



Thunder Bay
COMMUNITY HEALTH SERVICE, INC.

Request for Proposal

Thunder Bay Community Health Service, Inc. will receive sealed bid proposals for construction trade work from qualified General Contractors for the interior remodel for a school-based health center, and related electrical, mechanical, and plumbing work at the Rogers City Elementary school located at 532 W. Erie St, Rogers City, MI 49779.

Sealed BIDS will be received by mail or hand delivered to Thunder Bay Community Health Service, Inc. attn: Leighann Viers at 100 Ripley St, Suite E, Alpena, Michigan 49707 prior to the bid opening, until 3:00 PM, (Local Time) July 15, 2024. All bids received after 4:00 PM will be returned to the Bidder unopened. Sealed bids will be opened publicly at 100 N. Ripley, Alpena, Michigan. The Owner, in addition to its other rights, reserves the right to reject any or all proposals, accept a bid other than the low bid, and to waive informalities, irregularities, and/or errors in the bid proposals, which they feel are in their own best interest. Thunder Bay Community Health Service, Inc. is tax-exempt, and their Tax ID number will be provided to the successful bidder.

Bids should be based on the following data:

- Project needs to be completed by October 1, 2024.
- Project needs to be final invoiced by September 15, 2024.
- Include start date and completion date with bid.
- Include a 5% Bid Bond or certified check with the bid.
- Include a Performance Bond for 100% of the cost of the project.
- All work will be done during normal business hours.
- General Contractors will be licensed and insured.
- Include the cost of all required permits and inspections.
- There will be a mandatory on-site pre-bid meeting on June 26, 3:00 PM.

All potential bidders shall notify Douglas Kreis of their intent to bid prior to June 25, 2024, 4:00 PM.

No unapproved site visits will be allowed.

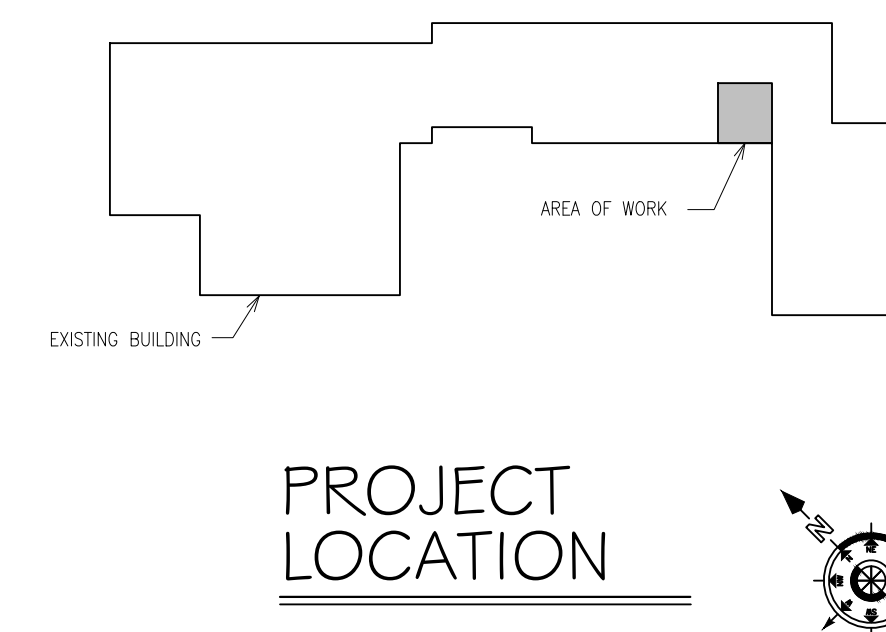
Any questions regarding the bidding procedures, design and drawing/specification please contact **Douglas Kreis at dkreis@tbchs.org.**

THUNDER BAY COMMUNITY HEALTH SERVICE, INC. ROGERS CITY AREA SCHOOLS SCHOOL BASED HEALTH CENTER

532 W. ERIE STREET
ROGERS CITY, MICHIGAN 49779

OWNER'S ADDRESS:

THUNDER BAY COMMUNITY
HEALTH SERVICE, INC.
15774 STATE STREET
HILLMAN, MI 49746



DRAWING INDEX

TS	TITLE SHEET
A1	FLOOR PLAN AND DEMOLITION PLAN
A2	CASEWORK
A3	ROOM FINISH, WINDOW AND DOOR SCHEDULES

GENERAL NOTES

- THE CONTRACT DOCUMENTS DO NOT ATTEMPT TO DIVIDE AND ASSIGN WORK TO THE SUB-CONTRACTOR(S). VERIFY WITH THE OWNER (GENERAL CONTRACTOR) ALL ASSIGNMENTS OF WORK, ESPECIALLY THOSE ITEMS WHICH COULD BE ASSIGNED TO VARIOUS/MULTIPLE SUB-CONTRACTORS.
- THE DRAWINGS ARE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE GENERAL DESIGN INTENT AND LOCATION OF THE WORK.
- IN CASE OF DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES WITHIN THE CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER OR OWNER IN WRITING. THE TERM "MOST STRINGENT REQUIREMENT" SHALL MEAN THAT WHICH IS THE MORE RIGOROUS OR EXACTING AND THAT WHICH WILL RESULT IN THE BETTER QUALITY AFFECTED PART OF THE WORK.
- EACH CONTRACTOR SHALL INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF HIS PORTION OF THE WORK TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.
- THE DRAWINGS ARE NOT INTENDED AS DOCUMENTATION OF THE SPECIFIC EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. DO NOT SCALE OR RELY UPON THE DRAWINGS FOR EXISTING CONDITIONS AND MEASUREMENTS THEREOF. EACH CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS, SIZES, PROFILES, ELEVATIONS, QUANTITIES, MATERIALS, ETC., OF ALL EXISTING CONDITIONS AFFECTING HIS PORTION OF THE WORK.
- DETAILS INCLUDED IN THE DRAWINGS ARE INTENDED TO SHOW GENERAL DESIGN INTENT ONLY. THEY ARE NOT INTENDED TO SERVE AS SHOP DRAWINGS OR OTHER FORM OF GUIDE FOR FABRICATION OR INSTALLATION PURPOSES. EACH CONTRACTOR SHALL BE RESPONSIBLE TO ACHIEVE THE COMPLETE AND PROPER ASSEMBLY AND INSTALLATION OF ALL MATERIALS INCLUDED IN HIS PORTION OF THE WORK AND TO PROVIDE SUBMITTALS AS MAY BE REQUIRED FOR ALL FABRICATED ITEMS INCLUDED THEREIN.
- CONTRACTOR WILL SUPPLY TEMPORARY JOB SITE OFFICE TRAILERS, TOOL SHEDS, TELEPHONE, TOILET, ELECTRICAL OUTLETS, LIGHTING, HEATING DEVICES, WATER, ETC., AS REQUIRED FOR CONSTRUCTION. OWNER WILL PAY UTILITY COST FOR NORMAL AMOUNTS OF ELECTRICITY AND NATURAL GAS USED DURING CONSTRUCTION. CONTRACTOR WILL NOT USE THE PERMANENT HEATING SYSTEM FOR TEMPORARY HEATING UNLESS APPROVED BY OWNER.
- CONTRACTOR WILL DISPOSE OF ALL DEMOLITION AND CONSTRUCTION WASTE OFF OF SITE. OWNER HAS FIRST REFUSAL OF DEMOLITION WASTE.
- UPON COMPLETION, CONTRACTOR WILL REMOVE FROM THE PREMISES ALL SURPLUS MATERIAL AND RUBBISH. FINAL CLEANING WILL INCLUDE: CLEAN OR RE-CLEAN ENTIRE WORK TO NORMAL LEVEL FOR "FIRST CLASS" MAINTENANCE/CLEANING OF BUILDING PROJECTS OF A SIMILAR NATURE; REMOVE NON-PERMANENT PROTECTION AND LABELS; POLISH GLASS, CLEAN EXPOSED FIXTURES, TOUCH UP MINOR FINISH DAMAGE, CLEAN OR REPLACE FILTERS OF MECHANICAL SYSTEMS; REMOVE DEBRIS AND BROOM-OR CLEAN NON-OCCUPIED SPACES; SANITIZE PLUMBING/FOOD SERVICE FACILITIES; CLEAN LIGHT FIXTURES AND REPLACE BURNED OUT OR DIMMED LAMPS; SWEEP AND WASH PAVED AREAS, POLICE YARDS AND GROUNDS; AND PERFORM SIMILAR CLEANUP NEEDED TO PRODUCE A "CLEAN" CONDITION.
- OWNER WILL SUPPLY BUILDER'S RISK INSURANCE ON ALL NEW CONSTRUCTION. OWNER WILL SUBMIT TO CONTRACTOR A CERTIFICATE OF INSURANCE FOR THIS BEFORE START OF CONSTRUCTION.
- CONTRACTOR WILL SUPPLY WORKER'S COMPENSATION INSURANCE, GENERAL LIABILITY INSURANCE, AND AUTOMOTIVE INSURANCE. CONTRACTOR WILL SUBMIT TO OWNER A CERTIFICATE OF INSURANCE FOR THESE ITEMS BEFORE START OF CONSTRUCTION.
- ALL CONTRACTORS WILL CLEAN UP AFTER THEIR WORK, AND DISPOSE OF OFF SITE AT LOCAL LANDFILL. SITE BURNING IS PROHIBITED. CONTRACTOR WILL PERFORM CLEAN UP DAILY TO PREVENT THE ACCUMULATION OF DEBRIS.
- PLUMBING, MECHANICAL, AND ELECTRICAL CODES ARE THE JURISDICTION OF THE STATE OF MICHIGAN CONSTRUCTION CODE, PERMITS AND INSPECTIONS ARE REQUIRED. SEE PLUMBING, MECHANICAL, AND ELECTRICAL PLANS.
- ALL WORK MUST BE DONE IN STRICT ACCORDANCE WITH OSHA & MIOSHA.
- ALL WORK MUST COMPLY WITH THE 2015 STATE OF MICHIGAN BUILDING CODE, PERMITS AND INSPECTIONS ARE REQUIRED.
- ALL WORK WILL BE DONE BY CONTRACTORS LICENSED IN THE STATE OF MICHIGAN. ALL CONTRACTORS WILL SUPPLY THEIR REQUIRED PERMITS AND SCHEDULE THEIR RESPECTIVE INSPECTIONS.

CODE INFORMATION

- THE PROJECT HAS BEEN DESIGNED ACCORDING TO THE 2015 MICHIGAN BUILDING CODE (INCORPORATING THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE).
- MICHIGAN BUILDING CODE CLASSIFICATION OF OCCUPANCY IS MIXED USE, NON-SEPARATED EDUCATION USE GROUP "E" AND BUSINESS USE GROUP "B".
- MICHIGAN BUILDING CODE TYPE OF CONSTRUCTION IS UNPROTECTED TYPE "IB", NO SPRINKLERS.
- THIS PROJECT IS THE REMODEL OF EXISTING CLASSROOMS WITH NO ADDITIONAL AREA ADDED TO THE BUILDING. THE REMODEL AREA IS 932 SF.
- MICHIGAN BUILDING CODE OCCUPANT LOAD FOR BUSINESS USE GROUP IS 9.
- INSTALL EXIT SIGNS AND LIGHTS, AND MEANS OF EGRESS LIGHTING PER MICHIGAN BUILDING CODE.
- THE FIRE ALARM SYSTEM WILL BE DESIGNED AND SUBMITTED FOR PLAN REVIEW SEPARATELY.
- INTERIOR FINISH AND TRIM WILL BE PER MICHIGAN BUILDING CODE AND THE ROOM FINISH SCHEDULE.
- INSTALL LIGHTING AND VENTILATION PER MICHIGAN BUILDING CODE.
- MECHANICAL AND ELECTRICAL CODES ARE THE JURISDICTION OF THE STATE OF MICHIGAN AND STATE PERMITS ARE REQUIRED.
- ALL WORK AND THE ENTIRE BUILDING MUST COMPLY WITH THE STATE OF MICHIGAN'S BARRIER FREE LAW AND THE AMERICAN'S WITH DISABILITIES ACT.
- DESIGN LOADS:

FLOOR LIVE LOAD	
OFFICES	40 PSF
CORRIDORS	100 PSF
SNOW LOAD	
GROUND SNOW LOAD	50 PSF
SNOW EXPOSURE FACTOR	1.0
SNOW LOAD IMPORTANCE FACTOR	1.1
THERMAL FACTOR	1.1
WIND LOAD	
BASIC WIND SPEED (3 SEC. GUST)	115 MPH
WIND EXPOSURE CATEGORY	C
SEISMIC DESIGN	
SEISMIC DESIGN CATEGORY	A
SEISMIC SITE CLASS	D

PROJECT LOCATION:
ROGERS CITY
PRESQUE ISLE COUNTY

BRUCE DIETZ
100 N. RIPLEY
ALPENA, MI 49707

THIS IS A PRELIMINARY DRAWING. THE PROVISIONS OF THIS DRAWING ARE NOT TO BE USED FOR CONSTRUCTION. ANY CHANGES OR MODIFICATIONS MUST BE APPROVED BY THE ARCHITECT. THE ARCHITECT'S OFFICE SHALL BE NOTIFIED OF ANY SUCH CHANGES OR MODIFICATIONS.

TITLE SHEET

PROJECT
TBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

ISSUED
RFP JUN 7, 2024

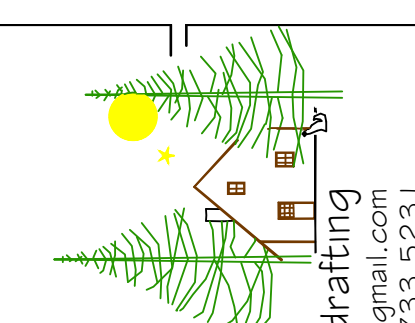
ENGINEER

DESIGNER

JOB NUMBER
2403.01

SHEET NO.

TS



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Tel: 989.733.5231

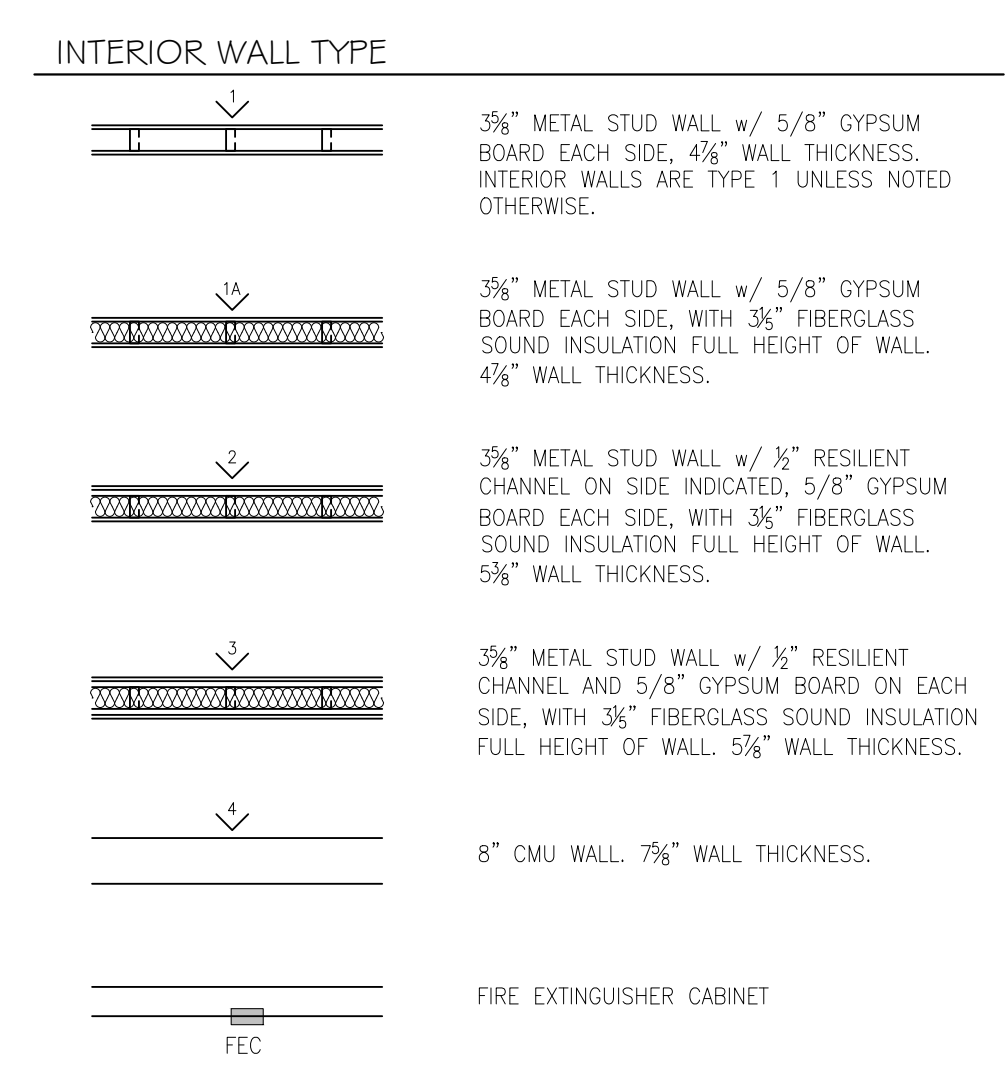
CONTRACTOR SHALL VERIFY THE EXISTENCE OF ALL UTILITIES AND REMOVE ALL UTILITIES AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

PROJECT TITLE
FLOOR PLAN

PROJECT
IBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

ISSUED
REV. JUN 7, 2024
ENGINEER
DESIGNER
JOB NUMBER
2403.01
SHEET NO.

