



## LIFE SAFETY/EXITING PLAN FIRST FLOOR - BUILDING 1

### LIFE SAFETY AND EXITING NOTES

- 🕂 EXIT TRAVEL PATH
- XXX<sup>I</sup> EXIT ACCESS TRAVEL DISTANCE (LEAST DISTANCE)
- (#) OCCUPANT LOAD FACTOR AT DOOR
- A EXIT SIGN
- General FIRE EXTINGUISHER PER IBC 906
- 1. MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE PER IBC TABLE 1006.2.1 S OCCUPANCY = 100' (WITHOUT SPRINKLER SYSTEM, OCCUPANT LOAD UNDER 30) B OCCUPANCY = 100' (WITHOUT SPRINKLER SYSTEM, OCCUPANT LOAD UNDER 30)
- 2. MAXIMUM EXIT ACCESS TRAVEL DISTANCE PER IBC TABLE 1017.2 S-1 OCCUPANCY = 200' (WITHOUT SPRINKLER SYSTEM) B OCCUPANCY = 200' (WITHOUT SPRINKLER SYSTEM)
- 3. EXIT SIGNS IBC SECTION 1013
- EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT PASSAGEWAY IS MORE THAN 100' OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT. PROVIDE ADDITIONAL EXIT SIGN AS MAY BE REQUIRED BY THE LOCAL JURISDICTION.
- 4. FIRE EXTINGUISHER IBC SECTION 906 FIRE EXTINGUISHER PLACEMENT MAXIMUM DISTANCE OF TRAVEL FOR CLASS A MODERATE FIRE HAZARD SHALL BE 75' AND SHALL BE RATED MIN 2-A. FIRE EXTINGUISHER PLACEMENT MAXIMUM DISTANCE OF TRAVEL FOR FLAMMABLE OR COMBUSTIBLE LIQUIDS MODERATE FIRE HAZARD SHALL BE 30' FOR TYPE 10-B OR 50' FOR TYPE 20-B. EXTINGUISHER SHALL BE PLACED IN CONSPICUOUS LOCATION FOR READY ACCESS AND INSTALLED ON HANGERS OR BRACKETS SUPPLIED IF NOT HOUSED IN CABINETS.





### **DESIGN CRITERIA - BUILDING 1**

2.75 ACRES

JURISDICTION: **REFERENCES:** 

CITY OF WENATCHEE CODE

2018 INTERNATIONAL BUILDING CODE 2018 WA STATE BLDG CODE AMENDMENTS CHAP. 51-50 WAC ICC/ANSI A117.1-2009 2018 INTERNATIONAL MECHANICAL CODE 2018 UNIFORM PLUMBING CODE 2018 INTERNATIONAL FIRE CODE INDUSTRIAL (I)

ZONING: SITE AREA:

BUILDING 1: CONSTRUCTION TYPE: OCCUPANCY GROUP: ACTUAL BUILDING AREA:

PERMITTED, REFERENCE BPC-21-055 V-B NON-SPRINKLERED B AND S-1 B OCCUPANCY = 1,600 SF S-1 OCCUPANCY = 4,000 SF (VEHICLE REPAIR GARAGE) TOTAL = 5,600 SF

TABLE 506.2 (ALLOWABLE): 9,000 SF (NON-SPRINKLERED)

### **CLIMATE DATA - BUILDING 1**

2018 WASHINGTON STATE ENERGY CODE: CLIMATE ZONE: COMPLIANCE METHOD: **ROOF INSULATION:** WALLS, ABOVE GRADE: SLAB ON GRADE: DOORS, NON-SWINGING: DOORS, SWINGING: WINDOWS (FIXED):

5B COMPONENT R-49 (ATTIC) R-21 R-10 FOR 24" BELOW R-4.75 U-0.37 MAX. NFRC U-VALUE = 0.38 (FIXED) MAX. NFRC U-VALUE =0.40 (OPERABLE) SHGC = 0.38 (SOUTH/EAST/WEST)SHGC = 0.51 (NORTH)

### **DESIGN CRITERIA - BUILDING 2**

INDUSTRIAL (I)

2.75 ACRES

JURISDICTION: **REFERENCES:** 

CITY OF WENATCHEE CODE 2018 INTERNATIONAL BUILDING CODE 2018 WA STATE BLDG CODE AMENDMENTS CHAP. 51-50 WAC ICC/ANSI A117.1-2009 2018 INTERNATIONAL MECHANICAL CODE 2018 UNIFORM PLUMBING CODE 2018 INTERNATIONAL FIRE CODE

ZONING: SITE AREA:

BUILDING 2: CONSTRUCTION TYPE: OCCUPANCY GROUP: ACTUAL BUILDING AREA:

PERMITTED, REFERENCE BPC-21-056 V-B NON-SPRINKLERED B AND S-1 B OCCUPANCY = 2,800 SF (1ST FLOOR)B OCCUPANCY = 800 SF (2ND FLOOR)S-1 OCCUPANCY = 3,000 SF TOTAL = 6,600 SFTABLE 506.2 (ALLOWABLE):9,000 SF (NON-SPRINKLERED, 1 STORY)

### CLIMATE DATA - BUILDING 2

2018 WASHINGTON STATE ENERGY CODE: CLIMATE ZONE:

COMPLIANCE METHOD: **ROOF INSULATION:** WALLS, ABOVE GRADE: SLAB ON GRADE: DOORS, NON-SWINGING: DOORS, SWINGING: WINDOWS (FIXED):

5B COMPONENT R-49 (ATTIC) R-21 R-10 FOR 24" BELOW R-4.75 U-0.37 MAX. NFRC U-VALUE =0.38 (FIXED) MAX. NFRC U-VALUE =0.40 (OPERABLE) SHGC = 0.38 (SOUTH/EAST/WEST)SHGC = 0.51 (NORTH)

## **DESIGN CRITERIA - BUILDING 3**

INDUSTRIAL (I)

JURISDICTION: **REFERENCES:** 

CITY OF WENATCHEE CODE 2021 INTERNATIONAL BUILDING CODE 2021 WA STATE BLDG CODE AMENDMENTS CHAP. 51-50 WAC 2017 ICC/ANSI HANDICAP ACCESSIBILITY 2021 INTERNATIONAL MECHANICAL CODE 2021 UNIFORM PLUMBING CODE 2021 INTERNATIONAL FIRE CODE

ZONING: SITE AREA:

BUILDING 3: CONSTRUCTION TYPE: OCCUPANCY GROUP: ACTUAL BUILDING AREA:

2.75 ACRES RISK CATEGORY IV (IBC TABLE 1604.5) V-B NON-SPRINKLERED B AND S-1 B OCCUPANCY = 1,992 SF (1ST FLOOR) B OCCUPANCY = 1,992 SF (2ND FLOOR) S-1 OCCUPANCY = 3,921 SF S-1 MEZZANINE = 780 SF (NOT INCLUDED IN TOTAL TOTAL = 7905 SF

**BUILDING AREA** TABLE 506.2 (ALLOWABLE): 9,000 SF (NON-SPRINKLERED, 1 STORY)

## **CLIMATE DATA - BUILDING 3**

2021 WASHINGTON STATE ENERGY CODE: CLIMATE ZONE: COMPLIANCE METHOD: **ROOF INSULATION:** WALLS, ABOVE GRADE: SLAB ON GRADE: DOORS, NON-SWINGING: DOORS, SWINGING: WINDOWS (FIXED):

5B COMPONENT R-49 (ATTIC) R-20 + R-3.8c.i. (INTERMEDIATE FRAMING) R-10 FOR 24" BELOW R-4.75 U-0.37 MAX. NFRC U-VALUE = 0.34 (FIXED) MAX. NFRC U-VALUE =0.36 (OPERABLE) SHGC = 0.38 (SOUTH/EAST/WEST)

## DESIGN CRITERIA - BUILDING 4 (BULL-PEN)

CITY OF WENATCHEE CODE

2021 INTERNATIONAL FIRE CODE

JURISDICTION: **REFERENCES:** 

ZONING:

SITE AREA: BUILDING 3: CONSTRUCTION TYPE: OCCUPANCY GROUP: ACTUAL BUILDING AREA:

INDUSTRIAL (I) 2.75 ACRES RISK CATEGORY IV (IBC TABLE 1604.5) V-B NON-SPRINKLERED S-1 S-1 OCCUPANCY = 1,848 SF COVERED S-1 OCCUPANCY = 1,050 SF UNCOVERED TOTAL = 2,898 SF

2021 INTERNATIONAL BUILDING CODE

2021 WA STATE BLDG CODE AMENDMENTS CHAP. 51-50 WAC

TABLE 506.2 (ALLOWABLE): 9,000 SF (NON-SPRINKLERED, 1 STORY)

## CLIMATE DATA - BUILDING 4 (BULL-PEN)

2021 WASHINGTON STATE ENERGY CODE: CLIMATE ZONE: COMPLIANCE METHOD: **ROOF INSULATION:** WALLS, ABOVE GRADE: SLAB ON GRADE: DOORS, NON-SWINGING: DOORS, SWINGING: WINDOWS (FIXED):

5B COMPONENT N/A N/A N/A N/A N/A N/A





BID SET Job: 2344 Date: 1/6/2025 .DWG ID — 2344 a002—.dwg 2344 a002×128—.dwg









## LIFE SAFETY/EXITING PLAN FIRST FLOOR - BUILDING 2 3/32"=1'-0"

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	<	$\rightarrow$ $\langle$	3	$\langle 2 \rangle$	
CY 150 SF/PP					
	· · ·	<b>──→</b>	STORAGE MEZZANIN S-1 OCCUPANCY 680 SQ. FT. / 300 SF/I 3 OCOUPANTS	NE	
	DISTANCES S TO THE BOT STAIRS, WHE ARE (2) DIREC EXITS PROVIE	HOWN ARE Tom of Re There Ctions to Ded, typ.			

LIFE SAFETY/EXITING PLAN FIRST FLOOR - BUILDING 3 3/32"=1'-0"







BID SET: Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a003-.dwg



Devright 2024 The DOH Associates





 
 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344 a101 2344 a101x360

A1.1

ABBRE	VIATI	on name	SIZE AND SPACING
	LAWN	GRASS (HYDROSEEDING)	
	KIN	KINNIKINNICK GROUNDCOVER	I GALLON, 24" O.C.TRIAN SPACING
000000000000000000000000000000000000000	СМ	CRUGHED ROCK	
	ARM	ACER RUBRUM (ARMSTRONG MAPLE)	1¾" CALIPER
	SVM	ACER RUBRUM (SUN VALLEY MAPLE)	1¾" CALIPER
	CNS	CUPRESSINA (COLUMNAR NORWAY SPRUCE)	6'-0 MINIMUM
	FLP	PYRUS CALLERYANA 'CHANTICLEER' (CLEVELAND FLOWERING PEAR)	1¾" CALIPER
	DMP	(DWARF MUGO CULTIVARS)	2 GALLON
	JNP	JUNIPERUA SCOPULORUM (SKYROCKET JUNIPER)	2 GALLON
	TOC	THUJA OCCIDENTALIS (FIRE CHIEF ARBORVITAE)	2 GALLON

- <u>PLANTINGS</u> 1. INSTALL WEED BARRIER UNDER 2" DEEP MEDIUM TEXTURED BARK MULCH IN ALL NEW PLANTING BEDS. EXCEPT, USE FINE BARK MULCH W/ NO FABRIC AT ANNUAL PLANTING BED.
- 2. EXCAVATE AND REMOVE EXISTING SOIL FOR NEW TREES AND SHRUBS 3 TIMES THE SIZE OF THE ROOT BALL/CONTAINER. PLANT USING 50% ON SITE SOIL AND 50% COMPOST.
- 3. FERTILIZE TREES AND PLANTINGS WITH 20-20-10 CONTROLLED RELEASE FERITILIZER 4. ROTOTILL SUBGRADE AT LANDSCAPE BEDS AND LAWN AND ADD 4" DEPTH ORGANIC AMENDMENT AND GENERAL AMENDMENT AND STABILIZATION FERTILIZERS. RAKE SMOOTH AND LEVEL W/
- ADDITIONAL COMPOST. 5. FILL ALL PLANTING BEDS TO WITHIN I' OF TOP OF DRIVES, CURBS/SIDEWALKS OR ADJACENT
- SURFACING.
- 6. APPLY 'SNAP-SHOT' PRE-EMERGENT TO ALL BEDS PRIOR TO PLACING WEED BARRIER AND BARK MULCH. 7. APPLY 'MY CORRHIZA ROOTS' ROOT LIQUID SOLUTION TO ALL PLANTING HOLES PER MANUFACTURER'S RECOMMENDATIONS.

IRRIGATION

- REFERENCE SPECIFICATION SECTION 32 80 10 FOR ADDITIONAL INFORMATION.
- IRRIGATION SYSTEM SHALL COVER <u>ALL</u> LANDSCAPING AREA AND PLANTINGS.
   IRRIGATION SYSTEM SHALL BE CONTRACTOR DESIGN. INSPECT SITE AND VERIFY EXISTING CONDITIONS
- AND DIMENSIONS PRIOR TO BIDDING AND CONSTRUCTION. 4. IRRIGATION SHALL BE CONTROLLED FROM KEYED LOCATIONS SHOWN ON THE PLANS. 5. PROVIDE NEW PIPES, VALVES AND IRRIGATION HEADS ACCORDING TO FIELD CONDITIONS AND PLANT
- LOCATIONS.
- 6. ALL VALVES WILL BE PLACED IN VALVE BOXES, LOCATED IN SHRUB BEDS, IN A MANNER WHICH FACILITATES ACCESS FOR MAINTENANCE.
- 1. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND NO OVERSPRAY ONTO BUILDINGS, WINDOWS OR PAVED AREAS.
- 8. ALL IRRIGATION WIRE TO BE IN CONDUIT, ALL IRRIGATION WATER LINES UNDER PAVED SURFACES TO
- BE IN CONDUIT.
- 9. INSTALL ALL SPRINKLER HEADS W/ HEAD TO HEAD COVERAGE 10. DRIP IRRIGATION HEADS TO BE PLACED AT EACH PLANT ACCORDING TO VOLUME
- NEEDED. 11. IRRIGATION SHALL BE ZONED AS REQUIRED FOR FULL COVERAGE AT AVAILABLE WATER PRESSURE.

STATMENT OF RESPONSIBILITIES AS THE OWNER OF THE SUBJECT PROPERTY, I HAVE REVIEWED THIS LANDSCAPE PLAN AND UNDERSTAND OUR RESPONSIBILITIES FOR THE LANDSCAPING INSTALLATION AND MAINTENANCE.

RON CRIDLEBAUGH OWNER









BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a102R 2344 A101x360-

A1.2





FLOOR PLAN - BUILDING 1 3/16"=1'-0"



- 101 COMPRESSOR ROOM/STORAGE102 UNISEX ADA RESTROOM
- 103OFFICE104VEHICLE REPAIR GARAGE
- 105 STORAGE106 UNISEX ADA RESTROOM



JZ OE DIDDS OHME GARI 425



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a201b1
 a244

 .2344
 a201b1
 a244
 a201b1x64









112 STORAGE113 STORAGE



Drwn: Chkd:

DE OHME GA 425







SECOND FLOOR PLAN - BUILDING 2







 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG
 ID
 2344
 a203b2

 .2344
 a203b2x64
 a203b2x64

106 STAIR201 OFFICE202 OFFICE203 OFFICE204 STORAGE205 HALL

A2.3B2





109 WORK AREA

110 UNISEX ADA RESTROOM 111 UNISEX RESTROOM 112 STORAGE



**JS**8801 ASHING. DEN ROA 1.1 DIDDS OHME GAR 425



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID a2344
 a204b3-a2344
 a204b3-a204b3x64

A2.4B3





SECOND FLOOR PLAN - BUILDING 3



ROOM SCHEDULE

201 OFFICE
202 OFFICE
203 OFFICE
204 HALL
205 OFFICE
206 HALL
207 BREAK ROOM
208 OFFICE
209 STORAGE
210 HALL
211 CONFERENCE ROOM
212 UNISEX ADA RESTROOM
213 MEZZANINE







 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID a2344
 a205b3-a2344
 a205b3x64

A2.5B3





0 2' 6'

6'

CLF-3 FULL HEIGHT CHAIN LINK
 FENCE (W/SLATS AT FENCE AND
 GATES) WITH:

 (1) 12'-Ø' G-2 SECURITY GATE
 (1) 3'x7' G-1 MAN GATE

## ROOM SCHEDULE

101 OPEN AREA - BULL PEN102 SECURE AREA - BULL PEN

# $\mathcal{O}$ JZ )E DLDDS OHME GARI 425



 
 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a206b4 2344
 a206b4 a206b4x64
 PRELIMINARY NOT FOR CONSTRUCTION



Drwn: Chkd:



- ROOF VENTILATION REQUIREMENTS 1. INSTALL A CLASS 1 OR 2 VAPOR RETARDER ON UNDERSIDE OF TRUSSES 2. RIDGE VENT SHALL ACCOUNT FOR AT LEAST 40% BUT NOT MORE THAN 50% OF REQUIRED VENTILATION AREA
- PROVIDE VENTED SOFFITS AT EAVES OF ALL PORTIONS OF ROOF.
   PROVIDE BAFFLES TO MAINTAIN A MINIMUM OF 2" CLEAR AIR SPACE BETWEEN ROOF
- SHEATHING AND ATTIC INSULATION
- 5. ROOF VENTILATION CALCULATIONS: ENCLOSED ATTIC AREA = 9,600 SF
  MINIMUM NET CLEAR AREA = 1/300 OF THE ENCLOSED ATTIC AREA
  REQUIRED NET FREE VENTILATION AREA = 5,642 SF/300 = 18.80 SF = 2,108.43 SQ. IN TOTAL: 1,355 SQ. IN. MAX REQUIRED AT RIDGE 1,355 SQ IN. MIN. REQUIRED AT SOFFIT/EAVES.
- MANUFACTURER.
- 3. SEE DETAILS I AND 2/A8.1 FOR PIPE/VENT THRU ROOF, TYP.

ROOF PLAN NOTES 1. ALL ROOF PENETRATIONS TO BE FLASHED PER ROOFING MANUFACTURER'S APPROVED DETAILS, COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR ANY REQUIRED PENETRATIONS.

2. PROVIDE ROOFING EXPANSION JOINTS AS RECOMMENDED/REQUIRED BY THE ROOFING

4. DETAILS NOT SPECIFICALLY SHOWN SHALL CONFORM TOT HE MANUFACTURER'S STANDARD DETAILS, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER'S REPRESENTATIVE.



ROOF PLAN - BUILDING 1







BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a207b1





ROOF VENTILATION REQUIREMENTS

- 1. INSTALL A CLASS I OR 2 VAPOR RETARDER ON UNDERSIDE OF TRUSSES 2. RIDGE VENT SHALL ACCOUNT FOR AT LEAST 40% BUT NOT MORE THAN 50% OF REQUIRED VENTILATION AREA
- PROVIDE VENTED SOFFITS AT EAVES OF ALL PORTIONS OF ROOF.
   PROVIDE BAFFLES TO MAINTAIN A MINIMUM OF 2" CLEAR AIR SPACE BETWEEN ROOF
- SHEATHING AND ATTIC INSULATION
- 5. ROOF VENTILATION CALCULATIONS: ENCLOSED ATTIC AREA = 9,600 SF
  MINIMUM NET CLEAR AREA = 1/300 OF THE ENCLOSED ATTIC AREA
  REQUIRED NET FREE VENTILATION AREA = 5,843 SF/300 = 19.41 SF = 2,804.43 SQ. IN TOTAL: 1,403 SQ. IN. MAX REQUIRED AT RIDGE 1,403 SQ IN. MIN. REQUIRED AT SOFFIT/EAVES.
- MANUFACTURER.

