DOOR HARDWARE SCHEDULE

080671 - 11

DOOR HARDWARE SCHEDULE

080671 - 12

1 SFIC l Door Pull 1 SFIC 1 Kick Plate 1 SFIC 1 Kick Plate 1 Gasketing 3 Silencer 1 SFIC Kick Plate 1 Gasketing Free egress at all times. As loss of power doors be unlocked (fail safe). Coordinate with security and consolidate power as req'd. Doors: 107, 114, 115, 116, 119, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 150, 158, 162, 201, 202, 203, 204, 205, 206, 207, 212, 217, 301, 303, 304, 305, 311, 312, 313, 314, 315, 316, 317, 318, 320, 322, 323, 329 DOOR HARDWARE SCHEDULE

CROSSROADS CENTER HEADQUARTERS CINCINNATI, OH Set: 2.1 Doors: 117A, 149A CFM HD1-M PT 1 Continuous Hinge 1 Electric Power Transfer **EL-CEPT** 630 1 Exit Device (rim, nightlatch) 6100 B P A-ALR 121NL 630 Match/expand as required RM3311 US32D RO 1 Conc Overhead Stop 1-x36 630 5801 (mount as req'd) 689 Surface Closer Kick Plate K1050 - 10" x 2" LDW x 4BE x CSK US32D RO 1 Head Gasketing 2891AS 1 Jamb Gasketing Set 290AS Wiring Diagram By Security Contractor 1 Door Harness QC-Cxxx QC-C3000P 1 Frame Harness 1 Position Switch Access Control Reader By Security Contractor 1 Power Supply Door is normally closed and locked. Presenting a valid credential to reader will retract latch, allowing entry via pull. Presenting a valid credential to reader on egress side of door will momentarily disarm the alarm. Attempted egress with presenting a valid credential to reader will trigger alarm. Entry also by key in cylinder. As loss of power doors remain locked (fail secure). Coordinate with security and consolidate power as reg'd. Doors: 117B, 149B, 208, 215, 307, 325 T4A3786 QC_ (Size per spec) US26D MK 1 Electric Hinge (heavy weight) T4A3786 (Qty & size per spec, NRP US26D MK 2 Hinge (heavy weight) 1 Electrified Rim Exit, Fail Safe 6100FED B AU690F 630 YA Match/expand as required 1 Surface Closer 5801 (mount as req'd) 689 YA K1050 - 10" x 2" LDW x 4BE x US32D RO DOOR HARDWARE SCHEDULE 080671 - 3 CROSSROADS CENTER HEADQUARTERS CINCINNATI, OH 1 Storeroom or Closet Lock AU 4705LN 626 YA Match/expand as required 1 Surf Overhead Stop 10-x36 1 Surface Closer 5801 (mount as req'd) 689 YA K1050 - 10" x 2" LDW x 4BE x US32D RO 608 / 609 Set: 10.1 Doors: 102A, 126A, 133A, 133B men TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise 1 Storeroom or Closet Lock AU 4705LN 626 YA Match/expand as required 630 RF 1 Surf Overhead Stop 10-x36 5801 (mount as req'd) 689 YA 1 Surface Closer 1 Electric Strike K1050 - 10" x 2" LDW x 4BE x CSK US32D RO 1 Position Switch 1 Access Control Reader By Security Contractor AQL (Amerage & relays as req'd) 1 Power Supply Door is normally closed and locked. Presenting a valid credential to reader will allow entry via lever

080671 - 8

CROSSROADS CENTER HEADQUARTERS CINCINNATI, OH 1 Wall Stop US32D RO 1 Gasketing 1 Wiring Diagram By Security Contractor 1 Door Harness QC-Cxxx 1 Frame Harness QC-C3000P 1 Position Switch 1 Access Control Reader By Security Contractor 1 Power Supply AQL (Amerage & relays as req'd) Door is normally closed and locked. Presenting a valid credential to reader will allow entry via lever Entry also by key in cylinder. Free egress at all times. As loss of power doors be unlocked (fail safe). Coordinate with security and consolidate power as req'd. Set: 4.0 Doors: 100B CFM_SLF-HD1 620DB Match/expand as required RM3311 6-X36 5801 (mount as req'd) BY ALUMINUM DOOR SUPPLIER 18061CNB 252x3AFG DPS

2 Push Bars 630 YA 1 SFIC 2 Door Pull US32D RO 630 RF 2 Conc Overhead Stop 689 YA 2 Surface Closer 1 Weatherseal 2 Sweep Alum PE 1 Threshold 2 Position Switch Set: 5.0 Doors: 109A, 111B, 128, 130B T4A3786 (Qty & size per spec, NRP US26D MK 3 Hinge (heavy weight)

CROSSROADS CENTER HEADQUARTERS CINCINNATI, OH TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise as reg'd) 1 Entry/Office Lock AU 4704LN 1 SFIC Match/expand as required 1 Wall Stop US32D RO 400 Series 1 Gasketing

DOOR HARDWARE SCHEDULE

Set: 12.0 Doors: 131B, 151, 213, 214, 224, 339 TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise as reg'd) 1 Classroom Lock AU 4708LN 1 SFIC Match/expand as required 1 Wall Stop 400 Series 1 Gasketing S88D Set: 13.0 3 Hinge, Full Mortise 1 Classroom Lock AU 4708LN

TA2714 (Qty & size per spec, NRP US26D MK 626 YA 1 SFIC Match/expand as required 1 Surf Overhead Stop 1 Gasketing Set: 14.0 Doors: 104, 108, 124, 125, 127, 210, 211, 216, 219, 221, 223, 229, 230, 231, 233, 302, 308, 326, 331, 332, 333, 334, 340, 342, 343

TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise AU YPL02 626 YA 1 Privacy 1 Surface Closer 689 YA 5801 (mount as req'd) K1050 - 10" x 2" LDW x 4BE x US32D RO 1 Kick Plate US32D RO 1 Wall Stop 400 Series 1 Gasketing S88D US32D RO 1 Coat Hook RM802 DOOR HARDWARE SCHEDULE

CROSSROADS CENTER HEADQUARTERS CINCINNATI, OH

Rim Exit Device, 6100ED AU426F 630 YA 1 Classroom/Storeroom 1 SFIC Match/expand as required 689 YA 1 Surface Closer 5801 (mount as reg'd) K1050 - 10" x 2" LDW x 4BE x US32D RO 1 Kick Plate 1 Wall Stop US32D RO 400 Series 1 Gasketing

Set: 5.1

Doors: 109B, 111A T4A3786 (Qty & size per spec, NRP US26D MK 3 Hinge (heavy weight) . Rim Exit Device. 6100ED AU426F 630 YA ¹ Classroom/Storeroom 1 SFIC Match/expand as required 1 Surface Closer 5801 (mount as req'd) 689 YA K1050 - 10" x 2" LDW x 4BE x US32D RO 1 Kick Plate CSK 1 Wall Stop 400 Series US32D RO 1 Gasketing

Set: 6.0 Doors: 118A T4A3786 (Qty & size per spec, NRP US26D MK 3 Hinge (heavy weight) Rim Exit Device, 6100ED AU426F 630 YA Classroom/Storeroom 689 YA 1 Surface Closer 5801 (mount as reg'd) K1050 - 10" x 2" LDW x 4BE x US32D RO 1 Kick Plate 1 Wall Stop US32D RO 400 Series 1 Gasketing

CROSSROADS CENTER HEADQUARTERS CINCINNATI, OH

DOOR HARDWARE SCHEDULE

080671 - 4

080671 - 9

626 YA

US32D RO

Set: 15.0 Doors: 153, 154 TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise as reg'd) 1 Privacy AU YPL02 626 YA 1 Surf Overhead Stop 10-x36 630 RF 5801 (mount as req'd) 689 YA 1 Surface Closer K1050 - 10" x 2" LDW x 4BE x US32D RO 1 Kick Plate S88D 1 Gasketing US32D RO 1 Coat Hook

Set: 16.0 Doors: 159, 161, 209, 327 TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise as reg'd) AU 4701LN 626 YA 1 Passage Latch US32D RO 1 Wall Stop 400 Series 1 Gasketing S88D

Set: 17.0 Doors: 105 TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise as req'd) 626 YA 1 Passage Latch AU 4701LN 1 Wall Stop 400 Series US32D RO S88D

Size hinge for 180 swing to wall.

1 Gasketing

Set: 18.0 Doors: 220, 344 TA2714 (Qty & size per spec, NRP US26D MK 3 Hinge, Full Mortise as req'd) 626 YA 1 Passage Latch AU 4701LN

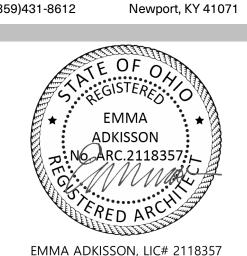
DOOR HARDWARE SCHEDULE 080671 - 10 ter 7 ding 4

DATE NO. DESCRIPTION PERMIT SET 08/09/24 ADDENDUM 1 08/29/24 09/06/24 ADDENDUM 2

DOOR HARDWARE SETS

23-056

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EXPIRATION DATE 12/31/2025

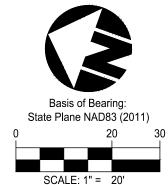
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PRINT DATE:

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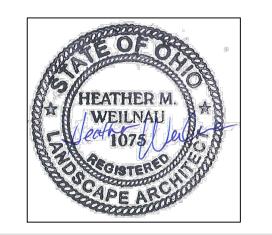
Size hinges and mount closer to ensure 180 degree swing. Doors to swing to wall and out of corridor.

080671 - 5





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1404 Race Street, Suite 204 Cincinnati, OH 45202 - 513.834.6151

SUPPLEMENTAL PLANT SCHEDULE

HARDWOOD MULCH AT SUPPLEMENTAL PLANTING BEDS (IN LIEU OF SEEDED LAWN AS SHOWN ON SHEET L200)

THIS SHEET'S PLANT SCHEDULE LISTS SUPPLEMENTAL PLANTINGS ONLY. SEE SHEET L200 FOR ZONING REQUIRED PLANTS.

3. SEE PLANTING NOTES & DETAILS AND SPECIFICATIONS SHEETS.

DESCRIPTION

EXISTING VEGETATION

SEEDED LAWN. SEE SHEET L200.

ZONING MINIMUM PLANT SYMBOLS SHOWN ARE SHOWN ON THIS SHEET FOR REFERENCE AND ARE IDENTIFIED ON SHEET L200.

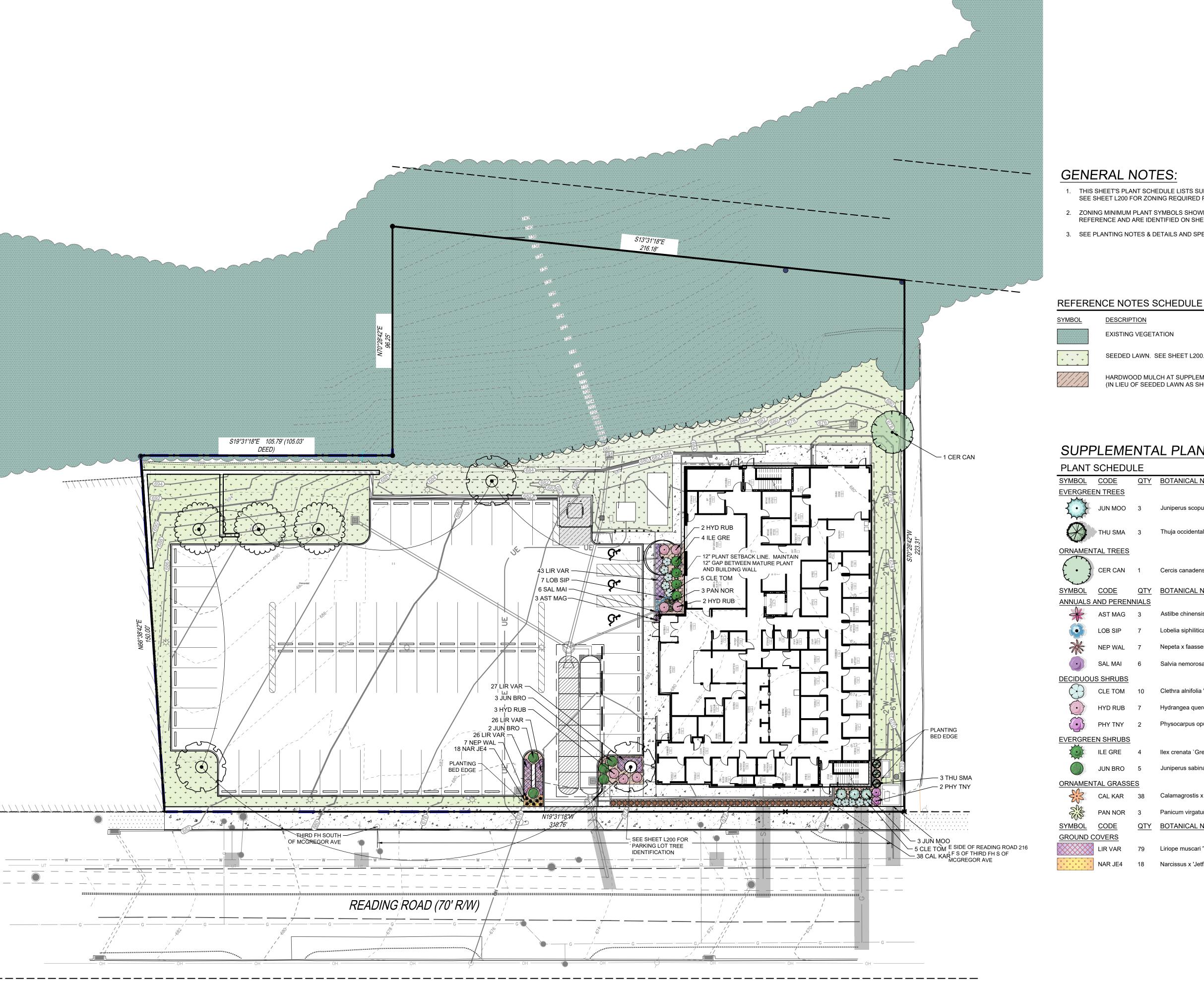
PLANT	SCHEDU	LE				
SYMBOL	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	<u>TYPE</u>	MIN. SIZE
EVERGREI	EN TREES					
1.7	JUN MOO	3	Juniperus scopulorum 'Moonglow'	Moonglow Juniper	B & B	5` Ht.
	THU SMA	3	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	B & B	4` Ht.
ORNAMEN	TAL TREES					
	CER CAN	1	Cercis canadensis	Eastern Redbud	В&В	1.5" Cal
SYMBOL	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	SIZE	<u>HEIGHT</u>
ANNUALS	AND PERENI	NIALS				
	AST MAG	3	Astilbe chinensis `Maggie Daley`	Maggie Daley Astilbe	1 gal	Clump
	LOB SIP	7	Lobelia siphilitica	Great Lobelia	1 gal	Clump
*	NEP WAL	7	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	1 gal	Clump
	SAL MAI	6	Salvia nemorosa 'Mainacht'	Maynight Meadow Sage	1 gal	Clump
DECIDUOL	JS SHRUBS					
	CLE TOM	10	Clethra alnifolia 'Tom's Compact'	Tom's Compact Summersweet	3 gal	18" Ht.
	HYD RUB	7	Hydrangea quercifolia `Ruby Slippers`	Ruby Slippers Hydrangea	5 gal	24" Ht.
	PHY TNY	2	Physocarpus opulifolius `SMPOTW` TM	Tiny Wine Ninebark	3 gal	24" Ht.
EVERGRE	EN SHRUBS					
	ILE GRE	4	llex crenata `Green Lustre`	Green Luster Japanese Holly	3 gal	18" Ht.
	JUN BRO	5	Juniperus sabina `Broadmoor`	Broadmoor Juniper	3 gal	15" Ht.
ORNAMEN	TAL GRASSE	<u> </u>				
23	CAL KAR	38	Calamagrostis x acutiflora `Karl Foerster`	Feather Reed Grass	2 gal	Clump
ENS.	PAN NOR	3	Panicum virgatum `North Wind`	Northwind Switch Grass	3 gal	Clump
SYMBOL	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT	<u>SPACE</u>
GROUND (COVERS					
	LIR VAR	79	Liriope muscari 'Variegata'	Variegated Lilyturf	1 gal	15" o.c.
+ + + + + + + +	NAR JE4	18	Narcissus x 'Jetfire'	Jetfire Daffodil	10/12 Bulb	15" o.c.

