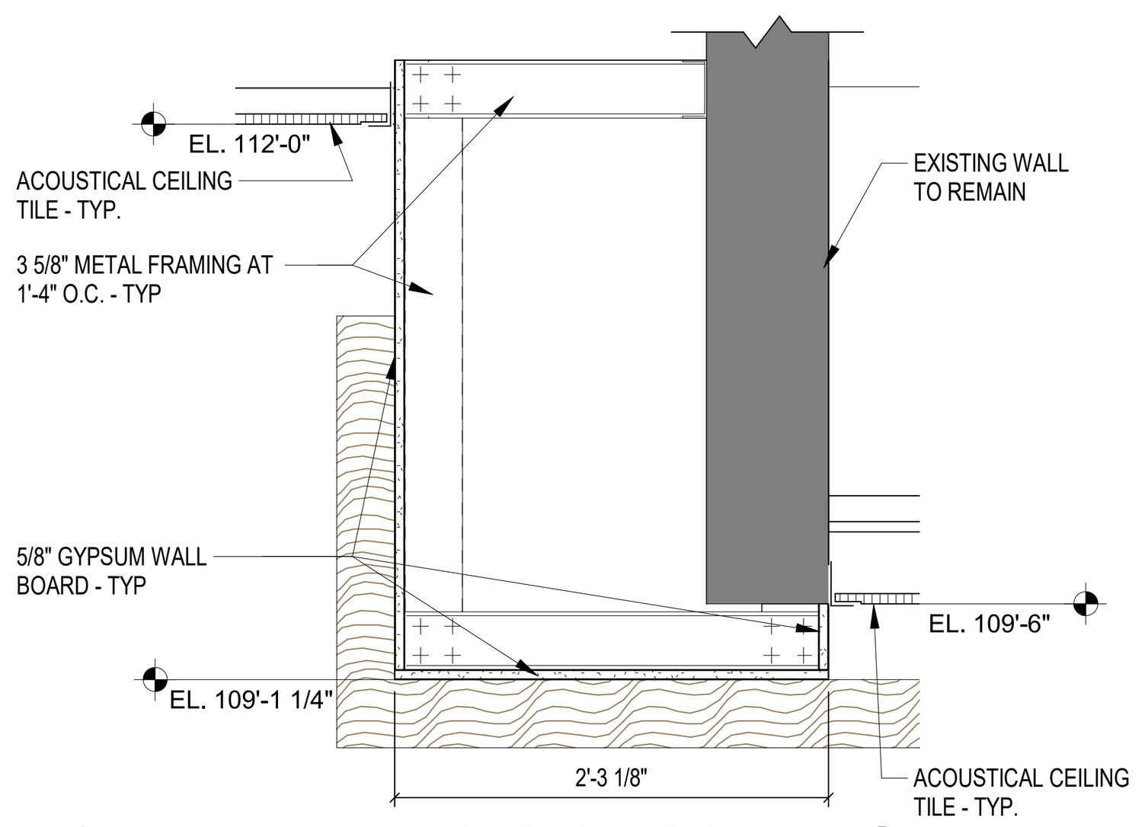
A9.03



1 NEIGHBORHOOD ENTRY CEILING PLAN

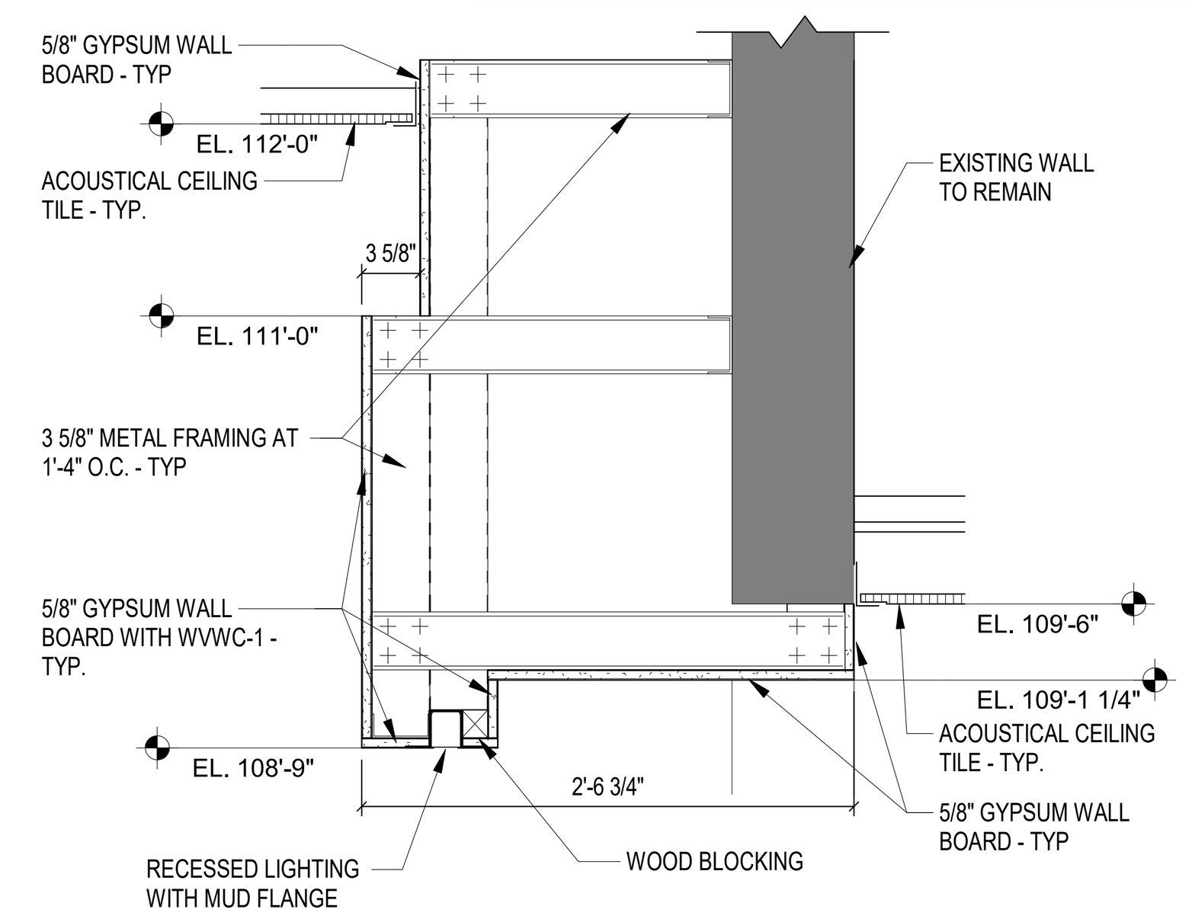
SCALE: 1/4" = 1'-0"

ROOM LEGEND - UNIT D		
ROOM NO.	ROOM NAME	AREA (SF)
129	SHARED STORAGE	119 SF
130	STOR	83 SF
131	SMALL GROUP	145 SF
132	CLASSROOM 15 - 3RD	982 SF
133	CLASSROOM 16 - 3RD	877 SF
134	CLASSROOM 17 - 3RD	877 SF
135	CLASSROOM 18 - 3RD	981 SF
136	CLASSROOM 19 - 3RD	965 SF
137	GIRLS	197 SF
137A	CUST.	15 SF
138	BOYS	206 SF
238	EARLY CHILD - CR 6	889 SF
238A	STORAGE	119 SF
238B	RESTROOM	83 SF
239	EARLY CHILD - CR 5	889 SF
239A	STORAGE	119 SF
239B	RESTROOM	83 SF
327	SHARED STORAGE	120 SF
328	STORAGE	83 SF
329	SMALL GROUP	145 SF
330	CLASSROOM 26 - 4TH	981 SF
331	CLASSROOM 25 - 4TH	878 SF
332	CLASSROOM 24 - 4TH	878 SF
333	CLASSROOM 23 - 4TH	981 SF
334	CLASSROOM 22 - 4TH	965 SF
335	GIRLS	197 SF
335A	CUST.	15 SF
336	BOYS	205 SF
C114	CUBBIES	189 SF
C115	COMMONS	648 SF
C116	CUBBIES	189 SF
C117	CORRIDOR	786 SF
C118	CORRIDOR	708 SF
C119	CORRIDOR	1,132 SF
C120	CUBBIES	189 SF
C121	COMMONS	649 SF
C122	CUBBIES	189 SF
V106	VESTIBULE	87 SF
V107	VESTIBULE	86 SF



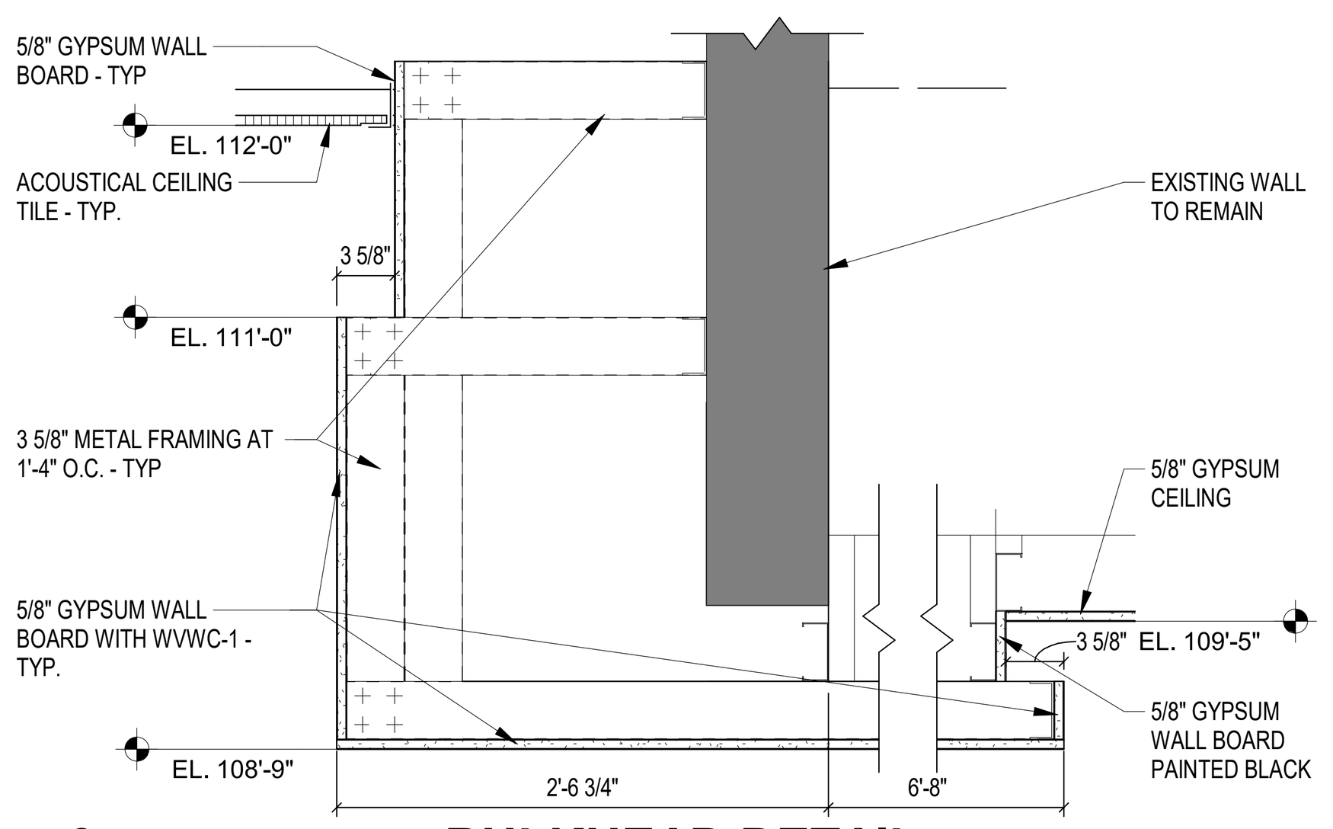
2 BULKHEAD DETAIL

SCALE: 1" = 1'-0"



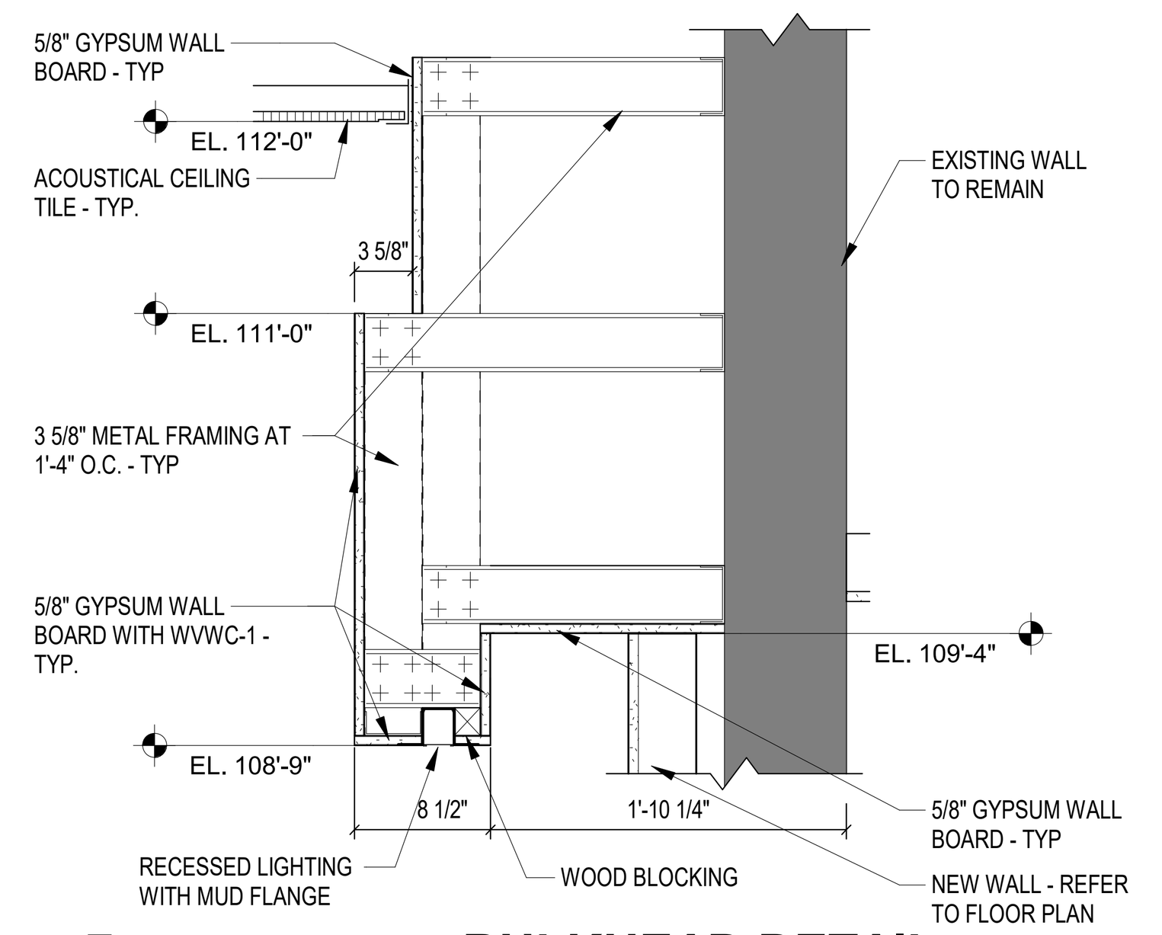
6 BULKHEAD DETAIL

SCALE: 1" = 1'-0"



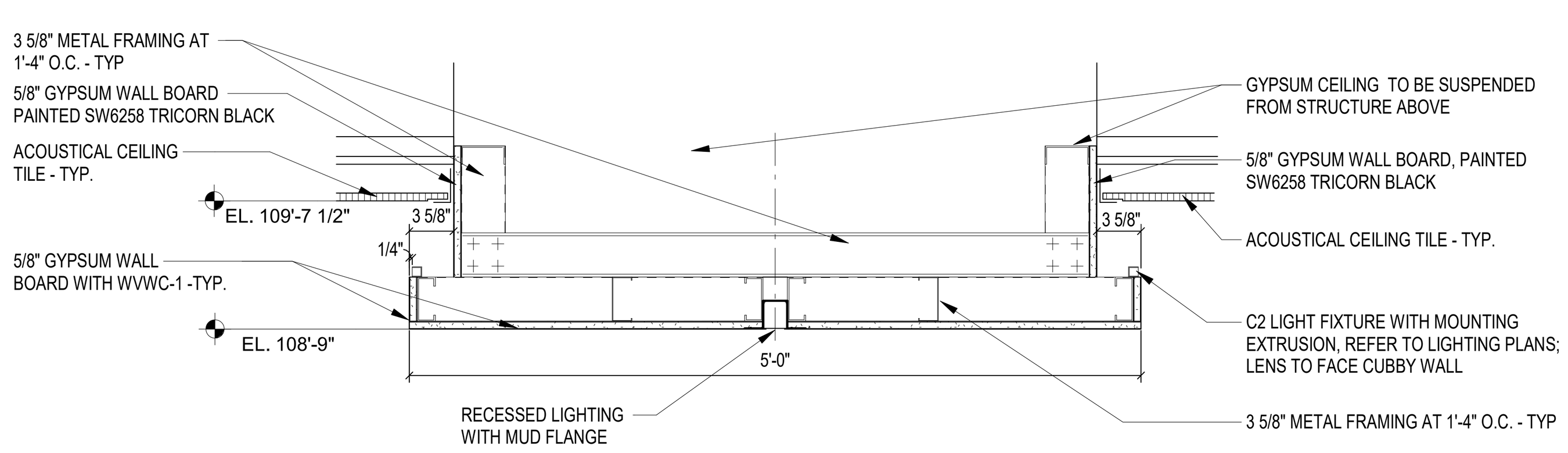
3 BULKHEAD DETAIL

SCALE: 1" = 1'-0"



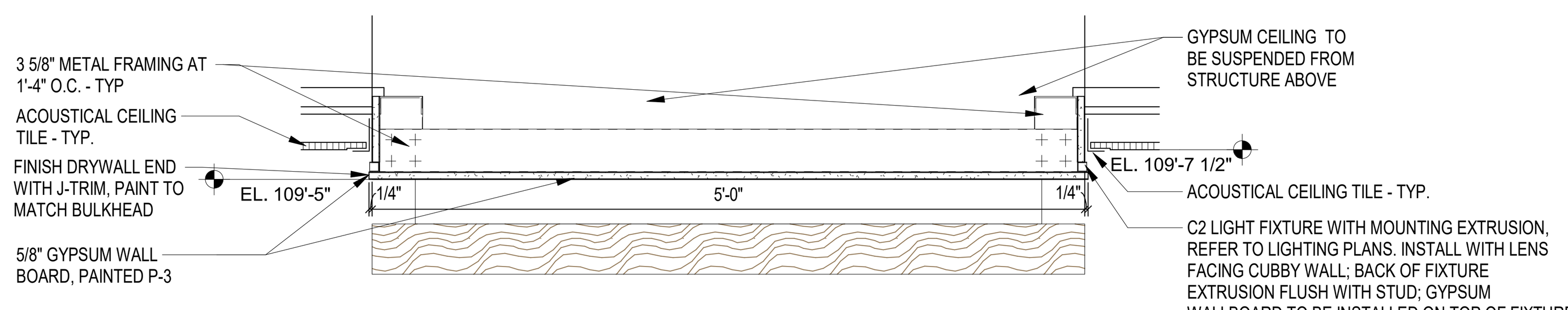
7 BULKHEAD DETAIL

SCALE: 1" = 1'-0"



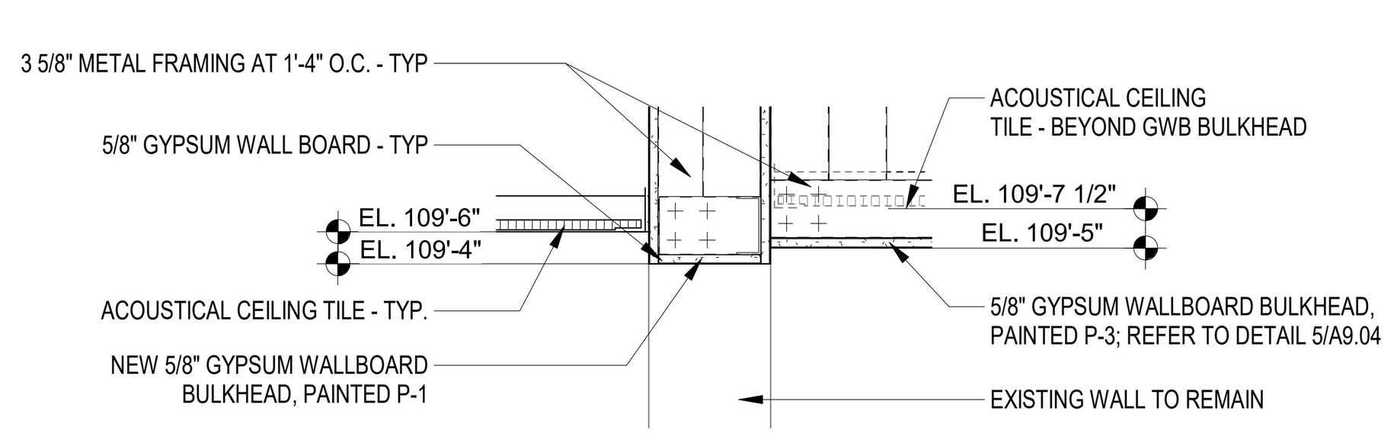
4 CEILING DETAIL

SCALE: 1" = 1'-0"



5 CEILING DETAIL

SCALE: 1" = 1'-0"



8 BULKHEAD & CEILING DETAIL

SCALE: 1" = 1'-0"

UNIT D - FIRST FLOOR REFLECTED CEILING PLAN

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

REFLECTED CEILING PLAN LEGEND

A. (NOT USED)
B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 EXISTING EFS SOFFIT TO REMAIN
2 EXISTING GYPSUM BOARD CEILING/BULKHEAD TO REMAIN. PREPARE SURFACE TO RECEIVE NEW PAINT.
3 PROVIDE 2" WIDE CONTINUOUS SOFFIT VENT
4 INFILL GAP BETWEEN TAPERED EIFS AND STOREFRONT FRAMING WITH EIFS. CONTINUE EIFS INSIDE TO CLOSE OFF GAP BETWEEN TOP OF BRICK AND NEW BULKHEAD.
5 PROVIDE FULL NEW CEILING. OWNER TO REPLACE NEW TILES WITH SALVAGED AT A LATER DATE. COORDINATE TO AVOID ANY POTENTIAL CONFLICTS.
6 NEW BULKHEAD WITH SLOPED TOP TO MATCH EXISTING

REFLECTED CEILING PLAN LEGEND

- 10'-4" — INDICATES ELEVATION HEIGHT
- 9'-0" — INDICATES CEILING HEIGHT
- A 9'-0" — INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- IC — RECESSED CEILING SPEAKER
- M — MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CAM — CEILING MOUNTED CAMERA
- W — WIRELESS ACCESS POINT (WAP)
- CJ — CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- S — SOUND REINFORCEMENT SPEAKER
- H — FIRE ALARM HEAT DETECTOR
- F — FIRE ALARM HORN STROBE
- S — FIRE ALARM SPEAKER STROBE
- V — FIRE ALARM STROBE
- P — FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING DO NOT ATTACH FRAMING TO METAL ROOF DECK
- GYPSUM WALL BOARD BULKHEAD / CEILING ACCENT COLOR - SEE FINISH SCHEDULE DO NOT ATTACH FRAMING TO METAL ROOF DECK
- INTERIOR FINISH SYSTEM (I.F.S.)
- EXTERIOR FINISH SYSTEM (E.F.S.) EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- WVWC
- LINEAR METAL PLANK SYSTEM

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

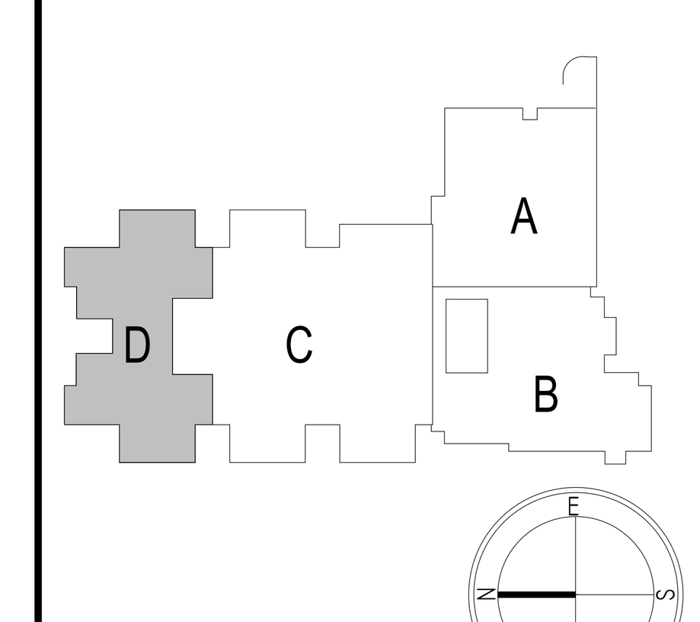
CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204



KEY PLAN

BID SET

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

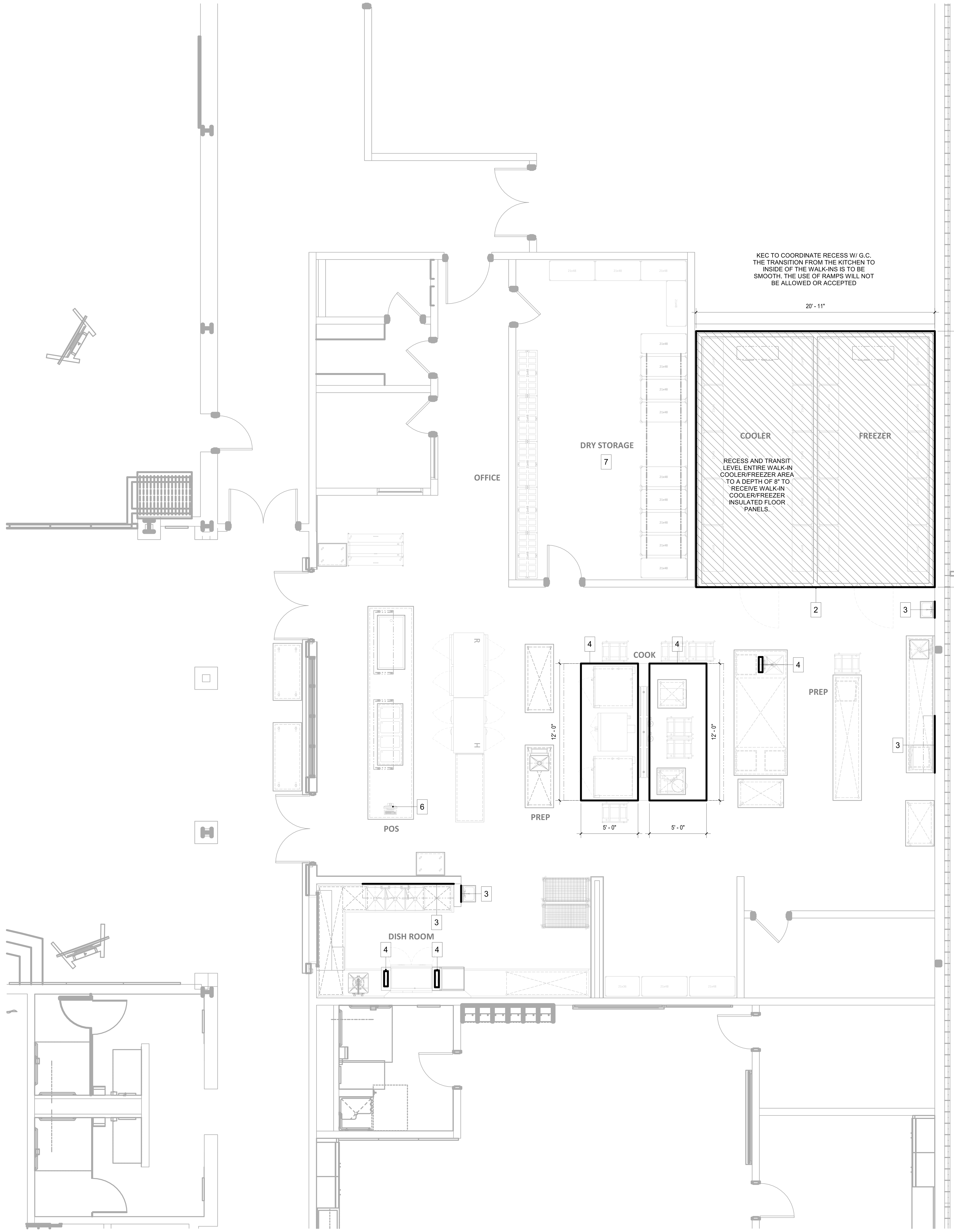
PROJECT MANAGER: KRS
DRAWN BY: BGS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	12.19.2025

UNIT D - REFLECTED CEILING PLAN

A9.04

12/19/2025 7:22:45 AM



FOODSERVICE SPECIAL CONDITIONS LAYOUT
2 1/4" = 1'-0"

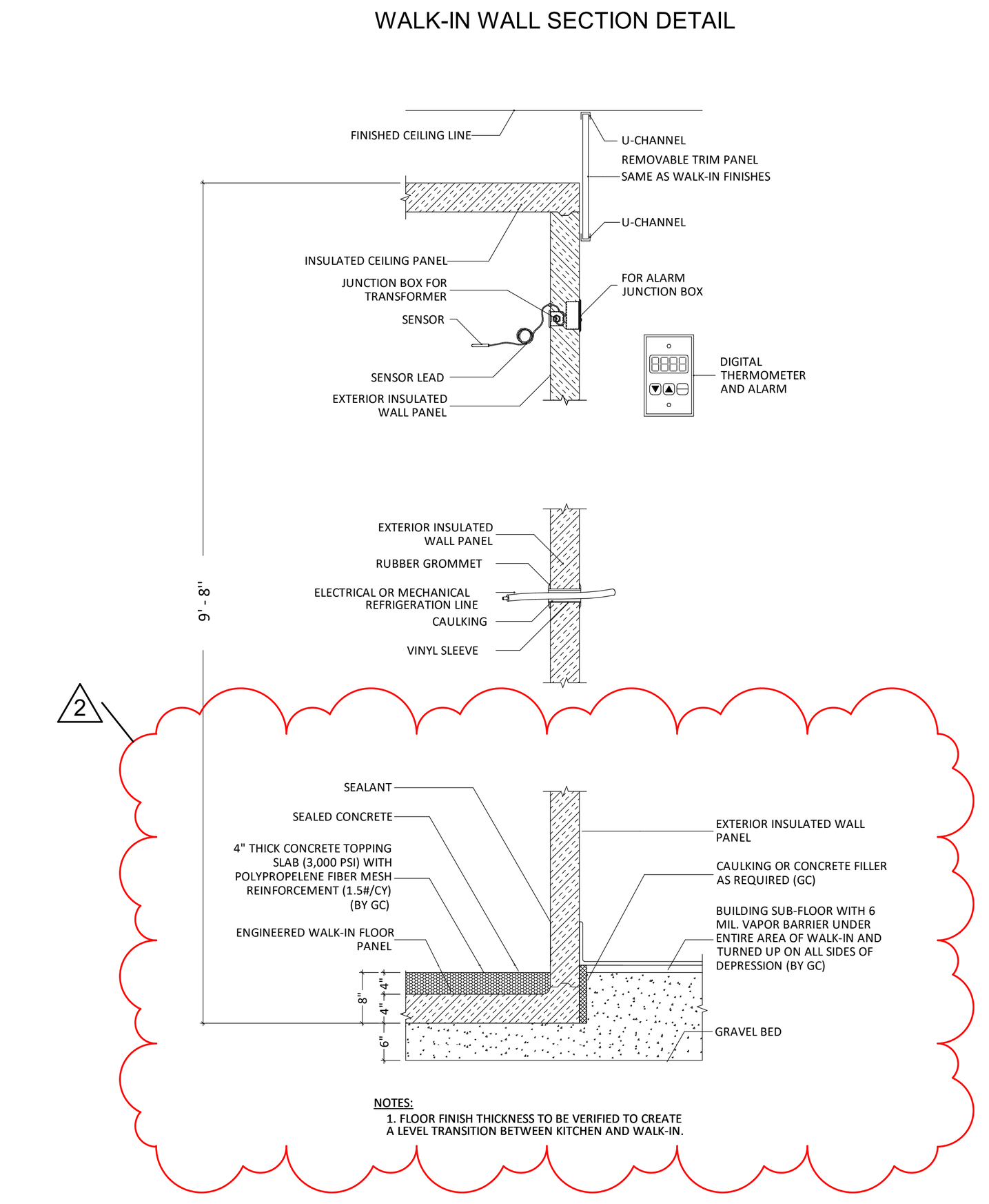
SPECIAL CONDITIONS LAYOUT NOTES

1. NOT IN USE.
2. (BY GENERAL DIVISION) RECESS AND TRANSIT LEVEL ENTIRE WALK-IN COOLER/FREEZER AREA TO A DEPTH OF 8" TO RECEIVE WALK-IN COOLER/FREEZER INSULATED FLOOR PANELS. DEPRESSION TO BE CONSTRUCTED AS TO PROVIDE A LEVEL TRANSITION FROM FLOOR FINISH IN KITCHEN AREA TO THE FLOOR FINISH IN WALK-IN COOLER/FREEZER. (VERIFY REQUIRED DEPRESSION THICKNESS WITH WALK-IN MANUFACTURER'S SHOP DRAWING AND ARCHITECTURAL FLOOR FINISH SCHEDULE)
3. (BY GENERAL DIVISION) PROPERLY REINFORCE ALL WALLS AND/OR CEILINGS TO SUPPORT ALL WALL AND/OR CEILING SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION.
4. (BY GENERAL DIVISION) PROVIDE BOX OUT IN CEILING GRID LAYOUT FOR EXHAUST SYSTEM HOODS AS SHOWN. (REFER TO EXHAUST VENTILATION SYSTEM DRAWINGS FOR MORE INFORMATION)
5. NOT IN USE.
6. (BY ELECTRICAL DIVISION) PROVIDE RACEWAY FOR RUN OF COMPUTER GRADE CONDUIT FROM POINT OF SALE SYSTEMS IN SERVERY AREA TO COMPUTER LOCATED IN KITCHEN MANAGER'S OFFICE FOR COMMUNICATION PURPOSES.
7. (BY MECHANICAL DIVISION) COOL, HEAT &/OR VENTILATE FOOD SERVICE DRY STORAGE ROOM TO MAINTAIN A TEMPERATURE OF 68 DEGREES TO 72 DEGREES YEAR AROUND.

3 COOLER CONDENSING UNIT
5 FREEZER CONDENSING UNIT
55 CONDENSATE FAN
27.1 EXHAUST FAN
27.2 MAKE-UP AIR UNIT

WALK-IN COOLER/FREEZER CONDENSING UNITS TO BE CURB MOUNTED ON ROOFTOP ABOVE WALK-IN COOLER/FREEZER. EXACT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING SET.

