FINISH SCHEDULE

ROOM NO.	ROOM DISCRIPTION	Level	AREA (SF)	FLOOR FINISH	MATERIAL/COLOR #	BASE FINISH	NORTH	EAST	SOUTH	WEST	CEILING COLOR	TRIM TYPE	CEILING FINISH	CEILING HEIGHT	COMMENTS
200	BASEMENT	BASEMENT FLOOR	3290	F2	TBD	B1	TBD	TBD	TBD	TBD	CP1	NONE	TBD	8' - 0"	
201	ELEVATOR SHAFT	BASEMENT FLOOR	78	F5	NONE	NONE								8' - 0"	
202	MACHINE ROOM	BASEMENT FLOOR	66	F5	NONE	NONE								8' - 0"	
203	STUDY RM.	BASEMENT FLOOR	108	F2		B1								8' - 0"	
204	STUDY RM.	BASEMENT FLOOR	132	F2		B1								8' - 0"	
205	FAMILY BATHROOM	BASEMENT FLOOR	57	F1		B1								8' - 0"	
206	FAMILY BATHROOM	BASEMENT FLOOR	56	F1		B1								8' - 0"	
E200	EXISTING BASEMENT	BASEMENT FLOOR	1480	EXIS.		B1								16' - 6"	
E201	EXISTING MECHANICAL ROOM	BASEMENT FLOOR	204	EXIS.		B1								5' - 0"	
BASEMENT FLOOR: 9			5471												
100	PROCESSING	FIRST FLOOR	228	F2		B1								8' - 0"	
101	OFFICE	FIRST FLOOR	81	F2		B1								8' - 0"	
102	NEW ADDITION PHASE 1	FIRST FLOOR	614	F2		B1								8' - 0"	
103	STUDY	FIRST FLOOR	27	F2		B1								8' - 0"	
104	STUDY	FIRST FLOOR	27	F2		B1								8' - 0"	
105	M RESTROOM	FIRST FLOOR	97	F1		B1								8' - 0"	
106	W RESTROOM	FIRST FLOOR	115	F1		B1								8' - 0"	
107	STUDY RM.	FIRST FLOOR	131	F2		B1								8' - 0"	
108	OFFICE	FIRST FLOOR	118	F2		B1								8' - 0"	
109	OFFICE	FIRST FLOOR	118	F2		B1								8' - 0"	
110	COMMUNITY ROOM ADDITION	FIRST FLOOR	554	F2, F3		B1								8' - 0"	LVT GLUE DOWN 3 FT AROUND SINK AREA
300	NEW ADDITION PHASE 2	FIRST FLOOR	3247	F2		B1								8' - 0"	
301	ELEVATOR SHAFT	FIRST FLOOR	64	F5	NONE	NONE								8' - 0"	
302	CRAFT AREA	FIRST FLOOR	412	F3		B1								8' - 0"	
303	FAMILY RESTROOM	FIRST FLOOR	60	F1		B1								8' - 0"	
304	FAMILY RESTROOM	FIRST FLOOR	62	F1		B1								8' - 0"	
E100	EXISTING LIBRARY	FIRST FLOOR	207	TBD		B1								8' - 0"	
E101	EXISTING STAIRS	FIRST FLOOR	48	EXIS.		B1								8' - 0"	
E102	EXISTING COMMUNITY ROOM	FIRST FLOOR	485	F2		B1								8' - 0"	
FIRST FLOOR: 19			6693												
GRAND TOTAL: 28			12165												

ALL BLANK FIELDS TO BE DETERMINED BY OWNER

ALL EXISTING ROOM FINISHES TO REMAIN UNLESS OTHERWISE NOTED

ROOM FINISH NOTES

1. FINISHING MATERIAL IS SUBJECT TO CHANGE.
2. INSTALL FLOORING UNDER DESKS & COUNTERS THAT ARE OPEN.
3. ALL NEW GYPSUM BOARD WALLS ARE TO RECEIVE NEW ROLL ON TEXTURE BEFORE BEING PAINTED.

FINISH LEGEND

FLOOR

F1	COMMERCIAL SHEET VINYL
F2	CARPET TILE 1 - TBD
F3	COMMERCIAL GLUE DOWN LVT
F4	CERAMIC TILE - TBD
F5	NO WORK
EXIS.	EXISTING TO REMAIN

DOOR & WINDOW TRIM

T1	RETURNED GYP. BOARD
T2	WOOD STAIN-GRADE TRIM
B3	NO WORK
EXIS.	EXISTING TO REMAIN

BASE

B1	4" RUBBER BASE
B2	WOOD STAIN-GRADE TRIM
B3	NO WORK
EXIS.	EXISTING TO REMAIN

WALLS

W1	5/8" GYP. BOARD, w/ WALL COVERING FROM FLOOR-CEILING
W2	5/8" GYP. BOARD, w/ TEXTURE & PAINT FROM FLOOR-CEILING
W3	5/8" GYP BOARD, w/ WALL COVERING & TILE WAINSCOTING
W4	5/8" GYP BOARD, w/ WALL COVERING & WALL PROTECTION WAINSCOTING
W5	PATCH & REPAIR / MATCH EXISTING
W6	METAL EXTERIOR
EXIS.	EXISTING TO REMAIN

CEILINGS

C1	NEW 5/8" GYP. BOARD, PAINTED
C2	EXISTING GYP. BOARD, PAINTED
C3	2' x 2' ACOUSTICAL CEILING TILES
C4	PATCH & REPAIR / MATCH EXISTING
EXIS.	EXISTING TO REMAIN

MATERIALS LEGEND

PAINT

P1	TBD
P2	COLOR
P3	COLOR
P4	COLOR
P5	COLOR
CP1	COMMERCIAL CEILING PAINT FLAT, COLOR- TBD

FLOOR

B-CON	BURNISHED CONCRETE
S-CON	SLICK TROWELED CONCRETE
LVP	BRAND
TILE	BRAND
CAPT1	CARPET STYLE 1
CAPT2	CARPET STYLE 2
N/A	OSB SUBFLOOR

PETERSON ENGINEERS

PROFESSIONAL ENGINEER LICENSED P-21493 3/15/24 STATE OF IDAHO BRIAN DAVID PETERSON

BURLEY PUBLIC LIBRARY
CITY OF BURLEY
1300 Miller Ave, Burley, ID 83318

DATE: MARCH 15, 2024

DRAWN BY: A.O.S.

CHECKED BY: BRIAN PETERSON

PROJECT #: 23-119

ROOM FINISH SCHEDULE

SHEET: 14 / 16

A8.01

SCALE:

DOOR SCHEDULE

Mark	COUNT	LEVEL	Phase Created	WIDTH	HEIGHT	THICKNESS	ROUGH WIDTH	ROUGH HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HINGES	LOCKS	CLOSER	KICKPLATES	STOPS	WEATHER STRIPPING	THRESHOLD	FIRE RATING	EXIT DEVICE	NOTES
200	1	BASEMENT FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
201	1	BASEMENT FLOOR	Phase 2	3' - 0"	7' - 3 3/4"																	
202	1	BASEMENT FLOOR	Phase 2	3' - 0"	7' - 3 3/4"																	
203	1	BASEMENT FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
204	1	BASEMENT FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
205	1	BASEMENT FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/4"	3' - 4"	7' - 4"														
E200	1	BASEMENT FLOOR	01 - Existing	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
BASEMENT FLOOR: 7																						
100	1	FIRST FLOOR	Phase 1	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
101	1	FIRST FLOOR	Phase 1	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
102	1	FIRST FLOOR	Phase 1	0' - 0"	0' - 0"		5' - 9"	7' - 0"														
103	1	FIRST FLOOR	Phase 1	3' - 0"	6' - 11 3/4"																	
104	1	FIRST FLOOR	Phase 1	6' - 0"	6' - 8"	0' - 1 3/4"	6' - 4"	7' - 0"														
105	1	FIRST FLOOR	Phase 1	6' - 0"	6' - 8"	0' - 1 3/4"	6' - 4"	7' - 0"														
108	1	FIRST FLOOR	02 - Demo	0' - 0"	0' - 0"		19' - 0"	7' - 0"														
109	1	FIRST FLOOR	Phase 1	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
110	1	FIRST FLOOR	Phase 1	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
111	1	FIRST FLOOR	Phase 1	3' - 0"	6' - 11 3/4"																	
112	1	FIRST FLOOR	Phase 1	3' - 0"	6' - 8"	0' - 1 3/8"	3' - 2"	6' - 9"														
113	1	FIRST FLOOR	Phase 1	3' - 0"	6' - 8"	0' - 1 3/8"	3' - 2"	6' - 9"														
114	1	FIRST FLOOR	Phase 1	3' - 0"	6' - 11 3/4"																	
115	1	FIRST FLOOR	Phase 1	3' - 0"	6' - 11 3/4"																	
116	1	FIRST FLOOR	Phase 1	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
117	1	FIRST FLOOR	Phase 1	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
300	1	FIRST FLOOR	Phase 2	0' - 0"	0' - 0"		8' - 6"	7' - 0"														
301	1	FIRST FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
302	1	FIRST FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
303	1	FIRST FLOOR	Phase 2	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
E100	1	FIRST FLOOR	01 - Existing	9' - 10"	7' - 0"																	
E101	1	FIRST FLOOR	01 - Existing	0' - 0"	0' - 0"		9' - 6"	7' - 0"														
E102	1	FIRST FLOOR	01 - Existing	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
E103	1	FIRST FLOOR	01 - Existing	3' - 0"	7' - 0"	0' - 1 3/8"	3' - 2"	7' - 1"														
E112	1	FIRST FLOOR	Phase 1	0' - 0"	0' - 0"		5' - 9"	7' - 0"														
FIRST FLOOR: 25																						
Grand total																						

ALL BLANK FIELDS TO BE DETERMINED BY OWNER

ALL EXISTING ROOM FINISHES TO REMAIN UNLESS OTHERWISE NOTED

WINDOW SCHEDULE

WINDOW NO.	COUNT	LEVEL	WIDTH	HEIGHT	HEAD HEIGHT	ROUGH WIDTH	ROUGH HEIGHT	TYPE	FRAME TYPE	NOTES

CURTAIN WALL SCHEDULE

NAME	MARK	LEVEL	PHASE CREATED	LENGTH	HEIGHT	COMMENTS
Curtain Wall: Storefront	A	BASEMENT FLOOR	Phase 2	9' - 10 3/4"	10' - 2"	
Curtain Wall: Storefront	B	BASEMENT FLOOR	Phase 2	12' - 0 1/4"	10' - 2"	
Curtain Wall: Storefront	C	FIRST FLOOR	Phase 2	4' - 0"	6' - 6"	
Curtain Wall: Storefront	D	FIRST FLOOR	Phase 1	13' - 2 1/4"	9' - 6"	
Curtain Wall: Storefront	E	FIRST FLOOR	Phase 1	9' - 7 1/2"	9' - 6"	
Curtain Wall: Storefront	F	FIRST FLOOR	Phase 1	9' - 9 3/4"	9' - 6"	
Curtain Wall: Storefront	G	FIRST FLOOR	01 - Existing	31' - 7"	7' - 6"	
Curtain Wall: Storefront	H	FIRST FLOOR	01 - Existing	24' - 0 3/8"	7' - 6"	
Curtain Wall: Storefront	I	FIRST FLOOR	01 - Existing	40' - 11"	3' - 3"	
Curtain Wall: Storefront	J	FIRST FLOOR	Phase 1	8' - 6 1/4"	9' - 6"	
Curtain Wall: Storefront	K	FIRST FLOOR	01 - Existing	16' - 9 1/4"	2' - 6 5/16"	
Curtain Wall: Storefront	L	FIRST FLOOR	Phase 2	4' - 0"	6' - 6"	
Curtain Wall: Storefront	M	FIRST FLOOR	Phase 2	4' - 0"	6' - 6"	
Curtain Wall: Storefront	N	FIRST FLOOR	Phase 2	4' - 0"	6' - 6"	
Curtain Wall: Storefront	O	FIRST FLOOR	Phase 2	4' - 0"	6' - 6"	
Curtain Wall: Storefront	P	FIRST FLOOR	Phase 2	4' - 0"	6' - 6"	
Grand total: 16						

GENERAL BUILDING NOTES

1. PRIOR TO ORDER CONTRACTOR TO VERIFY SCHEDULED WINDOW / DOOR SIZE W/ EXISTING, EXISTING OPENING SIZE.
2. ALL WINDOW / DOOR W/ NEW @ EXISTING OPENING PREP. FOR NEW ROUGH OPENINGS. PRESSURE TREATED LUMBER, TYP.
3. VERIFY EXISTING OR NEW WALL THICKNESS FOR NEW DOOR FRAME THROAT SIZE, TYP.
4. WINDOW & DOOR SUPPLIER TO PROVIDE FULL SHOP DRAWINGS FOR SUBMITTAL FOR REVIEW & APPROVAL.

DOOR LEGEND

HINGES		
H1	PART NO.	BRAND
H2	PART NO.	BRAND
LOCKS		
L1: ENTRANCE	PART NO.	BRAND
L2: PASSAGE	PART NO.	BRAND
L3: OFFICE	PART NO.	BRAND
L4: STORAGE	PART NO.	BRAND
L5: PRIVACY	PART NO.	BRAND
L6: CYLINDER	PART NO.	BRAND
L7: CURTAIN WALL	PART NO.	BRAND
CLOSER		
C1	PART NO.	BRAND
KICKPLATES		
K1	PART NO.	BRAND
STOPS		
S1	PART NO.	BRAND
S2	PART NO.	BRAND
WEATHER STRIPPING		
WS1	PART NO.	BRAND
SMOKE SEALS		
SS1	PART NO.	BRAND
DOOR SWEEP		
DS1	PART NO.	BRAND
THRESHOLD		
T1	PART NO.	BRAND
EXIT DEVICE		
ED1	PART NO.	BRAND

PETERSON ENGINEERS

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DATE: MARCH 15, 2024

DRAWN BY: A.O.S.

CHECKED BY: BRIAN PETERSON

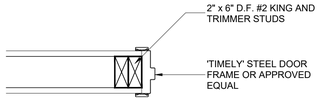
PROJECT #: 23-119

DOOR & WINDOW SCHEDULES

SHEET: 15 / 16

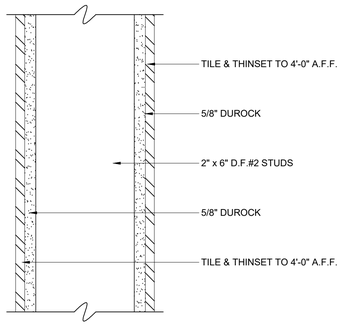
A8.02

SCALE:

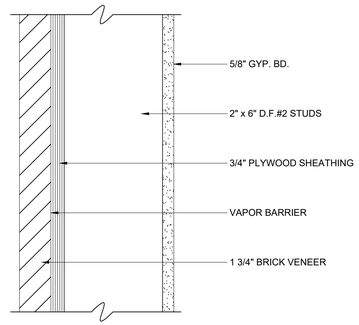


NOTE:
WHERE RESTROOM DOOR IS ON A WALL WITH TILE WALL SURFACE, BUTT FRP AGAINST 'TIMELY' TRIM AND PROVIDE SEALANT

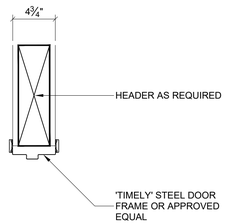
9 A9.01 **JAMB DETAIL**
SCALE: 1 1/2"=1'-0" INTERIOR DOORS



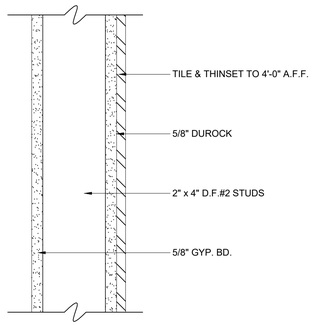
5 A9.01 **WALL TYPE 5**
SCALE: 3"=1'-0"



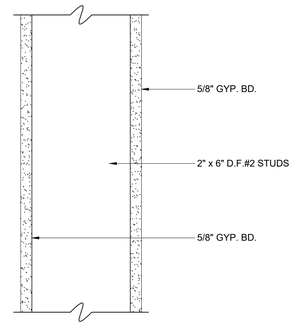
1 A9.01 **WALL TYPE 1**
SCALE: 3"=1'-0"



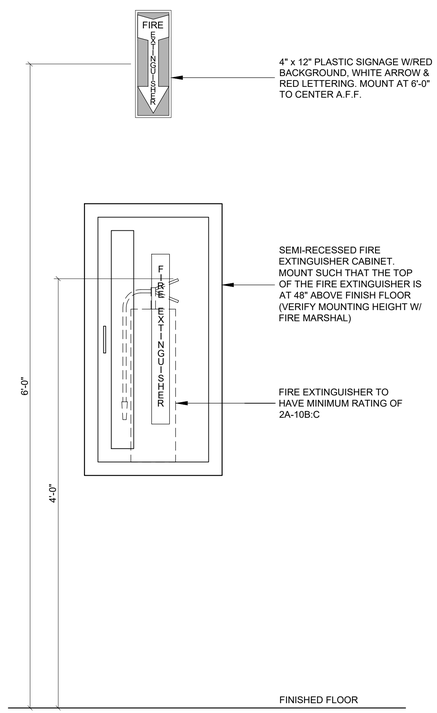
10 A9.01 **HEAD DETAIL**
SCALE: 1 1/2"=1'-0" INTERIOR DOORS



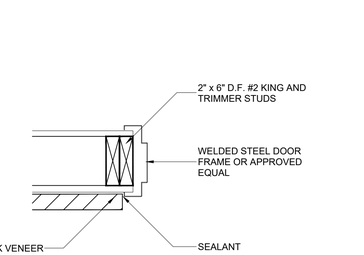
6 A9.01 **WALL TYPE 6**
SCALE: 3"=1'-0"



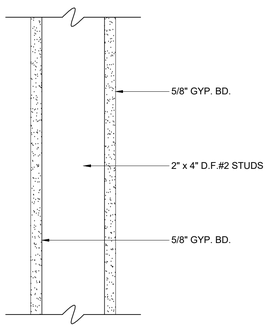
2 A9.01 **WALL TYPE 2**
SCALE: 3"=1'-0"



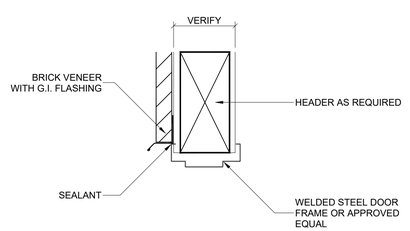
11 A9.01 **FIRE EXTINGUISHER DETAIL**
SCALE: 1 1/2"=1'-0"



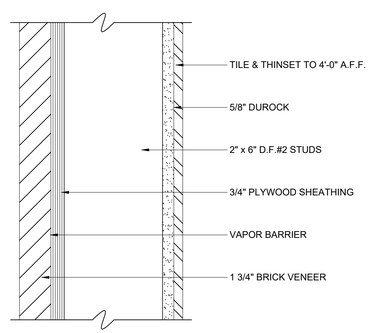
7 A9.01 **JAMB DETAIL**
SCALE: 1 1/2"=1'-0" EXTERIOR DOORS



3 A9.01 **WALL TYPE 3**
SCALE: 3"=1'-0"



8 A9.01 **HEAD DETAIL**
SCALE: 1 1/2"=1'-0" EXTERIOR DOORS



4 A9.01 **WALL TYPE 4**
SCALE: 3"=1'-0"

PETERSON ENGINEERS

PROFESSIONAL ENGINEER LICENSED P-21493 03/15/24 STATE OF IDAHO BRIAN DAVID PETERSON

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CITY OF BURLEY
1300 Miller Ave., Burley, ID 83318

DATE:
15 MARCH, 2024

DRAWN BY:
RLB

CHECKED BY:
BRIAN PETERSON

PROJECT NUMBER
23-119

MISCELLANEOUS DETAILS

SHEET: 16 / 16

A9.01

SCALE: AS NOTED

STRUCTURAL DESIGN CRITERIA:

DESIGN PER INTERNATIONAL BUILDING CODE, 2018.

A. DEAD LOADS: (INCLUDING COLLATERAL AND FRAMING WEIGHT)
   TYPICAL ROOF, UNO.....20 PSF

B. LIVE LOADS:
   ROOF:
   TYPICAL, U.N.O. .....20 PSF (REDUCIBLE, PER CODE)
   FLOOR.....150 PSF (1,000 LBS CONCENTRATED)

C. WIND LOADS: (BASED ON ASCE 7-16)
   BASIC WIND SPEED (V_ult).....115 MPH
   WIND RISK CATEGORY II
   WIND EXPOSURE CATEGORY.....B

D. SEISMIC DESIGN DATA: (BASED ON ASCE 7-16)
   SEISMIC IMPORTANCE FACTOR.....Ie = 1.00
   SITE CLASSIFICATION.....D
   SPECTRAL DESIGN ACCELERATION (SHORT PERIOD).....SDS = .223
   SPECTRAL DESIGN ACCELERATION (1 SECOND PERIOD).....SD1 = .143
   SEISMIC DESIGN CATEGORY.....C

E. SNOW LOADS
   SNOW EXPOSURE FACTOR.....Ce = 1.0
   SNOW IMPORTANCE FACTOR.....Is = 1.0
   THERMAL FACTOR.....Ct = 1.0
   GROUND SNOW LOAD.....20 PSF
   FLAT ROOF SNOW LOAD.....14 PSF

F. THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF WOOD FRAMED SHEAR WALLS.

GENERAL STRUCTURAL NOTES:

A. THE STRUCTURAL NOTES SHALL GOVERN IN MATTERS COVERED ON THE STRUCTURAL DRAWINGS. SEE PROJECT SPECIFICATION AND OTHER DRAWINGS FOR FURTHER REQUIREMENTS. TOTAL PROJECT DEFINITION WILL BE PROVIDED BY COMBINING PROJECT SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWING PACKAGES.

B. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT REPRESENT THE METHOD OF CONSTRUCTION. REFER TO DEMOLITION PLANS FOR EXTENT OF EXISTING STRUCTURE TO BE REMOVED. STRUCTURAL DRAWINGS AND DETAILS REFLECT CONDITION OF EXISTING STRUCTURE AFTER DEMOLITION WORK IS COMPLETED.

C. TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDED, BUT NOT BE LIMITED TO TEMPORARY BRACING AND SHORING OR DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS ETC.

D. FOR TYPICAL DETAILS SHOWN BUT NOT REFERRED TO EXCEPT HEREIN, CONFORM TO ALL OF THE REQUIREMENTS OF THESE DETAILS TO THE SAME EXTENT AS IF REFERRED TO BY DETAIL NUMBER.

E. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

CONCRETE MASONRY UNITS NOTES:

A. ALL MASONRY WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 7) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6).

B. CONCRETE MASONRY UNITS SHALL BE ASTM C90, NORMAL-WEIGHT AGGREGATE, WITH f'm = 2,000 PSI.

C. MORTAR SHALL CONFORM TO ASTM C270 TYPE S TYPICAL WITH TYPE M USED BELOW GRADE (U.O.N.). MORTAR STRENGTH: TYPE S: f'm = 1,800 PSI, TYPE M: f'm = 2,500 PSI

D. GROUT SHALL BE 3000 PSI STRENGTH AT 28 DAYS. GROUT SOLID ALL CELLS WITH REINFORCING OR EMBEDDED BOLTS.

E. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. COLD DRAWN STEEL WIRE SHALL CONFORM TO ASTM A82. LAP ALL CONTINUOUS BARS PER TABLE ON THIS SHEET.

F. METAL ANCHORS AND TIES SHALL BE OF CORROSION RESISTANT METAL HOT DIPPED GALVANIZED.

G. JOINT REINFORCING SHALL BE 9 GAGE DEFORMED LONGITUDINAL WIRES AND SMOOTH CORROSION RESISTANT CROSS WIRES. SPACE AT 16" O.C. VERTICAL. PLACE REINFORCEMENT 5/8" CLEAR FROM EXPOSED FACES AND 1/2" CLEAR FROM INTERIOR FACES OF MASONRY.

H. CONCRETE MASONRY BOND BEAMS SHALL BE VERTICALLY SPACED AT 8'-0" ON CENTER MAXIMUM. PROVIDE (2) #5 BARS MIN. REINFORCING IN 8" BOND BEAMS (U.N.O.).

I. PROVIDE VERT. REINF. IN ONE VERT. CELL OF NEW CMU OPENINGS 4'-0" WIDE AND SMALLER, UNO. PROVIDE VERT. REINF. IN EA. OF TWO CELLS IN JAMBS OF NEW CMU OPENINGS WIDER THAN 4'-0" UNO. REINF. TO MATCH THAT OF WALL.

J. NON-LOAD BEARING CMU WALLS SHALL BE REINFORCED W/ (1)-#5 VERT. AT 4'-0" O.C. SEE PLAN FOR LOCATIONS.

K. BOND OF BLOCK SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE.

L. MASONRY CELLS FILLED WITH GROUT SHALL BE GROUTED IN INCREMENTS NOT EXCEEDING 5'-0" VERTICALLY.

M. PROVIDE TEMPORARY BRACING FOR MASONRY WALLS UNTIL THEY ARE CONSTRUCTED TO THEIR FINAL DESIGN CONDITION.

N. REFER TO SHEET S-105 FOR TYPICAL CMU DETAILS.

CMU LAP SPLICE/DEVELOPMENT LENGTHS			
BAR SIZE	l_d	BAR SIZE	l_d
#3	24"	#6	54"
#4	32"	#7	63"
#5	40"	#8	72"

STRUCTURAL STEEL NOTES:

A. STRUCTURAL STEEL WORK SHALL COMPLY WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360), BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

B. WELDING WORK SHALL COMPLY WITH THE WELDING CODE (AWS D1.1), BY THE AMERICAN WELDING SOCIETY. ALL WELDS SHALL BE 3/16" MINIMUM FILLET WELDS U.N.O. OR AS REQUIRED BY A.I.S.C.

C. STRUCTURAL WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992, ASTM A572 OR ASTM A529, GRADE 50 (Fy = 50 KSI). STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE C (RECTANGULAR: Fy = 50KSI, ROUND: Fy = 46 KSI). ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 (Fy = 36KSI) EXCEPT AS OTHERWISE NOTED ON DRAWINGS.

D. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE (U.N.O.). ALL OTHER BOLTS SHALL CONFORM TO ASTM F3125. HIGH STRENGTH LOAD INDICATOR BOLTS MAY BE USED AS AN OPTION. HEADED STUD ANCHORS SHALL CONFORM TO A108.

E. ALL STRUCTURAL SHOP AND FIELD WELDING SHALL BE MADE WITH ELECTRODES DESIGNATED BY E70XX LOW HYDROGEN AND SHALL BE PERFORMED BY CERTIFIED WELDERS.

F. ALL CONNECTIONS, U.N.O., SHALL BE MADE WITH 3/4" DIA. A325 BOLTS, DESIGNED AS TYPE "N" BEARING CONNECTIONS. THE MINIMUM NUMBER OF BOLTS IN ANY CONNECTION OF SECONDARY MEMBERS SHALL BE TWO 3/4" DIA. A325 BOLTS, U.N.O.

G. ANGLE FRAME MEMBERS AROUND TRENCHES, PITS, OPENINGS, ETC. SHALL BE MITERED, WELDED AND GROUND SMOOTH.

H. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

I. ALL STRUCTURAL STEEL MEMBERS, ANGLES, BARS, ANCHORS, ANCHOR BOLTS, ETC. EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123 AFTER FABRICATION.

CONCRETE AND REINFORCING NOTES:

A. ALL CONCRETE WORK SHALL COMPLY WITH THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301), BY THE AMERICAN CONCRETE INSTITUTE.

B. UNLESS NOTED OTHERWISE, THE 28 DAY COMPRESSIVE STRENGTH OF CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

CONCRETE USE	f'c	EXPOSURE CLASS (ACI 318-14 TABLE 19.3.2.1)
SLABS ON GRADE & SLAB ON GRADE TOPPINGS	4000 PSI	F1 / S0 / W1 / C0
EXTERIOR CONCRETE IN CONTACT W/ SOIL & ALL OTHER CONCRETE	4500 PSI	F2 / S0 / W1 / C1

C. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   FLOOR SLABS..... 2 INCHES FROM TOP

D. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH THE CURRENT EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 318 DURING THE PLACEMENT OF CONCRETE.

E. PROVIDE CORNER BARS AT ALL BEAM AND WALL INTERSECTIONS. CORNER BARS SHALL BE THE SAME DIAMETER AS THE LARGER INTERSECTING BARS.

F. ALL WALL FOOTING AND WALL STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. TOP BARS SHALL BE SPLICED AT THE CENTER OF THE SPAN, BOTTOM BARS OVER SUPPORTS, AND OTHER HORIZONTAL TEMPERATURE BARS AS REQUIRED.

G. PROVIDE #4 x 3'-0" LONG DIAGONAL BARS AT ALL RE-ENTRANT CORNERS, TYP.

H. SEE ARCHITECTURAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND MECHANICAL PLANS FOR CAST-IN-PLACE BOLTS, INSERTS, ANCHORS, ETC. AND FOR ALL SLAB LEAVE-OUTS, SLOPES, DEPRESSIONS, SLEEVES, ETC.

I. WELDED REINFORCEMENT SHALL CONFORM TO AWS D1.4.

J. ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, U.N.O.

K. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" U.N.O.

L. CONCRETE REINFORCEMENT:
   REINFORCING STEEL: ASTM A615, GRADE 60
   REINFORCING STEEL: TO BE WELDED: ASTM A706, GRADE 60
   WELDED WIRE REINF: ASTM A1064

M. REINFORCED BAR LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

CLASS "B" TENSION SPLICES

3000 PSI CONCRETE			4000 PSI CONCRETE		
BAR SIZE	TOP BARS	ALL OTHERS	BAR SIZE	TOP BARS	ALL OTHERS
#3	28"	22"	#3	24"	19"
#4	37"	29"	#4	32"	25"
#5	47"	36"	#5	40"	31"
#6	56"	43"	#6	48"	37"
#7	81"	63"	#7	70"	54"
#8	93"	72"	#8	80"	62"
#9	105"	81"	#9	91"	70"
#10	118"	91"	#10	102"	79"
#11	131"	101"	#11	113"	87"

FOUNDATION NOTES:

A. PROVIDE ALL TEMPORARY BRACING AND OTHER MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION.

B. REMOVE ALL EXISTING MATERIALS TO A DEPTH SHOWN, THE UPPER 6 INCHES OF THE EXISTING SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY ACCORDING TO ASTM D 698.

C. REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.

D. FOUNDATIONS SHALL BEAR ON VERY WELL COMPACTED SATISFACTORY FILL, AS REFERENCED IN PRODUCT SPECIFICATIONS, OR UNDISTURBED SOIL. FOUNDATIONS HAVE A PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF.

E. ALL FOUNDATION WORK SHALL BE INSPECTED AND APPROVED FOR REQUIRED SOIL BEARING CAPACITY BY A COMPETENT SOILS ENGINEER OR THEIR REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.

F. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNTIL THE CONCRETE HAS ATTAINED ITS 28 DAYS STRENGTH.

G. EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM 24" BELOW FINISHED GRADE TO ACCOMMODATE 18 INCH FROST PENETRATION DEPTH.