DATE NO. DESCRIPTION 09/06/24 2 ADDENDUM 2

> PLANTING PLAN SUPPLEMENTAL **PLANTS**

> > 23-056





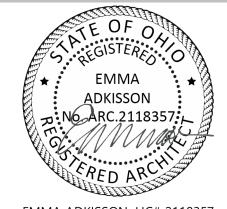
Know what's below.

Call before you dig. LOCATION OF ALL EXISTING
UTILITIES TO BE
DETERMINED IN THE FIELD

PRIOR TO CONSTRUCTION



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EMMA ADKISSON, LIC# 2118357 EXPIRATION DATE 12/31/2025

Crossroads Center
Reading Road, Cincinnati, Ohio, 45202

NO. DESCRIPTION DATE

PERMIT SET 08/09/24
ADDENDUM 1 08/29/24

ADDENDUM 1 08/29/24 ADDENDUM 2 09/06/24

ARCHITECTURAL SITE PLAN

23-056

AS101

ROOF PLAN

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

GENERAL NOTES - ROOF PLAN

- ROOF PLAN DOES NOT SHOW ALL MECHANICAL / ELECTRICAL ROOFTOP EQUIPMENT AND PENETRATIONS, SUCH AS PLUMBING VENT. SEE RESPECTIVE DRAWINGS FOR SUCH
- EQUIPMENT AND PENETRATIONS. PROVIDE TAPERED INSULATION CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP
- MOUNTED EQUIPMENT. PROVIDE FLASHING AT ALL ROOF PENETRATIONS AS REQUIRED BY ROOFING
- MANUFACTURER TO PROVIDE WATERTIGHT INSTALLATION AND COMPLY WITH WARRANTY REQUIREMENTS
- PREFABRICATED ALUMINUM AWNING SHALL BE MAPES ARCHITECTURAL HANGER ROD CANOPY OR EQUAL. PROVIDE FLAT SOFFIT AND 8" HIGH SMOOTH 'J' FASCIA. WALLMOUNTED BOLTS SHALL BE CONCEALED WITHIN CANOPY SYSTEM. FLASH ROOF SURFACE TO WALL TO PROVIDE WATERTIGHT TRANSITION.

ROOF PLAN LEGEND

ROOF SLOPE DOWN (PITCH)

SCUPPER WITH CONDUCTOR HEAD AND 3" x 4" DOWNSPOUT

3" x 4" DOWNSPOUT

PREFINISHED METAL

- FIBER CEMENT SIDING

4" x 8" METAL LINED

CONDUCTOR HEAD

PREFINISHED METAL CONDUCTOR HEAD

METAL DOWNSPOUT

PREMANUFACTURED ALUMINUM AWNING

- PREMANUFACTURED ALUMINUM AWNING

A202

- PREMANUFACTURED ALUMINUM AWNING

W/ DOWNSPOUT

W/ DOWNSPOUT

W/ DOWNSPOUT

2 A201

SCUPPER OPENING. EXTEND

FLASHING MIN. 1/2" BEYOND

OVER FLASHING

COPING

- 2X6 FRAMING

GUTTER 6" GUTTER

OVERFLOW SCUPPER WITH INLET ELEVATION 2" ABOVE ADJACENT PRIMARY

TAPERED ROOF INSULATION ON ROOF INSULATION

PRIMARY ROOF DRAIN

SECONDARY OVERFLOW ROOF DRAIN

WALKWAY PADS

2/1B033

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EMMA ADKISSON, LIC# 2118357 EXPIRATION DATE 12/31/2025

NO. DESCRIPTION DATE

PERMIT SET 08/09/24 09/06/24 ADDENDUM 2

ROOF PLAN

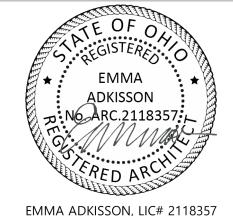
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A103

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EMMA ADKISSON, LIC# 2118357 EXPIRATION DATE 12/31/2025

The Crossroads Center 2114 Reading Road, Cincinnati, Ohio, 45202

NO. DESCRIPTION DATE

PERMIT SET 08/09/24 ADDENDUM 2 09/06/24

EXTERIOR ELEVATIONS

23-056

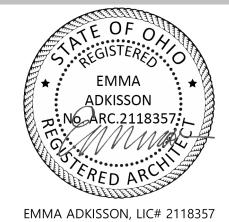
A200

GENERAL NOTES - ELEVATIONS

- ACM METAL PANELS TYPE '1' BASIS-OF-DESIGN: ALPOLIC CMC LBM BLUE MATTE LOT #060820
- ACM METAL PANELS TYPE '2' BASIS-OF-DESIGN: ALFREX 2 COAT
- SOLIDS DARK GRAY JY-6140
- BRICK BASIS-OF-DESIGN: HEBRON BRICK SEA GREY #6, SMOOTH,
- "WOOD LOOK" METAL PANEL, 6" EXPOSURE BASIS-OF-DESIGN: ALFREX WOOD SERIES TEAK JY-W120
- "WOOD LOOK" FIBER CEMENT WALL PANEL 6" EXPOSURE BASIS-OF-DESIGN: NICHIHA VINTAGE WOOD SERIES; POPLAR



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EXPIRATION DATE 12/31/2025

The Crossroads 2114 Reading Road, Cinc

NO. DESCRIPTION

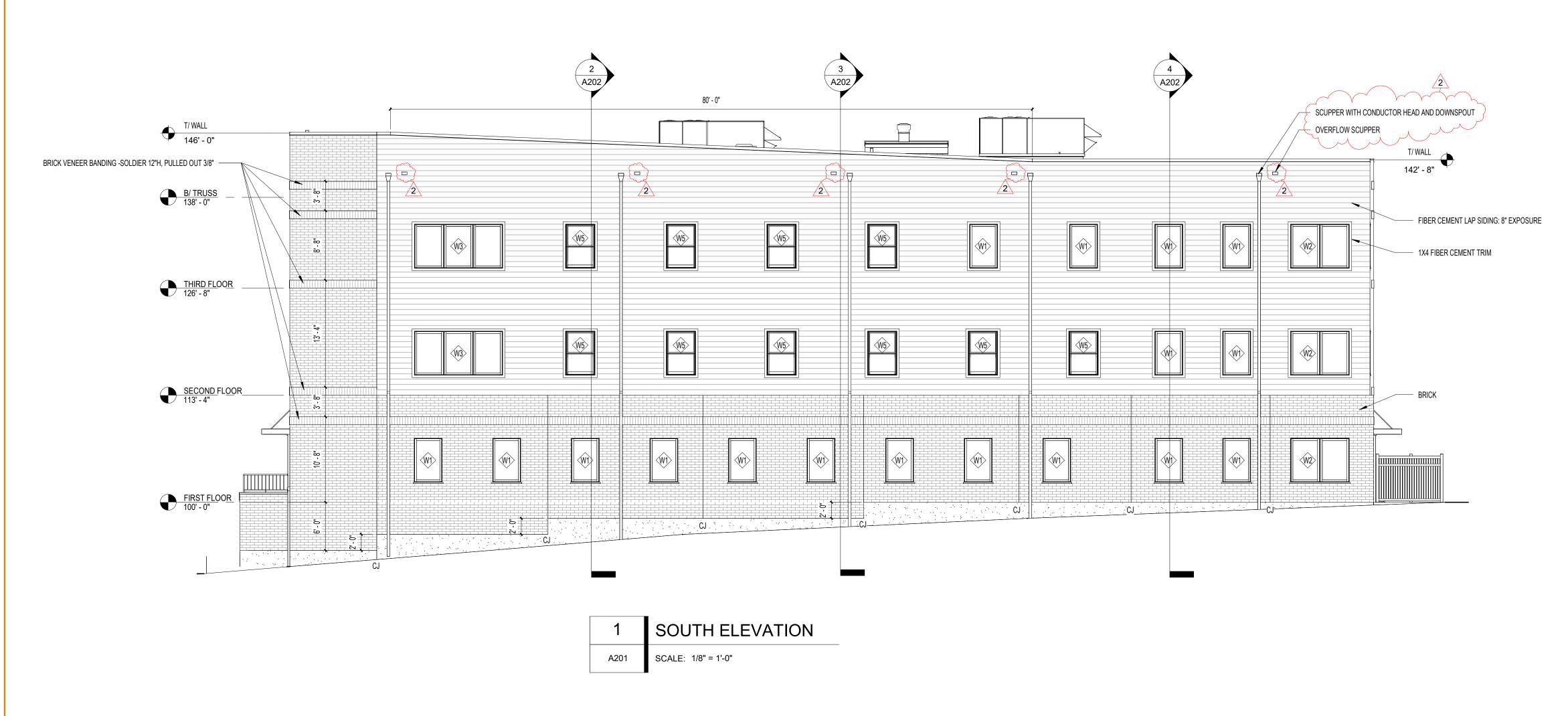
08/09/24 PERMIT SET 09/06/24 ADDENDUM 2

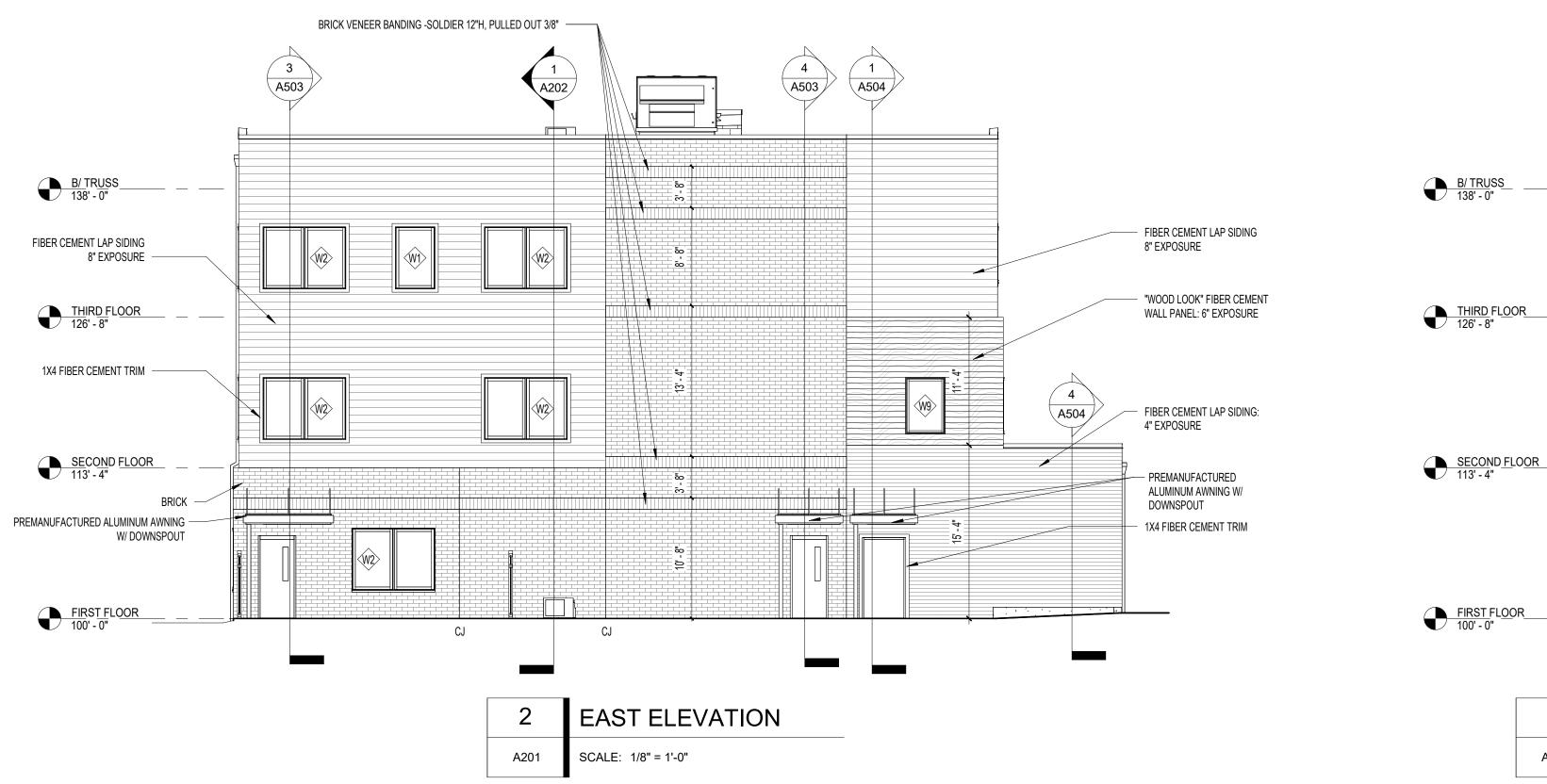
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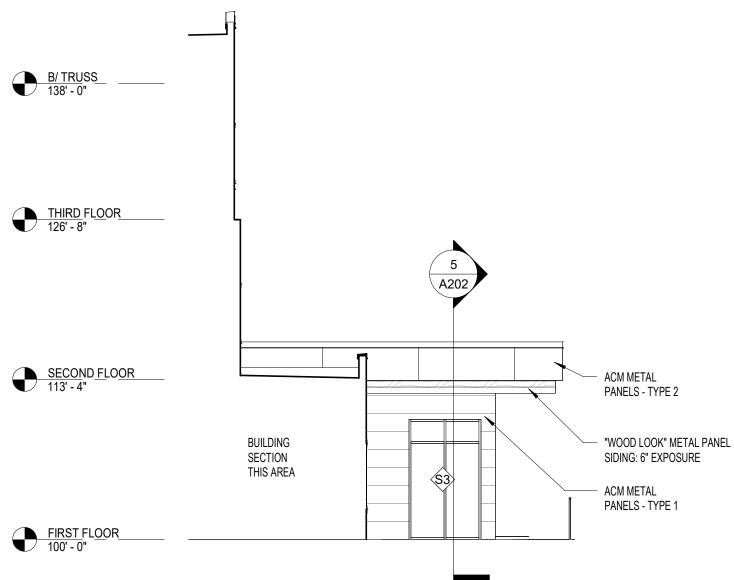
EXTERIOR ELEVATIONS

