#### **Emergency Shelter Approval**

Applicant:	Jefferson County Faith Based Network/City of Madras		
Location:	61 NW Oak Street		
Map and Tax Lot:	111302DD00502		
Proposal:	Approximately 4,250 square foot emergency shelter		
Application Filing Date:	April 6, 2022		
Exhibits:	<ul> <li>A. City of Madras Shelter, 90% CD Set</li> <li>B. City of Madras Burden of Proof Narrative</li> <li>C. City of Madras Resolution No. 03-2021</li> <li>D. FEMA Flood Insurance Rate Map No. 4101030001</li> </ul>		

#### **Background:**

In June 2020, the Oregon State Legislature adopted HB 4212 to remove land use barriers that might otherwise prevent emergency shelters from locating on certain sites. HB 4212 was followed by the passage of HB 2006 in May of 2021 continuing to allow local governments and certain non-profit organizations to develop emergency shelters in available buildings and/or on open sites without the need for any land use approvals (such as an application for a zone change or a conditional use permit) for the underlying property and notwithstanding any conflicting land use regulations. Applicant is seeking approval under this HB 2006.

С

#### FINDINGS AND CONCLUSIONS:

#### HB 2006 (2021 Regular Session)

SECTION 2. (1) As used in this section, "emergency shelter" means a building or cluster of buildings that provides shelter on a temporary basis for individuals and families who lack permanent housing.

**FINDING:** Applicant is proposing a building for temporarily sheltering individuals and families who lack permanent housing, the proposal qualifies as an "emergency shelter".

SECTION 3. (1) A local government shall approve an application for the development or use of land for an emergency shelter, as defined in section 2 of this 2021 Act, on any property, notwithstanding ORS chapter 195, 197, 197A, 215 or 227 or any statewide plan, rule of the Land Conservation and Development Commission or local land use regulation, zoning ordinance, regional framework plan, functional plan or comprehensive plan, if the emergency shelter:

(a) Includes sleeping and restroom facilities for clients;

**FINDING:** Per plans submitted by Applicant (Sheet A2.10), sleeping quarters and restrooms are proposed.

(b) Will comply with applicable building codes;

**FINDING:** As with other structural development, Applicant will be required to obtain all required building permits for this type of development from Jefferson County prior to commencement of construction. Applicant shall satisfy this criterion based upon issuance of all necessary building permits.

(c) Is located inside an urban growth boundary or in an area zoned for rural residential use as defined in ORS 215.501;

**FINDING:** The subject parcel is within Madras city limits.

(d) Will not result in the development of a new building that is sited within an area designated under a statewide planning goal relating to natural disasters and hazards, including flood plains or mapped environmental health hazards, unless the development complies with regulations directly related to the hazard;

**FINDING:** This parcel is outside of known flood hazards per the 1989 FIRM map, which is the most recent map available. There are no other mapped environmental or health hazards known at this location.

(e) Has adequate transportation access to commercial and medical services; and

**FINDING:** The subject parcel is located adjacent to improved streets (NW 4<sup>th</sup> Street is paved with marked bike lanes) and near Highways 26 and 97 as well as near the Willow Creek multiuse path. This parcel is located a few blocks north of the main part of downtown Madras and less than a half mile from a full-service grocery store and pharmacy as well as less than a half mile from the nearest hospital and medical offices adjacent to the hospital.

(f) Will not pose any unreasonable risk to public health or safety.

**FINDING:** As this will be a staffed facility that will provide stability and support to underserved populations, the building will receive building permits from Jefferson County and is not located in known hazard zones, this facility is not expected to pose unreasonable risks to public health or safety.

(2) An emergency shelter allowed under this section must be operated by:

(a) A local government as defined in ORS 174.116;

(b) An organization with at least two years' experience operating an emergency shelter using best practices that is:

(A) A local housing authority as defined in ORS 456.375;

(B) A religious corporation as defined in ORS 65.001; or

(C) A public benefit corporation, as defined in ORS 65.001, whose charitable purpose includes the support of homeless individuals, that has been recognized as exempt from income tax under section 501(a) of the Internal Revenue Code on or before January 1, 2018; or

(c) A nonprofit corporation partnering with any other entity described in this subsection.

**FINIDNG:** This parcel is owned by the City of Madras and will be operated by the Jefferson County Faith Based Network who has provided shelter and relates services to individuals and families in need for more than four (4) years and therefore this standard is met.

(3) An emergency shelter approved under this section:

(a) May provide on-site for its clients and at no cost to the clients:

(A) Showering or bathing;

(B) Storage for personal property;

(C) Laundry facilities;

(D) Service of food prepared on-site or off-site;

(E) Recreation areas for children and pets;

(F) Case management services for housing, financial, vocational, educational or physical or behavioral health care services; or

(G) Any other services incidental to shelter.

(b) May include youth shelters, winter or warming shelters, day shelters and family violence shelter homes as defined in ORS 409.290.

(4) An emergency shelter approved under this section may also provide additional services not described in subsection (3) of this section to individuals who are transitioning from unsheltered homeless status. An organization providing services under this subsection may charge a fee of no more than \$300 per month per client and only to clients who are financially able to pay the fee and who request the services.

**FINIDNG:** Subject to the limitations contained in HB 2006, the proposed emergency shelter may, but is not required to, include any of the foregoing accessory uses/services/amenities.

(5) The approval of an emergency shelter under this section is not a land use decision and is subject to review only under ORS 34.010 to 34.100.

**FINIDNG:** Pursuant to the foregoing, this decision is not subject to appeal to the Land Use Board of Appeals and is only subject to review under ORS 34.010 to 34.100.

BASED ON THE FOREGOING, the proposed emergency shelter is hereby APPROVED subject to the following conditions of approval:

1. The applicant shall obtain all required building permits for any Emergency Shelter sited on the subject property.

2. The Emergency Shelter located on the subject site must be operated by an entity or partnership meeting the requirements of HB 2006.

APPROVED BY:

Nicholos S. Sel

April 6, 2022

Nick Snead, Community Development Director

Date

\*This approval is not a land use decision and is subject to review only under ORS 34.010 to 34.100.

An Equal Opportunity Provider Page 3 of 3

# MADRAS SHELTER **CITY OF MADRAS 90% CD SET**



8/22/2022 8:14:00 AM



# 08/17/2022

## OWNER

CITY OF MADRAS 125 SW E Street Madras, OR 97741 Phone: 541-325-0308 Contact: Gus Burril

## ARCHITECT

BLRB ARCHITECTS P.S. 721 SW Industrial Way, Suite 130 Bend, OR 97702 Phone: 541-330-6506 Contact: Eric Nielsen

## LAND USE PLANNING

BLACKMORE PLANNING & DEVELOPMENT SERVICES Phone: 541-419-1455 Contact: Greg Blackmore

## GEOTECHNICAL ENGINEER

THE WALLACE GROUP 62915 NE 18th Street, Suite 1 Bend, OR 97701 Phone: 541-382-4707 Contact: Adam Larson

# **CIVIL ENGINEER**

HWA 62930 O.B. Riley Road, Suite 100 Bend, OR 97703 Phone: 541-389-9351 Contact: Grant Hardgrave

## ANDSCAPE ARCHITECT

SZABO LANDSCAPE ARCHITECURE 1000 NW Wall Street, Suite 270 Bend, OR 97703 Phone: 541-382-2059 Contact: Brian Nierman

## STRUCTURAL ENGINEER

WALKER STRUCTURAL ENGINEERING 2863 NW Crossing Drive, Suite 201 Bend, OR 97703 Phone: 541-330-6869 Contact: Craig Davis

# MECHANICAL / ELECTRICAL

## ENGINEER

SAZAN GROUP 111 Southwest Fifth Avenue, Suite 3210 Portland, OR 97204 Phone: 503-416-2400 Contact: Daniel Touger

## **BLRB** architects

TACOMA | SPOKANE | PORTLAND | BEND 50 Pacific Ave 421 W Riverside Ave 621 SW Morrison St 
 Suite 700
 Suite 511

 NA 98402
 WA 99201

 253.627.5599
 509.252.5080

Suite 950 OR 97205 503.595.0270

721 SW Industrial Suite 130 OR 97702 541.330.6506

022044.000 90% CD SET **COVER SHEET** A0.01



## **ABBREVIATIONS**

	ANCHOR BOLT	NO	NUMBEF
	ABOVE FINISHED FLOOR	NTS	NOT TO
	ALUMINUM	00	ON CEN
	BOARD	OD	OVERFL
	BELOW FINISHED FLOOR	OFCI	OWNER
	BUILDING		CONTRA
	BOTTOM OF	OFOI	OWNER
	CEILING		OWNER
	CONCRETE MASONRY UNIT	OPG	OPENING
;	CONCRETE	OVHD	OVERHE
	CONTINUOUS	PL	PLATE
	DIAMETER	PPM	PRE-PAI
	DIMENSION	R	RISER
	DOWN	RAD	RADIUS
	DRAWING	RD	ROOF DI
	EACH	REF	REFERE
	ELEVATION	REINF	REINFOR
	EQUAL	REQ	REQUIRI
	EXPANSION	SEC	SECTION
	FLOOR DRAIN	SHTNG	SHEATH
	FIRE EXTINGUISHER	SHT	SHEET
	FINISHED FLOOR	SIM	SIMILAR
	FINISH	SPEC	SPECIFIC
	FACE OF BRICK	SQ	SQUARE
	FACE OF CONCRETE	STD	STANDA
	FACE OF FOUNDATION	STL	STEEL
	FACE OF STUD	STRL	STRUCT
	FOOT	TEL	TELEPH
	GAUGE	TFCI	TENANT
	GALVANIZED		CONTRA
	GYPSUM	1111	IENANI
		то	IENANI
		TOB	
•			
	MANUFACTURER	W/O	WITHOU
	MINIMUM	WD	WOOD
	MIRRORED	WP	WATERE
	NON-COMBUSTIBLE	WR	WATER
	NOT IN CONTRACT	WT	WEIGHT

IC	<b>NN</b> 3
	NUMBER
;	NOT TO SCALE
	ON CENTER
	OVERFLOW DRAIN
	OWNER FURNISHED /
	CONTRACTOR INSTALLED
)I	OWNER FURNISHED /
	OWNER INSTALLED
3	OPENING
١D	OVERHEAD
	PLATE
1	PRE-PAINTED METAL
	RISER
)	RADIUS
	ROOF DRAIN
	REFERENCE
NF	REINFORCING
2	REQUIREMENT
;	SECTION
NG	SHEATHING
-	SHEET
	SIMILAR
С	SPECIFICATION
	SQUARE
)	STANDARD
	STEEL
۲L	STRUCTURAL
	TELEPHONE
:1	TENANT FURNISHED /
	CONTRACTOR INSTALLED
I	TENANT FURNISHED /
	TENANT INSTALLED
	TOP OF
3	TOP OF BRICK
)	TOP OF CURB
V	TOP OF WALL
)	TYPICAL
)	UNLESS OTHERWISE NOTED
	VERIFY IN FIELD
	WITH
)	WITHOUT
	WOOD
	WATERPROOF
	WATER RESISTANT

# MADRAS SHELTER 022044.000

# 61 NW OAK STREET MADRAS, OR 97741

## VICINITY MAP



## **GENERAL NOTES**

 FINISH FLOOR ELEVATION IS FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR THE CORRESPONDING TARGET ELEVATION ABOVE SEA LEVEL.

2. DIMENSIONS: DIMENSIONS ARE TO FACE OF STUDS. ON MASONRY AND CONCRETE WALL DIMENSIONS ARE TO FACE OF WALL.

3. LOCATE ALL SINGLE INTERIOR DOORWAY OUTSIDE OF FRAME AT 4" FROM FACE OF WALL TO FINISH WALL, UNLESS NOTED OTHERWISE.

4. LOCATE ALL SINGLE EXTERIOR DOORWAY OUTSIDE OF FRAME AT 6" FROM FACE OF WALL TO FINISH WALL, UNLESS NOTED OTHERWISE.

5. BUILDING SHALL BE SPRINKLED THROUGHOUT, INCLUDING ENCLOSED SPACES, EXTERIOR CANOPY AND CONCEALED AREAS AS REQUIRED.

6. "PROVIDE" MEANS "FURNISH AND INSTALL."

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS OTHERWISE NOTED), AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE, CITY AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS.

8. ALL FREESTANDING FURNITURE TO BE PROVIDED AND INSTALLED BY OWNER.

9. FIELD VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES. FAILURE TO REPORT ANY DISCREPANCIES WITHIN THESE CONSTRUCTION DOCUMENTS TO THE ARCHITECT WILL NOT BE GROUNDS FOR ADDITIONAL COST OR CHANGE ORDERS.

10. DO NOT SCALE THE DRAWINGS.

## **PROJECT INFORMATION**

#### CITY OF MADRAS 125 SW E STREET MADRAS, OR 97741 PHONE: 541-475-2344

CONTACT: GUS BURRIL

PROJECT ADDRESS: 61 NW OAK STREET MADRAS, OR 97741

<u>TAX LOT ID:</u> 111302DD00502

## **PROJECT DESCRIPTION**

- RESIDENTIAL TEMPORARY (LESS THAN 30 DAYS) SHELTER FOR +/-25 **RESIDENTIAL OCCUPANTS AND 2 MANAGEMENT RESIDENTS.**
- JILDING ONE-STORY WOOD-FRAMED BUILDING WITH FIRE SPRINKLERS

SITE WORK NEW PARKING AREAS, LANDSCAPING, UTILITIES, TRASH ENCLOSURE AND STORMWATER INFRASTRUCTURE

## **PROJECT DATA**

- JURISDICTION: CITY OF MADRAS, JEFFERSON COUNTY
- BUILDING CODES: 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC) BASED ON 2018 INTERNATIONAL BUILDING CODE (IBC) W/ OREGON STATE CHAPTER 1 INTERIM AMENDMENTS
- 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC) REFERENCES ASHRAE STANDARD 90.1-2019
- 2021 OREGON ELECTRICAL SPECIALTY CODE (OESC) BASED ON THE 2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) W/ OREGON AMENDMENTS TO THE 2020 NEC
- 2019 OREGON MECHANICAL SPECIALTY CODE (OMSC) BASED ON THE 2018 INTERNATIONAL MECHANICAL CODE (IMC) AND INTERNATIONAL FUEL GAS CODE (IFGC)
- 2021 OREGON PLUMBING SPECIALTY CODE (OPSC) BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)

## ACCESSIBILITY:

2019 OSSC - CHAPTER 11 & APPENDIX E ICC/ANSI A117.1-2009 (REFERENCED BY IBC)

ZONING: USE: RESIDENTIAL BOARDING HOUSE ZONING DESIGNATION: CORRIDOR COMMERCIAL (C-1) SEE CODE INFORMATION SHEET FOR ADDITIONAL INFORMATION

VEHICLE PARKING SPACES: 26 SPACES

BICYCLE SPACES 6 SPACES

SITE AREA:

33,920 SF

OCCUPANCY USE: BOARDING HOUSE (TRANSIENT) WITH MORE THAN 10 OCCUPANTS OCCUPANCY GROUPS: A-2, B, R-1, S-1 SEPARATED/NONSEPARATED: NONSEPARATED

CONSTRUCTION TYPE:

#### TYPE: VB AUTOMATIC FIRE SPRINKLER: NFPA 13R (OSSC 903.3.1.2) W/ QUICK RESPONSE -or-

RESIDENTIAL AUTOMATIC SPRINKLERS (OSSC 903.3.2)

BUILDING AREA: GROUND FLOOR (SINGLE-STORY): 3,760 SQ FT

## BUILDING HEIGHT: # STORIES: 1

# FEET: 22 FEET

				<b>BLRB</b> architects	TACOMA       I SPOKANE       I POR         1250 Pacific Ave       505 W Riverside       621 SW         1250 Pacific Ave       505 W Riverside       621 SW         Suite 700       Suite 500       Suite 95         WA 98402       WA 98201       OR 972         253.627.5599       509.252.5080       503.595
	SHEET INDEX		SHEET INDEX		
SHEET #	SHEET NAME	SHEET #	SHEET NAME		A.M.
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A0.02 A0.03	PROJECT INFORMATION CODE INFORMATION, CODE PLAN	\$0.02 \$2.11	ABBREVIATIONS & SYMBOLS FOUNDATION PLAN		
A0.04	ACCESSIBILITY DIAGRAMS	S2.21 S3.01	ROOF FRAMING PLAN SHEAR WALL PLAN	Stamp	
	EXISTING CONDITIONS AND REMOVAL PLAN	\$3.02 \$5.01	SHEAR WALL DETAILS		
C1.01 C1.02	EROSION CONTROL PLAN (ESCP)	S6.01	STRUCTURAL DETAILS - FRAMING		
C2.01 C3.01	UTILITY PLAN	S6.02	STRUCTURAL DETAILS - FRAMING		
C4.01 C4.02	UTILITY PROFILES UTILITY PROFILES	PLUMBING P0.00	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX	tion	
C5.01 C5.02	DETAILS DETAILS	P0.02 P3.01	PLUMBING SCHEDULES PLUMBING WASTE & VENT - UNDERGROUND PLAN	ions	
C5.03 C5.04	DETAILS RAMP AND RETAINING WALL DETAILS	P3.02 P4.01	PLUMBING WASTE & VENT PLAN - FIRST FLOOR PLUMBING DOMESTIC WATER & GAS PLAN - FIRST FLOOR		
C10.1	COVER SHEET	P7.00	PLUMBING DETAILS		
C10.2 C11.1	EXISTING CONDITIONS AND REMOVAL PLAN	MECHANICAL		RAW	
C11.2 C12.1	EROSION CONTROL PLAN UTILITY PLAN AND PROFILE	M0.00 M0.01	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX MECHANICAL LEGEND		
C13.1 C13.2	DETAILS DETAILS	M0.02 M0.03	MECHANICAL SCHEDULES MECHANICAL SCHEDULES	Date	
C13.3	DETAILS TRAFFIC CONTROL PLAN	M1.01 M1.02	MECHANICAL HVAC - FIRST FLOOR PLAN		
		M1.02 M2.00	MECHANICAL DETAILS	#	
LI1.01	LANDSCAPE IRRIGATION PLAN	ELECTRICAL			
LI2.01 LI2.02	IRRIGATION DETAILS	E0.00	ELECTRICAL LEGEND		
LP3.01 LP3.02	LANDSCAPE PLANTING PLAN PLANTING DETAILS	E1.01 E1.02	ELECTRICAL SITE PLAN ELECTRICAL LIGHTING SITE PLAN		
RCHITECT	JRAL	E1.03 E2.00	PHOTOMETRIC SITE PLAN LUMINAIRE SCHEDULE		
A1.01	SITE PLAN SITE DETAILS	E2.01 E3.01	LIGHTING CONTROLS SCHEDULE		
A2.00	ASSEMBLY TYPES	E4.01	ELECTRICAL EVENTION ELECTRICAL SYSTEM PLAN		
A2.10 A2.11	DIMENSION PLAN	E6.00	ELECTRICAL STSTEM PLAN ELECTRICAL ONE LINE DIAGRAM, PANEL, HVAC SCHEDULES		ET AS
A2.20 A3.01	EXTERIOR ELEVATIONS	E7.00	ELECTRICAL DETAILS	─ ₩	ADR.
A3.02 A4.01	EXTERIOR ELEVATIONS BUILDING SECTIONS			SI SI	
A4.02 A4.11	BUILDING SECTIONS WALL SECTIONS			AS	, oi
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A5.01 A5.02	INTERIOR ELEVATIONS			IAI	0.
A6.10 A7.01	REFLECTED CEILING PLAN         DOOR AND WINDOW SCHEDULES			2	
A7.30 A7.31	OPENING DETAILS OPENING DETAILS				
A8.10 A8.30	EXTERIOR DETAILS ROOF DETAILS				
A8.50	INTERIOR DETAILS				
A9.01					
A9.70	ENLARGED RESTROOM PLANS AND ELEVATIONS				
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CIVIL		\$3.01 \$3.02	SHEAR WALL PLAN SHEAR WALL DETAILS	<u>.</u>	<b>`</b>		
C1.01 C1.02	EXISTING CONDITIONS AND REMOVAL PLAN EROSION CONTROL PLAN (ESCP)	S5.01 S6.01	STRUCTURAL DETAILS - FOUNDATION STRUCTURAL DETAILS - FRAMING				
C2.01	GRADING AND DRAINAGE PLAN	\$6.02	STRUCTURAL DETAILS - FRAMING				
C4.01		PLUMBING			U		
C4.02 C5.01	DETAILS	P0.00 P0.02	PLUMBING SCHEDULES	SNO	criptic		
C5.02 C5.03	DETAILS DETAILS	P3.01 P3.02	PLUMBING WASTE & VENT - UNDERGROUND PLAN PLUMBING WASTE & VENT PLAN - FIRST FLOOR		Desc		
C5.04	RAMP AND RETAINING WALL DETAILS	P4.01 P7.00	PLUMBING DOMESTIC WATER & GAS PLAN - FIRST FLOOR	G RE			
C10.2	CONSTRUCTION NOTES			AWIN			
C11.1 C11.2	EROSION CONTROL PLAN	MECHANICAL M0.00	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX	DR			
C12.1 C13.1	UTILITY PLAN AND PROFILE DETAILS	M0.01 M0.02	MECHANICAL LEGEND MECHANICAL SCHEDULES		e		
C13.2 C13.3	DETAILS DETAILS	M0.03 M1.01	MECHANICAL SCHEDULES MECHANICAL HVAC - FIRST FLOOR PLAN		La		
C14.1	TRAFFIC CONTROL PLAN	M1.02	MECHANICAL HVAC - ROOF PLAN				
LANDSCAPE			MECHANICAL DETAILS				
LI1.01 LI2.01	IRRIGATION DETAILS	ELECTRICAL E0.00	GENERAL NOTES, ABBREVIATIONS & SHEET INDEX				
LI2.02 LP3.01	IRRIGATION DETAILS LANDSCAPE PLANTING PLAN	E0.01 E1.01	ELECTRICAL LEGEND ELECTRICAL SITE PLAN				
LP3.02	PLANTING DETAILS	E1.02 E1.03	ELECTRICAL LIGHTING SITE PLAN PHOTOMETRIC SITE PLAN				
ARCHITECT		E2.00					
A1.01 A1.05	SITE DETAILS	E2.01 E3.01	ELECTRICAL LIGHTING PLAN				
A2.00 A2.10	ASSEMBLY TYPES FLOOR PLAN	E4.01 E5.01	ELECTRICAL POWER PLAN ELECTRICAL SYSTEM PLAN		J		
A2.11 A2.20	DIMENSION PLAN ROOF PLAN	E6.00 E7.00	ELECTRICAL ONE LINE DIAGRAM, PANEL, HVAC SCHEDULES ELECTRICAL DETAILS			RAS	Ē
A3.01	EXTERIOR ELEVATIONS					ADF	S
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A4.02 A4.11	WALL SECTIONS				Ś	o ≿	%
A4.12 A5.01	WALL SECTIONS INTERIOR ELEVATIONS				Ś	CIJ	06
A5.02 A6.10	INTERIOR ELEVATIONS REFLECTED CEILING PLAN				[ 5		
A7.01	DOOR AND WINDOW SCHEDULES				-		
A7.30	OPENING DETAILS						
A8.10 A8.30	ROOF DETAILS						
A8.50 A8.51	INTERIOR DETAILS INTERIOR DETAILS						
A9.01 A9.70	FINISH SCHEDULE / PLAN ENLARGED RESTROOM PLANS AND FI EVATIONS						
				Drawing Title:	PROJECT INFORMATION	Date : Drawn By : EN EN	Revised : Project No. 022044.000
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				BLR	3 ARCH	ITECTS, P.8	S.

MAX. FLOOR AREA PER OCCUPANT (OSSC TABLE 1004.5)							
FUI	NCTION OF SPACE	OCCUP LOAI FACTO	ANT ) )R	GROSS OR NET		Notes	-
CCESS REAS, QUIPM	SORY STORAGE MECHANICAL IENT	300 SF		GROSS			_
SSEMI	BLY: WITHOUT FIXED CONCENTRATED	7 SF		NET			
USINE	SS AREAS	150 SF		GROSS			]
ITCHE	NS, COMMERCIAL	200 SF		GROSS			1
RESIDENTIAL 2		200 SF		GROSS	Dorm I Load II On Nui Provie	ROOM OCCUPANT NCREASED BASED MBER OF BEDS DED.	
	SIGN SCHEDULE						
TAG	TYPE		DE	SCRIPTION		NOTES	]
SP-1	EXIT SIGN		RR	E-655		SN-1, SN-3, SN-4	1
SP-2	OCCUPANT LOAD	NH		EP-8249		SN-2, SN-3	
SP-3 WOMEN'S RESTROOM		RR	E-130		SN-2, SN-3		

RRE-14824

RRE-145

RRE-14822

SN-2, SN-3

SN-2, SN-3

SN-2, SN-3

SP = SIGN PANEL

<u>GENERAL NOTES</u>

- A. SIGNS TO PROVIDE 3/4" RAISED COPY ACCOMPANIED BY GRADE 2 BRAILLE PER ICC A117.2 SECTION 703. B. ALL SIGN PANEL SYMBOLS BASED ON BEST SIGNS POPULAR CHOICE MODEL NUMBERS
- NOTES:

SP-4 WOMEN'S SHOWER

SP-5 MEN'S RESTROOM

SP-6 MEN'S SHOWER

- INSTALL SIGNAGE ON WALL ADJACENT TO LATCH SIDE OF DOOR, 6" MIN. DISTANCE FROM DOOR FRAME
- SN-2 INSTALL SIGNAGE ON WALL ADJACENT TO FRAMED OPENING, 6" MIN. DISTANCE FROM OPENING
- SN-3 60" A.F.F. TO BASELINE OF TOP ROW OF TEXT
- SN-4 PROVIDE ADDITIONAL LOW-LEVEL INTERNALLY ILLIUMINATE EXIT SIGNS AT R-1 GUESTROOMS PER OSSC 1013.2. EXCLUDES SLEEPING ROOM #108.



## CODE PLAN LEGEND



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F.E

ROOM NAME

123 SF 🗲

OCC: 1-

 $(\#) \rightarrow$ 

DF

FACP

KNOX

ADA

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1

## **B BUSINESS OCCUPANCY R-1 RESIDENTIAL OCCUPANCY**

A-2 ASSEMBLY OCCUPANCY

**1 HOUR FIRE PARTITION** 

- S-1 MODERATE HAZARD STORAGE OCCUPANCY
- ILLUMINATED EXIT LIGHT, DIRECTIONAL ARROWS AS INDICATED, SHADED AREAS DENOTE FACES

#### **TYPE 2A FIRE EXTINGUISHER IN** SEMI-RECESSED CABINET

_	AREA
	ROOM #
	NUMBER OF OCCUPANTS

OCCUPANT LOAD EXITING SPACE

## BUILDING EXIT

- PROVIDED EGRESS WIDTH (INCHES) REQ'D EGRESS WIDTH IN INCHES, 36 MIN - EXIT OCCUPANT LOAD
- DRINKING FOUNTAIN FIRE ALARM CONTROL PANEL EMERGENCY KNOX BOX

#### HC AUTOMATIC DOOR OPERATION & ACTUATOR BUTTON

## EGRESS TRAVEL LEGEND

- COMMON PATH OF EGRESS TRAVEL DISTANCE TO POINT AT WHICH A CHOICE OF 2 EXITS ARE AVAILABLE

#### - TRAVEL DISTANCE TO EXIT ACCESS

- EGRESS PATH POINT AT WHICH A CHOICE OF 2 EXITS BECOMES AVAILABLE
- COMMON PATH OF EGRESS TRAVEL - TOTAL TRAVEL DISTANCE TO EXIT ACCESS



- CAFETERIA OR DINING FACILITY, INCLUDES ASSOCIATED KITCHEN SECTION 304 OCCUPANCY GROUP B OFFICES, SERVICE-TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS.
- SECTION 310 OCCUPANCY GROUP R-1 BOARDING HOUSE (TRANSIENT) CONTAINING SLEEPING UNITS WHERE THE OCCUPANTS ARE TRANSIENT IN NATURE
- SECTION 311.2 OCCUPANCY GROUP S-1 MODERATE-HAZARD STORAGE USE

#### CHAPTER 4 - SPECIAL REQUIREMENTS BASED ON USE & OCCUPANCY SECTION 420 SPECIAL REQUIREMENTS GROUP R-1

- SECTION 420.2 SEPARATION WALLS WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS PER SECTION 708 FIRE PARTITIONS. 1-HR FIRE PARTITIONS PROVIDED, SEE CODE PLAN AND ASSEMBLIES.
- SECTION 420.4 AUTOMATIC SPRINKLER SYSTEM GROUP R OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.8. AUTOMATIC SPRINKLER SYSTEM PROVIDED

## SECTION 420.5 FIRE ALARM & SMOKE ALARMS

FIRE ALARM SYSTEMS AND SMOKE ALARM SYSTEMS SHALL BE PROVIDED IN GROUP R-1 OCCUPANCY PER SECTIONS 907.2.6, 907.2.8, AND 907.2.9 FIRE AND SMOKE ALARMS PROVIDED

#### CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS TABLES 504.3, 504.4, 506.2 ALLOWABLE HEIGHT AND BUILDING AREAS

- GROUP A-2, CONSTRUCTION TYPE VB, S1 SPRINKLERS ALLOWED:
  - 2-STORIES 60 FOOT HEIGHT
  - 24,000 SQ FT
- NO AREA MODIFICATIONS UTILIZED GROUP B, CONSTRUCTION TYPE VB, S1 SPRINKLERS
- 2-STORIES 60 FOOT HEIGHT
- 36,000 SQ FT
- NO AREA MODIFICATIONS UTILIZED GROUP R-1, CONSTRUCTION TYPE VB, S13R SPRINKLERS \_OWED:
- 2-STORIES
- 40 FOOT HEIGHT 7,000 SQ FT NO AREA MODIFICATIONS UTILIZED
- GROUP S, CONSTRUCTION TYPE VB, S1 SPRINKLERS
- 2-STORIES 60 FOOT HEIGHT 36,000 SQ FT
- NO AREA MODIFICATIONS UTILIZED
- ACTUAL: 1-STORY
- 22 FOOT HEIGHT GROUND FLOOR: 3,760 SQ FT TOTAL - COMPLIES
- SECTION 508.3 NON SEPARATED OCCUPANCIES NONSEPARATED OCCUPANCY APPROACH USED - ALLOWABLE BUILDING AREA, HEIGHT, AND NUMBER OF STORIES BASED ON MOST

# RESTRICTIVE OCCUPANCY: R-1

#### **CHAPTER 6 - TYPES OF CONSTRUCTION** ONSTRUCTION TYPE: TYPE VB

STRUCTURAL FRAME: 0-HR BEARING WALLS: NON-BEARING WALLS: 0-HR FLOOR CONSTRUCTION: 0-HR ROOF CONSTRUCTION: 0-HR

TABLE 602 EXTERIOR WALLS FIRE SEPARATION DISTANCE 10 FOOT & GREATER: 0-HR COMPLIES - NO FIRE SEPARATION LESS THAN 10 FT

#### **CHAPTER 7 - FIRE & SMOKE PROTECTION FEATURES** <u>SECTION 705.8</u> ALLOWABLE AREA OF OPENINGS ABLE 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS COMPLIES - FIRE SEPARATION DISTANCE GREATER THAN 30 FEET PROVIDED, NO LIMIT TO OPENINGS

SECTION 708.3 FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1-HOUR. COMPLIES - 1-HOUR PARTITIONS PROVIDED

## ATTACHED TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, DECK, OR SLAB ABOVE. DECK

TABLE 716.1(2) FIRE DOOR PROTECTION RATINGS FIRE PARTITIONS: OTHER PARTITIONS, 1-HOUR - DOOR MINIMUM 3/4 HOUR COMPLIES - 3/4 HOUR DOORS PROVIDED, SEE DOOR SCHEDULE

## CHAPTER 8 - INTERIOR FINISHES TABLE 803.13 INTERIOR WALL AND CEILING FINISHES

GROUP R-1 WITH NFPA 13R SPRINKLERS EXIT PASSAGEWAYS: CLASS B CORRIDORS: CLASS C ROOMS AND ENCLOSED SPACES: CLASS C COMPLIES - FINISHES PROVIDED ACCORDINGLY

# **CHAPTER 9 - FIRE PROTECTION & LIFE SAFETY SYSTEMS** WITH A GROUP R FIRE AREA.

PROVIDED: NFPA 13R (903.3.1.2 SYSTEM) W/ QUICK RESPONSE -or- RESIDENTIAL HEADS (903.3.2)

## SECTION 903.3.1.2.3 ATTICS

2. WHERE FUEL-FIRED EQUIPMENT IS INSTALLED IN AN ABOVE THE EQUIPMENT.

### 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)

#### ENERGY CODE COMPLIANCE METHOD: 4.2.1.1 NEW BUILDING NEW BUILDING COMPLYING WITH PRESCRIPTIVE PROVISIONS OF: A. SECTION 5, "BUILDING ENVELOPE"; SECTION 6, "HEATING, VENTILATING, AND AIR CONDITION-ING"; SECTION 7, "SERVICE WATER HEATING"; SECTION 8, "POWER"; SECTION 9, "LIGHTING"; AND SECTION 10, "OTHER EQUIPMENT,"

5.4.3.1.2 CONTINUOUS AIR BARRIER AND INSTALLATION CONTINUOUS AIR BARRIER DESIGNED AND IDENTIFIED ON CONSTRUCTION DOCUMENTS.

5.4.3.3 VESTIBULES VESTIBULE PROVIDED, SHALL NOT EXCEED 2% OF GROSS CONDITIONED FLOOR AREA - COMPLIES: VESTIBULE IS 1.8% OF GROSS FLOOR AREA

### TABLE 5.5-5 BUILDING ENVELOPE REQUIREMENTS: NONRESIDENTIAL DESCHUTES COUNTY, OR - CLIMATE ZONE: 5B

0.50

OPAQUE ELEMENTS	REQUIRED	U-VALUE (R)	PROVIDED	J-VALUE (R)	
ROOFS					
INSULATION ABOVE ROOF DECK	0.032 (F	R-30 CI)	N/A		
ATTIC AND OTHER	0.021	(R-49)	0.021	(R-49)	
WALLS					
WOOD FRAMED	U-0.051 (R-13 R-19 +	8 + R-7.5 CI or R-5 CI)	U-0.051 (R-19 + R-5 CI)		
MASS	0.090 (R	-11.4 CI)	N	/A	
BELOW-GRADE	C-0.119 (	(R-7.5 CI)	N/A		
FLOORS					
WOOD FRAMED	0.033	(R-30)	N/A		
SLAB-ON-GRADE FLOORS					
UNHEATED SLABS	F VALUE: 0.52 (R-15 FOR 24")		F VALUE: 0.52 (R-15 FOR 24")		
OPAQUE DOORS					
SWINGING	0.37	MIN	0.37		
NON-SWINGING	0.31 MIN		N/A		
FENESTRATION	MAX. U-	FACTOR	MAX. SH	IGC	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
FIXED	0.36	0.36	0.38	0.38	
OPERABLE	0.45	0.35	0.33	0.33	
ENTRANCE DOORS	0.63 0.63 0.33		0.33		

SKYLIGHTS 0.50

AND SKYLIGHTS AS APPLICABLE.

ABLE 601 FIRE-RESISTANCE RATING OF BUILDING ELEMENTS 0-HR

SECTION 708.4 FIRE PARTITIONS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW AND BE SECURELY

COMPLIES - PARTITIONS EXTEND FROM SLAB TO UNDERSIDE OF ROOF

SECTION 903.2.8 AUTOMATIC SPRINKLER SYSTEM GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS

#### ATTIC PROTECTION SHALL BE PROVIDED AS FOLLOWS:

UNSPRINKLERED ATTIC, NOT FEWER THAN ONE QUICK-RESPONSE INTERMEDIATE TEMPERATURE SPRINKLER SHALL BE INSTALLED

#### CHAPTER 10 - MEANS OF EGRESS TION 1005.1 MEANS OF EGRESS SIZING BASED ON OCCUPANT LOAD OTHER EGRESS COMPONENTS: 0.15-IN. PER OCCUPANT, SPRINKLERED TABLE 1006.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY OCCUPANCY GROUP A, SPRINKLERED: MAX. OCCUPANT LOAD OF SPACE: 49 OCCUPANTS MAX. COMMON PATH OF EGRESS TRAVEL: 75 FEET OCCUPANCY GROUP B, SPRINKLERED: MAX. OCCUPANT LOAD OF SPACE: 49 OCCUPANTS MAX. COMMON PATH OF EGRESS TRAVEL: 100 FEET OCCUPANCY GROUP R-1, SPRINKLERED: MAX. OCCUPANT LOAD OF SPACE: 10 OCCUPANTS MAX. COMMON PATH OF EGRESS TRAVEL: 75 FEET OCCUPANCY GROUP S, SPRINKLERED: MAX. OCCUPANT LOAD OF SPACE: 29 OCCUPANTS MAX. COMMON PATH OF EGRESS TRAVEL: 100 FEET COMPLIES - MAXIMUM COMMON PATH = 60 FEET TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE OCCUPANCY GROUP A, R, S-1 SPRINKLERED: 250 FEET OCCUPANCY GROUP B SPRINKLERED: 300 FEET COMPLIES - MAXIMUM EXIT ACCESS TRAVEL DISTANCE = 80 FEET CHAPTER 29 - PLUMBING SYSTEMS

### TABLE 2902.1 MINIMUM PLUMBING FIXTURES

GROUP A OCCUPANTS ARE USING R-1 FACILITIES 1 DRINKING FOUNTAIN (1 PROVIDED)

- GROUP B, S
- 1 WATER CLOSET & LAVATORY (1 UNISEX RESTROOM PROVIDED) GROUP R BOARDING HOUSE, TRANSIENT
- 1 WATER CLOSET PER SLEEPING UNIT (4 PROVIDED) • 1 LAVATORY PER SLEEPING UNIT (4 PROVIDED)
- 1 SHOWER PER SLEEPING UNIT (2 PROVIDED)

# MADRAS DEVELOPMENT CODE (MDC)

DESIGNATION ZONING DESIGNATION: CORRIDOR COMMERCIAL (C-1 )

RESIDENTIAL, CONDITIONAL USE

EVELOPMENT STANDARDS (MDC 18.15.070)
LOT SIZE REQUIREMENTS: NONE
MINIMUM SETBACK: REQUIRED: NONE, EXCEPT 10 FEET MIN. WHERE ADJACENT TO RESIDENTIALLY ZONED PARCEL
PROVIDED: NORTH: SEE SITE PLAN SOUTH: SEE SITE PLAN EAST: SEE SITE PLAN WEST: SEE SITE PLAN
MAXIMUM SETBACK: REQUIRED: NONE
MAX. BUILDING HEIGHT: ALLOWED: 45 FEET ACTUAL: 24 FEET
OFF-STREET PARKING (MDC TABLE 18.25.050-1)
USE REQ'D
OFFICE2.5 SPACES/1000SF (270SF)= 1 SPACETRANSIENT0.5/BED (27 BEDS)= 14 SPACESTOTAL = 15 SPACESACTUAL = 26 SPACES
IKE PARKING (MDC 18.25.070) REQUIRED: 1 SPACE / 10 VEHICLE SPACES = 3 BIKE SPACES ACTUAL: 6 BIKE SPACES
ISION CLEARANCE (MDC 18.25.090)
REQUIRED: 15 FEET MIN. AT INTERSECTIONS OF COMMERCIAL ACCESS <b>PROVIDED</b>

MINIMUM LANDSCAPE AREA: REQUIRED: 15%

ACTUAL: SEE LANDSCAPE

LANDSCAPE LOCATION: REQUIRED: 50% OF REQUIRED LANDSCAPING MUST BE LOCATED IN THE FRONT YARD SETBACK

#### PARKING LOT LANDSCAPING (MDC 18.25.170 (4)(d)) REQUIRED

QUIRED:
7% OF PARKING AREA MUST BE LANDSCAPED
1 TREE / 10 PARKING SPACES TO ACHIEVE CANOPY EFFECT
OVER 50% OF THE LOT AREA
3 FT MIN. LANDSCAPE BUFFER BETWEEN PARKING & LOT LIN

NDSCAPE BUFFER BETWEEN PARKING & LOT LINE 5 FT MIN. LANDSCAPE BUFFER BETWEEN PARKING & RESIDENTIAL LOT



A0.03

BLRB ARCHITECTS, P.S.

\*REFER TO SPECIFICATIONS FOR BASIS OF DESIGN DOORS, WINDOWS,

0.40

MIN. SHGC = 1.10 FOR ALL TYPES

0.33

0.40

OFFICE	2.5 SPACES/1000SF (27)	0SF) = 1 SPACE
TRANSIENT	0.5/BED (27 BEDS)	= 14 SPAC
		TOTAL = 15 SPAC
	4	CTUAL = 26 SPAC
<u>E PARKING (MD(</u> REQUIRED: 1 SI <b>ACTUAL: 6 BIKE</b>	<u>C 18.25.070)</u> PACE / 10 VEHICLE SPACES <b>E SPACES</b>	= 3 BIKE SPACES
ON CLEARANCE REQUIRED: 15 FEET MIN PROVIDED	<u>E (MDC 18.25.090)</u> N. AT INTERSECTIONS OF C	OMMERCIAL ACCI
DSCAPING STA	NDARDS (MDC 18.25.170)	





8 MISCELLANEOUS WALL MOUNTING HEIGHTS / 1/4" = 1'-0"



5 CODE - ACCESSIBILE DISPENSER OUTLET LOCATIONS









+---

MANEUVER CLEARANCES AT MANUAL SWING DOORS AND

(A) FRONT APPROACHES

FOR SWINGING DOORS

- SEAT FIN. FLR. SEAT WALL

9" MIN

11

## ACCESSIBILITY CODE LEGEND

	PROVIDE BLOCKING IN FRAMED WALLS TO 6" MIN. BEYOND EDGES OF ITEM MOUNTED (TYP)
	DIRECTION OF TRAVEL OR APPROACH
	BOUNDARY OF CLEAR FLOOR SPACE OR MANEUVERING CLEARANCE
	WALL, FLOOR, CEILING, OR OTHER ELEMENT CUT IN SECTION OR PLAN
C	

## ACCESSIBILITY CODE NOTES

1. THE INFORMATION ON THIS SHEET IS PROVIDED AS A MEANS TO GRAPHICALLY IDENTIFY THE MOST COMMON DIMENSIONS, CLEARANCES, AND MOUNTING HEIGHTS REQUIRED. IT IS NOT FEASIBLE FOR ALL OF THE ADDITIONAL GRAPHIC AND NON-GRAPHIC INFORMATION INCLUDE IN ANSI ICC A11.7.1-2009: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, TO BE INCLUDED ON THIS SHEET. THEREFORE, THE CONTRACTOR SHALL REFER TO ANSI A117.1-2009 AND BE RESPONSIBLE FOR ALL REQUIRED INFORMATION INCLUDED THEREIN.

2. VERIFY ACCESSORY SIZE WITH MANUFACTURER TO ENSURE CONFORMANCE WITH ADA MOUNTING HEIGHTS. COORDINATE THE INSTALLATION OF ALL PLUMBING FIXTURES AND ACCESSORIES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

3. DIMENSIONS TO TOILET ROOM ACCESSORIES ARE TO THE HIGHEST PORTION OF THE OPENING OR OPERATING DEVICE. 4. PLACE TELEPHONE DEVICES AT 44" ABOVE FINISH FLOOR

5. PROVIDE BLOCKING WITHIN WALL AS REQUIRED FOR MOUNTING FIXTURES.

6. PROVIDE GYPSUM BOARD WRAP BEHIND FIXTURES AT WALLS DESIGNATED ON FLOOR PLANS AS FIRE-RATED, SEE WALL

7. EDGE OF ACCESSIBLE SHOWER UNITS SHALL BE FLUSH WITH THE FINISHED SURFACE OF ADJACENT FLOORING.

8. THIS DRAWING ONLY SHOWS WALL-MOUNTED TOILET FIXTURES. SUBSTITUTE FLOOR-MOUNTED TOILET FIXTURES WHERE INDICATED IN BATHROOM ELEVATIONS.

