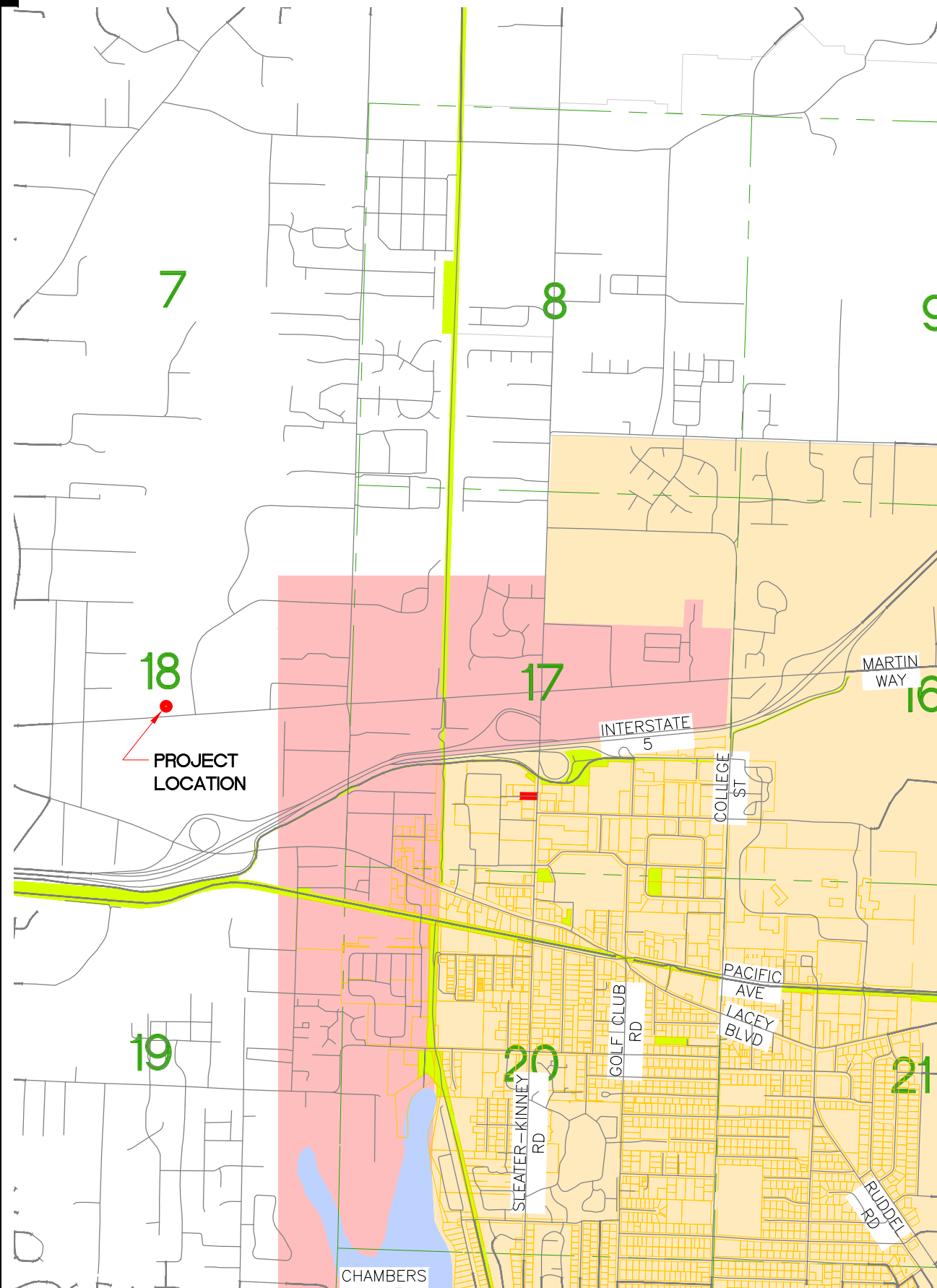


ANIMAL SERVICES SURGERY SUITE IMPROVEMENTS

LACEY CONTRACT # PW 2022-25
3120 Martin Way E, Olympia, WA 98506



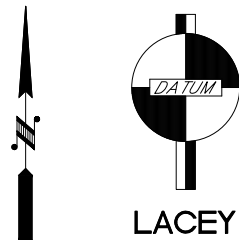
LACEY CITY OFFICIALS

MAYOR: Andy Ryder
DEPUTY MAYOR: Malcolm Miller
CITY COUNCIL: Lenny Greenstein
 Michael Steadman
 Carolyn Cox
 Ed Kunkel
 Robin Vazquez
CITY MANAGER: Scott H. Spence
CITY ATTORNEY: David S. Schneider
CITY ENGINEER: Aubrey Collier, P.E.
DIRECTOR OF PUBLIC WORKS: Scott Egger, P.E.

SHEET INDEX

PAGE NO.	SHEET NO.	DESCRIPTION
1	CS	COVER SHEET
2	A 1.0	PLUMBING AND GENERAL CONSTRUCTION
3	P 1.0	PLUMBING
4	E 1.0	ELECTRICAL
5	E 2.0	ELECTRICAL
6	E 3.0	ELECTRICAL