23-056

A201







PARTIAL EAST ELEVATION SCALE: 1/8" = 1'-0" A201

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PRINT DATE:

GENERAL NOTES - DOOR & FRAME SCHEDULE

- A. ALL DOORS SHALL BE MADE READILY OPERABLE FROM SIDE WHICH EGRESS IS TO BE MADE WITHOUT A KEY OR SPECIAL KNOWLEDGE
- B. ALL LATCHSETS AND LOCKSETS ARE TO BE CYLINDRICAL SETS WITH ADA COMPLIANT LEVER HANDLES
- C. PROVIDE WALL MOUNTED STOPS WHENEVER POSSIBLE.
- D. ALL FIRE RATED DOORS SHALL BE LATCHING AND SELF OR AUTOMATIC CLOSING IN ACCORDANCE WITH SECTION 716.5.9 OF THE 2017 OHIO BUILDING CODE
- HOLLOW METAL DOORS TO BE INSULATED & GALVANIZED AT EXTERIOR LOCATIONS
- F. HOLLOW METAL FRAMES TO BE GALVANIZED AT EXTERIOR LOCATIONS

DOOR & FRAME ABBREVIATIONS

- AL ALUMINUM
- HM HOLLOW METAL
- PF PREFINISHED PT PAINT
- S STAINED
- WD WOOD

				DC	OOR AN	D FRA	ME SC	HEDUL	E - CO	MMON	AREAS	6					
		# OF		DOC	OR					FRA	ME			RATING	ACCESS		
# 100A	ROOM VESTIBULE	LEAFS 2	WIDTH 3' - 0"	HEIGHT 8' - 0"	TYPE D3	MATL AL	FINISH PF	TYPE S1	MATL AL	FINISH	HEAD	JAMB	SILL	(MINUTES)	CONTROL	HDWR SET	NOTES
100B	VESTIBULE	2	3' - 0"	8' - 0"	D3	AL	PF	S5	AL	PF					-	4.0	
102A 102B	RECEPTION RECEPTION	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					√ √	10.1 8.1	
104 105	PUBLIC RR WAITING	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	14.0 17.0	
103	PRIVATE CHECK-IN	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	11.0	
108 109A	PATIENT RESTROOM CLINICAL GROUP RM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D4	WD WD	S S	F1 F1	HM HM	PT PT					-	14.0 5.0	
109B	CLINICAL GROUP RM	1	3' - 0"	7' - 0"	D4	WD	S	F1	НМ	PT					-	5.1	
111A 111B	IOP GROUP ROOM IOP GROUP ROOM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D4 D4	WD	S S	F1 F1	HM HM	PT PT					-	5.1 5.0	
112 114	STORAGE INTAKE OFFICE	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	8.0 11.0	
115	INTAKE ASSESS OFFICE	1	3' - 0"	7 - 0"	D1	WD	S	F1	HM	PT					-	11.0	
116 117A	INTAKE COORD OFFICE STAIR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D5	WD HM	S PT	F1 F2	HM HM	PT PT					- ✓	11.0 2.1	
117B	STAIR	1	3' - 0"	7' - 0"	D1	WD	S	F2	НМ	PT				60	√	3.0	
118A 118B	RECEIVING RECEIVING	1	3' - 6" 3' - 6"	7' - 0" 7' - 0"	D1 D2	WD HM	S PT	F1 F1	HM HM	PT PT					- ✓	6.0 2.0	
119 121A	IOP COUNSELOR DOSING/ PHARMACY	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					- ✓	11.0 8.1	
121B	DOSING/ PHARMACY	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					√	8.1	
121C 122	DOSING/ PHARMACY STORAGE	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	7.0 8.0	
123	ESR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	8.0	
124 125	STAFF TOILET STAFF TOILET	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	14.0 14.0 2	
126A 126B	RESIDENT CORRIDOR RESIDENT CORRIDOR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					√ √	10.1	
127	PATIENT RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	14.0 /2	2
128 129	ELECTRIC / DATA MEP	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	5.0	
130A 130B	DINING ROOM DINING ROOM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D5 D1	HM	PT S	F2 F1	HM HM	PT PT					√ -	2.0	
131A	SERVERY	1	3' - 0"	7 - 0"	D1	WD	S	F1	HM	PT					-	10.0	
131B 132	SERVERY DATA	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	12.0	
133A	CORRIDOR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					✓	10.1	
133B 134	CORRIDOR OFFICE	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	10.1	
135 136	OFFICE OFFICE	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 11.0	
137	CONSULT	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	11.0	
138 139	CARE COORDINATOR OFFICE MANAGER	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 11.0	
140	CONSULT	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	11.0	
141 142	PEER SUPPORT CONSULT	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 11.0	
143	CONSULT CONSULT	1	3' - 0" 3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	11.0	
144 145	CONSULT	1	3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 11.0	
146 147	CONSULT CONSULT	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 11.0	
148	CONSULT	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	11.0	
149A 149B	STAIR STAIR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D5 D1	HM WD	PT S	F2 F2	HM HM	PT PT				60	√ √	2.1 3.0	
150 151	OFFICE COPY RM / WORK RM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 12.0	
152	STORAGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	8.0	
153 154	PATIENT RESTROOM PATIENT RESTROOM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	15.0 15.0	
155 156	CORRIDOR LAB / BLOOD DRAW	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D5 D1	HM WD	PT S	F2 F1	HM HM	PT PT					√ -	2.0	
157	STORAGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	8.0	
158 159	CONSULT EXAM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	11.0 16.0	
160	CLEAN STORAGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	10.0	
161 162	EXAM CONSULT	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	16.0 11.0	
200 200A	CORRIDOR CL	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					√ -	21.0 9.0	
201	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	НМ	PT					-	11.0	
202	CONSULT CONSULT	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F3 F3	HM HM	PT PT			<u> </u>	<u>L</u> _	-	11.0 11.0	
204 205	MOTHER'S /HEALTH RM. CONSULT	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1	WD WD	S S	F1 F3	HM HM	PT PT					-	11.0 11.0	
206	CONSULT	1	3' - 0"	7' - 0"	D1	WD	S	F3	НМ	PT					-	11.0	
207	CARE COORDINATOR + PEER SUPPORT	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
208 209	STAIR EXAM	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1	WD WD	S S	F2 F1	HM HM	PT PT				60	√ -	3.0 16.0	
210	PATIENT RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	14.0	
211	STAFF RESTROOM OFFICE	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	14.0 11.0	
213	STAFF LOUNGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	12.0	
214 215	EXERCISE ROOM CORRIDOR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					- ✓	12.0 3.0	-
	RESIDENT RR COUNSELOR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1	WD WD	S S	F1 F1	HM HM	PT PT					-	14.0 11.0	
218A	TECH	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					- ✓	8.1	
218B 219	CORRIDOR RESIDENT RR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					-	8.0 14.0	
220	RESIDENT LAUNDRY	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	18.0	
221 222	CENTRAL BATHING MED DISPENSING STORAGE	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D1	WD WD	S S	F1 F1	HM HM	PT PT					- ✓	14.0 8.1	
223	RESIDENT RR	1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
225	GROUP RM	1	3' - 0" 2' - 6"	7' - 0" 7' - 0"	D1 D1	WD	S S	F1 F1	HM HM	PT PT					-	9.0	
	SNACK CL	•		+													. 7
226 229	SNACK CL STAIR QUIET ROOM	1 1	3' - 0" 3' - 0"	7' - 0" 7' - 0"	D1 D4	WD WD	S S	F2 F1	HM HM	PT PT				60	-	22.0 14.0	

				DOC)R					FRA	ME						
	2001	# OF					=							RATING	ACCESS		
#	ROOM	LEAFS	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	(MINUTES)	CONTROL	HDWR SET	NOTE
231	VISITATION	1	3' - 0"	7' - 0"	D4	WD	S	F1	HM	PT					-	14.0	
233	STAFF RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
234	MEP	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	10.0	
235	ESR	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	10.0	
300	CORRIDOR	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					√	22	
301	OFFICE	1	3' - 0"	7' - 0"	D4	WD	S	F1	HM	PT					-	11.0	
302	RESTROOM	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
303	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
304	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
305	HR HUDDLE ROOM	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
306	EXEC CONFERENCE RM	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	13.0	
307	STAIR	1	3' - 0"	7' - 0"	D1	WD	S	F2	HM	PT				60	✓	3.0	
808	STAFF TOILET	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
310	MED. RECORD STORAGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	8.0	
311	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
312	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
313	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	11.0	
314	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
315	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
316	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	HM	PT					-	11.0	
317	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	11.0	
318	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	НМ	PT					-	11.0	
320	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	НМ	PT					-	11.0	
321	HR STORAGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT				60	-	10.0	
322	SHARED OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	НМ	PT					-	11.0	
323	OFFICE	1	3' - 0"	7' - 0"	D1	WD	S	F3	НМ	PT					-	11.0	
325	CORRIDOR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					√	3.0	
326	PATIENT RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	14.0	
327	EXAM	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	16.0	
328	ESR	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	10.0	
329	THERAPY	1	3' - 0"	7' - 0"	D1	WD	S	F1	НМ	PT					-	11.0	
330	MEP	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	10.0	
331	STAFF RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
332	VISITATION	<u>·</u> 1	3' - 0"	7' - 0"	D4	WD	S	F1	HM	PT					-	14.0	
333	RESTROOM	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
334	QUIET ROOM	1	3' - 0"	7' - 0"	D4	WD	S	F1	HM	PT					-	14.0	
337	STAIR	1	3' - 0"	7' - 0"	D1	WD	S	F2	HM	PT				60	√	22.0	
338	SNACK CL	<u>'</u> 1	2' - 6"	7' - 0"	D1	WD	S	F1	HM	PT					-	9.0	
339	GROUP RM	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					_	12.0	
340	RESIDENT RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					_	14.0	
341	MED. DISPENSING STORAGE	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					√	8.1	
342	CENTRAL BATHING	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	14.0	
343	RESIDENT RR	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					_	14.0	
344 344	RESIDENTIAL LAUNDRY	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT						18.0	

						DC	JUK A	AND F	KAIVIE	20HEDU	JLE - KES	IDENTIA	IL UNITS			
			DOOR							FRAME						
#	# OF LEAFS	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	RATING (MINUTES)	ACCESS CONTROL	HDWR SET	NOTES
Α	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT				20	-	20.0	
В	1	3' - 0"	7' - 0"	D1	WD	S	F1	HM	PT					-	19.0	

HARDWARE SETS

REFER TO SHEET G003 FOR HARDWARE SET DESCRIPTIONS

REMARKS LEGEND

DOOR TYPE - "D1" DOOR TYPE - "D2" DOOR TYPE - "D3" DOOR TYPE - "D4" DOOR TYPE - "D5" - IG-1T AT EXTERIOR DOORS G1-T AT INTERIOR DOORS IG-1T AT EXTERIOR DOORS
 G1-T AT INTERIOR DOORS DOOR TYPES SCALE: 1/4" = 1'-0"

2" SEE SCHEDULE	-2" SEE SCHEDULE 2"	2" SEE SCHEDULE 2" 1' - 6" 2"
HOLLOW METAL FRAME	HOLLOW METAL FRAME	HOLLOW METAL FRAME G1-T
FRAME TYPE - "F1"	*	FRAME TYPE - "F3"

MARK	DESCRIPTION
G-1	1/4" CLEAR GLASS
G-1T	1/4" CLEAR GLASS, TEMPERED
IG-1	1" INSULATING GLASS
IG-1T	1" INSULATING GLASS, TEMPERED

2 FRAME TYPES A600 SCALE: 1/4" = 1'-0"

211BOSS EmbossDesign.com 906 Monmouth Street, (859)431-8612 Newport, KY 41071

EMMA ADKISSON

EMMA ADKISSON, LIC# 2118357 EXPIRATION DATE 12/31/2025

NO. DESCRIPTION

DATE

08/09/24

08/29/24

09/06/24

PERMIT SET ADDENDUM 1 ADDENDUM 2

OPENING SCHEDULES, TYPES, AND DETAILS

23-056

A600

WINDOW TYPE COMMENTS

BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS

BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS BASIS OF DESIGN: QUAKER V250 SERIES DOUBLE-HUNG VINYL WINDOW WITH INSULATING LOW-E GLASS

BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS

BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS

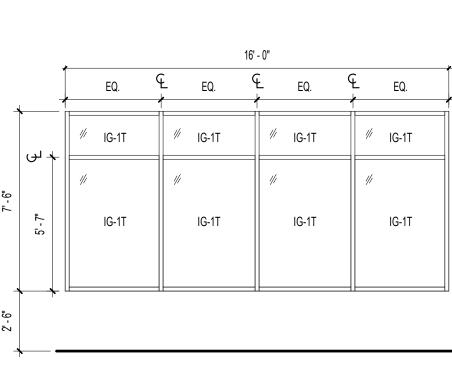
W9 BASIS OF DESIGN: QUAKER V250 SERIES FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS W10 BASIS OF DESIGN: QUAKER V250 SERIES DOUBLE-HUNG VINYL WINDOW WITH INSULATING LOW-E GLASS

WINDOW TYPES

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

A601

9' - 8" EQ. DOOR OPENING: SEE SCHEDULE EQ IG-1T



FRAMING MEMBERS UNO:

2"X 4 1/2" THERMALLY BROKEN ALUM.

STOREFRONT FRAME

	4	6' -	0"
		EQ	È EQ
	_ لب	// IG-1T	// IG-1T
		//	//
10'-0"	8-1"	IG-1T	IG-1T
٠			
		Ś	3
		EDAMINIO ME	MDEDC LINO.