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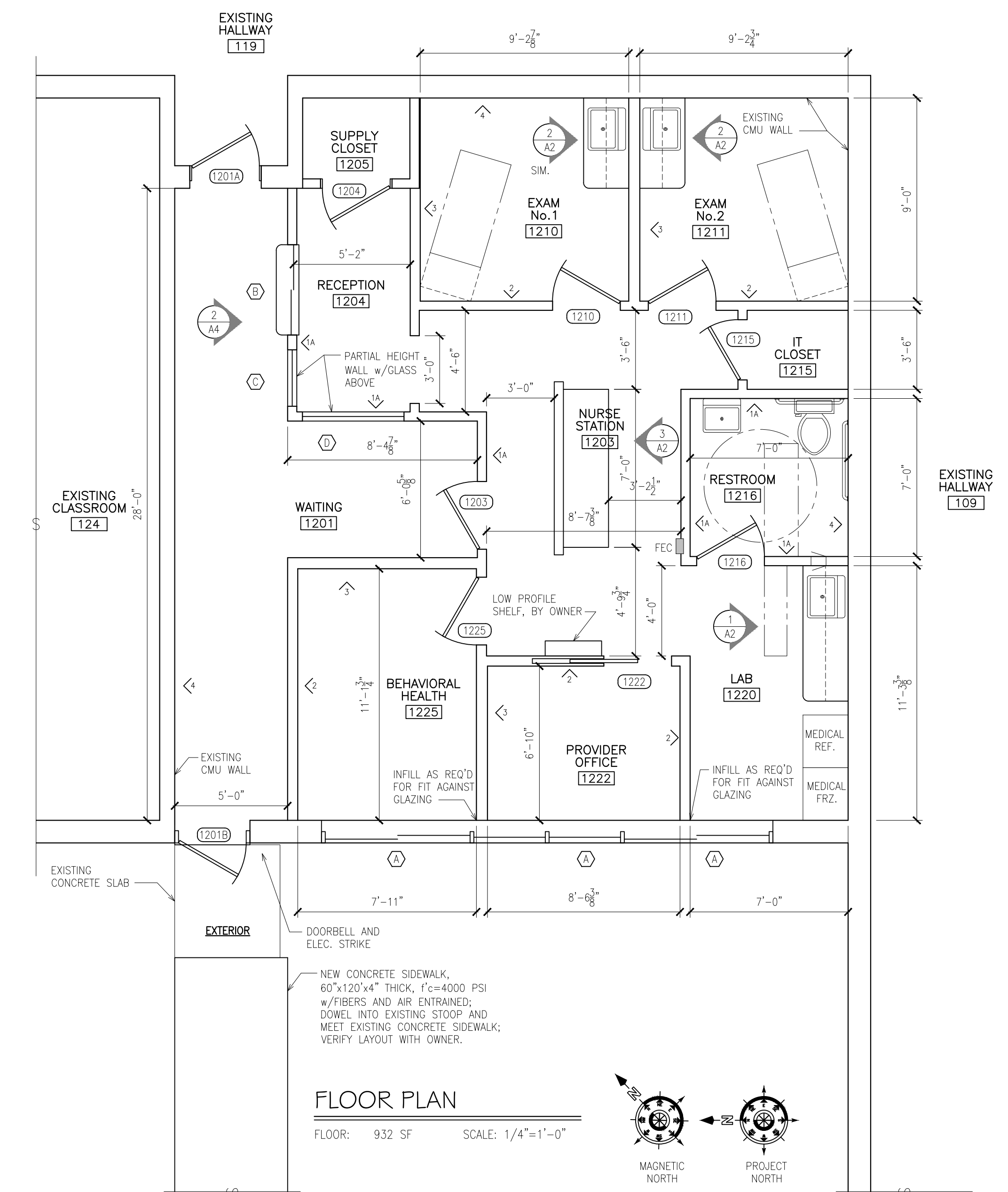
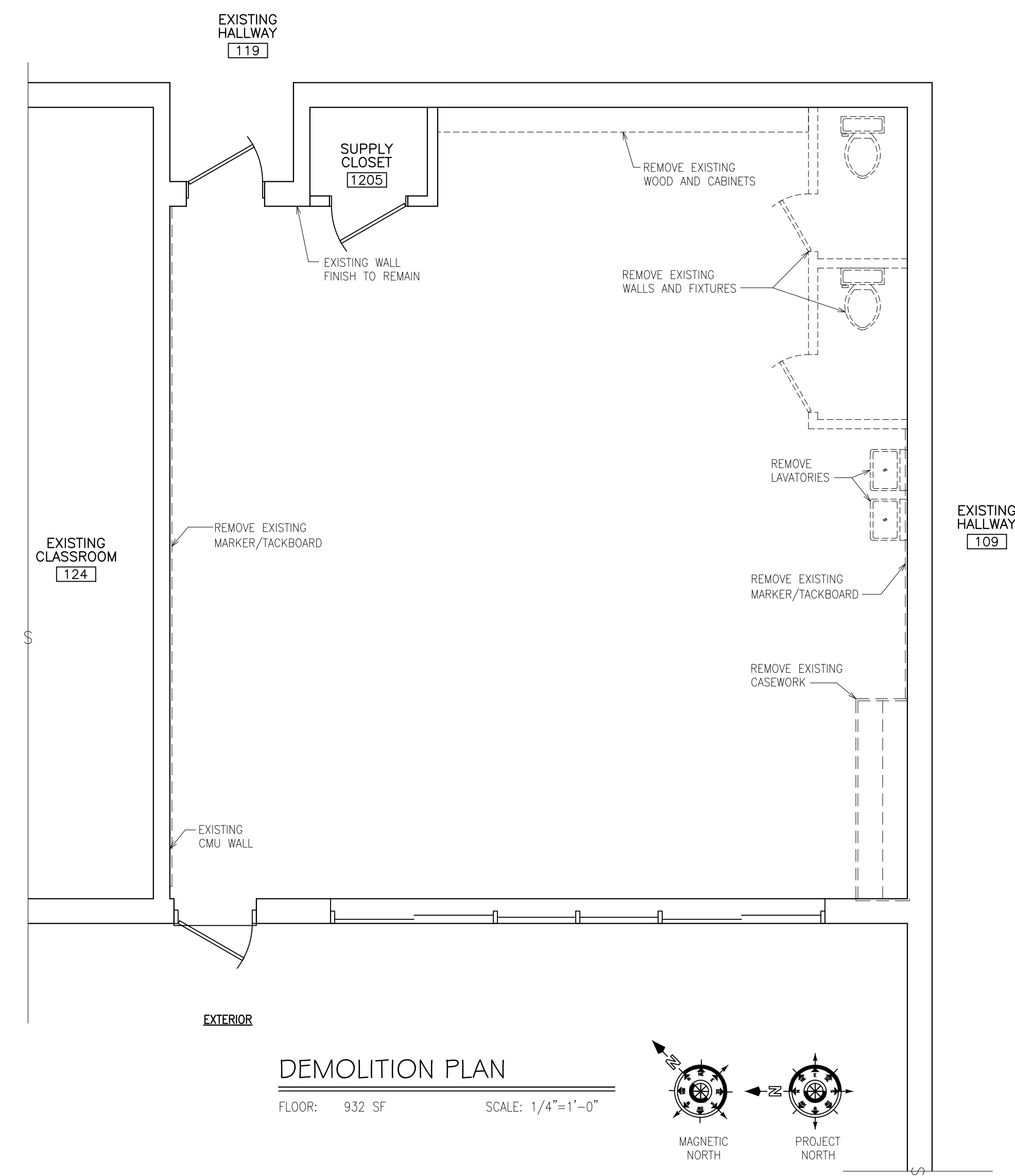


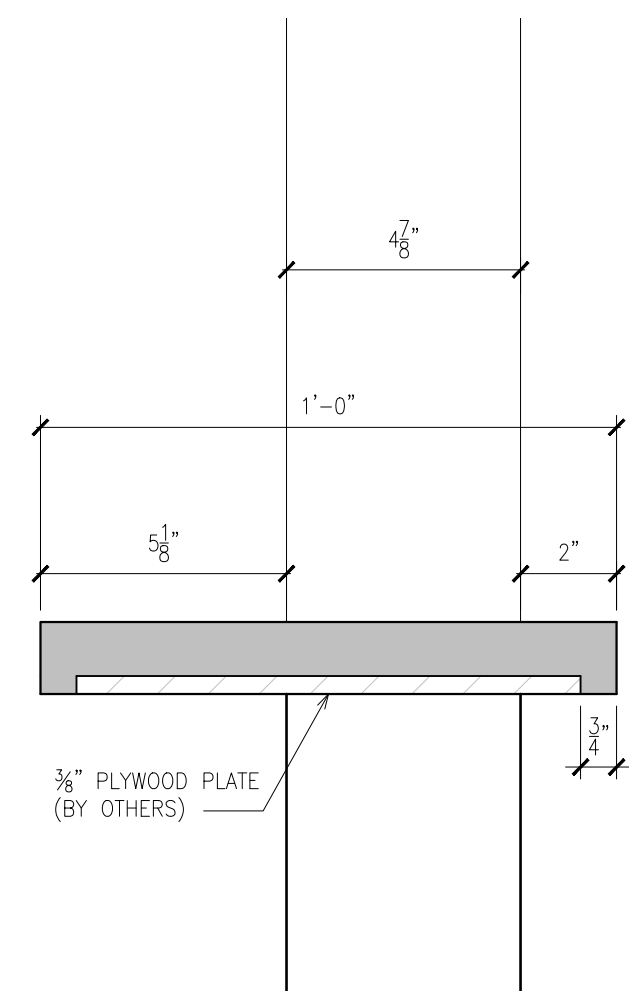
- ### DEMOLITION NOTES
- DUE TO THE AGE OF THE EXISTING BUILDING, PIPE INSULATION AND VINYL FLOOR TILE MAY CONTAIN ASBESTOS AND PAINT MAY CONTAIN LEAD, PROPER WORKMANSHIP AND DISPOSAL OF THESE ITEMS IS REQUIRED. THE OWNER WILL ATTEMPT TO HAVE THE AREA TESTED PRIOR TO THE START OF CONSTRUCTION.
 - SEE PLUMBING, MECHANICAL, AND ELECTRICAL SHEETS FOR ADDITIONAL EXISTING AND DEMOLITION INFORMATION.
 - THE ACCESSIBLE PORTION OF ABANDONED SUPPLY CIRCUITS AND CABLES SHALL BE REMOVED.
 - REMOVE EXISTING SUSPENDED CEILING, GRID AND FIXTURES.
 - REMOVE EXISTING VINYL WALL BASE IN AREA OF WORK.
 - ROGERS CITY AREA SCHOOLS HAS FIRST RIGHT OF REFUSAL FOR ANY REMOVED MATERIAL.
 - NO STRUCTURAL ELEMENTS ARE BEING REMOVED.

- ### FLOOR PLAN NOTES
- THE THICKNESS OF THE WALLS ARE AS INDICATED ON THE PRINTS.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE THE START OF CONSTRUCTION.
 - THE TYPICAL DOOR CORNER DETAIL IS 3" ROUGH FRAMING FROM CORNER AND 4" TO SWING OF DOOR.
 - ALL NEW WALL FRAMING WILL BE LIGHT GA. METAL STUDS @ 16" O.C., FULL HEIGHT TO ROOF DECK
 - INSTALL FIRESTOPPING (OR FIREBLOCKING) AT ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS OVER CABINETS, DROP CEILINGS AND SIMILAR LOCATIONS.
 - ALL NEW WALLS WILL HAVE FULL CAVITY SOUND INSULATION. INSULATION WILL BE SUPPORTED ABOVE TOP OF GYPSUM BOARD.
 - ALL GYPSUM BOARD WILL BE 5/8" THICK TYPE 'X', AND EXTEND A MINIMUM OF 12" ABOVE SUSPENDED CEILING GRID.
 - DO NOT ALLOW DISSIMILAR METALS TO COME INTO CONTACT WITH EACH OTHER. DISSIMILAR METALS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, ALUMINUM, ZINC, IRON (STRUCTURAL STEEL), TIN, LEAD, AND COPPER.
 - TYPICALLY INTERIOR DIMENSIONS ARE GIVEN TO THE FINISHED FACE OF THE WALL/PARTITION. DIMENSIONS CORRELATING TO EXTERIOR WALLS ARE TYPICALLY TO THE OUTSIDE FACE OF THE CMU UNLESS NOTED OTHERWISE.
 - ALL CONCRETE, MASONRY, AND GYPSUM BOARD CONTROL JOINTS, EXPANSION JOINTS AND SAWCUTS WILL COMPLY WITH ASTM C 94; ACI 301; ACI 318; ACI 530.1; ASCE 6; TMS 602; GA 216; GA 600 AND INDUSTRY STANDARDS.

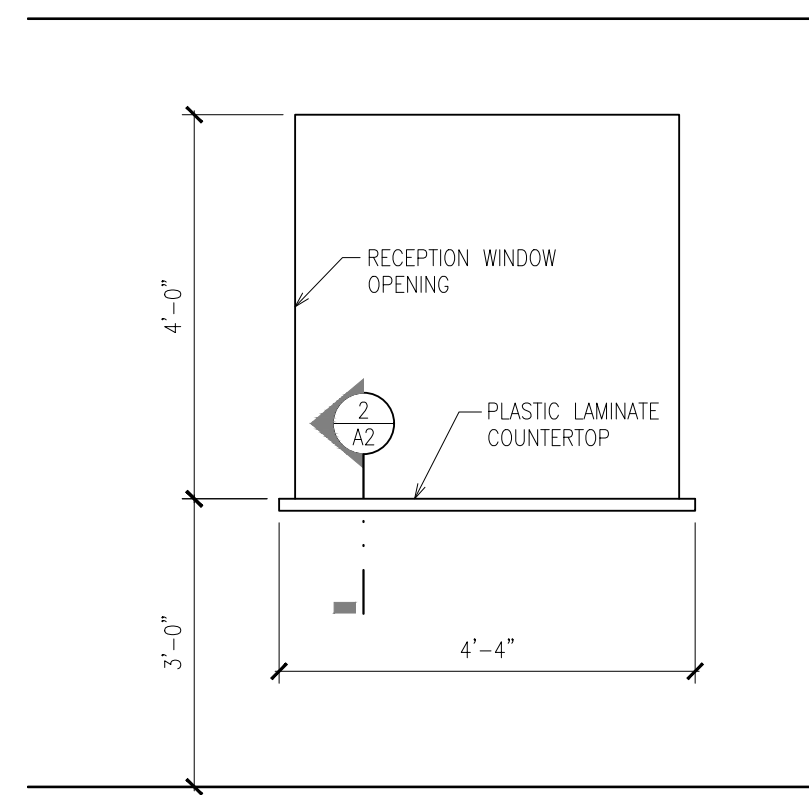
- ### REFLECTED CEILING PLAN NOTES
- VERIFY CEILING GRID LAYOUT WITH ELECTRICAL AND LIGHTING CONTRACTOR.
 - SUSPENDED CEILING TILE WILL BE USG, RADAR STYLE, 24"x24", WITH SHADOW LINE, TAPERED EDGE. GRID WILL BE WHITE, DIRECT SUSPENSION SYSTEM, WITH INTERMEDIATE DUTY STRUCTURAL CLASSIFICATION.
 - SUSPENDED CEILING GRID WILL BE SUSPENDED WITH LAG SCREWS AND TIE WIRE PER THE MANUFACTURER'S RECOMMENDATIONS.

- ### LIGHTING NOTES
- REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION
 - LIGHT FIXTURES WILL NOT BE SUPPORTED BY THE CEILING GRID.

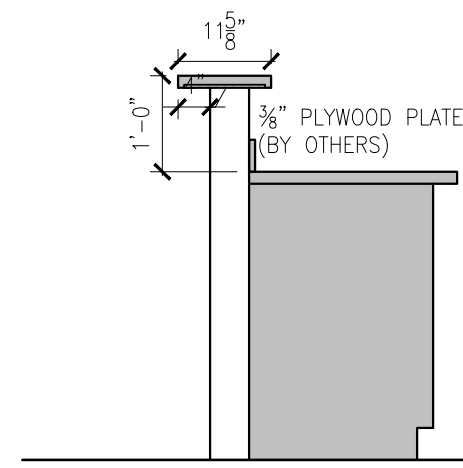




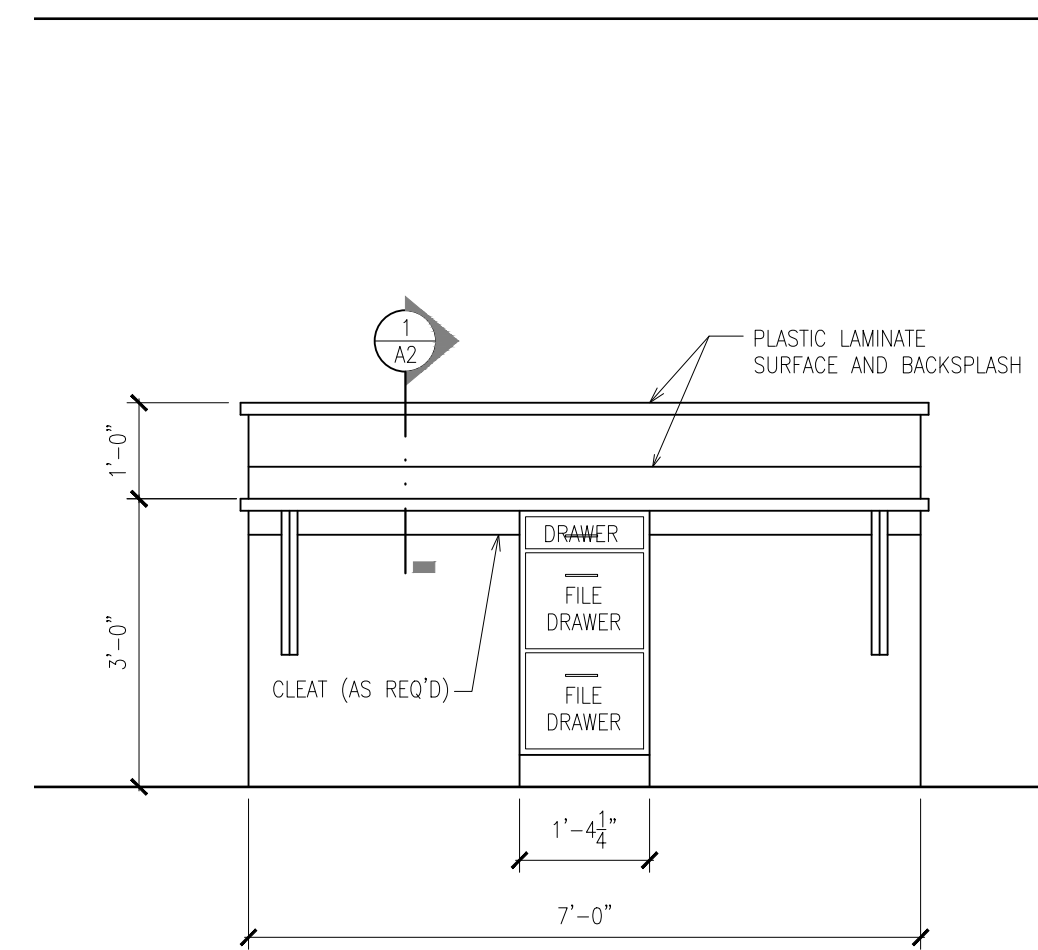
SECTION 2
SCALE: 3" = 1'-0"