DATE _____



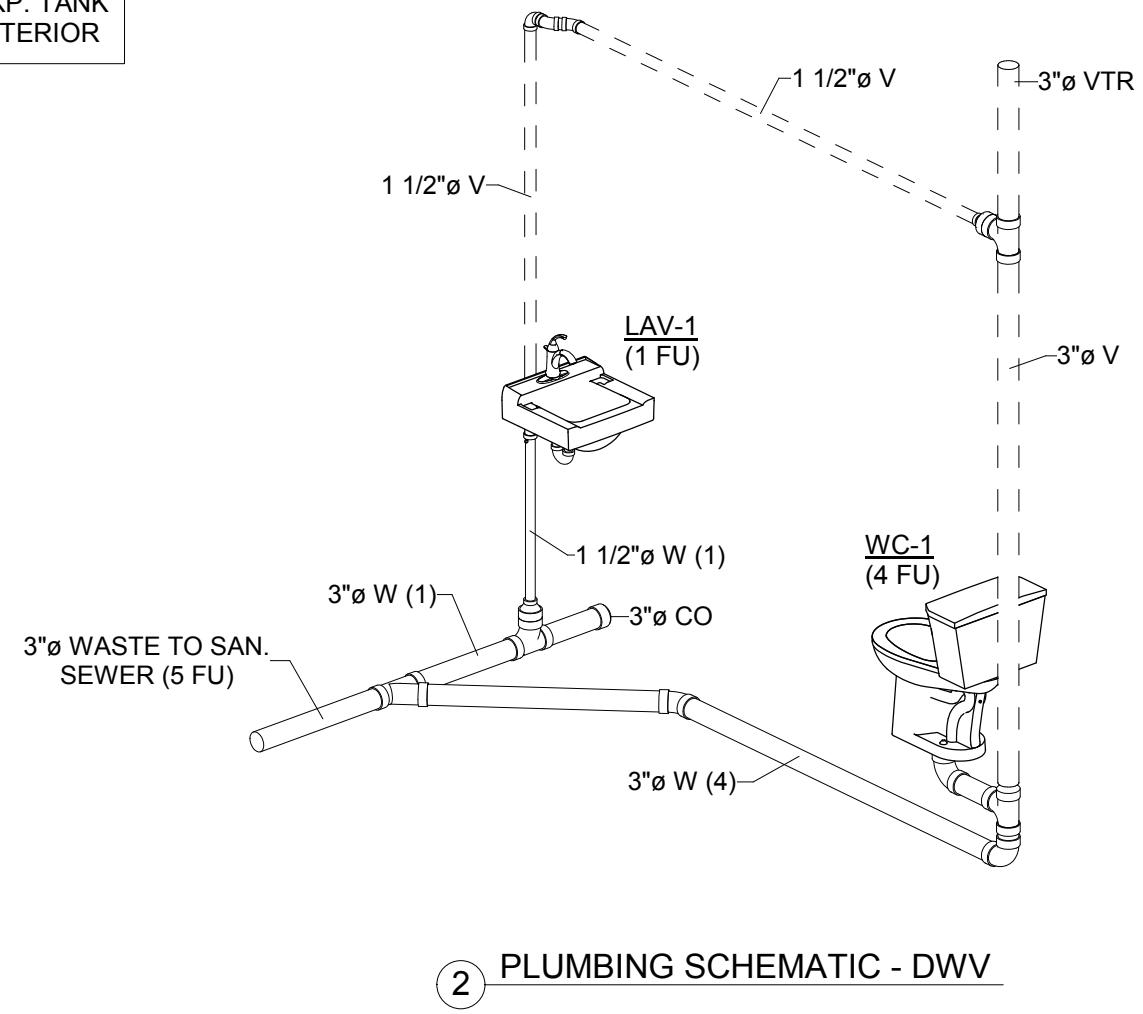
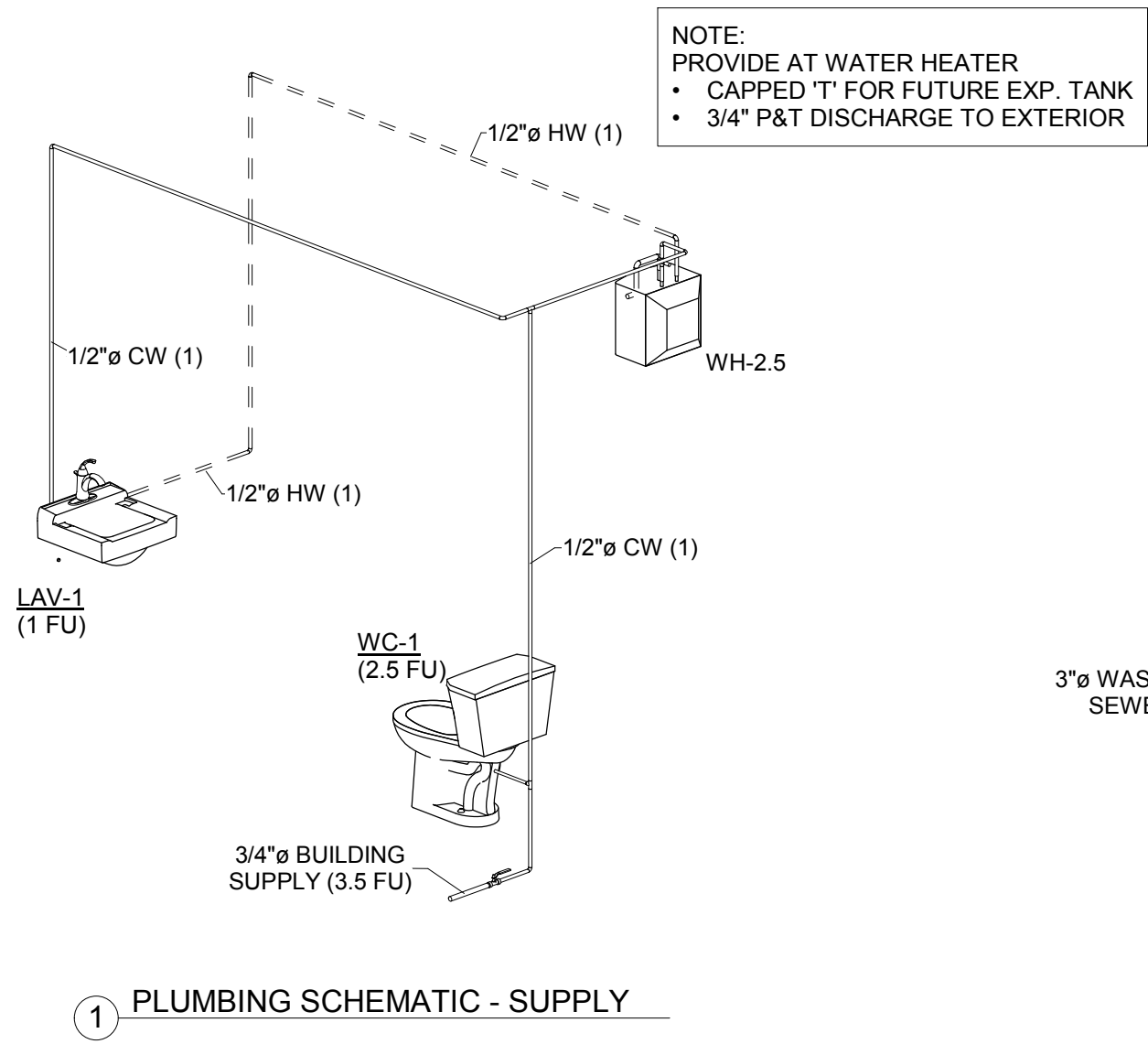
VICINITY MAP
CITY OF LACEY, WASHINGTON
SCALE : 1" = 1000'



