ANE	LBOARD: PLP														
US AMP	PS: 400A		AIC RATING: 22AIC												
	E/TYPE: MLO		SERVES: GENERAL POWER												
OLTS/PI	HASE: 120Y/208V, 3PH, 4W					MOUN	TING	3: SU	JRFACE	E					
ECTION	V (S):1					LOCAT	TION	: TEN	NANT S	SUITE					
KT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	Р	P	BKR	WIRE	VOLTAMPS/PHASE		ASE	DESCRIPTION	
10.		Α	В	С	NO.	AMP			AMP	NO.	Α	В	С		
1	LATHE	1700			10	20	1	1	20	12	500			CHECK IN RECEPT. (I.G.)	Ī
3	SPARE				10	20	1	1	20	10		180		BATTERY RACK RECEPT.	T
5	SPARE				12	20	1	1	20	10		20	180	BATTERY RACK RECEPT.	
7	GENERAL RECEPTACLE	540		2	12	20	1	1	20	12	360		la= 3	BREAK AREA RECEPTACLE	
9	STARTER/ ALT. TESTER		1680	Ĭ.	10	20	1	1					2	SPACE	
11	STARTER/ ALT. TESTER			1680	10	20	1	1	20	EX			360	RTU RECEPTACLES	\Box
13	STARTER/ ALT. TESTER	1640			10	20	1	1	20	12	360		20 0 0	GENERAL RECEPTACLE	
15	GENERAL RECEPTACLE		360		12	20	1	1	20	10		1750		COKE MACHINE (ONLY)	3
7 6	ISOLATED GRD. RECEPTS.			720	12	20	1	1	20	12			720	ISOLATED GRD. RECEPTS.	
9 6	GENERAL RECEPTACLE	360			12	20	1	1	20	12	720			ISOLATED GRD. RECEPTS.	
21	BATTERY BACKUP (IG)		3000		10	30	1	1	20	12		360		ISOLATED GRD. RECEPTS.	
23 3 1	WATER COOLER RECEPT. (I.G.)			900	12	20	1	1	20	12			720	ISOLATED GRD. RECEPTS.	
25 GI	ENERAL RECEPTACLE/ IRRIGATION	1000			12	20	1	1	20	12	360			ISOLATED GRD. RECEPTS.	
27	SECURITY		500		12	20	1	1						SPACE	\Box
29	RECEPTACLES (OS)			1080	12	20	1	1						SPACE	
31 4	CIRCULATING PUMP	700			12	20	1	1						SPACE	
33 4	TANK WATER HEATER		1650		10	20	1	1	20	12		360		ISOLATED GRD. RECEPTS.	6
35	ISOLATED GRD. RECEPTS.			360	12	20	1	1	20	12			360	ISOLATED GRD. RECEPTS.	6
7 7	J-BOX FIRE ALARM	360			12	20	1	1	20	12	500	4	S. S. S. S.	PRINTER RECEPTACLE	6
19	SPACE						1	1	15	12		720	9	PHONE EQUIP. RECEPTS.	6
11	SPACE						1	1	20	12			900	GENERAL RECEPTACLE	
	SUBTOTAL	6300	7190	4740	1						2800	3370	3240	SUBTOTAL	
$\neg -$	TOTAL PHASE A - VA 9100	LOAD		CONN	I. VA	DF	1	ACC	ESSO	RIES			<u> </u>		
-	AMPS 75.8	COOLING		N.		1.00		_			ROUND B	ΔR			
	TOTAL PHASE B - VA 10560	HEATING		N.		1.00	1: EQUI MENT GROOND BANK								