WALK-IN WALL SECTION DETAIL



SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

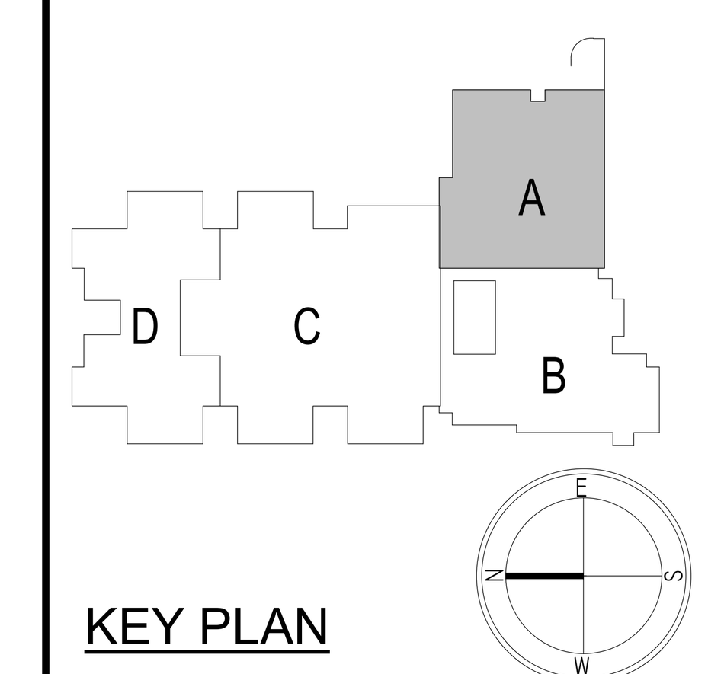
900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST, INDIANAPOLIS IN 46204

CONSULTANT



KEY PLAN

BID SET

PROJECT MANAGER: DK
DRAWN BY: ML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #2	12/19/25

FOODSERVICE SPECIAL CONDITIONS LAYOUT

K1.03

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

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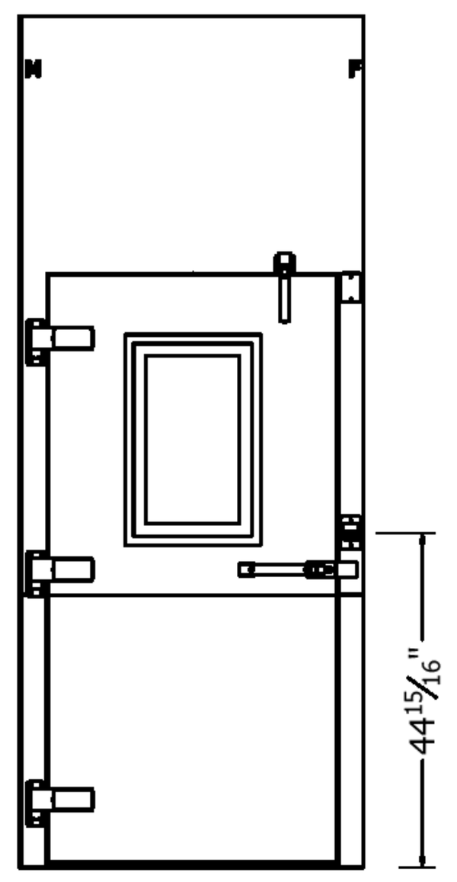
CONSULTANT



FRAME:
RECESSED 4" WITH 0" LEVELING SAND AND 0.625" TILE AND GROUT
EXT: GALVALUME - EMBOSSED WHITE 26GA.
EXT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH
INT: GALVALUME - EMBOSSED WHITE 26GA.
INT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH

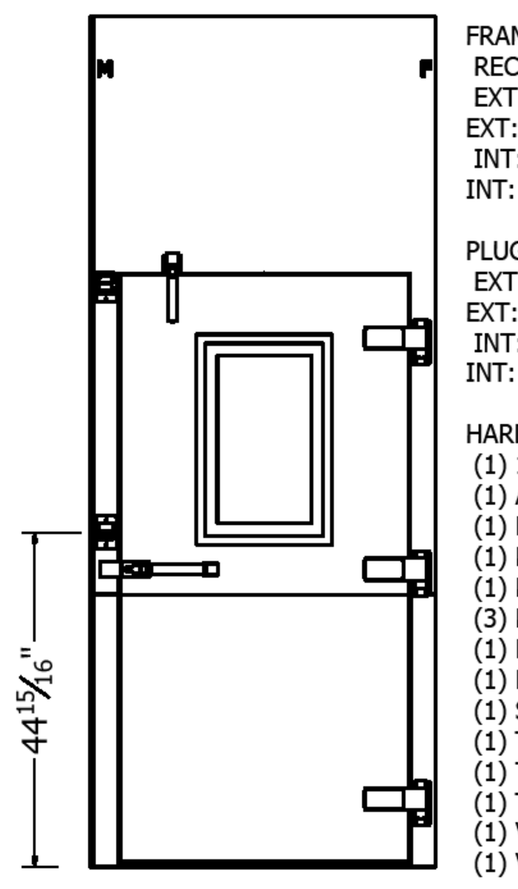
PLUG:
EXT: GALVALUME - EMBOSSED WHITE 26GA.
EXT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH
INT: GALVALUME - EMBOSSED WHITE 26GA.
INT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH

HARDWARE AND ACCESSORIES:
(1) 115/60/1 ELECTRICAL
(1) ALARM - MODULARM 75LC 120V 60HZ, DRY CONTACTS
(1) DOOR CLOSER - KASON 1094 (STD)
(1) HANDLE - KASON 27C BRUSHED CHROME, 1/4 TURN ISR LOCKABLE (4" THICK)
(3) HINGE - KASON 1346 BRUSHED CHROME ADJUSTABLE / SPRING ASSISTED (STD)
(1) LIGHT CENTERED OVER DOOR OPENING
(1) LIGHT FIXTURE - KASON 1803 LED W/BULB, GLOBE AND NIGHTLIGHT 120V 50/60HZ (STD)
(1) STRIP CURTAIN - 30-36 X 78
(1) THRESHOLD, FRP
(1) THRU CEILING ELECTRICAL (ALL CONDUIT CONCEALED)
(1) TILE AND GROUT ADDER
(1) VIEWPORT - 14X24 COOLER, HEATED FRAME 4IN THICK 120V 50/60HZ

36.00" X 78.00"
46.00" X 114.25"

DW-1 (A)

DOOR ELECTRICAL INFORMATION				
DESCRIPTION	QTY	VOLT	AMP	AMP LOAD
HEATED VIEWPORT	1	115	0.28	0.28
LED LIGHT	1	115	0.1	0.1
WEISS ALARM / MODULARM 75LC	1	115	0.03	0.03
115 VOLT, SINGLE PHASE, 60 Hz, TOTAL DOOR AMPS:				0.41



FRAME:
RECESSED 4" WITH 0" LEVELING SAND AND 0.625" TILE AND GROUT
EXT: GALVALUME - EMBOSSED WHITE 26GA.
EXT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH
INT: GALVALUME - EMBOSSED WHITE 26GA.
INT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH

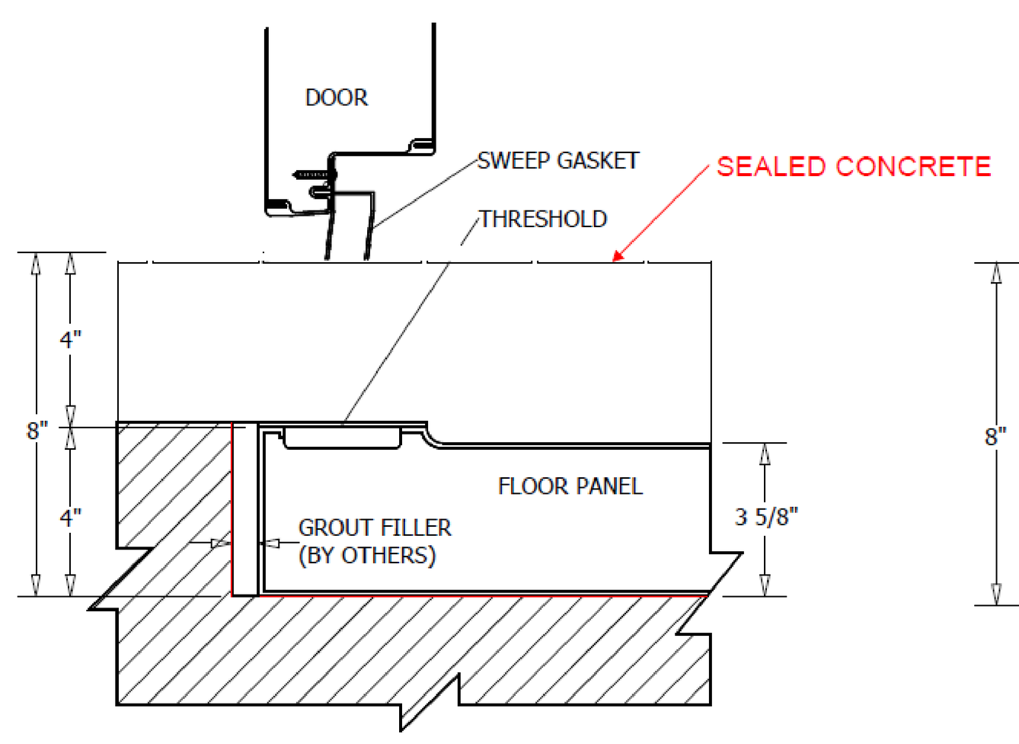
PLUG:
EXT: GALVALUME - EMBOSSED WHITE 26GA.
EXT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH
INT: GALVALUME - EMBOSSED WHITE 26GA.
INT: KICKPLATE, ALUM .125 DIAMOND TREAD 36" HIGH

HARDWARE AND ACCESSORIES:
(1) 115/60/1 ELECTRICAL
(1) ALARM - MODULARM 75LC 120V 60HZ, DRY CONTACTS
(1) DOOR CLOSER - KASON 1094 (STD)
(1) HANDLE - KASON 27C BRUSHED CHROME, 1/4 TURN ISR LOCKABLE (4" THICK)
(1) HEATER WIRE, 5 WATT / FT
(3) HINGE - KASON 1346 BRUSHED CHROME ADJUSTABLE / SPRING ASSISTED (STD)
(1) LIGHT CENTERED OVER DOOR OPENING
(1) LIGHT FIXTURE - KASON 1803 LED W/BULB, GLOBE AND NIGHTLIGHT 120V 50/60HZ (STD)
(1) STRIP CURTAIN - 30-36 X 78
(1) THRESHOLD, FRP
(1) THRU CEILING ELECTRICAL (ALL CONDUIT CONCEALED)
(1) TILE AND GROUT ADDER
(1) VENT - PRESSURE RELIEF, HEATED 120V 50/60HZ 4/5/6" THICK (STD)
(1) VIEWPORT - 14X24 FREEZER, HEATED FRAME AND GLASS 4IN THICK 120V 50/60HZ

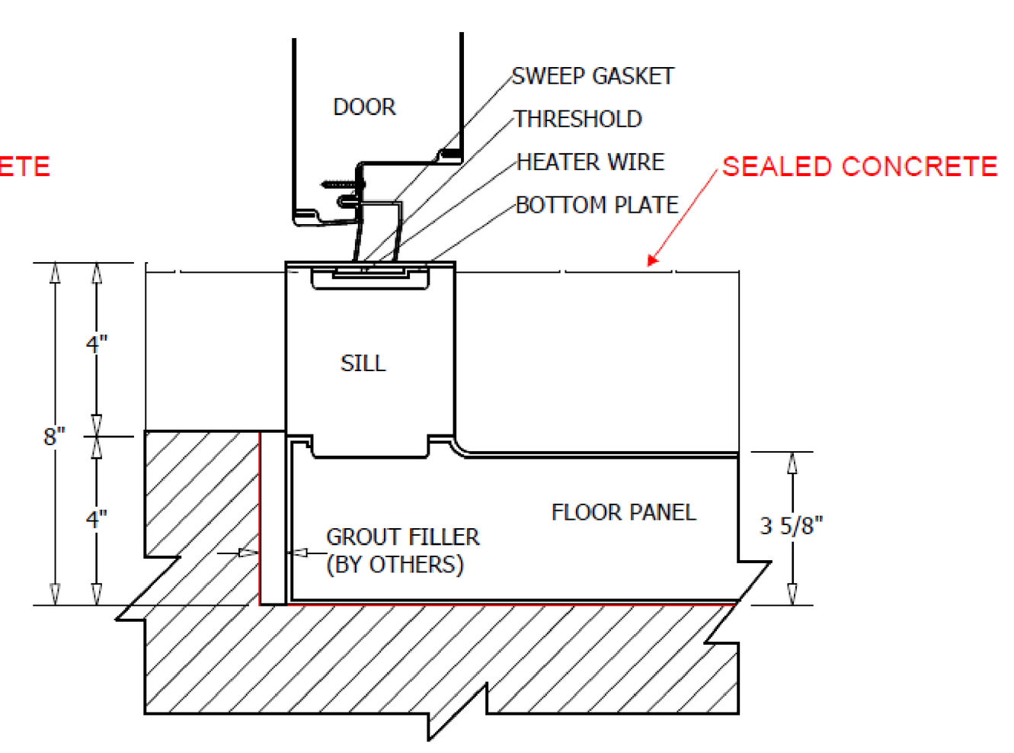
36.00" X 78.00"
46.00" X 114.25"

DW-2 (B)

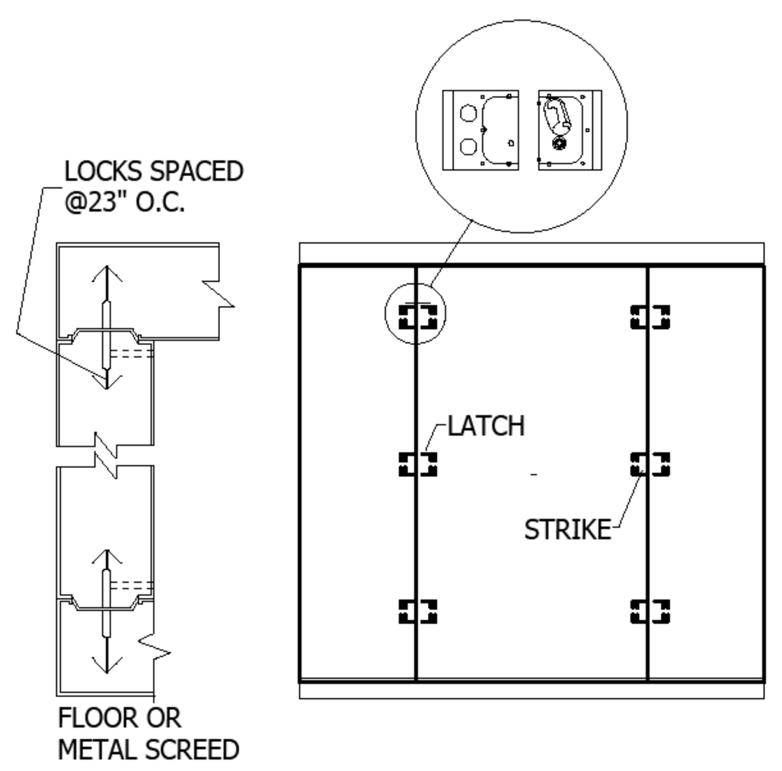
DOOR ELECTRICAL INFORMATION				
DESCRIPTION	QTY	VOLT	AMP	AMP LOAD
HEATED AIR VENT	1	115	0.04	0.04
HEATED VIEWPORT	1	115	0.75	0.75
HEATER WIRE	1	115	0.8	0.8
LED LIGHT	1	115	0.1	0.1
WEISS ALARM / MODULARM 75LC	1	115	0.03	0.03
115 VOLT, SINGLE PHASE, 60 Hz, TOTAL DOOR AMPS:				1.72



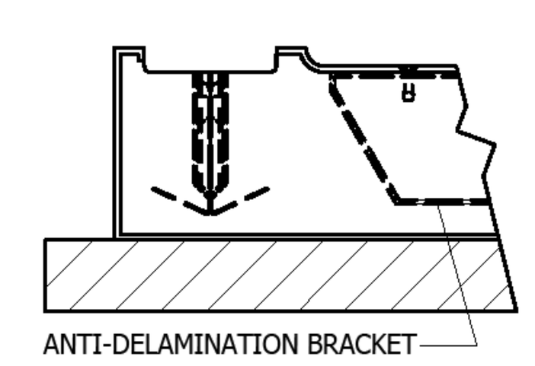
1 DETAIL - 4IN FLOOR- 8IN RECESS-T&G
Scale: NTS



2 DETAIL - 4IN FLOOR- 8IN RECESS-T&G-HTR WIRE
Scale: NTS

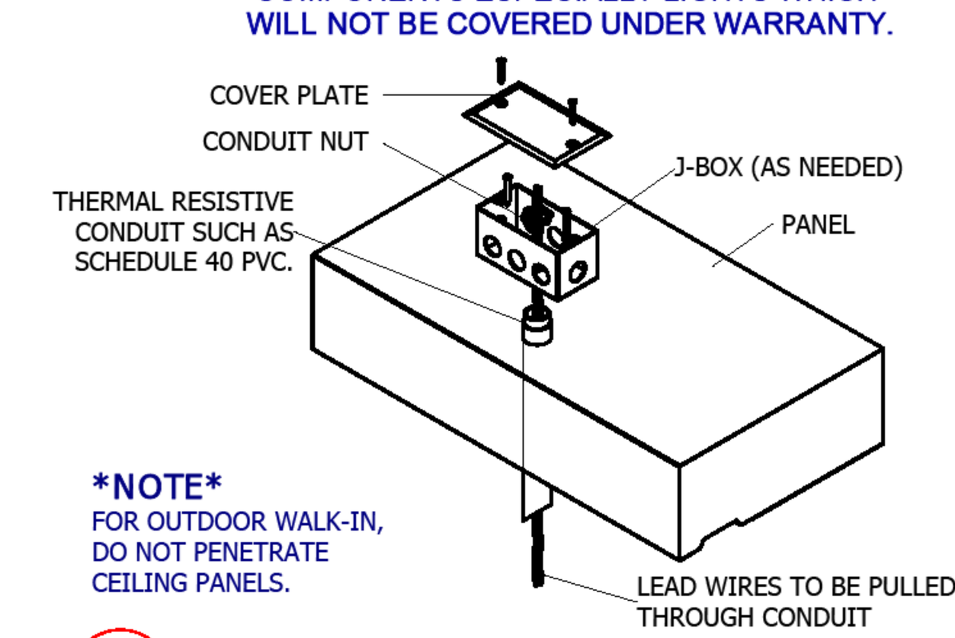


3 DETAIL - PANEL CONNECTION AT FLOORS OR METAL SCREEDS
Scale: NTS



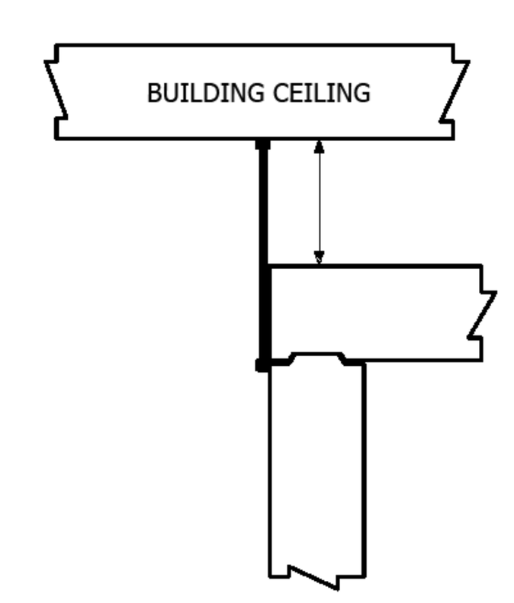
4 DETAIL - FOOT-LIGHT ROLLING CART FLOOR CONSTRUCTION
Scale: NTS

AT EVERY ENTRANCE CONDUIT, FORCE SEALANT AROUND THE EXTERIOR OF THE ELECTRICAL CONDUIT AND INSIDE THE CONDUIT AROUND THE WIRES. FAILURE TO ELIMINATE AIRFLOW IN THE CONDUIT WILL ALLOW MOISTURE TO DAMAGE ELECTRICAL COMPONENTS ESPECIALLY LIGHTS WHICH **WILL NOT BE COVERED UNDER WARRANTY.**



NOTE
FOR OUTDOOR WALK-IN, DO NOT PENETRATE CEILING PANELS.

5 DETAIL - ELECTRICAL CONDUIT PENETRATION
Scale: NTS



IF HEIGHT AND LOCATION IS NOT SUPPLIED AT THE TIME OF ORDER, CLOSURE PANEL WILL BE BACK-ORDERED FOR FIELD VERIFICATION.

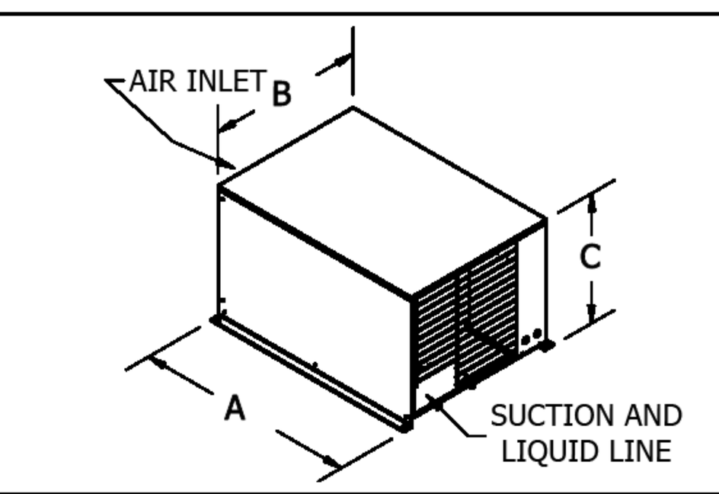
NOTE!
* CLOSURE WILL BE THE SAME FINISH AS WALK-IN.
* BOTTOM RAIL IS SECURED WITH SHEET METAL SCREWS BY KOLPAK.
* TOP RAIL IS SECURED VIA SUITABLE METHOD BY INSTALLER.
* DIMENSION FROM TOP OF FINISHED WALK-IN TO INTERIOR CEILING MUST BE VERIFIED BEFORE FABRICATION.

6 DETAIL - CLOSURE PANEL TO BUILDING CEILING
Scale: NTS

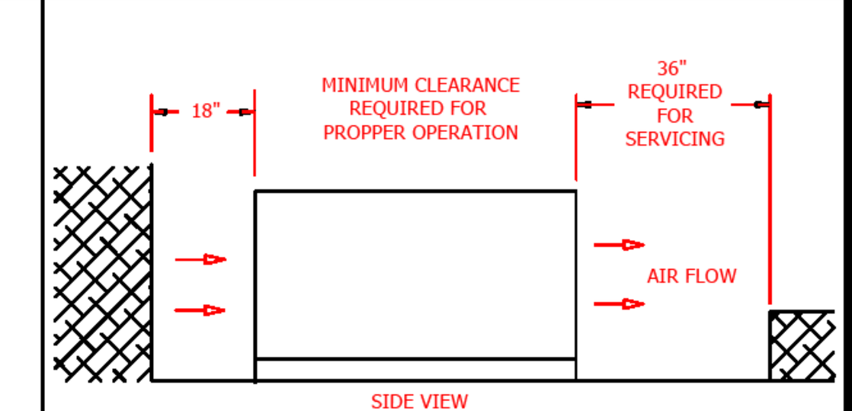
COMPARTMENT		CONDENSING UNIT																					
	TEMP F					DIMENSIONS				COMPRESSOR						CONDENSER FAN MTR					CONNECTIONS O.D.		RCV CAP
DESCRIPTION	WI	QTY	MODEL#	REFRIGERANT	COMPRESSOR TYPE	L (A)	W (B)	H (C)	LBS	HP	RLA	LRA	V	HZ	Φ	FLA	V	Φ	TOTAL AMPS	MX AMP DISC	SUCT	LIQ	@ 90% FULL (lbs)
C01 COOLER	35	1	KPC98MZOP-3E	R448A	SCROLL	33	25.5	19.25	169	1	8	55.4	208-230	60	3	1.2	208-230	1	9.4	15	5/8	3/8	10.4
F01 FREEZER	-10	1	KPC448LZOP-3E	R448A	SCROLL	33	40.125	29.25	405	4 1/2	13.2	99	208-230	60	3	3.6	208-230	1	17.1	30	1 1/8	1/2	19.7

COMPARTMENT		UNIT COOLER														
	TEMP F				DIMENSIONS				FAN		HEATER			CONNECTIONS O.D.		
DESCRIPTION	WI	QTY	MODEL # (DEFROST: A-AIR E-ELECTRIC)	REFRIGERANT	L (D)	W (E)	H (F)	LBS	TOTAL AMPS	V	TOTAL AMPS	V	Φ	SUCT	LIQ	DRAIN
C01 COOLER	35	2	KAM16-052-1EC-PR-8	R448A	27.125	15.5	16.75	44	0.8	115	0	N/A	0	5/8	3/8	3/4
F01 FREEZER	-10	2	KEL16-049-2EC-PR-8	R448A	27.125	15.5	16.75	47	0.5	208-230	4.9	208-230	1	5/8	3/8	3/4

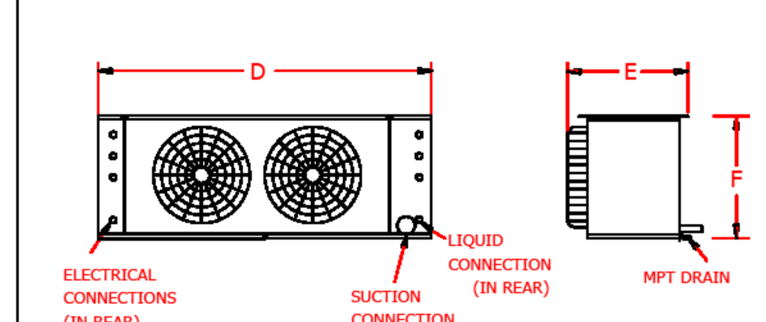
CONDENSING UNIT ASSEMBLY



CLEARANCE REQUIREMENT



EVAPORATOR - MODEL AM, EM, EL, AMB, ELB



DRAWING #: A245766R1
UNIT #: 001
ORDER #: N/A

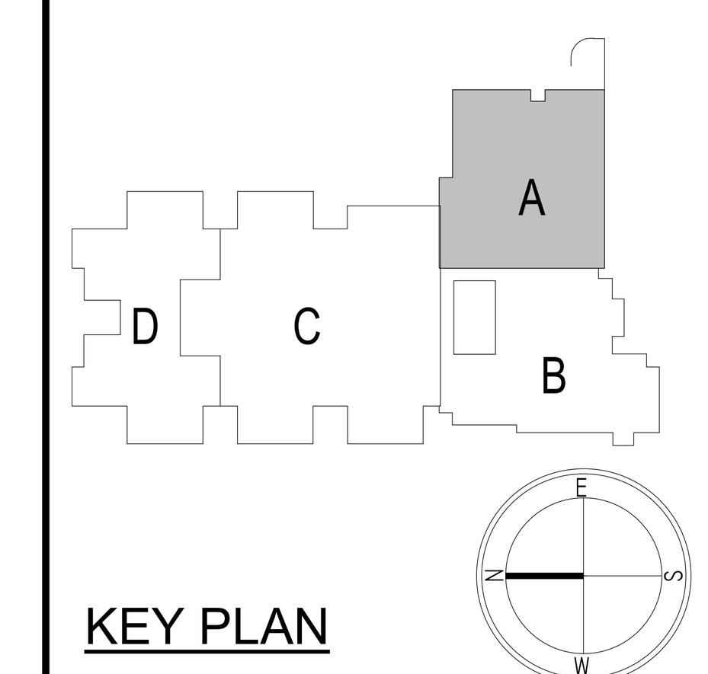
KOLPAK®
2915 Tennessee Avenue North, Parsons, TN 38363
(731) 847-6361 *(800) 826-7036*

SMOKY ROW
N/A
CARMEL,IN 46032 USA

ZINK MARKETING

DATE:
QUOTE REVISION
DATE:
CHECK BY:
DATE: 12/1/2023
DRAWN BY: JTT

SHEET #
AD-3 of 3



KEY PLAN

BID SET

PROJECT MANAGER: DK
DRAWN BY: ML
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO. △	DESCRIPTION	DATE
2	ADDENDUM #2	12/19/25

WALK-IN COOLER / FREEZER DETAILS

K4.02

UNIT A - FIRST FLOOR PLUMBING DEMOLITION PLAN

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

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO ACCOMMODATE NEW PIPING INSTALLATIONS.

UNIT A FIRST FLOOR DEMO PLAN NOTES

1 REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE.

2 REMOVE FLOOR DRAIN GRATE AND BODY COMPLETE. CAP OR PLUG WASTE OUTLET. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

3 REMOVE ALL PIPING WITHIN CHASE COMPLETE. REMOVE ALL CARRIERS AND SUPPORTS COMPLETE. REMOVE 4" WASTE THRU FLOOR TO BELOW CONCRETE SLAB AND CAP. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

4 REMOVE SHOWER DRAIN GRATE, SHOWER PAN AND BODY COMPLETE. CAP OR PLUG WASTE OUTLET. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

5 REMOVE 2" VENT UP INTO CEILING SPACE. EXISTING 4" VENT THRU ROOF TO REMAIN. PREPARE REMAINING PIPING FOR CONNECTION TO NEW.

6 REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. EXISTING WATER AND WASTE ROUGH-INS TO REMAIN. PREPRARE EXISTING ROUGH-INS FOR CONNECTION TO NEW.

7 REMOVE COLD WATER, HOT WATER AND HOT WATER RETURN PIPING BACK TO THIS POINT. PREPARE REMAINING PIPING FOR CONNECTION TO NEW.

8 REMOVE 2" VENT UP INTO CEILING SPACE. EXISTING 3" VENT THRU ROOF TO REMAIN. PREPARE REMAINING PIPING FOR CONNECTION TO NEW.

9 REMOVE COLD WATER, HOT WATER AND HOT WATER RETURN PIPING BACK TO THIS POINT AND CAP.

10 REMOVE FLOOR CLEANOUT COMPLETE.

11 REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. REMOVE WASTE AND WATER ROUGH-INS BACK INTO CHASE AND CAP. PATCH WALL TO MATCH EXISTING FINISHES.

12 REMOVE PIPING BACK TO THIS POINT AND PREPARE REMAINING PIPING FOR CONNECTION TO NEW.

13 REMOVE PIPING BACK TO THIS POINT AND CAP.

14 REMOVE FLOOR TROUGH, BODY AND GRATE COMPLETE. REMOVE WASTE PIPING TO BELOW SLAB AND CAP. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

15 REMOVE WALK-IN COOLER/FREEZER EVAPORATOR COILS COMPLETE. PRESERVE EXISTING MECHANICAL ROOM WALL PENETRATION FOR ROUTING OF NEW DRAIN LINES. SEE NEW PLUMBING PLANS FOR MORE INFORMATION.

16 REMOVE ALL PIPING AND VALVES ASSOCIATED WITH UTILITY DISTRIBUTION SYSTEM. REMOVE WATER AND GAS PIPING UP TO ABOVE CEILING AND PREPARE REMAINING PIPE FOR CONNECTION TO NEW.

17 REMOVE STAINLESS STEEL UTILITY CHASE. REMOVE WATER AND VENT PIPING UP TO ABOVE CEILING. REMOVE WASTE DOWN TO BELOW SLAB AND CAP.

18 REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED VALVES AND TRIM COMPLETE. REMOVE WATER ROUGH-INS COMPLETE. REMOVE WASTE BACK INTO WALL AND CAP. PATCH WALL TO MATCH EXISTING FINISHES.

19 REMOVE P-TRAP ASSEMBLY AND ASSOCIATED PIPING COMPLETE. REMOVE WASTE ROUGH-IN BACK INTO WALL AND CAP. PATCH WALL TO MATCH EXISTING FINISHES.

20 REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED VALVES AND TRIM COMPLETE. EXISTING WATER AND DRAIN ROUGH-INS TO REMAIN. PREPARE ROUGH-INS FOR CONNECTION TO NEW.

21 REMOVE PIPING COMPLETE.

22 REMOVE FLOOR SINK GRATE AND BODY COMPLETE. CAP OR PLUG WASTE OUTLET. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

23 REMOVE STAINLESS STEEL KITCHEN CASEWORK AND ALL ASSOCIATED VALVES, PIPING AND EQUIPMENT COMPLETE. REMOVE WATER ROUGH-INS BACK INTO WALL AND CAP. REMOVE WASTE ROUGH-INS BACK INTO WALL AND CAP. PATCH WALL TO MATCH EXISTING FINISHES.

24 REMOVE THERMOSTATIC MIXING VALVE AND ASSOCIATED SHUTOFF VALVES COMPLETE. PREPARE REMAINING PIPING FOR CONNECTION TO NEW.

1 25 DISCONNECT NATURAL GAS AND LP FROM EXISTING BOILER. PREPARE REMAINING PIPING FOR CONNECTION TO NEW.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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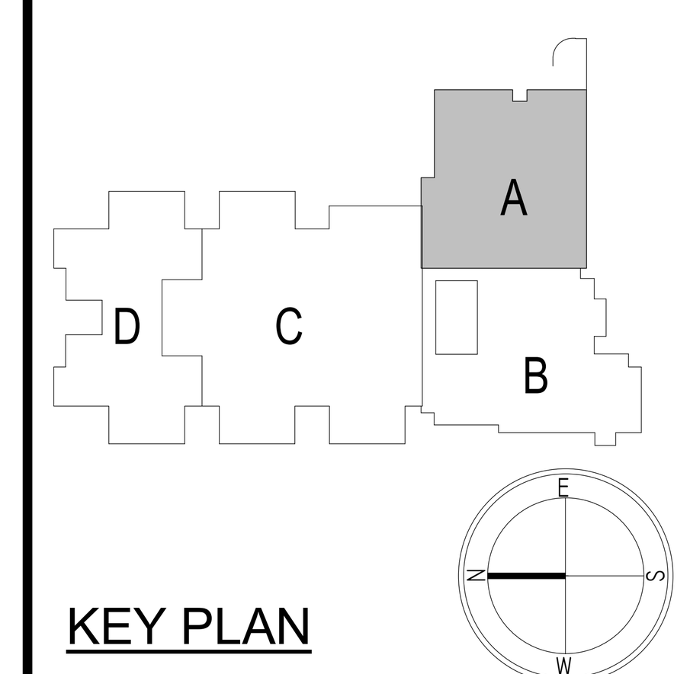

KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: JE

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

UNIT A - FIRST FLOOR PLUMBING DEMOLITION PLAN

PD.04

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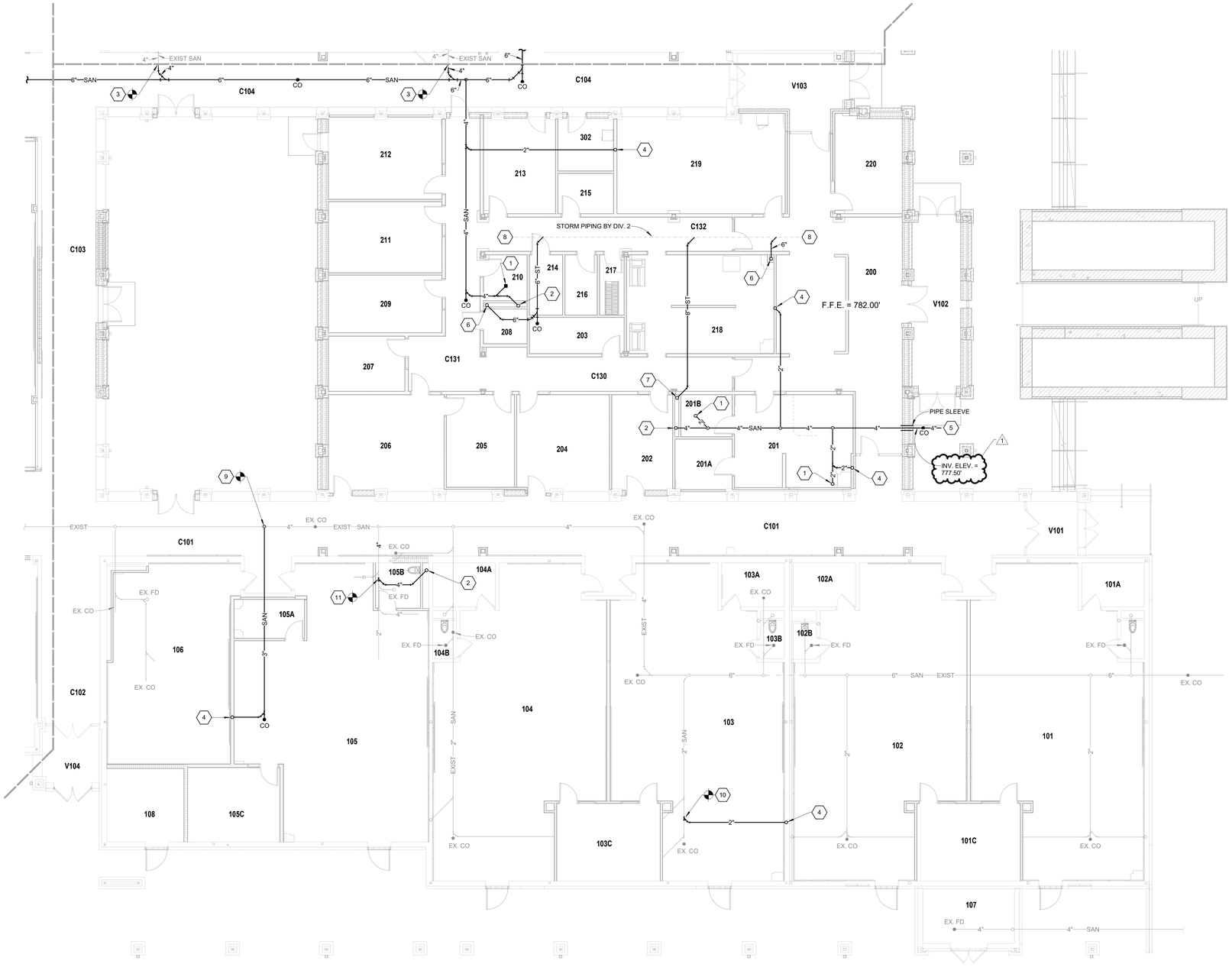

UNIT B - FOUNDATION PLUMBING PLAN

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

ROOM NO.	ROOM NAME	AREA (SF)
	ACTIVITY COURTYARD	2313 SF
101	KINDER - CR 1	1327 SF
101A	STORAGE	80 SF
101B	TOILET	26 SF
101C	SMALL GROUP	234 SF
102	KINDER - CR 2	1325 SF
102A	STORAGE	80 SF
102B	TOILET	24 SF
103	KINDER - CR 3	1329 SF
103A	STORAGE	80 SF
103B	TOILET	27 SF
103C	SMALL GROUP	234 SF
104	KINDER - CR 4	1327 SF
104A	STORAGE	80 SF
104B	TOILET	27 SF
105	KINDER - CR 35	1243 SF
105A	STORAGE	80 SF
105B	RR	58 SF
105C	SMALL GROUP	201 SF
106	FLEX ROOM	707 SF
107	MECH	149 SF
108	OUTDOOR STORAGE	166 SF
200	RECEPTION	901 SF
201	CLINIC	315 SF
201A	EXAM	84 SF
201B	RR	63 SF
202	E.C. SPEECH	172 SF
203	STORAGE	100 SF
204	ASST PRINCIPAL'S OFFICE	262 SF
205	SMALL CONFERENCE	183 SF
206	PRINCIPAL'S OFFICE	330 SF
207	PSYCHOLOGIST	123 SF
208	ISOLATION	44 SF
209	INST COACH OFFICE	191 SF
210	RR	58 SF
211	SOCIAL WORKER	235 SF
212	OT/PT OFFICE	272 SF
213	SPEECH/HEARING	203 SF
214	ELEC	58 SF
215	TEST STOR/ QUIET SPACE	65 SF
216	IDF	57 SF
217	MEZZANINE	43 SF
218	WORKROOM	418 SF
219	LARGE CONFERENCE	478 SF
220	SRO OFFICE	189 SF
302	MOTHERS	88 SF
C101	CORRIDOR	1729 SF
C102	CORRIDOR	283 SF
C103	CORRIDOR	625 SF
C104	CORRIDOR	1172 SF
C130	CORRIDOR	261 SF
C131	CORRIDOR	342 SF
C132	CORRIDOR	248 SF
V101	VESTIBULE	91 SF
V102	SECURE VESTIBULE	253 SF
V103	VESTIBULE	216 SF
V104	VESTIBULE	103 SF

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING OF EXISTING CONCRETE SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF UNDERSLAB PIPING SYSTEMS. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

UNIT B FOUNDATION PLAN NOTES

1. 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
2. 4" WASTE FROM ABOVE.
3. CONNECT 4" WASTE TO EXISTING 4" WASTE MAIN AT THIS LOCATION.
4. 2" WASTE FROM ABOVE.
5. REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
6. 6" STORM FROM ABOVE.
7. 8" STORM FROM ABOVE.
8. STORM DRAIN PIPE BY DIVISION 2 CONTRACTOR. REFER TO SITE/CIVIL DRAWINGS FOR EXACT SIZE, LOCATION AND MORE INFORMATION.
9. CONNECT 3" WASTE TO EXISTING 4" WASTE MAIN AT THIS LOCATION.
10. CONNECT 2" WASTE TO EXISTING 2" WASTE AT THIS LOCATION.
11. CONNECT 3" WASTE TO EXISTING 4" WASTE MAIN AT THIS LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

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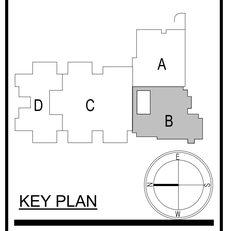
350 E. NEW YORK ST, INDIANAPOLIS IN 46204



KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: JE

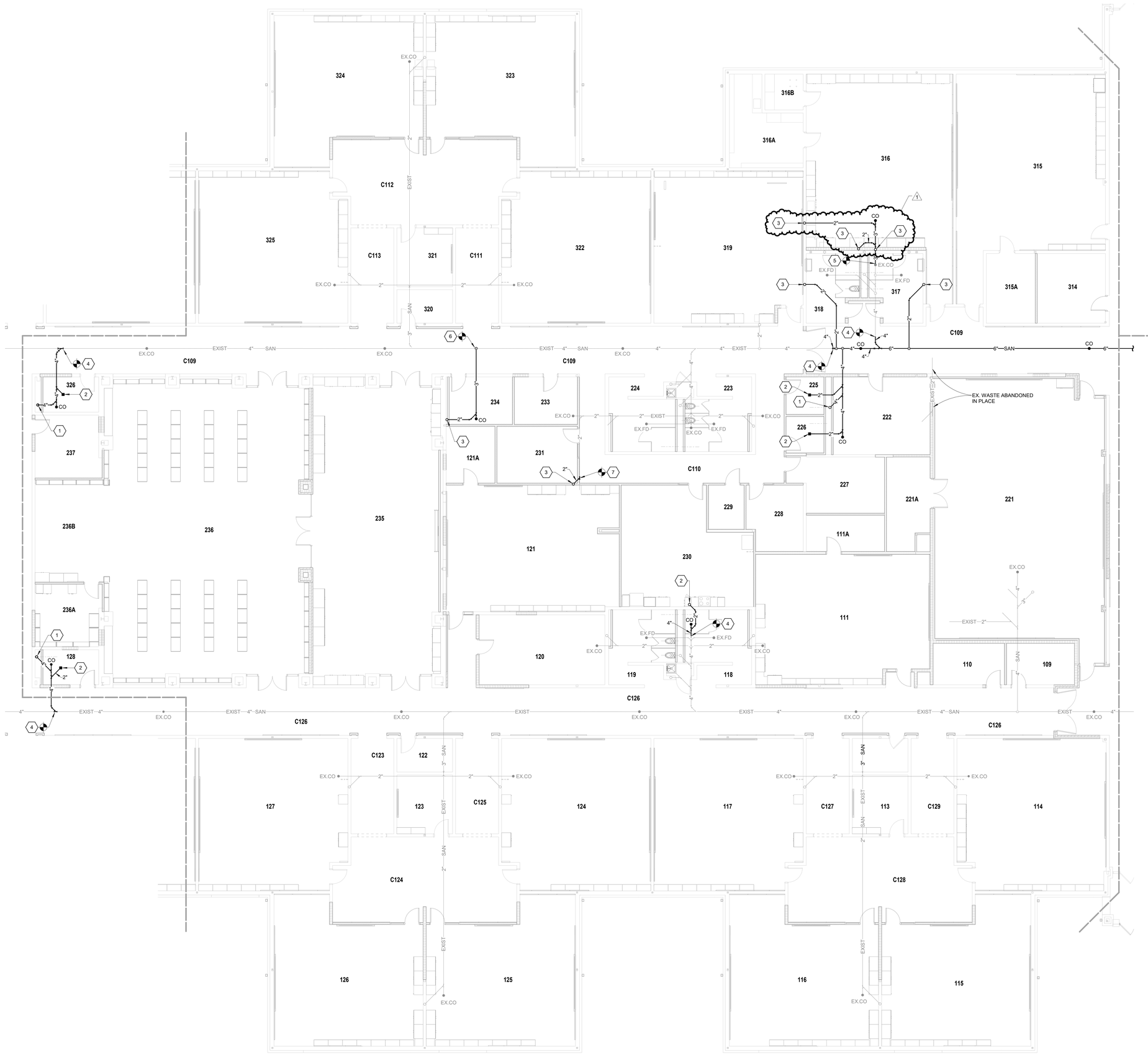
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

UNIT B - FOUNDATION PLUMBING PLAN

P2.02



UNIT C - FOUNDATION PLUMBING PLAN

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

ROOM LEGEND - UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLL/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF
234	DE-ESCALATION	133 SF
235	STEAM LAB	1651 SF
236	DISCOVERY CENTER	2667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING OF EXISTING CONCRETE SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF UNDERSLAB PIPING SYSTEMS. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