- LACEY CITY LIMITS
- OLYMPIA CITY LIMITS
- URBAN GROWTH AREA



Lacey Dwg. Number :
D-22-20



REV.	DESCRIPTION	DATE	BY

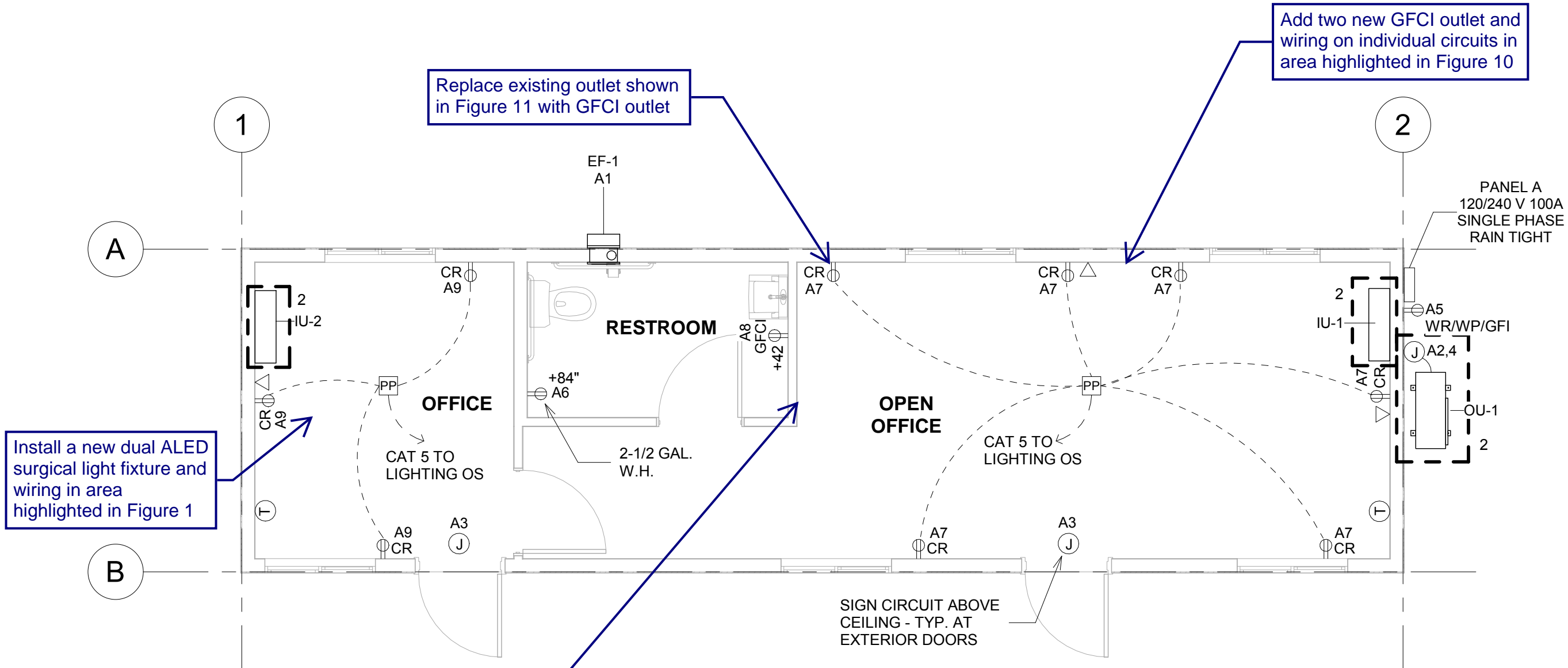
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 BUILDING SYSTEMS