ROOF PLAN NOTES 1. ALL ROOF PENETRATIONS TO BE FLASHED PER ROOFING MANUFACTURER'S APPROVED DETAILS, COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR ANY REQUIRED PENETRATIONS.

2. PROVIDE ROOFING EXPANSION JOINTS AS RECOMMENDED/REQUIRED BY THE ROOFING

3. SEE DETAILS I AND 2/A8.1 FOR PIPE/VENT THRU ROOF, TYP.

4. DETAILS NOT SPECIFICALLY SHOWN SHALL CONFORM TOT HE MANUFACTURER'S STANDARD DETAILS, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER'S REPRESENTATIVE.



ROOF PLAN - BUILDING 2







BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a208b2





- ROOF VENTILATION REQUIREMENTS 1. INSTALL A CLASS 1 OR 2 VAPOR RETARDER ON UNDERSIDE OF TRUSSES 2. RIDGE VENT SHALL ACCOUNT FOR AT LEAST 40% BUT NOT MORE THAN 50% OF REQUIRED VENTILATION AREA
- PROVIDE VENTED SOFFITS AT EAVES OF ALL PORTIONS OF ROOF.
   PROVIDE BAFFLES TO MAINTAIN A MINIMUM OF 2" CLEAR AIR SPACE BETWEEN ROOF
- SHEATHING AND ATTIC INSULATION 5. ROOF VENTILATION CALCULATIONS: ENCLOSED ATTIC AREA = 9,600 SF
- MINIMUM NET CLEAR AREA = 1/300 OF THE ENCLOSED ATTIC AREA REQUIRED NET FREE VENTILATION AREA = 5,913 SF/300 = 19.71 SF = 2,838.24 SQ. IN TOTAL:
- 1,420 SQ. IN. MAX REQUIRED AT RIDGE 1,420 SQ IN. MIN. REQUIRED AT SOFFIT/EAVES.

- REPRESENTATIVE.

ROOF PLAN NOTES 1. ALL ROOF PENETRATIONS TO BE FLASHED PER ROOFING MANUFACTURER'S APPROVED DETAILS, COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR ANY REQUIRED PENETRATIONS.

2. PROVIDE ROOFING EXPANSION JOINTS AS RECOMMENDED/REQUIRED BY THE ROOFING MANUFACTURER.

3. SEE DETAILS I AND 2/A8.1 FOR PIPE/VENT THRU ROOF, TYP. 4. DETAILS NOT SPECIFICALLY SHOWN SHALL CONFORM TOT HE MANUFACTURER'S STANDARD DETAILS, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER'S



ROOF PLAN - BUILDING 3







BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID — a2344 a209b3—





ROOF PLAN NOTES 1. ALL ROOF PENETRATIONS TO BE FLASHED PER ROOFING MANUFACTURER'S APPROVED DETAILS. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR ANY REQUIRED PENETRATIONS.

2. PROVIDE ROOFING EXPANSION JOINTS AS RECOMMENDED/REQUIRED BY THE ROOFING MANUFACTURER.

3. DETAILS NOT SPECIFICALLY SHOWN SHALL CONFORM TOT HE MANUFACTURER'S STANDARD DETAILS, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER'S REPRESENTATIVE.



 $\frac{\text{ROOF PLAN - BUILDING 4}}{\frac{3}{16} = 1^{1} - 0^{11}}$ 



DEN 7-1 **JLDS** OHME GAR 425



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID a2344
 a210b4-









## 3/16"=1'-0"

NORTH ELEVATION 3/16"=1'-0"

0 2' 6'



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 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a301b1











EAST ELEVATION 3/16"=1'-0"







 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a302b2

A3.2B2

0 2' 6'









3/16"=1'-0"

EAST ELEVATION 3/16"=1'-0"





OLDS 425 OHME GARE 



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a303b3

A3.3B3











BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a304b1

A3.4B1





Drwn: Chkd:

 $\mathbf{S}$ ) Z OE GAR OHME 425



BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a305b1

A3.5B1



SECTION C-C BUILDING 1

0 1' 2'



S DEN RC [+] GAR OHME 425



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a306b1

A3.6B1



1/2"=1'-0"

SECTION A-A BUILDING 2

0 1' 2'



Drwn: Chkd:



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a307b2

A3.7B2



SECTION 1/2"=1'-0"

0 1<sup>1</sup> 2<sup>1</sup>



CHELAN COUNTY OLDS STATION CAMPUS 425 OHME GARDEN ROAD WENATCHEE, WASHINGTON 98801



 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID 2344
 a308b2

A3.8B2











A3.9B2

BID SET:

HO

Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a309b2

1/6/2025



SECTION A-A BUILDING 3

0 1<sup>1</sup> 2<sup>1</sup>



Drwn: Chkd:



BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a310b3





1/2"=1'-0"

SECTION B-B BUILDING 3

0 1<sup>1</sup> 2<sup>1</sup>



Drwn: Chkd:



425

BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a311b3







SECTION A-A BUILDING 4 3/16"=1'-0"



JZ

AR

Drwn: Chkd:

801

40F

Job: 2344 Date: 1/6/2025 .DWG ID - 2344 a312b43-

A3.12B4

■ ■ ■ 0 2' 6'





Hollow Metal (H.M.)

Α



DOOR SCHEDULE NOTES:

## RATING: 1/3, 3/4, 1, 1-1/2, ETC. INDICATES HOUR OF FIRE RATING.

### SV = STAIN & VARNISH (OR PRE-FINISH AS APPROVED)FAC = FACTORY OR PRE-FINISH

APPLY FINISHES BOTH SIDES, REGARDLESS OF ROOM FINISH

TYPE - 4: SECTIONAL OVERHEAD DOOR TYPE - 5: COOLER DOOR





✗ INDICATES TEMPERED (OR LAMINATED) SAFETY GLASS

F



HOLLOW METAL F-2

OOR SCH	EDU	JLE -	- BU	ILD	ING	1						
DOOR SIZE	THICKNESS	DOOR ELEVATION	FRAME ELEVATION	DOOR TYPE as spec'd	GLAZING TYPE as spec'd	RATING (MINUTES)	DOOR FINISH	FRAME FINISH	FRAME DETAIL	HARDWARE GROUP		
PR 3'-0 x 7'-0	1-3/4"	А	F-1	1			PNT	PNT	11/A9.1	4		
3'-0 x 7'-0	1-3/4"	D	F-2	2	1		PNT	PNT	10/A9.1	3		
3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	2		
3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	11/A9.1	5		
3'-0 x 7'-0	1-3/4"	D	F-2	2	1		PNT	PNT	10/A9.1	1		
12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18		
12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18		
12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18		
12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18		
3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	11/A9.1	5		
3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	11/A9.1	6		
PR 3'-0 x 7'-0	1-3/4"	В	F-1	2	1		PNT	PNT	10/A9.1	7		
3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	2		
	HZS         PR 3'-0 x 7'-0         12'-0 x 14'-0         3'-0 x 7'-0         9R 3'-0 x 7'-0         3'-0 x 7'-0	HZIS 2000       SSINUPLI         PR 3'-0 x 7'-0       1-3/4"         12'-0 x 14'-0       1-5/8"         3'-0 x 7'-0       1-3/4"         3'-0 x 7'-0       1-3/4"	NOR SCHEDUUE         Image: Series of the s	NOR SCHEDULE - BU         IZS 000       IVEN INCLUSATION         VOLEVAILING       NOLEVAILING         VOLEVAILING       NOLEVAILING         PR 3'-0 x 7'-0       1-3/4"         12'-0 x 14'-0       1-5/8"         12'-0 x 7'-0       1-3/4"         12'-0 x 7'-0       1-3/4"         10       F-2         3'-0 x 7'-0       1-3/4"         1-3/4"	NOR SCHEDULE - BUILDYImage: Second stress of the str	DOR SCHEDULE - BULLDINGBUS SCHEDULE - BULLDINGNOLE ALNOLE AL <td>NOR SCHEDULE - BUILDING         1           Image: Second secon</td> <td>NOR SCHEDULE - BUILDINGImage: Solution of the sector of the sector</td> <td>POR SCHEDULE - BULLDING 1ANOLVATIONPOORS SCHEDULE - BULLDING SETNOLVATION<td>DOR SCHEDULE - BULUDING 1INDENSITYPR 3'-0 x 7'-01-3/4"AF-11ITITPNTPNT3'-0 x 7'-01-3/4"CF-221ITPNTPNT10/A9.13'-0 x 7'-01-3/4"CF-23ITITPNT10/A9.13'-0 x 7'-01-3/4"CF-212ITPNTPNT10/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT11/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT10/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT10/A9.112'-0 x 14'-01-5/8"F&lt;</td>IT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-3/</td>	NOR SCHEDULE - BUILDING         1           Image: Second secon	NOR SCHEDULE - BUILDINGImage: Solution of the sector	POR SCHEDULE - BULLDING 1ANOLVATIONPOORS SCHEDULE - BULLDING SETNOLVATION <td>DOR SCHEDULE - BULUDING 1INDENSITYPR 3'-0 x 7'-01-3/4"AF-11ITITPNTPNT3'-0 x 7'-01-3/4"CF-221ITPNTPNT10/A9.13'-0 x 7'-01-3/4"CF-23ITITPNT10/A9.13'-0 x 7'-01-3/4"CF-212ITPNTPNT10/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT11/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT10/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT10/A9.112'-0 x 14'-01-5/8"F&lt;</td> IT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-5/8"FIT4ITITFAC4A9.112'-0 x 14'-01-3/	DOR SCHEDULE - BULUDING 1INDENSITYPR 3'-0 x 7'-01-3/4"AF-11ITITPNTPNT3'-0 x 7'-01-3/4"CF-221ITPNTPNT10/A9.13'-0 x 7'-01-3/4"CF-23ITITPNT10/A9.13'-0 x 7'-01-3/4"CF-212ITPNTPNT10/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT11/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT10/A9.13'-0 x 7'-01-3/4"DF-212ITPNTPNT10/A9.112'-0 x 14'-01-5/8"F<		

DC	DOOR SCHEDULE - BUILDING 2											
DOOR MARK	DOOR SIZE	THICKNESS	DOOR ELEVATION	FRAME ELEVATION	DOOR TYPE as spec'd	GLAZING TYPE as spec'd	RATING (MINUTES)	DOOR FINISH	FRAME FINISH	FRAME DETAIL	HARDWARE GROUP	
101A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	8	
102A	3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	11/A9.1	5	
102B	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	9	
103A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	8	
105A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	8	
107A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	2	
109A	3'-0 x 7'-0	1-3/4"	С	F-2	2			PNT	PNT	12/A9.1	9	
110A	4'-0 x 7'-0	FAC	Е	FAC	5			FAC	FAC	PER MFR	17	
110B	4'-0 x 7'-0	FAC	Е	FAC	5			FAC	FAC	PER MFR	17	
111A	3'-0 x 7'-0	1-3/4"	С	F-2	2			SV	PNT	12/A9.1	2	
112A	3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	11/A9.1	5	
112B	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18	
112C	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18	
113A	3'-0 x 7'-0	1-3/4"	С	F-2	1			PNT	PNT	11/A9.1	10	
113B	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18	
113C	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18	
113D	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	4/A9.1	18	
113E	3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	11/A9.1	5	
201A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11	
202A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11	
203A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11	
204A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	11	

				- <u>DU</u>			3				
DOOR MARK	DOOR SIZE	THICKNESS	DOOR ELEVATION	FRAME ELEVATION	DOOR TYPE as spec'd	GLAZING TYPE as spec'd	RATING (MINUTES)	DOOR FINISH	FRAME FINISH	FRAME DETAIL	HARDWARE GROUP
101A	3'-0 x 7'-0	1-3/4"	С	F-2	1			PNT	PNT	9/A9.1	5
101B	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	9
102A	3'-0 x 7'-0	1-3/4"	С	F-2	1			PNT	PNT	9/A9.1	16
102B	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	15
103A	3'-0 x 7'-0	1-3/4"	D	F-2	1	2		PNT	PNT	9/A9.1	14
104A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	2
105A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	9
107A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	13
108A	3'-0 x 7'-0	1-3/4"	D	F-2	2	1		PNT	PNT	12/A9.1	12
110A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	2
111A	3'-0 x 7'-0	1-3/4"	С	F-2	2			PNT	PNT	12/A9.1	2
112A	3'-0 x 7'-0	1-3/4"	С	F-2	1			PNT	PNT	9/A9.1	10
112B	3'-0 x 7'-0	1-3/4"	С	F-2	1			PNT	PNT	9/A9.1	10
112C	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	3/A9.1	18
112D	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	3/A9.1	18
112E	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	3/A9.1	18
112F	12'-0 x 14'-0	1-5/8"	F		4			FAC	FAC	3/A9.1	18
112G	3'-0 x 7'-0	1-3/4"	С	F-2	1			PNT	PNT	9/A9.1	5
201A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11
202A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11
203A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11
205A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11
208A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	11
209A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	11
211A	3'-0 x 7'-0	1-3/4"	D	F-2	3	1		SV	PNT	12/A9.1	8
212A	3'-0 x 7'-0	1-3/4"	С	F-2	3			SV	PNT	12/A9.1	2

DC	OOR SCH	EDU	JLE -	- BU	ILD	ING	4				
DOOR MARK	DOOR SIZE	THICKNESS	DOOR ELEVATION	FRAME ELEVATION	DOOR TYPE as spec'd	GLAZING TYPE as spec'd	RATING (MINUTES)	DOOR FINISH	FRAME FINISH	FRAME DETAIL	HARDWARE GROUP
102A	10'-0 x 10'-0	1-5/8"	F		4			FAC	FAC	4/A9.1 SIM.	18
102B	3'-0 x 7'-0	1-3/4"	С	F-2	2			PNT	PNT	12/A9.1 SIM.	5







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FL	OOR	BA	SE	W	ALLS	CE	EILING	
Ma	aterial	M	aterial	Ma	aterial	Ma	aterial	
Fir	nish	Fir	nish	Fir	nish	Finish		
1	CONCRETE		4" RUBBER		GWB		GWB	
I	SEALER		FACTORY		PAINT		PAINT	
	CONCRETE		6" RUBBER		FRP		COOLER PANEL	
2	SHEET VINYL TYPE-1	B	FACTORY	2	FACTORY	B	FACTORY	
_	CONCRETE		FRP		COOLER Panel		AT-1	
3	SHEET VINYL TYPE-2		FACTORY	3	FACTORY		FACTORY	
Λ	CONCRETE		S.V. TYPE-2 6" COVE	4	OPEN TO Structure		AT-2	
4	CARPET TYPE-1		FACTORY	4	-		FACTORY	
-	CONCRETE		RUBBER SKIRTING				AT-3	
С	ENTRANCE MAT TYPE-1		FACTORY				FACTORY	
C	*WOOD	-	COOLER Panel			-	OPEN TO Structure	
0	SHEET VINYL TYPE-1	<b> </b> <sup>_</sup>	FACTORY				FACTORY	
7	*WOOD						PLYWOOD	
/	SHEET VINYL TYPE-3	1					PAINT	
	*WOOD							
8	CARPET TYPE-1	1				1		
0	WOOD							
9	FACTORY	1				1		
10	CONCRETE							
10	RESINOUS COATINGS	1		1		1		
	ASPHALT							
11		1		1				

SPECIFICATIONS

WINDOW TREATMENT (WT-1) - INCLUDES ALL EXTERIOR WINDOWS, SEE

"\*WOOD" DESIGNATES  $\frac{1}{4}$ " APA STAMPED UNDERLAYMENT TO BE INSTALLED OVER PLYWOOD SHEATHING AS REQUIRED BY FLOORING MANUFACTURER.

RC	DOI	M F	FIN	ISE	I SO	CH	ED	ULE	- BUILDING 1
ROOM NUMBER	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	WINDOW TREATMENT	REMARKS
101	1	А	1	1	1	1	А		
102	2	В	1	1	1	1	А		
103	2	А	1	1	1	1	А	WT-1	
104	1	С	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	А		
105	1	А	1	1	1	1	А		
106	2	В	1	1	1	1	A		

RC	DO	M F	FIN	ISF	I SO	CH	ED	ULE	- BUILDING 2
ROOM NUMBER	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	WINDOW TREATMENT	REMARKS
101	4	А	1	1	1	1	А	WT-1	
102	$\frac{2}{5}$	А	1	1	1	1	А	WT-1	
103	4	А	1	1	1	1	А		
104	2	А	1	1	1	1	А	WT-1	
105	2	А	1	1	1	1	А		
106	7	E	1	1	1	1	А		
107	2	В	1	1	1	1	А		
108	3	D	1	1	1	1	С		
109	1	А	1	1	1	1	D		
110	10	F	3	3	3	3	В		
111	2	В	1	1	1	1	А		
112	1	А	$\frac{1}{3}$	1	$\frac{1}{3}$	1	А		
113	1	С	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	A		
201	4	А	1	1	1	1	А	WT-1	
202	4	А	1	1	1	1	А	WT-1	
203	4	A	1	1	1	1	A	WT-1	
204	4	A	1	1	1	1	A		
205	4	А	1	1	1	1	A		

RC	DOI	MB	FIN	ISF	I SO	CH	ED	ULE	- BUILDING 3
ROOM NUMBER	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	WINDOW TREATMENT	REMARKS
101	4	А	1	1	1	1	А	WT-1	
102	2	А	1	1	1	1	E	WT-1	
103	$\frac{2}{5}$	А	1	1	1	1	А	WT-1	
104	2	В	1	1	1	1	А		
105	4	А	1	1	1	1	А	WT-1	
106	7	E	1	1	1	1	А		
107	4	А	1	1	1	1	А		
108	4	А		1	1	1	А		
109	4	А	1	1	1		А		
110	2	В	1	1	1	1	А		
111	1	В	1	1	1	1	А		
112	1	С	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	A F		
201	4	А	1	1	1	1	А	WT-1	
202	4	А	1	1	1	1	А	WT-1	
203	4	А	1	1	1	1	А	WT-1	
204	2	А	1	1	1	1	А		
205	4	А	1	1	1	1	А	WT-1	
206	2	А	1	1	1	1	А		
207	2	А	1	1	1	1	А		
208	4	А	1	1	1	1	А	WT-1	
209	4	А	1	1	1	1	А		
210	2	А	1	1	1	1	А		
211	4	А	1	1	1	1	А	WT-1	
212	2	В	1	1	1	1	A		
213	9	А	1	1	1	1	А		

RC	DO	M F	IN	ISF	I SO	CH	ED	ULE	- BUILDING 4
ROOM NUMBER	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	Ceiling	WINDOW TREATMENT	REMARKS
101	11		4	4	4	4	G		
102	1		4	4	4	4	G		







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### WALL SCHEDULE

WALL SCHEDULE GENERAL NOTES
 COORDINATE WITH ALL STRUCTURAL DRAWINGS FOR REQUIRED SHEARWALL LOCATIONS. PROVIDE PLYWOOD SHEATHING AS NOTED PER STRUCTURAL IN ADDITION TO WALL TYPE SHOWN HERE.