UNIT C FOUNDATION PLAN NOTES

1. 4" WASTE FROM ABOVE.
2. 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
3. 2" WASTE FROM ABOVE.
4. CONNECT 4" WASTE TO EXISTING 4" WASTE MAIN AT THIS LOCATION.
5. CONNECT 3" WASTE TO EXISTING 4" WASTE AT FLOOR CLEANOUT.
6. CONNECT 3" WASTE TO EXISTING 4" WASTE MAIN AT THIS LOCATION.
7. CONNECT 2" WASTE TO EXISTING 2" WASTE AT THIS LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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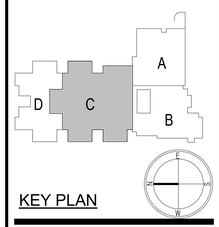


BID SET

PROJECT MANAGER: KRS

DRAWN BY: JE

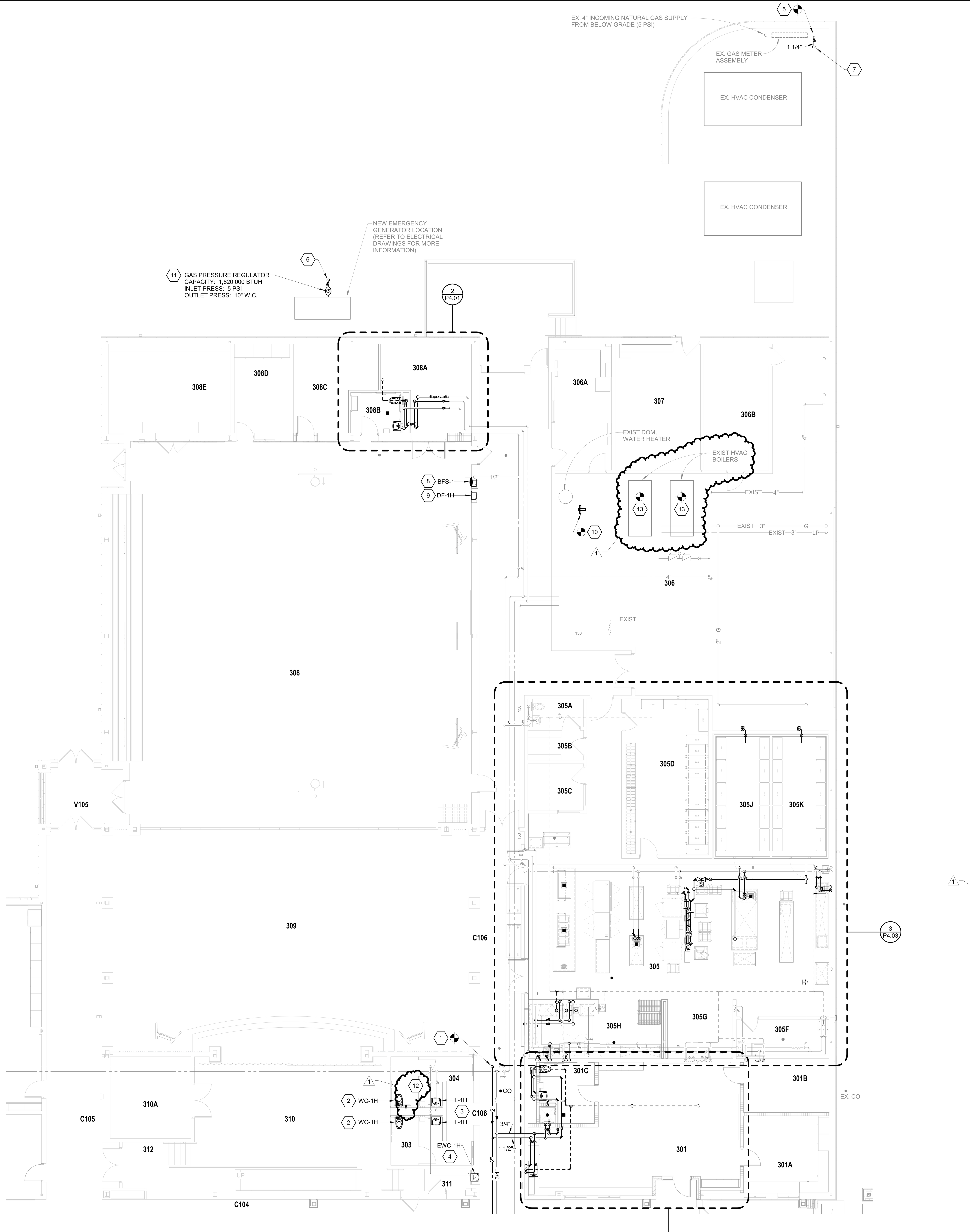
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

UNIT C - FOUNDATION PLUMBING PLAN

P2.03



UNIT A - FIRST FLOOR PLUMBING PLAN

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

ROOM NO.	ROOM NAME	AREA (SF)
	ROOM LEGEND - UNIT A	
301	CLASSROOM 34 - F.A.P.	727 SF
301A	SMALL GROUP	213 SF
301B	DE-ESCALATION	139 SF
301C	RESTROOM	109 SF
303	GIRLS	105 SF
304	BOYS	111 SF
305	KITCHEN	1688 SF
305A	TOILET	46 SF
305B	DRESSING	54 SF
305C	KITCHEN OFFICE	84 SF
305D	DRY STORAGE	422 SF
305E	CUST.	Not Placed
305F	LAUNDRY	117 SF
305G	BREAKROOM	124 SF
305H	DISHWASHING	246 SF
305J	COOLER	237 SF
305K	FREEZER	235 SF
306	BOILER ROOM	2210 SF
306A	CUSTODIAL OFFICE & BREAKROOM	231 SF
306B	ELECTRICAL	265 SF
307	OUTDOOR STORAGE	348 SF
308	GYMNASIUM	4501 SF
308A	STORAGE	219 SF
308B	FAMILY RR	66 SF
308C	PARKS OFFICE	203 SF
308D	P.E. OFFICE	161 SF
308E	STORAGE	353 SF
309	CAFETORIUM	2292 SF
310	STAGE	1019 SF
311	IDF	29 SF
312	BACKSTAGE	228 SF
313	STORAGE	987 SF
C105	CORRIDOR	761 SF
C106	CORRIDOR	642 SF
C107	CORRIDOR	1055 SF
V105	VESTIBULE	151 SF

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO ACCOMMODATE NEW PIPING INSTALLATIONS.

UNIT A FIRST FLOOR PLAN NOTES

1 CONNECT 2" COLD WATER AND 1" HOT WATER TO EXISTING WATER MAINS AT THIS LOCATION.

2 MOUNT NEW WATER CLOSET ON EXISTING WATER CLOSET CARRIER. ADJUST CARRIER AS REQUIRED TO ACCOMMODATE REQUIRED WATER CLOSET MOUNTING HEIGHT. EXTEND COLD WATER SUPPLY TO EXISTING COLD WATER ROUGH-IN. MAKE FINAL CONNECTIONS AS REQUIRED.

3 MOUNT NEW LAVATORY AT REQUIRED HEIGHT. EXTEND EXISTING HOT WATER, COLD WATER AND WASTE TO EXISTING ROUGH-INS AND MAKE FINAL CONNECTIONS.

4 MOUNT NEW ELECTRIC WATER COOLER ON EXISTING WALL TO EXISTING FIXTURE SUPPORT. ADJUST FIXTURE SUPPORT TO ACCOMMODATE FIXTURE. EXTEND COLD WATER AND DRAIN TO EXISTING ROUGH-INS AND MAKE FINAL CONNECTIONS.

5 CONNECT 1 1/4" GAS (5 PSI) TO EXISTING 4" GAS (5 PSI) AT THIS LOCATION.

6 1 1/4" GAS (5 PSI) FROM BELOW GRADE. REFER TO GAS PIPE MATERIAL TRANSITION DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.

7 1 1/4" GAS (5 PSI) DOWN TO BELOW GRADE. REFER TO GAS PIPE MATERIAL TRANSITION DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.

8 MOUNT NEW BOTTLE FILLING STATION IN EXISTING WALL. MODIFY WALL/SUPPORT TO ACCOMMMODATE NEW FIXTURE. EXTEND COLD WATER AND DRAIN TO EXISTING ROUGH-INS AND MAKE FINAL CONNECTIONS.

9 MOUNT NEW DRINKING FOUNTAIN IN EXISTING WALL. MODIFY WALL/SUPPORT TO ACCOMMMODATE NEW FIXTURE. EXTEND COLD WATER AND DRAIN TO EXISTING ROUGH-INS AND MAKE FINAL CONNECTIONS.

10 PROVIDE NEW THERMOSTATIC MIXING VALVE EQUAL TO EXISTING UNIT. NEW UNIT SHALL HAVE MATCHING FLOW AND TEMPERATURE CHARACTERISTICS AS THE EXISTING UNIT. CONNECT ALL EXISTING CONNECTIONS TO NEW UNIT AS REQUIRED. PROVIDE NEW SHUTOFF VALVES AND CHECK VALVES AS REQUIRED.

11 CONNECT 1 1/2" GAS (10" W.C.) TO EMERGENCY GENERATOR WITH SHUTOFF VALVE, MIN. 6" DIRT LEG AND UNION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.

1

12 REMOVE EXISTING WATER HAMMER ARRESTER AND REPLACE WITH UNIT THAT MATCHES EXISTING CHARACTERISTICS AND SIZE.

13 CONNECT NATURAL GAS AND LP SUPPLIES TO BOILER WITH SHUTOFF VALVE, MIN. 6" DIRT LEG AND UNION. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH HVAC DRAWINGS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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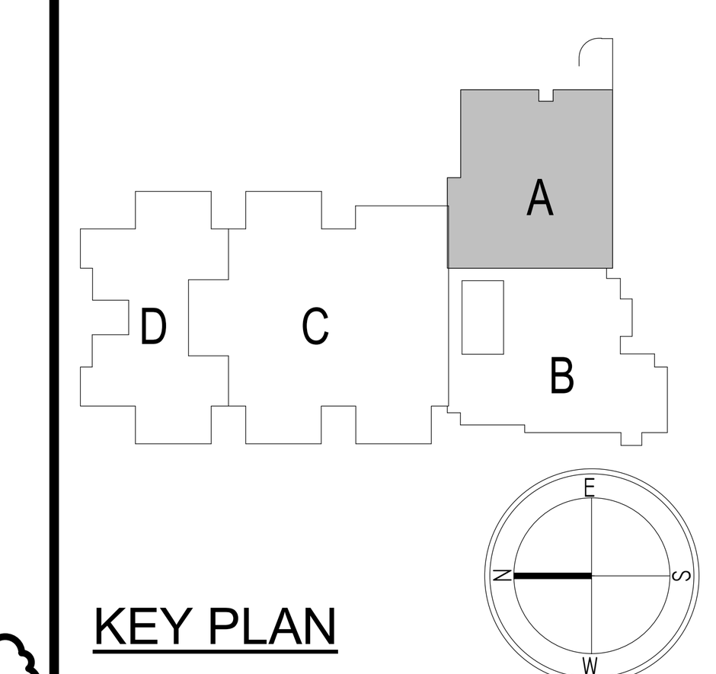

KEY PLAN

BID SET

MARK Z. HOPE
REGISTERED
No. PE 12000601
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS
DRAWN BY: JE
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

UNIT A - FIRST FLOOR PLUMBING PLAN

P2.05

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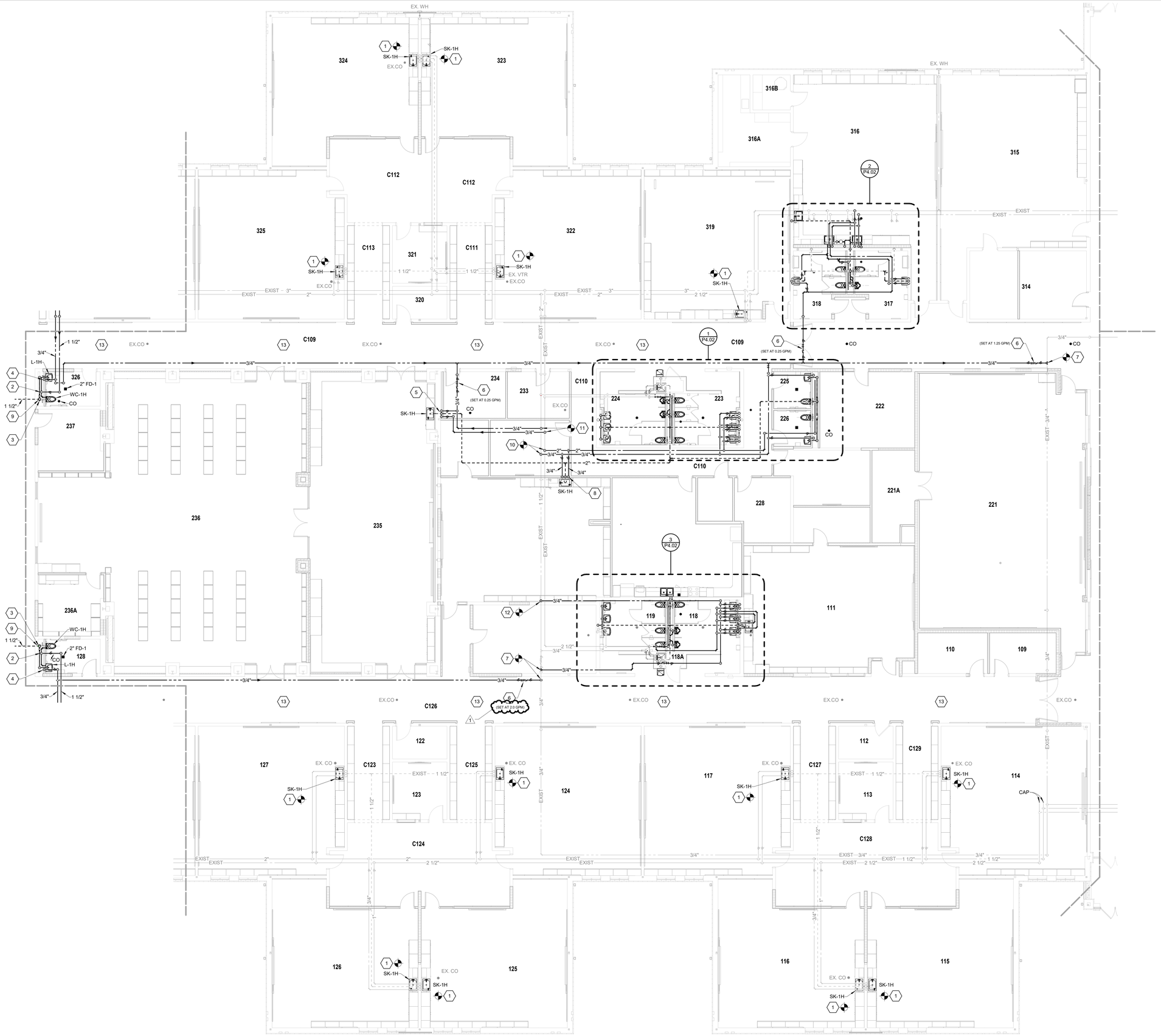

UNIT C - FIRST FLOOR PLUMBING PLAN

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

ROOM LEGEND - UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLL// INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF
234	DE-ESCALATION	133 SF
235	STEAM LAB	1651 SF
236	DISCOVERY CENTER	2667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO ACCOMMODATE NEW PIPING INSTALLATIONS.

UNIT C FIRST FLOOR PLAN NOTES

1. EXTEND 1/2" HOT AND COLD WATER TO EXISTING WATER ROUGH-INS AND MAKE FINAL CONNECTIONS. EXTEND 1 1/2" WASTE TO EXISTING WASTE ROUGH-IN AND MAKE FINAL CONNECTION. REWORK EXISTING ROUGH-INS AS NEEDED TO ACCOMMODATE NEW SINK INSTALLATION.
2. 1 1/2" COLD WATER DOWN IN CHASE. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'A' AT FLUSH VALVE CONNECTION.
3. 4" WASTE DOWN TO BELOW SLAB, 4" VENT UP TO 4" VENT THRU ROOF.
4. 1/2" HOT WATER DOWN.
5. 3/4" HOT AND COLD WATER DOWN IN WALL. EXTEND THRU EXISTING 12" CMU WALL TO SINK. EXTEND 1 1/2" WASTE ARM THRU EXISTING 12" CMU WALL TO SINK. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
6. HOT WATER RETURN BALANCE STATION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.
7. CONNECT 3/4" HOT WATER RETURN TO EXISTING HOT WATER RETURN MAIN AT THIS LOCATION.
8. 3/4" HOT AND COLD WATER DOWN IN WALL. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
9. CONNECT 1 1/2" VENT TO VENT STACK.
10. CONNECT 2" COLD WATER AND 3/4" HOT WATER TO EXISTING WATER MAINS AT THIS LOCATION.
11. CONNECT 3/4" HOT AND COLD WATER TO EXISTING WATER MAINS AT THIS LOCATION.
12. CONNECT 3/4" HOT WATER TO EXISTING HOT WATER MAIN AT THIS LOCATION.
13. CONTRACTOR SHALL ADJUST EXISTING PLUMBING PIPING, INCLUDING WATER, SANITARY WASTE AND SANITARY VENT PIPING TO BE LOCATED ABOVE NEW CORRIDOR CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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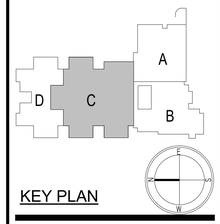


KEY PLAN

BID SET

MARK Z. HOPF REGISTERED No. PE 12005001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS

DRAWN BY: JE

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

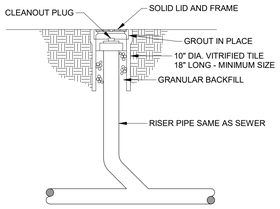
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

UNIT C - FIRST FLOOR PLUMBING PLAN

P2.07

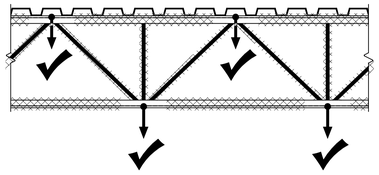
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE ITEM	FIXTURE MFGR	FIXTURE MODEL	FIXTURE MATERIAL	FIXTURE TYPE	FIXTURE COLOR	TRIM ITEM	TRIM MFGR	TRIM MODEL	ACCESSORIES ITEM	ACCESSORIES MFGR	ACCESSORIES MODEL	CONNECTIONS CW	CONNECTIONS HW	CONNECTIONS W	CONNECTIONS V	COMMENTS
BFS-1	RECESSED BOTTLE FILLING STATION	ELKAY	LMASMB	STAINLESS	SURFACE MOUNTED								1/2"		1 1/2"		BATTERY POWERED; UNIT SUPPLIED WITH IN-LINE WATER FILTER AND (3) AAA BATTERIES FROM MANUFACTURER
DF-1H	RECESSED DRINKING FOUNTAIN - ADA	ELKAY	EDFB12C	STAINLESS	RECESSED IN WALL					IN-LINE WATER FILTER	PENTAIR	IN-10NS5	1/2"		1 1/2"		
EWC-1H	ELECTRIC WATER COOLER W/BOTTLE FILLER - ADA	ELKAY	LZS8WSSK	STAINLESS	WALL MOUNTED	-	BUBBLER	-	-	-	-	-	1/2"		2"	1 1/2"	
GI-1	GREASE INTERCEPTOR	SCHIER	GB-500	POLYPROPYLENE	BELOW GRADE / EXTERIOR					SAMPLING PORT	SCHIER	SV-10			6"	4"	6" INLET / OUTLET; PROVIDE FIELD CUT RISER MODEL FCR2 TO ELEVATE ACCESS LIDS TO GRADE
HB-1	HOSE BIBB	CHICAGO	387-E27CP	ROUGH BRONZE	WALL MOUNTED	-	-	-	-	-	-	-	3/4"				MOUNT AT 24" ABOVE FINISHED FLOOR
IB-1	ICE MAKER SUPPLY BOX	GUY GRAY	MIB 1	STAINLESS	WALL MOUNTED	-	-	-	-	-	-	-	1/2"				
L-1	LAVATORY	AMERICAN STANDARD	0355.012	VIT. CHINA	WALL MOUNTED	WHITE	FAUCET	CHICAGO	802-VE34VPABCP	POINT-OF-USE TMV	POWERS	LFG480	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE 0.5 GPM FLOW AERATOR; SET OUTLET TEMPERATURE OF TMV AT 105 DEG. F., SIZE TMV FOR MIN. 0.25 GPM.
L-1H	LAVATORY - ADA	AMERICAN STANDARD	0355.012	VIT. CHINA	WALL MOUNTED	WHITE	FAUCET	SLOAN	EAF350-ISM-0.5	POINT-OF-USE TMV	POWERS	LFG480	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE 0.5 GPM FLOW AERATOR; SET OUTLET TEMPERATURE OF TMV AT 105 DEG. F., SIZE TMV FOR MIN. 0.25 GPM.
PT-1	PLASTER TRAP	MIFAB	M-SOLID-S	CAST IRON	CASEWORK	-	-	-	-	-	-	-			2"		
SH-1H	SHOWER - ADA	SYMMONS	1-902S-FSB	STAINLESS	WALL MOUNTED	SATIN	-	-	-	-	-	-	3/4"	3/4"	2"	1 1/2"	
SK-1H	SINGLE COMPARTMENT SINK - ADA WITH BUBBLER	ELKAY	DRKAD222055	STAINLESS	COUNTERTOP	-	FAUCET	ELKAY	LKD2439C	BUBBLER	ELKAY	LK1141A	1/2"	1/2"	2"	1 1/2"	PROVIDE REAR CENTER DRAIN OUTLET TO ACCOMMMODATE ADA ACCESSIBILITY
SK-2	SINGLE COMPARTMENT SINK	ELKAY	DLR252210PD	STAINLESS	COUNTERTOP	-	FAUCET	CHICAGO	786-E3-369ABCP	-	-	-	1/2"	1/2"	2"	1 1/2"	8" DEEP BOWL
SK-2H	SINGLE COMPARTMENT SINK - ADA	ELKAY	LRAD332255	STAINLESS	COUNTERTOP	-	FAUCET	CHICAGO	786-E3-369ABCP	-	-	-	1/2"	1/2"	2"	1 1/2"	PROVIDE REAR CENTER DRAIN OUTLET TO ACCOMMODATE ADA ACCESSIBILITY; 5.5" DEEP BOWL
SK-3H	DOUBLE COMP. SINK - ADA	ELKAY	LRAD332255	STAINLESS	COUNTERTOP	-	FAUCET	CHICAGO	201-RSGN8AE3VXKAB	-	-	-	1/2"	1/2"	2"	1 1/2"	PROVIDE REAR CENTER DRAIN OUTLET TO ACCOMMODATE ADA ACCESSIBILITY; 5.5" DEEP BOWL
SK-4H	DOUBLE COMP. SINK - ADA (CLINIC SINK)	ELKAY	LRAD332255	STAINLESS	COUNTERTOP	-	FAUCET	CHICAGO	201-RSGN8AE3VXKAB	FAUCET MOUNTED EMERG. EYE WASH	GUARDIAN EQUIPMENT	G1100	1/2"	1/2"	2"	1 1/2"	PROVIDE REAR CENTER DRAIN OUTLET TO ACCOMMODATE ADA ACCESSIBILITY; 5.5" DEEP BOWL
SP-1	SANITARY WASTE SAMPLING PORT	SCHIER	SV-10	POLYPROPYLENE											6"		FIELD MODIFIABLE TO 6" INLET AND OUTLET. PROVIDE FIELD CUT RISER TO ELEVATE ACCESS LID TO GRADE.
UR-1	URINAL	AMERICAN STANDARD	6590.001	VIT. CHINA	WALL MOUNTED	WHITE	FLUSH VALVE	SLOAN	186-0.5 DFB	-	-	-	3/4"		2"	1 1/2"	
UR-1H	URINAL - ADA	AMERICAN STANDARD	6590.001	VIT. CHINA	WALL MOUNTED	WHITE	FLUSH VALVE	SLOAN	186-0.5 DFB	-	-	-	3/4"		2"	1 1/2"	
WC-1	WATER CLOSET	AMERICAN STANDARD	2257.101	VIT. CHINA	WALL MOUNTED	WHITE	FLUSH VALVE	SLOAN	111-1.6	SEAT	BEMIS	1955SSCT	1"		4"	2"	
WC-1H	WATER CLOSET - ADA	AMERICAN STANDARD	2257.101	VIT. CHINA	WALL MOUNTED	WHITE	FLUSH VALVE	SLOAN	111-1.6	SEAT	BEMIS	1955SSCT	1"		4"	2"	
WH-1	NON-FREEZE WALL HYDRANT	J.R. SMITH	5509QT	ROUGH BRONZE	WALL MOUNTED	-	-	-	-	-	-	-	3/4"				MOUNT COURTYARD WALL HYDRANT HEIGHT CENTERED BETWEEN WINDOW LEDGE AND FINISHED GRADE



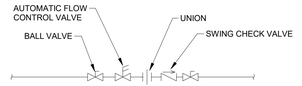
1 EXTERIOR CLEANOUT DETAIL
N.T.S.

ACCEPTABLE LOCATIONS TO HANG LOADS FROM STEEL JOISTS

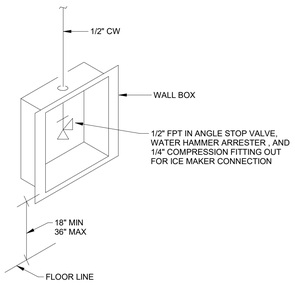


1. LOADS IN EXCESS OF 100 LBS ARE ONLY TO BE HUNG FROM STEEL JOISTS AT THE LOCATIONS INDICATED WITH A CHECKMARK.
2. DO NOT HANG LOADS IN EXCESS OF 100 LBS FROM LOCATIONS AND/OR MEMBERS INDICATED WITH DIAGONAL HATCHING UNLESS ADDITIONAL REINFORCING ANGLES ARE INSTALLED PER THE STRUCTURAL DRAWINGS.
3. LOADS LESS THAN 100 LBS MAY BE HUNG ANYWHERE ALONG THE HORIZONTAL MEMBERS. DO NOT HANG ANY LOADS FROM THE DIAGONAL NOR VERTICAL MEMBERS.
4. THIS SECTIONS APPLIES TO LOADS HANGING FROM BOTH NEW AND EXISTING JOISTS.
5. SPACE HANGERS OUT SO THAT NOT ALL LOADS ARE HANGING FROM THE SAME JOIST.

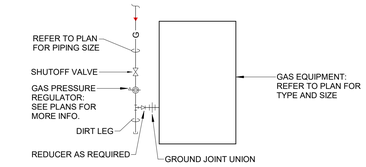
2 HANGING FROM JOIST DETAIL
N.T.S.



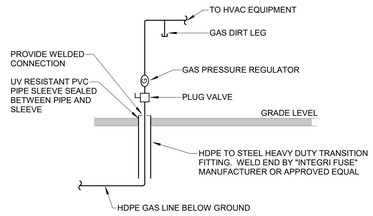
3 HWR BALANCING STATION DETAIL
N.T.S.



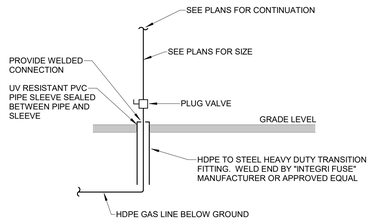
4 ICE MAKER BOX DETAIL
N.T.S.



5 GAS DIRT LEG PIPING DETAIL (WITH PRESSURE REGULATOR)
N.T.S.



6 GAS PIPE TRANSITION AT EQUIPMENT DETAIL
N.T.S.



7 GAS PIPE TRANSITION DETAIL
N.T.S.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

PROJECT MANAGER: KRS

DRAWN BY: JE

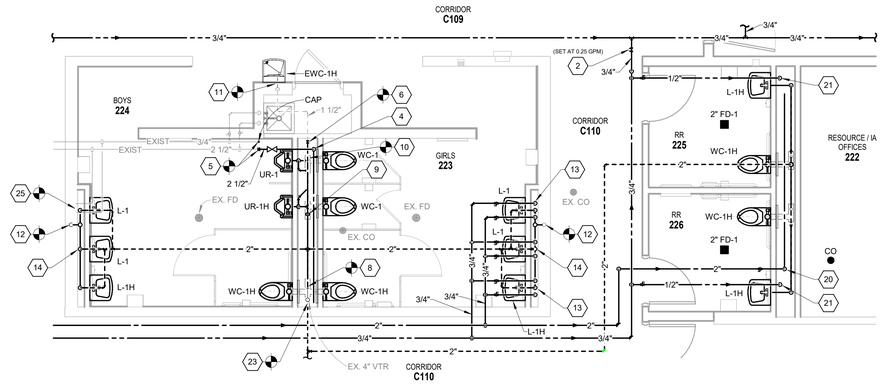
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

PLUMBING SCHEDULES AND DETAILS

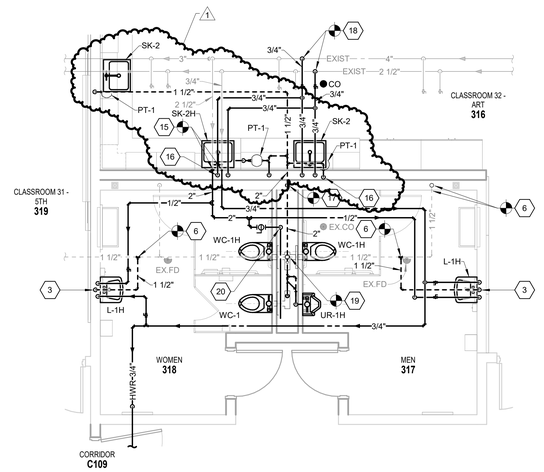
P3.01



UNIT C - ENLARGED RESTROOMS C150 AND C152 PLUMBING PLAN

1

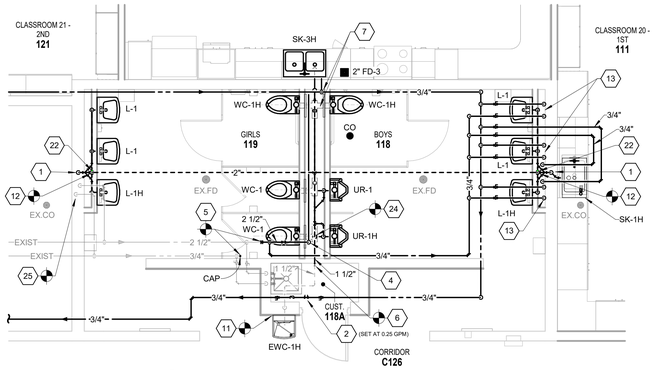
SCALE: 1/4" = 1'-0"



UNIT C - ENLARGED RESTROOMS C109 AND C110 PLUMBING PLAN

2

N.T.S.



UNIT C - ENLARGED RESTROOMS C127 AND C129 PLUMBING PLANS

3

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

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO ACCOMMODATE NEW PIPING INSTALLATIONS.

PLUMBING PLAN NOTES P402

1 3/4" HOT AND COLD WATER DOWN. EXTEND TO SINK FAUCET AS REQUIRED. 2" WASTE DOWN TO BELOW SLAB. CONNECT 1 1/2" VENT TO VENT WITHIN CHASE.

2 HOT WATER RETURN BALANCE STATION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.

3 1/2" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

4 2 1/2" COLD WATER DOWN IN CHASE. ROUTE COLD WATER HEADER FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'C' AT LAST FLUSH VALVE CONNECTION.

5 CONNECT 2 1/2" COLD WATER TO EXISTING WATER MAIN AT THIS LOCATION. CAP HOT WATER PIPE.

6 CONNECT 1 1/2" VENT TO EXISTING 1 1/2" VENT AT THIS LOCATION.

7 3/4" HOT WATER DOWN IN CHASE. EXTEND THRU EXISTING WALL TO SINK. EXTEND 3/4" COLD WATER FROM CHASE THRU EXISTING WALL TO SINK. MAKE FINAL CONNECTIONS AS REQUIRED. EXTEND 1/2" COLD WATER FROM SINK SUPPLY TO UNDERCOUNTER ICE MACHINE THRU ACCESSIBLE IN-LINE WATER FILTER. MAKE FINAL CONNECTION AS REQUIRED. TERMINATE INDIRECT WASTE OVER FLOOR DRAIN. EXTEND 1 1/2" WASTE AND VENT THRU EXISTING WALL AND INTO CHASE. CONNECT TO WASTE AND VENT HEADERS AS REQUIRED.

8 CONNECT 2" VENT TO EXISTING 4" VENT AT THIS LOCATION.

9 2" VENT UP FROM CHASE.

10 CONNECT 4" WASTE TO EXISTING 4" WASTE THRU SLAB.

11 MOUNT NEW ELECTRIC WATER COOLER ON EXISTING WALL AND ATTACH TO EXISTING FIXTURE SUPPORT. ADJUST FIXTURE SUPPORT TO ACCOMMODATE FIXTURE. EXTEND COLD WATER AND DRAIN TO EXISTING ROUGH-INS AND MAKE FINAL CONNECTIONS.

12 CONNECT 2" WASTE TO EXISTING WASTE THRU FLOOR AT THIS LOCATION.

13 1/2" HOT AND COLD WATER DOWN. 1 1/2" WASTE AND VENT.

14 1/2" HOT AND COLD WATER DOWN. 1 1/2" WASTE. 2" VENT UP TO ABOVE CEILING.

15 CONNECT 2" COLD WATER AND 3/4" HOT WATER TO EXISTING WATER MAINS AT THIS LOCATION.

16 3/4" HOT AND COLD WATER DOWN IN EXISTING WALL. EXTEND TO SINK FAUCET AND MAKE FINAL CONNECTIONS AS REQUIRED. 2" WASTE FROM PLASTER TRAP DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.

17 CONNECT 1 1/2" VENT AND 2" VENT TO EXISTING 2" VENT AT THIS LOCATION.

18 CONNECT 3/4" HOT AND COLD WATER TO EXISTING WATER MAINS AT THIS LOCATION.

19 CONNECT 4" WASTE TO EXISTING 4" WASTE THRU SLAB. CONNECT 4" VENT TO EXISTING 4" VENT THRU ROOF.

20 2" COLD WATER DOWN IN CHASE. ROUTE COLD WATER HEADER FULL SIZE THRU ENTIRE LENGTH OF CHASE. EXTEND TO FIXTURES AS REQUIRED. PROVIDE ACCESSIBLE WATER HAMMER ARRESTER TYPE 'C' AT LAST FLUSH VALVE CONNECTION.

21 1/2" HOT WATER DOWN IN CHASE. EXTEND TO FIXTURE AS REQUIRED.

22 2" VENT UP TO ABOVE CEILING.

23 CONNECT 2" VENT TO EXISTING 4" VENT STACK AT THIS LOCATION.

24 CONNECT 4" VENT TO EXISTING 4" VENT STACK AT THIS LOCATION.

25 EXTEND 1/2" HOT AND COLD WATER TO EACH LAVATORY AND MAKE FINAL CONNECTIONS. CONNECT WASTE AND VENT FROM EACH LAVATORY AND DROP TO EXISTING WASTE THRU FLOOR AND MAKE FINAL CONNECTION AS REQUIRED.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

BID SET

MARK Z. HOFF REGISTERED No. PE 12000001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS

DRAWN BY: JE

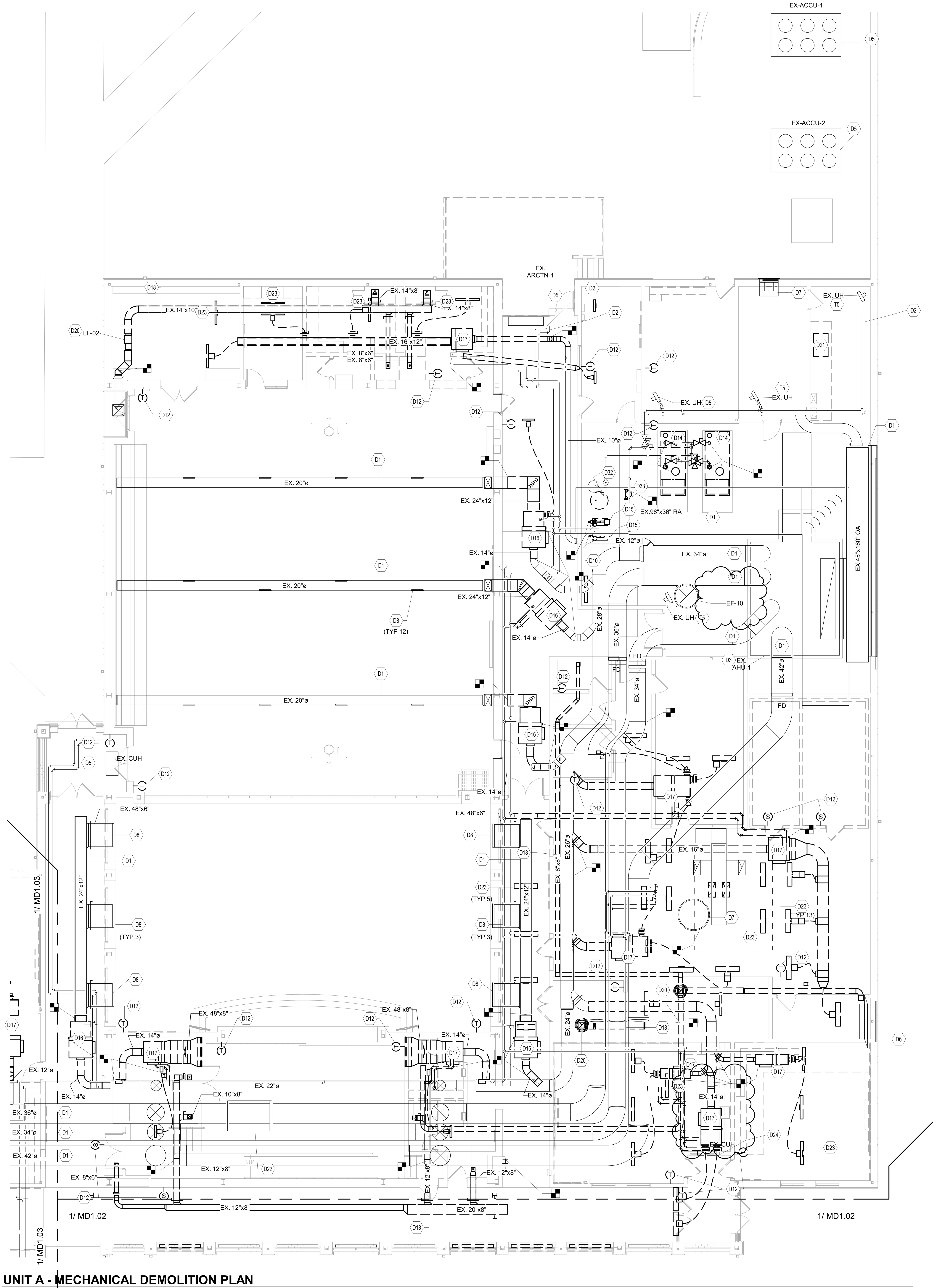
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12.19.2025

ENLARGED PLUMBING PLANS

P4.02



UNIT A - MECHANICAL DEMOLITION PLAN

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

MECHANICAL DEMOLITION PLAN GENERAL NOTES

A. THE DIVISION 23 CONTRACTOR SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.

B. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SAME SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES BY THIS CONTRACTOR.

C. EXISTING OPENINGS WHICH ARE TO BE REUSED SHALL NOT BE REMOVED AND SHALL BE MODIFIED OR ENLARGED AS NEED BE TO SUIT THE NEW SYSTEMS. PROVIDE ALL REQUIRED CUTTING AND PATCHING TO MATCH ADJACENT SURFACES.

D. IF ASBESTOS IS PRESENT CONTACT THE CONSTRUCTION MANAGER, IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPERATE CONTRACT BY THE OWNER.

E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXISTING DUCTWORK HEIGHT, LOCATION AND SIZE.

F. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT THE OWNER DOES NOT WANT TO CLAIM AN ITEM BEFORE DISPOSING THEM OFF SITE.

G. ALL FLOOR, WALL AND ROOF CUTTING WORK TO BE DONE BY DIVISION 23-HVAC CONTRACTOR UNLESS OTHERWISE NOTED. PATCH ALL FLOOR, WALL AND ROOF OPENINGS THAT ARE NOT REUSED TO MATCH ADJACENT CONSTRUCTION.