\_\_\_\_

NOTE: X=36 INCHES MIN, IF Y=60 INCHES

(B)

X=42 INCHES MIN, IF Y=54 INCHES

HINGE SIDE APPROACHES

FOR SWINGING DOORS



BLRB ARCHITECTS, P.S.

archite

Ω

8



# MADRAS HOMELESS SHELTER PUBLIC INFRASTRUCTURE PLANS

4

# AUGUST, 2022

3

3

LOCATED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 02 TOWNSHIP 11 SOUTH, RANGE 13 EAST, WILLAMETTE MERIDIAN CITY OF MADRAS, JEFFERSON COUNTY, OREGON

SCHEDULE OF CITY OF MADRAS: 2" WATER LINE - 40 LF 2" WATER METER BO 4" SANITARY SEWER 12" CONCRETE CURB CONCRETE SIDEWAL HMAC PAVEMENT - 12

5

5

0	LEGEND							APPROVALS
	EXISTING PI	ROPOSE	D		EXISTING	PROPOSE	D	
1.2	0	0	CURB INLET CATCH	BASIN	$\otimes$		WATER MANHOLE	
940	СВ		STANDARD CATCH	BASIN	$\bigcirc^{WM}$		WATER METER	CITY OF MADRAS ENGINEER NOTE: SIGNATURE DOES NO
	D	Ô	SEDIMENATION MA	NHOLE	$\otimes$	×	WATER VALVE	
	DW	$\bigcirc$	DRYWELL ASSEMB	LY	õ	Ж,	FIRE HYDRANT ASSEMBLY	
		_	DRYWELL W/ SLOT	TED LID	MPIV		POST INDICATOR VALVE (PIV)	MADRAS FIRE DEPARTMENT
REET	$\ge$	$\boxtimes$	ELECTRICAL TRAN	SFORMER	FDC	Ċ	FIRE DEPARTMENT CONNECTION (FDC)	
	EL		ELECTRICAL SERV	CE	S	S	SANITARY SEWER MANHOLE	PACIFIC POWER
1	<b>\$</b>		LIGHT		Осо	•	SANITARY SEWER CLEANOUT	
		۹	STREET LIGHT		<u>(59</u>		SANITARY SEWER SERVICE	
	• ←		GUY POLE / ANCHO	DR	$\otimes$		PRESSURE SEWER VALVE	BEND BROADBAND:
	-0-	- <b>O</b> -	UTILITY POLE				STREET SIGN	
	T		TELEPHONE MANH	OLE			MAILBOX	
	Ц	Ħ	TELEPHONE RISER		•		FOUND SURVEY MONUMENT	LUMEN.
	$\bigcirc$		CABLE TV SERVICE	/ RISER	0		DIMENSION POINT	
-1	G		GAS SERVICE		for the second s		DECIDUOUS TREE (SIZE AS NOTED)	CASCADE NATURAL GAS:
/EMEN	Осм		GAS METER					
	$ ightarrow ^{\mathrm{GV}}$		GAS VALVE		Ref.		JUNIPER TREE (SIZE AS NOTED)	
	$ ightarrow^{\mathrm{IRR}}$		IRRIGATION VALVE					
							FONDERUSA FINE TREE (SIZE AS NOTED)	
	EXISTING		PROPOSED	PROJECT BOUNDA RIGHT-OF-WAY LIN TAXLOT LINE EASEMENT (AS NO CENTERLINE (AS N CONCRETE CURB UNDERGROUND ST UNDERGROUND ST UNDERGROUND M UNDERGROUND FE UNDERGROUND TE UNDERGROUND TE UNDERGROUND ST UNDERGROUND ST	RY E TED) OTED) TORM DRAIN LINE ( ANITARY SEWER LI ATER LINE (SIZE A DWER LINE (SIZE	(SIZE AS NO NE (SIZE A S NOTED)	DTED) S NOTED)	C10.2 CONSTRUCT C11.1 EXISTING CC C11.2 EROSION CO C12.1 UTILITY PLAN C13.1 DETAILS C13.2 DETAILS C13.3 DETAILS C14.1 TRAFFIC COI
	- 3431			HMAC PAVEMENT				
				PCC PAVEMENT				

	6		П	
C 12 M/	OWNER CITY OF MADRAS 25 SW E STREET ADRAS, OR 97741			CALL AND CALL
SI M/ TAXLO F IMPRC S ASSEMB LINE - 17 L B - 40 LF± LK - 300 SF= 252 SF±	TE LOCATION         61 NW OAK ST.         ADRAS, OR 97741         T(S): 11-13-02DD-00502         OVEMENTS         ALY - 1         .F±         ±		A	AS HOMELESS SHELTER INFRASTRUCTURE PLANS COVER SHEET EFFERSON COUNTY, OREGON
R: OT GRANT /	APPROVAL TO COMMENCE CONSTRUCTION.	DATE	В	PUBLIC
T:		DATE		
		DATE		REVISIONS:
ET TION NO ONDITIO ONTROI N & PRO	OTES ONS & REMOVAL PLAN L (ESCP) PLAN OFILE	DATE	С	CIVIL ENGINEERING   SURVEYING   PLANNING 62930 O.B. RILEY ROAD, STE. 100, BEND, OR 97703 (541)389-9351 WWW.HWA-INC.ORG
NTROL	PLAN		D	DESIGNED BY: MWB DRAWN BY: MWB DRAWN BY: MWB CHECKED BY: GMH SCALE: AS NOTED FILE: 220106 CD.dwg TILE: 220106 CD.dwg SHEET:
	6			UIU.I HWA # 220106 COM #:
1	O		1	

	GENERAL	GRADING AN
	<ol> <li>NO CONSTRUCTION SHALL BE STARTED WITHOUT A NOTICE TO PROCEED BY THE CITY ENGINEERING DEPARTMENT. THE CITY ENGINEERING DEPARTMENT AND THE DESIGN ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF</li> </ol>	1. THE ENGINEER O OREGON STORM
	REJECTED.	2. HOLD A PRE-CON EROSION AND SE
	2. CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING BUT NOT LIMITED TO, ALL DIMENSIONS, GRADES, ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS, AND WITH THE WORK DESCRIBED ON THE ENGINEER'S DRAWINGS, ANY DISCREPANCIES OF LINEXPECTED CONDITIONS THAT AFFECT OF CHANGE THE WORK DESCRIBED IN THE CONTRACT	3. THE EROSION AN
	DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR SHALL NOT PROCEED WITH ANY OF THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEN IT IS UNDERSTOOD THAT THE CONTRACTOR IS CHOOSING TO PROCEED AT THE CONTRACTOR'S OWN RISK AND SHALL INCUR	4. THE ESC MEASUF CONSTRUCTIONS FEDERAL EROSIC
A	ALL COSTS, IF ANY TO RESOLVE THE ISSUES TO THE SATISFACTION OF THE ENGINEER. 3. A CITY INSPECTOR ACTING ON BEHALF OF THE CITY MAY REQUIRE REVISIONS IN PLANS TO SOLVE UNFORESEEN PROBLEMS THAT MAY	5. THE FOLLOWING SEDIMENTATION
	4. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS, AND ALL WORK	a. FENCE OR FL
	<ul><li>SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.</li><li>5. EXCAVATORS SHALL COMPLY WITH THE PROVISIONS OF OAR 952-001-0090.</li></ul>	b. INSTALL GRA SEDIMENT OI
	6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332-2344 AT LEAST 48 BUSINESS-DAY HOURS PRIOR TO THE START OF CONSTRUCTION FOR THE LOCATION OF POWER, GAS, CABLE TV AND TELEPHONE	c. CLEAR AND C
	FOR THE LOCATION OF UNDERGROUND FACILITIES.	e. CLEAR, GRUE
	LOCATIONS AND ELEVATIONS WAS AUTHORIZED BY THE OWNER. THE CONTRACTOR HAS THE TOTAL RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND TO NOTIFY THE UTILITY COMPANIES WHEN WORKING IN THEIR PROXIMITY. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH	f. CLEAR, GRUE g. TEMPORARIL
	952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)232-2987. 8 GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT U.B.C. THE 2019 OREGON STRUCTURAL SPECIALTY CODE, AND THE CITY	SUBSTANTIAI h. CONSTRUCT
	OF BEND CODE TITLE 16.	
	<ol> <li>ALL FINAL COT AND FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO TVERHICAL UNLESS OTHERWISE APPROVED.</li> <li>10. ALL UNSUITABLE SOILS MATERIALS, RUBBISH AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY.</li> </ol>	j. REMOVE TEM LAND-DISTUF ESC PLAN(S)
	11. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONSTRUCTION.	6. RETAIN THE DUFF DURATION PRACT
В	12. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. THE CITY AND DESCHUTES COUNTY AND THEIR OFFICIALS, THE ENGINEER, AND THE OWNER SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.	7. INSPECT ALL ROA SEDIMENT THAT I USED TO CLEAN U
	13. MATERIAL QUANTITIES USED, NOTED, OR PROVIDED IN A SEPARATE ITEMIZED QUANTITY TAKE-OFF ARE AN ENGINEER'S OPINION OF PROBABLE MATERIAL REQUIREMENTS, AND IS AN ESTIMATE ONLY. CONTRACTORS HAVE THE SOLE RESPONSIBILITY OF MAKING THEIR OWN QUANTITY TAKE-OFF AND COST ESTIMATE	8. COVER AND SECU
	14. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE PERFORMED BY A CITY APPROVED CONTRACTOR (INCLUDING SUBCONTRACTORS).	9. RESTORE CONST DUST FROM CON
	15. UTILITIES SHALL HAVE THE RIGHT TO INSTALL, MAINTAIN, AND OPERATE THEIR EQUIPMENT ABOVE AND BELOW GROUND AND ALL OTHER RELATED FACILITIES WITHIN THE PUBLIC UTILITY EASEMENTS (PUE) IDENTIFIED ON THIS PLAT MAP AS MAY BE NECESSARY OR DESIRABLE IN SERVING THE LOTS IDENTIFIED HEREIN, INCLUDING THE RIGHT OF ACCESS TO SUCH FACILITIES AND THE RIGHT TO	10. STABILIZE EXPOS
	REQUIRE THE REMOVAL OF ANY OBSTRUCTIONS INCLUDING TREES AND VEGETATION THAT MAY BE PLACED WITH IN THE PUE AT THE LOT OWNERS EXPENSE. AT NO TIME MAY ANY PERMANENT STRUCTURES BE PLACED WITHIN THE PUE OR ANY OTHER OBSTRUCTION WHICH INTERFERES WITH THE USE OF THE PUE WITHOUT PRIOR WRITTEN APPROVAL OF THE UTILITIES AND FACILITIES IN THE PUE.	SEASON (OCTOBE
	16. CITY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE APPROVAL OF FACILITIES PROPOSED ON PRIVATE PROPERTY. SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT ARE REQUIRED AND SHALL BE OBTAINED BY THE DEVELOPER FOR FACILITIES	12. KEEP ROADS ADJ
	17. ANY WORK WITHIN EXISTING PUBLIC RIGHT-OF-WAY. 17. ANY WORK WITHIN EXISTING PUBLIC RIGHT-OF-WAY OR DEDICATED CITY EASEMENTS REQUIRES A SEPARATE RIGHT-OF-WAY EXCAVATION PERMIT OBTAINED FROM THE CITY ENGINEERING DIVISION.	13. INSPECT INLETS N DEVICES BEFORE
	18. ALL WATER MAIN CONNECTION TO BE DESIGNED AND CONSTRUCTED WITH CROSS CONNECTION PROTECTION.	14. INSTALL SEDIMEN
	19. CONTRACTOR SHALL OBTAIN HYDRANT METER PERMIT FOR USE OF TESTING WATER MAIN. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED TO THE CITY OF BEND UTILITIES DEPARTMENT.	15. WHENEVER POSS
	20. ALL RESTORATION TO BE COMPLETED AS SOON AS POSSIBLE UPON COMPLETION AND APPROVAL FROM THE INSPECTOR FOR ON-SITE WORK AND UNDERGROUND WORK.	BEFORE GRADING IMPROVEMENTS.
	21. ALL RESTORATION SHALL COMPLY WITH CITY OF MADRAS STANDARDS AND SPECIFICATIONS AND FOLLOW THE BMP PAVING GUIDELINES ESTABLISHED BY STREET DEPARTMENT.	16. STOCKPILE MATE FROM EROSION B
	22. ALL GRADED AND/OR CLEARED AREAS, INCLUDING EXCAVATION AND FILL SLOPES, SHALL BE RE-VEGETATED OR STABILIZED IN ORDER TO REDUCE EROSION, DUST, AND NOXIOUS WEEDS.	17. COVER, CONTAIN ONSITE FROM VA
С	23. PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL PLANS, NOTIFICATION AND APPROVAL IS REQUIRED BY THE CITY OF MADRAS PRIVATE DEVELOPMENT ENGINEERING DEPARTMENT.	18. LOCATE DESIGNA COURSES, AND C
	<ol> <li>24. THESE PLANS WILL EXPIRE ONE YEAR FROM THE "CITY OF MADRAS ENGINEER" SIGNATURE DATE ON THE COVER.</li> <li>25. PRIVATE INSPECTIONS WILL BE REQUIRED PER PART V OF THE CITY OF MADRAS STANDARDS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.</li> </ol>	19. REGULARLY INSP AND REPAIR OF H OR SPILLAGE OF IMMEDIATELY FOI
	TRAFFIC CONTROL NOTES	STREET, GUTTER
	1. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE APPROVED TRAFFIC CONTROL PLAN (TCP) TO PROVIDE SAFE AND EFFICIENT VEHICULAR, BICYCLE AND PEDESTRIAN MOVEMENT IN AND AROUND THE WORK ZONES. CERTIFIED TRAFFIC CONTROL FLAGGERS AND PROFESSIONALS MAY BE REQUIRED PER THE CONDITIONS OF THE PERMIT. THE CITY OF BEND RESERVES THE RIGHT	21. APPLY LANDSCAF APPLICATIONS RA
	<ol> <li>THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS INCLUDING THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK FOR OPERATIONS OF THREE DAYS OR LESS. DATED</li> </ol>	22. INSPECTION A RE MAINTAIN ALL ER
	DECEMBER 2011 AND PREPARED BY ODOT (ORANGE BOOK). 3. UNLESS APPROVED BY THE CITY ENGINEER, ARTERIAL ROADS SHALL HAVE NO LANE RESTRICTIONS FROM 6:30 TO 9:00 AM AND FROM	23. REMOVE TEMPOR AREAS THAT ARE
	3:30 TO 6:30 PM. COLLECTORS AND LOCAL NEIGHBORHOOD MAIN ROUTES SHALL HAVE NO LANE RESTRICTIONS FROM 7:00 AM TO 8:30 AM AND FROM 4:00 PM TO 6:00 PM.	24. KEEP SEDIMENT ( 25. CONTROL FUGITI)
	4. TCP SHALL BE SUBMITTED TO THE CITY OF BEND A MINIMUM OF 14 DAYS PRIOR TO IMPLEMENTATION FOR REVIEW. 48 HOURS PRIOR TO IMPLANTATION THE CITY OF BEND SHALL BE NOTIFIED IN ORDER TO PROVIDE ADEQUATE PUBLIC NOTIFICATION.	SEASON.
		NOT TO BE LOCA A STORMWATER
D		
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### ID ESC NOTES

FRECORD CAN PROVIDE ADDITIONAL BEST MANAGEMENT PRACTICES (BMP) FROM SECTION 9.4.3 IN THE CENTRAL WATER MANUAL (COSM) THAT APPLY TO THE PROJECT.

ISTRUCTION MEETING THAT INCLUDES THE CITY OF MADRAS INSPECTOR, EOR AND CONTRACTOR TO DISCUSS DIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.

ID SEDIMENT CONTROL (ESC) PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK IS OCCURRING. RES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE

S PERIOD, THE MEASURES MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND ON AND SEDIMENT CONTROL REGULATIONS. CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND CONTROL PROBLEMS:

LAG AREAS TO BE PROTECTED OR LEFT UNDISTURBED DURING CONSTRUCTION

AVELED OR PAVED CONSTRUCTION ENTRANCES, EXITS, AND PARKING AREAS TO REDUCE THE TRACKING OF NTO PUBLIC AND PRIVATE ROADS

GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS

IPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING

AND GRADE INDIVIDUAL AND ROUGH GRADE FOR ROADS AND UTILITY LOCATIONS

AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS

LY STABILIZE A LOT OR GROUPS OF LOTS, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, WHERE L CUT OR FILL SLOPES ARE RESULT OF SITE GRADING

ROADS, BUILDINGS, PERMANENT STROMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.)

PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS

MPORARY ESC CONTROLS WHEN PERMANENT STORMWATER FACILITIES HAVE BEEN INSTALLED, ALL RBING ACTIVITIES HAVE CEASED, AND VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED ON THE ACCEPTED

F LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT AND **FICAL** 

ADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. SIGNIFICANT AMOUNTS OF LEAVES THE CONSTRUCTION SITE MUST BE CLEANED UP WITHIN 24 HOURS. VACUUMING OR DRY SWEEPING MUST BE UP RELEASED SEDIMENT AND SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE

URE ALL DUMP TRUCK LOADS LEAVING THE CONSTRUCTION SITE TO MINIMIZE SPILLAGE ON ROADS.

FRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION. CONTROL FUGITIVE ISTRUCTION ACTIVITY.

ED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 CALENDAR DAYS GIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 CALENDAR DAYS DURING THE REGIONAL WET ER 1 THROUGH JUNE 30).

, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR ARE OPERABLE

JACENT TO INLETS CLEAN.

WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. CLEAN OR REMOVE AND REPLACE INLET PROTECTION SIX INCHES OF SEDIMENT CAN ACCUMULATE.

IT CONTROLS ALONG THE SITE PERIMETER ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE BEFORE RTH DISTURBING ACTIVITIES.

SIBLE, CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) 3 BEGINS. THESE FACILITIES SHOULD BE OPERATIONAL BEFORE THE CONSTRUCTION OR IMPERVIOUS SITE

RIALS (SUCH AS TOPSOIL) ONSITE MUST BE KEPT OFF OF ROADWAY AND SIDEWALKS AND SHALL BE PROTECTED Y WIND AND/OR WATER.

AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ANDALISM. MAINTAIN A SUPPLY OF MATERIALS ON HAND TO ADDRESS AND CONTAIN SPILLS.

ATED VEHICLE AND EQUIPMENT SERVICE AREAS, FUEL, AND MATERIALS AWAY FROM DRAINAGE INLETS, WATER CANALS. PROPERLY CONTAIN AREAS USING BERMS, SAND BAGS, OR OTHER BARRIERS.

PECT AND MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LEAKY GASKETS. CONDUCT MAINTENANCE HEAVY EQUIPMENT AND VEHICLES (I.E. OIL CHANGES, FUEL TANK DRAIN DOWN, ETC) THAT MAY RESULT IN DISCHARGE POLLUTANTS USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES LLOWING ANY DISCHARGE OR SPILL INCIDENT, PERFORM REPAIRS ONSITE USING TEMPORARY PLASTIC OR OIL NKETS BENEATH THE VEHICLE.

REA FOR CLEANING PAINTING EQUIPMENT AND TOOLS. NEVER CLEAN BRUSHES OR RINSE CONTAINERS INTO THE , DRAINAGE INLET, OR WATERWAY.

PING OR AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT ATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES.

EGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND OSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS.

RARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE E DISTURBED DURING THE REMOVAL PROCESS.

ON THE PROJECT SITE, TO THE MAXIMUM EXTENT PRACTICAL.

3

IVE DUST FROM CONSTRUCTION ACTIVITY. DUST CONTROL MUST BE CONTINUOUS, PARTICULARLY DURING THE DRY

LOCATION OF A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT. SLURRY PITS ARE TED IN, OR UPSTREAM OF, A SWALE, DRAINAGE AREA, STORMWATER FACILITY, WATER BODY, OR IN AN AREA WHERE FACILITY EXISTS OR IS PROPOSED.

4

## UTILITIES

1. UTILITY CROSSINGS SHALL BE PERPENDICULAR (90 DEGREES) TO THE CITY WATER, STORM, AND SEWER LINES.

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- 2. UTILITY CROSSINGS SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 12 INCHES FROM ALL WATER AND SEWER MAIN LINES. 3. ANY UTILITY THAT IS LOCATED PARALLEL TO A CITY WATER OR SEWER MAIN LINE SHALL MAINTAIN A MINIMUM OF 10-FT OF
- HORIZONTAL SEPARATION.
- SEWER LINES MAY BE INSPECTED BY CLOSED CIRCUIT CAMERA AT THE APPROVAL OF THE CITY ENGINEER.
- 4. THE CITY REQUIRES VISUAL INSPECTION (POTHOLING) OF ALL UTILITY CROSSINGS OF CITY WATER, STORM, AND SEWER LINES. 5. EXCAVATION AND DIRECTIONAL DRILLING REQUIRES POTHOLING PRIOR TO ANY WORK BEING CONDUCTED AND DURING DRILLING
- 6. DIRECTIONAL DRILLING REQUIRES ADVANCED PROFILING OF THE CROSSING BEFORE WORK CAN BE PERMITTED. 7. NO EXCAVATION IS PERMITTED WITHIN 10 FT BEHIND FORCE MAINS, PRESSURE MAINS, FIRE HYDRANT OR WATER MAIN THRUST
- BLOCKS.
- 8. UTILITY CROSSINGS SHALL MAINTAIN 2-FT CLEARANCE HORIZONTALLY FROM CITY UTILITIES SUCH AS MANHOLES, VALVE CANS, INLETS, CATCH BASINS, ETC.
- 9. UTILITY LINES SHALL NOT BE PLACED IN THE ROOT AREAS OF TREES AND SHALL MAINTAIN 5-FT CLEARANCE FROM THE DRIPLINE OF TREES OR AS DIRECTED BY THE CITY ENGINEER. ANY TREES DAMAGED ARE TO BE REPLACED.
- 10. COMPACTION IS REQUIRED AND TESTING SHALL CONFORM TO SECTION 00405.46 (C) OR AT THE DISCRETION OF THE CITY ENGINEER. ALL LIFTS MUST BE MECHANICALLY COMPACTED WITH ADEQUATE COMPACTION EQUIPMENT, WITH A MINIMUM OF 5 PASSES FOR EACH LIFT OR AS DIRECTED BY THE CITY.

#### STREETS

- 1. IF ANY WORK (NEW CONSTRUCTION OR RECONSTRUCTION) IMPACTS A CURB WHERE THERE IS A PEDESTRIAN WALKWAY (E.G. A SIDEWALK OR TRAIL/PATH) INTERSECTING A ROADWAY THEN A NEW RAMP OR REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MUST BE CONSTRUCTED.
- 2. IF ANY NEW WORK INCLUDES RESURFACING THROUGH A STREET LEVEL PEDESTRIAN WALKWAY (E.G. MARKED OR UNMARKED CROSSWALK), EVEN IF THE WORK IS NOT THE FULL WIDTH OF THE ROADWAY, CURB RAMPS MUST BE BUILT OR RECONSTRUCTED ON BOTH ENDS OF THE CROSSWALK.
- 3. IF ANY NEW SIDEWALK WORK CONNECTING TO AN EXISTING NON-COMPLIANT RAMP THAT REQUIRES ANY MODIFICATION TO ANY PORTION OF THE RAMP TO MEET CURRENT SIDEWALK DESIGN STANDARDS, THEN THE ENTIRE RAMP SHALL BE RECONSTRUCTED TO CURRENT STANDARDS.
- 4. IF ANY UTILITY TRENCH WORK IMPACTS A CURB AT A CROSS WALK, WITH OR WITHOUT A RAMP, THE REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MUST BE CONSTRUCTED.
- 5. IF UTILITY TRENCH WORK DOES NOT IMPACT A CURB RAMP BUT IS "LIMITED TO A PORTION OF THE PAVEMENT, INCLUDING A PORTION OF THE CROSS WALK" REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MAY NOT BE REQUIRED (DEPENDENT ON OVERALL PROJECT SCOPE AND REQUIRED PAVEMENT RESTORATION LIMITS).
- ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY THAT DISTURBS A PEDESTRIAN SIDEWALK OR TRAIL REQUIRES THE REPLACEMENT OF THAT FACILITY TO CURRENT CITY AND PROWAG STANDARDS. THIS INCLUDES BUT IS NOT LIMITED TO ALL ADA RAMPS, CONCRETE SIDEWALKS, ASPHALT TRAILS, DRIVEPADS, CROSSWALKS, AND SIGNAGE.
- 7. IF ANY ADA RAMPS ARE IDENTIFIED TO BE CONSTRUCTED, THE CONTRACTOR SHALL CONSTRUCT PERPENDICULAR RAMPS PER CITY STANDARDS. DIAGONAL OR PARALLEL RAMPS SHALL ONLY BE USED IF THERE ARE UNIQUE SITE CONSTRAINTS THAT PROHIBIT CONSTRUCTION OF PERPENDICULAR RAMPS. ALL VARIATIONS FROM PERPENDICULAR RAMPS ARE AT THE DISCRETION OF THE CITY ENGINEER
- 8. THE CITY PREFERS THAT VACTOR EXCAVATION AND ASPHALT CORE SAW BE USED TO POTHOLE UTILITIES. ALTERNATE METHODS MAY BE ALLOWED, BUT REQUIRE APPROVAL AS A CONDITION OF THE PERMIT. 9. ASPHALT RESTORATION LIMITS WILL BE DETERMINED AFTER PERMIT SCOPE IS COMPLETED.

CONSTRUCTION, INSPECTION, AND NOTIFICATIONS 1. PERMITTEE SHALL REQUEST INSPECTIONS A MINIMUM OF 24 HOURS IN ADVANCE.

- 2. THE PERMITTEE SHALL REQUEST FINAL INSPECTION 48 HOURS AFTER THE WORK IS COMPLETE.
- 3. THE CITY CAN INSPECT ANY PORTION OF THE PROJECT AT ANY TIME. THE INSPECTION SHALL BE PERFORMED BY CITY INSPECTORS AND MAY REQUIRE INSPECTION BY THE ENGINEER OF RECORD (THIRD PARTY INSPECTORS). PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION MEETING MAY BE REQUIRED. THE PERMITTEE/CONTRACTOR IS REQUIRED TO CALL IN ALL INSPECTIONS PER THE REQUIREMENTS OF THE PERMIT
- 4. CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF 48 HRS NOTICE PRIOR TO ANY TRAFFIC CONTROL BEING IMPLEMENTED. NOTICE TO THE CITY AND THE INSPECTOR BY EMAIL IS PREFERRED
- 5. INSPECTIONS ARE REQUIRED FOR CITY UTILITY CROSSINGS AND FINAL STREET RESTORATION.
- REPAIRED TO PRE-CONSTRUCTION CONDITIONS AND TO THE SATISFACTION OF THE PROPERTY OWNER.
- 6. OUTSTANDING AND INCOMPLETE PERMITS MAY CONSTITUENT RESTRICTED PERMITTING TO THE APPLICANT AND CONTRACTOR(S) 7. THE PERMITTEE AND CONTRACTOR ARE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC AND PRIVATE PROPERTY. ALL DAMAGE SHALL BE

#### C.O.M. STANDARD DRAWINGS

- 1-2 TRENCHING BACKFILL
- 1-1 T-PATCH
- 7-1A STREET SIDEWALK SECTION
- 7-15 CONCRETE CURB

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- TITLE NO. 6-1 WATER SERVICE 5-3 SEWER SERVICE AND CLEANOUT 7-6
- SAWCUT AND MATCH NEW ASPHALT DETAIL VISION CLEARANCE FOR COMMERCIAL ZONE ACCESS 7-12A



L				1	2		
					NOTEO		
	-	EXIST		NDITIONS & REMOVAL KEY	NOTES		
		NOTE:	SAWCUTA	ND MATCH NEW ASPHALT PER COM STL	DWG 7-6, SHEET C13.3		
		(1)	SAWCUT AN	ND REMOVE EXISTING HMAC SURFACE	ND AGGREGATE BASE AS SHOWN (TYP	P.)	
		(2)	SAWCUT AN	ND REMOVE EXISTING PCC PAVEMENT A	ND AGGREGATE BASE AS SHOWN (TYP.	.)	GB GB GB
		$\overline{3}$	REMOVE EX	XISTING CONCRETE CURB			
	Δ						/
ľ	`						
		6	(CUT AND C	CAP AT MAIN)			
		$\overline{7}$	CONTRACT	OR TO VERIFY EXISTING SEWER LATER	AL SIZE AND NOTIFY ENGINEER OF		
			RECORD PF NEW 4" SEV	RIOR TO ANY WATERLINE TAPS OR CON VER SERVICE CONNECTION FROM EXIS	STRUCTION. CURRENT PLANS ASSUME TING 4" SEWER STUB.		
		GE					
				3011VET NOTES			PRO
		1.	PROJECT S	SITE IS LOCATED IN SECTION 02, TOWNS TE MERIDIAN, JEFFERSON COUNTY, ORI	HIP 11 SOUTH, RANGE 13 EAST, GON.		
		2	TOPOGRA		HEREIN IS FROM SURVEY		
		۷.	PREPARED	) BY HWA IN MARCH 2022. CONTRACTOR	SHALL VERIFY ALL EXISTING		
			VERIFY LO	CATION, DEPTH, AND SIZE.	UTILITIES AS NECESSARY TO		
		3.	WITH REGA	ARD TO UNDERGROUND UTILITIES, INFO	RMATION FROM CITY OF MADRAS		
			AND UTILIT	TY LOCATE MARKINGS WERE COMBINED TO DEVELOP A VIEW OF THOSE UNDERG	WITH OBSERVED EVIDENCE OF ROUND UTILITIES. HOWEVER,		
			LACKING E CANNOT B	XCAVATION, THE EXACT LOCATION OF UN E ACCURATELY, COMPLETELY AND REL	INDERGROUND FEATURES ABLY DEPICTED. WHERE		
			ADDITIONA	AL OR MORE DETAILED INFORMATION IS	REQUIRED, EXCAVATION MAY BE		
		Л					
	5	4.	RIGHT-OF-	WAYS OF RECORD AND THOSE COMMO	NAND APPARENT ON THE LAND.		1
ľ		5.	THE COOR	DINATES SHOWN ARE BASED ON THE C	ENTRAL OREGON COORDINATE		
			WERE DER	RIVED FROM PUBLISHED CENTRAL OREC	ON COORDINATE SYSTEM		
			BENCHMAF	RKS. IITS: INTERNATIONAL FEET			
			HORIZONT.	AL DATUM: NAD (83-91) DATUM: NGVD29			
		GE	NERAL	REMOVAL NOTES			
		1.	MINIMUM S	SAWCUT REMOVAL SHOWN - ACTUAL SA	WCUT LINES TO		
			CONCRETE	XISTING CONCRETE SCORE LINES (TYP) E REMOVAL).	CAL FOR ALL		
		2.	WORK WIT	HIN THE RIGHT-OF-WAY SHALL BE PERF	ORMED UNDER A		
			SEPARATE	CITY OF BEND INFR PERMIT.			
		LE	GEND				
			•••	PROPERTY LINE			
				ASSESSOR'S TAX LOT LINE (APPROX. L	OCATION)		
			UGP ——	UNDERGROUND GAS LINE			
			8"SS ——	UNDERGROUND SEWER LINE (SIZE AS	NOTED)		
			4"PS ——	UNDERGROUND PRESSURE SEWER LIN	E		
			8"SD —	UNDERGROUND STORM DRAIN			
			-8 w ——	FENCE - WIRE	OTED)		
				HMAC PAVEMENT			D-12071067
>		- A -	4	PCC PAVEMENT			
		280	2020205				
)			- 3641	CONTOUR LINE, 5' INTERVAL			
L				CATCH BASIN			
			***	FIRE HYDRANT			
-			Ŵ				
			® ©	SEWER MANHOLE			
			D	SEDIMENTATION MANHOLE			
			DW	DRYWELL			
-			С О				
			$\odot$	DECIDUOUS TREE (SIZE AS NOTED)			
				PINE TREE (SIZE AS NOTED)			
-			0	SHRUB			Contraction of the
		$\otimes$		EXISTING HMAC PAVEMENT & AGG. BAS TO BE REMOVED	SE		
			XXXXXXVV	EXISTING PCC PAVEMENT & AGG. BASE			— GB — GB — GB — GB
		$\sim$		TO BE REMOVED			
			$\bigotimes$	EXISTING TREE/VEGETATION TO BE RE	MOVED		
		- V	. X . Y	EXISTING CONCRETE CURB TO BE REM	OVED		
		- ^	A 1 A -	LAISTING UTILITY TO BE KEMUVED			
L	1						

32.5'

212'



		1		2			
Γ		GENERAL EROSION CONTROL NOTES		GB			
		THE FOLLOWING ESCP STANDARD PLAN NOTES ARE BASED ON THE CE STORMWATER MANUAL (COSM) APPENDIX 9A.	ENTRAL OREGON	GB GB			
		<ol> <li>HOLD A PRE-CONSTRUCTION MEETING THAT INCLUDES THE INSPE EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION THE ESC PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK</li> <li>THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PER MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABL FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.</li> <li>THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWEI MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION COM a. FENCE OR FLAG AREAS TO BE PROTECTED OR LEFT UNDIST CONSTRUCTION;</li> </ol>	CTOR TO DISCUSS DN LIMITS. IS OCCURRING. EMENTS FOR RIOD, THE MEASURES LE LOCAL, STATE, AND D IN ORDER TO BEST VTROL PROBLEMS: URBED DURING				
/	٩	<ul> <li>INSTALL GRAVELED OR PAVED CONSTRUCTION ENTRANCES AREAS TO REDUCE THE TRACKING OF SEDIMENT ONTO PUB ROADS:</li> </ul>	, EXITS, AND PARKING LIC OR PRIVATE				/
		<ul> <li>c. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEM</li> <li>d. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT ONE OF THE FIRST STEPS PRIOR TO GRADING;</li> <li>e. CLEAR, GRUB AND ROUGH GRADE FOR ROADS AND UTILITY</li> <li>f. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF</li> <li>g. TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OT BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SU FILL SLOPES ARE A RESULT OF THE SITE GRADING;</li> <li>h. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATEF INLETS, PONDS, UIC FACILITIES, ETC.);</li> <li>i. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZI APPROPRIATE BMPS;</li> <li>j. REMOVE TEMPORARY ESC CONTROLS WHEN PERMANENT S' FACILITIES HAVE BEEN INSTALLED, ALL LAND-DISTURBING AC CEASED, <u>AND</u> VEGETATION HAS BEEN ESTABLISHED IN THE A ACCEPTED ESC PLAN.</li> </ul>	PORARY ESC BMPS; TRAPPING BMPS AS LOCATIONS; LOTS; HER APPROPRIATE IBSTANTIAL CUT OR R FACILITIES (I.E. NG THE TORMWATER CTIVITIES HAVE AREAS NOTES ON THE			9	
┢	-	<ol> <li>RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETA UNDISTURBED STATE TO THE MAXIMUM EXTENT AND DURATION P</li> <li>INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCI</li> </ol>	NTION IN AN RACTICAL. ESS ROUTE AT THE	•		a gain y and in a second	
		<ul> <li>INOL EGENTICIAL TOTAL TO THE ONLY TO THE ONLY THAT LET CONSTRUCTION SITE MUST BE CLEANED UP WITHIN 24 HOURS AND ON THE SITE OR PROPERLY DISPOSED. THE CAUSE OF SEDIMENT IDENTIFIED AND PREVENTED FROM CAUSING A RECURRENCE OF TWITHIN THE SAME 24 HOURS, VACUUMING OR DRY SWEEPING MUST CLEAN-UP RELEASED SEDIMENT AND SEDIMENT MUST NOT BE INT INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.</li> <li>COVER AND SECURE ALL DUMP TRUCK LOADS LEAVING THE CONS MINIMIZE SPILLAGE ON ROADS.</li> </ul>	AVES THE D STABILIZED BACK RELEASE MUST BE THE DISCHARGE ST BE USED TO ENTIONALLY WASHED STRUCTION SITE TO	ł			8"SD
		<ol> <li>RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER PRE-CONSTRUCTION CONDITION.</li> <li>CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY.</li> </ol>	THAN THE				
		<ol> <li>STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), GRADE OR NOT, WITHIN 10 CALENDAR DAYS DURING THE REGION/ 1 THROUGH SEPTEMBER 30) AND WITHIN 5 CALENDAR DAYS DURIN WET SEASON (OCTOBER 1 THROUGH, JUNE 30)</li> </ol>	WHETHER AT FINAL AL DRY SEASON (JULY NG THE REGIONAL			L	SS S
1	в	<ol> <li>PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORM FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OF 12. KEEP ROADS ADJACENT TO INLETS CLEAN.</li> </ol>	VATER MANAGEMENT PERABLE.				
		<ol> <li>INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORI REMOVE AND REPLACE INLET PROTECTION DEVICES BEFORE SIX CAN ACCUMULATE.</li> </ol>	M EVENTS. CLEAN OR INCHES OF SEDIMENT			L	
		<ol> <li>INSTALL SEDIMENT CONTROLS ALONG THE SITE PERIMETER ON AI SIDES OF THE CONSTRUCTION SITE BEFORE COMMENCING EARTH ACTIVITIES.</li> </ol>	LL DOWN GRADIENT I DISTURBING		Gr	ſ	
		<ol> <li>WHENEVER POSSIBLE, CONSTRUCT STORMWATER CONTROL FAC RETENTION STORAGE PONDS OR SWALES) BEFORE GRADING BEG FACILITIES SHOULD BE OPERATIONAL BEFORE THE CONSTRUCTIO SITE IMPROVEMENTS</li> </ol>	ILITIES (DETENTION / INS. THESE IN OF IMPERVIOUS	×			
		<ol> <li>STOCKPILE MATERIALS (SUCH AS TOPSOIL) ONSITE, KEEPING OFF SIDEWALKS.</li> <li>COVER CONTAIN AND PROTECT ALL CHEMICALS LIQUID PRODUCT</li> </ol>	OF ROADWAY AND	6"SD —	6"SD -		
		PRODUCT, AND NON-INERT WASTES PRESENT ONSITE FROM VANE SUPPLY OF MATERIALS ON HAND TO ADDRESS AND CONTAIN SPIL 18. LOCATE DESIGNATED VEHICLE AND EQUIPMENT SERVICE AREAS,	DALISM. MAINTAIN A LS. FUEL, AND MATERIALS				
Γ		AWAY FROM DRAINAGE INLETS, WATERCOURSES, AND CANALS. PL AREAS USING BERMS, SANDBAGS, OR OTHER BARRIERS. REGULAI MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LE 19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND	ROPERLY CONTAIN RLY INSPECT AND AKY GASKETS. VEHICLES (I.E. OIL				
		CHANGES, FUEL TANK DRAIN DOWN, ETC.) THAT MAY RESULT IN D SPILLAGE OF POLLUTANTS USING SPILL PREVENTION MEASURES, CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING	ISCHARGE OR SUCH AS DRIP PANS. ANY DISCHARGE OR				
		SPILL INCIDENT. PERFORM REPAIRS ONSITE USING TEMPORARY P ABSORBING BLANKETS BENEATH THE VEHICLE. 20. DESIGNATE AN AREA FOR CLEANING PAINTING EQUIPMENT AND TO BRUSHES OR BINSE CONTAINERS INTO THE STREET, GUTTER, DBA	LASTIC OR OIL DOLS. NEVER CLEAN				
		WATERWAY. 21. APPLY LANDSCAPING OR AGRICULTURAL CHEMICALS, INCLUDING PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, TH	FERTILIZERS AND AT INHIBITS THE LOSS			C	
		OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. 22. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION	/ DURING / AFTER A AND SEDIMENT				
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- 4:5		THE REMOVAL PROCESS.				K	6
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106_CD.dwg			WITHIN 24 HOU RUNOFF FROM DISCHARGE FF	JRS OF ANY STORM EVENT, INCL I SNOW MELT, THAT RESULTS IN ROM THE SITE.	UDING -	 	
2\220			AT LEAST ONC WHETHER STO	E EVERY 14 DAYS, REGARDLESS DRMWATER RUNOFF IS OCCURRII	OF NG.		
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o \AcPublist			STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.				I CONTROL LEG
r \Local \ Tem	כ	PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF SAFE, ACCE MUST OCCUR OR DOWNSTR WATERBODY.	SSIBLE AND PRACTICAL, INSPEC DAILY AT A RELEVANT DISCHARG EAM LOCATION OF THE RECEIVIN	tions àe point ig	— SF — 8"SD —	SEDIMENT FENCING (PER ODOT STD DWG UNDERGROUND STO (SIZE AS NOTED)
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60				285		
65	700	700	700	325		
70				365		

## Page 84

## Stationary Lane Closure with Flagging

Diagram 320 covers total closure of one lane of a two-lane, two-way both directions of traffic on low volume roads (less than 400 ADT) with good sight distance as discussed below.

- 1. Use truck-mounted flashing warning lights on work and protection
- mode may be used.
- 3. Flaggers at each approach are required if any of the following conditions exist:
  - a. Night Operations.
  - Work space is over 200 feet in length. b.
  - С. through the lane closure.
  - d. Traffic volumes are greater than 400 ADT.
- 4. The length between the Flagger Ahead signs shall not exceed one mile.
- the work space safely.
- lanes are narrower than 11 feet.
- 7. Extended queue signing (see Diagram 5-4) should be used when traffic queues extend beyond the initial advance warning sign.
- 8. When flagging near an intersection, the "Flagger Ahead" (CW23-2) the side road(s).
- full road closures of 20 minutes or less.
- queues are expected.

5

Chapter 5





### GENERAL EROSION CONTROL NOTES

THE FOLLOWING ESCP STANDARD PLAN NOTES ARE BASED ON THE CENTRAL OREGON STORMWATER MANUAL (COSM) APPENDIX 9A.

- 1. HOLD A PRE-CONSTRUCTION MEETING THAT INCLUDES THE INSPECTOR TO
- DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- 2. THE ESC PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK IS OCCURRING.
- 3. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE MEASURES MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL
- REGULATIONS. 4. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
- a. FENCE OR FLAG AREAS TO BE PROTECTED OR LEFT UNDISTURBED DURING CONSTRUCTION; b. INSTALL GRAVELED OR PAVED CONSTRUCTION ENTRANCES, EXITS, AND
- PARKING AREAS TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS; c. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY
- ESC BMPS; d. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING
- BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING: CLEAR, GRUB AND ROUGH GRADE FOR ROADS AND UTILITY LOCATIONS;
- CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS; TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING:
- h. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.); PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE i.
- APPROPRIATE BMPS; j. REMOVE TEMPORARY ESC CONTROLS WHEN PERMANENT STORMWATER FACILITIES HAVE BEEN INSTALLED, ALL LAND-DISTURBING
- ACTIVITIES HAVE CEASED, AND VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTES ON THE ACCEPTED ESC PLAN. 5. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN
- UNDISTURBED STATE TO THE MAXIMUM EXTENT AND DURATION PRACTICAL. 6. INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE CONSTRUCTION SITE MUST BE CLEANED UP WITHIN 24 HOURS AND STABILIZED BACK ON THE SITE OR PROPERLY DISPOSED. THE CAUSE OF SEDIMENT RELEASE MUST BE IDENTIFIED AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. VACUUMING OR DRY SWEEPING MUST BE USED TO CLEAN-UP RELEASED SEDIMENT AND SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
- 7. COVER AND SECURE ALL DUMP TRUCK LOADS LEAVING THE CONSTRUCTION SITE TO MINIMIZE SPILLAGE ON ROADS. 8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE
- PRE-CONSTRUCTION CONDITION. 9. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY. 10. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER
- AT FINAL GRADE OR NOT, WITHIN 10 CALENDAR DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 CALENDAR DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). 11. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER
- MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE. 12. KEEP ROADS ADJACENT TO INLETS CLEAN.
- 13. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE. 14. INSTALL SEDIMENT CONTROLS ALONG THE SITE PERIMETER ON ALL DOWN
- GRADIENT SIDES OF THE CONSTRUCTION SITE BEFORE COMMENCING EARTH DISTURBING ACTIVITIES. 15. WHENEVER POSSIBLE, CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION / RETENTION STORAGE PONDS OR SWALES) BEFORE GRADING
- BEGINS. THESE FACILITIES SHOULD BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS. 16. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ONSITE, KEEPING OFF OF
- ROADWAY AND SIDEWALKS. 17. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ONSITE FROM VANDALISM. MAINTAIN A SUPPLY OF MATERIALS ON HAND TO ADDRESS AND CONTAIN SPILLS.
- 18. LOCATE DESIGNATED VEHICLE AND EQUIPMENT SERVICE AREAS, FUEL, AND MATERIALS AWAY FROM DRAINAGE INLETS, WATERCOURSES, AND CANALS. PROPERLY CONTAIN AREAS USING BERMS, SANDBAGS, OR OTHER BARRIERS. REGULARLY INSPECT AND MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LEAKY GASKETS.
- 19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES (I.E. OIL CHANGES, FUEL TANK DRAIN DOWN, ETC.) THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. PERFORM REPAIRS ONSITE USING TEMPORARY PLASTIC OR OIL ABSORBING BLANKETS
- BENEATH THE VEHICLE. 20. DESIGNATE AN AREA FOR CLEANING PAINTING EQUIPMENT AND TOOLS. NEVER CLEAN BRUSHES OR RINSE CONTAINERS INTO THE STREET, GUTTER, DRAINAGE INLET, OR WATERWAY.
- 21. APPLY LANDSCAPING OR AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. 22. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING /
- AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. 23. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY
- BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.

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EROSION CONTROL INSPECTION FREC		F SF
ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE.	
	WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE SITE.	= GB GB CB <b>O</b>
	AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.	
INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.	
PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.	
PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.	
PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.	



EROSION	ERO	SIO	
	FLOW ARROW	(1)	INS
<b></b> SF <b></b>	SEDIMENT FENCING (SEE DETAIL 2/C5.02)	Ŭ	EQ (SE
8"SD	UNDERGROUND STORM DRAIN LINE (SIZE AS NOTED)	2	CC (SE
Section of the sectio	CATCH BASIN INSERT (SEE DETAIL 1/C5.02)	3	INS (SE
	GRAVEL CONSTRUCTION ENTRANCE (SEE DETAIL 3/C5.02)	4	CC (SE
	EQUIPMENT WASHOUT AREA		

## GENERAL GRADING NOTES

- 1. ALL GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT 2019 OREGON STRUCTURAL SPECIALTY CODE AND WITH THE C.O.M. STANDARDS.
- 2. EXCAVATORS SHALL COMPLY WITH THE PROVISIONS OF OAR 952-001-0090.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332-2344 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION FOR LOCATION OF UNDERGROUND WATER, SEWER, STORM DRAIN, POWER, GAS, OIL, CABLE TV, AND TELEPHONE FACILITIES.
- 4. ALL UNSUITABLE SOILS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY.
- 5. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION, AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM HIS OPERATIONS.
- CUT SLOPES IN SOIL AND LOOSE ROCK RUBBLE SHALL NOT 6. EXCEED A RATIO OF 2 HORIZONTAL TO 1 VERTICAL UNLESS PREVIOUSLY APPROVED BY ENGINEER. CUT SLOPES IN SOLID ROCK SHALL NOT EXCEED A RATIO OF ½ HORIZONTAL TO 1 VERTICAL. FILL SLOPES SHALL NOT EXCEED A RATIO OF 3 HORIZONTAL TO 1 VERTICAL UNLESS PREVIOUSLY APPROVED BY ENGINEER.
- ALL ACCESSIBLE ROUTES (EXCLUDING CURB RAMPS) SHALL BE CONSTRUCTED WITH A SLOPE OF NO MORE THAN 5.0% IN THE DIRECTION OF TRAVEL AND A CROSS SLOPE OF NO MORE THAN 2.0%. CURB RAMPS SHALL BE CONSTRUCTED WITH A SLOPE OF NO MORE THAN 8.3% IN THE DIRECTION OF TRAVEL AND A CROSS SLOPE OF NO MORE THAN 2.0%
- 8. THERE ARE NO WETLANDS OR STREAMS LOCATED WITHIN THE PROPOSED DEVELOPMENT AREA. THE PROPOSED PRIVATE SITE IMPROVEMENTS SHALL BE GRADED AND CONSTRUCTED TO CONTAIN PRIVATE STORM WATER ON SITE. MULTIPLE NEW DRYWELLS, AS SHOWN ON THE PLAN, WILL BE CONSTRUCTED FOR PRIVATE STORM WATER DISPOSAL WITHOUT DISCHARGING PRIVATE STORMWATER INTO THE RIGHT-OF-WAY.
- 9. THE PROPOSED DRAINAGE SYSTEM HAS BEEN DESIGNED TO PROVIDE WATER QUALITY TREATMENT AND FLOW CONTROL FOR THE 25-YEAR STORM EVENT WITH A SAFE OVERFLOW PATH FOR THE 100-YEAR STORM EVENT. THE CONVEYANCE SYSTEM COMPONENTS SUCH AS INLETS AND STORM DRAIN PIPES HAVE BEEN DESIGNED TO CONVEY THE PEAK FLOWS FROM THE 25-YEAR STORM EVENT.

#### PAVING KEY NOTES

- INSTALL BIKE RACK  $\left(1\right)$ (REFER TO ARCHITECT SHEET A1.05)
- CONSTRUCT PCC PAVEMENT (4" PCC ON 4" AGGREGATE BASE)  $\langle 2 \rangle$ (SEE DETAIL 8/C5.01)
- CONSTRUCT HMAC PAVEMENT (3" HMAC ON 6" AGGREGATE BASE) (SEE DETAIL 7/C5.01)
- $\langle 4 \rangle$ CONSTRUCT 12" CONCRETE CURB W/ 6" CURB EXPOSURE (SEE DETAIL 9/C5.01)
- CONSTRUCT 8" CONCRETE CURB (FLUSH/NO REVEAL) 5 (SEE DETAIL 10/C5.01)
- TRASH ENCLOSURE 6 (REFER TO ARCHITECT SHEET A1.05)
- CONSTRUCT CURB RAMP (TYP.)  $\langle 7 \rangle$ (SEE DETAIL 11/C5.01)
- INSTALL ACCESSIBLE PARKING SPACE AND LOADING ZONE (TYP.) (SEE DETAIL 5/C5.02)
- INSTALL PARKING LOT STRIPING (9) (SEE DETAIL 5/C5.02)
- CONSTRUCT ACCESSIBLE PERPENDICULAR RAMP AND LANDING (10) (SEE DETAIL 6/C5.01)
- $\langle 11 \rangle$ CONSTRUCT GRAVEL PARKING LOT
- (12) INSTALL CONCRETE WHEEL STOP (SEE DETAIL 5/C5.01)
- INSTALL RECESSED METAL GRATE
- (13) (REFER TO ARCHITECT SHEET A2.11
- (14) CONSTRUCT CONCRETE RAMP AND LANDING WITH HANDRAILS (SEE SHEET C5.04)





	TOTAL		TOTAL	
R STORM	25-YR/24-HR STORM	100-YR/24-HR STORM	100-YR/24-HR STORM	DRYWELL MIN.
λK	INFLOW DESIGN	PEAK	INFLOW DESIGN	DRAIN ROCK
RATE	VOLUME	RUNOFF RATE	VOLUME	VOLUME
GPM)	(CU. FT. / GAL.)	(CFS / GPM)	(CU. FT. / GAL.)	(CU. YD.)
305	3,047 / 22,792	0.85 / 382	3,855 / 28,835	90

	DRAINAGE BASIN BOUNDARY
	EXISTING CURB
	PROPOSED 12" CONCRETE CURB (6" REVEAL)
— — — 2201 — — — —	EXISTING 1' GROUND SURFACE CONTOUR
— — 2205— — —	EXISTING 5' GROUND SURFACE CONTOUR
2201	PROPOSED 1' GROUND SURFACE CONTOUR
2205	PROPOSED 5' GROUND SURFACE CONTOUR
65.50 TC 65.00 FG	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
FG	FINISH GRADE
EG	EXISTING GRADE
EP	EDGE OF PAVEMENT



Ν	<b>MANHOLES</b>	S - THE II	NLET
Ν	NOT LESS	THAN 12	INCH
Ν	<b>NANHOLES</b>	SHALL	NOT

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_1.jpeg)

PUBLIC IMPROVEMENTS TO BE CONSTRUCTED **UNDER SEPARATE PERMIT.** SHOWN FOR REFERENCE ONLY.