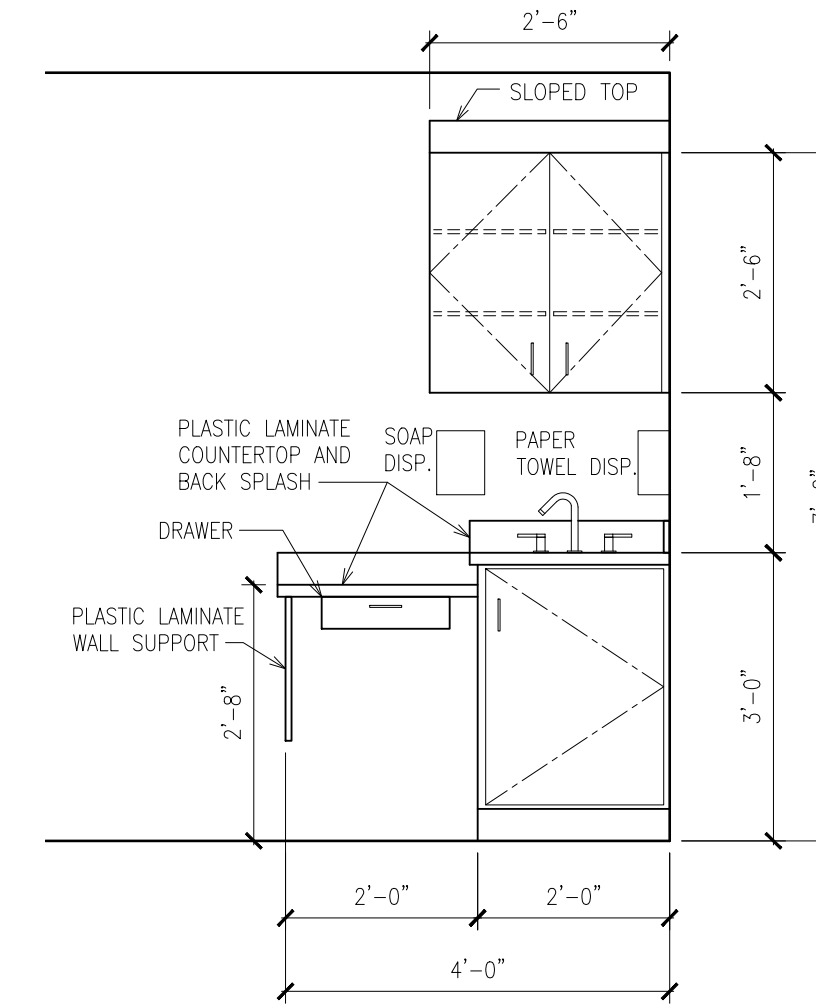
ELEVATION 4
SCALE: 1/2" = 1'-0"



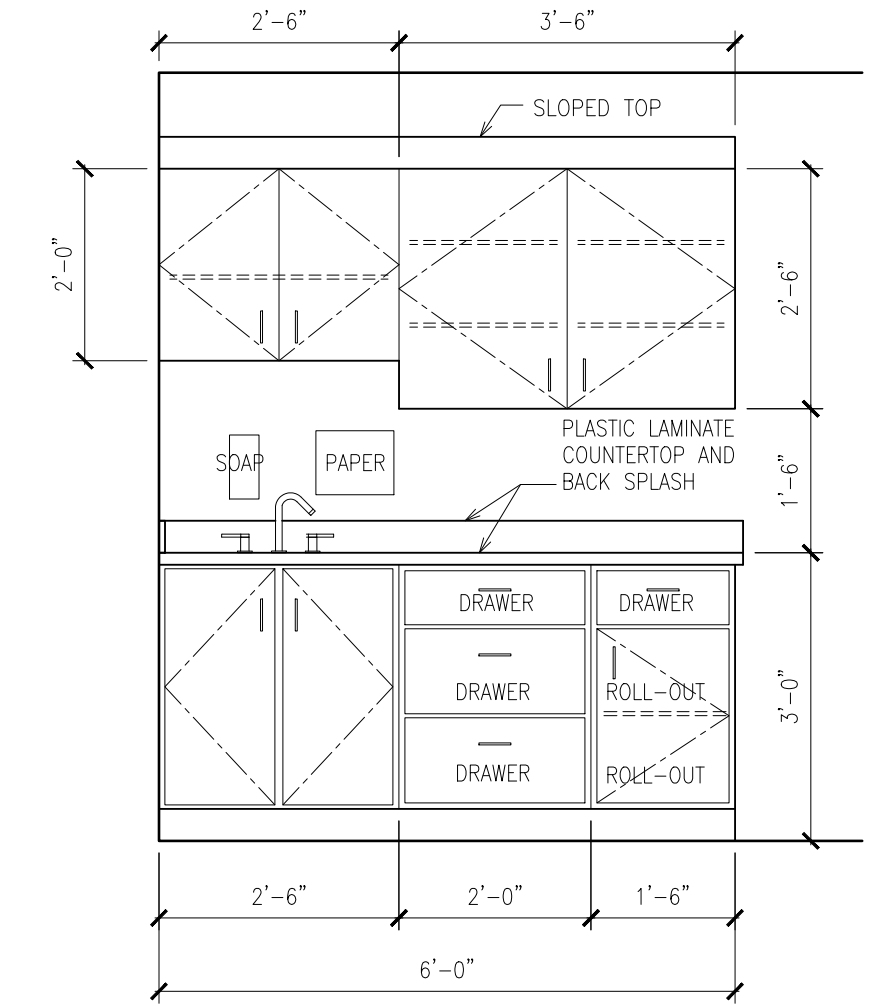
SECTION 1
SCALE: 3" = 1'-0"



ELEVATION 3
SCALE: 1/2" = 1'-0"



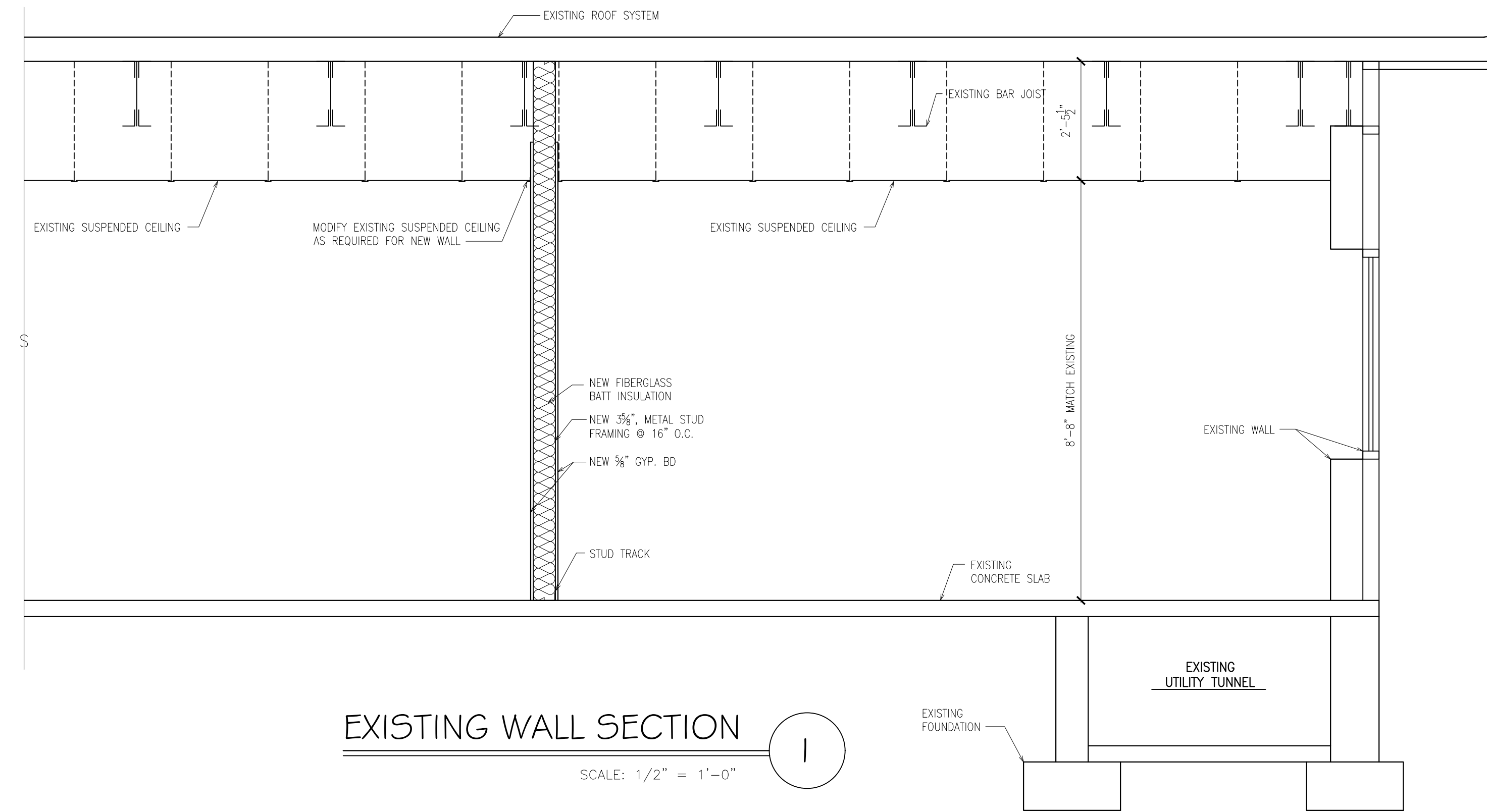
ELEVATION 2
SCALE: 1/2" = 1'-0"



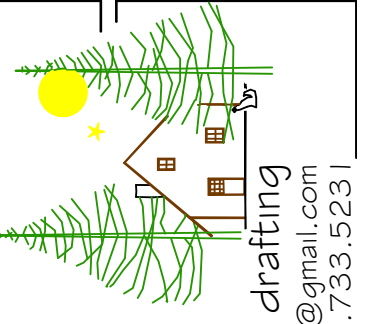
ELEVATION 1
SCALE: 1/2" = 1'-0"

MANUFACTURED CASEWORK NOTES

1. THE EXPOSED SURFACES OF THE MANUFACTURED CASEWORK WILL BE PLASTIC LAMINATE, COLOR TO BE SELECTED BY THE OWNER FROM THE MANUFACTURER'S STANDARD COLORS. THE INTERIOR OF THE CABINET AND THE DRAWER BOXES WILL BE WHITE MELAMINE FINISH.
2. EXPOSED SURFACES OF CABINETS ARE PLASTIC LAMINATE, TO BE SELECTED FROM STANDARD COLORS
3. NOMINAL DEPTH OF BASE CABINETS IS 24" AND OF UPPER CABINETS IS 12", UNLESS NOTED OTHERWISE.
4. BOTTOMS AND ENDS OF CABINETS, AND SHELVES: 3/4" PARTICLEBOARD, PLASTIC LAMINATE FACED ON EXPOSED AND SEMI-EXPOSED SURFACES.
5. BACKS OF CABINETS: 1/2" PARTICLEBOARD; PLASTIC LAMINATE FACED ON EXPOSED AND SEMI-EXPOSED SURFACES
6. DRAWER FRONTS: 3/4" PARTICLEBOARD, PLASTIC LAMINATE FACED ON BOTH SIDES
7. DRAWER SIDES AND BACKS: 1/2" PLASTIC LAMINATE FACED PARTICLEBOARD WITH DOVETAIL OR MULTIPLE-DOWEL JOINTS
8. DRAWER BOTTOMS: 1/2" PLASTIC LAMINATE FACED PARTICLEBOARD GLUED AND DADOED INTO FRONT, SIDES, AND BACK OF DRAWERS
9. FILLER STRIPS: PROVIDE AS NEEDED TO CLOSE SPACES BETWEEN CABINETS AND WALLS. FABRICATE THEM FROM THE SAME MATERIAL AND WITH THE SAME FINISH AS THE CABINETS.
10. ALL COUNTERTOP AND BACKSPLASH LAMINATE IS PLASTIC LAMINATE, TO BE SELECTED FROM STANDARD COLORS
11. COMPLY WITH NEMA LD 3 FOR PLASTIC LAMINATE
12. COMPLY WITH ASTM D 1037 FOR PLASTIC-LAMINATE SUBSTRATE
13. HARDWARE STYLE WILL BE WIRE PULLS
14. PROVIDE TWO PULLS FOR DRAWERS MORE THAN 24" WIDE
15. PROVIDE HEAVY DUTY, SELF-CLOSING DRAWER SLIDES, DESIGNED TO PREVENT REBOUND WHEN DRAWERS ARE CLOSED, WITH NYLON TINED, BALL BEARING ROLLERS, AND RATED FOR AT LEAST 100 LBS



EXISTING WALL SECTION 1
SCALE: 1/2" = 1'-0"



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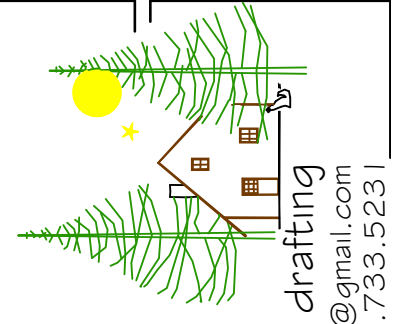
CONTRACT NO. 2403.01
PROJECT NO. 2403.01
SHEET NO. A2

PROJECT TITLE
FLOOR PLAN

IBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

ISSUED
RFP JUN 7, 2024
ENGINEER
DESIGNER
JOB NUMBER
2403.01
SHEET NO.

A2



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CONTRACT NO. 2024-0001
PROJECT NO. 2403.01
DATE: JUN 7, 2024
DRAWN BY: J. B. BROWN
CHECKED BY: M. J. BROWN
PROJECT: ROGERS CITY ELEMENTARY SCHOOL 2024
SHEET TITLE: FLOOR PLAN

FLOOR PLAN

IBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

PROJECT: ROGERS CITY ELEMENTARY SCHOOL 2024
ISSUED: JUN 7, 2024
RFP: JUN 7, 2024
ENGINEER:
DESIGNER:
JOB NUMBER: 2403.01
SHEET NO.:

A3

ROOM FINISH SCHEDULE

RM No.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MAT'L	HT.	
109	EXISTING HALLWAY	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	8'-0"	NO WORK REQUIRED
119	EXISTING HALLWAY	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	8'-0"	NO WORK REQUIRED
124	EXISTING CLASSROOM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	8'-0"	NO WORK REQUIRED
1201	WAITING	VCT	V	EXIST/P	GYP/P	GYP/P	GYP/P	SUSP	8'-8"	
1203	NURSE STATION	VCT	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	8'-8"	
1204	RECEPTION	VCT	V	GYP/P	EXIST/P	GYP/P	GYP/P	SUSP	8'-8"	
1205	SUPPLY CLOSET	VCT	V	EXIST/P	EXIST/P	EXIST/P	EXIST/P	EXIST	8'-8"	
1210	EXAM No.1	VCT	V	EXIST/P	EXIST/P	EXIST/P	GYP/P	SUSP	8'-8"	
1211	EXAM No.2	VCT	V	GYP/P	EXIST/P	EXIST/P	GYP/P	SUSP	8'-8"	
1215	IT CLOSET	VCT	V	PLY	PLY	PLY	GYP/P	SUSP	8'-8"	
1216	RESTROOM	VCT	V	GYP/P	GYP/P	EXIST/P	GYP/P	SUSP	8'-8"	
1220	LAB	VCT	V	GYP/P	GYP/P	EXIST/P	EXIST/P	SUSP	8'-8"	
1222	PROVIDOR OFFICE	VCT	V	GYP/P	GYP/P	GYP/P	EXIST/P	SUSP	8'-8"	
1225	BEHAVIORAL HEALTH	VCT	V	GYP/P	GYP/P	GYP/P	EXIST/P	SUSP	8'-8"	

WINDOW SCHEDULE

No.	QTY	MANUFACTURER & STYLE	ROUGH OPENING	HEAD HT	REMARKS
A	3	EXISTING	48"x64"	7'-4"	EXISTING WINDOW TO REMAIN
B	1	RECEPTION WINDOW	48"x48"	7'-0"	GYP BD JAMBS
C	1	FIXED SASH	30"x48"	7'-0"	GYP BD JAMBS, TEMPERED GLASS
D	1	FIXED SASH	54"x48"	7'-0"	GYP BD JAMBS, TEMPERED GLASS

WINDOW NOTES

- RECEPTION WINDOW WILL HAVE STANDARD HARDWARE AND LOCK. WINDOW TRACK WILL BE RECESSED INTO THE COUNTERTOP.
- WINDOW TREATMENTS WILL BE BY OWNER.