- CONCEALED WALL SPACES FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS AS FOLLOWS:
   2.1. VERTICALLY AT CEILING AND FLOOR LEVELS.
   2.2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'.
- 3. PROVIDE MOISTURE RESISTANT GWB AT ALL RESTROOMS WALLS AND CEILINGS.
- 4. PROVIDE PRESSURE TREATED WOOD AT ALL AREAS IN CONTACT WITH CONCRETE OR PROVIDE SUITABLE BARRIER BETWEEN WOOD AND CONCRETE AS APPROVED BY ARCHITECT.
- 5. ALL SEAMS, JOINTS, PENETRATIONS, ETC. IN THE HOUSE WRAP, EXTERIOR SHEATHING AND VAPOR BARRIER ARE TO BE SEALED, CAULKED, GLUED, ETC. TO BE AIR/WATER TIGHT







\*FIRE RETARDANT COATED SHEATHING - INSTALL NOMINAL 48" WIDE X 96" TALL, WITH THE WHITE SIDE FACING OUT. INSTALL SHEATHING STAGGERED AT G.W.B. SEAMS. SECURE SHEATHING TO WOOD STUDS  $1\frac{7}{8}$ " LONG 6d NAILS SPACED AT 6" O.C. AROUND THE PERIMETER AND 12" O.C. IN THE FIELD. ALTERNATIVELY, USE 8d OR 10d NAILS AND THE SAME SPACING.

5% G.W.B. OVER VAPOR BARRIER

FINISHES AS SCHEDULED







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REFLECTED CEILING PLAN - BUILDING 1

Drwn: Chkd:





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## ROOM SCHEDULE

- 101 COMPRESSOR ROOM/STORAGE
  102 UNISEX ADA RESTROOM
  103 OFFICE
  104 VEHICLE REPAIR GARAGE
  105 STORAGE
  106 UNISEX ADA RESTROOM

## $\begin{bmatrix} \bullet & \bullet \\ 0 & 2^{\mathsf{I}} & 6^{\mathsf{I}} \end{bmatrix}$







FIRST FLOOR REFLECTED PLAN - BUILDING 2



### ROOM SCHEDULE

- 101 FAMILY MEETING ROOM
  102 HALL
  103 CONFERENCE ROOM/STAFF
  104 HALL/KITECHENETTE
  105 STORAGE
  106 STAIR
  107 UNISEX ADA RESTROOM
  108 EXAM ROOM
  109 PROPERTY EVIDENCE TOXICOLOGY
  110 WALK-IN COOLER
  111 UNISEX ADA RESTROOM/SHOWER ROOM
  112 STORAGE
  113 STORAGE







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 .DWG ID 2344 a602b2 2344 a202b2x64
 2344 a202b2x64

A6.2B2





## SECOND FLOOR REFLECTED CEILING PLAN - BUILDING 2 3/16"=1'-0"







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 a603b2

 2344
 a202b2x64

ROOM		SCHEDUL
106	STAID	

106 STAIR201 OFFICE202 OFFICE203 OFFICE204 STORAGE205 HALL

0 2' 6'

A6.3B2





## FIRST FLOOR REFLECTED CEILING PL 3/16"=1'-0"

## 0 2<sup>1</sup> 6<sup>1</sup>

## ROOM SCHEDULE

- 101 OFFICE
  102 TRAINING
  103 HALL
  104 UNISEX ADA RESTROOM
  105 RECEPTION OFFICE
  106 STAIR
  107 STORAGE
  108 HALL
  109 WORK AREA
  110 UNISEX ADA RESTROOM
  111 UNISEX RESTROOM
  112 STORAGE







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## SECOND FLOOR REFLECTED CEILING PLAN - BUILDING 3







## BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID a2344 a605b3-a2344 a205b3x64 a605b3-a2344 a205b3x64

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## ROOM SCHEDULE

- 201 OFFICE
  202 OFFICE
  203 OFFICE
  204 HALL
  205 OFFICE
  206 HALL
  207 BREAK ROOM
  208 OFFICE
  209 STORAGE
  210 HALL
  211 CONFERENCE ROOM
  212 UNISEX ADA RESTROOM
  213 MEZZANINE













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ROOM SCHEDULE

101 OPEN AREA - BULL PEN 102 SECURE AREA - BULL PEN

A6.6B4


UU	CONCRETE CANTILEVER RETAINING WALL SCHEDULE										
Wall	H (max)	W	Т		В	С	D	E	F	G	J
W-3	3'	2'-0"	8"		#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@18 <b>"</b> o.c.	(3)#4	NONE	#4@12 <b>"</b> o.c.	NONE
W-4	4'	3'-0"	8"		#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@18 <b>"</b> o.c.	(3)#5	NONE	#4@12 <b>"</b> o.c.	NONE

W-3	3'	2'-0"	8"	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@18 <b>"</b> o.c.	(3)#4	NONE	#4@12 <b>"</b> o.c.	NONE	9 <b>"</b>
W-4	4'	3'-0"	8 <b>"</b>	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@18 <b>"</b> o.c.	(3)#5	NONE	#4@12 <b>"</b> o.c.	NONE	10 <b>"</b>
W-5	5'	4'-3"	12"	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@18 <b>"</b> o.c.	(4)#5	NONE	#4@12 <b>"</b> o.c.	NONE	10 <b>"</b>
W-6	6'	5'-4"	12"	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@12 <b>"</b> o.c.	(5)#5	NONE	#4@12 <b>"</b> o.c.	NONE	1'-0"
W-7	7'	5'-4"	12"	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@12 <b>"</b> o.c.	(5)#5	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	1'-0 <b>"</b>	1'-0"
W-8	8'	6'-7 <b>"</b>	12"	#5@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@12 <b>"</b> o.c.	(6)#5	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	1'-4"	1'-0"
W-9	9'	7'-6"	30"	#6@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	#5@12 <b>"</b> o.c.	(8)#5	#4@12 <b>"</b> o.c.	#4@12 <b>"</b> o.c.	1'-6"	1'-2"











FBEDDING CONCRETE

W/ REINFORCEMENT PER STRUCT. (SEE BUILDING 3)

TRENCH DRAIN — (DEPTH VARIES)

0 6" 1

0 6" 1'

32'x32' FOOTING FOR BOTTOM 12' WHERE FOOTING IS ATOP BLDG FOOTING

(26) TRAFFIC BOLLARD

SCALE: 3/4" = 1'-0"









Chkd:

Drwn:

DEN RO **A**R OHME



BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID - 000X000-





#### STRUCTURAL NOTES GENERAL:

- 1. Dimensions: The structural drawings shall be considered as a part of the complete set of Contract drawings, including the drawings of all disciplines. It is intended that the Structural drawings will provide sufficient dimensions to locate the primary structural elements and members. Location of secondary members which are affected by systems detailed by others may require reference to the drawings of other disciplines and layout and coordination by the contractor. If direct conflict between dimensions of two or more disciplines is encountered, such conflicts shall be resolved by the Architect. Do not use scaled dimensions. Use written dimensions or where dimensions are not provided, consult the architect for clarifications before proceeding with the work in question.
- 2. Omissions or conflicts between various elements of the drawings, specifications, notes, and details shall be brought to the attention of the structural engineer and resolved before proceeding with the work. The contractor must submit in writing any requests for modifications to the plans and specifications. Shop drawings submitted to the structural engineer for review do not constitute "in writing" unless it is clearly noted that specific changes are being requested.
- 3. Deferred Submittals: Where Structural components are fully or partially designed and detailed by the supplier or fabricator, complete shop drawings and calculations, signed and sealed by a professional engineer registered in the state where the project is located, shall be submitted to the structural engineer for review. In addition, a copy of these documents shall be submitted to the Building Official for approval in accordance with IBC Section 107.3.4.1.
- 4. The Contract drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include but not be limited to bracing and shoring for loads due to construction equipment and materials.

#### DESIGN CRITERIA:

- 1. Used 2021 International Building Code. 2. ASD Design Loads:
- 2.1. Roof: D.L. = 15#/SF., L.L. = 44#/SF. Snow.
- Wind load = 85 MPH (nominal), 110 MPH (ultimate), exposure C, lw = 1.0. 4. Seismic: Equivalent Static Force Design Procedure. Seismic Design Category D, Site Class D.
- Ss = 0.544 SDS = 0.495
- S1 = 0.215 SD1 = 0.280
- R = 2.5 Light framed walls w/shear panels all other materials. le = 1.0.

#### \*\*Per ICC Commentary:

"Wind speeds are designated as "ultimate design" or "nominal design" wind speeds and are used for either strength design or allowable stress designs respectively. The ultimate design wind speeds are indicated in Figures 1609A, B & C, and vary based on the building's risk category and location. The ultimate design for wind speeds for a Risk Category II building vary from 110 mph on the West Coast to 180 mph in hurricane-prone areas in southern Florida. These wind speeds would convert to a nominal design wind speed, or what was previously called the "basic wind speed" 85 mph for the West Coast and 139 mph for southern Florida when using allowable stress design."

#### QUALITY ASSURANCE:

#### FOUNDATIONS:

1. Maximum foundation soil bearing pressure used = 1500#/SF. MATERIALS:

#### CONCRETE:

- 1. Mix design shall be established in accordance to Chapter 5 of ACI 318. 2. Concrete shall be a design mix producing strengths at 28 days as listed below:
- 2.1. Footings: 2500 psi (4-1/2 sack mix)
- 2.2. Slab on grade: 3500 psi (5-1/2 sack mix)
- (designed as 2500 psi, special inspection not required) Maximum slump of concrete shall be 4" prior to the addition of admixtures. 3.
- Maximum aggregate size shall be the least dimension of: 4. 4.1. 1/5 the narrowest dimension between sides of forms. 4.2. 3/4 the clear spacing between reinforcing bars
- 4.3. 1/3 the depth of the slab.
- 5. Pre-Engineered Perma-Column 28 day strength f'c = 10,000 PSI.

#### STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. All steel work shall conform with AISC specifications. 2. Bolts ASTM A307 for connections to concrete. Bolts ASTM A325 for steel to steel connections. Bolts to be snug tight except bolts indicated as S.C. to be fully tightened.
- 3. Roof Steel Panels: Shall be painted 24 Ga (MS-150), standing seam steel and
- shall be attached to framing per manufacturer recommendations. 4. Wall Steel Panels: Shall be painted 24 Ga (HR-34), ribbed steel and shall be

#### LUMBER:

- 1. Sawn lumber for studs, joists, etc.(2x6 or larger) = No.2 Doug Fir larch or SPF 1250 psi. or better.
- 2. 2x4's = Standard Doug Fir larch.
- 3. Posts (Interior) = Triad Building Components MSR SPF.
- 3.1. 2x8 Post Lam Uppers = 1,950Fb-1.7E 3.2. 2x6 Post Lam Uppers = 1,650Fb-1.5E
- 3.3. #1 Treated So. Pine Lam when embedment is in contact with ground.
- (Excludes Perma Columns)
- 4. Roof Sheathing =  $\frac{7}{16}$ ", minimum. 4.1. Nailing = 8d(.131 Ø shank x 2  $\frac{1}{2}$ " long) or 1  $\frac{1}{2}$ " x 16Ga. staples at 6" o.c. all
- supported edges, 12" o.c. in field. 5. All nails are to be common nails unless noted otherwise.
- 6. For connections of "SIMPSON" hardware or equivalent follow manufacturers
- recommendations.
- 7. Trus-Joist products:
- 7.1. Roof joists shown as TJI etc. shall be designed for the loads specified and shall conform to Trus-Joist specification.
- 7.2. Joists exceeding 24' in length shall be cambered to a standard radius of R = 2250.
- 7.3. Any alternate joist system(s) shall be the same depth and load Carrying capacity as the Trus-Joist system show on the drawings.
- 7.4. Micro Lam (LVL) E-1,900,000 psi. 8. Structural Glued Laminated Timber (GLB) = 24f-V4 (DF/DF) with standard
- camber.
- 9. Premanufactured Trusses
- 9.1. Truss Loading:

Top Chord D.L.	= 8 PSF.
Bottom Chord D.L.	= 7 PSF.

Top Chord L.L.	= 44 PSF.
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- Bottom Chord L.L. = 2 PSF. Does not act concurrently with top chord L.L.
- 9.2. Member Properties:
- Chords shall be #2 Douglas Fir or better.
- Webs shall have minimum Modulus of Elasticity of 1,500,000 psi.
- 9.3. All truss blocking shall be provided by the truss manufacturer and constructed with approved plates.
- 9.4. Truss Manufacturer shall verify all truss dimensions, accounting for tolerances, connections, and splice requirements. 9.5. Truss profiles shown are representations of possible configurations of Web locations and member sizes. Truss manufacturer shall submit shop
- drawings for approval. All trusses shall be designed by a registered professional engineer and all shop drawings shall be stamped and signed
- by a registered professional engineer.
- 9.6. Truss manufacturer shall provide proof of approved third party I inspection as required by IBC chapter 2303.4.
- 9.7. Truss manufacturer shall design all truss to truss connections and shall indicate said connections on the shop drawings.
- 9.8. Each truss shall be marked with the following information: 9.8.1. Manufacturers identity.
- 9.8.2. Design Load.
- 9.8.3. Truss spacing. 10. All lumber in contact with concrete, masonry, or ground shall be preservative

treated wood in accordance with AWPA standards. Posts embedded in the ground shall comply with UC4B .60 treatment or greater.

attached to framing with 1 1/2" x #9 screws with neoprene washers at 9" o.c.



SHEET LIST

S0-B1 = GENERAL NOTES S1-B1 = FOUNDATION PLAN S2-B1 = ROOF FRAMING PLAN S3-B1 = SECTION AND DETAILS

#### ROOF SNOW LOAD FACTORS Pf = 0.7(Ce)(Ct)(I)Pg

Elevation	= 692 ft.
Ground snow	= 57 psf. min.
Importance	= 1.0
Thermal (Ct)	= 1.1
Exposure (Ce)	= 1.0
Slope (Cs)	= 1.0

Roof Snow (Pf) = 44.0 Sloped Roof Snow (Ps) = 44.0



801

5 WASHINGTON ATCHEE, WEN GAF OHME <u></u>425



S0-B1

Job: 2344 Date: 1/6/2025

1/6/2025

BID SET:

.DWG ID -



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





# FOUNDATION NOTES:

- OSB SHIMS & TYP. NAILING ON FACES OF PERMA COLUMN LAM. TO FLUSH OUT WHERE NEEDED.
- 2 PROVIDE FULL HEIGHT 2x8 ON OUTSIDE FACE OF GABLE END EAVE POSTS, TO SUPPORT LOW TRUSS. ATTACH w/(2) 16d @ 12" O.C. TYP.
- 3 INSTALL R-10 FROST BARRIER UNDER SLAB, SEE DETAIL 5/S3-B1.
- 4 CONFIRM MAN DOOR LOCATIONS w/OWNER OR ARCHITECT.
- 5 PROVIDE FULL HEIGHT 2x6 ON OUTSIDE FACE OF GABLE END EAVE POSTS, TO SUPPORT LOW TRUSS. ATTACH w/(2) 16d @ 12" O.C. TYP.
- 6 EXTENT OF 7" DEEP THICKENED SLAB FOR FUTURE "2-POST LIFT" BY OWNER. SEE DETAIL 18/S3-B1.
- 7 TRENCH DRAIN PER ARCHITECT.

	FOOTING SCHEDULE								
MARK	"D"	DEPTH	POST - LOWER	POST - UPPER	DETAIL	BELL - WIDTH	BELL - DEPTH		
F1	2'-0"Ø	4'-0"	Perma-Column 8400	(4) 2x8 SPF	6/S3-B1	3'-0"Ø	10"		
F2	2'-0"Ø	4'-0"	Perma-Column 8300	(3) 2x8 SPF	6/S3-B1				
F3	2'-0"Ø	4'-0"	Perma-Column 6400	(4) 2x6 SPF	6/S3-B1	3'-0"Ø	10"		
F4	2'-0"Ø	4'-0"	Perma-Column 6300	(3) 2x6 SPF	6/S3-B1				



 
 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025
 .DWG ID -

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S1-B1

Chkd:



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



- (2) LSTA18 STRAP- PLACE AT INSIDE OF FASCIA BOARD IF NO OVERHANGS. PLACE AT INSIDE FACE OF TOP WALL GIRT IF OVERHANGS
- 2 (1) LSTA18 STRAP- PLACE AT INSIDE OF FASCIA BOARD IF NO OVERHANGS. PLACE AT INSIDE FACE OF TOP WALL GIRT IF OVERHANGS
- 3 CONFIRM WINDOW & MAN DOOR LOCATIONS w/OWNER OR ARCHITECT.
- 4  $\frac{1}{16}$ " MIN. ROOF SHEATHING ON ALL ROOF SURFACES. TYP. ATTACH PER LUMBER NOTE 4/S0-B1

HEADER SCHEDULE					
MARK	MEMBER	SUPPORT			
H1	V = (1) 2x10 DF#2 H = (1) 2x8 DF#2	(1) 2x8 TRIMMER			
H2	V = (1) 2x6 DF#2 H = (1) 2x6 DF#2				
H3	V = (1) 2x6 DF#2				
H4 H = (1) 2x8 DF#2					
NOTE: REFER TO DETAILS 14,15,16 & 17/S3-B1 FOR HEADER FRAMING CONDITIONS.					





BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID -

S2-B1





801 ASHIN VEN **OLDS ST** 425 OHME GARDEN ROA

01/06/2025

Chkd:



S3-B1

#### STRUCTURAL NOTES GENERAL:

- 1. Dimensions: The structural drawings shall be considered as a part of the complete set of Contract drawings, including the drawings of all disciplines. It is intended that the Structural drawings will provide sufficient dimensions to locate the primary structural elements and members. Location of secondary members which are affected by systems detailed by others may require reference to the drawings of other disciplines and layout and coordination by the contractor. If direct conflict between dimensions of two or more disciplines is encountered, such conflicts shall be resolved by the Architect. Do not use scaled dimensions. Use written dimensions or where dimensions are not provided, consult the architect for clarifications before proceeding with the work in question.
- 2. Omissions or conflicts between various elements of the drawings, specifications, notes, and details shall be brought to the attention of the structural engineer and resolved before proceeding with the work. The contractor must submit in writing any requests for modifications to the plans and specifications. Shop drawings submitted to the structural engineer for review do not constitute "in writing" unless it is clearly noted that specific changes are being requested.
- 3. Deferred Submittals: Where Structural components are fully or partially designed and detailed by the supplier or fabricator, complete shop drawings and calculations, signed and sealed by a professional engineer registered in the state where the project is located, shall be submitted to the structural engineer for review. In addition, a copy of these documents shall be submitted to the Building Official for approval in accordance with IBC Section 107.3.4.1.
- 4. The Contract drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include but not be limited to bracing and shoring for loads due to construction equipment and materials.

#### DESIGN CRITERIA:

- 1. Used 2021 International Building Code. 2. ASD Design Loads:
- 2.1. Roof: D.L. = 15#/SF., L.L. = 44#/SF. Snow.
- Wind load = 85 MPH (nominal), 110 MPH (ultimate), exposure C, Iw = 1.0. Seismic: Equivalent Static Force Design Procedure. Seismic Design Category D, Site Class D.
- Ss = 0.544 SDS = 0.495
- S1 = 0.215 SD1 = 0.280
- R = 2.5 Light framed walls w/shear panels all other materials. le = 1.0.