CONTRACTOR SHALL POTHOLE AND VERIFY DEPTH AND LOCATION 7 OF EXISTING UTILITY OR UNDERGROUND SERVICE LINE AT PROPOSED CONNECTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

### GENERAL NOTES

1. ALL PUBLIC UTILITIES SHALL BE IN CONFORMANCE WITH CITY OF MADRAS STANDARDS AND SPECS.

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- 2. ALL PRIVATE UTILITIES SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, AND 2021 OREGON PLUMBING SPECIALTY CODE (OPSC).
- 3. ALL SANITARY SEWER PIPING UNDER COVERED PORCHES, OR WITHIN 5' OF THE BUILDING SHALL BE OF MATERIALS IN CONFORMANCE WITH THE PLUMBING CODE. ALL OTHER SEWER PIPING SHALL BE PVC ASTM D-3034.
- 4. ALL STORM SEWER PIPING IN COMMON TRENCHES WITH WATER, OR LOCATED UNDER PORCHES, OR WITHIN 5' OF THE BUILDING SHALL BE SCH-40 OR ABS, PER 2021 OREGON SPECIALTY PLUMBING CODE. ALL OTHER STORM SEWER PIPING SHALL BE PVC ASTM D-3034, UNLESS NOTED OTHERWISE.
- 5. PER 2021 OPSC 314.4, EXCAVATIONS SHALL BE COMPLETELY BACKFILLED AS SOON AFTER INSPECTION AS PRACTICABLE. PRECAUTION SHALL BE TAKEN TO ENSURE COMPACTNESS OF BACKFILL AROUND PIPING WITHOUT DAMAGE TO SUCH PIPING. TRENCHES SHALL BE BACKFILLED IN THIN LAYERS TO 12 INCHES (305 mm) ABOVE THE TOP OF THE PIPING WITH CLEAN EARTH, WHICH SHALL NOT CONTAIN STONES, BOULDERS, CINDERFILL, FROZEN EARTH, CONSTRUCTION DEBRIS, OR OTHER MATERIALS THAT WILL DAMAGE OR BREAK THE PIPING OR CAUSE CORROSIVE ACTION...FILL SHALL BE PROPERLY COMPACTED [IN ACCORDANCE WITH THE GEOTECHNICAL REPORT]. PRECAUTIONS SHALL BE TAKEN TO ENSURE PERMANENT STABILITY FOR PIPE LAID IN FILLED OR MADE GROUND.
- 6. ALL STORM DRAIN PIPING AND FITTINGS SHALL MEET THE 2021 OPSC AND BE THE SAME AS SPECIFIED FOR SANITARY SEWERS IN SECTION 715.0 AND STORM DRAINAGE IN SECTION 1101.4 OF THE OPSC.
- 7. CATCH BASINS SHALL COMPLY WITH 2021 OPSC 1101.11
- 8. CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 100' IN STRAIGHT RUNS AND FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES PER 2017 OSPC 719.0 & 1101.13.
- 9. MANHOLES THE INLET AND OUTLET CONNECTIONS SHALL BE MADE BY USE OF A FLEXIBLE COMPRESSION JOINT NOT LESS THAN 12 INCHES AND NOT EXCEEDING 3 FEET PER 2021 OPSC 719.6. THE MAXIMUM DISTANCE BETWEEN MANHOLES SHALL NOT EXCEED 300 FEET PER 2017 OPSC 719.6.
- 10. CONNECT BUILDING DOWNSPOUTS TO PROPOSED ROOF DRAINS, COORDINATE WITH BUILDING PLUMBING PLANS.
- 11. PER OPSC 718.1, BUILDING SEWERS SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT A UNIFORM SLOPE OF NOT LESS THAN 1/4 INCH PER FOOT (20.8 mm/m) TOWARD THE POINT OF DISPOSAL. EXCEPTION: WHERE APPROVED BY THE BUILDING OFFICIAL AND WHERE IT IS IMPRACTICAL, DUE TO THE DEPTH OF THE STREET SEWER OR TO THE STRUCTURAL FEATURES OR TO THE ARRANGEMENT OF A BUILDING OR STRUCTURE. TO OBTAIN A SLOPE OF 1/4 INCH PER FOOT (20.8 mm/m), SUCH PIPE OR PIPING 4 INCHES (100 mm) THROUGH 6 INCHES (150 mm) SHALL BE PERMITTED TO HAVE A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT (10.4 mm/m) AND SUCH PIPING 8 INCHES (200 mm) AND LARGER SHALL BE PERMITTED TO HAVE A SLOPE OF NOT LESS THAN 1/16 INCH PER FOOT (5.2 mm/m) PER 2021 OPSC 718.1.
- 12. IF PRESENT, SUBSOIL, FOUNDATION, AND ABSORPTION DRAINS THAT ARE SUBJECT TO REVERSE FLOW SHALL BE EQUIPPED WITH APPROVED, ACCESSIBLE BACKWATER VALVES AS REQUIRED BY THE BUILDING OFFICIAL PER OPSC 1101.6.2.(3).
- 13. MECHANICAL (MECH.) JOINT RESTRAINTS ON FIRE HYDRANT PIPING SHALL BE "MEGA LUG" FITTINGS AS MANUFACTURED BY EBAA IRON, INC. OR ENGINEER-APPROVED EQUAL COMPLYING WITH AWWA C-600 AND ASTM D-2774. SEE DETAIL 1/C5.3 FOR MECH. JOINT RESTRAINT TABLE.
- 14. ALL SEWER DIMENSIONS AND SLOPES SHOWN ARE TO CENTER OF MANHOLE.
- 15. STATION AND OFFSETS ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

![](_page_20_Figure_20.jpeg)

![](_page_20_Figure_21.jpeg)

![](_page_21_Picture_0.jpeg)

![](_page_21_Figure_1.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_1.jpeg)

C5.02 SCALE: NOT TO SCALE

![](_page_23_Picture_3.jpeg)

![](_page_23_Picture_4.jpeg)

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![](_page_24_Figure_0.jpeg)

![](_page_24_Figure_1.jpeg)

<sup>62930</sup> O.B. RILEY ROAD, STE. 100, BEND, OR 97703 541-389-9351 | www.hwa-inc.org

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

![](_page_25_Picture_2.jpeg)

![](_page_25_Figure_3.jpeg)

![](_page_25_Picture_4.jpeg)

![](_page_26_Figure_0.jpeg)

IRRIGATION LEGEND				
SYMBOL		MODEL # / DESCRIPTION	DETAIL	
	LASCO	1 1/2" SCH. 40 PRESSURIZED PVC MAINLINE	X / LI501	
	LASCO	SCH. 40 NON-PRESSURE PVC LATERAL, SIZE AS NOTED	X / LI501	
=====	LASCO	PVC SCH. 40 SLEEVING, 2.5 TIMES THE DIAMETER OF THE PIPE OR BUNDLE INSIDE. PLACE UNDER HARDSCAPE OR ASPHALT AREAS, EXTEND 12" BEYOND PAVING EDGES.		
	RAINBIRD	XFD-06-12-XXX DRIPLINE TUBING 0.61 GPH EMITTERS. ALL TUBING SHALL BE INSTALLED 2" BELOW GRADE W/ 9" WIRE STAKES FIVE (5) FEET ON CENTER; SPACED A MAXIMUM OF 18" ON CENTER	X / LI501	
	LASCO	3/4" SCH. 40 NON-PRESSURIZED PVC HEADER	X / LI501	
۸	RAINBIRD	ARV050 AIR/VACUUM RELIEF VALVE. INSTALL AIR RELIEF ASSEMBLY INSIDE A 6" ROUND VALVE BOX AT THE HIGH POINT OF EACH PLANTER, MIN. 1 ARV PER 500' OF DISTRIBUTION TUBING. USING AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA.	X / LI501	
Ē	HUNTER	PLD-BV MANUAL SHUT OFF VALVE USED AS A FLUSH VALVE. INSTALL INSIDE 6" ROUND VALVE BOX, AT THE FAR END OF DRIP LINE LATERAL. INSTALL MINIMUM OF ONE FLUSH VALVE PER MAXIMUM OF 800' OF TUBING. MULTIPLE FLUSH VALVES MAY BE REQUIRED WITHIN DRIP LINE LAYOUT. ALWAYS INSTALL VALVES IN OPPOSITE DIRECTIONS OF THE PVC/DRIP CONNECTION MANIFOLD	X / L1501 N D.	
0	RAINBIRD	OPERIND DRIP SYSTEM OPERATION INDICATOR. INSTALL (1) INDICATOR PER DRIP VALVE. INSTALL DRIP SYSTEM OPERATION INDICATOR ON EXHAUST HEADER OPPOSITE OF THE FLUSH VALVE.	X / LI501	
	WILKINS	950XL XX" XL SERIES DOUBLE CHECK VALVE	X / LI501	
	LASCO	SLO-CLOSE SCH. 80 PVC TRUE-UNION BALL VALVE, LINE SIZE	X / LI501	
•	RAINBIRD	100-PEB-PRS-D PEB SERIES CONTROL VALVE WITH PRESSURE REGULATING MODULE	X / LI501	
$\oplus$	RAINBIRD	XCZ-100-PRB-COM DRIP CONTROL ZONE KIT	X / LI501	
۲	RAINBIRD	44-RC 1" QUICK COUPLER VALVE, NPT RUBBER COVER, 2-PIECE BODY	X / LI501	
A	RAINBIRD	ESP12LXMEF 12-STATION CONTROLLER WITH FLOW SMART MODULE PLUS. VERIFY LOCATION WITH OWNER.	X / LI501	
	PER CIVIL	WATER METER PER CIVIL DRAWINGS	-	

## **IRRIGATION NOTES**

- A. THIS DESIGNED SYSTEM REQUIRES A MINIMUM STATIC PRESSURE OF XX PSI AND A MAXIMUM FLOW OF XX GPM AT THE POINT OF CONNECTION. NOTIFY THE LANDSCAPE ARCHITECT IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
- MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL MAINLINE AND RELATED EQUIPMENT LOCATION TO BE WITHIN PLANTERS AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES.
- C. CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC.
- D. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING REES WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF EXISTING TREES.
- BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE LOCATED JUST OUTSIDE THE ROOTBALL ON OPPOSITE SIDES OF THE TREE.
- ELECTRICAL WIRING FOR REMOTE CONTROL VALVES NOT SHOWN ON PLANS, CONTRACTOR INSTALL WIRING FOR ALL VALVES AND USE PVC SLEEVING FOR WIRE RUNS UNDER CONCRETE OR HARDSCAPE.
- G. CONTRACTOR SHALL INSTALL HUNTER MINI-CLIK RAIN SENSOR ON SYSTEM AND MOUNTED ON BUILDING WHERE IT WILL BE EXPOSED TO DIRECT, UNOBSTRUCTED RAINFALL (BUT AWAY FROM SPRINKLER SPRAY). CHECK FOR OBSTRUCTIONS TO RAINFALL SUCH AS OVERHANGS, TREES, ETC.
- WITH THE EXCEPTION OF ZONES 1,5, & 9, ALL SPRAY IRRIGATION SHALL ACHIEVE HEAD-TO-HEAD COVERAGE AND MINIMIZE OVER SPRAY. CONTRACTOR TO VERIFY IN FIELD AND MAKE NECESSARY ADJUSTMENTS.
- CONTRACTOR TO INSTALL BLOWOUT VALVE IN THE SYSTEM FOR WINTERIZATION PER DETAIL X/LIX.XX.
- J. CONTRACTOR TO COORDINATE POWER TO IRRIGATION CONTROLLER WITH ELECTRICAL CONTRACTOR.
- K. ALL LATERAL END RUNS SHALL BE 3/4" PVC SCHEDULE 40 PIPE UNLESS OTHERWISE NOTED ON PLANS.

![](_page_26_Picture_16.jpeg)

![](_page_26_Picture_17.jpeg)

![](_page_26_Picture_18.jpeg)

![](_page_26_Figure_19.jpeg)

![](_page_27_Figure_0.jpeg)

1000 nw wall st., suite 205 | bend, or 97703 | www.szabo-la.com

![](_page_28_Figure_0.jpeg)

![](_page_29_Figure_0.jpeg)

TEREE       CHARGE-RESUMPTION PROFILE       COMPARE LANGE       COMPARE LANGE LANGE       COMPARE LANGE LANGE       COMPARE LANGE LANGE LANGE       COMPARE LANGE LANGE LANGE       COMPARE LANGE LANG	PLAN <sup>-</sup>	Т МАТЕ	ERIAL LE	GEND				) ndustrial 2	5506
	TREES	ALL TREES	S ARE STANDARI DETAILS ON SH	D FORM UNLESS NOTED. EET LP 501 FOR TREE PLANTING AND STAKING.				<b>END</b> 21 SW Ir uite 130 R 97702	41.330.6
Prove ACCES SCORENA PLANE     Prove ACCES SACENARIA     Prove ACCES     Prove ACCES SACENARIA     ProvE SACENARIA     PROVE ACCES SACENARIA     PROVE ACCES SACENARIA	SYMBOL	QTY	SIZE	BOTANICAL NAME	COMMON NAME				ũ
LU - 2 / LAL ALLER SAUCHMOUX	*	-	8'-9' HT	ACER GINNALA 'FLAME'	FLAME AMUR MAPLE (MULTI TR	RUNK)		LAND Iorrison St.	270
Control of the c	ш ф	-	2" CAL 2" CAL	AGER SACCHARUM	SUGAR MAPLE	г		<b>RT</b> SW N 950 97205	595.0
Control of the c	♦	-	2 0, ∖L 1.5" CAL	PYRUS CALLERYANA	CLEVELAND SELECT PEAR			621 Suite OR	503.
Control of the c	Δ	-	2" CAL	QUERCUS RUBRA	RED OAK		ts		
Control of the c	$\diamond$	-	15 GAL	JUNIPERUS SCOPULORUM 'MOONGLOW'	MOONGLOW JUNIPER		e	ANE	80
SPRUES & CRASSES  PERFORMATION  C  C  C  C  C  C  C  C  C  C  C  C  C	Ó	-	8'-9'	PINUS FLEXIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF LIMBER PINE		<b>Pit</b>	<b>POK</b> 5 W Rive te 500 V 98201	9.252.50
Image:	SHRUBS	& GRASS	ES REFER T	O DETAILS ON SHEET LP 501 FOR SHRUB PLANTING			arc	<b>1 SI</b> 505 Sui VP	506
0       25       1 GAL       ACHILLEA MULECOLUM       COMMON VARIOW         0       36       1 GAL       ACHILLEA MULECOLUM PLANCE       ELONGE AMBITION B. GRAALGESTPS SCIENCE         0       1 GAL       COLLARARGISTIS A XARL TOERSTER       LOORDE AMBITION B. GRAALGESTPS SCIENT VARION         0       1 GAL       COLREGASIS VERTICULATA MONIECOLU       TEATHER RELIG GRASS         16       1 GAL       CORREGASIS VERTICULATA MONIECOLU       TEATHER RELIG GRASS         16       1 GAL       CORREGASIS VERTICULATA MONIECOLU       TUFTED HARGASIS         16       1 GAL       CORREGASIA RARE NOTE CREE       TUFTED HARGASIS         16       1 GAL       CORREGASIA RARE NOTE LICE       TUFTED HARGASIS         16       1 GAL       CORREGASIA RARE NOTE LICE       TUFTED HARGASIS         16       1 GAL       CORREGASIA RARE NOTE LICE       DARAL TO CORREGASIA         16       1 GAL       SCAL POINT AGUESTICULA       MUNECHARA         16       1 GAL       SCAL POINT AGUESTICULA       MUNECHARA         16       1 GAL       SCAL POINT POINT AGUESTICULA       MUNECHARA         17       1 GAL       SCAL PINIS MUNECONTO POLICULA       MUNECHARA         18       1 GAL       SCAL PINIS MUNECONTORICULA       GOLOW SUMAC <td>SYMBOL</td> <td>QTY</td> <td>SIZE</td> <td>BOTANICAL NAME</td> <td>COMMON NAME</td> <td></td> <td>m</td> <td>MA c Ave</td> <td>66</td>	SYMBOL	QTY	SIZE	BOTANICAL NAME	COMMON NAME		m	MA c Ave	66
A CIAC PROVINCE AND	$\bigcirc$	25	1 GAL	ACHILLEA MILLEFOLIUM	COMMON YARROW			COI Dacific Pacific 98402	627.55
Control of the c		23	1 GAL		LICORICE MINT / SUNSET HYS		Δ	TA 1250 Suit	253.
Construction     C	(*)	80	1 GAL	CALAMAGROSTIS A 'KARL FOERESTER'	FEATHER REED GRASS	JRASS		1ST E	
85       104L       CORECPSIS VERTICILLATA MOCINEERAL       MOONESAN THREADLEAF TOXAGE!"         7       5 6.4L       CORNUS SERICICA TARROW ARCITG FIRE       ARCITG FIRE DOBOROOD         24       104L       DESCHAMPSIA CARADE BALINT       ARCITG FIRE DOBOROOD         4       5 6.4L       FOTHERSILLA GARDENI       DWARF MORTARERA SAMERICICAL BELITY         4       5 6.4L       FOTHERSILLA GARDENI       DWARF FOTHERSILLA         6       1.04L       FERTOR SALUES FERTORIANT       MUNISTERAL LAVENDER         21       1.04L       LEVINDULA MULESELOW       DWARF FOTHERSILLA         7       1.04L       NERSTER ADAMENT       DURACES LOW CALLERAL         8       S.04L       FOTHERSILLA GARDENI       DURACES LOW CALLERAL         7       1.04L       NERSTER ADAMENT       MUNISTERAL LAVENDER         8       S.04L       FINIS MARGE CALLERAL       MUNISTERAL LAVENDER         3       S.04L       FINIS MONTOCA REPLOW       CALLEFALX         9       S.04L       FINIS MONTOCA REPLOW       GRUNDECOMMERAR         9       S.04L       FINIS MONTOCA REPLOW       GRUNDECOMMERAR         9       S.04L       FINIS MONTOCA REPLOW       GRUNDECOMMERAR         9       S.04L       FINIS MONTOCA REPLOW		7	5 GAL	CHAMAEBATIARIA MILLEFOLIUM	DESERT SWEET		e é		, 21
S S GAL POSTA CONVESSENCE ARABON ACCTO, FREE ARCTIC FREE DOCMOOD     S S GAL COTOMEASTER DAMAGEN CORAL BEALTY CORAL BEALTY COTOMEASTER     A S GAL COTOMEASTER DAMAGEN CORAL BEALTY CORAL BEALTY COTOMEASTER     S S G GAL PESTICA GLALAGA BEYOND BLUE BEYOND BLUE FERSULE     S S G GAL POSTA RACEMORA WARCES LOW     A S GAL POSTA RACEMORA WARCES LOW     T I GAL LAVANDULA ANGUISTFOLA     MUNISTER/LAVERS LOW CATINIT     T GAL NEETER ARCEMORA WARCES LOW     T I GAL ARTICLES REPORTED CONA     S GAL PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILE ON WARKES LOW CATINIT     T GAL NEETER ARCEMORA WARKES LOW     A S GAL PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     PHYSOCARPUS OPLILIFOLUS DIABOLO     MUNAFE MILEO     S GAL     TUCA FLAMENTOR AR MUTERISTIC      GRUNDCOVER     REFERIO BURGET P X/I GRUNDCOVER R MUTERISTIC      GRUNDCOVER     REFERIO BURGT P X/I GRUNDCOVER R MUTERISTIC      S S GAL     TUCA FLAMENTOR AR MUTERISTIC      S S S OF T     LAWN CLASSIC GLEND AVAIL FROM MCPHETETES     TOTING A MUNA     S S S OF T     LAWN CLASSIC GLEND AVAIL FROM MCPHETERS     TOTING A MUNAFERS PER DETIAL MSHT LP4/01; SEE ALSO SPECIFICATIONE	X	85	1 GAL	COREOPSIS VERTICILLATA 'MOONBEAM'	MOONBEAM THREADLEAF TIC	(SEFD	PRF	ELIMINA	UCTION
1       3       3 GAL       COTONEASTER DAMMER/CORPUTOSA       CORALDERATS       CONTANTER         2       1 GAL       DESCHAMERSA CASEPTONDA       UPEED HARRARSAS       DEFENDARASIS       DEFENDARASIS         3       1 GAL       DESCHAMERSA CASEPTONDA       DUMAR FOTHERCILLA       MUNISTER OTHERCILLA       DUMAR FOTHERCILLA         4       6 GAL       FOTHERCILLA GARDENI       DUMAR FOTHERCILLA       MUNISTER OTHERCILLA       DUMAR FOTHERCILLA         7       1 GAL       LINUM LEWISI       BLUE FLAX       MUNISTER OTHERCILLA       MUNISTER OTHERCILLA         3       5 GAL       PHYSOCARPUS OPULFOLUS DIABOLO       DIABOLO NINEGARK       BULE FLAX         4       5 GAL       PHYSOCARPUS OPULFOLUS DIABOLO       DIABOLO NINEGARK       BULE FLAX         4       5 GAL       PHYSOCARPUS OPULFOLUS DIABOLO       DIABOLO NINEGARK       BYTOR         5       5 GAL       PHYSOCARPUS OPULFOLUS DIABOLO       DIAMA MUGO PINE       BYTOR         5       5 GAL       PHYSOCARPUS OPULFOLUS DIABOLO       DIAMA MUGO PINE       BYTOR         5       5 GAL       PHYSOCARPUS OPULFOLUS DIABOLO       DIAMA MUGO PINE       BYTOR         5       1 GAL       SECUN AUTUMAULS ANDUCKARTER COLLAR       GOMUCHUE PINE       BYTOR         5	$\left( = \right)$	7	5 GAL	CORNUS SERICEA 'FARROW ARCTIC FIRE'	ARCTIC FIRE DOGWOOD		NOTFO		E C J
24 1 104. DESCHAMENIA CASPITOSA UP TED MARGRASS      4     5 GAL FOTHERGILLA GALACA ENVOR BLUE BEVOND ELUE FESUE      4     5 GAL FOTHERGILLA GALACA ENVOR BLUE DWARF FOTHERGILLA      1 GAL ESVINDELIA I GAL ESVINDELIA UNANDULAANGUSTIFICIA UNANDULANGUSTIFICIA UNANDUST UNANDULANGUSTIFICIA UNANDULANGUSTIFICIA UNANDULANGUSTIFICIA UNANDULANGUSTIFICIA UNANDULANGUSTI	(+)	5	3 GAL	COTONEASTER DAMMERI 'CORAL BEAUTY'	CORAL BEAUTY COTONEASTE	R	و ی	02.24.2014	AT A
Control of the residue area of the residue of		24 16	1 GAL				Stan	APE AR	C '
Control of the c	$\bigcirc$	10 4	1 GAL						
21 1 GAL LINUM LEWISH     21 1 GAL HEPETA RACENGAN WALKERS LOW     41 GAL PENDSIKA ATRINICIPCIUA     14 1 GAL PENDSIKA ATRINICIPCIUA     3 5 GAL PHYSOCARPUS OPULIFOLIUS 'DIABOLO' DIABOLO' DIABOLO'' DIABOLO' DIABOLO' DIABOLO' DIABOLO' DIABOLO' DIABOLO' DIABOLO''' ALL''''''''''''''''''''''''''''''		16	1 GAL						
7       1 GAL       NEPETA RACEMOSA WALKERS LOW       WALKERS LOW CATIMIT         14       1 GAL       PEROVISICA ATRIPUCIPCIULA       RUSSIAN SAGE         3       5 GAL       PINUS MUGO PUMILIO"       DIVADIO NUBERARK         49       5 GAL       RIUS ARUGO PUMILIO"       DIVARIO NUMALIS VIDURIN JOY         18       1 GAL       SEDUM AUTURINALIS VIDUNIN JOY       AUTURIN JOY SEDUM         5       3       1 GAL       SEDUM AUTURINALIS VIDURIN JOY       AUTURIN JOY SEDUM         600UNDCVER       REFER TO SHEET L® GRI ORIGINCOVER PLAYTING DETALS       STANDA       STANDA         5       3       1 GAL       ARCTOSTAPHALUS UVA-URSI       KININCKINNICK       24° OC         192       4° POTS       CERATOSTIGHA PLUMBAGINOIDES       HARDY PLUMBAGO       18° O.C.         192       4° POTS       FESTUCA IDA/NELIS NGA IDA/AULI, FROM MCPHEETERS       10AHO FESCUE       18° O.C.         127 DEPTH ROOT BARRIERS PER DETIAL 9SHT LP4.01; SEE ALSO SPECIFICATIONS       STAD FESTUCA IDA/AULI, FROM MCPHEETERS       ISO OF OCCUPANTICION DOVOR         10000       Markers PER DETIAL 9SHT LP4.01; SEE ALSO SPECIFICATIONS       ISO OF OCCUPANTICION DOVOR       ISO OF OCCUPANTICION DOVOR	0	21	1 GAL	LINUM LEWISII	BLUE FLAX		L L		
14       1 GAL       PEROVISIONA ATRIPUICIPOLUA       RUUSSIAN SAGE         3       5 GAL       PHYSOCARPUS OPULIFOLIUS DIABOLO       DIABOLO NINEBARK         49       5 GAL       RHUS AROMATICA 'GROLOW'       GRO LOW SUMAC         49       1 GAL       SEDUM AUTUMALIS 'AUTUMN JOY       AUTUMN JOY SEDUM         5       3 GAL       RHUS AROMATICA 'GROLOW'       GRO LOW SUMAC         6       90000COVER       RUTER TO SHEET I'P SIN GROMEOCOME PLATING DETAILS       BIRGHT EDGE       BIRGHT EDGE YUCCA         97MB0L       017       SIZE       DETMICAL WALE       OCMERN HARE       BIRGHT EDGE       BIRGHT EDGE         9192       47' POTS       CERATOSTIGHA PLUMBAGINOIDES       HARDY PLUMBAGO       18''O.C.       C.         192       47' POTS       CERATOSTIGHA PLUMBAGINOIDES       HARDY PLUMBAGO       18''O.C.         192       47' POTS       FESTUCA IDAHOENSIS       IDAHO FESCUE       18''O.C.         192       47' POTS       FESTUCA IDAHOENSIS       IDAHO FESCUE       18''O.C.         192       47'' POTS       REATOR MONE PEROLON MARCHERTERS       IS''O.C.         192       192       10''O'' BARRIERS PER DETIAL 9'SHT LP4.0''.'SEE ALSO SPECIFICATIONS       IS''O''.         19000000000000000000000000000000000000	$\bigcirc$	7	1 GAL	NEPETA RACEMOSA 'WALKERS LOW'	WALKERS LOW CATMINT		<b>DNS</b> criptic		
SUBOL OF BARRIERS PER DETIAL BISHT LP4 01; SEE ALSO SPECIFICATIONS		14	1 GAL	PEROVISKIA ATRIPLICIFOLIA	RUSSIAN SAGE		Des		
S4       \$64.       PINUS MUGO PUMILIO       DWARE MUGO PINE         49       \$ 564.       RHUS AROMATICA 'GROLOW       GROLOW SUMAC         1       164.       SEDMA ATURMALIS AUTUMA JOY       AUTUM JOY SEDUM         1       53       3.04.       YUCCA FILAMENTOSA'BRIGHT EDGE       BRIGHT EDGE YUCCA         Immol       017       577       10.04.       RACTOSTAPHALUS UVA-URSI       MINNICKINNICK       24" 0.0.         1       192       4" POTS       FEBTUCA IDAHOENSIS       DAHO FESCUE       18" 0.0.       18" 0.0.         1       192       4" POTS       FESTUCA IDAHOENSIS       DAHO FESCUE       18" 0.0.         1       192       4" POTS       FESTUCA IDAHOENSIS       DAHO FESCUE       18" 0.0.         1       192       4" POTS       FESTUCA IDAHOENSIS       DAHO FESCUE       18" 0.0.         1       192       4" POTS       FESTUCA IDAHOENSIS       DAHO FESCUE       18" 0.0.         12" DEPTH ROOT BARRIERS PER DETIAL 9/SHT LP4.01; SEE ALSO SPECIFICATIONS       19" 0.0.       10" 0.0.       10" 0.0.         10000       000000000000000000000000000000000000		3	5 GAL	PHYSOCARPUS OPULIFOLIUS 'DIABOLO'	DIABOLO NINEBARK		NG RI		
AP 3 OLL RIDA ANDAL RIDA KACUMA UKA KACUMA GALANA UKA KACUMA UKA KAU KACUMA UKA KAU KAU KAU KAU KAU KAU KAU KAU KA		54	5 GAL	PINUS MUGO 'PUMILIO'	DWARF MUGO PINE		ZAWII		
COMUNICATIONNALISA ACTIONNALISA ACTIONN		49 18	5 GAL	RHUS AROMATICA 'GRO-LOW'					
GROUNDCOVER BYUBRI 277 92E BOTWICL MARE 53 1 GAL ARCTOSTAPHALUS UVA-URSI KINNICKINNICK 241 OC 192 4*POTS CERATOSTIGMA PLUMBAGINOIDES HARDY PLUMBAGO 19* OC 192 4*POTS FESTUCA IDAHOENSIS IDAHO FIESCUE 18* OC 587 SQ FT LAWN CLASSIC BLEND AVAIL FROM MCPHEETERS 12* DEPTH ROOT BARRIERS PER DETIAL 9/SHT LP4.01; SEE ALSO SPECIFICATIONS CI J 02 CONSLUCTOR DATABLE SPECIFICATIONS CI J 05 CONSULTATION DATABLE SPECIFICATION DATABLE SPECIFICATION DATABLE SPECIFICATION DATABLE SPECIFICATION DATABLE S	Ý	5	3 GAL	YUCCA FILAMENTOSA 'BRIGHT EDGE'	BRIGHT EDGE YUCCA		Date		
GROUNDCOVER       REFER TO SHIELT IF 910 GROUNDCOVER PLANTING DETAILS         SYMBOL       GTV       SIZE       BOTANICAL MARE       COMMON MARE       SPACING         STABLE       S3       1 GAL       ARCTOSTAPHALUS UVA-URSI       KINNICKINNICK       24" 0.C.         Image: Sign of the second control of the second contrel of the second contrel of the second control of the second cont							- <b>W</b>		
COMMON MARE     COMMON MARE     STUDIO	GROUND	COVER	REFER TO SH	IEET LP 501 GROUNDCOVER PLANTING DETAILS					S
S3 1 GAL ARCTOSTAPHALUS UVA-URSI KINNICKI 24° C.     127 4° POTS CERATOSTIGMA PLUMBAGINOIDES HARDY PLUMBAGO 18° O.C.     192 4° POTS FESTUCA IDAHOENSIS IDAHO FESCUE 18° O.C.     587 SQ FT LAWN CLASSIC BLEND AVAIL FROM MCPHEETERS     12° DEPTH ROOT BARRIERS PER DETIAL 3/SHT LP4.01; SEE ALSO SPECIFICATIONS	SYMBOL	QTY	SIZE	BOTANICAL NAME		SPACING	-		L
Constraints of the second		53	1 GAL	ARCTOSTAPHALUS UVA-URSI	KINNICKINNICK	24" O.C.			μ
18" O.C. 192 4" POTS FESTUCA IDAHOENSIS IDAHO FESCUE 18" O.C. 587 SQ FT LAWN CLASSIC BLEND AVAIL. FROM MCPHEETERS 12" DEPTH ROOT BARRIERS PER DETIAL 9/SHT LP4.01; SEE ALSO SPECIFICATIONS UDBUS OF WOOD SOLUTION OF THE STORE SPECIFICATIONS 000000000000000000000000000000000000		27	4" POTS	CERATOSTIGMA PLUMBAGINOIDES	HARDY PLUMBAGO	18" O.C.			CU
Set SQ FT LAWN CLASSIC BLEND AVAIL. FROM MCPHEETERS 12" DEPTH ROOT BARRIERS PER DETIAL 9ISHT LP4.01: SEE ALSO SPECIFICATIONS  UP 10  U	Ψ Ψ Ψ Ψ	192	4" POTS	FESTUCA IDAHOENSIS	IDAHO FESCUE	18" O.C.	2		DO
12" DEPTH ROOT BARRIERS PER DETIAL 9/SHT LP4.01; SEE ALSO SPECIFICATIONS		587 SC	Q FT	LAWN CLASSIC BLEND AVAIL. FROM MCPHER	ETERS		ļΨ	S	Z
The MADRAS SH JOSCAPE PLANTING PLAN CONSTRUCT Power No. 201062.000 00%. CONSTRUCT 90%. CONSTRUCT		12" DE	PTH ROOT B	ARRIERS PER DETIAL 9/SHT LP4.01; SEE ALSO	SPECIFICATIONS		μ	DRA	Ĕ
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![](_page_29_Picture_9.jpeg)

![](_page_29_Picture_10.jpeg)

LP3.01

![](_page_30_Figure_0.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_31_Figure_2.jpeg)

PARKING SIGNAGE

- **GREASE INTERCEPTOR -**SEE PLUMBING
- PAD MOUNTED TRANSFORMER -SEE ELECTRICAL
- HEAT PUMP SEE MECHANICAL
- ELECTRICAL METER

## SITE PLAN GENERAL NOTES

- A. REFER TO CIVIL DRAWINGS FOR HORIZONTAL CONTROL INFORMATION, DRAINAGE, SLAB AND PAVING ELEVATIONS, PUBLIC WORK IMPROVEMENTS, AND SITE UTILITIES. REFER TO LANDSCAPE DRAWINGS FOR PLANTING AND IRRIGATION DESIGN. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION AND SLAB DESIGN. B. FOLLOW ALL RECOMMENDATIONS AND REQUIREMENTS OF THE
- GEOTECHNIAL INVESTIGATION REPORT. SIDEWALKS AND RAMPS SHALL BE CONSTRUCTED TO THE
- FOLLOWING REQUIREMENTS: MAXIMUM CROSS SLOPE OF SIDEWALKS & LANDINGS: 1:50
- MAXIMUM SLOPE OF SIDWEALKS 1:20 MAXIMUM SLOPE OF RAMPS: 1:12
- MAXIMUM SLOPE OF DISABLED PARKING STALLS: 2% IN ANY DIRECTION • 2% MAXIMUM SLOPE FOR 5'-0" IN DIRECTION OF TRAVEL AT ALL
- BUILDING ENTRANCES. D. LIMITS OF WORK: THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS.
- STAGING AREA: THE CONTRACTOR AND SUBCONTRACTORS SHALL LIMIT STORAGE OF MATERIALS AND PORTABLE FIELD OFFICES WITHIN THE AREAS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- GENERAL CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE OR DISRUPT EXISTING UTILITIES, INCLUDING DRAINS, WHILE EXCAVATING OR GRADING DURING CONSTRUCTION. CONFIRM LOCATION OF EXISTING UTILITIES ON ADJACENT PROPERTIES.
- G. PRIOR TO START OF WORK THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE GOVERNING AUTHORITY IN VERIFYING THE LOCATION (INVERT ELEVATIONS, HORIZONTAL CONTROLS, EASEMENTS) OF EXISTING SANITARY AND STORM SEWER, WATER, NATURAL GAS, ELECTRICAL, FIBER OPTIC, TELEPHONE, OVERHEAD POWER LINES AND OTHER UTILITY SYSTEMS, BOTH ONSITE AND OFFSITE. THE CONTRACTOR SHALL COMPARE UTILITY INFORMATION WITH THE CONTRACT DOCUMENTS. IF A CONSTRUCTION CONFLICT IS DISCOVERED BETWEEN THE UTILITY INFORMATION OBTAINED AND THE CONTRACT DOCUMENTS NOTIFY THE ARCHITECT IMMEDIATELY.
- EMERGENCY VEHICLE ACCESS: THE CONTRACTOR SHALL MAINTAIN FIRE TRUCK ACCESS TO THE SITE THROUGHOUT THE CONSTRUCTION PROCESS UNLESS AN ALTERNATE PLAN IS APPROVED BY THE FIRE DEPARTMENT.

VEHICLE PARKING SPACE

STANDARD

VEHICLE SPACES PROVIDED: 25

BICYCLE PARKING PROVIDED: 3 RACKS = 6 SPACES TOTAL

1. LINE OF ROOF ABOVE

2. BICYCLE PARKING

3. CANTILEVER GATE

4. TRASH ENCLOSURE

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5. MECHANICAL ENCLOSURE

HEIGHT, +/-110' LENGTH

8. DRAINAGE SWALE - SEE CIVIL

9. DRIVEWAY APRON - SEE CIVIL

7. RELOCATED POWER POLE - SEE CIVIL & ELECTRICAL

![](_page_31_Figure_19.jpeg)

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## INTERIOR WALL ASSEMBLIES (PLAN VIEW)

<b>I</b>	/
DESCRIPTION	
INTERIOR FURRING WALL	
YPSUM BOARD (5/8")	
" MINERAL OR GLASS FIBER INSULATION	
/OOD STUDS @ 16" O.C.	
NON-RATED INTERIOR WALL	
SYPSUM BOARD (5/8")	
VOOD STUDS @ 16" O.C.	
" MINERAL OR GLASS FIBER INSULATION	
LYWOOD SHEATHING PER STRUCTURAL	
SYPSUM BOARD (5/8")	
YPE 'X' GYPSUM BOARD (5/8")	
VOOD STUDS @ 16" O.C.	
" MINERAL OR GLASS FIBER INSULATION	
LYWOOD SHEATHING PER STRUCTURAL	
YPE 'X' GYPSUM BOARD (5/8")	
SYPSUM BOARD (5/8")	
" MINERAL OR GLASS FIBER INSULATION	
SYPSUM BOARD (5/8")	
VOOD STUDS @ 16" O.C.	

# EXTERIOR WALL ASSEMBLIES (PLAN VIEW)

WALL TYPE	ASSEMBLY	DESCRIPTION
E6W1 T		EXTERIOR FIBER CEMENT SIDING EXTERIOR FIBER CEMENT SIDING CLADDING PER ELEVATIONS RIGID INSULATION (1") (R-5 CI MIN.) VAPOR-PERMEABLE AIR BARRIER MEMBRANE (WRB) VAPOR-PERMEABLE AIR BARRIER MEMBRANE (WRB) PLYWOOD SHEATHING PER STRUCTURAL WOOD FRAMING PER STRUCTURAL R-21 MIN. THERMAL BATT INSULATION W/ FSK FACER GYPSUM BOARD (5/8")

# **ROOF ASSEMBLIES (SECTION VIEW)**

![](_page_33_Figure_7.jpeg)

# **FLOOR ASSEMBLIES (SECTION VIEW)**

![](_page_33_Figure_9.jpeg)

![](_page_33_Picture_10.jpeg)

## DESCRIPTION

PLYWOOD SHEATHING - SEE STRUCTURAL

CLASS II VAPOR RETARDER (AIR BARRIER)

DESCRIPTION

GEOTEXTILE SEPARATION FABRIC (SEE GEOTECH)

NOTE: PROVIDE XPS RIGID INSULATION (R-15) FOR 24 IN. VERTICALLY AT FOUNDATION WALL. NOT SHOWN,

## WALL TYPE GENERAL NOTES

- 1. EXTERIOR FINISH MATERIALS PER ELEVATIONS.
- 2. FLOOR TRACKS & SILL PLATES SHALL BE ANCHORED TO THE SLAB AT SPACING NO GREATER THAN 24" O.C.
- 3. PENETRATIONS IN EXTERIOR WALLS SHALL BE SEALED AIR TIGHT WITH SPRAY FOAM, SEALANT, OR WRB FLASHING COMPONENT.
- 4. TOILET ROOMS SHALL HAVE TILE BACKER BOARD BEHIND CERAMIC WALL TILE (WHERE OCCURS) & MOISTURE RESISTANT GWB AT ALL OTHER SURFACES.
- 5. PROVIDE CEMENT BOARD BEHIND ALL CERAMIC WALL TILE LOCATIONS (WHERE OCCURS).
- 6. PROVIDE TYPE 'X' MOISTURE RESISTANT GWB AT THE FOLLOWING LOCATIONS: BEHIND COOLER/FREEZERS, WALLS ADJACENT TO SINKS AND SINK CABINETS, WALLS ADJACENT TO FLOOR SINKS, WALLS ADJACENT TO DRINKING FOUNTAINS, ANY WET/EXTREME COLD AREAS.
- 7. SEE FINISH SCHEDULE & INTERIOR ELEVATIONS (A5.00 SERIES) FOR FINISHES, SUBSTRATES AND ADDITIONAL NOTES ON SPECIFIC TYPES OF

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- 8. PROVIDE SOLID BLOCKING FOR ALL WALL-MOUNTED CABINETS, EQUIPMENT, WAINSCOTTING & ACCESSORIES.
- 9. SEE CODE SHEETS (A0.0X SERIES) FOR BUILDING CODE ANALYSIS. 10. STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER FRAMING &

PLYWOOD THICKNESS SHOWN ON ARCHITECTURAL WALL TYPES.

- 11. REFER TO STRUCTURAL DRAWINGS FOR STUD SPACING, WALL BRACING, AND SHEAR PANEL LOCATIONS & REQUIREMENTS
- 12. AT INTERIOR BEARING WALLS <u>WITHOUT</u> SOUND INSULATION: REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS. CARRY GYP BOARD TO AT LEAST 6" ABOVE CEILING (UON). IF THERE IS NO CEILING, CARRY GYP BOARD UP TO STRUCTURAL DECK ABOVE.
- 13. AT INTERIOR BEARING WALLS WITH SOUND INSULATION: REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS. CARRY GYP BOARD TO AT LEAST 6" ABOVE CEILING (UON) AND SOUND INSULATION TO THE UNDERSIDE OF STRUCTURAL DECK ABOVE. IF THERE IS NO CEILING, CARRY GYP BOARD UP TO STRUCTURAL DECK ABOVE.
- 14. AT FIRE RATED WALLS: CARRY ENTIRE ASSEMBLY UP TO STRUCTURAL DECK ABOVE OR BEYOND ROOF DECK PER DRAWINGS. PROVIDE FIRE-STOPPING AT PENETRATIONS & PERIMETER. SEE FIRESTOPPING SCHEDULE.
- 15. AT EXTERIOR WALLS: CARRY GYP BOARD UP TO THE STRUCTURAL DECK ABOVE. TAPE WALL VAPOR RETARDERS TO ROOF VAPOR RETARDERS.
- 16. PROVIDE ALL NECESSARY FRAMING TO EXTEND FINISHES TO DECK WHERE REQUIRED, INCLUDING AROUND INTERSECTING STRUCTURE. 17. PROVIDE ACOUSTICAL CAULK AT ALL GWB-TO-FLOOR & GWB-TO-DECK
- INTERSECTIONS. 18. SEAL ALL WALLS, ROOF & SLAB PENETRATIONS WITH SEALANT. TAPE ALL
- PENETRATIONS THROUGH VAPOR RETARDERS AND AIR BARRIERS w/ MANUFACTURER'S TAPE. TYPICAL AT WALLS, ROOFS & SLABS.