SQ D#QO1PA - LOCKABLE CLIPS

Е	TRANSFER SWITCH SCHEDULE											
POSITION	CIRCUIT BREAKER	IT BREAKER LOAD DESCRIPTION		BREAKER	POSITION	CIRCUIT BREAKER	LOAD DESCRIPTION		BREAKER			
Α	20A/1P	OFFICE COMPUTER	0.36	PLP-36	Н	20A/1P	LIGHT NG HARD PARTS (D MMED TO 30% ON)	0.29	MP-5			
В	20A/1P	COUNTER RECEPTACLES	0.36	PLP-34	1	20A/1P	INSTALLER (ISOLATED GRD. RECEPTACLE)	0.72	PLP-17			
С	20A/1P	PRINTER	0.50	PLP-38	J	20A/1P	INSTALLER (RECEPTACLE)	0.36	PLP-19			
D	20A/1P	TELEPHONE EQUIPMENT RECEPTACLE	0.72	PLP-40								
E	20A/1P	LIGHTING OFFICE/ BATHROOM (100% ON)	0.53	MP-1								
F	20A/1P	LIGHTING SECURITY (100% ON)	0.70	MP-13								
G	20A/1P	LIGHTING HARD PARTS (DIMMED TO 30% ON)	0.43	MP-3			TOTAL	4.97				

GENERAL ELECTRICAL NOTES

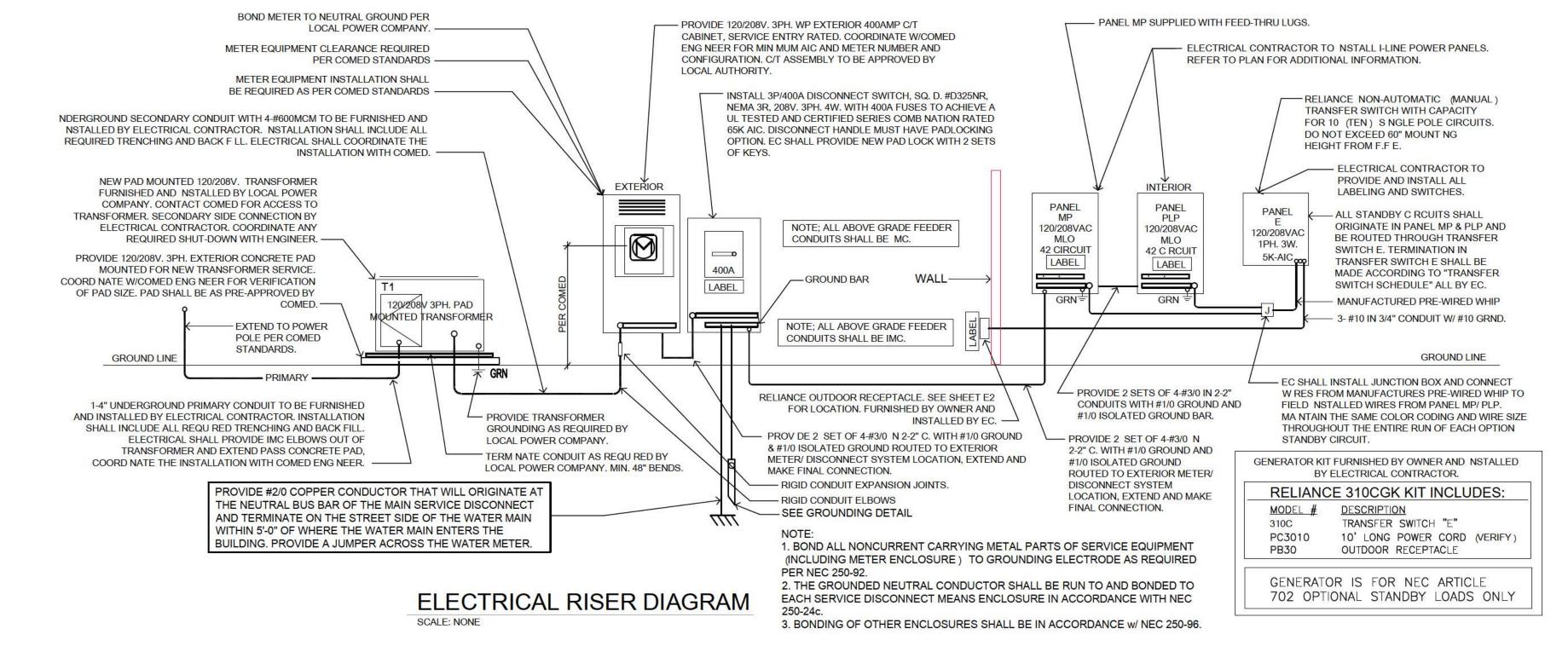
1. DRAWINGS ARE DIAGRAMMATIC & ARE NOT TO BE SCALED. SEE THE ARCHITECTURAL PLANS & FIELD VERIFY CONDITIONS