-	3' - 8"	3' - 8"
	//	"
11'-4"	IG-1T	IG-1T
ــــــــــــــــــــــــــــــــــــــ		
2'-8"	IG-1T	IG-1T

7' - 4"

FRAMING MEMBERS UNO: 2"X 4 1/2" THERMALLY BROKEN ALUM. STOREFRONT FRAME

FRAMING MEMBERS UNO: 2"X 4 1/2" THERMALLY BROKEN ALUM. STOREFRONT FRAME

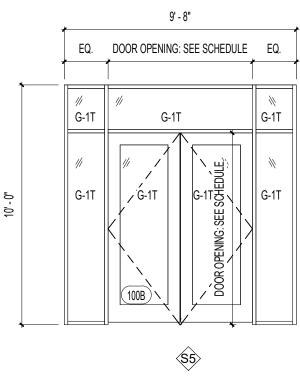
EXTERIOR STOREFRONT TYPES

A601 SCALE: 1/4" = 1'-0"

FRAMING MEMBERS UNO:

2"X 4 1/2" THERMALLY BROKEN ALUM.

STOREFRONT FRAME



FRAMING MEMBERS UNO: 1 3/4" x 4 1/2" ALUM. STOREFRONT FRAME

INTERIOR STOREFRONT TYPES

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

GLASS TYPE LEGEND 1/4" CLEAR GLASS G-1T 1/4" CLEAR GLASS, TEMPERED 1G-1 1" INSULATING GLASS

IG-1T 1" INSULATING GLASS, TEMPERED

211E055

EmbossDesign.com 906 Monmouth Street, (859)431-8612 Newport, KY 41071



EMMA ADKISSON, LIC# 2118357 EXPIRATION DATE 12/31/2025

i**ter** Ohio,

NO. DESCRIPTION

08/09/24 PERMIT SET 09/06/24 ADDENDUM 2

DATE

OPENING SCHEDULES, TYPES, AND DETAILS

23-056

A601

9/6/2024 1:48:42 PM

PLUMBING SPECIFICATIONS

- PLUMBING GENERAL REQUIREMENTS A. THE INTENT OF THIS DOCUMENT IS TO ASSIST THE PLUMBING CONTRACTOR OR DESIGN-BUILD CONTRACTOR DESIGN PARTNER IN PROVIDING A PRICE FOR THIS WORK
- B. THE PLUMBING CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE PLUMBING CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING
- C. THE PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL PLUMBING SYSTEMS.
- D. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES.
- E. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY.
- F. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A
- G. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- H. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR
- I. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.
- J. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR
- ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL. K. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
- L. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK PRIOR TO BID. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE. PLUMBING CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS.
- M. WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
- N. DRAWINGS ARE DIAGRAMMATIC ONLY INTENDING TO SHOW GENERAL RUNS AND LOCATIONS OF EQUIPMENT, FIXTURES, PIPING AND NOT NECESSARILY SHOWING ALL OFFSETS, DETAILS, ACCESSORIES AND EQUIPMENT TO BE
- O. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
- P. NO PIPING SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT. Q. ANY PLUMBING SYSTEMS SERVING OTHER AREAS OF THE BUILDING MUST REMAIN UNDISTURBED/ OPERATIONAL. IF THE PLUMBING CONTRACTOR IDENTIFIES ANY INSTANCES WHERE THIS WILL NOT BE ACHIEVABLE, THEY MUST REPORT THIS TO THE GENERAL CONTRACTOR PRIOR TO TOUCHING
- R. CONTRACTOR TO SUBMIT DRAWINGS TO OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT. EBS WILL REVIEW DRAWINGS FOR GENERAL CONFORMANCE WITH CRITERIA DOCUMENTS. EBS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY PORTION OF THE DESIGN OR CONSTRUCTION OF THIS FACILITY.
- S. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

CONTRACTOR COORDINATION

A. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE PLUMBING CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.

3. PLENUMS

- A. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS WHERE CEILINGS AND/OR MECHANICAL ROOMS ARE BEING USED AS PLENUMS.
- B. WHERE CEILINGS OR ROOMS ARE BEING USED AS PLENUMS, ALL PIPING MATERIALS, DRAIN BODIES, AND DRAIN PANS WITHIN THE PLENUM/ROOM SHALL BE PLENUM-RATED. NO PVC PIPING OR OTHER PVC COMPONENTS SHALL BE INSTALLED WITHING THE CEILING/ROOM UNLESS THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT THE PIPING.
- C. WHERE MECHANICAL ROOMS ARE USED AS A PLENUM OR CEILINGS CAVITIES BELOW LOCATIONS WHERE DRAINS ARE INSTALLED, DRAIN BODIES SHALL BE CAST IRON AND STRAINERS SHALL BE PLENUM-RATED.
- D. DRAIN PANS INSTALLED IN ROOMS BEING USED AS A PLENUM SHALL BE ALUMINUM.
- PLENUM, ALL COMPONENTS SHALL BE PLENUM-RATED. WATER HEATER PRESSURE RELIEF PIPING SHALL BE COPPER. **ESCUTCHEON PLATES**

E. WHERE WATER HEATERS ARE INSTALLED IN ROOMS BEING USED AS A

- A. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.
- 5. ACCESS PANELS A. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE

ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT. FIRE STOPPING

- A. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL
- B. THE FIRE STOPPING MATERIAL MUST MEET THE INTEGRITY OF THE FIRE RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.

RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.

- 7. FLASHING & COUNTERFLASHING
- A. PROVIDE ROOF FLASHING AND COUNTERFLASHING FOR ALL ROOF
- B. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR VOIDED.

8. CATHODIC PROTECTION

- A. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.
- 9. EXCAVATION, TRENCHING & BACKFILL
- A. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF PLUMBING WORK.
- B. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND MUST MATCH SURROUNDING CONDITIONS.
- C. ALL PIPING SHALL BE LAID ON A BED OF SAND, 6" THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN

10. EQUIPMENT CONNECTIONS

A. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF **DISSIMILAR METALS.**

11. PIPING INSTALLATION

A. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

A. ALL PLUMBING WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE. AFTER TESTING IS COMPLETE & APPROVED, THE PLUMBING CONTRACTOR MUST DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO OWNER FOR REVIEW AND APPROVAL.

13. SHOP DRAWINGS

- A. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- B. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL **EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE** PLUMBING CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.
- C. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE PLUMBING CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
- 14. OWNER'S INSTRUCTIONS
- A. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER.
- A. THE PLUMBING CONTRACTOR MUST UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER AND THE PLUMBING CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO
- B. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.
- 16. EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING
- A. PROVIDE EXPANSION COMPENSATION ON ALL PIPING PER PIPING MANUFACTURER'S RECOMMENDATIONS. ACCOUNT FOR PIPE MATERIAL, PIPE SIZE, PIPE LENGTHS, TEMPERATURE OF FLUIDS, AND ALL OTHER VARIABLES PERTAINING TO THE INSTALLATION.
- B. INSTALL PIPING TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE. WHERE NECESSARY, PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT.
- C. EXPANSION JOINT FITTINGS SHALL BE USED ONLY WHERE NECESSARY TO PROVIDE EXPANSION AND CONTRACTION OF THE PIPES. EXPANSION JOINT FITTINGS SHALL BE OF THE TYPICAL MATERIAL SUITABLE FOR USE WITH THE TYPE OF PIPING IN WHICH SUCH FITTINGS ARE INSTALLED.
- D. IN LIEU OF PROVIDING EXPANSION JOINTS, PIPING OFFSETS SHALL BE PERMITTED WHEN INSTALLED PER THE PIPING MANUFACTURER'S
- E. INSTALL FLEXIBLE PIPE CONNECTORS ON PIPES CONNECTED TO VIBRATION ISOLATED EQUIPMENT. PROVIDE LINE SIZE FLEXIBLE CONNECTORS. F. ANCHOR PIPE TO BUILDING STRUCTURE WHERE INDICATED. PROVIDE PIPE GUIDES SO MOVEMENT IS DIRECTED ALONG AXIS OF PIPE ONLY. ERECT PIPING SUCH THAT STRAIN AND WEIGHT IS NOT ON CAST CONNECTIONS OR APPARATUS.
- G. PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, PIPE OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
- H. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 17. SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING A. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSOM-BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF
- B. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL
- C. FOR PIPES PENETRATING THROUGH BELOW-GRADE EXTERIOR WALLS, PROVIDE WATERTIGHT SPACE WITH LINK RUBBER OR MODULAR SEAL BETWEEN SLEEVE AND PIPE ON BOTH ENDS.

18. GENERAL-DUTY VALVES FOR PLUMBING PIPING

- A. VALVES FOR DOMESTIC WATER MUST MEET THE REQUIREMENTS OF THE LEAD-FREE LAW S.3874. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LEAD-FREE PRODUCTS AS MANDATED BY THE LAW AND AS REQUIRED/INTERPRETED BY THE AUTHORITY HAVING JURISDICTION.
- B. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER.
- C. GENERAL DUTY VALVES PROVIDE TWO-PIECE, FULL PORT, SILICON BRONZE BALL VALVES WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES (FOR INSULATED PIPING). VALVES SHALL BE NIBCO MODEL T/S/PC-595-Y-66-LF (-NS) OR EQUAL PRODUCT MANUFACTURED BY AMERICAN VALVE CO, CRANE, HAMMOND, MILWAUKEE, RED-WHITE VALVE CORPORATION, OR WATTS.
- D. DOMESTIC WATER BALANCING VALVES BALANCING VALVES SHALL BE EQUAL TO CIRCUITSOLVER, THERMOSTATIC, SELF-ACTUATING BALANCING VALVES WITH UNIONS, STRAINER, CHECK VALVE, THERMOMETER, AND TWO INTEGRATED BALL VALVES.
- E. THERMOSTATIC MIXING VALVES FOR PUBLIC HAND-WASHING FACILITIES -TEMPERED WATER SHALL BE DELIVERED FROM PUBLIC HAND-WASHING FACILITIES (LAVATORIES AND SINKS) THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070. SET OUTLET TEMPERATURE OF THERMOSTATIC MIXING VALVE TO 110 DEGREES F. POINT-OF-USE THERMOSTATIC MIXING VALVES SHALL BE EQUAL TO WATTS SERIES USG-B. ROUTE TEMPERED WATER TO HOT WATER SIDE OF SINK/LAVATORY. ACCEPTABLE MANUFACTURERS INCLUDE SYMMONS, LAWLER, LEONARD, POWERS, BRADLEY, AND WATTS.
- F. PLUMBING CONTRACTOR MUST PROVIDE VALVES AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH ISOLATED FIXTURE OR GROUP OF FIXTURES, AND EACH CONNECTION TO EQUIPMENT

- G. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.
- I. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT
- 19. HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT A. THE PLUMBING CONTRACTOR MUST FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. WHERE ALTERNATIVE PIPING MATERIALS ARE USED, HANGER

H. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING

B. SUPPORT FOR PIPING INSTALLED ON THE ROOF - ALL PIPING ON ROOF TO BE SUPPORTED WITH RUBBER, UV-RESISTANT SUPPORT BLOCKS EQUAL TO

SPACING CAN BE REDUCED AS RECOMMENDED BY THE MANUFACTURER

- 20. <u>DOMESTIC WATER PIPING GENERAL REQUIREMENTS</u>
- A. INSTALL WATER PRESSURE REGULATORS WHERE NECESSARY TO LIMIT THE INCOMING WATER PRESSURE TO 80 PSI INSIDE THE BUILDING.

21. INTERIOR DOMESTIC WATER PIPING

A. CPVC PIPING

AND WHERE ALLOWED BY CODE.

1) CPVC PIPING 2" AND SMALLER SHALL BE EQUAL TO FLOW GUARD GOLD - THIS SPECIFICATION COVERS COPPER TUBE SIZE (CTS) CPVC MANUFACTURED TO STANDARD DIMENSIONAL RATIO (SDR) 11 FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION. THIS SYSTEM IS INTENDED FOR PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 180°F AT 100 PSI. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID CPVC (CHLORINATED POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 24448 AS IDENTIFIED IN ASTM D 1784. CTS CPVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2846. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 14 AND 61. INSTALLATION SHALL COMPLY WITH LATEST INSTALLATION PROVIDED BY THE MANUFACTURER AND SHALL CONFORM TO ALL LOCAL PLUMBING, BUILDING AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1668. SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F 493. YELLOW ONE-STEP CEMENT MAY BE USED WITHOUT PRIMER. IF A PRIMER IS REQUIRED BY LOCAL PLUMBING OR BUILDING CODES, THEN A PRIMER CONFORMING TO ASTM F 656 SHOULD BE USED. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH CPVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION. NEVER TEST WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN CPVC PIPE OR FITTINGS.

1) PEXTUBING SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR AQUAPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM F876 "STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE, ASTM F877 "STANDARD FOR CROSSLINKED POLYETHYLENE PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS". PROVIDE ENGINEERED PLASTIC FITTINGS WITH PLASTIC COLLARS WHICH CONFORM TO ASTM F1960 STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE PIPING. PEX TUBING AND CONNECTIONS SHALL BE WARRANTED FOR A PERIOD OF 25 YEARS. DO NOT WELD, GLUE, TAPE OR ALLOW OTHER SOLVENT BASED ADHESIVES OR PAINTS TO COME INTO CONTACT WITH TUBING. DO NOT ALLOW TUBING TO COME IN CONTACT WITH PIPE THREAD COMPOUNDS, FIREWALL PENETRATION SEALING COMPOUNDS, AND PETROLEUM BASED SEALANTS. DO NOT ALLOW TUBING TO COME WITHIN 6" OF GAS APPLIANCE VENTS OR 12" OF RECESSED LIGHT FIXTURES. DO NOT EXPOSE TUBING TO OPEN FLAME. DO NOT SOLDER WITHIN 18" OF TUBING, DO NOT INSTALL TUBING BETWEEN TUB SPOUT AND SHOWER VALVE. RADIUS OF BENDS MUST NOT EXCEED SIX TIMES OUTSIDE TUBE DIAMETER. REPAIR KINKS IN TUBING USING HEAT AS RECOMMENDED BY MANUFACTURER. TUBING SHALL BE INSTALLED IN MAXIMUM PRACTICAL LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM FITTINGS. TUBING SHALL BE SUPPORTED IN A MATTER THAT DOES NOT DAMAGE TUBING AND ALLOWS FOR THERMAL **EXPANSION. SUPPORTS SHALL BE SPACED AT 32" MINIMUM** HORIZONTALLY AND 60" VERTICALLY AND WITHIN 6" OF FITTINGS OR BENDS, USE BEND SUPPORTS AT 90 DEGREE BENDS, PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL PLATES WHERE TUBING PENETRATES STUDS AT FACE OF STUDS. REMOTE MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE). UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR CONNECTION OF TUBING TO FITTINGS. DO NOT OVER EXPAND TUBING. PIPE SHALL BE SUPPORTED AT FITTINGS AND FIXTURES AS RECOMMENDED BY MANUFACTURER. PIPING SHALL BE INSTALLED WITH MINIMUM AMOUNT OF FITTINGS. USE MANUFACTURER APPROVED VALVES, FITTINGS, HOSE BIBS AND BOXES AT FIXTURES.