H. DIVISION 23 CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILINGS TO DO WORK ABOVE THE CEILINGS AND REINSTALL THOSE CEILINGS AFTER COMPLETION OF WORK. IF ANY CEILING PADS OR GRIDS ARE DAMAGED, THIS CONTRACTOR SHALL REPLACE WITH NEW.

MECHANICAL DEMOLITION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
D1	EXISTING DUCTWORK SHALL REMAIN UNLESS NOTED OTHERWISE.
D2	EXISTING HOT WATER PIPING, REFRIGERANT PIPING, VALVES, INSULATION, SUPPORTS, HANGERS, ETC. SHALL REMAIN UNLESS NOTED OTHERWISE.
D3	EXISTING AIR HANDLING UNIT TO REMAIN. INSTALL NEW FILTERS AND CLEAN THE INSIDE OF THE UNITS TO ENSURE PROPER OPERATION.
D5	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
D6	EXISTING RELIEF AIR WALL LOUVER TO BE REMAIN.
D7	EXISTING EXHAUST FAN TO REMAIN. EXISTING DUCTWORK AND DIFFUSERS TO REMAIN UNLESS NOTED OTHERWISE.
D8	EXISTING DIFFUSERS / GRILLES TO REMAIN. CLEAN TO LIKE NEW CONDITION.
D10	EXISTING CONTROL PANELS TO BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE.
D12	DISCONNECT AND REMOVE EXISTING PNUEMATIC THERMOSTAT AND ALL ASSOCATED TUBING, ETC. DISPOSE OF ALL MATERIAL OFF SITE.
D14	REMOVE BOILER COMPLETELY INCLUDING PIPING, CONTROLS, VALVES, INSULATION, HANGERS, SUPPORTS, ANCHORS, COMBUSTION AIR/FLUE DUCTWORK, ETC. AND DISPOSE OF ALL MATERIALS OFFSITE. EXISTING BASE TO BE REMOVED. REPAIR/PATCH EXISTING ROOF TO MATCH ADJACENT CONSTRUCTION IN SUCH A MANNER THAT IT DOES NOT VOID ANY ROOFING WARRANTIES THE OWNER MAY HAVE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D15	REMOVE BASE MOUNTED PUMP COMPLETELY INCLUDING PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, ANCHORS, ETC. AND DISPOSE OF ALL MATERIALS OFFSITE. EXISTING CONCRETE BASE TO REMAIN IF APPLICABLE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D16	REMOVE FAN POWERED VARIABLE AIR VOLUME BOX COMPLETELY INCLUDING CONTROLS, VALVES, INSULATION, HANGERS, SUPPORTS, ETC. REMOVE DUCTWORK BACK TO POINT INDICATED. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. DISPOSED OF ALL MATERIAL OFF SITE. REFER TO NEW WORK PLAN.
D17	REMOVE FAN POWERED VARIABLE AIR VOLUME BOX COMPLETELY INCLUDING CONTROLS, VALVES, INSULATION, HANGERS, SUPPORTS, ETC. REMOVE DUCTWORK BACK TO POINT INDICATED. EXISTING DIFFUSERS AND RIDGED/FLEX DUCTWORK ASSOCIATED WITH FPB SHALL BE REMOVED. REMOVE RETURN GRILLES IN ROOM SERVED. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. DISPOSE OF ALL MATERIAL OFF SITE. REFER TO NEW WORK PLAN.
D18	EXISTING DUCTWORK, FLEX DUCTWORK AND GRILLES SHALL BE REMOVED. DISPOSE OF MATERIAL OFF SITE.
D20	REMOVE EXHAUST FAN COMPLETELY INCLUDING CONTROLS. DISPOSE OF ALL MATERIALS OFFSITE.
D21	EXISTING AIR COMPRESSOR SERVING PNUEMATIC CONTROLS TO BE REMOVED. ALL PNEUMATIC TUBING TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF OFF-SITE. DISPOSE OF ALL MATERIAL OFF SITE.
D22	EXISTING ROOF MOUNTED INTAKE/REFLIEF VENTILATOR TO REMAIN.
D23	EXISTING DIFFUSERS / GRILLES TO BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE.
D24	REMOVE CABINET UNIT HEATER INCLUDING PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, ANCHORS, ETC. DISPOSED OF OFF SITE. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. REFER TO NEW WORK PLAN.
D32	REMOVE EXISTING EXPANSION TANK. DISPOSE OF ALL MATERIAL OFF SITE
D33	REMOVE EXISTING AIR SEPERATOR. DISPOSE OF ALL MATERIAL OFF SITE
T5	EXISTING UNIT HEATER EQUIPMENT TO REMAIN. ALL EXISTING TEMPERATURE CONTROLS, VALVES, SENSORS, ETC. SHALL BE REMOVED AND REPLACED WITH NEW DDC CONTROLS, VALVES, SENSORS, ETC.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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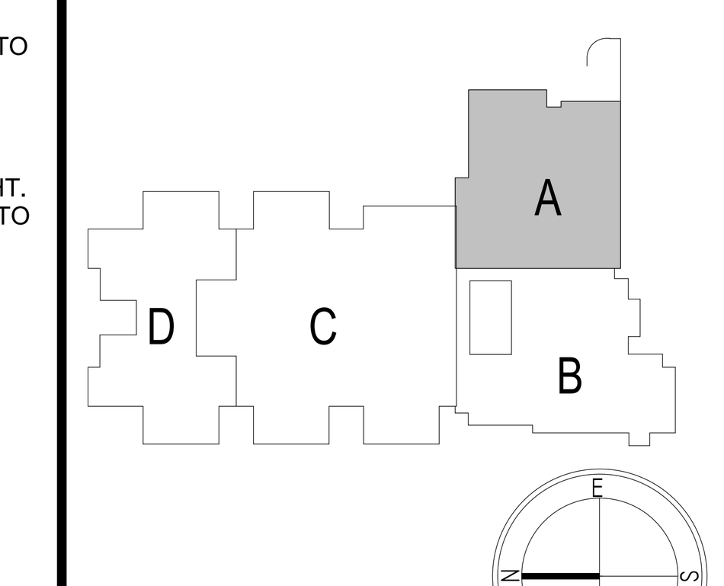
CONSULTANT



KEY PLAN

BID SET

MARK Z. HOPF
REGISTERED
No. PE 12000601
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS

DRAWN BY: CMS

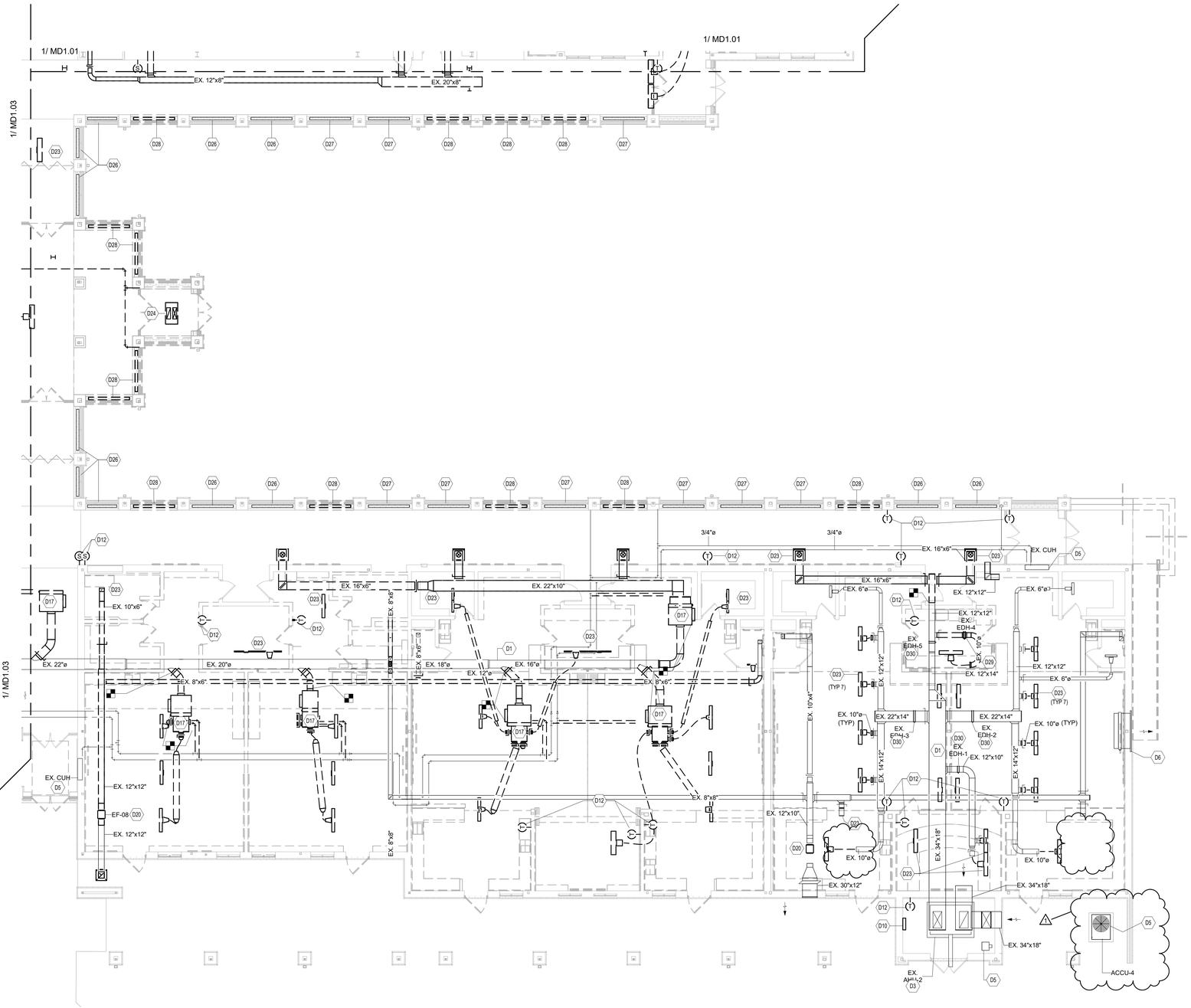
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/18/2025

1ST FLR DEMOLITION PLAN - UNIT A

MD1.01



UNIT B - MECHANICAL DEMOLITION PLAN

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

MECHANICAL DEMOLITION PLAN GENERAL NOTES

A. THE DIVISION 23 CONTRACTOR SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
B. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SAME SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES BY THIS CONTRACTOR.
C. EXISTING OPENINGS WHICH ARE TO BE REUSED SHALL NOT BE REMOVED AND SHALL BE MODIFIED OR ENLARGED AS NEED BE TO SUIT THE NEW SYSTEMS. PROVIDE ALL REQUIRED CUTTING AND PATCHING TO MATCH ADJACENT SURFACES.
D. IF ASBESTOS IS PRESENT CONTACT THE CONSTRUCTION MANAGER. IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPERATE CONTRACT BY THE OWNER.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXISTING DUCTWORK HEIGHT, LOCATION AND SIZE.
F. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT THE OWNER DOES NOT WANT TO CLAIM AN ITEM BEFORE DISPOSING THEM OFF SITE.
G. ALL FLOOR, WALL AND ROOF CUTTING WORK TO BE DONE BY DIVISION 23-HVAC CONTRACTOR UNLESS OTHERWISE NOTED. PATCH ALL FLOOR, WALL AND ROOF OPENINGS THAT ARE NOT REUSED TO MATCH ADJACENT CONSTRUCTION.
H. DIVISION 23 CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILINGS TO DO WORK ABOVE THE CEILINGS AND REINSTALL THOSE CEILINGS AFTER COMPLETION OF WORK. IF ANY CEILING PADS OR GRIDS ARE DAMAGED, THIS CONTRACTOR SHALL REPLACE WITH NEW.

MECHANICAL DEMOLITION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
D1	EXISTING DUCTWORK SHALL REMAIN UNLESS NOTED OTHERWISE.
D3	EXISTING AIR HANDLING UNIT TO REMAIN. INSTALL NEW FILTERS AND CLEAN THE INSIDE OF THE UNITS TO ENSURE PROPER OPERATION.
D5	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
D6	EXISTING RELIEF AIR WALL LOUVER TO BE REMAIN.
D10	EXISTING CONTROL PANELS TO BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE.
D12	DISCONNECT AND REMOVE EXISTING PNUEMATIC THERMOSTAT AND ALL ASSOCATED TUBING, ETC. DISPOSE OF ALL MATERIAL OFF SITE.
D17	REMOVE FAN POWERED VARIABLE AIR VOLUME BOX COMPLETELY INCLUDING CONTROLS, VALVES, INSULATION, HANGERS, SUPPORTS, ETC. REMOVE DUCTWORK BACK TO POINT INDICATED. EXISTING DIFFUSERS AND RIDGED/FLEX DUCTWORK ASSOCIATED WITH FPB SHALL BE REMOVED. REMOVE RETURN GRILLES IN ROOM SERVED. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. DISPOSE OF ALL MATERIAL OFF SITE. REFER TO NEW WORK PLAN.
D20	REMOVE EXHAUST FAN COMPLETELY INCLUDING CONTROLS. DISPOSE OF ALL MATERIALS OFFSITE.
D23	EXISTING DIFFUSERS / GRILLES TO BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE.
D24	REMOVE CABINET UNIT HEATER INCLUDING PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, ANCHORS, ETC. DISPOSED OF OFF SITE. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. REFER TO NEW WORK PLAN.
D26	EXISTING FINNED TUBE TO REMAIN. REFER TO NEW WORK FOR RECONNECTION INTO HEATING HOT WATER SYSTEM.
D27	EXISTING FINNED TUBE TO BE ABANDONED IN PLACE.
D28	EXISTING FINNED TUBE TO REMOVED AND DISPOSED OF OFFSITE.
D29	EXISTING ELECTRIC DUCT HEATER AND ASSOCIATED DUCTWORK SHALL BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D30	EXISTING ELECTRIC DUCT HEATER AND ASSOCIATED DUCTWORK TO REMAIN.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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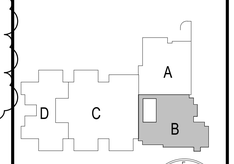


BID SET

PROJECT MANAGER: KRS

DRAWN BY: CMS

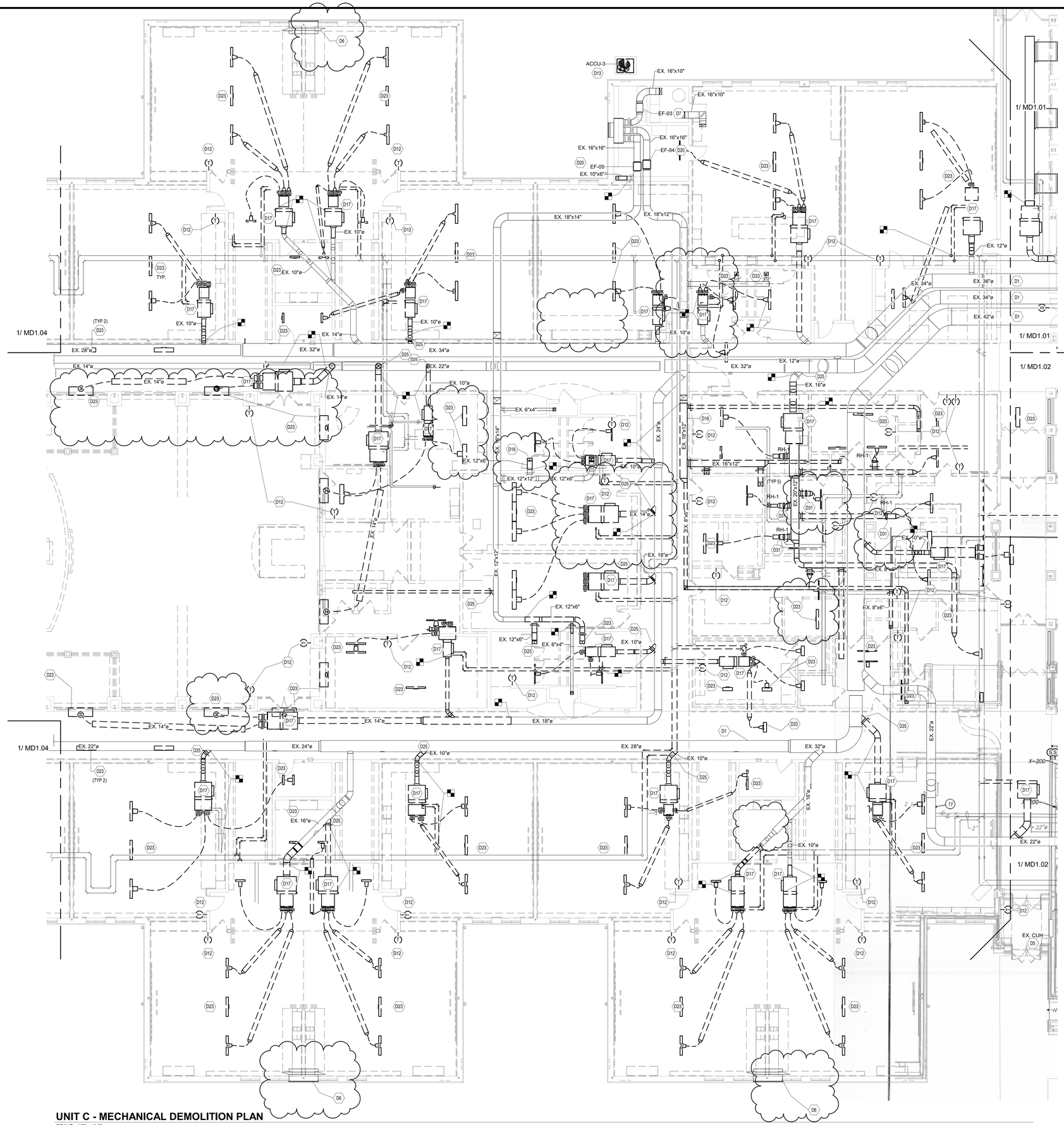
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/18/2025

1ST FLR DEMOLITION PLAN - UNIT B

MD1.02



UNIT C - MECHANICAL DEMOLITION PLAN

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

MECHANICAL DEMOLITION PLAN GENERAL NOTES

A. THE DIVISION 23 CONTRACTOR SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
B. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SAME SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES BY THIS CONTRACTOR.
C. EXISTING OPENINGS WHICH ARE TO BE REUSED SHALL NOT BE REMOVED AND SHALL BE MODIFIED OR ENLARGED AS NEED BE TO SUIT THE NEW SYSTEMS. PROVIDE ALL REQUIRED CUTTING AND PATCHING TO MATCH ADJACENT SURFACES.
D. IF ASBESTOS IS PRESENT CONTACT THE CONSTRUCTION MANAGER. IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPERATE CONTRACT BY THE OWNER.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXISTING DUCTWORK HEIGHT, LOCATION AND SIZE.
F. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT THE OWNER DOES NOT WANT TO CLAIM AN ITEM BEFORE DISPOSING THEM OFF SITE.
G. ALL FLOOR, WALL AND ROOF CUTTING WORK TO BE DONE BY DIVISION 23-HVAC CONTRACTOR UNLESS OTHERWISE NOTED. PATCH ALL FLOOR, WALL AND ROOF OPENINGS THAT ARE NOT REUSED TO MATCH ADJACENT CONSTRUCTION.
H. DIVISION 23 CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILINGS TO DO WORK ABOVE THE CEILINGS AND REINSTALL THOSE CEILINGS AFTER COMPLETION OF WORK. IF ANY CEILING PADS OR GRIDS ARE DAMAGED, THIS CONTRACTOR SHALL REPLACE WITH NEW.

MECHANICAL DEMOLITION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
D1	EXISTING DUCTWORK SHALL REMAIN UNLESS NOTED OTHERWISE.
D5	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
D6	EXISTING RELIEF AIR WALL LOUVER TO BE REMAIN.
D7	EXISTING EXHAUST FAN TO REMAIN. EXISTING DUCTWORK AND DIFFUSERS TO REMAIN UNLESS NOTED OTHERWISE.
D12	DISCONNECT AND REMOVE EXISTING PNUEMATIC THERMOSTAT AND ALL ASSOCATED TUBING, ETC. DISPOSE OF ALL MATERIAL OFF SITE.
D13	REMOVE AIR COOLED CONDENSING UNIT INCLUDING PIPING, CONTROLS, INSULATION, HANGERS, SUPPORTS, ETC. AND DISPOSE OF ALL MATERIAL OFF SITE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D17	REMOVE FAN POWERED VARIABLE AIR VOLUME BOX COMPLETELY INCLUDING CONTROLS, VALVES, INSULATION, HANGERS, SUPPORTS, ETC. REMOVE DUCTWORK BACK TO POINT INDICATED. EXISTING DIFFUSERS AND RIDGED/FLEX DUCTWORK ASSOCIATED WITH FPB SHALL BE REMOVED. REMOVE RETURN GRILLES IN ROOM SERVED. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. DISPOSE OF ALL MATERIAL OFF SITE. REFER TO NEW WORK PLAN.
D18	EXISTING DUCTWORK, FLEX DUCTWORK AND GRILLES SHALL BE REMOVED. DISPOSE OF MATERIAL OFF SITE.
D20	REMOVE EXHAUST FAN COMPLETELY INCLUDING CONTROLS. DISPOSE OF ALL MATERIALS OFFSITE.
D23	EXISTING DIFFUSERS / GRILLES TO BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE.
D25	CAP EXISTNG DUCTWORK AIR TIGHT.
D31	REMOVE DUCT HEATER ALONG WITH ASSOCIATED DUCTWORK AND PIPING. DISPOSE OF ALL MATERIAL OFF SITE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 W 136th St, Carmel, IN 46032

CARMEL CLAY SCHOOLS

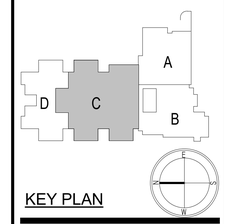
ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM

350 E. NEW YORK ST, INDIANAPOLIS IN 46204

CONSULTANT



BID SET

PROJECT MANAGER: KRS

DRAWN BY: CMS

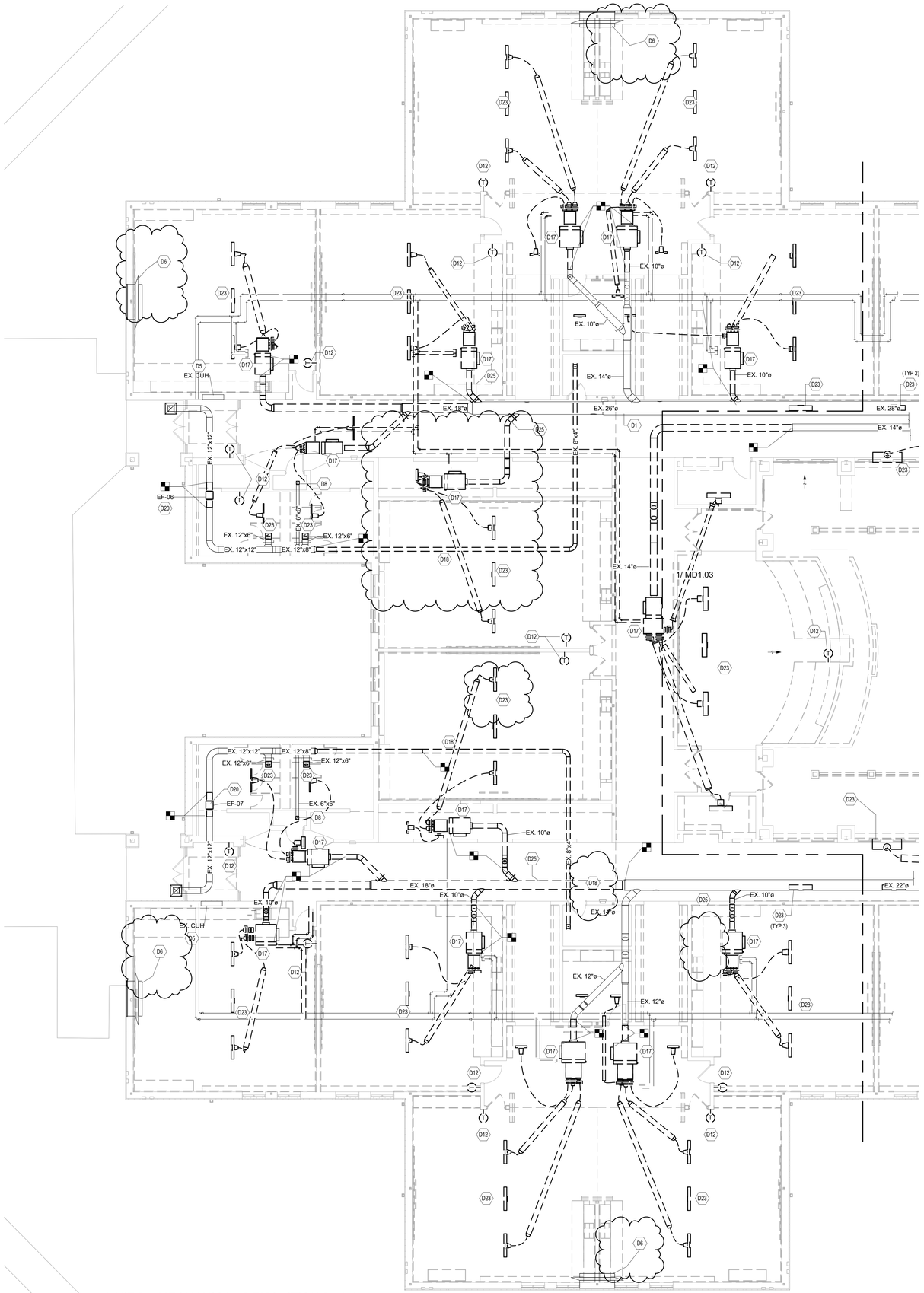
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
2	UPDATED PIPE SIZING	12/18/2025

1ST FLR DEMOLITION PLAN - UNIT C

MD1.03



UNIT D - MECHANICAL DEMOLITION PLAN

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

MECHANICAL DEMOLITION PLAN GENERAL NOTES

A. THE DIVISION 23 CONTRACTOR SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
B. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SAME SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES BY THIS CONTRACTOR.
C. EXISTING OPENINGS WHICH ARE TO BE REUSED SHALL NOT BE REMOVED AND SHALL BE MODIFIED OR ENLARGED AS NEED BE TO SUIT THE NEW SYSTEMS. PROVIDE ALL REQUIRED CUTTING AND PATCHING TO MATCH ADJACENT SURFACES.
D. IF ASBESTOS IS PRESENT CONTACT THE CONSTRUCTION MANAGER. IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPERATE CONTRACT BY THE OWNER.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXISTING DUCTWORK HEIGHT, LOCATION AND SIZE.
F. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT THE OWNER DOES NOT WANT TO CLAIM AN ITEM BEFORE DISPOSING THEM OFF SITE.
G. ALL FLOOR, WALL AND ROOF CUTTING WORK TO BE DONE BY DIVISION 23-HVAC CONTRACTOR UNLESS OTHERWISE NOTED. PATCH ALL FLOOR, WALL AND ROOF OPENINGS THAT ARE NOT REUSED TO MATCH ADJACENT CONSTRUCTION.
H. DIVISION 23 CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILINGS TO DO WORK ABOVE THE CEILINGS AND REINSTALL THOSE CEILINGS AFTER COMPLETION OF WORK. IF ANY CEILING PADS OR GRIDS ARE DAMAGED, THIS CONTRACTOR SHALL REPLACE WITH NEW.

MECHANICAL DEMOLITION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
D1	EXISTING DUCTWORK SHALL REMAIN UNLESS NOTED OTHERWISE.
D5	EXISTING MECHANICAL EQUIPMENT TO REMAIN.
D6	EXISTING RELIEF AIR WALL LOUVER TO BE REMAIN.
D8	EXISTING DIFFUSERS / GRILLES TO REMAIN. CLEAN TO LIKE NEW CONDITION.
D12	DISCONNECT AND REMOVE EXISTING PNUEMATIC THERMOSTAT AND ALL ASSOCATED TUBING, ETC. DISPOSE OF ALL MATERIAL OFF SITE.
D17	REMOVE FAN POWERED VARIABLE AIR VOLUME BOX COMPLETELY INCLUDING CONTROLS, VALVES, INSULATION, HANGERS, SUPPORTS, ETC. REMOVE DUCTWORK BACK TO POINT INDICATED. EXISTING DIFFUSERS AND RIDGED/FLEX DUCTWORK ASSOCIATED WITH FPB SHALL BE REMOVED. REMOVE RETURN GRILLES IN ROOM SERVED. REMOVE PIPING BACK TO THE MAIN AND CAPPED WATER-TIGHT. DISPOSE OF ALL MATERIAL OFF SITE. REFER TO NEW WORK PLAN.
D18	EXISTING DUCTWORK, FLEX DUCTWORK AND GRILLES SHALL BE REMOVED. DISPOSE OF MATERIAL OFF SITE.
D20	REMOVE EXHAUST FAN COMPLETELY INCLUDING CONTROLS. DISPOSE OF ALL MATERIALS OFFSITE.
D23	EXISTING DIFFUSERS / GRILLES TO BE REMOVED. DISPOSE OF ALL MATERIAL OFF SITE.
D25	CAP EXISTNG DUCTWORK AIR TIGHT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

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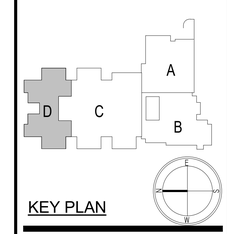


KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: CMS

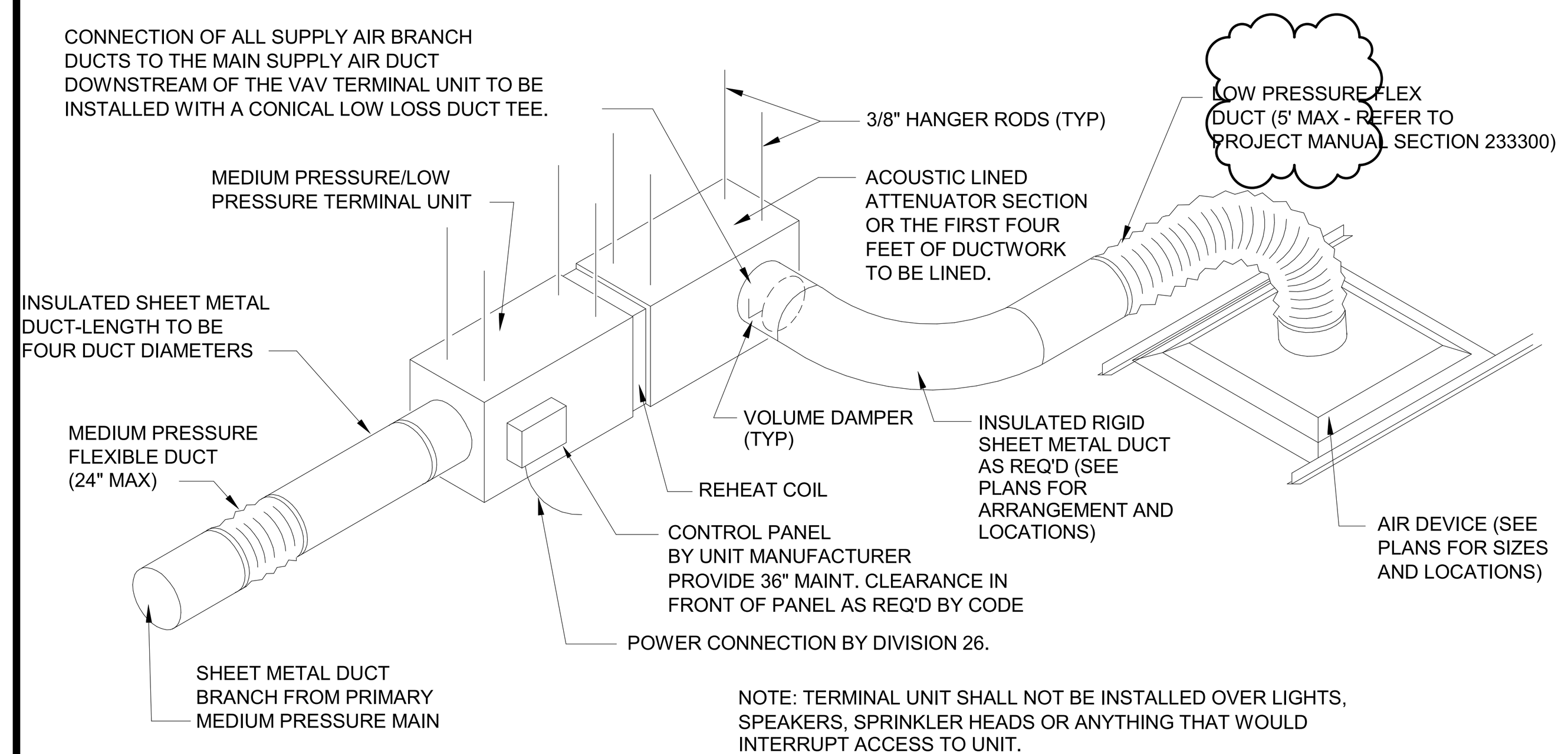
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
2	UPDATED PIPE SIZING	12/18/2025

1ST FLR DEMOLITION PLAN - UNIT D

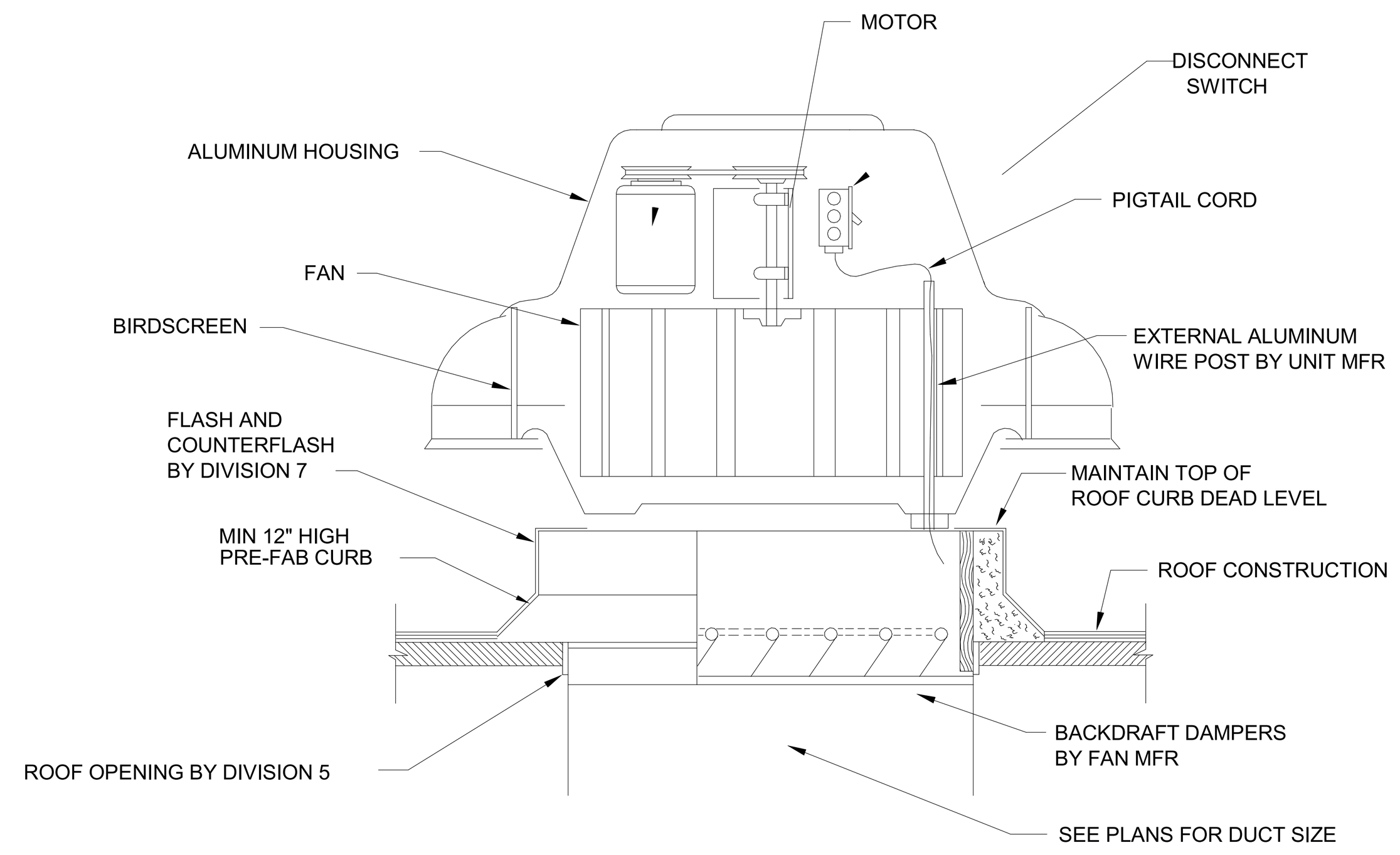
MD1.04



NOTE: TERMINAL UNIT SHALL NOT BE INSTALLED OVER LIGHTS, SPEAKERS, SPRINKLER HEADS OR ANYTHING THAT WOULD INTERRUPT ACCESS TO UNIT.