![](_page_33_Figure_45.jpeg)

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# EXTERIOR FINISH I



# S-1: FIBER CEMENT SIDING MANUFACTURER: JAMES HARDIE PRODUCT: HARDIE PANEL VERTICAL SIDING W/ RUSTIC GRAIN BATTEN BOARDS <u>TEXTURE:</u> SELECT CEDARMILL, BATTENS @ 12" O.C. <u>COLOR:</u> PT-10 BENJAMIN MOORE TAOS TAUPE 2111-40

S-2: FIBER CEMENT SIDING MANUFACTURER: JAMES HARDIE <u>PRODUCT:</u> HARDIE PLANK LAP SIDING, DREAM COLLECTION <u>TEXTURE:</u> SELECT CEDARMILL, 4 IN. EXPOSURE <u>COLOR:</u> PT-11 BENJAMIN MOORE WOODCLIFF LAKE 980



S-3: FIBER CEMENT TRIM MANUFACTURER: JAMES HARDIE PRODUCT: HARDIE PANEL VERTICAL SIDING W/ RUSTIC GRAIN BATTEN BOARDS TEXTURE: SELECT CEDARMILL, BATTENS @ 12" O.C. COLOR: PT-12 BENJAMIN MOORE MINK 2112-10



<u>R-1: ASPHALT SHINGLE ROOFING</u> <u>MANUFACTURER:</u> GAF <u>PRODUCT:</u> TIMBERLINE HDZ <u>COLOR:</u> BARKWOOD



 $\underline{\text{LEVEL}}_{0"}^{1} \oplus$ 

# **EXTERIOR ELEVATION KEYNOTES**

- 1. BUILDING ADDRESS SIGNAGE
- 2. BUILDING NAME SIGNAGE PROVIDE ELECTRICAL FOR LIGHTING
- 3. WALL-MOUNTED LIGHT FIXTURE WITH SHARP CUT-OFF (8'-0" AFF, UNO)
- 4. TRIM BOARD
- 5. BUILT-UP FASCIA (1X10 W/ 1X6)
- 6. WOOD POST WITH CONCRETE BASE
- 7. METAL GUTTER
- 8. METAL DOWNSPOUT, CONNECT TO STORM PER CIVIL
- 9. WOOD-FRAMED ENCLOSURE WITH FIBER CEMENT SIDING & GATE

<u>T.O. PLATE</u> 12' - 6"

LEVEL 1 0"

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# S-1: FIBER CEMENT SIDING MANUFACTURER: JAMES HARDIE PRODUCT: HARDIE PANEL VERTICAL SIDING W/ RUSTIC GRAIN BATTEN BOARDS <u>TEXTURE:</u> SELECT CEDARMILL, BATTENS @ 12" O.C. <u>COLOR:</u> PT-10 BENJAMIN MOORE TAOS TAUPE 2111-40





S-3: FIBER CEMENT TRIM MANUFACTURER: JAMES HARDIE PRODUCT: HARDIE PANEL VERTICAL SIDING W/ RUSTIC GRAIN BATTEN BOARDS TEXTURE: SELECT CEDARMILL, BATTENS @ 12" O.C. COLOR: PT-12 BENJAMIN MOORE MINK 2112-10





<u>T.O. PLATE</u> 12' - 6"

\_L<u>EVEL 1</u>\_0"

# **EXTERIOR ELEVATION KEYNOTES**

- 1. BUILDING ADDRESS SIGNAGE
- 2. BUILDING NAME SIGNAGE PROVIDE ELECTRICAL FOR LIGHTING
- 3. WALL-MOUNTED LIGHT FIXTURE WITH SHARP CUT-OFF (8'-0" AFF, UNO)
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- 7. METAL GUTTER
- 8. METAL DOWNSPOUT, CONNECT TO STORM PER CIVIL
- 9. WOOD-FRAMED ENCLOSURE WITH FIBER CEMENT SIDING & GATE

<u>T.O. PLATE</u> 12' - 6"

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# DOOR SCHEDULE

DOOR			DOOR PANEL			DOOR	DOOR FRAME					
MARK	WIDTH	HEIGHT	FIRE RATING	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	HARDWARE	U-VALUE	SHGC	COMMENTS
LEVEL 1												
101	3' - 0"	7' - 0"		В	HM-IS/G-3	PT	HM	PT		U-0.63	0.33	ADA ACTUATOR
102	3' - 0"	7' - 0"		Α	SC-V	FF	HM	PT				
103	3' - 0"	7' - 0"		A	HM-IS	PT	HM-IS	PT		U-0.37		
104	3' - 0"	7' - 0"		В	SC-V/G-1	FF	HM	PT				ADA ACTUATOR
105A	3' - 0"	7' - 0"		Α	SC-V	FF	HM	PT				
105B	6' - 0"	4' - 6"		F	MTL	MFR	MFR	MFR				
106	3' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
107	3' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
108	3' - 0"	7' - 0"	45 MIN.	A	SC-V	FF	HM	PT				
110A	3' - 0"	7' - 0"		В	HM-IS/G-3	PT	HM-IS	PT		U-0.63	0.33	
111	3' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
112	3' - 0"	7' - 0"		В	SC-V	FF	HM	PT				
121	3' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
122	3' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
123	6' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
125A	3' - 0"	7' - 0"	45 MIN.	A	SC-V	FF	HM	PT				
125B	3' - 0"	7' - 0"		С	HM-IS/G-3	PT	HM-IS	PT		U-0.63	0.33	
131	3' - 0"	7' - 0"	45 MIN.	A	SC-V	FF	HM	PT				
132	3' - 0"	7' - 0"	45 MIN.	А	SC-V	FF	HM	PT				
133	3' - 0"	7' - 0"		А	SC-V	FF	HM	PT				
134	3' - 0"	7' - 0"		A	SC-V	FF	HM	PT				
135	3' - 0"	7' - 0"		А	SC-V	FF	HM	PT				
136A	3' - 0"	7' - 0"	45 MIN.	A	SC-V	FF	HM	PT				
136B	3' - 0"	7' - 0"		С	HM-IS/G-3	PT	HM-IS	PT		U-0.63	0.33	







# DOOR GENERAL NOTES

- A. ALL DOORS TO HAVE LEVERS FOR ACCESSIBILITY
- B. ALL LABELED DOORS SHALL BE GOVERNED BY UL REQUIREMENTS AND SHALL BEAR PHYSICAL UL LABEL OF FIRE RATING SPECIFIED.
- C. INTERIOR DOORS TO HAVE MAXIMUM EFFORT OF 15 LBS TO OPERATE, EXTERIOR DOORS: 8 1/2 LBS., FIRE RATED DOORS: 15 LBS., NON FIRE RATED DOORS: 5 LBS. (NOT APPLICABLE FOR SUITE DOORS)
- D. VERIFY ALL PARTITION THICKNESSES PRIOR TO DETERMINING FRAME THROAT SIZES.
- E. ALL DOOR FRAME DEPTH SIZE DIMENSIONS SHALL BE 1/8" GREATER ON EACH SIDE OF PARTITION WHERE SNAP-ON CASING IS SCHEDULED.
- DOUBLE DOORS SHALL HAVE METAL ASTRAGAL. G. ALL FIRE RATED DOOR FRAMES SHALL BE 18 GAUGE.
- H. ALL VISION PANELS IN DOOR JAMBS SHALL HAVE AN 18 GUAGE STEEL FRAME. PER SECTION 715.4.3.1, ALL FIRE-RATED DOOR ASSEMBLIES SHALL
- ALSO MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL DOOR ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784 WITH AN ARTIFICIAL BOTTOM SEAL INSTALLED ACROSS THE FULL WIDTH OF THE BOTTOM OF THE DOOR ASSEMBLY. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE TEST AND THE ELEVATED TEMPERATURE EXPOSURE TEST.
- DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- K. PROVIDE TEMPERED SAFETY GLAZING IN DOORS PER OSSC 2406.4.1. L. ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL MEET THE FOLOWING REQUIREMENTS:
- CENTERED AT LEAST 34", BUT NO MORE THAN 48" A.F.F. LATCHING OR LOCKING DOORS IN A PATH OF TRAVEL SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE WITHOUT NEED TO GRASP HARDWARE.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL BE EQUAL TO 8 1/2 LBS AT EXTERIOR DOORS AND LESS THAN OR EQUAL TO 5 LBS AT INTERIOR DOORS.
- RESTROOM DOORS SHALL BE PROVIDED WITH OCCUPANCY INDICATOR.
- CONTRACTOR TO VERIFY SIZES OF ROUGH DOOR OPENINGS PRIOR TO ORDERING DOORS.
- M. ALL INTERIOR DOOR FRAMES TO BE PAINTED PT-5

# DOOR SCHEDULE NOTES

- D-1 PROVIDE "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" SIGN PER OSSC 1008.1.9.3. INSTALL ON DOOR FRAME AT HEAD OF DOOR.
- D-2 PROVIDE DOOR WITH 3/4" UNDERCUT PER MECHANICAL FOR SUPPLY AIR
- D-3 NOTE
- D-4 NOTE
- D-5 NOTE
- D-6 NOTE

# WINDOW GENERAL NOTES

- PERIMETER DIMENSIONS ARE TO ROUGH OPENING. B. CONTRACTOR TO VERIFY SIZES OF ROUGH WINDOW OPENINGS PRIOR TO
- ORDERING WINDOWS. C. U-FACTORS OF FENESTRATION PRODUCTS ARE TO BE LABELED AND CERTIFIED BY THE MANUFACTURER OR ARE DETERMINED USING THE
- COMMERCIAL SIZE CATEGORY VALUES LISTED IN CHAPTER 15 OF THE 2009 ASHRAE HANDBOOK OF FUNDAMENTALS. D. THE TEMPORARY LABEL AFFIXED TO FENESTRATION PRODUCT MUST NOT
- BE REMOVED PRIOR TO INSPECTION. SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION PRODUCTS SHALLBE LABELED AND CERTIFIED BY THE MANUFACTURER OR BE DETERMINED USING THE SOLAR HEAT GAIN COEFFICIENTS USING THE SGHC IN CHAPTER 15 OF THE 2009 ASHRAE HANDBOOK OF FUNDAMENTALS, TABLE NO. 10. THE OVERALL VALUES MUST CONSIDER THE TYPE OF FRAME MATERIAL AND OPERATOR FOR THE SHGC AT NORMAL INCIDENCE.
- SEE DETAIL SHEET A7.02 FOR WINDOW HEAD, JAMB, AND SILL DETAILS. COORDINATE WITH EXTERIOR ELEVATIONS FOR FINISH MATERIAL. G. PROVIDE WINDOW CONTROL OPENING DEVICES ON OPERABLE WINDOWS. H. PROVIDE TEMPERED SAFETY GLAZING AT WINDOWS ADJACENT TO DOORS PER OSSC 2406.4.2.



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**CONSTRUCTION** 

FIG: FIBERGLASS INSULATED CORE

HC-W: HOLLOW CORE WOOD VENEER

HM-IS: HOLLOW METAL INSULATED

MTL: METAL (TIMELY OR SIMILAR)

MFR: PER MANUFACTURER

MTL-IS: INSULATED METAL

VN: VINYL

WD: WOOD

SC-W: SOLID CORE WOOD

SC-V: SOLID CORE VENEER

STF: STOREFRONT, ANODIZED

(BENCHMARK OR APPROVED)

HC-H: HOLLOW CORE HARDBOARD FACED

ALUM: ALUMINUM

HM: HOLLOW METAL





# **EXTERIOR** B3 WINDOW HEAD AT PANEL SIDING

# 3 GRID SIDING, SEE ELEVATIONS WRB (AIR BARRIER) LIQUID FLASHING - EXTEND INTO ROUGH OPENING (AIR BARRIER) SHEET METAL HEAD FLASHING WINDOW PER PLAN

LINE OF JAMB (BEYOND) CAULK

**INTERIOR** 

PREFINISHED 2-PIECE SHEET METAL FLASHING W/ DRIP EDGE -EXTEND ENDS TO ALIGN WITH METAL FLASHING AT JAMBS **BACKER ROD & SEALANT** 

ADD'L INFO

WRB (AIR BARRIER) LIQUID FLASHING - EXTEND INTO ROUGH OPENING (AIR BARRIER)

SIDING, SEE ELEVATIONS

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## **EXTERIOR**



**INTERIOR** 



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C

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SIDING, SEE ELEVATIONS CONT. SEALANT & BACKER ROD LIQUID FLASHING - EXTEND INTO ROUGH OPENING (AIR BARRIER)

VINYL WINDOW PER PLAN CONT. SEALANT & BACKER ROD

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# A2 HM DOOR HEAD AT VINYL WINDOW 0' 1" 2" 4"<sup>3" = 1'-0" @ FULL SIZE</sup>







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001000.0011	
061700.LVL	
072100.XPS	EXTRUDED POLYSTYRENE BOARD INSULATION
072600.VR	VAPOR RETARDER
072727.SAM	SELF-ADHERED AIR BARRIER MEMBRANE
073113.AS	ASPHALT SHINGLES
073113.DE	DRIP EDGES
073113.FU	FELT UNDERLAYMENT
073113.SSU	SELF-ADHERING SHEET UNDERLAYMENT
074646.FCS	FIBER CEMENT SIDING
076200.G	GUTTERS
076200.SMF	SHEET METAL FLASHING



D4 INT. ELEV MOP SINK - NORTH

1' - 0" MOP SINK

3 INT. ELEV. MOP SINK - EAST













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B3 SIGNAGE TYPE 3

- COVE TILE BASE - TILE FLOORING

VINYL FLOORING TS-2

CARPET OR - WALK-OFF MATT, AS SCHEDULED

DOOR - LVT FLOORING

TS-4 SHEET VINYL FLOORING





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TAG	PRODUCT TYPE	MANUFACTURER	DESCRIPTION	FINSH	NOTES	1 1		A A	
PT-1	INTERIOR PAINT	SHERWIN WILLIAMS	SW7566 WESTHIGHLAND WHITE	EGGSHELL	GENERAL WALL / CEILING COLOR			ą	V
PT-2	INTERIOR PAINT	SHERWIN WILLIAMS	SW9130 EVERGREEN FOG	EGGSHELL	ACCENT	$\Box$	ก	A A	
PT-3	INTERIOR PAINT	SHERWIN WILLIAMS	SW6218 TRADEWIND	EGGSHELL	ACCENT		<i>,</i>	E L	C
PT-4	INTERIOR PAINT	SHERWIN WILLIAMS	SW6688 SOLARIA	EGGSHELL	ACCENT	U		ō	5
PT-5	INTERIOR PAINT	SHERWIN WILLIAMS	SW7566 WESTHIGHLAND WHITE	SEMI-GLOSS	METAL DOOR FRAMES		2	≿	ò
PT-10	EXTERIOR PAINT	BENJAMIN MOORE	TAOS TAUPE, 2111-40	SATIN			Ē	Ū	
PT-11	EXTERIOR PAINT	BENJAMIN MOORE	WOODCLIFF LAKE, 980	SATIN			L		
PT-12	EXTERIOR PAINT	BENJAMIN MOORE	MINK, 2112-10	SATIN		2	Ž		
CPT	WALK OFF CARPET	FOSS FLOORS	GRIZZLY TILE, COLOR: D66 ASH, 24" X 24" TILE		SELF STICK INSTALLATION				
LVT	LUXURY VINYL TILE	MANNINGTON COMMERCIAL	SPACIA FIRST 20 - STYLE: WOOD; COLOR: NATURAL OAK SP5W3021		6" x 36" x 0.098", 20 MIL, GLUE DOWN				
QT	QUARRY TILE	DALTILE	QUARRY TILE - ARID GRAY,0Q42, 6" x 6"		USE COORDINATING COVE BASE TRIMS / GROUT 1	1			
GRT	GROUT	LATICRETE	EPOXY GROUT - COLOR: 56 DESERT KHAKI - 3/8 GROUT JOINT		USE WITH QUARRY TILE				
SC	SEALED CONCRETE	N/A	N/A			11			
SV	SHEET VINYL	MANNINGTON COMMERCIAL	ENTWINDED COLLECTION - STYLE: SUBER, COLOR: LEAD WHITE		0.080" THICK - 6', 9', 12' WIDTHS; FLASH COVE - SEE DETAIL A8.51/C2				
WB-1	WALL BASE	TARKETT / JOHNSONITE	4" VINYL COVED WALL BASE, COLOR: TA3 CASTAWAY CB						
TS-1	TILE TO RESILIENT REDUCER	SCHLUTER	RENO-U. SATIN ANODIZED			1			
TS-2	VINYL TO CARPET REDUCER	TARKETT / JOHNSONITE	COLOR: TA6 BEDROCK CG			1	Z		
TS-3	VINYL TO CONCRETE REDUCER	TARKETT / JOHNSONITE	COLOR: TA3 CASTAWAY CB				LA		
TS-4	LVT TO SHEET VINYL TRANSISTION	TARKETT / JOHNSONITE	COLOR: TA3 CASTAWAY CB				Ч /		
PL-1	PLASTIC LAMINATE	FORMICA	MINERAL SPA - 06920-58	MATTE	COUNTERS - RECEPTION 105		Ш		۲
PL-2		WILSONART	FLAX LINEN - 4990-38		COUNTERS - COMMUNITY ROOM 110	1		By	Ž
PL-3	PLASTIC LAMINATE	WILSONART	DESERT ZEPHYR 4841.60	WOODBRUSH	COUNTERS - KITCHEN 112 / LAUNDRY 102	(	$\supset$	L N	ect
PL-4	PLASTIC LAMINATE	FORMICA	AGED ASH 8844-WR		CABINETS	$\left  \right $	Ω	Dra	Proj
							出		
FRP	FIBERGLASS REINFORCED PANEL	CRANE COMPOSITES	VARIETEX, LINEN TEXTURE, COLOR: SOUTH BEACH IVORY 1282		USE MFG RECOMMENDED TRIM AT ALL EDGES & SEAMS		SC		
WD-1	WOOD TRIM	N/A	SPECIES: MAPLE	SATIN CLEAR	FLAT TRIM		T	2	3
L1	LOCKERS	PENCO	COLOR: 073 CHAMPAGNE		BASIS OF DESIGN		Ś		777
PC-1	PRIVACY CURTAIN	INPRO	ARRAY - STONE (SHIELD BY PANAZ)		BASIS OF DESIGN, MEN'S DORM 125	1	=		2
PC-2	PRIVACY CURTAIN	INPRO	ARRAY - AUBURN (SHIELD BY PANAZ)		BASIS OF DESIGN, WOMEN'S DORM 136	tle:		0	õ
ТВ	TACK BOARD	KOROSEAL	TAC WALL - COLOR 82 QUARRY			ng Ti	LL_		ر وم
	1					Drawi		Date :	Revis



6

- REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT INFORMATION.
- EXTEND FLOOR FINISHES UNDER APPLIANCES AND OPEN COUNTER AREAS.
- 4. FLOORING TRANSITIONS TO BE LOCATED AS SHOWN; U.N.O. TO BE CENTER OF DOOR FRAME, OR ALIGNED WITH WALL FINISH FACE. SEE SHEET A8.51 FOR TRANSITION DETAILS.
- 5. FLOORING LAYOUTS AND DIRECTION TO BE AS SHOWN.
- 6. REFER TO WINDOW / DOOR DETAILS FOR DOOR THRESHOLD INFORMATION.
- 7. ALL MATERIALS TO BE INSTALLED PER MANUFACTURE DIRECTION.
- 8. PROVIDE FLASH COVE AT ALL AREAS WITH SHEET VINYL, SEE DETAIL A8.51/C2.
- 9. ALL WALLS TO RECEIVED PT-1 W/ WB-1 UNLESS OTHERWISE NOTED
- 10. ALL METAL DOORFRAMES TO BE PAINTED PT-5

11. KITCHEN TO RECEIVE FRP ON ALL WALLS, TYP. TO 7' AND ALIGNED WITH TOP OF UPPER CABINETS.

**KEYNOTES - FINISH PLAN** 

 #
 DESCRIPTION

 1
 NO FLOORING UNDER LOCKERS OR CASEWORK





Sheet No.

A9.01

BLRB ARCHITECTS, P.S.

ar

## MATERIAL / FINISH SCHEDULE





4

3

**KEYNOTES - BY SHEET** 

02800.GB	GRAB BAR
02800.LSD	LIQUID SOAP DISPENSER
02800.M	MIRROR
02800.RH	ROBE HOOK
02800.SCD	SEAT COVER DISPENSER
02800.SND	SANITARY NAPKIN DISPOSAL UNIT
02800.TD	TOWEL DISPENSER (TYPE)
02800.TTD	TOILET TISSUE DISPENSER
02800.WAD	WARM AIR DRYER



# **GENERAL STRUCTURAL NOTES:**

GENER	AL NOTES:					CONCRET	<u>E AND F</u>	REINFOR	<u>CING S</u>
1.	ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2018	INTERNATIONA	L BUILDING CODE	AS AMENDED BY THE ST	ATE OF OREGON	10. <u>F</u>	<u>(EINFOR</u>	<u>CING STE</u> RFINFOR(	<u>EL:</u> CING S
2.	THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTIO	N WITH OTHER	DESIGN CONSUL	ANT'S DRAWINGS (ARCH	ITECTURAL,	-	ſ	REINFORG	CED CO
	MECHANICAL, ETC.). IT IS THE RESPONSIBILITY OF THE CONTRACT SHOP DRAWINGS AND CONSTRUCTION	OR TO COORDI	NATE THE REQUIF	EMENTS OF THE DRAWIN	IGS INTO THEIR	E	). C. (	SMOOTH	BARS
3.	THE GENERAL STRUCTURAL NOTES ARE INTENDED FOR USE IN CO	NJUNCTION WI	TH THE PROJECT	SPECIFICATIONS. IN THE E	VENT OF A	C	). F		
	CONFLICT BETWEEN THE TWO, THE GENERAL STRUCTURAL NOTE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND	S SHALL SUPERS ENGINEER.	SEDE THE PROJEC	T SPECIFICATIONS. ANY D	ISCREPANCY	E	E. 7	ALL LAP S	PLICE
4.	CONSTRUCTION SEQUENCE AND METHODS:					F	=	OTHERWI	SE. μανια
	A. THE STRUCTURAL DRAWINGS ARE INTENDED FOR THE ST THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE S/	RUCTURE TO AC AFETY AND STAE	SI AS A WHOLE C BILITY (I.E. TEMPC	NCE CONSTRUCTION IS C RARY BRACING IF REQUI	OMPLETE. IT IS RED) DURING		. ,	SUBMITTI	ED TO
	CONSTRUCTION AS A RESULT OF CONSTRUCTION METHO	DDS AND SEQUE	NCES.			C	3. l	JNLESS N AS NOTED	OTED
	THE CONTRACTOR SHALL TAKE INTO ACCOUNT COLD WE THE CONSTRUCTION SCHEDULE.	ATHER CONSTR		EFFECTS OF THERMAL IN	OVEMENT DURING		F	BEAMS, JO	DISTS
	C. NON-CANTILEVERED OR RESTRAINED RETAINING WALLS	SHALL NOT BE B	BACKFILLED UNTI	THE WALL HAS BEEN TIE	D INTO THE		1	NALLS	
5.	THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS	5. THE ARCHITEC	CT AND/OR ENGIN	IEER SHALL BE NOTIFIED (	OF ANY			וו	NTERI
6	DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTR	RUCTION DOCUM	MENTS.					E	XPOS
0.	A. SUBMITTALS OF SHOP DRAWINGS, MILL TEST REPORTS, F	PRODUCT DATA	FOR ITEMS AND	BIDDER DESIGN ITEMS SH	ALL BE MADE TO	11 (			S
	THE ARCHITECT/ ENGINEER PRIOR TO FABRICATION AND	CONSTRUCTION	N. BEFORE SUBMI	SSION TO THE ARCHITECT	/ ENGINEER, THE	11. <u>(</u> /	<u>JONCRE  </u> 4. [	PROVIDE	<u>:</u> THE N
	RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR	R SHALL MARK 1	THE SHOP DRAWI	NG WITH ALL NECESSARY	COMMENTS AND		<u>\</u>	NALL THI	CKNE
	DETAILER REQUESTED INFO BEFORE FORWARDING TO TH	IE ARCHITECT/ E	ENGINEER. SUBM	TTALS SHALL BE MADE IN	I TIME TO		E	5" 3"	
	B. SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS SHALL BE	SUBMITTED TO	THE ARCHITECT/	ENGINEER PRIOR TO FAB	RICATION AND	E	3. 1	HOOKED	DOWI
	CONSTRUCTION. SUCH ITEMS INCLUDE:					C	). F D. F	PROVIDE JNLESS N	HOOK IOTED
	CONCRETE MIX DESIGNS, CONCRETE REINFORCEMENT (INCLUDIN	IG MILL TEST RE	PORTS), EMBEDD	ED STEEL ITEMS, STRUCT	JRAL STEEL	F	IAVING	SINGLE LA	AYER (
	(INCLUDING MILL TEST REPORTS), GLUED-LAMINATED MEMBERS,	, OPEN WEB WC	OD JOISTS AND	NOOD I-JOISTS.		C F	)PENING ≀EINFOR	i. PROVID CING.	E (1)
	SHOP DRAWINGS OR CONTRACTOR ENGINEERED DETAILS SHALL	BEAR THE SEAL	AND SIGNATURE	OF A REGISTERED STRUCT	URAL ENGINEER	12. <u>/</u>		NAL CON	CRETE
	IN THE STATE OF OREGON IF IT DIFFERS FROM THE DESIGN OF TH DRAWINGS SHALL BE SUBMITTED ALONG WITH SUPPORTING CAL	E STRUCTURAL	DRAWINGS. ANY	REVISION FROM THE STR	UCTURAL	A E	۰. ۲ ۶. ۱	HEADED S WEDGE A	SHEAR
	STRUCTURAL ENGINEER IN THE STATE OF OREGON TO THE ARCHI	TECT/ ENGINEE	R FOR REVIEW AN	ID ACCEPTANCE.		Т	O THE E	NGINEER	FOR
	C. CALCULATIONS, DESIGN DRAWINGS, AND SHOP DRAWIN	GS FOR THE DE	SIGN. FABRICATIO	N AND CONSTRUCTION (	)F THF BIDDFR	(	). Jr uncf	EPOXY AN RACKED C	ICHOI ONCR
	DESIGN ITEMS SHALL BEAR THE SEAL AND SIGNATURE OF	A REGISTERED	STRUCTURAL EN	GINEER IN THE STATE OF	DREGON AND	Γ	). I	JNLESS N	OTED
	SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER PRI	OR TO FABRICA	TION. BIDDER DES	SIGN ITEMS FOR THIS PRO	JECT INCLUDE:	(	JALVANI 7) DAYS	ZED AFTE AFTER CA	R FAE
	OPEN WEB WOOD JOISTS, WOOD I-JOISTS, STAIRS, SUNSHADES/	PREMANUFACT	URED AWNINGS,	SKYLIGHTS, WINDOW WA	LLS, AND ALL	13. F	EINFOR	CEMENT	SHALI
	OTHER GLAZING SYSTEMS.					14. F	∶ARTH SH REINFOR	HALL BE S CING STE	EL SH
	CALCULATIONS AND BIDDER DESIGN DRAWINGS SHALL INCLUDE	THE DESIGN, CO	NNECTION TO TH	E STRUCTURE, AND ACCO	DUNTING OF ANY	E I			ORD.
	LOCALIZED EFFECTS THE CONNECTIONS OR SYSTEMS MAY INDUC ON THE DESIGN REQUIREMENTS AS SPECIFIED IN THE GENERAL S	E ON THE STRU	CTURE. ALL SUCH TES.	BIDDER DESIGNED ITEMS	SHALL BE BASED	15.	WEI SE	I TING" U	
7.	DESIGN CRITERIA:							f'c=3,0	00 psi
,	A. CODE: 2018 INTERNATIONAL BUILDING CODE AS AMENDED BY TH	HE STATE OF OR	EGON (2019 OSS	C).		BAR SIZ		P BARS	
I	3. LOADS AND DESIGN CRITERIA: THE FOLLOWING LIVE LOADS AND	CRITERIA WERE	USED IN ADDITIO	ON TO THE DEAD LOAD O	THE STRUCTURE.	#3	28	1 CASE 2 42	2
	LIVE LOADS: ROOF					#4	37	56	2
	GROUND SNOW LOAD	15 PSF				#5	56	84	4
	SNOW EXPOSURE FACTOR SNOW IMPORTANCE FACTOR	Ce= 1.0 ls= 1.0				#7 #8	81	122	6
	THERMAL FACTOR	Ct = 1.1			,	#8	105	159	8
	SOIL CRITERIA: (BY: WALLACE GROUP; PROJECT NO. 21239 (1);	DATED MARCH	ADDED SNOW DI 15, 2022)	(IFT IF SHOWN ON PLANS	)	#10	118	177	9
	FOOTING (FROST) DEPTH	1'-6" MIN. BE	LOW GRADE						
	ON ENGINEERED FILL OR NATIVE SOILS	2500 PSF (W/	1/3 INCREASE FO	R SHORT TERM LATERAL	LOADS)	<u>LAF 51</u> 1.	LAP LI	ENGTHS A	ARE IN
	RETAINING WALLS (VALUES ARE ASSUMED)				·	2.			
	ACTIVE - UNRESTRAINED	50 PCF (LEVEI	L BACKFILL) L BACKFILL)			3. 4.	TOP B	ARS ARE	HORIZ
	PASSIVE	250 PSF/FT. B	ELOW NATURAL	GRADE (ENGINEERED FILL	OR NATIVE SOILS)	5.	CASES	S 1 AND 2	
	FRICTION COEFFICIENT LATERAL CRITERIA:	0.35 (ENGINE	EERED FILL OR NA	TIVE SOILS)			BEAIVI	CASE 1	L: CO
	RISK CATEGORY	П						CASE 2	2: CO
	WIND (DIRECTIONAL DESIGN PROCEDURE PER 2019 OSSC) ULT. DESIGN WIND SPEED. Vult (3-SEC GUST)	100 MPH						CASE 1	ALL CO
	WIND EXPOSURE	C						CASE 2	2: CO
	INTERNAL PRESSURE COEFFICIENT COMPONENTS AND CLADDING DESIGN	± 0.18				<u>GLUED I</u> 1		TED MEN	IBERS
	PRESSURE NOTES:	ULT. NET DE	SIGN WIND PRES	SURE (PSF) FOR 10 FT. <sup>2</sup>		л. А.	AMERIC	AN NATIO	DNAL
	1. LOADS APPLIED IN EITHER DIRECTION NORMAL TO SURFACE		ZONE 1, 2e	+16.0/ -40.2		B. C	ANSI ST		A190.
	2. REFER TO FIGURE 30.4-1 ASCE 7-16		ZONE 2n,2r,3e	+16.0/ -58.7		2.	THE MI		ilue l
	FOR ZONES 3. FLAT, HT.=30'. EXP. ADJ.=1.0		ZONE 3r	+16.0/-69.7				<u>ABER</u>	
		WALL (PSF)	ZONE 4 ZONE 5	+21.8/-23.6			CONT	L JPAN NUOUS∕	CANT
	SEISMIC (EQUIVALENT LATERAL FORCE PROCEDURE) IMPORTANCE FACTOR (SEISMIC)	Lle= 1.0				3.	APPEAR		ALL BI
	SITE CLASS	D				4.	ALL BEA	MS SHAL	L HA
	SPECTRAL RESPONSE ACCELERATIONS	Ss= 0.378 S1= 0 188				5.		CHING O	
	SPECTRAL RESPONSE COEFFICIENTS	Sds= 0.377				ь. 7.	GLUE SH WHERE	HANGER	v⊨1-U S ARE
	SEISMIC DESIGN CATEGORY	Sd1= 0.279 D					NOT ALL	OWED W	
	BOTH DIRECTIONS:	D					SHALL B	ABLE LOA E INSTAL	LED P
	RESPONSE MODIFICATION COEFFICIENT	R= 6.5 (LIGHT	FRAMED PLYWC	OD S.W.'S)		8.	ALL EXT	ERIOR GL	ULAN
	DESIGN BASE SHEAR (ULT)	V= 6.70K (rho	=1.0)			9.	GLUED I	_AMINAT	ED W
<u>co</u> 1.	CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14	AND THE 2018 II	NTERNATIONAL B	UILDING CODE AS AMENI	DED BY THE STATE OF	:			
2	OREGON (2019 OSSC).								
Ζ.	F'c = 4500 PSI (MAX. w/cm=0.45)FOR ALL US	ES UNLESS NOT	ED OTHERWISE (I	.E. FOOTINGS, STEM WAL	LS, PIERS)				GLUE
	F'C = 3000 PSIINTERIOR S					۲)			
3.	CONCRETE MIX DESIGNS, ALONG WITH TEST DATA AS REQUI	RED, BY ACI 318-	-14, SECTION 26.4	, SHALL BE SUBMITTED TO	O THE ARCHITECT/	<u>wool</u>	<u>D STRUC</u>	TURAL P	ANEL
4	ENGINEER FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR	TO CONCRETE P	OURS.			1.	STRUG	CTURAL V A. U.S	VOOD 5. PRO
4.	INSPECTION IS REQUIRED.		LILINDER TESTS F		VINENE OFECIAL			B. U.S	. PRO
5.	A 20% MAXIMUM OF THE CEMENT CONTENT MAY BY SUBSTI			NG TO ASTM C618, TYPE	OR C. HIGHER			C. APA D. AN	<sup></sup> PRP− Υ CΩΓ
	UTILIZING FLYASH SHALL BE VERIFIED WITH TEST DATA.	INCE AND APPR	JVAL BY THE STR	JUI URAL ENGINEER. ANY	CUNCRETE MIX	2.	ROOF	PANELS	SHALL
6.	ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETI	E MIX AT THE JO	BSITE. WATER RE	DUCING ADMIXTURES CO	NFORMING TO ASTM	1 3. 4	WALL ALL R	PANELS S	SHALL
7.	C494 MAY BE UTILIZED IN ACCORDANCE WITH MANUFACTUR	ETE SURFACE, T	THE EXISTING SUR	FACE SHALL BE CLEANED	AND ROUGHENED TO	)	ALL P	ANEL EDO	SES UI
-	A MIN. 1/4" AMPLITUDE.					5.		RE BLOCK	ing is
8.	SLEEVES, OPENINGS, CONDUITS, AND OTHER EMBEDDED ITEN STRUCTURAL ENGINEER BEFORE POURING. CONDUITS EMBE	VIS NOT SHOWN	HALL NOT BE LA	UKAL DRAWINGS SHALL E RGER IN OUTSIDE DIAMFT	E APPROVED BY THE	6.	SUB-F	LOOR SH	EATH
	THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLC	SER THAN THRE	EE DIAMETERS ON	I CENTER. PROVIDE 3/4" (	CHAMFERS ON ALL	7	SHALL	BE GLUE	
q	EXPOSED CONCRETE EDGES UNLESS NOTED OTHERWISE. SHORING AND RESHORING:					1.	ALL N. BE US	ED AT PE	
5.	SHORING AND RESHORING SHALL CONFORM TO ACI347.2 R-1	7. SHORING AN	D SUPPORTING F	ORMWORK SHALL NOT B	E REMOVED FROM	8.	ALL N		IRE-TH
	HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH IS AT	LEAST 70 PERCE	NT OF DESIGN ST	RENGTH, AS DETERMINED	D BY FIELD CURED		WAN	JFACIUR	сК.

CYLINDERS. IN ADDITION, SHORING SHALL NOT BE REMOVED SOONER THAN RECOMMENDED BY ACI 347.2R-17. FORMWORK SHALL NOT BE

REMOVED IN LESS THAN (10) DAYS.

## STEEL CONT.:

STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED ACCORDING TO THE "MANUAL OF STANDARD PRACTICE OF CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).

STEEL SHALL CONFORM TO ASTM A615, GRADE 60.

S OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. STEEL REQUIRING WELDING OR PLACED WITHIN A SPECIFIED BOUNDARY ELEMENT OR MOMENT FRAME ELEMENT

RM TO WELDABLE ASTM A706. ES OF REINFORCEMENT SHALL CONFORM TO CLASS B LAPS AS SHOWN ON THE LAP SPLICE SCHEDULE, UNLESS NOTED

ICAL BAR SPLICES SHOWN SHALL BE MADE WITH DAYTON BAR-GRIP COUPLERS OR WITH AN APPROVED PRODUCT ) THE ENGINEER OF RECORD WITH AN ICBO REPORT.

OTHERWISE, REINFORCING STEEL SHALL HAVE THE MINIMUM COVER OR PROTECTION FOR THE FOLLOWING USES

..... 1-1/2" (TO TIES OR STIRRUPS) AND COLUMNS.....

IOR FACES....

SED TO EARTH OR WEATHER.....1-1/2" (#5 BARS AND SMALLER) 2" (#6 BARS AND LARGER)

...3/4"

MINIMUM WALL REINFORCING AS SHOWN BELOW UNLESS NOTED OTHERWISE ON PLANS:

**REINFORCING** #4 VERT. @ 18" O.C. & #4 HORIZ. @ 16" O.C. @ € OF WALL

#4 VERT. @ 18" O.C. & #4 HORIZ. @ 12" O.C. @ € OF WALL

ILS FROM FOUNDATIONS SHALL BE PROVIDED TO MATCH VERTICAL WALL REINFORCING. KED DOWELS MATCHING SLAB REINFORCING FROM WALLS TO SLABS OR HOOK SLAB REINFORCEMENT INTO WALLS. OTHERWISE, PLACE (2) #5 BARS IN WALLS W/ (2) LAYERS OF REINF. IN BOTH DIRECTIONS & (1) #5 BAR IN WALLS OF REINF. IN BOTH DIRECTIONS, ON ALL SIDES OF SLAB AND WALL OPENINGS EXTENDED 36" BEYOND OR (2) 4'-8" LONG DIAGONAL #5 BARS AT EACH CORNER OF THE OPENING MATCHING THE LAYERS OF

ITEMS

R STUDS AND DEFORMED BAR ANCHORS SHALL BE AN APPROVED NELSON PRODUCT OR APPROVED EQUAL. ORS OR EXPANSION BOLTS SHALL BE HILTI KWIK BOLT-TZ OR AN APPROVED EQUAL SUBMITTED WITH ICBO REPORTS

REVIEW. DRS OR DOWELS SHALL BE INSTALLED WITH HILTI HIT-RE 500-V3 EPOXY ADHESIVE. AN APPROVED EQUAL IN CRACKED RETE WITH ICBO REPORTS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL

D OTHERWISE, PERMANENTLY EXPOSED EMBEDDED PLATE AND ANGLE ASSEMBLIES SHALL BE HOT DIPPED BRICATION. WELDS OR LOADS SHALL NOT BE PLACED ON THE EMBEDDED ASSEMBLIES FOR A MINIMUM OF

IG IN CONCRETE. L BE SECURED IN FORMS WITH SUITABLE TIES AND ANCHORAGE TO PREVENT DISPLACEMENT. BARS ADJACENT TO

ORTED BY CEMENT MORTAR CUBES. HALL NOT BE DISPLACED FOR THE CONVENIENCE OF OTHER TRADES UNLESS APPROVED BY THE STRUCTURAL

NFORCEMENT, ANCHOR BOLTS AND INSERTS IS NOT PERMITTED.

CO	CONCRETE REINFORCING LAP SPLICE SCHEDULE									
osi			f'c=4,00	0 psi		f'c=5,000 psi				
OTHEF	R BARS	TOP	BARS	OTHER BARS		TOP	TOP BARS		R BARS	
ASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	
22	32	24	36	19	28	22	33	17	25	
29	43	32	48	25	37	29	43	22	33	
36	54	40	60	31	47	36	54	28	42	
43	64	48	72	37	56	43	65	33	50	
63	94	70	106	54	81	63	94	49	73	
72	107	80	121	62	93	72	108	55	83	
81	121	91	136	70	105	81	122	63	94	
91	136	102	153	79	118	91	137	70	105	
101	151	113	170	87	131	101	152	78	117	

I INCHES AND ARE BASED ON GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE

P SPLICES ARE NOTED IN THE PLANS OR DETAILS, DIVIDE THE TABULATED VALUES BY 1.3 AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

IZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

DEFINED AS FOLLOWS:

OVER AT LEAST 1.0 DB AND C.C. SPACING AT LEAST 2.0 DB (WHERE DB = BAR DIAMETER). OVER LESS THAN 1.0 DB OR C.C. SPACING LESS THAN 2.0 DB.

L OTHERS:

OVER AT LEAST 1.0 DB AND C.C. SPACING AT LEAST 3.0 DB. OVER LESS THAN 1.0 DB OR C.C. SPACING LESS THAN 3.0 DB.

1EMBERS SHALL CONFORM TO THE REQUIREMENTS OF ONE OF THE FOLLOWING STANDARDS AND PUBLICATIONS: STANDARD FOR STRUCTURAL GLUED LAMINATED TIMBER.

STANDARD OR PUBLICATION. APPROVAL MUST BE OBTAINED FROM W.S.E.

LAMINATED MEMBER GRADES SHALL BE AS FOLLOWS:

<u>GRADE</u> 24F-V4

TILEVER 24F-V8

E FRAMING INDUSTRIAL FOR HIDDEN MEMBERS AND ARCHITECTURAL FOR EXPOSED MEMBERS UNLESS NOTED

DRAWINGS.

VE A 3500 FOOT RADIUS CAMBER UP UNLESS OTHERWISE NOTED ON THE DRAWINGS. RING OF HOLES IN BEAMS IS ALLOWED WITHOUT APPROVAL BY W.S.E.

USE EXTERIOR WATERPROOF GLUE.

E REQUIRED BUT NOT SPECIFICALLY SIZED, SIMPSON GLT HANGERS SHALL BE USED. SUBSTITUTION OF HARDWARE IS OUT APPROVAL OF W.S.E. THE SUBSTITUTION SUBMITTAL SHALL INCLUDE DOCUMENTATION SHOWING THE F THE SPECIFIED HARDWARE ALONG WITH TABULATED ALLOWABLE LOADS FOR THE SUBSTITUTED ITEMS. ALL ITEMS PER THE MANUFACTURERS INSTALLATION REQUIREMENTS. MS TO BE TREATED WITH A PRESERVATIVE TREATMENT (EXTERIOR GRADE)



## ED LAMINATED BEAM

D PANELS SHALL CONFORM TO THE REQUIREMENTS OF ONE OF THE FOLLOWING STANDARDS AND PUBLICATIONS: DDUCT STANDARD PS 1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD. DDUCT STANDARD PS 2 PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL USE PANELS.

**GLUED LAMINATED BEAM ELEVATION** 

-108 PERFORMANCE STANDARDS. DE-APPROVED STANDARD OR PUBLICATION. APPROVAL MUST BE OBTAINED FROM W.S.E. STRUCTURAL ENGINEERS. L BE 5/8" APA RATED 40/20, EXPOSURE 1 SHEATHING, UNLESS NOTED OTHERWISE ON THE DRAWINGS. L BE 7/16" APA RATED 24/16, EXPOSURE 1 SHEATHING, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

OR SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORTS AND A 1/8" GAP AT INLESS RECOMMENDED OTHERWISE BY THE PANEL MANUFACTURER. S NOT SPECIFICALLY REQUIRED FOR THE ROOF SHEATHING, PLY CLIPS OR TONGUE AND GROOVE PLYWOOD SHALL BE

ING SHALL BE UNBLOCKED UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. SUB-FLOOR SHEATHING OWN TO THE SUPPORTING MEMBERS AND GLUED AT THE TONGUE AND GROOVE JOINT WHEN PROVIDED. COMMON NAILS EXCEPT AT ROOF SHEATHING WHERE RING SHANK NAILS SHALL BE USED. GALVANIZED NAILS SHALL NENTLY EXPOSED EXTERIOR AREAS. GALVANIZED NAILS SHALL BE HOT DIPPED OR TUMBLED ONLY. REATED SHEATHING SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED, UNLESS OTHERWISE SPECIFIED BY

### SAWN LUMBER: 1. ALL SAWN LUMBER SHALL CONFORM TO THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU GRADING RULES. LUMBER SHALL BE OF THE SPECIES AND GRADE SHOWN BELOW:

<u>MEMBER</u>	<u>GRADE</u>	
2X & 4X FRAMING	DOUGLAS FIR-LARCH NO. 2	
5X & GREATER BEAMS	DOUGLAS FIR-LARCH NO. 1	
POSTS/ COLUMNS	DOUGLAS FIR-LARCH NO. 1	
T&G DECKING	DOUGLAS FIR-COMMERCIAL DEX	

ALL WALLS SHALL HAVE DOUBLE TOP PLATES AND SHALL BE SPLICED PER THE TYPICAL TOP PLATE SPLICE DETAIL, UNLESS NOTED OTHERWISE. TOP PLATES AT WALL INTERSECTIONS SHALL BE LAPPED AND NAILED WITH (3) 16D NAILS.

- HOLES FOR BOLTS SHALL BE DRILLED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
- UNDER THE BOLT HEADS AND NUTS THAT BEAR DIRECTLY ON THE WOOD. ALL NUTS SHALL BE TIGHTENED AT THE TIME OF INSTALLATION AND RE-TIGHTENED IF NECESSARY, DUE TO WOOD SHRINKAGE, PRIOR TO CLOSE-IN OR AT THE COMPLETION OF THE PROJECT. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-2012.
- DRILLING, CUTTING AND NOTCHING OF JOISTS SHALL BE IN CONFORMANCE WITH 2012 IBC 2308.4.2.4 CUTS/ NOTCHES IN THE TOP AND 8. BOTTOM SHALL NOT BE DEEPER THAN ONE-SIXTH THE JOIST DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF JOISTS, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE JOIST DEPTH. DRILLING, CUTTING AND NOTCHING IN EXCESS OF THESE LIMITS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- DRILLING/ CUTTING AND NOTCHING OF STUDS SHALL BE IN CONFORMANCE WITH 2018 IBC AND 2308.5.9 AND 2308.5.10 CUTS/ NOTCHES SHALL NOT EXCEED 25% THE WIDTH OF THE STUD. HOLES BORED IN STUDS SHALL NOT EXCEED 40% THE WIDTH OF THE STUD. DRILLING, CUTTING AND NOTCHING IN EXCESS OF THESE LIMITS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- WOOD SYMBOLS:



11. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE PER THE NAILING SCHEDULE BELOW:

NAIL TYPE	SHANK DIAMETER	MINIMUM PENETRAT
6D	0.113	1.13
8D	0.131	1.31
10D	0.148	1.48
16D	0.162	1.62

## NAILING SCHEDULE

10.

Α.	JOIST SITTING ON SILL OR GIRDER

В.	BRIDGING TO JOIST
C.	TOP PLATE TO STUD

Р		
υ.	3100 10 3	

- E. DOUBLE STUDS
- DOUBLE TOP PLATES BETWEEN SPLICE NAILING
- DOUBLE TOP PLATES EACH SIDE OF SPLICED PLATE BLOCKING TO TOP PLATE
- RIM JOIST TO TOP PLATE OR SILL PLATE
- CONTINUOUS (2) & (3) PIECE HEADERS
- CEILING JOIST LAPS OVER PARTITIONS
- RAFTER TO TOP PLATE OR SILL PLATE
- BUILT-UP CORNER STUDS 16D @ 24" O.C. М. TONGUE & GROOVE DECKING (2) 16D @ EA. BEARING N.
- Ο. CROSS BRIDGING (2) 10D EA. END

## MANUFACTURED WOOD I-JOISTS:

- STANDARD FOR APA EWS I-JOISTS.
- PROVIDED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- ALL ROOF, FLOOR JOISTS AND BRIDGING SHALL BE DESIGNED TO RESIST THE GRAVITY FORCES SHOWN BELOW: 3.