22. INTERIOR SANITARY AND VENT PIPING

- A. WHERE PIPING IS NOT INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.
- B. WHERE PIPING IS INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE NO-HUB, CAST-IRON PIPE WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP, AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, **DEFLECTION AND UNRESTRAINED THRUST TESTS).**
- 1) ABOVEGROUND SANITARY, WASTE, AND VENT PIPING WITHIN MECHANICAL CLOSETS (PLENUMS) TO BE NO-HUB, CAST-IRON PIPE CONFORMING TO ASTM A74, ASTM A888, AND CISPI 301, WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP, AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST
- C. WHERE THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT PVC PIPING INSTALLED IN PLENUMS, IT SHALL BE APPROVED.

23. INTERIOR STORM PIPING

A. WHERE PIPING IS NOT INSTALLED IN A PLENUM, STORM PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.STORM PIPING WITHIN BUILDINGS SHALL BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND **VENT PATTERNS.**

- B. WHERE PIPING IS INSTALLED IN A PLENUM, STORM PIPING WITHIN BUILDING TO BE NO-HUB. CAST-IRON PIPE WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP, AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED
- C. WHERE THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT PVC PIPING INSTALLED IN PLENUMS, IT SHALL BE APPROVED.
- D. ABOVEGROUND STORM WITHIN MECHANICAL CLOSETS (PLENUMS) TO BE NO-HUB, CAST-IRON PIPE CONFORMING TO ASTM A74, ASTM A888, AND CISPI 301, WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP, AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310. ASTM C1277. ASTM C564. AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST TESTS).

24. NATURAL GAS PIPING GENERAL REQUIREMENTS

- A. PROVIDE GAS REGULATORS AT GAS-FIRED EQUIPMENT TO REDUCE PRESSURE TO THE PRESSURE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- B. PROVIDE GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT. PIPING SHALL BE INSTALLED FULL-SIZE TO EACH UNIT'S GAS INLET CONNECTION BURNER, REGULATOR, ETC. PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS. CONNECTIONS TO EACH GAS-FIRED EQUIPMENT ITEM MUST INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH **EQUIPMENT MANUFACTURER'S INSTRUCTION. FOR CONNECTIONS TO** GAS-FIRED ROOFTOP EQUIPMENT, INCLUDE THE ROOF PENETRATION AND INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE MECHANICAL CONTRACTOR.
- C. PAINT ALL EXTERIOR METAL PIPING, VALVES, SERVICE REGULATORS, SERVICE METERS AND METER BARS, AND ASSOCIATED PIPING SPECIALTIES WITH A RUST-INHIBITIVE PRIMER AND EXTERIOR-GRADE PAINT. COORDINATE COLOR WITH ARCHITECT.

- 25. GAS SERVICE PIPING A. NEW SERVICE DELIVERY PRESSURE SHALL BE 2 PSI.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.
- C. ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPING APPROVED BY THE LOCAL UTILITY COMPANY.

26. <u>INTERIOR ABOVE-GROUND GAS PIPING</u>

A. SCHEDULE 40 STEEL PIPE, ASTM A53.

- 1) PIPING 2" AND UNDER SHALL BE JOINED BY EITHER THREADED FITTINGS OR COLD PRESS MECHANICAL JOINT FITTINGS WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION. 2-1/2", 3", AND 4" PIPING CAN BE THREADED OR WELDED. PIPING LARGER THAN 4" SHALL BE WELDED.
- 2) MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150,
- STANDARD PATTERN. 3) WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, COLD PRESS MECHANICAL JOINT FITTINGS ARE ACCEPTABLE AND SHALL CONFORM TO MATERIAL REQUIREMENTS OF ASTM A420 OR ASME B16.3 AND PERFORMANCE CRITERIA ANSI LC-4/CSA 6.32. COLD PRESS MECHANICAL JOINT FITTINGS SHALL BE EQUAL TO VIEGA MEGAPRESS G, WITH HNBR SEALING ELEMENTS FOR PRESS FITTINGS. SEALING ELEMENTS SHALL BE FACTORY INSTALLED OR AN ALTERNATIVE SUPPLIED BY FITTING MANUFACTURER. PRESS ENDS SHALL BE DESIGNED TO ASSURE LEAKAGE OF LIQUIDS AND/OR GASES FROM INSIDE THE SYSTEM PAST THE SEALING ELEMENT OF AN UN-PRESSED CONNECTION. THE FUNCTION OF THIS FEATURE IS TO PROVIDE THE INSTALLER QUICK AND EASY IDENTIFICATION OF CONNECTIONS WHICH HAVE NOT BEEN PRESSED PRIOR TO PUTTING THE SYSTEM INTO
- 4) WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT

WELDING AND SOCKET WELDING.

- 27. DRAIN PANS A. PROVIDE DRAIN PAN UNDER WATER HEATERS. PIPE WATER HEATER DRAIN AND PRESSURE RELIEF VALVE SEPARATELY AND INDIRECTLY TO FLOOR DRAIN (NOT TO DRAIN PAN).
- B. DRAIN PANS SHALL BE PROVIDED UNDER WASHERS AND SHALL BE SIZED TO ACCOMMODATE A STANDARD WASHER OR STACKABLE WASHER/DRYER AS APPLICABLE. BASIS OF DESIGN SHALL BE DRIPTITE 30-5/8" WIDE X 34-5/8" DEEP TRANSLUCENT PAN. DRILL 3/4" OUTLET IN VERTICAL SIDEWALL FOR SIDE-OUTLET OR IN BOTTOM OF PAN DIRECTLY OVER DRAIN IF DRAIN IS UNDER THE PAN. DRAIN CONNECTION SHALL BE MADE WITH MANUFACTURER PROVIDED DRAIN OUTLET CONNECTION. PANS ARE AVAILABLE IN CUSTOM SIZES IF NECESSARY (COORDINATE SIZES AND LOCATIONS OF THE PAN WITH ROOM DIMENSIONS AND EQUIPMENT SIZES AS

PROVIDED BY THE ARCHITECT/OWNER).

- 28. BACKFLOW PREVENTERS A. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE
- ENTRANCE. B. BACKFLOW PREVENTERS FOR 2" AND SMALLER WATER SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON THE WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER TO BE EQUAL TO WATTS SERIES LF919QT. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.

29. WALL HYDRANTS

A. WALL HYDRANTS TO BE EQUAL TO 3/4" WOODFORD MODEL B-67, WITH CHROME FINISH ON BRASS CASTING, WITH BOX AND HINGED DOOR, AND LOOSE-TEE KEY. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM, SMITH, OR WATTS.

30. WATER HAMMER ARRESTORS

- A. REMOVE SHOCK CONDITIONS FROM ALL PIPING. PROVIDE AND INSTALL WATER HAMMER ARRESTORS/SHOCK ABSORBERS ON ALL PIPING SERVING FLUSH VALVE FIXTURES, CLOTHES WASHER SUPPLY BOXES, COMMERCIAL WASHER SUPPLY LINES, AND OTHER EQUIPMENT WITH QUICK-CLOSING VALVES. WATER HAMMER ARRESTORS SHALL BE PROVIDED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH 201.
- A. PROVIDE FLOOR DRAINS IN ALL TOILET ROOMS THAT HAVE MORE THAN ONE
- WATER CLOSET OR URINAL. B. PROVIDE FLOOR DRAINS FOR ALL EQUIPMENT PRODUCING CONDENSATE
- AND THAT HAVE DRAIN CONNECTIONS. C. FLOOR DRAINS IN FINISHED AREAS TO BE PVC BODY, DOUBLE DRAINAGE

32. TRAP SEAL PROTECTION

A. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS BELOW, AS APPROVED BY THE LOCAL PLUMBING AUTHORITY

FLANGE, WEEP HOLES, WITH 6" DIAMETER NICKEL BRONZE STRAINER.

HAVING JURISDICTION: 1) BARRIER-TYPE TRAP SEAL PROTECTION DEVICE - A BARRIER-TYPE TRAP SEAL PROTECTION DEVICE MUST PROTECT THE TRAP SEAL FROM **EVAPORATION. BARRIER-TYPE TRAP SEAL PROTECTION DEVICES MUST** CONFORM TO ASSE 1072. THE DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- A. PROVIDE NEW PRIMARY AND SECONDARY ROOF DRAINS AND ASSOCIATED PRIMARY AND SECONDARY STORM PIPING SYSTEMS WHERE INTERIOR DRAINS ARE SHOWN ON ARCHITECTURAL ROOF PLAN. SECONDARY ROOF DRAINS SHALL BE PIPED INDEPENDENTLY FROM THE PRIMARY SYSTEM AND MUST DISCHARGE THROUGH DOWNSPOUT NOZZLES LOCATED IN THE EXTERIOR WALL AT GRADE.
- B. ROOF DRAINS SHALL HAVE PVC BODY AND PVC DOME.
- 34. DOWNSPOUT NOZZLES FOR SECONDARY ROOF DRAINAGE A. DOWNSPOUT NOZZLES FOR SECONDARY DRAINAGE DISCHARGING TO GRADE MUST HAVE NICKEL-BRONZE BODY AND REMOVABLE STAINLESS-STEEL SCREEN EQUAL TO ZURN Z199-SS.

A. PROVIDE FLOOR AND WALL CLEANOUTS WHERE REQUIRED IN ALL SOIL, WASTE, DRAIN AND STORM PIPING. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

36. ELEVATOR PIT SUMP PUMP

A. ELEVATOR PUMP SYSTEM TO BE EQUAL TO TOPP INDUSTRIES #B22ELE, 18" X 22" BASIN WITH PERFORATED STEEL COVER, AND ZOELLER 98 PUMP, ½ HP, 115 VOLT WITH 1½" DISCHARGE, FLOAT VALVE, AND CHECK VALVE. AVAILABLE MANUFACTURERS INCLUDE ZOELLER, WEIL PUMPS, LIBERTY PUMPS, ARMSTRONG, DAYTON, BARNES, OR GORMAN RUPP CO.

37. EXPANSION TANKS

- A. WHERE A BACKFLOW PREVENTER IS PROVIDED UPSTREAM OF THE WATER HEATER, PROVIDE EXPANSION TANK FOR THE HEATING SYSTEM. SIZE ACCORDING TO THE SYSTEM VOLUME, PRESSURES, TEMPERATURES, AND RECOMMENDATIONS OF WATER HEATER MANUFACTURER.
- 38. <u>DOMESTIC HOT WATER RETURN PUMP</u> A. PROVIDE HOT WATER RETURN PUMP EQUAL TO BELL AND GOSSETT SERIES
 - 100 OR EQUAL PUMP MANUFACTURED BY ARMSTRONG, GRUNDFOS, OR

39. PLUMBING FIXTURE GENERAL REQUIREMENTS

B. ALL WALL-HUNG PLUMBING FIXTURES, INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, URINALS, LAVATORIES, AND SINKS SHALL BE ANCHORED TO THE FLOOR WITH CONCEALED IN-WALL CARRIERS. WALL-HUNG FIXTURES

A. SHUT OFF VALVES/STOPS SHALL BE PROVIDED AT ALL LAVATORIES, SINKS

C. COORDINATE COLOR OF FIXTURES WITH ARCHITECT. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.

SHALL NOT BE SIMPLY BOLTED TO THE WALL OR ANCHORED TO WOOD

- D. PROVIDE ADA COMPLIANT FIXTURES WHERE INDICATED ON THE ARCHITECTURAL PLANS. PROVIDE OFFSET FIXTURE TAILPIECES AND TRAPS
- WHERE REQUIRED TO MEET ADA LEG CLEARANCES. E. FIXTURES SHALL BE SECURELY FASTENED TO PREVENT ANY MOVEMENT OF FIXTURE DURING NORMAL USE. SEAL TO WALL, FLOOR OR COUNTERTOP

WITH SILICONIZED ACRYLIC-LATEX CAULK. 40. WATER SUPPLY BOXES

FIRE-RATED WALLS.

- A. PROVIDE WATER SUPPLY BOXES FOR REFRIGERATOR ICE MAKERS. B. WATER SUPPLY BOXES SHALL BE FIRE-RATED WHERE INSTALLED IN
- 41. <u>CLOTHES WASHER SUPPLY AND DRAIN BOXES</u> A. CLOTHES WASHER SUPPLY AND DRAIN BOXES SHALL BE FIRE-RATED WHERE INSTALLED IN FIRE-RATED WALLS.

B. PROVIDE BRAIDED STEEL HOSES FOR HOT AND COLD WATER SUPPLIES TO

ALL CLOTHES WASHERS WHERE NOT PROVIDED WITH THE APPLIANCE.

Dearborn.

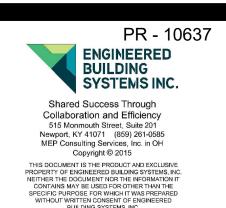
- A. Provide thermal insulation on all metallic domestic cold water, domestic hot water, domestic hot water return, cast iron horizontal storm piping, roof drain sumps piping with self-sealing closed cell elastomeric foam. Provide a continuous vapor tight seal. Insulation shall be continuous thru all walls and floors. NFPA fire hazard rating for insulation, adhesives, sealers, and coatings must not exceed 25 for flame spread and 50 for smoke developed, unless otherwise required by the local authority or energy codes. The minimum insulation levels shall be as
- i. Provide ½" thick elastomeric insulation on domestic cold water piping that
- is required to be insulated. ii. Provide 1" thick elastomeric insulation on hot and hot water return piping. iii. Provide 1" thick elastomeric insulation on horizontal storm piping and roof drain sumps.
- iv. Provide 1/2" thick elastomeric insulation on horizontal sanitary drain piping installed above ceilings that receive condensate. B. Provide insulation on all PEX piping when used in plenums and where required to maintain the required flame and smoke ratings. Most PEX piping 3/4" and smaller
- shall be insulated to maintain its plenum rated property if 18" separation between the piping cannot be provided. Insulation for Handicap Accessible Fixtures (where not protected with a shroud) A. All handicap lavatory p-trap and angle stop assemblies shall be insulated with trap wrap protective kit manufactured by Proflo model PF200 series or equal. Provide offset traps for handicap accessible fixtures where required. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps, the insulation must have a cleanout nut cap to allow service to the trap without disassembly. For stops, the insulation must have a lock lid that prevents tampering but allows

access without removal of the insulation. Fasteners must remain substantially out

of sight. Acceptable manufacturers include Proflo, Truebro, Plumberex, and



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ADDENDUM 2

DATE

08.09.24

09/06/24

PLUMBING DETAILS

7/11/2024 4:59:36 AM

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ADDENDUM 1

ADDENDUM 2

08/09/24

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EXAMPLES: <u>ABBREVIATIONS</u> HP Heat Pump Number HZ Hertz Ω Ohm IG Isolated Ground IMC Intermediate Metal Conduit KCMIL Thousand Circular Mils SWITCH GROUP Amperes KVA Kilovolt-Amperes Alternating Current FUNCTION A/C Air Conditioning LFMC Liquid Tight Metal Conduit AFCI Arc Fault Current Interrupter LTG Lighitng LRA Locked Rotor Amperes AHU Air Handling Unit AIC Ampere Interrupting Capacity MC Metal Clad Cable - FIXTURE TYPE MCB Main Circuit Breaker AL Aluminum (SEE SCHEDULE) ATS Automatic Transfer Switch MCC Motor Control Center ATC Automatic Temperature Control MLO Main Lug Only SWITCH AWG American Wire Gauge NC Normally Closed Conduit NEC National Electrical Code NEMA National Electrical Manufactures Association CATV Cable Television CB Critical Branch NFPA National Fire Protection Association C/B Circuit Breaker NL Night Lighting (Egress Illumination) PANEL-CIRCUIT CKT Circuit NO Normally Open NTS Not To Scale CCTV Closed Circuit Television Current Transformer P Pole PB Push Button or Panic Button or Pull Box WEATHER PROOF PANEL NAME AND Direct Current PNL Panel CIRCUIT NUMBER PWR Power QTY Quantity Electrical Contractor REQ Required Exhaust Fan **ELEV** Elevator RMC Rigid Metal Conduit GROUND FAULT PROTÉCTED ISÒLATED GROUND RNC Rigid Non-Metallic Conduit EM Emergency RTU Roof Top Unit EMT Electrical Metallic Tubino ST Shunt Trip **EPO** Emergency Power Off **EWC** Electric Water Cooler SW Switch **EWH** Electric Water Heater **TSTAT Thermostat**