SYMBOLS & ABBREVIATIONS:

AB	ANCHOR BOLT	IAW	IN ACCORDANCE WITH
ADJ	ADJACENT	IF	INSIDE FACE
AFF	ABOVE FINISH FLOOR	IMP	INSULATED METAL PANEL
ARCH	ARCHITECTURAL	INT	INTERIOR
B/	BOTTOM OF	JT	JOINT
BC	BOTTOM CHORD		
BLDG	BUILDING	KSI	KIPS PER SQUARE INCH
BM	BEAM		
BOTT	BOTTOM	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTW	BETWEEN	LOC	LOCATION
		LSV	LONG SIDE VERTICAL
CACB	CRUSHED AGGREGATE BASE COURSE	LT GA	LIGHT GAGE
CCJ	CONTRACTION CONTROL JOINT		
CFMF	COLD FORMED METAL FRAMING	M	MECHANICAL
CL	CENTER LINE	MAX	MAXIMUM
CLR	CLEAR	MC	MOMENT CONNECTION
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL
COL	COLUMN	MFR	MANUFACTURER
CONC	CONCRETE	MIN	MINIMUM
CONT	CONTINUOUS		
		OAE	OR APPROVED EQUAL
D	DEEP	OC	ON CENTER
DBA	DEFORMED BAR ANCHOR	OF	OUTSIDE FACE
DET	DETAIL	OH	OPPOSITE HAND
DIA	DIAMETER		
		P	PLUMBING
E	ELECTRICAL	PAF	POWDER ACTUATED FASTENER
EA	EACH	PL	PLATE
EJ	EXPANSION JOINT	PSF	POUNDS PER SQUARE FOOT
EL	ELEVATION	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDMENT		
EOD	EDGE OF DECK	R	RADIUS
EP	EMBEDDED PLATE	REINF	REINFORCEMENT
EQ	EQUAL		
EQUIP	EQUIPMENT	SDST	SELF-DRILLING SELF-TAPPING
EXIST	EXISTING	SIM	SIMILAR
EXP	EXPANSION	SLV	SHORT LEG VERTICAL
EXT	EXTERIOR	STD	STANDARD
		STL	STEEL
FDN	FOUNDATION		
FTG	FOOTING	T&B	TOP AND BOTTOM
FV	FIELD VERIFY	T/	TOP OF
		TH	THICK
GALV	GALVANIZED	TRANS	TRANSVERSE
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	TYP	TYPICAL
GR	GRADE	UNO	UNLESS NOTED OTHERWISE
HDG	HOT DIPPED GALVANIZED	VERT	VERTICAL
HORIZ	HORIZONTAL		
HSA	HEADED STUD ANCHOR	W	WIDE
HSS	HOLLOW STEEL SECTION	W/	WITH
HT	HEIGHT	WF	WIDE FLANGE
		WP	WORK POINT

COLD-FORMED STEEL FRAMING:

A. ALL COLD FORMED STEEL FRAMING SHALL BE DESIGNED PER THE AISI S100 - 12 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".

B. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE COLD-FORMED STEEL FRAMING SYSTEM INCLUDING SIZE, GAUGE, STRENGTH, SPACING OF MEMBERS, ANCHORAGE TO STRUCTURE, CONNECTIONS, ANGLES, CLIPS, BRACING, STRAPPING, BRIDGING, SUPPLEMENTARY FRAMING, FRAMING AT OPENINGS AND AT EXPANSION JOINTS.

C. SUBMITTALS SHALL CLEARLY IDENTIFY ALL APPLICABLE CODES, LIST THE DESIGN CRITERIA AND SHOW ALL DETAILS AND DRAWINGS NECESSARY FOR PROPER FABRICATION AND INSTALLATION.

D. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER WHO SHALL BE THE DELEGATED ENGINEER.

E. THE FRAMING SYSTEM SHALL BE DESIGNED TO RESIST ALL APPLIED LOADINGS INCLUDING GRAVITY LOADS, CONSTRUCTION LOADS, WIND LOADS (HORIZONTAL AND VERTICAL) AND ALL OTHER LOADS AS REQUIRED BY THE APPLICABLE BUILDING CODES.

F. THE FRAMING SYSTEM SHALL ACCOUNT FOR MOVEMENT OF THE STRUCTURE AND OTHER COMPONENTS, INCLUDING, BUT NOT LIMITED TO, DEFLECTION OF THE PRIMARY STRUCTURE, CONSTRUCTION TOLERANCES AND MAINTAINING REQUIRED CLEARANCE AT OPENINGS

GENERAL NOTES:

1. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR OTHERWISE NOTED (U.N.O.)
2. THE STRUCTURAL DRAWINGS INDICATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH TREQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEPRESSIONS, CHANGES OF ELEVATION, EDGE OF SLAB, SIZE AND LOCATION OF OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, CHAMFERS, NON-BEARING PARTITIONS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, OPENINGS, HANGERS, TRENCHES, CONCRETE INSERTS, AND ANCHORAGE FOR PIPES, DUCTS, EQUIPMENT, AND FIXTURES.
4. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WHICH IMPACT THE WORK. FIELD VERIFY SIZES, ELEVATIONS, HOLE LOCATIONS, ET., PRIOR TO FABRICATION.
5. DRAWING DIMENSIONS ARE TO FACE OF FINISH, JOINT CENTERLINE OR COLUMN GRID CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.
6. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.
7. EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER'S REPRESENTATIVE.
9. ANY DEVIATION, MODIFICATION AND SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL PRIOR TO IT'S USE OR INCLUSION ON THE SHOP DRAWINGS AND PRIOR TO PROCEEDING WITH THE WORK
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES, AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES, AND UTILITIES MEY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF IDAHO.
11. THE CONTRACTOR SHALL PROVIDE MEANS, METHODS, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED.
12. SITE VISITS PERFORMED BY THE ENGINEER DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS, AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.
14. CONTRACTOR AHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO OWNER'S REPRESENTATIVE.
15. REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM THE CONTRACT DOCUMENTS.
16. SHOP DRAWINGS WILL NOT BE PROCESSED DUE TO INCOMPLETENESS, LACK OF COORDINATION WITH RELEVANT PORTION OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS IF REQUIRED AND WHERE DEVIATIONS, MODIFICATIONS, AND SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR WRITTEN APPROVAL FROM OWNER'S REPRESENTATIVE
17. ALLOW 10 WORKING DAYS FOR PROCESSING SHOP DRAWINGS AFTER RECEIPT. ALLOW FIVE WORKING DAYS FOR PROCESSING RFIs AFTER RECEIPT.

PETERSON ENGINEERS

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PROJECT NUMBER 23-119

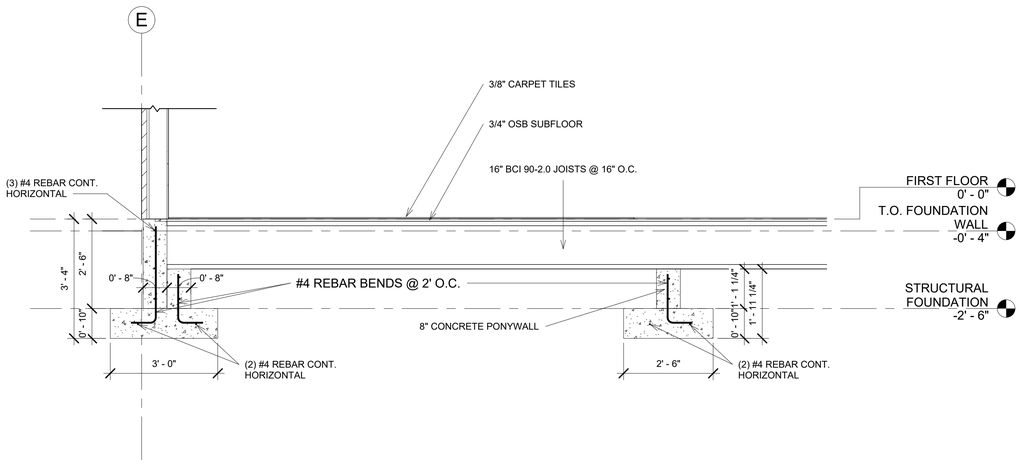
GENERAL STRUCTURAL NOTES

SHEET: 1 / 5

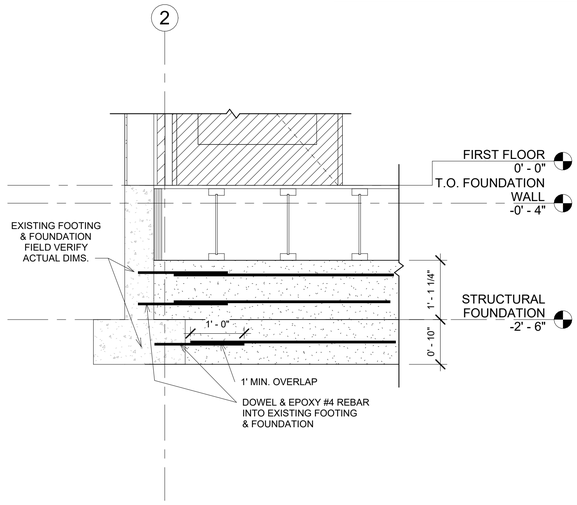
S0.01

SCALE: N.T.S.

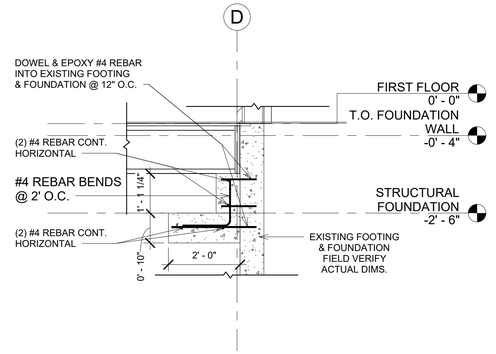
1 PHASE 1 FLOOR SECTION
1/2" = 1'-0"



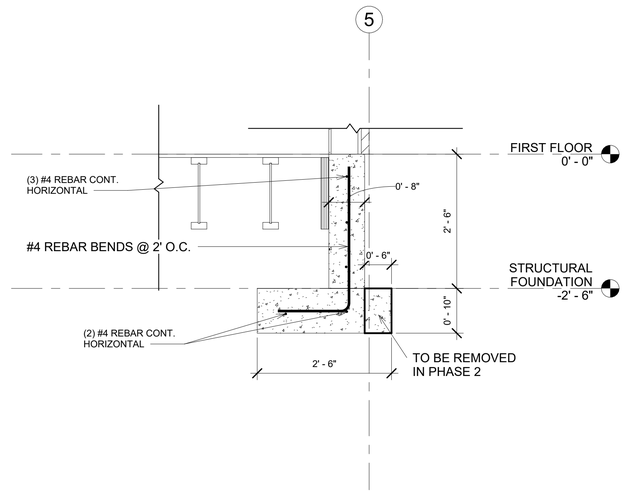
2 PHASE 1 FNDN. PINNING DETAIL
3/4" = 1'-0"



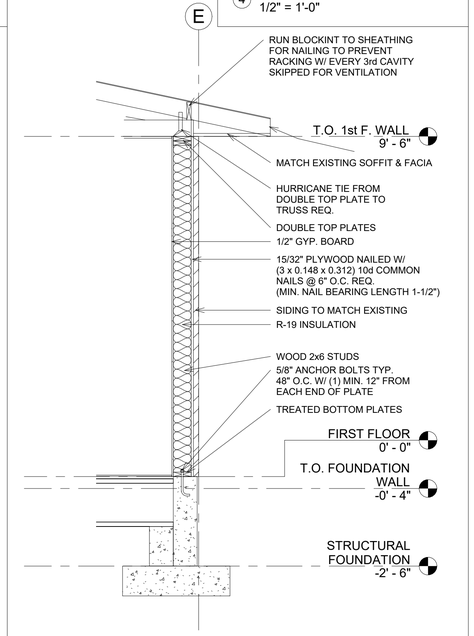
3 PHASE 1 FOUNDATION PINNING
1/2" = 1'-0"



5 PHASE 1 NEW SOUTH FOUNDATION
3/4" = 1'-0"



4 PHASE 1 SHEAR WALL SECTION
1/2" = 1'-0"



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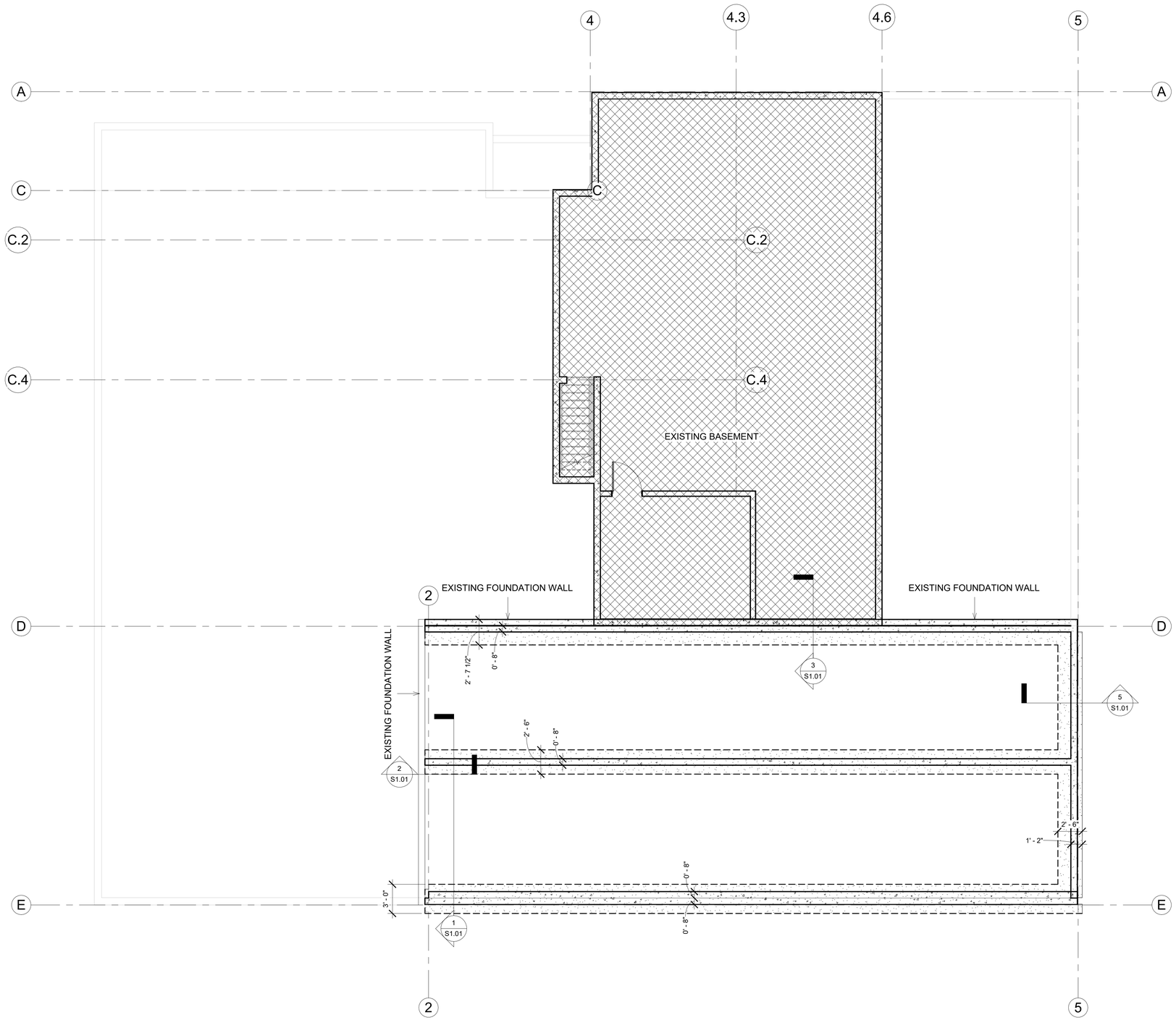
PHASE 1
FOUNDATION
DETAILS

SHEET: 2 / 5

S1.01

SCALE: As indicated



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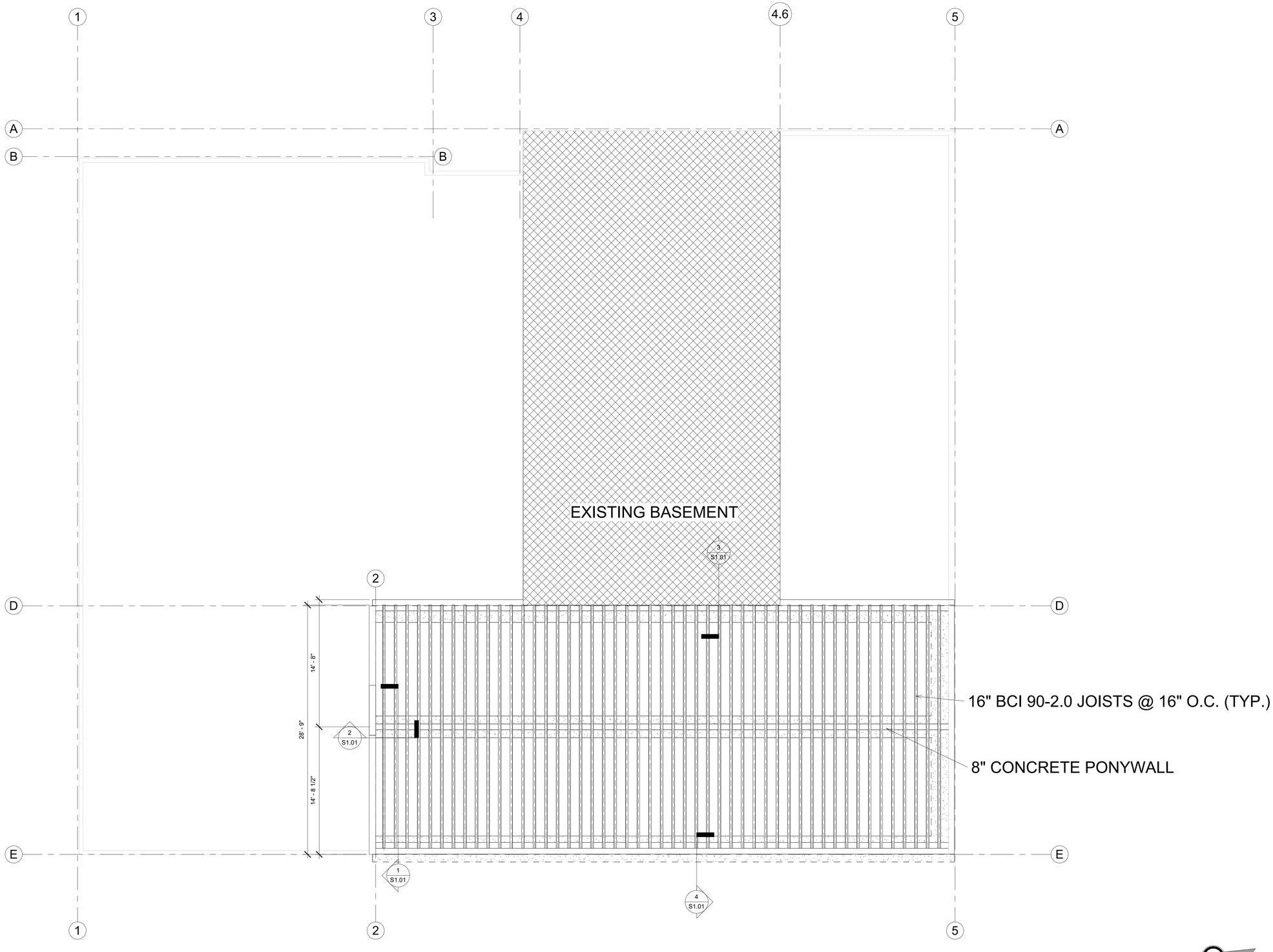
PHASE 1
FOUNDATION
PLAN

SHEET: 3 / 5

S2.01

SCALE: 3/16" = 1'-0"

1 PHASE I FLOOR FRAMING
3/16" = 1'-0"



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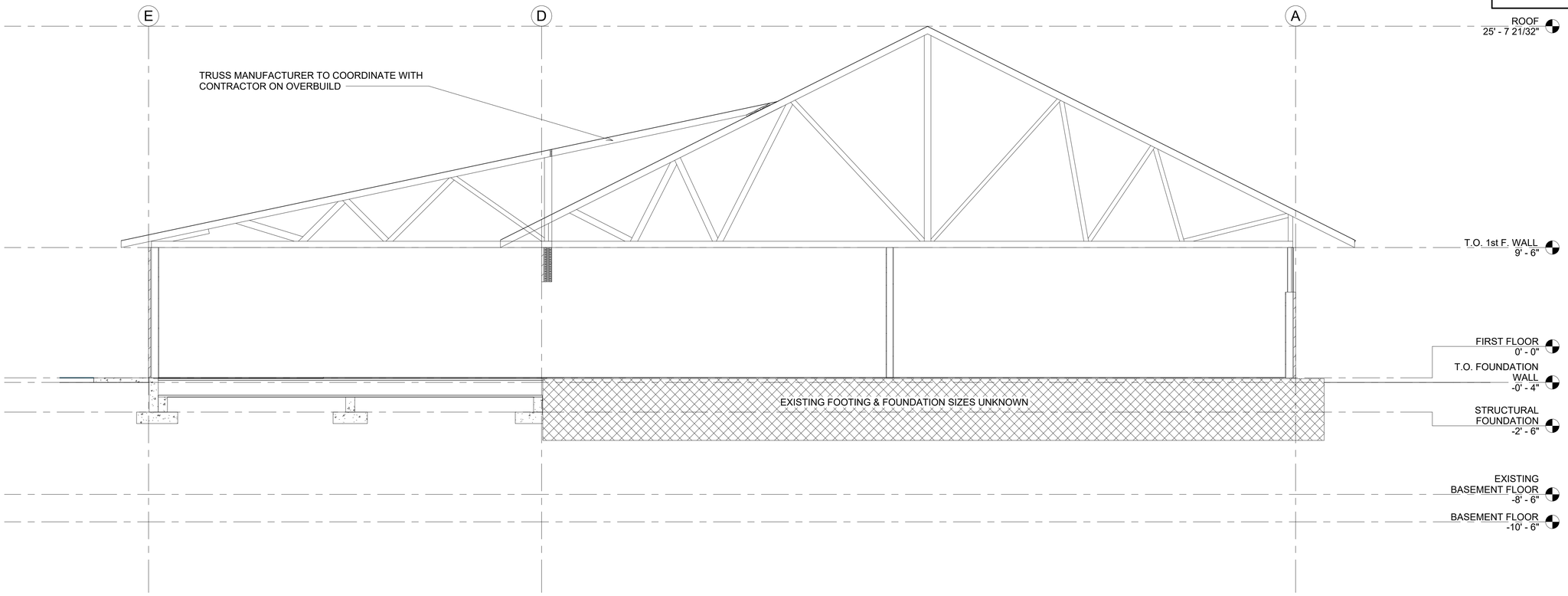
FLOOR FRAMING PLAN

SHEET: 4 / 5

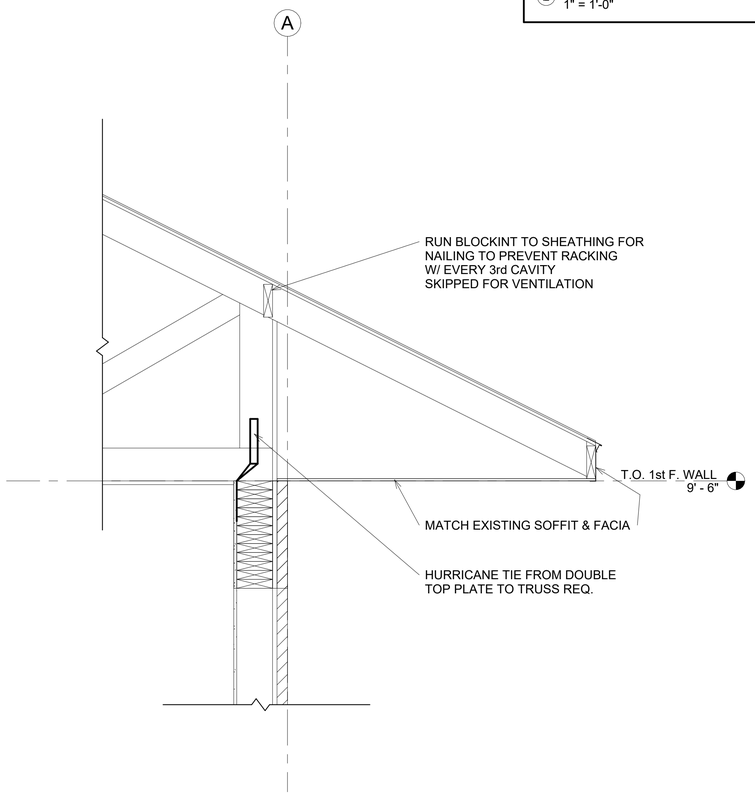
S3.01

SCALE: 3/16" = 1'-0"

① ELEVATOR SHAFT SECTION
1/4" = 1'-0"



② Section 10
1" = 1'-0"



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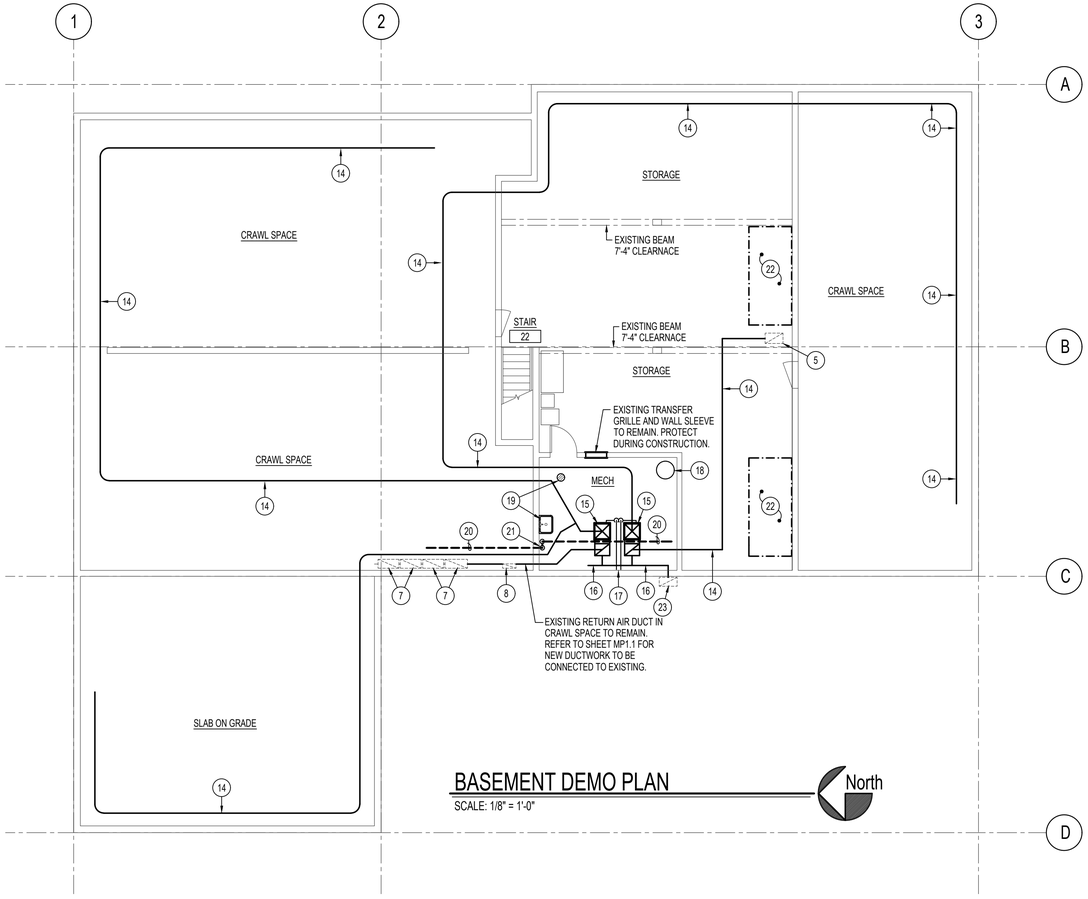
PROJECT #:
23-119

ROOF FRAMING SECTIONS

SHEET: 5 / 5

S4.01

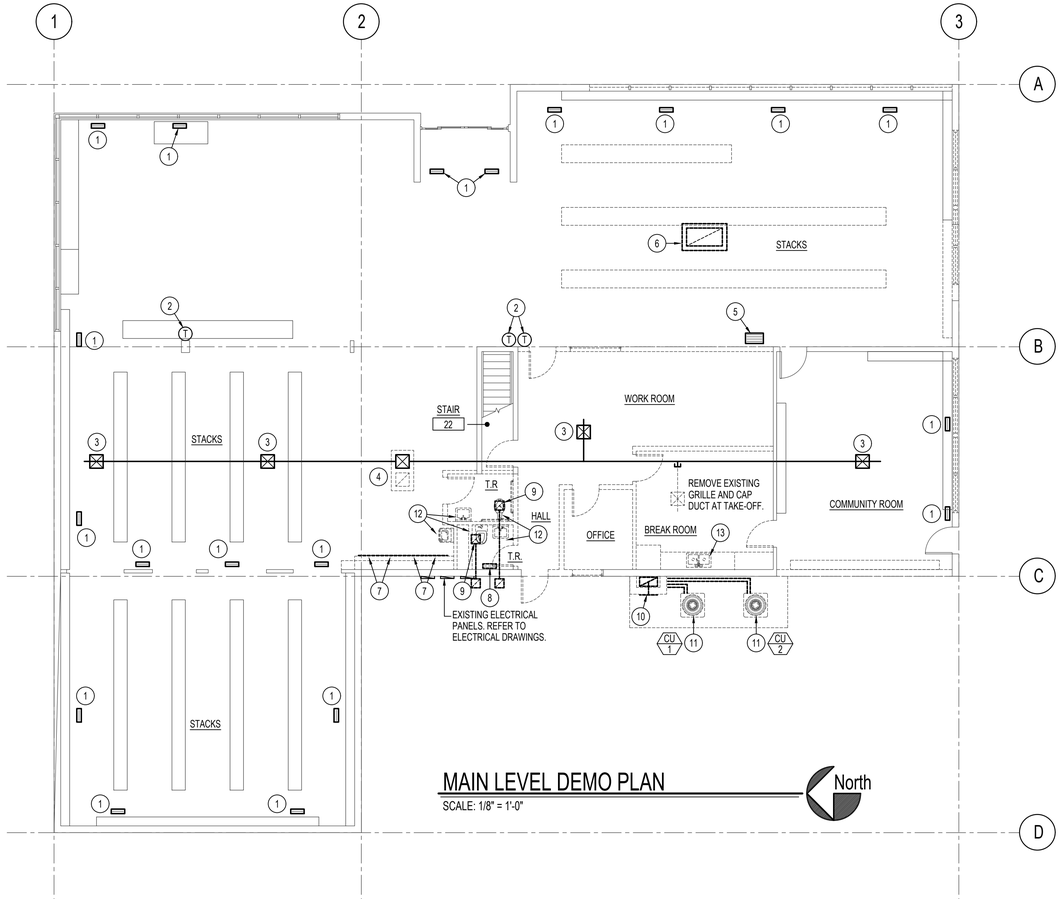
SCALE: As indicated



BASEMENT DEMO PLAN

SCALE: 1/8" = 1'-0"

North



MAIN LEVEL DEMO PLAN

SCALE: 1/8" = 1'-0"

North

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
V	VENT		SOIL OR WASTE PIPING	HD	HAND DAMPER
VTR	VENT THRU ROOF		VENT LINE PIPING	M	MOTORIZED DAMPER
CO	CLEANOUT		DOMESTIC COLD WATER PIPING		ROUND BRANCH DUCT WITH HAND DAMPER
WCO	WALL CLEANOUT		DOMESTIC HOT WATER PIPING		RECTANGULAR SUPPLY AND RETURN AIR DUCT TAKE-OFF
COTG	CLEANOUT TO GRADE		HOT WATER RECIRC. PIPING		TURNING VANES
SA	SUPPLY AIR	CD	CONDENSATE DRAIN LINE		DUCT TRANSITION
RA	RETURN AIR		DIRECTION OF FLOW INDICATOR		INSULATED FLEXIBLE DUCT
OA	OUTSIDE AIR		GATE VALVE		FLOOR REGISTER OR GRILLE
REFR	REFRIGERANT		BALL VALVE		RETURN AIR GRILLE
1	ELECTRONIC THERMOSTAT		CHECK VALVE		DOUBLE LINE DUCTWORK = NEW DUCT
1	PLAN NOTE		PIPE DROP		
FC 1	EQUIPMENT SYMBOL		PIPE RISE		
	CONDENSING UNIT	L	REFRIGERANT LIQUID LINE		
	ELECTRIC FURNACE	S	REFRIGERANT SUCTION LINE		
	DASHED LINE DUCTWORK = REMOVED DUCT		CEILING DIFFUSER		
			CEILING MOUNTED EXHAUST FAN		
			SINGLE LINE DUCTWORK = EXISTING DUCT		

PLAN NOTES:

1. EXISTING FLOOR REGISTER TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING DUCTWORK IN CRAWL SPACE.
2. EXISTING TEMPERATURE CONTROL DEVICE TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING MECHANICAL EQUIPMENT.
3. EXISTING CEILING DIFFUSER AND DUCTWORK IN ATTIC TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING ROOF MOUNTED UNIT.
4. EXISTING ROOF MOUNTED EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION. RELOCATE EXISTING CEILING RETURN AIR GRILLE IN CEILING. REFER TO SHEET MP1.2 FOR NEW WALLS.
5. EXISTING FLOOR RETURN AIR GRILLE TO BE RELOCATED. REFER TO SHEET MP1.2 FOR NEW GRILLE LOCATION. REMOVE AND MODIFY EXISTING DUCTWORK IN BASEMENT STORAGE ROOM AS REQUIRED FOR NEW GRILLE LOCATION.
6. DISCONNECT EXISTING CONCENTRIC DIFFUSER IN CEILING AND ANY EXISTING DUCTWORK IN ATTIC. REFER TO ARCHITECTURAL PLANS FOR PATCHING OF EXISTING CEILING.
7. DISCONNECT AND REMOVE EXISTING RETURN AIR GRILLE NEAR FLOOR AND EXISTING DUCT SLEEVES THRU FLOOR. REFER TO SHEET MP1.1 AND MP1.2 FOR NEW FLOOR MOUNTED RETURN GRILLES TO BE INSTALLED AND CONNECTED TO EXISTING RETURN DUCT IN CRAWL SPACE.
8. DISCONNECT AND REMOVE EXISTING FLOOR REGISTER. REMOVE BOOT THRU FLOOR AND CAP EXISTING DUCT IN CRAWL SPACE. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF EXISTING FLOOR.
9. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED EXHAUST FAN, DUCTWORK IN ATTIC AND EXISTING SOFFIT GRILLE. FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT LOCATIONS.
10. REMOVE EXISTING OUTSIDE LOUVER AND EXTERIOR SECTION OF EXISTING OUTSIDE AIR DUCT IN CHASE. REFER TO SHEET MP1.1 FOR NEW OUTSIDE AIR DUCT TO BE CONNECTED TO EXISTING DUCTWORK IN BASEMENT MECHANICAL ROOM.
11. EXISTING CONDENSING UNIT TO BE RELOCATED. CONTRACTOR TO CAPTURE ALL EXISTING 410a REFRIGERANT FROM UNIT AND PIPING AND STORE FOR RE-CHARGING OF NEW REFRIGERANT PIPING. REFER TO SHEET MP1.2 FOR NEW CONDENSING UNIT LOCATIONS ON ROOF AND REFRIGERANT LINES.
12. DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. CAP EXISTING WASTE AND WATER LINES IN CRAWL SPACE. CAP EXISTING VENT PIPING IN ATTIC. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING PIPING.
13. DISCONNECT, REMOVE AND RETAIN EXISTING BREAK ROOM SINK FOR RE-INSTALLATION. CAP EXISTING WASTE AND WATER LINES IN CRAWL SPACE. CAP EXISTING VENT PIPING IN ATTIC. CONTRACTOR TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF EXISTING PIPING. REFER TO SHEET MP1.2 FOR NEW LOCATION OF EXISTING FIXTURE.
14. ALL EXISTING DUCTWORK IN CRAWL SPACE AND BASEMENT TO REMAIN UNLESS NOTED OTHERWISE. EXISTING BOOTS UP THRU FLOOR TO FLOOR REGISTERS TO REMAIN ALSO. PROTECT DURING CONSTRUCTION.
15. EXISTING ELECTRIC FURNACE AND DX COOLING COIL TO REMAIN. CAPTURE ALL EXISTING 410a REFRIGERANT FROM SYSTEM AND RETAIN TO RE-CHARGE SYSTEM AFTER CHANGES IN THE REFRIGERANT LINES HAVE BEEN MADE.
16. EXISTING OUTSIDE AIR DUCT IN MECHANICAL ROOM. REFER TO SHEET MP1.1 FOR NEW DUCTWORK ABOVE GRADE AND TO DETAILS ON SHEET MP3.1 FOR TYPICAL ROOF PENETRATION AND GOOSENECK INSTALLATION.
17. EXISTING REFRIGERANT PIPING OUT TO EXISTING CONDENSING UNITS TO BE REMOVED AND RE-ROUTED TO NEW CONDENSING UNIT LOCATIONS ON ROOF. CONTRACTOR TO CAPTURE ALL EXISTING 410a REFRIGERANT FROM UNIT AND PIPING AND STORE FOR RE-CHARGING OF NEW REFRIGERANT PIPING. REFER TO SHEET MP1.2 FOR NEW CONDENSING UNIT LOCATIONS AND REFRIGERANT LINES.
18. EXISTING WATER HEATER AND ALL ASSOCIATED PIPING TO REMAIN UNLESS NOTED OTHERWISE. CONNECT NEW 3/4" HOT AND COLD WATER LINES TO EXISTING PIPING FOR NEW ADDITIONS. PROVIDE AND INSTALL NEW HOT WATER RECIRCULATION PUMP ON NEW 3/4" HOT WATER RETURN LINE. REFER TO WATER HEATER PIPING DIAGRAM D/MP3.1 FOR TYPICAL PIPING CONNECTIONS.
19. EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING TO REMAIN. PROTECT DURING CONSTRUCTION.
20. EXISTING WASTE PIPING IN MECHANICAL ROOM AND IN CRAWL SPACE TO REMAIN. PROTECT EXISTING PIPING DURING CONSTRUCTION.
21. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND ELEVATION OF EXISTING 4" CAST IRON WASTE PIPING BELOW BASEMENT FLOOR. CUT AND PATCH EXISTING BASEMENT FLOOR AS REQUIRED. REFER TO SHEET MP1.1 FOR NEW PIPING TO BE CONNECTED TO EXISTING AT 87'-9" INVERT ELEVATION (OR LOWER) TO ALLOW PROPER GRADING OF NEW PIPING TO FIXTURES.
22. COORDINATE WITH OWNER TO CLEAR OUT EXISTING STORAGE ROOM AS REQUIRED TO INSTALL (2) NEW ELECTRIC FURNACES IN BASEMENT. INSTALL NEW ELECTRIC FURNACE WITH MATCHING DX COOLING COIL IN BASEMENT UNDER PHASE 1 OR PHASE 2 CONSTRUCTION AS CALLED OUT ON SHEET MP1.1.
23. EXISTING OUTSIDE AIR DUCT THRU FOUNDATION WALL TO REMAIN. DISCONNECT AND REMOVE DUCT ELBOW AND VERTICAL DUCT FOR NEW CRAWL SPACE UNDER PHASE 1 CONSTRUCTION. REFER TO SHEET MP1.1 AND TO LARGE SCALE PLAN D/MP2.1 FOR NEW OUTSIDE AIR DUCT TO BE CONNECTED TO EXISTING DUCT THRU FOUNDATION WALL.

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PROFESSIONAL ENGINEER — 18184 — DAVID L. HANSEN — STATE OF IDAHO — Jan 25, 2024

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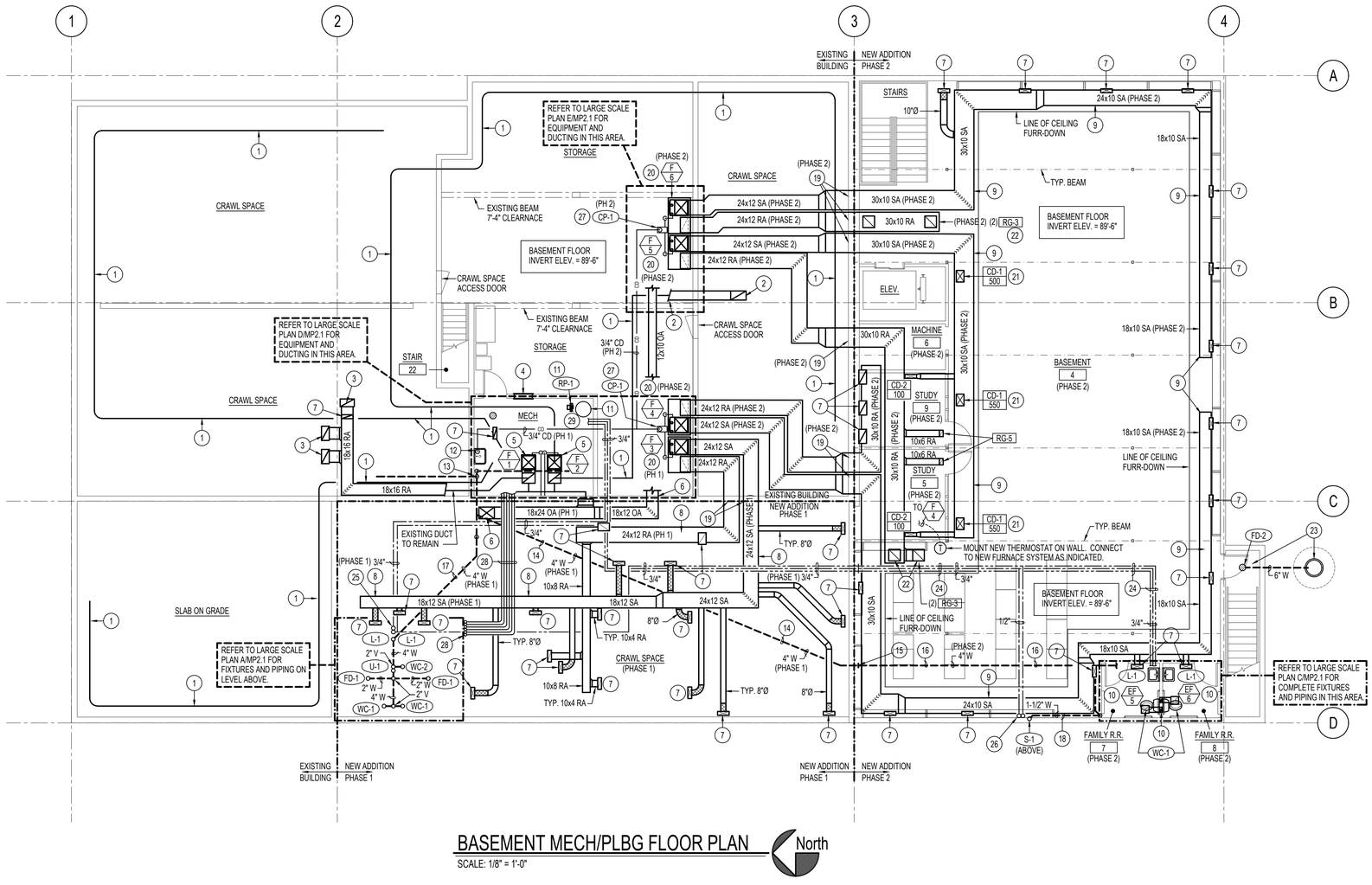
MECH & PLBG DEMO PLANS

SHEET: 1 / 6

MP0.1

SCALE: 1/8" = 1'-0"



BASEMENT MECH/PLBG FLOOR PLAN

SCALE: 1/8" = 1'-0"

North

PLAN NOTES:

1. ALL EXISTING DUCTWORK IN CRAWL SPACE AND BASEMENT TO REMAIN UNLESS NOTED OTHERWISE. EXISTING BOOTS UP THRU FLOOR TO FLOOR REGISTERS TO REMAIN ALSO. PROTECT DURING CONSTRUCTION.
2. EXISTING FLOOR RETURN AIR GRILLE TO BE RELOCATED TO NEW LOCATION AS SHOWN. MODIFY EXISTING RETURN DUCT AS REQUIRED FOR NEW LOCATION OF EXISTING GRILLE. NEW DUCT TO MATCH EXISTING DUCT SIZE. FIELD VERIFY.
3. INSTALL NEW FLOOR MOUNTED RETURN AIR GRILLES AS SCHEDULED. DROP BOOT DOWN AND CONNECT TO NEW 18x16 RETURN AIR DUCT IN CRAWL SPACE. CONNECT NEW 18x16 RETURN DUCT TO EXISTING RETURN DUCT IN CRAWL SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING DUCTWORK. PROVIDE TRANSITION AS REQUIRED.
4. EXISTING TRANSFER GRILLE AND WALL SLEEVE TO REMAIN. PROTECT DURING CONSTRUCTION.
5. EXISTING ELECTRIC FURNACE AND DX COOLING COIL TO REMAIN. CAPTURE ALL EXISTING 410a REFRIGERANT FROM SYSTEM AND RETAIN TO RE-CHARGE SYSTEM AFTER CHANGES IN THE REFRIGERANT LINES HAVE BEEN MADE.
6. EXISTING OUTSIDE AIR DUCT THRU EXISTING FOUNDATION WALL TO REMAIN. PROVIDE TRANSITION AS REQUIRED TO CONNECT NEW 18x24 DUCT TO EXISTING. EXTEND NEW 18x24 DUCT THRU CRAWL SPACE AS SHOWN. FIELD VERIFY SIZE OF EXISTING DUCT. (REFER TO LARGE SCALE PLAN D/MP2.1.)
7. NEW FLOOR REGISTER IN FLOOR ABOVE. PROVIDE FULL SIZED BOOT THRU FLOOR AND CONNECT TO SUPPLY OR RETURN AIR DUCT BELOW SLAB OR IN BASEMENT. MAXIMUM OF 3'-0" FLEX DUCT ALLOWED AT CONNECTION. REFER TO DETAILS ON SHEET MP3.2 FOR TYPICAL INSTALLATION.
8. INSTALL NEW RIGID DUCTWORK AS SHOWN IN CRAWL SPACE. CONNECT TO BOOTS THRU FLOOR WITH RIGID ROUND DUCT. REFER TO DETAILS ON SHEET MP3.2 FOR TYPICAL INSTALLATION.
9. RUN NEW DUCTWORK ABOVE BASEMENT IN 'FURRED' CEILING. COORDINATE WITH STRUCTURAL BEAMS AND KEEP DUCT AS HIGH AS POSSIBLE.
10. INSTALL CEILING MOUNTED EXHAUST FAN AS SCHEDULED. RISE 8x4 EXHAUST DUCT FROM EACH FAN UP IN WALL ABOVE. COORDINATE DUCTS WITH PIPING IN WALL. REFER TO LARGE SCALE PLAN B/MP2.1 FOR CONTINUATION OF DUCTWORK OUT TO SOFFIT GRILLES.
11. EXISTING WATER HEATER AND ALL ASSOCIATED PIPING TO REMAIN UNLESS NOTED OTHERWISE. CONNECT NEW 3/4" HOT AND COLD WATER LINES TO EXISTING PIPING FOR NEW ADDITIONS. PROVIDE AND INSTALL NEW HOT WATER RECIRCULATION PUMP ON NEW 3/4" HOT WATER RETURN LINE. REFER TO WATER HEATER PIPING DIAGRAM D/MP3.1 FOR TYPICAL PIPING CONNECTIONS.
12. EXISTING WALL MOUNTED SERVICE SINK AND ALL ASSOCIATED PIPING TO REMAIN. PROTECT DURING CONSTRUCTION.
13. CONNECT NEW 4" WASTE LINE TO EXISTING 4" CAST IRON WASTE PIPING BELOW BASEMENT FLOOR FOR NEW FIXTURES. CUT AND PATCH EXISTING BASEMENT FLOOR AS REQUIRED TO CONNECT NEW PIPING. NEW PIPING TO BE CONNECTED AT 87'-9" INVERT ELEVATION (OR LOWER) TO ALLOW PROPER GRADING OF NEW PIPING TO FIXTURES. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND ELEVATION OF EXISTING PIPING AFTER FLOOR HAS BEEN REMOVED.
14. GRADE NEW 4" WASTE LINE AT 1/8" SLOPE PER FOOT AND KEEP AS LOW AS POSSIBLE. CUT EXISTING BASEMENT WALL AND FLOOR AS REQUIRED TO CONNECT TO EXISTING WASTE LINE INSIDE BUILDING. (SEE NOTE 13.) PIPING TO BE INSTALLED UNDER PHASE 1 CONSTRUCTION.
15. PROVIDE STUB-OUT OF 4" WASTE BELOW BASEMENT FLOOR UNDER PHASE 1 CONSTRUCTION AND CAP FOR FUTURE CONNECTION UNDER PHASE 2 CONSTRUCTION. KEEP PIPING AT OR BELOW 88'-4" TO ENSURE PROPER GRADE TO NEW FIXTURES.
16. GRADE NEW 4" WASTE LINE AT 1/8" SLOPE PER FOOT AND KEEP AS LOW AS POSSIBLE. PIPING TO BE INSTALLED UNDER PHASE 2 CONSTRUCTION.
17. GRADE NEW WASTE PIPING IN CRAWL SPACE AT 1/4" SLOPE PER FOOT. PIPING TO BE INSTALLED UNDER PHASE 1 CONSTRUCTION.
18. 1-1/2" WASTE LINE TO S-1 SINK TO BE RUN ABOVE BASEMENT CEILING. COORDINATE WITH DUCTWORK.
19. CUT EXISTING FOUNDATION WALL AS REQUIRED UNDER PHASE 1 OR PHASE 2 TO INSTALL NEW DUCTWORK AS SHOWN. COORDINATE NEW DUCTWORK WITH EXISTING DUCTWORK IN THE AREA AND MODIFY EXISTING DUCTWORK AS REQUIRED.
20. INSTALL NEW ELECTRIC FURNACE WITH MATCHING DX COOLING COIL IN BASEMENT UNDER PHASE 1 CONSTRUCTION. MOUNT UNIT ON 14" HIGH RETURN AIR PLENUM AND RISE SUPPLY DUCT UP AS HIGH AS POSSIBLE IN BASEMENT. REFER TO DETAIL ON SHEET MP3.1 FOR TYPICAL DETAILS OF PLENUM BASE CONSTRUCTION AND FURNACE INSTALLATION.
21. PROVIDE CEILING DIFFUSER AS SCHEDULED. ATTACH TO BOTTOM OF SUPPLY DUCT. COORDINATE DIFFUSER LOCATION WITH LIGHT FIXTURES AND FLOOR STRUCTURE ABOVE.
22. PROVIDE RETURN AIR GRILLE AS SCHEDULED. ATTACH TO BOTTOM OF RETURN AIR DUCT. COORDINATE GRILLE LOCATION WITH LIGHT FIXTURES AND FLOOR STRUCTURE ABOVE.
23. PROVIDE AREA DRAIN AS SPECIFIED IN BOTTOM OF STAIR WELL. NO TRAP REQUIRED. EXTEND 6" LINE AS SHOWN TO CONNECT TO NEW FRENCH DRAIN JUST OUTSIDE STAIRWELL. REFER TO DETAIL H/MP3.2 FOR TYPICAL INSTALLATION.
24. RUN WATER PIPING ABOVE LAY-IN CEILING. COORDINATE WITH STRUCTURE AND LIGHT FIXTURES.
25. RISE 3/4" HOT AND COLD WATER LINE UP THRU FLOOR. RUN PIPING IN WALL TO FIXTURES ON MAIN LEVEL.
26. RISE 1/2" HOT AND COLD WATER LINES UP THRU FLOOR AND CONNECT TO FIXTURE ABOVE. DO NOT RISE LINE UP IN WALL.
27. PROVIDE CONDENSATE PUMP SCHEDULED AND MOUNT ON FLOOR. CONNECT 3/4" DRAIN LINE FROM EACH FURNACE TO RECEIVING TANK. RISE DISCHARGE LINE UP AND RUN NEAR BASEMENT CEILING TO EXISTING WALL MOUNTED SERVICE SINK AS SHOWN. COORDINATE PIPING WITH BUILDING STRUCTURE, OTHER PIPING, AND DUCTWORK. KEEP PIPING AS HIGH AS POSSIBLE. SUPPORT PIPING AS REQUIRED SO THERE ARE NO SAGS IN LINE.
28. EXTEND (3) SETS OF REFRIGERANT LINES ABOVE ROOF (FOR SYSTEMS F-4, F-5, AND F-6) UNDER PHASE 2 CONSTRUCTION AS REQUIRED. EXTEND THE SAME (3) SETS OF LINES IN BASEMENT AS REQUIRED TO CONNECT TO CORRESPONDING FURNACES. CONDENSING UNIT MARKS TO CORRESPOND WITH FURNACE MARKS.
29. INSTALL SHUT-OFF VALVES ON NEW 3/4" HOT WATER, 3/4" COLD WATER AND 3/4" HOT WATER RECIRC PIPING SERVING PHASE 2 PLUMBING FIXTURES FOR ISOLATION AND FUTURE CONSTRUCTION.

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BASEMENT MECH & PLBG FLOOR PLAN

SHEET: 2 / 6

MP1.1

SCALE: 1/8" = 1'-0"

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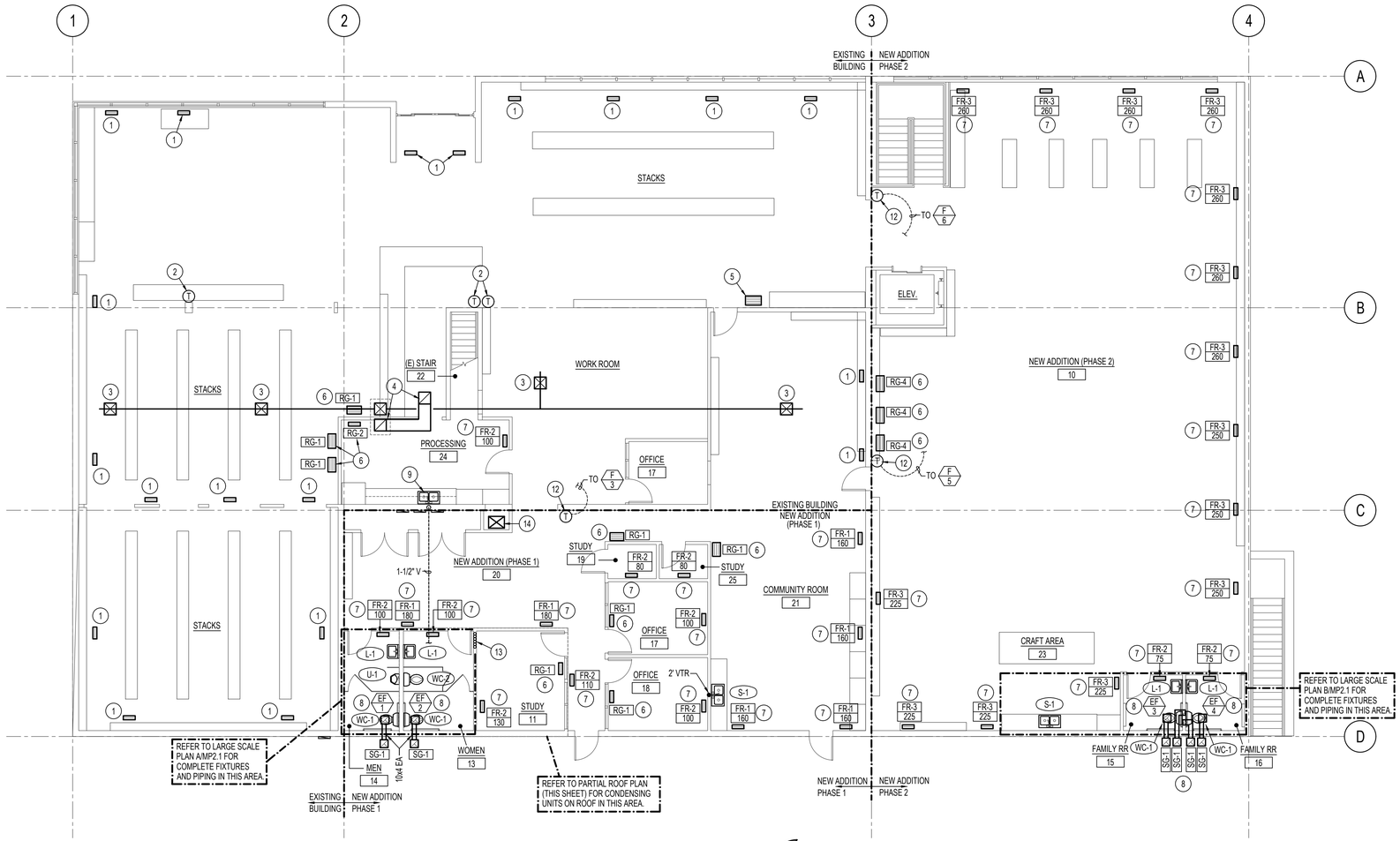
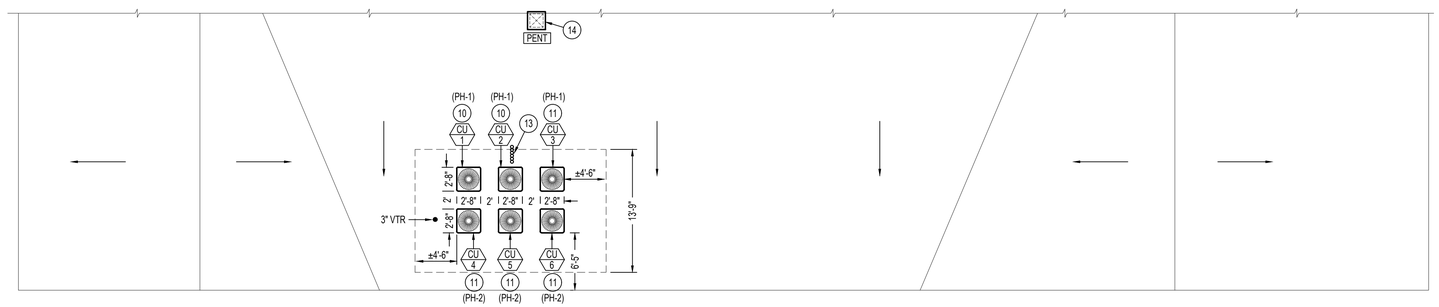


MAIN LEVEL MECH/PLBG FLOOR PLAN

SCALE: 1/8" = 1'-0"



PARTIAL ROOF PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. EXISTING FLOOR REGISTER TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING DUCTWORK IN CRAWL SPACE.
2. EXISTING TEMPERATURE CONTROL DEVICE TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING MECHANICAL EQUIPMENT.
3. EXISTING CEILING DIFFUSER AND DUCTWORK IN ATTIC TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECT TO EXISTING ROOF MOUNTED UNIT.
4. EXISTING ROOF MOUNTED EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION. RELOCATE EXISTING RETURN AIR GRILLE IN CEILING AS SHOWN FOR NEW CONSTRUCTION. RECONNECT TO EXISTING ROOF MOUNTED EQUIPMENT. MATCH EXISTING DUCT SIZE.
5. RELOCATE EXISTING FLOOR RETURN AIR GRILLE TO THIS LOCATION. REPLACE OR MODIFY EXISTING DUCTWORK IN BASEMENT STORAGE ROOM AS REQUIRED FOR NEW GRILLE LOCATION. REFER TO SHEET MP1.1 FOR DUCT CHANGES.
6. INSTALL NEW RETURN AIR GRILLE AS SCHEDULED IN NEW OR EXISTING FLOOR. COORDINATE GRILLE LOCATION WITH FLOOR JOISTS AND WITH OTHER DUCTWORK BELOW FLOOR. REFER TO SHEET MP1.1 FOR DUCTWORK BELOW FLOOR.
7. INSTALL NEW SUPPLY REGISTERS AS SCHEDULED IN NEW FLOOR. COORDINATE NEW REGISTER LOCATION WITH FLOOR JOISTS, DUCTWORK BELOW FLOOR AND WITH BOOK SHELVES. REFER TO SHEET MP1.1 FOR DUCTWORK BELOW FLOOR.
8. INSTALL CEILING MOUNTED EXHAUST FAN AS SCHEDULED. RUN DUCT TO SOFFIT MOUNTED GRILLE. REFER TO DETAIL G/MP3.1 FOR TYPICAL INSTALLATION.
9. INSTALL EXISTING (RELOCATED) BREAK ROOM SINK IN NEW COUNTERTOP. DROP 1-1/2" WASTE AND 1/2" HOT AND COLD WATER LINES DOWN THRU FLOOR AND CONNECT TO EXISTING PIPING IN BASEMENT MECHANICAL ROOM. RISE 1-1/2" VENT UP IN EXISTING WALL TO ABOVE CEILINGS. CONNECT TO NEW 3" VTR FROM NEW TOILET ROOMS INSTALL DURING PHASE 1 CONSTRUCTION.
10. RELOCATE EXISTING CONDENSING UNIT TO NEW EQUIPMENT PLATFORM ON ROOF. MOUNT WITH PYRAMID TYPE SUPPORTS AND 1" THICK NEOPRENE PADS AT EACH CORNER. CONTRACTOR TO REUSE ALL CAPTURED 410a REFRIGERANT FROM EXISTING UNIT AND PIPING LOCATIONS FOR RE-CHARGING OF NEW REFRIGERANT PIPING. PROVIDE NEW REFRIGERANT AS REQUIRED TO FULLY CHARGE LINES. UNIT MARKS CORRESPOND WITH FURNACE MARKS.
11. INSTALL NEW CONDENSING UNIT ON ROOF EQUIPMENT PLATFORM AS SCHEDULED. MOUNT WITH PYRAMID TYPE SUPPORTS AND 1" THICK NEOPRENE PADS AT EACH CORNER. COORDINATE EQUIPMENT AND PIPING WITH ROOF EDGES.
12. MOUNT NEW THERMOSTAT ON WALL. CONNECT TO NEW FURNACE SYSTEM AS INDICATED.
13. DROP (6) SETS OF REFRIGERANT LINES (3/8" LIQUID AND 7/8" SUCTION LINES FOR 6 UNITS) THRU ROOF AND DOWN IN WALL BELOW. RUN ALL (6) SETS OF LINES TO EXISTING MECHANICAL ROOM. EXTEND (3) SETS OF LINES TO SYSTEMS F-1, F-2, AND F-3 AND CONNECT UNDER PHASE 1 CONSTRUCTION. CAP (3) SETS OF LINES DURING PHASE 1 FOR SYSTEMS F-4, F-5, AND F-6 BOTH IN BASEMENT MECHANICAL ROOM AND ABOVE ROOF. LABEL CLEARLY FOR FUTURE CONNECTION.
14. RISE 24x18 OUTSIDE AIR DUCT UP IN DUCT CHASE. EXTEND THRU ROOF AND CONNECT TO PENTHOUSE. REFER TO DETAIL G/MP3.2 FOR TYPICAL PENTHOUSE INSTALLATION. REFER TO SHEET MP1.1 FOR OUTSIDE AIR DUCT IN CRAWL SPACE.