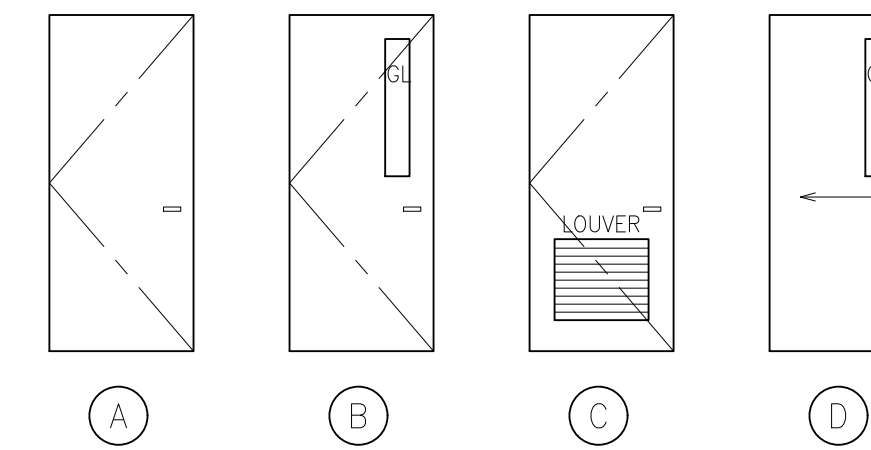
DOOR and FRAME SCHEDULE

No.	SIZE	DOOR		FRAME		HARDWARE	REMARKS
		MAT'L	TYPE	MAT'L	WALL		
1201A	3'-0"x7'-0"	EXIST	EXIST	EXIST	EXIST	EXIST, EL	REKEY PER OWNER
1021B	3'-0"x7'-0"	EXIST	EXIST	EXIST	EXIST	EXIST	REKEY PER OWNER, ELECTRIC STRIKE
1203	3'-0"x7'-0"	WOOD	B	NL	HM	B, EL, C	
1204	3'-0"x7'-0"	EXIST	EXIST	EXIST	EXIST	EXIST, PL	NEW LOCKSET
1210	3'-0"x7'-0"	WOOD	A	NONE	HM	B, PL, DS	
1210	3'-0"x7'-0"	WOOD	A	NONE	HM	5 3/8"	B, PL, DS
1215	3'-0"x7'-0"	WOOD	C	NONE	HM	4 7/8"	B, EL
1216	3'-0"x7'-0"	WOOD	A	NONE	HM	4 7/8"	P, PVL, C
1222	3'-0"x7'-0"	WOOD	D	NONE	HM	5 3/8"	PL
1225	3'-0"x7'-0"	WOOD	A	NONE	HM	5 7/8"	B, PL, DS

DOOR NOTES

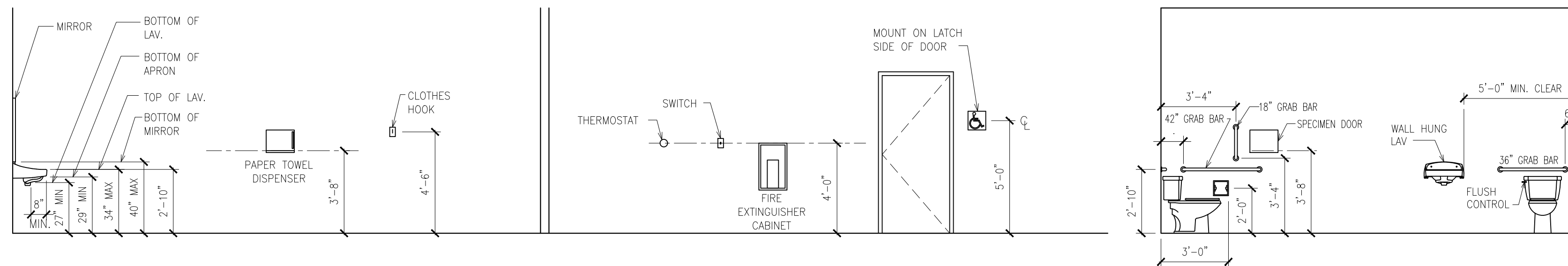
- HARDWARE KEY:** EXIST = EXISTING HARDWARE; B = 1/2" PAIR BALL BEARING BUTTS; C = HYDRAULIC DOOR CLOSER WITH KEY VALVES FOR BACK CHECK, SPEED, AND LATCHING; DS = WALL-MOUNT OR FLOOR-MOUNT DOOR STOP; EL = ENTRY LEVER LOCKSET; PL = PASSAGE LEVER LOCKSET; PVL = PRIVACY LEVER LOCKSET; STD = STANDARD HARDWARE
- VERIFY FLOOR FINISH BEFORE INSTALLATION OF DOOR FRAMES.
- VERIFY ALL DOOR HARDWARE WITH OWNER.
- COORDINATE THE KEYING OF THE LOCKS WITH THE OWNER.
- LEVERSETS WILL BE MARKS, GRADE II, COMMERCIAL QUALITY LOCKSETS.
- DOOR CLOSERS WILL BE LCN MODEL 1261 WITH DOGGING FEATURE ON NON FIRE RATED DOORS. ALL CLOSERS WILL HAVE COVERS.
- ALL DOORS AND FRAMES THAT RECEIVE DOOR CLOSERS SHALL BE REINFORCED WHERE ATTACHMENT IS MADE.
- PROVIDE CAULK AT INTERIOR LOCATIONS AND SEALANT AT EXTERIOR LOCATIONS BETWEEN ALL FRAMES AND ADJACENT MATERIALS.
- HOLLOW METAL FRAMES TYPICAL SHOWN FOR DETAILING PURPOSES, ALUMINUM AS OCCURS. HOLLOW METAL SUPPLIER TO VERIFY WALL THICKNESS AND THROAT SIZE BEFORE ORDERING.
- ALL INTERIOR WOOD DOORS SHALL BE PREFINISHED 1/4" THICK SOLID CORE WITH VENEER AND EDGE BANDING TO MATCH EXISTING DOORS.
- ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.

DOOR TYPES



ROOM FINISH NOTES

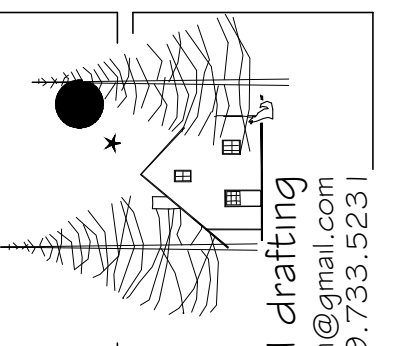
- KEY: EXIST = EXISTING; V = 4" VINYL BASE; EXIST/P = NEW PAINT ON EXISTING CMU; GB/P = GYPSUM BOARD AND PAINT; EXIST/P = PAINT ON EXISTING WALL FINISH; SUSP = SUSPENDED CEILING; VCT = VINYL COMPOSITE TILE; PLY = 3/4" PLYWOOD OVER FIRE TAPED GYPSUM BOARD OR EXISTING CMU.
- EXISTING WALL FINISHES WILL BE REPAIRED, PATCHED, HAVE HOLES FILLED, ETC. PRIOR TO NEW PAINT.
- ALL NEW FRAMED INTERIOR WALLS WILL RECEIVE 5/8" TYPE "X" FIRESHIELD GYPSUM BOARD. INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.
- ALL INTERIOR GYPSUM BOARD WILL BE TAPED AND FINISHED, READY FOR PAINT, EXCEPT FOR AREAS ABOVE SUSPENDED CEILING, WHICH CAN BE TAPED ONLY.
- ALL INTERIOR GYPSUM BOARD WILL BE PRIMED BY THE PAINTER, THEN SPOTTED AND CHECKED BY THE PAINTER, DRYWALLER, AND GENERAL CONTRACTOR BEFORE FINISH PAINT IS APPLIED.
- INTERIOR TRIM WILL RECEIVE THREE (3) COATS OF FINISH. FILL ALL NAIL HOLES WITH FILLER TO MATCH FINISH.
- ALL PAINTED GYPSUM BOARD/DRYWALL WILL RECEIVE ONE PRIME COAT AND TWO FINISH COATS.
- HOLLOW METAL FRAMES SHALL BE SHOP PRIMED.
- DOOR FRAMES WILL RECEIVE THREE (3) COATS OF FINISH.
- DOORS WILL BE FACTORY FINISHED.
- RESTROOM IS BARRIER FREE AND REQUIRES A SIGN ON THE WALL ADJACENT TO THE DOOR PER THE BARRIER FREE CODE OF THE STATE OF MICHIGAN.
- INSTALL 3/8" FIBERGLASS SOUND INSULATION IN ALL WALLS PER THE PRINTS.
- INSTALL ALL RESTROOM ACCESSORIES PER THE STATE OF MICHIGAN BARRIER FREE CODE AND THE AMERICAN'S WITH DISABILITIES ACT. RESTROOM ACCESSORIES WILL BE:
18", 36" & 42" GRAB BARS
ONE TOILET PAPER DISPENSER / SHELF, BOBRICK B-2840
ONE SOAP DISPENSER, BOBRICK B-155
ONE PAPER TOWEL DISPENSER, BOBRICK B-262
ONE 24"x36" MIRROR, BOBRICK B-293 2436
ONE CLOTHES HOOK, BOBRICK B-671
ONE SPECIMEN PASS THRU, BOBRICK B-505
- THERE WILL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- CEILING HEIGHTS INDICATED ON THE ROOM FINISH SCHEDULE ARE FOR THE LOWEST MAJOR AREA OF CEILINGS IN THE ROOM. REFER TO PLANS, SECTIONS, AND DETAILS WHERE APPLICABLE FOR ADDITIONAL CEILING HEIGHTS WITHIN THE ROOM.
- WHEREVER A FLOOR, WALL, OR CEILING SURFACE OF A ROOM IS SCHEDULED TO BE FINISHED, ALL UNFINISHED ITEMS WITHIN THAT SURFACE (FRAMES, DOORS, TRIM, PANEL COVERS, ETC.) SHALL BE FINISHED, UNLESS INDICATED OTHERWISE. FINISH FOR SUCH ITEMS SHALL BE AS APPLICABLE TO SPECIFIC MATERIAL. DO NOT FINISH PRE-FINISHED ITEMS, UNLESS INDICATED OTHERWISE.
- TRANSITIONS BETWEEN ABUTTING DISSIMILAR MATERIALS SHALL BE SMOOTH AND LEVEL WITHOUT EXPOSED EDGES NOR ABRUPT CHANGES IN ELEVATION. PROVIDE AND INSTALL TRANSITION DEVICES OF AN APPROPRIATE MATERIAL AND PROFILE AS REQUIRED TO ACHIEVE THIS REQUIREMENT. WHEREVER POSSIBLE, LOCATE FLOORING MATERIAL TRANSITIONS BETWEEN ADJACENT ROOMS BENEATH THE DOORWAY(S) IN ITS CLOSED POSITION, UNLESS INDICATED OTHERWISE.
- CEILING BULKHEADS: BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE FINISHED THE SAME UNLESS INDICATED OTHERWISE.
- ALL COLORS, PATTERNS, AND TEXTURES OF FINISHES SHALL BE AS SELECTED BY THE OWNER.
- FLOOR MATERIAL CHANGES SHALL OCCUR BENEATH DOORS/THRESHOLDS.
- WALL DESCRIPTIONS (INCLUDING WALLS, PARTITIONS, ASSEMBLIES, SEPARATIONS, ENCLOSURES, ETC.) ON THIS DRAWING GENERALLY DESCRIBE THE WALL CONDITIONS. REFER TO PLANS, SECTIONS, AND DETAILS WHERE APPLICABLE FOR WALL DESCRIPTIONS PERTAINING TO RATINGS, SOUND AND AIR CONTROL.
- WALLS WITHIN 24" OF SERVICE SINKS AND WATER CLOSETS, AND WALLS ADJACENT TO WALL HUNG LAVATORIES SHALL HAVE SMOOTH, HARD, NON-ABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 48" (PEBBLE TEXTURE FIBERGLASS REINFORCED PLASTIC PANELS).
- SUSPENDED CEILINGS USG, RADAR, FIELD VERIFY.
- PROVIDE FILLER STRIP(S) BETWEEN WALL AND CABINETRY, AS REQUIRED. FILLER STRIPS SHALL MATCH CASEWORK IN ALL RESPECTS. SIZE OF FILLERS SHALL BE 2" MAX.
- OWNER TO VERIFY ALL ROOM FINISHES PRIOR TO THE START OF CONSTRUCTION.
- NEW FLOOR BASE WILL 4" ROPPE, VINYL COVE BASE, ROLLED LENGTHS, MATCH EXISTING COLOR
- INSTALL FIRE EXTINGUISHER AND CABINET (FEC) PER THE PRINTS. FIRE EXTINGUISHER SHALL BE A MULTIPURPOSE DRY-CHEMICAL TYPE, WITH UL RATING OF 3A-40BC, AMEREX, MODEL B4027 OR EQUAL WITH LARSON, MODEL 2409-R3 FG, ARCHITECTURAL SERIES, ROLLED EDGE SEMI-RECESSED CABINET



MOUNTING HEIGHT SCHEDULE

THE INTENT OF THIS SCHEDULE IS TO ILLUSTRATE THE PROPER MOUNTING HEIGHTS ONLY. THE FIXTURES INDICATED WITHIN THIS SCHEDULE MAY VARY FROM THOSE SPECIFIED OR REQUIRED. REFER TO PLANS, MECHANICAL DRAWINGS, AND/OR PROJECT MANUAL FOR ADDITIONAL INFORMATION.

SCALE: NONE



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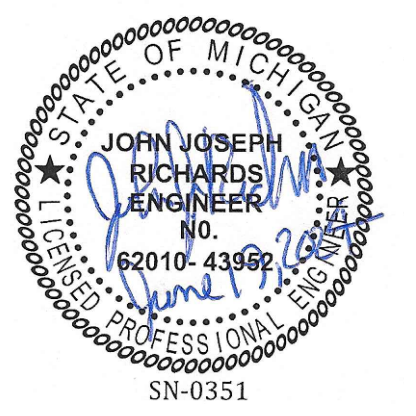
FLOOR PLAN - ELECTRICAL

IBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

PROJECT: 24105-08
13310 S. West Bayshore Dr.
Belle Isle, MI 48004
(248) 852-0800 office

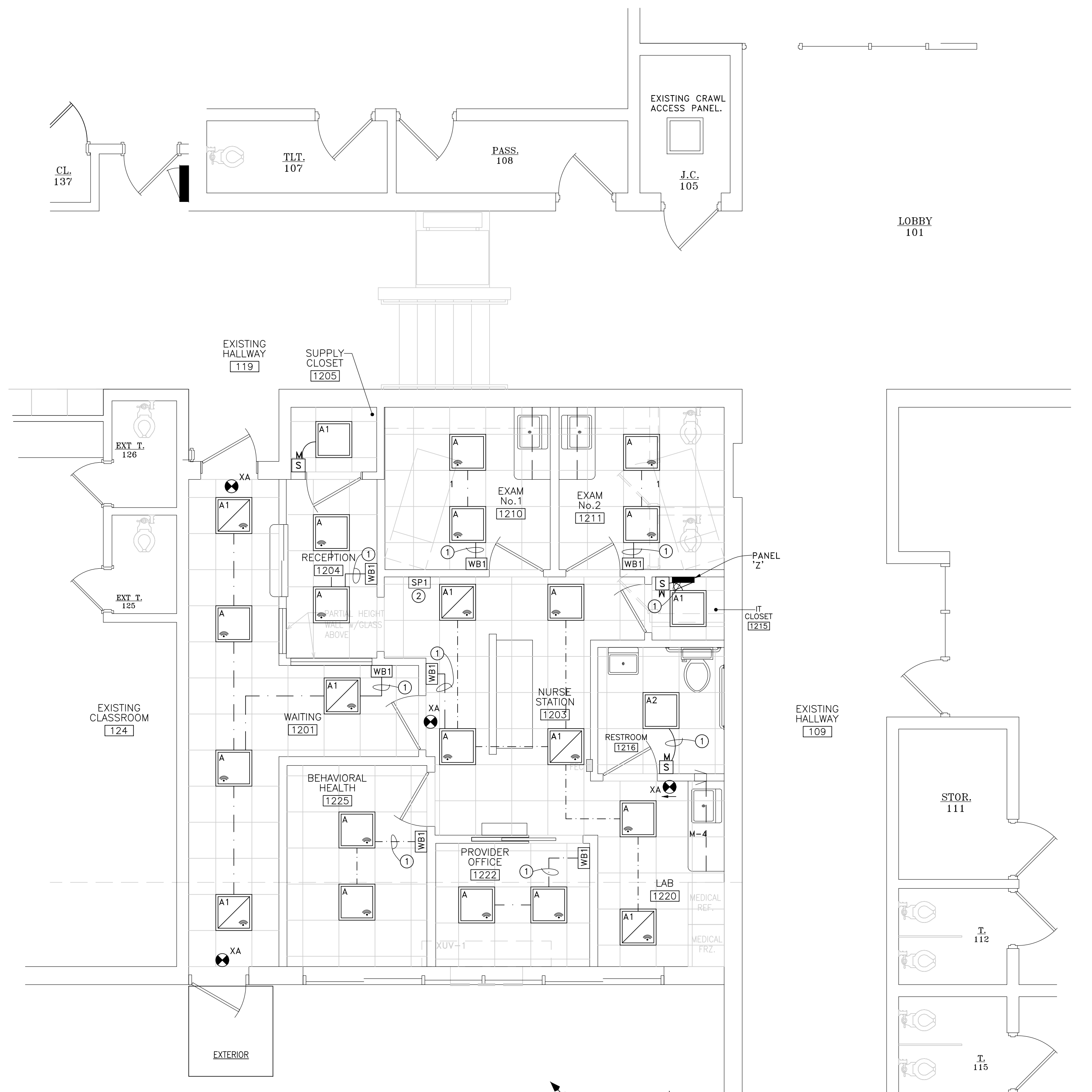
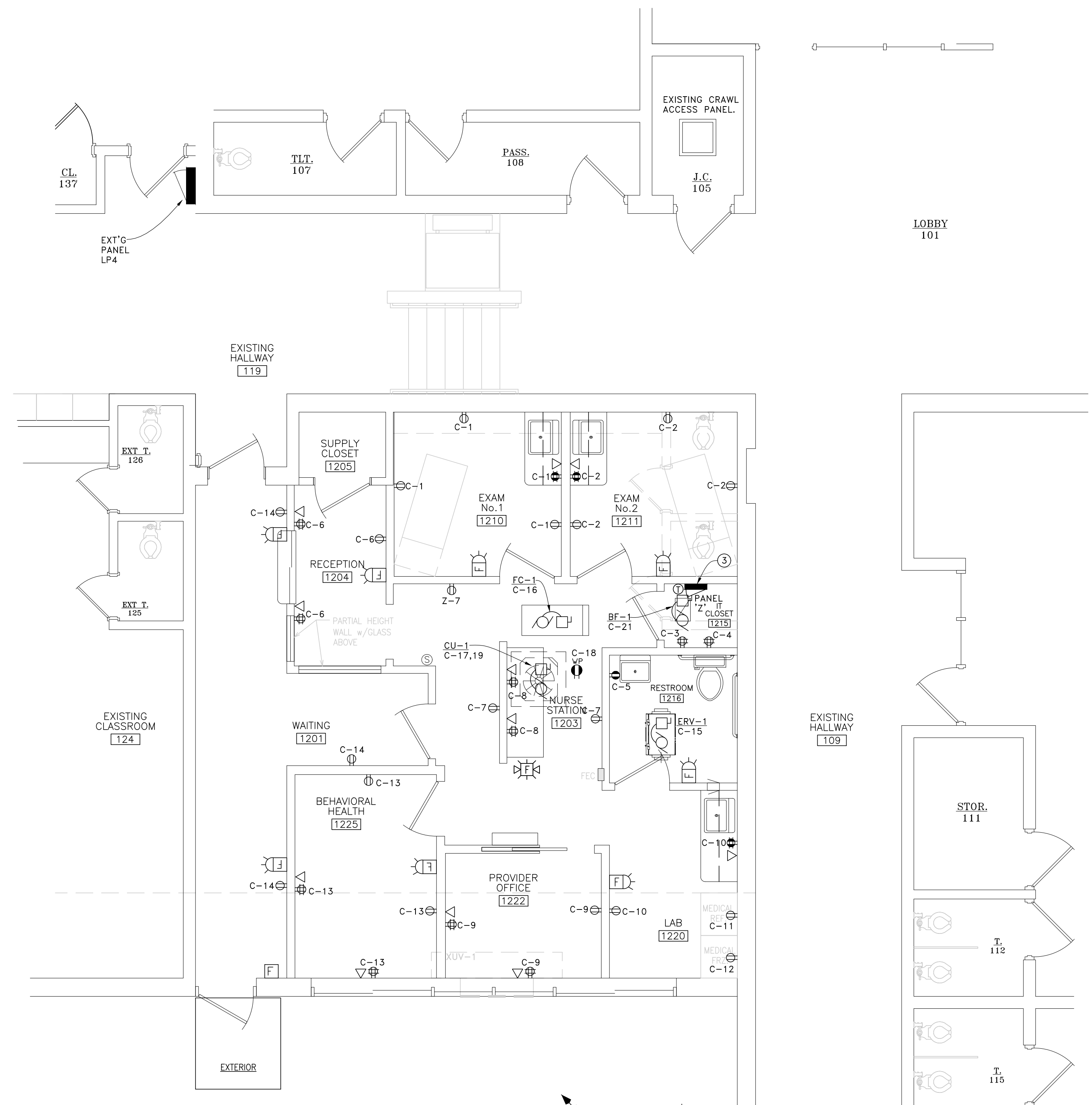
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CODE REVIEW: 06/19/24