ROOF	
ROOF SNOW LOAD	25 PS
ROOF DEAD LOAD	20 PS
ROOF NET UPLIFT (WIND, ULT.)	REFE

4. JOISTS SHALL BE DESIGNED TO MEET THE FOLLOWING DEFLECTION CRITERIA:

LOADING	<b>DEFLECTION LIMIT</b>
ROOF LIVE LOAD	L /240
ROOF TOTAL LOAD	L/180

- UNITS, AND OTHER ADDITIONAL LOADS PRIOR TO JOIST FABRICATION.
- DO NOT DRILL OR NOTCH JOIST MEMBERS WITHOUT WRITTEN APPROVAL OF THE JOIST MANUFACTURER AND THEIR ENGINEER. THE CONTRACTOR/ JOIST MANUFACTURE SHALL PROVIDE SHOP DRAWING WITH THE FOLLOWING INFORMATION: Α.
  - OR CONNECTIONS TO THE SUPPORTING STRUCTURE. SUPPORTING CALCULATIONS FOR THE TRUSS SHOP DRAWINGS. BOTH THE SHOP DRAWINGS AND THE CALCULATIONS SHALL BEAR B.
- THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF OREGON. 8.
- MOUNT CONDITIONS AND ITS TYPE HANGERS AT TOP FLANGE ONLY CONDITIONS. 9.
- STRUCTURAL PLANS OR DETAILS DUE TO THE SUBSTITUTION OF THEIR PRODUCT. 10. ALTERNATIVE PRODUCTS AND DESIGN MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO BID 11. I-JOIST/ OPEN WEB SYMBOLS:



# **DRAWING INDEX**

ALL SAWN LUMBER SHALL CON	IFORM TO THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU		
GRADING RULES. LUMBER SHA	ALL BE OF THE SPECIES AND GRADE SHOWN BELOW:	S0.01	GENERAL STRUCTURAL
MEMBER	GRADE		NOTES & DRAWING INDEX
2X & 4X FRAMING	DOUGLAS FIR-LARCH NO. 2	S0 02	ΔΒΒΒΕΥΙΔΤΙΩΝς & SYMBOLS
5X & GREATER BEAIVIS		30.02	
T&G DECKING	DOUGLAS FIR-LARCH NO. 1 DOUGLAS FIR-COMMERCIAL DEX	S2.11	FOUNDATION PLAN
ALL LUMBER IN CONTACT WITH	H THE GROUND, CONCRETE OR CMU SHALL BE PRESSURE TREATED. CONTRACTOR MAY SUBMIT FOR	S2.21	<b>ROOF FRAMING PLAN</b>
APPROVAL, A MOISTURE BARRI	IER IN-LIEU OF THE PRESSURE TREATED WOOD.	62.04	
ALL METAL HARDWARE AND FF	RAMING ACCESSORIES SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR AN APPROVED	53.01	SHEAR WALL PLAN
EQUAL. SUBSTITUTION OF AN	APPROVED EQUAL SHALL NOT BE MADE WITHOUT THE APPROVAL OF THE ENGINEER. THE SUBMITTAL SHALL	53 02	SHEAR WALL DETAILS
INCLUDE DOCUMENTATION SH	IOWING THE ALLOWABLE LOADS OF THE SPECIFIED SIMPSON TIEM ALONG WITH TABULATED ALLOWABLE	33.0E	
HOLES SHALL BE FILLED WITH T	THEMS. ALL THEMS SHALL BE INSTALLED PER THE MANUFACTURERS INSTALLATION REQUIREMENTS. ALL NAIL	<b>S5.01</b>	STRUCTURAL DETAILS -
WHERE FRAMING HANGERS AR	RE REQUIRED BUT ARE NOT SPECIFICALLY SIZED, THE FOLLOWING SIZES SHALL BE USED. SLOPE, SKEW, TURN		
IN FLANGES AND PROVIDE TOP	FLANGE HANGERS AS REQUIRED FOR THE SPECIFIC CONDITIONS AT THE END OF THE MEMBER.		FOUNDATION
		S6.01	<b>STRUCTURAL DETAILS -</b>
MEMBER	HANGER		ED A NAINIC
2X & 3X MEMBERS	U TYPE HANGERS		FRAMING
4X MEMBERS	HU TYPE HANGERS	CC 03	
6X MEMBERS	HUIF IYPE HANGERS	36.02	STRUCTURAL DETAILS -
I-JOIST MEMBERS	MIT HANGERS		FRAMING
GLU-LAM MEMBERS	LEG HANGERS		

ALL BOLTS, CARRIAGE BOLTS, LAG SCREWS, EXPANSION BOLTS AND EPOXY BOLTS SHALL BE INSTALLED WITH STANDARD CUT WASHERS

<u> FION - INCHES</u>

(3) 8D TOENIALS, EA. SIDE (2)8D TOENAILS, EA. SIDE, EA. END (2) 16D (2) 16D END NAILS OR (4) 8D TOENAILS 16D @ 24" O.C. 16D @ 16" O.C. (8) 16D (3) 8D TOENAILS EACH SIDE 8D TOENAILS @ 6" O.C. 16D @ 16" O.C. ALONG EA. EDGE (3) 16D FACE NAILS (3) 8D TOENAILS EA. SIDE

IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ENGINEERING FOR THE MANUFACTURED WOOD I-JOISTS/ OPEN WEB JOISTS. THE DESIGN SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER FOR APPROVAL. THE JOISTS SHALL BE OF THE SAME SIZE AND TYPE AS SHOWN ON THE DRAWINGS. THE JOISTS SHALL BE MANUFACTURED IN CONFORMANCE WITH APA EWS STANDARD PRI-400, PERFORMANCE

BRIDGING, BLOCKING, HANGERS AND OTHER ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND FUNCTION OF THE JOISTS SHALL BE

F (PLUS ADDED DRIFT SNOW LOADS IF SHOWN ON PLANS)

RENCE LATERAL CRITERIA C&C PRESSURE TABLE

CONTRACTOR SHALL VERIFY ALL WEIGHTS AND LOCATIONS OF LOADS DUE TO ROOF TOP MECHANICAL EQUIPMENT, PIPING, ELECTRICAL

JOIST LAYOUT, SIZE, SPACING, AND GRADE OF ALL MEMBERS ALONG WITH ANY DETAILING REQUIRED FOR THE TRUSS CONNECTIONS

WHERE JOIST HANGERS ARE REQUIRED BUT NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS, IUS TYPE HANGERS SHALL BE USED AT FACE

IF ANOTHER I-JOIST/ OPEN WEB JOIST PRODUCT IS TO BE SUBSTITUTED, THE SUBSTITUTED PRODUCT MUST BE EQUAL OR BETTER IN STRENGTH, STIFFNESS, AND PERFORMANCE AS THE PRODUCT SPECIFIED FOR THIS PROJECT. THE SUPPLIER SHALL BE RESPONSIBLE FOR THE



# ABBREVIATIONS

#	NUMBER OR POUNDS	L OR 2L	ANGLE OR DOUBLE
&	AND	LB	CELLULAR BEAM
Ø	AT	LD	DEVELOPMENT LE
C		LLH	LONG LEG HORIZO
A.B.	ANCHOR BOLT	LLV	LONG LEG VERTICA
ADD'L	ADDITIONAL	LOC	LOCATION
ADJ.	ADJACENT	LONG.	LONGITUDINAL
ALT.	ALTERNATE	L.P.	LOW POINT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LS	LAP SPLICE
AOR	ARCHITECT OF RECORD	LSH	LONG SIDE HORIZO
APPROX.	APPROXIMATE	LSV	LONG SIDE VERTIC
ARCH.	ARCHITECTURAL DOCUMENTS	LSL	LAMINATED STRAN
ASC	AREA OF STEEL CORE	LT	LIGHT
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	I VF	I OW-VELOCITY FA
AWG	AMERICAN WIRE GAUGE	I VI	I AMINATED VENE
A.W.S	AMERICAN WELDING SOCIETY		
		М	MISCELLANEOUS S
BF	BRACED FRAME	MAX.	MAXIMUM
BLDG	BUILDING	M.B.	MACHINE BOLT
BLKG	BLOCKING	MC	CHANNEL (OTHER
BM	BFAM	MFCH.	MECHANICAL
B.O.	BOTTOM OF	MEP	MECHANICAL, FLF
BTM	BOTTOM	MF	MOMENT FRAME
BRB	BUCKLING RESTRAINED BRACE	MFR	MANUFACTURER
BRBF	BUCKLING RESTRAINED BRACED FRAME	MIN.	MINIMUM
BRBI		MISC	MISCELLANEOUS
С	CHANNEL (AMERICAN STANDARD)	M.O.	MASONRY OPENIN
CDF	CONTROLLED DENSITY FILL	MTL	METAL
CG	CENTER OF GRAVITY		
CIP	CAST-IN-PLACE	Ν	NORTH
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT	(N)	NEW
CJP	COMPLETE JOINT PENETRATION	Ň.ŕ.	NEAR FACE
CL or ⊈	CENTERLINE	N.I.C.	NOT IN CONTRACT
CLR.	CLEAR	No.	NUMBER
CMU	CONCRETE MASONRY UNIT	NOM.	NOMINAL DIAMFT
COL.	COLUMN	N.S.	NEAR SIDF
CONC.	CONCRETE	N.T.S	NOT TO SCALE
CONN.	CONNECTION		
CONT.	CONTINUOUS	O.C.	ON CENTER
CP			
CI	com left fenerion	OPP	
Ч	PENNY (NAIL SIZE) or REINFORCING BAR DIAMETER	OWI	
		0003	
DBI	DOUBLE	ΡΔΕ	
		PC PCS	
DIA or Ø	DIAMETER	PDF	POWDER DRIVEN F
DIAG	DIAGONAL	PFRP	
DIAG. DIM		PI	PLATE
DIST	DISTANCE	PI F	
DN	DOWN	PP	PARTIAL PENETRA
do	DITTO OR REPEAT	PB	PAIR
uu		PSI	
(F)	FXISTING	PSF	POUNDS PER SOU
FA	FACH	PSI	PARALLEL STRAND
F F	ΕΛΟΗ ΕΔΟΕ	PT	POINT
F I	EXENTIAL	РТ	PRESSURE-TREATE
FI	ΕΙΕΥΔΤΙΟΝ	1.1.	TRESSORE TREATE
	ELECTRICAL	B or BAD	BADILIS
ELEC. FLFV	FLEVATOR	R A D	
EMBED	EMBEDMENT	REBAR	
FOR	ENGINEER OF RECORD	RFF	REFER TO REFERE
FO	FOUAL	REINE	REINFORCEMENT
FOUIP.	FOUIPMENT	RFO'D	REQUIRED
FS	FACH SIDE	RFT	RETURN
F W	FACH WAY	REV	REVISE or REVISIO
FXP	FXPANSION	RO	ROUGH OPENING
EXT.	EXTERIOR		
		S.C.	SLIP CRITICAI
F.F.	FAR FACE	SIM.	SIMILAR
FIN.	FINISH(ED)	S.M.S.	SHEET METAL SCR
FL. or FLR	FLOOR	S.O.G.	SLAB-ON-GRADF
F.O.	FACE OF	SOMD	SLAB-ON-METAL D
F.O.C.	FACE OF CONCRETE	SPEC.	SPECIFICATION
F.O.M.	FACE OF MASONRY	SQ.	SQUARE
F.O.S.	FACE OF STUDS	SS or SST	STAINLESS STEEL
FRP	FIBER REINFORCED POLYMER	STD	STANDARD
F.S.	FAR SIDE	STL	STEEL
FT	FOOT or FEET	STRUCT.	STRUCTURAL
GA.	GAUGE	Т	TON, TONS
GALV.	GALVANIZED	T&B	TOP AND BOTTON
GB	GRADE BEAM	T&G	TONGUE AND GRC
GL	GLUED-LAMINATED MEMBER	THRU	THROUGH
		Τ.Ο.	TOP OF
HORIZ.	HORIZONTAL	Т.О.С.	I UP OF CONCRETE
H.P.	HIGH POINT	т.о.м.	TOP OF MASONRY
HP	BEARING PILE	T.O.S.	TOP OF STEEL
H.S.B.	HIGH STRENGTH BOLTS	T.O. SLAB	TOP OF STRUCTUR
HSS	HOLLOW STRUCTURAL SECTION	TRANS.	TRANSVERSE
HT	HEAVY TIMBER	TYP.	TYPICAL
I.D.	INSIDE DIAMETER	U.N.O.	UNLESS NOTED OT
INFO	INFORMATION	URM	UNREINFORCED M
			VEDTICA
K	KIP, KIPS	VEKI.	
K.U.		۷.۱.۲.	VEKIFY IN FIELD
KSI	KIPS PEK SQUAKE INCH		
		νν.Γ. \λ/ςf	
		\\/\//E	

# ANNOTATION SYMBOLS



DINAL E HORIZONTAL

E VERTICAL ED STRAND LUMBER (TIMBER STRAND) OCITY FASTENER

ED VENEER LUMBER (MICROLAM) NEOUS SHAPE

BOLT . (OTHER THAN AMERICAN STANDARD)

ICAL, ELECTRICAL, PLUMBING DOCUMENTS FRAME

NEOUS Y OPENING

ONTRACT

DIAMETER CALE

DIAMETER (DIM.)

HAND B JOIST ACTUATED FASTENER

CES DRIVEN FASTENER CULAR

PER LINEAR FOOT ENETRATION

PER SQUARE FOOT PER SQUARE INCH STRAND LUMBER (PARALLAM)

E-TREATED or POST TENSIONED

I. DOCUMENTS ING BAR , REFERENCE EMENT

REVISION PENING CAL

TAL SCREW GRADE METAL DECK ATION

BOTTOM

AND GROOVE

ONCRETE 1ASONRY TEEL TRUCTURAL SLAB

IOTED OTHERWISE DRCED MASONRY

FIELD

INT

XS XXS

TRUCTURAL ENGINEERING RAL TEE (CUT FROM WIDE FLANGE) NIRE FABRIC

EXTRA STRONG (STRUCTURAL PIPE) DOUBLE-EXTRA STRONG (STRUCTURAL PIPE)



ELEVATION LINE





## REFERENCED ELEVATION



- ELEVATION OF POINT ABOVE DATUM (VERIFY WITH ARCH)

– REVISION NUMBER, REFER TO **REVISION HISTORY ON TITLE** BLOCK OF EACH SHEET



**REVISION** 





- VIEW REFERENCE ----- DIRECTION OF VIEW SHEET REFERENCE



DETAIL PLAN VIEW - VIEW REFERENCE



- SHEET REFERENCE EXTENT OF DETAIL

**ELEVATION** 



 DIRECTION OF VIEW — SHEET REFERENCE

## **FOUNDATIONS**



 $\langle \mathbf{x} \rangle$ 

INDICATES CONTROL/CONSTRUCTION JOINTS IN SLABS OR WALLS.

INDICATES TOP OF FOOTING ELEVATION RELATIVE TO LOWEST ADJACENT SLAB. INDICATES FOOTING TYPE REFER TO FOOTING SCHEDULE.









OPENING (PLAN OR ELEVATION)



SHEAR WALL (ELEVATION)



MEMBER LOADING





WORK POINT OF CONNECTION: POINT WHERE FORCES ARE RESOLVED.





REFER TO STEEL DETAILS

INDICATES A DISTANCE OF ZERO (0")

INDICATES BOLTED BEAM SHEAR PLATE CONNECTION TYPE.

AS INDICATES ANGLE STRUT BRACE TO O.W.J. TOP CHORD,

### MOMENT RESISTING CONNECTIONS (PLAN)



MOMENT-RESISTING BEAM-TO-COLUMN CONNECTION, REFER TO STEEL DETAILS, CANTILEVER MEMBER MATCHES BACK

DEPTH OF DEPRESSION IN SLAB

- BOUNDARY OF DEPRESSION IN SLAB, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, U.O.N.

INDICATES FLOOR PENETRATION FOR FIRE

INDICATES SNOW DRIFT/ LOADS IN ADDITION TO BASE "ROOF SNOW LOAD" LISTED IN THE SNOW LOADING SECTION OF THE GENERAL

INDICATES SNOW SLIDING LOADS IN ADDITION TO BASE "ROOF SNOW LOAD" LISTED IN THE SNOW LOADING SECTION OF THE GENERAL

BEAM-TO-BEAM MOMENT CONNECTION, REFER TO STEEL DETAILS









DISTANCE OF CL OF OPENING TO MID-DEPTH OF BEAM, NO VALUE

F INDICATES FULL-DEPTH STIFFENER CONNECTION.

S0.02 BLRB ARCHITECTS, P.S.





**BEAM DESIGNATIONS (PLAN)** 

W16x31 c=X"





X"xX" - SIZE OF BEAM OPENING

— LOCATION OF CL OF OPENING



SPAN MEMBER, U.O.N.

X

DAMPER. REF. MEP DRAWINGS FOR SIZE.







S

SYMBOL

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BREVIATIONS

AB

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				D / Industrial
		FOUNDATION PLAN NOTES		EN 1 SW lite 13
1.		DO NOT USE STRUCTURAL DRAWINGS ALONE FOR BUILDING LAYOUT. DO NOT SCALE THESE DRAWINGS MANUALLY OR ELECTRONICALLY. COORDINATE LOCATIONS OF ALL STRUCTURAL ELEMENTS, INCLUDING BUT NOT LIMITED TO, COLUMNS, WALLS, SLAB EDGES, DEPRESSIONS AND OPENINGS WITH ARCHITECTURAL DRAWINGS AND RESOLVE ANY CONFLICTS BETWEEN DRAWINGS OR ELEMENTS PRIOR TO CONSTRUCTION. A REGISTERED SURVEYOR SHALL PERFORM BUILDING LAYOUT AND LOCATION OF ALL STRUCTURAL ELEMENTS AT ALL LEVELS. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS/ ELEVATIONS NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR CROSS REFERENCING ALL DIMENSIONS/ ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS NOTIFY ARCHITECT / ENGINEER OF RECORD IF THERE ARE ANY DISCREPANCIES.		I PORTLAND I B 621 SW Morrison St. 72 Suite 950
2.		INDICATES CONCRETE STEMWALL PER PLAN WITH BEARING WALL, 2x6 STUDS @ 16" O.C., U.N.O.	cts	Шо
3.		INDICATES INTERIOR BEARING WALL, 2x6 STUDS @ 16" O.C., U.N.O.	te	<b>(AN</b> iversid
4.		INDICATES INTERIOR NON-BEARING WALL PER ARCHITECT.	i L	<b>POP</b> 5 W Ri ite 500
5.		INDICATES SHEAR WALL LOCATION. REFERENCE SHEAR WALL PLAN 1/ S3.01 FOR ADDITIONAL INFORMATION (INCLUDING ANCHOR BOLT SPACING REQUIREMENTS).	arc	<b>1 S</b>
6.	x sx.x	INDICATES STRUCTURAL FRAMING DETAIL. REFERENCE STRUCTURAL DETAIL SHEET.	m	
7.	$\overbrace{\mathbf{x}}$	INDICATES FOOTING TYPE, REFERENCE FOOTING SCHEDULE.	מן	<b>CON</b> Pacific 700
8.	$\boxtimes$	TYPICAL HEADER SUPPORT TO BE: (1) 2x TRIMMER & (1) 2x KING @ OPENING LESS THAN 6'-0" AND (2) 2x TRIMMERS & (2) 2x KINGS @ OPENINGS GREATER THAN 6'-0", U.N.O.	Β	<b>TA(</b> 1250 Suite
9.		PROVIDE SOLID 2x STUDS @ ALL BEAM & GIRDER TRUSS BEARING POINTS UNLESS DETAILED OR NOTED OTHERWISE. FOR BEAMS FRAMING INTO WALLS, FORM BEAM POCKET WITH ADDITIONAL STUDS ALONG SIDE OF BEAM AND FACE NAIL WITH (5) 16d NAILS ON EACH SIDE (MINIMUM).		

10. REFERENCE GEOTECH REPORT FOR SUBGRADE REQUIREMENTS.

FOOTING SCHEDULE					
	SIZE (WIDTH x LENGTH)	"T"	REINFORCING		
$\langle \mathbf{A} \rangle$	1'-6" x CONT.	10"	(2) #4 CONT., BTM.		
B	2'-0" x CONT. (THICKENED SLAB)	12"	(3) #4 CONT., BTM.		
< <u>c</u> >	2'-6" x 2'-6" (THICKENED SLAB @ SIM.)	12"	(3) #4 EA. WAY @ BTM.		
	3'-0" x 3'-0" (THICKENED SLAB)	12"	(4) #4 EA. WAY @ BTM.		
NOTE: TOTAL FOOTING DEPTH @ THICKENED SLABS INCLUDES SLAB THICKNESS					

ALL HOLDOWN ANCHOR BOLTS SHOWN ON THE FOUNDATION PLAN REPRESENT A
GENERAL LOCATION AND MUST BE VERIFIED BASED ON SPECIFIED POST SIZE WITH
RELATION TO ROUGH OPENING/ EDGE OF WALL LOCATIONS. REFERENCE ARCHITECTURAL
DRAWINGS FOR DIMENSIONAL VERIFICATION. IT IS THE GENERAL CONTRACTOR'S
RESPONSIBILITY TO ENSURE THESE ARE PLACED PRIOR TO THE FOUNDATION POUR EPOXIED ANCHOR BOLTS ARE NOT AN EQUAL SUBSTITUTE. FAILURE TO PLACE HOLDOWN
BOLTS IN THE CORRECT LOCATION WILL LIKELY RESULT IN CUTTING/ REMOVAL OF
FOUNDATION ELEMENTS, DOWELING & REPOUR OF AREAS REMOVED. ADDITIONAL FEES
MAY INCUR FOR REDESIGNING OF FOUNDATIONS & REPLACEMENT HOLDOWNS.













	SHEAR	WALL SCHEDULE			END 1 SW Indust lite 130 8 97702
SYMBOL	SHEATHING/ ATTACHMENT (SEE NOTE 9)	SILL PL & SILL ATTACHMENT TO FOUNDATION	NOTES		<b>D D D</b> St. 72 OF
	7/16" SHEATHING w/ 8d @ 6" O.C. EDGES, 12" O.C. FIELD. ALL EDGES BLOCKED	2x P.T. SILL PL. w/ 5/8" Ø x 10" A.B.'s @ 48" O.C. (5/8" Ø TITEN HD SCREW ANCHOR w/ 4 1/2" MIN. EMBED IN INTERIOR SLAB FTG.) w/ PLATE WASHERS PER NOTE 11	-SILL PLATE- SILL TO RIM - 16d @ 6" O.C. RIM TO PLATE - SIMPSON A35 CLIPS @ 32" O.C.		PORTLANI 621 SW Morrison Suite 950 OR 97205
<u>SHEAF</u>	R WALL NOTES			L S	—
1. X	<ul> <li>INDICATES EXTENT OF SHEAR WALL. PR</li> <li>WALL. HOLDOWNS INDICATE ON PLANS</li> <li>RECOMMENDATIONS.</li> </ul>	OVIDE HOLDOWNS AS CALLED OUT ON P S ARE BY "SIMPSON STRONG-TIE CO." INS	LANS @ EACH END OF SHEAR TALL AS PER MANUF.	itec	<b>XANE</b> Riverside 00 201
2.	IF A.B. SPACING IS GREATER THAN SHEA OTHERWISE.	AR WALL, PLACE (1) A.B. WITHIN 12" OF E	ACH END, UNLESS NOTED	L L	<b>I SPC</b> 505 W Suite 5 WA 98
3.	THE CAPACITY VALUES ARE APPLICABLE	TO STUDS OF SPECIES GROUP II (DOUGL	AS FIR-SOUTHERN PINE).	a a	<b>4</b> 0
4.	PANEL EDGES FOR TYPE "1" & "2" WALI "3" & "4" WALLS SHALL BE BACKED WIT (STAGGERED).	LS SHALL BE BACKED WITH 2x NOMINAL (I TH 3x NOMINAL OR (2) 2x STITCHED TOGE	MIN.). PANEL EDGES FOR TYPE THER W/ 10d NAILS @ 3" O.C.		ACOMA 50 Pacific Ave tite 700 4 98402
5.	ALL SHEATHING NAILS REFERENCED AR ARE TO BE SINKER NAILS (i.e. 16d=0.144 REQUIRE SPACING ADJUSTMENTS AND PENETRATIONS INTO SUPPORT FRAMIN	E COMMON WIRE NAILS (i.e. 8d 0.131") S 8"). VALUES OF THEIR STANDARD CONSTR MUST BE APPROVED BY WSE PRIOR TO L IG. 8d=1.5", 10d=1.625", 16d=1.625".	OLE PLATE NAILS REFERENCED CUCTION FASTENERS WILL JSE. MINIMUM NAIL		12, Su W/V
6.	DO NOT PENETRATE SURFACE PLY OF S	HEATHING WITH NAIL HEAD.			
7.	APA RATED WALL SHEATHING C-D, C-C COVERED IN 2019 OSSC CH. 35 STANDA	SHEATHING, PLYWOOD PANEL SIDING, OS ARDS.	SB, AND OTHER GRADES		
8.	SHEATHING FACE GRAIN CAN BE APPLIE SPACED @ 16" O.C. OR LESS. WHERE ST PERPENDICULAR TO STUDS.	ED PERPENDICULAR OR PARALLEL TO STU TUDS ARE SPACED GREATER THAN 16" O.C	IDS PROVIDED THE STUDS ARE 2. APPLY SHEATHING	Stamp	
9.	SHEATHING MAY BE APPLIED AT EITHEF	R SIDE OF WALL UNLESS REQ'D AT BOTH S	IDES.		
10.	WALL SHEATHING MUST BE EDGE NAIL	ED @ STUDS ATTACHED TO HOLDOWNS, I	FULL HT.		
11.	PER ANSI/AF&PA SDPWS-15, SECTION 4 FABRICATED EQUIVALENT) WITH STANI WASHER SHALL BE WITHIN 1/2" OF EDO REQUIRED @ BOTH SIDES, ALTERNATE S	4.3.6.4.3. PROVIDE SIMPSON BPS-6 SLOTT DARD CUT WASHERS BETWEEN PLATE WA GE OF SILL PLATE ON THE SIDE WITH SHEA SIDES.)	TED PLATE WASHERS (OR SHER & NUT. EDGE OF PLATE ATHING (WHERE SHEATHING IS	<b>VISIONS</b> Description	
12.	ALL HOLDOWN ANCHOR BOLTS SHOWI MUST BE VERIFIED BASED ON SPECIFIEI LOCATIONS. REFERENCE ARCHITECTUR	N ON THE FOUNDATION PLAN REPRESENT D POST SIZE WITH RELATION TO THE ROUG AL DRAWINGS FOR DIMENSIONAL VERIFIC	A GENERAL LOCATION AND GH OPENING/EDGE OF WALL CATION.	RAWING RE	
13.	REFERENCE SHEET S3.02 FOR TYPICAL S	HEAR WALL DETAILS.			

ALL HOLDOWN ANCHOR BOLTS SHOWN ON THE FOUNDATION PLAN REPRESENT A GENERAL LOCATION AND MUST BE VERIFIED BASED ON SPECIFIED POST SIZE WITH RELATION TO ROUGH OPENING/ EDGE OF WALL LOCATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL VERIFICATION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE ARE PLACED PRIOR TO THE FOUNDATION POUR -EPOXIED ANCHOR BOLTS ARE NOT AN EQUAL SUBSTITUTE. FAILURE TO PLACE HOLDOWN BOLTS IN THE CORRECT LOCATION WILL LIKELY RESULT IN CUTTING/ REMOVAL OF FOUNDATION ELEMENTS, DOWELING & REPOUR OF AREAS REMOVED. ADDITIONAL FEES MAY INCUR FOR REDESIGNING OF FOUNDATIONS & REPLACEMENT HOLDOWNS.













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## **GENERAL NOTES**

- 1. THE SCOPE OF THE PLUMBING WORK CONSISTS OF WORK SHOWN ON THE PLANS AND AS DESCRIBED IN THE SPECIFICATIONS. IN CASE OF CONFLICT, THE SPECIFICATIONS SHALL GOVERN. PROVIDE A COMPLETE & FUNCTIONAL SYSTEM.
- PERFORM ALL WORK IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND PAY FOR ALL FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION. PAY ALL ROYALTIES OR FEES REQUIRED IN CONNECTION WITH THE USE OF PATENTED DEVICES AND SYSTEMS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS, LOCATE DEVICES SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.).
- 4. COORDINATE WITH OTHER TRADES: A. REFER TO ELECTRICAL DRAWINGS AND CONFIRM ELECTRICAL CHARACTERISTICS SHOWN FOR MECHANICAL EQUIPMENT (VOLTAGE, PHASE, HZ, ETC). MATCHES THAT OF THE MECHANICAL EQUIPMENT PROVIDED
- B. PROVIDE ADEQUATE CLEARANCE OF PLUMBING WORK FROM ELECTRICAL EQUIPMENT. MAINTAIN MINIMUM ACCESS OF 6-INCHES ABOVE CABLE TRAYS AND 18-INCHES TO THE SIDE OF CABLE TRAYS. CLEARANCE ABOVE CABLE TRAY SHOULD BE 1/2 THE WIDTH AND NOT LESS THAN 6-INCHES WHEN RUNNING PARALLEL WITH CABLE TRAY. AND NOT LESS THAN 6-INCHES WHEN RUNNING PERPENDICULAR TO THE CABLE TRAY.
- ARRANGE EQUIPMENT SO THAT ACCESS CLEARANCES INDICATED BY DRAWINGS, REQUIRED BY CODES, OR RECOMMENDED BY MANUFACTURER ARE PROVIDED.
- 6. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCEPTED SUBMITTALS. INSTALL MATERIAL IN PROPER RELATION TO ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK.
- THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.
- 8. THE COMMISSIONING SPECIFICATION, INCLUDING ALL FUNCTIONAL TEST PROCEDURES, SHALL BE PROVIDED AND ENFORCED BY THE CONTRACTOR.
- PROVIDE SEISMIC RESTRAINT IN ACCORDANCE WITH OSS C AND ASCE STANDARD 7. SUBMIT CALCULATIONS BY LICENSED STRUCTURAL ENGINEER. PRODUCTS MAY CONFORM TO SMACNA SEISMIC RESTRAINT GUIDELINES.
- 10. PROVIDE A SINGLE SUBMITTAL OF ALL PLUMBING EQUIPMENT AS SPECIFIED. AS A MINIMUM, SUBMIT PRODUCT DATA FOR ALL EQUIPMENT AND FIXTURES LISTED IN ACCOMPANYING SCHEDULES FOR APPROVAL.
- 11. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 12. ARRANGEMENT OF SYSTEMS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC, AND INDICATES THE MINIMUM REQUIREMENTS FOR PLUMBING WORK. TAKE FIELD MEASUREMENTS BEFORE PREPARING SHOP DRAWINGS, OBTAIN APPROVAL OF SHOP DRAWINGS BEFORE BEGINNING FABRICATION. BE RESPONSIBLE FOR ACCURACY OF DIMENSIONS AND LAYOUT. OVERHEAD PIPING SHALL BE ARRANGED TO OBTAIN MAXIMUM HEAD ROOM.
- 13. CLEAN AND PROTECT WORK FROM DAMAGE. RESTORE DAMAGED FINISHES. COVER ENDS OF PIPING NOT ACTIVELY BEING WORKED ON.
- 14. MODIFY AND EXTEND EXISTING SERVICE TO ACCOMMODATE NEW WORK. RELOCATE EXISTING COMPONENTS AS REQUIRED FOR NEW SYSTEM. COORDINATE WITH BUILDING MANAGEMENT.
- 15. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 16. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT PRIOR WRITTEN APPROVAL
- 17. CONCEAL PIPING TO THE GREATEST EXTENT POSSIBLE
- 18. INSTRUCT OWNER IN PROPER OPERATION OF SYSTEMS.
- 19. DRAWINGS DO NOT SHOW ALL OFFSETS WHICH MAY BE REQUIRED. MAKE OFFSETS WITH FITTINGS USING THE LEAST ANGLE OF OFFSET POSSIBLE. PIPING SHALL BE ROUTED TO AVOID ALL STRUCTURAL SUPPORTS, AND COORDINATED WITH WORK OF OTHER TRADES.
- 20. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

OREGON STRUCTURAL SPECIALITY CODE (OSSC) OREGON MECHANICAL SPECIALITY CODE OREGON PLUMBING SPECIALITY CODE (OPSC) OREGON FIRE CODE OREGON STATE ENERGY CODE WITH LOCAL AMENDMENTS

## **REMODEL CONSTRUCTION NOTES**

- 1. DEMOLITION: WORK REQUIRED IS NOTED ON PLANS, VERIFY WITH ON SITE CONDITION AND OWNER, SALVAGE EQUIPMENT FOR OWNER'S USE AS NOTED.
- COORDINATE INTERRUPTIONS OF SERVICES PASSING THROUGH WORK AREA TO MINIMIZE DISRUPTION IN ADJACENT SPACES. COORDINATE WITH BUILDING OWNER.
- 3. INSTALL NEW WORK GENERALLY AS SHOWN. ADEQUATE SPACE HAS BEEN VERIFIED TO THE DEGREE POSSIBLE, BUT MAY REQUIRE MINOR RELOCATION OF SMALL CONDUIT AND CEILING WIRE. COORDINATE EXTENT OF RELOCATION WITH GENERAL CONSTRUCTION WORK.
- 4. COORDINATE WORK WITH GENERAL CONSTRUCTION TO MINIMIZE DUST & DUST MIGRATION.

## **PIPING NOTES**

SOUND TRANSMISSION.

- 1. SANITARY, WASTE, AND VENT PIPING (PLASTIC NOT ALLOWED) SHALL BE NO-HUB CAST IRON OR DWV COPPER. 2. HOT AND COLD WATER PIPING SHALL BE HARD DRAWN COPPER TUBING: TYPE L, ASSEMBLED WITH WROT
- COPPER FITTINGS AND LEAD-AND ANTIMONY-FREE SOLDER. 3. INSULATE ALL HOT AND COLD WATER PIPING WITH GLASS FIBER INSULATION WITH ALL SERVICE JACKET. USE
- HEAT BONDING TAPE TO CLOSE INSULATION; STAPLES AND PRESSURE TAPE ARE PROHIBITED. 4. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING SHUT-OFFS AND CLEAN-OUTS. PROVIDE COMPONENTS WHICH PREVENT BACK-SIPHONAGE OR CROSS-CONNECTIONS. PROVIDE ISOLATION DEVICES TO REDUCE
- 5. PROVIDE STOPS FOR EACH WATER CONNECTION TO EACH FIXTURE OR ITEM OF EQUIPMENT.
- 6. DISINFECT WATER DISTRIBUTION SYSTEM. FLUSH AND TEST ALL SYSTEMS FOR PROPER OPERATION. ADJUST SYSTEM TO PREVENT WATER HAMMER.
- 7. REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.
- 8. REFER TO CIVIL DRAWINGS FOR UTILITY WORK 5'-0" BEYOND THE BUILDING LINE.

## **ABBREVIATIONS**

A AFF ARRGT ATM	AIR ABOVE FINISHED FLOOR ARRANGEMENT ATMOSPHERE	ID IE IN INIT
BFF BFP BHP BLDG BOB	BELOW FINISHED FLOOR BACKFLOW PREVENTER BRAKE HORSEPOWER BUILDING BOTTOM OF BEAM	KW KWH
BOS BTUH	BOTTOM OF STEEL BRITISH THERMAL UNITS PER HOUR	LB LBS LWT
CAP CFM CLG CNTFGL CO CONC COND CONT	CAPACITY CUBIC FEET PER MINUTE CAST IRON CEILING, COOLING CENTRIFUGAL CLEANOUT CONCRETE CONDENSATE CONTINUE, CONTROL	MAX MBH MCA MECH MFR MIN MTR
COMP CP CTG CU FT CV CW	COMPRESSOR CIRCULATING PUMP CLEANOUT TO GRADE CUBIC FEET CONSTANT VOLUME COLD WATER	NC NEG NIC NO NTS
dB DCVA DEG DF DI	DECIBELS DOUBLE CHECK VALVE ASSEMBLY DEGREE DRINKING FOUNTAIN DE-IONIZED	OC OD OPNG ORD ORL
DIA DN DS	DIAMETER DOWN DOWNSPOUT	P PH POC POS
E EER EFF	EXISTING ENERGY EFFICIENCY RATING EFFICIENCY	P/T PVC
EL EQUIP ESP EWT EXH EXH EXIST EXIST EXP	ELEVATION EQUIPMENT EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXHAUST ELECTRIC WATER COOLER EXISTING EXPANSION	RD REF REQD RL RPBFP
EXT	EXTERIOR, EXTERNAL	RPM
F FD FDC FLA FLR FLR	FAHRENHEIT, FIRE LINE FIRE DAMPER, FLOOR DRAIN FIRE DEPARTMENT CONNECTION FULL LOAD AMPS FLOOR FIL TER	S SD SPR SS STP
FM FPM FPS FT FV	FLOW METER FEET PER MINUTE FEET PER SECOND FEET FACE VELOCITY	TEMP TOT TP TYP
ga gal galv gpm	GAGE GALLONS GALVANIZED GALLONS PER MINUTE	UON V VA VEL
HB HD HEX HOA HP HW HWC HWP HZ	HOSE BIBB HEAD HEAT EXCHANGE HAND-OFF-AUTOMATIC HORSEPOWER, HEAT PUMP HOT WATER HOT WATER CIRCULATING HOT WATER PUMP HERTZ	VFD VTR WG WH WTR

SYMBOLS LEGEND - LAB			
SYMBOL	DESC		
++	NON POTABLE COLD WATER NON POTABLE HOT WATER NON POTABLE HOT WATER RECIR LABORATORY AIR LABORATORY VACUUM		

# SYMBOLS LEGEND - MEDICAL GASES

SYMBOL	DESCF
<u> </u>	OXYGEN
—— MA ———	MEDICAL COMPRESSED AIR
—— MV ——	MEDICAL VACUUM
WAG	WASTE ANESTHETIC GAS
• MA	MEDICAL AIR OUTLET
WAGD WAG	WASTE ANESTHETIC GAS DEVICE
NO2	NITROUS OXIDE (NITROUS)
—— N2 ——	NITROGEN
CO2	CARBON DIOXIDE
ETO	ETHYLENE OXIDE
<u> </u>	MEDICAL GAS VALVE (SERVICE VA
ZVB	ZONE VALVE BOX
MAB	MEDICAL GAS ALARM BOX
<u>— М</u> А———	MEDICAL AIR PRESSURE SENSOR
·	HOSE REEL (RETRACTABLE)



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	BLRBa	TACOMA	1250 Pacific Ave Suite 700 WA 98402
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WING REVISIONS	Description		
DRA	A Date		
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	MADRAS SHELTER		CITY OF MADRAS
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BLRB ARCHITECTS, P.S.

Sheet No.

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PLUMBING SHEET INDEX			
P0.00	GENERAL NOTES, ABBREVIATIONS & SHEET INDEX		
P0.02	PLUMBING SCHEDULES		
P3.01	PLUMBING WASTE & VENT - UNDERGROUND PLAN		
P3.02	PLUMBING WASTE & VENT PLAN - FIRST FLOOR		
P4.01	PLUMBING DOMESTIC WATER & GAS PLAN - FIRST FLOOR		
P7.00	PLUMBING DETAILS		

OV	<b>ERALL WATER S</b>	<b>E</b> F	RVICE	CALCU	JLAI	ION
ITEM	DESCRIPTION		FIXTURE UNIT EACH	TOTAL UNITS (COMB)	(.75) COLD WATER	(.75) HOT WATER
1	HOSE BIBB		2.50	2.50	2.50	0.00
3	HOSE BIBB (EACH ADDITIONAL)		1.00	3.00	3.00	0.00
7	WATER CLOSET		2.50	17.50	17.50	0.00
7	LAVATORY		1.00	7.00	5.25	5.25
2	SHOWER		2.00	4.00	3.00	3.00
1	KITCHEN SINK		1.50	1.50	1.13	1.13
1	MOP SINK		3.00	3.00	2.25	2.25
1	WATER COOLER		0.50	0.50	0.50	0.00
1	WASHMACHINE		4.00	4.00	3.00	3.00
1	DISHWASHER					
	FIXTURE UNIT TOTAL			43.00	38.13	14.63
	FLOW IN GPM			48.00		20.00
	IRRIGATIONSEPARATE METER			0		
a.	MINIMUM DAILY SERVICE PRESSURE			65		psi
b.	STATIC HEAD LOSS .434 /FT X		15	6.51		psi
C.	WATER METER PRESSURE DROP			3		psi
d.	BACKFLOW PREVENTERRPBP			8		psi
e.	BOOSTER PUMPS			0		psi
f.	PRESSURE REQUIRED AT FIXTURE			30		psi
	PRESSURE AVAILABLE FOR					
	FRICTION LOSS, a - b - c - d + e - f			17.49		psi
	TOTAL EQUIVALENT PIPE LENGTH					
150	FT, PLUS FITTINGS	Х	1.3	195		ft
	MAXIMUM FRICTION LOSS					
	PRESS. AVAIL. X 100'/EQUIV. LENGTH			8.969		psi
	BUILDING COLD WATER MAIN	2"				
	BUILDING HOT WATER MAIN	1.5"				

							PLUMBING FIXTURE SCHEDULE
	DESCRIPTION		ROUGH-IN CONNECTION			TION	
MARK			V	CV	v ни	V TW	REMARKS
EWC-1	ELECTRIC WATER COOLER	1-1/2	1-1/2	2 3/8	8		ELKAY EZH20-S
WB-1	CLOTHES WASHER OUTLET BOX	2		1/2	2 1/2	2	OATEY SCS INC. CENTRO II CLOTHES WASHER OUTLET BOX AND BRACKET.
WB-2	CLOTHES DRYER OUTLET BOX						OATEY MODA GAS SUPPLY BOX, 1/2".
WC-1	WATER CLOSET, FLUSH VALVE	3	2	1/2	2		ACORN PENAL-WARE 1680
WC-2	WATER CLOSET, FLUISH VALVE	3	2	1/2	2		FLOOR MOUNTED, ADA COMPLIANT, WHITE, 1.28 GPF. WHITE SOLID PLASTIC SEAT. MCGUIRE ANGLE STOPS, RISER, WAX RING, BOLT KIT.
L-1	WALL MOUNT LAVATORY	2	2	1/2	2 1/2	2	ACORN DURA-WARE 1953LC
L-2	WALL MOUNT LAVATORY	2	2	1/2	2 1/2	2	ZURN Z5340 WALL HUNG LAVATORY, 4" CENTER FAUCET HOLES, VITREOUS CHINA, FRONT OVERFLOW, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS 802-370-317XKABCP. THERMO-MIXING VALVE: CHICAGO FAUCET MODEL 122-NF. PROVIDE FLOOR MOUNTED IN WALL CARRIER. PROVIDE MCGUIRE STOPS, SUPPLIES, TRAP, ADA WRAP.
SH-1	SHOWER	2	2	1/2	2 1/2	2	EVERFAB COMPARTMENT SHOWER. MOEN P/BL TUB/SHR VALVE. CLEVELAND CFG 4800NHCGR/45311 TUB/SHOWER TRIM. OATEY NO CAULC BRASS SHOWER DRAIN WITH STAINLESS STEEL STRAINER. MOEN HAND SHOWER.
S-1	SINK	2	2	1/2	2 1/2	2	EAGLE SR14-16-9.5-3
MS-1	MOP SINK	3	2	3/4	4 3/4	1	ACORN TSH-24-KF24-KDG3-KH36-KMH-2KWG 24" X 24" TERRAZO MOP SINK WITH HOSE AND HOSE BRACKET, MOP HANGER, WALL GUARD CHICAGO FAUCETS 445-897SRXKCCOWALL MTD FAUCET WITH HWALL BRACE.
HB-1	HOSE BIBB			1/2	2		ACORN MODEL 8140, 3/4" SINGLE TEMP HOSE BOX W/ DOOR. VANDAL RESISTANT
HB-2	HOSE BIBB			1/2	2		ACORN MODEL 8160, 3/4" NON-FREEZE INTEGRAL VACCUM BREAKER DUAL CHECK HYDRANT RECESSED W/ DOOR. VANDAL RESISTANT
FD-1	FLOOR DRAIN FD-1	3	2				SIOUX CHIEF 833 SERIES WITH 5 INCH TOP AND SHIM KIT.
GI-1	GREASE INTERCEPTOR	4					SCHEIR GB-75
REMAR 1. COO 2. MAN	KS: ORDINATE MOUNTING HEIGHTS AN IUFACTURER LISTED IS BASIS OF I	D HAN	iding N. Pf		H AR		CTURAL DRAWINGS AND FIELD CONDITIONS. OR EQUAL APPROVED BY OWNER.

					EQ	UIPMENT SC	HE	DU	LE				
Equip. No	LOCATION	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	ТҮРЕ	CONNECTION SIZE (IN)	GPM	FT HD	HP	FLA	V/PH/HZ	WEIGHT (LBS)	
WH-1	111 - CLOSET	BLDG HOT WATER	BOCK	OT199N	100 GALLON STORAGE	1 1/2" WATER, 3/4" NAT GAS	-	-	-		120/1/1960	670 EMPTY	199,900 B <sup>-</sup>
ET-2	111 - CLOSET	EXPANSION TANK	AO SMITH	ST-12C-DD	ASME DIAPHRAGM	3/4"	-	-	-	-	-	15	6.4 GAL V PIPING.
RCP-1	111 - CLOSET	HOT WATER RECIRCULATION PUMP	B&G	ECOCIRC 20-18	CIRCULATOR				0-70 WATTS	-	120/1/60	-	PROVIDE
REMARKS:	EMARKS: INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMONDATIONS												

SANITARY CALCULATION							
QUANTITY	DESCRIPTION UNITS PER PUBLIC GENERAL UNIT						
7	WATER CLOSET	4.00	28.00				
7	LAVATORY 1.00 7.00						
2	SHOWER 2.00 4.00						
1	KITCHEN SINK 2.00 2.00						
1	MOP SINK	3.00					
1	WATER COOLER 0.50 0.5						
1	WASHMACHINE 3.00 3.00						
2	2 FLOOR SINK 2.00 4.00						
7	FLOOR DRAIN	2.00	14.00				
TOTAL FIXTURE UNITS 65.50 MINIMUM BUILDING GRAVITY DRAIN SIZE = 4" AT 1/4"/FT SLOPE MINIMUM BUILDING GRAVITY DRAIN SIZE = 4" AT 1/8"/FT SLOPE							

DSE THREADS, INTEGRAL VACUUM BREAKER, INTEGRAL CHECK STOPS IN SHANKS, BUCKET HOOK,



BTUH INPUT. PROVIDE ACID NEUTRALIZER

VOL, 3.2 GAL ACCEPTANCE,150 PSI RATING, 12" X 18", NO VALVE BETWEEN TANK AND COLD WATER

E STAINLESS STEEL PUMP HOUSING.



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GROUP

SAZAN# 646-22028





3/17/2022 2:59:25 PN



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FLEXIBLE CONNECTION (TYP) INCOMPRESSIBLE

GAS VALVE DIRT LEG-

> NG >

> COMBUSTION >

BALANCING VALVE-

PRESSURE GAUGE CHECK VALVE (TYP)-> cw >

ISOLATION VALVE < HW <

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EXPANSION TANK

# **1** GAS-FIRED WATER HEATER WITH RECIRC. PUMP DIAGRAM

## **GENERAL NOTES**

- MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION. OREGON STRUCTURAL SPECIALTY CODE (OSSC)
- OREGON MECHANICAL SPECIALTY CODE (OMSC) OREGON PLUMBING SPECIALTY CODE (OPSC)
- OREGON FIRE CODE (OFC) OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL MECHANICAL MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION. PAY ALL ROYALTIES OR FEES REQUIRED IN CONNECTION WITH THE USE OF PATENTED DEVICES AND SYSTEMS.
- 3. UPON CONTRACT AWARD, CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANY TO SCHEDULE UTILITY CONNECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY WORK, SECURE ALL PERMITS AND INSPECTIONS
- 4. ALL CONNECTIONS TO BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY COMPANY AND THE CONSTRUCTION MANAGER. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED BUILDING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.
- 5. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOBSITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFEREED TO THE ENGINEER FOR ADJUDICATION.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID FOR THE PROPOSED WORK. HE SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF BIDS IN WRITING.
- 8. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS, LOCATE MECHANICAL DEVICES SUCH AS TEMPERATURE SENSORS, HUMIDISTATS, PANELS, ETC. SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT, DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.).
- 9. COORDINATE WITH OTHER TRADES: A) REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT (VOLTAGE, PHASE, HZ, ETC). B) PROVIDE ADEQUATE CLEARANCE OF MECHANICAL WORK FROM ELECTRICAL ITEMS. MAINTAIN MINIMUM ACCESS OF 6-INCHES ABOVE ELECTRICAL CABLE TRAYS AND 18-INCHES TO THE SIDE OF CABLE TRAYS.
- 10. DUCTING AND PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE DUCTING AND PIPING SUITABLE IN EVERY RESPECT FOR THE WORK PERFORMED. DUCTWORK AND PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM, AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR CHASE AND SOFFIT LOCATIONS TO COORDINATE ALL EXPOSED DUCTWORK AND PIPE ROUTING.
- 11. THE COMMISSIONING SPECIFICATION, INCLUDING ALL FUNCTIONAL TEST PROCEDURES, SHALL BE PROVIDED AND ENFORCED BY THE CONTRACTOR.
- 12. PROVIDE SEISMIC RESTRAINT IN ACCORDANCE WITH IBC AND ASCE STANDARD 7. SUBMIT CALCULATIONS BY LICENSED STRUCTURAL ENGINEER. PRODUCTS MAY CONFORM TO SMACNA SEISMIC RESTRAINT GUIDELINES.
- 13. PROVIDE A SINGLE SUBMITTAL OF ALL MECHANICAL EQUIPMENT AS SPECIFIED. AS A MINIMUM, SUBMIT PRODUCT DATA FOR ALL EQUIPMENT AND FIXTURES LISTED IN ACCOMPANYING SCHEDULES FOR APPROVAL.
- 14. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 15. ARRANGEMENT OF SYSTEMS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC, AND INDICATES THE MINIMUM REQUIREMENTS FOR PLUMBING AND MECHANICAL WORK. ADJUST BOX LOCATIONS, BASED ON FIELD MEASUREMENTS, TO AVOID INSTALLATION ABOVE DESKS. SITE CONDITIONS SHALL DETERMINE THE ACTUAL ARRANGEMENT OF THE WORK. TAKE FIELD MEASUREMENTS BEFORE PREPARING SHOP DRAWINGS, OBTAIN APPROVAL OF SHOP DRAWINGS BEFORE BEGINNING FABRICATION. BE RESPONSIBLE FOR ACCURACY OF DIMENSIONS AND LAYOUT. OVERHEAD PIPING AND DUCTWORK SHALL BE ARRANGED TO OBTAIN MAXIMUM HEAD ROOM. SHOP DRAWING SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD.
- 16. CLEAN AND PROTECT WORK FROM DAMAGE. RESTORE DAMAGED FINISHES. COVER ENDS OF PIPING AND DUCTWORK NOT ACTIVELY BEING WORKED ON. DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.
- 17. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.
- 18. ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.
- 19. ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES. ALL CONTRACTORS REMOVING OR RELOCATING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC SHALL PATCH ALL SURFACES DISTURBED BY THIS WORK TO MATCH ADJACENT SURFACES.
- 20. CONTRACTOR IS RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED, OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR, OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OF REMOVED EQUIPMENT AND/OR MATERIALS.
- 21. CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF THE DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK PERFORMED, INSIDE OR OUTSIDE, OF THE DESIGNATED SPACE SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS. IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON THE DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.
- 22. DO NOT CUT OR PENETRATE STRUCTURAL ELEMENTS WITHOUT PRIOR WRITTEN APPROVAL.
- 23. THE MECHANICAL CONTRACTOR SHALL MOUNT THE DUCT SMOKE DETECTOR. THE ELECTRICAL CONTRACTOR TO PROVIDE AND WIRE DUCT MOUNTED SMOKE DETECTOR. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE AND WIRE A REMOTE MONITORING KEY OPERATED TEST AND ALARM STATION FOR EACH DUCT SMOKE DETECTOR. THE REMOTE TEST ALARM STATION SHALL BE MOUNTED AS DIRECTED IN THE AREA OF THE SMOKE DETECTOR.
- 24. THE MECHANICAL CONTRACTOR TO PROVIDE ALL ROOF CURBS, EQUIPMENT RAILS, SUPPORTS, ROOF PORTALS AND ASSOCIATED EQUIPMENT TO ENSURE A COMPLETE INSTALLATION FOR NEW HVAC EQUIPMENT. MECHANICAL CONTRACTOR RESPONSIBLE TO PROVIDE EXACT LOCATIONS AND REVIEWED AND RELEASED EQUIPMENT SUBMITTALS OF ROOF CURBS, EQUIPMENT SUPPORTS, ROOF PORTALS, AND ASSOCIATED EQUIPMENT TO THE ARCHITECT. ALL ROOF PENETRATIONS, EQUIPMENT SUPPORTS, ROOF PORTALS AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY ROOFING SUB-CONTRACTOR. ROOFING CONTRACTOR SHALL BE BONDED AND ALL WORK SHALL BE DONE SO AS NOT TO VOID ROOF WARRANTY. ROOFING CONTRACTOR SHALL PROVIDE BASE FLASHING, AND PROVIDE TEMPORARY WEATHER-PROOF COVERS UNTIL MECHANICAL CONTRACTOR INSTALLS NEW HVAC UNITS. MECHANICAL CONTRACTOR TO PROVIDE COUNTER FLASHING.
- 25. FURNISH TO ELECTRICAL CONTRACTOR ALL MOTOR STARTERS AND CONTROL DEVICES FOR MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE STARTER AND CONTROL EQUIPMENT FOR ALL MOTORS.
- 26. ALL HVAC EQUIPMENT CONTAINING COOLING (EVAPORATOR) COILS INCLUDING DOWN FLOW ROOF TOP UNITS SHALL HAVE CONDENSATE MONITORING FOR OVERFLOW PROTECTION FOR PRIMARY OR SECONDARY DRAIN PANS AS APPLICABLE. SUCH DEVICES SHALL BE LABELED TO COMPLY WITH UL#508 AND SHALL SHUT DOWN COOLING SYSTEM AND SIGNAL BMS SYSTEM IF APPLICABLE.