MODERN BUILDING SYSTEMS, INC.
 TELEPHONE: (503) 749-4949 FAX: (503) 749-4950
 P.O. BOX 110, 9493 PORTER ROAD, AUMSVILLE, OR 97325
 CHECK OUT OUR WEB PAGE: www.modernbuildingsystems.com
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SHEET	PLUMB. SCHEMATICS & NOTES
PROJ.	DESIGN MASTER PLAN 12' x 42' MOBILE OFFICE (MODEL/ADDENDUM #2)
ADDRESS	

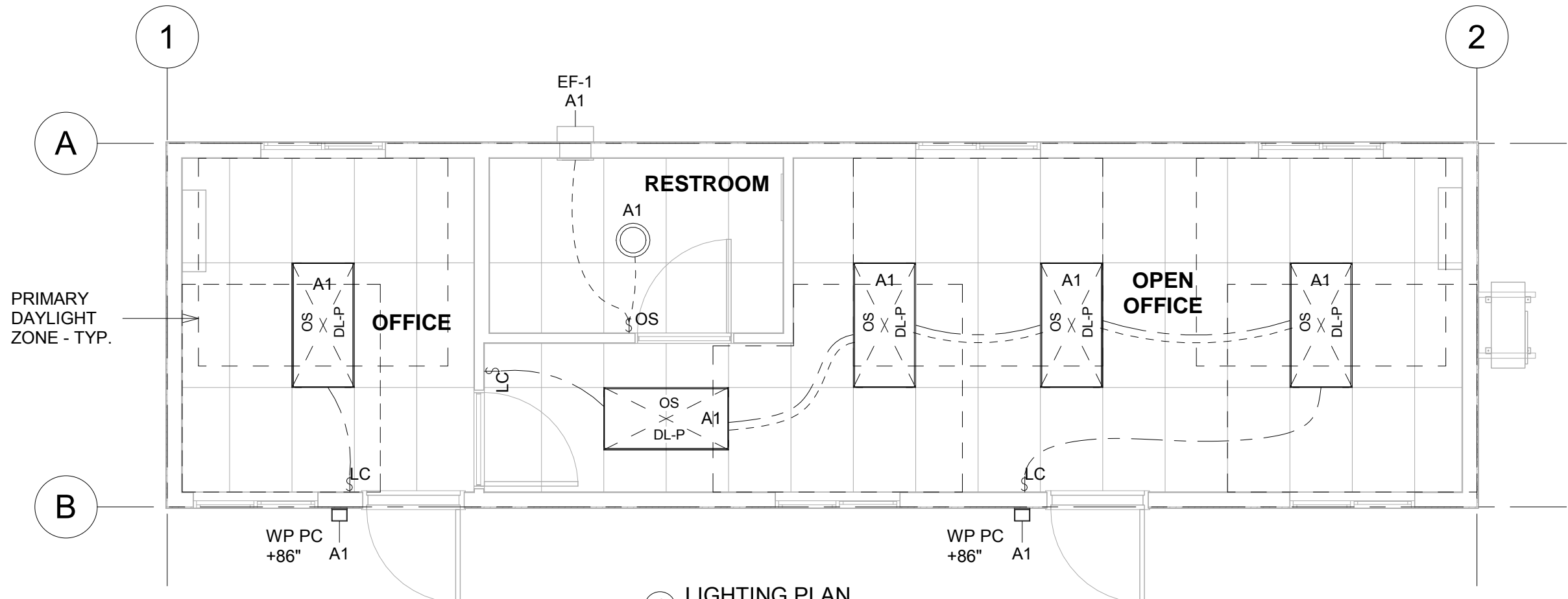
JOB#	1242 #2
SHEET #	P 1.0
DATE	10/11/18



1 ELECTRICAL PLAN
1/4" = 1'-0"



REV.	DESCRIPTION	DATE	BY			SHEET	ELECTRICAL PLAN		JOB#	1242 #2		
				REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS INC. AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.		 MODERN BUILDING SYSTEMS, INC. TELEPHONE: (503) 749-4949 FAX: (503) 749-4950 P.O. BOX 110, 9493 PORTER ROAD, AUMSVILLE, OR 97325 CHECK OUT OUR WEB PAGE: www.modernbuildingsystems.com © MODERN BUILDING SYSTEMS, INC. 2018		PROJ.	DESIGN MASTER PLAN 12' x 42' MOBILE OFFICE (MODEL/ADDENDUM #2)		SHEET #	E 1.0
						ADDRESS			DRW	VF	DATE	10/11/18