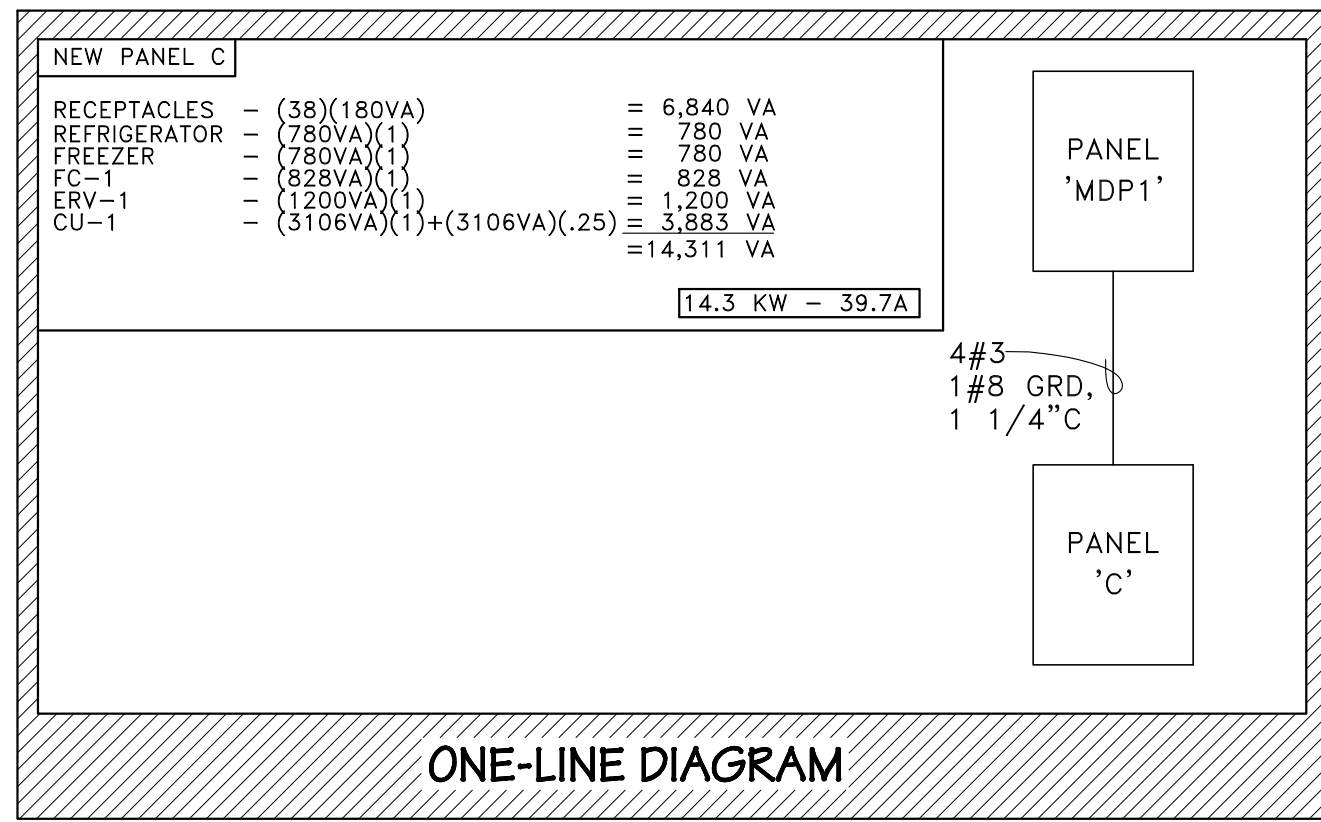
ENGINEER: _____
JUR: _____
DESIGNER: _____
JUR: _____
JOB NUMBER: 2403.01
SHEET NO.: _____



ELECTRICAL KEYED NOTES

- CONNECT NEW LIGHT FIXTURES TO EXT'G CIRCUITING AS REQ'D.
- CONNECT WAC TO NEAREST EXT'G LIGHTING CIRCUIT AS REQ'D.
- CONNECT PANEL 'C' TO MDP1 IN MECHANICAL ROOM. PROVIDE A 100A-3P BREAKER IN MDP1 FOR THE NEW PANEL.





CR NO.	AMP/POLES	DESCRIPTION	LOAD	LOAD	DESCRIPTION	AMP/POLES	CR NO.
1	20/1	RECEPT. - TP (EXAM RM1-1210)	900	900	RECEPTACLES - TP (EXAM RM2-1211)	20/1	2
3	20/1	RECEPTACLES (IT CLOSET 1215)	360	360	RECEPTACLES (IT CLOSET 1215)	20/1	4
5	20/1	RECEPTACLES - TP (RESTROOM 1216)	180	900	RECEPTACLES - TP (RECEPTION 1204)	20/1	6
7	20/1	RECEPTACLES, TP (NURSE STATION 1203)	540	720	RECEPTACLES - TP(NURSE STATION 1203)	20/1	8
9	20/1	RECEPTACLES - TP(PROVIDER OFFICE 1222)	900	540	RECEPTACLES (LAB 1220)	20/1	10
11	20/1	MEDICAL REFRIGERATOR (LAB 1220)	1080	1080	MEDICAL FREEZER (LAB 1220)	20/1	12
13	20/1	RECEPTACLES, TP(BEHAVIOR HEALTH 1225)	1080	540	RECEPTACLES (WAITING 1201)	20/1	14
15	20/1	ERV-1 (RESTROOM 1216)	1200	828	FC-1 (NURSE STATION 1203)	10/1	16
17	20/1	CU-1 (ROOF)	1508	180	RECEPTACLE (ROOF)	20/1	18
19			1508	---	SPARE	20/1	20
21	20/1	BF-1 (IT CLOSET 1215)	117	---	SPACE	---	22
23	20/1	SPARE	---	---	SPACE	---	24
25	---	SPACE	---	---	SPACE	---	26
27	---	SPACE	---	---	SPACE	---	28
29	---	SPACE	---	---	SPACE	---	30
31	---	SPACE	---	---	SPACE	---	32
33	---	SPACE	---	---	SPACE	---	34
35	---	SPACE	---	---	SPACE	---	36
37	---	SPACE	---	---	SPACE	---	38
39	---	SPACE	---	---	SPACE	---	40
41	---	SPACE	---	---	SPACE	---	42

BRANCH CIRCUIT AMPS	LENGTH OF RUN - FROM PANEL TO FIRST CONNECTION - FEET									
	50'	60'	70'	80'	90'	100'	110'	120'	130'	
15	#12	#12	#12	#12	#12	#12	#10	#10	#10	
20	#12	#12	#12	#10	#10	#10	#10	#10	#8	
30	#10	#10	#10	#10	#8	#8	#8	#8	#6	

TYPE	BRAND	MODEL #	MOUNTING TYPE	LAMP	TOTAL FIXTURE POWER	VOLTAGE	NOTES:
A	METALUX	22CZ5-34-UNV-L835-CD1-WPS-U	RECESSED	2128LM/4000K/LED	16.4W	120V	W/ SHALLOW SURFACE MOUNT KIT
A1	METALUX	22CZ5-34-UNV-EL14W-L835-CD1-WPS-U	RECESSED	2128LM/4000K/LED	16.4W	120V	EMERGENCY BATTERY INSTALLED, W/ SHALLOW SURFACE MOUNT KIT
A2	METALUX	22CZ5-24-UNV-L835-CD1-U	RECESSED	2128LM/4000K/LED	16.4W	120V	EMERGENCY BATTERY INSTALLED, W/ SHALLOW SURFACE MOUNT KIT
XA	SURELITES	LPX7	EXIT LIGHT	(1) LED	0.98W	120V	-

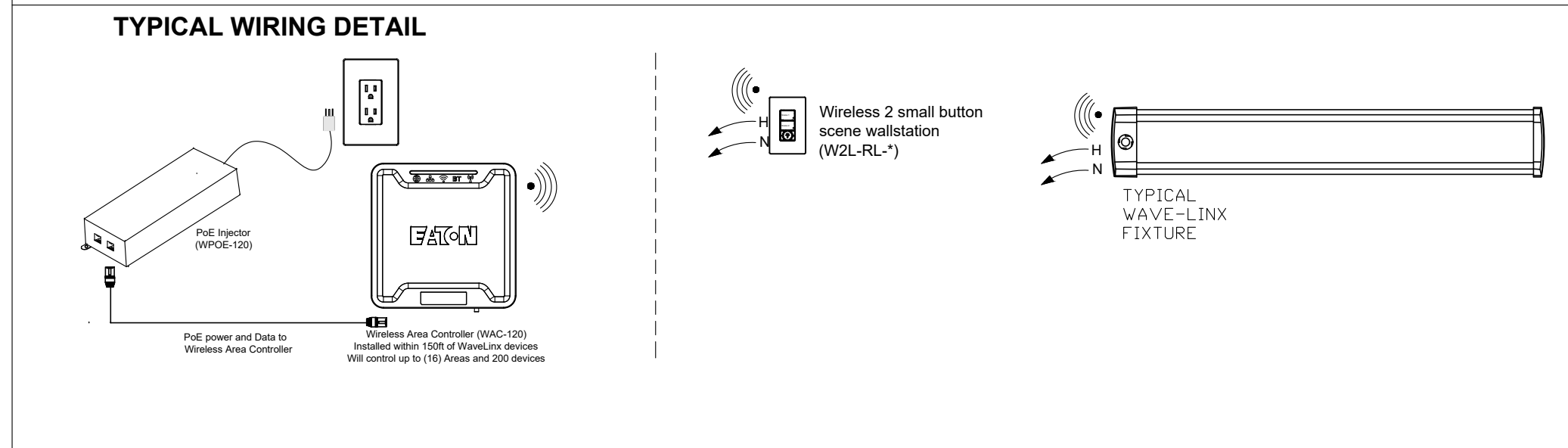
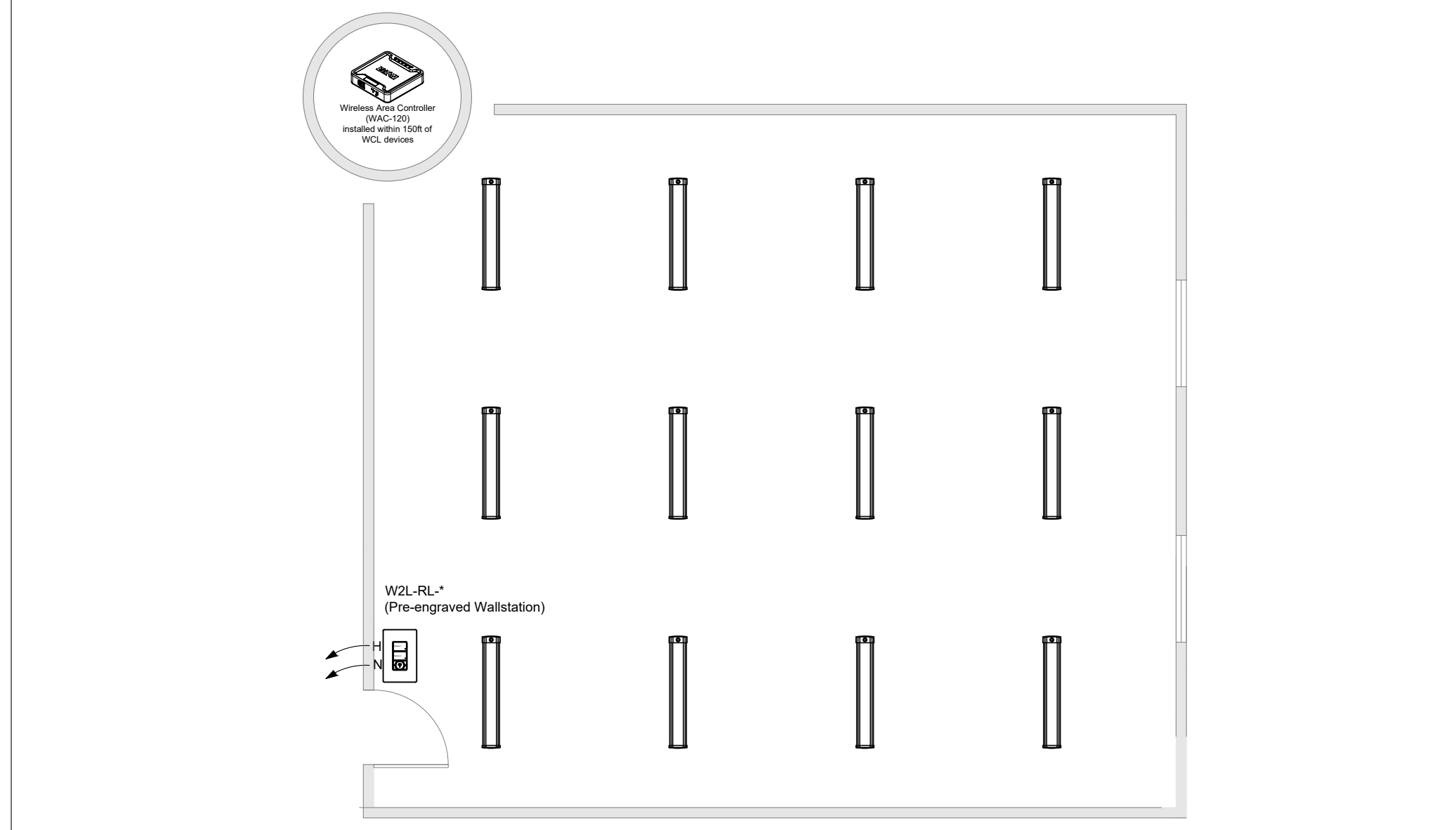
SYMBOL	DESCRIPTION	PART NO.
[F]	MANUAL PULL STATION	EST 210A-SPO
[SD]	PHOTOELECTRIC SMOKE DETECTOR	EST 511C
[DB]	DETECTOR BASE	EST S1GA-SB
[FD]	STROBE DEVICE	EST G1-VM
[CS]	CEILING MOUNTED STROBE	EST GC-VM
[CH]	CEILING MOUNTED HORN STROBE	EST GC-HDVM
[PB]	FIRE ALARM POWER BOOSTER	EST EBPS10A

NEW FIRE ALARM DEVICES BASED ON EST. VERIFY EXISTING FIRE ALARM CONTROL PANEL AND TIE IN THE NEW DEVICES.

ELECTRICAL NOTES

- PRIOR TO SUBMITTING A PROPOSAL, BIDDER SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- ELECTRICAL WORK SHALL COMPLY WITH THE LATEST ENFORCEABLE EDITION OF THE N.E.C., LOCAL AND STATE CODES, ORDINANCES, REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ADA GUIDELINES WITH THE LOCAL CODE AUTHORITIES HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, INCLUDING COSTS ASSESSED BY THE ELECTRIC UTILITY COMPANIES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
- ELECTRICAL MATERIALS SHALL BE NEW, AND BEAR THE "UL" LABEL.
- BRANCH CIRCUIT WIRE FOR LIGHTING, RECEPTACLE AND SMALL POWER SHALL BE COPPER, RATED 75 DEGREES C, MINIMUM SIZE #12 AWG, AND BE TYPE "THHN", AND BE INSTALLED IN EMT, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. FEEDERS AND SECONDARY SERVICE CONDUCTORS SHALL BE STRANDED COPPER WITH 600 VOLT INSULATION, RATED 90 DEGREES C, TYPE "THHN", AND BE INSTALLED IN EMT OR PVC CONDUIT, MINIMUM SIZE 1/2" UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE DELIVERED TO PROJECT IN UNBROKEN AND UNDAMAGED CARTONS AND REELS.
- FUSES SHALL BE "UL" LISTED, DUAL AS MANUFACTURED BY BUSMAN CO., OR APPROVED EQUAL (200,000 ERIC).
- PLATES FOR SWITCHES AND RECEPTACLES SHALL BE PLASTIC, COLOR TO BE IVORY.
- FIELD VERIFY ALL CONNECTIONS TO EXT'G ELECTRICAL PANELS AND REVISE AS REQ'D TO PROVIDE PROPER POWER AND CIRCUITING.
- PANEL BOARDS SHALL BE RATED 120/208V, 3 PHASE, 4W, AS NOTED WITH PLUG TYPE BRANCH CIRCUIT BREAKERS RATED A MINIMUM 10,000 A.I.C.. PANEL BOARDS SHALL BE SIMILAR TO SQUARE D, TYPE QO AND I-LINE, OR EQUAL BY WESTINGHOUSE/ CHALLENGER, E.T.A., OR GENERAL ELECTRIC.
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT ELECTRIC UTILITY COMPANIES SERVICE POINTS AND PRIMARY SERVICE CONDUIT ROUTING, AND SIZE WITH UTILITY COMPANY SERVICE PLANNERS PRIOR TO BEGINNING WORK.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER. SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AT NO EXPENSE TO CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCE'S BETWEEN HIS WORK AND THE WORK OF OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE ARCHITECT AND/OR OWNER BEFORE CONTINUING.
- LAMPS - ALL LAMPS SHALL BE CLASSIFIED "ENERGY SAVING", AND BE PROVIDED BY E.C.
- THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES.
- THE ELECTRICAL CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE ELECTRICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL DISPOSE OF ALL DEBRIS AND RUBBISH AND SHALL LEAVE ALL AREAS CLEAN. THE INTERIORS OF ALL CABINETS, PULL BOXES, AND EQUIPMENT ENCLOSURES SHALL BE FREE OF ANY DEBRIS.
- UNDERGROUND CONDUIT TO BE SCHEDULE 40 PVC.
- PATIENT CARE SPACE (SPACE WITHIN A HEALTH CARE FACILITY WHERE PATIENTS ARE INTENDED TO BE EXAMINED OR TREATED) ARE TO COMPLY WITH NEC "SECTION 517", WITH SPECIAL ATTENTION TO THE FOLLOWING SECTIONS.
 - 517.13 GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE AREAS.
 - 517.14 PANELBOARD BONDING.
- NOTE: ALL PATIENT CARE SPACES AT THIS FACILITY ARE INTENDED TO BE "BASIC CARE SPACES".
- ELECTRICAL JOINTS WILL BE PERMITTED ONLY IN JUNCTION AND OUTLET BOXES. ALL JOINTS SHALL BE FIRMLY BONDED TOGETHER AND TAPED OR SHALL BE MADE WITH MECHANICAL CONNECTORS.
- ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL BE PROVIDED WITH AN EFFECTIVE GROUND-Fault CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM, OR A CABLE HAVING A METALLIC ARMOR OR SHEATH ASSEMBLY.
- FIELD VERIFY ALL EQUIPMENT NAMEPLATE DATA BEFORE CONNECTING EQUIPMENT.