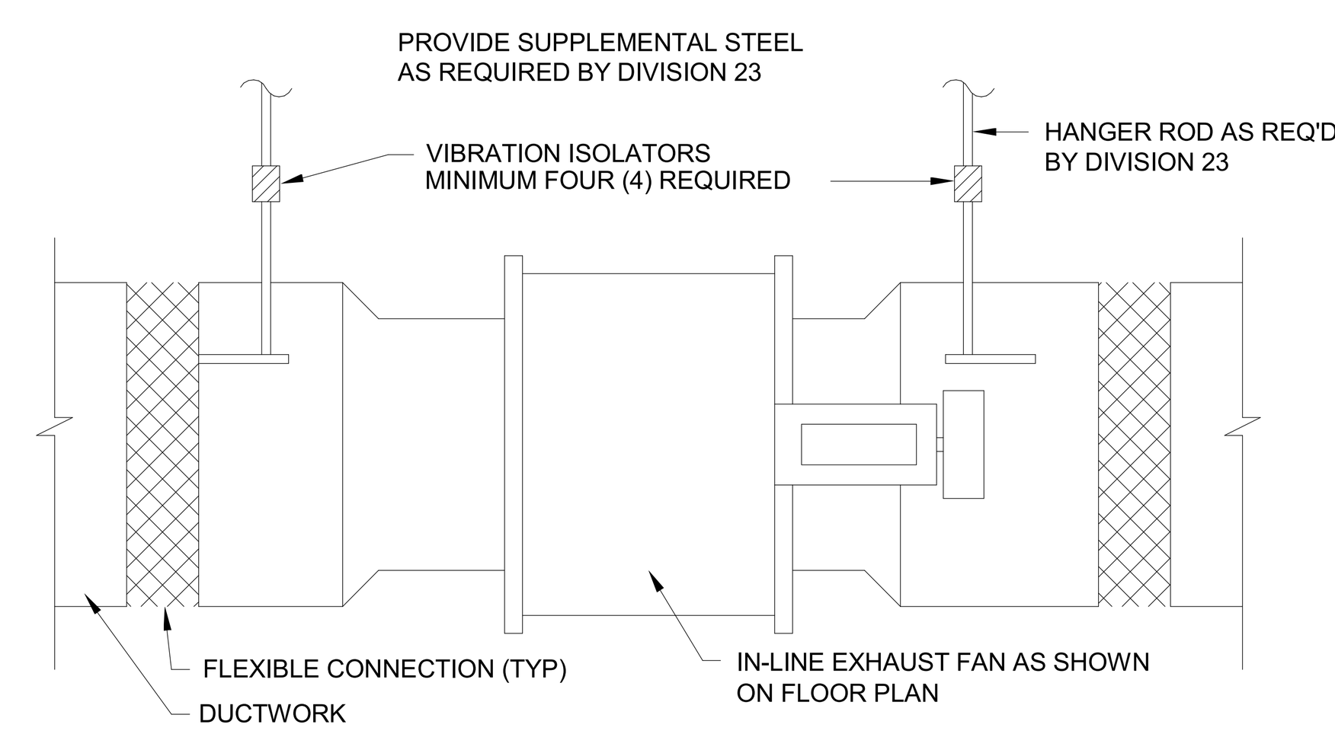
1 TERMINAL REHEAT UNIT INSTALLATION DETAIL

NO SCALE



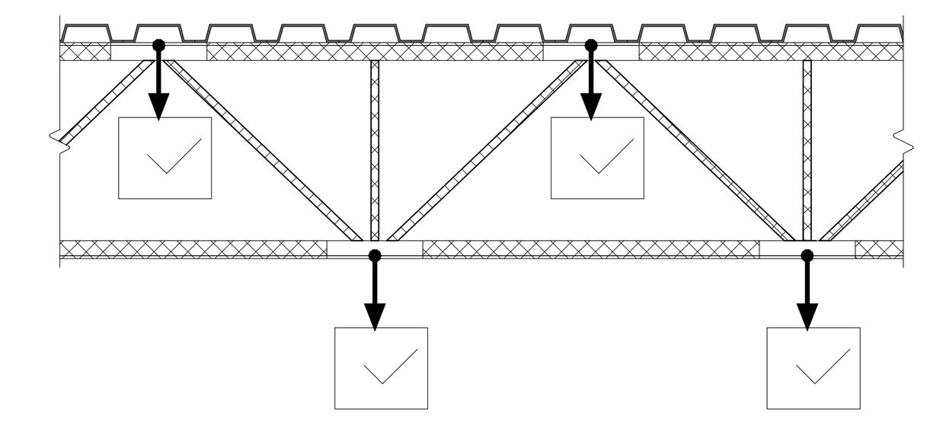
2 ROOF-MOUNTED EXHAUST FAN INSTALLATION DETAIL

NO SCALE



3 IN-LINE EXHAUST FAN MOUNTING DETAIL

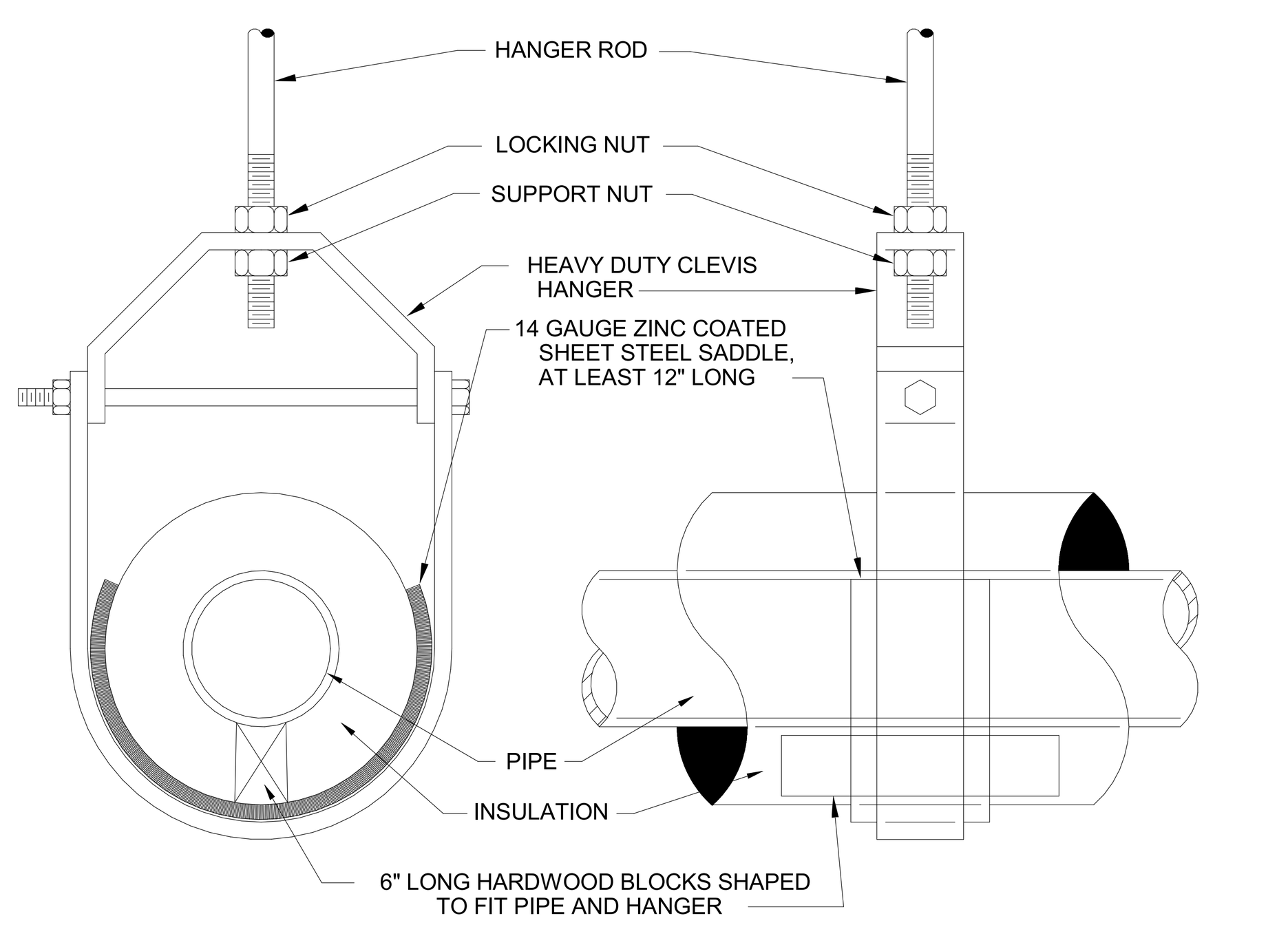
NO SCALE



1. ALL LOADS IN EXCESS OF 100 LBS MAY ONLY BE HUNG FROM THE STEEL JOISTS AT THE LOCATIONS INDICATED WITH A CHECK MARK.
2. LOADS IN EXCESS OF 100 LBS ARE NOT TO BE HUNG FROM THE CROSS-HATCHED REGIONS UNLESS ADDITIONAL WEB REINFORCING MEMBERS ARE INSTALLED PER THE STRUCTURAL DRAWINGS.
3. THIS SECTION APPLIES TO LOADS HUNG FROM BOTH NEW JOISTS AND FROM EXISTING JOISTS.
4. SPACE HANGERS OUT SO THAT NOT ALL HANGERS ARE ATTACHED TO THE SAME JOIST.

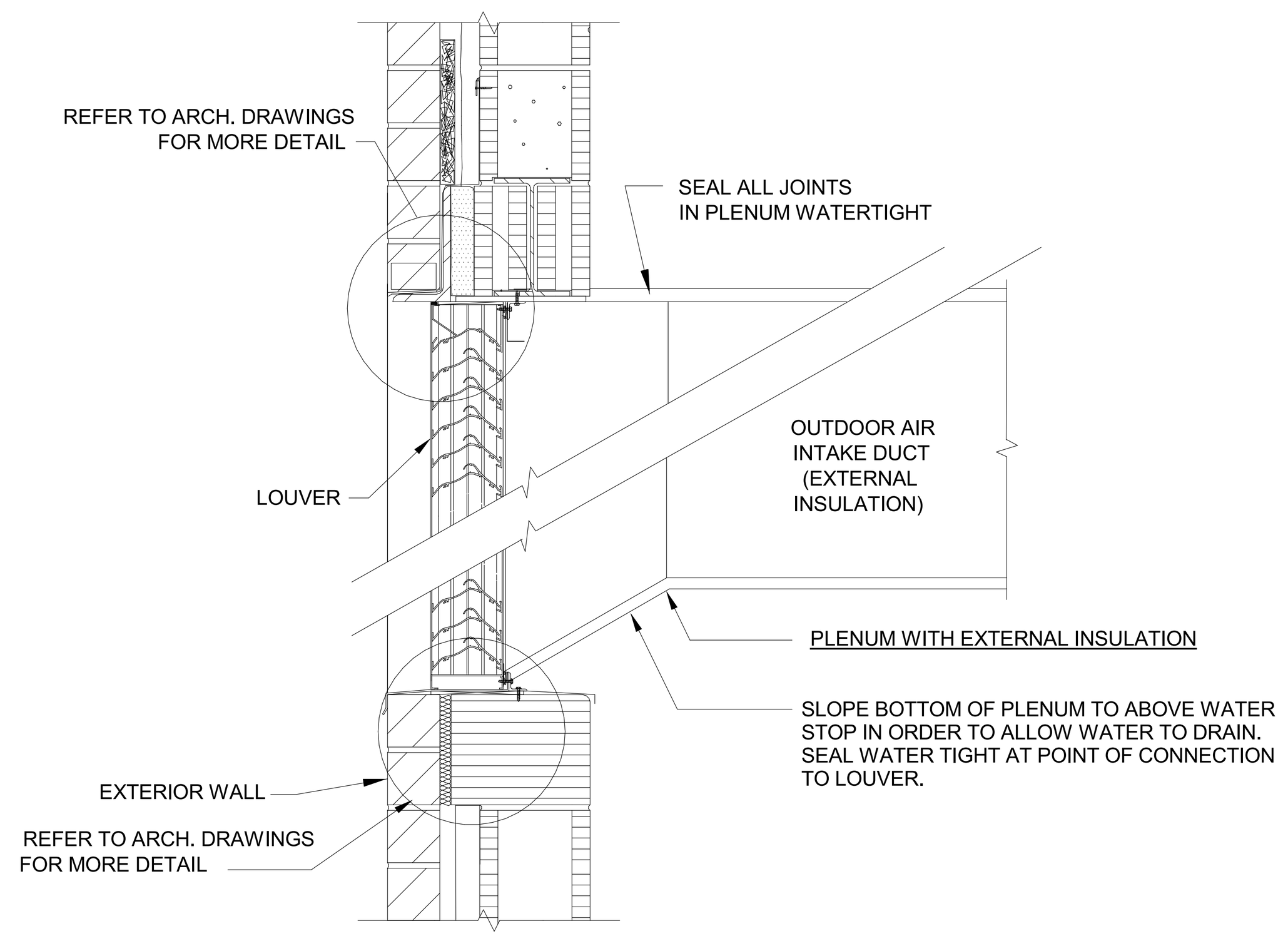
4 ACCEPTABLE LOCATION TO HANG LOADS FROM STEEL JOISTS

NO SCALE



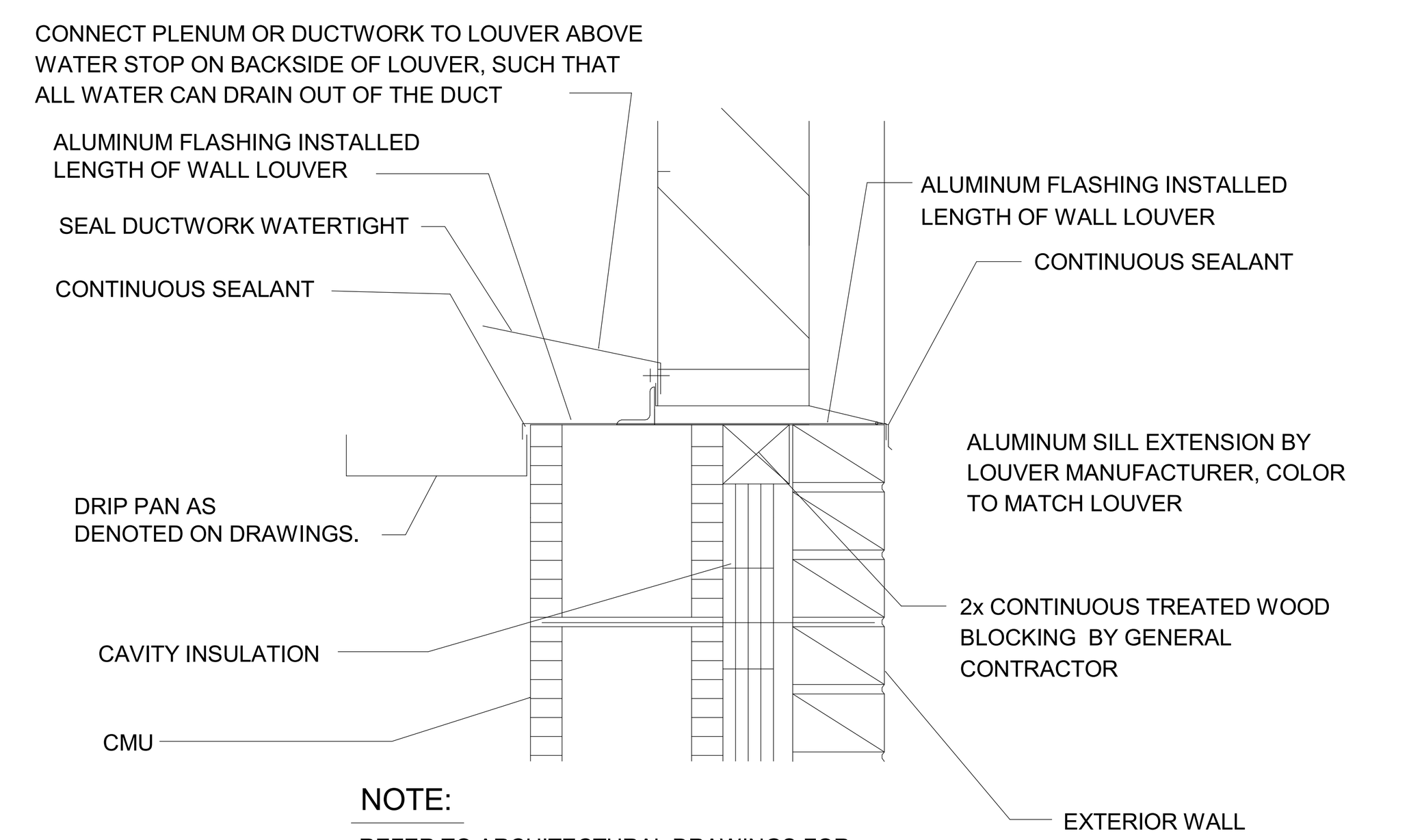
5 PIPE HANGERS (6" AND SMALLER)

NO SCALE



6 WALL LOUVER DUCT CONNECTION DETAIL

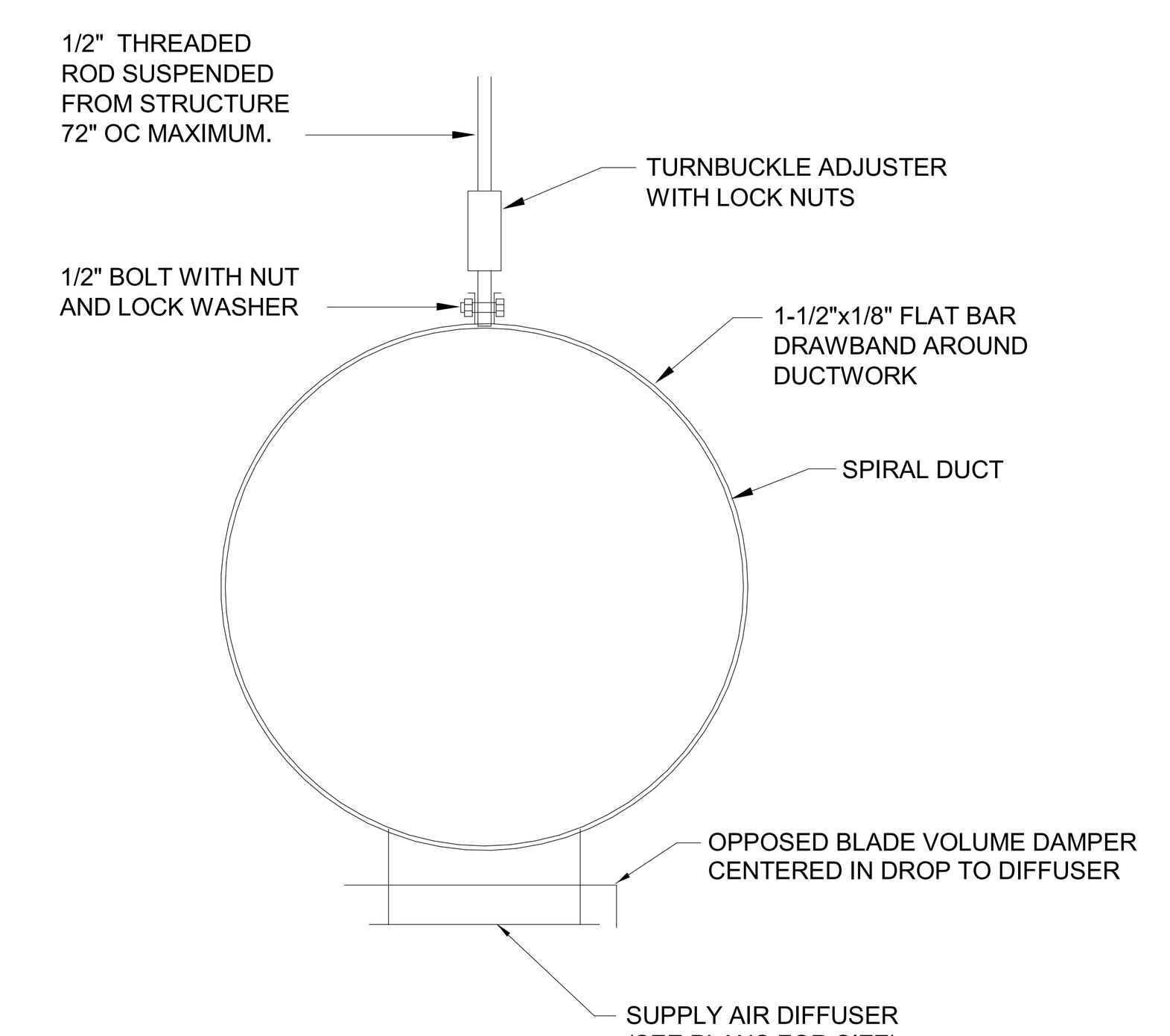
NO SCALE



NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION DETAILS OF EXTERIOR WALL LOUVERS.

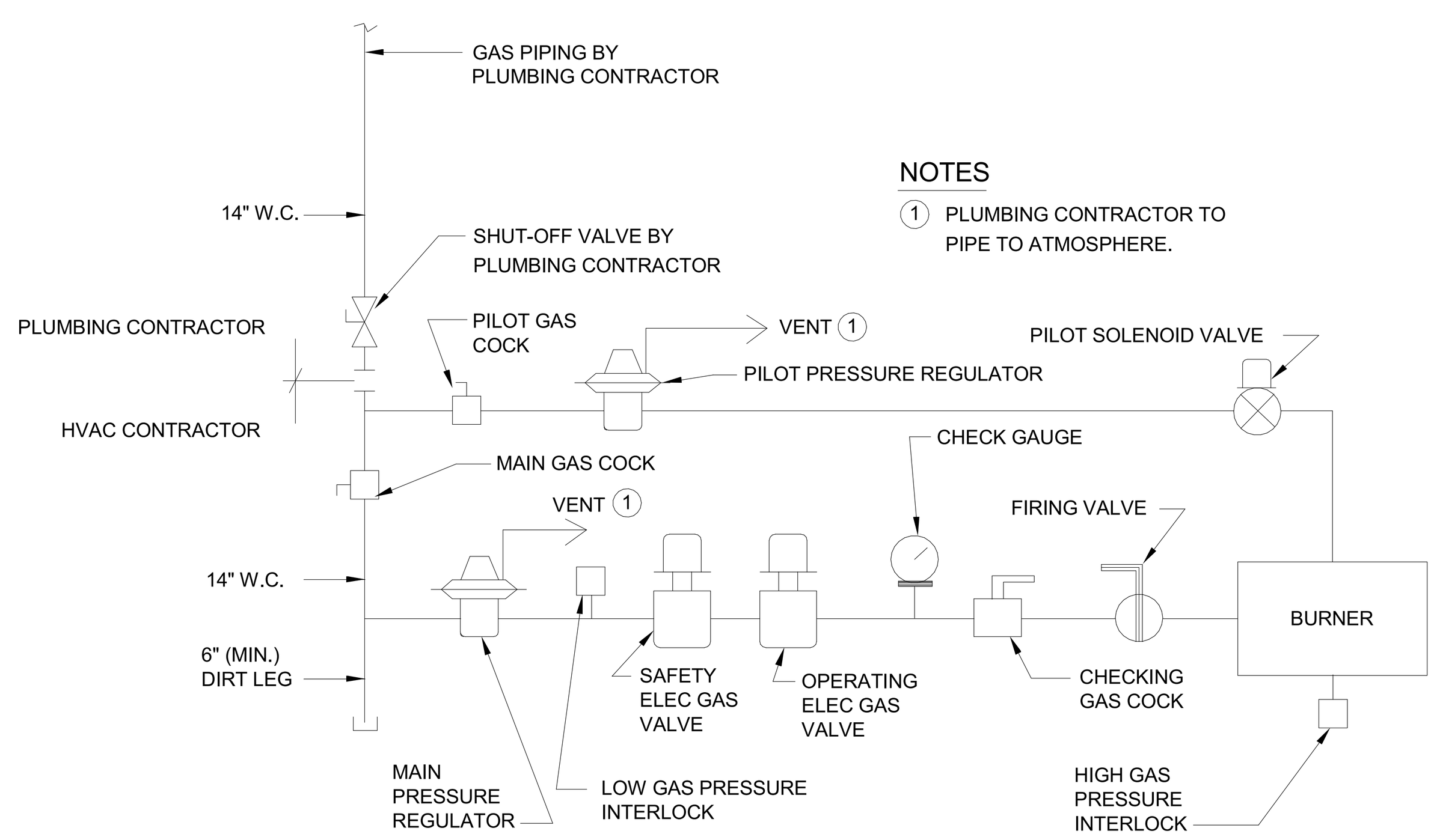
7 WALL LOUVER DUCT CONNECTION DETAIL

NO SCALE



8 SUPPLY AIR DUCT DETAIL

NO SCALE



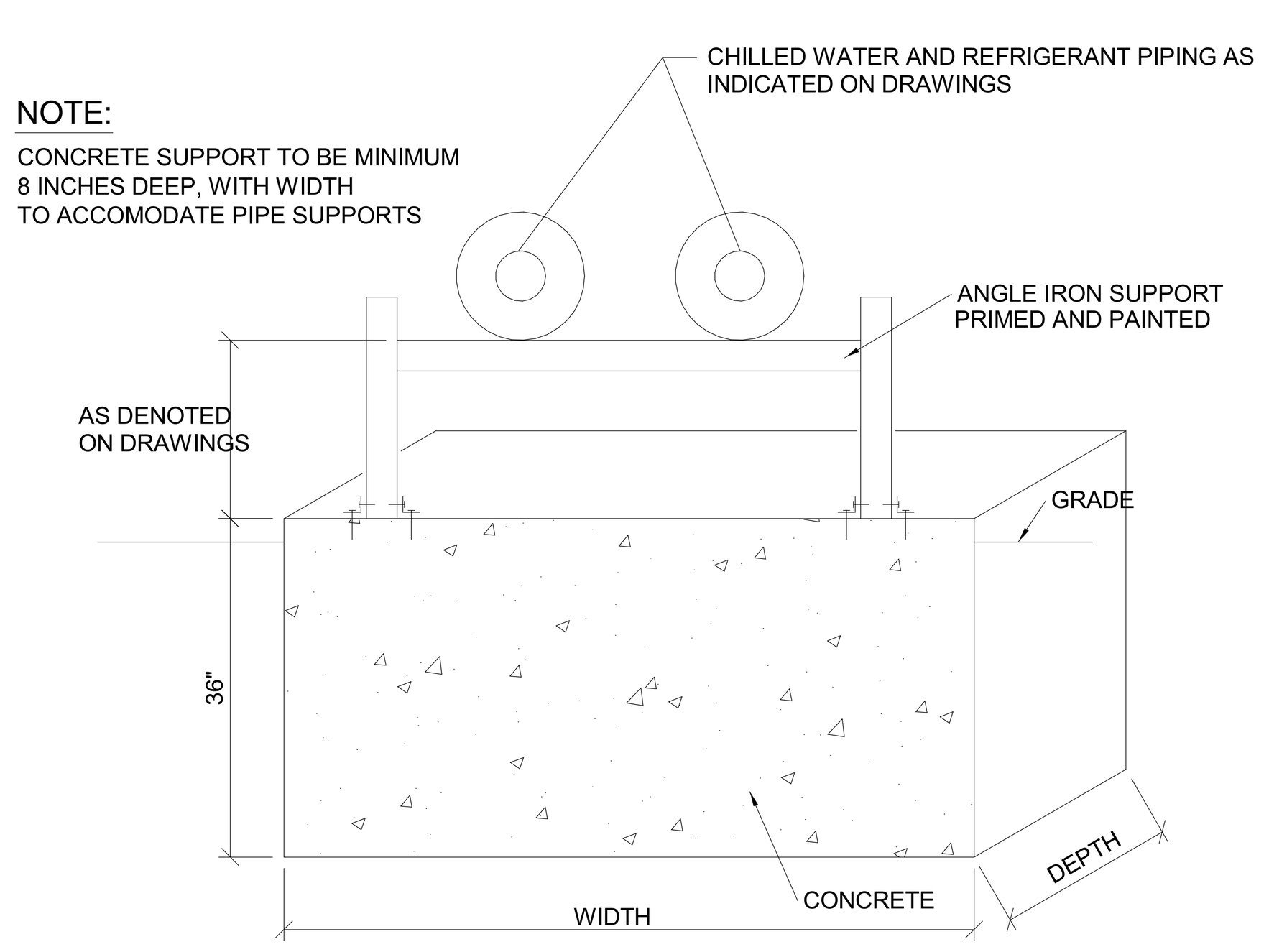
NOTES
1. PLUMBING CONTRACTOR TO PIPE TO ATMOSPHERE.

9 BOILER GAS TRAIN PIPING DIAGRAM

(FM APPROVED)

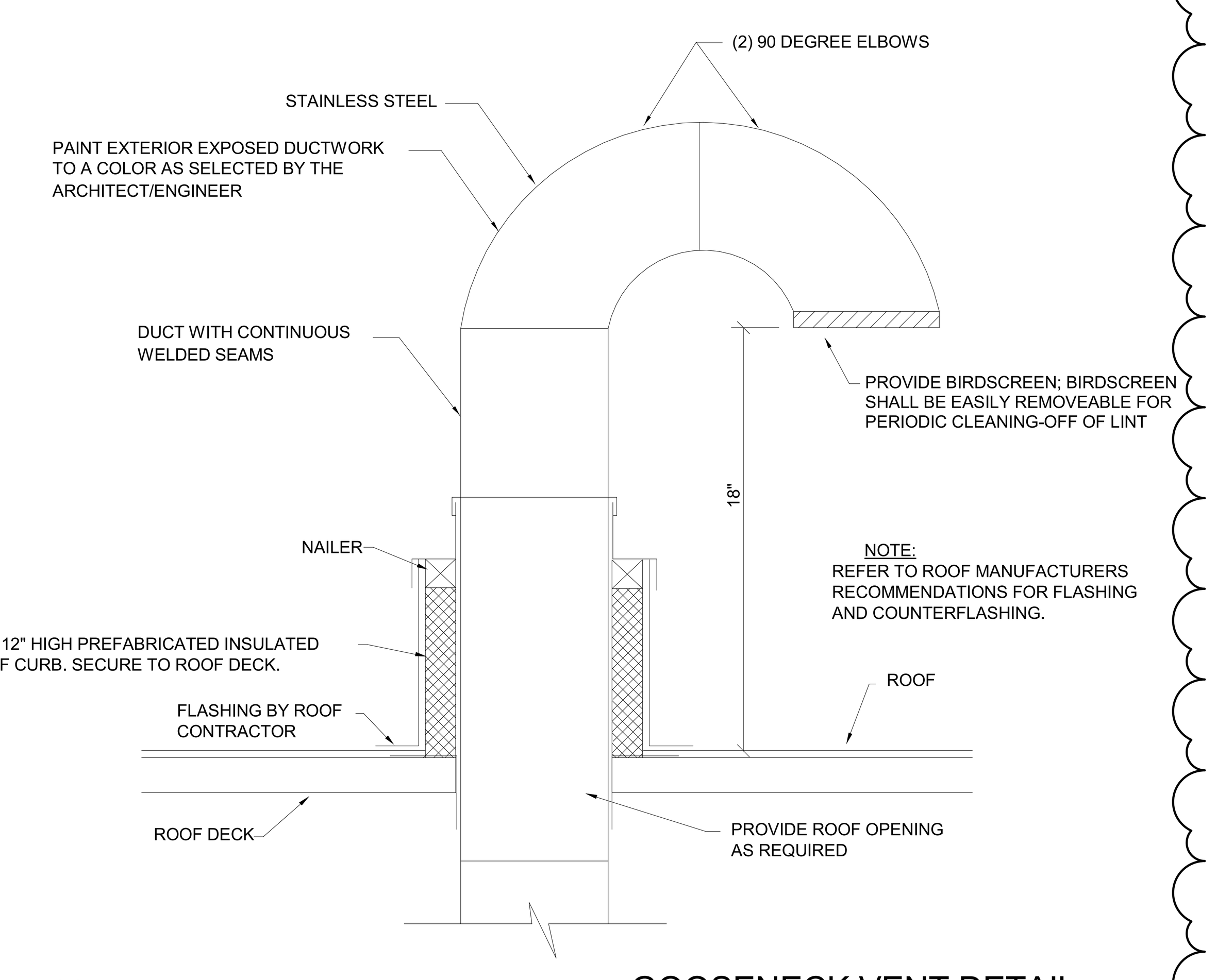
NO SCALE

NOTE:
CONCRETE SUPPORT TO BE MINIMUM 8 INCHES DEEP, WITH WIDTH TO ACCOMODATE PIPE SUPPORTS



10 OUTDOOR PIPING SUPPORT DETAIL

NO SCALE



11 GOOSENECK VENT DETAIL

NO SCALE

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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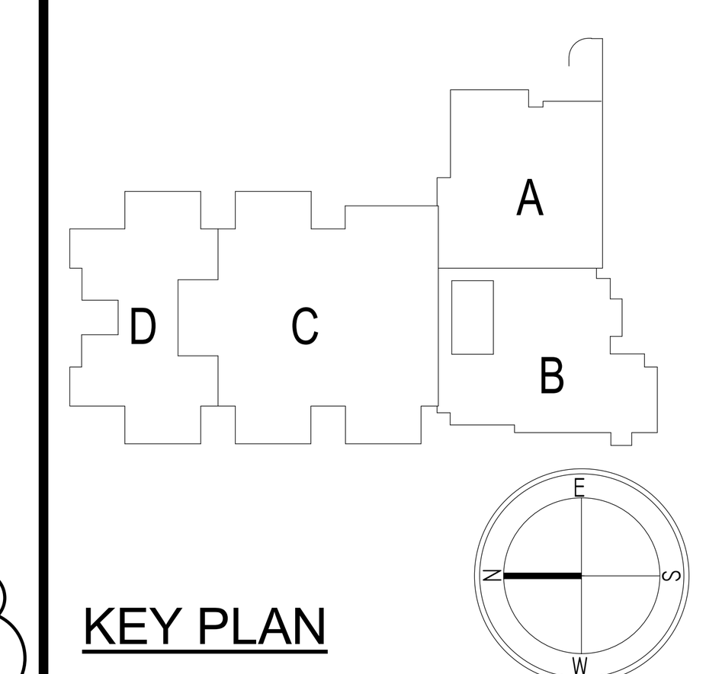

KEY PLAN

BID SET

MARK Z. HOPF REGISTERED No. PE 12000601 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS
DRAWN BY: CMS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
2	UPDATED PIPE SIZING	12/18/2025

MECHANICAL DETAILS

M5.03

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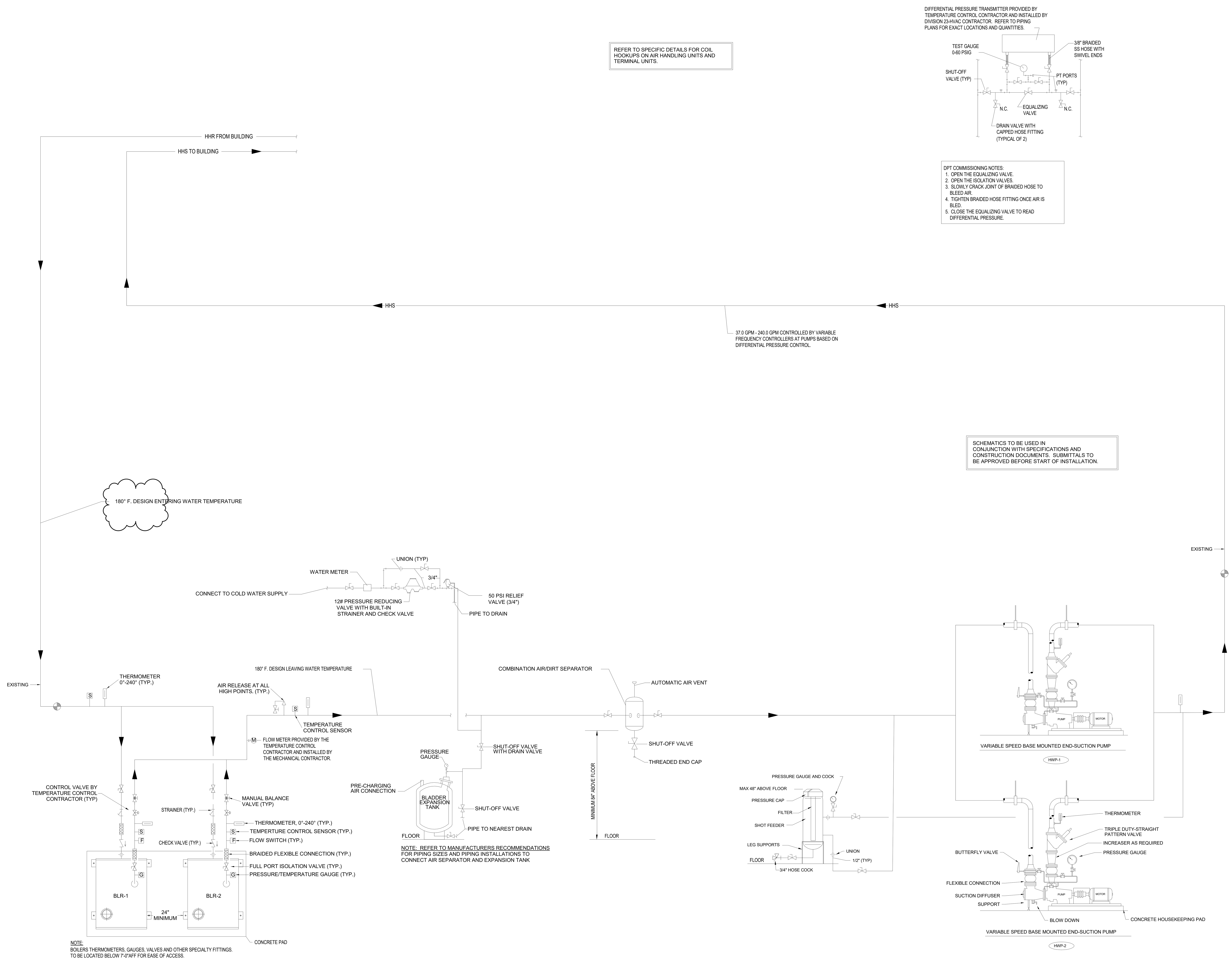

REFER TO SPECIFIC DETAILS FOR COIL HOOKUPS ON AIR HANDLING UNITS AND TERMINAL UNITS.
DIFFERENTIAL PRESSURE TRANSMITTER PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY DIVISION 23-HVAC CONTRACTOR. REFER TO PIPING PLANS FOR EXACT LOCATIONS AND QUANTITIES.
TEST GAUGE 0-60 PSIG
3/8" BRAIDED SS HOSE WITH SWIVEL ENDS
SHUT-OFF VALVE (TYP)
PT PORTS (TYP)
N.C.
EQUALIZING VALVE
N.C.
DRAIN VALVE WITH CAPPED HOSE FITTING (TYPICAL OF 2)
DPT COMMISSIONING NOTES:
1. OPEN THE EQUALIZING VALVE.
2. OPEN THE ISOLATION VALVES.
3. SLOWLY CRACK JOINT OF BRAIDED HOSE TO BLEED AIR.
4. TIGHTEN BRAIDED HOSE FITTING ONCE AIR IS BLED.
5. CLOSE THE EQUALIZING VALVE TO READ DIFFERENTIAL PRESSURE.
HHR FROM BUILDING
HHS TO BUILDING
HHS
HHS
37.0 GPM - 240.0 GPM CONTROLLED BY VARIABLE FREQUENCY CONTROLLERS AT PUMPS BASED ON DIFFERENTIAL PRESSURE CONTROL.
SCHEMATICS TO BE USED IN CONJUNCTION WITH SPECIFICATIONS AND CONSTRUCTION DOCUMENTS. SUBMITTALS TO BE APPROVED BEFORE START OF INSTALLATION.
180° F. DESIGN ENTERING WATER TEMPERATURE
EXISTING
UNION (TYP)
WATER METER
3/4"
CONNECT TO COLD WATER SUPPLY
12# PRESSURE REDUCING VALVE WITH BUILT-IN STRAINER AND CHECK VALVE
50 PSI RELIEF VALVE (3/4")
PIPE TO DRAIN
180° F. DESIGN LEAVING WATER TEMPERATURE
COMBINATION AIR/DIRT SEPARATOR
AUTOMATIC AIR VENT
EXISTING
THERMOMETER 0°-240° (TYP.)
AIR RELEASE AT ALL HIGH POINTS. (TYP.)
TEMPERATURE CONTROL SENSOR
FLOW METER PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
SHUT-OFF VALVE WITH DRAIN VALVE
SHUT-OFF VALVE
THREADED END CAP
MINIMUM 84" ABOVE FLOOR
FLOOR
PRESSURE GAUGE
PRE-CHARGING AIR CONNECTION
BLADDER EXPANSION TANK
SHUT-OFF VALVE
PIPE TO NEAREST DRAIN
FLOOR
NOTE: REFER TO MANUFACTURERS RECOMMENDATIONS FOR PIPING SIZES AND PIPING INSTALLATIONS TO CONNECT AIR SEPARATOR AND EXPANSION TANK
CONTROL VALVE BY TEMPERATURE CONTROL CONTRACTOR (TYP)
MANUAL BALANCE VALVE (TYP)
STRAINER (TYP.)
THERMOMETER, 0°-240° (TYP.)
TEMPERTURE CONTROL SENSOR (TYP.)
CHECK VALVE (TYP.)
FLOW SWITCH (TYP.)
BRAIDED FLEXIBLE CONNECTION (TYP.)
FULL PORT ISOLATION VALVE (TYP.)
PRESSURE/TEMPERATURE GAUGE (TYP.)
BLR-1
BLR-2
24" MINIMUM
CONCRETE PAD
NOTE:
BOILERS THERMOMETERS, GAUGES, VALVES AND OTHER SPECIALTY FITTINGS. TO BE LOCATED BELOW 7'-0"AFF FOR EASE OF ACCESS.
PRESSURE GAUGE AND COCK
MAX 48" ABOVE FLOOR
PRESSURE CAP
FILTER
SHOT FEEDER
LEG SUPPORTS
FLOOR
3/4" HOSE COCK
UNION
1/2" (TYP)
PUMP
MOTOR
VARIABLE SPEED BASE MOUNTED END-SUCTION PUMP
HWP-1
THERMOMETER
TRIPLE DUTY-STRAIGHT PATTERN VALVE
INCREASER AS REQUIRED
PRESSURE GAUGE
BUTTERFLY VALVE
FLEXIBLE CONNECTION
SUCTION DIFFUSER
SUPPORT
BLOW DOWN
CONCRETE HOUSEKEEPING PAD
VARIABLE SPEED BASE MOUNTED END-SUCTION PUMP
HWP-2

VARIABLE-PRIMARY HEATING WATER PIPING SCHEMATIC

NO SCALE

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CONSULTANT

KEY PLAN

A B C D

BID SET

MARK Z. HOPF REGISTERED No. PE 12000601 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS
DRAWN BY: CMS
PROJECT NUMBER: 222033.00
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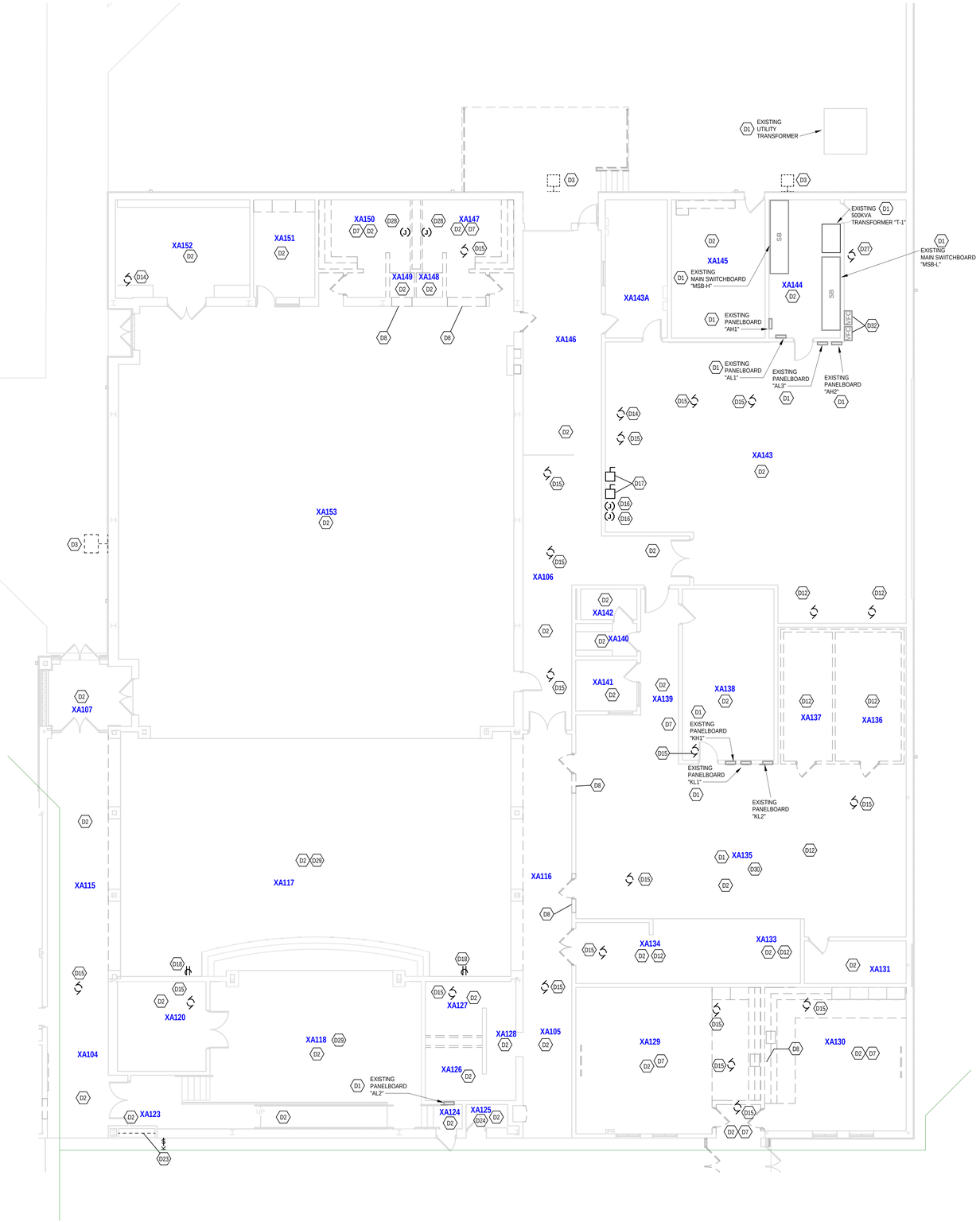
2	UPDATED PIPE SIZING	12/18/2025

HEATING WATER SCHEMATIC

M5.05



UNIT A - FIRST FLOOR ELECTRICAL DEMOLITION PLAN

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

GENERAL NOTES - DEMOLITION

1. REFER TO ELECTRICAL SPECIFICANTS SECTIONS 260005 "ELECTRICAL DEMOLITION" FOR ADDITIONAL REQUIREMNETS THAT APPLY TO THIS DRAWING SHEET.
2. REMOVE ELECTRICAL EQUIPMENT COMPLETE.
3. ALL EXISTING FIRE ALARM DEVICES ARE TO BE DISCONNECTED AND REMOVED.
4. DISCONNECT AND REMOVE ALL EXISTING EXIT SIGNS AND DISPOSE OF PROPERLY PER SPECIFICATIONS.
5. ALL EXISTING DUPLEX RECEPTACLES INSIDE AND OUTSIDE THE BUILDING THAT ARE NOT PART OF THE NEW CONSTRUCTION OR RENOVATED AREAS ARE TO BE REPLACED WITH NEW DEVICES AND COVER PLATES.
6. ALL EXISTING DUPLEX RECEPTACLES AND ELECTRICAL WORK IN EXISTING WALLS TO BE DEMOLISHED SHALL BE REMOVED AND REWORKED TO MAINTAIN CIRCUITRY CONTINUITY.

