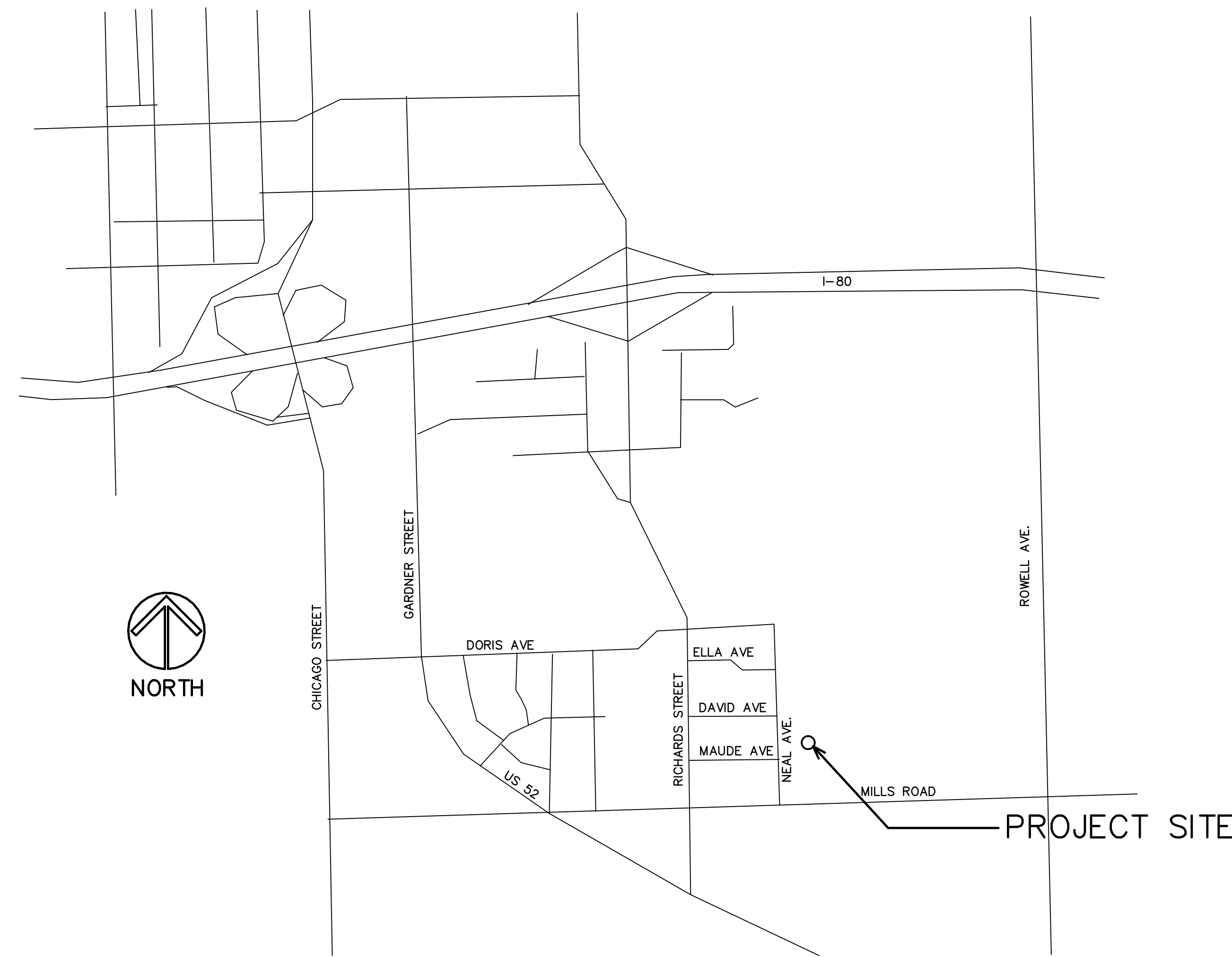


LOCATION MAP



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- D2 DEMO CEILING PLAN
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- A2 REFLECTED CEILING PLAN
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- A4 SPECIFICATIONS
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BEHAVIORAL HEALTH SUITE

WILL COUNTY COMMUNITY HEALTH CENTER
 1106 NEAL AVENUE
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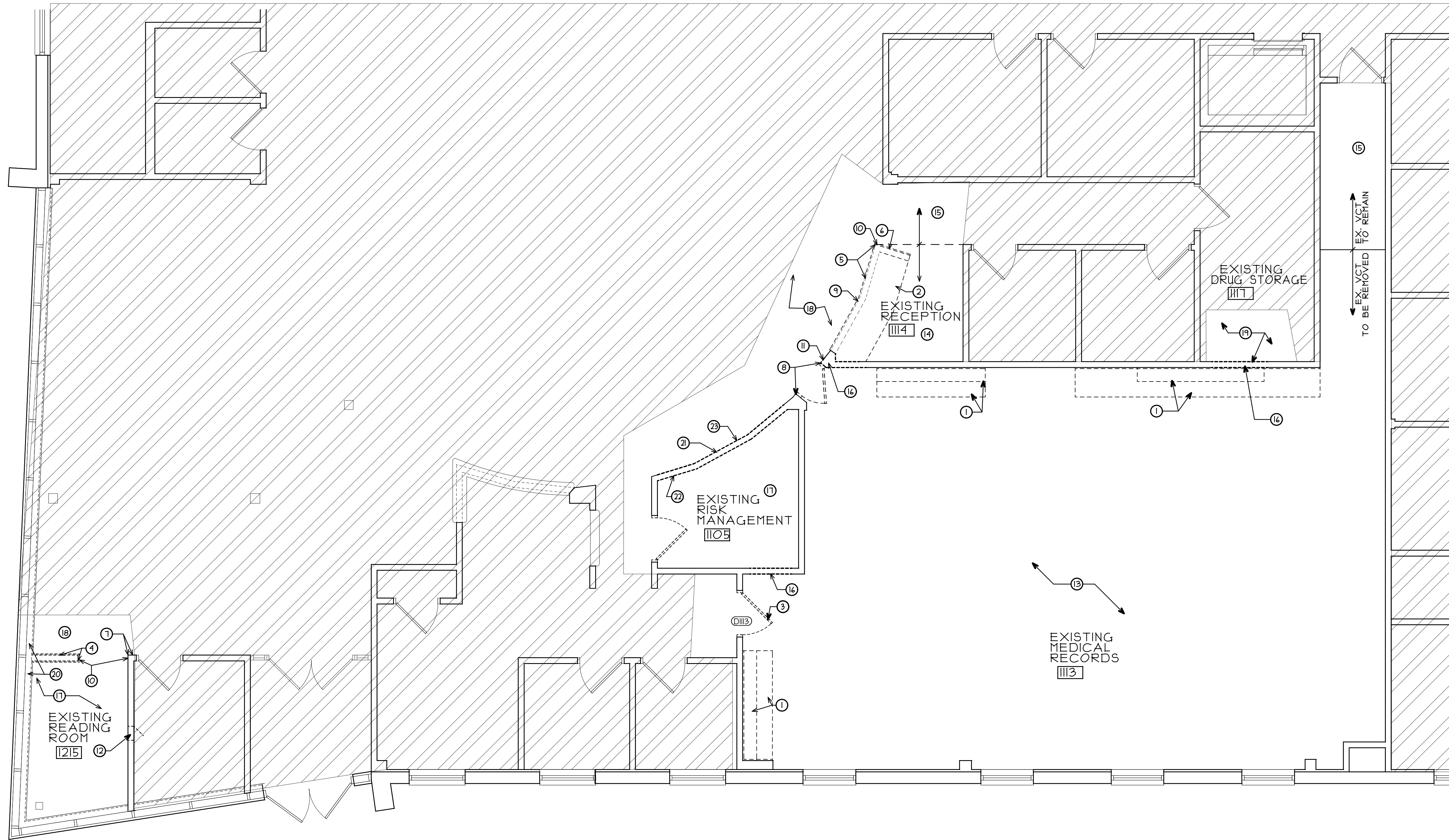
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 REVISED:

PROJECT NO.
 2202-02

SHEET NUMBER

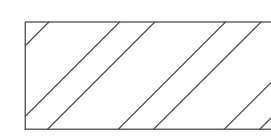
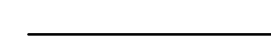
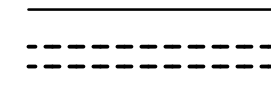
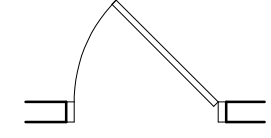


T1

OF 1 SHEETS



DEMO FLOOR PLAN
SCALE: 1/4" 1'-0"
NORTH

DEMOLITION PLAN LEGEND

-  HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE.
-  EXISTING WALLS TO REMAIN (TYPICAL)
-  EXISTING METAL STUD AND GYPSUM BOARD WALL TO BE REMOVED COMPLETELY (UNLESS NOTED OTHERWISE) VERIFY IN FIELD
-  EXISTING DOOR & FRAME TO REMAIN (TYPICAL)
-  EXISTING DOOR & FRAME TO REMOVED(TYPICAL)
-  DEMO DOOR & FRAME NUMBER - SEE DOOR SCHEDULE FOR NEW LOCATION (BY NUMBER). DOOR & FRAME NOT INDICATED IN DOOR SCHEDULE FOR REUSE ARE TO BE DISPOSED OF. ALL DOOR HARDWARE TO BE SALVAGED.

DEMOLITION PLAN GENERAL NOTES

- A. ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE, ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.
- B. ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- C. PATCH & REPAIR HOLES AND/OR DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION DURING DEMOLITION.
- D. VERIFY ANY ADDITIONAL DEMOLITION WORK REQUIRED FOR INSTALLATION OF DEVICES/EQUIPMENT SHOWN ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- E. REMOVE PORTIONS OF EXISTING GYPSUM BOARD AS REQUIRED TO INSTALL NEW ELECTRIC FEEDS, CABINET BLOCKING, ETC. COORDINATE WITH INSTALLING CONTRACTORS TO VERIFY EXACT LOCATIONS AND SIZES OF ALL REQUIRED CUTOUTS.
- F. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REMOVAL OF EQUIPMENT AND DEVICES IN WALLS BEING REMOVED.

DEMOLITION PLAN KEY NOTES

- ① EXISTING PLASTIC LAMINATE COUNTERTOP, BASE, CABINET, WALL CABINET AND SUPPORT LEGS TO BE REMOVED. (V.I.F.)
- ② EXISTING PLASTIC LAMINATE COUNTERTOP AND BASE CABINETS TO BE REMOVED. (V.I.F.)
- ③ EXISTING DOOR HARDWARE TO BE REMOVED AND SALVAGED FOR NEW DOOR. (V.I.F.)
- ④ EXISTING KNEE WALL AND WALL CAP TO BE COMPLETELY REMOVED. EXISTING TILE BASE TO BE SALVAGED IF POSSIBLE FOR REUSE. (V.I.F.)
- ⑤ EXISTING HALF WALL TO REMAIN. WALL PROTECTION AND CORNER GUARD TO BE REMOVED.
- ⑥ PORTION OF EXISTING HALF WALL TO BE REMOVED FOR INSTALLATION OF NEW WALL. (V.I.F.)
- ⑦ EXISTING CORNER GUARD AND WALL PROTECTION FROM CORNER TO DOOR FRAME TO BE REMOVED. EXISTING WALL BASE TO REMAIN. (V.I.F.)
- ⑧ EXISTING CORNER GUARDS AT REMOVED DOOR FRAME TO BE REMOVED. (V.I.F.)
- ⑨ EXISTING TILE WALL BASE ON HALF WALL TO REMAIN. (U.N.O./V.I.F.)
- ⑩ EXISTING TILE WALL BASE TO BE REMOVED AT LOCATION OF NEW WALL INFILLS. SALVAGE TILE IF POSSIBLE. (V.I.F.)
- ⑪ EXISTING WALL BASE TILE AT LOCATION OF REMOVED WALL TO BE SALVAGED IF POSSIBLE.
- ⑫ EXISTING WALL PASS THRU TO BE REMOVED. (V.I.F.)
- ⑬ EXISTING VCT FLOORING AND WALL BASE TO BE REMOVED. (V.I.F.)
- ⑭ PORTION OF EXISTING VCT FLOORING AND WALL BASE TO BE REMOVED. (V.I.F.)
- ⑮ PORTION OF EXISTING VCT FLOORING TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION.
- ⑯ REMOVE PORTION OF EXISTING GYPSUM BOARD AND METAL STUD WALL FOR NEW WALL OPENING. (V.I.F.)
- ⑰ EXISTING CARPET AND WALL BASE TO BE REMOVED. (V.I.F.)
- ⑱ EXISTING CERAMIC TILE FLOOR TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION. (V.I.F.)
- ⑲ EXISTING VCT FLOORING AND WALL BASE TO REMAIN (U.N.O.) PROVIDE PROTECTION DURING CONSTRUCTION. ONLY REMOVE WALL BASE AT LOCATION OF REMOVED PORTION OF WALL. (V.I.F.)
- ⑳ EXISTING VERTICAL BLINDS TO BE MODIFIED AS REQUIRED TO INSTALL NEW WALL INFILL. (V.I.F.)
- ㉑ REMOVE PORTION OF EXISTING GYPSUM BOARD AND METAL STUD WALL FROM 1/2"-3"-0" A.F.F. TO 1'-0" BELOW EXISTING ROOM CEILING FOR NEW WALL OPENING. (V.I.F.)
- ㉒ EXISTING SURFACE APPLIED CHAIR RAIL TO BE REMOVED.(V.I.F.)
- ㉓ EXISTING WALL PROTECTION TO REMAIN. MODIFY AS NEEDED FOR NEW WALL OPENING. PROVIDE PROTECTION DURING CONSTRUCTION.

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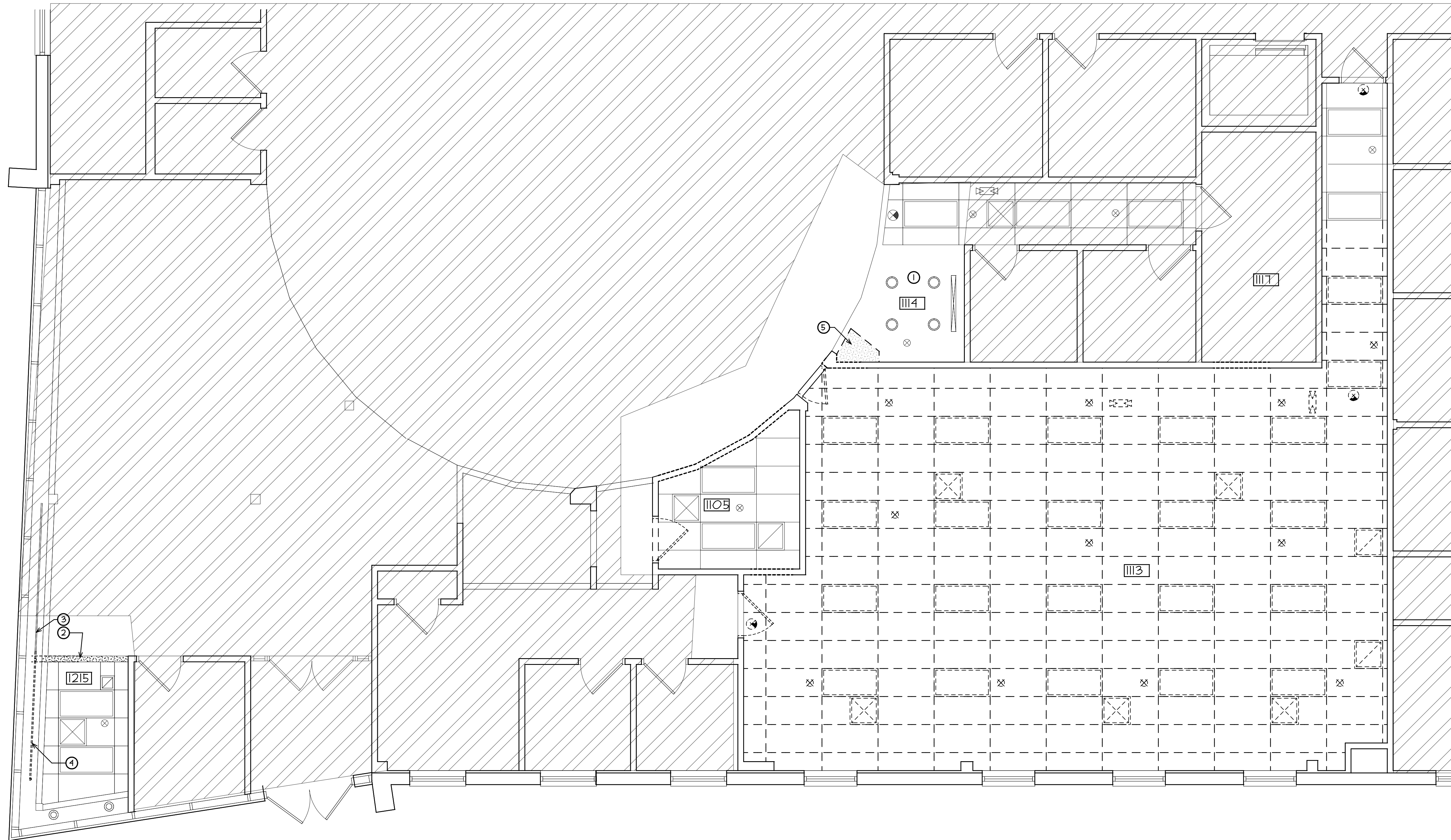
BEHAVIORAL HEALTH SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

DATE:
7/21/2022
REVISED:

PROJECT NO.
2202-02

SHEET NUMBER
D1

OF 2 SHEETS



PARTIAL DEMO CEILING PLAN
SCALE: 1/4" = 1'-0"
NORTH

DEMOLITION CEILING PLAN LEGEND

	HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE		DENOTES EXISTING LAY-IN SUPPLY DIFFUSER TO BE REMOVED - SEE MECHANICAL DRAWINGS
	DENOTES EXISTING 2' X 4' ACOUSTICAL CEILING PANEL AND GRID SYSTEM TO REMAIN (U.N.O.)		DENOTES EXISTING LAY-IN RETURN REGISTER TO BE REMOVED - SEE MECHANICAL DRAWINGS
	DENOTES EXISTING 2' X 4' ACOUSTICAL CEILING PANEL AND GRID SYSTEM TO BE REMOVED. CLEAN AND UNDAIMAGED GRID TO BE SALVAGED TO OWNER. SEE DEMO KEY NOTES FOR ADDITIONAL INFORMATION		DENOTES EXISTING CEILING MOUNTED EXIT SIGNAGE FIXTURE TO REMAIN - SEE ELECTRICAL DRAWINGS
	DENOTES EXISTING LAY-IN/SURFACE MOUNTED LIGHTING FIXTURE IN ACOUSTIC CEILING TO REMAIN		DENOTES EXISTING CEILING MOUNTED EXIT SIGNAGE FIXTURE TO BE REMOVED - SEE ELECTRICAL DRAWINGS
	DENOTES EXISTING LAY-IN/ SURFACE MOUNTED LIGHTING FIXTURE TO BE REMOVED - SEE ELECTRICAL DRAWINGS		DENOTES EXISTING SPRINKLER TO REMAIN.
	DENOTES EXISTING RECESSED LIGHT FIXTURE TO REMAIN.		DENOTES EXISTING SPRINKLER TO BE REMOVED. SEE FIRE PROTECTION DRAWINGS
	DENOTES EXISTING LAY-IN SUPPLY DIFFUSER TO REMAIN - SEE MECHANICAL DRAWINGS		DENOTES EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE TO REMAIN.
	DENOTES EXISTING LAY-IN RETURN REGISTER TO REMAIN - SEE MECHANICAL DRAWINGS		DENOTES EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE TO BE REMOVED.- SEE ELECTRICAL DRAWINGS

DEMO CEILING PLAN GENERAL NOTES

- ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE, ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.
- ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- PATCH & REPAIR HOLES AND/OR DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION DURING DEMOLITION.
- VERIFY ANY ADDITIONAL DEMOLITION WORK REQUIRED FOR INSTALLATION OF DEVICES/EQUIPMENT SHOWN ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REMOVAL OF EQUIPMENT AND DEVICES IN CEILINGS BEING REMOVED.
- EXISTING DEVICES THAT ARE TO REMAIN ON CEILINGS WHERE EXISTING CEILING PANELS ARE REMOVED AND REPLACED DEVICES SHOULD BE REMOVED AND REINSTALLED AFTER NEW CEILING PANELS ARE INSTALLED. (V.I.F.)
- REMOVE AND REINSTALL PORTIONS OF EXISTING CEILING BELOW PROJECT AREA AS NECESSARY FOR NEW PLUMBING WORK. WORK TO CEILING BELOW TO BE KEPT TO MINIMUM AS POSSIBLE. (V.I.F.) COORDINATE WITH OWNER FOR ACCESS TO SPACES OUTSIDE OF PROJECT AREA. SEE PLUMBING DRAWINGS.

DEMO CEILING PLAN KEY NOTES

- EXISTING HARD CEILING TO REMAIN IN THIS AREA. (V.I.F.)
- EXISTING HORIZONTAL GYPSUM BOARD BOTTOM FACE OF EXISTING HEADER TO BE REMOVED. EXISTING HEADER STRUCTURE AND VERTICAL FACES TO REMAIN. (V.I.F.)
- PORTION OF EXISTING TRACK LIGHTING TO REMAIN. SEE ELECTRICAL DRAWINGS
- REMOVE PORTION OF EXISTING TRACK LIGHTING TRACK AND SPOTS. PATCH CEILING WITH "LIKE MATERIALS". EXISTING PORTION OF TRACK LIGHTING TO REMAIN TO BE PROPERLY CAPPED. SEE ELECTRICAL DRAWINGS.
- REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING FOR INSTALL OF NEW FULL HEIGHT WALL. EXISTING SUSPENSION SYSTEM TO BE MODIFIED AND RE-SUPPORTED AS NECESSARY. (V.I.F.)

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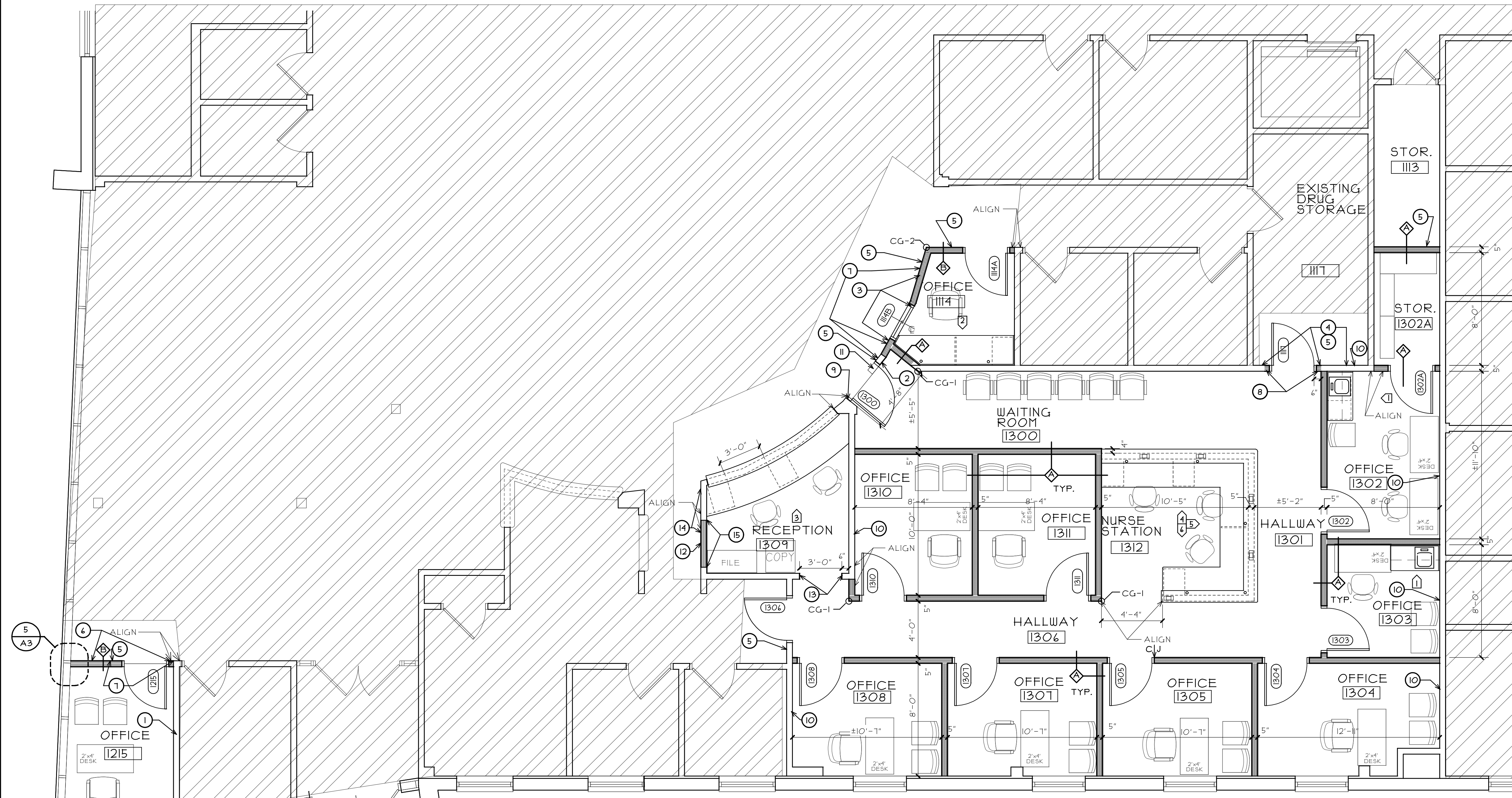
NUMBER
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BEHAVIORAL HEALTH SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

DATE: 7/21/2022
REVISED:

PROJECT NO.
2202-02

SHEET NUMBER
D2
OF 2 SHEETS



PARTIAL NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"
NORTH

FLOOR PLAN LEGEND

- HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE
- DENOTES EXISTING PARTITIONS TO REMAIN (V.I.F.)
- DENOTES NEW PARTITIONS, TYPE AS FOLLOWS:
- DENOTES 3 5/8" METAL STUDS AT 16" O.C. WITH 3 1/2" SOUND BLANKET INSULATION IN ALL CAVITIES, AND ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, RUN STUDS, INSULATION AND BOTH LAYERS OF GYPSUM BOARD TO UNDERSIDE OF EXISTING DECK ABOVE. (V.I.F.) TYPICAL ALL WALLS UNLESS NOTED OTHERWISE PROVIDE ACOUSTICAL SEALANT AT BOTTOM OF WALL AND WALL PENETRATIONS.
- DENOTES 3 5/8" METAL STUDS AT 16" O.C. WITH 3 1/2" SOUND BLANKET INSULATION IN ALL CAVITIES, AND ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, RUN STUDS, INSULATION AND BOTH LAYERS OF GYPSUM BOARD TO UNDERSIDE OF EXISTING CEILING / SOFFIT ABOVE. (V.I.F.)
- DENOTES EXISTING DOOR AND FRAME TO REMAIN (V.I.F.)

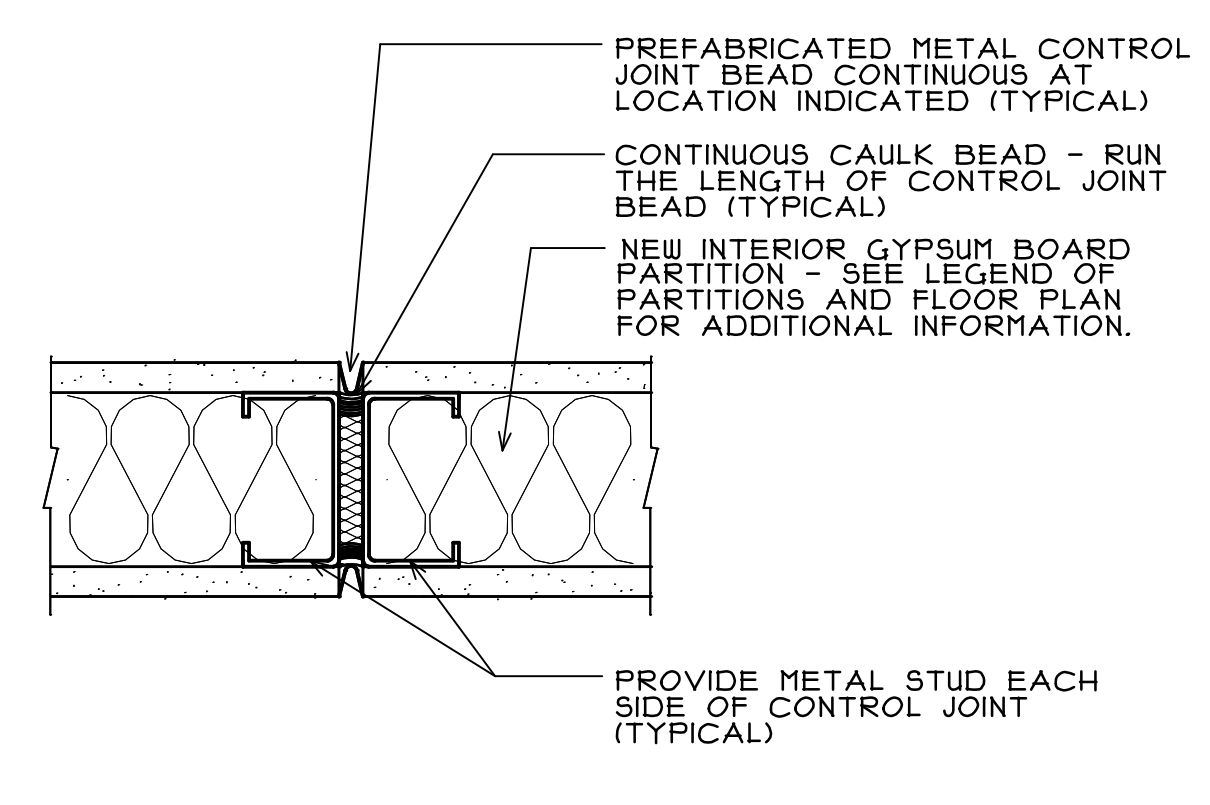
- DENOTES NEW / RELOCATED / EXISTING DOOR AND/OR FRAME. SEE DOOR MARK IN DOOR AND FRAME SCHEDULE.
- ALL CHANGES IN FLOOR FINISH MATERIAL OR COLOR ARE TO OCCUR UNDER CENTER OF DOOR / OPENING OR AT LOCATIONS INDICATED. SEE ROOM FINISH SCHEDULE FOR FLOORING TYPE IN EACH ROOM.
- INTERIOR VIEWS INDICATED WITH THESE TAGS REFERENCE ELEVATIONS KEYED BY THE INDICATED NUMBER ON DRAWING SHEET A3.
- NEW PLASTIC SURFACE MOUNTED CORNER GUARD - CORNER GUARD TO START AT TOP OF WALL BASE AND UP TO 4'-0" A.F.F. (SEE SERIES BY CONSTRUCTION SPECIALTIES OR APPROVED EQUAL)
- NEW PLASTIC SURFACE MOUNTED CORNER GUARD THAT MATCHES WALL PROTECTION. MATCH HEIGHT OF WALL PROTECTION. (VA SERIES BY CONSTRUCTION SPECIALTIES OR APPROVED EQUAL)
- PROVIDE CONTROL JOINT IN GYPSUM BOARD PARTITION AT LOCATIONS INDICATED, AND AT LOCATIONS RECOMMENDED BY THE MANUFACTURER AND INSTALLER. JOINTS TO BE FULL HEIGHT. SEE SPECIFICATIONS AND DETAIL 1 ON SHEET A1.