TYPICAL ROOM DETAIL USING EATON WAVELINK

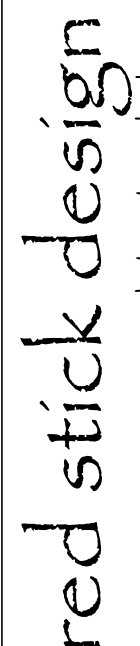


EATON WAVELINK BILL OF MATERIALS

- [WB1] - EATON W2L-RL* WALL BOX CONTROLLER (VERIFY COLOR WITH OWNER)
- [WAC] - EATON WAC-POE WIRELESS AREA CONTROLLER.
- [SP1] - EATON WSP-MV-010 SWITCH PACK
- WIRELESS CONNECTION - ALL LIGHTING CONNECTIONS ARE SHOWN FOR WIRELESS GROUPING ONLY.
- SUPPLIER TO PROVIDE INITIAL PROGRAMING AND TRAINING FOR WAVELINK SYSTEM. (CONTACT CRITES TIDEY (231) 941-8686)

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	NOTES
[S]	SINGLE POLE SWITCH	MOUNT @ 46" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[S3]	THREE WAY SWITCH	MOUNT @ 46" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[S4]	FOUR WAY SWITCH	MOUNT @ 46" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[M]	PASSIVE INFRARED OCCUPANCY SENSOR	MOUNT @ 46" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[X]	2'x2' FIXTURE, TYPE X	SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
[X]	1'x 2' FIXTURE, TYPE X	SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
[X]	EXIT SIGN, TYPE X	SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
[WP]	DUPLEX OUTLET - GFI, WEATHERPROOF COVER	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[P]	DUPLEX OUTLET - 20 AMP	MOUNT @ 16" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[G]	DUPLEX OUTLET - GROUND FAULT	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[Q]	QUAD OUTLET	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
[SPO]	SPECIAL PURPOSE OUTLET, AS NOTED	REFER TO SHOP DRAWINGS FOR CONNECTION REQUIREMENTS
[MOTOR]	MOTOR, AS SPECIFIED	REFERENCE SPECIFICATIONS FOR REQUIREMENTS
[FD]	FUSED DISCONNECT	REFER TO GENERAL ELECTRICAL NOTES AND ONE-LINE DIAGRAM.
[L]	LIGHTING/BRANCH CIRCUIT PANELS	REFER TO GENERAL ELECTRICAL NOTES AND ONE-LINE DIAGRAM.
[T]	MECHANICAL THERMOSTAT	PROVIDE CONDUIT UP TO CEILING PLENUM WITH BACKBOX MOUNT @ 46" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED

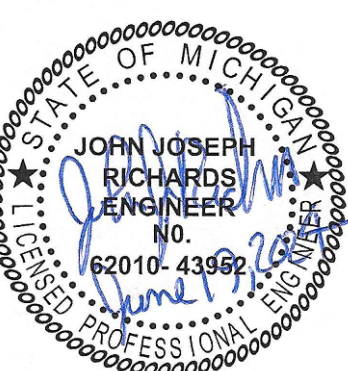

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SCHEDULES/NOTES/DETAILS =
 ELECTRICAL

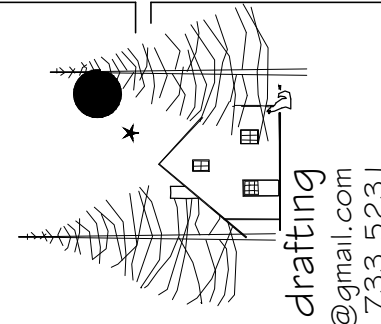
PROJECT TITLE
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

PROJECT
 ISSUED
 CODE REVIEW 06/19/24
 ENGINEER
 DESIGNER
 JOB NUMBER 2403.01
 SHEET NO. E2

PROJECT: 2403-08
 13310 S. West Bayshore Dr.
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 JOHN JOSEPH RICHARDS
 ENGINEER
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 APOLLO ENGINEERING
 SR-0351



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architectural design and drafting
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Tel: 909-753-5231

CONTRACTOR TO VERIFY ALL CONDITIONS OF THE SITE AND THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OF NEGLIGENCE ON HIS PART.

MECHANICAL CONTRACTOR SHALL OBTAIN ALL PERMITS PAY ALL FEES, INCLUDING COSTS ASSESSED BY THE MECHANICAL UTILITIES COMPANIES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF MECHANICAL WORK, THE MECHANICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.

MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCES BETWEEN HIS WORK AND THE WORK OF OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE GENERAL CONTRACTOR BEFORE CONTINUING.

THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK.

THE MECHANICAL CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE MECHANICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL LEAVE ALL AREAS CLEAN.

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
2. PROJECT TO COMPLY WITH CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.
3. EACH CONTRACTOR SHALL BE THOROUGHLY KNOWLEDGEABLE OF REGULATIONS GOVERNING HIS PRODUCT AND SERVICE AND SHALL ASSUME RESPONSIBILITY OF INSTALLATION IN ACCORDANCE WITH THOSE REGULATIONS.
4. CONTRACTORS TO VERIFY ALL DIMENSIONS RELATIVE TO THEIR SPECIFIC WORK AND SHALL BE THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS PRIOR TO INITIATING THEIR WORK. DISCREPANCIES SHALL BE REPORTED TO THE GENERAL CONTRACTOR OR TO HIS ON-SITE REPRESENTATIVE.
5. ANY PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES FOR MECHANICAL OR PLUMBING SYSTEMS, ETC. SHALL BE FIRE-STOPPED AND DRAFT-STOPPED WITH NON-COMBUSTIBLE MATERIALS PER CODE REQUIREMENTS TO MAINTAIN STRUCTURAL AND FIRE RESISTIVE INTEGRITY.
6. DRAWINGS ARE DIAGRAMMATIC ONLY, FIELD VERIFY EXISTING CONDITIONS.
7. PRIOR TO SUBMITTING A PROPOSAL, BIDDER SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OF NEGLIGENCE ON HIS PART.
8. MECHANICAL CONTRACTOR SHALL OBTAIN ALL PERMITS PAY ALL FEES, INCLUDING COSTS ASSESSED BY THE MECHANICAL UTILITIES COMPANIES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF MECHANICAL WORK, THE MECHANICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
9. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCES BETWEEN HIS WORK AND THE WORK OF OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE GENERAL CONTRACTOR BEFORE CONTINUING.
10. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK.
11. THE MECHANICAL CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE MECHANICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL LEAVE ALL AREAS CLEAN.

MECHANICAL CONSTRUCTION NOTES

GENERAL

1. THE CONTRACTOR SHALL CAREFULLY COORDINATE LOCATIONS OF DUCTS, REGISTERS, DIFFUSERS, AND GRILLES WITH STRUCTURAL FRAMING, ARCH TRADES, ELECTRICAL TRADES AND PLUMBING TRADES.
2. CONTRACTOR SHALL AIR BALANCING EQUIPMENT.
3. CUTTING AND/OR PATCHING THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE MECHANICAL SYSTEM(S) SHALL BE DONE AND/OR REPAIRED BY THE MECHANICAL CONTRACTOR. NO CUTTING OF THE BUILDING STRUCTURAL SYSTEM SHALL BE DONE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL WORK WITH EXISTING SYSTEMS IN AN "AS FOUND" CONDITION.

SPECIFICATIONS

1. MECHANICAL DESIGN PER THE LATEST MICHIGAN MECHANICAL CODE.
2. VENTILATION REQUIREMENTS ARE MET BY MECHANICAL VENTILATION.
3. THE SYSTEM DESIGN HAS BEEN DEVELOPED TO MEET THE CURRENT ENERGY CODE.

DUCTWORK

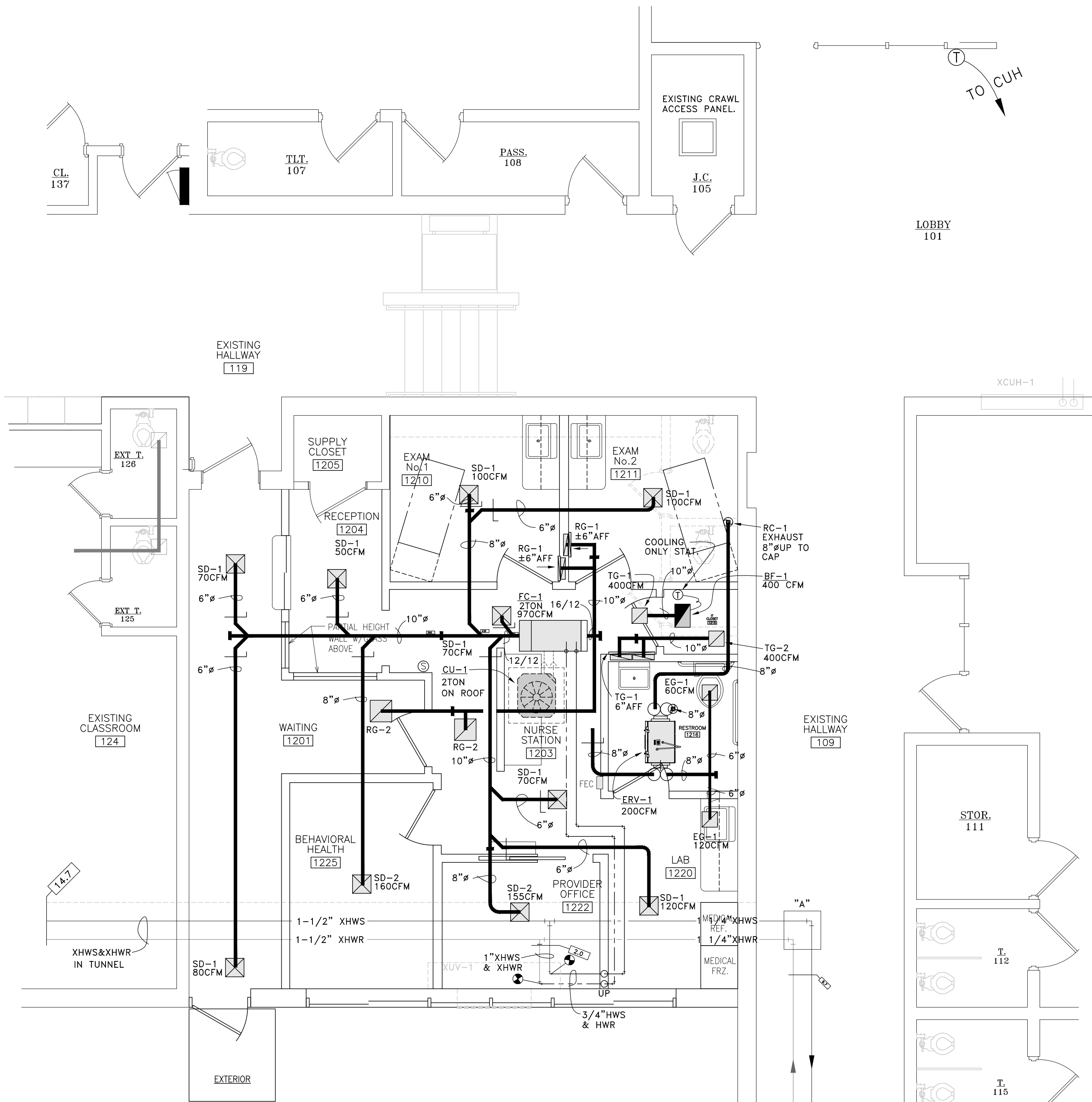
1. SUSPEND ALL DUCTS SECURELY FROM ADJACENT BUILDING MEMBERS. DO NOT SUPPORT DUCTS FROM UNIT DUCT CONNECTORS. DUCT CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL INCLUDE FLEXIBLE DUCT CONNECTORS.
2. INCLUDE FIRE DAMPERS AT ALL WALL, CEILING OR FLOOR PENETRATIONS AS REQUIRED BY CODE. (SEE ARCH. DRAWINGS FOR FIRE RATED ASSEMBLIES.)
3. RETURN AIR DUCTWORK SHALL BE CONSTRUCTED AS PER SMACNA STANDARDS (LOW PRESSURE) GAUGE GALVANIZED STEEL DUCTWORK.
4. SUPPLY AIR DUCTWORK SHALL BE CONSTRUCTED AS PER SMACNA STANDARDS (LOW PRESSURE) GAUGE GALVANIZED STEEL WITH MINIMUM 1-1/2" INSULATION EQUAL TO OWENS CORNING ALL SERVICE DUCT WRAP TYPE 150 WITH FRK VAPOR BARRIER FACING. NO INSULATION SHALL BE ON EXPOSED SA DUCTING. INSULATED FLEXIBLE DUCT MAY BE USED FOR SHORT AIR DUCT RUNS IN UNEXPOSED AREAS ONLY.
5. EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED AS PER SMACNA STANDARDS (LOW PRESSURE) GAUGE GALVANIZED STEEL. INSULATION SHALL ONLY BE REQUIRED WHEN 10FT OR LESS FROM OUTSIDE TERMINATION. INSULATION WITH A MINIMUM 1-1/2" INSULATION EQUAL TO OWENS CORNING ALL SERVICE DUCT WRAP TYPE 150 WITH FRK VAPOR BARRIER FACING SHALL BE REQUIRED. THIS IS REQUIRED TO ELIMINATE DUCT SWEATING DURING COLD WEATHER.
6. ACOUSTICAL DUCT LINER TO BE INSTALLED ON SUPPLY AIR AND RETURN AIR DUCTING (PLENUMS) NEAR HVAC UNITS EQUAL TO OWENS CORNING AEROFLEX DUCT LINER TYPE 150 WITH A MAXIMUM THERMAL CONDUCTIVITY OF .28 @ 75 F. DUCTWORK DIMENSIONS INDICATED ARE INSIDE DIMENSIONS REQUIRED FOR AIR FLOW. NO EXTERNAL INSUL. REQ'D.
7. INCLUDE MANUAL BALANCING DAMPERS AS REQUIRED TO BALANCE THE AIR SYSTEM.

HEATING AND COOLING EQUIPMENT

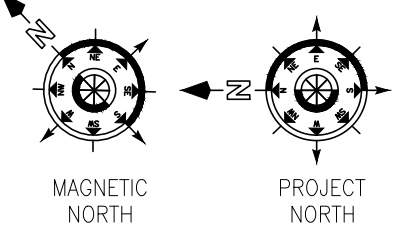
1. ALL EQUIPMENT SHALL BE INSTALLED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO APPLICABLE STATE AND LOCAL CODES.
3. EXHAUST FAN IN BATH TO BE OPERATED BY MANUAL WALL SWITCH.

OPERATION

1. DURING OCCUPIED TIME THE ERV SHALL RUN CONTINUOUSLY. THE FC FAN SHALL RUN CONTINUOUSLY AND MAINTAIN SPACE TEMP.
2. GPS UNIT SHALL PROVIDE AIR CLEANING FOR THE FAN COIL.



FLOOR PLAN - MECH.
FLOOR: 932 SF SCALE: 1/4"=1'-0"

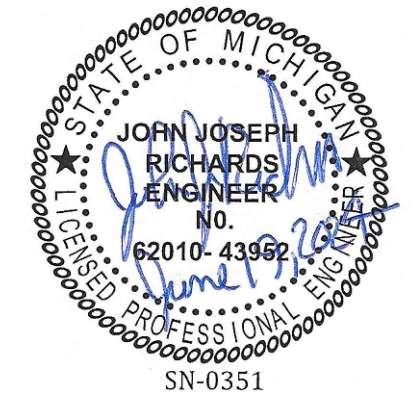


MECHANICAL LEGEND	
FC	FAN COIL UNIT
BF	BLOWER FAN
RC	ROOF TERMINATION
S.A.	SUPPLY AIR
R.A.	RETURN AIR
O.A.	OUTDOOR AIR
C.A.	COMBUSTION AIR
E.A.	EXHAUST AIR
HWS/XHWR	HOT WATER HEATING SUPPLY/RETURN
⊙	SENSOR
⊖	THERMOMETER
⊥	BALANCE DAMPER W/LOCKING QUADRANT
M	MOTORIZED DAMPER
⊘	BALL VALVE
⊥	BUTTERFLY VALVE
⊥	UNION
↑	AIR VENT
⊥	CIRCUIT SETTER
⊥	STRAINER
⊘	3-WAY VALVE
⊙	CONNECT TO EXISTING
XXX	HYDRONIC FLOW TAG

FLOOR PLAN - MECH.

IBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

PROJECT: 2403-02
SHEETS: 1 OF 1
DATE: 06/19/24



APOLLO ENGINEERING
JUR: _____
DESIGNER: _____
JUR: _____
JOB NUMBER: 2403.01
SHEET NO.: _____
MI

FAN COIL UNIT SCHEDULE

MARK	MODEL No.	CFM			HEATING CONDITIONS			HEATING COIL			ELECTRICAL			WEIGHT	NOTES:	
		TOTAL	MIN.O.A.	EPS	MBH	EAT	LAT	GPM	WPD	EWI	LWT	VOLTS	H.P.			OCD
FC-1	24HBXB-HW	970	200	0.4	25.4	60	105	2.0	0.5"	170	150	115V, 1Ø	1/3	15A	100	THROW AWAY FILTERS, SEE NOTES.

NOTES:

- UNITS ARE BASED ON FIRST CO. ALT. AS PROVIDED BY ALPENA SUPPLY.
- HORZ. ORIENTATION FULL CABINET AND ECM FAN.
- PROVIDE FILTER BOX, ALL NECESSARY DX COMPONENTS (9EVR410-3 KIT).

ROOF VENTING EQUIPMENT

SYMBOL	BRAND	MODEL #	DESCRIPTION
RC-1	BROAN	636	ROOF CAP, FOR 8" ROUND DUCT, BUILT IN BIRD SCREEN.

NOTES:

- BASED ON BROAN.
- INSTALLATION TO BE AS PER MANUFACTURER'S RECOMMENDATIONS.