1 LIGHTING PLAN
1/4" = 1'-0"

9 ELECTRICAL LIGHTING SUMMARY

OPEN OFFICE	34 WATT x (4) = 136 WATTS
OFFICE	34 WATT x (1) = 34 WATTS
RESTROOM	28 WATT x (1) = 28 WATTS
TOTAL INTERIOR INPUT WATTS	= 198 WATTS
EXTERIOR LIGHTING	12 WATT x (2) = 24 WATTS
TOTAL EXTERIOR INPUT WATTS	= 24 WATTS

CONTINUOUS DIMMING PER WSEC C406.4
(170/170 = 100%) = NOT LESS THAN 90%

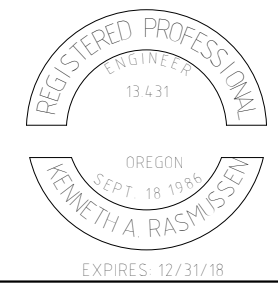
REDUCED LIGHTING POWER DENSITY MEETS WSEC C406.3
(198) WATTS ≤ (242) WATTS = (75%) x (0.66 WATT/FT²) x 490/FT²)

LIGHT FIXTURE WIRING LEGEND

- 120V POWER
- - - - - CAT5 CABLE

LIGHTING PLAN NOTES

1. THIS BUILDING PROVIDES LIGHTING "ADDITIONAL EFFICIENCY PACKAGE OPTIONS" PER C406.3 AND C406.4, TO INCLUDE WAC 51-11C, SECTION C406.4 #2, EXCEPTION #3
2. LIGHT LEVELS TO MEET WAC 246-366-115 TABLE 2
3. OCCUPANCY SENSOR(S) IN EACH ROOM WILL BE WIRED TO CONTROL ALL LIGHT FIXTURES IN THAT ROOM.
4. LIGHT WIRING AS SHOWN IS FOR GENERAL CONTROL CLARIFICATION ONLY. ACTUAL WIRING FOR CONTROLS (I.E.: SWITCHES, OCCUPANCY SENSORS AND DAYLIGHT SENSORS) SHALL BE PER CONTROL MANUFACTURER'S SPECIFICATIONS AND AS NECESSARY TO MEET THE CODE REQUIREMENTS FOR EACH CONTROL AND THE LIGHT FIXTURES CONNECTED TO IT.
5. DAYLIGHTING AND OCCUPANCY SENSORS ARE INTEGRAL TO EACH LIGHT FIXTURE AS SHOWN AND PROGRAMMED TO COVER EACH DAYLIGHT ZONE. OCCUPANCY SENSORS ARE PROGRAMMED TO CONTROL ALL FIXTURES IN THE SPACE



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						PROJ. DESIGN MASTER PLAN 12' x 42' MOBILE OFFICE (MODEL/ADDENDUM #2)	SHEET # E 2.0	
						ADDRESS	DRW VF	DATE 10/11/18