FLOOR PLAN KEY NOTES

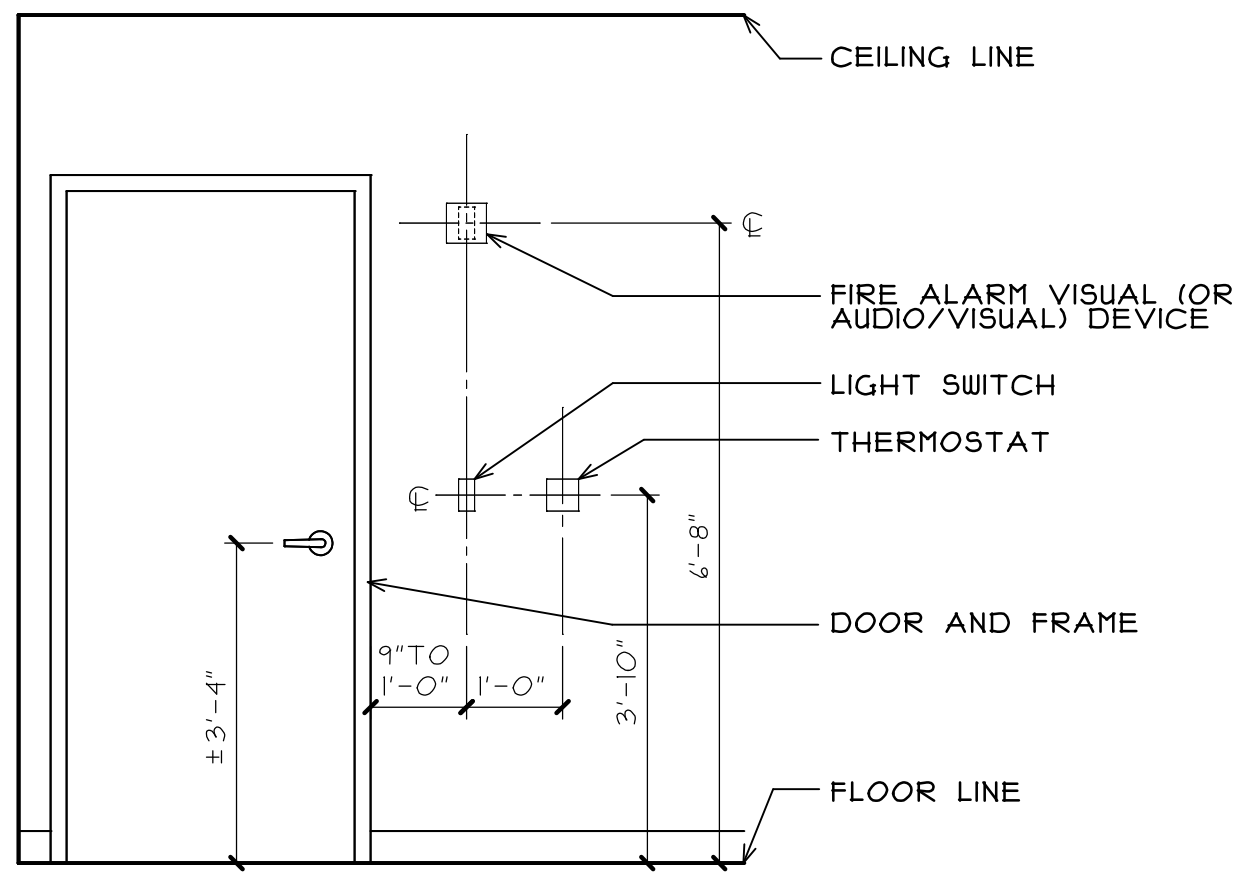
- 1 INFILL WALL WITH "LIKE MATERIALS" AT LOCATION OF REMOVED WALL PASS THRU.
- 2 AT LOCATIONS OF REMOVED WALLS (SEE DEMOLITION PLANS) EXISTING WALLS TO REMAIN ARE TO BE PATCHED WITH "LIKE" MATERIALS MATCHING ADJOINING (SIZE, THICKNESS, ETC.) V.I.F.
- 3 INFILL WALL ABOVE EXISTING HALF WALL AND SOFFIT ABOVE WITH "LIKE MATERIALS" MATCHING ADJOINING (SIZE, THICKNESS, ETC.) V.I.F.
- 4 PATCH BACK IN NEW MATCHING WALL BASE TO NEW DOOR FRAME.
- 5 PAINT ENTIRE WALL WITH NEW MATCHING PAINT TO MATCH ADJACENT. (V.I.F.)
- 6 PROVIDE NEW/SALVAGED MATCHING TILE WALL BASE ON WALL. (V.I.F.)
- 7 PROVIDE NEW MATCHING IMPACT WALL PROTECTION WAJNSCOT ON NEW WALL. (V.I.F.) COORDINATE HEIGHT WITH EXISTING.
- 8 INFILL WALL WITH "LIKE MATERIALS" BACK TO NEW DOOR FRAME.
- 9 NEW DOOR FRAME TO BE INSTALLED TIGHT TO EXISTING OPENING AT HINGE SIDE. (V.I.F.)
- 10 EXISTING WALL TO BE VERIFIED IF GYPSUM BOARD AND SOUND ATTENTION BLANKET GOES UP TO EXISTING DECK ABOVE BOTH SIDES. IF NOT EXTEND SOUND BATTS AND BOTH LAYERS OF GYPSUM BOARD MATCH EXISTING THICKNESS UP TO DECK ABOVE.
- 11 PATCH IN EXISTING CERAMIC TILE FLOORING WITH NEW MATCHING TILE TO NEW DOOR FRAME. (V.I.F.)
- 12 INFILL WALL WITH "LIKE MATERIALS" AT LOCATION OF REMOVED DOOR AND FRAME. (V.I.F.)
- 13 PROVIDE 3'-0" WIDE BY 6'-8" HIGH GYPSUM BOARD CASSED OPENING.
- 14 PROVIDE NEW MATCHING WALL BASE ON THIS WALL. (V.I.F.)
- 15 CONTINUE EXISTING GYPSUM CONTROL JOINTS DOWN TO FLOOR AT LOCATION OF REMOVED DOOR AND FRAME. (V.I.F.) SEE DETAIL 1 ON SHEET A1.

GENERAL NOTES

- A. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.
- B. NEW M-E-P SERVICES IN EXISTING METAL AND GYPSUM BOARD WALLS MAY BE "FISHED DOWN" IF POSSIBLE, OR THE WALL IS TO BE CHANNEL CUT AND PATCHED WITH "LIKE" MATERIALS. COORDINATE WITH M-E-P TRADES.
- C. PROVIDE ALL REQUIRED IN WALL BLOCKING FOR NEW/SALVAGED WALL HUNG EQUIPMENT. COORDINATE WITH OWNER FOR OWNER PROVIDED EQUIPMENT.
- D. VERIFY ALL EXISTING DIMENSIONS IN FIELD AND REPORT ALL DISCREPANCIES PRIOR TO NEW CONSTRUCTION.
- E. FURNITURE IS SHOWN FOR REFERENCE ONLY (F.B.O.)
- F. ALL PENETRATIONS (NEW AND EXISTING) OF SUSPENDED FLOOR SLABS SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL TO PREVENT THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.
- G. PENETRATIONS (NEW AND EXISTING) OF FIRE RATED SUSPENDED FLOOR SLABS (VERIFY LOCATIONS) SHALL BE SEALED WITH AN APPROPRIATE UL LISTED THROUGH-WALL PENETRATION FIRESTOPPING SYSTEM RATED FOR 1-HOURS.



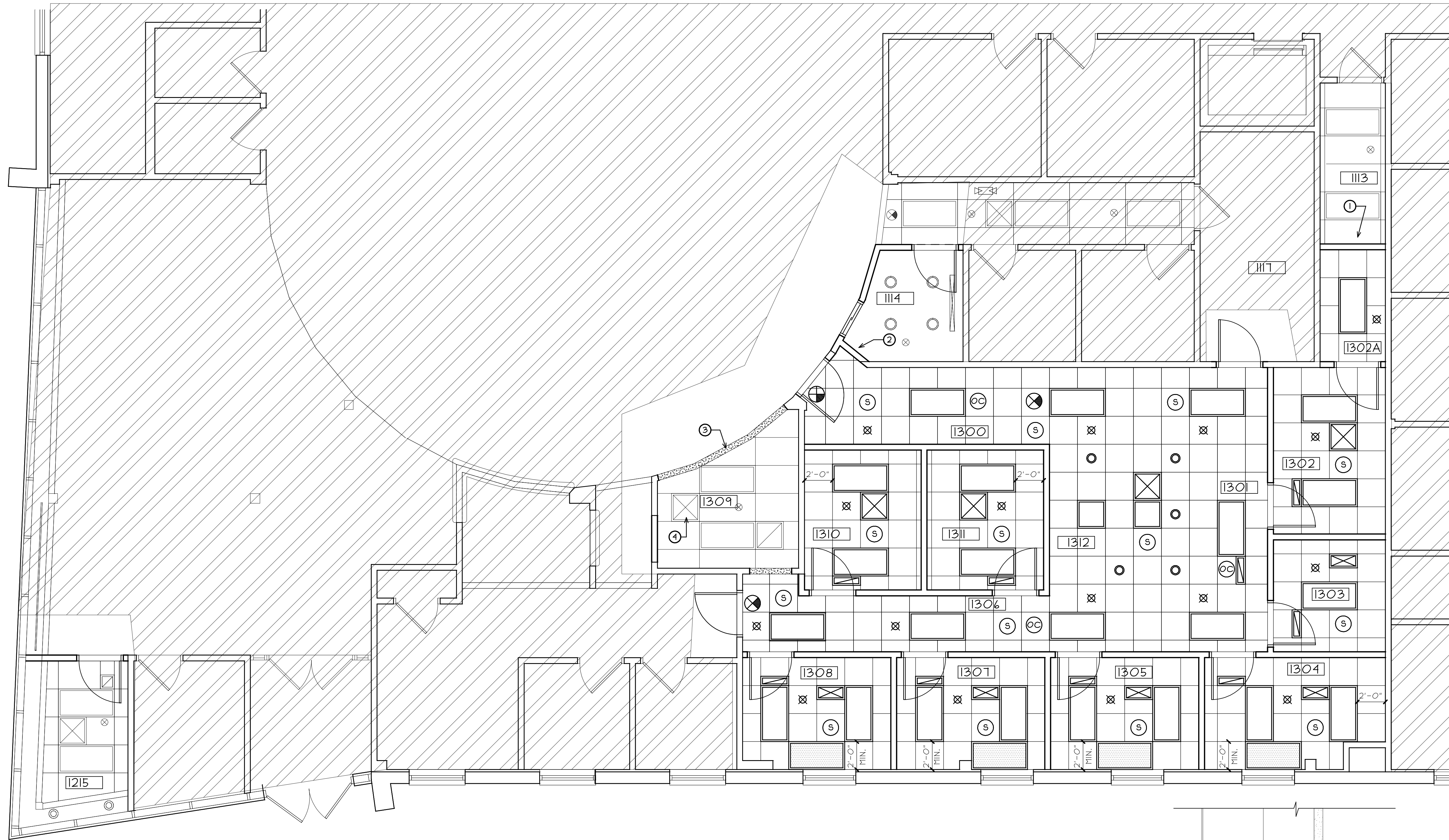
DETAIL AT GYPSUM BOARD WALL CONTROL JOINT
SCALE: 3" = 1'-0"



TYPICAL DEVICE LOCATIONS
SCALE: 1/2" = 1'-0"


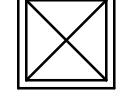
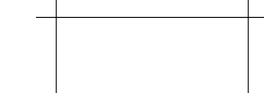
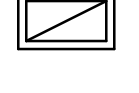
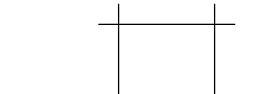
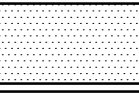
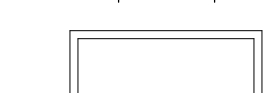
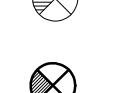


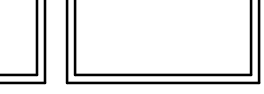



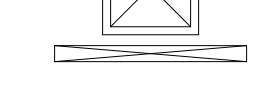



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PARTIAL NEW REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"
NORTH

CEILING PLAN LEGEND

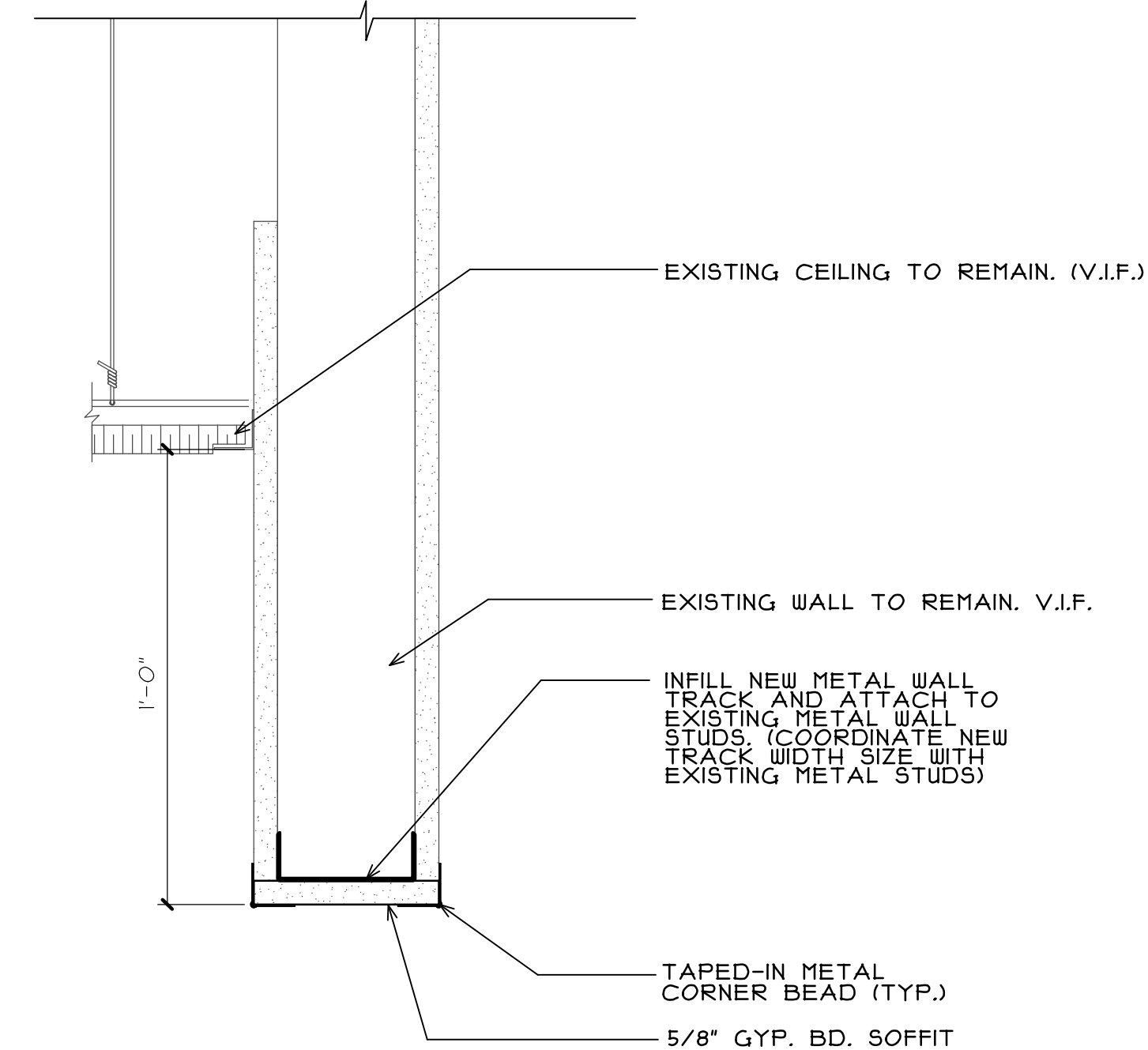
	HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE		DENOTES NEW LAY-IN SUPPLY DIFFUSER IN ACOUSTICAL CEILING - SEE MECHANICAL DRAWINGS.
	DENOTES EXISTING SUSPENDED CEILING GRID SYSTEM (GRID AND PANELS) UNLESS NOTED OTHERWISE		DENOTES NEW RETURN/EXHAUST REGISTER IN ACOUSTICAL/GYPSUM CEILING - SEE MECHANICAL DRAWINGS.
	DENOTES NEW 2' X 2' SUSPENDED CEILING GRID SYSTEM. MATCH EXISTING GRID AND PANELS. COORDINATE WITH OWNER FOR BRAND AND TYPE.		DENOTES NEW LAY-IN RADIANT PANEL ACUSTIC CEILING. SEE MECHANICAL AND ELECTRICAL DRAWINGS
	DENOTES EXISTING LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING		DENOTES EXISTING EXIT SIGN TO REMAIN
	DENOTES EXISTING RECESSED LIGHT FIXTURE TO REMAIN.		DENOTES NEW CEILING MOUNTED EXIT SIGNAGE FIXTURE - MATCH EXISTING BUILDING STANDARD
	DENOTES NEW LED LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING. SEE ELECTRICAL DRAWINGS		DENOTES EXISTING SPRINKLER HEAD TO REMAIN
	DENOTES NEW LED RECESSED LIGHT FIXTURE IN CENTER OF ACOUSTIC PANEL. SEE ELECTRICAL DRAWINGS		DENOTES NEW SPRINKLER HEAD LOCATION. HEAD TO BE CENTERED IN CEILING PANELS IN BOTH DIRECTIONS - SEE FIRE PROTECTION DRAWINGS.
	DENOTES EXISTING LAY-IN SUPPLY DIFFUSER TO REMAIN - SEE MECHANICAL DRAWINGS		DENOTES NEW CEILING MOUNTED OCCUPANCY SENSOR - SEE ELECTRICAL DRAWINGS.
	DENOTES EXISTING LAY-IN RETURN REGISTER TO REMAIN - SEE MECHANICAL DRAWINGS		DENOTES NEW CEILING MOUNTED SOUND MASKING SPEAKER - SEE ELECTRICAL DRAWINGS. (ALTERNATE 1)

CEILING PLAN GENERAL NOTES

- A. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.
- B. CEILING GRID AND LAY-IN PANEL TYPES ARE INDICATED IN THE ROOM FINISH SCHEDULE FOR EACH ROOM.
- C. COORDINATE WITH AND ALLOW OWNER'S SEPARATE VENDORS ACCESS TO CEILING INTERSTITIAL SPACES FOR INSTALLATION OF WIRING AND EQUIPMENT PRIOR TO INSTALLING LAY IN CEILING PANELS.
- D. ALL GYPSUM BOARD SOFFITS, HEADERS, ETC. WITHIN THE WORK AREA ARE TO RECEIVE A NEW PAINT FINISH.
- E. CONTRACTOR TO PROVIDE ALTERNATE PRICE (ALTERNATE 1) FOR NEW CEILING MOUNTED SOUND MASKING SYSTEM. SEE ELECTRICAL DRAWINGS

CEILING PLAN KEY NOTES

- ① INFILL EXISTING CEILING BACK TO NEW WALLS WITH SALVAGED GRID PIECES AND PANELS (HEIGHT TO MATCH EXISTING CEILING)
- ② PATCH IN EXISTING GYPSUM BOARD CEILING BACK TO NEW WALL WITH "LIKE" MATERIALS AND TAPE-IN.
- ③ PROVIDE NEW GYPSUM BOARD SOFFIT. SEE DETAIL 1 ON SHEET A2.
- ④ EXISTING SUPPLY DIFFUSER TO BE REMOVED CLEANED AND REINSTALLED. (V.I.F.)



1 A2 GYPSUM BOARD SOFFIT
SCALE: 3" = 1'-0"

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REGISTRATION

stromsland + de young + prybys
ARCHITECTURE GROUP
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Joliet, Illinois 60433
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815-727-1311
L. N. : 184-000437

NUMBER

SET

BEHAVIORAL HEALTH SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

DATE: 7/21/2022
REVISED:

PROJECT NO.
2202-02

SHEET NUMBER

A2

OF 6 SHEETS

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.	REMARKS	ROOM NO.
1113	STORAGE	EX	EX	PNT-EGG	EX	EX	1,2	1113
1114	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	PNT-EGG	EX		1114
1117	EXISTING DRUG STORAGE	EX	EX	EX	EX	EX	3	1117
1215	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	EX	EX		1215
1300	WAITING ROOM	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1300
1301	HALLWAY	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1301
1302	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1302
1302A	STORAGE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1302A
1303	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1303
1304	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1304
1305	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1305
1306	HALLWAY	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1306
1307	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1307
1308	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1308
1309	RECEPTION	LVT	4" VINYL - COVED	PNT-EGG	EX	EX		1309
1310	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1310
1311	OFFICE	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1311
1312	NURSE STATION	LVT	4" VINYL - COVED	PNT-EGG	APC-1	9'-0"		1312

SCHEDULE ABBREVIATIONS

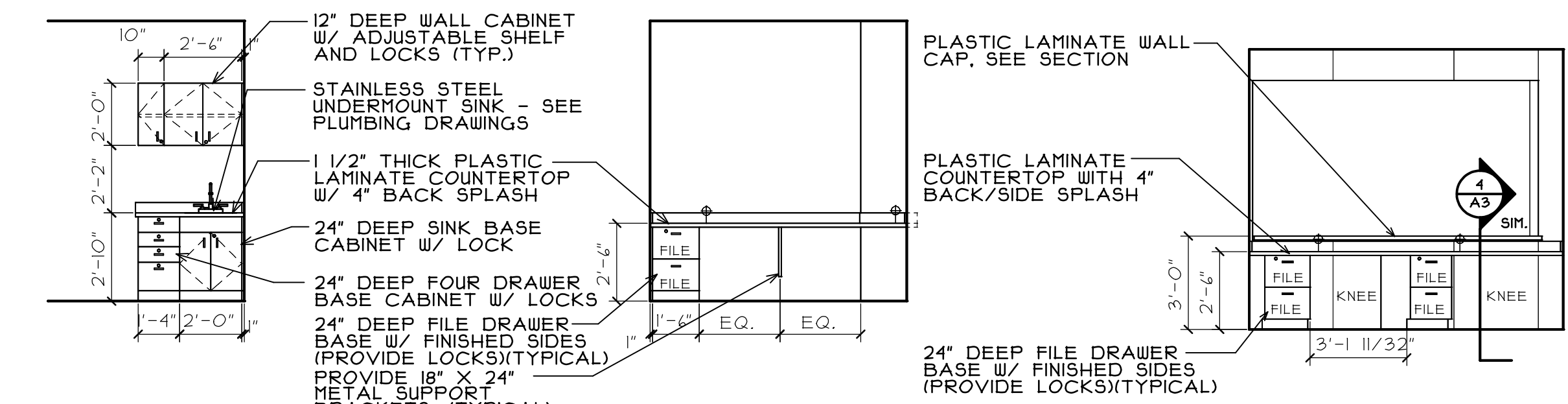
EX EXISTING
 CPT- (1-3) CARPET TILE
 VCT- (1-2) VINYL COMPOSITE TILE
 LVT LUXURY VINYL TILE
 PNT-EGG PAINT, EGGSHELL FINISH
 APC-1 15/16" SUSPENSION GRID
 APC-2 3/4" MINERAL FIBER PANELS
 EXISTING SUSPENSION GRID
 3/4" MINERAL FIBER PANELS

SCHEDULE REMARKS

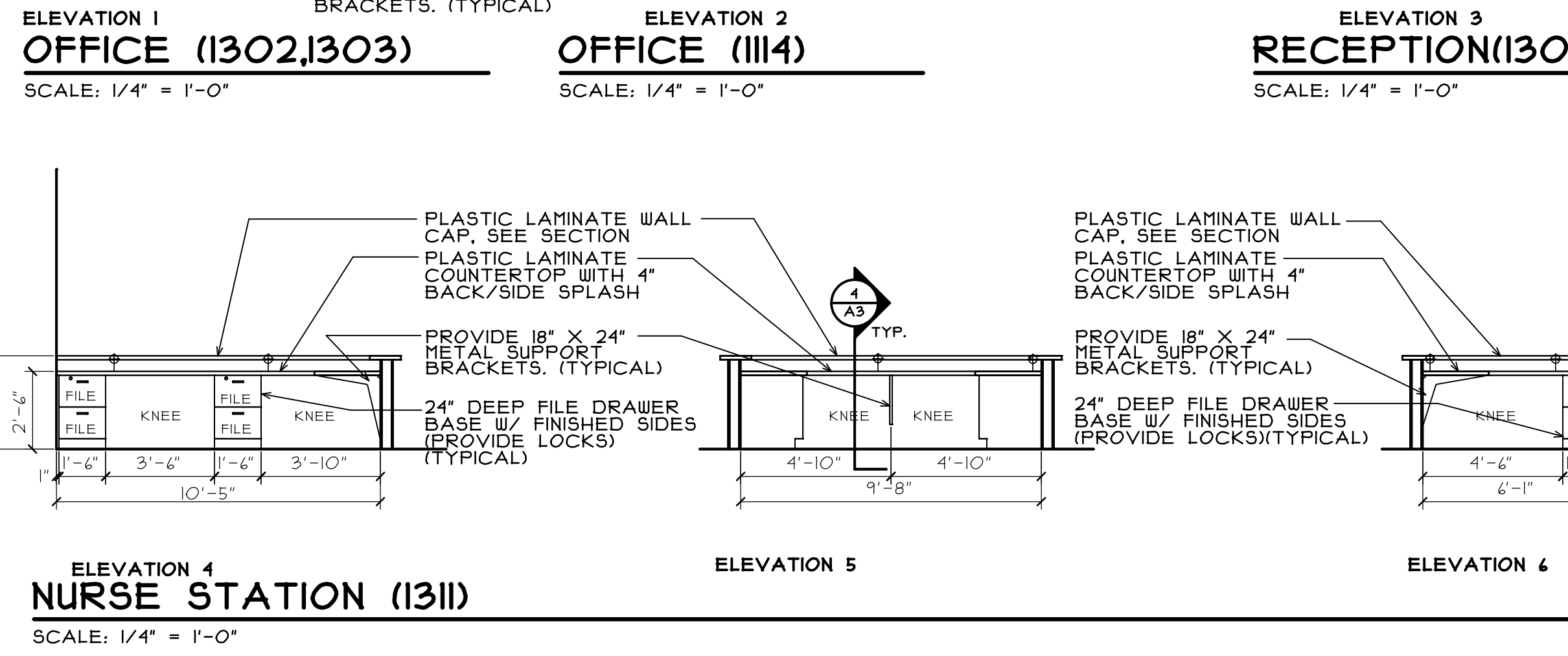
- PATCH IN EXISTING CEILING BACK TO NEW WALLS WITH SALVAGED CEILING PANELS AND GRID PIECES.
- NEW PARTITION WALL TO RECEIVE NEW PAINT AND WALL BASE TO MATCH EXISTING
- PATCH IN NEW MATCHING WALL BASE AT LOCATION OF WALL INFILL.

GENERAL FINISH NOTES

- A. ALL HOLLOW METAL DOORS AND FRAMES WITH IN WORK AREAS (INSIDE AND OUTSIDE) TO RECEIVE SEMI-GLOSS PAINT FINISH PER SPEC SECTION 091100.



GENERAL CASEWORK NOTES:
 ALL CABINET CONSTRUCTION AS PER STANDARDS SET BY SPECIFICATIONS.
 PROVIDE 1" COUNTERTOP OVERHANG AT SIDES OF BASE CABINETS.
 PROVIDE 1" RADIUS ON ALL SOLID SURFACE COUNTERTOP CORNERS.
 PROVIDE 1" SCRIBES AT SIDES OF ALL BASE AND WALL CABINETS TO ADJOINING WALL SURFACE. (U.N.O.)
 PROVIDE FULL LAMINATE RETURNS AT EXPOSED CABINET SIDES.
 ♠ DENOTES LOCATION OF CORD PASSAGE WITH FINISHED PLASTIC GROMMET. (COORDINATE EXACT LOCATIONS IN FIELD).



DOOR AND FRAME SCHEDULE

MARK	LOCATION	SIZE	DOOR			FRAME			GLASS TYPE	LABEL	HARDWARE SET	DETAILS			REMARKS	MARK
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH				HEAD	JAMB	SILL		
1114A	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS2	1/A3	2/A3	-	1	1114A
1114B	OFFICE	2'-10" X 4'-0" OPENING	-	-	-	N	HMTL	PAINT	G2	-	-	3/A3	3/A3 SIM	3/A3 SIM	-	1114B
1117	EXISTING DRUG STORAGE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS5	1/A3	2/A3	-	-	1117
1215	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS2	1/A3	2/A3	-	-	1215
1300	WAITING ROOM	3'-0" X 4'-8" X 1 3/4"	B	WOOD	PREFIN	M	HMTL	PAINT	G1	-	HS1	1/A3	2/A3	-	-	1300
1302	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1302
1302A	STORAGE	3'-0" X 4'-8" X 1 3/4"	-	EXISTING	-	-	EXISTING	PAINT	-	-	HS4	1/A3	2/A3	-	REUSE D113	1302A
1303	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1303
1304	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1304
1305	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1305
1306	HALLWAY	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS6	1/A3	2/A3	-	-	1306
1307	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1307
1308	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1308
1310	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1310
1311	OFFICE	3'-0" X 4'-8" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	-	1311

SCHEDULE ABBREVIATIONS

HMTL HOLLOW METAL
 PREFIN PREFINISHED
 ALUM ALUMINUM SEE ALUMINUM SCHEDULE
 ANOD ANODIZED
 TBD TO BE DETERMINED

GENERAL NOTES

- A. ALL WOOD DOORS TO BE FACTORY PREFINISHED PER SPECIFICATION 081116.
 B. ALL HOLLOW METAL DOORS AND FRAMES TO BE FIELD PAINTED PER SPECIFICATION 091100.
 C. PROVIDE WALL STOP FOR DOORS THAT OPEN 90 DEGREES, AND FLOOR STOP FOR DOORS THAT OPEN MORE THAN 90 DEGREES.