ERV SCHEDULE

MARK	MODEL No.	EA CFM	OA CFM	ESP	POWER	MCA	OCPD	REMARKS
ERV-1	EV 200 M	200	200	0.4	120V-1Ø	10A	10A	SEE NOTES

NOTES:

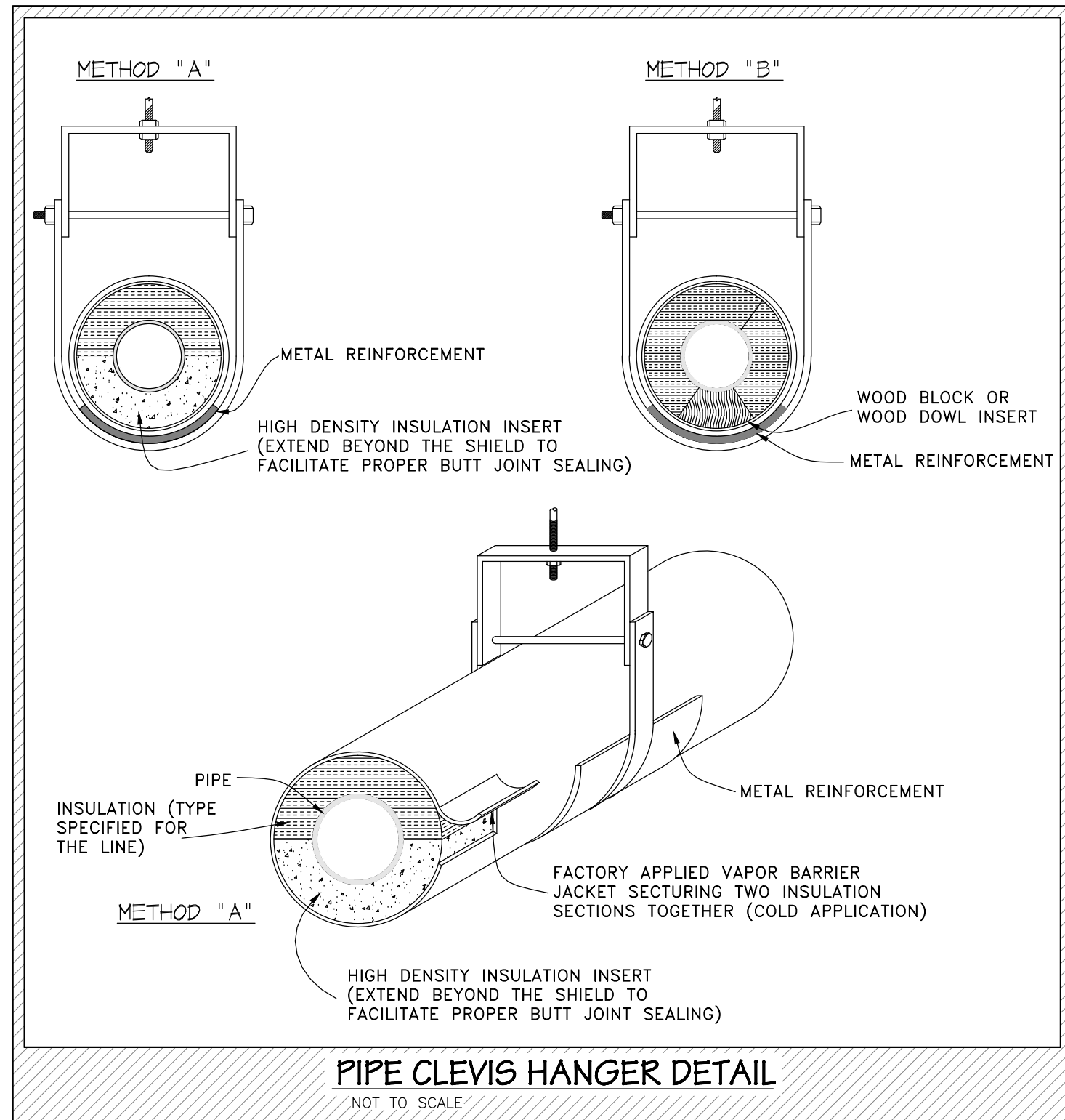
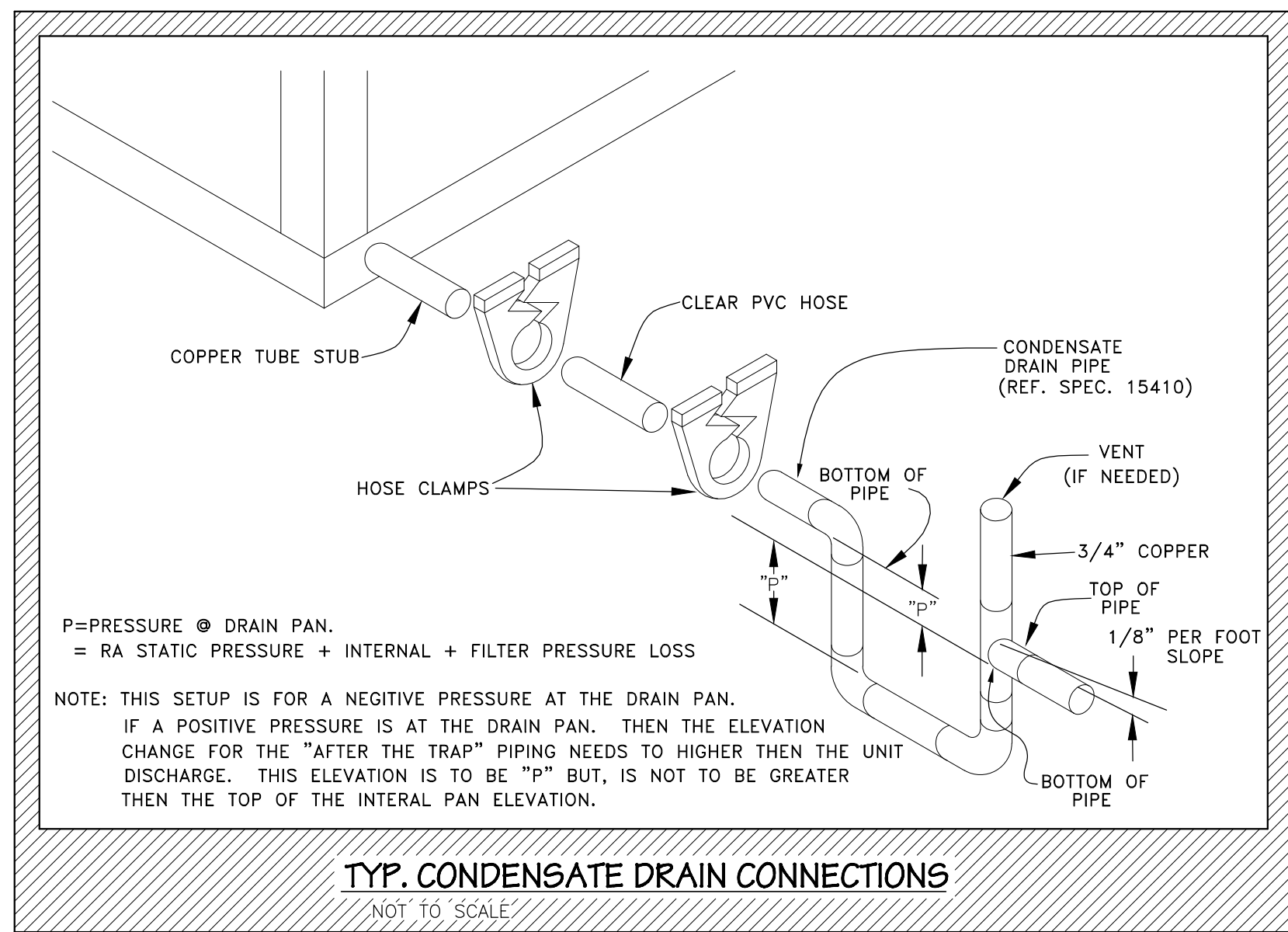
- BASED ON RENEWAIRE W/EC MOTOR OPTION.
- ERV IS TO RUN WHEN SPACES ARE OCCUPIED.
- PROVIDE POWER CORD.

DIFFUSER / GRILLE SCHEDULE

MARK	MODEL No.	CFM	SIZE	BALANCING DAMPER	COLOR	REMARKS
SD-1	TDC	40-120	9"x9" 6"NECK	NO	WHITE	BORDER TYPE 1
SD-2	TDC	130-220	12"x12" 8"NECK	NO	WHITE	BORDER TYPE 1
RG-1	355RL	50-150	30"x6"	NO	WHITE	BORDER TYPE 1
RG-2	50F	250-400	14"x14"	NO	WHITE	BORDER TYPE 1
EG-1	50F	200	12"x12"	NO	WHITE	BORDER TYPE 1
EG-1	50F	200	12"x12"	NO	WHITE	BORDER TYPE 1
TG-1	355RL	50-150	30"x6"	NO	WHITE	BORDER TYPE 1
TG-2	50F	400	12"x12"	NO	WHITE	BORDER TYPE 1

NOTES:

- BASED ON TITUS. (PRICE, T&B OR KRUGER MAY BE BID EQUALS.)
- REVIEW COLOR W/ARCHITECT BEFORE ORDERING.
- ALL SUPPLY AIR DIFFUSERS SHALL HAVE A 4-WAY AIR PATTERN UNLESS OTHERWISE INDICATED (SEE PLANS).
- PROVIDE ALL DUCT COLLARS, TRANSITIONS, CONNECTIONS AND SUPPORTS.
- PAINT INSIDE OF DUCT BEHIND REGISTERS AND GRILLES FLAT BLACK.



CONDENSING UNIT SCHEDULE

MARK	UNIT SERVED	MODEL No.	NOMINAL GLG. CAP.	ELECTRICAL OPERATING	MCA	BKR	WEIGHT	REMARKS
CU-1	FC-1	24ACB724A0030	2 TONS	208V, 1Ø	14.5A	20	183	SEE NOTES

NOTES:

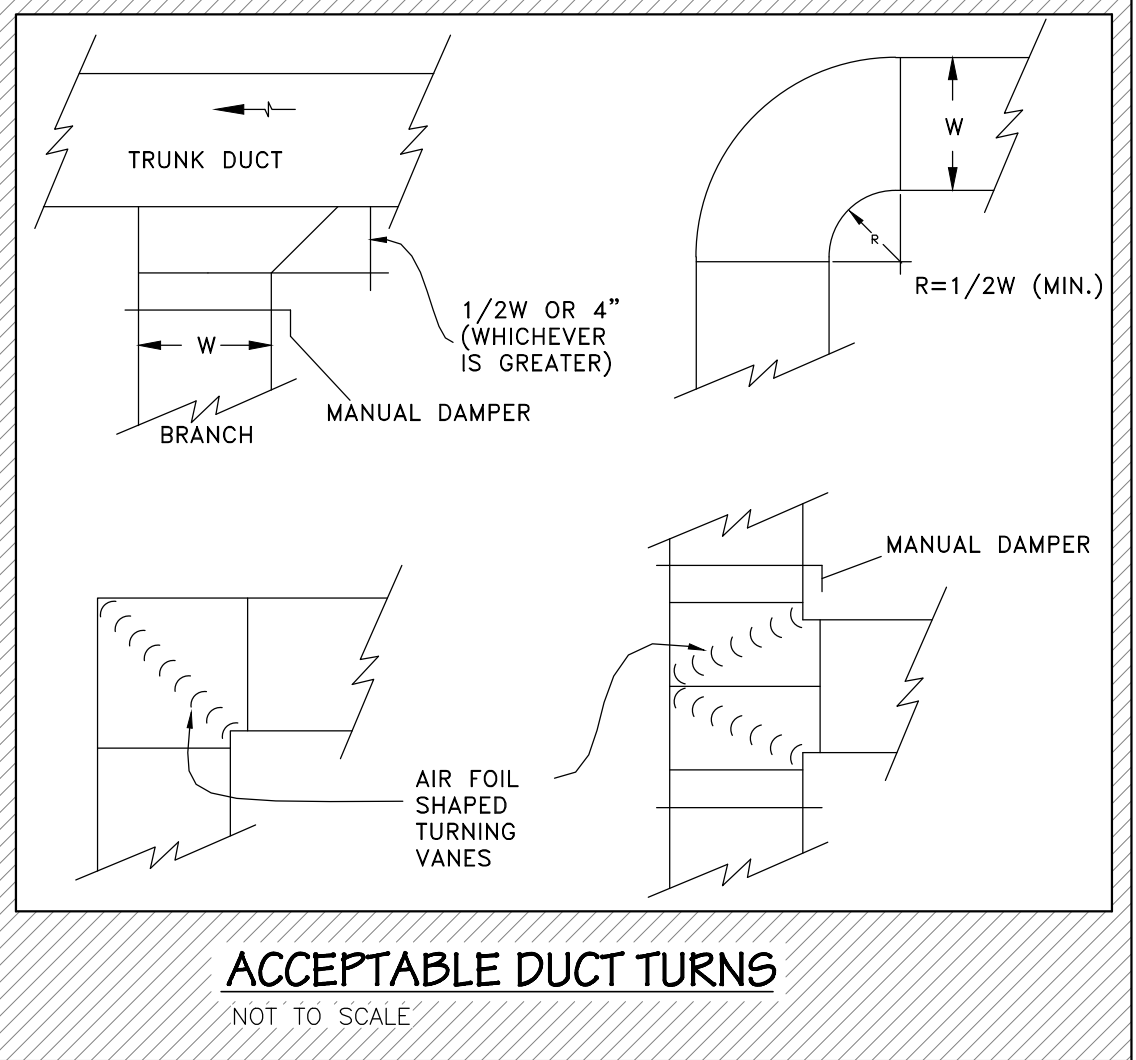
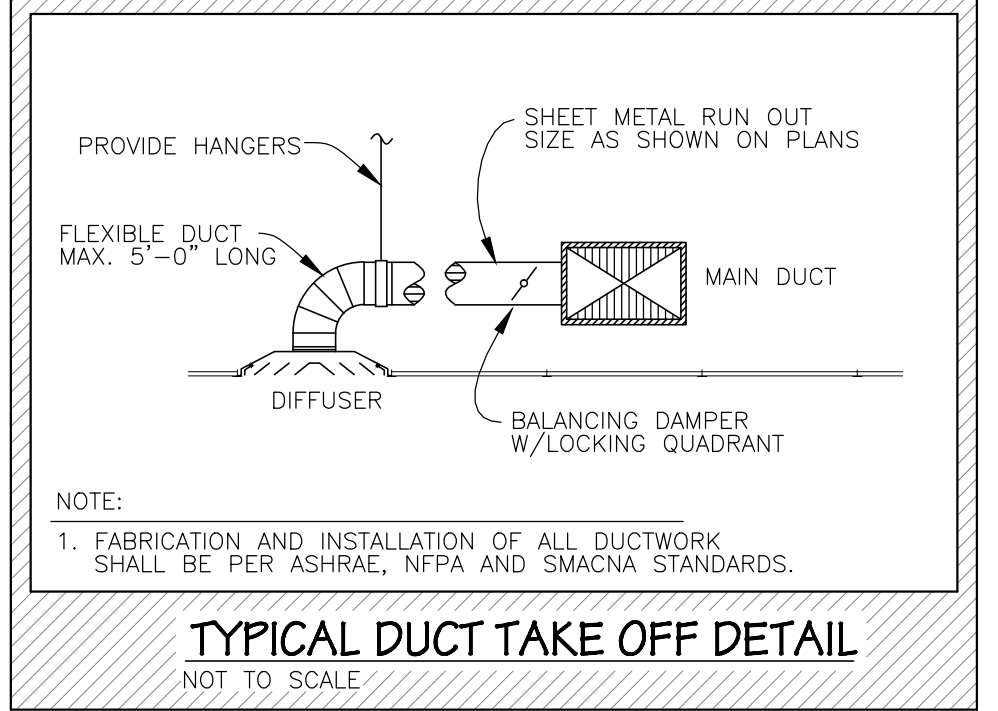
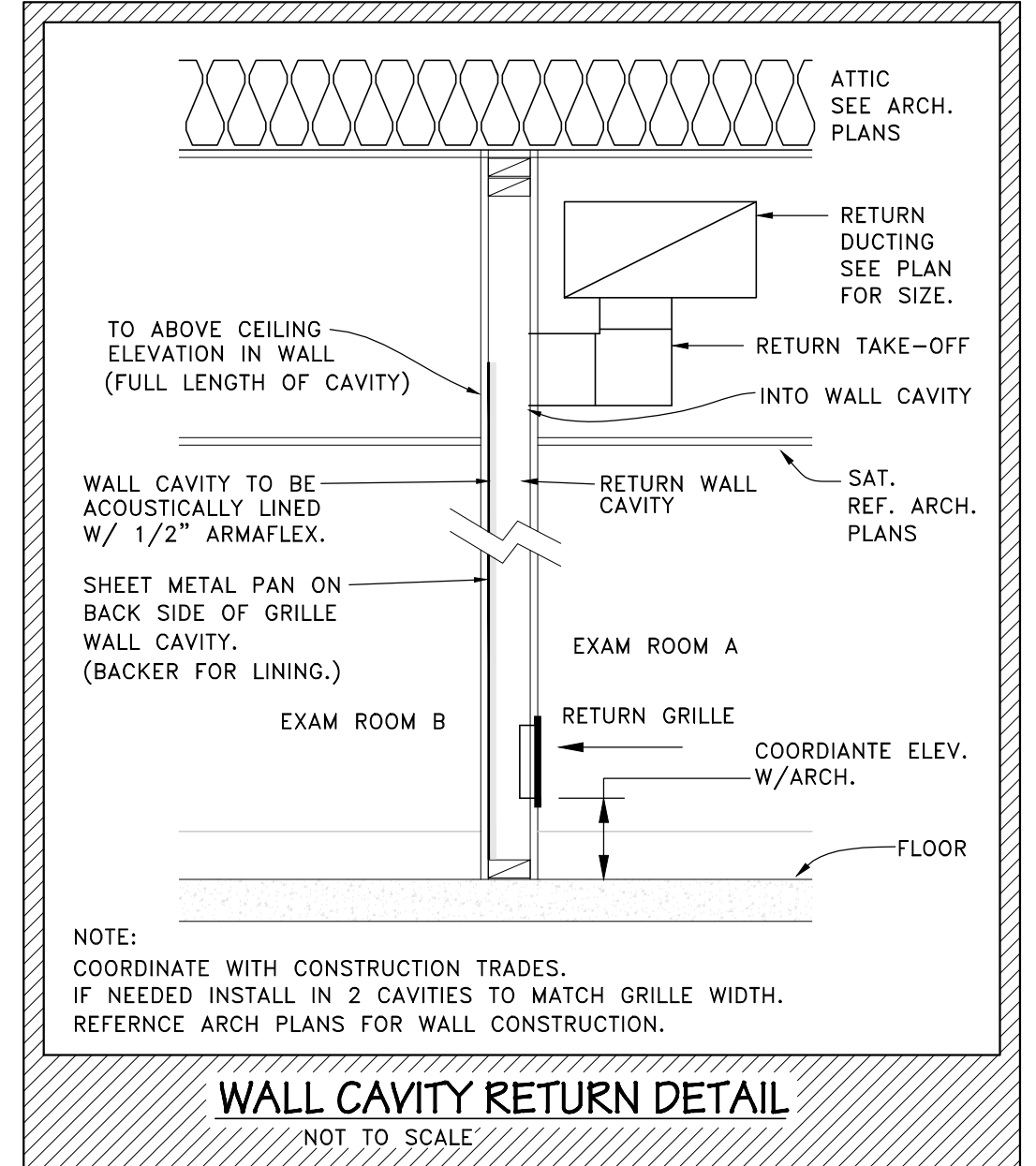
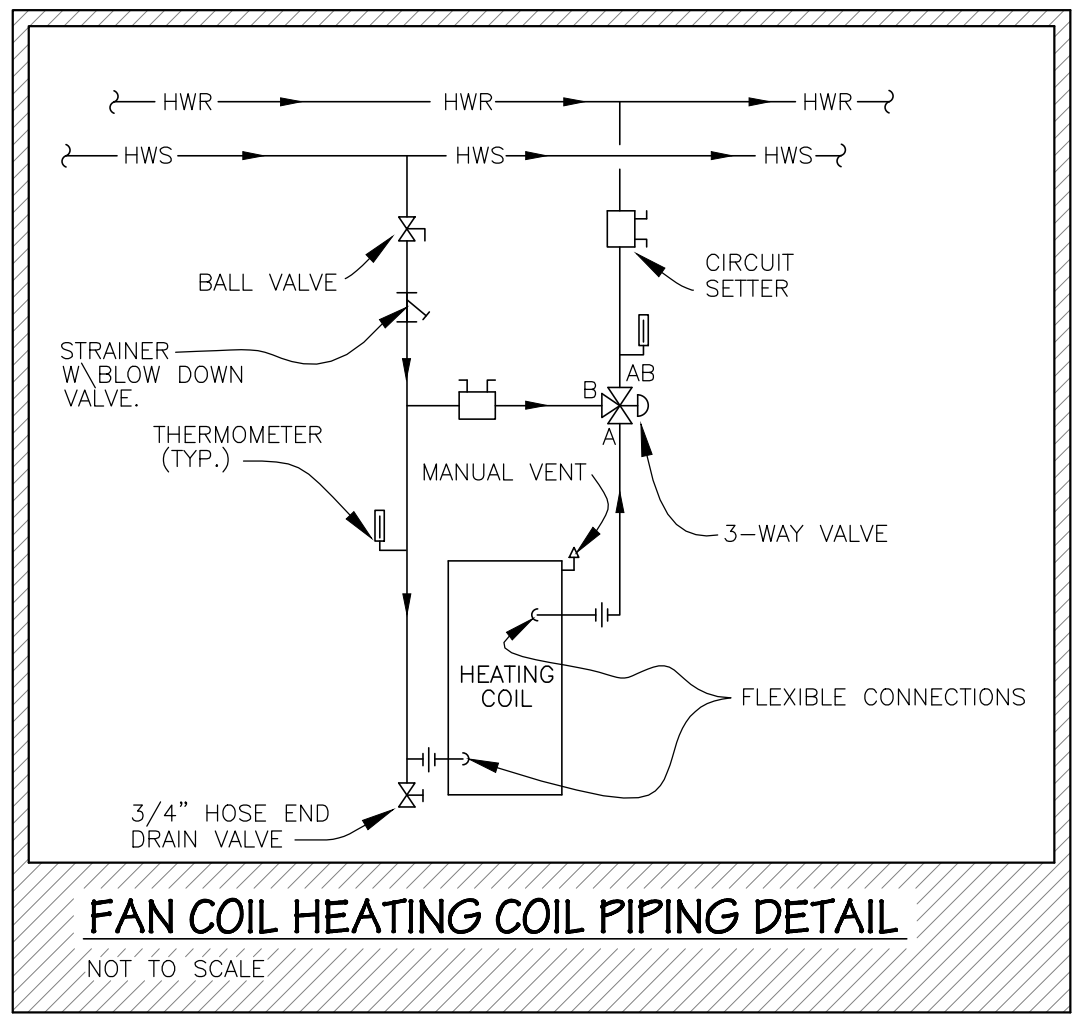
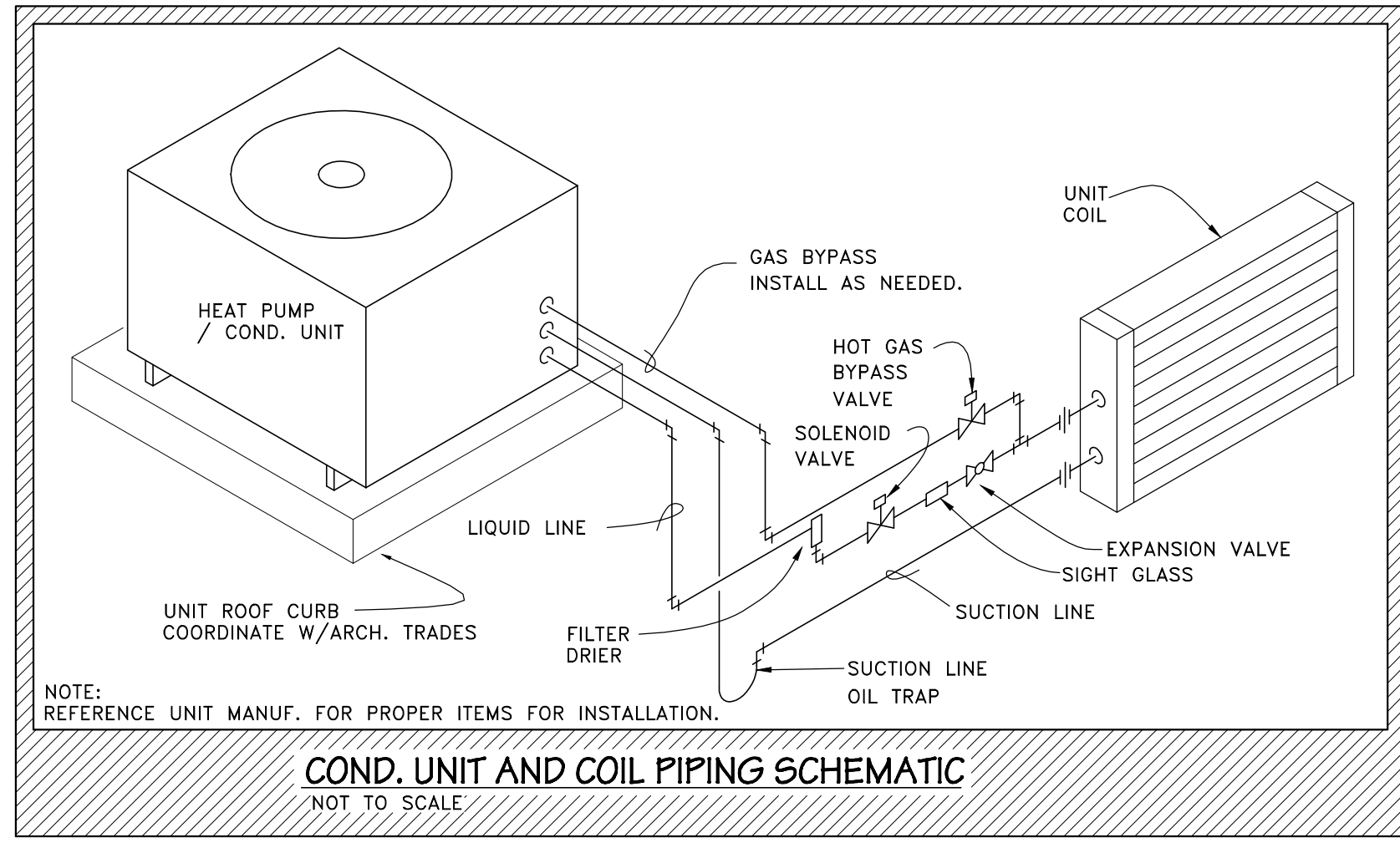
- BASED ON CARRIER. ALT. AS PROVIDED BY ALPENA SUPPLY.
- CARRIER UNITS TO BE HAVE SCROLL COMPRESSORS.
- M.C. TO MOUNT UNIT ON GROUND BASE.
- UNITS TO HAVE PURON R-410R REFRIGERANT, 16.0 SEER.
- UNITS TO HAVE COMFORT CONTROL.