MAIN DISTRIBUTION PANEL PANEL A
MOUNTING Surface

PROJECT NO: 1242 #2
DATE: 10/11/18

2

Load Name	Rating	Circuit Number	Number of Poles	A		B		Number of Poles	Circuit Number	Rating	Load Name	
Lighting / Exhaust Fan	20 A	A1	1	265 VA	2064 VA			2	A2	20 A	HVAC	
Sign Circuit	20 A	A3	1			1200 VA	2064 VA	--	A4	--	--	
Exterior Receptacle	20 A	A5	1	180 VA	1500 VA			1	A6	20 A	Water Heater	
Receptacle	20 A	A7	1			1080 VA	180 VA	1	A8	20 A	Receptacle	
Receptacle	20 A	A9	1	540 VA					A10			
		A11							A12			
				4549 VA		4524 VA						
TOTAL PANEL VA=			9073 VA					38 A	=TOTAL PANEL AMPS			
BUSS SIZE	100 A							VOLTAGE	120/240 Single			
MAIN BREAKER	100 A							PHASE	1			
ITEM	CONNECTED LOAD	DEMAND FACTOR		CALCULATED LOAD								
LIGHTS	1715 VA	125.00%		2144 W								
SIGN CIRCUIT	1200 VA	125.00%		1500 W								
RECEPTACLE	1980 VA	100.00%		1980 W								
DED. RECEPTACLE				0 W								
MOTORS & COMPRESSORS												
EXHAUST FAN	14 VA	100.00%		14 W								
LARGEST MOTOR	14 VA	25.00%		4 VA								
HEATING & A/C (Per Mfg's Specs)												
TOTAL HEAT & A/C LOAD	4128 VA	100.00%		4128 W								
MISCELLANEOUS												
WATER HEATER	1500 VA	100.00%		1500 W								
CONNECTED LOAD												
TOTAL VA =	10551 VA	TOTAL VA =		11270 VA								
TOTAL AMPS =	44 A	TOTAL AMPS =		47 A								

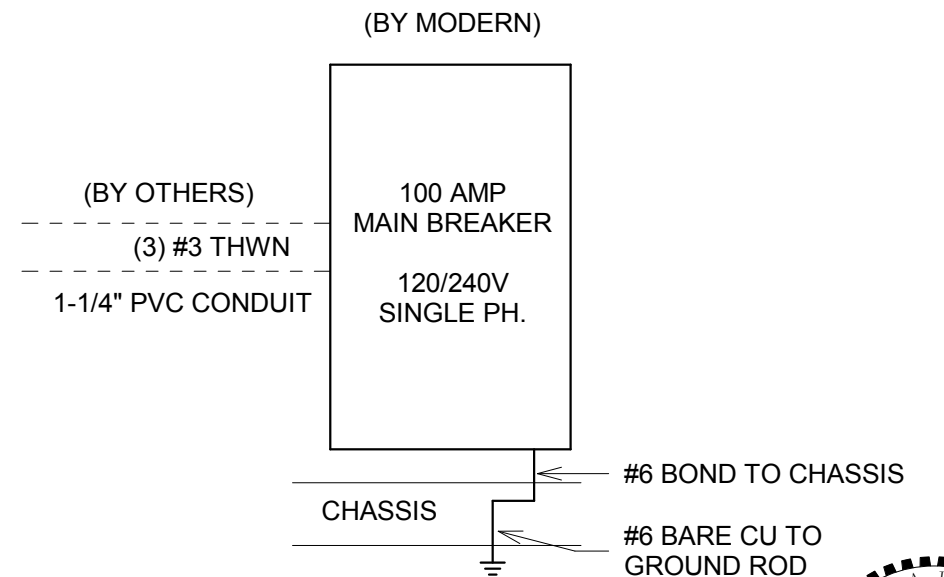
NOTE: CONNECTED LOAD FOR LIGHTS IS FROM NEC TABLE 220.12

NOTE:
EMT CONDUIT SHALL NOT BE USED WITH UNFUSED CONDUCTORS INSIDE BUILDING LINES

FIELD VERIFY AIC RATING REQUIREMENTS

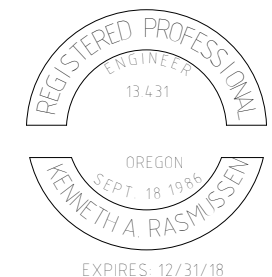
BUILDING/SERVICE DISCONNECTING MEANS MUST BE LOCATED ON OR WITHIN 15 FEET OF THE BUILDING AND MUST HAVE LABEL IDENTIFYING ITS FUNCTION AS THE BUILDING DISCONNECT PER WAC 296-46B-225

GROUNDING TO BE IN ACCORDANCE WITH NEC 250



ONE-LINE DIAGRAM

NO SCALE



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						PROJ.	DESIGN MASTER PLAN 12' x 42' MOBILE OFFICE (MODEL/ADDENDUM #2)		SHEET #	E 3.0		
						ADDRESS			DRW	VF	DATE	10/11/18