KEYNOTES

D1	EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE.
D2	DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND LIGHT SWITCHES IN THIS ROOM. EXISTING LIGHTING CIRCUITS ARE TO REMAIN IN PLACE FOR NEW LIGHTING. REFER TO THE "E4" DRAWING SHEETS FOR THE ADDITIONAL REQUIREMENTS.
D3	DISCONNECT AND REMOVE EXISTING EXTERIOR LIGHT FIXTURE AT THIS LOCATION. REFER TO ELECTRICAL SITE PLAN SHEET "E2.01" AND THE "E4" DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D7	DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES MOUNTED IN THE WALLS OF THIS ROOM.
D8	DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES IN THIS PORTION OF THE WALL THAT IS TO BE REMOVED.
D12	DISCONNECT EXISTING KITCHEN EQUIPMENT THAT IS TO BE REMOVED. EXISTING WIRING AND CONDUIT MAY REMAIN IN PLACE FOR NEW EQUIPMENT. REFER TO THE FOOD SERVICE DRAWING AND THE ELECTRICAL KITCHEN PLAN DRAWING SHEET "E5.05" FOR ADDITIONAL REQUIREMENTS.
D14	DISCONNECT EXISTING MECHANICAL UNIT AT THIS LOCATION. EXISTING CIRCUITRY IS TO REMAIN IN PLACE FOR THE NEW MECHANICAL UNIT. REFER TO THE "E5" POWER PLAN DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D15	DISCONNECT EXISTING MECHANICAL UNIT AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE.
D16	DISCONNECT EXISTING MECHANICAL CONTROL PANEL AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE. EXISTING CIRCUITY IS TO REMAIN.
D17	DISCONNECT AND REMOVE EXISTING PUMP DISCONNECT SWITCH AT THIS LOCATION. EXISTING CIRCUITY MAY REMAIN IN PLACE FOR NEW PUMP VFC. REFER TO THE "E5" POWER PLAN DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D18	DISCONNECT AND REMOVE EXISTING DUPLEX RECEPTACLE MOUNTED UP HIGH FOR THE TELEVISION MONITOR. REMOVE WIRING BACK TO ITS SOURCE.
D23	DISCONNECT AND REMOVE EXISTING DISPLAY CASE LIGHT FIXTURE AND LIGHT SWITCH. EXISTING CIRCUIT IS TO REMAIN FOR NEW LIGHT FIXTURE. REFER TO THE "E4" DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D24	DISCONNECT AND REMOVE POWER FROM EXISTING TECHNOLOGY RACKS IN THIS ROOM. EXISTING TECHNOLOGY RACKS ARE TO BE REWIRED TO NEW STANDBY PANELBOARD. REFER TO THE "E5" SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.
D27	DISCONNECT EXISTING AIR COMPRESSOR AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE.
D28	DISCONNECT AND REMOVE POWER FOR HAND DRYER AT THIS LOCATION.
D29	EXISTING THEATRICAL LIGHTING AND SURFACE RACEWAY ASSOCIATED WITH THE THEATRICAL LIGHTING IN THIS ROOM IS TO BE DISCONNECTED, REMOVED, AND STORED WHILE THE OLD CEILING IS BEING REMOVED. THEN REINSTALLED IN THE SAME LOCATION AFTER THE NEW CEILING IS INSTALLED.
D30	DISCONNECT EXISTING KITCHEN HOOD MOTORS AT THIS LOCATON. REMOVE WIRING BACK TO ITS SOURCE.
D32	EXISTING MECHANICAL VFC IS TO REMAIN. REFER TO DRAWING SHEET "ES.01" FOR NEW WIRING REQUIREMENTS FROM EXISTING VFC TO NEWEXISTING PUMP.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 West 136th Street, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT

FANNING HOWEY

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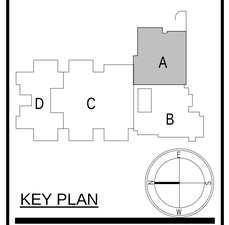

KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: RDR

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

UNIT A - FIRST FLOOR ELECTRICAL DEMOLITION PLAN

ED.01

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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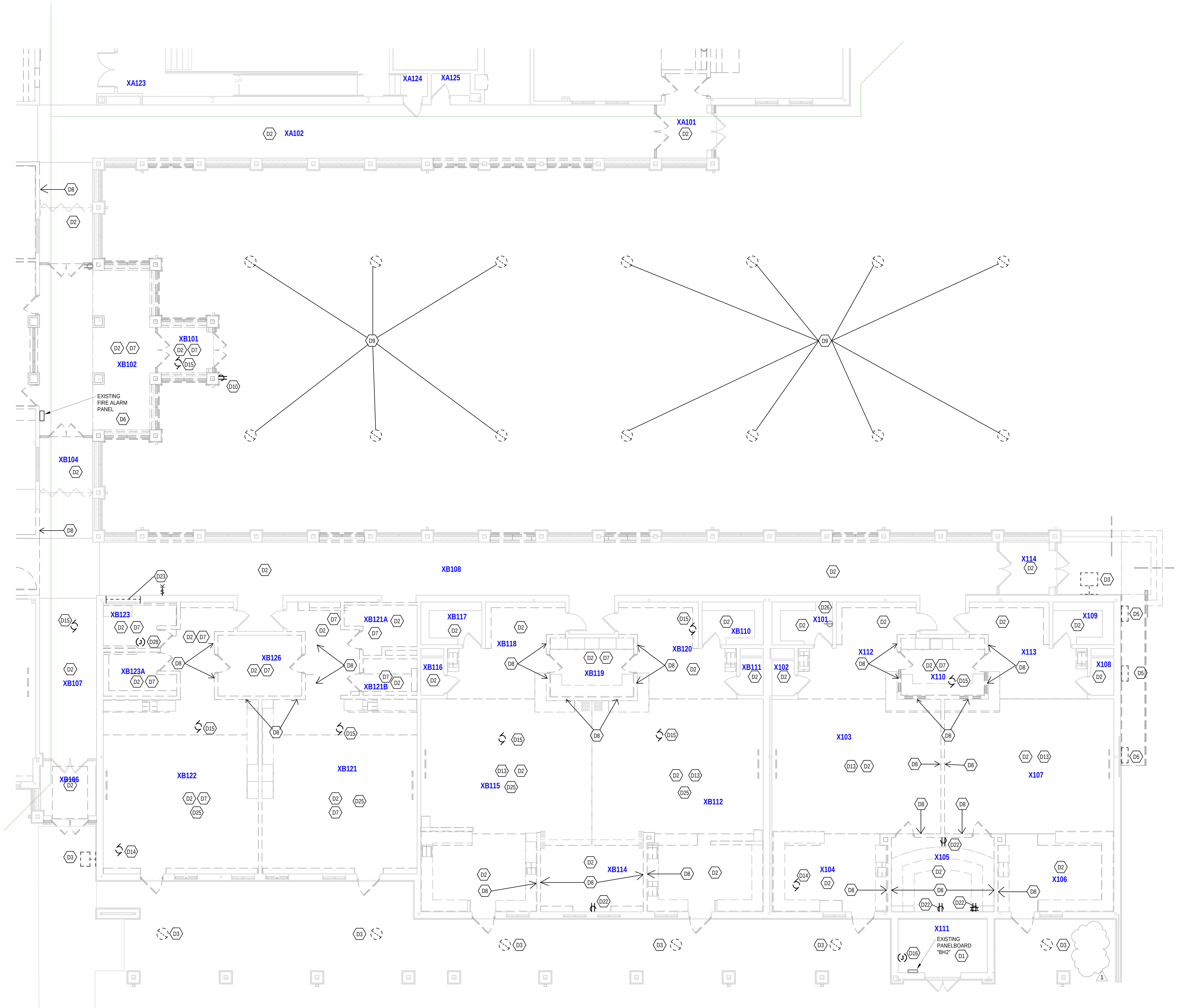
CONSULTANT

GENERAL NOTES - DEMOLITION

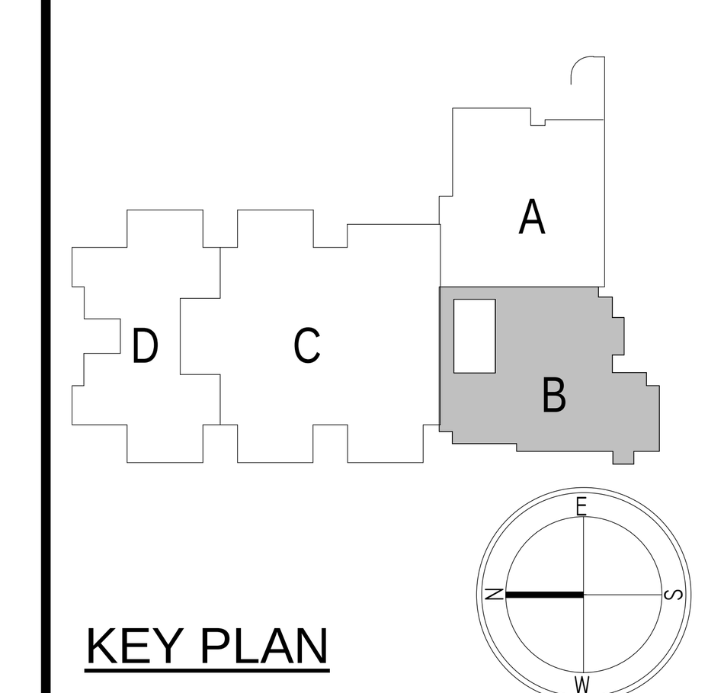
1. REFER TO ELECTRICAL SPECIFICANTS SECTIONS 260005 "ELECTRICAL DEMOLITION" FOR ADDITIONAL REQUIREMNETS THAT APPLY TO THIS DRAWING SHEET.
2. REMOVE ELECTRICAL EQUIPMENT COMPLETE.
3. ALL EXISTING FIRE ALARM DEVICES ARE TO BE DISCONNECTED AND REMOVED.
4. DISCONNECT AND REMOVE ALL EXISTING EXIT SIGNS AND DISPOSE OF PROPERLY PER SPECIFICATIONS.
5. ALL EXISTING DUPLEX RECEPTACLES INSIDE AND OUTSIDE THE BUILDING THAT ARE NOT PART OF THE NEW CONSTRUCTION OR RENOVATED AREAS ARE TO BE REPLACED WITH NEW DEVICES AND COVER PLATES.
6. ALL EXISTING DUPLEX RECEPTACLES AND ELECTRICAL WORK IN EXISTING WALLS TO BE DEMOLISHED SHALL BE REMOVED AND REWORKED TO MAINTAIN CIRCUITRY CONTINUITY.

KEYNOTES	
D1	EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE.
D2	DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND LIGHT SWITCHES IN THIS ROOM. EXISTING LIGHTING CIRCUITS ARE TO REMAIN IN PLACE FOR NEW LIGHTING. REFER TO THE "E4" DRAWING SHEETS FOR THE ADDITIONAL REQUIREMENTS.
D3	DISCONNECT AND REMOVE EXISTING EXTERIOR LIGHT FIXTURE AT THIS LOCATION. REFER TO ELECTRICAL SITE PLAN SHEET "E2.01" AND THE "E4" DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D5	DISCONNECT AND REMOVE EXISTING STEP LIGHT FIXTURE AT THIS LOCATION..
D6	DISCONNECT AND REMOVE EXISTING FIRE ALARM PANEL AT THIS LOCATION AS WELL AS ALL FIRE ALARM DEVICES AND CABLING BEING FED FROM THIS PANEL.
D7	DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES MOUNTED IN THE WALLS OF THIS ROOM.
D8	DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES IN THIS PORTION OF THE WALL THAT IS TO BE REMOVED.
D9	DISCONNECT AND REMOVE EXISTING EXTERIOR LIGHT BOLLARD AT THIS LOCATION, AS WELL AS CONCRETE BASE, CONDUIT AND WIRING BACK TO THE PANELBOARD.
D10	DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICE AT THIS LOCATION, AS WELL AS CONDUIT AND WIRING.
D13	EXISTING DUPLEX RECEPTACLE MOUNTED IN THE CEILING FOR THE VIDEO PROJECTOR IS TO BE REMOVED FROM THE CEILING TILE AND SUPPORTED ABOVE UNTIL THE NEW CEILING IS IN PLACE, THEN IS TO BE REMOUNTED IN THE NEW CEILING IN THE APPROXIMATE SAME LOCATION.
D14	DISCONNECT EXISTING MECHANICAL UNIT AT THIS LOCATION. EXISTING CIRCUITRY IS TO REMAIN IN PLACE FOR THE NEW MECHANICAL UNIT. REFER TO THE "E5" POWER PLAN DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D15	DISCONNECT EXISTING MECHANICAL UNIT AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE.
D16	DISCONNECT EXISTING MECHANICAL CONTROL PANEL AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE. EXISTING CIRCUITY IS TO REMAIN.
D22	DISCONNECT AND REMOVE DUPLEX RECEPTACLE AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE.
D23	DISCONNECT AND REMOVE EXISTING DISPLAY CASE LIGHT FIXTURE AND LIGHT SWITCH. EXISTING CIRCUIT IS TO REMAIN FOR NEW LIGHT FIXTURE. REFER TO THE "E4" DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D25	DISCONNECT AND REMOVE ALL EXISTING FLOOR BOX DEVICES IN THIS ROOM AND PULL EXISTING WIRES AND CABLING BACK TO ITS SOURCE. PROVIDE A BLANK COVER PLATE ON THE EXISTING BACKBOXES THAT ARE TO REMAIN.
D26	DISCONNECT AND REMOVE POWER FROM EXISTING TECHNOLOGY RACKS AT THIS LOCATION. REMOVE POWER BACK TO ITS SOURCE.
D28	DISCONNECT AND REMOVE POWER FOR HAND DRYER AT THIS LOCATION.



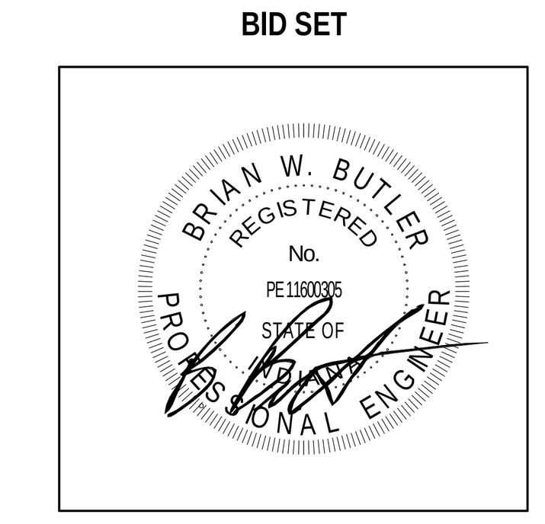
UNIT B - FIRST FLOOR ELECTRICAL DEMOLITION PLAN

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



KEY PLAN

BID SET



PROJECT MANAGER: KRS

DRAWN BY: RDR

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO. △	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

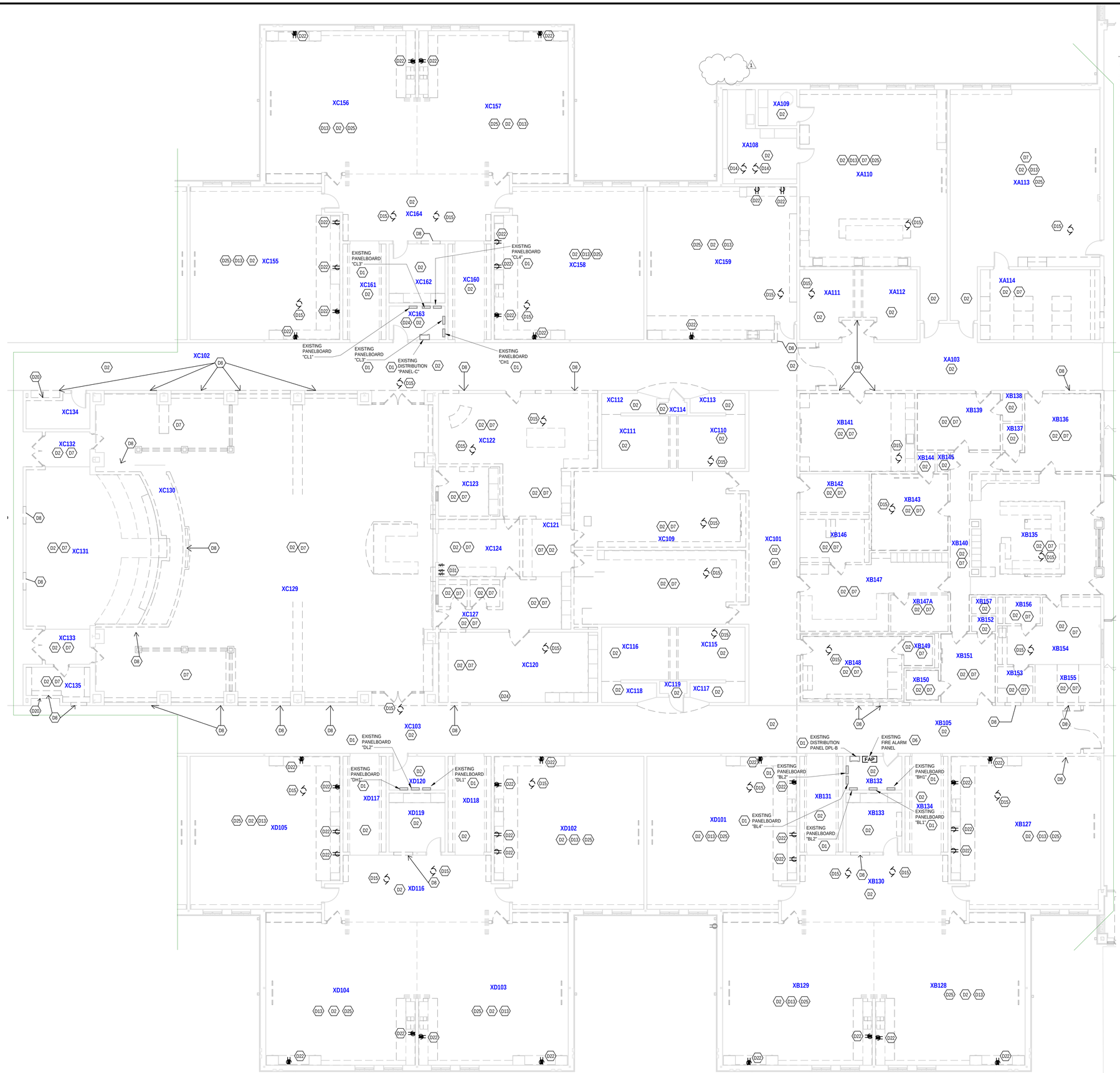
VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

UNIT B - FIRST FLOOR ELECTRICAL DEMOLITION PLAN

ED.02



UNIT C - FIRST FLOOR ELECTRICAL DEMOLITION PLAN

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

GENERAL NOTES - DEMOLITION

1. REFER TO ELECTRICAL SPECIFICANTS SECTIONS 260005 "ELECTRICAL DEMOLITION" FOR ADDITIONAL REQUIREMNETS THAT APPLY TO THIS DRAWING SHEET.
2. REMOVE ELECTRICAL EQUIPMENT COMPLETE.
3. ALL EXISTING FIRE ALARM DEVICES ARE TO BE DISCONNECTED AND REMOVED.
4. DISCONNECT AND REMOVE ALL EXISTING EXIT SIGNS AND DISPOSE OF PROPERLY PER SPECIFICATIONS.
5. ALL EXISTING DUPLEX RECEPTACLES INSIDE AND OUTSIDE THE BUILDING THAT ARE NOT PART OF THE NEW CONSTRUCTION OR RENOVATED AREAS ARE TO BE REPLACED WITH NEW DEVICES AND COVER PLATES.
6. ALL EXISTING DUPLEX RECEPTACLES AND ELECTRICAL WORK IN EXISTING WALLS TO BE DEMOLISHED SHALL BE REMOVED AND REWORKED TO MAINTAIN CIRCUITRY CONTINUITY.

KEYNOTES

D1	EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE.
D2	DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND LIGHT SWITCHES IN THIS ROOM. EXISTING LIGHTING CIRCUITS ARE TO REMAIN IN PLACE FOR NEW LIGHTING. REFER TO THE "E4" DRAWING SHEETS FOR THE ADDITIONAL REQUIREMENTS.
D6	DISCONNECT AND REMOVE EXISTING FIRE ALARM PANEL AT THIS LOCATION AS WELL AS ALL FIRE ALARM DEVICES AND CABLING BEING FED FROM THIS PANEL.
D7	DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES MOUNTED IN THE WALLS OF THIS ROOM.
D8	DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES IN THIS PORTION OF THE WALL THAT IS TO BE REMOVED.
D13	EXISTING DUPLEX RECEPTACLE MOUNTED IN THE CEILING FOR THE VIDEO PROJECTOR IS TO BE REMOVED FROM THE CEILING TILE AND SUPPORTED ABOVE UNTIL THE NEW CEILING IS IN PLACE. THEN IS TO BE REMOUNTED IN THE NEW CEILING IN THE APPROXIMATE SAME LOCATION.
D14	DISCONNECT EXISTING MECHANICAL UNIT AT THIS LOCATION. EXISTING CIRCUITRY IS TO REMAIN IN PLACE FOR THE NEW MECHANICAL UNIT. REFER TO THE "ES" POWER PLAN DRAWING SHEETS FOR ADDITIONAL REQUIREMENTS.
D15	DISCONNECT EXISTING MECHANICAL UNIT AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE.
D20	DISCONNECT AND REMOVE EXISTING DISPLAY CASE, LIGHT FIXTURE AND RECEPTACLE AT THIS LOCATION. REMOVE WIRING AND CONDUIT BACK TO ITS SOURCE.
D22	DISCONNECT AND REMOVE DUPLEX RECEPTACLE AT THIS LOCATION. REMOVE WIRING BACK TO ITS SOURCE.
D24	DISCONNECT AND REMOVE POWER FROM EXISTING TECHNOLOGY RACKS IN THIS ROOM. EXISTING TECHNOLOGY RACKS ARE TO BE REWIRED TO NEW STANDBY PANELBOARD. REFER TO THE "ES" SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.
D25	DISCONNECT AND REMOVE ALL EXISTING FLOOR BOX DEVICES IN THIS ROOM AND PULL EXISTING WIRES AND CABLING BACK TO ITS SOURCE. PROVIDE A BLANK COVER PLATE ON THE EXISTING BACKBOXES THAT ARE TO REMAIN.
D31	EXISTING SHADE MOTOR CONTROLS AND ASSOCIATED SWITCHES ARE TO BE DISCONNECTED AND RELOCATED. REFER TO POWER PLAN SHEET "ES.03" FOR NEW LOCATION AND ADDITIONAL REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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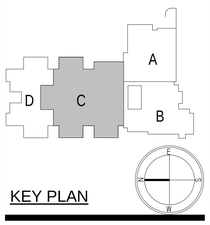


BID SET

PROJECT MANAGER: KRS

DRAWN BY: RDR

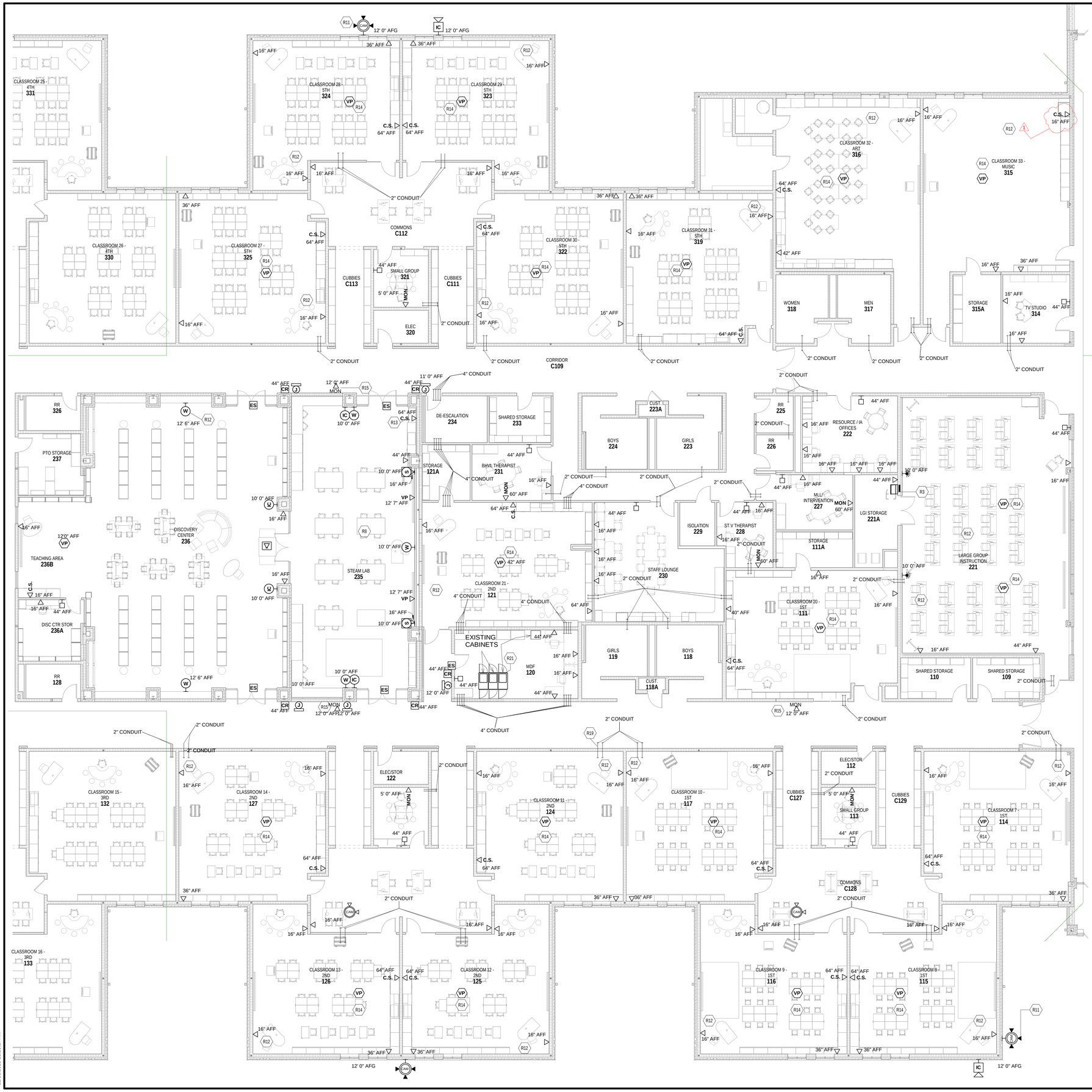
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

UNIT C - FIRST FLOOR ELECTRICAL DEMOLITON PLAN

ED.03



ROOM LEGEND - FIRST FLOOR UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLI/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF
234	DE-ESCALATION	133 SF
235	STEAM LAB	1651 SF
236	DISCOVERY CENTER	2667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

TECHNOLOGY PLAN NOTES

R3 COORDINATE WITH TECH CONTRACTOR TO CONFIRM ELECTRICAL NEEDS.

R8 SEE DETAILS FOR LGI SOUND/PROJECTOR SYSTEM CONDUIT RISER DIAGRAM.

R11 COORDINATE OUTDOOR CAMERA LOCATIONS WITH TECHNOLOGY CONTRACTOR BEFORE ROUGH INS TO DETERMINE BEST LOCATIONS BECAUSE OF TREE COVER.

R12 REMOVE ALL SURFACE MOUNT RACEWAY DATA PATHS AND REPLACE WITH 1 NEW 1 1/4" MINIMUM FLEX CONDUIT INSIDE EXISTING WALLS TO DATA ROUGH IN BOX.

R13 CLASSROOM SOUND/DATA LOCATION TO BE LOCATED AT 64" INSIDE TEACHER WARDROBE.

R14 PROJECTOR POWER CAN BE COILED ABOVE FOR REUSE IN THE PROJECTOR CEILING PLATE.

R15 HALLWAY CEILING MOUNTED MONITOR WILL NEED POWER PROVIDED. COORDINATE WITH TECH CONTRACTOR.

R19 SEE DETAIL 2/E3.17 FOR CLASSROOM SLEEVE ROUGH-IN REQUIREMENTS PROVIDED BY ELECTRICAL CONTRACTOR

R21 DATA CABINETS WILL REQUIRE 2-30 AMP PLUGS INSTALLED WITHIN THE MAIN TECH ROOM.

VERIFICATION NOTE:

CONTRACTOR TO INCLUDE REMOVAL & RELOCATION OF DIVISION 27 & 28 CABLING AND EQUIPMENT IN ACCORDANCE WITH THE PROJECT SCHEDULE IN ORDER TO MAINTAIN BUILDING SERVICES TO AREAS THAT REMAIN OCCUPIED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES AND EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED CONTACT THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK.

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ARCHITECT

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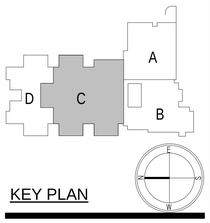


KEY PLAN

BID SET

PROJECT MANAGER: KRS

DRAWN BY: CDT

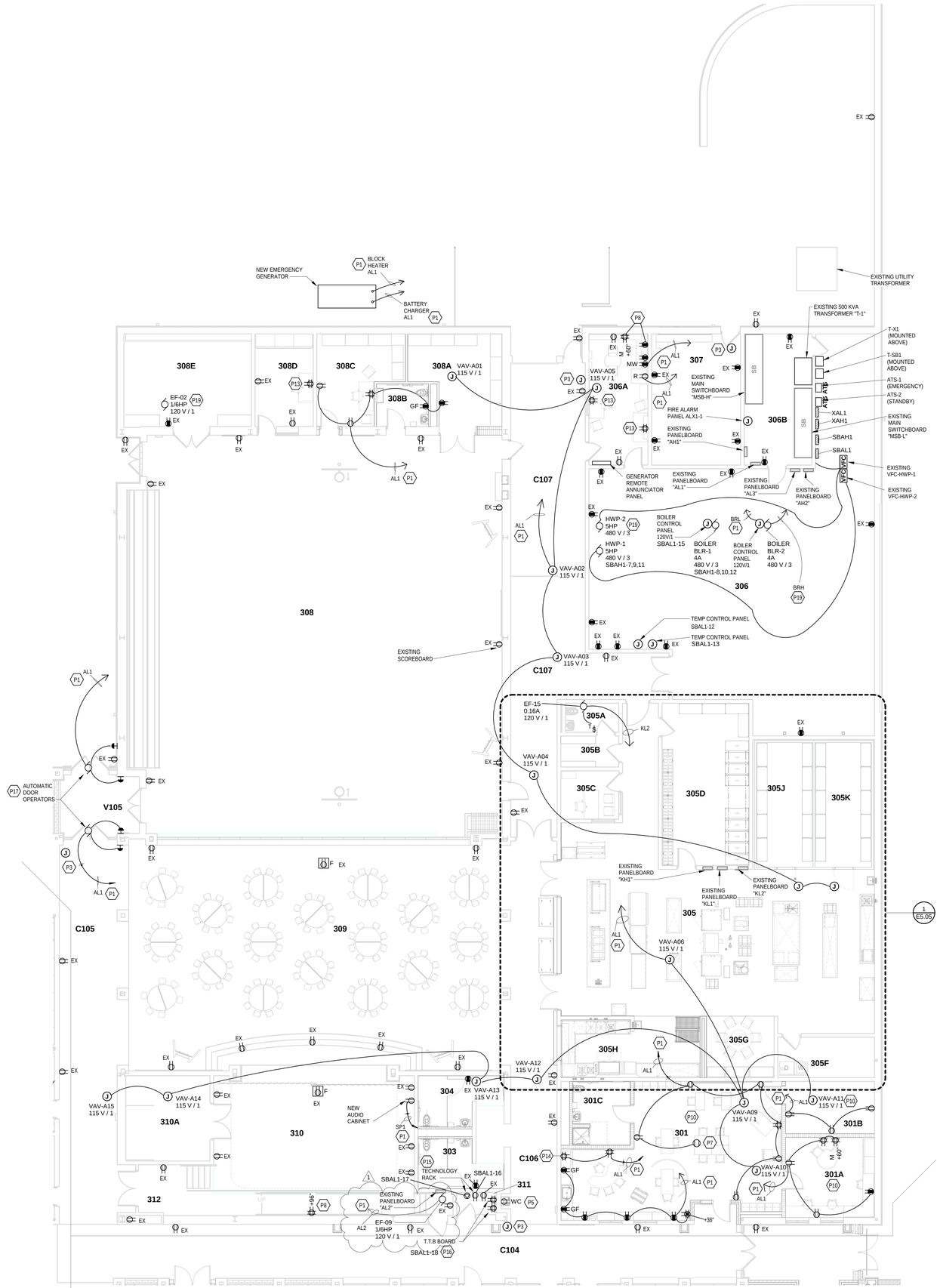
PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12-19-25

UNIT C - FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN

E3.03



UNIT A - FIRST FLOOR POWER PLAN

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

ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
301	CLASSROOM 34 - F.A.P.	727 SF
301A	SMALL GROUP	213 SF
301B	DE-ESCALATION	139 SF
301C	RESTROOM	109 SF
303	GIRLS	105 SF
304	BOYS	111 SF
305	KITCHEN	1688 SF
305A	TOILET	46 SF
305B	DRESSING	54 SF
305C	KITCHEN OFFICE	84 SF
305D	DRY STORAGE	422 SF
305E	CUST.	Not Placed
305F	LAUNDRY	117 SF
305G	BREAKROOM	124 SF
305H	DISHWASHING	246 SF
305J	COOLER	237 SF
305K	FREEZER	235 SF
306	BOILER ROOM	2210 SF
306A	CUSTODIAL OFFICE & BREAKROOM	231 SF
306B	ELECTRICAL	265 SF
307	OUTDOOR STORAGE	348 SF
308	GYMNASIUM	4501 SF
308A	STORAGE	219 SF
308B	FAMILY RR	66 SF
308C	PARKS OFFICE	203 SF
308D	P.E. OFFICE	161 SF
308E	STORAGE	353 SF
309	CAFETORIUM	2292 SF
310	STAGE	1019 SF
311	IDF	29 SF
312	BACKSTAGE	228 SF
313	STORAGE	987 SF
C105	CORRIDOR	761 SF
C106	CORRIDOR	642 SF
C107	CORRIDOR	1055 SF
V105	VESTIBULE	151 SF

GENERAL NOTES - POWER

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. NEW ELECTRICAL DEVICES THAT ARE TO BE MOUNTED IN EXISTING WALLS ARE TO BE FLUSH MOUNTED BY RECESSING A NEW BACK BOX IN THE WALL, THEN FISHING FLEXIBLE CONDUIT DOWN THE WALL TO THE NEW BACK BOXS OR BY RE-USING AND EXISTING BACK BOX AND CONDUIT IN CLOSE PROXIMITY TO THE NEW ELECTRICAL DEVICE.
11. ALL EXISTING DUPLEX RECEPTACLES WITH SUFFIX "EX" INSIDE AND OUTSIDE OF THE BUILDING ARE TO BE REPLACED WITH NEW DEVICES AND COVER PLATES, TO MATCH EXISTING CONFIGURATION AND TYPE.
12. ALL NEW ELECTRICAL DEVICES MOUNTED IN WALL WITH TACKABLE WALL SURFACE "TWS" ARE TO BE PROVIDED WITH AN EXTENSION RING ON THE BACKBOX.
13. ELECTRICAL CONTRACTOR TO COORDINATE ALL THE T.V. MONITOR HEIGHTS WITH THE OWNER PRIOR TO ROUGH-IN.