- 27. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING LOCATIONS WHICH ARE THE MOST INCONSPICUOU MINIMUM AND THEIR FINAL LOCATIONS SHALL BE C WITH OTHER PLUMBING AND ELECTRICAL FEEDS. M DRAWINGS FOR CHASE AND SOFFIT LOCATIONS TO LOCATIONS SHALL BE REVIEWED WITH ARCHITECT.
- 28. ALL PENETRATIONS THRU FIRE RATED WALLS, FLOO FIRESTOP MATERIAL SUITABLE FOR CONSTRUCTION INTEGRITY OF STRUCTURE. FIRE RESISTANT SEAL INSTALL SEALANT, INCLUDING FOAMING, PACKING WHERE FIRE RATED PENETRATIONS OCCUR. COMP TESTERS AND INSPECTION AGENCY.
- 29. FURNISH AND INSTALL PIPE SLEEVES PASSING THR ASTM A53, TYPE E, GRADE A, SCHEDULE 40, GALVAN
- 30. MECHANICAL CONTRACTOR SHALL BE RESPONSIBL COSTS OF ALL REFRIGERANT MATERIAL DURING TH AND LOCAL CODES AND/OR REGULATIONS.
- 31. THERMOSTATS SHALL BE MOUNTED AT 48" AFF TO COVERS IN PUBLIC AREAS AND WIRE GUARDS IN G
- 32. ALL DUCTWORK SHALL BE CONNECTED TO MOTOR
- 33. ALL DUCTWORK SIZES SHOWN ON DRAWINGS ARE
- 34. INSTRUCT OWNER IN PROPER OPERATION OF SYST
- 35. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MA CONDITIONS. CONTRACTOR SHALL SUBMIT HVAC SI ALL DUCTS, PIPING, WIRING AND ASSOCIATED ACCE ANGLE OF OFFSET AS POSSIBLE. DUCTWORK & PIF SUPPORTS, AND COORDINATE ALL WORK WITH WOR
- 36. ALL MECHANICAL EQUIPMENT AND APPLIANCES SH AND LABELING AGENCY QUALIFICATIONS: A "NATIOI THE INTERNATIONAL MECHANICAL CODE.
- 37. THE MECHANICAL CONTRACTOR SHALL PROVIDE A PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT SHALL ALSO INCLUDE ALL CHANGES AND DEVIATION

## SHEETMETAL NOTES

- 1. PERFORM ALL SHEETMETAL WORK IN ACCORDANC
- 2. CONSTRUCT DUCTS WITH G-60 OR BETTER GALVAN
- CONSTRUCT RECTANGULAR DUCTWORK TO MEET SMACNA HVAC DUCT CONSTRUCTION STANDARDS. PANELS WIDER THAN 18-INCHES, AND PANELS LESS DUCTWORK IN ACCORDANCE WITH CHAPTER 3 OF
- DUCTMATE, METZ, OR W.D.C.I. DUCT CONNECTION THESE SYSTEMS WILL REFER TO THE MANUFACTUR REINFORCEMENT SIZE AND SPACING, AND JOINT R
- 5. PROVIDE COLLARS WHEREVER AN EXPOSED DUCT 18-GAGE ANGLE WITH MITERED CORNERS & SEAL W
- 6. SPIN-IN FITTINGS SHALL BE CONICAL TYPE WITH VOI EQUIVALENT.
- ELBOWS IN RECTANGULAR OR SQUARE DUCTWORK ELBOW IN THE PLANE OF THE TURN; OTHERWISE U
- ELBOWS IN ROUND DUCTWORK SHALL HAVE THE INS PLANE OF THE TURN. USE SEGMENTED, STANDING ELBOWS ARE ALLOWED IF RADIUS CONFORMS TO A
- SQUARE CORNER INSERTS (TURNING VANES) SHALL WITH 2-1/8-INCH SPACING.
- 10. VOLUME DAMPERS ARE NOT SHOWN GENERALLY, II EXHAUST, OR RETURN OPENING; ALSO IN EACH BRA ASSOCIATED WITH THE BRANCH. LOCATE DAMPERS FROM THE OUTLET AS POSSIBLE.
- 11. THOROUGHLY CLEAN ALL DEBRIS FROM THE INSIDE PARTICLES OF RUBBISH AND DUST.
- 12. MECHANICAL DRAWINGS SHOW APPROXIMATE LOC ARCHITECTURAL REFLECTED CEILING PLANS AND E DRAWINGS ARE COMPLETED VERIFY EXACT LOCAT THAT DIFFUSER AND GRILLE FRAMES MATCH CEILIN
- 13. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH A CLAMP, IDEAL "SNAP-LOCK" OR VENTLOCK "SURETIG WITH SMACNA HVAC DUCT CONSTRUCTION STANDA MAXIMUM LENGTH 5-FEET. LOW PRESSURE INSULA PRESSURE INSULATED FLEXIBLE DUCT SHALL BE T
- 14. GREASE EXHAUST TO BE 1/2 INCH W.G. PRESSURE C CONSTRUCTION WITH CONTINUOUS EXTERNAL WEL DOORS AS REQUIRED BY CODE.
- 15. FUME HOOD EXHAUST TO BE 1/2 INCH W.G. PRESSUR CONTINUOUS EXTERNAL WELD FOR ALL SEAMS AND

# ENERGY CODE MECHANICAL NOTES

- ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.
- TEMPERATURE SET POINT AT TIME OF OCCUPANCY.
- AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.
- 5. BOTH OUTDOOR AIR SUPPLY AND EXHAUST ARE EQUIPPED WITH NOT LESS THAN CLASS I MOTORIZED

DAMPERS.

- SYSTEMS AND SPACES LARGER THAN 150 SF2 FOR MULTIPLE ZONE SYSTEMS.
- 8. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF LOW-PRESSURE SUPPLY AND MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- EXCEPTION(S) AT STATIC PRESSURES LESS THAN 2 INCHES W.G. PRESSURE CLASSIFICATION.
- CONTRACTOR

SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN S. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE OORDINATED AND RUN WITHIN CHASES, WALLS, OR SOFFITS IECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL O COORDINATE ALL EXPOSED PIPING ROUTING, ALL SUCH
ENGINEER PRIOR TO INSTALLATION. ORS, AND CEILINGS SHALL BE SEALED WITH A UL APPROVED N MATERIAL TO MAINTAIN FIRE, SMOKE AND DRAFT ER SHALL BE TESTED IN ACCORDANCE WITH ASTM E84.
AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS LY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY ROUGH EXTERIOR WALLS. SLEEVES SHALL BE STEEL PIPE: NIZED PLAIN ENDS. 2" LONGER THAN WALL WIDTH
E FOR THE PROPER HANDLING, DISPOSAL AND ASSOCIATED IIS CONTRACT IN ACCORDANCE WITH ALL FEDERAL, STATE
MEET ADA REQUIREMENTS. PROVIDE TAMPER PROOF YMNASIUMS.
ZED EQUIPMENT WITH FLEXIBLE DUCT CONNECTORS.
CLEAR IN FERNAL DIMENSIONS.
AY HAVE TO BE ADAPTED TO COMPLY WITH BUILDING HOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF ESSORIES. MAKE OFFSETS WITH FITTINGS WITH AS SMALL ING SHALL BE ROUTED TO AVOID ALL STRUCTURAL RK OF OTHER TRADES.
ALL BEAR THE LABEL OF AN APPROVING AGENCY. LISTING NALLY RECOGNIZED TESTING LABORATORY" AS DEFINED IN
COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE DUCTWORK, PIPING AND ACCESS DOORS. THESE PLANS NS FROM BID DOCUMENTS.
E WITH CURRENT SMACNA STANDARDS.
IIZED STEEL (ASTM 527) LFQ, CHEM TREAT IN GENERAL.
ALL FUNCTIONAL CRITERIA DEFINED IN CHAPTER 11, OF THE PROVIDE DIAGONAL CREASING OR BEADING ON ALL THAN 18 GAGE. CONSTRUCT ROUND AND FLAT OVAL SMACNA HDCS.
SYSTEMS ARE ACCEPTABLE. DUCTS CONSTRUCTED USING RER'S GUIDELINES FOR SHEET GAGE, INTERMEDIATE EINFORCEMENTS.
PASSES THROUGH A WALL, SLAB, OR CEILING1-INCH WIDE, VITH FIBERGLASS AND MASTIC.
DLUME DAMPER, AND QUADRANT; FLEX MASTER ELGEN OR
( SHALL HAVE AN INSIDE RADIUS EQUAL TO DIMENSION OF SE SQUARE ELBOWS WITH TURNING VANES.
ISIDE RADIUS EQUAL TO DIMENSION OF ELBOW IN THE SEAM, PLEATED, OR STAMPED ELBOWS. ADJUSTABLE ABOVE.
L BE SMACNA FIG. 4.3 DOUBLE THICKNESS, RUNNER TYPE 2
NCLUDE A DAMPER IN THE DUCT TO EACH SUPPLY, ANCH DUCT WHERE THREE OR MORE OPENINGS ARE S AT A POINT WHERE THE DUCT IS ACCESSIBLE; AS FAR
E OF ALL DUCTWORK AND PLENUMS. BLOW FREE ALL SMALL
ATIONS FOR GRILLES AND DIFFUSERS. REFER TO ELEVATIONS FOR EXACT LOCATIONS. AFTER SHOP ION OF GRILLES AND DIFFUSERS IN THE FIELD. ENSURE NG TYPES AND FINISH PRIOR TO ORDERING.
A SLIP JOINT MADE USING FIRE RESISTANT MASTIC AND GHT NO. 670" AT EACH END. SUPPORT IN ACCORDANCE ARDS. DO NOT INSTALL WITH ABRUPT BENDS OR OFFSETS. ITED FLEXIBLE DUCT SHALL BE THERMAFLEX MK-E. HIGH HERAMFLEX MK-C.
CLASS, 18 GAGE STAINLESS STEEL WITH LIQUID TIGHT LD FOR ALL SEAMS AND JOINTS. PROVIDE ALL ACCESS
RE CLASS, 18 GAGE STAINLESS STEEL CONSTRUCTION WITH D JOINTS.

1. HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC RESISTANCE HEAT HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTARY HEAT OPERATION WHEN THE HEAT PUMP CAN MEET THE HEATING LOAD. WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING

EACH HVAC SYSTEM HAS CONTROLS THAT VARY THE START-UP TIME OF THE SYSTEM TO JUST MEET THE

4. EACH ZONE IS PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN

WHERE A HUMIDITY CONTROL DEVICE EXISTS IT IS SET TO MAINTAIN A DEADBAND OF AT LEAST 10% RELATIVE HUMIDITY WHERE NO ACTIVE HUMIDIFICATION OR DEHUMIDIFICATION TAKES PLACE.

7. DEMAND CONTROLLED VENTILATION (DCV) IS INCLUDED FOR SPACES LARGER THAN 500 SF2 FOR SIMPLE

RETURN DUCTS ARE SECURELY FASTENED AND SEALED WITH WELDS. GASKETS. MASTICS (ADHESIVES).

CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING

9. AN OPERATING AND MAINTENANCE MANUAL WILL BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL

# ABBREVIATIONS

ACU

AFF

AHU

AI

ARRGT

ATM

BDD

BFF

BI DO

BOB

BOD

BOS

CAP

CC

CD

CFM

CHR

CHS

CLG

CO

CNTFGL

CONC

COND

CONT

COMP

COP

CP

CRU

CU FT

CU

CV CVTR

CW

CWR

CWS

DCVA

DEG

DF

DIA

DN

DS

FAT

FFR

FFF

FG

EQUIF

FSP

EWT

EXH

EWC

EXIST

EXP

EXT

FDC

FLA

FLR

FΜ

FOB

FO

FOT

FPN

FPS

FSD

FT

FV

GA

GAL

GALV

GPM

HD

HEX

HOA

HTG

HWC

HWP

HWR

HWS

ΗZ

HOT WATER CIRCULATING

HEATING WATER SUPPLY

HOT WATER PUMP HEATING WATER RETURN

HERTZ

FLTR

EF

DMPR

CL

BTUH

WG

WH

AIR CONDITIONING UNIT ABOVE FINISHED FLOOR AIR HANDLING UNIT ALUMINUM, ACOUSTICAL LINING ARRANGEMENT ATMOSPHERE	
BLOWER COIL BACKDRAFT DAMPER BELOW FINISHED FLOOR BACKFLOW PREVENTER BRAKE HORSEPOWER BUILDING BOTTOM OF BEAM BOTTOM OF BEAM BOTTOM OF STEEL BRITISH THERMAL UNITS PER HOU	JR
CAPACITY COOLING COIL CEILING DIFFUSER CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON CEILING, COOLING CENTRIFUGAL CLEANOUT CONCRETE CONDENSATE CONTINUE, CONTROL COMPRESSOR COEFFICIENT OF PERFORMANCE CIRCULATING PUMP CONDENSATE RETURN UNIT CUBIC FEET CONSTANT VOLUME CONVERTER COLD WATER CONDENSER WATER RETURN CONDENSER WATER SUPPLY	
DECIBELS DRY BULB DOUBLE CHECK VALVE ASSEMBLY DEGREE DRINKING FOUNTAIN DE-IONIZED DIAMETER DAMPER DOWN DOWNSPOUT	(
EXISTING EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATING EXHAUST FAN EFFICIENCY EXHAUST GRILLE ELEVATION EQUIPMENT EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXHAUST ELECTRIC WATER COOLER EXISTING EXPANSION EXTERIOR, EXTERNAL	=
FAHRENHEIT, FIRE LINE FIRE DAMPER, FLOOR DRAIN FIRE DEPARTMENT CONNECTION FULL LOAD AMPS FLOOR FILTER FLOW METER FLAT ON BOTTOM FLAT OVAL FLAT ON TOP FEET PER MINUTE FEET PER SECOND FIRE SMOKE DAMPER FEET, FAN TERMINAL FACE VELOCITY	
GAGE GALLONS GALVANIZED GALLONS PER MINUTE	
HUMIDIFIER, HEIGHT HOSE BIBB HEATING COIL HEAD HEAT EXCHANGE HAND-OFF-AUTOMATIC HORSEPOWER, HEAT PUMP HIGH PRESSURE STEAM HEATING HOT WATER	

IDE	INDIRECT DRAIN
IE	INVERT ELEVATION
IH	INTAKE HOOD
IN	INCH
INIT	INITIAL
INT	INTERIOR
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATT
KWH	KILOWATT HOURS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LB	POUND, LINEAR BAR
LBS	POUNDS
LD	LINEAR DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MD	MANUAL DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MTR	MOTOR
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAIN LEADER
P	PUMP, PLUMBING
PD	PRESSURE DROP
PH	PHASE
POC	POINT OF CONNECTION
POS	POSITIVE
PR	PUMPED RETURN
P/T	PRESSURE/TEMPERATURE
PVC	POLYVINYL CHLORIDE
ΟΤΥ	QUANTITY
QII	
RA RD REF REQD RF RG RH RL RPBP RPM	RETURN AIR ROOF DRAIN REFERENCE REQUIRED RETURN FAN RETURN GRILLE RELIEF HOOD, RELATIVE HUMIDITY RAIN LEADER REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE
RA RD REF REQD RF RG RH RL RPBP RPM SA SD SENS SEER SF SG SL SP SPR SS STP	RETURN AIR ROOF DRAIN REFERENCE REQUIRED RETURN FAN RETURN GRILLE RELIEF HOOD, RELATIVE HUMIDITY RAIN LEADER REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SOIL SUPPLY AIR STORM DRAIN, SMOKE DAMPER SENSIBLE SEASONAL ENERGY EFFICIENCY RATING SUPPLY FAN, SQUARE FEET SUPPLY GRILLE SOUNDLINING STATIC PRESSURE SPRINKLER STAINLESS STEEL, SANITARY SEWER STAINLESS STEEL, SANITARY SEWER
RA RD REF REQD RF RG RH RL RPBP RPM S SA SD SENS SEER SF SG SL SP SPR SS STP T TEMP TG TOD TOT TP TSP TU TYP	RETURN AIR ROOF DRAIN REFERENCE REQUIRED RETURN FAN RETURN GRILLE RELIEF HOOD, RELATIVE HUMIDITY RAIN LEADER REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SOIL SUPPLY AIR STORM DRAIN, SMOKE DAMPER SENSIBLE SEASONAL ENERGY EFFICIENCY RATING SUPPLY FAN, SQUARE FEET SUPPLY GRILLE SOUNDLINING STATIC PRESSURE SPRINKLER STAINLESS STEEL, SANITARY SEWER STANDPIPE THERMOSTAT TEMPERATURE TRANSFER GRILLE TOP OF DUCT TOTAL TRAP PRIMER, TOTAL PRESSURE TOTAL STATIC PRESSURE TERMINAL UNIT TYPICAL
RA RD REF REQD RF RG RH RL RPBP RPM S SA SD SENS SEER SF SG SL SP SPR SS STP T TEMP TG TOD TOT TP TSP TU TYP UH UON	RETURN AIR ROOF DRAIN REFERENCE REQUIRED RETURN FAN RETURN GRILLE RELIEF HOOD, RELATIVE HUMIDITY RAIN LEADER REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SOIL SUPPLY AIR STORM DRAIN, SMOKE DAMPER SENSIBLE SEASONAL ENERGY EFFICIENCY RATING SUPPLY FAN, SQUARE FEET SUPPLY GRILLE SOUNDLINING STATIC PRESSURE SPRINKLER STAINLESS STEEL, SANITARY SEWER STANDPIPE THERMOSTAT TEMPERATURE TRANSFER GRILLE TOP OF DUCT TOTAL TRAP PRIMER, TOTAL PRESSURE TOTAL STATIC PRESSURE TERMINAL UNIT TYPICAL UNIT HEATER UNLESS OTHERWISE NOTED
RA RD REF REQD RF RG RH RL RPBP RPM S SA SD SENS SEER SG SL SP SPR SS STP T TEMP TG TOD TOT TP TSP TU TYP UH UON V VA VAV VEL VFD VTR	RETURN AIR ROOF DRAIN REFERENCE REQUIRED RETURN FAN RETURN GRILLE RELIEF HOOD, RELATIVE HUMIDITY RAIN LEADER REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SOIL SUPPLY AIR STORM DRAIN, SMOKE DAMPER SENSIBLE SEASONAL ENERGY EFFICIENCY RATING SUPPLY FAN, SQUARE FEET SUPPLY GRILLE SOUNDLINING STATIC PRESSURE SPRINKLER STAINLESS STEEL, SANITARY SEWER STAINLESS STEEL, SANITARY SEWER STAINLESS STEEL, SANITARY SEWER STAINDPIPE THERMOSTAT TEMPERATURE TRANSFER GRILLE TOP OF DUCT TOTAL TRAP PRIMER, TOTAL PRESSURE TOTAL STATIC PRESSURE TERMINAL UNIT TYPICAL UNIT HEATER UNLESS OTHERWISE NOTED VENT, VOLT VARIABLE AIR VOLUME VEIOCITY VARIABLE FREQUENCY DRIVE VENT THROUGH ROOF

WATER GAGE WATER HEATER, WALL HYDRANT WTR WATER



N	MECHANICAL SHEET INDEX							
M0.00	GENERAL NOTES, ABBREVIATIONS & SHEET INDEX							
M0.01	MECHANICAL LEGEND							
M0.02	MECHANICAL SCHEDULES							
M0.03	MECHANICAL SCHEDULES							
M1.01	MECHANICAL HVAC - FIRST FLOOR PLAN							
M1.02	MECHANICAL HVAC - ROOF PLAN							
M2.00	MECHANICAL DETAILS							

SY	SYME	
SYMBOL	DESCRIPTION	SYMBOL
	DRAWING CONSTRUCTION ("FLAG") NOTE	
X-XX	EQUIPMENT IDENTIFIER	
<b>—</b> —	MATCHLINE	
$\bigcirc$	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)	
$\Delta$	REVISION REFERENCE	
	EXISTING TO BE REMOVED (HATCH)	
	HEAVY LINEWEIGHT INDICATES NEW WORK	8
	LIGHT LINEWEIGHT INDICATES EXISTING INFORMATION	
<b>\</b>	POINT OF CONNECTION	
X	DETAIL REFERENCE — DETAIL IDENTIFICATION NUMBER — SHEET WHERE DETAIL IS DRAWN	
	ELEVATION REFERENCE — ELEVATION IDENTIFICATION — NUMBER SHEET WHERE ELEVATION IS DRAWN	
	SECTION REFERENCE SECTION — IDENTIFICATION NUMBER — SHEET WHERE SECTION IS DRAWN	
	NORTH REFERENCE	

SY	MBOLS LEGEND - PIPING	SYMBOLS LEGEND - PIPING					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION				
RL ORL ID	SOIL OR WASTE VENT RAIN LEADER OVERFLOW RAIN LEADER INDIRECT DRAIN COLD WATER HOT WATER HOT WATER	S F/T	STEAM TRAP ASSEMBLY F/T = FLOAT AND THERMOSTATIC F = FLOAT T = THERMOSTATIC B = BUCKET IB = INVERTED BUCKET I = IMPULSE O = ORIFICE				
	140° POTABLE HOT WATER 120° POTABLE HOT WATER FIRE SPRINKLER STANDPIPE	→× <sub>A</sub>	PIPE ANCHOR PIPE ALIGNMENT GUIDE CONTROL VALVE STATION				
	HIGH PRESSURE STEAM HEATING WATER SUPPLY HEATING WATER RETURN		PIPE SUPPORT				
CHS — CHS — CHR —	CHILLED WATER SUPPLY CHILLED WATER RETURN REDUCER, CONCENTRIC WYE STRAINER WITH CAPPED HOSE AND BLOWDOWN VALVE	P/T >	PRESSURE/TEMPERATURE TEST PORT				
××, 4⊂	ANGLE VALVE						
—————————————————————————————————————	AUTOMATIC CONTROL VALVE - TWO WAY (PNEUMATIC OPERATOR SHOWN)		GATE VALVE				
	AUTOMATIC CONTROL VALVE - THREE WAY (ELECTRIC OPERATOR SHOWN)		BALL VALVE				
	BUTTERFLY VALVE FLEXIBLE CONNECTION IN PIPING		BALANCING OR PLUG VALVE NEEDLE VALVE				
	MANUAL AIR VENT (MAV), AUTOMATIC AIR VENT (AAV)	——沃—— ——米——	PRESSURE REDUCING VALVE BALANCING/MEASURING VALVE				
Y	PRESSURE GAUGE	×چ ا	RELIEF VALVE CHECK VALVE				
 	THERMOMETER	G	PIPE TURNING DOWN / AWAY				
<u>\</u>	THERMOMETER WELL	 ر)۔	PIPE TURNING UP / TOWARDS PIPE DOWN TEE				
	SIGHT GLASS HOSE BIB		PIPE DOWN TEE / AWAY PIPE UP TEE / TOWARDS				

		_			_			
SYMBOLS LEGEND - AIR HANDLING			SYMBOLS LEGEND - AIR HANDLING			SYMBOLS LE		
YMBOL	DESCRIPTION		SYMBOL	DESCRIPTION		SYMBOL		
	SUPPLY AIR DUCT - UP SUPPLY AIR DUCT - DOWN			ROUND, 90° ELBOW, R/W OR R/D = 1.5			EQUIPMEN	
	RETURN AIR DUCT - UP RETURN AIR DUCT - DOWN OUTSIDE AIR DUCT - UP			RECTANGULAR, 90° ELBOW, R/W OR R/D = 1.5		$\begin{array}{c} T \\ \hline \\$	THERMOS DIFFU — CONNECT	
	OUTSIDE AIR DUCT - DOWN EXHAUST AIR DUCT - UP			RECTANGULAR OR ROUND, 90° ELBOW, R/W OR R/D = 1.5			— AIR FLOW — DIFFUSER CEILING S	
	EXHAUST AIR DUCT - DOWN FLAT-OVAL DUCT - TURNING TOWARD			SQUARE CORNER ELBOW WITH TURNING VANE		×××××××××××××××××××××××××××××××××××××	CEILING R	
	FLAT-OVAL DUCT - TURNING AWAY INCLINE RISE (R) OR DROP (D) IN DIRECTION OF ARROW			45° BRANCH CONNECTION			SIDEWALI	
	FLEXIBLE CONNECTION ACCESS DOOR (AD) OR ACCESS PANEL (AP)			RECTANGULAR BRANCH TO RECTANGULAR DUCT CONNECTION WITH 45° TAPER			AIRFLOW,	
	VOLUME DAMPER			ROUND OR RECTANGULAR BRANCH TO ROUND OR RECTANGULAR DUCT CONNECTION		<del>- U</del> ►	DOOR UNI	
FD FD SD.	FIRE DAMPER			ROUND BRANCH TO RECTANGULAR DUCT CONNECTION				
	SMOKE DAMPER			ROUND BRANCH TO ROUND DUCT CONNECTION				
	MOTOR OPERATED DAMPER			TRANSITION OR REDUCER - NOTED FOT (FLAT ON TOP) OR FOB (FLATON BOTTOM) IF REQUIRED				
	BACKDRAFT DAMPER			RECTANGULAR TO ROUND TRANSITION				

SYMBOLS LEGEND - PIPING & AIRFLOW DIAGRAMS					
SYMBOL	DESCRIPTION				
	PIPING OR DUCTED AIRFLOW				
	NON-DUCTED AIRFLOW				
	ELECTRICAL CONNECTION				
$\rightarrow$	FLOW CONTINUATION ARROW				
────◇	COMPLEX INTERLOCK (ELEC., PNEUMATIC, ETC.)				
⊲	CONNECTION TO CENTRAL MONITORING AND CONTROL SYSTEM (CMCS)				
	PUMP				
	CENTRIFUGAL FAN				
M	ELECTRIC MOTOR/STARTER ASSEMBLY				
M	ELECTRIC MOTOR OPERATOR (VALVES AND DAMPERS)				
O	FLOOR DRAIN				
Ø	FUNNEL DRAIN				
<b>Ø</b>	FLOOR SINK (SQUARE AND ROUND)				

FLOW DIRECTION

SYMBOLS LEGE		
SYMBOL		
F	FIRE	
<b>♦</b>	EQUIPMENT	
+¢FDC	FIRE DEPAR	
V	PRESSURE	
	WET SPRIN	
0	DRY SPRIN	

SYMBC	OLS LEGE
SYMBOL	
O2         MA         MV         WAG         WAG         MA         WAG         MA         WAG         MA         WAG         MA         WAG         MA         WAG         MA         MA         MA         MAB         MAB         MA	OXYGEN MEDICAL CO MEDICAL VA WASTE ANE MEDICAL AII WASTE ANE NITROUS O) NITROGEN CARBON DIO ETHYLENE ( MEDICAL GA ZONE VALVE MEDICAL GA MEDICAL AII HOSE REEL

SYMBOLS LEC	
SYMBOL	
+ 	NON POTAB NON POTAB NON POTAB LABORATOF LABORATOF

# DESCRIPTION EMBLY

- D THERMOSTATIC TATIC
- BUCKET

FLEXIBLE DUCT

- SUIDE
- TATION
- RATURE TEST PORT
- JG VALVE
- ING VALVE IRING VALVE
- WN / AWAY TOWARDS
- WAY /ARDS

GEND - AIR HAND	LING
DESCRIPTION	

NT WITH EQUIPMENT IDENTIFICATION

STAT

USER IDENTIFIER TION SIZE / (CFM)

R TYPE MARK SUPPLY DIFFUSER

RETURN DIFFUSER

L GRILL DIFFUSER

, SUPPLY

, RETURN

NDERCUT

# END - FIRE PROTECTION DESCRIPTION

T WITH EQUIPMENT IDENTIFICATION

ARTMENT CONNECTION

E REGULATING VALVE WITH SUPERVISORY SWITCH

INKLER HEAD NKLER HEAD

# GEND - MEDICAL GASES

DESCRIPTION COMPRESSED AIR /ACUUM NESTHETIC GAS AIR OUTLET NESTHETIC GAS DEVICE OXIDE (NITROUS)

DIOXIDE E OXIDE GAS VALVE (SERVICE VALVE) VE BOX GAS ALARM BOX

AIR PRESSURE SENSOR

L (RETRACTABLE)

# GEND - LABORATORY

DESCRIPTION

ABLE COLD WATER ABLE HOT WATER ABLE HOT WATER RECIRCULATE ORY AIR ORY VACUUM



SAZAN# 646-22028


ROOM NUMBER	ROOM NAME	TOTAL AREA (SQFT)	DEFAULT OCCUPANT DENSIT
		Az	
101	VESTIBULE	70	10
102	LAUNDRY	90	10
103	RESTROOM	48	-
104	HALLWAY	129	-
105	RECEPTION	97	30
106	RESTROOM	47	-
107	OFFICE	70	5
108	SLEEPING	52	20
110	COMMUNITY ROOM	735	120
111	CLOSET	64	-
112	KITCHEN	290	20
120	HALLWAY	83	-
121	RESTROOM	50	-
122	SHOWER	70	-
123	CLOSET	17	-
125	MEN'S DORM	577	20
130	HALLWAY	82	-
131	ASSISTED DORM	191	20
132	RESTROOM	48	-
133	JANITOR	50	-
134	RESTROOM	50	-
135	SHOWER	70	-
136	WOMEN'S DORM	454	20
MADRAS HON	IELESS SHELTER	3,434	

### **REQUIRED OUTSIDE AIR FLOW RATE**

		MINIMUM VEN	TILATION RA	TES FROM TABLE	E 403.3, 2	2019 OREGO	ON MECHANICAL SPECIALTY	CODE	
TY #/1,000 SQFT	ZONE NO. OF PEOPLE		Rp*Pz (CFM)	CFM PER SQFT.	   Ra*Rz   (CFM)	Vbzp+Vbza (CFM)	ZONE AIR DISTRIB EFFECT	Voz=Vbz/Ez (CFM)	SCHEDULED OUTDOOR AIRFLOW (CFM)
	Pz	Rp	Vbzp	Ra	Vbza	Vbz	Ez	Voz	
	1	5	5	0.06	4.2	9	0.8	12	15
	1	5	5	0.12	10.8	16	0.8	20	20
	-	-	-	-	-	-	0.8	-	0
	-	-	-	0.06	7.7	8	0.8	10	10
	3	5	15	0.06	5.8	21	0.8	26	30
	-	-	-	-	-	-	0.8	-	0
	1	5	5	0.06	4.2	9	0.8	12	15
	1	5	5	0.06	3.1	8	0.8	10	15
	42	5	210	0.06	44.1	254	0.8	318	320
	0	-	-	_	-	-	0.8	-	0
	0	8	0	0.12	34.8	35	0.8	44	45
	0	-	-	0.06	5.0	5	0.8	6	10
	-	-	-	-	-	-	0.8	-	0
	-	-	-	-	-	-	0.8	-	0
	-	-	-	0.06	1.0	1	1.8	1	0
	14	5	70	0.06	34.6	105	0.8	131	183
	0	-	-	0.06	4.9	5	0.8	6	10
	3	5	15	0.06	11.5	26	0.8	33	35
	-	-	-	-	-	-	0.8	-	0
	-	-	_	-	-	_	0.8	-	0

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				F	AN CO	DIL SCI	HEDULE				
							COOLING COIL				
EQUIP. NO	LOCATION	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES TYPE TOTAL LOAD (BTUH) MAXIMUM PRESSURE DRO		OA DESIGN TEMP (DEG F)	MAXIMUM SOUND PRESSURE (dBA)	OPERATING WEIGHT (LBS)	REMARKS		
FCU-01	ATTIC	NORTH SIDE	DAIKIN	CAPF3131C6	HORIZONTAL	30		93.6		50	1
FCU-02	ATTIC	SOUTH SIDE	DAIKIN	CAPF4961D6	HORIZONTAL	60		93.6		76	1
REMARKS:		1			I	1				1	1
1. INSTALL	PER MANUF	ACTURER REC	COMMENDATIONS.								

0

0

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857

				н	EAT PUI	MP	SCHEI	DULE					
				COOLING CAPACITY			HEATING CAPACITY						
EQUIP. NO	D LOCATION SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES	TOTAL LOAD (MBH)	OA DESIGN TEMP (DEG F)	EER	TOTAL LOAD (MBH)	OA DESIGN TEMP (DEG F)	COP @ 47 DEGREE F MOC	P V/PH/HZ	MAXIMUM SOUND PRESSURE (dBA)	OPERATING WEIGHT (LBS)	REMARKS
HP-01	EXTERIOR OF BUILDING NORTH SIDE	DAIKIN	DZ14SN0601	27.6	93.6	11.5	28.4	6.1	3.7 30	208/230/1/60	74	193	
HP-02	EXTERIOR OF BUILDING SOUTH SIDE	DAIKIN	DZ14SN0601	56.5	93.6	11.5	59	6.1	3.9 60	208/230/1/60	76	307	
								•					

REMARKS:

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1. PROVIDE FACTORY MOTOR STARTERS. SEE ELECTRICAL DRAWINGS FOR SEPARATE DISCONNECT SWITCH

2. PROVIDE 120V/1Ø CONVENIENCE OUTLET ON A SEPARATE CIRCUIT UNLESS OUTLET IS AVAILABLE WITHIN 25 FEET OF EQUIPMENT PER 2008 NEC 210.63

3. COMPRESSOR FOR OUTDOOR UNIT TO BE OPERATING WITH VARIABLE SPEED DRIVE (VSD)

4. FACTORY PROVIDED INTEGRAL CRANKCASE HEATER

5. SYSTEM MUST BE INSTALLED BY A CONTRACTOR CERTIFIED WITH THE HEAT PUMP MANUFACTURER. SEE DETAILS FOR ADDITONAL INFORMATION ON UNIT MOUNTING.

QUIRED EXHAUST AIRFLOW RATE (CFM     SCHEDULED EXHAUST AIRFLOW (CFM       0     0       90     90       90     90       50     50       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       100     100       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     50       50     50       50     50       100		
QUIRED EXHAUST AIRFLOW RATE (CFM)     SCHEDULED EXHAUST AIRFLOW (CFM       0     0       90     90       50     50       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       100     100       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     50       50     50       50		
0     0       90     90       50     50       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       64     64       203     203       0     0       100     100       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       50     50       50     50       50     50       100     100       0     0       0     0       100     100	QUIRED EXHAUST AIRFLOW RATE (CFM)	SCHEDULED EXHAUST AIRFLOW (CFM)
0   0     90   90     50   50     0   0     0   0     50   50     0   0     0   0     0   0     0   0     0   0     64   64     203   203     0   0     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     50   50     0   0     0   0     0   0     0   0     0   0		
90     90       50     50       0     0       50     50       50     50       0     0       0     0       0     0       0     0       0     0       0     0       64     64       203     203       0     0       50     50       100     100       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     50       50     50       50     50       50     50       50     50       100     100       0     0       0     0       0     0       0     0	0	0
50   50     0   0     50   50     0   0     0   0     0   0     0   0     0   0     0   0     64   64     203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     50   50     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0 <td>90</td> <td>90</td>	90	90
0   0     0   0     50   50     0   0     0   0     0   0     64   64     203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     50   50     100   100     0   0     0   0     50   50     50   50     50   50     100   100     0   0     0   0     0   0	50	50
0   0     50   50     0   0     0   0     0   0     64   64     203   203     0   0     50   50     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     100   100     0   0     0   0     857   857	0	0
50   50     0   0     0   0     0   0     64   64     203   203     0   0     50   50     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     50   50     100   100     0   0     0   0     50   50     50   50     50   50     50   50     100   100     0   0     0   0     857   857	0	0
0   0     0   0     0   0     64   64     203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     100   100     0   0     50   50     50   50     50   50     50   50     100   100     0   0     0   0     0   0     53   55     50   50     50   50     50   50     50   50     50	50	50
0   0     0   0     64   64     203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     100   100     0   0     0   0     50   50     50   50     100   100     0   0     0   0     0   0     857   857	0	0
0   0     64   64     203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   50     50   50     50   50     50   50     50   50     100   100     0   0     0   0     857   857	0	0
64   64     203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     50   50     50   50     50   50     50   50     100   100     0   0     857   857	0	0
203   203     0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     0   0     50   50     50   50     50   50     50   50     50   50     100   100     0   0     857   857	64	64
0   0     50   50     100   100     0   0     0   0     0   0     0   0     0   0     50   50     50   50     50   50     50   50     50   50     50   50     50   50     50   50     50   50     50   50     50   50     50   50     6   0     857   857	203	203
50   50     100   100     0   0     0   0     0   0     0   0     0   0     50   50     50   50     100   100     0   0     857   857	0	0
100   100     0   0     0   0     0   0     0   0     50   50     50   50     50   50     100   100     0   0     857   857	50	50
0   0     0   0     0   0     0   0     50   50     50   50     50   50     100   100     0   0     857   857	100	100
0   0     0   0     0   0     50   50     50   50     50   50     50   50     100   100     0   0     857   857	0	0
0   0     0   0     50   50     50   50     50   50     50   50     100   100     0   0     857   857	0	0
0   0     50   50     50   50     50   50     50   50     100   100     0   0     857   857	0	0
50   50     50   50     50   50     50   50     100   100     0   0     857   857	0	0
50   50     50   50     100   100     0   0     857   857	50	50
50 50   100 100   0 0   857 857	50	50
100 100   0 0   857 857	50	50
0 0 857 857	100	100
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	857	857

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SAZAN# 646-22028



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	EXHAUST FAN SCHEDULE															
EQUIP NO.	LOCATION	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES	TYPE	VOLUME	VOLUME STATIC PRESSURE		DRIVE TYPE FAN RPM		MOTOR		Dba	VFD YES/NO	OPERATING WEIGHT (LBS)	REMARKS
						CFM	INCHES W.G.			HP	FLA	V/PH/HZ				
EF-01	ATTIC	RESTROOM/LAUNDRY	GREENHECK	SQ-60-VG	INLINE	160	0.25	DIRECT	1172	1/4	5.8	115/1/60	56	NO	80	1,2
REMARKS:		,				1		1					•	•	-	1

1. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS

2. (FACTORY PROVIDED STARTER,) ELECTRICAL TO PROVIDE DISCONNECT SWITCH.

		1											
			BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES	SUPPLY AIR		EXHAUST AIR			El	ECTRICAL		
EQUIP. NO	LOCATION	SERVICE			AIRFLOW (CFM)	ESP (IN WG)	AIRFLOW (CFM)	ESP (IN WG)	MCA	MOCP	SINGLE POINT V/PH/HZ	WEIGHT LBS R	REMARKS
ERV-01	ATTIC	VENTILATION	RENEWAIRE	HE1.5XINH	857	0.5	857	0.5	7.7	15	208-230/1/60	504	1,2
REMARKS:													

1. PROVIDE MERV 8 PRE-FILTER PRIOR TO SUPPLY AND EXHAUST FANS.

2. PROVIDE ALL DAMPERS AS REQUIRED BY THE ENERGY CODE. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL COMPONENTS REQUIRED FOR CONTROL AS PER THE...

		E	LECTRIC HEAT	ER SCHEDU	ILE				
					7.05				
		DASIS OF DESIGN SERIES		KW	AMPS	V/PH/HZ			
EH-1	103 RESTROOM	RESTROOM	KING	LPW2015-TP	WALL	.5-1.5	2.4-7.2	208/1/60	1,2,3,5
EH-2	101 VESTIBULE	VESTIBULE	KING	PAW2022	WALL	.5-2.25	2.4-10.8	208/1/60	1,2,3,4
REMARKS:	-	1			1	1		1	
1. PROVIDE	WALL MOUNTED	24 VOLT THER	MOSTAT.						

ARCHITECT.

3. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

4. REMOTE THERMOSTAT.

5. INTEGRAL TAMPER PROOFTHERMOSTAT.

			DIFFU	SER-GRILLE	ESCHEDULE		
EQUIP. NO	LOCATION	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES	DESCRIPTION	MAXIMUM SOUND PRESSURE (dBA)	REMARKS
CD-1	CEILING	SUPPLY DIFFUSER	TITUS	MCD	4-WAY ADJUSTABLE, MODULAR CORE DIFFUSER	19	1,2,3
RG-1	CEILING	RETURN GRILLE	TITUS	50F	EGGCRATE RETURN GRILLE	24	1,3,4
EG-1	CEILING	EXHAUST GRILLE	TITUS	350FL	SINGLE DEFLECTION GRILLE	-	1,5
REMARKS:	·						

1. SEE MECHANICAL FLOOR PLANS FOR DUCT SIZE AND CFM

2. STEEL, WHITE, ROUND NECK, SEE MECHANICAL FLOOR PLANS FOR NECK SIZE

3. BORDER TO MATCH CEILING TYPE

4. STEEL, WHITE, CORE ONLY IN ACT, 1/2"X1/2"X1/2" GRID

5. ALUMINUM, WHITE, FOR GWB CEILING, 3/4" BLADE SPACING, 35 DEG. FIXED DEFLECTION

## TOR SCHEDULE

2. PROVIDE SURFACE MOUNTING FRAME, 1" OR 2" SEMI RECESS MOUTING FRAME, COORDINATE REQUIREMENT WITH ARCHITECT, COLOR AS PER



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SAZAN# 646-22028





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# 3 VERTICAL CONCENTRIC VENT DETAIL



# 2 MEC 01.03 - RETURN AIR GRILLE DETAIL NTS







### GENERAL NOTES

- 1. SYMBOLS LEGENDS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. THE SYMBOLS REPRESENT THE TYPE OF DEVICES THAT MAY BE REQUIRED IN THE WORK; QUANTITIES AND LOCATIONS ARE AS SHOWN ON THE PLAN SHEETS.
- 2. PROVIDE 3/4" CONDUIT & #12 CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR OF SINGLE PHASE LINE-NEUTRAL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL CONDUCTORS.
- 3. EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- 4. THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE BASE BID:
- A. POWER WIRING AND CABLE INSTALLATIONS SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS AND IN WALLS. EXPOSED WIRING SHALL BE INSTALLED IN APPROVED SURFACE METAL RACEWAY WHERE INDICATED.
- B. LOCATIONS OF ALL WALL MOUNTED DEVICES SUCH AS SWITCHES, RECEPTACLES, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY.DETERMINE EXACT DEVICE LOCATIONS IN FIELD; COORDINATE INSTALLATIONS WITH FIXED CASEWORK, DOORS AND RELITES.
- C. PROVIDE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS AS REQUIRED. PROVIDE SUITABLE FIRE RATED MATERIALS AND SEAL ALL CEILING, FLOOR, AND WALL PENETRATIONS TO MATCH FIRE RATING OF SURFACES PENETRATED.

### LIGHTING AND RECEPTACLE NOTES

1. LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS ZONED ON THE LIGHTING PLANS. SWITCHING AND DIMMING ZONES ARE INDICATED ADJACENT TO EACH FIXTURE.

- 2. MANUAL CONTROLS SHALL ALLOW OCCUPANTS TO UNIFORMLY REDUCE ILLUMINATION LEVELS AT LEAST 50%. EXCEPTION: CORRIDORS, RESTROOMS, LOBBIES, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY (IDF) ROOMS CONTROLLED BY OCCUPANCY SENSORS.
- 3. LUMINAIRES PROVIDING MEANS OF EGRESS ILLUMINATION AND HAVING BOTH NORMAL AND EMERGENCY POWER SOURCES SHALL BE CONTROLLED BY A COMBINATION OF U.L. 924 LISTED EMERGENCY RELAYS AND OCCUPANCY SENSORS THAT ENABLES THE LIGHTING TO BE SHUT OFF WHEN THE AREAS SERVED ARE UNOCCUPIED AND AUTOMATICALLY ILLUMINATES IN THE EVENT OF NORMAL POWER SOURCE FAILURE.
- 4. THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A 20 AMPERE CIRCUIT LOADED TO NOT MORE THAN 80 PERCENT.
- 5. PROVIDE FUNCTIONAL TESTING OF AUTOMATIC LIGHTING CONTROLS. SUBMIT WRITTEN PROCEDURES FOR FUNCTIONAL TESTING OF ALL AUTOMATIC CONTROLS WITH DESCRIPTION OF THE EXPECTED SYSTEM RESPONSE.