PETERSON ENGINEERS

PROFESSIONAL ENGINEER — 16184 — JAN 25, 2024 — STATE OF IDAHO — DAVID L. HANSEN

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MAIN LEVEL MECH/PLBG FLOOR PLAN

SHEET: 3 / 5

MP1.2

SCALE: 1/8" = 1'-0"

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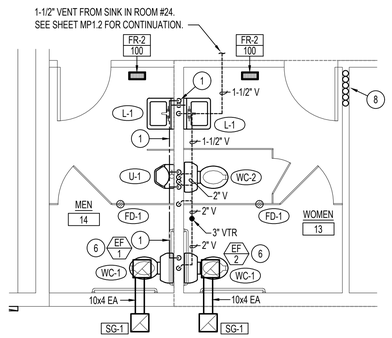
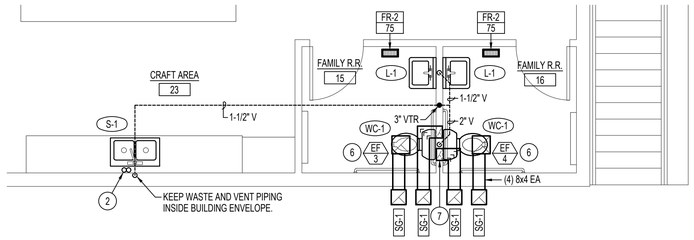


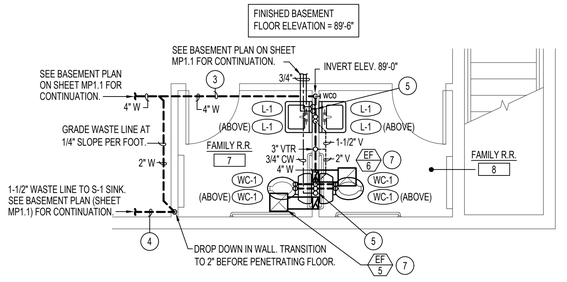
A LARGE SCALE TOILET ROOM PLBG PLAN (MAIN LEVEL)

SCALE: 1/4" = 1'-0" (PHASE 1)



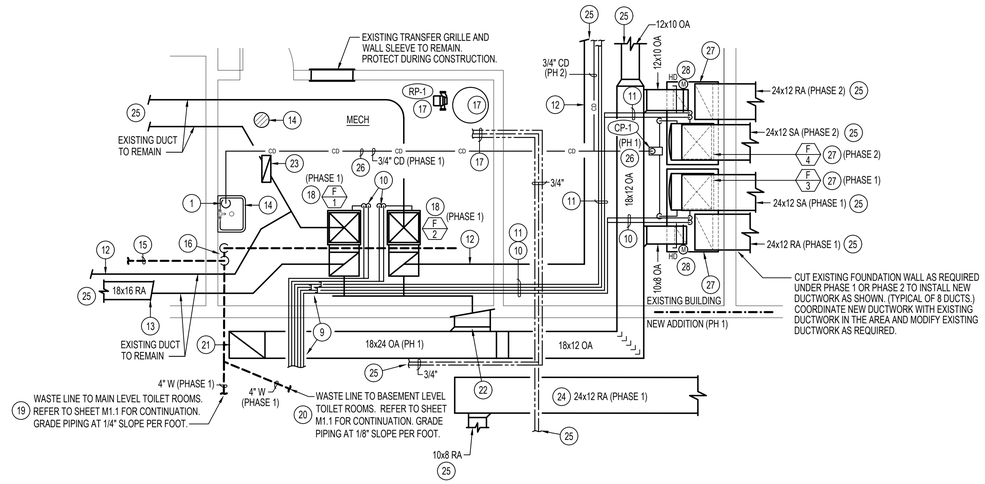
B LARGE SCALE FAMILY R.R. PLBG PLAN (MAIN LEVEL)

SCALE: 1/4" = 1'-0" (PHASE 2)



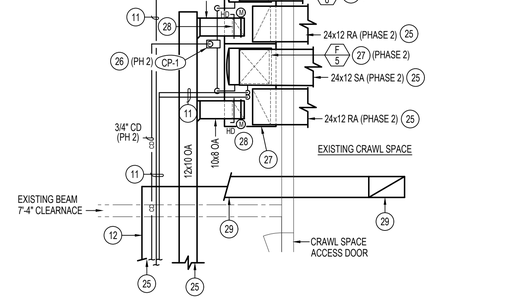
C LARGE SCALE FAMILY R.R. PLBG PLAN (BASEMENT)

SCALE: 1/4" = 1'-0" (PHASE 2)



D LARGE SCALE BASEMENT MECHANICAL ROOMS

SCALE: 1/4" = 1'-0" (PHASE 2)



E LARGE SCALE BASEMENT STORAGE ROOM

SCALE: 1/4" = 1'-0" (PHASE 2)

PLAN NOTES:

1. RISE 3/4" HOT AND COLD WATER LINE UP THRU FLOOR. RUN PIPING IN WALL TO FIXTURES ON MAIN LEVEL.
2. RISE 1/2" HOT AND COLD WATER LINES UP THRU FLOOR AND CONNECT TO FIXTURE ABOVE. DO NOT RISE LINE UP IN WALL.
3. GRADE NEW 4" WASTE LINE BELOW BASEMENT FLOOR AT 1/8" SLOPE PER FOOT AND KEEP AS LOW AS POSSIBLE. PIPING TO BE INSTALLED UNDER PHASE 2 CONSTRUCTION.
4. NEW 1-1/2" WASTE LINE TO S-1 SINK TO BE RUN ABOVE BASEMENT CEILING. COORDINATE WITH DUCTWORK.
5. HOT AND COLD WATER PIPING TO FEED BOTH BASEMENT AND MAIN LEVEL FIXTURES. RUN IN CEILING SPACE OF BASEMENT.
6. INSTALL CEILING MOUNTED EXHAUST FAN AS SCHEDULED. EXTEND EXHAUST DUCT OUT TO SOFFIT GRILLES.
7. INSTALL CEILING MOUNTED EXHAUST FAN AS SCHEDULED IN BASEMENT RESTROOMS. RISE 8x4 EXHAUST DUCT FROM EACH FAN UP IN WALL ABOVE. COORDINATE DUCTS WITH PIPING IN WALL. REFER TO LARGE SCALE PLAN BMP2.1 FOR CONTINUATION OF DUCTWORK OUT TO SOFFIT GRILLES.
8. DROP (6) SET OF REFRIGERANT LINES DOWN IN WALL. PIPING TO EXTEND FROM CRAWL SPACE TO ABOVE ROOF UNDER PHASE 1 CONSTRUCTION. SEE SHEET MP1.1 FOR CONTINUATION OF PIPING IN CRAWL SPACE AND TO SHEET MP1.2 FOR CONTINUATION OF PIPING ABOVE ROOF.
9. EXTEND ALL (6) SETS OF REFRIGERANT PIPING THRU EXISTING FOUNDATION WALL AND INTO BASEMENT MECHANICAL ROOM UNDER PHASE 1 CONSTRUCTION. CAP (3) CORRESPONDING SETS OF LINES IN BASEMENT MECHANICAL ROOM FOR FUTURE CONNECTION TO SYSTEMS F-4, F-5 AND F-6 SYSTEMS WHICH ARE INSTALLED UNDER PHASE 2 CONSTRUCTION.
10. CONNECT (3) SETS OF REFRIGERANT LINES UNDER PHASE 1 TO CORRESPONDING FURNACE SYSTEM. (FOR SYSTEMS F-1, F-2, AND F-3) . EXTEND LINES AS REQUIRED IN BASEMENT MECHANICAL ROOM TO CONNECT TO NEW OR EXISTING FURNACES. CONDENSING UNIT MARKS TO CORRESPOND WITH FURNACE MARKS.
11. CAP (3) SETS OF REFRIGERANT LINES ABOVE ROOF (FOR SYSTEMS F-4, F-5, AND F-6) UNDER PHASE 1 CONSTRUCTION. REMOVE CAP AND CONNECT THE SAME (3) SETS OF LINES TO CORRESPONDING CONDENSING UNITS UNDER PHASE 2 CONSTRUCTION. ALSO EXTEND THE SAME (3) SETS OF LINES IN BASEMENT AS REQUIRED TO CONNECT TO CORRESPONDING FURNACES DURING PHASE 2. CONDENSING UNIT MARKS TO CORRESPOND WITH FURNACE MARKS.
12. ALL EXISTING DUCTWORK IN CRAWL SPACE OF BASEMENT TO REMAIN UNLESS NOTED OTHERWISE. EXISTING BOOTS UP THRU FLOOR TO FLOOR REGISTERS TO REMAIN ALSO. PROTECT DURING CONSTRUCTION.
13. CONNECT NEW 18x16 RETURN AIR DUCT TO EXISTING RETURN AIR DUCT IN CRAWL SPACE. FIELD VERIFY EXACT SIZE OF EXISTING DUCT AND PROVIDE NEW TRANSITION AS REQUIRED. NEW DUCT TO BE RUN IN CRAWL SPACE FOR NEW RETURN GRILLES IN FLOOR ABOVE. REFER TO SHEET MP1.1 FOR DUCT ROUTING. COORDINATE NEW DUCT WITH EXISTING SUPPLY DUCT IN THE SAME GENERAL AREA.
14. EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING TO REMAIN. PROTECT DURING CONSTRUCTION.
15. EXISTING WASTE PIPING IN MECHANICAL ROOM AND IN CRAWL SPACE TO REMAIN. PROTECT EXISTING PIPING DURING CONSTRUCTION.
16. CONNECT NEW 4" WASTE LINE TO EXISTING 4" CAST IRON WASTE PIPING BELOW BASEMENT FLOOR FOR NEW FIXTURES. CUT AND PATCH EXISTING BASEMENT FLOOR AS REQUIRED TO CONNECT NEW PIPING. NEW PIPING TO BE CONNECTED AT 87'-9" INVERT ELEVATION (OR LOWER) TO ALLOW PROPER GRADING OF NEW PIPING TO FIXTURES. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND ELEVATION OF EXISTING PIPING AFTER FLOOR HAS BEEN REMOVED.
17. EXISTING WATER HEATER AND ALL ASSOCIATED PIPING TO REMAIN UNLESS NOTED OTHERWISE. CONNECT NEW 3/4" HOT AND COLD WATER LINES TO EXISTING PIPING FOR NEW ADDITIONS. PROVIDE AND INSTALL NEW HOT WATER RECIRCULATION PUMP ON NEW 3/4" HOT WATER RETURN LINE. REFER TO WATER HEATER PIPING DIAGRAM D/MP3.1 FOR TYPICAL PIPING CONNECTIONS.
18. EXISTING ELECTRIC FURNACE AND DX COOLING COIL TO REMAIN. CAPTURE ALL EXISTING 410a REFRIGERANT FROM SYSTEM AND RETAIN TO RE-CHARGE SYSTEM AFTER CHANGES IN THE REFRIGERANT LINES HAVE BEEN MADE.
19. GRADE NEW WASTE PIPING IN CRAWL SPACE AT 1/4" SLOPE PER FOOT. PIPING TO BE INSTALLED UNDER PHASE 1 CONSTRUCTION.
20. GRADE NEW 4" WASTE LINE AT 1/8" SLOPE PER FOOT AND KEEP AS LOW AS POSSIBLE. CUT EXISTING BASEMENT WALL AND FLOOR AS REQUIRED TO CONNECT TO EXISTING WASTE LINE INSIDE BUILDING. (SEE NOTE 16.) PIPING TO BE INSTALLED UNDER PHASE 1 CONSTRUCTION.
21. 24x18 OUTSIDE AIR DUCT DOWN FROM GOOSENECK ON ROOF. RUN 18" WIDE BY 24" DEEP DUCT THRU NEW CRAWL SPACE AS SHOWN. COORDINATE WITH OTHER DUCTWORK AND WITH PIPING. KEEP AS HIGH AS POSSIBLE.
22. EXISTING OUTSIDE AIR DUCT THRU EXISTING FOUNDATION WALL TO REMAIN. EXTEND AND TRANSITION EXISTING DUCT AS REQUIRED TO CONNECT TO NEW 18x24 DUCT IN CRAWL SPACE. FIELD VERIFY SIZE OF EXISTING DUCT.
23. NEW FLOOR REGISTER IN FLOOR ABOVE. PROVIDE FULL SIZED BOOT THRU FLOOR AND CONNECT TO EXISTING SUPPLY AIR DUCT IN BASEMENT MECHANICAL ROOM.
24. INSTALL NEW RIGID DUCTWORK AS SHOWN IN CRAWL SPACE. COORDINATE WITH OTHER DUCTWORK AND WITH PIPING.
25. REFER TO SHEET MP1.1 FOR CONTINUATION OF PIPING AND/OR DUCTWORK IN BASEMENT OR CRAWL SPACE.
26. PROVIDE CONDENSATE PUMP SCHEDULED AND MOUNT ON FLOOR. CONNECT 3/4" DRAIN LINE FROM EACH FURNACE TO RECEIVING TANK. RISE DISCHARGE LINE UP AND RUN NEAR BASEMENT CEILING TO EXISTING WALL MOUNTED SERVICE SINK AS SHOWN. COORDINATE PIPING WITH BUILDING STRUCTURE, OTHER PIPING, AND DUCTWORK. KEEP PIPING AS HIGH AS POSSIBLE. SUPPORT PIPING AS REQUIRED SO THERE ARE NO SAGS IN LINE.
27. INSTALL NEW ELECTRIC FURNACE WITH MATCHING DX COOLING COIL IN BASEMENT UNDER PHASE 1 CONSTRUCTION. MOUNT UNIT ON 14" HIGH RETURN AIR PLENUM AND RISE SUPPLY DUCT UP AS HIGH AS POSSIBLE IN BASEMENT. REFER TO DETAIL C/MP3.1 FOR TYPICAL DETAILS OF PLENUM BASE CONSTRUCTION AND FURNACE INSTALLATION.
28. DROP OUTSIDE AIR DUCT DOWN AND CONNECT TO TOP OF RETURN AIR PLENUM. PROVIDE MOTORIZED DAMPER, DUCT ACCESS DOOR AND MANUAL BALANCING DAMPER IN EACH DUCT. (TYPICAL OF 4 FURNACE SYSTEMS.) REFER TO DETAIL K/MP3.1 FOR TYPICAL INSTALLATION DAMPERS.
29. EXTEND EXISTING RETURN AIR DUCT AS REQUIRED FOR NEW LOCATION OF EXISTING RETURN AIR GRILLE IN FLOOR ABOVE. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING DUCT. NEW DUCT TO MATCH EXISTING SIZE. CUT EXISTING FOUNDATION WALL AS REQUIRED FOR NEW DUCTWORK.

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PROJECT #: 23-119

BASEMENT MECH & PLBG FLOOR PLAN

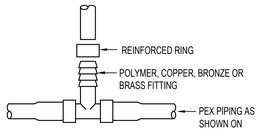
SHEET: 4 / 6

MP2.1

SCALE: 1/8" = 1'-0"

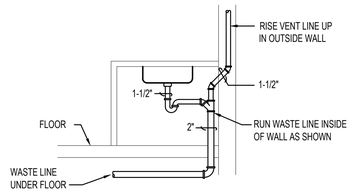
THIS TYPE (COLD EXPANSION) OF FITTING REQUIRES THAT THE PEX PIPING, WITH REINFORCING PEX RING PLACED OVER THE END OF THE PIPE, THE PIPE IS EXPANDED BEFORE THE FITTING IS INSERTED INTO THE PIPE END. THE EXPANDED PIPE END IS ALLOWED TO RETRACT ONTO THE FITTING TO FORM THE SEAL. THE MEMORY OF THE PIPE ALLOWS IT TO TIGHTEN OVER THE FITTING. AN EXPANDER TOOL IS REQUIRED TO EXPAND THE PIPE AND THE PEX RING TOGETHER.

ALL JOINTS (TEES. ELBOWS, COUPLINGS, ETC.) ARE JOINTED SIMILARLY.

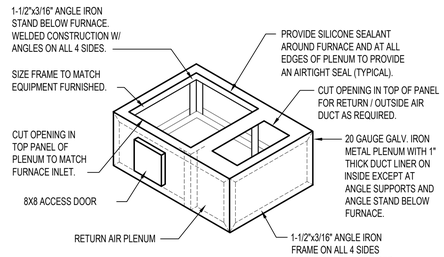


NOTE:
STAINLESS STEEL CAMP BANDS ARE ALSO PERMITTED FOR REINFORCING RING.

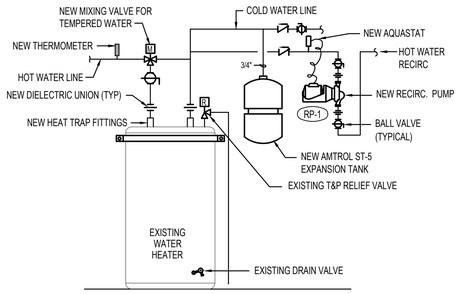
A | PEX PIPE FITTING DETAILS | NO SCALE



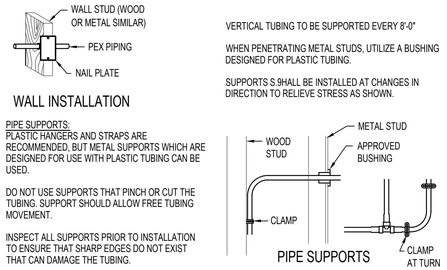
B | VENT IN OUTSIDE WALL DETAIL | NO SCALE



C | RETURN AIR PLENUM DETAIL | NO SCALE



D | WATER HEATER PIPING DIAGRAM | NO SCALE



WALL INSTALLATION

PIPE SUPPORTS:
PLASTIC HANGERS AND STRAPS ARE RECOMMENDED, BUT METAL SUPPORTS WHICH ARE DESIGNED FOR USE WITH PLASTIC TUBING CAN BE USED.

DO NOT USE SUPPORTS THAT PINCH OR CUT THE TUBING. SUPPORT SHOULD ALLOW FREE TUBING MOVEMENT.

INSPECT ALL SUPPORTS PRIOR TO INSTALLATION TO ENSURE THAT SHARP EDGES DO NOT EXIST THAT CAN DAMAGE THE TUBING.

VERTICAL TUBING TO BE SUPPORTED EVERY 8'-0"

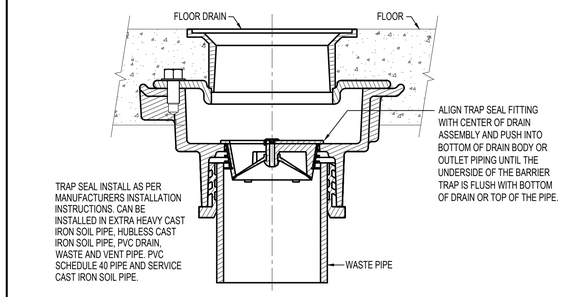
WHEN PENETRATING METAL STUDS, UTILIZE A BUSHING DESIGNED FOR PLASTIC TUBING.

SUPPORTS S 9HALL BE INSTALLED AT CHANGES IN DIRECTION TO RELIEVE STRESS AS SHOWN.

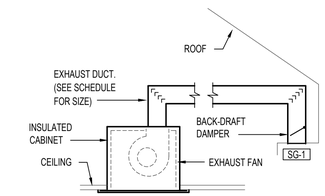
PIPE SUPPORTS

DO NOT USE IN ANY APPLICATION WHERE TUBING WILL BE EXPOSED TO DIRECT SUNLIGHT.

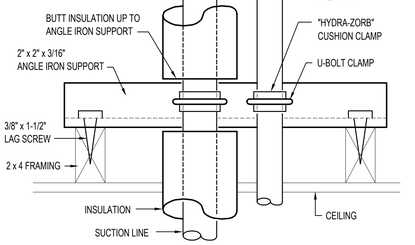
E | PEX PIPE INSTALLATION DETAILS | NO SCALE



F | TRAP SEAL INSTALLATION DETAIL | NO SCALE



G | EXHAUST FAN INSTALLATION DETAIL | NO SCALE



H | REF. PIPING SUPPORT AT CEILING OR FLOOR | NO SCALE

KEEP TUBING A MINIMUM OF 12" VERTICALLY OR 6" HORIZONTALLY FROM SOURCES OF HIGH HEAT SUCH AS LIGHT FIXTURES, FLUES OR HEATING EQUIPMENT.

NOTE:
USE ONLY CONTINUOUS LENGTH TUBING (NO FITTINGS) WHEN INSTALLING PEX UNDER OR WITHIN A SLAB. PROTECT PEX TUBING WITH NONMETALLIC SLEEVES WHERE IT PENETRATES A SLAB OR FOUNDATION WALL.

MIN. CLEARANCES

TUBING SIZE	MIN. RADIUS BENDING
3/8"	4"
1/2"	5"
3/4"	7"
1"	9"

DO NOT CRUSH OR KINK TUBING

DO NOTE DRAG TUBING OVER ROUGH TERRAIN, ROCKS, OR ANY SURFACE THAT CAN CUT, PUNCTURE OR DAMAGE TUBING WALL.

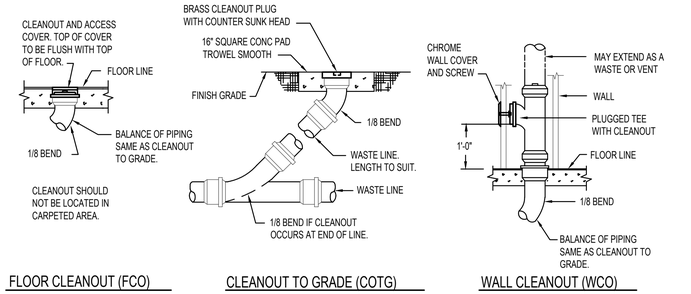
TUBING AND FITTINGS SHALL BE STORED UNDERCOVER FOR CLEANLINESS AND TO AVOID EXPOSURE TO SUNLIGHT. CONSULT MANUFACTURER FOR RECOMMENDED LIMITS TO OUTSIDE STORAGE.

J | PEX PIPE HANDLING DETAILS | NO SCALE

K | TYPICAL OUTSIDE AIR DUCT DETAIL | NO SCALE

L | SUSPENDED PIPE SUPPORT | NO SCALE

M | REFRIGERANT PIPING DIAGRAM | NO SCALE

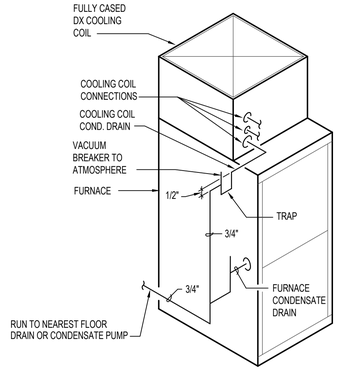


FLOOR CLEANOUT (FCO)

CLEANOUT TO GRADE (COTG)

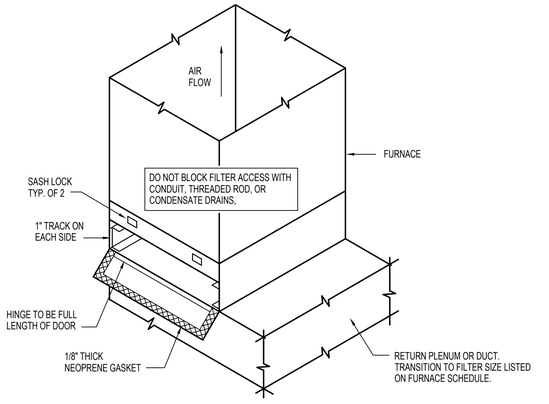
WALL CLEANOUT (WCO)

N | CLEAN OUT DETAILS | NO SCALE



NOTE:
DO NOT RUN CONDENSATE DRAIN PIPING IN FRONT OF FURNACE. THIS WILL ALLOW ACCESS TO FURNACE COMPONENTS AND FILTERS.

P | FURNACE PIPING DETAILS | NO SCALE



Q | EXTERNAL FILTER SECTION DETAIL | NO SCALE

PETERSON ENGINEERS

PROFESSIONAL ENGINEER — 16184 — STATE OF IDAHO — DAVID L. HANSEN — Jan 25, 2024

BURLEY PUBLIC LIBRARY
CITY OF BURLEY
1300 Miller Ave, Burley, ID 83318

DATE: 1/25/24

DRAWN BY: M JENSEN

CHECKED BY: D HANSEN

PROJECT #: 23-119

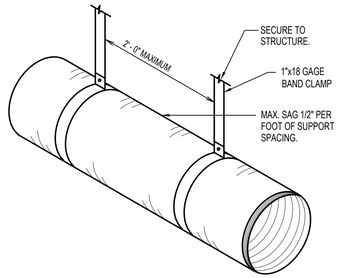
MECH & PLBG DETAILS

SHEET: 5 / 6

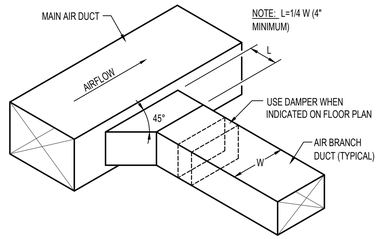
MP3.1

SCALE: NONE

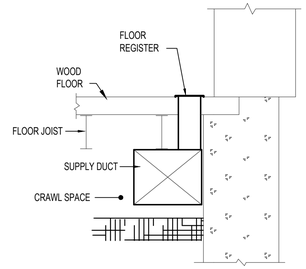
S:\2000-20\23\23008 Burley Library Add\CAD\23008-MP3.1.dwg Feb 28, 2024 - 7:12am



A | FLEXIBLE DUCT SUPPORT | NO SCALE



B | RECTANGULAR DUCT FITTING | NO SCALE



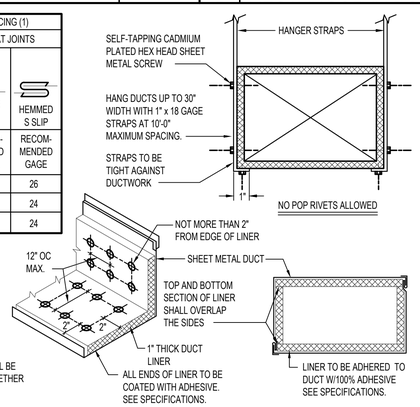
C | FLOOR REGISTER DETAIL | NO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1) MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS: DRIVE SLIP RECOM-MENDED GAGE	AT JOINTS: HEMMED S SLIP RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	26	26
13 - 18	24	NONE REQUIRED	24	24
19 - 30	24	1"x1"x1/8" @ 60 IN	-	24

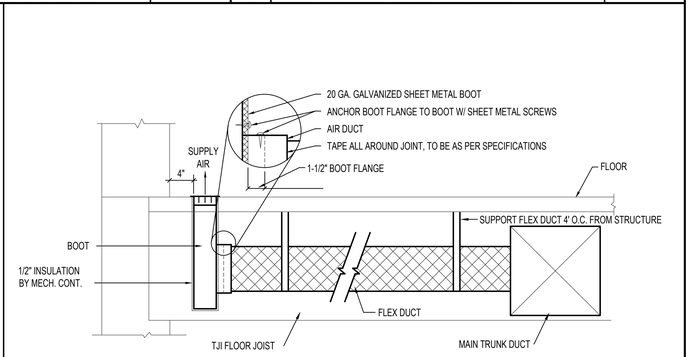
(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

METAL FASTENERS - OMARK INSULPINS, DURO DYNE FASTENERS OR GRIPNAILS.

GRIP NAILS SHALL BE INSTALLED BY GRIPNAIL AIR HAMMER OR BY AUTOMATIC FASTENER EQUIP.

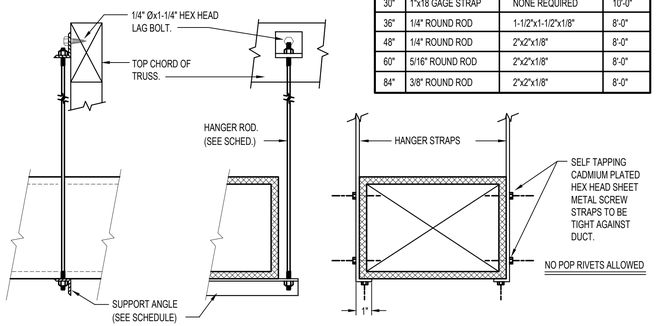


D | DUCT CONSTRUCTION AND HANGER DETAILS | NO SCALE

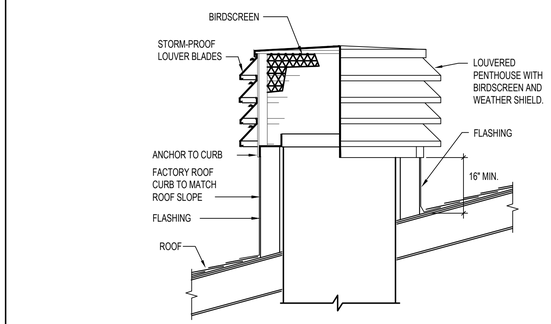


E | UNDERFLOOR DUCT & BOOT CONNECTION DETAIL | NO SCALE

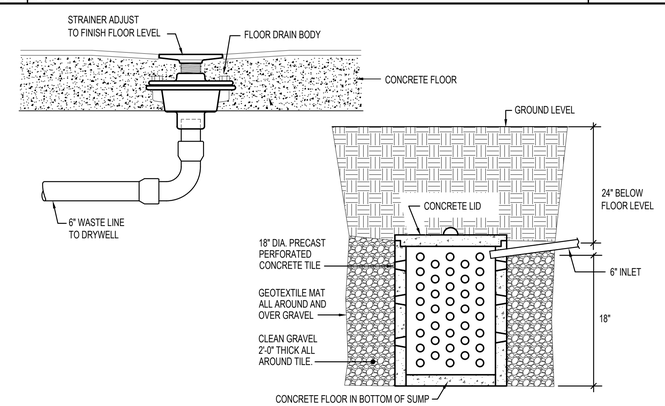
HANGER SIZES FOR RECTANGULAR DUCT			
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"x18 GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1-1/2"x1-1/2"x1/8"	8'-0"
48"	1/4" ROUND ROD	2"x2"x1/8"	8'-0"
60"	5/16" ROUND ROD	2"x2"x1/8"	8'-0"
84"	3/8" ROUND ROD	2"x2"x1/8"	8'-0"



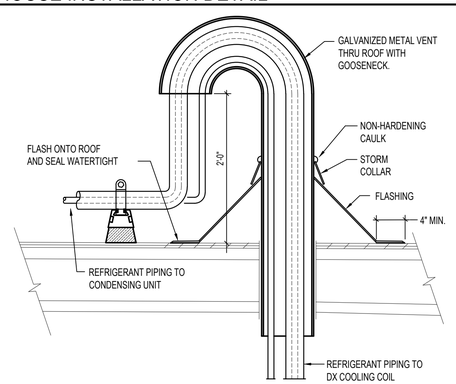
F | DUCT STRAP HANGER DETAIL | NO SCALE



G | PENTHOUSE INSTALLATION DETAIL | NO SCALE



H | FRENCH DRAIN INSTALLATION DETAIL | NO SCALE



J | REFRIGERANT PIPING THRU ROOF DETAIL

FURNACE SCHEDULE

SYM.	TYPE	FAN CFM	FAN SP_s	FAN H.P.	HEATING COIL KW	HEATING COIL STEPS	HEATING COIL BTU	DX COOLING COIL BTU	DX COOLING COIL LAT	CHAR	FUSE QTY/SIZE	CONTROL	OA	REMARKS (1)(2)
F 1	EXISTING TO REMAIN	---	---	---	---	---	---	---	---	208/60/1	---	EXISTING WALL STAT	440	EXISTING ELECTRIC FURNACE TO REMAIN.
F 2	EXISTING TO REMAIN	---	---	---	---	---	---	---	---	208/60/1	---	EXISTING WALL STAT	440	EXISTING ELECTRIC FURNACE TO REMAIN.
F 3	ELECTRIC UP-FLOW (PHASE 1)	1800	.75"	3/4	30	3	94.2000	60,000	55°F	208/60/3	(6) 60	WALL STAT	160	CARRIER FV4CNB006 WITH DX COOLING COIL AND KFCEH35001F30 ELECTRIC HEATING COIL.
F 4	ELECTRIC UP-FLOW (PHASE 2)	1800	.75"	3/4	30	3	94.2000	60,000	55°F	208/60/3	(6) 60	WALL STAT	350	CARRIER FV4CNB006 WITH DX COOLING COIL AND KFCEH35001F30 ELECTRIC HEATING COIL.
F 5	ELECTRIC UP-FLOW (PHASE 2)	1800	.75"	3/4	30	3	94.2000	60,000	55°F	208/60/3	(6) 60	WALL STAT	350	CARRIER FV4CNB006 WITH DX COOLING COIL AND KFCEH35001F30 ELECTRIC HEATING COIL.
F 6	ELECTRIC UP-FLOW (PHASE 2)	1800	.75"	3/4	30	3	94.2000	60,000	55°F	208/60/3	(6) 60	WALL STAT	350	CARRIER FV4CNB006 WITH DX COOLING COIL AND KFCEH35001F30 ELECTRIC HEATING COIL.

(1) MATCH NEW THERMOSTATS WITH EXISTING (2) PROVIDE CONDENSATE FLOW OVER-FLOW SWITCH WITH EACH NEW AND EXISTING FURNACE.