KEYNOTES	
P1	WIRE TO A SPARE 20-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING DESIGNATED PANELBOARD.
P3	SECURITY JUNCTION BOX MOUNTED ABOVE THE CEILING FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST DUPLEX RECEPTACLE CIRCUIT IN THIS ROOM.
P5	EXISTING DUPLEX RECEPTACLE AT THIS LOCATION IS TO BE REPLACED WITH A NEW DUPLEX RECEPTACLE AND USED FOR NEW WATER COOLER.
P7	NEW CEILING MOUNTED DUPLEX RECEPTACLE FOR VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH VIDEO PROJECTOR LOCATION.
P8	WIRE NEW RECEPTACLE TO THE EXISTING RECEPTACLE CIRCUIT IN THIS ROOM.
P10	ALL NEW POWER RECEPTACLES IN THIS ROOM BELOW 5'-6" ARE TO BE TAMPER RESISTANT TYPE.
P13	THE EXISTING DUPLEX RECEPTACLE AND SINGLE GANG BACKBOX AT THIS LOCATION IS TO BE CHANGED TO A DOUBLE DUPLEX RECEPTACLE WITH A DOUBLE GANG BACKBOX.
P14	PROVIDE A DOUBLE DUPLEX RECPETACLE ADJACENT TO THE TECHNOLOGY DATA BOX MOUNTED AT 66 INCHES A.F.F BEHIND THE TEACHERS WARDROBE/TECHNOLOGY CABINET. REFER TO DETAILS ON DRAWING SHEET A7.06 FOR EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN OF BACKBOX.
P15	TECHNOLOGY RACK (IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P16	TECHNOLOGY RACK (IDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "2/E1.02" FOR MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS. PROVIDE #10 CONDUCTORS.
P17	AUTOMATIC DOOR OPERATOR MOTOR, PUSH BUTTONS AND KEYED SWITCH BY UNIT MANUFACTURER. CONDUIT, BACKBOXES, AND POWER WIRING ARE PROVIDED BY THE DIVISION 26 CONTRACTOR PER THE MANUFACTURER'S REQUIREMENTS. LOCATIONS SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. VERIFY EXACT LOCATIONS OF ALL ROUGH-INS WITH OPERATOR INSTALLER PRIOR TO ROUGH-IN.
P19	WIRE NEW MECHANICAL UNIT TO EXISTING CIRCUIT(S) AT THIS LOCATION, FROM THE MECHANICAL UNIT THAT WAS REMOVED.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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350 E. NEW YORK ST, INDIANAPOLIS IN 46204

CONSULTANT

KEY PLAN

BID SET

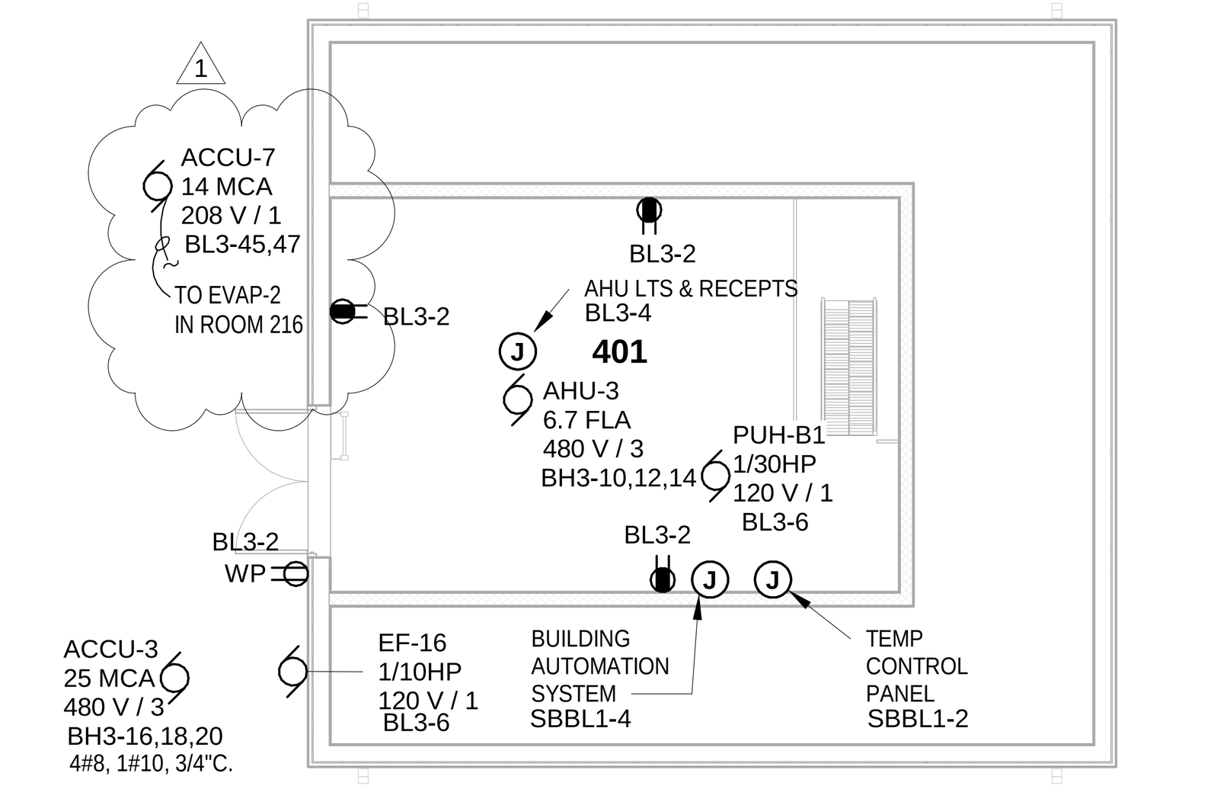
BRIAN W. BUTLER
No. PE 11600305
STATE OF INDIANA

PROJECT MANAGER: KRS
DRAWN BY: MMS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

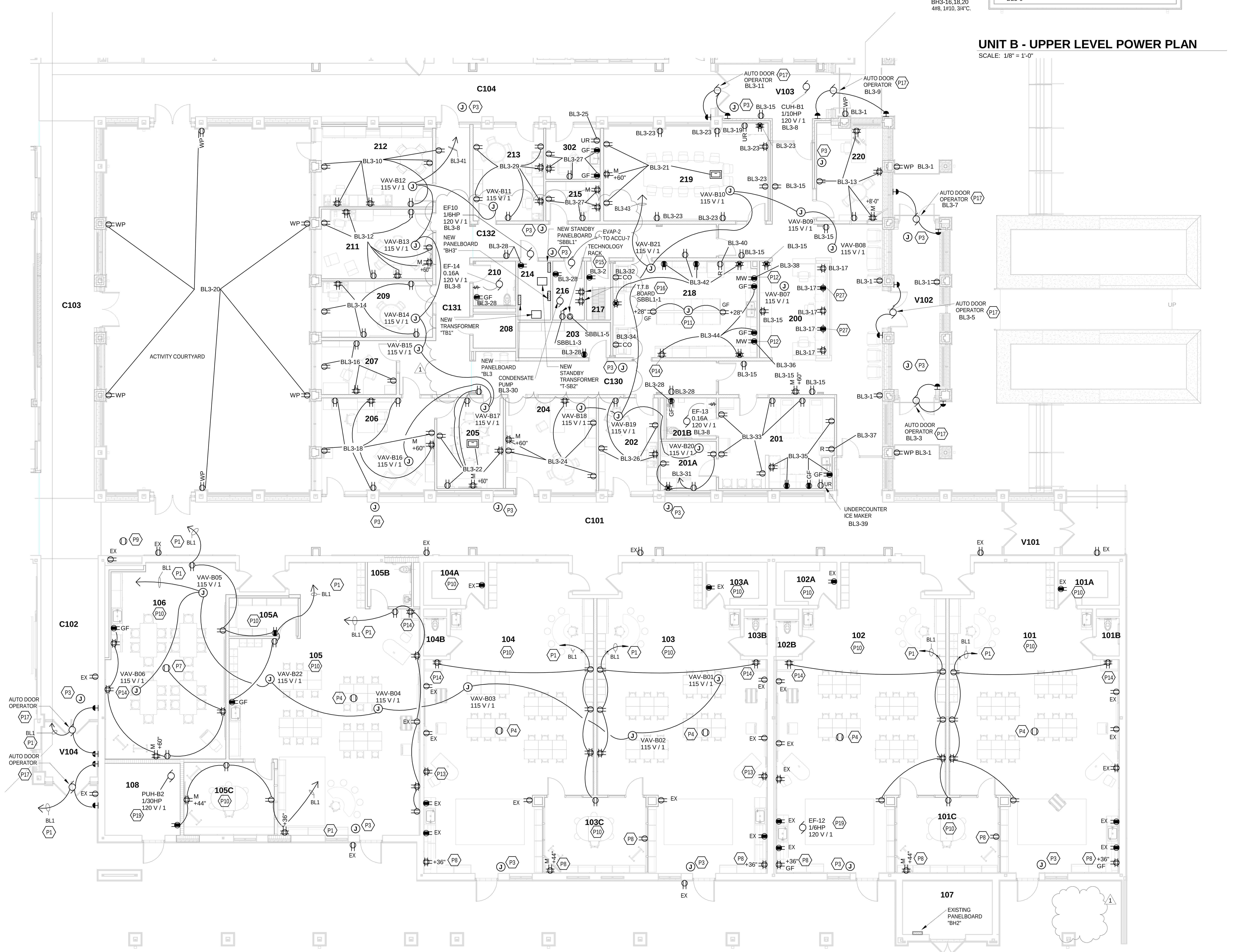
UNIT A - FIRST FLOOR POWER PLAN

E5.01



UNIT B - UPPER LEVEL POWER PLAN

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



UNIT B - FIRST FLOOR POWER PLAN

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

ROOM LEGEND - FIRST FLOOR UNIT B		
ROOM NO.	ROOM NAME	AREA (SF)
	ACTIVITY COURTYARD	2313 SF
101	KINDER - CR 1	1327 SF
101A	STORAGE	80 SF
101B	TOILET	26 SF
101C	SMALL GROUP	234 SF
102	KINDER - CR 2	1325 SF
102A	STORAGE	80 SF
102B	TOILET	24 SF
103	KINDER - CR 3	1329 SF
103A	STORAGE	80 SF
103B	TOILET	27 SF
103C	SMALL GROUP	234 SF
104	KINDER - CR 4	1327 SF
104A	STORAGE	80 SF
104B	TOILET	27 SF
105	KINDER - CR 35	1243 SF
105A	STORAGE	80 SF
105B	RR	58 SF
105C	SMALL GROUP	201 SF
106	FLEX ROOM	707 SF
107	MECH	149 SF
108	OUTDOOR STORAGE	166 SF
200	RECEPTION	901 SF
201	CLINIC	315 SF
201A	EXAM	84 SF
201B	RR	63 SF
202	E.C. SPEECH	172 SF
203	STORAGE	100 SF
204	ASST PRINCIPAL'S OFFICE	262 SF
205	SMALL CONFERENCE	183 SF
206	PRINCIPAL'S OFFICE	330 SF
207	PSYCHOLOGIST	123 SF
208	ISOLATION	44 SF
209	INST COACH OFFICE	191 SF
210	RR	58 SF
211	SOCIAL WORKER	235 SF
212	OT/PT OFFICE	272 SF
213	SPEECH/HEARING	203 SF
214	ELEC	58 SF
215	TEST STOR/ QUIET SPACE	65 SF
216	IDF	57 SF
217	MEZZANINE	43 SF
218	WORKROOM	418 SF
219	LARGE CONFERENCE	478 SF
220	SRO OFFICE	189 SF
302	MOTHERS	88 SF
C101	CORRIDOR	1729 SF
C102	CORRIDOR	283 SF
C103	CORRIDOR	625 SF
C104	CORRIDOR	1172 SF
C130	CORRIDOR	261 SF
C131	CORRIDOR	342 SF
C132	CORRIDOR	248 SF
V101	VESTIBULE	91 SF
V102	SECURE VESTIBULE	253 SF
V103	VESTIBULE	216 SF
V104	VESTIBULE	103 SF

ROOM LEGEND - SECOND FLOOR UNIT B		
ROOM NO.	ROOM NAME	AREA (SF)
401	MECH. MEZZ.	389 SF

GENERAL NOTES - POWER

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
10. NEW ELECTRICAL DEVICES THAT ARE TO BE MOUNTED IN EXISTING WALLS ARE TO BE FLUSH MOUNTED BY RECESSING A NEW BACK BOX IN THE WALL, THEN FISHING FLEXIBLE CONDUIT DOWN THE WALL TO THE NEW BACK BOXS OR BY RE-USING AND EXISTING BACK BOX AND CONDUIT IN CLOSE PROXIMITY TO THE NEW ELECTRICAL DEVICE.
11. ALL EXISTING DUPLEX RECEPTACLES WITH SUFFIX "EX" INSIDE AND OUTSIDE OF THE BUILDING ARE TO BE REPLACED WITH NEW DEVICES AND COVER PLATES, TO MATCH EXISTING CONFIGURATION AND TYPE.
12. ALL NEW ELECTRICAL DEVICES MOUNTED IN WALL WITH TACKABLE WALL SURFACE "TWS" ARE TO BE PROVIDED WITH AN EXTENSION RING ON THE BACKBOX.
13. ELECTRICAL CONTRACTOR TO COORDINATE ALL THE T.V. MONITOR HEIGHTS WITH THE OWNER PRIOR TO ROUGH-IN.

KEYNOTES	
P1	WIRE TO A SPARE 20-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING DESIGNATED PANELBOARD.
P3	SECURITY JUNCTION BOX MOUNTED ABOVE THE CEILING FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST DUPLEX RECEPTACLE CIRCUIT IN THIS ROOM.
P4	CEILING MOUNTED DUPLEX RECEPTACLE FOR VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH VIDEO PROJECTOR LOCATION.
P7	NEW CEILING MOUNTED DUPLEX RECEPTACLE FOR VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH VIDEO PROJECTOR LOCATION.
P8	WIRE NEW RECEPTACLE TO THE EXISTING RECEPTACLE CIRCUIT IN THIS ROOM.
P9	CEILING MOUNTED DUPLEX RECEPTACLE FOR THE CEILING MOUNTED VIDEO MONITOR. COORDINATE EXACT LOCATION IN THE FIELD WITH THE MONITOR LOCATION. WIRE TO NEAREST CORRIDOR DUPLEX RECEPTACLE CIRCUIT.
P10	ALL NEW POWER RECEPTACLES IN THIS ROOM BELOW 5'-6" ARE TO BE TAMPER RESISTANT TYPE.
P11	RUN CONDUIT UP FROM THE FLOOR INTO THE WALL/CHASE BELOW THE COUNTERTOP AND TO THE RECEPTACLE AT EACH END MOUNTED AT +28" A.F.F.
P12	MOUNT MICROWAVE RECEPTACLE ABOVE THE SHELF THAT THE MICROWAVE SITS ON. REFER TO ARCHITECTURAL ELEVATION "7/A7.08".
P13	THE EXISTING DUPLEX RECEPTACLE AND SINGLE GANG BACKBOX AT THIS LOCATION IS TO BE CHANGED TO A DOUBLE DUPLEX RECEPTACLE WITH A DOUBLE GANG BACKBOX.
P14	PROVIDE A DOUBLE DUPLEX RECPETACLE ADJACENT TO THE TECHNOLOGY DATA BOX MOUNTED AT 66 INCHES A.F.F BEHIND THE TEACHERS WARDROBE/TECHNOLOGY CABINET. REFER TO DETAILS ON DRAWING SHEET A7.06 FOR EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN OF BACKBOX.
P15	TECHNOLOGY RACK (IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P16	TECHNOLOGY RACK (IDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "2/E1.02" FOR MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS. PROVIDE #10 CONDUCTORS.
P17	AUTOMATIC DOOR OPERATOR MOTOR, PUSH BUTTONS AND KEYED SWITCH BY UNIT MANUFACTURER. CONDUIT, BACKBOXES, AND POWER WIRING ARE PROVIDED BY THE DIVISION 26 CONTRACTOR PER THE MANUFACTURER'S REQUIREMENTS. LOCATIONS SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. VERIFY EXACT LOCATIONS OF ALL ROUGH-INS WITH OPERATOR INSTALLER PRIOR TO ROUGH-IN.
P19	WIRE NEW MECHANICAL UNIT TO EXISTING CIRCUIT(S) AT THIS LOCATION, FROM THE MECHANICAL UNIT THAT WAS REMOVED.
P27	MOUNT RECEPTACLE HORIZONTALLY IN THE BACKSPLASH ABOVE THE COUNTER TOP.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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CARMEL CLAY SCHOOLS

ARCHITECT

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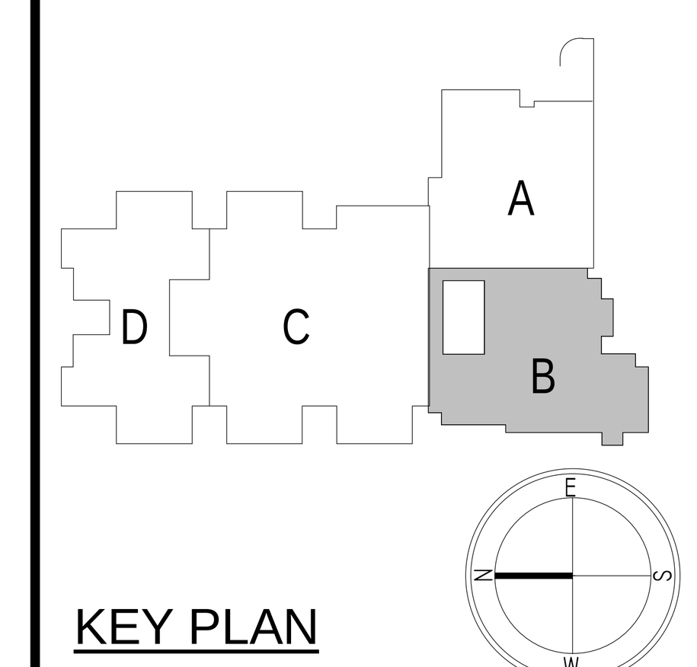

KEY PLAN

BID SET

BRIAN W. BUTLER REGISTERED No. PE 11600305 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS

DRAWN BY: MMS

PROJECT NUMBER: 222033.00

PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

UNIT B - FIRST FLOOR POWER PLAN

E5.02

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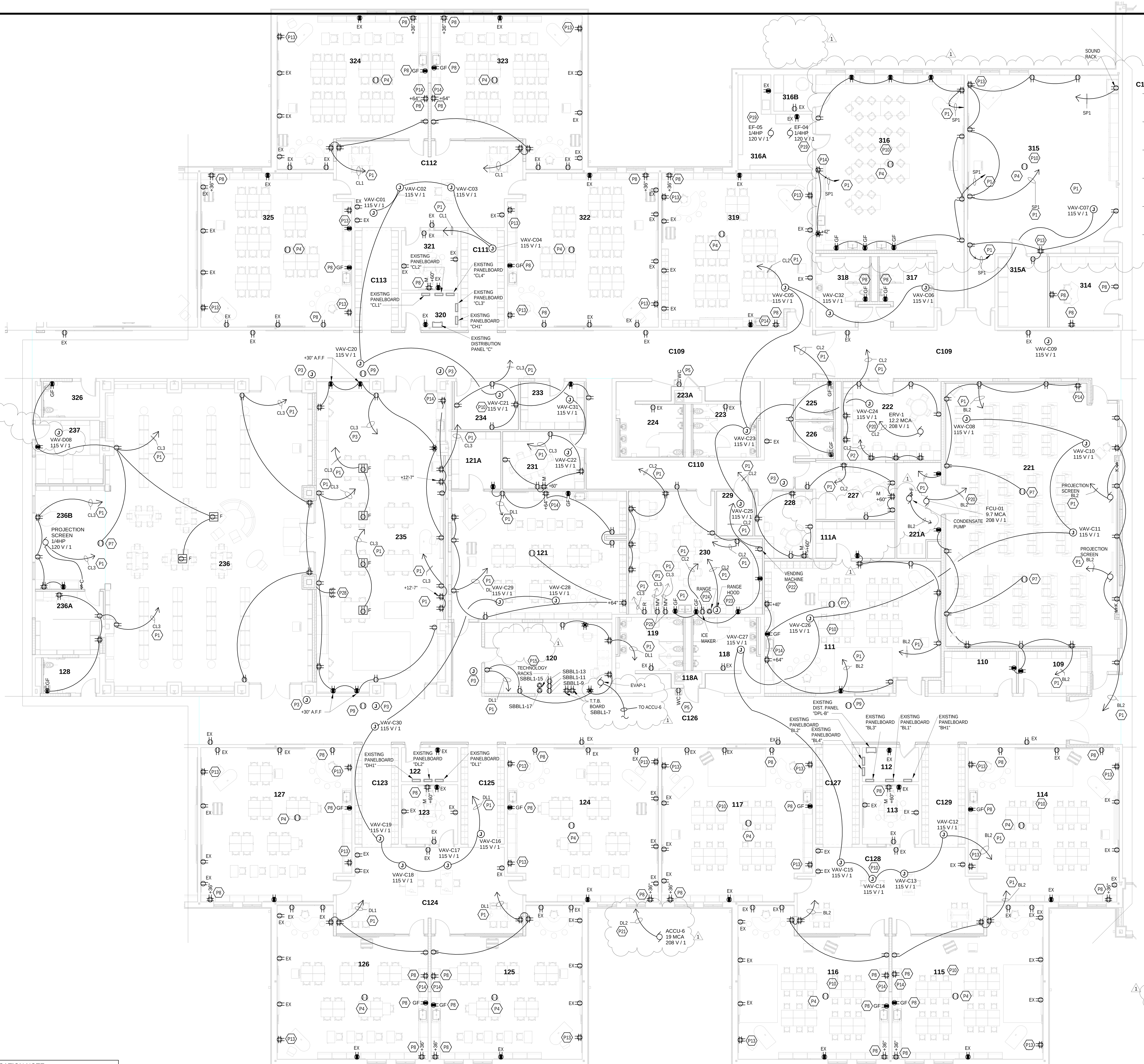

UNIT C - FIRST FLOOR POWER PLAN

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

ROOM LEGEND - FIRST FLOOR UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
109	SHARED STORAGE	119 SF
110	SHARED STORAGE	131 SF
111	CLASSROOM 20 - 1ST	972 SF
111A	STORAGE	125 SF
112	ELEC/STOR	83 SF
113	SMALL GROUP	145 SF
114	CLASSROOM 7 - 1ST	979 SF
115	CLASSROOM 8 - 1ST	877 SF
116	CLASSROOM 9 - 1ST	877 SF
117	CLASSROOM 10 - 1ST	982 SF
118	BOYS	196 SF
118A	CUST.	15 SF
119	GIRLS	196 SF
120	MDF	388 SF
121	CLASSROOM 21 - 2ND	960 SF
121A	STORAGE	122 SF
122	ELEC/STOR	83 SF
123	SMALL GROUP	145 SF
124	CLASSROOM 11 - 2ND	982 SF
125	CLASSROOM 12 - 2ND	878 SF
126	CLASSROOM 13 - 2ND	877 SF
127	CLASSROOM 14 - 2ND	982 SF
128	RR	86 SF
221	LARGE GROUP INSTRUCTION	1928 SF
221A	LGI STORAGE	170 SF
222	RESOURCE / IA OFFICES	333 SF
223	GIRLS	195 SF
223A	CUST.	14 SF
224	BOYS	196 SF
225	RR	63 SF
226	RR	61 SF
227	MLL/ INTERVENTION	219 SF
228	ST.V THERAPIST	159 SF
229	ISOLATION	70 SF
230	STAFF LOUNGE	613 SF
231	BHVL THERAPIST	202 SF
233	SHARED STORAGE	133 SF
234	DE-ESCALATION	133 SF
235	STEAM LAB	1651 SF
236	DISCOVERY CENTER	2667 SF
236A	DISC CTR STOR	179 SF
236B	TEACHING AREA	312 SF
237	PTO STORAGE	180 SF
314	TV STUDIO	210 SF
315	CLASSROOM 33 - MUSIC	1227 SF
315A	STORAGE	151 SF
316	CLASSROOM 32 - ART	1192 SF
316A	STORAGE	235 SF
316B	KILN	60 SF
317	MEN	151 SF
318	WOMEN	148 SF
319	CLASSROOM 31 - 5TH	982 SF
320	ELEC	82 SF
321	SMALL GROUP	145 SF
322	CLASSROOM 30 - 5TH	981 SF
323	CLASSROOM 29 - 5TH	878 SF
324	CLASSROOM 28 - 5TH	878 SF
325	CLASSROOM 27 - 5TH	981 SF
326	RR	87 SF
C109	CORRIDOR	2462 SF
C110	CORRIDOR	451 SF
C111	CUBBIES	189 SF
C112	COMMONS	649 SF
C113	CUBBIES	189 SF
C123	CUBBIES	189 SF
C124	COMMONS	649 SF
C125	CUBBIES	189 SF
C126	CORRIDOR	2118 SF
C127	CUBBIES	189 SF
C128	COMMONS	649 SF
C129	CUBBIES	188 SF

GENERAL NOTES - POWER

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4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
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13. ELECTRICAL CONTRACTOR TO COORDINATE ALL THE T.V. MONITOR HEIGHTS WITH THE OWNER PRIOR TO ROUGH-IN.

KEYNOTES	
P1	WIRE TO A SPARE 20-AMP, 1-POLE CIRCUIT BREAKER IN EXISTING DESIGNATED PANELBOARD.
P2	CONTROLLER IS PROVIDED BY THE UNIT MANUFACTURER.
P3	SECURITY JUNCTION BOX MOUNTED ABOVE THE CEILING FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST DUPLEX RECEPTACLE CIRCUIT IN THIS ROOM.
P4	CEILING MOUNTED DUPLEX RECEPTACLE FOR VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH VIDEO PROJECTOR LOCATION.
P5	EXISTING DUPLEX RECEPTACLE AT THIS LOCATION IS TO BE REPLACED WITH A NEW DUPLEX RECEPTACLE AND USED FOR NEW WATER COOLER.
P7	NEW CEILING MOUNTED DUPLEX RECEPTACLE FOR VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH VIDEO PROJECTOR LOCATION.
P8	WIRE NEW RECEPTACLE TO THE EXISTING RECEPTACLE CIRCUIT IN THIS ROOM.
P9	CEILING MOUNTED DUPLEX RECEPTACLE FOR THE CEILING MOUNTED VIDEO MONITOR. COORDINATE EXACT LOCATION IN THE FIELD WITH THE MONITOR LOCATION. WIRE TO NEAREST CORRIDOR DUPLEX RECEPTACLE CIRCUIT.
P10	ALL NEW POWER RECEPTACLES IN THIS ROOM BELOW 5'-6" ARE TO BE TAMPER RESISTANT TYPE.
P13	THE EXISTING DUPLEX RECEPTACLE AND SINGLE GANG BACKBOX AT THIS LOCATION IS TO BE CHANGED TO A DOUBLE DUPLEX RECEPTACLE WITH A DOUBLE GANG BACKBOX.
P14	PROVIDE A DOUBLE DUPLEX RECPETACLE ADJACENT TO THE TECHNOLOGY DATA BOX MOUNTED AT 66 INCHES A.F.F BEHIND THE TEACHERS WARDROBE/TECHNOLOGY CABINET. REFER TO DETAILS ON DRAWING SHEET A7.06 FOR EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN OF BACKBOX.
P15	TECHNOLOGY RACK (IDF) RECEPTACLES. COORDINATE MOUNTING LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE #10 CONDUCTORS.
P19	WIRE NEW MECHANICAL UNIT TO EXISTING CIRCUIT(S) AT THIS LOCATION, FROM THE MECHANICAL UNIT THAT WAS REMOVED.
P20	WIRE TO A 20 AMP, 2-POLE CIRCUIT BREAKER IN EXISTING DESIGNATED PANELBOARD.
P21	WIRE TO A 30 AMP, 3-POLE CIRCUIT BREAKER IN THE EXISTING DESIGNATED PANELBOARD. WIRE WITH 4#10, 3/4"C.
P22	VENDING MACHINE CIRCUIT IS TO HAVE A 30mA GFCI CIRCUIT BREAKER.
P23	REFER TO DETAIL 23/A7.09 FOR MOUNTING HEIGHT OF THE JUNCTION FOX FOR THE RANGE HEAD, PRIOR TO ROUGH-IN.
P24	PROVIDE A NEMA 14-50R FOR THE RANGE AT THIS LOCATION AND WIRE TO A 50A, 2-POLE CIRCUIT BREAKER IN THE DESIGNATED PANELBOARD. WIRE WITH 3#6, 1#10, 3/4"C.
P25	REFER TO DETAIL 23/A7.09 FOR THE MOUNTING HEIGHT OF THE DUPLEX RECEPTACLES FOR THE TWO MICROWAVES IN THE SAME CABINET PRIOR TO ROUGH-IN.
P28	NEW LOCATION OF EXISTING SWITCHES FOR THE EXISTING WINDOW SHADE MOTORS.

VERIFICATION NOTE

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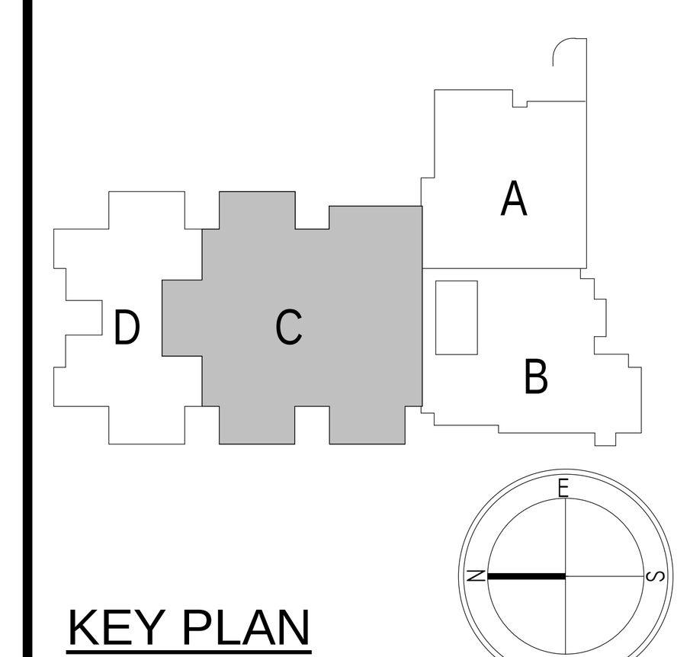
CONSULTANT

KEY PLAN



BID SET

BRIAN W. BUTLER
REGISTERED
No.
PE 11600305
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS
DRAWN BY: MMS
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

UNIT C - FIRST FLOOR POWER PLAN

E5.03

LUMINAIRE SCHEDULE - GENERAL NOTES

1. SEE SPECIFICATIONS FOR DRIVER REQUIREMENTS.
2. FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
3. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY BATTERY UNITS AND PROVIDE REQUIRED QUANTITY OF EMERGENCY BATTERY UNITS, LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY BATTERY UNITS.
4. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR DRIVER COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY CUSTOM COLOR LIGHT FIXTURES.
5. COLOR TEMPERATURE FOR ALL FIXTURES IS TO BE 4000K UNLESS NOTED OTHERWISE.

LUMINAIRE SCHEDULE

PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	LAMPS NO.	WATTS	TYPE	LUMENS	APPLIED VOLTAGE	DESCRIPTION	VA LOAD
C1	INSIGHT LIGHTING MX SERIES PINNACLE MOFFAT M SERIES SPI EIW11905 SERIES	SURFACE WALL	1	36.0 W	LED	0 lm	277 V	4-FOOT ADJUSTABLE MEDIUM OUTPUT. WALL MOUNTED LED UPLIGHT ASYMMETRIC FIXTURE. TEXTURED WHITE.	36 VA
C2	JESCO LIGHTING DL-AC-FLEXZ-BEAM SERIES CONTECH LIGHTING TLTAC SERIES LLI ARCHITECTURAL LIGHTING LLI-LAC4.OW SERIES	COVE	1	5.5 W	LED	314 lm	277 V	FLEXIBLE LINEAR LED STRIP LIGHTING MOUNTED IN COVE.	5.5 VA
C3	EXTANT HTG-IR-LP SERIES MARK SL1L SERIES AXIS LIGHTING SCR SERIES	RECESSED	1	1.8 W	LED	143 lm	277 V	1.5 - INCH APERTURE RECESSED LED TRIMLESS FIXTURE. LENGTH PER DRAWINGS. INTERGRAL DRIVER, MUD RING. WITH CONTINOUS LIGHTED CORNER PIECES.	1.8 VA
D1	A-LIGHT LEAN SERIES ILP ENVI COLLECTION VPAN22 SERIES ARON LIGHTING LFT SERIES	RECESSED	1	53.0 W	LED	4734 lm	277 V	2'BY2' INDIRECT RECESSED LAY-IN, WITH ACOUSTIC COLOR TITANIUM GRAY.	53 VA
D1X	A-LIGHT LEAN SERIES ILP ENVI COLLECTION VPAN22 SERIES ARON LIGHTING LFT SERIES	RECESSED	1	53.0 W	LED	4734 lm	277 V	2'BY2' INDIRECT RECESSED LAY-IN, WITH ACOUSTIC COLOR TITANIUM GRAY. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	53 VA
DSC1	FLUXWERX PORTAL TC1 SERIES LUMENWERX CLUP1LR SERIES	RECESSED	1	9.0 W	LED	1300 lm	277 V	5.5 INCH MEDIUM BEAM, 80 CRI, WHITE POWDER COAT FIXTURE/TRIM FINISH AND OPTIC CHANNEL FINISH.	9 VA
FL1	LUMARK NFFLD-S SERIES LITHONIA ESXF LED SERIES STONECO FL20 SERIES BEACON RFL2 SERIES	BRACKET MOUNTED	1	20.0 W	LED	2682 lm	277 V	ROOFTOP MOUNTED LED FLOOD LIGHT AIMED TO ILLUMINATE THE ENTRY TOWER.	<varies>
FL2	COOPER INVUE VFS SERIES LITHONIA DSXF1 SERIES BEACON RFL3 SERIES	GROUND MOUNTED	1	46.0 W	LED	4132 lm	277 V	GROUND MOUNTED LED FLOOD LIGHT AIMED TO ILLUMINATE TO THE LETTERS ON THE FACE OF THE BUILDING. WIDE SYMMETRIC RECTANGULAR DISTRIBUTION.	46 VA
LCD41	HALO HCC4 SERIES LITHONIA LDN4CYL SERIES PRESCOLITE LTC-4RD SERIES	SURFACE	1	12.0 W	LED	1000 lm	277 V	4-INCH APERATURE OPEN REFLECTOR LED DOWNLIGHT, SURFACE MOUNTED WITH NO STEM. MEDIUM DISTRIBUTION, CLEAR SPECULAR REFLECTOR, 0-10VDC DIMMING FIXTURE HOUSING WHITE IN COLOR.	12 VA
LD41	LITHONIA LDN4 SERIES HALO HC4 SERIES PRESCOLITE LF4-4RD LED SERIES	RECESSED	1	14.0 W	LED	900 lm	277 V	4-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY.	14 VA
LD61	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22.0 W	LED	1500 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. FIXTURES IN SERVING AREA ARE TO BE EITHER 3000K OR 3500K AS NOTED, ALL OTHER INSTANCES TO BE 4000K	19 VA
LD61X	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22.0 W	LED	1500 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY, WITH EMERGENCY TRANSFER DEVICE.	22 VA
LD62	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22.0 W	LED	2000 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. FIXTURES IN SERVING AREA ARE TO BE EITHER 3000K OR 3500K AS NOTED, ALL OTHER INSTANCES TO BE 4000K	19 VA
LD62X	HALO HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22.0 W	LED	2000 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY, WITH EMERGENCY TRANSFER DEVICE.	22 VA
LDW61	PORTFOLIO LD6A SERIES GOTHAM EVO SHOWER SERIES PRESCOLITE LF6LEDG4 SERIES	RECESSED	1	15.0 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA
LE1	McGRAW-EDISON LIGHTING GARDCO LIGHTING LITHONIA LIGHTING SPAULDING LIGHTING BEACON GEOPAK SERIES	SURFACE WALL	1		LED		277 V	HALF-CYLINDER LED WALL MOUNTED LUMINAIRE WITH DIE CAST ALUMINUM HOUSING, BOTTOM DIFFUSER FLUSH WITH THE DIE CASTING, TYPE 3 DISTRIBUTION, 70 CRI LEDs. LUMINAIRE COLOR: FROM MANUFACTURER STANDARD COLORS. MOUNT ONTO JUNCTION BOX. VANDAL RESISTANT	20 VA
LF1	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	39.0 W	LED	4000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING.	39 VA
LF1AX	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	39.0 W	LED	4000 lm	277 V	1 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING, EMERGENCY TRANSFER DEVICE.	39 VA
LF1X	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	39.0 W	LED	4000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING, EMERGENCY TRANSFER DEVICE.	39 VA
LF1XA	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	39.0 W	LED	4000 lm	277 V	1 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING, EMERGENCY TRANSFER DEVICE.	39 VA
LF2	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	47.0 W	LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING.	47 VA
LF2X	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	47.0 W	LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING, EMERGENCY TRANSFER DEVICE.	47 VA
LF3	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	53.0 W	LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING.	53 VA
LF3X	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	53.0 W	LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING. EMERGENCY TRANSFER DEVICE.	53 VA
LFW2	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	47.0 W	LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING. DAMP LOCATION.	47 VA
LFW2X	LITHONIA CPX SERIES COLUMBIA CFP SERIES EATON METALUX CGT SERIES	RECESSED	1	47.0 W	LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% 0-10V DIMMING WITH AN EMERGENCY TRANSFER DEVICE, DAMP LOCATION	47 VA
LN2	METALUX SNX LENSED SERIES LITHONIA ZL1D SERIES COLUMBIA MPS SERIES	SUSPENDED	1	33.0 W	LED	3900 lm	277 V	4-FOOT SURFACE LED STRIP TYPE LIGHT FIXTURE, FROSTED LENS, WIDE DISTRIBUTION, 0-10V DIMMING.	33 VA
LR2	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	48.0 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LR2X	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	48.0 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LR4	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	87.0 W	LED	7000 lm	277 V	4-FOOT WRAP LED AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	87 VA
LR4X	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	87.0 W	LED	7000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	116 VA
LS1	LITHONIA RSX2 SERIES LUMARK PREVAIL SERIES BEACON VIPER L SERIES	25'-0 " ROUND TAPERED POLE	1	270.0 W	LED	27301 lm	277 V	POLE MOUNTED LED FIXTURE ON A 25'-0" TALL POLE. CLEAR LENS, 70+CRI, 4000K, TYPE 3 DISTRIBUTION.	270 VA
LS2	LITHONIA RSX2 SERIES LUMARK PREVAIL SERIES BEACON VIPER L SERIES	15'-0 " ROUND TAPERED POLE	1	180.0 W	LED	20000 lm	277 V	POLE MOUNTED LED FIXTURE ON A 15'-0" TALL POLE. CLEAR LENS, 70+CRI, 4000K, TYPE 3 DISTRIBUTION.	180 VA
LT044H	MARK ARCHITECTURAL SLOT 4 LED SERIES STARTEK LIGHTING AMERICA RBEAM SERIES LITECONTROL MOD 4 LED SERIES	RECESSED	1	40.0 W	LED	4000 lm	277 V	4" BY 4-FOOT LED SLOT FIXTURE, MOUNTING METHOD PER PLANS, 100% DOWNLIGHT WITH ACRYLIC FLUSH SMOOTH DIFFUSER, 80 CRI, 0-10VDC DIMMING DRIVER.	40 VA
LT044HX	MARK ARCHITECTURAL SLOT 4 LED SERIES STARTEK LIGHTING AMERICA RBEAM SERIES LITECONTROL MOD 4 LED SERIES	RECESSED	1	40.0 W	LED	4000 lm	277 V	4" BY 4-FOOT LED SLOT FIXTURE, MOUNTING METHOD PER PLANS, 100% DOWNLIGHT WITH ACRYLIC FLUSH SMOOTH DIFFUSER, 80 CRI, 0-10VDC DIMMING DRIVER WITH EMERGENCY TRANSFER DEVICE.	40 VA
LWBS2X	METALUX SWLED SERIES LITHONIA WL4 SERIES COLUMBIA LBIL SERIES	SURFACE WALL	1	53.0 W	LED	3800 lm	277 V	4-FOOT WALL BRACKET TYPE LED STAIRWELL FIXTURE, FROSTED ACRYLIC LENS, INTEGRAL OCCUPANCY SENSOR. PROVIDE WITH DRIVER AS REQUIRED FOR AUTOMATIC DIMMING TO 50% OUTPUT DURING UNOCCUPIED TIMES. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	53 VA
P1	LUXXBOX LX-DA SERIES INSIGHT LIGHTING ADOBE SERIES	PENDANT	1	45.0 W	T8	3495 lm	277 V	TWO PENDANT MOUNTED 73.5 INCH LONG LED DOWNLIGHT FIXTURES MOUNTED END-TO-END. 0-10VDC DIMMING. DESIGN COLOR TO BE TEXTURED GREY.	45 VA
P2	GOTHAM EVO SERIES SOLID STATE LUMINAIRES SSC6 SERIES PRESCOLITE LTC-6RD SERIES	PENDANT	1	97.1 W	LED	10000 lm	277 V	PENDANT MOUNTED 6-INCH CYLINDER 0-10VDC, DIMMING,WIDE DISTRIBUTION, BRONZE SPECULAR FINISH	97.1 VA
P2X	GOTHAM EVO SERIES SOLID STATE LUMINAIRES SSC6 SERIES PRESCOLITE LTC-6RD SERIES	PENDANT	1	97.1 W	LED	10000 lm	277 V	PENDANT MOUNTED 6-INCH CYLINDER 0-10VDC, DIMMING,WIDE DISTRIBUTION, BRONZE SPECULAR FINISH. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	97.1 VA
P3	LIGHTOLIER 3DP1HB SERIES BASELIGHT QSD22 SERIES LUMINIS PR2280 SERIES VERSA LED LIGHTING HBLED SERIES	PENDANT	1	68.0 W	LED	14000 lm	277 V	DECORATIVE HIGH BAY BELL SHAPED LIGHT FIXTURE, MEDIUM SIZE, CLEAR LOWER SHADE, LAYERED FINE TEXTURE, BRONZE FINISH. 1%, 0-10VD DIMMING	68 VA
P3X	LIGHTOLIER 3DP1HB SERIES BASELIGHT QSD22 SERIES LUMINIS PR2280 SERIES VERSA LED LIIGHTING HBLED SERIIES	PENDANT	1	68.0 W	LED	14000 lm	277 V	DECORATIVE HIGH BAY BELL SHAPED LIGHT FIXTURE, MEDIUM SIZE, CLEAR LOWER SHADE, LAYERED FINE TEXTURE, BRONZE FINISH. 1%, 0-10VD DIMMING. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	68 VA
P6	BUZZISPACE BUZZIPLEAT SERIES	PENDANT	1	0.0 W	LED	0 lm	277 V	3'-4" DIAMETER PLEATED, ACCUSTICAL PENDANT LIGHT FIXTURE.	0 VA
RL1	LUMINII KURBA SERIES QTRAIN KURV SERIES KELVIN SW3 SERIES	SURFACE		80.0 W	LED	100 lm	277 V	ROPE LIGHT TO BE INSTALLED UNDER THE STONE LIP OF OUTDOOR PLANTER. PROVIDE ALL NECESSARY HARDWARE, DRIVERS ETC. AS REQUIRED FOR A COMPLETE SYSTEM	80 VA
XC	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE CEILING	1	3.0 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XVW	SURE-LITES UX SERIES CHLORIDE 60 LINE SERIES LITHONIA LV SERIES DUAL-LITE SEWL SERIES	SURFACE WALL	1	3.0 W	RED LED	0 lm	277 V	CAST ALUMINUM, VANDAL RESISTANT AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING, LISTED FOR WET LOCATIONS. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3.0 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA

Branch Panel: BH3

Location: ELEC 214 **Supply From:** MSB-H **Mounting:** Surface **Enclosure:** Type 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10 kA **Mains Type:** M.L.O **Mains Rating:** 200 A **MCB Rating:** 200 A

Notes: INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	Transformer TB1 RM. 214	100 A	3	16398	912					1	20 A	Lighting - RM 200, 215, 219, 220, 302, V102	2
3	--	--	--			17370	0			1	20 A	Spare	4
5	--	--	--					17166	0	1	20 A	Spare	6
7	Lighting - RM. 206-207, 209, 211-213, C130-C132	20 A	1	1312	0					1	20 A	Spare	8
9	Lighting - RM. 201-205, 208, 210, 214, 216-218	20 A	1			1097	1856			3	20 A	AHU-3 6.7 FLA RM 401 (NOTE 1)	10
11	Spare	20 A	1					0	1856	--	--	--	12
13	Spare	20 A	1	0	1856					--	--	--	14
15	Spare	20 A	1			0	5540			3	40 A	ACCU-3 25 MCA ROOFTOP (NOTE 2)	16
17	Spare	20 A	1					0	5540	--	--	--	18
19	Spare	20 A	1	0	5540					--	--	--	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
			Total Load:	26018 VA		25863 VA		24562 VA					
			Total Amps:	95 A		94 A		89 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3321 VA	100.00%	3321 VA		
Motor	13070 VA	110.65%	14462 VA	Total Conn. Load:	76443 VA
Other	2520 VA	100.00%	2520 VA	Total Est. Demand:	63622 VA
Receptacle - Convenience	28800 VA	67.36%	19400 VA	Total Conn.:	92 A
HVAC	19532 VA	90.00%	17579 VA	Total Est. Demand:	77 A
Receptacle - Undercounter Ref.	1200 VA	70.00%	840 VA		
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA		
Receptacle - Microwave	3000 VA	50.00%	1500 VA		
Receptacle - Copy Machine	3000 VA	80.00%	2400 VA		

Notes:
NOTE 1: CONNECT WITH 3#12, #12G IN 3/4"C.
NOTE 2: CONNECT WITH 3#8, #10G IN 1"C.