#### FIRE ALARM SYSTEM NOTES (DELEGATED DESIGN)

- A. PREPARE A COMPLETE SET OF FIRE ALARM SYSTEM DRAWINGS INCLUDING DESIGN CALCULATIONS, WIRING DETAILS, FIRE ALARM APPLIANCES, MONITORING AND CONTROL MODULES, INTERFACE RELAYS, COMMUNICATIONS DEVICES, SYSTEM PROGRAMMING, ETC., AS REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM. REFER TO SECTION 28 31 00 FIRE DETECTION AND ALARM FOR SPECIFIC REQUIREMENTS.
- B. FIRE ALARM DEVICES SHOWN ON THE DRAWINGS ARE REPRESENTATIVE OF AREAS REQUIRING COVERAGE ONLY. THE ENGINEER MAKES NO REPRESENTATION THAT THE QUANTITIES OR LOCATIONS OF DEVICES SHOWN ARE SUFFICIENT TO SATISFY THE AUTHORITY HAVING JURISDICTION (AHJ).
- C. THE FIRE ALARM SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS: 2019 OREGON STRUCTURAL SPECIALTY CODE CHAPTER 9 2021 OREGON ELECTRICAL SPECIALTY CODE
- 2020 NFPA 70 (NEC) 2016 NFPA 72 2015 NFPA 101

2013 ASME A17.1 2014 OREGON FIRE CODE (OFC) CHAPTER 11

- D. COORDINATE FIRE ALARM DESIGN REQUIREMENTS WITH THE AHJ AND OBTAIN AHJ APPROVAL OF THE FINAL DESIGN.
- E. SUBMIT A COMPLETE SET OF AHJ APPROVED FIRE ALARM DRAWINGS FOR OWNER/ARCHITECT REVIEW PRIOR TO START OF CONSTRUCTION. SEE SPECIFICATIONS 28 31 00 FOR ADDITIONAL SUBMITTAL REQUIREMENTS.
- F. INSTALLATION: PROVIDE ALL LABOR, MATERIAL, SUPPORT HARDWARE, ETC., AS REQUIRED AND INSTALL FIRE ALARM SYSTEM AS SPECIFIED.
- G. SCHEDULED TESTING: INCLUDE STEP-BY-STEP PROCEDURES FOR PERFORMANCE TESTING EVERY FIRE ALARM DEVICE AND SYSTEM OUTPUT TO DEMONSTRATE FUNCTIONALITY IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
- H. RECORD DRAWINGS: MARK-UP CONSTRUCTION DRAWINGS DURING INSTALLATIONS TO SHOW ACCURATE LOCATIONS OF DEVICES, ACTUAL ROUTING OF CONDUIT, AND LOCATIONS OF END OF LINE DEVICES. INCORPORATE AS-BUILT MARK-UPS INTO AUTO-CAD RECORD DRAWINGS UPON COMPLETION OF THE WORK. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. SUBMIT RECORD DRAWINGS AS FOLLOWS: 1 SET IN ELECTRONIC (AUTO-CAD) FORMAT, 1 SET IN ELECTRONIC (PDF) FORMAT, AND 4 SETS OF PRINTED DRAWINGS; 2 FULL-SIZE AND 2 HALF-SIZE

#### STRUCTURED CABLE SYSTEM PATHWAY NOTES 1. SYSTEM CABLING PATHWAYS SHALL TIA-569.

- 2. CABLE SUPPORTS SHALL NOT BE PLA
- 3. CABLES AND PATHWAYS SHALL BE CL
- 4. PROVIDE (1) 2" CONDUIT SLEEVE WITH
- ETC, AS REQUIRED TO FACILITATE CA
- 5. ALL PENETRATIONS MUST BE FIRE-ST OF THE AHJ.
- 6. ALL TELECOMMUNICATION ROOMS AN
- 7. ALL TELECOMMUNICATION BONDING
- 8. NOT ALL PARTS SHOWN. ENSURE A C INSTALLATION MATERIALS, CONNECT
- 9. PROVIDE NETWORK/TELEPHON COND COMMUNICATIONS ROOM, UNLESS OT
- A. ENERGY SYSTEM MANAGEMENT B. FIRE ALARM CONTROL SYSTEM PANELS/ENCLOSURES C. ACCESS CONTROL SYSTEM PANELS/ENCLOSURES

<u>STSTEIN FAITWAT NUTES</u>
BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF
ACED MORE THAT 5' APART.
LEARLY LABELED IN ACCORDANCE WITH TIA-606-C.
H INSULATED BUSHINGS FOR PENETRATION INTO OFFICES, EXAM ROOM ABLE ROUTING WHETHER SHOWN ON DRAWINGS OR NOT.
TOPPED IN ACCORDANCE OF THE NFPA, NEC AND TO THE SATISFACTION
ND PATHWAYS SHALL ADHERE TO TIA-569-D.
AND GROUNDING SHALL ADHERE TO TIA-607-D.
COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS TORS, CONSUMABLES, AND APPURTENANCES.
DUIT PATHWAYS TO THE FOLLOWING LOCATIONS FROM THE NEAREST THERWISE NOTED:
PANELS/ENCLOSURES

### **ABBREVIATIONS**

MAGNETIC

MANUAL

@ A/C A (AMP) AC ADJ ADJT AFF AHJ AIC ALT ANN ARCH ATC	AT AIR CONDITIONING(ER) AMPERE ABOVE COUNTER, ALTERNATING CURRENT ADJUSTABLE ADJACENT ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY ALTERNATE ANNUNCIATOR ARCHITECT; ARCHITECTURAL	MAG MAN MAT MCA MCBM MCBM MECH MEZZ MG MIN MISC MLO MOCP
AUTO AUX AWG BKBD	AUTOMATIC TRANSFER SWITCH AUTOMATIC AUXILIARY AMERICAN WIRE GAUGE	MS MTD MTG MTR
BKR BLDG C	BREAKER BUILDING CONDUIT	N N/A NC NEC
CAP CB CKT CLG CLR COL COM CPS CT CTL CU	CAPACITY CIRCUIT BREAKER CIRCUIT CEILING CLEAR COLUMN COMMUNICATION CYCLES PER SECOND CURRENT TRANSFORMER CONTROL COPPER	NEMA NESC NEUT NFPA NIC NO NTS OC OFCI
DC DISC SW DISC DN DWG	DIRECT CURRENT DISCONNECT SWITCH DISCONNECT DOWN DRAWING	OFOI OL OS P
E EDH EF EGC EL ELEC ELEV EM EMT ENCL ENTR EP EPO EQUIP/EQP EWC EWH EXH EXT EXIST	EXIST, EAST ELECTRIC DUCT HEATER EXHAUST FAN EQUIPMENT GROUNDING CONDUCTOR ELEVATION ELECTRIC(AL) ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING ENCLOSURE ENTRANCE EXPLOSION PROOF EMERGENCY POWER OFF EQUIPMENT ELECTRIC WATER COOLER ELECTRIC WATER HEATER EXHAUST EXTERIOR EXISTING	PA PAR PB PF PH PIV PNL POC PWR QTY RAD RECP REF RLA RPM
F FA FAA FAP FC FCU FD FDR FIXT FLA FSD	FAHRENHEIT/FUSE FIRE ALARM FIRE ALARM ANNUNCIATOR FIRE ALARM PANEL FOOTCANDLE FAN COIL UNIT FIRE DAMPER FEEDER FIXTURE FULL LOAD AMPS FIRE/SMOKE DAMPER	S SC SD SECT SF SHT SPEC SPL SQ STOR SPD SW
GEC GEN GFI GER	GROUNDING ELECTRODE CONDUCTOR GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY	SWBD SYM SYS T
H HOA HOR HP HR	HEIGHT HAND OFF AUTOMATIC HORIZONTAL HORSEPOWER HOUR	TB TC TEL TV TYP
HT HW HZ IBC	HEIGHT HOT WATER HERTZ INTERNATIONAL BUILDING CODE	UFC UG UH UL UON
IC IES IEEE IG IMC IN ISP	INTERCOM ILLUMINATING ENGINEERING SOCIETY INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS ISOLATED GROUND INTERMEDIATE METAL CONDUIT INCH INTERNET SERVICE PROVIDER	UV VAV VEL VM VOL
JB	JUNCTION BOX	W WAP
KCMIL KVA KVAR KW KWH	THOUSAND CIRCULAR MILLS KILOVOLT AMPERES KILOVOLT AMPERES REACTIVE KILOWATT KILOWATT HOUR	W/ W/O WH WHM WP
LBS LF LRA LS	POUNDS LINEAR FEET (FEET) LOCKED ROTOR AMPS LIFE SAFETY LIGHT	X XFMR XMTR Z
LTG LV	LIGHTING LOW VOLTAGE	& IE:

MATERIAL MAXIMUM MINIMUM CIRCUIT AMPACITY IAIN CIRCUIT BREAKER MECHANICAL MEZZANINE MOTOR GENERATOR MINIMUM MISCELLANEOUS MAIN LUG ONLY MAXIMUM OVERCURRENT PROTECTION MAGNETIC STARTER MOUNTED MOUNTING MOTOR NORTH; NEUTRAL NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRICAL SAFETY CODE NEUTRAL NATIONAL FIRE PROTECTION ASSOC. NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED OVERLOAD OPTIONAL STANDBY PRIMARY PUBLIC ADDRESS PARALLEL PULL BOX PHOTO ELECTRIC POWER FACTOR PHASE POST INDICATOR VALVE PANEL POINT OF CONNECTION POWER QUANTITY RELOCATE (D) RADIUS RECEPTACLE REFRIGERATOR RATED LOAD AMPS **REVOLUTIONS PER MINUTE** SOUTH SECURITY SMOKE DETECTOR SECTION SUPPLY FAN SHEET SPECIFICATION SPECIAL SQUARE STORAGE SURGE PROTECTION DEVICE SWITCH SWITCHBOARD SYMMETRICAL SYSTEM THERMOSTAT TERMINAL BOX TIME CLOCK TELEPHONE TELEVISION

> UNIFORM FIRE CODE UNDERGROUND UNIT HEATER UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED UNIT VENTILATOR

VOLT VARIABLE AIR VOLUME VELOCITY VOLTMETER VOLUME

TYPICAL

WATT, WEST WIRELESS ACCESS POINT WITH WITHOUT WATER HEATER

WATTHOUR METER WEATHERPROOF REACTANCE

TRANSFORMER TRANSMITTER

IMPEDANCE AND

THAT IS

GROUP

111 SW Fifth Ave, Ste 3210 Portland, Oregon 97204 Tel 503.416.2400

Fax 206.267.1701 SAZAN# 646-22028

Ш ш I S () S DR C 9 ND SШ & SHE RAL NS GENEF Ш BR  $\overline{\infty}$ Ш  $\triangleleft$ Sheet No. E0.00

	ELECTRICAL SHEET INDEX
E0.00	GENERAL NOTES, ABBREVIATIONS & SHEET INDEX
E0.01	ELECTRICAL LEGEND
E1.01	ELECTRICAL SITE PLAN
E1.02	ELECTRICAL LIGHTING SITE PLAN
E1.03	PHOTOMETRIC SITE PLAN
E2.00	LUMINARE SCHEDULE
E2.01	LIGHTING CONTROL SCHEDULES
E3.01	ELECTRICAL LIGHTING PLAN
E4.01	ELECTRICAL POWER PLAN
E5.01	ELECTRICAL SYSTEM PLAN
E6.00	ELECTRICAL ONE LINE DIAGRAM, PANEL, HVAC SCHEDULES
E7.00	ELECTRICAL DETAILS

			SYMBOLS   FGEND - POWER
SYMBOL		SYMBOL	DESCRIPTION
	DRAWING CONSTRUCTION ("FLAG") NOTE		TRANSFORMER
X-XX	EQUIPMENT IDENTIFIER	<del></del>	
	MATCHLINE	<b>○</b> <u>↓</u> <u>↓</u> <u>↓</u>	POLE-MOUNTED TRANSFORMER
		2	POLE
	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)		DELTA WYF
<u>_1</u>	REVISION REFERENCE		MEDIUM VOLTAGE CABLE TERMINATOR
	EXISTING TO BE REMOVED (HATCH)	<b>⊷</b> •–  ı	LIGHTNING ARRESTORS
	HEAVY LINEWEIGHT INDICATES NEW WORK	• (  )	SURGE ARRESTORS
	LIGHT LINEWEIGHT INDICATES EXISTING INFORMATION	•/li	NEUTRAL GROUNDING RESISTOR
<b>♦</b>	POINT OF CONNECTION	M	METER
X XX.XX	DETAIL REFERENCE		MICROPROCESSOR CONTROLLED MONITOR REFER TO SPECIFICATIONS FOR METERING VALUES AND PROTECTIVE FUNCTIONS
		₹	CURRENT TRANSFORMER
XXXXX	ELEVATION KEFEKENCE ELEVATION IDENTIFICATION NUMBER SHEET WHERE ELEVATION IS DRAWN		POTENTIAL TRANSFORMER
	SECTION REFERENCE SECTION	AM	INDICATING INSTRUMENT AM-AMMETER; VM-VOLTMETER; FM-FREQUENCY METER; kVAR-KILOVAR METER; kWH-KILOWATT HOUR METER; kWH/D-KILOWATT HOUR DEMAND METER
N N		AS	INSTRUMENT SWITCH AS-AMMETER SWITCH; VS-VOLTMETER SWITCH; SS-SYNCHRONIZING SWITCH; SV-SUPERVISORY (LOCAL-REMOTE) SWITCH
			SEPARABLE CONNECTOR
	SYMBOLS LEGEND - GENERAL	-≪_52≫-	DRAWOUT AC TYPE POWER CIRCUIT BREAKER
SYMBOL	I DESCRIPTION		
CO 3/4' CIR GR	NDUIT CONCEALED IN CEILING SPACE OR IN WALL. PROVIDE MINIMUM "WITH #12 AWG CONDUCTORS AND DEDICATED NEUTRAL EACH RCUIT UNLESS OTHERWISE NOTED ON PLAN. PROVIDE EQUIPMENT ROUNDING CONDUCTORS SIZED PER NFPA 70.	SYMBOL	SYMBOLS LEGEND - POWER DESCRIPTION
	EXIBLE METAL CONDUIT		480Y/277V, 3Ø, 4W PANELBOARD
co	NDUIT - CONCEALED IN OR UNDER FLOOR		208Y/120V, 3Ø, 4W PANELBOARD
			EQUIPMENT CABINET - TYPE AS NOTED
	W-VOLTAGE WIRING (CLASS B)	<u>xx</u>	
	NDUIT OR CABLE VERTICAL UP		PANELBOARD
] co	NDUIT STUB - TERMINATE WITH BUSHING OR CAP IF UNDERGROUND		
BRI	EAK LINE NDUIT SEAL		TRANSFER SWITCH ( AUTO )
	PANSION FITTING	•/ •	
	BLE TRAY	XXXXXX	AMPERES SHORT CIRCUIT AVAILABLE (SYMMETRICAL)
A-1,3,5	ANCH CIRCUIT NUMBERS	(#####	FEEDER TAG - REFER TO FEEDER SCHEDULE
	NEL DESIGNATION ME RUN TO SOURCE OF SUPPLY		
	NDUCTORS - CONNECTED		
	NDUCTORS - NOT CONNECTED		
1 JUL	NCTION BOX		
PR PU	LLBOX - SIZE AS INDICATED OR AS REQUIRED BY CODE		
	NDHOLE		
SVMPC			

SYMBOLS LEGEND - AUDIO VISUAL / CLOCK										
SYMBOL	DESCRIPTION									
τV	TV OUTLET									

SYMBOLS LEGEND - POWER											
SYMBOL	DESCRIPTION										
CB ¢)	CIRCUIT BREAKER ST - INDICATES SHUNT TRIP										
CB xxxA/xP	ENCLOSED CIRCUIT BREAKER (PLAN VIEW) xxxA/xP - AMPS/POLES										
°)	ENCLOSED CIRCUIT BREAKER (ONE-LINE DIAGRAM) xxxA/xP - AMPS/POLES										
	BREAKER WITH EXTERNAL GROUND FAULT RELAY AND CT										
ွ်)္	CIRCUIT BREAKER WITH INTEGRAL GROUND FAULT PROTECTION										
¢) ()	MOTOR-OPERATED CIRCUIT BREAKER										
	SWITCH WITH EXTERNAL GROUND FAULT RELAY AND CT										
	MOV SURGE PROTECTION										
	RESISTOR										
— <b>[</b> ]	FUSE										
x	MOTOR THERMAL OVERLOADS - (3) UNLESS OTHERWISE NOTED										
	NORMALLY OPEN CONTACT										
<b>//</b>	NORMALLY CLOSED CONTACT										
<u>م</u> کم (۱	SOLENOID VALVE										
X	MOTOR-OPERATED VALVE										
T	THERMOSTAT										
•	TERMINAL BLOCK										
) ج_+اال-	INDICATING LIGHT - TYPE AS NOTED A-AMBER; B-BLUE; G-GREEN; R-RED; W-WHITE BATTERY										

	SYMBOLS LEGEND - WIRING DEVICES												
SYMB	OL	DESCRIPTION											
\$		SINGLE-POLE WALL SWITCH MOUNT SWITCHES AT 48" AFF. TO TOP, UON.											
\$	хх	WALL SWITCH - SUBSCRIPT											
		2 = 2-POLELV = LOW-VOLTAGE3 = 3-WAYOS = OCCUPANCY SENSOR TYPE4 = 4-WAYOP = OCCUPANCY/PHOTOELECTRIC TYPEK = KEYEDWP = WEATHERPROOFLOWER CASE LETTER INDICATES SWITCHING GROUPMOUNT SWITCHES AT +48" AFF. TO TOP, UON. ANY COMBINATION OFSWITCH TYPES CAN BE USED (IE. 3K = 3-WAY KEYED SWITCH)											
$\bigcirc$	)	SPECIAL PURPOSE RECEPTACLE TYPE AS SHOWN ON PLANS											
) D	₽	SINGLE SERVICE OR COMBINATION FLUSH MOUNTED FLOOR BOX. REFER TO FLOOR PLANS FOR DEVICES.											
	₽	SINGLE SERVICE OR COMBINATION FLUSH FLOOR POKE THRU. REFER TO FLOOR PLANS FOR DEVICES.											
	   ]	POWER/COMM POLE - FLOOR TO CEILING. SURFACE MOUNTED FLOOR BOX (PEDESTAL TYPE). PUSH BUTTON											
¢	)	SIMPLEX RECEPTACLE NEMA 5-20R, +18" AFF UON											
€	₽	NEMA 5-20R, +18" AFF UON											
₽ĭ	₽⊺	TAMPER RESISTANT, NEMA 5-20R, +18" AFF UON											
€s	₿	SWITCHED RECEPTACLE, NEMA 5-20R, +18" AFF UON											
€IG	₩IG	ISOLATED GROUND, NEMA 5-20R, +18" AFF UON											
⊕●	⊕•	NEMA 5-20R W/ GROUND FAULT CIRCUIT INTERRUPTER, +18" AFF UON											
<b>O</b>	<b>—</b>	SPLIT WIRED, NEMA 5-20R, +18" AFF UON											
€=	⊕=	CONTROLLED, NEMA 5-20R, +18" AFF UON											
€	₽	NEMA 5-20R, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.											
€	₽	NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.											
₽	₽	TAMPER RESISTANT, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.											
<b>e</b>		NEMA 5-20R, CONNECTED TO EMERGENCY CIRCUIT, +18" AFF UON											
<b>\$</b> =	<b>¢</b> =	NEMA 5-20R ON EMERGENCY CIRCUIT MOUNTED ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.											
Φ	\	CEILING-MOUNTED, NEMA 5-20R											
¢	=	NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS											
<b>\$</b>	= T	TAMPER RESISTANT, NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS											

		_			a	
	SYMBOLS LEGEND - POWER				) Industri ) 2	00000
SYMBOL	DESCRIPTION		111 SW Fifth Ave, Ste 321	0	<b>5 ENL</b> 21 SW uite 130 18 9770	41.330.
$\langle$	2-POSITION SELECTOR SWITCH		Portland, Oregon 97204		t. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	ò
	3-POSITION SELECTOR SWITCH HAND-OFE-ALITOMATIC		Tel 503.416.2400 Fax 206.267.170	) 1	ANL rison S	0
o-'-ok			SAZAN# 646-22028	H	<b>X I L</b> 3W Mor 950 7205	95.UZ1
	ON-OFF SELECTOR SWITCH		SYMBOLS LEGEND - SECURITY		621 Suite OR 9	503.3
	2-CIRCUIT PUSHBUTTON	SYMBOL	DESCRIPTION	cts	LL o	
	PUSHBUTTON SWITCH MOMENTARY CONTACT	CR	CARD READER. (KP = KEYPAD)	te	KAN kiversid 0 01	5080
$\otimes$	EQUIPMENT CONNECTION	DC	(WP = WEATHERPROOF) DOOR/WINDOW CONTACT	Chi.	<b>5 P CI</b> 05 W R uite 50 /A 9820	09.25Z.
(G)		ES	ELECTRIC STRIKE	aro	<u>ר</u> -	ñ
(M) SD	SMOKE DAMPER	REX	REQUEST TO EXIT PUSHBUTTON	n	C Ave	00
(M)FSD	FIRE SMOKE DAMPER		REQUEST TO EXIT SENSOR		D Pacifi > 700 98402	cc./79
M	STARTER 3-POLE, NEMA SIZE 1 MINIMUM UNLESS NOTED OTHERWISE		CCTV CAMERA - CEILING MOUNTED	6	1250 1250 Suite WA (	253.
$\boxtimes$	COMBINATION STARTER	WP	(° = ANGLE OF CAMERA VIEW (IE. 180°, 270°, 360°, PTZ))			L.
	HP RATED, 3-POLE, NEMA SIZE 1 MINIMUM, UNLESS NOTED OTHERWISE - OVERCURRENT PROTECTION AS REQUIRED BY FOUIPMENT MANUFACTURER OR AS NOTED		(WP = WEATHERPROOF) (° = ANGLE OF CAMERA VIEW (IE. 180°, 270°, 360°, PTZ))		8-5	ZCV
-0 0-			PANIC / DURESS BUTTON	4		Ĺ
	3-POLE UNLESS NOTED OTHERWISE	X IC	INTERCOM OUTLET (D = DESK MOUNTED)		$\langle \rangle \langle \rangle$	
	FUSED DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE		(W = WALL MOUNTED @ +48" AFF)	Stamp		
— <u>C</u> —	CONTACTOR					
	RELAY COIL		MOTION DETECTOR - INFRARED TYPE UNLESS OTHERWISE NOTED			
CR	CR-CONTROL RELAY; TD-TIME DELAY RELAY; UV-UNDERVOLTAGE RELAY; M-MOTOR CONTACTOR	BG	BREAK GLASS SENSOR	otion		
м \$	MOTOR-RATED SWITCH - SIZE OL PER MOTOR REQUIREMENTS		ALARM BELL	ISIONS Descrip		
⊬	EQUIPMENT EMERGENCY SHUTDOWN SWITCH			G REV		
		]	SYMBOLS LEGEND - FIRE ALARM	RAWIN		
	SYMBOLS LEGEND - LIGHTING	SYMBOL ESR	DESCRIPTION FIRE ALARM SYSTEM CONTROL PANEL	ā		
SYMBOL L1	LIGHT FIXTURE IDENTIFIER - REFER TO LUMINAIRE SCHEDULE		ESR - ELEVATOR STATUS/RECALL FAC - FIRE ALARM COMMUNICATOR	Date		
• A- Z-X FM	1 - PANEL NAME - CIRCUIT NUMBER		FACE - FIRE ALARM CONTROL PANEL FAA OR FARA - FIRE ALARM ANNUNCIATOR HVA - HVAC OR EXHAUST STAIRWELL PRESSURIZATION	*		
	ROOM NUMBER - END DIGITS REFER TO SWITCH LEG SUBSCRIPT (IF APPLICABLE)	FS	LCD - FIRE ALARM LCD ANNUNCIATOR FIRE ALARM FLOW SWITCH			
	* IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: RL1 / A-1 / a / NL	PS DH	HI/LO AIR PRESSURE SWITCH HI/LO AIR PRESSURE SWITCH			
	SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP		VALVE SUPERVISORY SWITCH			
			POST INDICATOR VALVE SUPERVISORY SWITCH FIRE ALARM PULL STATION			
			FIRE/SMOKE DAMPER			
	2x2 LUMINAIRE					
	LINEAR LUMINARE		FIRE ALARM HORN STROBE, XX = CANDELA RATING		AS	Ē
	WALL WASH LUMINAIRE	XX S		<b>₩</b>	ADR	S
			FIRE ALARM SPEAKER STROBE XX = CANDELA RATING	S	μ	C
⊢≗ᅴ	STRIP LUMINAIRE			AS	γo	%
0	DOWNLIGHT		FIRE ALARM STROBE ONLY - WALL, XX = CANDELA RATING	DR	CIT	06
0	WALL WASH DOWNLIGHT LUMINAIRE	F P	FIRE ALARM BELL	<b>A</b> A		
ю			HEAT DETECTOR, RATE OF RISE AND FIXED TEMPERATURE UON	E		
(), ()	PENDANT MOUNTED LUMINAIRE		F - FIXED TEMPERATURE R - RATE OF RISE ONLY			
ΔΔΔ	TRACK LIGHT - LENGTH AS INDICATED ON PLANS NUMBER OF LUMINAIRES AS SHOWN		R/C - RATE COMPENSATION			
	POLE-MOUNTED LUMINAIRE - NUMBER OF LUMINAIRES AS	S	SMOKE DETECTOR, PHOTOELECTRIC UON BT - BEAM TRANSMITTER			
	STREET LIGHT		BR - BEAM RECEIVER I - IONIZATION			
0	IN-GROUND LANDSCAPE LUMINAIRE		FIRE ALARM DUCT SMOKE DETECTOR, WITH SAMPLING TUBE			
$\bigotimes$	ILLUMINATED EXIT SIGN - SINGLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT		FLAME DETECTOR			
<b>†</b> €†	ILLUMINATED EXIT SIGN - DOUBLE FACE ARROW INDICATES	Ŏ	GAS DETECTOR			000
ঀঊ₽	BATTERY-POWERED EMERGENCY WALLPACK		ADDRESSABLE INPUT MODULE		ž	101 062.(
	COMBINATION BATTERY POWERED EMERGENCY WALL PACK					0210
	AND ILLUMINATED EXIT SIGN		FIRE ALARM EQUIPMENT CONNECTION			<u>o</u>
(OS)	OCCUPANCY SENSOR CEILING MOUNTED WITH POWER PACK - DUAL TECHNOLOGY TYPE UNLESS NOTED:	R	RELAY BLOCK		wn By	ject N
OS <sub>11</sub>	U = ULTRASONIC			AL	Dra	- Bro
<u>os</u> _	P = PASSIVE INFRARED					
Hos	OCCUPANCY SENSOR WALL MOUNTED	SYMBOL	DESCRIPTION	TR		
(PC)	PHOTOELECTRIC CONTROL CEILING MOUNTED			U U	, c	
					2/17,	-
			GROUND WELL	ving 1		ised :
			AIR TERMINAL	Drav	Date	Rev
				Sheet No.		
				E	.00	1
					🕶	

				1	F	
	SYMBOLS LEGEND - POWER			]	) Industria 2 3506	- AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
SYMBOL	DESCRIPTION		111 SW Fifth Ave, Ste 32	10	ENC 21 SW   1.111 130 11 330 (	
$\sim$	2-POSITION SELECTOR SWITCH		Portland, Oregon 97204		20073 	D
			Tel 503.416.240 Fax 206.267.170	0	AND ison St	
oi ook	S-POSITION SELECTOR SWITCH HAND-OFF-AUTOMATIC		SAZAN# 646-22028		<b>₹TL</b> , W Morr 950 *205	V170.00
	ON-OFF SELECTOR SWITCH		SYMBOLS LEGEND - SECURITY		<b>PO</b> 621 S' Suite { OR 97	0.000
<u> </u>	2-CIRCUIT PUSHBUTTON	SYMBOL	DESCRIPTION	cts		
	PUSHBUTTON SWITCH MOMENTARY CONTACT	CR	CARD READER. (KP = KEYPAD)	tec	<b>XANI</b> verside 1	0000
$\odot$	EQUIPMENT CONNECTION		(WP = WEATHÉRPROOF)	i.	<b>POK</b> 5 W Ri lite 500 A 9820 A 9820	9.202.0
∕G∕	GENERATOR			arc	<b>–</b> Su Su Su	
(M) SD	MOTOR CONNECTION			B		2
(M)FSD	FIRE SMOKE DAMPER		REQUEST TO EXIT SENSOR	2	<b>CON</b> Pacific 700 8402	000.17
3 —(M)—	STARTER 3-POLE, NEMA SIZE 1 MINIMUM UNLESS NOTED OTHERWISE		CCTV CAMERA - CEILING MOUNTED	В	TA 1250 Suite WA 9 WA 9	0.002
	COMBINATION STARTER	WP	(WP = WEATHERPROOF) (° = ANGLE OF CAMERA VIEW (IE. 180°, 270°, 360°, PTZ))			
	HP RATED, 3-POLE, NEMA SIZE 1 MINIMUM, UNLESS NOTED OTHERWISE - OVERCURRENT PROTECTION AS REQUIRED BY	-EX WP	CCTV CAMERA - WALL MOUNTED (WP = WEATHERPROOF) (° = ANGLE OF CAMERA VIEW (IE, 180°, 270°, 360°, PTZ))		8-2	
7			PANIC / DURESS BUTTON			Ĺ
	3-POLE UNLESS NOTED OTHERWISE		INTERCOM OUTLET (D = DESK MOUNTED)		$\langle \langle \rangle \rangle$	<b>N</b>
ᡁ᠆ᠣ᠂ᢆᢦ᠇᠋᠋ᠴ᠇	FUSED DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE		(W = WALL MOUNTED @ +48" AFF)	Stamp		
	CONTACTOR		KEYPAD - ALARM PANEL			
	RELAY COIL	MD	MOTION DETECTOR - INFRARED TYPE UNLESS OTHERWISE NOTED			
CR	CR-CONTROL RELAY; TD-TIME DELAY RELAY; UV-UNDERVOLTAGE RELAY; M-MOTOR	BG	BREAK GLASS SENSOR	tion		
¢M		Å	ALARM BELL	<b>SIONS</b> escrip		
≁ ⊢∎	EQUIPMENT EMERGENCY SHUTDOWN SWITCH			G REV		
			SYMBOLS LEGEND - FIRE ALARM	AWING		
	SYMBOLS LEGEND - LIGHTING	SYMBOL	DESCRIPTION FIRE ALARM SYSTEM CONTROL PANEL	D		
SYMBOL	DESCRIPTION		ESR - ELEVATOR STATUS/RECALL FAC - FIRE ALARM COMMUNICATOR	Date		
O A - Z-X	1 - PANEL NAME - CIRCUIT NUMBER		FACP - FIRE ALARM CONTROL PANEL FAA OR FARA - FIRE ALARM ANNUNCIATOR HVA - HVAC OR EXHAUST STAIRWELL PRESSURIZATION			
EM	ROOM NUMBER - END DIGITS REFER TO SWITCH LEG — SUBSCRIPT (IF APPLICABLE)	FS	LCD - FIRE ALARM LCD ANNUNCIATOR FIRE ALARM FLOW SWITCH			
	* IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: RL1 / A-1 / a / NL	PS				
	SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH	VS	VALVE SUPERVISORY SWITCH			
		(PIV) F	POST INDICATOR VALVE SUPERVISORY SWITCH FIRE ALARM PULL STATION			
	1x4 LUMINAIRE		FIRE/SMOKE DAMPER	~		
0	2x2 LUMINAIRE		SMOKE DAMPER FIRE ALARM HORN ONLY			_
	LINEAR LUMINARE	, ⊡ , ⊠⊲	FIRE ALARM HORN STROBE, XX = CANDELA RATING		SAS	Ë
	WALL WASH LUMINAIRE	XX S	FIRE ALARM SPEAKER ONLY	뿔	ADR	S
⊏≞⊐	WALL MOUNTED LUMINAIRE		FIRE ALARM SPEAKER STROBE, XX = CANDELA RATING	S S	E E	IJ
<b>⊢−○−−</b> 1	STRIP LUMINAIRE	⊤xx ⊨∞`	FIRE ALARM STROBE ONLY - WALL, XX = CANDELA RATING	SAS	C ∠	%
0	DOWNLIGHT	×xx ×xx	FIRE ALARM STROBE ONLY - CEILING, XX = CANDELA RATING	DI	C	06
Ю	WALL WASH DOWNLIGHT LUMINAIRE WALL MOUNTED LUMINAIRE	Fp	FIRE ALARM BELL	۲×		
Ю	WALL MOUNTED DIRECTIONAL LUMINAIRE	$\langle \bullet \rangle$	HEAT DETECTOR, RATE OF RISE AND FIXED TEMPERATURE UON			
•	PENDANT MOUNTED LUMINAIRE TRACK LIGHT - LENGTH AS INDICATED ON PLANS		R - RATE OF RISE ONLY R/C - RATE COMPENSATION			
	NUMBER OF LUMINAIRES AS SHOWN	$\langle s \rangle$	SMOKE DETECTOR, PHOTOELECTRIC UON			
	SHOWN ON PLANS		BT - BEAM TRANSMITTER BR - BEAM RECEIVER			
¤	STREET LIGHT	Ц	I - IONIZATION			
	ILLUMINATED EXIT SIGN - SINGLE FACE ARROW INDICATES	(S)	FIRE ALARM DUCT SMOKE DETECTOR WITH SAMPLING TUBE			
	DIRECTION OF EGRESS, UNIVERSAL MOUNT ILLUMINATED EXIT SIGN - DOUBLE FACE ARROW INDICATES	$\bigcirc$	FLAME DETECTOR GAS DETECTOR			8
4.00	DIRECTION OF EGRESS, UNIVERSAL MOUNT	(AIM)	ADDRESSABLE INPUT MODULE	Q	č	62.0
	COMBINATION BATTERY POWERED EMERGENCY WALLPACK	(AOM)			Auth	0210
			FIRE ALARM EQUIPMENT CONNECTION	U Ш	 	o
(OS)	TECHNOLOGY TYPE UNLESS NOTED:	R	RELAY BLOCK		awn B	oject 1
	U = ULTRASONIC			ЭГ	D	Ľ L
OS <sub>P</sub>	P = PASSIVE INFRARED		SYMBOLS LEGEND - GROUNDING	RIC		
Hos	OCCUPANCY SENSOR WALL MOUNTED	SYMBOL	DESCRIPTION			
PC	PHOTOELECTRIC CONTROL CEILING MOUNTED	<u> </u>	GROUND CONNECTION	Ш	CCL	1
HPC	PHOTOELECTRIC CONTROL WALL MOUNTED	<b> </b> •–  ı	GROUND ROD		17/20	1
		I ⊙+II	GROUND WELL	ιg Titl€	8/	 چ
			AIR TERMINAL	Drawir	)ate :	Revise
		L		Sheet No	D.	
					:U U,	1
					-0.0	•



- A. ENGAGE A LOCATING SERVICE TO IDENTIFY AND TRACE ROUTING OF UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR ELECTRICAL
- B. ROUTING SHOWN IS DIAGRAMMATIC. DETERMINE EXACT ROUTING IN FIELD. C. REFER TO PACIFIC POWER'S POLICY 343 -UNDERGROUND CONDUIT
- SYSTEMS FOR PRIMARY AND SECONDARY CONDUCTORS DOCUMENT FOR
- D. REFER TO SHEET E6.00 ONE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR



111 SW Fifth Ave, Ste 3210 Portland, Oregon 97204



4 PENC LL SH C 5 Z SITE ELECTRICAL  $\overline{\infty}$ Sheet No. E1.01





0' 1' 2' 4'

### SHEET NOTES

- A. ALL SITE LIGHTING TO BE CONTROLLED VIA CENTRALIZED PHOTOCELL THAT ACTIVATES LIGHTING WHEN LESS THAN 5FC IS SENSED AND EXTINGUISHES WHEN MORE THAN 5FC IS SENSED.
- B. ALL BUILDING MOUNTED LIGHTING TO BE CONTROLLED VIA CENTRALIZED ASTRONOMICAL TIMECLOCK. DIM LIGHITNG BY 50% BETWEEN HOURS OF MIDNIGHT AND 6AM.

 $\leq A$ GROUP

111 SW Fifth Ave, Ste 3210 Portland, Oregon 97204

	•
2	
	c

SAZAN# 646-22028



		<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.3	<sup>+</sup> 0.5	<sup>+</sup> 1.0	<sup>+</sup> 1.5	<sup>+</sup> 2.2	<sup>†</sup> 2.9	+ 3.3	+3.5	<sup>+</sup> 3.4	<sup>+</sup> 3.4	<sup>+</sup> 3.4	<sup>+</sup> 3.5	*3.4	<sup>+</sup> 2.9	<sup>+</sup> 2.3	1.7	<sup>+</sup> 1.2	<sup>+</sup> 0.8	<sup>+</sup> 0.7	<sup>+</sup> 0.7	<sup>+</sup> 0.8	<sup>+</sup> 1.0	1.2	<sup>+</sup> 1.3	1.3	<sup>+</sup> 1.3	1.3	<sup>+</sup> 1.4	<sup>+</sup> 1.4	<sup>+</sup> 1.4	+
		<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.3	<sup>+</sup> 0.6	<sup>+</sup> 1.1	+1.9	<sup>+</sup> 2.8	<sup>+</sup> 3.7	<sup>+</sup> 4.0	<sup>+</sup> 4.2	<sup>+</sup> 4.3	<sup>+</sup> 4.4	<sup>+</sup> 4.3	<sup>+</sup> 4.2	<sup>+</sup> 4.0	<sup>+</sup> 3.7	<sup>+</sup> 2.9	<sup>+</sup> 2.1	<sup>+</sup> 1.4	<sup>+</sup> 1.0	<sup>+</sup> 0.9	<sup>+</sup> 0.9	<sup>+</sup> 1.1	<sup>+</sup> 1.4	<sup>+</sup> 1.8	<sup>+</sup> 2.1	<sup>+</sup> 2.4	<sup>+</sup> 2.4	<sup>+</sup> 2.5	<sup>+</sup> 2.5	<sup>+</sup> 2.5	<sup>+</sup> 2.5	+,
	6.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.3	<sup>+</sup> 0.6	1.2	<sup>+</sup> 2.2	<sup>+</sup> 3.5	<sup>+</sup> 4.4	<sup>+</sup> 4.9	<sup>+</sup> 5.1	<sup>+</sup> 4.9	<sup>+</sup> 4.8	<sup>+</sup> 4.8	<sup>+</sup> 5.1	<sup>+</sup> 4.9	<sup>+</sup> 4.5	<sup>+</sup> 3.6	<sup>+</sup> 2.3	<sup>+</sup> 1.5	<sup>+</sup> 1.1	<sup>+</sup> 1.0	<sup>+</sup> 1.1	<sup>+</sup> 1.4	<sup>+</sup> 1.8	<sup>+</sup> 2.4	<sup>+</sup> 3.0	<sup>+</sup> 3.6	<sup>+</sup> 3.8	<sup>+</sup> 3.8	<sup>+</sup> 3.9	<sup>+</sup> 4.0	<sup>+</sup> 4.2	+
Ł	0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.2	<sup>+</sup> 0.1	<sup>+</sup> 0.3	<sup>+</sup> 0.6	1.2	<sup>+</sup> 2.3	*3.8	4.9	<sup>+</sup> 5.7	<sup>+</sup> 6.7	<sup>+</sup> 6.4	<sup>+</sup> 6.3	<sup>+</sup> 6.4	<sup>+</sup> 6.7	<sup>+</sup> 5.6	<sup>+</sup> 5.0	<sup>+</sup> 3.9	<sup>+</sup> 2.4	<sup>+</sup> 1.6	<sup>+</sup> 1.2	<sup>+</sup> 1.1	<sup>+</sup> 1 · 4	<sup>+</sup> 1.8	<sup>+</sup> 2.3	<sup>+</sup> 2.9	+3. F	4.2	<sup>+</sup> 4.5	<sup>+</sup> 4.6	<sup>+</sup> 4.9	- <del>5</del> .1	<sup>+</sup> 5. 7	+
	<sup>+</sup> 0.1	<sup>+</sup> 0.1	<sup>+</sup> 0.2	<sup>+</sup> 0.2	<sup>+</sup> 0.1	<sup>+</sup> 0.3	<sup>+</sup> 0.6	<sup>+</sup> 1.2	<sup>+</sup> 2.3	<sup>+</sup> 3.8	<sup>+</sup> 5.0	<sup>+</sup> 6.3	<sup>+</sup> 6.9	*8.1	<sup>+</sup> 8.5	<sup>+</sup> 8.0	<sup>+</sup> 6.9	<sup>+</sup> 6.1	<sup>+</sup> 5.1	<sup>+</sup> 3.8	<sup>+</sup> 2.4	<sup>+</sup> 1.6	<sup>+</sup> 1.2	<sup>+</sup> 1.2	<sup>+</sup> 1.5	<sup>+</sup> 2.0	<sup>+</sup> 2.7	<sup>+</sup> 3.2	<sup>+</sup> 3.9	<sup>+</sup> 5.3	<sup>+</sup> 5.7	<sup>+</sup> 6.2	<sup>+</sup> 6.6	<sup>+</sup> 7.1	<sup>+</sup> 8.1	+
	<sup>+</sup> 0.1	<sup>+</sup> 0.2	<sup>+</sup> 0.2	<sup>†</sup> 0.6	+0.7	+0.8	<sup>+</sup> 0.6	<sup>+</sup> 1.4	<sup>+</sup> 2.4	<sup>+</sup> 3.8	<sup>+</sup> 5.0	<sup>+</sup> 6.4	<sup>+</sup> 7.3	10.8	<sup>+</sup> 12.6 01B/2H	<sup>+</sup> 10.6	<sup>+</sup> 7.3	<sup>+</sup> 6.2	<sup>+</sup> 5.1	<sup>+</sup> 3.8	<sup>+</sup> 2.4	<sup>+</sup> 1.6	<sup>+</sup> 1.1	<sup>+</sup> 1.2	<sup>+</sup> 1.5	<sup>+</sup> 2.0	<sup>+</sup> 2.7	<sup>+</sup> 3.4	4.0	<sup>+</sup> 5.1	<sup>+</sup> 5.9	<sup>+</sup> 6.6	7.3	*8.0	*8.8	+ <u></u>
	⊷0.2	<sup>+</sup> 0.3	<sup>+</sup> 0.3	<sup>†</sup> J.6	<sup>+</sup> 0.7	+0.8	<sup>+</sup> 0.6	<sup>+</sup> 1.5	<sup>+</sup> 2.4	<sup>+</sup> 3.8	<sup>+</sup> 5.1	+6.4	<sup>+</sup> 7.4	11.4	13.5 <sup>+</sup>	, 11.2	<sup>+</sup> 7.3	<sup>+</sup> 6.2	<sup>+</sup> 5.1	<sup>+</sup> 3.7	<sup>+</sup> 2.4	<sup>+</sup> 1.5	<sup>+</sup> 1.0	<sup>+</sup> 1.0	<sup>+</sup> 1.2	<sup>+</sup> 1.7	<sup>+</sup> 2.3	<sup>+</sup> 3.1	<sup>+</sup> 3.7	<sup>+</sup> 4.3	<sup>+</sup> 5.1	<sup>+</sup> 7.3	+9 01A 2H1	<sup>+</sup> 9.5 1-55	*8.4	+
	0.3	<sup>+</sup> 0.4	<sup>+</sup> 0.6	<sup>-</sup> , 6	<sup>+</sup> 0.9	<sup>+</sup> 1.1	<sup>+</sup> 1.0	<sup>+</sup> 1.6	<sup>+</sup> 2.5	<sup>+</sup> 3.9	<sup>+</sup> 5.1	<sup>+</sup> 6.4	<sup>+</sup> 7.1	<sup>+</sup> 9.1	<sup>+</sup> 9.7	<sup>+</sup> 8 . 9	<sup>+</sup> 7.1	<sup>+</sup> 6.3	<sup>+</sup> 5.0	<sup>+</sup> 3.7	<sup>+</sup> 2.4	<sup>+</sup> 1.4	<sup>+</sup> 0.9	<sup>+</sup> 0.7	<sup>+</sup> 0.7	<sup>+</sup> 0.9	<sup>+</sup> 1.2	<sup>+</sup> 1.4	<sup>+</sup> 1.7	<sup>+</sup> 2.1	<sup>+</sup> 2.9	<sup>+</sup> 3.9	<sup>+</sup> 5.7	<sup>+</sup> 5.6	<sup>+</sup> 5.0	+
İ	0.4	<sup>+</sup> 0.7	<sup>+</sup> 0.9	<sup>†</sup> ว.9	<sup>+</sup> 1.2	<sup>+</sup> 1.3	<sup>+</sup> 1.2	<sup>+</sup> 1.7	<sup>+</sup> 2.6	<sup>+</sup> 4.1	⁺5.2	<sup>+</sup> 5.9	<sup>+</sup> 6.9	<sup>+</sup> 6.9	<sup>+</sup> 6.7	<sup>+</sup> 6 . 8	<sup>+</sup> 6.8	⁺5.7	<sup>+</sup> 5.1	<sup>+</sup> 3.9	<sup>+</sup> 2.4	<sup>+</sup> 1.4	<sup>+</sup> 0.8	<sup>+</sup> 0.5	<sup>+</sup> 0.4	<sup>+</sup> 0.4	<sup>+</sup> 0.5	<sup>+</sup> 0.6	<sup>+</sup> 0.7	<sup>+</sup> 1.0	<sup>+</sup> 1.4	<sup>+</sup> 1.8	<sup>+</sup> 2.2	<sup>+</sup> 2.5	<sup>+</sup> 2.8	+
	<sup>+</sup> 0.5	<sup>+</sup> 1.0	<sup>+</sup> 1.3	<sup>+</sup> 1.4	<sup>+</sup> 1.4	1.3	<sup>+</sup> 1.4	<sup>+</sup> 1.8	<sup>+</sup> 2.7	<sup>+</sup> 4.0	+4.9	<sup>+</sup> 5.5	<sup>+</sup> 5.9	<sup>+</sup> 5.6	5.4	<sup>+</sup> 5 • 5	<sup>+</sup> 5.9		4.8	÷3.9	÷ 2.5	 1.5	÷0.9	+ 0.5		.6	0.6	0.6	÷ 0.8	÷0.9	* 1.0	 				+,
	⁺0.6	<sup>+</sup> 1.4	<sup>+</sup> 1.9	<sup>+</sup> 2.0	<sup>+</sup> 1.8	1.7	<sup>+</sup> 1.7	<sup>+</sup> 2.0	<sup>+</sup> 2.6	<sup>+</sup> 3.5	<sup>+</sup> 4.3	<sup>+</sup> 4.6	<sup>+</sup> 4.6	4.7	<sup>+</sup> 4.8	<sup>+</sup> 4.7	<sup>+</sup> 4.6	<sup>+</sup> 4.6	+4.4	+3.8	+2.9	+1.9	+1.0	+0.7	+1.0	<sup>+</sup> 1.9	+ <u>1.4</u>	<sup>+</sup> 0.9	+1.2	<sup>+</sup> 2.1	+2.1	+1.4	+ <u>1.3</u>	+1.8		+
	<sup>⊧</sup> 0.8	<sup>+</sup> 2.1	<sup>+</sup> 2.6	<sup>+</sup> 2.7	<sup>+</sup> 2.4	<sup>+</sup> 2.1	<sup>+</sup> 2.0	<sup>+</sup> 2.1	<sup>+</sup> 2.4	<sup>+</sup> 2.9	<sup>+</sup> 3.5	4.0	4.1	* <b>4.1</b>	<sup>+</sup> 4.2	<sup>+</sup> 4.0	<sup>+</sup> 4.1	<sup>+</sup> 4.0	<sup>+</sup> 4.1	<sup>+</sup> 4.6	<sup>+</sup> 4.6	<sup>+</sup> 3.1	<sup>+</sup> 1.0	<sup>+</sup> 0.7	<sup>+</sup> 2.2	<sup>+</sup> 13.0	<sup>+</sup> 4.2	<sup>+</sup> 1.1	<sup>+</sup> 1.8	*8.5	<sup>+</sup> 7.5	<sup>+</sup> 1.8	<sup>+</sup> 1.2	<sup>+</sup> 1.5	<sup>+</sup> 3.4	+ (
İ	1.0	<sup>+</sup> 2.7	<sup>+</sup> 3.3	<sup>+</sup> 3.3	<sup>+</sup> 3.0	<sup>+</sup> 2.7	<sup>+</sup> 2.4	<sup>+</sup> 2.2	<sup>+</sup> 2.2	<sup>+</sup> 2.5	<sup>+</sup> 2.9	<sup>+</sup> 3.4	<sup>+</sup> 3.6	<sup>+</sup> 3.4	<sup>+</sup> 3.5	<sup>+</sup> 3.4	*3.5	+3.6	+4.3	7.2	61/2HM-56	E . 0				VV1 <b>2</b> NV+2					(-2				*2.7	+
	1.2	<sup>+</sup> 3.4	<sup>+</sup> 3.9	<sup>+</sup> 3.9	<sup>+</sup> <b>3.</b> 7	<sup>+</sup> 3.3	<sup>+</sup> 2.8	<sup>+</sup> 2.2	<sup>+</sup> 2.0	<sup>+</sup> 2.1	<sup>+</sup> 2.5	<sup>+</sup> 2.9	<sup>+</sup> 3.0	<sup>+</sup> 3.0	<sup>+</sup> 3.0	+2.9	t <mark>2.9</mark>	+3.2	+4.3	+8.1	11.9	7.2													+2.2	+
	1.6	+3.8	<sup>+</sup> 4.6	<sup>+</sup> 5.4	+4.3	+ <mark>3</mark> .9	<sup>+</sup> 3.0	<sup>+</sup> 2.2	<sup>+</sup> 1.8	<sup>+</sup> 1.9	<sup>+</sup> 2.2	<sup>+</sup> 2.5	<sup>+</sup> 2.7	<sup>+</sup> 2.8	<sup>+</sup> 2.8	<sup>+</sup> 2.7	<sup>+</sup> 2.5	+2.7	+4.2	to 6	51/2H1-56	7.8													+3.0	+4
	⁺2.4	<sup>+</sup> 4.5	<sup>+</sup> 5.5	<sup>+</sup> 5.9	<sup>+</sup> 4.5	4.1	<sup>+</sup> 3.0	<sup>+</sup> 2.1	<sup>+</sup> 1.7	<sup>+</sup> 1.7	<sup>+</sup> 2.0	<sup>+</sup> 2.4	<sup>+</sup> 2.7	<sup>+</sup> 2.9	<sup>+</sup> 2.9	*2.7	<sup>†</sup> 2.3	+2.3	+3.9	+8.2	<u>+</u> 12.0	7.5													+12.8 W1 /2H1-	+ <u>r</u> ;
i.	⁺2.8	<sup>+</sup> 6.2	<sup>+</sup> 6.3	<sup>+</sup> 6.0	<sup>+</sup> 4.6	<sup>+</sup> <u>4</u> .0	<sup>+</sup> 2.9	<sup>+</sup> 2.0	<sup>+</sup> 1.6	<sup>+</sup> 1.7	+ 2.1	+ <u>2.5</u>	<sup>+</sup> 2.9	<sup>+</sup> 3.2	+3.3	<sup>+</sup> 3.0	<sup>‡</sup> 2.2	+2.0	+3.7	+8.4 C	31/2H1-56	: 8													+7.6	+4
	<sup>+</sup> 4 · 3 •	1Å/2H1-	.56 <sup>+6.9</sup>	<sup>+</sup> 6.2	<sup>+</sup> 4.6	4.1	<sup>+</sup> 2.9	<sup>+</sup> 2.0	<sup>+</sup> 1.6	<sup>+</sup> 1.7	<sup>†</sup> 2.2	<sup>+</sup> 2.8	+3.2	<sup>+</sup> 3.6	<sup>+</sup> 3.7	<sup>+</sup> 3.5	<sup>‡</sup> 2.2	+ <u>1</u> .8	+3.4	<b>₽</b> †7.5	11.2	6.7													+2.2	+
	<b>,</b> 3.7	H ⁺7.7	<sup>+</sup> 6.8	<sup>+</sup> 6.2	<sup>+</sup> 4.6	<sup>+</sup> 4.0	<sup>+</sup> 2.9	<sup>+</sup> 1.9	<sup>+</sup> 1.5	<sup>+</sup> 1.8	2.4	3.2	3.7	4.0	4.2	<sup>+</sup> 4.0	<sup>‡</sup> 2.2	+ <u>1</u> .6	+2.8	+6.9	61/INV-2	5.9													+1.9	+
	⁺ 2.7	<sup>+</sup> <b>5</b> .3	<sup>+</sup> 6.0	<sup>+</sup> 6.1	<sup>+</sup> 4.5	<sup>‡</sup> 4.0	<sup>+</sup> 2.8	<sup>+</sup> 1.8	<sup>+</sup> 1.4	<sup>+</sup> 1.7	<sup>+</sup> 2.6	<sup>+</sup> 3.7	<sup>+</sup> 4.2	<sup>+</sup> 5.1	<sup>+</sup> 4.9	<sup>+</sup> 4.3	<sup>‡</sup> 2.3	<sup>+</sup> 1.5	+2.0	1.3										1	2.2	2.3	2.1	2.1	2.3	+
	<sup>+</sup> 2.1	+ 4.2	<sup>+</sup> 5.5	<sup>+</sup> 5.7	<sup>+</sup> 4.4	<sup>+</sup> 4.0	<sup>+</sup> 2.8	<sup>+</sup> 1.8	<sup>+</sup> 1.4	<sup>+</sup> 1.7	<sup>+</sup> 2.6	<sup>+</sup> 3.8	<sup>+</sup> 4.4	<sup>+</sup> 5.5	<sup>+</sup> 5.9	<sup>+</sup> 5.0	<sup>+</sup> 2.9	+ <u>1</u> .6	+1.2	0.9											8.8	+6.3	*3.5	+3.3	<sup>+</sup> 3.1	+,
	<sup>+</sup> 1.3	<sup>+</sup> 3.4	<sup>+</sup> 4.0	<sup>+</sup> 4.6	<sup>+</sup> 4.0	<sup>+</sup> 3.6	<sup>+</sup> 2.6	<sup>+</sup> 1.8	<sup>+</sup> 1.4	<sup>+</sup> 1.6	<sup>+</sup> 2.5	<sup>+</sup> 3.8	<sup>+</sup> 4.4	<sup>+</sup> 5.9	<sup>+</sup> 6.2	<sup>+</sup> 6.6	+3.7	÷1.8	±1.1	1.0											ЮW1. 10.1	INV-2 7.4	<sup>+</sup> 4.6	+4.4	<sup>+</sup> 4.1	+ .
	<sup>+</sup> 1.1	<sup>+</sup> 3.2	<sup>+</sup> 3.7	<sup>+</sup> 3.6	<sup>+</sup> 3.3	<sup>+</sup> 2.9	<sup>+</sup> 2.2	<sup>+</sup> 1.6	<sup>+</sup> 1.3	<sup>+</sup> 1.7	<sup>+</sup> 2.5	<sup>+</sup> 3.8	<sup>+</sup> 4.4	<sup>+</sup> 5.9	<sup>+</sup> 6.5	01A /2H1- ମ୍ମିତ୍ର ତି	-56 _5.2	+ 2.1	+1.4	1.2											3.6	+4.6	\$\$.0	+5.2	<sup>+</sup> 4.5	]+. 
	⁺0.9	<sup>+</sup> 2.4	+ 3.0	<sup>+</sup> 3.0	<sup>+</sup> 2.7	<sup>+</sup> 2.3	<sup>+</sup> 1.8	<sup>+</sup> 1.4	<sup>+</sup> 1.3	<sup>+</sup> 1.7	<sup>+</sup> 2.5	<sup>+</sup> 3.7	<sup>+</sup> 4.4	<sup>+</sup> 5.8	<sup>+</sup> 6.5	*8.4	<sup>+</sup> 5.0	+2.2	+2.9	3.3	•										3.0	4.3	<sup>+</sup> 5.1	<sup>+</sup> 5.0	(T)	) +
	⁺0.7	<sup>+</sup> 1.7	<sup>+</sup> 2.3	<sup>+</sup> 2.4	<sup>+</sup> 2.1	1.7	<sup>+</sup> 1.4	<sup>+</sup> 1.1	<sup>+</sup> 1.1	<sup>+</sup> 1.6	<sup>+</sup> 2.5	<sup>+</sup> 3.7	<sup>+</sup> 4.4	<sup>+</sup> 5.9	<sup>+</sup> 6.0	<sup>+</sup> 6.1	+3.5	+2.3	+7.2	₩1/INV-2 ₩14.7	2										2.8	*3.9	+4+8	+4.6	01/ <sup>+</sup> 2.2	A /.
	6.6	<sup>+</sup> 1.2	1.6	+1.7	1.6	±1.3	<sup>+</sup> 1.1	<sup>+</sup> 1.0	<sup>+</sup> 1.0	<sup>+</sup> 1.5	<sup>+</sup> 2.5	<sup>+</sup> 3.8	4.3	<sup>+</sup> 5.3	<sup>+</sup> 5.8	<sup>+</sup> 4.7	<sup>+</sup> 2.7	1.6	<sup>+</sup> 3.0	<sup>+</sup> 4 <b>D</b> 5	6.4W	) 1 /2 <u>⊬1</u> -55	+1 (4)	<sup>+</sup> 0.6	<sup>+</sup> 2.9	<b>ठ</b> ⁺ <u>₩</u> 1./2⊦	<b>ح</b> ۱1-55 <sub>.3</sub> ۱	<b>)</b> №1+ <u>/</u> 2 <u>H</u> :1 <sub>2</sub> 5	5 <sup>+</sup> 2.7	<sup>+</sup> 1.8	<sup>+</sup> 2.4	*3.3	<sup>+</sup> 3.9	<sup>+</sup> 4.1	<sup>+</sup> 3.6	+
	6.4	<sup>+</sup> 0.8	<sup>+</sup> 1.1	<sup>+</sup> 1.2	<sup>+</sup> 1.2	+ <u>1</u> .0	<sup>+</sup> 0.9	<sup>+</sup> 0.8	<sup>+</sup> 1.0	<sup>+</sup> 1.5		- - 3.4	<sup>+</sup> 3.9	<sup>+</sup> 4.6	<sup>+</sup> 4.3	<sup>+</sup> 3.8	<sup>+</sup> 1.9	<sup>+</sup> 1.0	<sup>+</sup> 1.0		<sup>+</sup> 2.3	<sup>+</sup> 2.3	0.6	<sup>+</sup> 0.5	<sup>+</sup> 1.4	<sup>+</sup> 3.2	<sup>+</sup> 3.3	<sup>+</sup> 3.1	<sup>+</sup> 1.6	<sup>+</sup> 1.5	<sup>+</sup> 1.9	<sup>+</sup> 2.4	<sup>+</sup> 2.9	<sup>+</sup> 3.1	<sup>+</sup> 2.9	+,
	<sup>+</sup> 0.3	<sup>+</sup> 0.6	<sup>+</sup> 0.8	<sup>+</sup> 0.8	<sup>+</sup> 0.8	<sup>+</sup> 0.7	<sup>+</sup> 0.7	<sup>+</sup> 0.7	<sup>+</sup> 0.9	<sup>+</sup> 1.4	<sup>+</sup> 2.1	<sup>+</sup> 2.8	<sup>+</sup> 3.3	<sup>+</sup> 3.6	+3.8	<sup>+</sup> 3.5	<sup>+</sup> 1.6	<sup>+</sup> 0.6	<sup>+</sup> 0.7	<sup>+</sup> 0.8	<sup>+</sup> 0.8	<sup>+</sup> 0.7	<sup>+</sup> 0.4	<sup>+</sup> 0.4	<sup>+</sup> 0.5	<sup>+</sup> 0.7	<sup>+</sup> 0.9	<sup>+</sup> 0.9	<sup>+</sup> 0.9	<sup>+</sup> 1.1	<sup>+</sup> 1.4	<sup>+</sup> 1.7	<sup>+</sup> 1.9	<sup>+</sup> 2.1	<sup>+</sup> 2.0	+
	⁺0.2	<sup>+</sup> 0.4	<sup>+</sup> 0.5	<sup>+</sup> 0.6	<sup>+</sup> 0.6	<sup>+</sup> 0.6	<sup>+</sup> 0.5	<sup>+</sup> 0.6	<sup>+</sup> 0.8	<sup>+</sup> 1.1	<sup>+</sup> 1.6	<sup>+</sup> 2.2	<sup>+</sup> 2.7	<sup>+</sup> 3.0	<sup>+</sup> 3.1	<sup>+</sup> 2.8	<sup>+</sup> 1.3	<sup>+</sup> 0.5	<sup>+</sup> 0.5	<sup>+</sup> 0.6	<sup>+</sup> 0.5	<sup>+</sup> 0.4	<sup>+</sup> 0.3	<sup>+</sup> 0.3	<sup>+</sup> 0.3	<sup>+</sup> 0.4	<sup>+</sup> 0.4	<sup>+</sup> 0.5	<sup>+</sup> 0.6	<sup>+</sup> 0.8	<sup>+</sup> 0.9	<sup>+</sup> 1.1	<sup>+</sup> 1.2	<sup>+</sup> 1.3	<sup>+</sup> 1.3	+