CONDENSING UNIT SCHEDULE

SYM.	BTU	EAT	CHAR.	MCA	MCOP	WEIGHT	REFRIGERANT PIPING LIQUID	REFRIGERANT PIPING SUCTION	REMARKS
CU 1	EXISTING	95°F	208-230/1Ø	37.5	60	250#	3/8"	7/8"	EXISTING CARRIER 25HCB660A0030032030 WITH 410a REFRIGERANT
CU 2	EXISTING	95°F	208-230/1Ø	37.5	60	250#	3/8"	7/8"	EXISTING CARRIER 25HCB660A0030032030 WITH 410a REFRIGERANT
CU 3	60,000	95°F	208-230/3Ø	21.4	30	250#	3/8"	1-1/8"	CARRIER 24ABB360A0N50 WITH 410a REFRIGERANT, LOW AMBIENT 'HARD-START' KIT, AND COIL HAIL GUARDS
CU 4	60,000	95°F	208-230/3Ø	21.4	30	250#	3/8"	1-1/8"	CARRIER 24ABB360A0N50 WITH 410a REFRIGERANT, LOW AMBIENT 'HARD-START' KIT, AND COIL HAIL GUARDS
CU 5	60,000	95°F	208-230/3Ø	21.4	30	250#	3/8"	1-1/8"	CARRIER 24ABB360A0N50 WITH 410a REFRIGERANT, LOW AMBIENT 'HARD-START' KIT, AND COIL HAIL GUARDS
CU 6	60,000	95°F	208-230/3Ø	21.4	30	250#	3/8"	1-1/8"	CARRIER 24ABB360A0N50 WITH 410a REFRIGERANT, LOW AMBIENT 'HARD-START' KIT, AND COIL HAIL GUARDS

EXHAUST FAN SCHEDULE

SYM.	TYPE	C.F.M.	S.P.E.	WATTS	CHAR.	R.P.M.	CONTROL	DUCT SIZE	SONES	REMARKS
EF 1	CEILING MOUNTED	140	.25"	100	120/60/1	710	WITH LIGHTS	10 x 4	2.2	TWIN CITY T150 WITH BACK-DRAFT DAMPER AND DUCT TO SOFFIT GRILLE
EF 2	CEILING MOUNTED	140	.25"	100	120/60/1	710	WITH LIGHTS	10 x 4	2.2	TWIN CITY T150 WITH BACK-DRAFT DAMPER AND DUCT TO SOFFIT GRILLE
EF 3	CEILING MOUNTED	70	.25"	87	120/60/1	640	WITH LIGHTS	8 x 4	1.3	TWIN CITY T100 WITH BACK-DRAFT DAMPER AND DUCT TO SOFFIT GRILLE
EF 4	CEILING MOUNTED	70	.25"	87	120/60/1	640	WITH LIGHTS	8 x 4	1.3	TWIN CITY T100 WITH BACK-DRAFT DAMPER AND DUCT TO SOFFIT GRILLE
EF 5	CEILING MOUNTED	70	.25"	87	120/60/1	640	WITH LIGHTS	8 x 4	1.3	TWIN CITY T100 WITH BACK-DRAFT DAMPER AND DUCT TO SOFFIT GRILLE
EF 6	CEILING MOUNTED	70	.25"	87	120/60/1	640	WITH LIGHTS	8 x 4	1.3	TWIN CITY T100 WITH BACK-DRAFT DAMPER AND DUCT TO SOFFIT GRILLE

GRILLE AND REGISTER SCHEDULE

SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	N.C.	REMARKS
CD-1	18 x 12		600	STEEL	WHITE	IN DUCT	NO	< 20	PRICE SMD WITH BEVELED FRAME AND OB DAMPER
CD-2	10 x 6		50-100	STEEL	WHITE	6"Ø	NO	< 20	PRICE 520D WITH NARROW FRAME AND OPPOSED BLADE DAMPEER
FR-1	18 x 6		100-200	ALUM	SELECTED BY ARCHITECT	18 x 6 BOOT	NO	< 20	PRICE FLG-26C WITH 750 HEAVY-DUTY- FLANGED BORDER AND OPPOSED BLADE DAMPER.
FR-2	12 x 6		50-120	ALUM	SELECTED BY ARCHITECT	12 x 6 BOOT	NO	< 20	PRICE FLG-26C WITH 750 HEAVY-DUTY- FLANGED BORDER AND OPPOSED BLADE DAMPER.
FR-3	22 x 6		150-260	ALUM	SELECTED BY ARCHITECT	22 x 6 BOOT	NO	< 20	PRICE FLG-26C WITH 750 HEAVY-DUTY- FLANGED BORDER AND OPPOSED BLADE DAMPER.
RG-1	12 x 6		50-150	ALUM	SELECTED BY ARCHITECT	12 x 6 BOOT	NO	< 20	PRICE FLG-25C WITH 750 HEAVY-DUTY- FLANGED BORDER. (NO DAMPER REQUIRED)
RG-2	10 x 4		50-100	ALUM	SELECTED BY ARCHITECT	10 x 4 BOOT	NO	< 20	PRICE FLG-25C WITH 750 HEAVY-DUTY- FLANGED BORDER. (NO DAMPER REQUIRED)
RG-3	18 x 18		600-1000	STEEL	WHITE	IN DUCT	NO	< 25	PRICE 535 WITH NARROW FRAME
RG-4	18 x 12		4000-600	ALUM	SELECTED BY ARCHITECT	18 x 12 BOOT	NO	< 20	PRICE 535 WITH NARROW FRAME
RG-5	10 x 6		50-100	ALUM	SELECTED BY ARCHITECT	10 x 6	NO	< 20	PRICE 535 WITH NARROW FRAME
SG-1	10 x 10		50-100	ALUM	MATCH SOFFIT COLOR	8 x 4 OR 10 x 4	NO	25	PRICE 535 WITH NARROW FRAME
PENT	29.5 x 29.5 x 18.5 24 x 24 THROAT		2000	ALUM	ANODIZED ALUM COLOR BY ARCH	18 x 18	NO	N.A.	PENNBARRY PH-F. COLOR TO BE SELECTED BY ARCHITECT.

PLUMBING FIXTURE SCHEDULE

SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
CP-1	CONDENSATE PUMP - LITTLE GIANT VCL-14ULS WITH 1 GALLON COLLECTION TANK. 50 GPM FLOW AT 10' HEAD, 3/4" DISCHARGE LINE WITH CHECK VALVE AND 6' (3-CONDUCTOR) POWER CABLE WITH 3-PRONG PLUG.(120/60/1)	---	---	---	---
FD-1	FLOOR DRAIN - ZURN Z-415 WITH 5"Ø NICKEL-BRONZE STRAINER AND 2" DEEP SEAL P-TRAP. PROVIDE TRAP SEAL WITH DRAIN. REFER TO DETAIL F/MP3.1 FOR TYPICAL INSTALLATION.	---	---	2"	2"
FD-2	AREA DRAIN - ZURN Z415B WITH 10"Ø NICKEL-BRONZE, TYPE 'B' STRAINER AND 6" WASTE LINE TO FRENCH DRAIN. SEE DETAIL H/MP3.2 FOR TYPICAL INSTALLATION.	---	---	6"	---
L-1	LAVATORY - KOHLER K-2032 "GREENWICH" WITH K-7715 OPEN GRID STRAINER, K-15992-R LEVEL HANDLE FAUCET, WALL CARRIER, 1-1/2" P-TRAP AND 1/2" STOPS. PROVIDE INSULATING JACKET ON WASTER AND HOT WATER LINES.	1/2"	1/2"	1-1/2"	1-1/2"
RP-1	HOT WATER RECIRC. PUMP - B&G SERIES LR-20BF 'LITTLE RED' WITH 4 GPM FLOW AT 8' HEAD AND 3/4" LINE CONNECTIONS. MOUNT PUMP NEAR EXISTING WATER HEATER. REFER TO DETAIL D/MP3.1.	3/4"	---	---	---
S-1	DOUBLE COMPARTMENT SINK - ELKAY MODEL ELUH311810L STAINLESS STEEL UNDERMOUNT SINK WITH MOEN 7594C GOOSENECK FAUCET WITH LEVER HANDLE AND PULL-DOWN SPRAY, LK-99 HEAVY-DUTY STRAINER AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"
U-1	URINAL - KOLHER MODEL 4984-T "FRESHMAN" WITH SLOAN REGAL FLUSH VALVE AND WALL CARRIER.	---	3/4"	2"	2"
WC-1	ADA FLUSH TANK WATER CLOSET - KOHLER K-3999 "HIGHLINE" TWO-PIECE WATER CLOSET WITH ELONGATED BOWL, K-4670C OPEN FRONT SEAT, BOLT CAPS AND TRIP LEVER HANDLE ON OPPOSITE SIDE OF GRAB BARS..	---	1/2"	4"	2"
WC-2	FLUSH TANK WATER CLOSET - KOHLER K-3575 "WELLWORTH" TWO-PIECE WATER CLOSET WITH ELONGATED BOWL, K-4670 OPEN FRONT SEAT, BOLT CAPS AND TRIP LEVER HANDLE.	---	1/2"	4"	2"

PETERSON ENGINEERS

PROFESSIONAL ENGINEER 16184 DAVID L. HANSEN STATE OF IDAHO Jan 25, 2024

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MECH & PLBG DETAILS

SHEET: 6 / 6

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LIGHTING SYMBOL SCHEDULE

NOTE: ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
F1	LIGHT FIXTURE TYPE DESIGNATION
	PARKING AREA POLE LIGHT, SINGLE OR DOUBLE HEAD AS INDICATED ON DRAWINGS. REFER TO LIGHT POLE DETAIL FOR POLE INFORMATION.
	EXTERIOR WALL MOUNTED FIXTURE
	2X4 FLUORESCENT OR LED FIXTURE
	2X2 FLUORESCENT OR LED FIXTURE
	SURFACE MOUNTED FLUORESCENT OR LED FIXTURE
	STRIP FLUORESCENT OR LED FIXTURE
	WALL MOUNTED FLUORESCENT OR LED FIXTURE
	ROUND RECESSED FIXTURE
	SURFACE OR PENDANT FIXTURE
	EXIT SIGN, WALL OR CEILING MOUNTING AS REQUIRED (SINGLE OR DOUBLE FACE) DIRECTIONAL CHEVRONS AS INDICATED; CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT THAT IS IN THE SAME AREA AS THE EXIT SIGNS.
	WALL OR CEILING MOUNTED EMERGENCY LIGHTING UNIT W/BATTERY PACK CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT THAT IS IN THE SAME AREA AS THE EMERGENCY LIGHT.
	SHADED FIXTURE INDICATES AN EMERGENCY FIXTURE. PROVIDE WITH EMERG. BATTERY PACK OR CONNECT TO EMERGENCY POWER SYSTEM (WHERE APPLICABLE). CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT THAT SERVES THE SAME AREA AS THE EMERGENCY FIXTURE. PROVIDE WITH TEST LIGHT AND SWITCH.
S ###	CEILING MOUNTED OCCUPANCY SENSOR, REFER TO OCCUPANCY SENSOR/SWITCH SCHEDULE FOR SENSOR TYPE AND ADDITIONAL INFORMATION.
###	SWITCH MOUNTED OCCUPANCY SENSOR, LOW VOLTAGE SWITCHPOD OR DIMMER SWITCH, REFER TO OCCUPANCY SENSOR/SWITCH SCHEDULE FOR TYPE AND ADDITIONAL INFORMATION.
$	SINGLE-POLE SWITCH (SEE SUB-SCRIPTS BELOW FOR ADDITIONAL INFORMATION)

LIGHT FIXTURE SUBSCRIPTS

NL NIGHT-LIGHT(CONNECT TO UNSWITCHED LEG OF CIRCUIT)

SWITCH SUBSCRIPTS

3 3-WAY SWITCH
4 4-WAY SWITCH
D DIMMER SWITCH (COMPATIBLE W/ LOAD & LTG TYPES)
F 7-DAY PROGRAMMABLE TIMER SWITCH (INTERMATIC MODEL EI500WC SERIES)
P PILOT LIGHTED SWITCH
LV LOW-VOLTAGE SWITCH (PER DWG'S)
T THERMAL-OVERLOAD SWITCH
M SWITCH SUPPLIED WITH EQUIPMENT, INSTALLED BY E.C.
WP WEATHERPROOF
2P DOUBLE POLE, SINGLE THROW SWITCH

GENERAL LIGHTING NOTES:

A. SYMBOLS SHOWN ABOVE MAY NOT REPRESENT ALL LIGHT FIXTURES USED ON PROJECT, REFER TO LIGHT FIXTURE SCHEDULE FOR ACTUAL FIXTURE INFORMATION INCLUDING FIXTURE TYPE, LAMPING, MOUNTING AND ETC.
B. JUNCTION BOXES FOR LIGHTING CIRCUITING ARE NOT SHOWN FOR CLARITY. THE E.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL JUNCTION BOXES REQUIRED FOR CIRCUITING OF ALL LIGHT FIXTURES THAT ARE NOT LISTED FOR "THROUGH-BRANCH CIRCUIT WIRING".
C. IN GENERAL ALL SWITCH-LEG CONDUCTORS MAY NOT BE SHOWN ON DRAWINGS; E.C. SHALL PROVIDE AND INSTALL CONDUCTORS AS REQUIRED TO ACHIEVE CONTROL SCHEMES INDICATED AND DESCRIBED ON DRAWINGS. INCLUDING ALL 0 - 10V DIMMING CONTROLS BETWEEN SWITCH AND FIXTURES.
D. ALL BATTERY EXIT SIGNS AND EMERGENCY LIGHTING TO BE CONNECTED TO THE UNSWITCHED LEG OF THE LIGHTING CIRCUIT IN THE AREA.

POWER SYMBOL SCHEDULE

NOTE: ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
'MSB'	ELECTRICAL SWITCHBOARD EQUIPMENT, (SEE POWER RISER AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION)
'T##'	DRY-TYPE TRANSFORMER, (SEE POWER RISER FOR ADDITIONAL INFORMATION)
'LA'	ELECTRICAL PANELBOARD, (SEE POWER RISER AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION)
	DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X
	FUSED DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X
	COMBINATION STARTER & FUSED DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED. TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X
J	JUNCTION BOX CR = CORD REEL; SEE DRAWINGS FOR INFORMATION CD = CORD DROP; SEE DRAWINGS FOR INFORMATION
	EQUIPMENT CONNECTION; COORDINATE CONNECTION WITH EQUIPMENT PRIOR TO ROUGH-IN
M	MOTOR CONNECTION
F	EXHAUST FAN CONNECTION
	POWER AND/OR DATA SERVICE POLE
FB#	FLOORBOX (SEE FLOORBOX SCHEDULE FOR ADDITIONAL INFORMATION)
	PUSHBUTTON STATION
	SPECIAL RECEPTACLE (COORDINATE NEMA TYPE WITH EQUIP.) (REFER TO PANEL SCHEDULES FOR AMPS)
	CEILING MOUNTED DUPLEX RECEPTACLE (COORDINATE PLACEMENT WITH CEILING EQUIPMENT PRIOR TO ROUGH-IN)
	DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT
	GFCI-TYPE DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT
	SPLIT-WIRED RECEPTACLE, HALF OF RECEPT. SHALL BE SWITCHED OTHER HALF SHALL HAVE CONSTANT POWER.
	DOUBLE-DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT
	GFCI-TYPE DOUBLE-DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT.

RECEPTACLE AND EQUIPMENT SUBSCRIPTS

AC ABOVE COUNTER
WP WEATHERPROOF (UL LISTED WEATHER-RESISTANT)
42" MOUNTING HEIGHT AFF OR AFG
REF REFRIGERATOR
M MICROWAVE
M/R MICROWAVE/RANGE HOOD (LOCATE ABOVE RANGE)
USB DUPLEX RECPT. WITH (2) USB CHARGING PORTS
DW DISHWASHER, INSTALL PER NEC 422.16(B)(2)
D/DW DISPOSAL/DISHWASHER, INSTALL PER NEC 422.16(B)(2)
TV RECEPT. DEDICATED TO TV; FIELD VERIFY HEIGHT W/ TV PRIOR TO ROUGH-IN.
EWC ELECTRIC WATER COOLER; PROVIDE GFCI PROTECTION PER NEC 422.5(A)
D CLOTHES DRYER (NEMA 14-30R)
R ELECTRIC RANGE, (NEMA 14-50R)
W WELDER RECEPTACLE 208/240V - NEMA 6-50R

T OR S	HVAC THERMOSTAT OR SENSOR; PROVIDE & INSTALL BACKBOX,3/4" CONDUIT AND CONDUCTORS TO ASSOCIATED HVAC UNIT. COORDINATE EXACT LOCATION & SIZE AND NUMBER OF CONDUCTORS WITH M.C.

GENERAL SPECIAL SYSTEM NOTES:

A. ALL DEVICES SHOWN AT OR NEAR MILLWORK/CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATION DRAWINGS AND MILLWORK INSTALLER TO INSURE PROPER MOUNTING HEIGHTS. CONTRACTOR SHALL ADJUST DEVICES AS NECESSARY IN ORDER TO POSITION DEVICES SUCH THAT THEY WILL NOT FALL BEHIND MILLWORK, CABINETS OR BE DIRECTLY ABOVE SINKS OR MIDWAY BETWEEN TILEWORK/WALL OR WAINSCOATING, ETC.
B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL A GFCI TYPE RECEPTACLE FOR ALL RECPTACLES SHOWN IN TOILET RMS, BATHROOMS, KITCHENS/SERVING AREAS, ROOFTOP, OUTDOORS OR WITHIN 6FT OF ANY SINK, BASIN, TUB OR FLOOR SINK AND ALL OTHER AREAS DEFINED BY THE NEC.

SPECIAL SYSTEMS SYMBOL SCHEDULE

NOTE: ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
D-X	DATA OUTLET; _= # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)
D-X	CEILING MOUNTED DATA OUTLET; _= # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)
T-X	TELEPHONE OUTLET; _= # OF TELEPHONE CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)
T/ D-X	TELEPHONE/DATA OUTLET; _= # OF TELEPHONE/DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)
FB# D-X	ELECTRICAL FLOORBOX REFER TO "ELECTRICAL FLOORBOX SCHEDULE" FOR INFORMATION. _= # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTES 1,2,3 BELOW)
### D-X	TV AND/OR AV BOX; WITH POWER, DATA AND/OR AV CONNECTIVITY ### = BOX ID: REFER TO "ELECTRICAL AV/TV BOX SCHEDULE" FOR INFORMATION. _= # OF DATA CABLES, X=CONDUIT SIZE (SEE NOTE #2 BELOW) INSTALL CONDUIT (SIZE AS INDICATED) FROM BOX TO NEAREST ACCESSIBLE CEILING SPACE W/ DATA CABLING/TERMINATIONS AS INDICATED ON DRAWINGS.
WALL (qty) ### FLOOR (qty) ###	WALL/FLOOR ELECTRICAL PATHWAY SLEEVE: INSTALL THROUGH WALL OR FLOOR AS INDICATED. SLEEVES SHALL BE ABOVE ACCESSIBLE CEILINGS IN ACCESSIBLE LOCATION, FIELD VERIFY EXACT LOCATION TO AVOID CONFLICT WITH OTHER TRADES AND UTILITIES. IF WALL/FLOOR IS NOT FIRE RATED E.C. MAY UTILIZED EMT CONDUIT SLEEVES OF EQUAL SIZE. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. (qty) = QUANTITY OF SLEEVES AT LOCATION EP2 = 2" HILTI SPEED SLEEVE CP-653-BA EP4 = 4" HILTI SPEED SLEEVE CP-653-BA

SPECIAL SYSTEMS NOTES:

1. UTILIZE 4 11/16" DEEP BOX WITH REQUIRED MUDRING AND CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING OR DATA RACK, TERMINATE WITH INSULATED THROAT BUSHING. PROVIDE QTY OF CABLES INDICATED FROM OUTLET TO NEAREST TELE/DATA ROOM. SEE DWGS FOR ADDITIONAL INFORMATION. UTILIZE J-HOOKS 3FT ON CENTER FOR SUPPORT OF CABLING WHERE CABLE TRAY IS NOT INSTALLED/SPECIFIED.
2. CONDUIT SIZE ('X' FROM ABOVE); 2='1/2", 3='3/4", 4='1", 5='1-1/4", 6='1-1/2"
3. BLANK (NO LABEL) = 4-11/16" DEEP BOX WITH REQUIRED MUDRING AND 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING/CABLE TRAY, TERMINATE WITH INSULATED THROAT BUSHING, PROVIDE PULL STRING. (UNLESS OTHERWISE NOTED)

GENERAL SPECIAL SYSTEM NOTES:

A. COMMUNICATIONS CABLES SHALL HAVE BENDS NO GREATER THAN 90 DEG.
B. CONDUITS FOR COMMUNICATIONS CABLING SHALL HAVE A MAXIMUM BEND RADIUS NOT MORE THAN 10X THE DIAMETER OF THE CONDUIT.
C. ALL COMMUNICATIONS CONDUITS SHALL BE TERMINATED WITH AN INSULATED NON-METALLIC BUSHING AT BOTH ENDS.
D. COMMUNICATIONS CONDUITS SHALL HAVE NO MORE THAN (2) 90'S WITHOUT A PULLBOX. PULL BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS AND SHALL BE SIZED AT LEASED 12X THE LARGEST CONDUIT DIAMETER IN LENGTH AND MIN. 4" DEEP AND 8" WIDE.
E. IT SHALL BE THE RESPONSIBILITY OF THE E.C. TO INSURE THAT THE PATHWAY FOR THE DATA CABLING DOES NOT CREATE CABLE LENGTHS TO EXCEEDS THE LENGTH OF 295FT FROM OUTLET TO PATCH PANEL, THIS INCLUDES SERVICE LOOPS AND PATCH CORDS.
F. WHERE CABLE TRAY IS UTILIZED IN THE PROJECT. COMMUNICATION CONDUITS ENDING AT THE CABLE TRAY SHALL EXTEND 1" OVER THE SIDE INTO THE TRAY.

CIRCUITING & GENERAL SYMBOL SCHEDULE

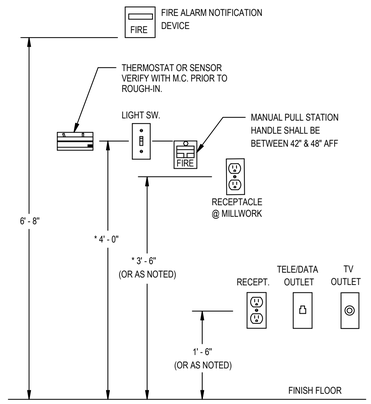
NOTE: ALL SYMBOLS MAY NOT BE USED

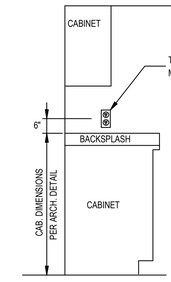
SYMBOL	DESCRIPTION
1	KEYED NOTE REFERENCE
1 / ES101	DETAIL # / SHEET REFERENCE
A-1,3,5 3/4"C.-6#12,1#12G	BRANCH CIRCUIT HOME-RUN TO PANEL INDICATED A-1,3,5 — PANEL AND CIRCUIT DESIGNATIONS 3/4"C.-6#12,1#12G QTY & SIZE OF EQUIPMENT GROUND CONDUCTOR QTY & SIZE OF NEUTRAL AND PHASE CONDUCTOR(S) SIZE OF CONDUIT
	TICK MARKS EQUIPMENT GROUNDING CONDUCTOR NEUTRAL CONDUCTOR(S) PHASE AND/OR SWITCH-LEG CONDUCTOR(S)
*25,000A	CALCULATED AVAILABLE FAULT CURRENT AT EQUIPMENT(SEE POWER RISER)
	BRANCH CIRCUIT/FEEDER CONCEALED IN CEILING OR WALL
	BRANCH CIRCUIT/FEEDER CONCEALED UNDERGROUND OR FLOOR
	NEW EQUIPMENT, DEVICES, ETC.
	EXISTING EQUIPMENT, DEVICES, ETC.
	DEMOLITION EQUIPMENT, DEVICES, ETC.

PROJECT GENERAL NOTES:

A. E.C. SHALL REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTIONS.
B. E.C. SHALL PROVIDE MINIMUM WORKING CLEARANCE AS PER NEC BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS. SEE ELECTRICAL EQUIPMENT CLEARANCE DETAIL.
C. INSTALL ALL LIGHT FIXTURES IN MECHANICAL ROOM AFTER THE MECHANICAL EQUIPMENT IS IN PLACE. ADJUST AS NECESSARY. PROVIDE CHAIN SUSPENSION KITS AS REQUIRED.
D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN(S) FOR EXACT FIXTURE LOCATIONS, CEILING TYPES, ETC.
E. E.C. SHALL PROVIDE ALL CONCRETE PADS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
F. CONFIRM EXACT LOCATIONS OF ALL TELEPHONE/DATA OUTLETS WITH OWNER PRIOR TO ROUGH-IN.
G. LOCATE SWITCHES, OUTLETS, ETC., SHOWN AT ROOM ENTRY DOORWAYS, AS CLOSE TO DOOR FRAME AS POSSIBLE, SO AS NOT RO INTERFERE WITH ROOM CABINETS, ETC.
H. SUPPORT ALL LIGHT FIXTURES INDEPENDENT OF CEILING.
I. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FOR WORK AND PAY ASSOCIATED FEES.
J. MAINTAIN 24" MIN. CLEARANCE FROM ALL COMMUNICATIONS CABLING AND ELECTRONIC BALLASTS.
K. UNLESS SPECIFICALLY INDICATED OTHERWISE, E.C. SHALL COORDINATE WITH ANY SPECIAL SYSTEMS SUPPLIER/SHOP DRAWINGS; DENTAL, MEDICAL, KITCHEN, SPECIALIZED EQUIPMENT, ETC. FOR THE EXACT ROUGH-IN REQUIREMENTS FOR THEIR EQUIPMENT. ALSO UNLESS INDICATED OTHERWISE, THE E.C. TO BE RESPONSIBLE FOR FINAL ELECTRICAL CONNECTIONS TO ALL SPECIAL EQUIPMENT.
L. ALL CONDUIT/RACEWAY/CABLES TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. IF ANY SURFACE WORK IS NECESSARY, IT SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
M. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY INVESTIGATE THE EXISTING CONDITIONS, AS THEY RELATE TO THE SCOPE OF WORK DESCRIBED. MAKE NECESSARY PROVISIONS IN THE BASE BID TO ADEQUATELY ACCOMMODATE THESE CONDITIONS.
N. DATA CABLING SYSTEM PRE-INSTALLATION CONFERENCE:
1. E.C. SHALL SCHEDULE A MEETING A MINIMUM OF FIVE CALENDAR DAYS PRIOR TO BEGINNING DATA CABLING INSTALLATION . ATTENDEES SHOULD INCLUDE OWNER'S REP., ENGINEER, GC, EC AND CABLING SUB. REFER TO SECTION 26 6210(1.4)(E) FOR ADDITIONAL INFORMATION.

TYPICAL DEVICE MOUNTING HEIGHTS:





GENERAL DETAIL NOTES:

A. ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE
B. E.C. SHALL COORDINATE ALL DEVICES HEIGHTS WITH ARCHITECTS ELEVATION/MILLWORK DWGS. TO INSURE THAT OUTLETS WILL NOT FALL BEHIND CABINETS, BACKSPLASH OR INTERFERE WITH WAINSCOTING, ETC. AND REPORT ANY CONFLICTS TO ARCHITECT "PRIOR TO ROUGH-IN"
C. ALL SWITCHES SHALL BE MOUNTED AS CLOSE TO DOOR JAMS AS POSSIBLE, COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL PLANS AND DETAILS
D. COORDINATE LIGHT SWITCH AND OUTLET HEIGHTS WITH ARCHITECTURAL WAINSCOTING AND/OR TILE WORK SO AS NOT TO FALL MIDWAY IN THESE FINISHES.

ELECTRICAL SPECIFICATIONS

1. INTENT:
Provide and install complete and operable electrical systems including but not not limited to; lighting, power, receptacles, data, fire alarm and etc.
Provide all required connections to all Mechanical and Plumbing equipment, as indicated and required, including all conduits, wiring and controls. Coordinate with mechanical contractor and drawings.

2. COMPLIANCE WITH CODES:
All work and material shall comply with all applicable codes, safety orders, laws, ordinances and regulations of governing authorities and other agencies having jurisdiction including regulations of the State and Local Fire Marshall, unless detailed as specified to a more restrictive standard or higher requirement.

3. INTERPRETATION OF DRAWINGS:
The electrical drawings are essentially diagrammatic in that all provisions necessary to conform to structural, architectural, mechanical and plumbing systems can not be shown. All installations shall be adjusted as necessary to conform and to avoid obstructions, without additional cost to the owner.
All work, material and equipment called for by notes, schedules or otherwise indicated on the drawings shall be furnished and installed as though fully set forth in these specifications.

4. VISITING THE SITE:
Contractor shall visit the site and become acquainted with conditions to be encountered. Extra funds will not be allowed due to failure to examine the site and to included existing conditions in bid price.

5. COORDINATION WITH UTILITIES:
These plans have been prepared without utility company comments. The contractor shall verify exact requirements for the electrical, telephone and communication services with the utility company representatives and provide all work and pay all costs for a complete and operating systems, as directed by the governing utilities.

6. MATERIALS AND WORKMANSHIP:
All workmanship shall be performed by skilled electricians using the best standard practices of the trade. All materials shall, unless otherwise noted, be new and in perfect condition and working order. All material for similar uses shall be of the same type, material and manufacturer for ease of future maintenance.
All equipment shall be readily accessible for maintenance and repairs. All materials, fixtures and equipment shall be covered or sealed upon installation so as to provide for safety and to insure that operation and appearance will be maintained after subsequent construction operations.

7. EXECUTION:
Raceway installation: Separate underground conduits in a common trench 4" minimum horizontally, 12" minimum from other utility lines. Minimum conduit depth shall be 18".
Coordinate conduit installation with pipes, steel, footings and ducts installed by other trades. Install conduit runs exposed to view parallel or at right angles to structural members, walls or building lines. Support conduit with one-hole malleable factory made pipe straps, fastened with screws.

8. OPERATING AND ADJUSTING:
The owner reserves the right to operate any systems of equipment prior to final completion and acceptance of the work. Such preliminary operation shall not be construed as an acceptance of any work.
Each piece of equipment and all of the systems shall be adjusted to insure proper functioning and shall be left in first class operating condition.

9. CUTTING AND PATCHING:
Do all drilling and cutting as necessary for installation of equipment or conduit. Cutting or drilling of structure is only permitted with prior approval of the owner and structural engineer.
Where cutting and patching of work is necessary, use the same materials, workmanship and finish to neatly match all surrounding work.

10. CONDUIT:
All conduit material and installation methods shall be as allowed by the NEC, local AHJ and as directed by the owner.

11. CONDUCTORS:
Type THWN or THHN copper wire insulated for 600V.
Smallest wire shall be #14 AWG unless noted otherwise.
All wiring shall be Copper unless indicated otherwise.
Type MC cable shall be permitted, provided it is installed in concealed areas and installation complies with the Local AHJ and NEC requirements.
Use "Ideal Yellow" pulling compound for all wire pulls.
Use Scotchlock connectors for all splices in #12 wire and tape bolted pressure connectors for larger wire.

12. GROUNDING:
All conduit, branch circuits, feeders and etc. shall be provided with a grounding conductor. All grounding conductors shall be insulated and green in color, size as shown.

13. WIRING DEVICES:
Devices shall be Standard type, Specification grade, color as selected by owner. Decora style devices are prohibited.
Utilize GFCI and Tamper-proof devices in all locations as defined by the NEC.
Wiring devices shall be as installed as allowed by the NEC, local AHJ.

14. DEVICE PLATES:
Devices plate type and color shall be as directed by owner and as required by the NEC.

15. LIGHTING FIXTURES:
As selected by owner and/or indicated in schedules. All light fixtures shall be installed and connected by the Electrical Contractor.

16. SERVICE EQUIPMENT & PANELBOARDS:
Service Equipment: Shall be rated as such and shall comply with local utility co. requirements. .
Panelbards: Shall be provided with typed written directories indicating loads being served.
Maintain all required clearances around equipment as required by the NEC.
All equipment dimensions to be field verified.

17. CLEAN-UP:
Upon completion of the work, prior to final inspection, thoroughly clean all exposed fixtures, trim and equipment and leave the entire installation in a neat, clean and usable condition. Remove all cement, paint, grease, oil and other foreign substances.

18. TEST:
Test all conductors for shorts, opens, grounds or other defects. Correct any defective work and re-test.
Demonstrate continuous satisfactory operation of all electrical systems and equipment.
Provide training to the owner on electrical systems as needed for owner operation and maintenance of building.

19. GUARANTEE:
Prior to final acceptance of the project, deliver to the owner a written one year guarantee on all workmanship, materials and equipment and agree to repair or replace all such defective items promptly that may occur during the warranty period; including repair or replacement of the premises that may be damaged due to faulty work and materials furnished under contract.