HARDWARE SETS

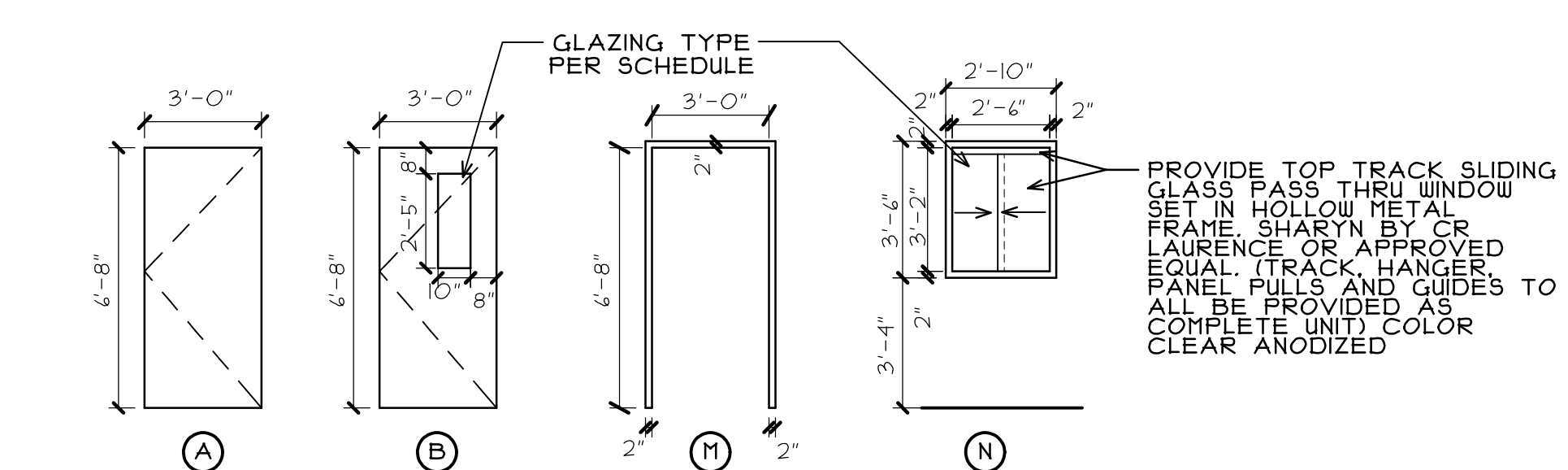
- HS1: 3 HINGES - HAGER BB1168-4.5X4.5 US24D. BATTERY POWERED DOOR LOCK SET (F.B.O.)
 1 DOOR CLOSER - LCN 4040XP-REGARM 689.
 1 WALL STOP - IVES W540CCV / US24D.
 3 DOOR SILENCERS - IVES SR64 GREY.
- HS2: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
 1 CYLINDRICAL OFFICE LOCK - SCHLAGE ND50PD-ATH 426.
 1 WALL STOP - IVES W540CCV.
 3 DOOR SILENCERS - IVES SR64 GREY.
- HS3: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
 1 CYLINDRICAL OFFICE LOCK - SCHLAGE ND50PD-OME 426.
 1 WALL STOP - IVES W540CCV.
 1 ACoustic SEAL SET - FEIKO ADHESIVE GASKETING AT HEAD AND JAMBS 844X2. SURFACE MOUNTED AUTOMATIC DOOR BOTTOM, 4301_RL.
- HS4: HINGES - EXISTING
 1 CYLINDRICAL STOREROOM LOCK - SCHLAGE ND80PD-ATH 426.
 1 WALL - IVES W540CCV.
 DOOR SILENCERS - EXISTING.
- HS5: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
 1 CYLINDRICAL STOREROOM LOCK - SCHLAGE ND80PD-OME 426.
 1 DOOR CLOSER - LCN 4040XP-REGARM 689.
 1 WALL / FLOOR STOP - IVES W540CCV / FS441 US24D.
 3 DOOR SILENCERS - IVES SR64 GREY.
- HS6: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
 BATTERY POWERED LOCK - REUSE EXISTING
 1 DOOR CLOSER - LCN 4040XP-REGARM 689.
 1 WALL / FLOOR STOP - IVES W540CCV / FS441 US24D.
 3 DOOR SILENCERS - IVES SR64 GREY.

REMARKS NOTES

- I. PROVIDE 1/2" CLEAR UNDERCUT ON NEW WOOD DOOR.

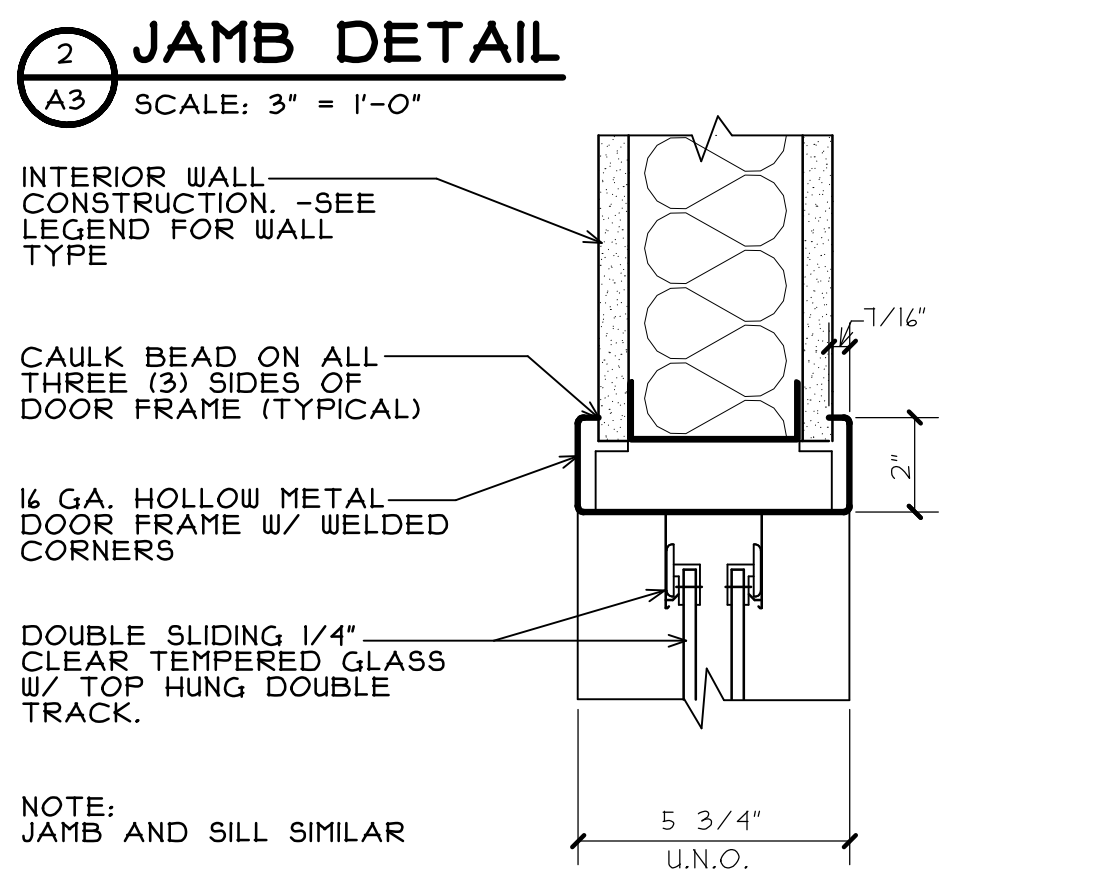
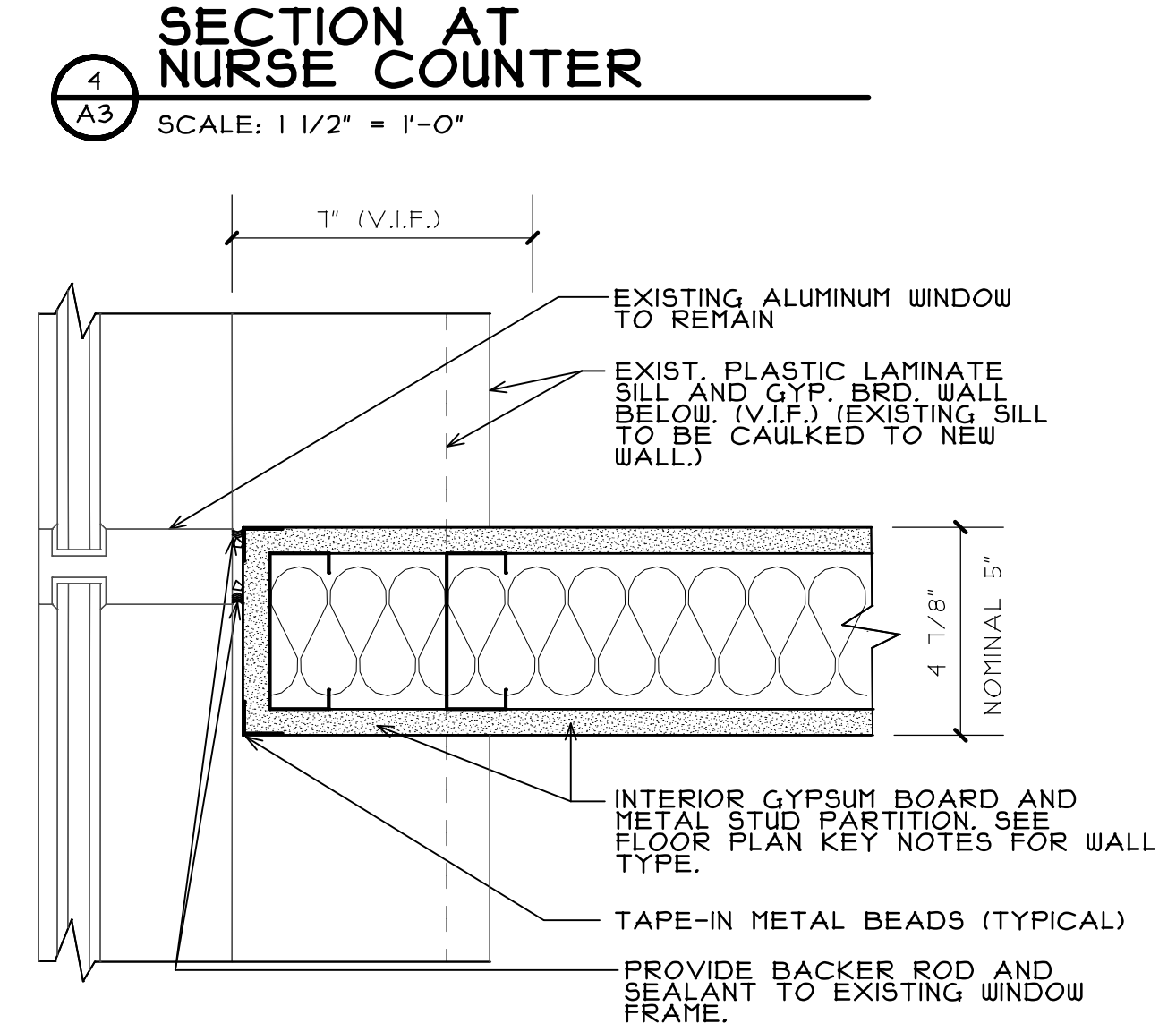
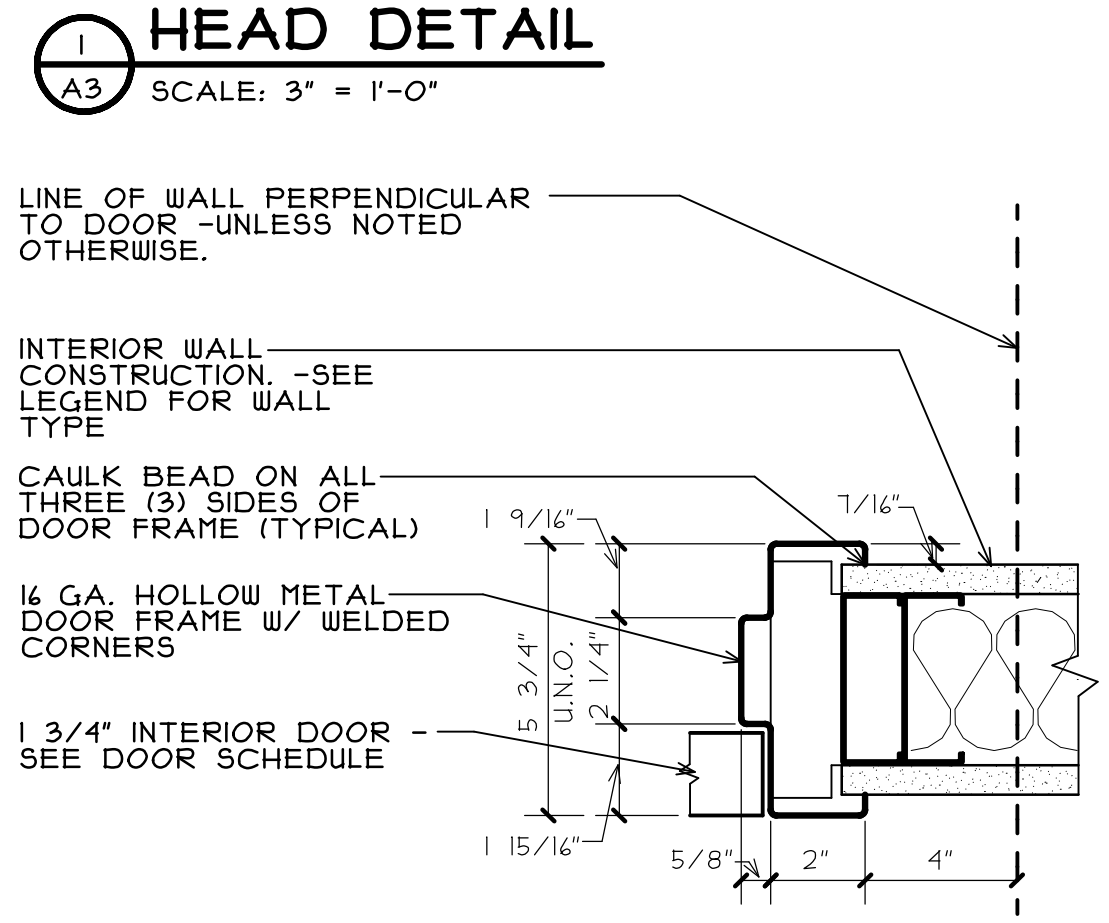
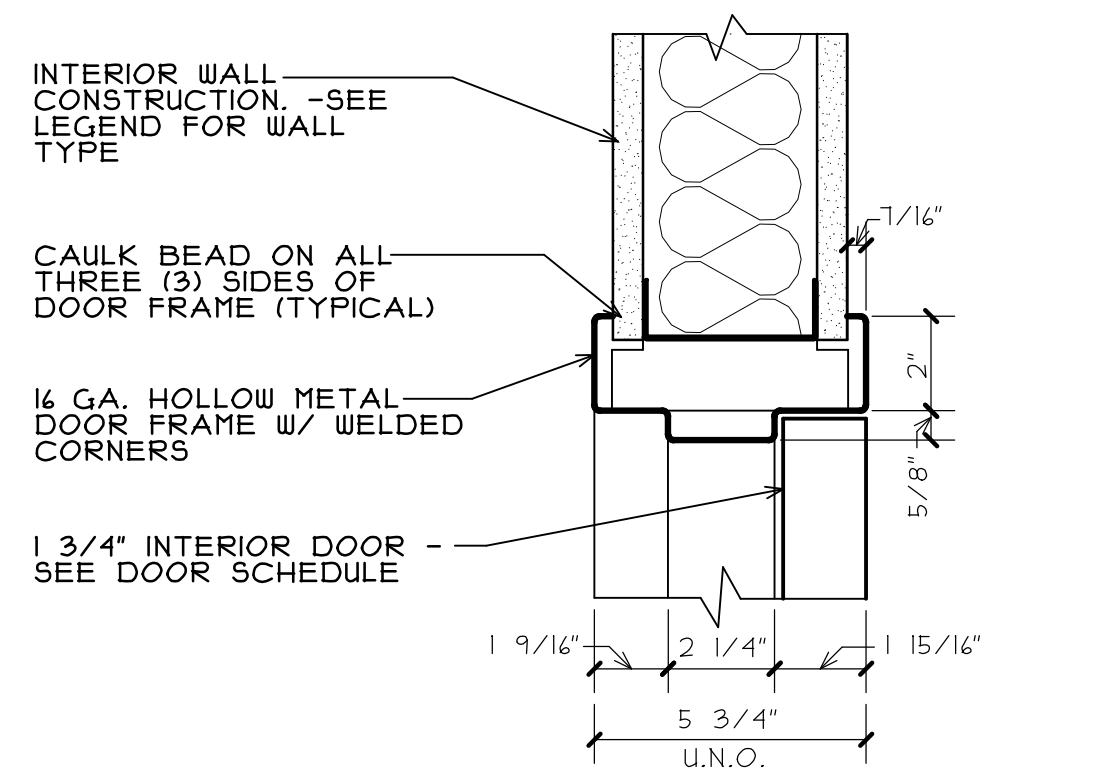
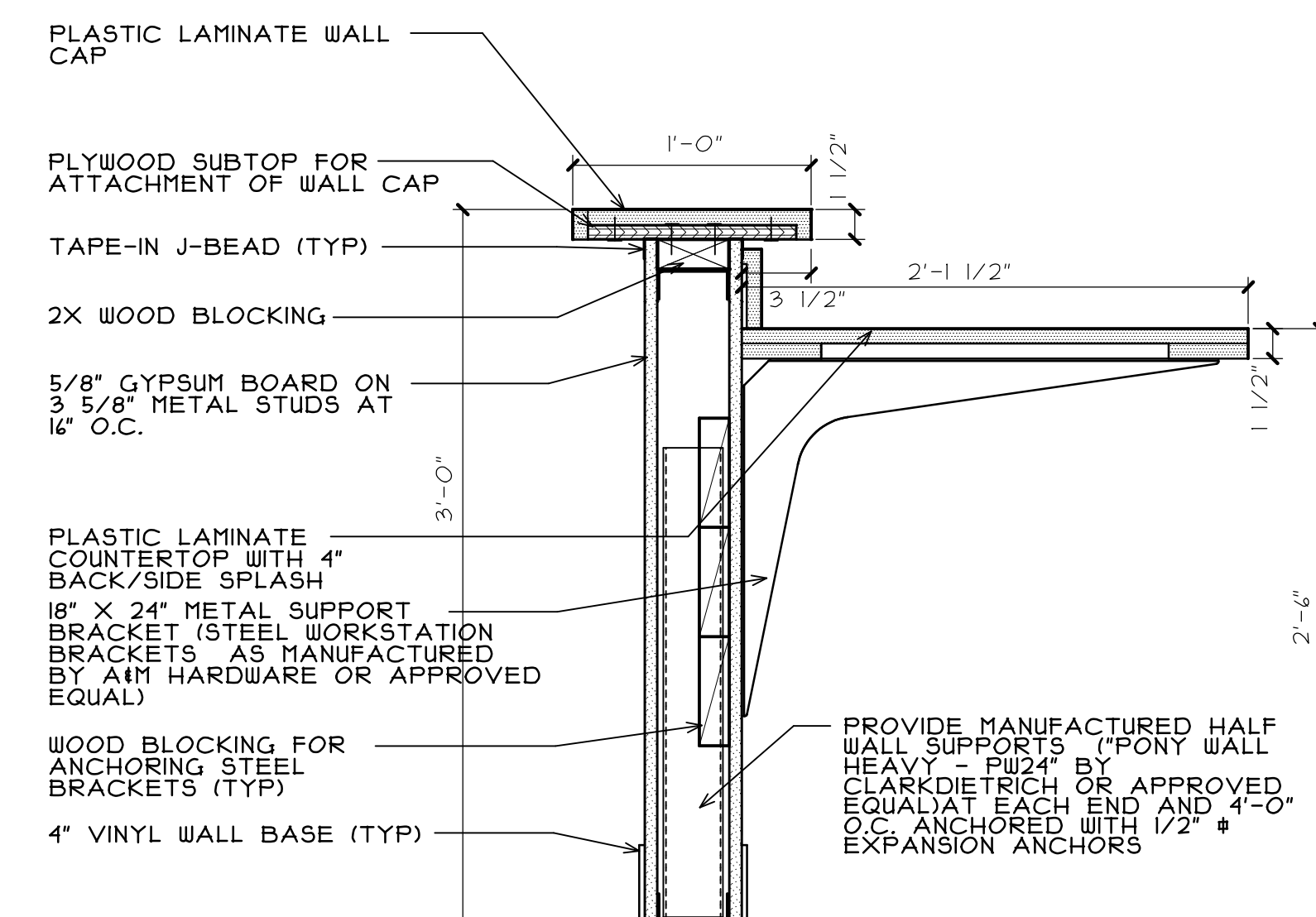
GLASS TYPES

G1 1/4" CLEAR TEMPERED GLASS
 G2 1/4" CLEAR FROSTED TEMPERED GLASS



DOOR AND FRAME TYPES

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



REGISTRATION

SEAL

stromsland + de young + prybys

ARCHITECTURE GROUP

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NUMBER

SET

BEHAVIORAL HEALTH SUITE

WILL COUNTY COMMUNITY HEALTH CENTER

1106 NEAL AVENUE

JOLIET, ILLINOIS

DATE: 7/21/2022

REVISED:

PROJECT NO. 2202-02

SHEET NUMBER

A3

OF 6 SHEETS

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\\192.168.1137\CURRENT PROJECTS\WC CHC - BEHAVIORAL HEALTH SUITE\DRAWINGS\ARCH\220202 A3.AEC

ARCHITECTURAL SPECIFICATIONS

SECTION 012300 - ALTERNATES

1.1 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

1.2 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: Ceiling mounted sound masking system
1. Alternate: Provide an alternate cost for contractor to provide and install a 14 min. speaker sound masking system. System to be a complete package.

SECTION 013300 - SUBMITTAL PROCEDURES

1.1 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.
1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
 2. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
 3. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Architect's final release or approval.
 - g. Scheduled date of fabrication.
 - h. Scheduled dates for purchasing.
 - i. Scheduled dates for installation.

1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
 4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.
- D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
 - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).

3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to the Architect, containing the following information:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name of Contractor.
 - e. Name of firm or entity that prepared submittal.
 - f. Names of subcontractor, manufacturer, and supplier.
 - g. Category and type of submittal.
 - h. Submittal purpose and description.
 - i. Specification Section number and title.
 - j. Drawing number and detail references, as appropriate.
 - k. Location(s) where product is to be installed, as appropriate.
 - l. Related physical samples submitted directly.
 - m. Indication of full or partial submittal.
 - n. Submittal and transmittal distribution record.
 - o. Other necessary identification.
 - p. Remarks.

- E. Options: Identify options requiring selection by Architect.
- F. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- G. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.3 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
1. Submit electronic submittals via email as PDF electronic files.
 - a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 2. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams showing factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.
 - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 5. Submit Product Data before or concurrent with Samples.
 6. Submit Product Data in the following format:
 - a. PDF electronic file.
 - b. One paper copy of Product Data unless otherwise indicated. Architect will not return copies.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 24 by 36 inches.
 3. Submit Shop Drawings in the following format:
 - a. PDF electronic file.
 - b. One opaque (bond) copies of each submittal. Architect will not return copies.

- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 - e. Specification paragraph number and generic name of each item.
3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
 - a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.

- E. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- F. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- G. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- H. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- I. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

1.4 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and two paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

1.5 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

1.6 ARCHITECT'S ACTION

- A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

SECTION 016000 - PRODUCT REQUIREMENTS

1.1 ACTION SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
1. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
 - a. Form of Approval: As specified in Section 013300 "Submittal Procedures."
 - b. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.
 2. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 013300 "Submittal Procedures." Show compliance with requirements.

1.2 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
 4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

- C. Storage:
1. Store products to allow for inspection and measurement of quantity or counting of units.
 2. Store materials in a manner that will not endanger Project structure.
 3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
 4. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
 5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
 6. Protect stored products from damage and liquids from freezing.

1.4 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
3. Refer to other Sections for specific content requirements and particular requirements for submitting special warranties.

1.5 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 4. Where products are accompanied by the term "as selected," Architect will make selection.
 5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
- B. Product Selection Procedures:
1. Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
 2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
 3. Products:
 - a. Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
 - b. Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product.
 4. Manufacturers:
 - a. Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
 - b. Nonrestricted List: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed manufacturer's product.
 5. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.

- C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

- C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

1. Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
3. Evidence that proposed product provides specified warranty.
4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
5. Samples, if requested.

1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
 3. Refer to other Sections for specific content requirements and particular requirements for submitting special warranties.

REGISTRATION

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BEHAVIORAL HEALTH SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

DATE: 7/21/2022
REVISED:

PROJECT NO.
2202-02

SHEET NUMBER

A4

OF 6 SHEETS

ARCHITECTURAL SPECIFICATIONS

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

- 1.1 MISCELLANEOUS LUMBER
- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
- Blocking.
 - Nailers.
- B. For items of dimension lumber size, provide Construction or No. 2 grade lumber of any species.
- 1.2 FASTENERS
- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
- B. Power-Driven Fasteners: NES NER-272.
- C. Screws for Fastening to Metal Framing: ASTM C 1002, length as recommended by screw manufacturer for material being fastened.

SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

- 1.1 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of cabinets indicated for construction, finishes, installation, and other requirements.
- The Contract Documents contain requirements that are more stringent than the referenced quality standard. Comply with requirements of Contract Documents in addition to those of the referenced quality standard.
- B. Grade: Custom.
- C. Type of Construction: Frameless.
- D. Door and Drawer-Front Style: Flush overlay.
- E. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by quality standard.
- F. Laminate Cladding for Exposed Surfaces:
- Horizontal Surfaces: Grade HGL.
 - Vertical Surfaces: Grade VGS.
 - Door and Drawer Edges: PVC edge banding, 0.12 inch (3mm) thick, matching laminate in color, pattern, and finish.
 - Pattern Direction: Vertically for drawer fronts, doors, and fixed panels.
- G. Materials for Semiexposed Surfaces:
- Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
 - Edges of Thermoset Decorative Panel Shelves: PVC or polyester edge banding.
 - Door and Drawer Backs: High-pressure decorative laminate, NEMA LD 3, Grade VGS, color and pattern to match exposed surface.
 - Drawer Sides and Backs: Thermoset decorative panels with PVC or polyester edge banding.
 - Drawer Bottoms: Thermoset decorative panels.
- H. Concealed Backs of Panels with Exposed Plastic-Laminate Surfaces: High-pressure decorative laminate, NEMA LD 3, Grade BKL.
- I. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.
- Join subfronts, backs, and sides with glued rabbeted joints supplemented by mechanical fasteners.
- J. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
- Match existing pattern and color.
- 1.2 CABINET HARDWARE AND ACCESSORIES
- A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets.
- B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 120 degrees of opening.
- C. Wire Pulls: Back mounted, solid metal, 4 inches long, 5/16 inch in diameter.
- D. Shelf Rests: BHMA A156.9, B04013; metal.
- E. Drawer Slides: ANSI/BHMA A156.9.
- Grade 1HD-100 and Grade 1HD-200: Side mounted; full-extension type; zinc-plated-steel ball-bearing slides.
 - For drawers not more than 6 inches high and not more than 24 inches wide, provide Grade 1HD-100.
 - For drawers more than 6 inches high or more than 24 inches wide, provide Grade 1HD-200.
- F. Door Locks: ANSI/BHMA A156.11, E07121.
- G. Drawer Locks: ANSI/BHMA A156.11, E07041.
- H. Door and Drawer Silencers: BHMA A156.16, L03011.
- I. Metal Support Brackets: "Steel Work Station Brackets" as manufactured by A&M Hardware Inc. Size as indicated in Drawings. Color to be as selected from all colors offered.
- J. Grommets for Cable Passage: 2-inch OD, molded-plastic grommets and matching plastic caps with slot for wire passage.
- Color: Provide a minimum of five colors for selection by Architect.
- K. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
- Match existing.

SECTION 079200 - JOINT SEALANTS

- 1.1 MATERIALS, GENERAL
- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- C. Colors of Exposed Joint Sealants: As indicated by manufacturer's designations.
- 1.2 LATEX JOINT SEALANTS
- A. Latex Joint Sealant LJS-1: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.
- Products: Subject to compliance with requirements, provide one of the following:
 - BASF Building Systems; Sonolac.
 - Bostik, Inc.; Chem-Calk 600.
 - Pecora Corporation; AC-20+.
 - Tremco Incorporated; Tremflex 834.
- 1.3 SILICONE JOINT SEALANTS
- A. Mildew-Resistant, Single-Component, Acid-Curing Silicone Joint Sealant SJS-1: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.
- Products: Subject to compliance with requirements, provide one of the following:
 - Dow Corning Corporation; 786 Mildew Resistant.
 - GE Advanced Materials - Silicones; Sanitary SCS1700.
 - Tremco Incorporated; Tremsil 200 Sanitary.
 - Sika Corporation, Building Materials; Sikasil,SG-10.
- 1.4 ACOUSTICAL JOINT SEALANTS
- A. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex acoustical sealant complying with ASTM C834.
- Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - GE Construction Sealants; Momenive Performance Materials Inc., RSC20
 - Hilti, Inc; CP506.
 - USG Corporation; Acoustical Sealant.
 - Pecora Corporation; AIS-919.
- 1.5 JOINT SEALANT BACKING
- A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, any types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.
- 1.6 MISCELLANEOUS MATERIALS
- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.
- 1.7 JOINT-SEALANT SCHEDULE
- A. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces.
- Joint Locations:
 - Vertical joints on exposed surfaces of walls and partitions.
 - Perimeter joints between interior wall surfaces and frames of interior doors and windows.
 - Perimeter joints between interior wall surfaces and specialty items.
 - Perimeter joints between interior wall surfaces and casework and countertops.
 - Other joints as indicated.
 - Joint Sealant: Latex LJS-1.
 - Joint-Sealant Color: Manufacturer's standard white for field painting.
- B. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces.
- Joint Sealant Location:
 - Joints between plumbing fixtures and adjoining walls, floors, and counters.
 - Other joints as indicated.
 - Joint Sealant: Silicone SJS-1.
 - Joint-Sealant Color: Manufacturer's standard clear color.
- C. Joint-Sealant Application: Acoustical wall sealant interior joints in vertical surfaces nontraffic surfaces
- Joint Sealant Location:
 - Joints at bottom of new Type A walls.
 - Penetrations in new Type A walls.
 - Joint Sealant: Acoustic Sealant AJS-1.