#### \*\*Per ICC Commentary:

"Wind speeds are designated as "ultimate design" or "nominal design" wind speeds and are used for either strength design or allowable stress designs respectively. The ultimate design wind speeds are indicated in Figures 1609A, B & C, and vary based on the building's risk category and location. The ultimate design for wind speeds for a Risk Category II building vary from 110 mph on the West Coast to 180 mph in hurricane-prone areas in southern Florida. These wind speeds would convert to a nominal design wind speed, or what was previously called the "basic wind speed" 85 mph for the West Coast and 139 mph for southern Florida when using allowable stress design."

#### QUALITY ASSURANCE:

#### FOUNDATIONS:

1. Maximum foundation soil bearing pressure used = 1500#/SF. MATERIALS:

#### CONCRETE:

- 1. Mix design shall be established in accordance to Chapter 5 of ACI 318. 2. Concrete shall be a design mix producing strengths at 28 days as listed below:
- 2.1. Footings: 2500 psi (4-1/2 sack mix)
- 2.2. Slab on grade: 3500 psi (5-1/2 sack mix)
- (designed as 2500 psi, special inspection not required) Maximum slump of concrete shall be 4" prior to the addition of admixtures. 3.
- Maximum aggregate size shall be the least dimension of: 4. 4.1. 1/5 the narrowest dimension between sides of forms. 4.2. 3/4 the clear spacing between reinforcing bars
- 4.3. 1/3 the depth of the slab.
- 5. Pre-Engineered Perma-Column 28 day strength f'c = 10,000 PSI.

STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. All steel work shall conform with AISC specifications. 2. Bolts ASTM A307 for connections to concrete. Bolts ASTM A325 for steel to steel connections. Bolts to be snug tight except bolts indicated as S.C. to be fully tightened.
- 3. Roof Steel Panels: Shall be painted 24 Ga (MS-150), standing seam steel and
- shall be attached to framing per manufacturer recommendations. 4. Wall Steel Panels: Shall be painted 24 Ga (HR-34), ribbed steel and shall be

#### LUMBER:

- 1. Sawn lumber for studs, joists, etc.(2x6 or larger) = No.2 Doug Fir larch or SPF 1250 psi. or better.
- 2. 2x4's = Standard Doug Fir larch.
- 3. Posts (Interior) = Triad Building Components MSR SPF.
- 3.1. 2x8 Post Lam Uppers = 1,950Fb-1.7E 3.2. 2x6 Post Lam Uppers = 1,650Fb-1.5E
- 3.3. #1 Treated So. Pine Lam when embedment is in contact with ground. (Excludes Perma Columns)
- 4. Roof Sheathing =  $\frac{7}{16}$ ", minimum.
- 4.1. Nailing = 8d(.131 Ø shank x 2  $\frac{1}{2}$ " long) or 1  $\frac{1}{2}$ " x 16Ga. staples at 6" o.c. all supported edges, 12" o.c. in field.
- 5. Loft Sheathing =  $\frac{3}{4}$ ", minimum. 5.1. Nailing = 10d(.148 Ø shank x 3" long) at 6" o.c. all supported edges, 12"
- o.c. in field. 6. All nails are to be common nails unless noted otherwise.
- 7. For connections of "SIMPSON" hardware or equivalent follow manufacturers recommendations.
- 8. Trus-Joist products:
- 8.1. Roof joists shown as TJI etc. shall be designed for the loads specified and shall conform to Trus-Joist specification.
- 8.2. Joists exceeding 24' in length shall be cambered to a standard radius of R = 2250.
- 8.3. Any alternate joist system(s) shall be the same depth and load Carrying
- capacity as the Trus-Joist system show on the drawings.
- 8.4. Micro Lam (LVL) E-1,900,000 psi. 9. Structural Glued Laminated Timber (GLB) = 24f-V4 (DF/DF) with standard

#### camber.

- 10. Premanufactured Trusses
- 10.1. Truss Loading:
  - Top Chord D.L. = 8 PSF.
- Bottom Chord D.L. = 7 PSF.
- Top Chord L.L. = 44 PSF.
- Bottom Chord L.L. = 2 PSF. Does not act concurrently with top chord L.L.
- 10.2. Member Properties:
- Chords shall be #2 Douglas Fir or better. Webs shall have minimum Modulus of Elasticity of 1,500,000 psi. 10.3. All truss blocking shall be provided by the truss manufacturer and
- constructed with approved plates.
- 10.4. Truss Manufacturer shall verify all truss dimensions, accounting for tolerances, connections, and splice requirements. 10.5. Truss profiles shown are representations of possible configurations of Web
- locations and member sizes. Truss manufacturer shall submit shop drawings for approval. All trusses shall be designed by a registered professional engineer and all shop drawings shall be stamped and signed by a registered professional engineer.
- 10.6. Truss manufacturer shall provide proof of approved third party I inspection as required by IBC chapter 2303.4.
- 10.7. Truss manufacturer shall design all truss to truss connections and shall
- indicate said connections on the shop drawings. 10.8. Each truss shall be marked with the following information: 10.8.1. Manufacturers identity.
- 10.8.2. Design Load.
- 10.8.3. Truss spacing.
- 11. All lumber in contact with concrete, masonry, or ground shall be preservative treated wood in accordance with AWPA standards. Posts embedded in the ground shall comply with UC4B .60 treatment or greater.

attached to framing with 1 <sup>1</sup>/<sub>2</sub>" x #9 screws with neoprene washers at 9" o.c.



#### SHEET LIST

S0-B2 = GENERAL NOTES S1-B2 = FOUNDATION PLAN S2-B2 = ROOF FRAMING PLAN S3-B2 = SECTION AND DETAILS

#### ROOF SNOW LOAD FACTORS Pf = 0.7(Ce)(Ct)(I)Pg

Elevation	= 692 ft.
Ground snow	= 57 psf. min.
Importance	= 1.0
Thermal (Ct)	= 1.1
Exposure (Ce)	= 1.0
Slope (Cs)	= 1.0

Roof Snow (Pf) = 44.0 Sloped Roof Snow (Ps) = 44.0



801

5 WASHINGTON ATCHEE, WEN GAI OHME 25



S0-B2

Job: 2344 Date: 1/6/2025

1/6/2025

BID SET:

.DWG ID -



#### FOUNDATION PLAN SCALE: 3/16" = 1'-0"



# FOUNDATION NOTES:

- OSB SHIMS & TYP. NAILING ON FACES OF PERMA COLUMN LAM. TO FLUSH OUT WHERE NEEDED.
- 2 INSTALL R-10 VERTICAL FROST BARRIER AT FACE OF THICKENED FOOTING, SEE DETAIL 6/S3-B2.
- 3 INSTALL R-10 FROST BARRIER UNDER SLAB, SEE DETAIL 4/S3-B2.
- 4 CONFIRM MAN DOOR LOCATIONS w/OWNER OR ARCHITECT.
- 5 TRENCH DRAIN PER ARCHITECT.

F1 2'-0"Ø

F2 2'-0"Ø

- 6 INFILL NON-BEARING WALL: 2x6 STUDS FRAMED @ 16" O.C. w/PT 2x SILL PLATE w/MIN. %"Øx4" EXPANSION ANCHORS AND STD. WASHERS @ 5' O.C. & 12" FROM ENDS.
- INFILL BEARING WALL W/ THICKENED EDGE FOOTING: 2x6
   STUDS FRAMED @ 16" O.C. w/PT 2x SILL PLATE w/MIN.
   % "Øx4" EXPANSION ANCHORS AND STD. WASHERS @ 5' O.C.
   & 12" FROM ENDS. SEE DETAIL 6/S3-B2
- 8 INFILL BEARING WALL W/ THICKENED FOOTING: 2x6 STUDS FRAMED @ 16" O.C. w/PT 2x SILL PLATE w/MIN. 5%"Øx4" EXPANSION ANCHORS AND STD. WASHERS @ 5' O.C. & 12" FROM ENDS. SEE DETAIL 7/S3-B2

FOOTING SCHEDULE

MARK "D" DEPTH POST-LOWER POST-UPPER DETAIL BELL-WIDTH BELL-DEPTH

 F3
 2'-0"Ø
 4'-0"
 Perma-Column 6400
 (4) 2x6 SPF
 5/S3-B2
 3'-0"Ø

 F4
 2'-0"Ø
 4'-0"
 Perma-Column 6300
 (3) 2x6 SPF
 5/S3-B2

4'-0" Perma-Column 8300 (3) 2x8 SPF 5/S3-B2 -----

4'-0" Perma-Column 8400 (4) 2x8 SPF 5/S3-B2 3'-0"Ø 10"

BID SET:	1/6/2025
Job: 2344	Date: 1/6/2025
DWG ID -	

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S1-B2

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10"

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A Large More	ON O. CLAR OF WASHING WASHING 47402 47402 HICISTERED SIONAL ENGINE 01/06/2025
Drwn:	Chkd:

GAR 425 OHME (





# LOFT FRAMING PLAN

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



**FRUCTURE** 

**JEN** 

GARDEN RC 425 OHME (



12'x14' O/H DOOR

FOUNDATION NOTES:

T STAIR STRINGERS SHALL BE 1 <sup>3</sup>/<sub>4</sub>"x14" LVL

2 USE 1 <sup>3</sup>/<sub>4</sub>"x16" LVL RIM JOIST

3 USE 1 ¾"x16" LVL HEADER FOR STAIR ATTACHMENT w/ IUS1.81/16 FACE MOUNT HANGERS AT SUPPORTING MEMBER.

4 NON-BEARING WALLS PER ARCHITECT. DASHED WALLS ARE WALLS BELOW.

5 3/4" LOFT SHEATHING. ATTACH PER LUMBER NOTE 5/S0-B2

ŀ	HEADER SCHEDULE					
MARK	MEMBER	SUPPORT				
H1	(1) 2x10 DF#2 V; (1) 2x8 DF#2 H	(1) 2x8 TRIMMER				
H2	(1) 2x6 DF#2 V; (1) 2x8 DF#2 H	-				
H3	(1) 2x6 DF#2 V	-				
H4 (3) 2x10 DF#2 V (2) 2x6 TRIMMEF (1) 2x6 KING						
NOTE: F	NOTE: REFER TO DETAILS 15, 16, 17 & 18/S3-B2 FOR HEADER FRAMING CONDITIONS.					



 
 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025
 .DWG ID -

S2.1-B2



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



- (2) LSTA18 STRAP- PLACE AT INSIDE OF FASCIA BOARD IF NO OVERHANGS. PLACE AT INSIDE FACE OF TOP WALL GIRT IF OVERHANGS
- 2 CONFIRM WINDOW & MAN DOOR LOCATIONS w/OWNER OR ARCHITECT.
- 3  $\frac{1}{16}$ " MIN. ROOF SHEATHING ON ALL ROOF SURFACES. TYP. ATTACH PER LUMBER NOTE 4/S0-B2

HE	HEADER SCHEDULE					
MARK	MEMBER	SUPPORT				
H1	V = (1) 2x10 DF#2 H = (1) 2x8 DF#2	(1) 2x8 TRIMMER				
H2	V = (1) 2x6 DF#2 H = (1) 2x6 DF#2					
H3 V = (1) 2x6 DF#2						
NOTE: REFER TO DETAILS 15, 16, 17 & 18/S3-B2 FOR HEADER FRAMING CONDITIONS.						



01/06/2025 Drwn: Chkd:



BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 .DWG ID -

S2.2-B2





# 801 TON ASHIN Ц Ц **VENA** S C L F RDEN ROAD 425 OHME GARI



BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025

S3-B2



#### STRUCTURAL NOTES:

REFERENCE CODE INTERNATIONAL BUILDING CODE, 2021 - LATEST EDITION REFERS TO CURRENT LOCALLY ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE. DESIGN DATA: SNOW LOADS: GROUND SNOW LOAD, Pc : 57 PSF SNOW EXPOSURE FACTOR, C SNOW LOAD IMPORTANCE FACTOR, I THERMAL FACTOR, CT DESIGN ROOF SNOW LOAD ROOF LOADS: ROOF SNOW LOAD :48 PSF : 20 PSF (INCLUDES 5 PSF SOLAR READINESS) ROOF DEAD LOAD TOTAL 68 PSF RAIN INTENSITY, I :1.0 IN/HR SOLAR READINESS LOADS: SOLAR ZONE LOAD : 5 PSF SOLAR ZONE AREA : ALL ROOF INVERTER ZONE LOAD : 175 PSF INVERTER ZONE AREA : (SEE ARCH.) MEZZANINE LOADS: : 125 PSF MEZZANINE FLOOR LIVE LOAD MEZZANINE FLOOR DEAD LOAD 20 PSF 145 PSF TOTAL WIND DESIGN DATA: WIND DESIGN PROCEDURE : MWFRS DIRECTIONAL PROCEDURE : VULT = 111 MPH (RISK CATEGORY IV BLDG) ULTIMATE DESIGN WIND SPEED EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT, GCPI : 0.18 ENCLOSURE CATEGORY : ENCLOSED SEISMIC DESIGN DATA: SEISMIC IMPORTANCE FACTOR, I **RISK CATEGORY** MAPPED SPECTRAL RESPONSE ACCELERATIONS : S<sub>c</sub>= 0.51: S<sub>1</sub>= 0.17 SITE CLASS D (ASSUMED) SPECTRAL RESPONSE COEFFICIENTS S<sub>DS</sub>= 0.45 S<sub>D1</sub>= 0.28 SEISMIC DESIGN CATEGORY : LIGHT FRAMED WALLS WITH WOOD PANELS BASIC SEISMIC FORCE-RESISTING SYSTEM DESIGN BASE SHEAR 32.2 KIPS SEISMIC RESPONSE COEFFICIENT(S), C<sub>S</sub> : 0.103 RESPONSE MODIFICATION FACTOR(S), R :65 ANALYSIS PROCEDURE USED :EQUIVALENT LATERAL FORCE SOIL PROPERTIES:

APPLY THE FOLLOWING MINIMUM SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.

SPECIAL LOADS : NONE SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE SEE SHEET S1.1.

:1500 PSF

150 PSF/F1

40 PSF/FT

60 PSF/F1

100 PCF

: 0.30

DEFERRED SUBMITTALS AND REQUIRED SHOP DRAWINGS STRUCTURAL STEEL REINFORCING STEEL CONCRETE MIX DESIGN

TRUSSES STRUCTURAL TESTS AND INSPECTIONS:

ALLOWABLE SOIL BEARING PRESSURE

ACTIVE PRESSURE (UNRESTRAINED

ACTIVE PRESSURE (RESTRAINED)

COEFFICIENT OF FRICTION

PASSIVE PRESSURE

SOIL UNIT WEIGHT

STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED AS REQUIRED BY CHAPTER 17, INTERNATIONAL BUILDING CODE, AS REQUIRED BY THE LOCAL BUILDING OFFICIAL AND AS SPECIFICALLY REQUIRED IN THE CONSTRUCTION DOCUMENTS. SEE SHEET S1.1 FOR ADDITIONAL INFORMATION.

#### FOUNDATIONS

MAXIMUM ALLOWABLE SOIL BEARING PRESSURE IS 1500 PSF AS RECOMMENDED BY THE GEOTECHNICAL REPORT DATED SEPTEMBER 21, 2024 PREPARED BY NELSON GEOTECHNICAL ASSOCIATES, INC. REFER TO GEOTECHNICAL REPORT FOR ALL SOIL PREPARATION RECOMMENDATIONS

EXTERIOR FOOTINGS SHALL BEAR 2'-0" MINIMUM (U.N.O.) BELOW NEAREST EXTERIOR FINISH GRADE ON UNDERLYING MEDIUM DENSE NATIVE SOIL MATERIAL PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. STRUCTURAL FILL MATERIAL SHALL BE AS SPECIFIED, PLACED, AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE FOUNDATION SOIL PREPARATION NOTES THIS SHEET. DO NOT BACKFILL RETAINING WALLS FOR 21 DAYS OR UNTIL CONCRETE REACHES DESIGN STRENGTH PER CYLINDER TESTS.

MIXING, PLACING, AND DESIGN OF ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "INTERNATIONAL BUILDING CODE," ACI 318, AND ACI 301. CONCRETE SHALL BE MADE WITH PORTLAND CEMENT ASTM C150 TYPE I OR TYPE II, COARSE AND FINE AGGREGATE ASTM C33, WATER CLEAN AND POTABLE, POZZOLITH OR POZZOLITH POLYHEED ADMIXTURE ASTM C494. COARSE AGGREGATE FOR 6" SLABS SHALL BE 1-1/2" MINUS. COARSE AGGREGATE FOR 4" SLABS SHALL BE 1" MINUS.

THE AMBIENT TEMPERATURE MUST BE 40 DEGREES FAHRENHEIT AND RISING TO PLACE ANY CONCRETE UNLESS IT IS INSULATED OR HEATED TO MAINTAIN AT LEAST 50 DEGREES FAHRENHEIT FOR SEVEN DAYS. CONCRETE CONTAINING "MASTERSET EP 20" AT 60 TO 90 OUNCES PER 100 LBS, OF CEMENT MAY BE PLACED IN AMBIENT TEMPERATURES AS LOW AS 20 DEGREES FAHRENHEIT UNTIL INITIAL SET HAS BEEN REACHED. AMBIENT TEMPERATURES MAY FALL BELOW 20 DEGREES FAHRENHEIT AFTER INITIAL SET HAS BEEN REACHED AND THE HARDENED CONCRETE HAS BEEN SEALED TO PREVENT THE INGRESS OF ADDITIONAL WATER.

RECOMMENDED CURING OF CONCRETE SLABS SHALL CONSIST OF WET CURING WITH BURLAP AND VISQUEEN (OR EQUAL) FOR A PERIOD OF NOT LESS THAN SEVEN DAYS. SLAB SHALL NOT BE ALLOWED TO DRY DURING THIS PERIOD. IF THE CONTRACTOR CHOOSES AN ALTERNATE METHOD OF CURING, CONTRACTOR ASSUMES THE RISK ASSOCIATED WITH THE ALTERNATE METHOD.

#### MATERIALS:

USE	MINIMUM F'C AT 28 DAYS	MAXIMUM SLUMP INCHES <sup>1</sup>	MAXIMUM WATER CEMENT RATIO <sup>2</sup>		
			NON-AIR-ENT	AIR-ENT	SACKS/C.1.
FOOTINGS/ FOUNDATION WALLS	3000	5	.58	-	5
RETAINING WALLS	3000	5	.58	-	5
INTERIOR SLABS ON GRADE	3500	4	.51	-	5-1/2
SLABS ON VAPOR BARRIER	4500	4	.42	-	6
EXTERIOR SLABS ON GRADE	4500	4	-	.45	5-1/2
ALL STRUCTURAL CONCRETE	3000	5	.58	.46	5
SETTING BEARING PLATES	$5000^{4}$	-	-	-	-

NOTE: THESE SUGGESTED RATIOS ARE PRESENTED AS A GUIDELINE FOR BATCH PLANT OPERATOR TO DETERMINE FINAL MIX DESIGN. ALTERNATE MIXES MAY BE UTILIZED WHEN PAST PERFORMANCE OF SAID MIX HAS PROVEN TO MEET REQUIRED STRENGTH AND SERVICEABILITY REQUIREMENTS.