FIXTURE TYPE	DESCRIPTION	MOUNTING	CCT / CRI	INPUT WATTS (W)	LUMEN OUTPUT	EFFICACY (LUMENS / WATTS)	BALLAST / TRANSFORMER / DRIVER	VOLTAGE	LENS / REFLECTOR / BEAM	HOUSING	TRIM / FLANGE / BAFFLE / FINISH	MANUFACTUR	
								INTER	lior lighting				
R1	4" DIAMETER MEDIUM DISTRIBUTION DOWNLIGHT LED LUMINAIRE	RECESSED	3000K 85 CRI	19	2000	102	0-10V DIMMING STANDARD	UNV	OPEN	STEEL	FLANGLESS TRIM	GOTHAM	
S1	4'-0" LINEAR LED LUMINAIRE	SURFACE	3000K 80 CRI	20	2000	100	0-10V DIMMING STANDARD	UNV	FROSTED	ALUMINUM	BY ARCHITECT	NULITE R	
S2A	5" DIAMETER LOW PROFILE LED LUMINAIRE	SURFACE	3000K 90 CRI	10	700	70	0-10V DIMMING DRIVER	AING DRIVER UNV DIFFUSED LENS ALUMINUM WHITE		WHITE	JUNO J!		
S2B	7" DIAMETER LOW PROFILE LED LUMINAIRE	SURFACE	3000K 90 CRI	13	13 1000 76 0-10V DIMMING DRIVER UNV DIFFUSED LENS ALUMINUM W		WHITE	JUNO JS					
S2C	11" DIAMETER LOW PROFILE LED LUMINAIRE	SURFACE	3000K 90 CRI	15	1300	86	0-10V DIMMING DRIVER	UNV	DIFFUSED LENS	ALUMINUM	WHITE	JUNO JS	
S2D	13" DIAMETER LOW PROFILE LED LUMINAIRE	SURFACE	3000K 90 CRI	20	1800	90	0-10V DIMMING DRIVER	UNV	DIFFUSED LENS	ALUMINUM	WHITE	JUNO JS	
S3	4' -0" LOW PROFILE WRAPAROUND LED LUMINAIRE	VRAPAROUND LED   SURFACE   3500K 80 CRI   53   5000   94   0-10V DIMMING DRIVER   UNV   POLYCARBONATE DIFFUSER   MET		METAL	STANDARD	STANDARD LITHONIA LIGH							
S4	6" ROUND VANDAL RESISTANT DOWNLIGHT LED LUMINAIRE	SURFACE	3000K 85 CRI	19	2000	88	0-10V DIMMING DRIVER	UNV	VANDAL RESISTANT LENS	STEEL	STANDARD	GOTHAM	
S5	2X4 TROFFER LED LUMINAIRE	SURFACE	3500K 80 CRI	55	5000	115	0-10V DIMMING DRIVER	UNV	SATIN WHITE LENS	ALUMINUM	STANDARD	LITHONIA LIGHT	
S6A	4'-0" LOW PROFILE LINEAR DIRECT LED LUMINAIRE	SURFACE	3500K 80 CRI	25	2896	115	0-10V DIMMING DRIVER	UNV	FROSTED LENS	ALUMINUM	BY ARCHITECT	NULITE REGOLO 4 I	
S6B	6'-0" LOW PROFILE LINEAR DIRECT LED LUMINAIRE	SURFACE	3500K 80 CRI	38	4344	114	0-10V DIMMING DRIVER	UNV	FROSTED LENS	ALUMINUM	BY ARCHITECT	NULITE REGOLO 4 I	
V1	2'-0" CYLINDER VANITY LED LUMINAIRE	WALL	3000K 90 CRI	18	1391	77	ELECTRONIC DRIVER	UNV	ACRYLIC DIFFUSER	BRUSHED NICKEL	BRUSHED NICKEL	LITHONIA CONTEMPORARY CYLIN MVOLT 30	
W1	CYLINDRICAL WALL SCONCE LED LUMINAIRE	WALL	3000K 90 CRI	30	1750	35	0-10V DIMMING DRIVER	UNV	CLEAR LENS	ALUMINUM	BY ARCHITECT	WAC LGHTING TUBE SERIES	
								EXTER	RIOR LIGHTING				
01A	SINGLE HEAD P4 OPTICS TYPE III DISTRIBUTION AREA LED LUMINAIRE	15'-0" POLE	3000K 80 CRI	125	13457	108	0-10V DIMMING DRIVER	UNV	ACRYLIC DIFFUSER	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING D SERIES - DS TBL	
O1B	DOUBLE HEAD P4 OPTICS TYPE III DISTRIBUTION AREA LED LUMINAIRE	15'-0" POLE	3000K 80 CRI	125	13457	108	0-10V DIMMING DRIVER	UNV	ACRYLIC DIFFUSER	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING D SERIES - DS TBL	
02	TYPE II DISTRIBUTION AREA LED LUMINAIRE	10'-0" POLE	3000K 80 CRI	151	8165	54	0-10V DIMMING DRIVER	UNV	FLAT GLASS LENS	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING MRP LED	

	S A 111 SW Portlar S	A   Z   A   N     B   R   O   P     Fifth Ave, Ste 3210   A   A     nd, Oregon 97204   Tel   503.416.2400     Fax   206.267.1701   AZAN# 646-22028		OKILAND     BEND       21 SW Morrison St.     721 SW Industrial       uite 950     Suite 130       0R 97205     0R 97702       03.595.0270     541.330.6506	
			ects		
ER / CATALOG #	NOTES		archite	509.252.5080	
EVO SERIES	SLOPED CEILING ADAPTER: SCA4 (ORDER AS SEPARATE CATALOG		LRB	<b>4COINA</b> 0 Pacific Ave te 700 .98402 .627.5599	
	NUMBER)		6	125 125 125 253 253	1.
(T-R SERIES			6	OF NC	<i>,</i>
3F SERIES					
SF SERIES			Stam		
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			sions escription		
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NG FML4W SERIES		_	DRAM		
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			SHEI	MADRA	
IDER VANITY SERIES - FMVCCL 24IN IK 90CRI BN			RAS	SITY OF	0%0
- WS-W2605-3000K 30W 800 TBD			MAD	0	6
X1 LED P4 30K T3M MVOLT RPA DMG O TBD	PROVIDE PHOTOCELL	-			
X1 LED P4 30K T3M MVOLT RPA DMG	PROVIDE PHOTOCELL				
			LLI		000
0 42C 1000 30K SR2 MVOLT TBD	PROVIDE PHOTOCELL		DUL	Author	021062
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### SEQUENCE OF OPERATIONS CONTROLS MATRIX

Applicable Code		Notes				••	Douglas	•				1
2019 OEESC							Enlighted					1
							Cooper					1
					Car				Vaa	Vec	No	Net
					Con	Eactory ror	tart up requi	rea?	Yes	Yes	NO	NO
						Factory rep	presentative		X	X		
						Emergend	cy Strategy			No	otes	
						Inve	erter					
SPACE TYPE	NDALONE SYSTEM	WORKED SYSTEM	: VOLTAGE SWITCHING	/ VOLTAGE SWITCHING	OFF SWITCH	MING SWITCH	VE SWITCH	SWITCH	UPANCY SENSOR ON TO 50%	UPANCY SENSOR ON TO 100%	VUAL ON TO 100%	
	ST/	N N	LIN	ΓŎ	N N N N N N N N N N N N N N N N N N N				Ö	Ő	W	
VESTIBULE		x		x							<u> </u>	<b>)</b>
HALLS		X		X						x	+	<u> </u>
LAUNDRY		X		x							+	×
RESTROOM 103	X			X	x						1	
RESTROOM AND SHOWER ROOMS		X		X	X						1	X
RESTROOM 132 AND 106	X			X	X						1	X
KITCHEN		X		X	X						1	X
CLOSET 111	X			X						Х	1	1
COMMUNITY ROOM		x		X	1	x					1	×
RECEPTION		x		X	1	X					1	
OFFICE		x		X		X					1	X
SLEEPING 108	x			X	x						x	; 
	X			X	X						X	1
	1			<u> </u>	1		+			v	<del> </del>	
JANITOR	X			X						X		

1.) OR APPROVED EQUAL.

2.) CONFIRM TIMECLOCK SETPOINTS WITH OWNER.

3.) 20 MINUTE TIMEOUT FOR ALL OCCUPANCY SENSORS.

4.) OCCUPANCY SENSOR IN RESTROOM TO BE 100% OUTPUT AUTO-ON WITH 20 MINUTE TIMOUT TO OFF.

5.) OCCUPANCY SENSOR IN STAIRWELL TO BE 100% OUTPUT AUTO-ON WITH 20 MINUTE TIMOUT TO 50% OUTPUT.

r								
	LIGHTING CONTROL STATIONS							
CONTROL STATION	ZONES	BOLLON						
DESIGNATION	CONTROLLED	NUMBER	FUNCTION	LABEL	NOTES			
\$OS	ALL	1	ALL ON	ON	4			
		2	ALL OFF	OFF	1			
\$LV#	ALL	1	ALL ON	٨				
	After hours network lighting overide - 2 hours only	2	ALL OFF	V				
\$LVA	ALL	1	ALL ON	ON	1			
		2	ALL OFF	OFF	I			
\$LVB	ALL	1	ALL ON/HOLD DIM UP	ON	1			
		2	ALL OFF/HOLD DIM DOWN	OFF	I			
GENERAL NOTES:								

1.) OCCUPANCY SENSOR AUTO-ON TO 50%, 20 MINUTE VACANCY TIMEOUT.

otes							
VACANCY SENSOR OFF	TIMECLOCK ON	TIMECLOCK OFF	PHOTOCONTROL SWITCHING	PHOTOCONTROL DAYLIGHT HARVESTING	TUNABLE TECHNOLOGY	NOTES	
X I		X					
x		-					
X X							
x							
x							
x				X			
x							
X							



GROUP

SAZAN# 646-22028



8/17/2022 3:35:25 PM







# 111 SW Fifth Ave, Ste 3210 Portland, Oregon 97204



SAZAN# 646-22028

### SHEET NOTES

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2H1-51 ⊢ →

2H1-51

- A. COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL SHEETS AND ACTUAL FIELD CONDITIONS.
- B. REFER TO ELECTRICAL EQUIPMENT SCHEDULES ON SHEET E2.00 FOR ADDITIONAL ELECTRICAL AND HVAC EQUIPMENT CONNECTION INFORMATION.
- C. SEE SHEET E0.00 FOR GENERAL NOTES.

### FLAG NOTES

- 1. PROVIDE QUAD RECEPTACLE FLOOR BOX. BASIS OF DESIGN: LEGRAND WIREMOLD RESOURCE RFBA SERIES FLOOR BOX OR APPROVED EQUAL.
- PROVIDE (1) 2" CONDUIT STUB-UP FROM PANEL 2H1 TO FUTURE PV SYSTEM INVERTER LOCATION. CAP AND SEAL EXTERIOR STUB-UP.
- 3. PROVIDE (1) 2" CONDUIT STUB-UP FROM FUTURE PV SYSTEM INVERTER LOCATION TO ROOF. CAP AND SEAL CONDUIT AT BOTH ENDS.
- 4. PROVIDE 2.2KVA EMERGENCY LIGHTING INVERTER. BASIS OF DESIGN MYERS ILLUMINATOR EM SERIES.



BLRB ARCHITECTS, P.S.





### 111 SW Fifth Ave, Ste 3210 Portland, Oregon 97204



## SHEET NOTES

- A. COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL
- DEVICES WITH ARCHITECTURAL SHEETS AND ACTUAL FIELD CONDITIONS.
- B. SEE SHEET E0.00 FOR STRUCTURED CABLING SYSTEM PATHWAY NOTES.C. PROVIDE PLASTIC BUSHING WITH PULL STRING FOR ALL CONDUIT ROUGH-INS.

### FLAG NOTES

- 1. PROVIDE WALL-MOUNTED CHATSWORTH 3'H X 2'W X 2'D CUBE-IT CABINET AS BASIS OF DESIGN.
- 2. PROVIDE ACCESS CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS AND DOORS WITH OWNER.
- 3. PROVIDE INTRUSION DETECTION SYSTEM. COORDINATE EXACT REQUIREMENTS AND DOORS WITH OWNER.
- PROVIDE 4S BACK BOX AND 3/4" CONDUIT PATHWAY FOR IP VIDEO SURVEILLANCE SYSTEM DEVICE. COORDINATE EXACT REQUIREMENTS AND DOORS WITH OWNER.
- 5. APPROXIMATE LOCATION OF CEILING-MOUNTED WAP (DEVICE, BRACKET PROVIDED AND INSTALLED BY OTHERS). PROVIDE CABLING PATHWAY BACK TO MDF.
- 6. PROVIDE 1" CONDUIT WITH 4S BACKBOX FROM ATTIC SPACE DOWN TO DATA OUTLET.
- 7. PROVIDE 2-1/2" CONDUIT FROM FIBER DISTRIBUTION CABINET TO MDF CABINET.
- PROVIDE 1" CONDUIT WITH 4S BACKBOX FROM ATTIC SPACE DOWN TO TWO-COMMUNICATION SYSTEM OUTLET. BASIS OF DESIGN: JERON SPECTRUM 480 DIGITAL INTERCOM SYSTEM. A NETWORKED PUSH-TO-CALL STATION FROM DORM BEDS TO MONITORED CONSOL AT OFFICE BEDROOM.
- PROVIDE 12"X2"X1/4" TELECOM BACKBOARD GROUND BAR. #6 GREEN/YELLOW TRACER BONDING CONDUCTOR TO CONDUITS, EQUIPMENT, AND CABINET. COORDINATE WITH OWNER.



	LOCATION: FED FROM: <u>CLOSET 111</u> GROUNDING: <u>EQUIPMENT GROUND BUS</u>							VOLTA TY MOUNTI SKIF A.I.C. RATII	NGE: <u>12</u> (PE: <u>B(</u> NG: <u>S(</u> RTS: <u>N(</u> NG:	<u>20/240 1-PH</u> DLT-ON JRFACE DNE	I, 3-WIF	RE	
						60 M	0 A CB						
C K T	ITEM	N O T	A M P s	P O L		٨		P	P O L	A M P S	N O T	ITEM	(
# 1	F-02	E	20 A	1	1469 VA	A 836 VA			<b></b>	15 A	E	F-01	
3	HP-01		30 A	2			1404 VA	2746 VA	2	60 A		HP-02	
5					1404 VA	2746 VA	400.1/4	044.144					
/ 0	EF-01		20 A	1	750 \/A	6/1 \/A	100 VA	641 VA	2	15 A		ERV-01	
11					130 VA	0417A	750 VA	1125 VA	2	20 A		EH-02	
13	WH-1		20 A	1	1800 VA	1125 VA						-	1
15	RCPT - REFRIGERATOR KITCHEN 112		20 A	1	(00)//	(00)/4	600 VA	600 VA	1	20 A		RCPT - REFRIGERATOR KITCHEN 112	1
1/	RCP1 - FREEZER KITCHEN 112 RCPT - GARRAGE DISPOSAL KITCHEN 112		20 A	1	180 VA	180 VA	1500 \/A	800 \/A	1	20 A			<b>1</b>
21	RCPT - GANDAGE DISPOSAL KITCHEN 112		20 A	1	300 VA	180 VA	1300 VA	000 VA	1	20 A		RCPT - VENT HOOD KITCHEN 112	
23	RCPT - ABOVE COUNTER KITCHEN 112		20 A	1			540 VA	540 VA	1	20 A		RCPT - GARBAGE DISPOSAL KITCHEN 112	2
25	FSDs		20 A	1	200 VA	540 VA			1	20 A		RCPT - KITCHEN 112	2
27	RCPT - DRYER LAUNDRY 102		30 A	2	2400.1/4	E40.)/A	2400 VA	1200 VA	1	20 A		RCPT - WASHER LAUNDRY 102	$-\frac{2}{2}$
 	 RCPT - FLOOR BOX COMMUNITY ROOM-1 110-1		 20 A		2400 VA	540 VA	1080 VA	1080 VA	1	20 A 20 A	1	RCPT - ELOOR BOX COMMUNITY ROOM-1 110-1	
33	RCPT - COMMUNITY ROOM-1 110-1	1	20 A	1	1080 VA	1080 VA	1000 VA	1000 VA	1	20 A	1	RCPT - COMMUNITY ROOM-1 110-1	
35	RCPT - EWC COMMUNITY ROOM-1 110-1		20 A	1			400 VA	540 VA	1	20 A	1	RCPT - TV COMMUNITY ROOM-1 110-1	:
37	RCPT - RECEPTION 105	1	20 A	1	900 VA	300 VA	000.1/4	000.1/4	1	20 A			?
39	ACCESS CONTROL CABINET		20 A	1	720 \/A	1260 \/A	300 VA	300 VA	1	20 A	1		
43	RCPT - GECLIRESTROOMS, CUST CLOSET		20 A	1	720 VA	1200 VA	1260 VA	1080 VA	1	20 A	1	RCPT - OFFICE 107	
45	RCPT - HALL, VESTIBULE	1	20 A	1	540 VA	1500 VA			1	20 A		RCPT - ATTIC MDF RACK	1
47	RCPT - GFCI ENTRYWAY		20 A	1			540 VA	1440 VA	1	20 A	1	RCPT - MEN'S DORM 125	
49	RCPT - MEN'S DORM 125	1	20 A	1	1440 VA	1260 VA	4000.1/4	700.1/4	1	20 A	1	RCPT - WOMEN'S DORM 136	5
51	RCPT - WOMEN'S DORM 136	1	20 A	1	715 \/A	690 \/A	1260 VA	720 VA	1	20 A	1		
55	LIGHTING - EXTERIOR		20 A	1	115 VA	030 VA	370 VA	800 VA	1	20 A		LIGHTING - EXTERIOR	
57	INVERTER		20 A	1	1243 VA	0 VA			1	20 A		SPARE	Ę
59	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	6
61	SPARE		20 A	1	0 VA	0 VA	0.1/0	0.1/0	1	20 A		SPARE	6
65	SPARE SPARE		20 A	1	Ο \/Δ	0.\/A	U VA	UVA	1	20 A		SPARE SPARE	
67	SPARE		20 A	1	0 17	0 17	0 VA	0 VA	1	20 A		SPARE	F
69	SPARE		20 A	1	0 VA	0 VA			1	20 A		SPARE	7
71	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	7
			Tota Tota	al Load: I Amps:	2798 23	39 VA 3 A	2608 21	57 VA 1 <b>7 A</b>					
Load (	Classification		Connec	ted Loa	d	Demand Fac	tor	Estimated D	emand			Panel Totals	
Equipn	nent		90			100.00%		900 V	A				
Heatin	٦		1210	00 VA		100.00%		12100	νA /Δ			Total Conn. L0ad: 04040 VA	
Lightin			200	ο VA 8 \/Δ		100.00%		0000 V	Λ /Δ		Total Est. Demand: 44161 VA		
Recent	acle		316	80 VA		65 78%		20840 \	/A		т	Total Est. Demand Current: 184 A	
			010			00.1070		20070	.,.		•		

<b>GROUNDING KEY NOTES</b>

- (1) '2H1': FACTORY PROVIDED MAIN BONDING JUMPER. (2) '2H1': #1/0 CU SUPPLY SIDE EQUIPMENT BONDING JUMPER. 3 CONCRETE ENCASED ELECTRODE "UFER". SIZE PER DETAIL #4/E7.00
- 4 12"X2"X1/4" TELECOM BACKBOARD GROUND BAR. 5 METAL PIPING.
- 6 5/8" Ø 10'L CU CLAD STEEL GROUND ROD. PROVIDE ADDITIONAL GROUND ROD AS REQUIRED PER NEC 250 53(A)(2) JE GROUND GROUND ROD AS REQUIRED PER NEC 250.53(A)(2) IF GROUND RESISTANCE TEST EXCEEDS 25 OHMS.
- (7) TELECOM GROUNDING CONDUCTOR, SIZE PER GROUND BAR DETAIL 5/E7.00.
- 8 BUILDING STEEL



## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SCHEDULE NOTES:

1) NEMA-3R FUSED DISCONNECT SWITCH.

3) PROVIDE MOTOR-RATED SWITCH AS DISCONNECT.

2) PROVIDE MOTOR-RATED SWITCH, WITH WP COVER, AS DISCONNECT.

4) EXHAUST FAN SHARES CIRCUIT WITH OTHER EXHAUST FANS.

5) WATER HEATER SHARES CIRCUIT WITH OTHER WATER HEATER.

ABBREVIATION: FLA: FULL LOAD AMPERES HP: HORSEPOWER

KVA: KILOVOLT-AMPERES KW: KILOWATTS

MCA: MINIMUM CIRCUIT AMPACITY MOCP: MAXIMUM OVERCURRENT PROTECTIVE DEVICE

OFOI: OWNER-FURNISHED, OWNER-INSTALLED OFCI: OWNER-FURNISHED, CONTRACTOR-INSTALLED

W: WATTS WP: WEATHERPROOF

						VA:	VUL I-AIVIPE	283					
NO.	EQUIPMENT DESCRIPTION	LOCATION	VA	KVA	MCA	MOCP	VOLTAGE	E		CONDUIT	WIRE SIZE	DISC/FUSE/POLES	NOTES
								I	PHASES	SIZE			
EF-1	EXHAUST FAN	ATTIC	100	0.1		20 A	120	1		3/4"	2#12, 1#12 GND	30/30/2	
EH-1	ELECTRIC HEATER	RESTROOM 103	1500	1.5		20 A	208	1		3/4"	2#12, 1#12 GND	30/30/2	
EH-2	ELECTRIC HEATER	VESTIBULE 101	2250	2.3		20 A	208	1		3/4"	2#12, 1#12 GND	30/30/2	
ERV-1	ENERGY RECOVERY	ATTIC	1282	1.3	7.7	15 A	208	1		3/4"	2#12, 1#12 GND	30/15/2	
	VENTILATOR												
F-01	CONDENSING FURNACE	ATTIC	836	0.8	8.7	15 A	120	1		3/4"	2#12, 1#12 GND	30/15/2	
F-02	CONDENSING FURNACE	ATTIC	1469	1.5	15.3	20 A	120	1		3/4"	2#12, 1#12 GND	30/20/2	
HP-1	HEAT PUMP	OUTDOOR	2808	2.8		30 A	208	1		3/4"	2#10, 1#10 GND	30/30/3	
HP-2	HEAT PUMP	OUTDOOR	5491	5.5		60 A	208	1		3/4"	2#4, 1#10 GND	60/60/3	







#### SCHEDULE GENERAL NOTES

A) DISCONNECTS ARE SHOWN AS FRAME RATING / FUSE SIZE. B) PROVIDE DUCT SMOKE DETECTORS FOR ALL HVAC UNITS SUPPLYING 2,000 CFM OR MORE. COORDINATE WITH FIRE ALARM CONTRACTOR. C) ALL 120V, 15A AND 20A RECEPTACLES AND/OR EQUIPMENT CIRCUITS SHALL BE GFCI PROTECTED PER NOTE 2, UNLESS NOTED OTERWISE/



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SAZAN# 646-22028



BLRB ARCHITECTS, P.S.

### SHEET NOTES

- A. COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL SHEETS AND ACTUAL FIELD CONDITIONS.
- B. SEE SHEET E0.00 FOR GENERAL NOTES.
- C. ALL ITEMS SHOWN ON ONE-LINE DIAGRAM SHALL BE CONSIDERED NEW UON.
- D. REFER TO SHEETS E1.01 AND E4.01 FOR MORE INFORMATION ON LAYOUT.
- E. PACIFIC POWER WILL PROVIDE AND INSTALL PRIMARY/SECONDARY TRANSFORMER CONDUCTORS AND WILL PROVIDE AND MOUNT TRANSFORMER. PACIFIC POWER WILL PROVIDE CTS, METER INCLUDING WIRING, AND PROVIDE AND PERFORM TRANSFORMER TERMINATIONS AND SECONDARIES AT CT.

FLAG NOTES

- TRENCH AND PROVIDE (1) 4" CONDUIT WITH PULL STRING FROM UTILITY POLE TO TRANSFORMER VAULT.
- 2. TRENCH AND PROVIDE (2) 4" CONDUITS WITH PULL STRINGS FROM TRANSFORMER VAULT TO CT ENCLOSURE.
- PROVIDE CONCRETE TRANSFORMER VAULT AND COVER, OLDCASTLE P/N: 575-TRANS-PCORP 7992600.
- 4. PROVIDE 1" (MIN) CONDUIT WITH PULL STRING AND EUSERC 305, DIRECT CONNECT, NEMÁ 3R METER ENCLOSURE.
- 5. PROVIDE EUSERC 316/317, 600A, NEMA 3R CT ENCLOSURE.





### DETAIL NOTES

- 1. BUSBAR AND ALL BONDING COMPONENTS SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, ANSI/TIA 607-C STANDARDS, LOCAL CODES, OR AHJ. WHERE CONFLICTS OCCUR, THE MORE RESTRICTIVE STANDARD WILL TAKE PRECEDENT
- 2. HOLE PATTERNS SHALL SUPPORT LISTED LUGS AND HARDWARE
- 3. BUSBAR SHALL BE ELECTROTIN PLATED COPPER WITH A MINIMUM 95% CONDUCTIVITY AND HAVE AN ANTI-OXIDANT APPLIED BEFORE ATTACHING ANY BONDING COMPONENTS
- 4. PRIMARY BUSBAR SHOULD BE A MINIMUM 4" HIGH AND SECONDARY BUSBARS SHALL BE A MINIMUM OF 2" HIGH. REFER TO SPECIFICATIONS FOR SPECIFIC LENGTHS

TYPICAL CONDUCTOR SIZE						
LINEAR LENGTH (FT)	SIZE (AWG)					
< 13	6					
14 - 20	4					
21 - 26	3					
27 - 33	2					
34 - 41	1					
42 - 52	1/0					
53 - 66	2/0					
67 - 84	3/0					
14 - 20	4/0					
21 - 26	250 kcmil					
27 - 33	300 kcmil					
34 - 41	350 kcmil					
42 - 52	500 kcmil					
53 - 66	600 kcmil					
67 - 84	750 kcmil					

# 5 TELECOMMUNICATIONS BONDING BUSBAR DETAIL



	<b>City of Madras</b> <b>Burden of Proof Narrative</b> Emergency Shelter – City of Madras
APPLICANT/ OWNER:	City of Madras 125 SW E Street Madras, OR 97741
ARCHITECT:	BLRB Architects P.S. Eric Nielsen 721 SW Industrial Way, Suite 130 Bend, OR 97702
ENGINEER:	HWA Grant Hardgrave, PE 62930 O.B. Riley Road, Suite 100 Bend OR 97703
PLANNER:	Blackmore Planning and Development Services, LLC Greg Blackmore, Principal Planner 19454 Sunshine Way Bend, OR 97702
LOCATION:	The site is located on NW 4 <sup>th</sup> Street at the wester terminus of Oak Street. The address is 61 NW Oak Street, which is identified as Tax Lot 502 on the Jefferson County Tax Assessor's Map 11-13-02 DD.
ZONING:	Corridor Commercial (C-1)
REQUEST:	The applicant is requesting 3,760 square foot, 1-story, emergency shelter.

#### I. PROCEDURES, STANDARDS, AND APPROVAL CRITERIA

- City of Madras Emergency Shelter Super Siting Application https://www.ci.madras.or.us/commdev/page/emergency-shelter-supersiting-application
- Oregon House Bill 2006

#### II. EXHIBITS

• Architectural Plan Set

#### **III. BASIC FACTS**

#### 1. **PROPERTY LOCATION**:

The site is located on NW 4<sup>th</sup> Street at the wester terminus of Oak Street. The address is 61 NW Oak Street, which is identified as Tax Lot 502 on the Jefferson County Tax Assessor's Map 11-13-02 DD.

#### 2. ZONING AND COMPREHENSIVE PLAN DESIGNATION:

The property is designated Corridor Commercial (C-1) on the City of Madras Urban Area Comprehensive Plan and Zoning Map.

#### 3. SITE DESCRIPTION AND SURROUNDING USES:

The subject property is situated upon varied topography, which slopes to the east (toward NW 4<sup>th</sup> Street). To the north, west and south is undeveloped land. To the east is commercially zoned land that is developed with a Sonic Drive-In restaurant.



#### 4. **PROPOSAL**:

The applicant is requesting 3,760 square foot, 1-story, emergency shelter.

#### IV. CONFORMANCE WITH CITY OF MADRAS APPROVAL CRITERIA

#### **Application Requirements**

The Emergency Shelter Super Siting application submitted to the City of Madras <u>must</u> demonstrate the following:

- The Emergency Shelter:
  - Includes sleeping and restroom facilities
  - Will comply with applicable building codes
  - Is located within the City's urban growth boundary
  - Will not result in a new building that is sited within an area designated under a statewide land use planning goal relating to natural disasters and hazards (e.g. flood plains or mapped environmental health hazards) unless the development complies with regulations directly related to the hazard
  - Has adequate transportation access to medical and commercial services
  - Will not pose any unreasonable risk to public health or safety

**Applicant Response:** As documented on the Plan Set, the design includes sleeping facilities. Also, the submittal packet includes a Building Code Analysis, which documents conformance with all applicable building codes, and as a standard procedure prior to construction, the applicant will be required to submit and be issued a building permit from the authorizing jurisdiction, which will be based upon a detailed assessment of building code compliance. Regarding location, the property is situated within the Madras Urban Growth Boundary (UGB) and it is not in a natural disaster area. Regarding access, the emergency shelter will have access to NW 4<sup>th</sup> Street, which is a public street and is connected to the City-wide transportation system that connects to medical and commercial services. Lastly, given that the proposal is an allowed use that will be built to all building code standards and that conforms to all local rules and regulations, it will not pose a risk to public health or safety.

Overall, the proposed development conforms to these requirements.

- The Emergency Shelter <u>must be operated by:</u>
  - A local government, or
  - A religious corporation,
  - A public benefit corporation whose charitable purpose includes the support of homeless individuals and that has been recognized as exempt from income tax under section 501(a) of the Internal Revenue Code on or before January 1, 2017, or
  - A nonprofit corporation partnering with any of those entities.

**Applicant Response:** The property is owned by the City of Madras, a local government, and the shelter will be operated by Jefferson County Faith Based Network. The City plans to ensure that the operator will continually be one of the entity types established in this section.

- Additionally, an Emergency Shelter <u>may provide on-site and at no cost:</u>
  - Showering and bathing facilities
  - Personal property storage
  - Laundry
  - Food service
  - Recreation areas for children and pets
  - Case management services, or
  - Any other services incidental to the shelter
- An Emergency Shelter <u>may</u> include youth shelters, veterans' shelters, winter or warming shelters, day shelters and family violence shelter homes.
- An Emergency Shelter <u>may</u> provide additional transitional housing services at a fee of not more than \$300/month.

**Applicant Response:** The provisions of these sections are permissive, but not required or mandatory.

Applicants have until June 30, 2022 to submit their Emergency Shelter Super Siting application. Applications received after June 30, 2022 are not eligible for the Emergency Shelter Super Siting process.

State law does not set a deadline for the City to make a decision on an Emergency Shelter Super Siting application.

**Applicant Response:** The application is being submitted prior to June 30, 2022, which conforms to the requirements of this section. While state law does not set a deadline on how long a City has to make a decision, the applicant anticipates that a timely decision will be made.

#### What is the public engagement process for super siting applications?

This is a special application process mandated by state law (<u>HB 2006</u>). A decision on an Emergency Shelter Super Siting application is not a land use decision, so the Emergency Shelter Super Siting process does not follow the typical land use process. State law does not require mailed notice of an Emergency Shelter Super Siting application to adjacent or nearby property owners and residents nor does it require a public hearing or other solicitation of public comment.

## Who is the decision maker for the City of Madras' Emergency Shelter Super Siting Applications?

The Community Development Director will make the decision on an Emergency Shelter Super Siting application based on the requirements in HB 2006.

#### Can an Emergency Shelter Super Siting decision be appealed?

Yes, an Emergency Shelter Super Siting decision may be appealed to the Jefferson County Circuit Court within 60 days of the date of the decision utilizing the writ of review process in Chapter 34 of the Oregon Revised Statutes.

**Applicant Response:** These provisions are informational. The applicant anticipates that the decision will be made according to these provisions.

#### V. CONFORMANCE WITH HB 2006

SECTION 3. (1) A local government shall approve an application for the development or use of land for an emergency shelter, as defined in section 2 of this 2021 Act, on any property, notwithstanding ORS chapter 195, 197, 197A, 215 or 227 or any statewide plan, rule of the Land Conservation and Development Commission or local land use regulation, zoning ordinance, regional framework plan, functional plan or comprehensive plan, if the emergency shelter:

(a) Includes sleeping and restroom facilities for clients;

(b) Will comply with applicable building codes;

(c) Is located inside an urban growth boundary or in an area zoned for rural residential use as defined in ORS 215.501;

(d) Will not result in the development of a new building that is sited within an area designated under a statewide planning goal relating to natural disasters and hazards, including flood plains or mapped environmental health hazards, unless the development com- plies with regulations directly related to the hazard; (e) Has adequate transportation access to commercial and medical services; and (f) Will not pose any unreasonable risk to public health or safety.

(2) An emergency shelter allowed under this section must be operated by:

(a) A local government as defined in ORS 174.116;

(b) An organization with at least two years' experience operating an emergency shelter using best practices that is:

(A) A local housing authority as defined in ORS 456.375;

(B) A religious corporation as defined in ORS 65.001; or

(C) A public benefit corporation, as defined in ORS 65.001, whose charitable purpose includes the support of homeless individuals, that has been recognized as exempt from income tax under section 501(a) of the Internal Revenue Code on or before January 1, 2018; or

(c) A nonprofit corporation partnering with any other entity described in this subsection.

(3) An emergency shelter approved under this section:

(a) May provide on-site for its clients and at no cost to the clients:

- (A) Showering or bathing;
- (B) Storage for personal property;
- (C) Laundry facilities;
- (D) Service of food prepared on-site or off-site;
- (E) Recreation areas for children and pets;
- (F) Case management services for housing, financial, vocational,
- educational or physical or behavioral health care services; or
- (G) Any other services incidental to shelter.

(b) May include youth shelters, winter or warming shelters, day shelters and family violence shelter homes as defined in ORS 409.290.

(4) An emergency shelter approved under this section may also provide additional services not described in subsection (3) of this section to individuals who are transitioning from unsheltered homeless status. An organization providing services under this subsection may charge a fee of no more than \$300 per month per client and only to clients who are financially able to pay the fee and who request the services.

**Applicant Response:** The City of Madras Approval Criteria are nearly identical to the HB 2006 Criteria of this section. The above noted finding (addressing the City of Madras Approval Criteria) address all of these criteria.

#### VI. SUMMARY AND CONCLUSION

The preceding sections document that the proposal conforms to the applicable Standards and Criteria. Because the proposal conforms to all applicable criteria and standards, the applicant respectfully requests that the City approve the Emergency Shelter application as proposed.

#### **RESOLUTION NO. 03-2021**

#### A RESOLUTION AUTHORIZING THE CITY OF MADRAS TO APPLY FOR THE COMMUNITY DEVELOPMENT BLOCK GRANT FROM BUSINESS OREGON FOR DESIGN AND CONSTRUCTION OF THE "MADRAS HOMELESS SERVICE CENTER PROJECT" IN THE AMOUNT OF \$1,800,000.00

**WHEREAS,** the Community Development Block Grant is currently accepting applications; and

**WHEREAS,** the City of Madras desires to participate in this grant program to the greatest extent possible for design, land acquisition, grant administration, and construction services to construct a homeless services center within City limits; and

**WHEREAS,** the proposed facility will be operated by the Madras Faith-Based Network and will benefit both City and County residents; and

**WHEREAS,** the estimated project cost to include design, land acquisition, grant administration, and construction of the facility is \$1,800,000.00; and

**WHEREAS**, the City is proposing the project be financed with the Community Development Block Grant at \$1,500,000.00 and City funds at \$300,000.00;

**NOW, THEREFORE, BE IT HEREBY RESOLVED** by the Common Council of the City of Madras as follows:

**SECTION 1**: The City of Madras supports the proposed project and is hereby authorized to apply for the Community Development Block Grant in the amount of \$1,800,000.00 for design, land acquisition, grant administration, and construction services to construct a homeless services center within City limits to serve City and County residents. The City of Madras will contribute \$300,000.00 towards the total project costs.

The City of Madras is hereby authorized to commit the funds and resources necessary to deliver the proposed design and construction of the Madras Homeless Service Center.

- **<u>SECTION 2</u>**: Mayor Richard Ladeby is hereby empowered to sign the resolution on the City's behalf.
- **SECTION 3:** This resolution shall become effective immediately upon its passage by the Council and execution by the Mayor.

**APPROVED AND ADOPTED** by the City Council of the City of Madras and signed by the Mayor this 13<sup>th</sup> day of April, 2021.

Ayes:	4
Nays:	0
Abstentions:	4
Absent:	1
Vacancies:	ł

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Richard Ladeby, Mayor

ATTEST:

Vattimo, City Recorder