SECTION 081213 - HOLLOW METAL FRAMES

- 1.8 MANUFACTURERS
- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- Ceco Door; AADG, Inc.; ASSA ABLOY.
 - Curries, AADG, Inc.; ASSA ABLOY Group.
 - JR Metal Frames, Inc.
 - Steelcraft; Allegion plc.
- 1.9 STANDARD STEEL FRAMES
- A. Construct hollow-metal frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
- B. Interior Frames: SDI A250.8..
- Materials: Uncoated steel sheet, minimum thickness of 0.053 inch.
 - Construction: Face welded.
 - Exposed Finish: Prime.
- 1.10 BORROWED LITES
- A. Fabricate of uncoated steel sheet, minimum thickness of 0.053 inch.
- B. Construction: Face welded.
- C. Fabricate in one piece except where handling and shipping limitations require multiple sections. Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of metal of same or greater thickness as metal as frames.
- D. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
- 1.11 FRAME ANCHORS
- A. Jamb Anchors:
- Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.
 - Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor. Provide one additional anchor for each 24 inches of frame height above 7 feet.
 - Postinstalled Expansion Anchor: Minimum 3/8-inch-diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.
- B. Material: ASTM A879/A879M, Commercial Steel (CS), 04Z coating designation; mill phosphatized.
- For anchors built into exterior walls, steel sheet complying with ASTM A1008/A1008M or ASTM A1011/A1011M; hot-dip galvanized according to ASTM A153/A153M, Class B.
- 1.12 MATERIALS
- A. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A1011/A1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- C. Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153/A153M.
- E. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.
- F. Glazing: See drawings.

SECTION 081416 - FLUSH WOOD DOORS

- 1.1 WARRANTY
- A. Special Warranty: Manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
- Failures include, but are not limited to, the following:
 - Delamination of veneer.
 - Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.
 - Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.
 - Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.
 - Warranty Period for Hollow-Core Interior Doors: Two year(s) from date of Substantial Completion.
- 1.2 MANUFACTURERS
- A. Source Limitations: Obtain flush wood doors from single manufacturer.
- 1.3 FLUSH WOOD DOORS, GENERAL
- A. Quality Standard: In addition to requirements specified, comply with AWI/AWMAC/WT's "Architectural Woodwork Standards."
- Provide labels and certificates from AWI certification program indicating that doors comply with requirements of grades specified.
 - The Contract Documents contain requirements that are more stringent than the referenced quality standard. Comply with the Contract Documents in addition to those of the referenced quality standard.

- 1.4 SOLID-CORE FIVE-PLY FLUSH WOOD VENEER-FACED DOORS FOR TRANSPARENT FINISH
- A. Interior Doors (at locations indicated):
- Architectural Woodwork Standards Grade: Custom.
 - Faces: Single-ply wood veneer not less than 1/50 inch thick.
 - Species: African Mahogany, Color and finish to match existing.
 - Cut: Quarter sliced.
 - Match between Veneer Leaves: Book match.
 - Assembly of Veneer Leaves on Door Faces: Center-balance match.
 - Pair and Set Match: Provide for doors hung in same opening.
 - Exposed Vertical and Top Edges: Same species as faces or a compatible species - Architectural Woodwork Standards edge Type A.
 - Core for Non-Fire-Rated Doors:
 - ANSI A208.1, Grade LD-1 or Grade LD-2 particleboard, made with binder containing no urea-formaldehyde.
 - Blocking: Provide wood blocking in particleboard-core doors as needed to eliminate through-bolting hardware.
 - Construction: Five plies, hot-pressed bonded (vertical and horizontal edging is bonded to core), with entire unit abrasive planed before veneering.
- 1.5 LIGHT FRAMES
- A. Wood Beads for Light Openings in Wood Doors: Provide manufacturer's standard wood beads unless otherwise indicated.
- Wood Species: Species compatible with door faces.
 - Profile: Flush rectangular beads with radiused corner.
- SECTION 092216 - NON-STRUCTURAL METAL FRAMING
- 1.1 PERFORMANCE REQUIREMENTS
- A. Horizontal Deflection: For wall assemblies, limited to 1/360 of the wall height based on horizontal loading of 5 lb/sq. ft.
- 1.2 FRAMING SYSTEMS
- A. Steel Studs and Tracks: ASTM C645. Use either conventional steel studs and tracks or embossed, high-strength steel studs and tracks of equivalent minimum base-metal thickness.
- Minimum Base-Metal Thickness: 0.0329 inch.
 - Depth: As indicated on Drawings.
- B. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
- Minimum Base-Metal Thickness: 0.0329 inch.
- C. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
- 1.3 INSTALLATION, GENERAL
- A. Installation Standard: ASTM C 754.
- Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
- B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
- C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
- Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
 - Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
- E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

\\192.168.137\CURRENT PROJECTS\WC CHC - BEHAVIORAL HEALTH SUITE\DRAWINGS\ARCH\220202 A5.AEC

REGISTRATION

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NUMBER
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BEHAVIORAL HEALTH SUITE
WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

DATE: 7/21/2022
REVISED:

PROJECT NO.
2202-02

SHEET NUMBER

A5

OF 6 SHEETS

ARCHITECTURAL SPECIFICATIONS

SECTION 092900 - GYPSUM BOARD

- 1.1 INTERIOR GYPSUM BOARD
- A. Gypsum Board, Type X: ASTM C 1396/C 1396M.
- Thickness: 5/8 inch.
 - Long Edges: Tapered.
- 1.2 TRIM ACCESSORIES
- A. Interior Trim: ASTM C 1047.
- Material: Galvanized or aluminum-coated steel sheet or rolled zinc or paper-faced galvanized-steel sheet.
 - Shapes:
 - Cornerbead.
 - Expansion (Control) Joint.
- 1.3 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.
- B. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
- Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
- C. Sound-Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
- 1.4 APPLYING INTERIOR GYPSUM BOARD
- A. Install interior gypsum board in the following locations:
- Type X: Vertical and horizontal surfaces unless otherwise indicated.
 - Mold-Resistant Type: Area behind sinks unless otherwise indicated.
- 1.5 FINISHING GYPSUM BOARD
- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
- Level 2: Ceiling plenum areas, concealed areas, and where indicated.
 - Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.

SECTION 095113 - ACOUSTICAL PANEL CEILINGS

- 1.1 MANUFACTURERS
- A. Source Limitations: Obtain each type of acoustical ceiling panel and its supporting suspension system from single source from single manufacturer.
- 1.2 PERFORMANCE REQUIREMENTS
- A. Seismic Performance: Suspended ceilings shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
- B. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- Flame-Spread Index: Class A according to ASTM E1264.
 - Smoke-Developed Index: 50 or less.
- 1.3 ACOUSTICAL PANELS
- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- Armstrong Ceiling & Wall Solutions.
 - Certaainted; SAINT-GOBAIN.
 - USG Corporation.
- B. Acoustical Panel Standard: Provide manufacturer's standard panels according to ASTM E1264 and designated by type, form, pattern, acoustical rating, and light reflectance unless otherwise indicated.
- C. Classification: Provide panels as follows:
- Type and Form: Type III, mineral base with painted finish; Form 2, water felted.
 - Pattern: CD (perforated, small holes and fissured).
- D. Color: White.
- E. Edge/Joint Detail: Square.
- F. Thickness: 3/4 inch.
- G. Modular Size: 24 by 24 inches.
- 1.4 METAL SUSPENSION SYSTEM
- A. Metal Suspension-System Standard: Provide manufacturer's standard, direct-hung, metal suspension system and accessories according to ASTM C635/C635M and designated by type, structural classification, and finish indicated.
- B. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; pre-painted, electrolytically zinc coated, or hot-dip galvanized, G30 coating designation; with prefinished 15/16-inch-wide metal caps on flanges.
- Structural Classification: Intermediate-duty system.
 - End Condition of Cross Runners: butt-edge type.
 - Face Design: Flat, flush.
 - Cap Material: Cold-rolled steel.
 - Cap Finish: Painted white.
- 1.5 ACCESSORIES
- A. Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
- B. Wire Hangers, Braces, and Ties: Provide wires as follows:
- Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.
 - Size: Wire diameter sufficient for its stress at three times hanger design load (ASTM C635/C635M, Table 1, "Direct Hung") will be less than yield stress of wire, but not less than 0.106-inch-diameter wire.
- C. Seismic Clips: Manufacturer's standard seismic clips designed to secure acoustical panels in place during a seismic event.
- D. Seismic Stabilizer Bars: Manufacturer's standard perimeter stabilizers designed to accommodate seismic forces.
- 1.6 METAL EDGE MOLDINGS AND TRIM
- A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
- Edge moldings shall fit acoustical panel edge details and suspension systems indicated and match width and configuration of exposed runners unless otherwise indicated.
 - For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

- 1.1 VINYL BASE
- A. Building Standard Product: Subject to compliance with requirements, provide the following:
- Coordinate with owner for building standard product and color.
- B. Minimum Thickness: 0.375 inch.
- C. Height: 4 inches.
- D. Lengths: Cut lengths 48 inches long.
- E. Outside Corners: Job formed.
- F. Inside Corners: Job formed.

1.2 INSTALLATION MATERIALS

- A. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

SECTION 096519 - RESILIENT TILE FLOORING

1.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For resilient tile flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

- Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.2 VINYL COMPOSITION FLOOR TILE

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- Armstrong Flooring, Inc.
 - Johnsonite; a Tarkett company.
- B. Tile Standard: ASTM F1066, Class 2, through pattern.
- C. Thickness: 0.125 inch.
- D. Wearing Surface: Smooth.
- E. Size: 12 by 12 inches.
- F. Colors and Patterns: Match existing final selection to be made by owner.

1.3 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.

SECTION 099123 - INTERIOR PAINTING

1.1 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Material Compatibility:

- Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
- For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

- C. Colors: Match existing. Coordinate with owner for building standard paint and color.

1.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
- After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
- Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

1.3 INTERIOR PAINTING SCHEDULE

- A. Steel Substrates: Door frames and window frames.
- Water-Based Light Industrial Coating System MPI INT 5.1B:
 - Prime Coat: Primer, rust-inhibitive, water based, Low-odor/VOC, MPI #107.E3.
 - Intermediate Coat: Light industrial coating, interior, water based, Low-odor/VOC, matching topcoat.
 - Topcoat: Light industrial coating, interior, water based, semi-gloss, Low-odor/VOC (MPI Gloss Level 5), MPI #153, E3.

- B. Gypsum Board Substrates: Including walls, headers, ceilings, etc.

- Latex over Latex Sealer System MPI INT 9.2A:
 - Prime Coat: Primer sealer, latex, interior, low-odor/VOC MPI #50.E3 (not required at existing surfaces with prior paint finish).
 - Intermediate Coat: Latex, interior, low-odor/VOC, matching topcoat.
 - Topcoat: Latex, interior, low-odor/VOC, (MPI Gloss Level 3), MPI#52.E3.

SECTION 102600 - WALL AND DOOR PROTECTION

1.1 QUALITY ASSURANCE

- A. Surface-Burning Characteristics: Provide impact-resistant, plastic wall protection units with surface-burning characteristics as determined by testing identical products per ASTM E 84, NFPA 255, or UL 723 by UL or another qualified testing agency.

1.2 SHEET WALL COVERINGS

- A. Abuse-Resistant Sheet Wall Protection: Fabricated from rigid, plastic sheet wall-covering material.
- Products: Provide the following or approved equal:
 - "Acrovyn Solid Colors" as manufactured by Construction Specialties, Inc.
 - Size: 48 by 96 inches for sheet.
 - Sheet Thickness: 0.040 inch.
 - Pattern and Color: As selected by Owner from manufacturer's full range. Match existing
 - Height: Wainscot, Match existing.
 - Trim and Joint Moldings: Extruded rigid plastic that matches sheet wall covering color. Provide wainscot trim, inside and outside corner trim, and vertical divider bars between sheets (for walls longer than 8-feet only).
 - Mounting: Adhesive as recommended by impact-resistant plastic wall protection manufacturer.

1.3 CORNER GAURDS

- A. See drawings for types.

1.4 INSTALLATION

- A. Installation Quality: Install wall and door protection according to manufacturer's written instructions, level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
- B. Mounting Heights: Install wall and protection in locations and at mounting heights indicated on Drawings.
- C. Accessories: Provide splices, mounting hardware, anchors, trim, joint moldings, and other accessories required for a complete installation.
- Provide anchoring devices and suitable locations to withstand imposed loads.
 - Where splices occur in horizontal runs of more than 20 feet (6.1 m), splice aluminum retainers and plastic covers at different locations along the run, but no closer than 12 inches apart.

SECTION 123623.13 - PLASTIC-LAMINATE-CLAD COUNTERTOPS

1.1 PLASTIC-LAMINATE-CLAD COUNTERTOPS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of plastic-laminate-clad countertops indicated for construction, finishes, installation, and other requirements.
- The Contract Documents contain requirements that are more stringent than the referenced quality standard. Comply with requirements of Contract Documents in addition to those of the referenced quality standard.
- B. Grade: Custom.
- C. High-Pressure Decorative Laminate: NEMA LD 3, Grade HGL.
- D. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
- As selected by Architect from manufacturer's full range in the following categories:
 - Solid colors, matte finish.
 - Patterns, matte finish.
- E. Edge Treatment: Same as laminate cladding on horizontal surfaces.
- F. Core Material: Particleboard.
- G. Core Material at Sinks: Particleboard made with exterior glue.
- H. Core Thickness: 3/4 inch.
- Build up countertop thickness to 1-1/2 inches at front, back, and ends with additional layers of core material laminated to top.
- I. Backer Sheet: Provide plastic-laminate backer sheet, NEMA LD 3, Grade BKL, on underside of countertop substrate.

END OF SPECIFICATIONS

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JOLIET, ILLINOIS

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REVISED:

PROJECT NO.
2202-02

SHEET NUMBER

A6

OF 6 SHEETS

SYMBOL LIST	
●	CONCEALED TYPE SPRINKLER HEAD WITH WHITE COVER PLATE

FIRE PROTECTION SPECIFICATIONS

PART 1 - GENERAL

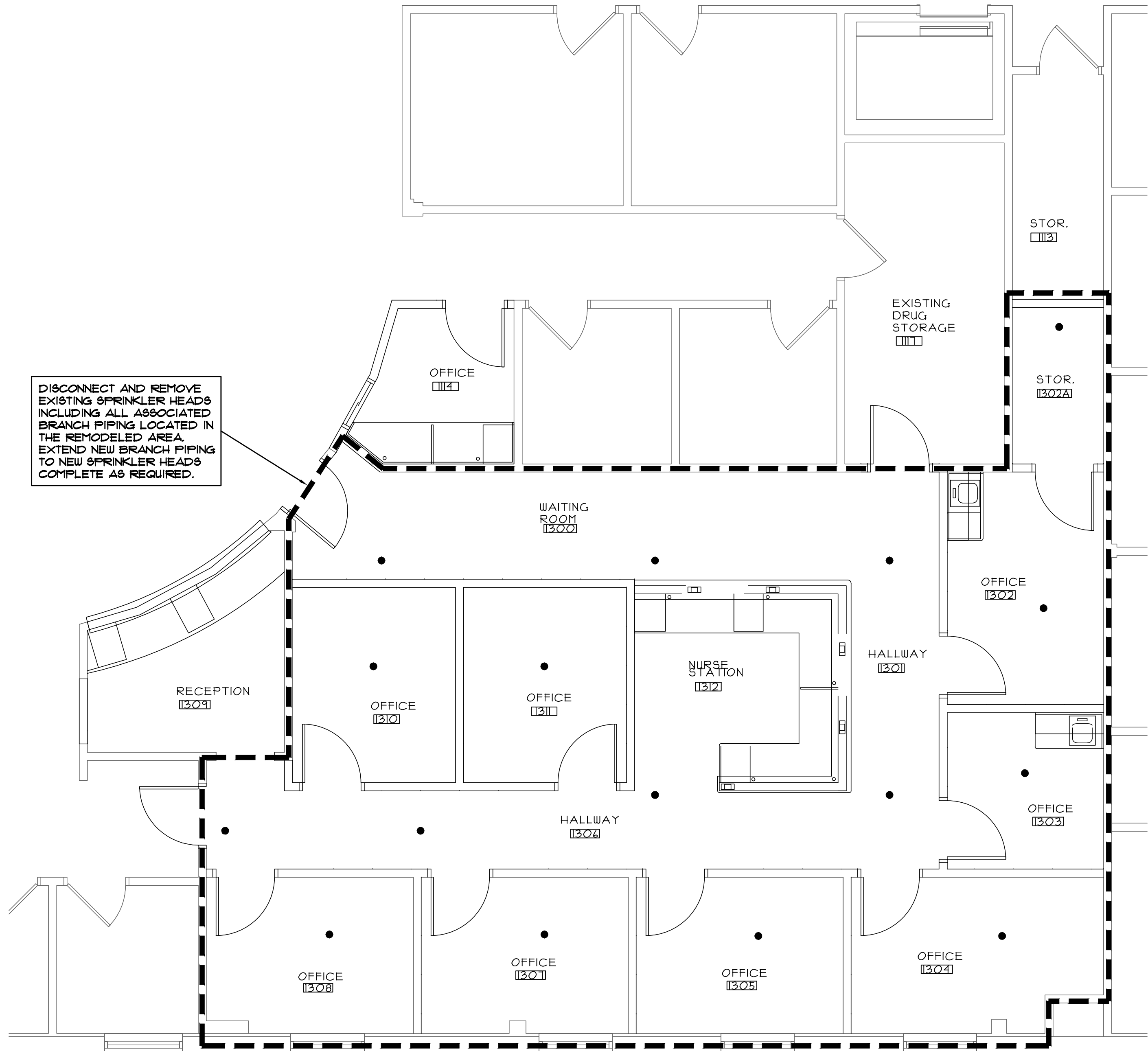
- 1.1 IT IS THE PURPOSE AND INTENT OF THIS SPECIFICATION THAT THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS AND AS HEREINAFTER SPECIFIED COMPLETE IN ALL DETAILS INCLUDING ALL PARTS AUXILIARY TO THE WORK.
- 1.2 THE DRAWINGS PERTAINING TO THE INSTALLATION INDICATE GENERALLY THE LOCATION OF ALL EQUIPMENT AND PIPING WITH DETAILS NECESSARY FOR THE COMPLETE INSTALLATION OF THE WORK. BIDDERS SHALL ACQUAINT THEMSELVES WITH WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE THE WORK READY FOR USE.
- 1.3 MODIFY EXISTING AUTOMATIC SPRINKLER SYSTEM IN THE RENOVATED AREAS, INCLUDING:
 - A. DEMOLITION OF EXISTING SPRINKLER HEADS AND BRANCH SPRINKLER PIPING SYSTEM.
 - B. SPRINKLER PIPING COMPLETE WITH VALVES, TAMPER SWITCHES, FLOW ALARM, OVERHEAD PIPING, PIPE SUPPORTS, PIPE SLEEVES AND SPRINKLER HEADS.
 - C. TESTING OF ALL PIPING WORK AND NECESSARY CLEANING OF THE FIRE PROTECTION WORK.
- 1.4 THE REMODELED AREA SHALL HAVE THE EXISTING SPRINKLER SYSTEM MODIFIED WITH NEW SPRINKLER HEADS DESIGNED TO DELIVER A DENSITY OF 1.0 GPM OVER THE MOST REMOTE 1500 SQFT. CALCULATIONS SHALL BE IN ACCORDANCE WITH THE LATEST NFPA 13 CHAPTER FOR LIGHT HAZARD.
- 1.5 **WORK NOT INCLUDED:**
 - A. CERTAIN ITEMS NOT INCLUDED IN THIS DIVISION ARE AS FOLLOWS:
 1. FINISH PAINTING WORK.
 2. ELECTRICAL WIRING FOR ALARM DEVICES BY ELECTRICAL CONTRACTOR.
- 1.6 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK COVERED BY THIS CONTRACT. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.
- 1.7 THE ACCOMPANYING DRAWINGS SHOW THE SCHEMATIC LAYOUT FOR SPRINKLER HEAD LOCATIONS.
- 1.8 ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, PAMPHLET #13 AND AUTHORITIES HAVING JURISDICTION.
- 1.9 ALL WORK SHALL ALSO BE DONE IN STRICT ACCORDANCE WITH ALL RULES, REGULATIONS, LAWS, AND ORDINANCES OF LOCAL, CITY, COUNTY, AND STATE AUTHORITIES.
- 1.10 PREPARE SHOP DRAWINGS OF THE AUTOMATIC SPRINKLER WORK SHOWING THE ARRANGEMENT OF ALL AUTOMATIC SPRINKLER PIPING SPACING OF SPRINKLER HEADS, SIZE AND ELEVATIONS OF LINES ALL DETAILS OF THE SPRINKLER SYSTEM, SECTIONS WHERE REQUIRED, LIGHT FIXTURES, HEATING AND AIR CONDITIONING DUCTS AND DIFFUSERS.
- 1.11 SUBMIT TO THE ARCHITECT FOR HIS REVIEW, ELECTRONIC PDF COPIES OF SHOP DRAWINGS, CATALOG CUTS AND DESCRIPTIVE MATTER REGARDING MATERIALS AND EQUIPMENT WHICH HE INTENDS TO FURNISH AND INSTALL.
- 1.12 SUBMIT SIX (6) SETS OF THE FINAL DETAILED WORKING DRAWINGS TO THE STATE FIRE INSURANCE SERVICE OFFICE WITH THE REQUEST TO RETURN FIVE (5) APPROVED COPIES. THEY SHALL RETAIN ONE (1) SET OF DRAWINGS FOR THEIR FILE.
- 1.13 SEND FIVE (5) COPIES OF THE CORRECTED CONSTRUCTION DRAWINGS WHICH HAVE BEEN EXAMINED AND APPROVED BY THE STATE ISO AND LOCAL FIRE CHIEF, TO THE ARCHITECT FOR HIS REVIEW.
- 1.14 DO NOT PROCEED WITH INSTALLATION OF THE WORK UNTIL THE ARCHITECT HAS REVIEWED HIS SHOP DRAWINGS.
- 1.15 COORDINATE WITH THE GENERAL CONSTRUCTION, PLUMBING, HEATING, AIR CONDITIONING, ELECTRICAL, AND REFRIGERATION WORK IN ORDER TO ELIMINATE THE POSSIBILITY OF INTERFERENCE OF THE FIRE PROTECTION WORK WITH OTHER WORK.
- 1.16 FILE A LETTER GUARANTEEING THE AUTOMATIC SPRINKLER WORK EXECUTED UNDER THIS CONTRACT AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.

PART 2 - PRODUCTS

- 2.1 MAKE CONNECTION TO EXISTING SPRINKLER MAINS.
- 2.2 SPRINKLER PIPING SHALL BE NEW, STANDARD WEIGHT MILD STEEL DESIGNED FOR 175 POUNDS WORKING PRESSURE, CONFORMING TO ASA B36-10 MANUFACTURED IN THE UNITED STATES. THE MANUFACTURER'S NAME AND BRANCH SHALL BE ON EACH LENGTH OF PIPE.
- 2.3 SPRINKLER FITTINGS SHALL BE NEW, 125 POUNDS CAST IRON, SCREWED, CONFORMING TO ASA B16.4 MANUFACTURED IN THE UNITED STATES AND SPECIFICALLY APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS.
- 2.4 MECHANICAL PIPE COUPLINGS USED IN THE ASSEMBLY OF THE OVERHEAD SPRINKLER PIPING SHALL BE VICTAULIC FIRELOK, HAVING MALLEABLE IRON BODY, TYPE H MOLDED SYNTHETIC GASKET, AND STEEL NUTS AND BOLTS. PIPE GROOVING FOR ASSEMBLY WITH THE COUPLING SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 2.5 ALL PIPING WILL BE INSTALLED IN A UNIFORM MANNER DIRECT AS POSSIBLE. HORIZONTAL PIPING SHALL BE RUN AT RIGHT ANGLES AND SHALL NOT RUN DIAGONALLY ACROSS ROOMS. ALL PIPING SHALL BE ARRANGED TO PITCH BACK TO THE RISER, PITCHED 1/4" IN 10'-0". THE PIPING SHALL BE ARRANGED WITH DRAIN FLUGS OR VALVES AND FLUGS, AS REQUIRED TO PROVIDE MEANS FOR DRAINAGE OF TRAPPED PIPING.
- 2.6 THE SPRINKLER MAIN AND BRANCH PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, USING ONLY APPROVED TYPE STEEL HANGERS, BRACKETS, ANCHORS, AND STUDS, OF SIZE AND NUMBER IN ACCORD WITH THE RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION. THE HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT, AFTER ERECTION OF THE PIPING.
- 2.7 THE SPRINKLER HEADS SHALL BE OF APPROVED STANDARD DESIGN WITH NOMINAL 1/2" DISCHARGE ORIFICE, UPRIGHT, PENDANT AND CONCEALED AS SHOWN ON THE DRAWINGS. SPRINKLER HEADS IN ALL AREAS WITH FINISHED CEILING SHALL BE RELIABLE MODEL G-4 "THE CONCEALER" CONCEALED SPRINKLER HEAD. ALL OTHER AREAS SHALL BE BRONZE. EXPOSED SPRINKLER IN ALL AREAS WITH LESS THAN 7'-0" HEADROOM SHALL BE INSTALLED CLOSE TO CEILING WITH SPRINKLER HEADS PENDANT.
- 2.8 SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) SPRINKLER CABINET (WALL MOUNTED UP 4'-0") (AS PER NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET NO. 13) WITH FOUR (4) ADDITIONAL HEADS (EACH) OF THE TYPES USED ON THE JOB, TOGETHER WITH NECESSARY WRENCHES TO MAKE EMERGENCY CHANGES OF ALL TYPES OF HEADS USED.

PART 3 - EXECUTION

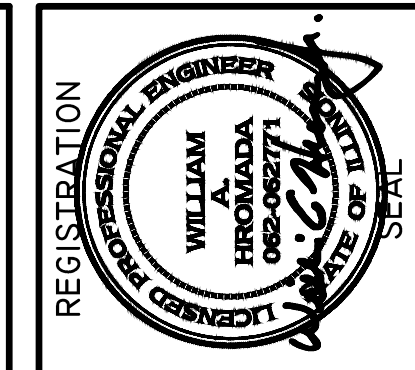
- 3.1 EMPLOY ON THE JOB AT ALL TIMES, A COMPETENT SUPERINTENDENT WHO SHALL BE RESPONSIBLE FOR THE PROGRESS AND EXECUTION OF THE WORK. WORKMANSHIP SHALL BE OF HIGH QUALITY CONFORMING TO STANDARD PRACTICE AS STIPULATED BY NFPA, ASTM, AND ASA RECOMMENDATIONS, BY SKILLED WORKMEN DURING THEIR REGULAR WORKING HOURS.
- 3.2 THE AUTOMATIC SPRINKLER PIPING SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE OF NOT LESS THAN 200 POUNDS, PSIG, FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
- 3.3 THE PIPING SUBJECTED TO THE HYDROSTATIC TEST SHALL BE FILLED WITH WATER AND THOROUGHLY CHECKED FOR THE ELIMINATION OF ALL AIR. ALL JOINTS SHALL BE PROVEN TIGHT OR ACCEPTABLE BY THE TESTS. DEFECTIVE WORK OR MATERIALS SHALL BE CORRECTED OR REPLACED IN AN APPROVED MANNER. TESTS SHALL BE REPEATED UNTIL THE PARTICULAR LINE OR SYSTEM RECEIVES THE APPROVAL OF THE REPRESENTATIVES OF THE ARCHITECT.
- 3.4 BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS FOR THE AUTOMATIC SPRINKLER WORK, FOR ANY DAMAGE TO THE WORK OF OTHERS, TO THE BUILDING, AND PROPERTY/MATERIALS OF OTHERS CAUSED BY LEAKS IN AUTOMATIC SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPES OR FITTINGS, AND SHALL PAY FOR NECESSARY REPLACEMENT OR REPAIR OF WORK OR ITEMS SO DAMAGED.