1. MAXIMUM SLUMP SHALL BE SLUMP CORRESPONDING TO MAXIMUM WATER/CEMENT RATIO OR AS INDICATED ABOVE WHICHEVER IS LESS. CONTRACTOR MAY ADD JOB SITE WATER TO THE CONCRETE MIX ONLY IF BATCH TICKET PROVIDES QUANTITY OF WATER (IN GALLONS ALLOWED) SO AS TO NOT EXCEED SPECIFIED CONCRETE WATER/CEMENT RATIO. AT CONTRACTOR'S OPTION, CONTRACTOR MAY USE MASTER BUILDERS INC. ADMIXTURE SYSTEMS TO PRODUCE FLOWABLE CONCRETE. MAXIMUM SLUMP WITH ADMIXTURES SHALL NOT EXCEED EIGHT INCHES. THE WATER/CEMENT RATIO OF THE APPROVED MIXES SHALL BE MAINTAINED OR LOWERED WHEN FLOWABLE CONCRETE IS USED. A MASTER BUILDERS CONCRETE TECHNICIAN SHALL ASSIST IN DETERMINING MIX PROPORTIONS FOR FLOWABLE CONCRETE.

2. ADD TO ALL CONCRETE FLATWORK EXPOSED TO ANY FREEZE/THAW CYCLES. MASTER BUILDERS MASTERAIR AE 90 AIR ENTRAINING AGENT TO ATTAIN 7 PERCENT ENTRAINED AIR, BY VOLUME, CONFORMING TO ASTM C260. AIR CONTENT SHALL BE CROSS CHECKED BY A UNIT WEIGHT OF THE SAME CONCRETE SAMPLE. ADJUST AIR AS REQUIRED TO CONFORM WITH ACI 318 TABLE 19.3.3.1 FOR MAXIMUM AGGREGATE SIZE.

3. SACKS OF CEMENT/CUBIC YARD ARE LISTED AS MINIMUM. ADDITIONAL CEMENT OR ADMIXTURES SHALL BE USED TO ATTAIN MAXIMUM WATER/CEMENT RATIO WHERE REQUIRED

4. FOR BASE PLATE OR EQUIPMENT GROUT USE MASTER BUILDERS MASTERFLOW 928 OR EQUAL. GROUTING MAY BE PERFORMED WITH AMBIENT TEMPERATURES BETWEEN 40 DEGREES FAHRENHEIT AND 100 DEGREES FAHRENHEIT. FOR ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. DYNAMIC BASE PLATE AND EQUIPMENT GROUT USE MASTER BUILDERS MASTERFLOW 885.

#### VAPOR BARRIE VAPOR BARRIER SHALL CONFORM TO ASTM E1745 CLASS A OR ASTM E1993 WITH A PERMEANCE OF 0.01 PERMS OR LESS AND SHALL NOT BE POLYETHYLENE BASED, VAPOR BARRIER SHALL BE 15-MIL STEGO WRAP VAPOR BARRIER BY STEGO INDUSTRIES OR PRECON BY W.R. MEADOWS. INSTALL VAPOR BARRIER DIRECTLY UNDER ALL INTERIOR SLABS ON GRADE IN ACCORDANCE WITH ASTM E1643 AND MANUFACTURER RECOMMENDATIONS. EXTEND CONTINUOUS VAPOR BARRIER ALONG SIDEWALLS OF AND UNDER SLAB DEPRESSIONS, LAP JOINTS 6 INCHES MINIMUM AND SEAL WATERTIGHT BY ADHESIVE OR TAPE AS RECOMMENDED BY MANUFACTURER. SEAL ALL PENETRATIONS, BLOCKOUTS, AND MEMBRANE PERIMETER WITH TAPE AND MASTIC AS RECOMMENDED BY MANUFACTURER TO CREATE A CONTINUOUS SEALED BARRIER. REPAIR ALL PUNCTURES OR DAMAGE TO VAPOR BARRIER IMMEDIATELY PRIOR TO CONCRETE POUR IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. BARRIER SHALL NOT BE PUNCTURED DURING PREPARATION, CONCRETE POUR, OR FINISH WORK.

#### REINFORCING STEEI

REINFORCING STEEL SHALL BE OF NEW BILLET STOCK ASTM A615-90, GRADE 60, FY=60,000 PSI EXCEPT #3 BARS SHALL BE GRADE 40. WELDABLE REINFORCING STEEL SHALL BE ASTM A706, GRADE 60-W. WELDED WIRE REINFORCEMENT (WWR) SHALL BE ASTM A1064. 4 X 4 - W2.9 X W2.9 SMOOTH WIRE, REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 DOUBLE ANNEALED IRON WIRE. REINFORCING STEEL AND WELDED WIRE REINFORCEMENT SHALL BE SUPPORTED ON WELL CURED CONCRETE BLOCKS OR CHAIRS. IN BEAMS AND STRUCTURAL SLABS, REINFORCING SHALL BE SUPPORTED ON CHAIRS. ALTERNATE HOOK DIRECTION AT ALL TIES AND STIRRUPS. REINFORCING STEEL SHALL BE DETAILED BY AN EXPERIENCED DETAILER IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE," EXCEPT AS SHOWN. SEE 1 & 2/- FOR REBAR FABRICATION DETAILS. SHOP DRAWINGS INCLUDING PLACING PLANS SHALL BE SUBMITTED (IF REQUESTED) FOR REVIEW PRIOR TO FABRICATION. ALL LAP SPLICES SHALL BE "CLASS B" SPLICES WITH A MINIMUM LAP LENGTH OF 45 BAR DIAMETERS FOR #6 AND SMALLER BARS, AND 58 BAR DIAMETERS FOR #7 AND #8 BARS. MECHANICAL SPLICING OF BARS SHALL UTILIZE MECHANICAL COUPLERS THAT DEVELOP A MINIMUM OF 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING BAR. COUPLERS SHALL CONFORM TO ACI 318 AND AASHTO REQUIREMENTS. CONTRACTOR SHALL SUBMIT MECHANICAL COUPLER PRODUCT INFORMATION FOR REVIEW PRIOR TO CONSTRUCTION. SPLICES AT BEAMS, COLUMNS, STRUCTURAL SLABS, AND WALLS SHALL NOT BE PERMITTED EXCEPT AS SHOWN ON THE CONSTRUCTION DOCUMENTS. LAP ADJOINING PIECES OF WELDED WIRE REINFORCEMENT (SIDES AND ENDS) AT LEAST 12" OR ONE FULL MESH SPACING PLUS 2", WHICHEVER IS GREATER. OFFSET END LAPS IN ADJACENT WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION.

REINFORCING SHALL BE WITHIN 1/2" TOLERANCE OF CLEAR DISTANCE SHOWN ON CONSTRUCTION DOCUMENTS. WET-SETTING OF REINFORCING STEEL IS NOT ACCEPTABLE.

CONCRETE COVER FOR REINFORCING PLACEMENT SHALL BE

3" FOR CONCRETE POURED AGAINST EARTH; 2" FOR FORMED CONCRETE WITH EARTH BACKFILL 1-1/2" FOR THE OUTSIDE FACE OF WALLS EXPOSED TO WEATHER; 1-1/2" FOR SLABS ON MOISTURE BARRIER.

WALLS: THICKNESS HORIZONTA **REINFORCING (GRADE 60)** 6" WALL & UNDER #4 AT 16" O.C. 0"\\//11

8" V	WALL #5	AT 18" O.C.
10" V	WALL #4	AT 18" E.F.
12" V	WALL #4	AT 16" E.F.
ALL OTHE	R WALLS .	12 OF 1%
PROVIDE #3 HAIRPIN BARS WITH 12" LEGS AT 6" C	D.C. (MINIMUM) AT HEAD	OF ALL OF

EXTENDING 25" (MINIMUM) BEYOND CORNERS AT TOP, BOTTOM, AND EACH SIDE OF OPENING. USE (2) #5x4'-0" DIAGONAL AT EACH CORNER EXCEPT FOR 6" WALLS USE (1) #5 DIAGONAL AT EACH CORNER. AT WALL CORNERS AND INTERSECTIONS, EXTEND HORIZONTAL WALL REINFORCING TO 2" FROM OUTSIDE FACE AND LAP WITH ELBOW BARS OF SAME SIZE AND SPACING. LAP OUTSIDE FACE ONLY AT CORNERS. WALL STUBS SHALL BE SAME SIZE AND SPACING AS VERTICAL STEEL.

THE CONTRACTOR SHALL EPOXY GROUT BARS (REBAR, DOWELS, AND THREADED RODS) TO THE DEPTH IN EXISTING CONCRETE OR MASONRY AS INDICATED IN THE PLANS. HOLE DIAMETER SHALL BE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. EPOXY GROUT FOR EXISTING CONCRETE SHALL BE SIMPSON "SET-XP", HILTI "HIT-HY 200", OR APPROVED EQUAL. EPOXY GROUT FOR EXISTING CONCRETE MASONRY SHALL BE SIMPSON "SET-XP", HILTI "HIT-HY270", OR APPROVED EQUAL. DUST AND DEBRIS FROM THE DRILLING OPERATION SHALL BE CLEANED AND BLOWN FREE FROM THE HOLE PRIOR TO THE PLACEMENT OF THE EPOXY. EPOXY GROUT SHALL BE MIXED AND PLACED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. BARS SHALL BE INSERTED INTO THE HOLE WITHIN THE MANUFACTURER'S RECOMMENDED TIME PERIOD. ANY BARS WHICH ARE NOT SECURELY GROUTED SHALL BE REPLACED WITH PROPERLY GROUTED BARS.

THE INSTALLATION AND INSPECTION REQUIREMENTS OF ACI 318-14 SECTIONS 17.8.2.2, 17.8.2.3 AND 17.8.2.4 (WHICH LIST REQUIREMENTS FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR VERTICALLY) SHALL APPLY TO VERTICALLY DOWNWARD PLACED ANCHORS. ALL INSTALLERS AND THE SPECIAL INSPECTOR MUST BE TRAINED BY THE EPOXY MANUFACTURER FOR INSTALLATION OF DEEPLY EMBEDDED ADHESIVE ANCHORS USING THE HILTI PISTON PLUG DELIVERY SYSTEM AND INSTALLED TO RESIST SUSTAINED TENSION LOADS. CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH TABLE 1705.3 OF THE 2015 IBC SHALL BE PROVIDED TO ASSURE HOLE PREPARATION AND EPOXY INSTALLATION IS ACCOMPLISHED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

STRUCTURAL TIMBER AND LUMBER SHALL BE SURFACED KILN DRIED STRESS GRADE DOUGLAS FIR - LARCH AS FOLLOWS: TIMBER STRESS GRADE

4x AND 3x EXTERIOR AND BEARING STUD WALLS ROOF JOIST, FLOOR JOIST INTERIOR STUDS AT NON-BEARING WALLS TOP & BOTTOM PLATES AT BEARING WALLS ALL OTHER LUMBER

NO. 1 NO. 2 NO. 2 NO. 2 STANDARD NO. 2 STANDARD/BETTER

NO END SPLITS SHALL BE ALLOWED IN STRUCTURAL MEMBERS. SOLID BLOCKING OF NOT LESS THAN 2" NOMINAL THICKNESS SHALL BE PROVIDED AT ENDS AND AT ALL SUPPORTS OF JOISTS AND RAFTERS. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS AND NAILING SHALL BE AS PER 2304 10 1 OF THE LATEST EDITION OF THE "INTERNATIONAL BUILDING CODE." ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH A WASHER.

WOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE TREATED WITH AN APPROVED PRESERVATIVE. WOOD BEARING ON OR INSTALLED WITHIN 1" OF CONCRETE SHALL BE TREATED WITH AN APPROVED PRESERVATIVE OR SHALL BE SEPARATED FROM THE CONCRETE BY 30# (MINIMUM) BUILDING PAPER. IF PRESSURE TREATED LUMBER IS USED. CONTRACTOR SHALL ENSURE THAT ALL STEEL IN CONTACT WITH PRESSURE TREATED WOOD IS CORROSION PROTECTED PRESSURE TREATED LUMBER SHALL MATCH THE SPECIES AND GRADE IN THE TABLE ABOVE. HEMFIR BOTTOM PLATES WILL BE REJECTED. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

TYPICAL SILL BOLTS AT NON SHEAR WALLS SHALL BE 5/8" DIAMETER AT 6'-0" O.C.; EMBED 7". PLATE WASHERS A MINIMUM OF 3" BY 3" BY 0.229 THICK OR SIMPSON "BPS" BEARING PLATES SHALL BE USED ON EACH SILL BOLT AT SHEAR WALLS. ALL EXTERIOR WALLS SHALL BE SW6 UNLESS NOTED OTHERWISE. NAILERS TO STEEL BEAMS SHALL BE ATTACHED WITH 5/8" DIAMETER BOLTS AT 3'-0" O.C., STAGGER EACH SIDE OF WEB. ALL LAG SCREWS SHALL BE PLACED IN PRE-DRILLED HOLES. HOLE FOR UNTHREADED SHANK SHALL BE SAME DIAMETER AS SHANK WITH DEPTH EQUAL TO SHANK PENETRATION. LEAD HOLE FOR THREADED PORTION SHALL BE ONE HALF THE DIAMETER OF THE SHANK DIAMETER. USE WOOD ADHESIVE AS

BETWEEN SUPPORTS PROVIDE BLOCKING OR BRIDGING AT 8'-0" O.C. FOR FLOOR JOISTS, 10'-0" O.C. FOR ROOF JOISTS. CUTTING AND NOTCHING OF STRUCTURAL MEMBERS IS NOT ALLOWED. A MAXIMUM 1" DIAMETER HOLE MAY BE DRILLED IN THE CENTER THIRD OF THE MEMBER DEPTH WITHIN THE CENTER THIRD OF THE MEMBER SPAN, ALL OTHER HOLES SHALL BE APPROVED BY THE ENGINEER. MAKE ALL BEARINGS FULL, UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION DOCUMENTS. FINISH ALL BEARING SURFACES ON WHICH STRUCTURAL MEMBERS ARE TO REST SO AS TO GIVE SURE AND EVEN SUPPORT.

WHERE FRAMING MEMBERS SLOPE, CUT OR NOTCH THE ENDS AS REQUIRED TO GIVE UNIFORM BEARING SURFACE. POST BUNDLES, ENDS AND BASES SHALL BE INSTALLED FLUSH AGAINST WOOD PLATES. ALL FRAMING SHALL BE DONE BY QUALIFIED INDIVIDUALS IN ACCORDANCE WITH GOOD CONSTRUCTION STANDARDS AND PRACTICE.

#### STRUCTURAL GLU-LAMINATED LUMBER STRUCTURAL GLU-LAMINATED LUMBER SHALL BE FABRICATED TO THE REQUIREMENTS OF ANSI A190.1. LUMBER SHALL BE

VISUALLY GRADED WESTERN SPECIES, COMBINATION 24F-V4 DF/DF FOR SIMPLE BEAMS, 24F-V8 DF/DF FOR CANTILEVER BEAMS, COMBINATION 2 FOR COLUMNS, AND COMBINATION 5 FOR TRUSS MEMBERS, PER TABLE 5A AND 5B 2018 NDS SUPPLEMENT. CAMBER SIMPLE BEAMS WITH SPAN 10' OR GREATER TO 2,000' RADIUS UNLESS NOTED OTHERWISE. LAMINATED MEMBERS SHALL BE AITC CERTIFIED. USE WATERPROOF GLUE.

#### LAMINATED VENEER LUMBER LVL:

INSTALLATION, AND ANCHORAGE SHALL BE MANUFACTURER'S STANDARD. CONNECTION OF MULTIPLE MEMBERS SHALL BE AS RECOMMENDED BY THE MANUFACTURER. ALL LVL MATERIAL SHALL BE MINIMUM 2.0E, 2600 FB.

FRAMING MEMBERS SHOWN ON CONSTRUCTION DOCUMENTS AS "LVL STUD" SHALL BE REDLAM AS MANUFACTURED BY REDBUILT, LLC, OR EQUAL. ERECTION, INSTALLATION, AND ANCHORAGE SHALL BE MANUFACTURER'S STANDARD. CONNECTION OF MULTIPLE MEMBERS SHALL BE AS RECOMMENDED BY THE MANUFACTURER. ALL LVL STUD MATERIAL SHALL BE MINIMUM 2.0E, 2750 FB, 2635 FC, REDLAM

#### WOOD FRAMING HARDWARE

REDLAM LVL STUDS

ALL WOOD FRAMING HARDWARE AND ACCESSORIES SHALL BE SIMPSON OR EQUAL UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS. HARDWARE AND ACCESSORIES SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. INSTALL HARDWARE WITH MAXIMUM NUMBER OF FASTENERS UNLESS NOTED OTHERWISE. FASTENERS AND HANGERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED

VERTICAL #4 AT 18" O.C. #5 AT 18" O.C. #4 AT 18" E.F. #4 AT 18" O.C. .12 OF 1%

PENINGS. PROVIDE 2-#5 EXTRA BARS

FRAMING MEMBERS SHOWN ON CONSTRUCTION DOCUMENTS AS "LVL" SHALL BE LAMINATED VENEER LUMBER. ERECTION,

I. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE 2021 EDITION. PLYWOOD ROOF AND WALL SHEATHING SHALL BE APA C-D EXPOSURE 1 PER IBC SECTION 2304 UNLESS NOTED OTHERWISE. PLYWOOD FLOOR SHEATHING SHALL BE T & G APA STURD-I-FLOOR EXPOSURE 1. WOOD STRUCTURAL

MAXIMUM NAIL SPACING SHALL BE 6" O.C. AT ALL SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS NAILS SHALL BE 10d COMMON FOR SHEATHING. STAGGER END LAPS AT ROOF AND FLOOR SHEATHING. ALL PANEL EDGES SHALL BE BLOCKED AT PLYWOOD SHEATHED WALLS AND AS INDICATED ON PLANS FOR ROOF AND FLOOR SHEATHING. SUPPORT SHALL BE SUPPLIED TO ALL PLYWOOD EDGES WITH PLYCLIPS, BLOCKING, TONGUE AND GROOVE PLYWOOD JOINTS OR OTHER APPROVED METHODS PER APA RECOMMENDATION. PLYCLIPS ARE NOT ALLOWED FOR FLOOR SHEATHING.

PANELS OTHER THAN PLYWOOD AND CONFORMING TO IBC SECTION 2304 MAY BE SUBSTITUTED WHERE PLYWOOD IS

SPECIFIED. WOOD STRUCTURAL PANELS SHALL CONFORM TO UNITED STATES VOLUNTARY PRODUCT STANDARD PS2-18.

OSB/PLYWOOD WEB JOISTS: JOISTS SHOWN ON PLANS AS "RED-I" SHALL BE MANUFACTURED BY "REDBUILT, LLC" OR APPROVED EQUAL. ERECTION, ANCHORAGE, AND BRIDGING SHALL BE MANUFACTURER'S STANDARD. JOIST ASSEMBLY SHALL BE TESTED AND APPROVED UNDER IBC TESTING PROCEDURES. COMPLETE JOIST DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS PERMITTED AND SUBMITTED (IF REQUESTED) FOR REVIEW PRIOR TO FABRICATION. JOIST MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS SUCH AS BLOCKING, BRIDGING, ETC. REQUIRED FOR A NORMAL AND COMPLETE INSTALLATION OF THE JOISTS. JOIST FLANGES SHALL BE LVL. ALTERNATE JOIST OR TRUSS SYSTEM SHALL BE TESTED, AND THE RESULTS OF LOAD TESTS ON COMPONENT PARTS AND FULL SCALE TESTS

ON JOISTS AS WELL AS AN ANALYSIS OF TEST RESULTS SHALL BE SUBMITTED (IF REQUESTED) FOR REVIEW.