TELEPHONE/DATA SYSTEM SPECIFICATIONS

1.1 Summary
A. Includes But Not Limited To
1. Furnish and install all the equipment, materials, terminations and labor necessary to provide a complete CAT6 Telephone/Data and Television cabling system as described in Contract Documents including, but not limited to, raceway, outlets, modular jacks, device plates, cables, punch down blocks, backboards, cabinets, patch panels, grounding and other miscellaneous items required for a complete system.
2. Furnish and install main service raceway as described in Contract Documents and to comply with local telephone company requirements.
3. Refer to Drawings for conduit sizes and quantity of cables/jacks at each outlet location.

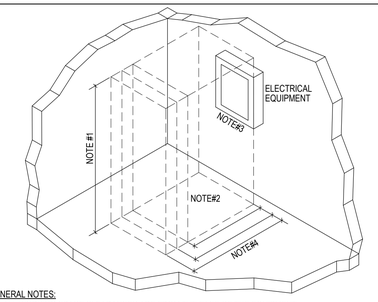
1.2 Warranty
A. A Lifetime product warranty covering all components, equipment and workmanship shall be submitted in writing with system documentation. The warranty period shall begin on the system's first use by the owner. Warranty shall be vendor supplied. Contractor warranty alone is unacceptable.
B. The project must be pre-registered with Manufacturer before installation has begun.

2.1 Components
A. Boxes shall be a 4 square deep box with single-gang mudring.
B. Telephone and Computer Network System Cable
1. 23 gauge, solid annealed copper, 4-pairs. CAT6
2. Use plenum-rated cable in ceilings and areas used for plenum air return
3. Provide Owner with patch panels, quantity as required.
4. Different colors of cabling shall be used; (Yellow - Telephone, Blue - Network)
5. Manufacturers:
a. Superior Essex
b. Alternate manufacturer with equivalent performance standard.
C. Equipment Racks (When shown on drawings)
1. Provide a minimum of (1) 19" wall mounted rack at each TTB location
2. Provide with 20A power strip, wire management and rack mounting kits.
3. Manufacturers:
a. Cooper B-line
b. Alternate manufacturer with equivalent performance standard.
D. Telephone Termination Blocks
1. UL verified CAT6.
2. 66 termination with tin lead plated IDC
E. Telephone & Network Patch Panels
1. UL verified CAT6
2. 110 termination with tin lead plated IDC
3. 19" rack mount with backboard mounting frame.
4. 48 Ports
5. Manufacturers:
a. Leviton
b. Alternate manufacturer with equivalent performance standard.
F. Telephone/Network Jacks & Faceplates
1. Wall Jacks
a. CAT6 - Color to match cable color.
2. Faceplates
a. Color to be as specified by Owner.
b. Provide and install Blank inserts as needed.
3. Manufacturers:
a. Leviton
b. Alternate manufacturer with equivalent performance standard.
G. Television Cabling, Jacks & Equipment
1. Cabling: RG6 cable, 75 Ohm
2. Terminate Cable on both ends using an ICM digital F-type Connector.
3. Faceplate color to be as specified by Owner.
4. Terminate all cabling on a Leviton# 49255-H48 Multimedia patch panel (with F-Type connector). Install patch panel in nearest rack.

3.1 Installation
A. Cables shall be installed in conduit from outlet to above nearest accessible ceiling space, install J-hooks above accessible ceiling space 3ft on center for supporting cable. Install cable from terminal board/data rack to each telephone/network outlet.
B. Terminate cables at each outlet with specified modular jack assembly.
C. Terminate cables on punch down blocks or patch panels at terminal board.
D. All Faceplates, patch panels and cables shall be labeled depicting location, Cables shall be labeled on both ends.
E. Terminate cabling according to EIA/TIA 568B.1 Standards.
F. Installation of all materials shall be as recommended by manufacturer.

3.2 Quality Assurance
A. Comply with applicable portions of NEC ANSI/EIA/TIA 568 as to type products used and installation of components. Provide products and materials which have been UL-listed and labeled.
B. Cabling system shall meet the performance requirements of the ANSI/TIA/EIA-568-B Standards (Annex E).
C. Each cable and patch cable shall be tested from the outlet location to the patch panel, the system shall be tested to Category 6 Level II compliance. The test path shall include workstation jacks, Horizontal cabling and patch panels. Contractor shall replace any equipment or cabling that fails and retest. Provide Owner with complete test reports of cabling system.

ELECTRICAL EQUIP. CLEARANCE



GENERAL NOTES:

A. ALL WORKING SPACE CLEARANCES ARE FROM THE FACE OF THE EQUIPMENT.

NOTES:

1. THE MINIMUM HEADROOM OF WORKING SPACE SHALL BE 6 1/2FT.
2. THE WIDTH OF THE WORKING SPACE SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THE PANEL DOOR SHALL OPEN AT LEAST 90 DEGREES.
3. ALL CIRCUIT BREAKERS, WHEN IN THIER HIGHEST POSITION, SHALL NOT BE MORE THAN 6FT 7 IN. ABOVE THE FINISHED FLOOR.
4. 3FT CLEARANCE IF 0-150V TO GROUND, 3.5FT CLEARANCE IF 151-600V TO GROUND. 4FT IF EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

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ELECTRICAL SYMBOLS & DETAILS

SHEET: 1 / 8
E0.0
SCALE: PER PLAN

PROFESSIONAL ENGINEER REGISTERED 13053 2/7/24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2361

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
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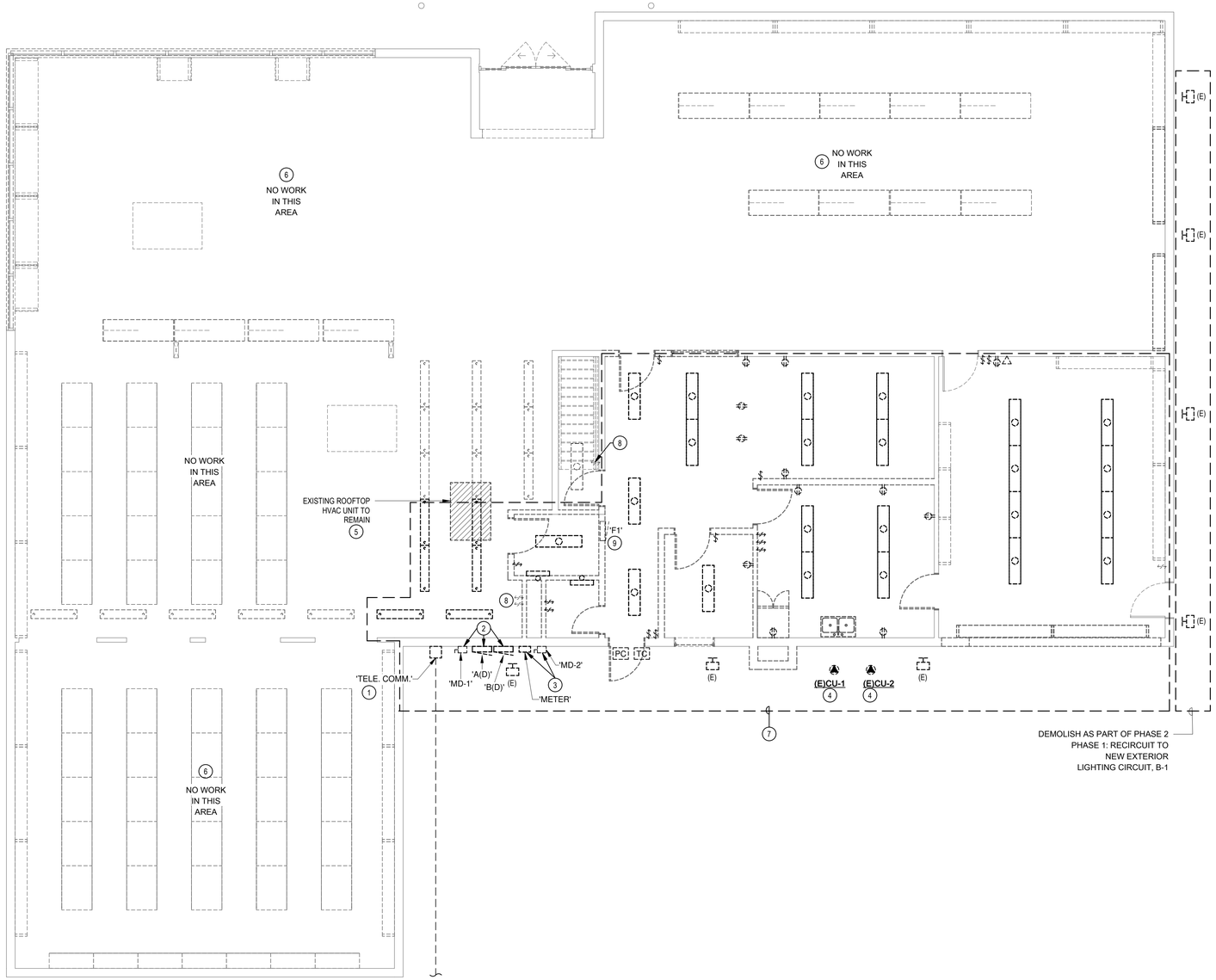
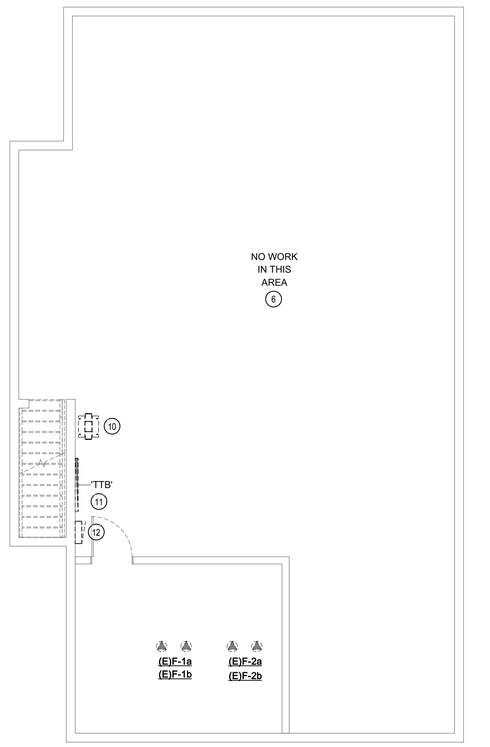


1 EXISTING MAIN FLOOR ELECTRICAL PLAN

SCALE: 3/16" = 1'-0"

0" 4' 8'

NORTH



2 EXISTING BASEMENT ELECTRICAL PLAN

SCALE: 3/16" = 1'-0"

0" 4' 8'

NORTH

GENERAL NOTES:

A. ALL EXISTING ELECTRICAL MAY NOT APPEAR ON THESE PLANS, E.C. SHALL FIELD LOCATED ALL EXISTING DEVICES & EQUIPMT.
B. PROVIDE AND INSTALL BLANK COVERS ON ALL UNUSED SWITCH/OUTLET/J-BOXES WHERE REQUIRED.
C. ALL WALL DEVICES THAT ARE EXISTING TO REMAIN, SHALL BE ADAPTED TO NEW WALL COVERINGS, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS, THICKNESS, ETC.
D. PRIOR TO THE START OF ANY DEMOLITION WORK, DISCONNECTING ANY POWER AND OR TELE/DATA SYSTEMS, THE CONTRACTOR SHALL COORDINATE DOWN-TIME WITH THE OWNER.
E. REFER TO ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION, DETAILS, ETC.
F. REMOVE OR RELOCATE ELECTRICAL AS NECESSARY FOR NEW WORK.
G. WHERE EXISTING CIRCUITS ARE TO BE RE-USED, EXTEND AS NECESSARY, MAINTAIN ELECTRICAL CONTINUITY TO DOWNSTREAM EQUIPMENT TO REMAIN.
H. EXISTING SHOWN TO REMAIN, MAY NEED TO BE REMOVED AND RE-INSTALLED ONLY AS NECESSARY FOR EXTENDING OR MODIFICATION OF EXISTING CIRCUITS OR WIRING.
I. REFER TO MECHANICAL PLANS FOR EXTENT OF MECHANICAL EQUIPMENT TO BE REMOVED OR RELOCATED.
J. REMOVE ALL UNUSED EQUIPMENT WIRING, CONDUIT AND BOXES IN ALL AREAS. ABANDON ONLY IN CONCEALED AREAS.
K. CONTRACTOR MAY UTILIZE ANY EXISTING CONDUIT WHERE COMPATIBLE WITH NEW DESIGN, AND IF IN GOOD CONDITION AND COMPLIES WITH SPECIFICATIONS.
L. WHEN ANY MODIFICATIONS ARE MADE TO ANY EXISTING ELECTRICAL PANEL TO REMAIN, CONTRACTOR TO PROVIDE NEW TYPE WRITTEN INDEX TO REFLECT ALL NEW AND EXISTING LOADS.
M. REMOVE ALL EQUIPMENT, RACEWAYS, CABLES,ETC. NOT USED IN FINISHED AREAS.

(#) KEY NOTES:

1 EXISTING TELE/COMM SERVICE TO BUILDING TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. E.C. SHALL CONTACT/COORDINATE WITH LOCAL UTILITY CO. AND OWNER FOR RELOCATION/RECONNECTION OF TELE/COMM. SERVICE TO BUILDING AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.

2 EXISTING SERVICE DISCONNECT, PANELS AND GUTTER TO BE DISCONNECTED AND REMOVED IN THERE ENTIRETY AND REPLACED WITH NEW PANEL 'A'. E.C. SHALL DISCONNECT AND REMOVE ASSOCIATED OVERHEAD SERVICE CONDUIT/CONDUCTORS AS REQUIRED. NEW PANEL 'A' SHALL BE RE-FEED ALL EXISTING BRANCH CIRCUITS/FEEDERS THAT ARE TO REMAIN, REFER TO POWER RISER DIAGRAMS AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION. COORDINATE DEMOLITION OF SERVICE AND INSTALLATION OF NEW EQUIPMENT WITH OWNER AND BURLEY CITY ELECTRICAL DEPT. PRIOR TO ORDERING ANY NEW EQUIPMENT/PANELS.

3 EXISTING METER AND SERVICE DISCONNECT SUPPLING EXISTING ROOFTOP HVAC UNIT, E.C. SHALL DISCONNECT AND REMOVE EXISTING EQUIPMENT AND ASSOCIATED OVERHEAD SERVICE CONDUIT/CONDUCTORS AS REQUIRED. EXISTING HVAC UNIT SHALL BE RE-FED FROM NEW SERVICE EQUIPMENT. REFER TO POWER RISER DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE DEMOLITION WITH OWNER AND BURLEY CITY ELECTRICAL DEPT.

4 EXISTING COND. UNITS TO BE RELOCATED TO ROOF BY M.C. E.C. SHALL ELECTRICALLY DISCONNECT AND REMOVE ASSOCIATED CONDUIT/CONDUCTORS FOR RELOCATION. E.C. SHALL RECONNECT TO EXISTING CIRCUITS ONCE UNITS HAVE BEEN RE-INSTALLED.

5 EXISTING ROOFTOP UNIT TO REMAIN ACTIVE, E.C. SHALL RE-FEED UNIT FROM NEW ELECTRICAL SERVICE PANEL, REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

6 ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING AND ETC. IN THIS AREA SHALL REMAIN ACTIVE, UNLESS NOTED OTHERWISE. LOCATE AND PROTECT DURING CONSTRUCTION, MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DEVICES AS NEEDED.

7 ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, LIGHTING, ETC. WITHIN THIS AREA SHALL BE DISCONNECTED AND REMOVED (UNLESS INDICATED OTHERWISE) AS REQUIRED TO ACCOMMODATE REMODEL/NEW CONSTRUCTION. E.C. SHALL MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DOWNSTREAM EQUIPMENT/DEVICES THAT ARE TO REMAIN.

8 EXISTING LIGHTING CONTROLS TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. MODIFY/EXTEND EXISTING CONDUIT/CONDUCTORS TO NEW LOCATION AS REQUIRED TO MAINTAIN ORIGINAL FUNCTIONALITY.

9 EXISTING FLUSH MOUNTED ELECTRICAL PANEL TO BE DISCONNECTED/REMOVED AND REPLACED WITH NEW AS REQUIRED TO ACCOMMODATE REMODEL. E.C. SHALL PULL BACK AND EXTEND EXISTING FEEDER AND ALL BRANCH CIRCUITS THAT ARE TO REMAIN ACTIVE FOR RECONNECTION TO NEW PANEL. PROVIDE AND INSTALL NEW 200A MLO, 30 CRKT FLUSH MOUNTED LOAD CENTER PANEL WITH 20A/1P BREAKERS FOR RECONNECTON OF EXISTING BRANCH CIRCUITS. FIELD VERIFY ALL EXISTING BRANCH CIRCUITS AND EXISTING FEEDER ROUTING.

10 EXISTING DATA RACK TO REMAIN ACTIVE, LOCATE AND PROTECT. PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED FOR TERMINATION OF NEW DATA CABLING.

11 EXISTING TELECOM. DEMARC EQUIPMENT, E.C. SHALL COORDINATE WITH LOCAL TELECOMM. PROVIDE AND OWNER IN REGARDS TO NEW SERVICE AS REQUIRED TO ACCOMMODATE NEW ADDITION AND CONSTRUCTION.

12 EXISTING ELECTRICAL PANEL TO REMAIN ACTIVE, LOCATE AND PROTECT DURING CONSTRUCTION.

PROFESSIONAL ENGINEER
REGISTERED
13053
2/7/24
STATE OF IDAHO
SHAWN A. MEADOR

PROJECT #: 2361
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EXISTING ELECTRICAL PLANS

SHEET: 2 / 8

E0.1

SCALE: PER PLAN

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDING BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

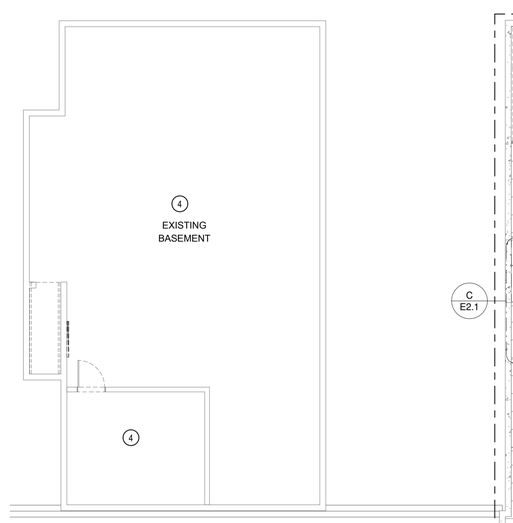
(#) KEY NOTES:

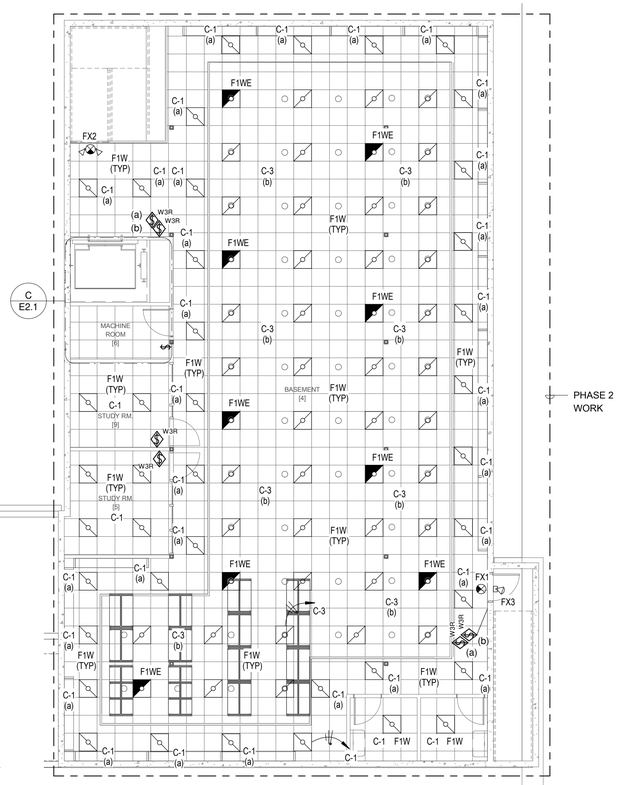
1 EXISTING DATA RACK TO REMAIN ACTIVE, LOCATE AND PROTECT. PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED FOR TERMINATION OF NEW DATA CABLING.

2 EXISTING TELECOM. DEMARC EQUIPMENT, E.C. SHALL COORDINATE WITH LOCAL TELECOMM. PROVIDE AND OWNER IN REGARDS TO NEW SERVICE AS REQUIRED TO ACCOMMODATE NEW ADDITION AND CONSTRUCTION.

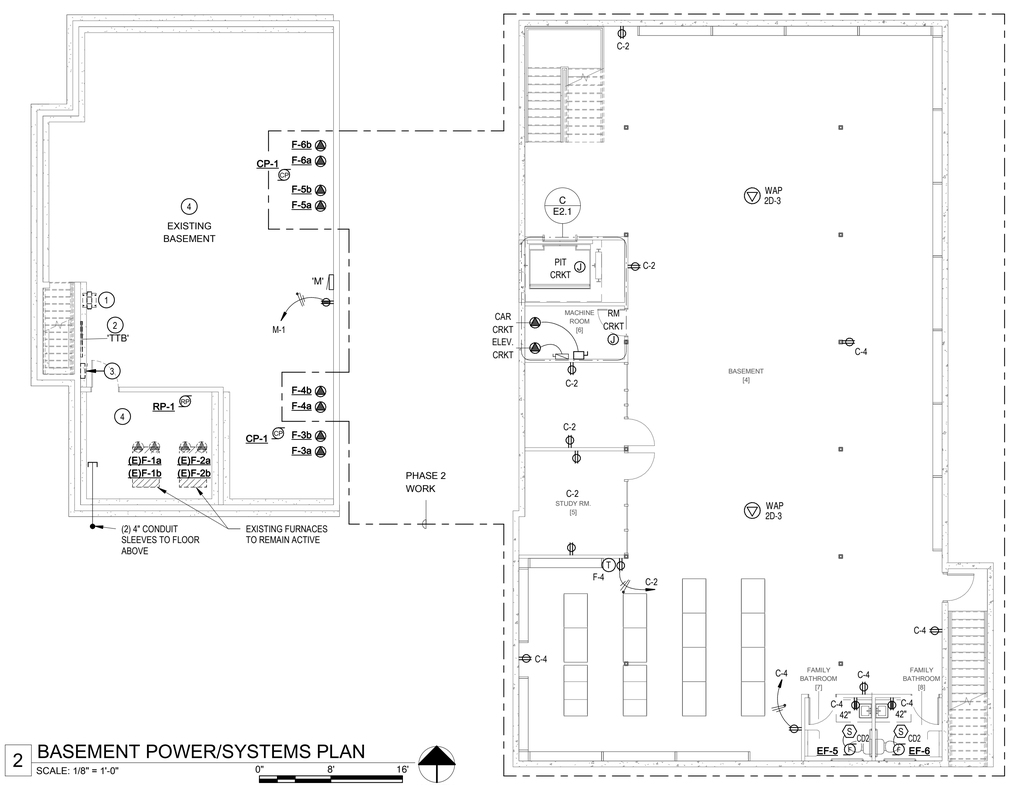
3 EXISTING ELECTRICAL PANEL TO REMAIN ACTIVE, LOCATE AND PROTECT DURING CONSTRUCTION.

4 ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING AND ETC. IN THIS AREA SHALL REMAIN ACTIVE, UNLESS NOTED OTHERWISE. LOCATE AND PROTECT DURING CONSTRUCTION. MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DEVICES AS NEEDED.





1 BASEMENT LIGHTING PLAN
SCALE: 1/8" = 1'-0"
0" 8' 16'
NORTH



2 BASEMENT POWER/SYSTEMS PLAN
SCALE: 1/8" = 1'-0"
0" 8' 16'
NORTH

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BASEMENT LEVEL - ELECTRICAL PLANS

SHEET: 3 / 8

E1.0

SCALE: PER PLAN

PROFESSIONAL ENGINEER REGISTERED 13053 2/7/24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2361

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	VOLTS	WATTS	LUMENS	COLOR TEMP.(K)	MFGR.	CATALOG #	APPROVED MFGR'S	NOTES
F1W	2X2 LED CENTER BASKET, FIELD SELECTABLE CCT/LUMENS, WIRELESS CONTROLS	RECESSED	120-277	33 W	MED	4000	COOPER	22ARS-L3C3-UNV-WAB	LITHONIA	1
F1WE	2X2 LED CENTER BASKET, FIELD SELECTABLE CCT/LUMENS, WIRELESS CONTROLS, W/ EMERG. BATTERY PACK	RECESSED	120-277	33 W	MED	4000	COOPER	22ARS-L3C3-UNV-EL14W-WAB	LITHONIA	1
F2W	2X4 LED CENTER BASKET, FIELD SELECTABLE CCT/LUMENS, WIRELESS CONTROLS	RECESSED	120-277	40 W	MED	4000	COOPER	24ARS-L3C3-UNV-WAB	LITHONIA	1
FE1	EXTERIOR LED WALL PACK, FIELD SELECTABLE CCT/LUMENS	WALL	120-277	30 W	4000	4000	COOPER	ASWPLED1S		
FX1	EXIT SIGN W/ 90MIN BATTERY,THERMOPLASTIC, GREEN LED, SINGLE/DOUBLE FACE	WALL OR CEILING	120-277	2 W	N/A	N/A	LITHONIA	LQM-S-W-3-G-20/277-EL N	COOPER	
FX2	EXIT SIGN/EM LIGHT COMBO W/ 90MIN BATTERY,THERMOPLASTIC, GREEN LED, SINGLE/DOUBLE FACE	WALL OR CEILING	120-277	2 W	N/A	N/A	LITHONIA	LHQM LED-G-SD	COOPER	
FX3	WALL MOUNTED EXTERIOR EMERGENCY EGRESS LIGHT, W/HEATER	WALL ABOVE DOOR	120-277	35 W	N/A	N/A	LITHONIA	AFF-OEL-SCBA-UVOLT-LTP-SDRT-WT-CW	DUAL-LITE	

LIGHT FIXTURE SCHEDULE NOTES:

1. REFER TO DRAWINGS FOR FIXTURES REQUIRED TO HAVE 0-10V OR STEP-LEVEL DIMMING CONTROL. PROVIDE FIXTURE(S) WITH LED DRIVER(S) AND REQUIRED DIMMING/SWITCH-LEG CONDUCTORS BETWEEN SWITCH(ES) AND FIXTURE(S) TO PROVIDE CONTROL AS INDICATED ON DRAWINGS.
2. FIXTURE TO BE CONTINUOUS ROW MOUNTED, LENGTH AS INDICATED ON DRAWINGS. PROVIDE REQUIRED ACCESSORIES/CONNECTORS FOR CONTINUOUS ROW MOUNTING.
3. SCBA - STANDARD COLOR BY ARCHITECT/OWNER (COORDINATE COLOR WITH ARCHITECT/OWNER PRIOR TO ORDERING.)

GENERAL LIGHTING SCHEDULE NOTES:

- LIGHTING FIXTURES INDICATED IN SCHEDULE ARE BASIS OF DESIGN, ALTERNATE MANUFACTURERS SHALL BE PRE-APPROVED BY ADDENDUM. ALTERNATE MANUFACTURERS SHALL SUBMIT PRE-APPROVALS TO ENGINEER A MINIMUM OF 10 DAYS PRIOR TO PROJECT BID DATE.

LIGHTING CONTROL/OCCUPANCY SENSOR SCHEDULE

TYPE	DESCRIPTION	MFGR.	CATALOG #	APPROVED EQUALS	NOTES
LIGHTING CONTROL PANELS					
'LCP'	SURFACE MOUNTED, 4-RELAY DIGITAL RELAY PANEL, W/ASTRONOMICAL TIMECLOCK	ACUITY BRANDS	ARP INTENC08 NLT/4SPR/MVOLT/SC/SM/DTC	COOPER, WATTSTOPPER, LEVITON	6
WIRELESS CONTROLS					
W3R	WAVELINX LITE WIRELESS 3-BUTTON LINE VOLTAGE SWITCH, RAISE / LOWER DIMMING	COOPER	WWL3-RL-*	LITHONIA	2

CONTROL & OCCUPANCY SENSOR SCHEDULE NOTES:

1. PROVIDE ADDITIONAL POWER PACKS; SENSOR SWITCH PP20 AS NEED FOR QTY OF OCCUPANCY SENSORS/SWITCHES.
2. DEVICE COLOR SHALL MATCH WIRING DEVICES; REFER TO SPECIFICATIONS.
3. REFER TO MANUFACTURER DOCUMENTATION FOR QTY AND SIZE OF CONDUCTORS BETWEEN LOW VOLTAGE SWITCH, SENSOR(S) AND POWER/RELAY PACKS.
4. PROVIDE SECONDARY RELAY PACK; SENSOR SWITCH SP20 AS NEEDED TO PROVIDE DUAL-LEVEL SWITCHING OF FIXTURES.
5. PROVIDE 0-10V DIMMING CONDUCTORS (GRAY & VIOLET) BETWEEN SWITCH AND LIGHT FIXTURES FOR DIMMING CONTROL.
6. PROGRAM ON/OFF TIMES OF RELAY'S AS DIRECTED BY OWNER. PROVIDE COMMISSIONING AS INDICATED IN GENERAL NOTES BELOW.

GENERAL LIGHTING CONTROL NOTES:

- E.C. SHALL BE RESPONSIBLE FOR THE PROGRAMMING/COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS TO FUNCTION AS INDICATED ON THE DRAWINGS AND SHALL INCLUDE ALL REQUIRED COST IN THE BASE BID. FOR AREAS WITH DAYLIGHTING CONTROL, THE DAYLIGHTING SET-POINTS SHALL BE COORDINATED WITH THE OWNER FOR EACH AREA PRIOR TO FINAL PROGRAMMING OF THE DAYLIGHTING SENSOR(S). ALL PROGRAMMING/COMMISSIONING SHALL BE DONE BY A FACTORY CERTIFIED OR TRAINED PERSON.
- LIGHTING IS SPACES WITH WIRELESS CONTROLS SHALL BE FIELD TUNED TO FOOTCANDLE LEVELS THAT ARE SATISFACTORY TO THE OWNER DURING PROGRAMMING AND COMMISSIONING OF THE WIRELESS CONTROL SYSTEM.

GENERAL NOTES:

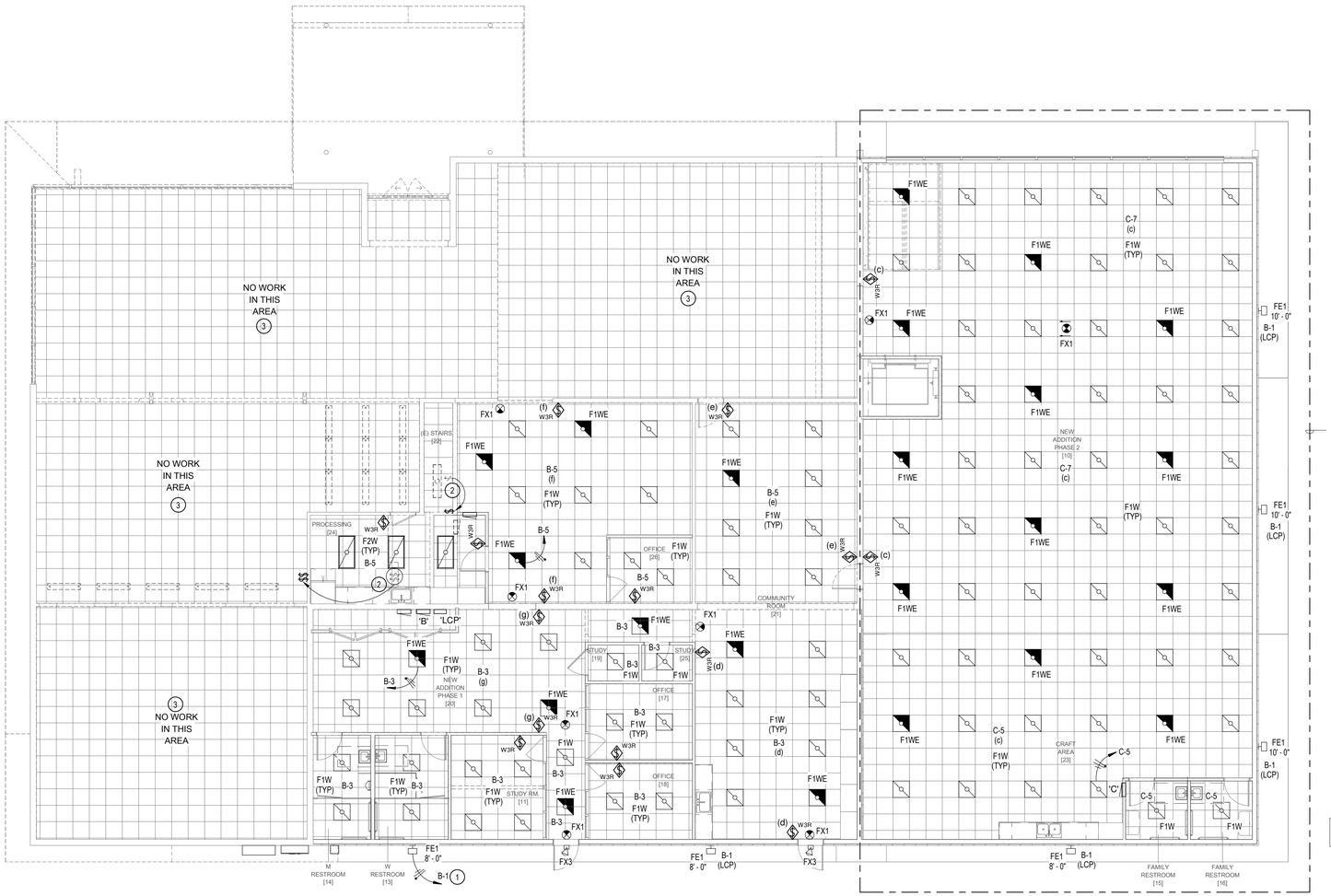
A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDING BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

(#) KEY NOTES:

1 ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL (LCP); REFER TO LIGHTING CONTROL/OCCUPANCY SENSOR SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ADDITIONAL UN-SWITCH LEG AS NEEDED FOR CONNECTION TO BATTERY PACK OF EMERGENCY FIXTURE(S) (F#E).