- FOR DIMENSIONS. 2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE EDITION OF NFPA 70-NATIONAL ELECTRIC CODE (NEC.) AS NOTED ON
- THE CODE SUMMARY SHEET. ALL WIRING SHALL BE IN CONDUIT, EXCEPT THAT MC-CABLE MAY BE SUBSTITUTED ONLY AS FOLLOWS:
- A. MC-CABLE (MAXIMUM CABLE LENGTH OF 6'-0") MAY BE INSTALLED ONLY FOR BRANCH C RCUIT W R NG TO
- B. MC-CABLE (MAX MUM CABLE LENGTHS SHOWN ON DETAIL 2/E2) MAY BE NSTALLED ONLY ABOVE SLAB AND
- ONLY AT LOCATIONS INDICATED ON SHEET E2. 4. FEEDER CONDUIT SHALL BE IMC OR RGS ABOVE GRADE & PVC BELOW GRADE WITH MC OR RGS ELLS & RISERS. INTERIOR BRANCH CIRCUIT CONDUIT SHALL BE ELECTRICAL METALLIC TUBING. EXTERIOR BRANCH CIRCUIT CONDUIT SHALL BE PVC
- BELOW GRADE WITH MC OR RIG D GALVANIZED STEEL CONDUIT CONTINUING ABOVE GRADE. (SPEC 26.05.33.) COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS. COORD NATION DOES NOT MEAN "I WAS HERE FIRST." 6. ALL WIRING N FINISHED SPACES SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALL NG A COMPLETE & FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPEC FICALLY CALLED OUT.
- 8. COORDINATE ALL EQU PMENT ROUGH-IN CONNECTION REQUIREMENTS. 9. ALL OUTLET BOXES SHALL BE METALLIC. (SPEC 26 05 34)
- 10. ALL CAULKING ON BUILDING PENETRATIONS SHALL BE ELASTOMERIC POLYURETHANE (NO EXCEPTIONS), EQUAL TO "VULKEM" 116. ANY CONTRACTOR WHO USES SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE & REPLACE WITH ELASTOMERIC POLYURETHANE.
- 11. RECEPTACLES INSTALLED IN RESTROOMS SHALL BE GFCI TYPE OR SHALL BE PROTECTED BY A GFI DEVICE.
- 12. ALL DEVICES SHALL BE IVORY & SHALL BE EQUAL TO THE FOLLOWING: SINGLE POLE SWITCHES -THREE-WAY SWITCHES -DUPLEX RECEPTACLE --(SPEC 26 27 26) GFCI DUPLEX RECEPTACLE ISO, GRD, RECEPTACLES -13. USE DEVICE PLATES MANUFACTURED BY THE DEVICE MANUFACTURER. (SPEC 26 27 26) 14. FEEDER & BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, STRANDED, 600V THHN/THWN INSULATION. EXCEPTION: WIRE SIZES #10 AWG & SMALLER SHALL BE SOLID. (SPEC 26 05 19) CONTRACTOR SHALL PROVIDE A TYPED C RCUIT DIRECTORY FOR ALL PANELS. (SPEC 26 05 53) 16. CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY ON ALL WORK PERFORMED. CONTRACTOR SHALL PROVIDE NEW WORKING LAMPS IN ALL LIGHT FIXTURES AT JOB COMPLETION. 18. CONTRACTOR SHALL COORDINATE WITH & SHALL INCLUDE ALL FEES FOR THE SERVING "ELECTRIC UTILITY CO." TO PROVIDE ELECTRIC SERVICE AS SHOWN. CONTRACTOR SHALL ALSO INCLUDE ALL FEES FOR THE "SERVING" PHONE COMPANY" TO INSTALL NO LESS THAN 10 PAIR CABLE TO BUILDING. 19. CONTRACTOR SHALL ARRANGE FOR & INCLUDE ALL PERMITS & FEES FOR HIS SCOPE OF WORK. 20. CONTROL W RING BY HVAC CONTRACTOR. F NAL CONNECTIONS BY HVAC CONTRACTOR. SEE SHEET M1. 21. APPROVED MANUFACTURERS: PANELBOARDS & SAFETY SWITCHES (DISCONNECTS): -- 'HUBBELL -- 'STEEL CITY' 'SQUARE I -- 'G E.' -- 'LEVITON' -- 'APPLETON' - 'PASS & SEYMOUR' -- 'HUBBELL' -- 'SFIMENS' -- 'CUTLER-HAMMER' (SPEC 26 27 26) (SPEC 26 05 34) (SPEC 26 24 00)