PRE-ENGINEERED WOOD TRUSSE

TEMPORARY SHORING

WOOD TRUSSES SHALL BE PRE-MANUFACTURED TRUSSES, ENGINEERED FOR THE LOADS AS INDICATED ABOVE AND MANUFACTURED IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE, SECTION 2304, AND THE LATEST EDITION OF AF & PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND ANSI/TPI 1. ERECTION, ANCHORAGE, AND BRIDGING SHALL BE PER MANUFACTURER'S STANDARD. CHORDS AND WEBS SHALL BE STRESS GRADE LUMBER. WEB MEMBERS SHALL BE CONNECTED TO CHORDS WITH LIGHT GAGE STEEL GUSSET PLATES. COMPLETE TRUSS DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS PERMITTED AND SHALL BE SUBMITTED (IF REQUESTED) FOR REVIEW PRIOR TO FABRICATION. TRUSS MANUFACTURER SHALL SPECIFY AND PROVIDE ALL SPECIALTY ITEMS SUCH AS BLOCKING. BRIDGING. TRUSS TO TRUSS CONNECTIONS. TRUSS TO BEAM CONNECTIONS, ETC. REQUIRED FOR A NORMAL AND COMPLETE INSTALLATION OF THE TRUSSES. ROOF OVERBUILD FRAMING SHALL BE BY TRUSS MANUFACTURER. HANDLING, INSTALLATION, AND BRACING SHALL BE IN ACCORDANCE WITH ABOVE REFERENCED STANDARDS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NON-BEARING WALLS SHALL BE HELD AWAY FROM THE TRUSS BOTTOM CHORD WITH AN APPROVED FASTENER (SUCH AS SIMPSON STC) TO ENSURE THAT THE TRUSS BOTTOM CHORD WILL NOT BEAR ON THE WALL.

HE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING DURING CONSTRUCTION TO ENSURE THAT THE EXISTING STRUCTURE IS STABLE UNTIL THE NEW CONSTRUCTION WORK IS COMPLETE. IF NECESSARY, THE CONTRACTOR SHALL CONSULT A SPECIALTY STRUCTURAL ENGINEER, LICENSED IN THE STATE OF WORK, FOR DESIGN ASSISTANCE PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING MEANS AND METHODS REQUIREMENTS, AS WELL AS OSHA REGULATIONS FOR THE PROJECT CONSTRUCTION.

### **GENERAL NOTES:**

- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE MORE STRINGENT TO GOVERN DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES. THESE DISCREPANCIES SHALL BE BROUGHT TO THE CONSULTANT'S ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
- 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS AND EXISTING CONDITIONS MUST BE VERIFIED AND/OR DETERMINED IN THE FIELD.
- 4. THE CONSTRUCTION DOCUMENTS MAY NOT SHOW SOME OBSTRUCTIONS. CONTRACTORS ARE TO CAREFULLY INSPECT THE EXISTING FACILITIES BEFORE PREPARING THEIR PROPOSAL AND BEFORE PROCEEDING WITH THE WORK. EVEN THOUGH NOT SHOWN OR SPECIFICALLY MENTIONED, THE REMOVAL AND REPLACEMENT OF MINOR OBSTRUCTIONS SHOULD BE ANTICIPATED AND ACCOMPLISHED.
- CONSTRUCTION DOCUMENTS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON CONSTRUCTION DOCUMENTS, WHICH MAY AFFECT INTENT OF DESIGN OR PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO CONSULTANT'S ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
- 6. CONSTRUCTION DOCUMENTS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION AND ARE NOT INTENDED TO SHOW EVERY DETAIL OR CONDITION OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY AS INDICATED BUT ARE SIMILAR CHARACTER TO THE DETAILS SHOWN. SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL. THE CONSULTANT ASSUMES NO LIABILITY OR RESPONSIBILITY FOR ERRORS OR CONFLICTS WHICH MAY OCCUR BECAUSE OF THE CONSULTANT'S EXCLUSION FROM PARTICIPATION IN THE ACTUAL CONSTRUCTION PHASE OF THE PROJECT.
- 7. THE CONSTRUCTION SITE MAY HAVE LIMITED ACCESS. THE CONTRACTOR SHOULD INSPECT THE SITE AND MAKE THEIR OWN DETERMINATION REGARDING ACCESS.
- 8. CONTRACTOR SHALL COORDINATE WORK WITH OWNER TO MINIMIZE INTERFERENCE WITH THE OWNER'S NORMAL OPERATIONS. ACCESS TO THE EXISTING FACILITIES WILL BE REQUIRED AT ALL
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE REQUIRED SAFETY PRECAUTIONS AND THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- 10. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING UTILITIES WHICH MAY BE PRESENT AND ARE NOT SCHEDULED OR REQUIRED TO BE CHANGED.
- 11. THE CONTRACTOR SHALL EMPLOY SAFE EXCAVATION PRACTICES IN ACCORDANCE WITH STATE SAFETY REQUIREMENTS AND OSHA SAFETY AND HEALTH STANDARDS FOR CONSTRUCTION
- 12. CONSULTANT SHALL BE INFORMED IMMEDIATELY OF ANY DISCREPANCY BETWEEN CONSTRUCTION DOCUMENTS AND SITE CONDITIONS THAT CAUSE SPECIFIED DESIGN OR MATERIALS TO BE MODIFIED OR REVISED.
- 13. FINISHED SURFACES AT SAWCUTS SHALL BE STRAIGHT, TRUE, AND PLUMB.
- 14. ELEVATIONS ARE BASED ON DATUM ESTABLISHED AT THE PROJECT SITE AND ARE USED FOR REFERENCE PURPOSES. CONTRACTOR SHALL ESTABLISH HIS OWN CONSTRUCTION SURVEY TO DETERMINE FINAL ELEVATIONS BOTH NEW AND EXISTING. ALL FINISH GRADES TO PROVIDE CONSTANT SLOPE AND SMOOTH TRANSITION BETWEEN DIFFERING ELEVATIONS.
- 15. PLANS, SECTIONS, DETAILS, AND OTHER INFORMATION SHOWING NEW CONSTRUCTION IN COMBINATION WITH EXISTING CONDITIONS HAVE BEEN PREPARED UTILIZING ASSUMED EXISTING CONDITIONS. IT SHOULD BE UNDERSTOOD THAT SOME MODIFICATION OF THE DETAILS SHOWN MAY BE NECESSARY IN ORDER TO PROPERLY ACHIEVE A FINISHED PRODUCT. PROPOSED MODIFICATIONS SHALL BE REVIEWED BY CONSULTANT AND OWNER PRIOR TO FINAL INSTALLATION.
- 16. REINFORCING SHALL BE WITHIN 1/2" TOLERANCE OF CLEAR DISTANCE SHOWN ON CONSTRUCTION DOCUMENTS. WET-SETTING OF REINFORCING STEEL AND ANCHOR BOLTS IS NOT ACCEPTABLE.
- 17. IF DUE TO THE ENGINEER'S OR OTHER CONSULTANT'S ERROR, ANY REQUIRED ITEM OR COMPONENT IS OMITTED FROM THE CONSTRUCTION DOCUMENTS, THE ENGINEER SHALL NOT BE RESPONSIBLE FOR PAYING THE COSTS TO ADD SUCH ITEM OR COMPONENT TO THE EXTENT THAT SUCH ITEM OR COMPONENT WOULD HAVE BEEN OTHERWISE NECESSARY TO THE PROJECT OR OTHERWISE ADDS VALUE OR BETTERMENT TO THE PROJECT. IN NO EVENT WILL THE ENGINEER BE RESPONSIBLE FOR ANY COST OR EXPENSE THAT PROVIDES BETTERMENT, UPGRADE, OR ENHANCEMENT OF THE PROJECT
- 18 SHOP DRAWINGS OR OTHER SUBMITTALS REVIEWED BY THE ENGINEER DO NOT BECOME CONTRACT DOCUMENTS AND DO NOT CONSTITUTE CHANGE ORDERS. THE PURPOSE OF SUBMITTAL REVIEW IS TO ESTABLISH A REPORTING PROCEDURE AND IS INTENDED FOR CONTRACTOR'S CONVENIENCE IN ORGANIZING THE WORK AND TO ALLOW THE ENGINEER TO MONITOR CONTRACTOR'S PROGRESS AND UNDERSTANDING OF THE DESIGN. DELAYS CAUSED BY THE NEED FOR RESUBMITTAL ARE NOT THE RESPONSIBILITY OF THE ENGINEER.
- 19. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND RISK FOR MISFITS DUE TO ANY ERROR IN CONTRACTOR SUBMITTAL DRAWINGS REGARDLESS OF ENGINEER'S SUBMITTAL REVIEW ANY FABRICATION OR OTHER WORK PERFORMED IN ADVANCE OF THE RECEIPT OF SUBMITTAL REVIEW COMMENTS SHALL BE ENTIRELY AT CONTRACTOR'S RISK.
- 20. THIS DESIGN IS SITE SPECIFIC FOR ONE-TIME USE AND MAY NOT BE REPRODUCED OR RE-USED.
- 21. SEE STRUCTURAL NOTES (THIS SHEET) AND PLAN NOTES FOR ADDITIONAL INFORMATION.











(FOR ALL BAR ARRANGEMENTS)







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Associates

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Drwn: AS

Chkd: RH

	1. THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV.	WINDFORCE-RESISTING SYSTEM, WHERE THE FASTENER		
	2. THE HEIGHT OF THE STRUCTURE IS GREATER THAN 75 (22860 MM) FEET ABOVE THE BASE AS DEFINED IN ASCE7	CENTER.		
	3. THE STRUCTURE IS ASSIGNED TO SEISMIC DESIGN CATEGORY E, IS CLASSIFIED AS RISK CATEGORY I OR II IN ACCORDANCE WITH TABLE	2. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	1	
SEISMIC	SYSTEMS AND SEISMIC FORCE – RESISTING SYSTEMS THAT ARE REQUIRED TO HAVE STRUCTURAL OBSERVATION:	A. WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM		
2.	NONE	B. SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS,		
STRUCT	URAL OBSERVATION FOR WIND REQUIREMENTS:	COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.		
	1. VULT IS 130 MPH OR GREATER AND THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV.			
/AIN WI	ND-FORCE-RESISTING SYSTEMS AND COMPONENTS AND CLADDING THAT ARE REQUIRED TO HAVE STRUCTURAL OBSERVATION:	DIAPHRAGMS, INCLUDING SCREWING, BOLTING, ANCHORING,		
	NONE	AND OTHER FASTENING TO COMPONENTS OF THE WINDFORCE		
<u>.</u>		HOLD-DOWNS WHERE EITHER OF THE FOLLOWING APPLIES:		
		1. THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD.		
GENERA	IL STRUCTURAL OBSERVATION:	2. THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL		
	1. THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY IV.	OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF		
	2. STRUCTURE IS A BUILDING WITH AN OCCUPIED FLOOR LOCATED MORE THAN 75 FEET ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS.	THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.		
	3 WHEN SO DESIGNATED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR THE STRUCTURAL DESIGN	A ROOF CLADDING, ROOF DECK AND ROOF FRAMING		
	WHEN SUCH OBSERVATION IS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL	CONNECTIONS.		
STRUCT	URAL SYSTEMS AND COMPONENTS AND CLADDING THAT ARE REQUIRED TO HAVE STRUCTURAL OBSERVATION:	B. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	$\checkmark$	
	NONE		-	
		EXCEPTION: SPECIAL INSPECTION FOR WIND RESISTANCE REQUI	RED FOR STRUCT	URES IN:

4. PROVIDE STRUCTURAL OBSERVATION PER IBC SECTION 1704.6 IF REQUIRED (IF ANY OF THE FOLLOWING ARE CHECKED "YES", THEN STRUCTURAL OBSERVATION IS REQUIRED):

STRUCTURE ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F AND ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST

# 3. REVIEW THE SPECIAL INSPECTION REPORTS AND PROVIDE CORRECTIVE ACTION FOR WORK THAT MAY NOT CONFORM TO THE APPROVED PLANS.

2. PREPARE THE STATEMENT OF SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1704.3.1 AND IDENTIFY STRUCTURAL TESTING FOR SEISMIC RESISTANCE PER IBC SECTION 1705.12 (WHEN REQUIRED). THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY ITEMS FABRICATED ON THE PREMISES OF AN APPROVED FABRICATOR WHERE SPECIAL INSPECTIONS ARE NOT REQUIRED BY SECTION 1704.2.5.1.

REQUIREMENTS AND SPECIFICATIONS ON THE PLANS.

1. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (ENGINEER OR ARCHITECT), SHALL INCLUDE SPECIAL INSPECTION

REPORTS AND THE FINAL SPECIAL INSPECTION REPORT, HAVE BEEN SUBMITTED AND ACCEPTED. E. REGISTERED DESIGN PROFESSIONAL RESPONSIBILITIES

4. ISSUE CERTIFICATE OF OCCUPANCY: THE BUILDING DEPARTMENT WILL ONLY ISSUE A CERTIFICATE OF OCCUPANCY AFTER ALL SPECIAL INSPECTION

3. MONITOR SPECIAL INSPECTIONS: WORK REQUIRING SPECIAL INSPECTIONS, AND THE PERFORMANCE OF SPECIAL INSPECTORS, SHALL BE MONITORED BY THE BUILDING DEPARTMENT INSPECTOR. JURISDICTIONAL APPROVAL MUST BE OBTAINED PRIOR TO PLACEMENT OF CONCRETE OR OTHER SIMILAR ACTIVITIES IN ADDITION TO THAT OF THE SPECIAL INSPECTOR.

2. REVIEW SPECIAL INSPECTIONS: THE BUILDING DEPARTMENT SHALL REVIEW ALL SPECIAL INSPECTORS AND SPECIAL INSPECTION REQUIREMENTS.

1. TO VERIFY COMPLIANCE: THE JURISDICTION IS REQUIRED TO APPROVE EACH SPECIAL INSPECTOR BASED ON SUBMITTED QUALIFICATIONS, TO OVERSEE THE IMPLEMENTATION OF STRUCTURAL TESTS AND SPECIAL INSPECTION REQUIREMENTS FOUND IN IBC CHAPTER 17.

6. NOTIFY JURISDICTION OF SPECIAL INSPECTIONS PRIOR TO SCHEDULED INSPECTION TIME. D. JURISDICTION'S RESPONSIBILITIES

STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE

SPECIAL INSPECTOR, AND PROVIDE THESE RECORDS FOR REVIEW BY THE BUILDING DEPARTMENT INSPECTOR UPON REQUEST.

5. RETAINING SPECIAL INSPECTION REPORTS AT THE JOB SITE: RETAIN AT THE JOB SITE ALL SPECIAL INSPECTION RECORDS SUBMITTED BY THE

4. PROVIDE ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE REASONABLE ACCESS TO ALL WORK REQUIRING SPECIAL INSPECTION.

3. PROVIDE ACCESS TO JURISDICTION APPROVED PLANS: THE APPROVED PLANS SHALL BE READILY ACCESSIBLE AT THE JOB SITE.

INSPECTIONS. THIS STATEMENT BY THE CONTRACTOR IS SEPARATE FROM THE STATEMENT OF SPECIAL INSPECTIONS. IT IS THE CONTRACTOR'S ACKNOWLEDGEMENT OF THE SPECIAL INSPECTIONS OR TESTING THAT ARE BEYOND WHAT IS TYPICALLY REQUIRED.

PERSONNEL TO PERFORM REQUIRED INSPECTIONS. 2. PROVIDE WRITTEN STATEMENT OF RESPONSIBILITY: THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT OF RESPONSIBILITY AS REQUIRED IN SECTION 1704.4 FOR CONSTRUCTION DESIGNATED MAIN-WIND OR SEISMIC FORCE RESISTING SYSTEM. THE STATEMENT OF CONTRACTOR RESPONSIBILITY IS REQUIRED WHEREVER THE STATEMENT OF SPECIAL INSPECTIONS INCLUDE ADDITIONAL WIND- OR SEISMIC-RESISTANCE

1. NOTIFY THE AGENCY: THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE INSPECTION AGENCY IN SUFFICIENT TIME FOR SCHEDULING

SPECIFICALLY ITEMIZED IN THIS REPORT. C. CONTRACTOR'S RESPONSIBILITIES

WEEKLY REPORT MAY BE A COMPILATION OF DAILY REPORTS. 5. PREPARE FINAL REPORT: THE INSPECTION AGENCY SHALL PREPARE A FINAL SIGNED REPORT TO THE BUILDING DEPARTMENT STATING THAT ALL ITEMS REQUIRING SPECIAL INSPECTIONS AND TESTING WERE FULFILLED, ALL DISCREPANCIES WERE CORRECTED OR RESOLVED, AND ALL WORK REQUIRING SPECIAL INSPECTIONS IS IN CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. ANY ITEMS UNRESOLVED OR DISCREPANCIES IN COVERAGE (I.E., MISSED INSPECTIONS, PERIODIC INSPECTIONS WHEN CONTINUOUS WAS REQUIRED, ETC.) SHALL BE

INSPECTORS. 4. FURNISH WEEKLY REPORTS: THE INSPECTION AGENCY SHALL FURNISH WEEKLY REPORTS OF THE TESTS AND INSPECTIONS PERFORMED DIRECTLY TO THE BUILDING DEPARTMENT, REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, ARCHITECT, AND/OR OTHERS AS DESIGNATED.

iv. INCLUDE HOW ITEMS WERE RESOLVED OR UNRESOLVED. v. LIST ANY CHANGES OR CORRECTIONS TO NON-CONFORMING ISSUES AUTHORIZED BY THE ENGINEER, ARCHITECT, OR JURISDICTION'S BUILDING

iii. LISTING ANY NON-CONFORMING ITEMS.

ii. DESCRIPTION OF THE INSPECTIONS, WITH LOCATIONS AND TESTS PERFORMED.

REMAIN AT THE JOB SITE WITH THE CONTRACTOR FOR THE BUILDING DEPARTMENT'S INSPECTOR. THE REPORTS SHALL INCLUDE THE FOLLOWING: i. NAME OF SPECIAL INSPECTOR, DATE, TIME, TEMPERATURE, AND WEATHER CONDITIONS.

AND NOTE ALL SUCH ITEMS IN THE DAILY REPORT. IF ANY ITEM IS NOT RESOLVED IN A TIMELY MANNER AND IS ABOUT TO BE INCORPORATED IN THE WORK, THE SPECIAL INSPECTOR SHALL IMMEDIATELY NOTIFY THE JURISDICTION, THE ENGINEER AND ARCHITECT. 3. FURNISH DAILY REPORTS: THE SPECIAL INSPECTOR SHALL COMPLETE A DAILY REPORT FOR EACH DAY'S INSPECTIONS. THE DAILY REPORTS SHALL

2. REPORT NON-CONFORMING ITEMS: THE INSPECTOR SHALL BRING NON-CONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR,

SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

ii. PERIODIC SPECIAL INSPECTION - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED

. CONTINUOUS SPECIAL INSPECTION - THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL

1. OBSERVE THE WORK: THE INSPECTOR SHALL OBSERVE THE WORK FOR COMPLIANCE WITH THE JURISDICTION APPROVED PLANS, SPECIFICATIONS, AND APPLICABLE PROVISIONS OF THE IBC. THE ARCHITECT/ENGINEER REVIEWED SHOP DRAWINGS, AND/OR PLACEMENT DRAWINGS, MAY BE USED ONLY AS AN AID TO INSPECTION AND ARE NOT CONTRACT DOCUMENTS. INSPECTIONS ARE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS.