TYP Typical

UG Underground

VA Volt-Amperes

W Watt or Wire

XFMR Transformer

WP Weather Proof

UL Underwriters Labratory

UNO Unless Noted Otherwise

FA Fire Alarm

GF Gas Furnace

FAA Fire Alarm Annuciator

FMC Flexible Metal Conduit

GFCI Ground Fault Current Interrupter

HVAC Heating, Ventilation, Air Conditioning

HOA Hand-Off-Automatic Switch

FLA Full Load Amperes

GWH Gas Water Heater

- COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT. OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION
- [THESE FIRE ALARM DRAWINGS SHOW THE INTENDED DEVICE LOCATIONS COORDINATED WITH ARCHITECT/OWNER, AND DEMONSTRATE COMPLIANCE WITH BUILDING CODES]. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY
- RESPONSIBLE FOR REVIEW AND APPROVAL REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; SCOPE OF WORK.

GENERAL NOTES - ELEVATOR

FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

HEALTH CARE - GENERAL NOTES

PROVIDE HEALTH CARE RATED MC CABLE OR OTHER APPROVED WIRING METHODS PER NEC ART-517. ALL WIRING METHODS MUST BE APPROVED FOR THE LOCATION FOR WHICH THEY ARE INSTALLED.

FIRE ALARM - DELEGATED DESIGN

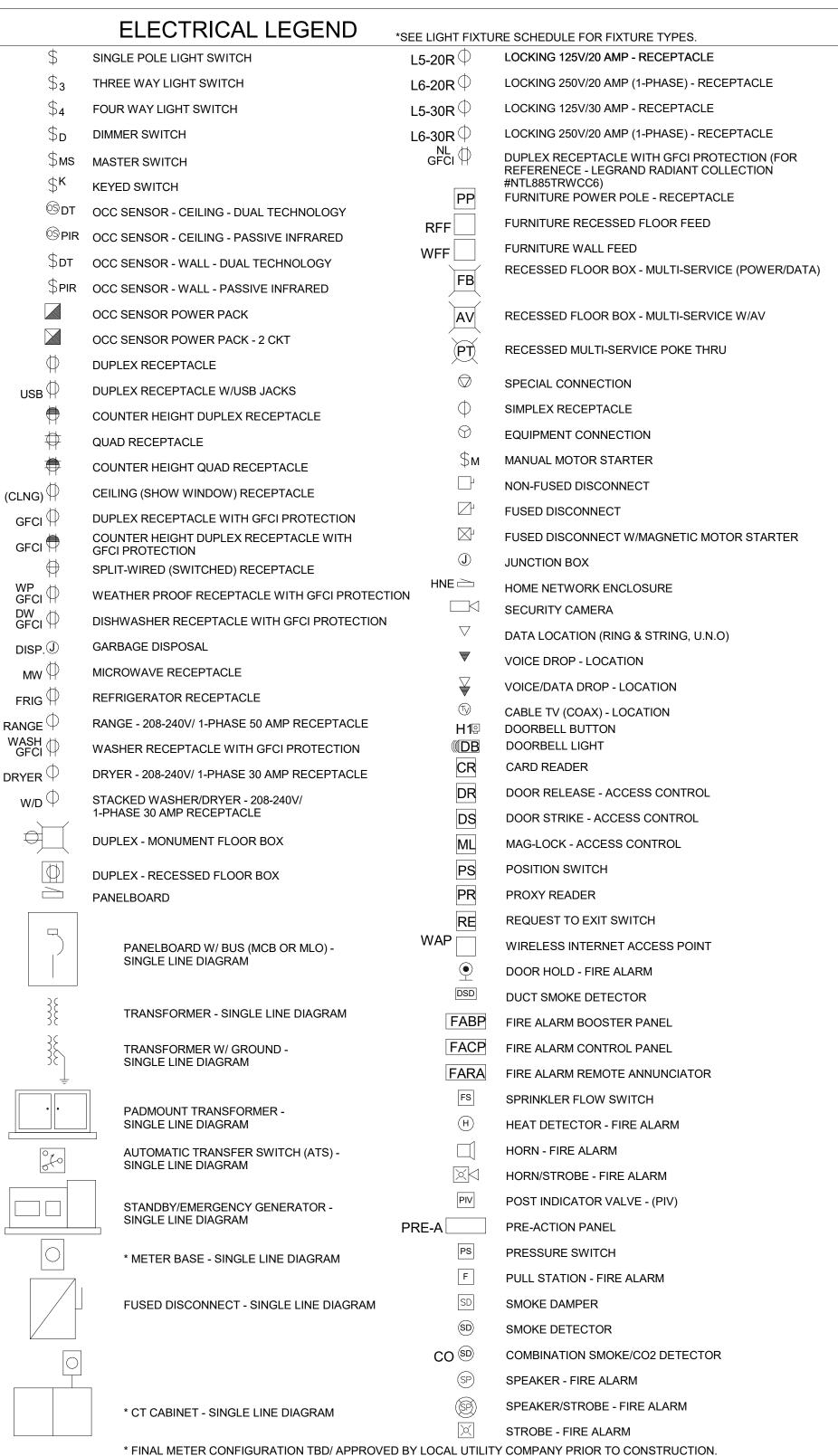
- WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC
- TO PROJECT LOCALITY AND INCLUDE IN SCOPE
- RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS

GENERAL NOTES - LIGHTING

- REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
- B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL
- LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
- WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
- CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.

GENERAL NOTES - GENERATOR

- GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR
- THEIR USE STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.
- PROVIDE ALL AXILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.
- INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE
- COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP. ETC.
- WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.



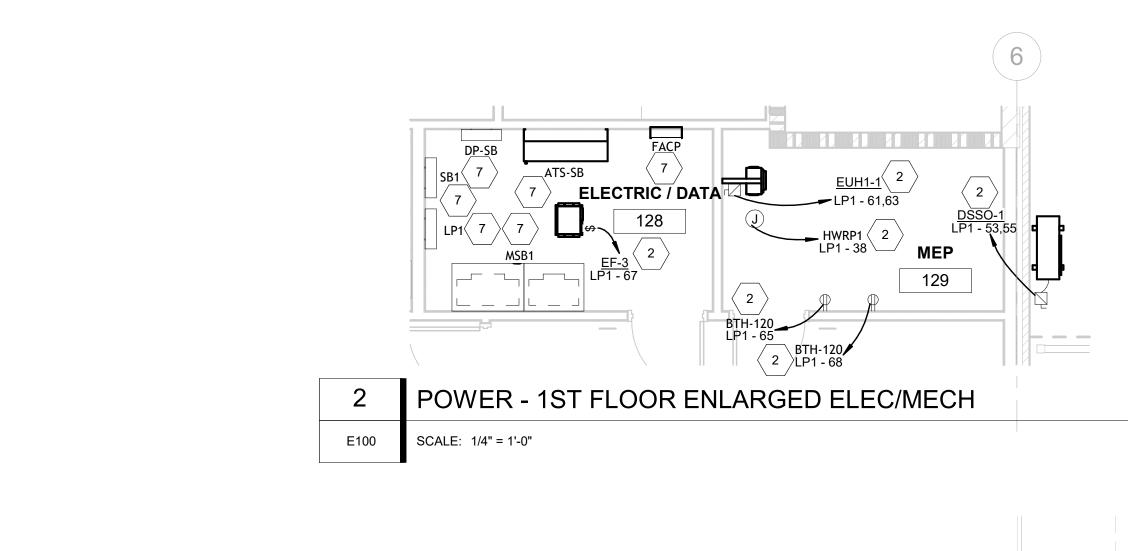
NEW CONSTRUCTION OF A DRUG REHAB AND DETOX FACILTIY. SCOPE TO INCLUDE NEW LIGHTING, POWER, AND ELECTRICAL DISTRIBUTION EQUIPMENT. SEE SINGLE LINE FOR MORE INFORMATION

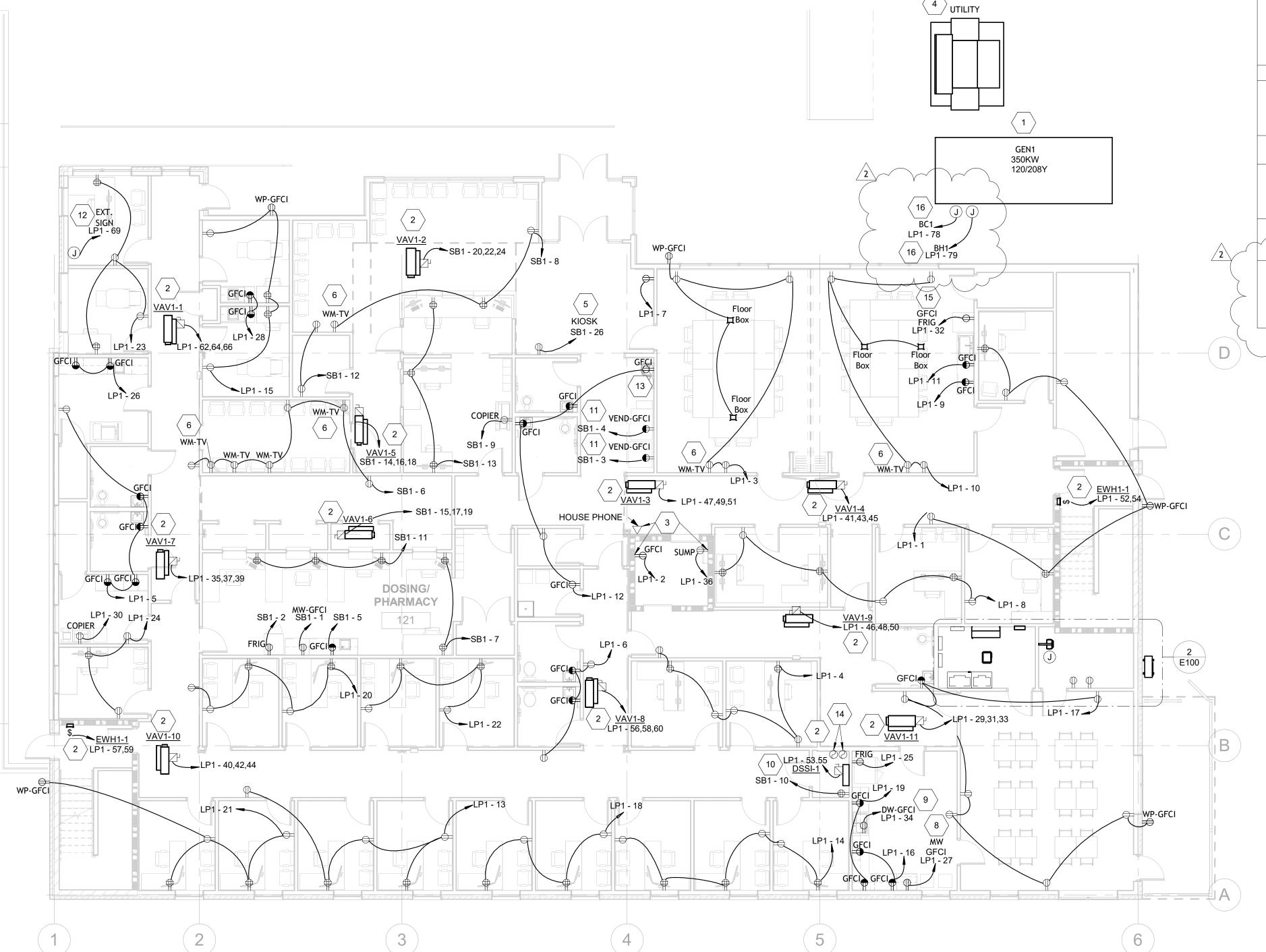
GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE

GENERAL NOTES - POWER

- A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
- SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
- PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED
- ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
- ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE
- ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
- FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT
- REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
- CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
- CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE
- ARCHITECT FOR RESOLUTION. LOW VOLTAGE WIRING SHALL NOT BE PERMITTED TO RUN IN WALLS WITHOUT A RACEWAY. A 3/4" MINIMUM EMT CONDUIT SHALL BE PROVIDED TO STUB UP TO THE NEAREST ACCESSIBLE CEILING.





PROPOSED LOCATION OF NATURAL GAS GENERATOR. ITEMS SHOWN CIRCUITED FROM "SB#" PANELS ARE TO BE BACKED-UP BY GENERATOR. MECHANICAL EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR. WIRING BY THE ELECTRICAL CONTRACTOR, VERIFY LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO **211BOSS** ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS

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TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WARRED WITHOUT WRITTEN CONSENT OF ENGINEERED B SYSTEMS, INC.

FRIDGE IS LOCATED UNDER COUNTER. COORDINATE LOCATION OF DEVICE WITH ARCH ELEVATION PRIOR TO ROUGH IN PROVIDE GFOL BREAKER FOR EQUIPMENT.

KEYED SHEET NOTES

PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND

PROVIDE DEDICATED RECEPTACLE FOR PATIENT KIOSK.

DATA CONSULTANT PRIOR TO CONSTRUCTION.

PROVIDE PROTECTIVE BOLLARDS AROUND UTILITY TRANSFORMER PER

RECEPTACLE SERVES WALL MOUNT TV. COORDINATE MOUNTING HEIGHT AND REQUIRED DATA CABLING WITH OWNER'S REP, ARCHITECT, AND

ELECTRICAL EQUIPMENT LOCATION(S). SEE DETAILS SHEETS FOR MORE

LOCATE MICROWAVE OUTLET IN SHELF, UNDER COUNTERTOP. SEE ARCH

LOCATE GFCI RECEPTACLE SERVING DISHWASHER UNDER SINK IN BASE CABINET, AND PROVIDE 120V-20A UL LISTED 5-20P CORD WHIP (6' MIN.).