FIRE PROTECTION FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"
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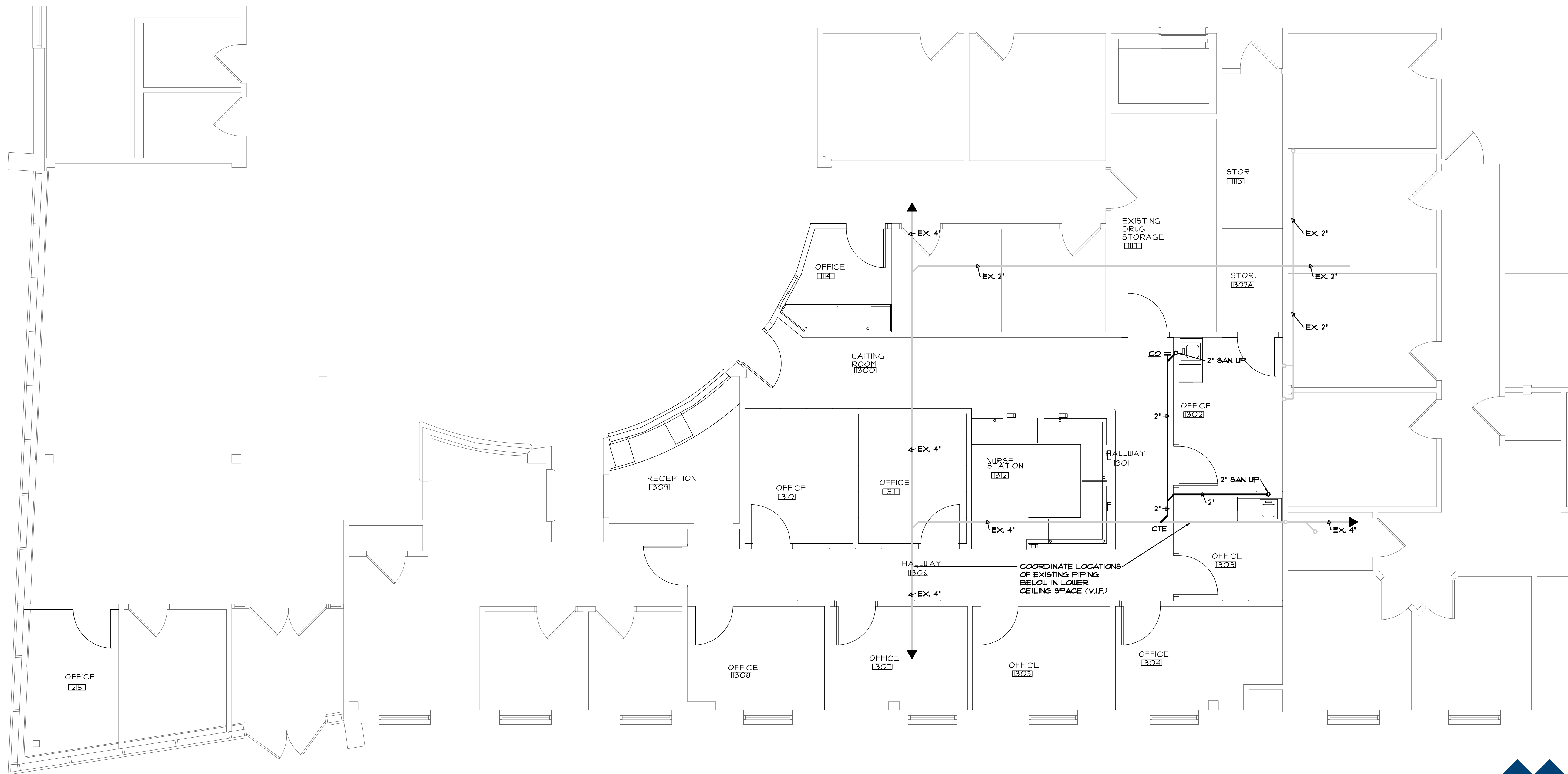
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PROJECT NO.
2202-02

SHEET NUMBER

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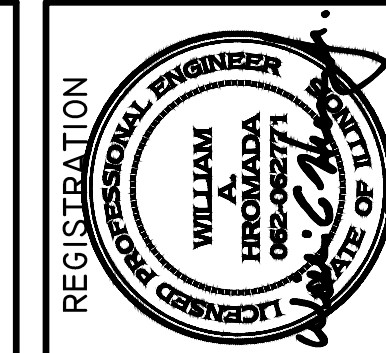
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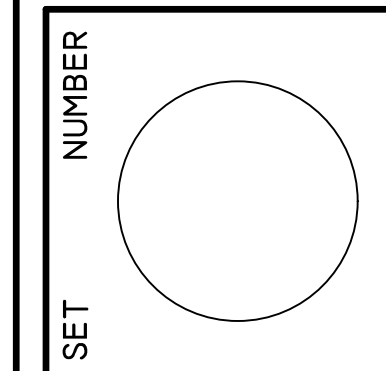
PLUMBING UNDERFLOOR PLAN
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 JOLIET, ILLINOIS

DATE: 7/21/2022
 REVISED:

PROJECT NO.
 2202-02

SHEET NUMBER

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OF 3 SHEETS

PLUMBING EQUIPMENT AND FIXTURE SCHEDULE

TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	FIXTURE VALVE/FAUCET TYPE	FIXTURE VALVE/FAUCET TYPE	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)	ELECTRICAL DATA								
									HP	MCA	FLA	AMPS	MOCP	VOLT	PH	HZ	
S-1	SINK	SINGLE COMPARTMENT STAINLESS STEEL SINK, 15"x15"	ELKAY "BLR-150-C	NOTE #1	2 HANDLE, HIGH GOOSENECK (INCLUDED)	ELKAY "LKD-2223	NOTE #3	MCGUIRE "S-892-C80F P-TRAP, MCGUIRE "4216-10CLK SUPPLIES	-	-	-	-	-	-	-	-	-
TW-1	TEMPERED WATER VALVE	TEMPERED WATER VALVE	BRADLEY "559-42000A TMV	NOTE #2	-	-	-	VALVE RATED AT 2 GPM @ 5 PSI PRESSURE DROP (MIN. FLOW @ 3 GPM)	-	-	-	-	-	-	-	-	-

NOTE #1: JUST
NOTE #2: LEONARD, POWERS, LAULIER

NOTE #3: ZURN, DELTA, T45 BRASS, CHICAGO FAUCET CO.

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

- FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ALL PLUMBING AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC - INSTALL FIXTURES, PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS.
- BIDDING REQUIREMENTS: VISIT SITE PRIOR TO BIDDING TO BECOME FULLY ACQUAINTED WITH ALL FIELD CONDITIONS AND TO DETERMINE FULL EXTENT OF WORK REQUIRED. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY ITEMS NOT SPECIFICALLY INDICATED ON DRAWINGS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR A DECISION. BIDDERS SHALL ACQUAINT THEMSELVES WITH THE WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE WORK READY FOR USE.
- CODES: ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE PLUMBING CODES. ALL MATERIALS SHALL BE IN COMPLIANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.
- OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK REQUIRED. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.
- PROVIDE DIGITAL COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT, FIXTURES AND PIPING LAYOUTS WITHIN 14 DAYS OF CONTRACT AWARDED FOR REVIEW. ANY MINOR CHANGES IN LOCATION OF EQUIPMENT, PIPING OR FIXTURES FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT CHARGE.
- OWNER TRAINING IN THE PROPER OPERATION, MAINTENANCE AND SERVICING OF ALL SYSTEMS IS TO BE PROVIDED. PROVIDE IN A BOUND FORM TWO (2) SETS OF OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS, INCLUDING INFORMATION ON SPARE PARTS, LUBRICATION SCHEDULE, WIRING DIAGRAMS, ETC. FOR ALL FIXTURES AND EQUIPMENT. PROVIDE TWO (2) SETS OF ACCURATELY MARKED "AS BUILT" PRINTS AND ELECTRONIC FILE OF AS-BUILTS.
- WARRANTY: ANY DEFECTS TO ALL EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER. DEFECTIVE EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER, GUARANTEE THAT ALL WORKMANSHIP IS OF HIGH QUALITY AND THAT ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS.

PART 2 - PIPING MATERIALS

- ABOVE GROUND SANITARY DRAINS AND VENT PIPES SHALL BE CAST IRON HUB AND SPIGOT PIPING AND FITTINGS (ASTM A14-1987) OR CAST IRON HUBLESS PIPING AND FITTINGS (CISPI 301-1999) OR SCHEDULE 40 DUV POLYVINYL CHLORIDE (PVC) PIPING AND FITTINGS (ASTM D2665-1999).
- MAKE JOINTS IN HORIZONTAL SUSPENDED CAST IRON HUB AND SPIGOT PIPE WITH PUSH FIT RUBBER GASKETS. MAKE JOINTS IN BELOW GROUND CAST IRON HUB AND SPIGOT PIPE WITH PUSH FIT RUBBER GASKETS. MAKE JOINTS IN HUBLESS CAST IRON PIPING WITH NEOPRENE GASKET WITH STAINLESS STEEL BANDS APPROVED FOR THE SERVICE.
- DOMESTIC HOT, COLD AND HOT WATER RECIRC PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS SUITABLE FOR SOLDERED JOINTS. SOLDERED JOINT CONNECTION SHALL BE MADE WITH 95/5 SOLDER.
- PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR PIPING MATERIALS.
- PIPE HANGERS TO BE EQUAL TO CRANE 239F CLEVIS TYPE OR CRANE 101G C.I. RING, ADJUSTABLE SWIVEL HANGERS. ALL SUPPORTS AND HANGERS SHALL BE SO CONSTRUCTED AND ADJUSTED AS TO ALLOW FOR PROPER PITCH AND EXPANSION OF PIPES. ALL INSULATED PIPING RESTING ON PIPE SUPPORT AND ALL WATER PIPING SHALL BE PROVIDED WITH NO. 18 GAUGE GALVANIZED STEEL HINGED REMOVABLE PIPE COVERING PROTECTION SLEEVES WITH A NO. 12 GAUGE REINFORCING PLATE ON THE BOTTOM EQUAL TO THOSE MANUFACTURED BY STENBRIDGE MANUFACTURING COMPANY. HANGERS AT POINTS OF SUPPORT FOR SUCH PIPING SHALL BE OF AMPLIFIED SIZE TO ENCLOSE THE PIPE COVERING WITHOUT NOTCHING.
- PIPING INSULATION FOR DOMESTIC HOT, COLD AND HOT WATER RECIRC PIPING AND OVERHEAD STORM PIPING SHALL BE 1" THICK JOHN-MANVILLE FLAME-SAFE GC FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET.

PART 3 - PLUMBING FIXTURES AND EQUIPMENT

- FIXTURES AND EQUIPMENT TO BE MANUFACTURED BY AND EQUIVALENT TO AS SCHEDULED ON THE DRAWINGS. FIXTURES SHALL BE COMPLETE WITH ALL ACCESSORIES, SUPPLIES, FRAMES, WALL HANGERS, ETC. AND SHALL BE NEW AND FREE FROM FLAWS, DEFECTS OR BLEMISHES. ALL FINISHED SURFACES SHALL BE CLEAR, SMOOTH AND BRIGHT AND GUARANTEED NOT TO CRAZE, DISCOLOR OR SCALE. ALL VISIBLE PARTS OF THE TRIMMING OF ALL FIXTURES, INCLUDING FAUCETS, ESCUTCHEONS, WASTES, STRAINERS, TRAPS, SUPPLIES, STOPS, ETC. SHALL BE HEAVILY CHROME PLATED.

PART 4 - EXECUTION

- INSTALL ALL DRAIN AND SOIL PIPING AND ECCENTRIC FITTINGS OF DIMENSIONS AND IN LOCATION SHOWN ON THE DRAWINGS. HORIZONTAL PIPING 4" AND OVER SHALL BE PITCHED ON AN EVEN GRADE OF NOT LESS THAN 1/8" PER FOOT RUN. SMALLER PIPING SHALL HAVE GREATER PITCH. TURNS SHALL BE MADE WITH LONG RADIUS BENDS OF 1/8 BENDS AND FITTINGS AND 45° ELBOWS.

- REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES ON THIS PROJECT.
- VENT PLUMBING FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL PLUMBING CODE. COORDINATE VENT THROUGH ROOF LOCATIONS WITH OUTDOOR AIR INTAKE LOCATIONS TO MAINTAIN A MINIMUM SEPARATION OF TEN FEET.
- WATER PIPING TO PLUMBING FIXTURES SHALL HAVE WATER HAMMER ARRESTORS AND VACUUM BREAKER AS PER LOCAL PLUMBING CODE.
- SUPPLY AND INSTALL SHUT-OFF VALVES ON ALL MAIN BRANCHES, AT ALL EQUIPMENT, TANKS, PUMPS, FIXTURES AND ELSEWHERE AS SHOWN OR AS REQUIRED. ALL VALVES SHALL HAVE MINIMUM 125 PSI PRESSURE RATING AND SHALL BE AS SHOWN OR AS REQUIRED TO SUIT JOB CONDITIONS.
- ALL ISOLATION VALVES SHALL BE INSTALLED OVER ACCESSIBLE CEILING. WHEN ISOLATION VALVES ARE INSTALLED OVER INACCESSIBLE CEILING AREAS, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL 12" X 12" (MINIMUM) CEILING ACCESS DOORS. TYPE TO BE VANDALPROOF, TAMPERPROOF ASSEMBLIES. INSTALLATION TO BE COORDINATED WITH GENERAL CONTRACTOR ON THIS PROJECT.
- NO BULL HEADED TEES SHALL BE USED ON WATER PIPING.
- STERILIZE AND TEST WATER AND PIPING SYSTEMS AS PER LOCAL AND STATE REQUIREMENTS.
- THE DISINFECTING AND FLUSHING PROCEDURE SHALL BE REPEATED AS DIRECTED UNTIL A LABORATORY BACTERIOLOGICAL EXAMINATION OF WATER SAMPLES INDICATES THAT THE SYSTEM IS FREE FROM CONTAMINATION AS APPROVED BY THE LOCAL WATER AUTHORITIES AND COPIES OF THEIR REPORT SUBMITTED TO THE ARCHITECT.
- PROVIDE CUTTING, CORE DRILLING AND PATCHING OF EXISTING FLOOR, WALL AND ROOF CONSTRUCTIONS REQUIRED FOR THE INSTALLATION OF NEW PIPING. SEAL PENETRATIONS THROUGH FLOOR, WALL AND ROOF STRUCTURE WATERTIGHT AND WITH AN APPROVED FIRE STOPPING MATERIAL, INCLUDING APPROVED FIRE RATED SLEEVE.

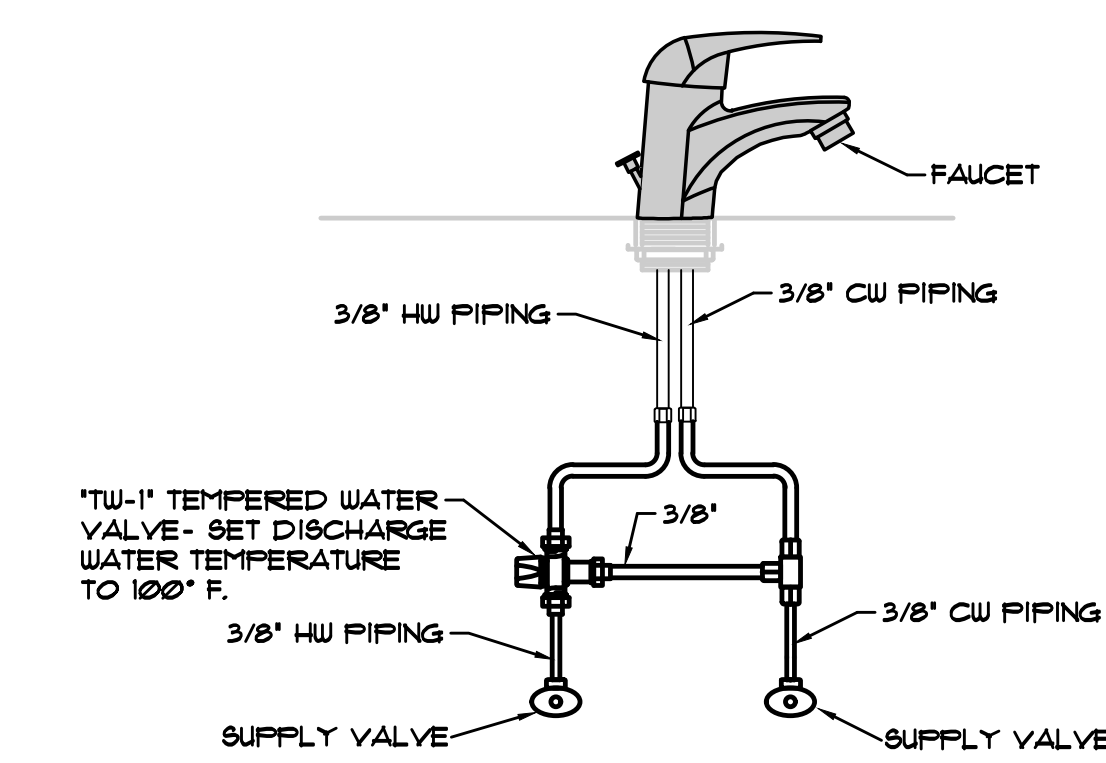
PART 5 - WORK IN EXISTING BUILDING

- VISIT SITE PRIOR TO BID AND VERIFY ALL EXISTING PLUMBING SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE EXTENT OF NEW AND DEMOLITION WORK. CONTRACTOR SHALL VERIFY ALL EXISTING SANITARY PIPING SYSTEMS AS TO ROUTING, SIZE AND INVERT ELEVATION PRIOR TO ANY INSTALLATION OF NEW AND REMOVAL OF ANY EXISTING.
- ALL CUTTING AND PATCHING OF EXISTING FLOOR SLAB REQUIRED FOR THE INSTALLATION OF ALL NEW PIPING SHALL BE DONE BY THIS CONTRACTOR.
- CUT OR CHANNEL INTO EXISTING WALL CONSTRUCTIONS AS REQUIRED FOR INSTALLATION OF NEW PIPING WITHIN EXISTING WALLS. PATCH WALL SURFACES AND FINISH AS REQUIRED TO MATCH EXISTING CONDITIONS.
- COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC. SHALL BE REWORKED AS REQUIRED TO AVOID ALL CONFLICTS WITH THE INSTALLATION OF THE NEW MECHANICAL SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.
- ALL CORE DRILLING AND PATCHING OF EXISTING FLOOR, WALL AND ROOF CONSTRUCTIONS REQUIRED FOR THE INSTALLATION OF NEW PIPING SHALL BE DONE BY THIS CONTRACTOR. SEAL PENETRATIONS THROUGH FLOOR, WALL AND ROOF STRUCTURE WATERTIGHT AND WITH AN APPROVED FIRE STOPPING MATERIAL, INCLUDING APPROVED FIRE RATED SLEEVE.
- REMOVE ALL EXISTING CEILING REQUIRED FOR INSTALLATION OF NEW WORK. CONTRACTOR IS TO REINSTALL CEILING UPON COMPLETION OF WORK - REPLACE ALL DAMAGED CEILING MATERIALS TO MATCH EXISTING.
- GYPHUM BOARD CEILING: PROVIDE CONCEALED CONTROL JOINT AT EDGES ABUTTING EXISTING GYPHUM BOARD CEILING. TAPE IN NEW AREAS TO EXISTING FLUSH - PROVIDE TEXTURE TO MATCH EXISTING.
- ALL WORK ON THE ROOF SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE EXISTING ROOFING MANUFACTURERS RECOMMENDATIONS. ROOF WORK SHALL BE PERFORMED BY CERTIFIED INSTALLERS AS TO MAINTAIN THE EXISTING ROOF WARRANTY. ANY CORRECTIVE MEASURES SHALL BE PERFORMED BY CERTIFIED INSTALLERS AS TO MAINTAIN THE EXISTING ROOF WARRANTY.

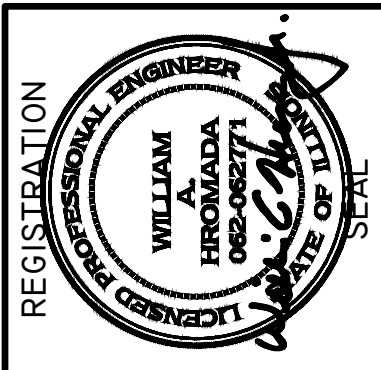
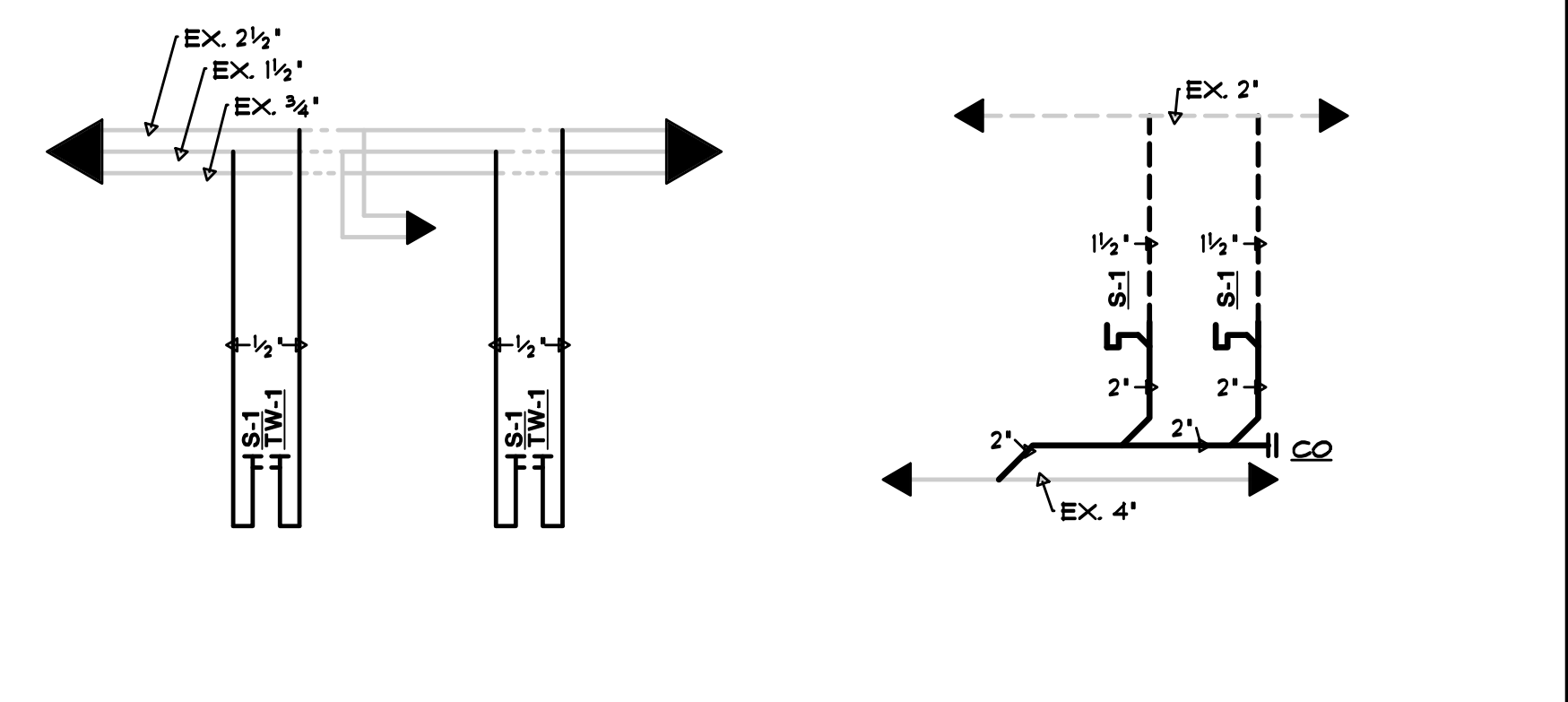
SYMBOL LIST

— — — — —	EXISTING OVERHEAD SANITARY PIPING	CO	CLEANOUT
— — — — —	EXISTING VENT PIPING	CTE	CONNECT TO EXISTING
— — — — —	EXISTING COLD WATER PIPING	CW	COLD WATER
— — — — —	EXISTING HOT WATER PIPING	DN	DOWN
— — — — —	EXISTING HOT WATER RECIRCULATION PIPING	DN	EXISTING
— — — — —	NEW OVERHEAD SANITARY PIPING	HU	HOT WATER
— — — — —	NEW VENT PIPING	HUR	HOT WATER RECIRCULATION
— — — — —	NEW COLD WATER PIPING	S	SINK
— — — — —	NEW HOT WATER PIPING	TU	TEMPERED WATER
— — — — —	PIPE DOWN	V	VENT
— — — — —	PIPE UP		
— — — — —	SHUT-OFF VALVE		

TEMPERED WATER VALVE DIAGRAM



PLUMBING RISER DIAGRAMS



stromstand + de young + pryboys
ARCHITECTURE GROUP
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Joliet, Illinois 60433
www.sdgagroup.com
815-727-1311
L. N. : 184-000437

NUMBER
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WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

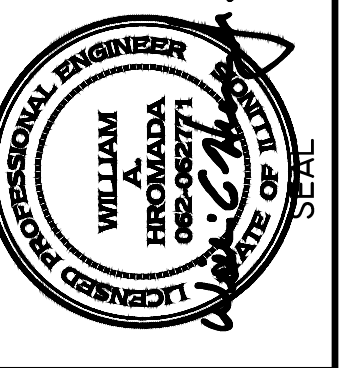
DATE: 7/21/2022
REVISED:

PROJECT NO. 2202-02

SHEET NUMBER

P3
OF 3 SHEETS





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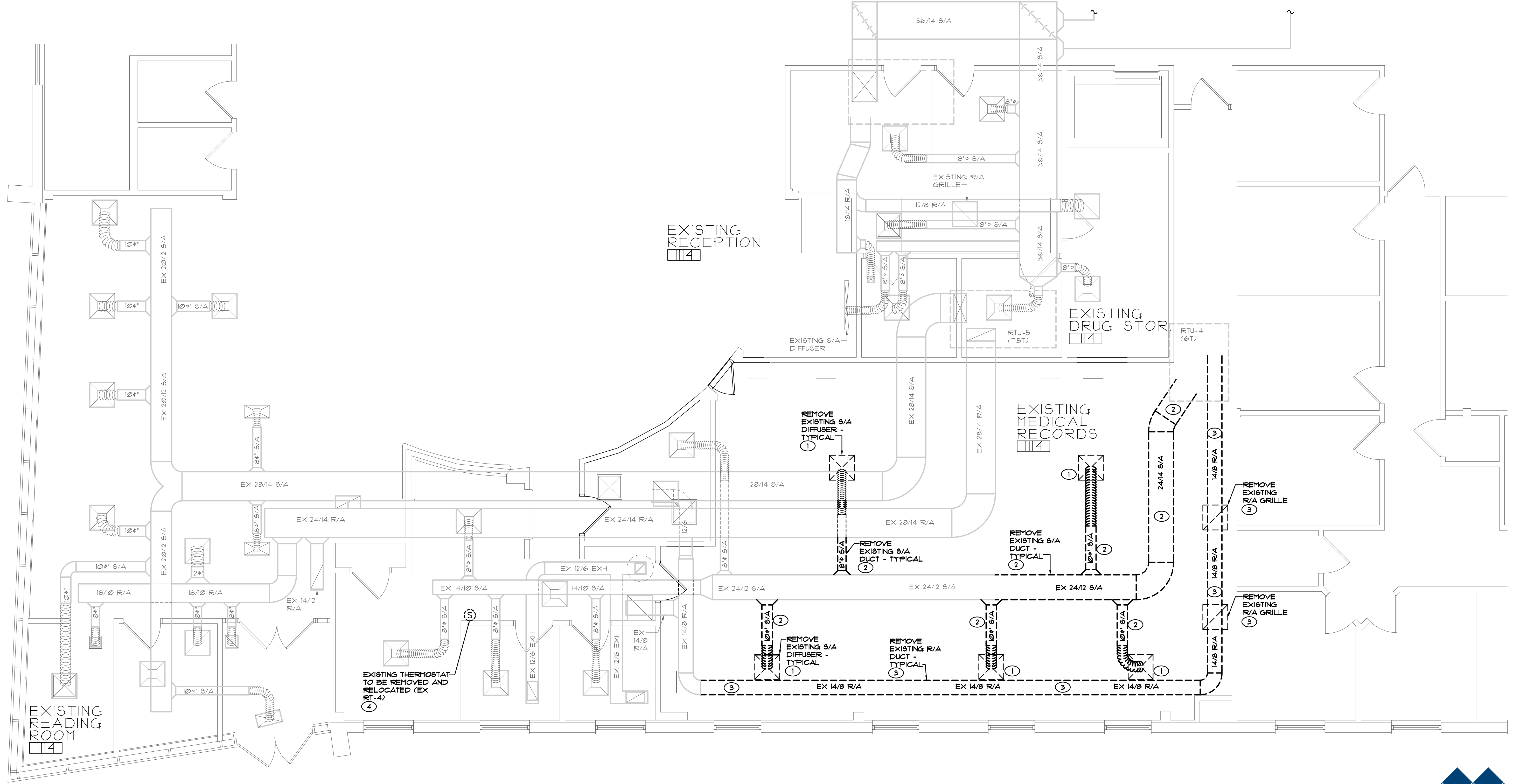
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DM1

OF 1 SHEETS

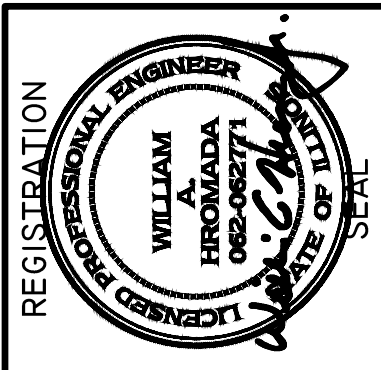
SHEET NOTES

1. REMOVE EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK COMPLETE AS REQUIRED.
2. REMOVE EXISTING SUPPLY AIR DUCTWORK COMPLETE AS REQUIRED.
3. REMOVE EXISTING RETURN AIR GRILLE AND ASSOCIATED DUCTWORK COMPLETE AS REQUIRED.
4. EXISTING TEMPERATURE SENSOR TO BE REMOVED AND RELOCATED.



MECHANICAL FIRST FLOOR DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"
 NORTH





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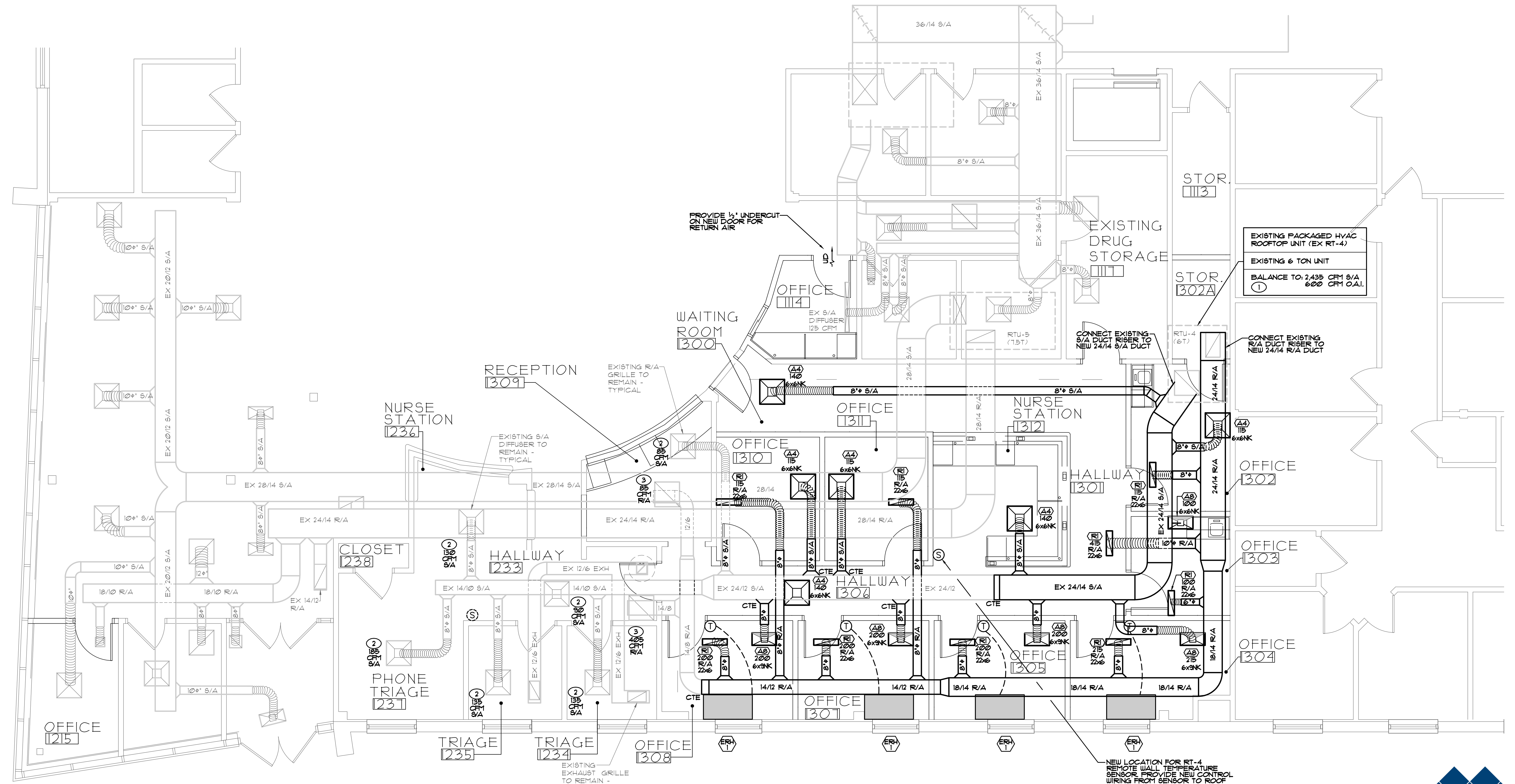
SHEET NUMBER

M1

OF 2 SHEETS

SHEET NOTES

- CLEAN, LUBRICATE AND CHECK EXISTING UNIT FOR PROPER OPERATION AND SUBMIT REPORT FOR ANY UNIT DEFICIENCIES. CHANGE FILTERS AND PROVIDE NEW BELTS. BALANCE UNIT TO SUPPLY AIR AND MINIMUM OUTSIDE AIR VALUES INDICATED.
- EXISTING SUPPLY AIR DIFFUSER TO REMAIN. BALANCE EXISTING SUPPLY AIR DIFFUSER TO AIRFLOW QUANTITY INDICATED ON PLAN.
- EXISTING RETURN AIR GRILLE TO REMAIN. BALANCE EXISTING RETURN AIR GRILLE TO AIRFLOW QUANTITY INDICATED ON PLAN.