CHARGE OF THE PROJECT. SPECIFIC DUTIES ARE OUTLINED BELOW:

QMC- OR IAS-ACCREDITED INSPECTION

FABRICATOR IS RESPONSIBLE

AGENCY AT THE FABRICATOR'S EXPENSE

RECORDS OF EACH INSPECTION MUST BE SUBMITTED TO THE BUILDING OFFICIAL SO AS TO COMPILE A COMPLETE LEGAL RECORD OF THE PROJECT. THESE RECORDS MUST INCLUDE ALL INSPECTIONS MADE. VIOLATIONS, AND DISCREPANCIES, BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED, A FINAL REPORT MUST BE SUBMITTED INDICATING THAT ALL SPECIAL INSPECTIONS HAVE BEEN MADE AND ALL DISCREPANCIES HAVE BEEN RESOLVED OR REMOVED IN ORDER TO SHOW COMPLIANCE WITH THE APPLICABLE CODE REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SPECIAL INSPECTOR TO DOCUMENT AND SUBMIT INSPECTION RECORDS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE

#### IF THE FABRICATOR FOR YOUR PROJECT IS: APPROVED NOT APPROVED N PROFESSIONAL IS RESPONSIBLE WITH THE QUALIFY SPECIAL INSPECTORS/FIRMS FOR STEEL FABRICATION NOT REQUIRED COST BORNE BY THE OWNER DEVELOP STATEMENT OF SPECIAL INSPECTIONS FOR STEEL DESIGN PROFESSIONAL AT THE OWNER'S EXPENSE NOT REQUIRED APPROVE STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL BUILDING OFFICIAL ON A PROJECT-BY-PROJECT BASIS AT

**RESPONSIBLE PARTY AND/OR CHECK WRITER** 

THE BUILDING CODE AUTHORITY'S EXPENSE

SPECIAL INSPECTOR AT THE OWNER'S EXPENSE

SPECIAL INSPECTOR ON A PROJECT-BY-PROJECT

SPECIAL INSPECTOR AND DESIGN PROFESSIONAL AT

SPECIAL INSPECTOR AND DESIGN PROFESSIONAL AT

BASIS AT THE OWNER'S EXPENSE

WNER'S RISK AND EXPENSE

OWNER'S EXPENS

RELEVANT EXPERIENCE OR TRAINING. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THEY QUALIFY AS SPECIAL INSPECTORS. RESPONSIBILITIES A. OWNER RESPONSIBILITIES 1. THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED ON THIS SHEET. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS PERFORMED BY THE JURISDICTION. EXCEPTION: APPROVED FABRICATORS

FABRICATOR APPROVAL: SPECIAL INSPECTIONS REQUIRED BY SECTION 1705 ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. FOR STEEL CONSTRUCTION, AISC CERTIFIED FABRICATORS SHALL BE CONSIDERED "APPROVED". AT COMPLETION OF FABRICATION. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF

COMPLIANCE TO THE OWNER OR OWNER'S AUTHORIZED AGENT STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL WORK COMPLETED IN THE FIELD OR BY A FABRICATOR WHICH IS NOT APPROVED SHALL BE INSPECTED ACCORDING TO

THE REQUIREMENTS OF THIS SHEET. THE FOLLOWING TABLE SUMMARIZES THE EXCEPTION FOR APPROVED FABRICATORS.

NOT REQUIRED

IBC, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, IS REQUIRED TO EMPLOY ONE

OR MORE APPROVED AGENCIES TO PERFORM REQUIRED INSPECTIONS. THE PERMIT APPLICANT IS RESPONSIBLE FOR HIRING THE SPECIAL INSPECTOR

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION OR TESTING ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND

TATEMENT OF SPECIAL INSPECTIONS

AND MUST INCUR ALL ASSOCIATED COSTS.

QUALIFICATIONS OF SPECIAL INSPECTOR

IBC REQUIREMENT PER CHAPTER 17

DEVELOP CRITERIA, PREPARE AUDIT PLAN, SELECT AUDITORS,

IDENTIFY AND RESOLVE DISCREPANCIES WITH APPROVED

CONDUCT SPECIAL INSPECTIONS FOR STEEL FABRICATION AND NOT REQUIRED

SUBMIT CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL FABRICATOR IS RESPONSIBLE

INSPECTORS/FIRMS FOR STEEL FABRICATION

AND PERIODICALLY VERIFY FABRICATOR QUALITY

PREPARE REPORTS

MANAGEMENT SYSTEM

CONSTRUCTION DOCUMENTS

B. DUTIES OF THE SPECIAL INSPECTOR

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS WOOD CONSTRUCTION - IBC SECTION 1705.5 THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED FOR STRUCTURAL ITEMS ONLY, AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND TESTING REQUIREMENTS OF THE CURRENTLY ADOPTED INTERNATIONAL BUILDING CODE (IBC). IN ACCORDANCE WITH THE

THE FABRICATION PROCESS OF WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES (SUCH PREMISES OF A FABRICATOR'S SHOP MUST HAVE SPE VERIFICATION AND INSPECTION REQUIRED HIGH-LOAD DIAPHRAGMS: (PER IBC 2306.2(2)) A. VERIFY WOOD STRUCTURAL PANEL SHEATHING FOR GRAI AND THICKNESS B. VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES . VERIFY THE NAIL OR STAPLE DIAMETER AND LENGTH. D. VERIFY THE NUMBER OF FASTENER LINES. E. VERIFY THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS. 2. METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 F

R GREATER

A. VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL.

CONCRETE CONSTRUCTION - IBC SECTION 1705.3 VERIFICATION AND INSPECTION REQUIRED CONTI 1. INSPECTION OF REINFORCING STEEL, INCLUDING  $\checkmark$ STRESSING TENDONS. AND VERIFY PLACEMENT INSPECTION OF REINFORCING STEEL WELDING IN CORDANCE WITH IBC TABLE 1705. A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN  $\checkmark$ B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" ; AND  $\checkmark$ C. INSPECT ALL OTHER WELDS  $\checkmark$  $\checkmark$ INSPECTION OF ANCHORS CAST IN CONCRETE . 4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. SEE NOTE 2. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED  $\checkmark$ INSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT  $\checkmark$ EFINED IN 4.A. 5. VERIFY USE OF REQUIRED DESIGN MIX.  $\checkmark$ 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT  $\checkmark$ TESTS, AND DETERMINE THE TEMPERATURE OF THE 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR  $\checkmark$ PROPER APPLICATION TECHNIQUES 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE  $\checkmark$ D TECHNIQUES 9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS. 10. INSPECT ERECTION OF PRECAST MEMBERS. 11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO

STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS

ND STRUCTURAL SLABS.

2. INSPECT FORMWORK FOR SHAPE, LOCATION AND

DIMENSIONS OF THE CONCRETE MEMBER BEING FORME

WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

2. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING PROFESSIONAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SOILS & FOUNDATION CONSTRUCTION - IBC SECTION	l 1705.6, 1705.	7, 1705
VERIFICATION AND INSPECTION	REQUIRED	cc
1. INSPECTION OF SOILS:		
A. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	~	
B. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	$\checkmark$	
C. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	$\checkmark$	
D. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	~	
E. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	~	
2. DRIVEN DEEP FOUNDATIONS:		
A. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.		
B. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.		
C. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.		
D. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.		
E. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.2.		
F. FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.3.		
G. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.		
3. CAST-IN-PLACE DEEP FOUNDATIONS:		
A. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.		
B. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.		
C. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL-SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.3.		
4. HELICAL PILE FOUNDATIONS:		

A. INSPECT PILE INSTALLATION AND RECORD INSTALLATION EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE AND OTHER PERTINENT INSTALLATION DATA AS REQUIRED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

WIND RESISTANCE - STRUCTURAL IBC SECTION 1705.11 REQUIRED VERIFICATION AND INSPECTION STRUCTURAL WOOD A. FIELD GLUING ELEMENTS OF THE MAIN NDFORCE-RESISTING SYSTEM B. NAILING, BOLTING, ANCHORING AND OTHER FASTENINGS WITHIN THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD-DOWNS. EXCEPTION: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM. WHERE THE FASTENER PACING OF THE SHEATHING IS MORE THAN 4 INCHES ON 2. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION A. WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM B. SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTI SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS,

1. EXPOSURE CATEGORY B, WHERE  $V_{ASD}$  = 120 MPH OR GREATER. 2. EXPOSURE CATEGORY C OR D, WHERE V<sub>ASD</sub> = 110 MPH OR GREATER.

NOTE:  $V_{ASD} = V_{ULT} \sqrt{.6}$  (IBC SECTION 1609.3.1)

(OOD TRUSSES) THAT IS BEIN	G PERFORMED ON THE
TION 1704.2.5. AS NOTED IN S	ECTION 1704.2.5.2, SPECIAL
EXTENT: NUOUS, PERIODIC, OR SUBMITTAL	REFERENCED STANDARD
Ρ	
Ρ	
Р	IBC 1705.5.1
Р	
Р	
c	IBC 1705.5.2
EXTENT: NUOUS, PERIODIC, OR SUBMITTAL	REFERENCED STANDARD

Р	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	
Р	AWS D1.4, ACI 318:26.6.4		
P	AWS D1.4, ACI 318:26.6.4		
C	AWS D1.4, ACI 318:26.6.4		
Ρ	ACI 318: 17.8.2		
c	ACI 318: 17.8.2.4		
Р	ACI 318: 17.8.2		
Ρ	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	
C	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10	
C	ACI 318: 26.5	1908.6, 1908.7, 1908.8	
Ρ	ACI 318: 26.5.3-26.5.5	1908.9	
	-		
C	ACI 318: 26.10	-	
C	ACI 318: 26.10	-	
Р	ACI 318: CH 26.9	-	
P	ACI 318: 26.11.2		
P	ACI 318: 26.11.1.2(b)	-	

IBC REFERENCE

5.8 AND 1705.9

EXTEN

UOUS, PERIODIC, OR SUBMITTAL	REFERENCED STANDARD
Р	
Ρ	
Р	IBC TABLE 1705.6
C	
P	
C	
C	
C	
c	
	IBC TABLE 1705.7
C	
С	IBC TABLE 1705.8
C	IBC 1705.9

EXTENT: INUOUS OR PERIODIC	REFERENCE STANDARD
C	
Ρ	IBC 1705.11.1
P	IBC 1705.11.2
P	IDC 1705 11 0
Р	IBC 1705. 11.3

CON

SEISMIC RESISTANCE - STRUCTURAL IBC SECTION 17	705.12 REQUIRED	EXTENT: O - OBSERVE ON RANDOM DAILY BASIS. P - PERFORM PRIOR TO ACCEPTANCE . D - PREPARE REPORT	REFERENCED STANDAR	
1. STRUCTURAL STEEL: A. VISUAL INSPECTION TASKS PRIOR TO WELDING:		1		
1) MATERIAL IDENTIFICATION (TYPE/ GRADE). 2) WELDER IDENTIFICATION SYSTEM.		0		
3) FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY). - JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE				
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). - CLEANLINESS (CONDITION OF STEEL SURFACES).		0	AISC 244 IS 4	
- TACKING (TACK WELD QUALITY AND LOCATION). - BACKING TYPE AND FIT (IF APPLICABLE).			AISC 341, J6-1	
4) CONFIGURATION AND FINISH OF ACCESS HOLES. 5) FIT-UP OF FILLET WELDS.		0		
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT). - CLEANLINESS (CONDITION OF STEEL SURFACES). - TACKING (TACK WELD QUALITY AND LOCATION).		0		
B. VISUAL INSPECTION TASKS DURING WELDING:				
1) WELDING PROCEDURE SPECIFICATIONS FOLLOWED. - SETTINGS ON WELDING EQUIPMENT. - TRAVEL SPEED.				
- SELECTED WELDING MATERIALS. - SHIELDING GAS TYPE/FLOW RATE. - PREHEAT APPLIED		0		
- INTERPASS TEMPERATURE MAINTAINED (MIN/MAX). - PROPER POSITION (F, V, H, OH).				
- INTERMIX OF FILLER MATERIALS AVOIDED UNLESS APPROVED.				
3) CONTROL AND HANDLING OF WELDING CONSUMABLES.		0	AISC 341, J6-1	
EXPOSURE CONTROL.     A ENVIRONMENTAL CONDITIONS.				
- WIND SPEED WITHIN LIMITS. - PRECIPITATION AND TEMPERATURE.		0		
5) WELDING TECHNIQUES. - INTERPASS AND FINAL CLEANING. - EACH PASS WITHIN PROFILE LIMITATIONS.		o		
- EACH PASS MEETS QUALITY REQUIREMENTS. 6) NO WELDING OVER CRACKED TACKS.		0		
C. VISUAL INSPECTION TASKS AFTER WELDING: 1) WELDS CLEANED.		0		
2) SIZE, LENGTH, AND LOCATION OF WELDS.		P		
3) WELDS MEET VISUAL ACCEPTANCE CRITERIA. - CRACK PROHIBITION. - WELD/BASE-METAL FUSION.				
- CRATER CROSS SECTION. - WELD PROFILES AND SIZE.		P & D	AISC 341, J6-1	
ONDERCOT.     POROSITY.     A PLACEMENT OF REINFORCING OR CONTOLIRING FILLET				
WELDS (IF REQUIRED).		P & D		
AND FILLET WELDS ADDED (IF REQUIRED).		P & D		
D. NON-DESTRUCTIVE TESTING OF WELDED JOINTS AS REQUIRED BY REFERENCED STANDARD.		P&D	AISC 341, J6.2	
E. INSPECTION TASKS PRIOR TO BOLTING: 1) PROPER FASTENERS SELECTED FOR THE JOINT DETAIL.		0		
2) PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.		0		
3) CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF		0	AISC 244 17	
A) PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION		080	AISC 341, J7	
METHODS USED. 5) PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS		045		
AND OTHER FASTENER COMPONENTS. F. INSPECTION TASKS DURING BOLTING:		0		
1) FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.		0		
2) JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.		0	AISC 341 17	
3) FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.		0		
SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.		0		
G. INSPECTION TASKS AFTER BOLTING: 1) DOCUMENT ACCEPTED AND REJECTED CONNECTIONS.		P & D	AISC 341, J7	
H. INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT				
MATERIAL IDENTIFICATION OF REINFORCING STEEL (TYPE/GRADE) DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING		0		
STEEL OTHER THAN ASTM A706 PROPER REINFORCING STEEL SIZE, SPACING AND		0		
ORIENTATION REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		0	AISC 341, J9	
REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN		0		
PROVIDED COMPOSITE MEMBER HAS REQUIRED SIZE		0		
I. INSPECTION OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT				
COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)		O&D	4100.044.10	
LIMITS ON WATER ADDED AT THE TRUCK OR PUMP PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION		0&D 0	AISC 341, J9	
J. INSPECTION OF COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT				
COMPRESSIVE STRENGTH AT SPECIFIC AGE K. OTHER INSPECTION TASKS:		D	ACI 341 TABLE J9-3	
1) REDUCED BEAM SECTION REQUIREMENTS. (IF APPLICABLE) - CONTOUR AND FINISH.		P&D		
- DIMENSIONAL TOLERANCES. 2) PROTECTED ZONE - NO HOLES AND UNAPPROVED			AISC 341, J8	
ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE.		P & D		
2. STRUCTURAL WOOD: A. FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.		CONTINUOUS	IBC 1705.12.2	
B. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM,				
STRUES WOOD SHEAR WALLS, WOOD DIAPHRAGINS, DRAG STRUES, BRACES, SHEAR PANELS AND HOLD-DOWNS. EXCEPTION: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD				
SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, WHERE THE		PERIODIC	IBC 1705.12.2	
FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.				
3. COLD-FORMED STEEL FRAMING: A. WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.		PERIODIC	IBC 1705.12.3	
B. SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING				
SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS. EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR				
COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS AND DIAPHRAGMS, INCLUDING SCREW INSTALLATION, BOLTING, ANCHORING, AND OTHER EASTENING TO COMPANYING AN UNIT OF STORY AND		BEBIODIO	IDC 4705 40 0	
SYSTEM, WHERE EITHER OF THE FOLLOWING APPLIES: 1. THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD.		FERIODIC	1705.12.3	
2. THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF				
THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.				
4. SEISMIC ISOLATION SYSTEM: A. PERIODIC SPECIAL INSPECTION FOR SEISMIC ISOLATION				
STSTEMS DURING FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES.		PERIODIC	IBC 1705.12.8	

EXCEPTION: THE SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED FOR STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ONE OF THE FOLLOWING:

1. THE STRUCTURE CONSISTS OF LIGHT-FRAME CONSTRUCTION; THE DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, S<sub>DS</sub> DOES NOT EXCEED 0.5; AND THE BUILDING HEIGHT OF THE STRUCTURE DOES NOT EXCEED 35 FEET. 2. THE SEISMIC FORCE-RESISTING SYSTEM OF THE STRUCTURE CONSISTS OF REINFORCED MASONRY OR REINFORCED CONCRETE; THE DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, SDS NOT EXCEED 0.5; AND THE BUILDING HEIGHT OF THE STRUCTURE DOES NOT EXCEED 25 FEET.

3. THE STRUCTURE IS A DETACHED ONE- OR TWO-FAMILY DWELLING NOT EXCEEDING TWO STORIES ABOVE GRADE PLANE AND DOES NOT HAVE ANY OF THE FOLLOWING HORIZONTAL OR VERTICAL IRREGULARITIES IN ACCORDANCE WITH SECTION 12.3 OF ASCE 7: 3.1. TORSIONAL OR EXTREME TORSIONAL IRREGULARITY. 3.2. NONPARALLEL SYSTEMS IRREGULARITY.

 3.3.
 STIFFNESS-SOFT STORY OR STIFFNESS-EXTREME SOFT STORY IRREGULARITY.

 3.4.
 DISCONTINUITY IN LATERAL STRENGTH-WEAK STORY IRREGULARITY.



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1/6/2025

Date: 1/6/2025

	SHEAR WALL SCHEDULE				
PLYWOOD SHEAR WALLS					
TYPE	WALL SHEATHING	FASTENERS @ WALL SHEATHING	(2)2x FRAMING FASTENING (STUD TO STUD)	A. BOLT SPACING	BLOCKING REQ'D.?
SW3	½" PLYWD. (1) FACE	10d @ 3" O.C. EDGES, 10d @ 12" O.C. FIELD	10d @ 3" O.C. (STAGGERED)	5∕%"Ø @ 16" O.C.	YES
SW4	<sup>1</sup> / <sub>2</sub> " PLYWD. (1) FACE	10d @ 4" O.C. EDGES, 10d @ 12" O.C. FIELD	10d @ 4" O.C.	5∕%"Ø @ 16" O.C.	YES
SW6	½" PLYWD. (1) FACE	10d @ 6" O.C. EDGES, 10d @ 12" O.C. FIELD	10d @ 6" O.C.	5∕%"Ø @ 32" O.C.	YES

SEE 2/- FOR ADDITIONAL INFORMATION.