REQUIRED UNDERGROUND CONDUITS TO UTILITY POLE AS DETERMINED BY SERVICE PROVIDER. PROVIDE 3/4" X 4' X 4' PLYWOOD BACKBOARD. PROVIDE DEDICATED QUAD RECEPT TO SERVE EQUIPMENT. COORDINATE

PROVIDE DEDICATED POWER ABOVE ACT CEILING TO SERVE INTERNALLY ILLUMINATED EXTERIOR SIGN. CONTROL WITH PHOTOCELL DEVICE AND

COORDINATE ALL WORK WITH OWNER'S REP, AND ARCHITECT PRIOR TO

FOUNTAIN WITH INSTALLING CONTRACTOR PRIOR TO CONSTRUCTION.

PROPOSED LOCATION (2) 4" CONDUIT SLEEVES FOR DATA CABLING TO PASS THROUGH THE CEILING TO THE NEXT FLOOR UP. COORDINATE CORE DRILLING SLEEVES WITH OTHER TRADES, OWNER'S REP, AND

PROPOSED LOCATION OF DATA/PHONE UTILITY DEMARC. PROVIDE

ALL ASSOCIATED WORK WITH OWNER'S REP, ARCHITECT, AND IT

PROVIDE GFCI BREAKER FOR VENDING MACHINE BRANCH CIRCUIT.

COORDINATE LOCATION OF GFCI RECEPTACLE SERVING DRINKING

SEE DETAILS SHEETS FOR MORE INFORMATION.

MANUFACTURER REQUIREMENTS.

ELEVATIONS FOR EXACT LOCATION.

CONSULTANT PRIOR TO CONSTRUCTION.

ARCHITECT PRIOR TO CONSTRUCTION.

DUKE ENERGY REQUIREMENTS.

INFORMATION.

CONSTRUCTION.

PROVIDE BLOCK HEATER AND BATTERY CHARGER CIRCUITS TO SERVE GENERATOR. CIRCUITS ARE TO BE RAN UNDERGROUND FROM 1ST FLOOR ELECTRICAL CLOSET TO GENERATOR LOCATED ON SITE. COORDINATE ALL REQUIRED WORK WITH OWNER'S REP & ARCHITECT PRIOR TO CONSTRUCTION.

NO. DESCRIPTION DATE

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POWER PLAN - 1ST FLOOR

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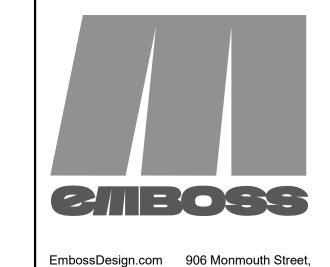
E100

POWER - 1ST FLOOR

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

KEYED SHEET NOTES

- MECHANICAL EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR. WIRING BY THE ELECTRICAL CONTRACTOR. VERIFY LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE DEDICATED CIRCUIT AND DISCONNECTING MEANS IN CEILING SPACE DIRECTLY BELOW AND WITHIN 10' OF THE RADON MITIGATION FAN PROPOSED LOCATION. CLEARLY MARK JUNCTION BOX COVER WITH PANEL/CIRCUIT CALLOUT, AND "RADON REDUCTION SYSTEM" AND INFORM OWNER'S REP WHERE ITS LOCATED PRIOR TO COMPLETION OF CONSTRUCTION. COORDINATE ALL ASSOCIATED WORK WITH OWNER'S REP, ARCHITECT, AND RADON SYSTEM INSTALLING CONTRACTOR PRIOR TO CONSTRUCTION.



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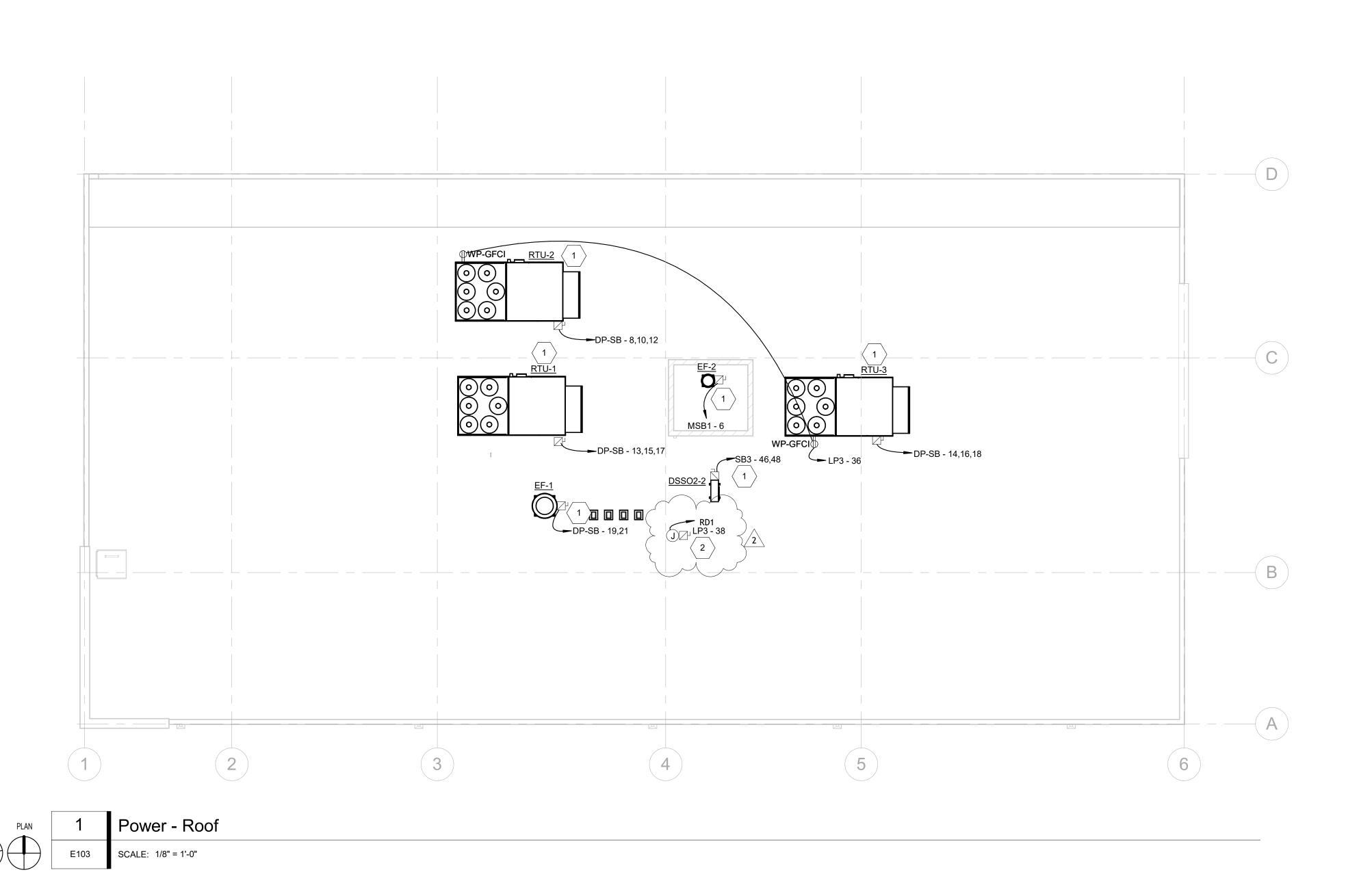
1 ADDENDUM 1

2 ADDENDUM 2

POWER PLAN - ROOF

1063

E103



			Crossroad	ds Lighting Fixture Schedule		
Type Mark	Lam p	Description	Manufacturer	Model	Wattage	Comments
В	LED	2X4 CENTER BASKET INDIRECT LED TROFFER	Cooper Lighting	24CZSCT3-UNV	<varies></varies>	
С	LED	6" RECESSED LED CAN	Spectrum Lighting	SGE6LEDFX30L35KDX/BH27/AR62 23FXSGMFSO AR6223FXSGMFSO	22 W	
CW	LED	6" RECESSED LED CAN - WET LISTED	Spectrum Lighting	SGE6LEDFX30L35KDX/BH27/AR62 23FXSGMFSOW	22 W	
D	LED	SURFACE MOUNT DECORATIVE FIXTURE - SLEEPING ROOMS	Milennium Lighting	4531	25 W	
EM	LED	LED 2-LAMP EMERGENCY LIGHTING UNIT W/ 90MIN. BATT BACKUP	Cooper Lighting	SEL25-SEL50	2 W	
EMX	LED	EXIT EMERGENCY COMBO W/ 90 MIN. BATTERY BACKUP	Securitylighting	APCH7R	4 W	PROVIDE REMOTE CAPIBILITIES AS REQUIRED
ER	LED	DUAL HEAD LED REMOTE FOR EMERG EXTERIOR ILLUNINATION	Compass Products	ARWR2	2	FED FROM ADJACENT EMX-FIXTURE
GL1	LED	GROUND MOUNTED SPOT LIGHT	Acuity Brands Lighting	DSXF1LED P1 40K WFL MVOLT THK DDBXD	21 W (CONTROL VIA PHOTOCELL
PIT	LED	VAPOR TIGHT LIGHT	Cooper Lighting	√ √VT1730 √ √	17 W 🧪	
PL1	LED	POLE MOUNTED AREA LIGHTING; SINGLE HEAD	LSI Industries	MRM-LED-30L-SIL-2-40-70CRI (1 HEAD)	232 W	20' MOUNTING HEIGHT MAX BRONZE. CONTROL VIA PHOTOTCELL
PL2	LED	POLE MOUNTED AREA LIGHTING; DUAL HEAD 180 DEGREES	LSI Industries	MRM-LED-30L-SIL-2-40-70CRI (2-HEADS 180 DEGREES)	464 W	20' MOUNTING HEIGHT MAX BRONZE. CONTROL VIA PHOTOCELL
ROUND POLE	N/A	STEEL ROUND POLE	LSI Industries	5RPU B3 S07G 17 S BRZ DGP		BRONZE FINISH, SEE POLE DETAIL FOR MORE INFO.
S2	LED	WALLMOUNT VANITY FIXTURE	Efficient Lighting	EL328-20LEDAC-BN	18 W	
S4	LED	4' SURFACE MOUNT LED STRIP FIXTURE	Cooper Lighting	4SNLED-LD5-28SL-UNV-L835-CD1- U	37 W	
S4/NL	LED	4' STAIR FIXTURE W/ EM BATTERY BACKUP	Cooper Lighting	4BCLED-LD4-36SL-F-UNV-EL14W-L 835-CD1-U	37 W	
WP1	LED	LED WALLPACK BRONZE FINISH	ELCO LIGHTING	EWP 70 M 40	70 W	
WS1	LED	OUTDOOR CAST SCONCE W/DR3	Acuity Brands	OLCS 8 DDB W/DR3 FROSTED	9 W	

LENS

Lighting

		3	4	3	O
1 PC LP1 - 73 B B B	C C CW	CW C	CW CW CW CW CW C C C NL CW C C CW		WS1
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	Co NL Co C Co C Co B B B B B B B B B B B B B	C NL B B B	Ca CaNL B B B B B B B B B B B B B B B B B B B	B B B B EMX	
S2 S2 S2	MX CANL	B B C C O NI	C EM	EMX EMX 3 C D EMX C C D	C S4/NL EMX EMX ER C
WS1 S4/NL LP1 - 73 EMX	CONL B B B B B B B B B B B B B B B B B B B	B B B B B B B B B B B B B B B B B B B	C C NL EM LP1	LP1 - 71 S2 LP1 - 70 SB1 - 23 B	S4/NL S4 S
ER B S4/NL	DO CO OLP1-70 DO OLP1-	C C D C NL EM B B B B B B B B B B B B B B B B B B	Co Co Co NL P1 - 75 EM LP1	S4 B B B B B B B B B B B B B B B B B B B	B B B B B B B B B B B B B B B B B B B
LP1-70	WP1	WP1	WP1	WP1	A

FROSTED LENS; BROWN

MAGNETIC PLAN 1
E200

THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE CONCONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTURAL CONDITION OF EXISTING EQUIPMENT AND WIRING.

LIGHTING - 1ST FLOOR

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

KEYED SHEET NOTES

ALL EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL DEVICE LOCATED ON WEST SIDE OF BUILDING. COORDINATE FINAL LOCATION WITH OWNER'S REP, AND ARCHITECT PRIOR TO CONSTRUCTION.
 ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS

PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS.

3 2-SIDED EXIT SIGN.



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1 ADDENDUM 1 2 ADDENDUM 2

> LIGHTING PLAN - 1ST FLOOR

> > 10637

E200

POLE POLE 2 ROUND ROUND POLE POLE ROUND POLE 1 PL1 ROUND 8 POLE POLE ---PL2 GL1 MONUMENT SIGN GL1 PAD MOUNT METER BOLLARDS GEN1 THREE STORY BUILDING PROPOSED FFE = 678 GCWW HOTBOX

GENERAL NOTES - SITE

- ALL EQUIPMENT LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
 B. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDE OF A TYPE MEETING THE REQUIREMENTS AND CONDITIONS OF THE USE INTENDED.
- C. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SITE WORK WITH GENERAL CONTRACTOR AND OTHER BUILDING TRADES.
- D. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL UNDERGROUND FEEDERS IN PVC SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC 250.
- E. COORDINATE ALL UNDERGROUND UTILITY WORK INCLUDING BUT NOT LIMITED TO THE FOLLOWING: EC RESPONSIBLE FOR ALL PRIMARY/SECONDARY UG CONDUITS INSTALLED FROM UTILITY DEMARC TO PAD OR NEW POLE-MOUNT TRANSFORMER LOCATION, (WHEN REQUIRED). CONFIRM ALL UTILITY WORK WITH OWNER, ARCH, GC, UTILITY REPRESENTATIVE, ETC PRIOR TO CONSTRUCTION.
- F. AS-BUILT DRAWINGS SHALL INCLUDE AN OVERALL SITE PLAN SHOWING ROUTING OF ALL CIRCUITRY AND LOCATIONS OF ALL TRANSFORMERS, ETC. AND PULL BOXES, ETC.
- G. PROVIDE APPROPRIATE POWER AND GFCI PROTECTION FOR ALL ABOVE GROUND PIPING HEAT TRACE. COORDINATE VOLTAGE/PHASE WITH CONTRACGTOR FURNISHING HEAT TRACE.