REPAIR AND RESTORE VAPOR BARRIER ON ALL DUCT WRAP INSULATION AND DUCT LINING DAMAGED DURING THIS RENOVATION.

NEW LOCATION FOR RT-4 REMOTE WALL TEMPERATURE SENSOR PROVIDE NEW CONTROL WIRING FROM SENSOR TO ROOF TOP UNIT AND TO REMOTE CARRIER MASTER STAT IN LOWER LEVEL MAINTENANCE AREA. COMPLETE AS REQUIRED.

MECHANICAL FIRST FLOOR HYAC PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



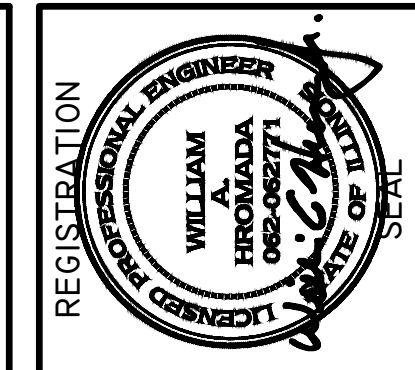
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DUCTWORK INSULATION/LINING SCHEDULE		
REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS		
DUCTWORK TYPE	INSULATION TYPE	
	CONCEALED	EXPOSED
SUPPLY AIR DUCTWORK		
RECTANGULAR	1/2" LINER	1/2" LINER
ROUND	1/2" WRAP, NOTE 1	PERFORATED DOUBLE WALL
RETURN AIR DUCTWORK		
RECTANGULAR	1/2" LINER	1/2" LINER
ROUND	PERFORATED DOUBLE WALL	PERFORATED DOUBLE WALL
NOTE 1: ROUND DUCT SUPPLYING ONE DIFFUSER AND MORE THAN 30'-0" FROM UNIT		

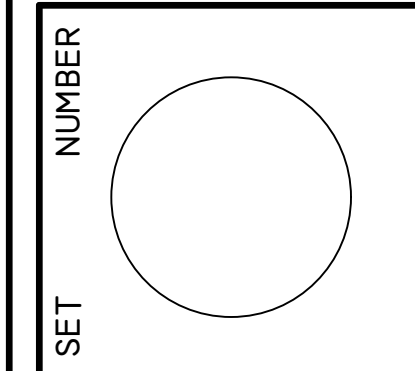
GRILLE, REGISTER & DIFFUSER SCHEDULE								
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	TYPE OF CONTROL	REMARKS
A4	NAILOR	6500-0	SUPPLY CEILING DIFFUSER	4-WAY	2' X 2' LAY-IN PANEL	SEE PLANS	O.B.D.	-
A8	NAILOR	6500-0	SUPPLY CEILING DIFFUSER	3-WAY	2' X 1' LAY-IN PANEL	SEE PLANS	O.B.D.	-
RI	NAILOR	6145H-0	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	O.B.D.	-
* ALL DIFFUSERS AND REGISTERS SHALL HAVE A WHITE FINISH UNLESS OTHERWISE NOTED								

MECHANICAL EQUIPMENT SCHEDULE - ELECTRIC HEATERS																									
TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN DATA		ELECTRIC HEAT DATA					ELECTRICAL DATA			UNITS	EQUIP	REMARKS									
				S/A	CFM	MBH	KW	EAT	LAT	LOAD	HP	MCA	FLA				AMPS	MOCP	VOLT	PHASE	HZ	DISC. SUIT.	MC.	EC.	CONTROLLED
ERH-1	QMARK	CP-31F	CEILING MOUNTED 2x2 RADIANT HEATER	-		13	0.4	-	-	-	-	-	-	3.1	15	120	1	60	-	X	WALL	MTD	TSTAT	15	NOTE 1
NOTE 1: PROVIDE WITH MOUNTING HARDWARE AND REMOTE WALL THERMOSTAT																									

MECHANICAL SPECIFICATIONS																																																																																									
<p>PART 1 - GENERAL</p> <p>11 FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ALL MECHANICAL SERVICES AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC - INSTALL DUCTWORK, PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS.</p> <p>12 BIDDING REQUIREMENTS: VISIT SITE PRIOR TO BECOME BIDDING TO FULLY ACQUAINTED WITH ALL FIELD CONDITIONS AND TO DETERMINE FULL EXTENT OF WORK REQUIRED. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY ITEMS NOT SPECIFICALLY INDICATED ON DRAWINGS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR A DECISION. BIDDERS SHALL ACQUAINT THEMSELVES WITH THE WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE WORK READY FOR USE.</p> <p>13 CODES: ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE HVAC CODES. ALL MATERIALS SHALL BE IN COMPLIANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.</p> <p>14 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK REQUIRED. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.</p> <p>15 SHOP DRAWINGS TO BE SUBMITTED ELECTRONIC PDF FILES FOR ALL EQUIPMENT, DUCTWORK AND PIPING LAYOUTS WITHIN 14 DAYS OF CONTRACT AWARDING FOR REVIEW. ANY MINOR CHANGES IN LOCATION OF EQUIPMENT, PIPING OR DUCTWORK FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT CHARGE IF SO DIRECTED BY THE ARCHITECT BEFORE INSTALLATION.</p> <p>16 OWNER TRAINING IN THE PROPER OPERATION, MAINTENANCE AND SERVICING OF ALL SYSTEMS IS TO BE PROVIDED. PROVIDE IN A BOUND FORM TWO (2) SETS OF OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS, INCLUDING INFORMATION ON SPARE PARTS, LUBRICATION SCHEDULE, WIRING DIAGRAMS, ETC., FOR ALL MATERIALS AND EQUIPMENT. PROVIDE TWO (2) SETS OF ACCURATELY MARKED 'AS BUILT' PRINTS, ELECTRONIC FILE OF AS-BUILTS, AND TWO COPIES OF TRAINING SESSION VIDEO (DVD FORMAT).</p> <p>17 WARRANTY ANY DEFECTS TO ALL EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER (FIVE YEARS FOR REFRIGERATION COMPRESSORS - PARTS AND LABOR). DEFECTIVE EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. GUARANTEE THAT ALL WORKMANSHIP IS OF HIGH QUALITY AND THAT ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS. CONDUCT, AT NO COST TO THE OWNER, CAPACITY TESTS ON ANY EQUIPMENT FURNISHED BY HIM WHEN SO REQUESTED BY THE ARCHITECT OR HIS REPRESENTATIVE WITHIN THE ONE YEAR PERIOD.</p> <p>PART 2 - AIR DISTRIBUTION SYSTEMS</p> <p>21 DUCTWORK TO BE GALVANIZED SHEETMETAL FABRICATED ACCORDING TO SMACNA'S DUCT CONSTRUCTION STANDARDS (LATEST EDITION). UTILIZE PITTSBURGH LOCK SEAMS FOR ALL LONGITUDINAL SEAMS (NO EXCEPTIONS). SEAL ALL JOINTS AND SEAMS FOR AN AIRTIGHT INSTALLATION. EXPOSED DUCTWORK AND SHEETMETAL PANELS IN FINISHED AREAS ARE TO BE PROVIDED WITH PAINT-GRIP READY FOR PRIMING AND PAINTING. ALL EXPOSED ROUND DUCTWORK TO BE SPIRAL TYPE DUCTWORK AND FITTINGS.</p> <p>22 FLEXIBLE DUCTWORK TO BE EQUIVALENT TO THERMAFLEX MODEL MKE AND SHALL BE UL LABELLED FOR USE IN RETURN AIR FLENUM. FLEXIBLE DUCTWORK MAY BE USED TO THE INLET OF REGISTERS, GRILLES AND DIFFUSERS AND TO BE 5'-0" MAXIMUM LENGTH, SUPPORTED WHERE REQUIRED TO PREVENT MOVEMENT.</p>	<p>23 DUCTWORK INSULATION: SUPPLY AIR (ROUND), RETURN AIR AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1-1/2" THICK FIBERGLASS INSULATION (MIN. R-6) WITH FRK VAPOR BARRIER. ALL INSTALLATION, TAPES, MASTICS, ETC. TO BE AS PER INSULATION MANUFACTURER'S RECOMMENDATIONS.</p> <p>24 DUCTWORK LINING: SUPPLY AIR (RECTANGULAR) AND RETURN AIR DUCTWORK TO BE INTERNALLY LINED WITH 1-1/2" THICK ACOUSTIC AND THERMAL FLEXIBLE FIBERGLASS LINER WITH REINFORCED AIRSIDE COATING AND ANTIMICROBIAL PROTECTION EQUIVALENT TO JOHN'S MANVILLE LINACOUSITIC RC. DUCTWORK DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS AFTER LINING IS APPLIED. SEAL ALL CUT EDGES AS PER MANUFACTURER'S RECOMMENDATIONS.</p> <p>25 BALANCING DAMPERS TO BE EQUIVALENT TO AMERICAN WARMING MODEL VC-8/3 AND SHALL HAVE LOCKING QUADRANT REGULATORS WITH SPRING LOADED END BEARING. INSTALLATION SHALL BE RATTLE FREE. COORDINATE LOCATIONS WITH BALANCING CONTRACTOR. PROVIDE DAMPERS AT EACH DUCTWORK TAKE-OFF INCLUDING TAKEOFFS TO EACH AIR DISTRIBUTION DEVICE.</p> <p>26 REGISTERS, GRILLES AND DIFFUSERS TO BE EQUIVALENT TO AS SCHEDULED ON DRAWINGS AND TO BE AS MANUFACTURED BY CARNES, METALAIRE, PRICE, NAILOR, TITUS AND KRUEGER. VERIFY CEILING STYLES AND TYPES BEFORE ORDERING REGISTERS, GRILLES AND DIFFUSERS. PROVIDE APPROPRIATE FRAME STYLES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.</p> <p>PART 3 - HVAC EQUIPMENT</p> <p>31 HVAC EQUIPMENT SHALL BE TESTED, RATED AND CERTIFIED AS COMPLETE UNIT IN ACCORDANCE WITH ARI, AND A.G.A. FOR CAPACITIES AND SOUND RATINGS AND BE UL LISTED. EQUIPMENT TO MEET ASHRAE 90.1 GUIDELINES.</p> <p>32 ELECTRIC RADIANT HEATING CEILING PANELS TO BE EQUIVALENT TO AS SCHEDULED ON DRAWINGS AND TO BE AS MANUFACTURED BY QMARK, INDEECO, OR MARLEY.</p> <p>PART 4 - TEMPERATURE CONTROLS</p> <p>41 ELECTRIC RADIANT HEATING CEILING PANELS:</p> <p>A. ELECTRIC RADIANT HEATING CEILING PANELS SHALL BE CONTROLLED BY A REMOTE WALL THERMOSTAT.</p> <p>42 EXISTING WALL REMOTE SENSORS.</p> <p>A. RELOCATE EXISTING REMOTE WALL SENSOR AS INDICATED ON THE CONTRACT DOCUMENTS. PROVIDE NEW CONTROL WIRING BETWEEN RELOCATED REMOTE WALL TO SENSOR TO RT-4 AND TO CONTROL THERMOSTAT LOCATED IN THE LOWER LEVEL MAINTENANCE AREA. COORDINATE ALL REQUIREMENTS WITH EXISTING SYSTEM MANUFACTURER.</p> <p>PART 5 - TESTING AND BALANCING</p> <p>51 TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS TO VALUES INDICATED ON PLANS AND AS REQUIRED AS PER TABB AND NEBB GUIDELINES. TESTING AND BALANCING TO BE DONE BY ONE OF THE FOLLOWING COMPANIES:</p> <p>A. AARON ENGINEERING SERVICES 5420 W. ROOSEVELT RD. CHICAGO, IL 60644</p> <p>B. MECHANICAL TEST & BALANCE P.O. BOX 1383 BOLINGBROOK, IL 60440</p> <p>C. CONTROLLED ENVIRONMENT TESTING & BALANCING 1350 REMINGTON ROAD SCHAUMBURG, IL 60173</p>																																																																																								
<p>52 REGULATE AND ADJUST ALL FANS AND BALANCING DAMPERS FOR THE REQUIRED AIR QUANTITIES OF ALL FAN SYSTEMS AND FOR ALL RESPECTIVE AIR OPENINGS. THIS SHALL INCLUDE SETTING UP DAMPER POSITION FOR MINIMUM OUTSIDE DAMPERS. MARK POSITION OF DAMPERS INDICATING FINAL BALANCE POSITIONS.</p> <p>53 SUBMIT ELECTRONIC PDF COPIES OF FINAL CERTIFIED TEST READINGS WITH THE FOLLOWING INFORMATION:</p> <p>A. CFM QUANTITY, STATIC PRESSURE, FAN RPM, MOTOR AMPERAGE, ETC. FOR ALL SUPPLY, RETURN AND EXHAUST FAN SYSTEMS</p> <p>B. CFM QUANTITY FOR ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR OPENING/DEVICE FOR ALL AIR SYSTEMS</p> <p>C. CFM QUANTITY (MINIMUM AND MAXIMUM) AND INLET STATIC PRESSURE FOR ALL VAV TERMINAL UNITS</p> <p>PART 6 - EXECUTION</p> <p>61 DUCTWORK: ROUTE ALL NEW DUCTWORK AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH OTHER TRADES. VERIFY CONDITIONS AND EXACT DUCTWORK ROUTING IN FIELD PRIOR TO INSTALLATION. SEAL ALL DUCTWORK JOINTS AIR-TIGHT.</p> <p>62 DUCTWORK, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.</p> <p>63 REGISTERS, GRILLES AND DIFFUSERS: COORDINATE EXACT LOCATION OF ALL CEILING REGISTERS, GRILLES AND DIFFUSERS WITH LIGHTING LAYOUT, SPRINKLER HEADS, AND CEILING GRID. SEE ARCHITECTURAL REFLECTED CEILING PLAN. VERIFY EXACT LOCATION WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION. THE MINIMUM DISTANCE BETWEEN SUPPLY DIFFUSERS AND SMOKE OR HEAT DETECTORS IS TO BE A MINIMUM OF 3'. COORDINATE WITH FIRE ALARM CONTRACTOR AS REQUIRED.</p> <p>64 COORDINATION: CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZES OF DUCTWORK, PIPING AND EQUIPMENT IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN INSTALLATIONS OR THE PROGRESS OF THE WORK FOR ANY CONTRACTOR ON THE BUILDING. LAY OUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE. COORDINATE ALL EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) WITH ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.</p> <p>65 VERIFY LOCATION AND ELEVATION OF DUCTWORK, PIPING, DIFFUSERS/GRILLES, THERMOSTATS, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.</p> <p>66 CUTTING AND PATCHING TO BE PROVIDED SO THE WORK MAY BE PROPERLY INSTALLED. ALL DISTURBED CONSTRUCTION OR FINISH MUST BE REPLACED OR REPAIRED TO THE ARCHITECT'S SATISFACTION AT THIS CONTRACTOR'S EXPENSE. UNDER NO CONDITION SHALL STRUCTURAL WORK BE CUT EXCEPT UPON APPROVAL OF THE ARCHITECT.</p> <p>67 CLEANING: UPON COMPLETION OF INSTALLATION OF VENTILATION DUCTS, CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT, ETC., BEFORE INSTALLING GRILLES OR DIFFUSERS. REMOVE ALL DEBRIS FROM JOB SITE AND LEAVE ALL MECHANICAL EQUIPMENT CLEAN.</p>	<p>SYMBOLS/ABBREVIATIONS</p> <table border="1"> <thead> <tr> <th>SYMBOL</th> <th>DESCRIPTION</th> <th>ABBREVIATIONS</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>EXISTING DUCTWORK</td> <td>DN</td> <td>DOWN</td> </tr> <tr> <td></td> <td>SQUARE TO ROUND TRANSITION</td> <td>EAT</td> <td>ENTERING AIR TEMPERATURE</td> </tr> <tr> <td></td> <td>EXISTING DUCTWORK</td> <td>EC</td> <td>ELECTRICAL CONTRACTOR</td> </tr> <tr> <td></td> <td>NEW DUCTWORK</td> <td>ERH</td> <td>ELECTRICAL RADIANT HEATER</td> </tr> <tr> <td></td> <td>DUCTWORK TO BE REMOVED</td> <td>EX</td> <td>EXISTING</td> </tr> <tr> <td></td> <td>NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK</td> <td>EXH</td> <td>EXHAUST</td> </tr> <tr> <td></td> <td>SUPPLY AIR DUCT DOWN</td> <td>FD</td> <td>FIRE DAMPER</td> </tr> <tr> <td></td> <td>SUPPLY AIR DUCT UP</td> <td>HZ</td> <td>HERTZ</td> </tr> <tr> <td></td> <td>RETURN OR EXHAUST DUCT DOWN</td> <td>KW</td> <td>KILOWATTS</td> </tr> <tr> <td></td> <td>RETURN OR EXHAUST DUCT UP</td> <td>LAT</td> <td>LEAVING AIR TEMPERATURE</td> </tr> <tr> <td></td> <td>RETURN OR EXHAUST REGISTER</td> <td>MBH</td> <td>1,000 BTU/HOUR</td> </tr> <tr> <td></td> <td>SUPPLY AIR DIFFUSER</td> <td>MC</td> <td>MECHANICAL CONTRACTOR</td> </tr> <tr> <td></td> <td>FLEXIBLE DUCTWORK</td> <td>NK</td> <td>NECK</td> </tr> <tr> <td></td> <td>SEE SCHEDULES</td> <td>OAI</td> <td>OUTSIDE AIR INTAKE</td> </tr> <tr> <td></td> <td>SHEET NOTE</td> <td>OBD</td> <td>OPPOSED BLADE DAMPER</td> </tr> <tr> <td></td> <td>NON ADJUSTABLE THERMOSTAT</td> <td>R/A</td> <td>RETURN AIR</td> </tr> <tr> <td></td> <td>THERMOSTAT - ADJUSTABLE</td> <td>RT</td> <td>ROOFTOP UNIT</td> </tr> <tr> <td></td> <td></td> <td>S/A</td> <td>SUPPLY AIR</td> </tr> <tr> <td></td> <td></td> <td>T&P</td> <td>TOTAL STATIC PRESSURE</td> </tr> <tr> <td></td> <td></td> <td>TYP</td> <td>TYPICAL</td> </tr> <tr> <td></td> <td></td> <td>UD</td> <td>UNDERCUT DOOR</td> </tr> </tbody> </table>	SYMBOL	DESCRIPTION	ABBREVIATIONS	DESCRIPTION		EXISTING DUCTWORK	DN	DOWN		SQUARE TO ROUND TRANSITION	EAT	ENTERING AIR TEMPERATURE		EXISTING DUCTWORK	EC	ELECTRICAL CONTRACTOR		NEW DUCTWORK	ERH	ELECTRICAL RADIANT HEATER		DUCTWORK TO BE REMOVED	EX	EXISTING		NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK	EXH	EXHAUST		SUPPLY AIR DUCT DOWN	FD	FIRE DAMPER		SUPPLY AIR DUCT UP	HZ	HERTZ		RETURN OR EXHAUST DUCT DOWN	KW	KILOWATTS		RETURN OR EXHAUST DUCT UP	LAT	LEAVING AIR TEMPERATURE		RETURN OR EXHAUST REGISTER	MBH	1,000 BTU/HOUR		SUPPLY AIR DIFFUSER	MC	MECHANICAL CONTRACTOR		FLEXIBLE DUCTWORK	NK	NECK		SEE SCHEDULES	OAI	OUTSIDE AIR INTAKE		SHEET NOTE	OBD	OPPOSED BLADE DAMPER		NON ADJUSTABLE THERMOSTAT	R/A	RETURN AIR		THERMOSTAT - ADJUSTABLE	RT	ROOFTOP UNIT			S/A	SUPPLY AIR			T&P	TOTAL STATIC PRESSURE			TYP	TYPICAL			UD	UNDERCUT DOOR
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BEHAVIORAL HEALTH SUITE
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 1106 NEAL AVENUE
 JOLIET, ILLINOIS

DATE: 7/21/2022
 REVISED:

PROJECT NO.
 2202-02

SHEET NUMBER

M2

OF 2 SHEETS



GENERAL NOTES

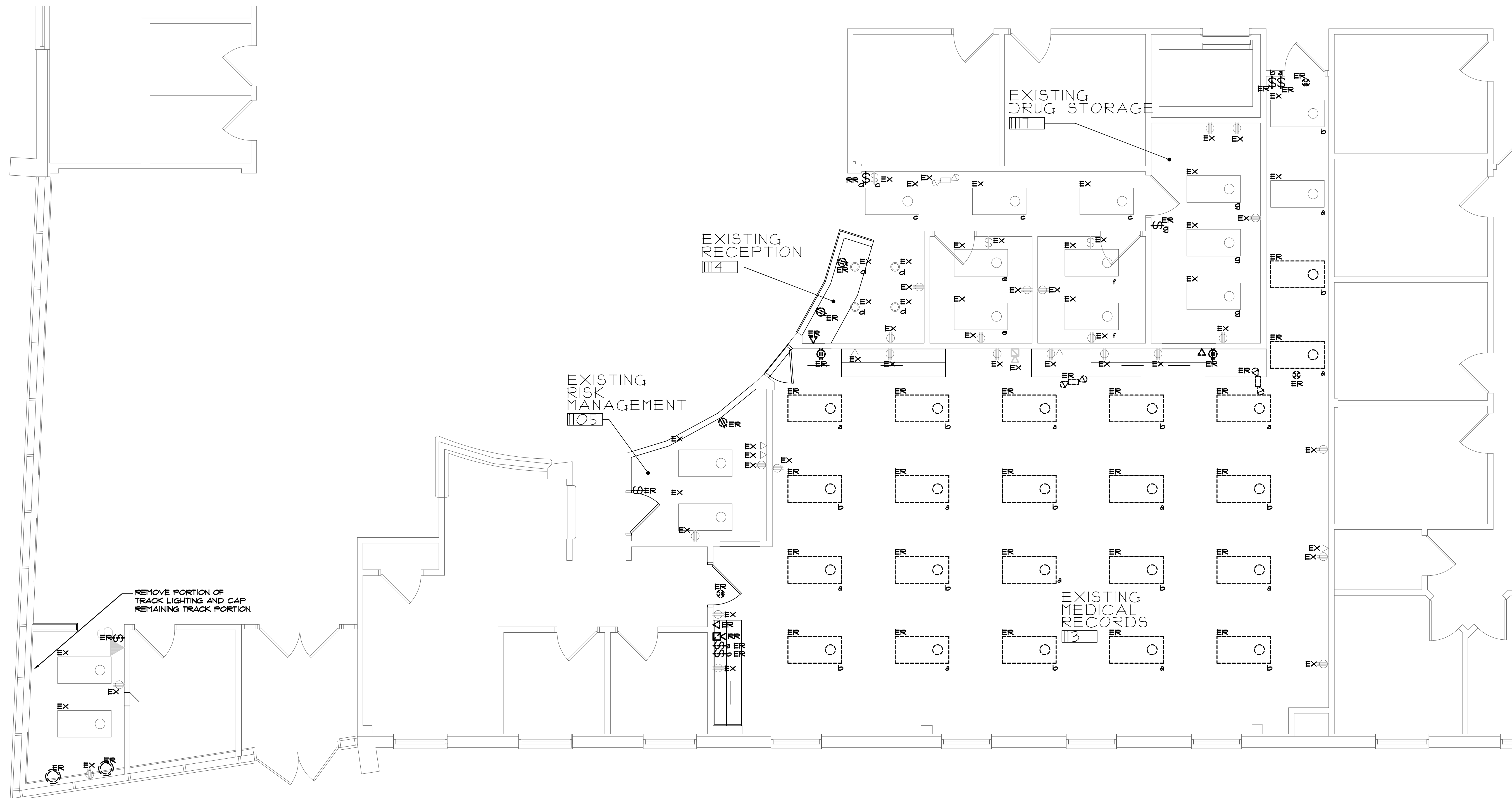
1. DEVICES SHOWN ARE FOR ASSISTANCE ONLY. VERIFY ALL DEVICE LOCATIONS IN FIELD AND REMOVE AS REQUIRED PER THE NOTES BELOW.
2. DISCONNECT AND REMOVE EXISTING POWER AND LOW VOLTAGE DEVICES LABELED AND SHOWN AS 'EX'. REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX FOR EXTENSION TO NEW DEVICES, COMPLETE AS REQUIRED.
3. REMOVE EXISTING LIGHTING CONTROLS SERVING LIGHT FIXTURES TO BE REMOVED IN THIS SPACE. VERIFY EXACT LOCATION IN FIELD. REMOVE EXISTING WIRING BACK TO SOURCE. RETAIN EXISTING JUNCTION BOXES AND CONDUIT FOR USE WITH NEW LIGHTING CONTROLS WHERE POSSIBLE. COORDINATE CONDITIONS AND REQUIREMENTS IN FIELD, COMPLETE AS REQUIRED.
4. DISCONNECT AND REMOVE EXISTING LIGHTING (LABELED AND SHOWN AS 'ER') AND RELATED CIRCUITRY BACK TO NEAREST JUNCTION BOX COMPLETE AS REQUIRED. RETAIN ALL ASSOCIATED WIRING, CONDUIT, ETC. FOR USE WITH NEW LIGHTING AND CONTROLS.
5. ALL CONDUIT, CABLING, OR DEVICES THAT BECOME ABANDONED AS PART OF THE DEMOLITION WORK SHALL BE REMOVED.

EX. PANEL RP6 -
120/208V, 3PH, 4W, 200A-MCB

EX. PANEL RP3 -
120/208V, 3PH, 4W, 200A-MCB

EX. PANEL RP2 -
120/208V, 3PH, 4W, 200A-MCB

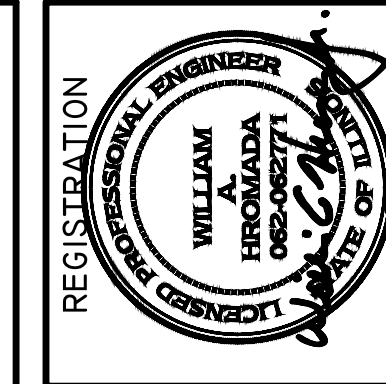
EX. PANEL LPB -
120/208V, 3PH, 4W, 200A-MCB



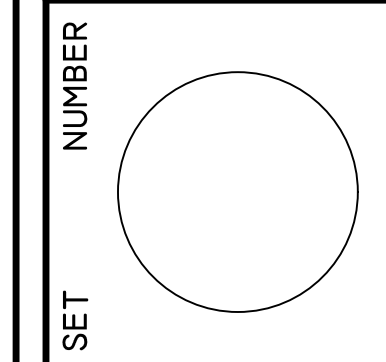
ELECTRICAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"
NORTH



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WILL COUNTY COMMUNITY HEALTH CENTER
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2202-02

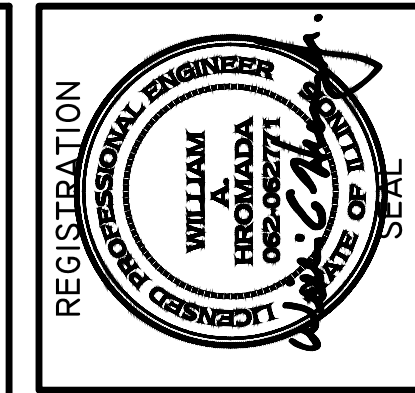
SHEET NUMBER

DE1

OF 1 SHEETS

GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY AND EXISTING SWITCHING DEVICES, COMPLETE AS REQUIRED. MAXIMUM 1400W PER 120 VOLT CIRCUIT AND 4400W PER 277 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #2 AND 1 #2 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.