2 EXISTING LIGHTING CONTROLS TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. MODIFY/EXTEND EXISTING CONDUIT/CONDUCTORS TO NEW LOCATION AS REQUIRED TO MAINTAIN ORIGINAL FUNCTIONALITY.

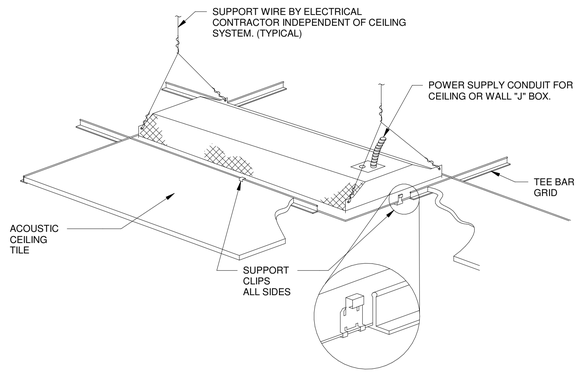
3 ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING AND ETC. IN THIS AREA SHALL REMAIN ACTIVE, UNLESS NOTED OTHERWISE. LOCATE AND PROTECT DURING CONSTRUCTION, MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DEVICES AS NEEDED.



1 MAIN LEVEL LIGHTING PLAN

SCALE: 1/8" = 1'-0"

0" 8' 16' NORTH



a LIGHT FIXTURE RECESSED DETAIL

SCALE: NONE

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MAIN LEVEL - LIGHTING PLAN

SHEET: 4 / 8

E1.1

SCALE: PER PLAN

PROFESSIONAL ENGINEER REGISTERED 13053 2/7/24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2361

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1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
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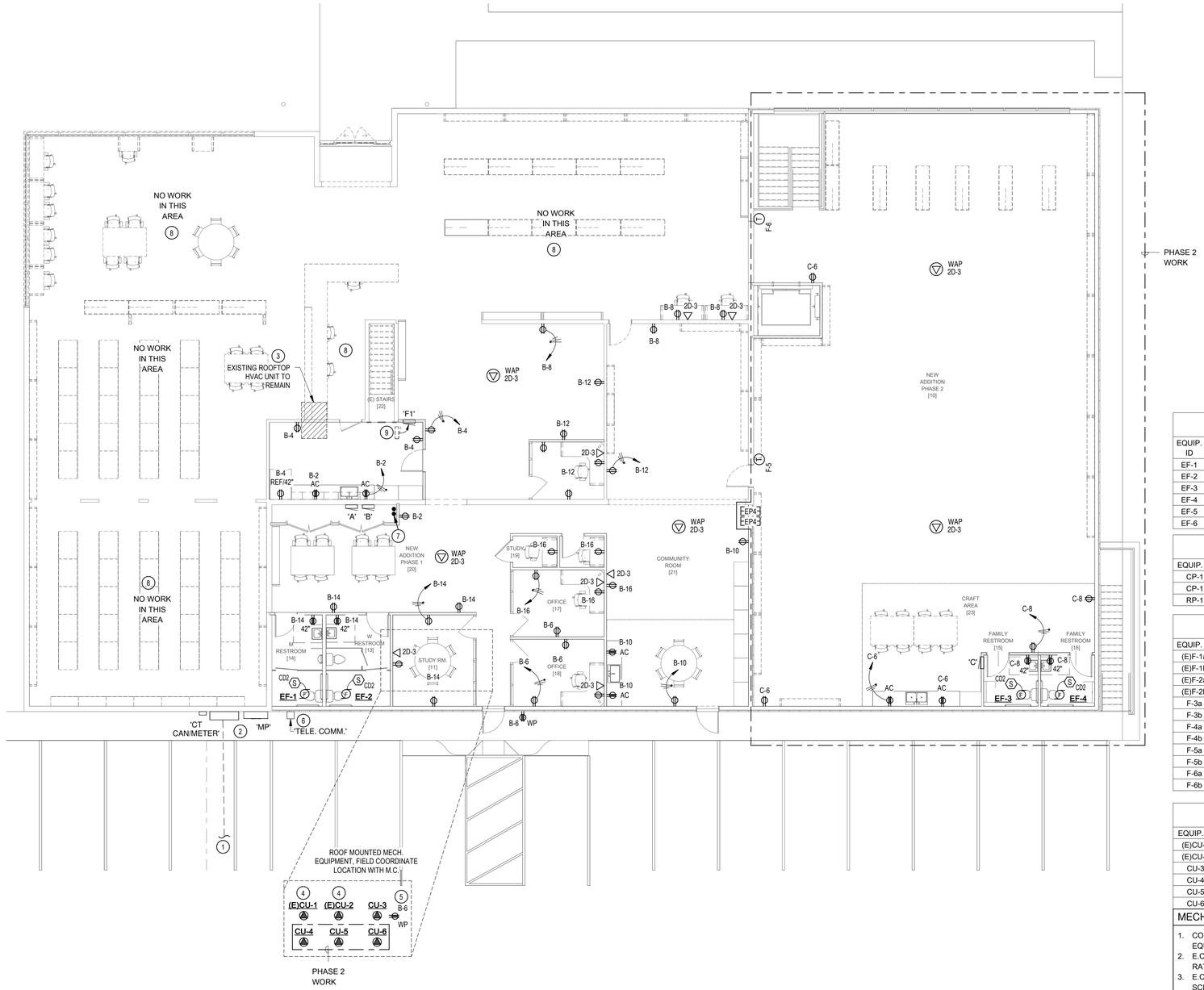
GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDING BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

(#) KEY NOTES:

1 NEW UNDERGROUND SECONDARY; SEE POWER RISER FOR ADDITIONAL INFORMATION.
2 CT CAN, METER AND SERVICE EQUIPMENT MOUNTED ON BUILDING. SEE POWER RISER FOR ADDITIONAL INFORMATION.
3 EXISTING ROOFTOP UNIT TO REMAIN ACTIVE, E.C. SHALL RE-FEED UNIT FROM NEW ELECTRICAL SERVICE PANEL, REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4 EXISTING COND. UNITS TO BE RELOCATED TO ROOF BY M.C. E.C. SHALL ELECTRICALLY DISCONNECT AND REMOVE ASSOCIATED CONDUIT/CONDUCTORS FOR RELOCATION. E.C. SHALL RECONNECT TO EXISTING CIRCUITS ONCE UNITS HAVE BEEN RE-INSTALLED.
5 RECEPTACLE MOUNTED TO HVAC UNIT, COORDINATE MOUNTING WITH M.C. PRIOR TO ROUGH-IN.
6 EXISTING TELE/COMM SERVICE TO BUILDING TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. E.C. SHALL CONTACT/COORDINATE WITH LOCAL UTILITY CO. AND OWNER FOR RELOCATION/RECONNECTION OF TELE/COMM. SERVICE TO BUILDING AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
7 PROVIDE AND INSTALL (2) 4" CONDUIT SLEEVES TO ACCESSIBLE CEILING SPACE IN EXISTING BASEMENT FOR ROUTING OF LOW VOLTAGE CABLING, COORDINATE EXACT PLACEMENT WITH OWNER PRIOR TO ROUGH-IN.
8 ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING AND ETC. IN THIS AREA SHALL REMAIN ACTIVE, UNLESS NOTED OTHERWISE. LOCATE AND PROTECT DURING CONSTRUCTION, MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DEVICES AS NEEDED.
9 EXISTING FLUSH MOUNTED ELECTRICAL PANEL TO BE DISCONNECTED/REMOVED AND REPLACED WITH NEW AS REQUIRED TO ACCOMMODATE REMODEL. E.C. SHALL PULL BACK AND EXTEND EXISTING FEEDER AND ALL BRANCH CIRCUITS THAT ARE TO REMAIN ACTIVE FOR RECONNECTION TO NEW PANEL. PROVIDE AND INSTALL NEW 200A MLO, 30 CRKT FLUSH MOUNTED LOAD CENTER PANEL WITH 20A/1P BREAKERS FOR RECONNECTION OF EXISTING BRANCH CIRCUITS. FIELD VERIFY ALL EXISTING BRANCH CIRCUITS AND EXISTING FEEDER ROUTING.



1 MAIN LEVEL POWER/SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

0" 8' 16'
NORTH

MECH. - EXHAUST FAN SCHEDULE

EQUIP. ID	VOLTS / PH.	WATTS	FLA	CIRCUIT	FEEDER	CONTROL	NOTES
EF-1	120 V / 1 PH.	100 W	1 A	B - 14	1/2"C.,2#12 + 1#12G	OCC. SENSOR CD2	1
EF-2	120 V / 1 PH.	100 W	1 A	B - 14	1/2"C.,2#12 + 1#12G	OCC. SENSOR CD2	1
EF-3	120 V / 1 PH.	100 W	1 A	C - 8	1/2"C.,2#12 + 1#12G	OCC. SENSOR CD2	1
EF-4	120 V / 1 PH.	100 W	1 A	C - 8	1/2"C.,2#12 + 1#12G	OCC. SENSOR CD2	1
EF-5	120 V / 1 PH.	100 W	1 A	C - 4	1/2"C.,2#12 + 1#12G	OCC. SENSOR CD2	1
EF-6	120 V / 1 PH.	100 W	1 A	C - 4	1/2"C.,2#12 + 1#12G	OCC. SENSOR CD2	1

MECH. - PUMP SCHEDULE

EQUIP. ID	VOLTS / PH.	WATTS	CIRCUIT	FEEDER	DISCONNECT	NOTES
CP-1	120 V / 1 PH.	50 W	M - 1	1/2"C., 2#12 + 1#12G	CORD/PLUG	
CP-1	120 V / 1 PH.	50 W	M - 1	1/2"C., 2#12 + 1#12G	CORD/PLUG	
RP-1	120 V / 1 PH.	50 W	M - 1	1/2"C., 2#12 + 1#12G	CORD/PLUG	

MECH. - ELECTRIC FURNACE SCHEDULE

EQUIP. ID	VOLTS / PH.	WATTS	FLA	CIRCUIT	FEEDER	NOTES
(E)F-1a	208 V / 1 PH.	0 W	0 A	A - 15,17	1"C., 2#6 + GND	4
(E)F-1b	208 V / 1 PH.	0 W	0 A	A - 19,21	1"C., 2#6 + GND	4
(E)F-2a	208 V / 1 PH.	0 W	0 A	A - 16,18	1"C., 2#6 + GND	4
(E)F-2b	208 V / 1 PH.	0 W	0 A	A - 20,22	1"C., 2#6 + GND	4
F-3a	208 V / 3 PH.	15000 W	42 A	M - 8,10,12	1"C., 3#6 + GND	4
F-3b	208 V / 3 PH.	15000 W	42 A	M - 7,9,11	1"C., 3#6 + GND	4
F-4a	208 V / 3 PH.	15000 W	42 A	M - 13,15,17	1"C., 3#6 + GND	4
F-4b	208 V / 3 PH.	15000 W	42 A	M - 14,16,18	1"C., 3#6 + GND	4
F-5a	208 V / 3 PH.	15000 W	42 A	M - 19,21,23	1"C., 3#6 + GND	4
F-5b	208 V / 3 PH.	15000 W	42 A	M - 20,22,24	1"C., 3#6 + GND	4
F-6a	208 V / 3 PH.	15000 W	42 A	M - 25,27,29	1"C., 3#6 + GND	4
F-6b	208 V / 3 PH.	15000 W	42 A	M - 26,28,30	1"C., 3#6 + GND	4

MECH. - CONDENSING UNIT SCHEDULE

EQUIP. ID	VOLTS / PH.	MCA	MOCP	CIRCUIT	FEEDER	DISCONNECT	NOTES
(E)CU-1	208 V / 1 PH.	0 A	60 A	A - 11,13	1"C., 2#6 + GND	60 A - NONFUSED/3R	3,4
(E)CU-2	208 V / 1 PH.	0 A	60 A	A - 12,14	1"C., 2#6 + GND	60 A - NONFUSED/3R	3,4
CU-3	208 V / 3 PH.	21 A	30 A	B - 19,21,23	3/4"C.,3#10 + GND	30 A - NONFUSED/3R	3,4
CU-4	208 V / 3 PH.	21 A	30 A	B - 25,27,29	3/4"C.,3#10 + GND	30 A - NONFUSED/3R	3,4
CU-5	208 V / 3 PH.	21 A	30 A	B - 31,33,35	3/4"C.,3#10 + GND	30 A - NONFUSED/3R	3,4
CU-6	208 V / 3 PH.	21 A	30 A	B - 37,39,41	3/4"C.,3#10 + GND	30 A - NONFUSED/3R	3,4

MECHANICAL SCHEDULE NOTES:

1. CONTROL EXHAUST FAN WITH DEDICATED OCCUPANCY SENSOR; SENSOR SWITCH P/N:CMR PDT 9 OR EQUAL.
2. E.C. SHALL PROVIDE LOCAL DISCONNECT RATED, THERMAL-OVERLOAD SWITCH FOR EQUIPMENT; SWITCH RATING SHALL NOT BE LESS THEN CIRCUIT BREAKER SUPPLYING EQUIPMENT.
3. E.C. SHALL PROVIDE LOCAL DISCONNECT SWITCH FOR EQUIPMENT; SIZE AND TYPE AS INDICATED IN SCHEDULE. IF FUSED DISCONNECT IS SPECIFIED FOR EQUIPMENT, FUSE PER EQUIPMENT NAMEPLATE RATING.
4. PROVIDE 1/2" CONDUIT AND CONDUCTORS BETWEEN FURNACE AND CORRESPONDING OUTDOOR CONDENSING UNIT. COORDINATE SIZE AND NUMBER OF CONDUCTORS WITH M.C. PRIOR TO ROUGH-IN. PROVIDE CONNECTION BETWEEN FURNACE AND ASSOCIATED OUTSIDE AIR MOTORIZED DAMPER, COORDINATE WITH M.C.

PETERSON ENGINEERS

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CITY OF BURLEY
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DATE: 02/07/2024
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CHECKED BY: TEP
PROJECT #: 23-119

MAIN LEVEL - POWER/SYSTEMS PLAN

SHEET: 5 / 8

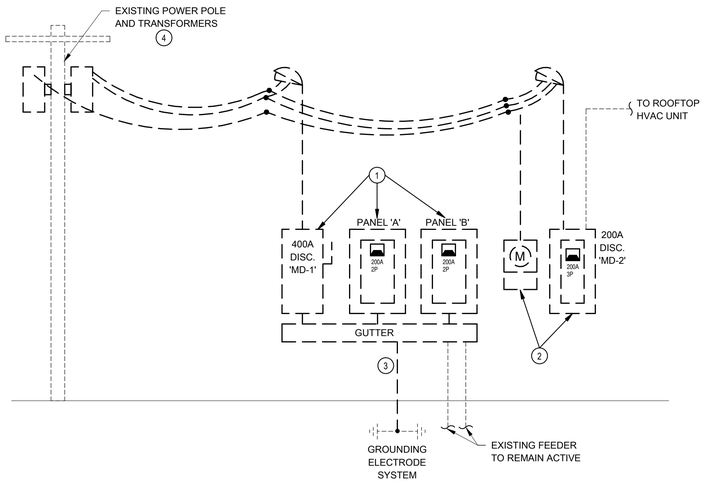
E1.2

SCALE: PER PLAN

PROFESSIONAL ENGINEER REGISTERED 13053 2/7/24 STATE OF IDAHO SHAWN A. MEADOR

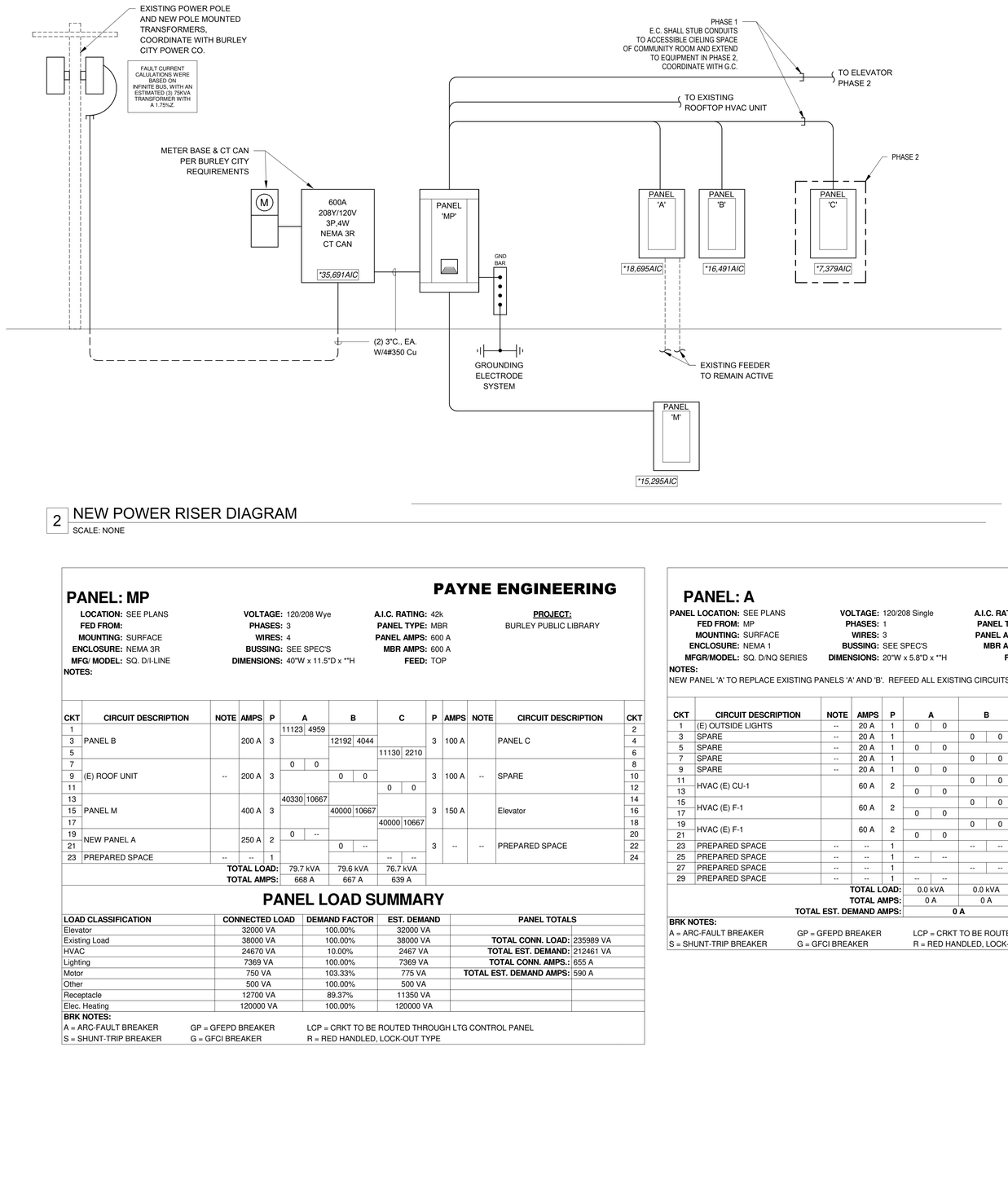
PROJECT #: 2361

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com



1 EXISTING POWER RISER DIAGRAM

SCALE: NONE



2 NEW POWER RISER DIAGRAM

SCALE: NONE

KEY NOTES:

1. EXISTING SERVICE DISCONNECT, PANELS AND GUTTER TO BE DISCONNECTED AND REMOVED IN THERE ENTIRETY AND REPLACED WITH NEW PANEL 'A'. E.C. SHALL DISCONNECT AND REMOVE ASSOCIATED OVERHEAD SERVICE CONDUIT/CONDUCTORS AS REQUIRED. NEW PANEL 'A' SHALL BE RE-FEED ALL EXISTING BRANCH CIRCUITS/FEEDERS THAT ARE TO REMAIN. REFER TO POWER RISER DIAGRAMS AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION. COORDINATE DEMOLITION OF SERVICE AND INSTALLATION OF NEW EQUIPMENT WITH OWNER AND BURLEY CITY ELECTRICAL DEPT. PRIOR TO ORDERING ANY NEW EQUIPMENT/PANELS.
2. EXISTING METER AND SERVICE DISCONNECT SUPPLING EXISTING ROOFTOP HVAC UNIT, E.C. SHALL DISCONNECT AND REMOVE EXISTING EQUIPMENT AND ASSOCIATED OVERHEAD SERVICE CONDUIT/CONDUCTORS AS REQUIRED. EXISTING HVAC UNIT SHALL BE RE-FED FROM NEW SERVICE EQUIPMENT. REFER TO POWER RISER DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE DEMOLITION WITH OWNER AND BURLEY CITY ELECTRICAL DEPT.
3. E.C. SHALL DISCONNECT EXISTING BUILDING GROUNDING ELECTRODE SYSTEM FROM EQUIPMENT AND REMOVE NEUTRAL-TO-GROUND BOND IN EQUIPMENT AS REQUIRED TO RELOCATE TO NEW SERVICE EQUIPMENT, REFER TO NEW POWER RISER DIAGRAM FOR INFORMATION.
4. EXISTING 240V, 3-PHASE DELTA SERVICE TO BE REPLACE WITH NEW 208Y/120V, 3P, 4W SERVICE. E.C. SHALL COORDINATE WORK WITH OWNER AND BURLEY CITY ELECTRICAL DEPT. CONTACT BRENT WALLIN WITH THE CITY OF BURLEY FOR COORDINATION OF WORK.

POWER RISER FEEDER SCHEDULE

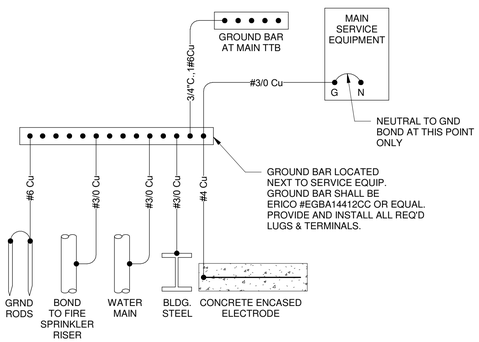
SOURCE	LOAD	CONNECTED AMPS	BREAKER AMPS	# OF RUNS	CONDUIT	CONDUCTOR SIZE	CONDUCTOR TYPE
MP	NEW PANEL A	0 A	250 A	1	2 1/2"C	2-#250, 1-#250, 1-#4	COPPER
MP	PANEL B	96 A	200 A	1	2"	3-#3/0, 1-#3/0, 1-#6	COPPER
MP	PANEL C	31 A	100 A	1	1 1/2"	3-#3, 1-#3, 1-#8	COPPER
MP	PANEL M	334 A	400 A	2	2"	2 runs of 3-#3/0, 1-#3/0, 1-#3	COPPER

FEEDER SCHEDULE LEGEND & NOTES

1. # OF RUNS INDICATES THE NUMBER OF PARALLEL RUNS FOR THE FEEDER.
2. FEEDER SIZE IN SCHEDULE IS AS INDICATED BELOW:

QTY-#PHASE SIZE, QTY-#NEUTRAL SIZE, QTY-#GROUND SIZE

QTY & SIZE OF PHASE CONDUCTOR(S) | QTY & SIZE OF NEUTRAL CONDUCTOR(S) | QTY & SIZE OF GROUND CONDUCTOR(S)



A BLDG GROUNDING ELECTRODE SYSTEM DETAIL

SCALE: NONE

PANEL: MP

PAYNE ENGINEERING

LOCATION: SEE PLANS
FED FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R
MFG/ MODEL: SQ. D/I-LINE
NOTES:

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPEC'S
DIMENSIONS: 40"W x 11.5"D x **"H

A.I.C. RATING: 42k
PANEL TYPE: MBR
PANEL AMPS: 600 A
MBR AMPS: 600 A
FEED: TOP

PROJECT:
BURLEY PUBLIC LIBRARY

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A	B	C	P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1					11123 4959							2
3	PANEL B		200 A	3		12192 4044		3	100 A		PANEL C	4
5							11130 2210					6
7					0 0							8
9	(E) ROOF UNIT	--	200 A	3		0 0		3	100 A	--	SPARE	10
11							0 0					12
13					40330 10667							14
15	PANEL M		400 A	3		40000 10667		3	150 A		Elevator	16
17							40000 10667					18
19	NEW PANEL A		250 A	2	0 --							20
21						0 --		3	--	--	PREPARED SPACE	22
23	PREPARED SPACE	--	--	1			-- --					24
			TOTAL LOAD:		79.7 kVA	79.6 kVA	76.7 kVA					
			TOTAL AMPS:		668 A	667 A	639 A					

PANEL LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Elevator	32000 VA	100.00%	32000 VA		
Existing Load	38000 VA	100.00%	38000 VA	**TOTAL CONN. LOAD:**	235989 VA
HVAC	24670 VA	10.00%	2467 VA	**TOTAL EST. DEMAND:**	212461 VA
Lighting	7369 VA	100.00%	7369 VA	**TOTAL CONN. AMPS.:**	655 A
Motor	750 VA	103.33%	775 VA	**TOTAL EST. DEMAND AMPS:**	590 A
Other	500 VA	100.00%	500 VA		
Receptacle	12700 VA	89.37%	11350 VA		
Elec. Heating	120000 VA	100.00%	120000 VA		

BRK NOTES:
A = ARC-FAULT BREAKER — GP = GFEPD BREAKER — LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
S = SHUNT-TRIP BREAKER — G = GFCI BREAKER — R = RED HANDLED, LOCK-OUT TYPE

PANEL: A

PAYNE ENGINEERING

PANEL LOCATION: SEE PLANS
FED FROM: MP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFGR/MODEL: SQ. D/NQ SERIES
NOTES:
NEW PANEL 'A' TO REPLACE EXISTING PANELS 'A' AND 'B'. REFEED ALL EXISTING CIRCUITS THAT ARE TO REMAIN TO NEW PANEL.