Branch Panel: BL3

Location: ELEC 214 **Supply From:** TB1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 208/120 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 18 kA **Mains Type:** MCB **Mains Rating:** 200 A **MCB Rating:** 200 A

Notes: INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle - RM - 200, V108	20 A	1	1080	900					1	20 A	RECEPTS RM - 217, 401	2
3	AUTOMATIC DOOR RM - V102	20 A	1			1127	0			1	20 A	AHU LIGHTS/RECEPTS RM - 401	4
5	AUTOMATIC DOOR RM - V102	20 A	1					1127	470	1	20 A	EF 16, PUH-B1 RM - 401	6
7	AUTOMATIC DOOR RM - V102	20 A	1	1127	891					1	20 A	EF-10,13,14,CUH-B1 RM.201B,210,V103,C132	8
9	AUTOMATIC DOOR RM - V103	20 A	1			1127	1440			1	20 A	RECEPTS RM - 212	10
11	AUTOMATIC DOOR RM - V103	20 A	1					1127	1440	1	20 A	RECEPTS RM - 211	12
13	RECEPTS RM - 220	20 A	1	1260	1080					1	20 A	RECEPTS RM - 209	14
15	RECEPTS RM - 200, V103	20 A	1			2160	720			1	20 A	RECEPTS RM - 207	16
17	RECEPTS RM - 200	20 A	1					1440	1080	1	20 A	RECEPTS RM - 206	18
19	REFRIGERATOR RM - 219	20 A	1	600	1080					1	20 A	RECEPTS COURTYARD	20
21	RECEPTS RM - 219	20 A	1			1260	1800			1	20 A	RECEPTS RM - 205	22
23	RECEPTS RM - 219	20 A	1					1620	900	1	20 A	RECEPTS RM - 204	24
25	REFRIGERATOR RM - 302	20 A	1	600	900					1	20 A	RECEPTS RM - 202	26
27	RECEPTS RM - 302, 215	20 A	1			1440	1260			1	20 A	RECEPTS RM-201B,203,210,214,216,C130,C132	28
29	RECEPTS RM - 213	20 A	1					1440	506	1	20 A	CONDENSATE PUMP RM. 216	30
31	RECEPTS RM - 201A	20 A	1	540	1500					1	20 A	COPIER RM - 218	32
33	RECEPTS RM - 201	20 A	1			900	1500			1	20 A	COPIER RM - 218	34
35	RECEPTS RM - 201	20 A	1					720	1500	1	20 A	MICROWAVE RM - 218	36
37	REFRIGERATOR RM - 201	20 A	1	1000	1500					1	20 A	MICROWAVE RM - 218	38
39	ICE MAKER RM - 201	20 A	1			180	1000			1	20 A	REFRIGERATOR RM - 218	40
41	VAV'S - UNIT B	20 A	1					1260	1080	1	20 A	RECEPTS RM - 218	42
43	VAV'S - UNIT B	20 A	1	1260	1080					1	20 A	RECEPTS RM - 218	44
45	ACCU-7 - 14 MCA	20 A	2			1456	0			1	20 A	Spare	46
47	--	--	--					1456	0	1	20 A	Spare	48
49	Spare	20 A	1	0	0					1	20 A	Spare	50
51	Spare	20 A	1			0	0			1	20 A	Spare	52
53	Spare	20 A	1					0	0	1	20 A	Spare	54
55	Spare	20 A	1	0	0					1	20 A	Spare	56
57	Spare	20 A	1			0	0			1	20 A	Spare	58
59	Spare	20 A	1					0	0	1	20 A	Spare	60
			Total Load:	16398 VA		17370 VA		17166 VA					
			Total Amps:	137 A		146 A		144 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	7502 VA	103.76%	7784 VA		
Other	2520 VA	100.00%	2520 VA	Total Conn. Load:	50934 VA
Receptacle - Convenience	28800 VA	67.36%	19400 VA	Total Est. Demand:	38665 VA
HVAC	2912 VA	90.00%	2621 VA	Total Conn.:	141 A
Receptacle - Undercounter Ref.	1200 VA	70.00%	840 VA	Total Est. Demand:	107 A
Receptacle - Refrigerator	2000 VA	80.00%	1600 VA		
Receptacle - Microwave	3000 VA	50.00%	1500 VA		
Receptacle - Copy Machine	3000 VA	80.00%	2400 VA		

Notes:

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

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BID SET

BRIAN W. BUTLER REGISTERED No. PE 11600305 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS
DRAWN BY: RDR
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/19/2025

LUMINAIRE & PANELBOARD SCHEDULES

E8.01

COMMUNICATIONS SYMBOLS LEGEND

SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
C-X	COMMUNICATIONS OUTLET. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	2
W	WALL MOUNTED COMMUNICATIONS OUTLET. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1
	MULTI CAPACITY FLOOR BOX. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
C.S.	CLASSROOM SOUND AUDIO AMPLIFIER LOCATION. SOUND CABLING FROM PROJECTOR, IN ADDITION TO OTHER CABLES NOTED.	SEE AV WIRING DETAILS
VP	CEILING MOUNTED PROJECTOR. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	SEE AV WIRING DETAILS
VP	WALL MOUNTED PROJECTOR. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	SEE AV WIRING DETAILS
W	CEILING MOUNTED WIRELESS ACCESS POINT. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	2 CAT6A
W	WALL MOUNTED WIRELESS ACCESS POINT. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
C-X V.I.	VIDEO INPUT COMMUNICATIONS OUTLET. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO HDMI TO PROJ OR MONITOR AND OTHER CABLES NOTED.	SEE AV WIRING DETAILS
	LADDER TRAY	-
	CONDUIT SLEEVES BETWEEN WALLS	DIVISION 26 PROVIDED
	CABLE TRAY	EXISTING TRAY ONSITE
	TELEPHONE TERMINATION BOARD	-
	LGI AND STEAM LAB WALL MOUNTED SOUND RACK	
	TECHNOLOGY MAIN EQUIPMENT ROOM CABINETS	EXISTING CABINETS ONSITE
	2-POST TECHNOLOGY EQUIPMENT RACK	-

INTERIOR VIDEO SURVEILLANCE CAMERA SYMBOLS LEGEND

SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
CAM	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	
CAM	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	
CAM	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	
CAM	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	

1 TECH SYMBOL LEGEND

N.T.S.

EXTERIOR VIDEO SURVEILLANCE CAMERA SYMBOLS LEGEND

SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
CAM	WALL MOUNTED WEATHERPROOF VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	

PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS

SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
	ANTENNA	-
S	CLASSROOM SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED	-
S	CLASSROOM SOUND REINFORCEMENT SPEAKER - WALL MOUNTED	-
IC	WALL MOUNTED SPEAKER	-
AUX S	WALL MOUNTED AUXILIARY RINGER OUTLET	-
	LARGE AUDIO SYSTEM SPEAKERS	-
IC VS IC VS	WALL MOUNTED SPEAKER OR HORN WITH VISUAL STROBE	T1.02
	WALL MOUNTED INTERCOM VOLUME CONTROL	-
	WALL MOUNTED CAREHAWK INTERCOM MASTER STATION	-

ACCESS CONTROL SYMBOLS LEGEND

SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
CR	CARD READER	T1.02
EL	ELECTRONIC LATCH SET WITH ELECTRONIC POWER TRANSFER	T1.02
ES	ELECTRONIC STRIKE SET WITH ELECTRONIC POWER TRANSFER	T1.02
J C-X	ABOVE CEILING WALL MOUNTED DOOR ACCESS CONTROLLER JUNCTION BOX. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	T1.02
AI J C-X	ABOVE CEILING WALL MOUNTED DOOR ACCESS AIPHONE CTRL JUNCTION BOX. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED TO RELEASE THE ELECTRIC STRIKE.	T1.04
·	PUSH TO RELEASE BUTTON	T1.02
ADO	AUTOMATIC DOOR OPERATOR	T1.02
LD	LOCKDOWN BUTTON	T1.02
AI	AIPHONE DOOR INTERCOM/CAMERA	T1.04
MI	AIPHONE MAIN INTERCOM/CAMERA CONSOLE DESKPHONE	T1.04
K	SECURITY SYSTEM KEYPAD	
DC	DOOR MONITORING CONTACT	T1.02

TECHNOLOGY GENERAL NOTES

A THE COMMUNICATIONS CABLING CONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY ADDITIONAL CONDUIT SLEEVES, OUTLET/JUNCTION BOXES, SURFACE RACEWAY, CABLE TRAY, DOUBLE GANG SQUARE PLASTER MUD RINGS, ETC. NOT SHOWN ON THE E3 ROUGH IN DRAWINGS.

B THE COMMUNICATIONS CABLING CONTRACTOR(S) IS/ARE RESPONSIBLE FOR COORDINATING WITH ELECTRICAL CONTRACTOR IN EXTENDING THE ELECTRICAL SERVICE FROM THE ELECTRICAL JUNCTION BOX IN THE SPACE TO ALL THE COMMUNICATIONS RACKS/CABINETS.

C THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REPLACING/REPAIRING DAMAGED CEILING GRID/TILE AS A RESULT OF THEIR INSTALLATION.

D THE CONTRACTOR SHALL VERIFY THE SURFACE RACEWAY LOCATIONS, ROUTING, OPENINGS, ETC. WITH THE BUILDING ELECTRICAL CONTRACTOR. PROVIDE PROPER COVER PLATES FOR THE DEVICES AS REQUIRED.

E THE COMMUNICATIONS CABLING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE VIDEO PROJECTOR WITH THE WHITEBOARD INSTALLATION CONTRACTOR AND ELECTRICAL CONTRACTOR TO INSURE A FULL AND CLEAR PROJECTION IMAGE.

E THE COMMUNICATIONS CABLING CONTRACTOR SHALL COORDINATE RECEIVING THE EXISTING PROJECTOR AND CLASSROOM SOUND SYSTEM FROM THE SCHOOL FOR INSTALLATION. COMMUNICATIONS CONTRACTOR AND ELECTRICAL CONTRACTOR TO INSURE A FULL AND CLEAR PROJECTION IMAGE WHEN COMPLETE.

TECHNOLOGY ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW.

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
B	BLANK
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION
J	JUNCTION BOX
MC/ER / MDF	MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME
+N	INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVICE FROM FINISH FLOOR UNLESS NOTED OTHERWISE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
TCP	TEMPERATURE CONTROL PANEL
TR / IDF	TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME
T.T.B.	TELEPHONE TERMINATION BOARD
TV	TELEVISION
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VC	VOLUME CONTROL
W	WALL MOUNTED
V.I.	VIDEO INPUT LOCATION
D	DEMO TABLE
WG	WIRE GUARD
R	RELEASE
DF	DUAL FACE
WP	WEATHER PROOF
VO	VIDEO OUTPUT
PTZ	PAN TILT ZOOM
ETR	EXISTING TO REMAIN
VP	VIDEO PROJECTOR
S	SURFACE MOUNTED

OWNER / CONTRACTOR RESPONSIBILITY MATRIX	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL	NOTES
ACCESS CONTROL CARD READERS	YES	YES	NO	NO	
AV PROJECTOR AND MOUNTS	NO	YES	YES	NO	PROJ PLATES AND MOUNTS EXISTING
AV PROJECTOR MISC. CABLING (IN WALL)	YES	YES	NO	NO	TYPICAL - EPSON EB L260F
AV MANUAL SCREENS	N/A	N/A	N/A	N/A	TYPICAL - 60"X96" - DRAPER LUMA 2
AV MONITORS AND MOUNTS	NO	YES	YES	NO	HALLWAY MOUNTS FALL TO DIV 27
AV MONITORS MISC. CABLING (IN WALL)	YES	YES	NO	NO	
AV MONITOR PATCH CABLES	YES	YES	NO	NO	
FIBER BACKBONE	YES	YES	NO	NO	
FIBER TERM AND TEST	YES	YES	NO	NO	
FIBER ENCLOSER WITH LC COUPLER PANEL	YES	YES	NO	NO	
NETWORK EQUIPMENT	NO	NO	YES	YES	
NETWORK SFP	NO	NO	YES	YES	
IDF RACKS	YES	YES	NO	NO	
CLASSROOM SOUND REINFORCEMENT	NO	YES	YES	NO	REUSE EXISTING CLASSROOM SOUND SYSTEMS
SURVEILLANCE CAMERAS	YES	YES	NO	NO	
SURVEILLANCE CAMERAS CAT6 CABLING	YES	YES	NO	NO	
WIRELESS ACCESS POINTS	NO	YES	YES	NO	
WIRELESS ACCESS POINTS CAT6A CABLING	YES	YES	NO	NO	
LGI AND STEAM LAB COMPLETE A/V SYSTEMS	YES	YES	NO	NO	CONTRACTOR TO PROVIDE AND INSTALL ALL NEW TURNKEY SYSTEMS ACOORDING TO DETAILS & SPECS
MUSIC ROOM SOUND SYSTEM	YES	YES	NO	NO	
CLOCK SYSTEM	NO	NO	YES	YES	
INTERCOM SYSTEM	YES	YES	NO	NO	EXISTING CAREHAWK HEADEND - UPDATE WIRING & DEVICES
INTRUSION DETECTION SYSTEM	YES	YES	NO	NO	

2 CONTRACTOR - OWNER RESPONSIBILITY

N.T.S.

1

CCS TYPICAL MONITOR AREA/SIZING	CONTRACTOR INSTALL ONLY
HALLWAYS - DIV 27 PROVIDE MOUNTS	48"
SMALL POD CONFERENCE ROOM	55"
COUNSELOR OFFICE	55"
SRO OFFICE	55"
ADMINISTRATION OFFICES	65"
ADMINISTRATION CONFERENCE ROOM	65"
PODS	65"
MOBILE CARTS	65"
MAIN CONFERENCE ROOM	75"

3 CCS TYPICAL MONITOR SIZING

N.T.S.

VERIFICATION NOTE:

CONTRACTOR TO INCLUDE REMOVAL & RELOCATION OF DIVISION 27 & 28 CABLING AND EQUIPMENT IN ACCORDANCE WITH THE PROJECT SCHEDULE IN ORDER TO MAINTAIN BUILDING SERVICES TO AREAS THAT REMAIN OCCUPIED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES AND EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED CONTACT THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK.

TECHNOLOGY CABLING/TERMINATION COLOR LEGEND

SYSTEM	TERMINATION (RJ45)	CABLE	PATCH CABLE - CLOSET END	PATCH CABLE - USER END
DATA / PHONE	BLUE	BLUE	BLUE	BLACK
WIRELESS - DUAL 6A	WHITE	WHITE	WHITE	WHITE
CAMERA / SERVERS	PURPLE	PURPLE	PURPLE	PURPLE
ACCESS CONTROL	YELLOW	YELLOW	YELLOW	YELLOW
HVAC	RED	RED	RED	RED

4 TECHNOLOGY CABLING/TERMINATION COLOR LEGEND

N.T.S.

HANWHA CAMERA LOCATION	CAMERA PART NUMBER AND DESCRIPTION	OTHER
GENERAL HALLWAY	QNV-8080R - 5M H.265 IR DOME CAMERA	
	PNM-7082RVD - 2MP X 2CH MULTIDIRECTIONAL CAMERA	
	PNM-8082VT - 2MP X 3CH MULTIDIRECTIONAL CAMERA	
VESTIBULE	PNM-7082RVD - 2MP X 2CH MULTIDIRECTIONAL CAMERA	AI PHONE
OUTDOOR	PNM-9085RQZ - 5MP X 4CH IR PTRX MULTIDIRECTIONAL CAMERA	

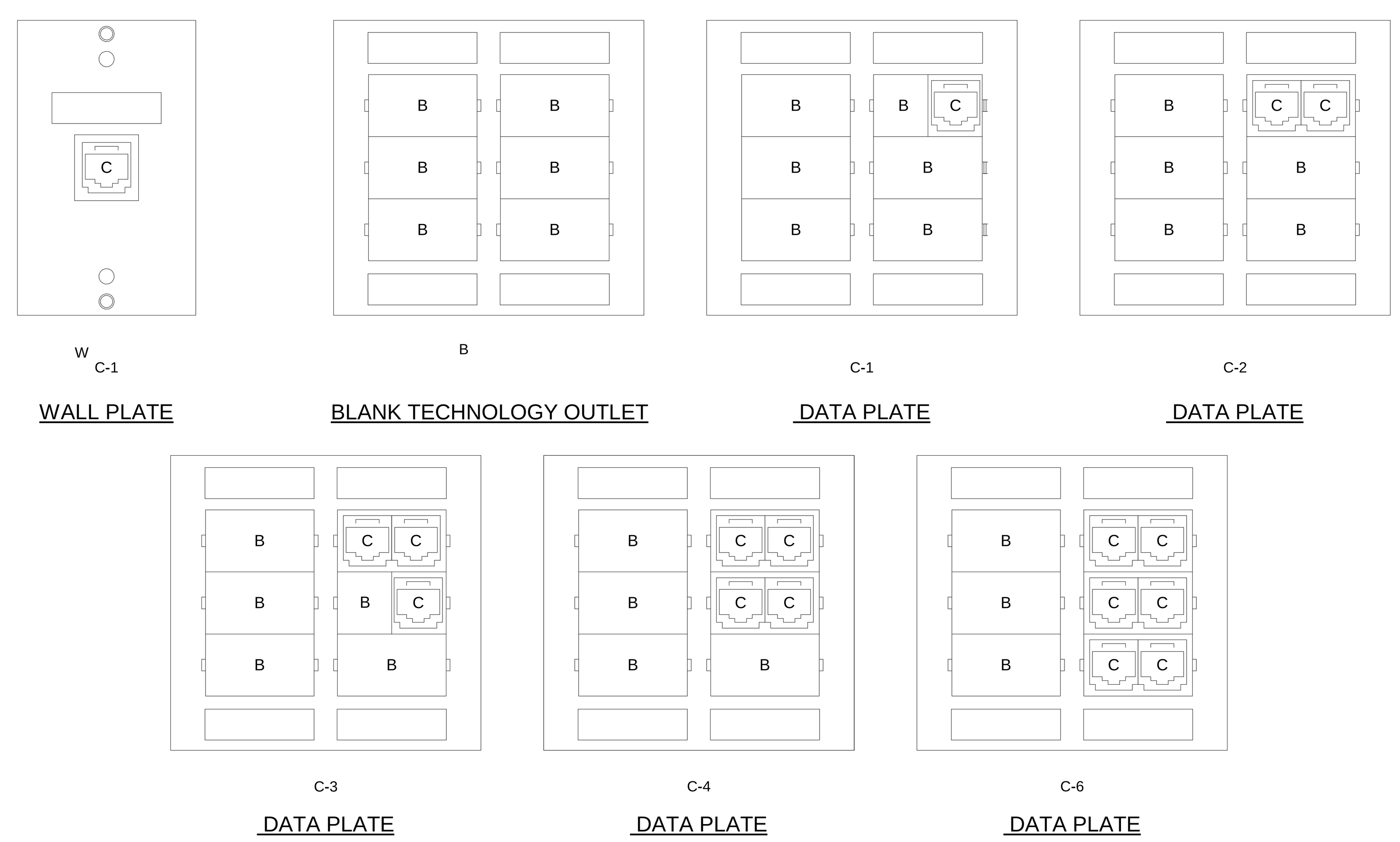
5 CAMERA MODEL MATRIX

N.T.S.

CAMERA NUMBER	CAMERA TYPE	CAMERA NUMBER	CAMERA TYPE	CAMERA NUMBER	CAMERA TYPE	CAMERA NUMBER	CAMERA TYPE	CAMERA NUMBER	CAMERA TYPE	CAMERA NUMBER	CAMERA TYPE	CAMERA NUMBER	CAMERA TYPE
1	PNM-9085RQZ	11	QNV-8080R	21	QNV-8080R	31	PNM-9085RQZ	41	PNM-7082RVD	51	PNM-7082RVD	61	PNM-7082RVD
2	PNM-9085RQZ	12	PNM-8082VT	22	PNM-7082RVD	32	PNM-7082RVD	42	PNM-7082RVD	52	PNM-9085RQZ	62	QNV-8080R
3	QNV-8080R	13	PNM-9085RQZ	23	PNM-7082RVD	33	QNV-8080R	43	QNV-8080R	53	QNV-8080R	63	PNM-7082RVD
4	QNV-8080R	14	QNV-8080R	24	PNM-9085RQZ	34	PNM-7082RVD	44	QNV-8080R	54	QNV-8080R	64	
5	QNV-8080R	15	QNV-8080R	25	QNV-8080R	35	PNM-7082RVD	45	QNV-8080R	55	PNM-7082RVD	65	
6	QNV-8080R	16	PNM-7082RVD	26	QNV-8080R	36	QNV-8080R	46	QNV-8080R	56	QNV-8080R	66	
7	PNM-9085RQZ	17	PNM-7082RVD	27	PNM-9085RQZ	37	PNM-7082RVD	47	PNM-7082RVD	57	QNV-8080R	67	
8	PNM-7082RVD	18	PNM-8082VT	28	QNV-8080R	38	PNM-9085RQZ	48	QNV-8080R	58	PNM-9085RQZ	68	
9	PNM-7082RVD	19	PNM-7082RVD	29	QNV-8080R	39	QNV-8080R	49	PNM-7082RVD	59	PNM-9085RQZ	69	
10	QNV-8080R	20	PNM-7082RVD	30	QNV-8080R	40	QNV-8080R	50	PNM-9085RQZ	60	PNM-9085RQZ	70	

7 CAMERA LOCATION MATRIX

N.T.S.



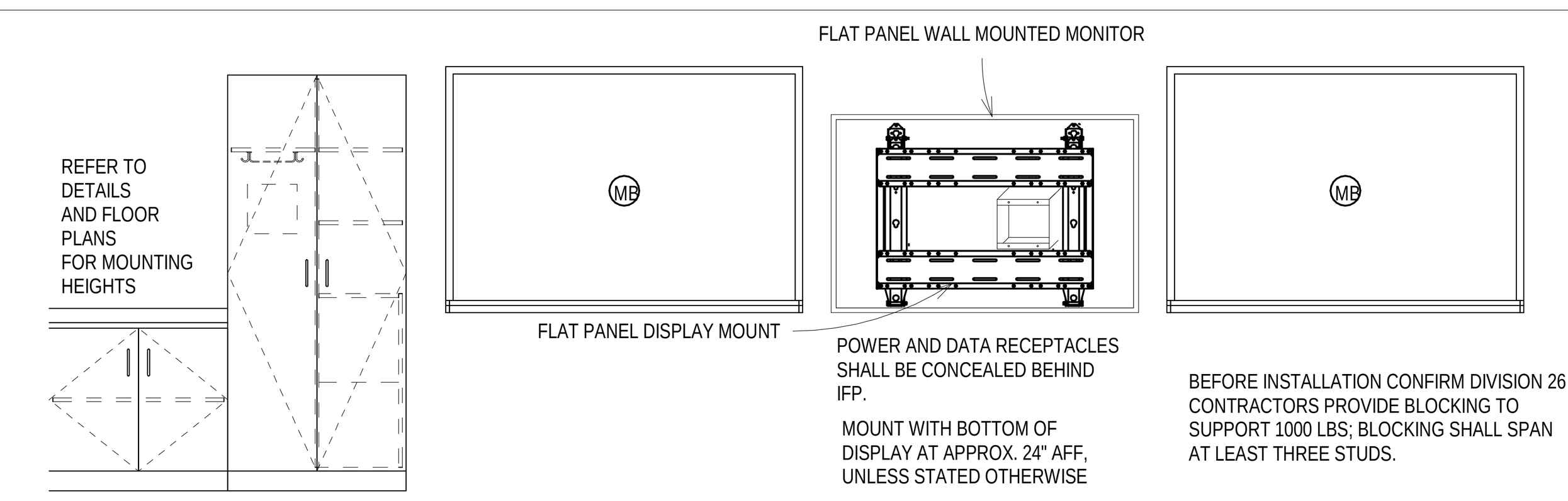
NOTE:
REFER TO AV WIRING DETAILS FOR EXACT CONFIGURATIONS OF VIDEO INPUT (V.I.), VIDEO OUTPUT (VO), AND AV CABINET LOCATIONS..

TECHNOLOGY FACEPLATE ABBREVIATIONS

C - RJ45 DATA JACK
B - BLANK INSERT
WB - RJ-45 JACK FOR USB INTERACTIVITY
HD - RJ45 JACK FOR VIDEO
3.5mm - 3.5mm JACK
HDMI - HDMI CONNECTOR

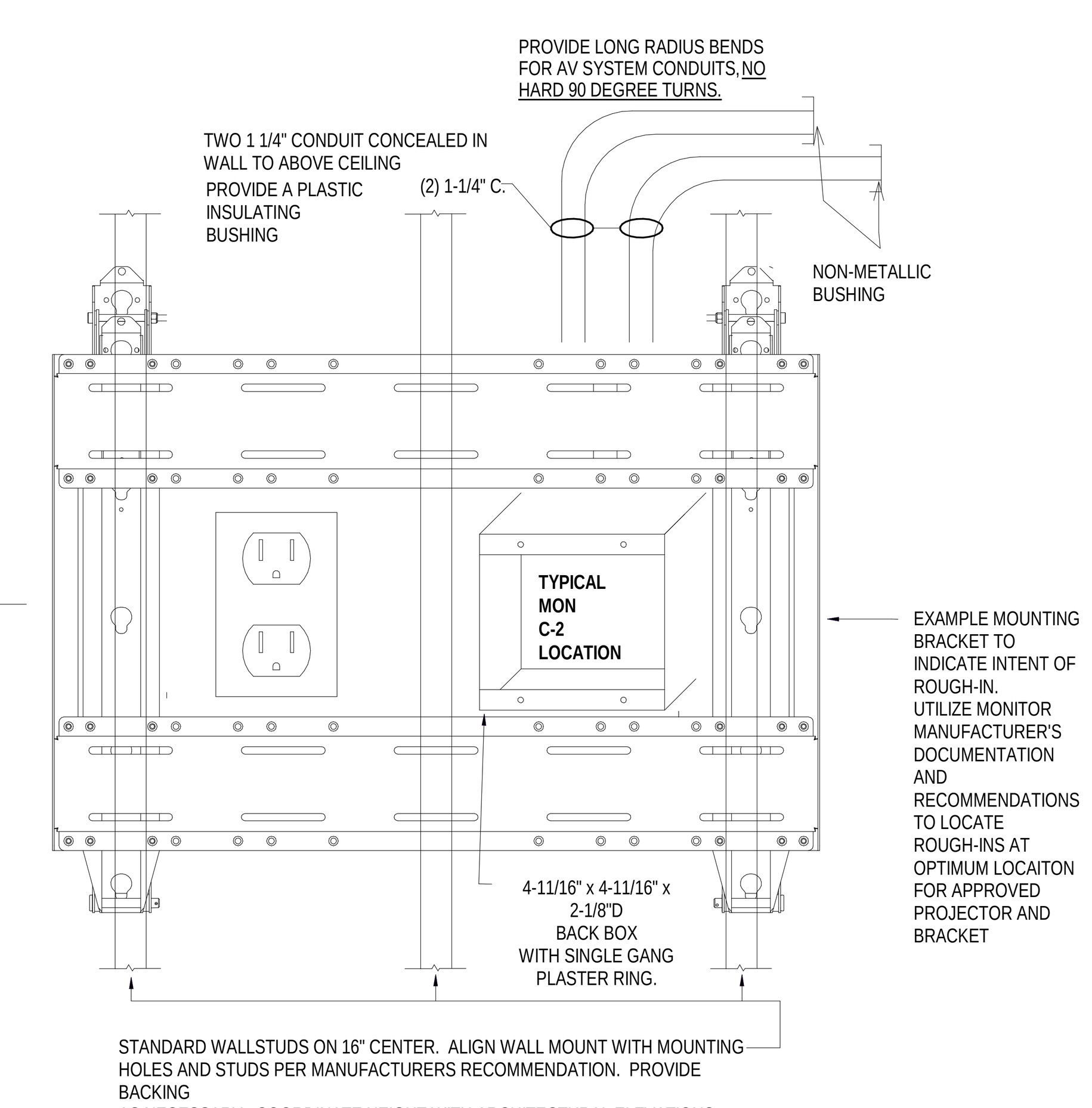
WALL PLATE CONFIGURATIONS

NOT SCALE



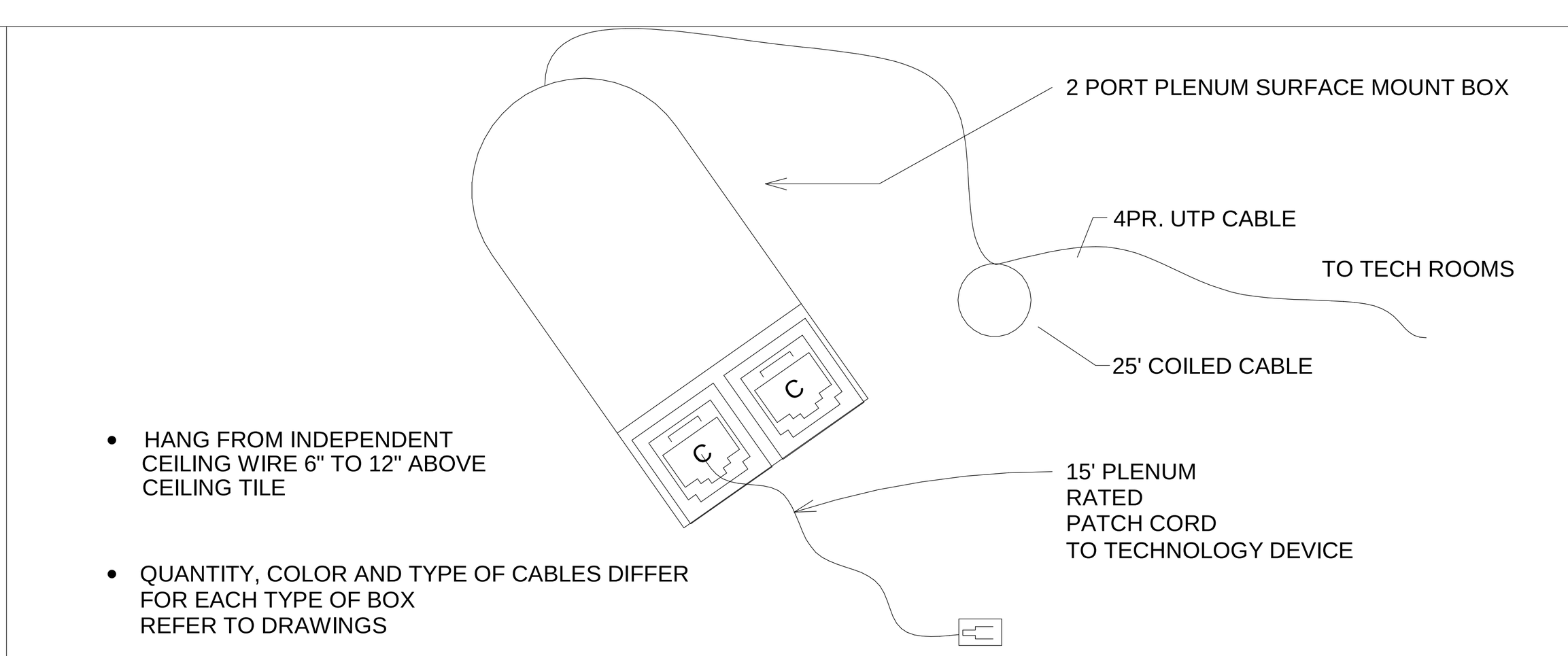
REFER TO T1.01 #3 FOR TYPICAL MONITOR SIZES AND DETAILS

TYPICAL WALL MOUNTED FLAT PANEL ELEVATION



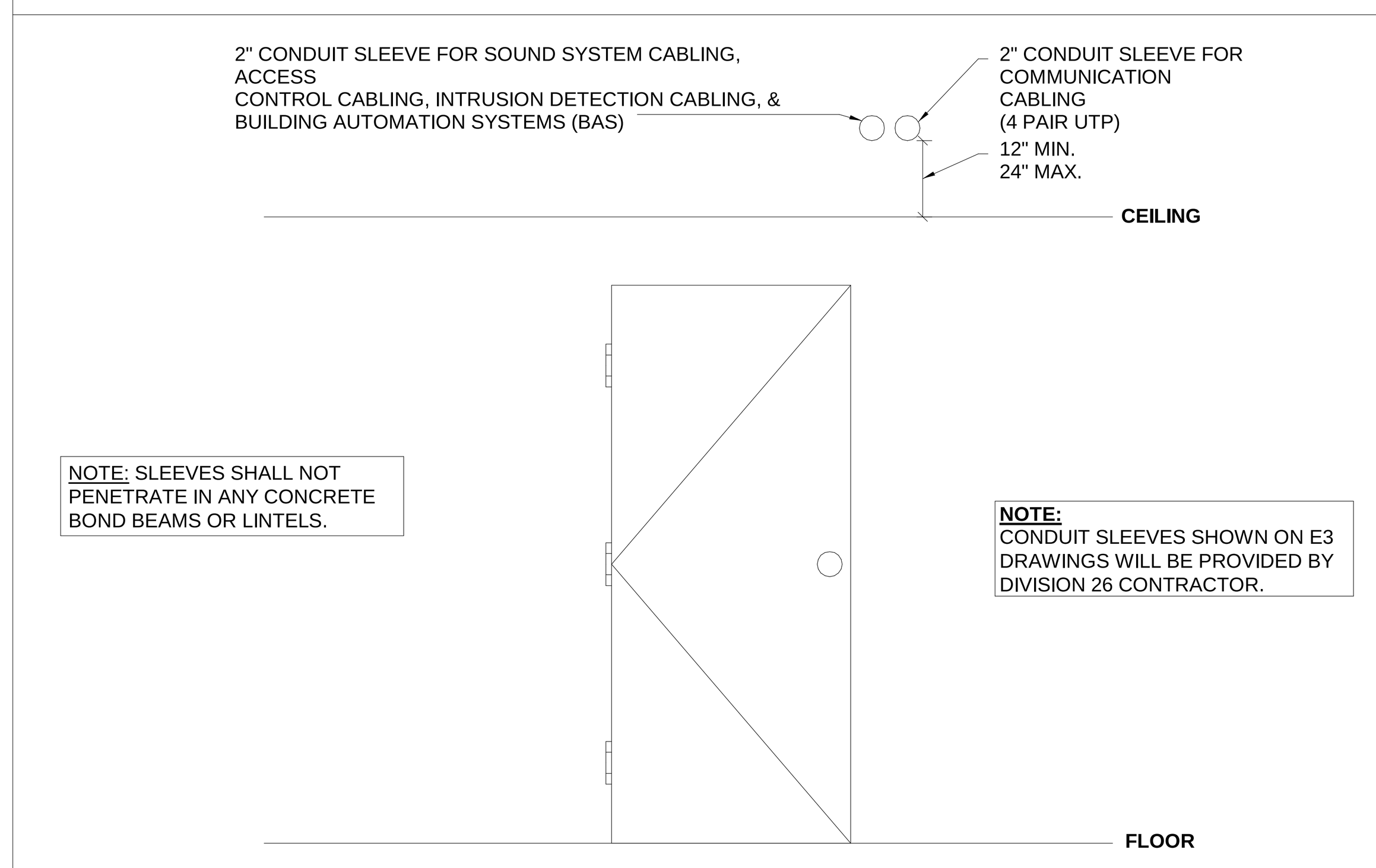
TYPICAL FLAT PANEL DETAIL

6 FLAT PANEL DETAIL1



TYPICAL ABOVE CEILING JUNCTION BOX - WIRING DETAIL

NOT SCALE



CONDUIT SLEEVES DETAIL

NOT SCALE

SMOKY ROW ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

900 W 136th St, Carmel, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT
FANNING HOWEY
317-848-0966 WWW.FHAI.COM
350 E. New York St, Indianapolis IN 46204

BID SET

BRIAN W. BUTLER REGISTERED No. PE11600305 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: KRS
DRAWN BY: CDT
PROJECT NUMBER: 222033.00
PROJECT ISSUE DATE: 11/20/2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12-19-25

TECHNOLOGY DETAILS

T1.01

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