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SET NUMBER

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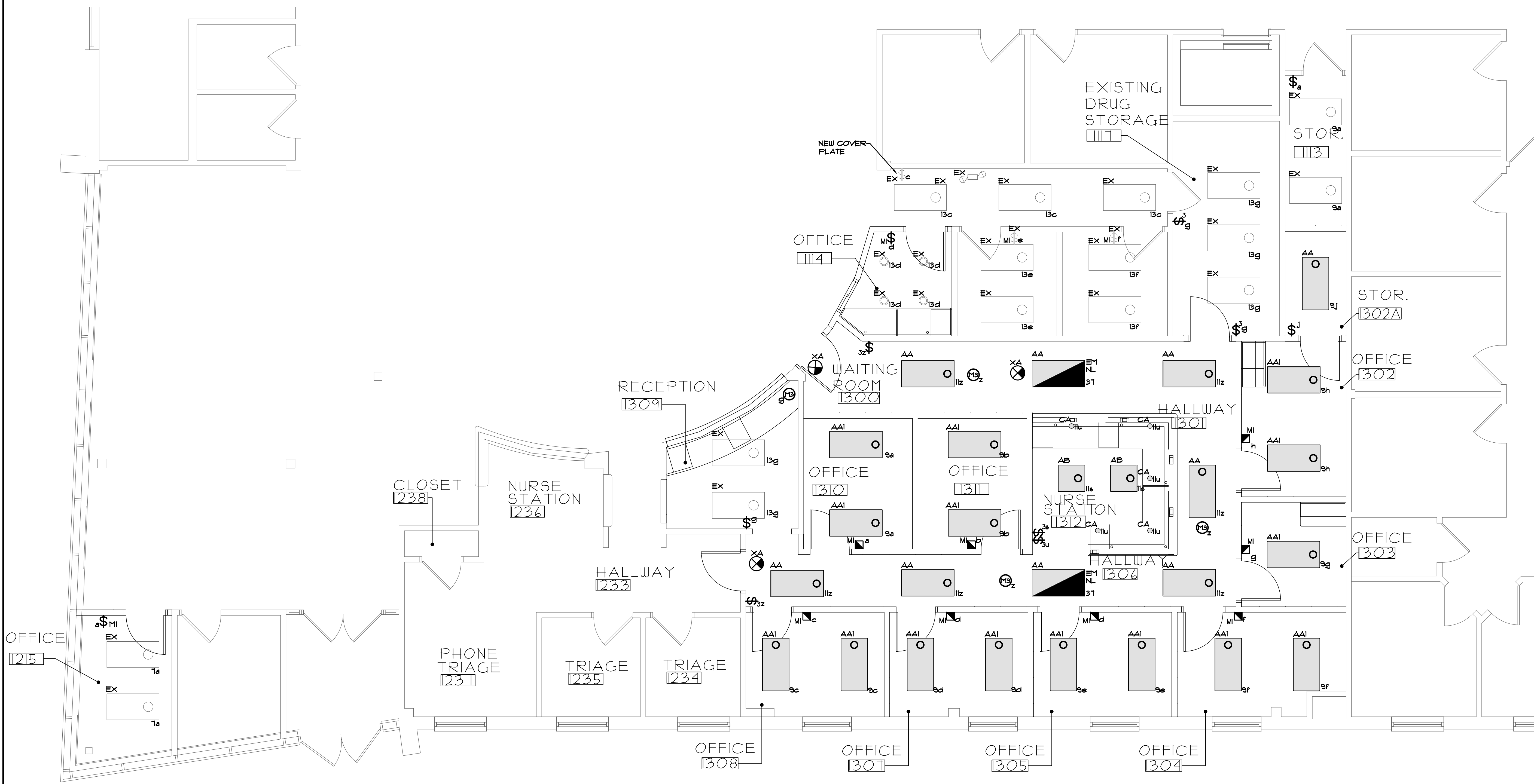
DATE: 7/21/2022
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PROJECT NO.
 2202-02

SHEET NUMBER

E1

OF 4 SHEETS



ELECTRICAL FIRST FLOOR LIGHTING PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



GENERAL NOTES

1. CIRCUITING NUMBERS AS SHOWN ARE FOR CIRCUITING INTENT ONLY. UTILIZE EXISTING SPARES MADE AVAILABLE FROM DEMOLITION WORK FOR NEW CIRCUITING. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
2. CIRCUIT ALL NEW DEVICES WITH PREFIX 'R2' TO EXISTING PANEL RP2.
3. CIRCUIT ALL NEW DEVICES WITH PREFIX 'R3' TO EXISTING PANEL RP3.
4. CIRCUIT ALL NEW DEVICES WITH PREFIX 'R6' TO EXISTING PANEL RP6.
5. REFER TO LOW VOLTAGE SPECIFICATIONS FOR ADDITIONAL STRUCTURED CABLING, WIRING AND CIRCUITING INFORMATION.

SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. PART OF LENCORE CLASSIC SOUND MASKING SYSTEM. SEE SYMBOL LIST FOR OTHER COMPONENTS. CONTACT TONY (ANTHONY.BLABZCZYK@GRAYBAR.COM) FOR SYSTEM QUOTE. INCLUDE SYSTEM UNDER ALTERNATE 1.
3. PROVIDE THESE DUPLEX RECEPTACLES UNDER BASE BID ONLY. DELETE UNDER ALTERNATE 1.

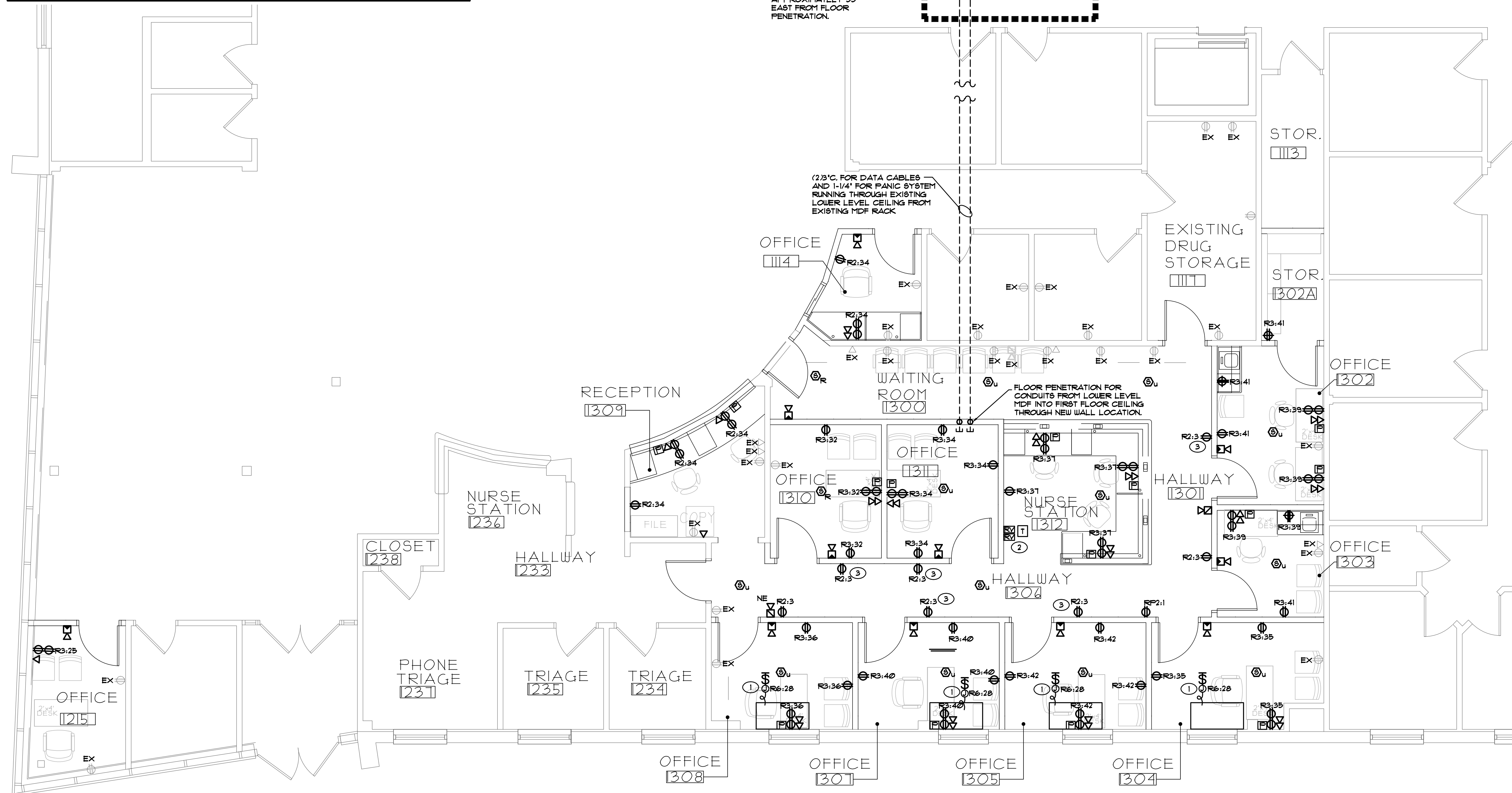
EX. PANEL RP6 - 120/208V, 3PH, 4W, 200A-MCB
 EX. PANEL RP3 - 120/208V, 3PH, 4W, 200A-MCB
 EX. PANEL LFB - 120/208V, 3PH, 4W, 200A-MCB

BASEMENT MDF WHERE UNDERGROUND DATA CABLES ARE BEING FED FROM NEW PATCH PANEL IN EXISTING RACK. CONDUIT AND CABLE APPROXIMATELY 55' EAST FROM FLOOR PENETRATION.

EXISTING MDF RACK. FIELD VERIFY EXACT LOCATION.

(2)2"Ø FOR DATA CABLES AND 1-1/4"Ø FOR PANIC SYSTEM RUNNING THROUGH EXISTING LOWER LEVEL CEILING FROM EXISTING MDF RACK

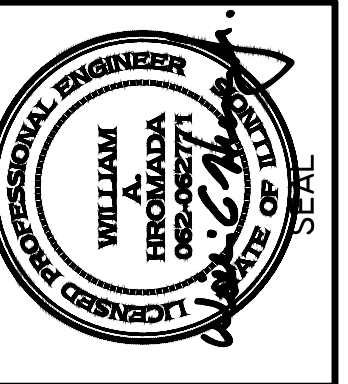
FLOOR PENETRATION FOR CONDUITS FROM LOWER LEVEL MDF INTO FIRST FLOOR CEILING THROUGH NEW WALL LOCATION.



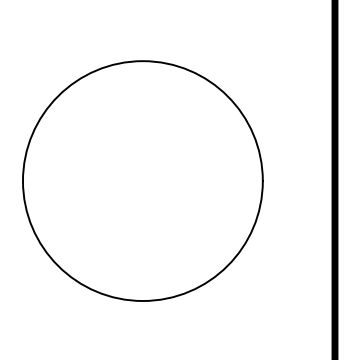
ELECTRICAL FIRST FLOOR POWER PLAN
 SCALE: 1/4" = 1'-0"
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OF 4 SHEETS

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMP							C/B	C	MC	EC		
ERH-1	CEILING MOUNTED 2x2 RADIANT HEATER	400	-	-	-	3.1	15	120	1	VARIABLE	VARIABLE	20A/1P	2 #12 4 #12 GRD.	3/4"	-	X		

ELECTRICAL ABBREVIATIONS

NOTE:
ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI SECTION 01420 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS	KVA	KILOVOLT AMPERE
AC	AIR CONDITIONING	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
BRKR	BREAKER	NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
C	CONDUIT	NIC	NOT IN CONTRACT
CH	CABINET HEATER	NL	NIGHTLIGHT
CKT	CIRCUIT	NTS	NOT TO SCALE
DISTR	DISTRIBUTION	O/C	ON CENTER
EF	EXHAUST FAN	P	POLE
ELEC	ELECTRICAL	FNL	PANEL
EM	EMERGENCY	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	R/R	REMOVE AND RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE TO BE REMOVED	SU	SWITCH
EX	EXISTING DEVICE TO REMAIN	TYP	TYPICAL
F	FUSE	UN	UNLESS OTHERWISE NOTED
FS	FUSIBLE SWITCH	V	VOLTS
G	GROUND	V/F	VERIFY IN FIELD
GFI	GROUND FAULT INTERRUPTING PROTECTION	W	WATTS
GRC	GALVANIZED RIGID CONDUIT	WP	WEATHERPROOF TYPE DEVICE
HP	HORSEPOWER	WG	WIRE GUARD
J	JUNCTION BOX	FI	FURNISH AND INSTALL

INTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
AA		2'x4' LED FLAT PANEL FIXTURE	LITHONIA #EPANL-2X4-3400LM-35K-80CRI-EZI-MVOLT-XX METALUX #2FFP3235C COLUMBIA #SRF24-35HLG-EDII	120 VOLT	LED 3500 K MIN 3400LM MAX 39W	RECESSED LAY-IN	
AAI		2'x4' LED FLAT PANEL FIXTURE	LITHONIA #EPANL-2X4-4800LM-35K-80CRI-EZI-MVOLT-XX METALUX #2FFP3235C COLUMBIA #SRF24-35HLG-EDII	120 VOLT	LED 3500 K MIN 3400LM MAX 45W	RECESSED LAY-IN	
AB		2'x2' LED FLAT PANEL FIXTURE	LITHONIA #CPANL-2X2-4400LM-35K-80CRI-EZI-MVOLT-XX METALUX #2FFP3235C COLUMBIA #SRF22-35HLG-EDII	120 VOLT	LED 3500 K MIN 4400LM MAX 39W	RECESSED LAY-IN	
CA		6' ROUND LED DOWNLIGHT	LITHONIA #LDN6-35-10-L86-AR-L86-MVOLT-EZI HALO #MC610DD010 HM612035 61MDC PRESCOLITE #LTR-6RD-H-8L10L-DM/LTR-6RD-T -8L-35K81D-85/B24	120 VOLT 0-10V DIM	LED 3500 K MIN 1000LM MAX 12W	RECESSED LAY-IN GYFSUM	-VERIFY FINISH WITH ARCHITECT.
XA		SINGLE FACE EXIT SIGN	LITHONIA EDG-XX-1-G SERIES SURE-LITE EUSTOR SERIES DUAL-LITE OR APPROVED EQUAL	120 VOLT	LED MAX 5W	CEILING/ WALL	-FURNISH WITH ARROWS AS REQD BY CODE -COORD. MOUNTING STYLES WITH LOCATIONS ON DRAWINGS
EM		FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER	FIXTURES LESS THAN 10000 LM: BODINE FACTORY INSTALLED BATTERY OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED) FIXTURES GREATER THAN 10000 LM: MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)	120/211 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR -INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS
NL		CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE					

MASTER SYMBOL LIST

COMMUNICATIONS

- TWO GANG, DEEP BACK BOX FOR DATA OUTLET - WITH 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" AFF. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED.
- SOUND MASKING ABOVE-CEILING SPEAKERS - LENCORE CLASSIC RCVC UP-FIRING UNIVERSAL. REFER TO SHEET NOTES FOR ADDITIONAL INFORMATION. INCLUDED UNDER ALTERNATE 1.
- SOUND MASKING ABOVE-CEILING SPEAKERS - LENCORE CLASSIC SPEAKER MODEL LM6 UP-FIRING UNIVERSAL. REFER TO SHEET NOTES FOR ADDITIONAL INFORMATION. INCLUDED UNDER ALTERNATE 1.
- SOUND MASKING VOLUME CONTROL - REMOTE CENTRAL VOLUME CONTROL UNIT (RCVC) WALL MOUNTED AT 48" AFF. CONNECT 1/2" CABLING TO ZONE SPEAKERS PER MANUFACTURER DRAWINGS. INCLUDED UNDER ALTERNATE 1.
- TYPICAL PANIC BUTTON BOX - WITH 3/4" CONDUIT TO ACCESSIBLE CEILING LOCATION.

LIGHTING

- EMERGENCY BATTERY LIGHT MOUNTED 1'-6" AF (OR AS NOTED)
- REMOTE EMERGENCY BATTERY LIGHT MOUNTED 1'-6" AFF (OR AS NOTED)
- FIXTURE ON EMERGENCY CIRCUIT (EM/NL) WITH 90 MINUTE, FULL LUMEN OUTPUT BATTERY UNIT OR INVERTER, BODINE #B30 (FLUORESCENT), BODINE FACTORY INSTALLED DRIVER (LED) OR MYERS LV SERIES INVERTER (FLUORESCENT OR LED). REMOTE MOUNT IN ACCESSIBLE CEILING WHERE INTERNAL INSTALLATION IS NOT POSSIBLE (PROVIDE TEST SWITCH & ALL NECESSARY AFFURTENANCES).

FIRE ALARM

- FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80' AF. OR 6' BELOW FINISHED CEILING WHICHEVER IS LOWER. - 110 CANDELA
- FIRE ALARM STROBE ONLY MTD 80' AFF. - 15 CANDELA
- FIRE ALARM STROBE ONLY MTD 80' AFF. - 75 CANDELA
- FIRE ALARM STROBE ONLY MTD 80' AFF. - 110 CANDELA
- FIRE ALARM STROBE ONLY MTD 80' AFF.

EQUIPMENT AND WIRING

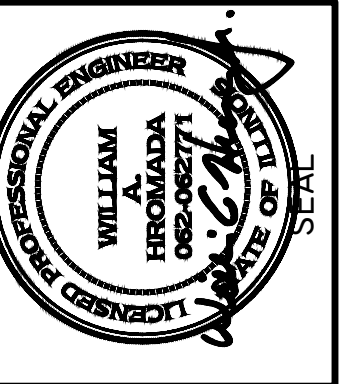
- SOUND MASKING TRANSFORMER - SIZE AND TYPE AS REQUIRED. INCLUDED UNDER ALTERNATE 1.
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- FLEX CONDUIT CONNECTION
- MANUAL STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION
- CONDUIT STUB INTO ACCESSIBLE CEILING SPACE TERMINATE W/ INSULATING BUSHING

SWITCHING

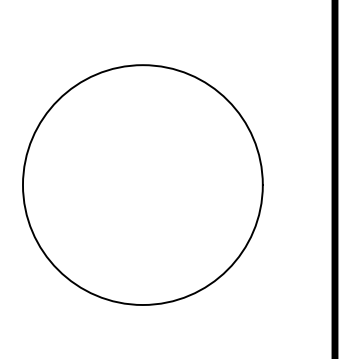
- FURNISH AND INSTALL TWO BUTTON ON/OFF SWITCH MTD 42" AFF. SENSORSWITCH #SPDHI OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. PROVIDE WITH POWER PACK AS REQUIRED FOR CONTROL OF FIXTURES.
- FURNISH AND INSTALL TWO BUTTON ON/OFF 3-WAY SWITCH MTD 42" AFF. SENSORSWITCH #SPDHI OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. PROVIDE WITH POWER PACK AS REQUIRED FOR CONTROL OF FIXTURES.
- WALL MOUNTED 0-10V DIMMER SWITCH MTD 42" AFF. SENSORSWITCH, COOPER OR HUBBELL CONTROLS. VERIFY SUITABILITY OF DIMMER WITH FIXTURE MANUFACTURER PRIOR TO ORDERING.
- FURNISH AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH #CH1-PDT-10-MP-20 (WITH MICROPHONICS) OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. SENSOR SHALL BE PROGRAMMED FOR MANUAL ON UNLESS OTHERWISE NOTED.
- FURNISH AND INSTALL NETWORKED WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR MTD 42" AFF. N-LIGHT #NWX-PDT-LV OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS.
- FURNISH AND INSTALL NETWORKED WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR MTD 42" AFF. N-LIGHT #LIGHT NWX-LV-DX-WH OR EQUAL BY COOPER OR HUBBELL CONTROLS.

RECEPTACLES

- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #362 OR EQUAL).
- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 42" AFF. OR 2' ABOVE BACKSPASH IF LOCATED ABOVE COUNTER) (HUBBELL #362 OR EQUAL).
- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED AT SPECIAL HEIGHT - COORDINATE IN FIELD) (HUBBELL #362 OR EQUAL).
- 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH GFI. PROTECTION (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #GF20 OR EQUAL).
- 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH GFI. PROTECTION (MOUNTED 42" AFF. OR 2' ABOVE BACKSPASH IF LOCATED ABOVE COUNTER) (HUBBELL #GF20 OR EQUAL).
- SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS).



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WILL COUNTY COMMUNITY HEALTH CENTER
1106 NEAL AVENUE
JOLIET, ILLINOIS

DATE: 7/21/2022
REVISED:

PROJECT NO.
2202-02

SHEET NUMBER

E3

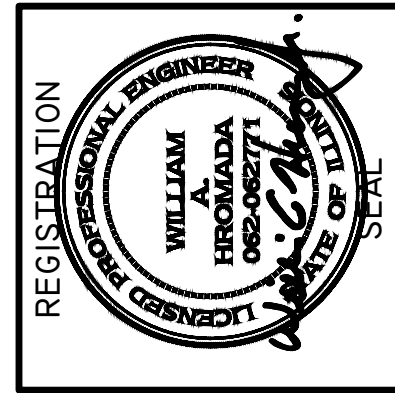
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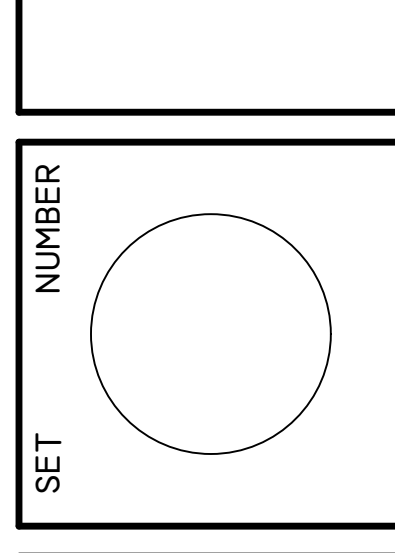
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SPECIFICATIONS