KEYED SHEET NOTES

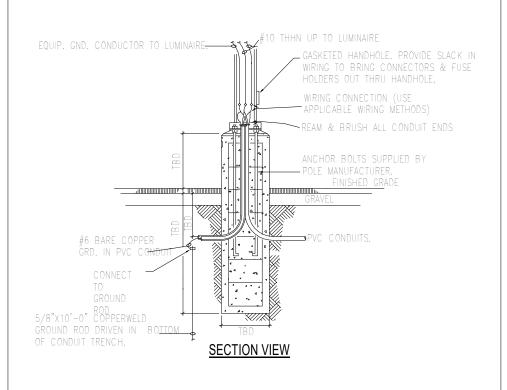
PROVIDE POWER TO LIGHTS AS SHOWN AND DATA (IF REQUIRED) FOR EXTERIOR MONUMENT SIGN. GROUND MOUNTED FLOOD LIGHTS TO BE CONTROLLED VIA PHOTOCELL (SEE 1ST FLOOR LIGHTING PLAN FOR CONTINUATION OF BRANCH CIRCUIT). COORDINATE ALL ASSOCIATED WORK WITH OWNER'S REP AND ARCHITECT PRIOR TO CONSTRUCTION.

- 1 SEE POLE BASE DETAIL FOR MORE INFORMATION.
- PROPOSED LOCATION OF PAD MOUNT TRANSFORMER. COORDINATE ALL REQUIRED WORK WITH OWNER'S REP, ARCHITECT, AND DUKE ENERGY PRIOR TO CONSTRUCTION.
- 3 UTILITY METER TO BE INSTALLED PAD MOUNTED NEXT TO UTILITY TRANSFORMER. INSTALL PER DETAIL IN CURRENT EDITION OF METER INSTALLERS GUIDE (DUKE RED BOOK).
- 4 PROPOSED LOCATION OF STANDBY GENERATOR. PROVIDE CONCRETE PAD PER MANUFACTURER'S REQUIREMENTS
- PER MANUFACTURER'S REQUIREMENTS.

 5 PROVIDE PROTECTIVE BOLLARDS AROUND UTILITY TRANSFORMER PER DUKE
- ENERGY REQUIREMENTS.
- 6 PROVIDE DEDICATED 120V/20A CIRCUIT IN HOTBOX AND METER PIT FOR FUTURE HEAT TRACE. COORDINATE TRENCH/PIT LOCATION WITH INSTALLING CONTRACTOR PRIOR TO CONSTRUCTION.
- PROVIDE 1" EMPTY CONDUIT AND PULL STRING FROM ACCESSIBLE INTERIOR

 LOCATION TO METER PIT LOCATION FOR FIRE ALARM CABLING
- 8 PROVIDE PHOTOCELL OPTION IN LIGHTING SUBMITTAL PACKAGE FOR POLE

LIGHTING. SEE LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.



2 POLE BASE DETAIL - PARKING LOT

BY OTHERS NTS

PROPERTY LINE

NOTE - DETAIL ONLY SHOWS REQUIRED ELECTRICAL ITEMS. POLE BASE DIAMETER, DEPTH, AND REBAR TO BE DESIGNED BY STRUCTURAL ENGINEER AND/OR LIGHTING MANUFACTURERS GUIDELINES.



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MEP Consulting Services, Inc. in OH

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THE CROSSROADS CENTER 2114 READING RD. CINCINNATI, OHIO

NO. DESCRIPTION DATE

PERMIT SET

1 ADDENDUM 1

2 ADDENDUM 2

ELECTRICAL SITE PLAN

08/09/24

08/29/24

09/06/24

10637

E300

ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

Switchboard: MSB1

Location: ELECTRIC / DATA 128
Supply From: 500 kVA, 120 V/208 V, Three...
Mounting: Floor

Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: TBA
Mains Type: MCB
Mains Rating: 1600 A
MCB Rating: 1600 A

Total Amps: 1475 A

Notes: PROVIDE SURGE PROTECTION AT MAIN CIRCUIT BREAKER PER NEC 230.67

Enclosure: NEMA 1

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	LP1	3	400 A	400 A	98864 VA	
2	LP2	3	125 A	125 A	34086 VA	
3	LP3	3	150 A	150 A	47824 VA	
4	ATS-SB	3	1000 A	1000 A	306549 VA	
5	ELEV-MOTOR 50HP	3	200 A	200 A	41040 VA	
6	EF-2	2	20 A	20 A	270 VA	
7	EXTERIOR POLE LIGHTING	2	20 A	20 A	2784 VA	
8						
9						
10						
11						
12						
		<u>.</u>	To	tal Conn. Load:	531412 VA	

Legend:

IPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLIN AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR 9/5/2024 9:53:35 AM

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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Cooling	416 VA	100.00%	416 VA		
Heating	197442 VA	100.00%	197442 VA	Total Conn. Load:	531412 VA
Lighting - Exterior	280 VA	125.00%	350 VA	Total Est. Demand:	498517 VA
Motor	44313 VA	123.27%	54624 VA	Total Conn.:	1475 A
Other	0 VA	0.00%	0 VA	Total Est. Demand:	1384 A
Receptacle	106540 VA	54.69%	58270 VA		
ighting	20666 VA	125.00%	25833 VA		
HEATING AND COOLING MOTOR	122796 VA	100.00%	122796 VA		
Non-Continuous	39700 VA	100.00%	39700 VA		

Branch Panel: LP3

Location: MEP 330

Supply From: MSB1

Mounting: Surface
Enclosure: 1

Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: TBD Mains Type: MLO Mains Rating: 150 A MCB Rating: 0 A

Notes:

СКТ	Load Name	Trip	Poles		4	ı	В		C	Poles	Trip	Load Name	СКТ
1	Duplex Receptacle_EBS, Receptacle	20 A	1	900 VA	900 VA					1	20 A	Duplex Receptacle_EBS, Receptacle	2
3	Receptacle	20 A	1			1080	1080			1	20 A	Receptacle	4
5	Duplex Receptacle_EBS, Receptacle	20 A	1					1080	900 VA	1	20 A	Duplex Receptacle_EBS, Receptacle	6
7	Duplex Receptacle_EBS, Receptacle	20 A	1	1080	900 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			1080	1080			1	20 A	Receptacle	10
11	Receptacle	20 A	1					1080	1080	1	20 A	Receptacle	12
13	Receptacle	20 A	1	1080	1080					1	20 A	Duplex Receptacle_EBS, Receptacle	14
15	Receptacle	20 A	1			1000	1440			1	20 A	Receptacle	16
17	Receptacle	20 A	1					1080	2040	3	30 A	VAV3-3	18
19	VAV3-2	20 A	3	1440	2040								20
21						1440	2040						22
23								1440	2520	3	30 A	VAV3-7	24
25	VAV3-6	20 A	3	624 VA	2520								26
27						624 VA	2520						28
29								624 VA	1200	3	20 A	VAV3-11	30
31	VAV3-10	20 A	3	1200	1200								32
33				/		1200,	1200			7	/	7	$\sqrt{34}$
35						γ	Y	1200	360 VA	1 ^Y	20 A	Receptacle	36
37	Lighting	20 A	1	336 VA	500 VA					1	20 A	RADON REDUCTION SYSTEM	38
39				1	~	人	1732	~	7	<u>1\</u>	20,A	Lighting \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40_
41													42
		Tot	al Load:	1578	6 VA	1743	88 VA	1460	4 VA			1	
		Tota	I Amps:	13	3 A	14	7 A	12	2 A	ı			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Heating	27072 VA	100.00%	27072 VA		
Receptacle	18280 VA	77.35%	14140 VA	Total Conn. Load:	47824 VA
Lighting	2068 VA	125.00%	2585 VA	Total Est. Demand:	44178 VA
Non-Continuous	500 VA	100.00%	500 VA	Total Conn.:	133 A
				Total Est. Demand:	123 A

Branch Panel: LP1

Location: ELECTRIC / DATA 128
Supply From: MSB1
Mounting: Surface

Enclosure: 1

Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: TBD Mains Type: MLO Mains Rating: 400 A MCB Rating: 0 A

Notes:

CKT	Load Name	Trip	Poles	<i> </i>	4	В		С		Poles	Trip	Load Name	СКТ
1	Duplex Receptacle_EBS, Receptacle	20 A	1	1440	1180					1	20 A	Duplex Receptacle_EBS	2
3	Duplex Receptacle_EBS, Receptacle	20 A	1			1620	1440			1	20 A	Duplex Receptacle_EBS, Receptacle	4
5	Duplex Receptacle_EBS, Receptacle	20 A	1					900 VA	720 VA	1	20 A	Duplex Receptacle_EBS	6
7	Duplex Receptacle_EBS	20 A	1	1000	1620					1	20 A	Duplex Receptacle_EBS, Receptacle	8
9	Duplex Receptacle_EBS	20 A	1			180 VA	1440			1	20 A	Duplex Receptacle_EBS, Receptacle	10
11	Duplex Receptacle_EBS	20 A	1					180 VA	900 VA	1	20 A	Duplex Receptacle_EBS	12
13	Duplex Receptacle_EBS, Receptacle	20 A	1	1260	1620					1	20 A	Duplex Receptacle_EBS, Receptacle	14
15	Duplex Receptacle_EBS, Receptacle	20 A	1			1260	360 VA			1	20 A	Duplex Receptacle_EBS	16
17	Duplex Receptacle_EBS, Receptacle	20 A	1					1440	1080	1	20 A	Duplex Receptacle_EBS, Receptacle	18
19	Duplex Receptacle_EBS	20 A	1	360 VA	1260					1	20 A	Duplex Receptacle_EBS, Receptacle	20
21	Duplex Receptacle_EBS, Receptacle	20 A	1			1260	1080			1	20 A	Duplex Receptacle_EBS, Receptacle	22
23	Duplex Receptacle_EBS, Receptacle	20 A	1					1080	720 VA	1	20 A	Duplex Receptacle_EBS, Receptacle	24
25	FRIG	20 A	1	500 VA	360 VA					1	20 A	Duplex Receptacle_EBS	26
27	MICROWAVE	20 A	1			1500	360 VA			1	20 A	Duplex Receptacle_EBS	28
29	VAV1-11	50 A	3					4320	1440	1	20 A	Receptacle	30
31				4320	500 VA					1	20 A	FRIG	32
33						4320	1200			1	20 A	DW-GFCI	34
35	VAV1-7	20 A	3					1680	500 VA	1	20 A	SUMP	36
37				1680	500 VA					1	20 A	HWRP1	38
39						1680	2520			3	30 A	VAV1-10	40
41	VAV1-4	30 A	3					2040	2520				42
43				2040	2520								44
45						2040	1656			3	20 A	VAV1-9	46
47	VAV1-3	30 A	3					2040	1656				48
49				2040	1656								50
51						2040	998 VA			2	20 A	EWH1-1	52
53	DSSI-1, DSSO-1	20 A	2					156 VA	998 VA				54
55				156 VA	1440					3	20 A	VAV1-8	56
57	EWH1-1	20 A	2			998 VA	1440						58
59								998 VA	1440				60
61	EUH1-1	20 A	2	1144	1200					3	20 A	VAV1-1	62
63						1144	1200						64
	BTH-120	20 A	1					500 VA	1200				66
67	EF-3	20 A	1	324 VA	500 VA					1	20 A	BTH-120	68
69	EXT. SIGN	20 A	1			500 VA	947 VA			1		Lighting	70
71	Lighting	20 A	1					1189	1526	1		Lighting	72
73	Lighting, Lighting - Exterior	20 A	1	713 VA	34 VA					1_		Lighting	/14
75	Lighting	20 A	1			1346	500.√A	~	Y -	\rightarrow		METER PIT	76
77	MÉTER PIT	20 A	1		1		1	500 VA	500 VA	1		BATTERY CHARGER - GENERATOR	78
79	BLOCK HEATER - GENERATOR	20 A	1	500 VA			1		Λ	. /			80
81	Λ Λ Λ	1								\sim			82
83		\vdash	\rightarrow										84

	Total Amps: 26	5 A 291 A	268 A	
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Cooling	312 VA	100.00%	312 VA	
Heating	56970 VA	100.00%	56970 VA	Total Conn. Load: 98864 VA
Lighting - Exterior	280 VA	125.00%	350 VA	Total Est. Demand: 91546 VA
Motor	324 VA	125.00%	405 VA	Total Conn.: 274 A
Other	0 VA	0.00%	0 VA	Total Est. Demand: 254 A
Receptacle	27560 VA	68.14%	18780 VA	
Lighting	5472 VA	125.00%	6841 VA	
Non-Continuous	8200 VA	100.00%	8200 VA	

Branch Panel: LP2

Location: MEP 234
Supply From: MSB1
Mounting: Surface

Enclosure: 1

Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: TBD
Mains Type: MLO
Mains Rating: 125 A
MCB Rating: 0 A

Notes:

CKT	Load Name	Trip	Poles	ļ <i>i</i>	A		В	(Poles	Trip	Load Name	СКТ
1	Receptacle	20 A	1	1080	1080					1	20 A	Receptacle	2
3	Receptacle	20 A	1			1440	1440			1	20 A	Receptacle	4
5	Duplex Receptacle_EBS	20 A	1					360 VA	1260	1	20 A	Receptacle	6
7	Duplex Receptacle_EBS	20 A	1	500 VA	180 VA					1	20 A	Duplex Receptacle_EBS	8
9	Duplex Receptacle_EBS	20 A	1			180 VA	500 VA			1	20 A	Duplex Receptacle_EBS	10
11	Duplex Receptacle_EBS	20 A	1					180 VA	180 VA	1	20 A	Duplex Receptacle_EBS	12
13	Duplex Receptacle_EBS	20 A	1	180 VA	1440					1	20 A	Receptacle	14
15	Receptacle	20 A	1			1440	540 VA			1	20 A	Receptacle	16
17	Receptacle	20 A	1					720 VA	1260	1	20 A	Receptacle	18
19	Receptacle	20 A	1	1080	1680					3	20 A	VAV2-2	20
21	VAV2-6	20 A	3			1440	1680						22
23								1440	1680				24
25				1440	2520					3	30 A	VAV2-8	26
27	Lighting	20 A	1			309 VA	2520						28
29	Lighting	20 A	1					872 VA	2520				30
31	Duplex Receptacle_EBS	20 A	1	1000									32
33													34
35													36
37													38
39													40
41													42
		Tota	al Load:	1218	0 VA	1147	76 VA	10432 VA					
		Tota	I Amps:	103	3 A	97	7 A	87	A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals	
Heating	16920 VA	100.00%	16920 VA			
Receptacle	15040 VA	83.24%	12520 VA	Total Conn. Load:	34086 VA	
Lighting	1181 VA	125.00%	1476 VA	Total Est. Demand:	31848 VA	
Non-Continuous	1000 VA	100.00%	1000 VA	Total Conn.:	95 A	
				Total Est. Demand:	88 A	



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THE CROSSROADS CENTER 2114 READING RD. CINCINNATI, OHIO

 NO. DESCRIPTION
 DATE

 PERMIT SET
 08/09/24

 1 ADDENDUM 1
 08/29/24

09/06/24

ADDENDUM 2

ELECTRICAL DETAILS

10637

E400