VOLTAGE: 120/208 Single
PHASES: 1
WIRES: 3
BUSSING: SEE SPEC'S
DIMENSIONS: 20"W x 5.8"D x **"H

A.I.C. RATING: 22k
PANEL TYPE: MLO
PANEL AMPS: 400 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT NAME:
BURLEY PUBLIC LIBRARY

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A	B	P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	(E) OUTSIDE LIGHTS	--	20 A	1	0 0		1	20 A	--	(E) LOAD	2
3	SPARE	--	20 A	1		0 0	1	20 A	--	(E) LOAD	4
5	SPARE	--	20 A	1	0 0		1	20 A	--	SPARE	6
7	SPARE	--	20 A	1		0 0	1	20 A	--	SPARE	8
9	SPARE	--	20 A	1	0 0		1	20 A	--	SPARE	10
11	HVAC (E) CU-1		60 A	2		0 0	2	60 A		HVAC (E) CU-2	12
13					0 0						14
15	HVAC (E) F-1		60 A	2		0 0	2	60 A		HVAC (E) F-2	16
17					0 0						18
19	HVAC (E) F-1		60 A	2		0 0	2	60 A		HVAC (E) F-2	20
21					0 0						22
23	PREPARED SPACE	--	--	1		-- --	1	--	--	PREPARED SPACE	24
25	PREPARED SPACE	--	--	1	-- --		1	--	--	PREPARED SPACE	26
27	PREPARED SPACE	--	--	1		-- --	1	--	--	PREPARED SPACE	28
29	PREPARED SPACE	--	--	1	-- --		1	--	--	PREPARED SPACE	30
			TOTAL LOAD:		0.0 kVA	0.0 kVA					
			TOTAL AMPS:		0 A	0 A					
			TOTAL EST. DEMAND AMPS:		0 A						

BRK NOTES:
A = ARC-FAULT BREAKER — GP = GFEPD BREAKER — LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
S = SHUNT-TRIP BREAKER — G = GFCI BREAKER — R = RED HANDLED, LOCK-OUT TYPE

PETERSON ENGINEERS

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DATE: 02/07/2024
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CHECKED BY: TEP
PROJECT #: 23-119

POWER RISER DIAGRAMS

SHEET: 6 / 8

E2.0

SCALE: PER PLAN

PROFESSIONAL ENGINEER REGISTERED 13053 2/7/24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2361

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

PANEL: B

PAYNE ENGINEERING

LOCATION: SEE PLANS
FED FROM: MP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: SQ. D/NQ SERIES
NOTES:

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPEC'S
DIMENSIONS: 20"W x 5.8"D x **"H

A.I.C. RATING: 22k
PANEL TYPE: MLO
PANEL AMPS: 225 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT:
BURLEY PUBLIC LIBRARY

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A	B	C	P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	Lighting - Exterior	LCP	20 A	1	180 540			1	20 A		Receptacle	2
3	Lighting		20 A	1		1089 1260		1	20 A		Receptacle	4
5	Lighting		20 A	1			747 1080	1	20 A		Receptacle	6
7	SPARE	--	20 A	1	0 720			1	20 A		Receptacle	8
9	SPARE	--	20 A	1		0 720		1	20 A		Receptacle	10
11	SPARE	--	20 A	1			0 1080	1	20 A		Receptacle	12
13	SPARE	--	20 A	1	0 1460			1	20 A		Receptacle	14
15	SPARE	--	20 A	1		0 900		1	20 A		Receptacle	16
17	SPARE	--	20 A	1			0 0	1	20 A	--	SPARE	18
19					2056 0			1	20 A	--	SPARE	20
21	HVAC CU-3		30 A	3		2056 0		1	20 A	--	SPARE	22
23							2056 0	1	20 A	--	SPARE	24
25					2056 0			1	20 A	--	SPARE	26
27	HVAC CU-4		30 A	3		2056 0		1	20 A	--	SPARE	28
29							2056 0	1	20 A	--	SPARE	30
31					2056 0			1	20 A	--	SPARE	32
33	HVAC CU-5		30 A	3		2056 0		1	20 A	--	SPARE	34
35							2056 0	1	20 A	--	SPARE	36
37					2056 0			1	20 A	--	SPARE	38
39	HVAC CU-6		30 A	3		2056 0		1	20 A	--	SPARE	40
41							2056 0	1	20 A	--	SPARE	42
			TOTAL LOAD:		11.1 kVA	12.2 kVA	11.1 kVA					
			TOTAL AMPS:		93 A	102 A	93 A					
			TOTAL ESTIMATED DEMAND AMPS:			34 A						

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCI BREAKER
LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
R = RED HANDLED, LOCK-OUT TYPE

PANEL: C

PAYNE ENGINEERING

LOCATION: SEE PLANS
FED FROM: MP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
MFG & MODEL: SQ. D/NQ SERIES
NOTES:

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPEC'S
DIMENSIONS: 20"W x 5.8"D x **"H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 100 A
MBR AMPS: N/A
FEED: TOP

PROJECT:
BURLEY PUBLIC LIBRARY

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A	B	C	P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	Lighting - Basement		20 A	1	1320 1260			1	20 A		Receptacle - Basement	2
3	Lighting - Basement		20 A	1		1584 1460		1	20 A		Receptacle - Basement	4
5	Lighting - Main Level		20 A	1			990 720	1	20 A		Receptacle	6
7	Lighting - Main Level		20 A	1	959 920			1	20 A		Receptacle	8
9	SPARE	--	20 A	1		0 500		1	20 A		FACP	10
11	SPARE	--	20 A	1			0 0	1	20 A	--	SPARE	12
13	Elevator Pit		20 A	1	500 0			1	20 A	--	SPARE	14
15	Elevator Mach. Rm		20 A	1		500 0		1	20 A	--	SPARE	16
17	Elevator Car Ltg		20 A	1			500 0	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0 0			1	20 A	--	SPARE	20
21	SPARE	--	20 A	1		0 0		1	20 A	--	SPARE	22
23	SPARE	--	20 A	1			0 0	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0 0			1	20 A	--	SPARE	26
27	SPARE	--	20 A	1		0 0		1	20 A	--	SPARE	28
29	SPARE	--	20 A	1			0 0	1	20 A	--	SPARE	30
			TOTAL LOAD:		5.0 kVA	4.0 kVA	2.2 kVA					
			TOTAL AMPS:		44 A	36 A	18 A					
			TOTAL ESTIMATED DEMAND AMPS:			31 A						

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCI BREAKER
LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
R = RED HANDLED, LOCK-OUT TYPE

PANEL: M

PAYNE ENGINEERING

LOCATION: SEE PLANS
FED FROM: MP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: SQ. D/NQ SERIES
NOTES:

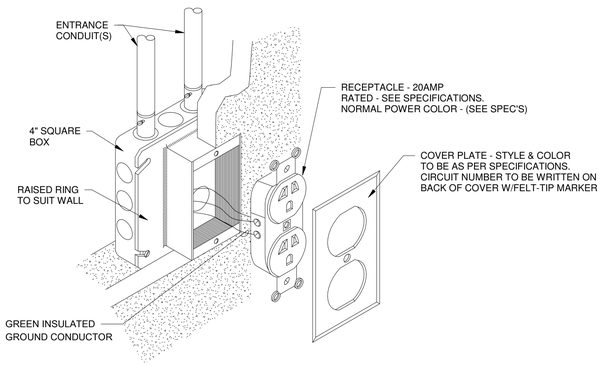
VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPEC'S
DIMENSIONS: 20"W x 5.8"D x **"H

A.I.C. RATING: 22k
PANEL TYPE: MLO
PANEL AMPS: 225 A
MBR AMPS: N/A
FEED: TOP

PROJECT:
BURLEY PUBLIC LIBRARY

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A	B	C	P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	Receptacle		20 A	1	330 0			1	20 A	--	SPARE	2
3	SPARE	--	20 A	1		0 0		1	20 A	--	SPARE	4
5	SPARE	--	20 A	1			0 0	1	20 A	--	SPARE	6
7					5000 5000							8
9	Elec. Heating F-3		60 A	3		5000 5000		3	60 A		Elec. Heating F-3	10
11							5000 5000					12
13					5000 5000							14
15	Elec. Heating F-4		60 A	3		5000 5000		3	60 A		Elec. Heating F-4	16
17							5000 5000					18
19					5000 5000							20
21	Elec. Heating F-5		60 A	3		5000 5000		3	60 A		Elec. Heating F-5	22
23							5000 5000					24
25					5000 5000							26
27	Elec. Heating F-6		60 A	3		5000 5000		3	60 A		Elec. Heating F-6	28
29							5000 5000					30
31	PREPARED SPACE	--	--	1	-- --			1	--	--	PREPARED SPACE	32
33	PREPARED SPACE	--	--	1		-- --		1	--	--	PREPARED SPACE	34
35	PREPARED SPACE	--	--	1			-- --	1	--	--	PREPARED SPACE	36
37	PREPARED SPACE	--	--	1	-- --			1	--	--	PREPARED SPACE	38
39	PREPARED SPACE	--	--	1		-- --		1	--	--	PREPARED SPACE	40
41	PREPARED SPACE	--	--	1			-- --	1	--	--	PREPARED SPACE	42
			TOTAL LOAD:		40.3 kVA	40.0 kVA	40.0 kVA					
			TOTAL AMPS:		336 A	333 A	333 A					
			TOTAL ESTIMATED DEMAND AMPS:			334 A						

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCI BREAKER
LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
R = RED HANDLED, LOCK-OUT TYPE



B RECEPTACLE MOUNTING DETAIL
SCALE: NONE

ELEVATOR SCHEDULE

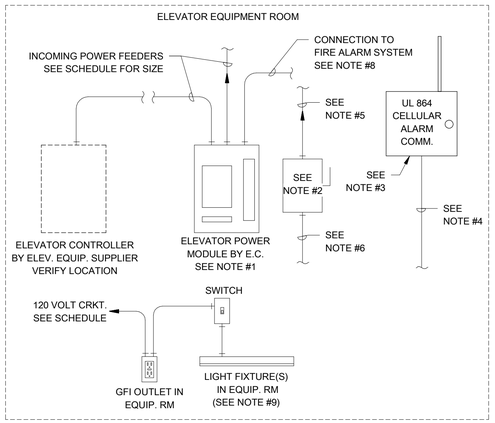
VOLTS/ PHASE	HP	FLA	BUSSMAN POWER MODULE #	PIT CIRCUIT	EQUIP. ROOM LTG/RECPT. CIRCUIT	CAR LIGHT CIRCUIT	ELEVATOR CIRCUIT	ELEVATOR FEEDER SIZE
208/3	30	90	PS-2-T20-R1-K-G-N2-B-F3	C-13	C-15	C-17	MP-14,16,18	1 1/2"C.,3#1/0 + 1#6G

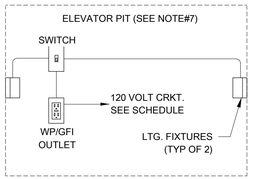
ELEVATOR GENERAL NOTES:

A. CONTRACTOR SHALL OBTAIN EXACT FUSE/CIRCUIT SIZE REQUIRED BY THE ELEVATOR EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN.
B. PRIOR TO ROUGH-IN OR MOUNTING OF EQUIPMENT IN THE ELEVATOR EQUIPMENT ROOM, COORDINATE WITH THE ELEVATOR EQUIPMENT SUPPLIER FOR PLACEMENT OF ALL PANELS, ETC. TO INSURE PROPER WORKING CLEARANCES.
C. ONLY EQUIPMENT ASSOCIATED TO THE ELEVATOR SHALL BE ALLOWED TO BE INSTALLED IN THE ELEV. EQUIP. ROOM WITH THE EXCEPTION OF ANY SPECIAL CODE REQUIRED SYSTEMS SUCH AS FIRE ALARM.
D. ALL ELECTRICAL REQUIREMENTS FOR THE ELEVATOR SHALL COMPLY WITH NEC SECTION 620.

ELEVATOR NOTES:

1. BUSSMAN ELEVATOR POWER MODULE (SEE SCHEDULE). MOUNT ADJACENT TO ELEVATOR CONTROLLER EQUIPMENT.
2. 30A/2P FUSED, GENERAL-DUTY SAFETY SWITCH WITH LOCKOUT CAPABILITY. DISCONNECT IS FOR ELEVATOR CAR LIGHTS, CONTROLS, OUTLETS, VENT POWER AND ETC. FOR ELEVATOR CAR. SEE NEC 620 FOR INFORMATION.
3. E.C. SHALL PROVIDE AND INSTALL CELLULAR ALARM COMMUNICATOR FOR ELEVATOR EMERG. PHONE, TELGUARD TG-7FS LTE OR EQUAL. SYSTEM SHALL BE UL LISTED AND COMPLIANT WITH ELEVATORS. FIELD LOCATE FOR PROPER CELLULAR RECEPTION.
   PROVIDE (1) YEAR RENEWABLE CELLULAR SERVICE COORDINATE SERVICE PROVIDER WITH OWNER.
4. 3/4" CONDUIT, CABLING AND CONNECTION TO ELEVATOR CAR EMERGENCY PHONE. VERIFY CONNECTION POINT WITH EQUIPMENT.
5. DEDICATED 120V CIRCUIT FOR ELEVATOR CAR LIGHTS. UTILIZE EMERG. POWER CIRCUIT WHEN AN EMERG. GENERATOR IS INSTALLED. SEE POWER PLAN FOR CIRCUIT NUMBER.
6. CONNECTION TO ELEVATOR CAR LIGHTS, VERIFY EXACT CONNECTION POINT WITH ELEVATOR EQUIPMENT.
7. PROVIDE A GFCI RECEPTACLE, LIGHT FIXTURES AND SWITCH IN ELEVATOR PIT. VERIFY EXACT PLACEMENT WITH ELEVATOR INSTALLER. LOCATE SWITCH AT PIT ACCESS SUCH THAT LIGHTS MAY BE SWITCHED WITHOUT ENTERING PIT. LIGHT FIXTURES SHALL BE LITHONIA# DMW2-L24-3000LM-PFL-WD-MVOLT-40K-80CRI. PROVIDE (2) FIXTURES ON OPPOSITE WALLS OF PIT. MINIMUM FC IN PIT TO BE NOT LESS THAN 10FC.
8. PROVIDE FIRE ALARM SYSTEM CONNECTION/MONITORING OF THE SHUNT TRIP VOLTAGE, ELEVATOR RECALL, FIREMANS HAT, AND ETC PER NFPA 72.
9. PROVIDE AND INSTALL (2) SURFACE/PENDANT LIGHT FIXTURES IN EQUIPMENT ROOM; LITHONIA# CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH-ZACVH OR EQUAL. CONNECT FIXTURE(S) TO EQUIPMENT ROOM CIRCUIT.





C ELEVATOR CONNECTION DETAIL
SCALE: NONE

WaveLinx LITE Wallstation

General Information

Overview

The Wireless Wallstation is an integral part of the WaveLinx LITE system and is available in three button configurations in white color. These Wallstations are line voltage (120-277VAC) powered and are fully configurable to provide wireless local and multi-level control of the lighting in an area. The Wallstations operate on a Bluetooth Mesh network.

The Wallstation mounts in a standard wallbox (single or multi-gang) and is suitable for standard wall plates (not included). Each button is pre-configured to control an area and each button's functionality can be modified using the WaveLinx LITE Mobile Application.

The Wallstation is a multi-scene, single area dimming Wallstation which provides customized light level for each area.

The Wallstation provides default sequence of operations including 50% light level, scene light levels between 30-70% as well as 100% and full off. Two configurations also include raise/ lower buttons to allow further light level manual adjustment.

Notes:
- Each is powered by an internal universal 120-277 VAC (+/- 10%) input power supply with line, neutral, and ground.
- The WaveLinx LITE Wallstation alone does not support any load switching.

Supplied Parts

Designed for installation into a standard single or multi- gang wiring box, each wallstation is installed in the same manner as an ordinary wall switch.

Note: Before installing the unit in the junction box, please wire the wall station per the instructions listed in the "Wiring Diagram" section.

Wall plate not included

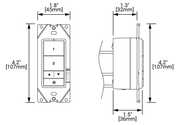
Specifications

Power	Input power: • 120 - 277VAC (50/60Hz) • 5mA @ 120V • 5mA @ 277V • Rated impulse voltage: 4000V • Type of Action: Type 1 Action • Pollution Degree: 2 • Software Class: Class A • Control Type: Operating Control
Indicators	White LED (1 per wallstation) LED functionality • Indication of wireless network join request • Indication of wireless network connection • Scene indication of operations
Button Configurations	• 3 Button • 2 Button with R/L • 1 Button with R/L
Installation	Standard gang decorator opening (wall plate not included)
Wallstation Size	4.2"H x 1.8"W x 1.5" D (1.3" in box) 107mm x 45mm x 35mm (32mm in box)
Environmental Specifications	Operating Temperature Range: 32°F to 113°F (0°C to 45°C) Storage Temperature Range: 32°F to 167°F (0°C to 75°C) Relative Humidity: 5% to 95% non-condensing, for indoor use only
Standards	Listings: cULus Certified, FCC Meets latest ASHRAE Standard 90.1 requirements Meets latest IECC requirements Meets latest CEC Title 24 requirements
Wireless Specifications	Radio 2.4GHz IEEE 802.15.1 - Bluetooth® Low Energy (BLE) Transmitter Power +16 dBm Range: 100ft (30m) LOS (see Note) 50 devices (MAX) per network (40 best practice)

Note: Use of a metal wall plate will result in reduced wireless range.

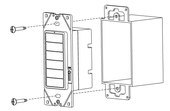
Wallstation Dimensions

The WaveLinx LITE Wallstation is intended to fit into a standard wall box with a minimum internal depth of 2 inches (51 mm).



Wallstation Installation

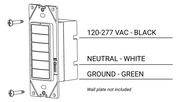
1. The WaveLinx LITE Wallstation is intended to fit into a standard gang wall box with a minimum internal depth of 2 in. (51mm). With the all plate (not included) removed, use the two supplied long screws to secure the wallstation to the wall box.
2. Finish installation with a wall plate (not included).



Wall plate not included

AC Wiring

1. Make sure power is turned OFF at the branch circuit breaker.
2. Wire units as shown per the "Wiring Diagram" section.
3. Mount the unit to wall box.
4. All installations should comply with the National Electrical Code and all state and local codes including Canadian Electrical code.
5. Turn power back ON at the branch circuit breaker and wait for the unit to stabilize.



Wall plate not included

A WIRELESS LIGHT SWITCH INSTALLATION DETAIL
SCALE: NONE

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ELECTRICAL SCHEDULES & DETAILS

SHEET: 7 / 8
E2.1
SCALE: PER PLAN

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PROJECT #: 2361

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
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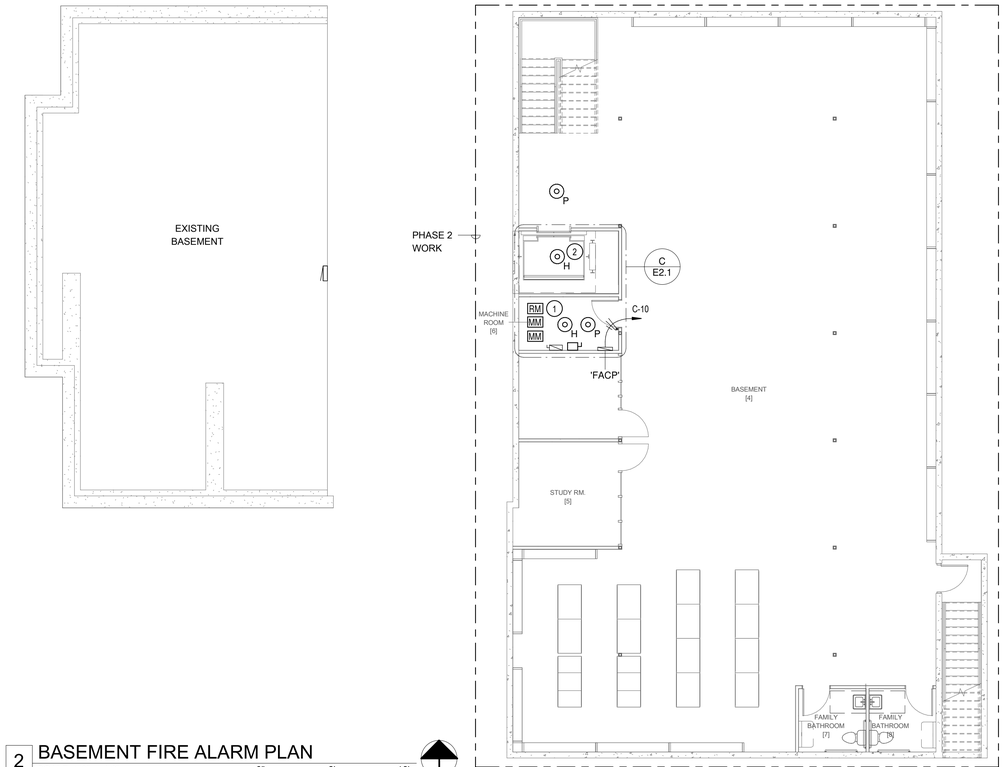
www.payneengineeringinc.com

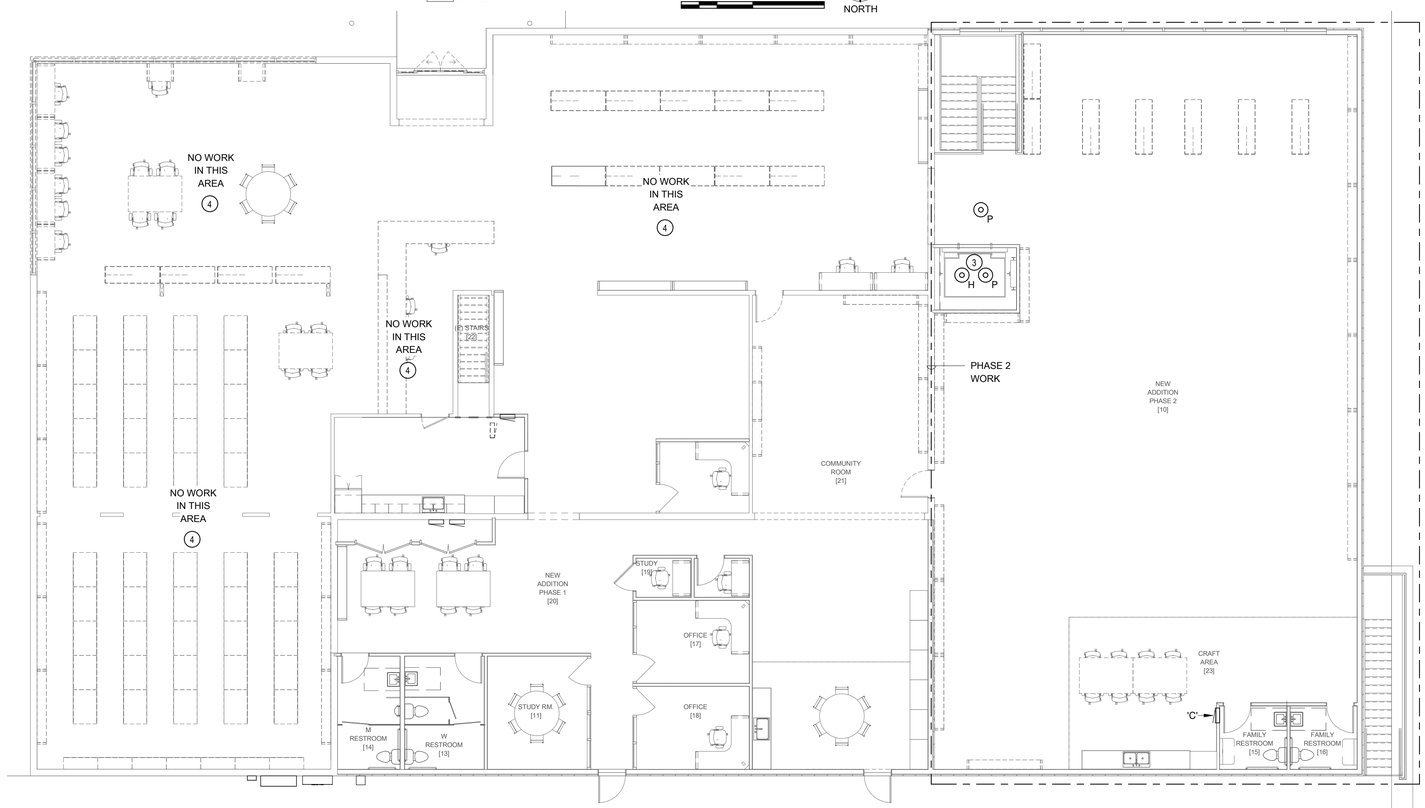


2 BASEMENT FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

0" 8' 16'

NORTH



1 MAIN LEVEL FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

0" 8' 16'

NORTH

FIRE ALARM SYMBOL SCHEDULE

NOTE: ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL (WALL MOUNTED, TOP AT 6'-0" AFF)
NAC	NOTIFICATION DEVICE EXTENDER PANEL. PROVIDE QTY AS REQUIRED BASED ON DEVICE VOLTAGE DROP CALC'S PER NFPA 72 REQUIREMENTS. (WALL MOUNTED, TOP AT 5'-0" AFF)
RA	REMOTE ANNUCIATOR PANEL (FLUSH MOUNTED IN WALL AT 5'-0" AFF)
F	MANUAL PULL STATION (MOUNTING HEIGHT PER ADA & NFPA 72)
	MAGNETIC DOOR HOLD OPEN
CM	ADDRESSABLE CONTROL/RELAY MODULE
MM	ADDRESSABLE MONITORING MODULE
FS	FIRE ALARM FLOW SWITCH
TS	FIRE ALARM TAMPER SWITCH
SD	FIRE ALARM SMOKE DAMPER
#	ADDRESSABLE DETECTOR WITH BASE
	DETECTOR SUBSCRIPTS P PHOTOELECTRIC SMOKE DETECTOR — D DUCT SMOKE DETECTOR ID IN-DUCT SMOKE DETECTOR — H HEAT DETECTOR M MULTI-STATION SMOKE DETECTOR (120V W/BATTERY BACKUP) M/S MULTI-STATION SMOKE DETECTOR W/VISIBLE STROBE (120V W/BATTERY BACKUP) M/C MULTI-STATION SMOKE / CARBON MONOXIDE DETECTOR (120V W/BATTERY BACKUP)
SD	FIRE/SMOKE DAMPER; COORDINATE LOCATIONS WITH MECH. DRAWINGS
	EXTERIOR 120V FIRE BELL, INSTALL NEXT TO FDC.
	WALL OR CEILING MOUNTED FIRE ALARM HORN ONLY
	WALL MOUNTED FIRE ALARM STROBE OR HORN/STROBE PROVIDE CANDELA RATING AS REQUIRED BY NFPA 72
	CEILING MOUNTED FIRE ALARM STROBE OR HORN/STROBE PROVIDE CANDELA RATING AS REQUIRED BY NFPA 72

GENERAL FIRE ALARM SYSTEM NOTES

A. DO NOT INSTALL MORE THAN (10) NOTIFICATION APPLIANCES ON ANY SINGLE CLASS "A" SIGNAL CIRCUIT. DO NOT EXCEED 400 FT. OF NO. 14 WIRE IN THE TOTAL LOOP.
B. NFPA ALLOWS NOTIFICATION APPLIANCES TO BE MOUNTED AT A HEIGHT RANGE BETWEEN 80" TO 96" ABOVE FINISH FLOOR. THE PREFERRED HEIGHT IS 80". IF THIS CONFLICTS WITH OTHER TRADES OR ROOM FURNISHINGS, LOCATE AS CLOSE TO 80" AS POSSIBLE, NOT EXCEEDING 96". ALL NOTIFICATION APPLIANCES IN A COMMON ROOM OR LINE OF SIGHT SHALL BE LOCATED AT A COMMON HEIGHT.
C. MOUNT PULL STATIONS AT 46-48" A.F.F. TO THE OPERATING HANDLE TO MEET ADA REQUIREMENTS.
D. DO NOT CONNECT THE FIRE ALARM SYSTEM TO ANY DEVICE WHICH HAS A POWER HELD CONTACTS.(FLOW, TAMPER, HOOD SYSTEM, DUCT DETECTOR, ETC..FALSE ALARM WILL OCCUR.
E. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL CONDUCTOR QUANTITIES PER FIRE ALARM SYSTEM SUPPLIER, AND AS PER NFPA AND NEC REQUIREMENTS.
F. DO NOT INSTALL ANY SMOKE OR HEAT DETECTORS WITHIN 3 FEET OF ANY AIR DIFFUSER.
G. DO NOT EXCEED 2500 FEET ON ANY ADDRESSABLE DEVICE RUN. DO NOT EXCEED 120 DEVICES ON ANY ONE ADDRESSABLE DEVICE RUN.
H. ALL AIR HANDLING EQUIPMENT 2000 CFM OR MORE MUST BE SHUT DOWN UPON FIRE ALARM AS PER LIFE SAFETY CODES.
I. ALL CLASS "B" INITIATING CIRCUITS WITH ADDRESSABLE DEVICES NEED EOLR. (END OF LINE RESISTORS).
J. IN CORRIDORS, NOTIFICATION APPLIANCES MUST BE LOCATED WITHIN 15' FROM ENDS OF CORRIDORS AND A MAXIMUM OF 100' SPACING.
K. NOTIFICATION APPLIANCES TO BE SYNCHRONIZED TO PROVIDE A 3-3-3 TEMPORAL PATTERN.
L. ALL WIRING AND CONDUIT ROUTING TO BE AS DESCRIBED ON SUPPLIED SHOP DRAWINGS. FIRE ALARM PLAN IS SHOWN FOR GENERAL LOCATION AND LAYOUT ONLY.
M. THE FIRE ALARM SYSTEM TO BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND ADA REQUIREMENTS.
N. ELECT. CONTR. TO CONNECT SPRINKLER SYSTEM TAMPER SWITCHES AND FLOW VALVES TO FIRE ALARM SYSTEM AS REQUIRED. SEE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES.

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDING BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

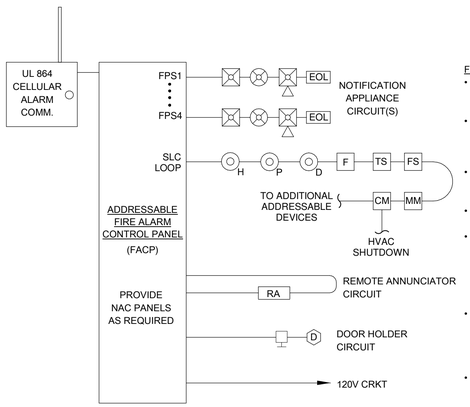
(#) KEY NOTES:

1 PROVIDE RELAY/MONITOR MODULES AS REQUIRED FOR FIRE ALARM SYSTEM INTERCONNECTION TO ELEVATOR PER NFPA 72. INTERCONNECTIONS SHALL INCLUDE BUT NOT BE LIMITED TO; PRIMARY/SECONDARY RECALL, FIREMAN'S HAT, SHUNT-TRIP CONTROL AND SHUNT-TRIP VOLTAGE MONITORING.
2 LOCATE HEAT DETECTOR(S) IN ELEVATOR PIT. DETECTOR(S) ARE REQUIRED ONLY WHEN ELEVATOR PIT IS SPRINKLERED AND SPRINKLER HEAD IS +24" ABOVE PIT FLOOR. FIELD VERIFY WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.
3 LOCATE DETECTORS IN ELEVATOR HOISTWAY, DETECTORS REQUIRED ONLY WHEN ELEVATOR HOISTWAY IS SPRINKLERED. FIELD VERIFY WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.
4 ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING AND ETC. IN THIS AREA SHALL REMAIN ACTIVE, UNLESS NOTED OTHERWISE. LOCATE AND PROTECT DURING CONSTRUCTION, MAINTAIN/RE-ESTABLISH CONTINUITY TO ALL DEVICES AS NEEDED.

FIRE ALARM SYSTEM DESIGN:

FIRE ALARM SYSTEM SHALL BE DESIGN BUILD BY THE ELECTRICAL CONTRACTOR. PROVIDE AND INSTALL AS REQUIRED BY MOST CURRENT ADOPTED INTERNATIONAL FIRE CODE AND LOCAL AHJ REQUIREMENTS. PROVIDE ALL DOCUMENTATION, DRAWINGS, VOLTAGE DROP AND BATTERY CALCULATIONS AND ECT. TO THE CITY FOR PERMITTING AND INSTALLATION.

A. VERIFY PLACEMENT OF FIRE ALARM CONTROL PANEL, NAC PANEL(S) AND REMOTE ANNUCIATOR(S) WITH LOCAL AHJ AND OWNER.
B. NFPA ALLOWS NOTIFICATION APPLIANCES TO BE MOUNTED AT A HEIGHT RANGE BETWEEN 80" TO 96" ABOVE FINISH FLOOR. THE PREFERRED HEIGHT IS 80". IF THIS CONFLICTS WITH OTHER TRADES OR ROOM FURNISHINGS, LOCATE AS CLOSE TO 80" AS POSSIBLE, NOT EXCEEDING 96". ALL NOTIFICATION APPLIANCES IN A COMMON ROOM OR LINE OF SIGHT SHALL BE LOCATED AT A COMMON HEIGHT.
C. MOUNT PULL STATIONS AT 46-48" A.F.F. TO THE OPERATING HANDLE TO MEET ADA REQUIREMENTS.
D. IN CORRIDORS, NOTIFICATION APPLIANCES MUST BE LOCATED WITHIN 15' FROM ENDS OF CORRIDORS AND A MAXIMUM OF 100' SPACING.
E. PROVIDE THE REQUIRED CANDELA RATING OF ALL NOTIFICATION APPLIANCES ACCORDING TO ROOM SIZE,ETC.
F. NOTIFICATION APPLIANCES TO BE SYNCHRONIZED TO PROVIDE A 3-3-3 TEMPORAL PATTERN.
G. ALL APARTMENT UNITS SHALL BE PROVIDED WITH MULTI-STATION SMOKE DETECTORS AND LOW FREQUENCY NOTIFICATION DEVICES IN COMPLIANCE WITH NFPA 72, ADA UNITS SHALL BE PROVIDED WITH AUDIBLE AND VISIBLE NOTIFICATION DEVICES.
H. ALL NOTIFICATION DEVICES LOCATED IN SLEEPING ROOMS SHALL BE 177 CANDELA.
I. PROVIDE ALL REQUIRED MONITORING, INITIATION DEVICES AND INTERCONNECTIONS FOR ELEVATORS, COMMERCIAL KITCHEN HOODS AND FIRE SPRINKLER RISER(S).
J. COORDINATE WITH FIRE SPRINKLER CONTRACTOR FOR ALL MONITORING POINTS OF FIRE SPRINKLER SYSTEM.
K. PROVIDE AUTOMATIC SHUT DOWN WITH DUCT SMOKE DETECTORS FOR ALL HVAC EQUIPMENT GREATER THAN 2000 CFM.



FIRE ALARM SYSTEM NOTES:

- CONTRACTOR SHALL PROVIDE MONITORING OF FIRE ALARM SYSTEM, INITIATE WITH OWNER IN REGARDS TO SYSTEM MONITORING.
- FIRE ALARM SYSTEM CONDUIT ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR TO MEET THE SPECIFIED DESIGN CRITERIA.
- NOTIFICATION EXTENDER PANEL'S (NAC) SHALL BE PROVIDED AS NEEDED FOR THE CIRCUITING OF THE NOTIFICATION DEVICES AS INDICATED ON DRAWINGS.
- ALL THE FIRE ALARM SYSTEM CABLING SHALL BE RUN IN CONDUIT.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND REQUIRED CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AND OBTAIN A WRITTEN LETTER OF ACCEPTANCE OF THE PROPOSED SYSTEM. INCLUDE LETTER WITH SHOP DRAWING SUBMITTAL TO ENGINEER.
- E.C. SHALL PROVIDE AND INSTALL CELLULAR ALARM COMMUNICATOR FOR FIRE ALARM SYSTEM MONITORING, TELGUARD TG-7FS LTE OR EQUAL. SYSTEM SHALL BE UL LISTED AND COMPLIANT WITH NFPA 72 REQUIREMENTS.
- E.C. SHALL PROVIDE AND INSTALL CELLULAR ALARM COMMUNICATOR FOR FIRE ALARM SYSTEM MONITORING, TELGUARD TG-7FS LTE OR EQUAL. SYSTEM SHALL BE UL LISTED AND COMPLIANT WITH NFPA 72 REQUIREMENTS.
  PROVIDE (1) YEAR RENEWABLE CELLULAR SERVICE COORDINATE SERVICE PROVIDER WITH OWNER.

A FIRE ALARM RISER DIAGRAM

SCALE: NONE

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FIRE ALARM PLANS

SHEET: 8 / 8

E3.0

SCALE: PER PLAN

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