<p>26000 BASIC ELECTRICAL REQUIREMENTS</p> <p>1. GENERAL</p> <p>1.0 RELATED DOCUMENTS</p> <p>A. THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS ARE APPLICABLE TO EACH CONTRACT FOR THE PROJECT.</p> <p>1.1 DESCRIPTION OF WORK</p> <p>A. FURNISH AND INSTALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ELECTRICAL SERVICES AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC - INSTALL FIXTURES, DEVICES, EQUIPMENT AND CONDUITS TO MEET ACTUAL FIELD CONDITIONS.</p> <p>2. SHOP DRAWINGS</p> <p>2.0 DRAWINGS TO BE SUBMITTED (SIX COPIES UNLESS DIGITAL) FOR FIXTURES, EQUIPMENT, DEVICES AND MATERIALS WITHIN 30 DAYS OF CONTRACT AWARD FOR REVIEW. ALLOW FOR 10 BUSINESS DAYS ENGINEER REVIEW TIME.</p> <p>2.1 A NOTATION SHALL BE MADE ON EACH SHOP DRAWING SUBMITTED AS TO THE ITEMS SPECIFIC USE, EITHER BY A PARTICULAR TYPE NUMBER REFERENCED ON THE DRAWINGS OR BY A DESCRIPTION OF ITS SPECIFIC LOCATION.</p> <p>2.2 THE ARCHITECT/ENGINEER SHALL HAVE THE FINAL AUTHORITY AS TO WHETHER THE FIXTURE IS EQUAL TO THE SPECIFIED ITEM. THE PROPOSED SUBSTITUTION MAY ALSO BE REJECTED FOR THE AESTHETIC VALUE IF FELT NECESSARY OR DESIRABLE. IN THE EVENT THE PROPOSED SUBSTITUTIONS DESCRIBED ARE REJECTED, THE CONTRACTOR SHALL FURNISH THE SPECIFIED ITEM.</p> <p>3. CODES AND STANDARDS</p> <p>3.0 CODES, WORK AND MATERIALS SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC), STATE, LOCAL, MUNICIPAL, ELECTRICAL CODES AND BUILDING ORDINANCES, AS WELL AS ADOPTED NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND STANDARDS. MATERIALS SHALL BE IN COMPLIANCE LISTED WITH A NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS UL OR ETL.</p> <p>4. PERMITS AND FEES</p> <p>4.0 OBTAIN AND PAY FOR REQUIRED LICENSES, PERMITS AND INSPECTIONS FOR THE WORK REQUIRED. CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.</p> <p>5. MATERIALS AND WORKMANSHIP</p> <p>5.0 MATERIALS SHALL BE NEW AND OF THE QUALITY SPECIFIED. MATERIALS SHALL BE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH EQUIPMENT AND SHALL BE THE MANUFACTURER'S LATEST STANDARD DESIGN. ELECTRICAL MATERIAL AND EQUIPMENT USED IN THE WORK SHALL MEET THE REQUIREMENTS AS SPECIFIED UNDER PARAGRAPH THREE OF THIS SECTION, CODES AND STANDARDS.</p> <p>5.1 WORK INSTALLED SHALL BE PERFORMED IN A WORKMANSHIP-LIKE MANNER AND BE COMPLETE IN BOTH EFFECTIVENESS AND APPEARANCE. CONCEALED OR EXPOSED, AND SHALL BE EXECUTED BY EXPERIENCED TRADESMEN OF THE APPROPRIATE TRADES.</p> <p>6. INSTALLATION METHODS</p> <p>6.0 CONDUCTORS SHALL BE INSTALLED IN CONCEALED RACEWAYS EXCEPT AS SHOWN OR SPECIFIED ON THE CONTRACT DOCUMENTS. EXPOSED CONDUITS AND WIRES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING SURFACES. CONDUITS AND WIRES IN THE SPACE ABOVE CEILINGS SHALL BE SUPPORTED ADEQUATELY AND NOT LAD ON THE TOP OF CEILING SYSTEMS. CONDUITS AND WIRES INSTALLED ABOVE CEILINGS SHALL BE CONSIDERED EXPOSED.</p> <p>6.1 ELECTRICAL CONDUITS SHALL NOT BE HUNG ON HANGERS WITH ANY OTHER SERVICE FOREIGN TO THE ELECTRICAL SYSTEMS, NOR SHALL THEY BE ATTACHED TO OTHER FOREIGN SERVICES.</p> <p>6.2 THE LIGHTING AND POWER BRANCH CIRCUIT CONDUCTORS SHALL BE INSTALLED IN SEPARATE RACEWAY SYSTEMS UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.</p> <p>6.3 OUTLET BOX LOCATIONS, OUTLET BOXES SHALL BE LOCATED SO THEY ARE NOT PLACED BACK-TO-BACK IN THE SAME WALL IN ORDER TO LIMIT SOUND TRANSMISSION FROM ROOM TO ROOM.</p> <p>6.4 LIGHTING SYSTEM CONTROL DEVICES</p> <p>A. CONTRACTOR SHALL ENSURE FINAL INSTALLATION IS FULLY FUNCTIONAL AND EACH COMPONENT IS COMPATIBLE WITH ALL OTHER DEVICES. WHERE NECESSARY, CONTRACTOR SHALL ADJUST THE INSTALLATION DURING STARTUP TO REPLACE INCOMPATIBLE LIGHTING SOURCES, DIMMERS, ETC., TO ENSURE FULLY FUNCTIONALITY IS ACHIEVED.</p> <p>6.5 WIRING - NUMBER OF WIRES REQUIRED</p> <p>A. THE NUMBER OF WIRES FOR LIGHTING AND RECEPTACLE BRANCH CIRCUITS IS NOT SHOWN ON THE DRAWINGS. THE NUMBER OF WIRES IN ANY CIRCUIT SHALL BE DETERMINED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND WIRING SHALL BE PROVIDED TO PERFORM ALL FUNCTIONS OF THE DEVICES BEING INSTALLED. ADDITIONALLY, WIRES SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DOCUMENTS, I.E. EQUIPMENT GROUNDS, ETC. PROVIDE THE NUMBER OF WIRES REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.</p> <p>6.6 PAINTING, FINISHING</p> <p>A. PAINTING OF ELECTRICAL WORK EXPOSED IN OCCUPIED SPACES, EXCEPT MECHANICAL AND ELECTRICAL MACHINE ROOMS AND MAINTENANCE/SERVICE SPACES, AND WORK EXPOSED ON THE EXTERIOR IS SPECIFIED AND PERFORMED UNDER OTHER DIVISIONS OF THESE SPECIFICATIONS.</p> <p>B. FACTORY FINISHES, SHOP PRIMING, AND SPECIAL PROTECTIVE COATINGS ARE SPECIFIED IN THE INDIVIDUAL EQUIPMENT SPECIFICATION SECTIONS.</p> <p>C. WHERE FACTORY FINISHES ARE PROVIDED ON EQUIPMENT AND NO ADDITIONAL FIELD PAINTING IS SPECIFIED, MARRED OR DAMAGED SURFACES SHALL BE TOUCHED UP OR REFINISHED SO AS TO LEAVE A SMOOTH, UNIFORM FINISH AT THE TIME OF FINAL INSPECTION.</p> <p>6.7 SLEEVES, SEALS</p> <p>A. INSTALL MANUFACTURED FLOOR AND THRUWALL SEALS, SIMILAR TO TYPE "FSK" AS MANUFACTURED BY O.Z. ELECTRIC MANUFACTURING COMPANY.</p> <p>B. SEALS SHALL BE PROVIDED AROUND CONDUITS AND CABLES WHICH PENETRATE SMOKE WALLS, FIRE WALLS, AND FLOORS. NELSON FLAMESEAL, 3M, OZ GEDNEY OR APPROVED EQUAL UL LISTED SYSTEM SHALL BE USED TO SEAL PENETRATIONS OF ELECTRICAL CABLES AND CONDUITS.</p> <p>6.8 ADJUSTING, ALIGNING, AND TESTING</p> <p>A. ADJUST, ALIGN, INSPECT, AND TEST ELECTRICAL EQUIPMENT FURNISHED AND INSTALLED INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS FOR INSTALLATION OR WIRING UNDER THIS DIVISION FOR PROPER OPERATION. TEST SYSTEMS AND EQUIPMENT ACCORDING TO THE REQUIREMENTS OF NETA ATS (LATEST EDITION) AND ANY ADDITIONAL REQUIREMENTS SPECIFIED HEREIN.</p> <p>B. MAINTAIN THE FOLLOWING ON THE PROJECT PREMISES: A RMS (TRUE) READING VOLTMETER, A TRUE RMS READING AMMETER, AS WELL AS A MEGOHMMETER INSULATION RESISTANCE TESTER. PROVIDE TEST DATA READINGS AS REQUESTED OR AS REQUIRED BY THE ENGINEER.</p> <p>6.9 PROTECTION</p> <p>A. PROTECTION OF EXISTING EQUIPMENT AND FACILITIES SHALL BE PROVIDED AND COORDINATED WITH THE OWNER.</p> <p>7. ELECTRICAL-MECHANICAL EXTENT OF WORK</p> <p>7.0 THE RESPONSIBILITY OF WORK SPECIFIED UNDER TRADES IS CLARIFIED WITH THE GENERAL CONDITIONS, ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. CONTRACTOR IS TO COORDINATE ALL ELECTRICAL REQUIREMENTS PRIOR TO ORDERING POWERED MECHANICAL EQUIPMENT. GENERAL CONDITIONS AND RESPONSIBILITIES ARE INCORPORATED HEREIN BY REFERENCE.</p> <p>8. CUTTING AND PATCHING</p> <p>8.0 CUTTING AND PATCHING WHICH MUST BE DONE, IN ORDER THAT THE ELECTRICAL WORK MAY BE PROPERLY INSTALLED, SHALL BE DONE BY APPROPRIATE TRADESMEN. DISTURBED CONSTRUCTION, SURFACES OR FINISHES MUST BE REPLACED OR REPAIRED TO THE ARCHITECT'S SATISFACTION AT THIS CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCES SHALL STRUCTURAL WORK BE CUT EXCEPT UPON APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.</p> <p>9. PLENUM</p> <p>9.0 SOME OR ALL CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL OPENINGS AROUND CONDUIT, CABLE, ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.</p> <p>10. COORDINATION</p> <p>10.0 COORDINATE THE LOCATIONS AND PURCHASING OF EQUIPMENT BETWEEN OTHER TRADES TO ENSURE PROPER INTERFACING AND PLACEMENT OF EQUIPMENT REQUIRING ELECTRICAL POWER AND/OR LOW VOLTAGE CONNECTIVITY.</p> <p>10.1 COOPERATE FULLY WITH OTHER TRADES. DO WORK NORMALLY DONE BY THE ELECTRICAL TRADES OR REQUIRED BY LOCAL JURISDICTIONAL RULINGS, WHETHER SPECIFICALLY INDICATED OR NOT.</p> <p>10.2 COORDINATE OTHER WORK OF THE DIFFERENT TRADES SO THAT:</p> <p>A. INTERFERENCE BETWEEN MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL WORK, INCLUDING EXISTING SERVICES, IS AVOIDED.</p> <p>B. WITHIN THE LIMITS INDICATED ON THE DRAWINGS, THE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL AND TESTING OF ELECTRICAL, AND OTHER EQUIPMENT WILL BE PROVIDED.</p> <p>C. PIPE, CONDUITS, DUCTS, AND SIMILAR ITEMS SHALL BE KEPT AS CLOSE AS POSSIBLE TO CEILINGS, WALLS, COLUMNS, TO TAKE UP A MINIMUM AMOUNT OF SPACE. PIPES, CONDUITS, DUCTS, AND SIMILAR ITEMS SHALL BE LOCATED SO THAT THEY WILL NOT INTERFERE WITH THE INTENDED USE OF OTHER EQUIPMENT.</p> <p>10.3 ANY CHANGES IN THE LOCATION OF THE EQUIPMENT, ETC., FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT CHARGE IF SO DIRECTED BY THE ARCHITECT/ENGINEER/OWNER BEFORE INSTALLATION.</p> <p>10.4 COORDINATE ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) WITH OTHER TRADES TO AVOID CONFLICTS.</p> <p>10.5 REFER TO PLANS OF OTHER TRADES FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE.</p>	<p>10.6 LAYOUT IS DIAGRAMMATIC AND CONTRACTOR SHALL INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS.</p> <p>10.7 CONDUIT LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUNDED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.</p> <p>10.8 VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION SYSTEMS, PLUMBING AND OTHER SERVICES PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED BY OTHERS.</p> <p>11. AS-BUILT DRAWINGS</p> <p>12.0 CONTRACTOR SHALL PROVIDE THE OWNER AS-BUILT DRAWINGS FOR SYSTEMS INCLUDING ELECTRICAL AND SPECIAL SYSTEMS DESCRIBED IN SPECIFICATIONS. THIS SHALL CONSIST OF DRAWINGS, WIRING SCHEMATICS, AND DIAGRAMS FOR THE FIRE ALARM, TELEPHONE AND DATA SYSTEMS, AS WELL AS, ANY CHANGE TO THE SYSTEMS SHOWN ON THE DRAWINGS.</p> <p>12.1 PROVIDE OWNER IN A BOUND FORM TWO (2) SETS OF OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS, INCLUDING INFORMATION ON SPARE PARTS, LUBRICATION SCHEDULE, WIRING DIAGRAMS, ETC., FOR MATERIALS AND EQUIPMENT. PROVIDE OWNER TWO (2) SETS OF ACCURATELY MARKED "AS BUILT" PRINTS, AND ELECTRONIC FILE OF AS-BUILTS.</p> <p>12. WARRANTY</p> <p>12.0 WARRANTY ANY DEFECTS TO EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER. DEFECTIVE FIXTURES, EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. GUARANTEE THAT WORKMANSHIP IS OF HIGH QUALITY AND THAT EQUIPMENT IS INSTALLED TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS. CONTRACTOR SHALL CONDUCT, AT NO COST TO THE OWNER, TESTS ON ANY EQUIPMENT FURNISHED WHEN SO REQUESTED BY THE ARCHITECT OR HIS REPRESENTATIVE WITHIN THE ONE YEAR PERIOD.</p> <p>260503 WORK IN EXISTING CONDITIONS</p> <p>1. GENERAL REQUIREMENTS</p> <p>1.0 VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF DEMOLITION WORK. CONTRACTOR SHALL INCLUDE IN HIS BID NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF HIS WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY WORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.</p> <p>1.1 CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING CEILINGS REQUIRED FOR INSTALLATION OF NEW WORK. CONTRACTOR SHALL RECORD ANY CEILING MATERIALS WITH EXISTING DAMAGE PRIOR TO START OF WORK. CONTRACTOR IS TO REINSTALL CEILING UPON COMPLETION OF WORK AND REPAIR ANY NEWLY DAMAGED CEILING MATERIALS TO MATCH ADJACENT EXISTING SURFACES.</p> <p>1.2 EXISTING UTILITIES WITHIN THE CONTRACT LIMITS SHALL BE REROUTED AND/OR ABANDONED AS SHOWN ON THE DRAWINGS AND AS REQUIRED.</p> <p>1.3 CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED) WHERE NECESSARY TO PERFORM CONTRACTORS' WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER DRYWALL, ETC. COORDINATE WITH OTHER TRADES' WORK IN ANY CEILING SPACE SO AS TO MINIMIZE THE CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. CONTRACTOR SHALL REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE IN HIS BID ANY CEILING WORK NECESSARY FOR CONTRACTORS' WORK ON THE PROJECT. WHEN WORK IS COMPLETED IN THE SPACE, TRADE CONTRACTOR SHALL REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. EACH CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS CAUSED BY THIS CONTRACTOR.</p> <p>1.4 SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING FIRE ALARM AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 7 DAYS IN ADVANCE AND OBTAIN WRITTEN APPROVAL FROM OWNER PRIOR TO ANY SHUTDOWN OF EXISTING SYSTEMS.</p> <p>1.5 ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.</p> <p>1.6 WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.</p> <p>1.7 EXISTING CIRCUITRY NOT INTERRUPTED BY THE WORK SHALL REMAIN AS IS UNLESS SPECIFICALLY NOTED OTHERWISE.</p> <p>1.8 EXISTING CIRCUITRY (TO REMAIN) INTERRUPTED BY THE WORK SHALL BE PROPERLY RECONNECTED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.</p> <p>1.9 EXISTING CONDUIT MAY BE REUSED (CONTRACTOR'S OPTION) WHEREVER POSSIBLE. REMOVE EXISTING BRANCH CIRCUIT WIRING AND INSTALL NEW AS SHOWN OR AS REQUIRED WHERE CIRCUITS ARE INTERRUPTED AND TO BE EXTENDED TO PANELS.</p> <p>1.10 CONTRACTOR SHALL PROVIDE NEW PANEL DIRECTORIES IN EXISTING PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.</p> <p>1.11 WHERE CONDUITS ARE TO BE INSTALLED IN EXISTING WALLS, CUT A SUITABLE CHASE FOR PROPERLY CONCEALING CONDUIT, FITTINGS AND OUTLET BOXES, EXCEPT THAT WHEREVER POSSIBLE, USE EXISTING VOIDS TO FISH CONDUITS DOWN WALLS. CUT OPENINGS FOR BOXES AS REQUIRED, EXERCISING CARE TO PRESERVE EXISTING FINISHES.</p> <p>260503 ELECTRICAL DEMOLITION</p> <p>1. GENERAL REQUIREMENTS</p> <p>1.0 REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED BY THIS CONTRACTOR'S WORK. THIS CONTRACTOR SHALL REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.</p> <p>1.1 EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT AND LIGHTING FIXTURES SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.</p> <p>1.2 EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY FOR REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.</p> <p>1.3 DENERGIZE AFFECTED CIRCUITS AND REMOVE ELECTRICAL EQUIPMENT, DEVICES, FIXTURES, CONDUIT, WIRING, ETC. CAREFULLY REMOVE ITEMS.</p> <p>1.4 DISCONNECT ELECTRICALLY OPERATED EQUIPMENT WHERE REMOVAL BY ANOTHER CONTRACTOR IS REQUIRED.</p> <p>260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS</p> <p>1. OUTLET BOXES</p> <p>1.0 FURNISH AND INSTALL OUTLET BOXES, PULL BOXES, AND CONDUIT FITTINGS AS DESCRIBED BELOW. CATALOG NUMBERS SHOWN ARE APPLETON ELECTRICAL COMPANY. EQUAL MATERIALS BY STEEL CITY, O.Z., AND RACO, ARE ACCEPTABLE.</p> <p>A. LIGHTING BOXES (CONCEALED) NO. 40-3/4</p> <p>B. LIGHTING BOXES (EXPOSED) 4S-3/4 OR 40-3/4</p> <p>C. FLUSH SWITCHES, RECEPTACLES NO. 4S-3/4 2.125" DEEP (WITH BOX COVERS) (PROVIDE EXTENSION RING OR PLASTER RING AS REQUIRED)</p> <p>D. SWITCH, RECEPTACLE AND TELEPHONE-BOXES (EXPOSED) 4S-3/4 2.125" DEEP WITH 8360 OR 8370 SERIES RAISED SURFACE COVER.</p> <p>1.1 OUTLET BOXES SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE IN REGARD TO THE ALLOWABLE FILL.</p> <p>2. PULL BOXES</p> <p>2.0 PULL BOXES SHALL BE FABRICATED OF CODE GAUGE GALVANIZED SHEET METAL AND SHALL BE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS, OR AS SHOWN ON THE DRAWINGS. PROVIDE REMOVABLE COVER ON THE LARGEST ACCESS SIDE OF THE BOX. IN-LINE CONDUIT PULL BOXES MAY BE O.Z., TYPE PBW, OR EQUAL.</p> <p>3. RACEWAYS AND FITTINGS (ONLY PRODUCT LISTED SHALL BE ALLOWED)</p> <p>3.0 RACEWAYS SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE. WIREMOLD (OR EQUAL) SHALL BE USED ONLY AFTER OWNER'S APPROVAL. WIREMOLD SHALL BE PAINTED TO MATCH WALLS, OR IN ACCORDANCE WITH THE ARCHITECT'S DIRECTION.</p> <p>3.1 THE USE OF EMT IS PERMITTED IN INTERIOR PARTITIONS AND ABOVE SUSPENDED CEILINGS. THE USE OF RMC AND IMC IS PERMITTED IN INSTALLATIONS BELOW GRADE AND LOCATIONS REQUIRING MECHANICAL PROTECTION.</p> <p>3.2 FMC SHALL BE USED IN LENGTHS 5 FT OR LESS FOR FINAL CONNECTIONS TO VIBRATING EQUIPMENT IN DRY LOCATIONS. LFMC SHALL BE USED IN LENGTHS OF 6 FT OR LESS FOR FINAL CONNECTIONS TO VIBRATING EQUIPMENT IN WET LOCATIONS. THE USE OF RNC IS PERMITTED ONLY WHERE INDICATED ON PLANS. (VERIFY WITH LOCAL GOVERNING CODES PRIOR TO INSTALLATION.)</p> <p>3.3 MINIMUM CONDUIT SIZE SHALL BE 3/4" EMT; MINIMUM IMC OR RIGID H.W. CONDUIT SIZE TO BE 3/4". (VERIFY WITH LOCAL GOVERNING CODES PRIOR TO INSTALLATION.)</p> <p>3.4 COUPLINGS AND CONNECTORS SHALL BE COMPRESSION OR SET SCREW TYPE AND SHALL BE MADE UP MECHANICALLY</p>	<p>SECURE AND ELECTRICALLY CONTINUOUS. EXTERIOR FITTINGS SHALL BE WEATHERTIGHT.</p> <p>3.5 SURFACE MOUNTED PULL BOXES, OUTLET BOXES, ETC. SHALL HAVE SUPPORTS INDEPENDENT OF CONDUIT SYSTEM AND SECURELY ANCHORED TO THE STRUCTURE. THE ENTIRE CONDUIT SYSTEM SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. NO CONDUITS SHALL BE SUPPORTED FROM THE VENTILATING DUCTS, MECHANICAL PIPING OR THEIR HANGERS.</p> <p>3.6 WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.</p> <p>3.7 COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED WITH PERMANENT MARKINGS TO INDICATE PANEL AND CIRCUIT NUMBER. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED.</p> <p>260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS</p> <p>1. GENERAL REQUIREMENTS</p> <p>1.0 MINIMUM WIRE SIZE SHALL BE #12 THWN (OR THHN) SOLID COPPER; OVER 75' RUNS SHALL BE MINIMUM #10 THWN COPPER UNLESS NOTED OTHERWISE ON THE PLANS. WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS. CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.</p> <p>1.1 WIRES SHALL BE INSTALLED IN CONDUIT.</p> <p>1.2 CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. JUNCTION BOXES MAY BE USED WHERE REQUIRED.</p> <p>1.3 THE USE OF NON-METALLIC SHEATHED CABLE TYPE NM OR NMC, ARMORED-BUSHED CABLE (BX), METAL-CLAD CABLE (MC), AND ARMOR-CLAD CABLE (AC) IS PROHIBITED.</p> <p>2. GROUNDING</p> <p>2.0 GREEN GROUND CONDUCTOR SHALL BE INSTALLED IN EACH CONDUIT.</p> <p>2.1 GROUNDING AND BONDING OF ELECTRICAL CIRCUIT AND EQUIPMENT SHALL BE ACCOMPLISHED AS SET FORTH IN THE NEC. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER AND LIGHTING CONDUITS. SERVICES, DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.</p> <p>3. LOW VOLTAGE CIRCUIT PROTECTIVE DEVICES</p> <p>3.0 PROTECTIVE DEVICES AS SHOWN SHALL BE MOLDED CASE CIRCUIT BREAKERS, BUILT, TESTED AND UL LABELED PER UL 489 AND MATCH THE AIC RATING OF THE SPECIFIED EQUIPMENT.</p> <p>4.0 SAFETY SWITCHES</p> <p>4.0 FURNISH AND INSTALL HEAVY DUTY TYPE SAFETY SWITCHES HAVING THE ELECTRICAL CHARACTERISTICS, RATINGS AND MODIFICATIONS SHOWN ON THE DRAWINGS. SWITCHES SHALL BE NEMA 1 HEAVY DUTY (INDOOR) ENCLOSURES UNLESS OTHERWISE NOTED. HANDLE THAT IS PADLOCKABLE IN "OFF" POSITION, NON-FUSIBLE, POSITIVE QUICK-MAKE, QUICK-BREAK MECHANISM, AND BE UL APPROVED AND SHALL BEAR THE UL LABEL. SAFETY SWITCHES AT EQUIPMENT BEING FED FROM THE INITIAL SERVICE POINT (MOP OR MSWB) SHALL BE FUSED TYPE SAFETY SWITCHES.</p> <p>5. FUSES</p> <p>5.0 PROVIDE FUSES THAT CONFORM TO UL 198B, 198C, 198D, 198E, 198F, 198G, 198H, 198I, AND 198M. PROVIDE FUSES OF THE SIZES NOTED ON THE CONTRACT DOCUMENTS. CURRENT LIMITING FUSES SHALL BE INSTALLED IN LIEU OF REGULAR FUSES WHERE THE FAULT CURRENT EXCEEDS 10,000 RMS AMPERES. FUSES RATED OVER 600 AMPERES SHALL BE NEMA CLASS L. UNLESS OTHERWISE SPECIFIED, FUSES FOR USE WITH SWITCHES RATED 600 AMPERES AND LESS SHALL BE UL CLASS J. PROVIDE ONE COMPLETE SET OF FUSES INSTALLED FOR SWITCHES REQUIRING FUSES.</p> <p>6. MANUFACTURERS</p> <p>6.0 PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES, MOTOR CONTROLLERS, AND LOCK-OUT PUSHBUTTONS MANUFACTURED BY SQUARE D, Eaton, SIEMENS OR ABB ARE ACCEPTABLE. MAJOR COMPONENTS SHALL BE OF THE SAME MANUFACTURER.</p> <p>7. LIGHT FIXTURES</p> <p>7.0 FURNISH AND INSTALL LIGHT FIXTURES (UL LISTED) AS SHOWN ON THE DRAWINGS. VERIFY CEILING STYLE/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.</p> <p>7.1 RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH THERMAL PROTECTION PER N.E.C. FIXTURES SHALL BE IC RATED WHERE LOCATED IN DIRECT CONTACT WITH INSULATION.</p> <p>7.2 COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN). VERIFY LIGHTING WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.</p> <p>7.3 PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.</p> <p>7.4 PROVIDE PROPER AND SUFFICIENT SUPPORT FOR FIXTURES AS REQUIRED FOR THE TYPE OF CEILING CONSTRUCTION. RECESSED AND SEMI RECESSED FIXTURES MAY BE SUPPORTED FROM SUSPENDED CEILING SUPPORT SYSTEM CEILING TEES IF THE CEILING SYSTEM SUPPORT RODS OR WIRES ARE PROVIDED WITH A MINIMUM OF FOUR RODS OR WIRES PER FIXTURE AND LOCATED NOT MORE THAN 6" FROM EACH CORNER OF EACH FIXTURE, AND PROVIDE SUPPORT CLIPS SECURELY FASTENED TO CEILING GRID MEMBERS, A MINIMUM OF ONE AT OR NEAR EACH CORNER OF EACH FIXTURE.</p> <p>7.5 CONDUITS RUN TO RECESSED LAY-IN FIXTURES SHALL TERMINATE IN A SUITABLE BOX ADJACENT TO FIXTURE OPENING WITH FINAL CONNECTIONS TO FIXTURE MADE WITH FLEXIBLE CONDUIT.</p> <p>7.6 PROVIDE A COMPLETE CUT AND EMERGENCY LIGHTING SYSTEM WITH SEPARATE CONDUIT, WIRING, FIXTURES, AS INDICATED AND AS REQUIRED ON THE PLANS. DIRECTIONAL SIGNS AND EMERGENCY EGHS LIGHTING FIXTURES SHALL BE OF THE TYPE, STYLE AND LOCATION REQUIRED BY THE LOCAL ELECTRICAL INSPECTION DEPARTMENT.</p> <p>8. LIGHTING CONTROLS</p> <p>8.0 LINE VOLTAGE CONTROLS</p> <p>A. THE LIGHTING CONTROL SYSTEM SHALL BE A STAND ALONE SENSOR/SWITCH WIRE SYSTEM COMPLETE WITH OCCUPANCY SENSORS, POWER PACKS, EMERGENCY ACCESSORIES, ETC. SYSTEM TO BE PROVIDED WITH COMPONENTS AND ACCESSORIES AS REQUIRED TO PROVIDE FUNCTIONALITY PER THE CONTRACT DOCUMENTS.</p> <p>B. LIGHTING CONTROL EQUIPMENT WILL BE CONSIDERED FROM THE FOLLOWING MANUFACTURERS: HUBBELL CONTROLS, LEVITON OR COOPER CONTROLS. THE SUBMITTED LIGHTING CONTROL SYSTEM SHALL PROVIDE FULL LIGHTING CONTROL FUNCTIONALITY AS SPECIFIED.</p> <p>C. BECAUSE OF DIFFERENCES BETWEEN MANUFACTURERS, DETAILS, DIAGRAMS, AND SEQUENCES SHOWN ARE DIAGRAMMATIC AND MAY NOT SHOW ALL PARTS AND ACCESSORIES REQUIRED. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH LIGHTING CONTROL MANUFACTURER AND CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM AS SHOWN ON CONTRACT DOCUMENTS. VERIFY CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.</p> <p>D. NO EXTRAS SHALL BE ALLOWED AFTER BIDDING FOR NOT FULLY UNDERSTANDING THE SCOPE OF WORK INVOLVED OR TO FULLY ACCOMPLISH THE SWITCHING SCHEME SHOWN ON THE CONTRACT DOCUMENTS.</p> <p>E. LOW VOLTAGE CABLING SHALL BE PLENUM RATED. CABLING ROUTED IN ACCESSIBLE CONCEALED AREAS SHALL BE ROUTED NEATLY EXPOSED WITHIN J-HOOKS. CABLING LOCATED IN EXPOSED OR INACCESSIBLE CEILINGS SHALL BE CONCEALED IN NEATLY ROUTED CONDUIT. LOW VOLTAGE CABLING INSTALLATION SHALL FULLY MEET LOCAL CODE REQUIREMENTS.</p> <p>11. WIRING DEVICES</p> <p>11.0 WIRING DEVICES SHALL BE SUITABLE FOR INTENDED PURPOSE AND SHALL BE UL LISTED.</p> <p>11.1 PROVIDE GFCI AND/OR AFCI DEVICES AND CIRCUITS AS REQUIRED BY NEC AND LOCAL CODE AUTHORITIES.</p> <p>A. OUTLETS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS EXCEPT THAT WHERE PRACTICABLE, OUTLETS SHALL BE LOCATED IN CENTER OF PANELS OR TRIM OR OTHERWISE SYMMETRICALLY LOCATED TO CONFORM WITH DESIGN INTENT. OUTLETS INCORRECTLY INSTALLED SHALL BE CORRECTED. DAMAGED ITEMS OR DAMAGED FINISHES SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER.</p> <p>B. OUTLETS SHALL BE SET PLUMB OR HORIZONTAL AND SHALL EXTEND FLUSH TO THE FINISHED SURFACE OF THE WALLS, CEILING OR FLOOR.</p> <p>C. WHERE SHOWN ON THE DRAWINGS FURNISH AND INSTALL WIRING DEVICES INDICATED BY THE SYMBOLS. WIRING DEVICES SHALL BE PRODUCTS OF PASS & SEYMOUR, OR EQUAL. CATALOG NUMBERS SHOWN BELOW ARE PASS & SEYMOUR HARD USE SPECIFICATION GRADE. EQUAL DEVICES MANUFACTURED BY LEGRAND, HUBBELL, LEVITON, SHALL BE ACCEPTABLE.</p> <p>D. LINE VOLTAGE SWITCHES AND CONTROLS. LINE VOLTAGE SWITCHES SHALL BE BACK AND SIDE WIRED, HEAVY DUTY UNITS OF THE TYPE INDICATED AS FOLLOWS. COLOR TO BE SELECTED BY ARCHITECT AND EQUALS TO BE BY LEVITON, HUBBELL OR LEGRAND. IN GENERAL, SWITCHES FOR EMERGENCY SYSTEMS SHALL BE RED IN COLOR.</p> <p style="text-align: center;"> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">SINGLE POLE TOGGLE 20A-120/277V</td> <td style="width: 50%;">HUBBELL HBL1221 SERIES OR EQUAL</td> </tr> <tr> <td>SINGLE POLE TOGGLE - 3 WAY 20A-120/277V</td> <td>HUBBELL HBL1223 SERIES OR EQUAL</td> </tr> <tr> <td>COMBINATION WALL SWITCH/SENSOR</td> <td>SENSOR SWITCH #WSX-PDT SERIES OR EQUAL</td> </tr> <tr> <td>COMBINATION WALL SWITCH/DIMMER</td> <td>SENSOR SWITCH #WSX-PDT-D SERIES OR EQUAL</td> </tr> </table> </p> <p>E. RECEPTACLES. RECEPTACLES SHALL BE SIDE AND BACK WIRED, SELF-GROUNDING OF THE TYPE INDICATED AS FOLLOWS:</p> <p style="text-align: center;"> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">SIMPLEX RECEPTACLES 20A-125V (GROUNDING TYPE)</td> <td style="width: 50%;">HUBBELL 5361 SERIES OR EQUAL</td> </tr> <tr> <td>SPECIAL PURPOSE RECEPTACLE</td> <td>CONFIGURATION AS NOTED ON PLANS</td> </tr> </table> </p> <p>DUPLEX GFCI RECEPTACLE 20A-125V (GROUNDING TYPE) HUBBELL GFRST20 SERIES OR EQUAL</p> <p>DUPLEX CONVENIENCE RECEPTACLES 20A-125V (GROUNDING TYPE) HUBBELL 5362 SERIES OR EQUAL</p> <p>F. DEVICES. FURNISH AND INSTALL DEVICES AS WHITE COLOR.</p> <p>G. PLATES. FURNISH AND INSTALL WALL PLATES FOR WIRING DEVICES. PLATES FOR FLUSH DEVICES SHALL BE NYLON WHITE FINISHED. OVERSIZE PLATES ARE NOT ACCEPTABLE. WEATHERPROOF SWITCH PLATES SHALL BE CROUSE-HINDS DS185 TYPE. WHERE SWITCHES AND/OR RECEPTACLES ARE SHOWN ADJACENT TO EACH OTHER, PROVIDE A COMMON COVER PLATE FOR EACH GROUP OF DEVICES. COVER PLATES ARE NOT ALLOWED TO BE CUT.</p> <p>12. MOUNTING HEIGHTS</p> <p>12.0 MOUNTING HEIGHTS TO CENTER LINE OF BOX AND ABOVE FINISHED FLOOR FOR THE BELOW-NAMED ITEMS SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN. OTHER DEVICE MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE DRAWINGS.</p> <p style="text-align: center;"> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">A. CONVENIENCE OUTLETS</td> <td style="width: 50%;">18" MOUNTED VERTICALLY WITH GROUND PRONG SLOT AT BOTTOM</td> </tr> <tr> <td>B. TELECOMM DATA OUTLETS</td> <td>18"</td> </tr> <tr> <td>C. EXIT SIGN, EM. BATTERY LIGHT - WALL</td> <td>87"</td> </tr> <tr> <td>D. RECEPTACLES ABOVE COUNTERS</td> <td>2" ABOVE BACKSPASH MOUNTED HORIZONTALLY</td> </tr> <tr> <td>E. CONVENIENCE OUTLETS IN MECHANICAL, ELECTRICAL, JANITOR, AND ELEVATOR MACHINE ROOMS</td> <td>48"</td> </tr> <tr> <td>F. FIRE ALARM PULL STATION</td> <td>48"</td> </tr> <tr> <td>G. FIRE ALARM HORN, BELL, CHIME OR LIGHT</td> <td>80" OR CEILING MOUNTED</td> </tr> </table> </p> <p>12.1 CONTRACTOR SHALL CHECK EQUIPMENT AND CASEWORK LAYOUTS AND VERIFY EXACT MOUNTING HEIGHTS.</p> <p>13. LOW VOLTAGE / COMMUNICATIONS</p> <p>13.0 REFER TO LOW VOLTAGE / COMMUNICATIONS SPECIFICATION FOR ADDITIONAL INFORMATION.</p> <p>13.1 PROVIDE A MINIMUM 1" CONDUIT FROM EACH LOW VOLTAGE/COMMUNICATIONS OUTLET AND TERMINATE IN AN ACCESSIBLE LOCATION AS SHOWN ON DRAWINGS. CONDUIT ENDS SHALL BE PROVIDED WITH INSULATED BUSHINGS.</p> <p>13.2 PROVIDE A MINIMUM 1" CONDUIT FROM EACH LOW VOLTAGE/COMMUNICATIONS OUTLET AND TERMINATE IN NEAREST IT CLOSET. CONDUIT ENDS SHALL BE PROVIDED WITH INSULATED BUSHINGS.</p> <p>13.3 LOW VOLTAGE/COMMUNICATIONS EQUIPMENT AND CABLING SHALL BE PROVIDED BY OTHERS.</p> <p>13.4 LOW VOLTAGE/COMMUNICATIONS OUTLETS SHALL BE MOUNTED SAME HEIGHTS AS ADJACENT RECEPTACLE OR AS NOTED ON DRAWINGS. COVER PLATES SHALL MATCH ELECTRICAL DEVICE PLATES.</p> <p>13.5 CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD. PRIOR TO ROUGH-IN SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.</p> <p>13.6 CONTRACTOR SHALL REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL AND OTHER TRADES PLANS TO FULLY COORDINATE RACEWAY AND ROUGH-IN REQUIREMENTS FOR LOW VOLTAGE SYSTEMS.</p> <p>14. FIRE ALARM</p> <p>14.0 CONTRACTOR SHALL MODIFY EXISTING EDWARDS EST7 FIRE ALARM SYSTEM AS INDICATED AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. FURNISH AND INSTALL INTERFERENCE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM FOR A COMPLETE AND OPERATING INSTALLATION. ANY QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.</p> <p>14.1 FIRE ALARM LAYOUTS ARE PROVIDED FOR BIDDING AND SCOPING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE FINAL ENGINEERED FIRE ALARM SYSTEM DESIGN AND SUBMIT FOR APPROVAL AS REQUIRED BY THE LOCAL AUTHORITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FULLY COORDINATED DESIGN AND INCLUDE COMPONENTS AND ACCESSORIES AS NECESSARY TO INTERFACE TO COMPONENTS PROVIDED BY OTHER TRADES.</p> <p>14.2 THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFFUSERS SHALL BE 10 FEET. COORDINATE WITH CONTRACTOR AS REQUIRED.</p> <p>14.3 SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.</p> <p>14.4 THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED. COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 72. AUDIBLE SIGNALS SHALL BE SYNCHRONIZED.</p> <p>14.5 PROVIDE WIRING IN CONDUIT (PAINTED RED), 1/2" MINIMUM.</p> <p>14.6 OPERATION SHALL INCLUDE AUTOMATIC SHUTDOWN OF AIR-HANDLERS AND CLOSING OF SMOKE DAMPERS. EXISTING OPERATIONS AT EXISTING AREAS SHALL REMAIN.</p> <p>14.7 ADDITIONAL DEVICES REQUIRED: COMBINATION HORR/VISUAL DEVICES, MANUAL PULL STATIONS, PHOTOELECTRIC DETECTORS</p> <p style="text-align: right;">END OF SECTION 260000</p>	SINGLE POLE TOGGLE 20A-120/277V	HUBBELL HBL1221 SERIES OR EQUAL	SINGLE POLE TOGGLE - 3 WAY 20A-120/277V	HUBBELL HBL1223 SERIES OR EQUAL	COMBINATION WALL SWITCH/SENSOR	SENSOR SWITCH #WSX-PDT SERIES OR EQUAL	COMBINATION WALL SWITCH/DIMMER	SENSOR SWITCH #WSX-PDT-D SERIES OR EQUAL	SIMPLEX RECEPTACLES 20A-125V (GROUNDING TYPE)	HUBBELL 5361 SERIES OR EQUAL	SPECIAL PURPOSE RECEPTACLE	CONFIGURATION AS NOTED ON PLANS	A. CONVENIENCE OUTLETS	18" MOUNTED VERTICALLY WITH GROUND PRONG SLOT AT BOTTOM	B. TELECOMM DATA OUTLETS	18"	C. EXIT SIGN, EM. BATTERY LIGHT - WALL	87"	D. RECEPTACLES ABOVE COUNTERS	2" ABOVE BACKSPASH MOUNTED HORIZONTALLY	E. CONVENIENCE OUTLETS IN MECHANICAL, ELECTRICAL, JANITOR, AND ELEVATOR MACHINE ROOMS	48"	F. FIRE ALARM PULL STATION	48"	G. 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SHEET NUMBER

E4

OF 4 SHEETS