22. MULTIWIRE BRANCH CIRCUITS WITH A "SHARED NEUTRAL" ARE NOT ALLOWED FOR SINGLE PHASE CIRCUITS.

23. ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUND NG CONDUCTOR ROUTED WITH THE C RCUIT CONDUCTORS.

THIS MEANS THAT ALL CONDUITS MUST HAVE A "GREEN" WIRE INSTALLED IN THEM AND SIZED IN ACCORDANCE WITH TABLE



250.122 OF THE NEC.

ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE CIRCUIT CONDUCTOR. THIS MEANS ALL CONDUITS MUST HAVE A GREEN WIRE INSTALLED IN THEM AND SIZED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE.

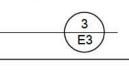
1. BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER ENCLOSURE) TO GROUNDING ELECTRODE AS REQUIRED PER NEC 250-92.

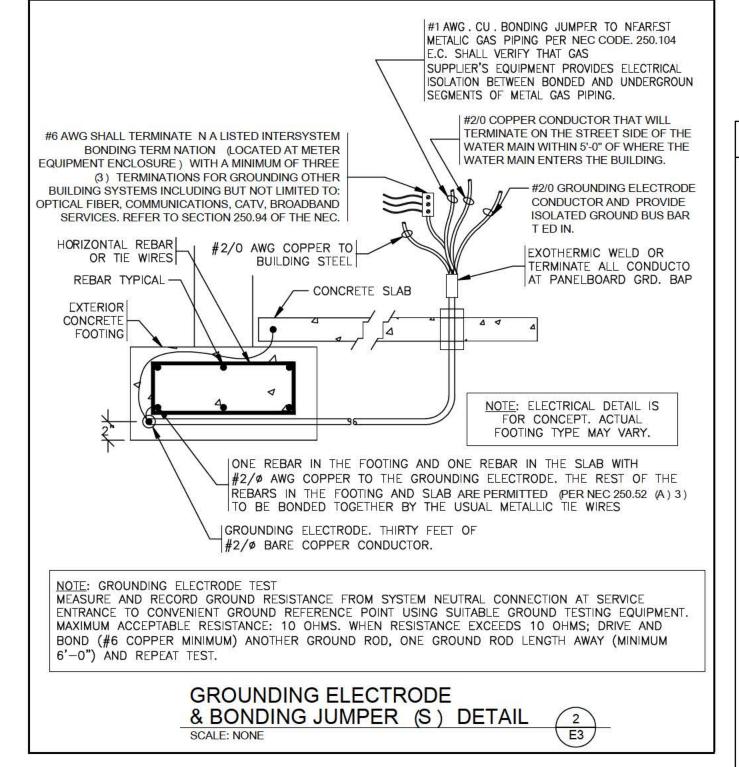
2. THE GROUNDED NEUTRAL CONDUCTOR SHALL BE RUN TO AND BONDED TO EACH SERVICE DISCONNECT MEANS ENCLOSURE IN ACCORDANCE WITH NEC

3. BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH NEC 250-96.

BONDING REQUIREMENTS

SCALE: NONE



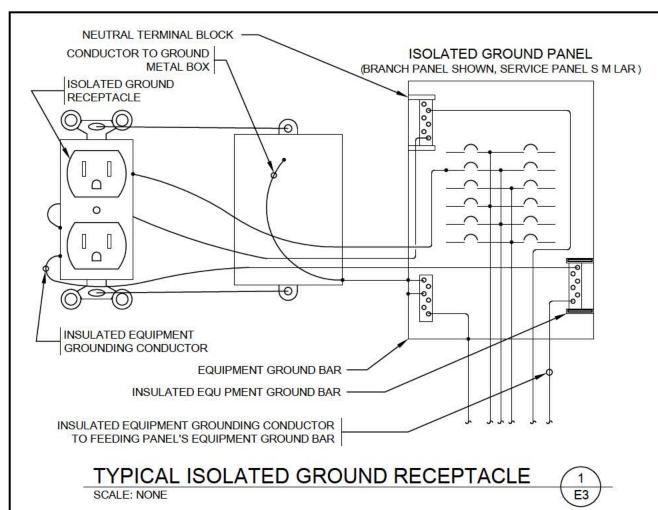


SEE SITE UTILITIES PLAN FOR METER & TRANSFORMER POLE OR PAD MOUNT LOCATIONS. . BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER ENCLOSURE) TO GROUNDING ELECTRODE AS REQUIRED 3. ALL ELECTRIC SERVICE EQUIPMENT, PANELBOARDS, CIRCUIT BREAKERS, & FUSED SWITCHES SHALL HAVE A MINIMUM 22K AIC INTERRUPTING RATING,

IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. 4. THE GROUNDED NEUTRAL CONDUCTOR SHALL BE RUN TO & BONDED TO EACH SERVICE DISCONNECTING MEANS ENCLOSURE N ACCORDANCE

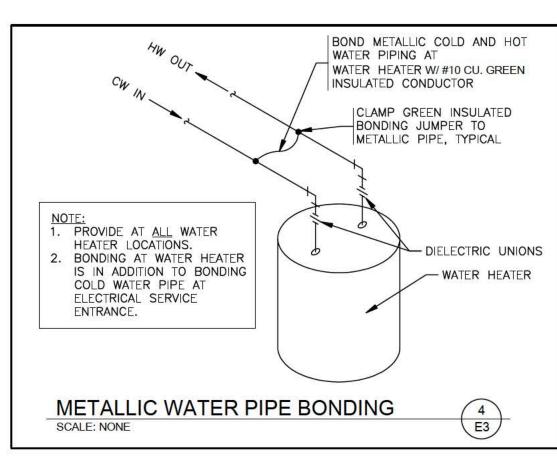
BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH N.E.C.

WITH NATIONAL ELECTRIC CODE.



WIRING & LABELING OF EXIT & EMERGENCY LIGHT CIRCUITS

- 1. SEE DETAIL 1/E1 FOR WIRING OF EXIT & EMERGENCY LIGHTS ON THESE
- 2. ALL EXIT & EMERGENCY LIGHTING CIRCUITS SHALL BE LABELED BY THE CONTRACTOR ON THE "PANEL DIRECTORY". (SPEC: NFPA 70 408.4 & 700.12



ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS

SINGLE POLE SWITCH TWO POLE SWITCH MOTOR STARTING SWITCH WITH PILOT LIGHT CLASS 1, DIVISION 1 HAZARDOUS LOCATION RATED SWITCH ASSEMBLY WALL MOUNTED OCCUPANCY SENSOR EQUAL TO "SENSORSWITCH WSX D IV" WALL MOUNTED OCCUPANCY SENSOR EQUAL TO " SENSORSWITCH WSX 2P FAN-IV" "CONTRACTOR SHALL DISABLE MANUAL SWITCHES PER MANUFACTURERS INSTRUCTIONS. SWITCH SHALL BE FULLY FAN SPEED SWITCH (SUPPLIED BY HVAC CONTRACTOR / INSTALLED BY ELECTRICAL CONTRACTOR) 0-10V LED DIMMER SWITCH, EQUAL TO "LEVITON, P710-LFZ". SEE DETA LS THIS SHEET (5-GANG MAX)

LEVITON POWER PACK OPP20-0D2 SINGLE RECEPTACLE

DUPLEX RECEPTACLE

ISOLATED GROUND DUPLEX RECEPTACLE. DEVICES AND COVERPLATE SHALL BE ORANGE. SEE DETA L 1/E3

DUPLEX RECEPTACLE. DEVICES AND COVERPLATE SHALL BE RED

ISOLATED GROUND DUPLEX RECEPTACLE. DEVICES AND COVERPLATE SHALL BE RED QUADPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES N ONE 2-GANG BOX UNDER A SINGLE

COVERPLATE) ISOLATED GROUND QUADPLEX RECEPTACLE (TWO ISO. GRD. DUPLEX RECEPTACLES IN ONE 2-GANG BOX UNDER A SINGLE COVERPLATE, DEVICES AND COVERPLATE SHALL BE RED