BLOWER FAN SCHEDULE

MARK	MODEL No.	CFM @ E.S.P.	RATED SONES	ELECTRICAL	APPROX. WEIGHT	REMARKS
BF-1	GC-622	400 @ 0.25"	2.5	120V, 1Ø, 117W	26	IN-LINE INSTALLATION, W/VIBRATION ISOLATORS

NOTES:

- BASED ON LOREN COOK. (GREENHECK MAY BE BID AS EQUAL).
- INCLUDE SPEED CONTROLLER, GRILLE AND BACKDRAFT DAMPER.



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PROJECT TITLE

SCHED./DETAIL - MECH.

IBCHS, INC.

ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

PROJECT

ISSUED

ENGINEER

CODE REVIEW 06/19/24

DESIGNER

ENGINEER

JOB NUMBER

2403.01

SHEET NO.

M2

PROJECT 2403-02

3500 S. West Bayshore Dr.
Troy, MI 48068
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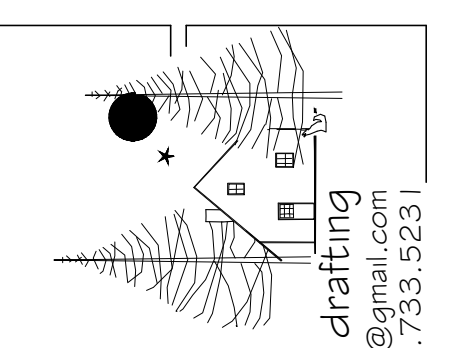
APOLLO ENGINEERING

JOHN JOSEPH RICHARDS ENGINEER No. 62010-43982

STATE OF MICHIGAN

PROFESSIONAL ENGINEER

SN-0351



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FLOOR PLAN - PLUMBING

IBCHS, INC.
ROGERS CITY ELEMENTARY SCHOOL 2024
ROGERS CITY, MICHIGAN 49779

PROJECT: PROJECT 2403-03
ISSUED: 06/18/24
CODE REVIEW: 06/18/24
ENGINEER: JOHN JOSEPH RICHARDS, ENGINEER No. 62010-43967
DESIGNER: JLR
JOB NUMBER: 2403.01
SHEET NO.: P1



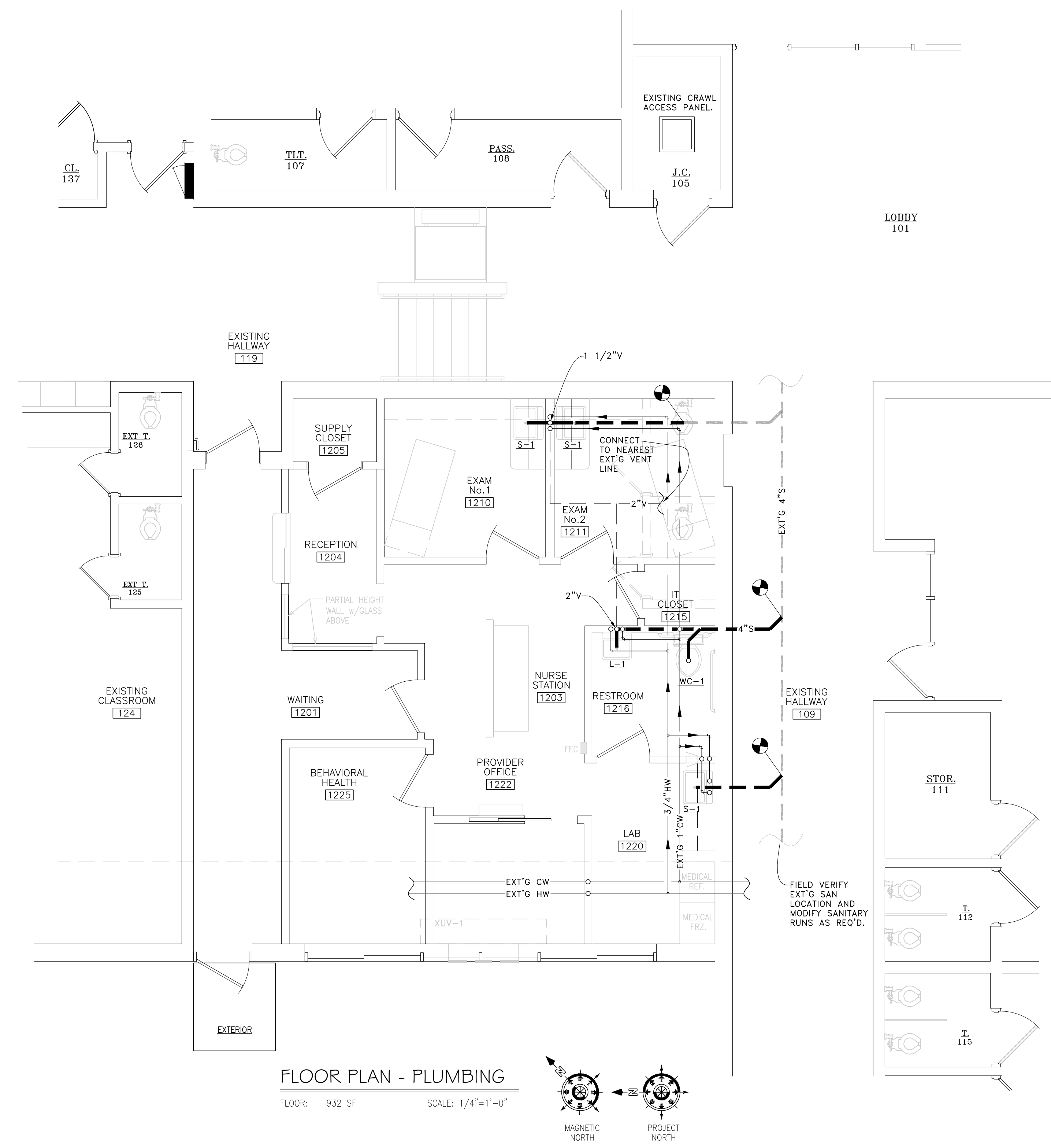
PLUMBING LEGEND			
— S —	SANITARY SEWER		
— V —	SANITARY VENT		
— CW —	COLD WATER LINE		
— HW —	HOT WATER LINE		

PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	MANU.	MODEL	SAN.	HOT	COLD	REMARKS
WC-1	WATER CLOSET	AM. STD.	2467.100	3"	—	1"	W/ BEMIS #1055 SEAT, 17" HIGH
L-1	LAVATORY	AM. STD.	0355.027	1 1/2"	1/2"	1/2"	W/ DELTA FAUCET #501
S-1	SINK	ELKAY	BLR-150C	1 1/2"	1/2"	1/2"	COMBINATION INCLUDES FAUCET

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR ALL ROUGH-IN LOCATIONS OF PLUMBING FIXTURES.
2. WC-1 TO CONFORM TO ADA REQUIREMENTS.
3. VERIFY COLOR WITH ARCHITECT BEFORE ORDERING.
4. INSULATE ALL EXPOSED SANITARY AND DOMESTIC HOT AND COLD WATER PIPING TO LAVATORIES.
5. PROVIDE A POWERS 480 MIXING VALVE AT EACH LAV.
6. PROVIDE A SURE SEAL MODEL #SS2009 TRAP SEAL AT EACH FLOOR DRAIN

PLUMBING NOTES	
GENERAL NOTES	
1.	ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
2.	EACH CONTRACTOR SHALL BE THOROUGHLY KNOWLEDGEABLE OF REGULATIONS GOVERNING HIS PRODUCT AND SERVICE AND SHALL ASSUME RESPONSIBILITY OF INSTALLATION IN ACCORDANCE WITH THOSE REGULATIONS.
3.	CONTRACTORS TO VERIFY ALL DIMENSIONS RELATIVE TO THEIR SPECIFIC WORK AND SHALL BE THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS PRIOR TO INITIATING THEIR WORK. DISCREPANCIES SHALL BE REPORTED TO THE GENERAL CONTRACTOR OR TO HIS ON-SITE REPRESENTATIVE.
4.	FAILURE TO DETECT INFERIOR WORK, OR WORK NOT IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS, SHALL NOT BE CONSTRUED AS ACCEPTABLE OF SUCH WORK.
5.	ANY PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES FOR MECHANICAL OR PLUMBING SYSTEMS, ETC. SHALL BE FIRE-STOPPED AND DRAFT-STOPPED WITH NON-COMBUSTIBLE MATERIALS PER CODE REQUIREMENTS TO MAINTAIN STRUCTURAL AND FIRE RESISTIVE INTEGRITY.
6.	DRAWINGS ARE DIAGRAMMATIC ONLY, FIELD VERIFY EXISTING CONDITIONS.
7.	PRIOR TO SUBMITTING A PROPOSAL, BIDDER SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OF NEGLIGENCE ON HIS PART.
8.	PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, INCLUDING COSTS ASSESSED BY THE MECHANICAL UTILITY COMPANIES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF PLUMBING WORK, THE PLUMBING CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
9.	PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER. SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AT NO EXPENSE TO THE OWNER.
10.	PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCE BETWEEN HIS WORK AND OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE GENERAL CONTRACTOR OR HIS ON-SITE REPRESENTATIVE.
11.	THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF MECHANICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED.
12.	THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK.
13.	THE PLUMBING CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE MECHANICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL DISPOSE OF ALL DEBRIS AND RUBBISH AND SHALL LEAVE ALL AREAS CLEAN.

PLUMBING CONSTRUCTION NOTES	
GENERAL	
1.	REFERENCE ARCHITECTURAL DRAWINGS FOR ALL ROUGH-IN DIMENSIONS, BOTH FIXTURES AND WALLS.
2.	ALL VALVES SHALL BE ACCESSIBLE.
3.	WATER HAMMER ARRESTORS SHALL BE INSTALLED AND SHALL BE ACCESSIBLE.
SPECIFICATIONS	
1.	PLUMBING DESIGN PER LATEST MICHIGAN PLUMBING CODES.



FLOOR PLAN - PLUMBING
FLOOR: 932 SF SCALE: 1/4"=1'-0"
MAGNETIC NORTH PROJECT NORTH