QUADPLEX RECEPTACLE (C RCUIT TO BE WIRED THRU OCCUPANCY SENSOR) INSTALL A PERMANENT LABEL ON EACH OUTLET STATING "SENSOR CONTROLLED OUTLET". SEE DETAIL ON SHEET E2 ABOVE COUNTER GFCI (GROUND FAULT CIRCUIT INTERRUPTING) DUPLEX RECEPTACLE

WEATHER PROOF GFCI (GROUND FAULT CIRCUIT INTERRUPTING) DUPLEX RECEPTACLE. COVER TO PROVIDE WEATHER PROOF PROTECTION WITH CORD AND PLUG IN USE

TELE-POWER POLE JUNCTION BOX

PC REMOTE PHOTO CONTROL

COMPUTER DATA OUTLET BOX TELEPHONE OUTLET BOX.

TELEPHONE OUTLET FLOOR BOX. SEE DETA L 4/E2.

4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLEX RECEPTACLE (SEE ABOVE

RECEPTACLE DESCRIPTION). SEE DETA L 4/E2 FOR NSTALLATION OF BOX. 4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLEX ISOLATED GROUND RECEPTACLE (SEE

ABOVE ISOLATED GROUND RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX 4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLEX ISOLATED GROUND RECEPTACLE (SEE

ABOVE ISOLATED GROUND RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX. DEVICES AND COVERPLATE SHALL BE RED. 2" x 4" RECTANGULAR STEEL BOX MOUNTED FLUSH ON FLOOR W/DUPLEX RECEPTACLE (SEE ABOVE

RECEPTACLE DESCRIPTION). SEE DETA L 4/E2 FOR NSTALLATION OF BOX NEMA L5-30R - SPECIAL RECEPTACLE

■ XX/XX FUSED DISCONNECT (SAFETY) SWITCH W/ SWITCH AMPACITY / FUSE AMPACITY AS INDICATED NON-FUSED DISCONNECT (SAFETY) SWITCH

POWER OR LIGHTING PANEL W/PANEL DESIGNATION SHOWN ON PLAN (SIZES & MOUNTING NDICATED ON

24 HOUR EGRESS & SECURITY LIGHT, WIRE DIRECT TO ELECTRIC PANEL AHEAD OF ANY LOCAL SWITCHES AND LIGHTING CONTROL PANEL

WALL/CEILING MOUNTED COMB NATION "EXIT/EMERGENCY" SIGN W/SHADING INDICAT NG FACES EMERGENCY LIGHT NG FIXTURE WITH BATTERY

FEEDING PANEL AND CIRCUIT NUMBER (S) NOTE: EQU PMENT GROUND CONDUCTOR NOT SHOWN CIRCUIT CONDUCTORS - GROUNDED CIRCUIT CONDUCTOR (OR NEUTRAL)

MOTION DETECTOR - SEE EM SHEETS FOR MORE INFORMATION

OS OCCUPANCY SENSOR EQUAL TO "LEVITON, OSC20-MAW" WITH POWER PACK

LOCATED ABOVE COUNTER RTU PACKAGED ROOFTOP UNIT ABOVE FINISHED FLOOR BCU BLOWER COIL UNIT CDU CONDENSING UNIT MOTOR STARTING FF FXHAUST FAN EFU ELECTRIC FURNACE COVERPLATE FURN GAS FURNACE AHU AIR HANDLER NIGHT LIGHT HP HEAT PUMP UNIT PP POWER PACK

INTERMEDIATE METALLIC TUBING TS LIGHTING CONTRACTOR RED IN COLOR DEVICES & MOTOR STARTING W/PILOT LIGHT PEC PHOTOELECTRIC CONTROL RGS RIGID GALVANIZED STEEL

UPO UN-POWERED OUTLET TIME SWITCH WALL OUTLET (46" AFF SEE MOUNTING HEIGHTS) WEATHERPROOF (ENCLOSURE) EXPLOSION PROOF ASSEMBLY GFCI GRD./FAULT CIRCUIT INTERRUPT EMT ELECTRICAL METALLIC TUBING CM CEILING MOUNTED

REILL

/1\ 1/13/20

REVISIONS