WALL SHEATHING

(EA. FACE OR

(1) FACE)

A. BOLT ON

WALL CL—

STD. CUT

WASHER —

A. BOLT ON

WALL CL

WALL SHEATHING

(EA. FACE OR (1) FACE) \_

- 2. HOLDOWNS SPECIFIED TO BE LOCATED AT EACH END OF WALL AND AT EACH END OF OPENINGS IN WALL. SEE PLANS FOR SIZE AND LOCATION. PROVIDE DOUBLE STUD (MINIMUM) AT HOLDOWN LOCATIONS AND INSTALL PER MANUFACTURER RECOMMENDATIONS. EMBED ANCHOR BOLTS WITHIN 3" CLEAR OF BOTTOM OF THICKENED SLABS AND 12" (MINIMUM) AT FOUNDATION WALLS.
- FRAMING AT ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL OR WIDER OR SHALL BE (2)2x FRAMING AND NAILS SHALL 3. BE STAGGERED WHERE NAIL SPACING IS LESS THAN 6" O.C.
- 4. EPOXY ANCHOR BOLTS OF SAME SIZE AND SPACING AS SPECIFIED ANCHOR BOLTS MAY BE INSTALLED IN LIEU OF ANCHOR BOLTS AT CONTRACTOR'S OPTION EXCEPT AT HOLDOWN LOCATIONS. EMBEDMENT SHALL BE THE SAME AS SPECIFIED FOR ANCHOR BOLTS.
- 5. BOLTS SHALL BE EMBEDDED AT LEAST 7 INCHES INTO THE CONCRETE AND SHALL BE SPACED NOT MORE THAN SPECIFIED. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES OR LESS THAN SEVEN BOLT DIAMETERS FROM EACH END OF THE PIECE. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE.
- 6. PLATE WASHERS A MINIMUM OF 3 INCH BY 3 INCH BY 0.229 INCH THICK OR SIMPSON "BPS" BEARING PLATES SHALL BE USED ON EACH BOLT AND SHALL BE GALVANIZED. SEE 5/- FOR ALLOWABLE PLATE SIZES AND CONFIGURATIONS.
- 7. SEE STRUCTURAL NOTES (SHEET S1.1B3) AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.





FILLER BLKG. TIGHT TO TOP

FLANGE. CONNECTION

1. CONDITION SHOWN IS SYMMETRIC EACH SIDE OF OPENING

1. ALL PANEL EDGES SHALL BE BACKED W/ 2" NOMINAL OR WIDER BLOCKING @ PLYWOOD SHEATHED WALLS.

- 2. PLYWOOD WALL SHEATHING SHALL BE  $\frac{1}{2}$ " APA C-D EXPOSURE 1 WITH PANEL SPAN RATING OF  $\frac{24}{3}$
- 3. NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE SURFACE OF PLYWOOD SHEATHING.
- 4. NAILS FOR PLYWOOD WALL SHEATHING SHALL BE COMMON OR GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT DIPPED OR TUMBLED. SPECIFIED NAILING APPLIES TO NAILS AT ALL TOP & BOTTOM PLATES & BLOCKING. PANEL FIELD NAILS SHALL BE SPACED @ 12" O.C. (MAX.).
- WALL AND NAIL SPACING IS LESS THAN 6" O.C.
- WHERE NAIL SPACING IS LESS THAN 6" O.C.
- SHALL BE SPACED AT 12" O.C. (MAX.).

FASTENER RQMNTS.		
NAIL TYPE	SIZE REQD.	
10d COMMON	3" x 0.148"	
10d GALV. BOX	3" x 0.128"	

PANEL FIELD FASTENING

STUDS -

PLYWD SHEATHING W/ FACE GRAIN PERPENDICULAR TO









8 PLYWD./NAILING DIAGRAM

1. ANCHOR BOLTS, PL<sup>1</sup>/<sub>4</sub>", AND SIMPSON "BPS" SHALL BE GALVANIZED.

W/ 1¾" DIAG. SLOTTED HOLE

— PL¼x3 x VARIES

W/ 1¾" DIAG. SLOTTED HOLE

<sup>-</sup> PL<sup>1</sup>⁄<sub>4</sub>x3 x 0'-4<sup>1</sup>⁄<sub>2</sub>" @ 2x6 PL¼x3 x 0'-6¼" @ 2x8

(2) DETAIL

EDGE FASTENING - BOTTOM PL WALL PANEL LAYOUT & NAILING DETAIL



8. SEE STRUCTURAL NOTES (SHEET S1.1B3) AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FASTENERS FOR ATTACHMENT OF GYPSUM WALLBOARD SHALL BE #6x1-5/8" TYPE W OR TYPE S SCREWS. SPECIFIED ATTACHMENT APPLIES TO SCREWS AT ALL TOP & BOTTOM PLATES AND BLOCKING (WHERE SPECIFIED). PANEL FIELD FASTENING

6. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL OR WIDER OR SHALL BE (2)2x AND NAILS SHALL BE STAGGERED

5. PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3-INCH NOMINAL OR THICKER OR SHALL BE (2)2x. NAILS ON EACH SIDE SHALL BE STAGGERED WHERE PLYWOOD IS APPLIED ON BOTH FACES OF THE

10d AT 12" O.C. AT INTERMEDIATE SUPPORTS

4. NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF PLYWOOD SHEATHING. 5. SUPPORT SHALL BE SUPPLIED TO ALL PLYWOOD EDGES WITH PLYCLIPS, BLOCKING, TONGUE AND GROOVE PLYWOOD JOINTS, OR OTHER APPROVED METHODS PER APA RECOMMENDATION. PLYCLIPS SHALL NOT BE USED AT FLOOR SHEATHING.

-PLYWOOD EDGE

- DIAPHRAGM BOUNDARY

EDGE NAILING

NAILING

PLYWOOD LAYOUT & NAILING PLAN

(3) PLAN

- HEADER SUPPORT.

SEE FRMG. PLAN &

STUDS. (COL. WHERE OCCURRING).

SEE FRMG. PLAN & NOTES FOR

NOTES FOR

NUMBER RQD.

SIZE & SPACING

HEADER SUPPORT.

SEE FRMG. PLAN &

NOTES FOR

NUMBER RQD.

7 SECTION

2. PLYWOOD FLOOR SHEATHING SHALL BE T&G <sup>3</sup>/<sub>4</sub>" APA RATED STURD-I-FLOOR EXPOSURE 1 WITH PANEL SPAN RATING 24. GLUE

DIAPHRAGM-

BOUNDARY

4x8 PLYWD.

PANEL -

2'-0" MIN.

SPECIFIED.

NAILING TO INTERMEDIATE

FRAMING MEMBERS MAX.

SPACING IS 12" O.C.

HOLDOWN ABOVE &

BELOW FLOOR FRMG SEE PLAN FOR SIZE &

LOCATION -

END PANEL

DIMENSION

BLOCKING CUT AND FITTED BETWEEN

FRAMING MEMBERS AT PANEL EDGES.

WHEN BLOCKED PANEL EDGES ARE

10d AT 6" O.C. AT DIAPHRAGM BOUNDARIES

10d AT 6" O.C. AT ALL SUPPORTED PANEL EDGES

TO ALL SUPPORTS.

6. SEE 4/- AND 8/- FOR ADDITIONAL INFORMATION.

7. SEE STRUCTURAL NOTES (SHEET S1.1B3) AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. PLYWOOD ROOF SHEATHING SHALL BE 5/8" APA C-D EXPOSURE 1 WITH PANEL SPAN RATING 32/16.

3. NAILS FOR SHEATHING ATTACHMENT SHALL BE 10d COMMON. MINIMUM SHEATHING NAILING SHALL BE:

THIS PANEL JOINT

NOT CONTINUOUS -



-CONTINUOUS

PANEL JOINT

NAILING ALONG

CONTINUOUS PANEL JOINT

FRAMING MEMBERS

ACTUAL SPACING)

(SEE PLAN FOR SIZE AND





ROOF AND FLOOR	R PLYWD/NAILING SCHEDULE

ARK	Boundary Nailing	NAILING ALONG CONT. PANEL JOINT @ BLKG	Plywd. Edge Nailing	INTERMEDIATE FRMG. MEMBER NAILING	PANEL EDGE BLKG.
A)	10d @ 6" O.C.	10d @ 6" O.C.	10d @ 6" O.C.	10d @ 12" O.C.	WHERE INDICATED ON PLAN

NOTES: 1. SEE DETAIL 3/- FOR TYPICAL PLYWOOD PANEL LAYOUT. SEE 8/- FOR PLYWOOD NAILING DIAGRAM.

2. ROOF SHEATHING TO BE  $\frac{5}{8}$ " PLYWOOD APA C-D EXPOSURE 1 WITH PANEL SPAN RATING OF  $\frac{32}{16}$ .

3. PLYWOOD FLOOR SHEATHING SHALL BE T&G <sup>3</sup>/<sub>4</sub>" APA RATED STURD-I-FLOOR EXPOSURE 1 WITH PANEL SPAN RATING 24. GLUE TO ALL SUPPORTS. NAIL ALL FLOOR AREAS PER MARK (A)

4. ALL PANEL EDGE BLOCKING TO BE MINIMUM 2x4 FLAT.

5. SUPPORT SHALL BE SUPPLIED TO ALL PLYWOOD EDGES WITH PLYCLIPS, BLOCKING, T&G PLYWOOD JOINTS OR OTHER APPROVED METHOD PER APA RECOMMENDATIONS. PROVIDE BLOCKING WHERE INDICATED ON PLANS AND DETAILS. PLYCLIPS SHALL NOT BE USED AT FLOOR SHEATHING.

(4) ROOF & FLOOR PLYWD./NAILING SCHEDULE

- 6. NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE SURFACE OF PLYWOOD SHEATHING.
- 7. SEE STRUCTURAL NOTES (SHEET S1.1B3) AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



BY HOLDOWN MFGR.

- DBL. TOP PLATE



Drwn: AS Chkd: RH

H



Date: 1/6/2025 Job: 2344 .DWG ID — 2243 a001—.dwg





	FOOTING SCHEDULE													
ID WIDTH LENGTH DEPTH REINF. CROSSWISE REINF. LENGTHWISE REMARKS														
10	NO SIZE LENGTH SPACING NO SIZE LENGTH SPACING NO SIZE LENGTH SPACING								SPACING					
FC2.0	2'-0"	CONT.	12"		#4	1'-8"	18" O.C.	3	#4		EQ.	CONT. FTG.		
FS3.5	3'-6"	3'-6"	12"	4	#4	3'-2"	EQ.	4	#4	3'-2"	EQ.	SPREAD FTG REINF. TOP & BOT.		

#### FOUNDATION PLAN NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALLS, AND OTHER INFORMATION NOT SHOWN OR NOTED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS AND EXISTING CONDITIONS MUST BE VERIFIED AND/OR DETERMINED IN THE FIELD.
- THE CONSTRUCTION DOCUMENTS MAY NOT SHOW SOME OBSTRUCTIONS. EVEN THOUGH NOT SHOWN OR SPECIFICALLY MENTIONED, THE REMOVAL AND REPLACEMENT OF MINOR OBSTRUCTIONS SHOULD BE ANTICIPATED AND ACCOMPLISHED.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND/OR SHORING OF THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 5. FOR FOUNDATION SOIL PREPARATION, SEE GEOTECH REPORT AND FOUNDATION NOTES ON SHEET S1.1B3.
- 6. CONTRACTOR TO EQUAL SPACE CONTROL AND CONSTRUCTION JOINTS PER THE FOUNDATION PLAN. CONTRACTOR SHALL PLACE CONTROL AND CONSTRUCTION JOINTS SO THAT THE MAXIMUM LENGTH OF ANY SECTION OF SLAB IS (36) TIMES THE NET SLAB THICKNESS. MAXIMUM SLAB SECTION RECTANGULAR RATIO SHALL BE 2:1. SEE DETAIL 11 & 12/S3.1B3.
- TYPICAL FLOOR CONSTRUCTION TO BE 4" OR 6" CONCRETE SLAB ON GRADE WITH #4 @ 18" O.C. EACH WAY ON SLAB CENTERLINE. SEE PLAN (THIS SHEET) FOR SLAB THICKNESS.
- 8. WOOD STUD BEARING WALLS AND SHEAR WALLS ARE 2x6 AT 16" O.C.
- 9. SILL BOLTS SHALL BE SPACED NO FARTHER APART THAN SPECIFIED. THERE SHALL BE A MINIMUM OF TWO BOLTS PER BOTTOM PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 7 BOLT DIAMETERS FROM EACH END OF EACH BOTTOM PLATE. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

- PLATE WASHERS A MINIMUM OF 3" BY 3" BY 0.229" THICK OR SIMPSON "BPS" BEARING PLATES SHALL BE USED ON EACH SILL BOLT AT SHEAR WALLS AND SHALL BE GALVANIZED.
- 11. SEE 3/S3.1B3 WHERE PIPING OCCURS PERPENDICULAR TO FOUNDATION WALL.
- 12. THICKEN INTERIOR FOOTING TO EXTERIOR WALL TOP OF FOOTING DEPTH AT ALL INTERIOR AND EXTERIOR WALLS.
- 13. SEE FRAMING PLANS AND NOTES ON SHEET S2.2B3 AND S2.3B3 FOR ADDITIONAL INFORMATION.
- 14. SEE STRUCTURAL NOTES. SEE SHEET S1.1B3 FOR ADDITIONAL INFORMATION.

#### FS# -DENOTES SPREAD FOOTING. SEE FOOTING SCHEDULE (THIS SHEET) FOR ADDITIONAL INFORMATION. FC# -DENOTES CONTINUOUS FOOTING. SEE FOOTING SCHEDULE (THIS SHEET) FOR ADDITIONAL INFORMATION. S-S -DENOTES FOOTING STEP. SEE 4/S3.1B3 FOR ADDITIONAL INFORMATION. T.O.F. -DENOTES TOP OF FOOTING ELEVATION. T.O.S. -DENOTES TOP OF SLAB ELEVATION F.F. -DENOTES TOP OF FINISHED FLOOR ELEVATION. --∽- -DENOTES FLOOR SLOPE DIRECTION. -DENOTES SHEAR WALL BELOW FLOOR FRAMING TO FOUNDATION. SEE SHEAR WALL SCHEDULE (1/S1.3B3) FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE / SW# ` SHEAR WALL TYPE UNLESS NOTED OTHERWISE. HDU# -DENOTES SIMPSON HOLD DOWN TYPE & LOCATION. PROVIDE DOUBLE STUD (MINIMUM) AT HOLD DOWN LOCATIONS AND INSTALL PER MANUFACTURER RECOMMENDATIONS. CTJ -DENOTES CONTROL JOINT. SEE SECTION 11 & 12/S3.1B3 FOR ADDITIONAL INFORMATION. CNJ -DENOTES CONSTRUCTION JOINT. SEE SECTION 11 & 12/S3.1B3 FOR ADDITIONAL INFORMATION.

15. LEGEND:

-DENOTES WOOD COLUMN LOCATIONS. WHERE COLUMN OCCURS IN STUD WALL, CENTER COLUMN ON CENTERLINE OF STUD WALL TYPICAL UNLESS NOTED OTHERWISE.

**S2.1B3** 

Job: 2344 Date: 1/6/2025

.DWG ID — 2243 a001—.dwg

1/6/2025

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#### FLOOR FRAMING PLAN NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALLS, AND OTHER INFORMATION NOT SHOWN OR NOTED.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS AND EXISTING CONDITIONS MUST BE VERIFIED AND/OR DETERMINED IN THE FIELD.
- 3. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND/OR SHORING OF THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 4. PLYWOOD FLOOR SHEATHING TO BE <sup>3</sup>/<sub>4</sub>" APA RATED STURD-I-FLOOR EXPOSURE 1 WITH PANEL SPAN RATING 48. USE TONGUE AND GROOVE PLYWOOD OR BLOCK PANEL EDGES. GLUE TO ALL SUPPORTS.
- 5. GLU-NAIL FLOOR PLYWOOD TO FRAMING MEMBER WITH THE FOLLOWING: 16d AT 6" O.C. AT DIAPHRAGM BOUNDARIES;
- 16d AT 6" O.C. AT SUPPORTED PANEL EDGES; 16d AT 12" O.C. AT INTERMEDIATE SUPPORTS. SEE PLYWOOD LAYOUT AND NAILING PLAN (3/S1.3B3) FOR NAILING AND TYPICAL PLYWOOD PANEL LAYOUT.
- 6. STAGGER SPLICES ON CONTINUOUS TOP PLATES AND NAIL WITH 12d AT 6" O.C. STAGGERED. MINIMUM OF SIXTEEN (16) NAILS BETWEEN ADJACENT SPLICES.
- 7. EXTERIOR AND INTERIOR BEARING WALLS ARE 2X6 WOOD STUDS AT 16" O.C. TYPICAL. WHERE STUD LENGTH EXCEEDS 12'-0" PROVIDE 2x6 LVL STUDS @ 16" O.C.

- 8. MINIMUM BEAM/HEADER SIZE SHALL BE (3) 2x10 AT 2x6 STUD WALLS AND (2) 2x10 AT 2x4 STUD WALLS.
- 9. FLOOR FRAMING TO BE PRE-ENGINEERED I-JOISTS, ENGINEERED AND MANUFACTURED IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE. ERECTION, ANCHORAGE, AND BRIDGING TO BE PER MANUFACTURER'S STANDARDS. MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS SUCH AS BLOCKING, BRIDGING, SPECIFICATION OF JOIST TO JOIST CONNECTIONS, ETC. REQUIRED FOR COMPLETE ENGINEERED ROOF FRAMING SYSTEM.
- 10. ALL BEAMS AND HEADERS TO HAVE DOUBLE STUD SUPPORTS (MINIMUM) EXCEPT WHERE OTHERWISE NOTED. SEE 11/S1.3B3.
- 11. PROVIDE SOLID BEARING TO FLOOR FRAMING AND FOUNDATION BELOW WITH SAME SIZE AND NUMBER OF STUDS (MINIMUM) BELOW ALL BEAM AND HEADER BEARING POINTS (SEE 7/S1.3B3 FOR ADDITIONAL INFORMATION).
- 12. FOR OPENINGS IN WOOD FLOOR FRAMING, SEE 10/S1.3B3 FOR ADDITIONAL INFORMATION. NOT ALL OPENINGS ARE SHOWN OR NOTED.
- 13. BLOCK ALL JOINTS ON WALLS SHEATHED WITH PLYWOOD. SEE WALL PANEL LAYOUT AND NAILING DETAIL (2/S1.3B3) FOR ADDITIONAL INFORMATION.
- 14. SEE ROOF FRAMING PLAN AND NOTES (SHEET S2.3B3) FOR ADDITIONAL INFORMATION. 15. SEE STRUCTURAL NOTES (SHEET S1.1B3) FOR ADDITIONAL INFORMATION.

/ SW# \

16. LEGEND:

HDU# T.O.S. T.O.B. F.F.

 $\boxtimes$ 

-DENOTES SHEAR WALL BELOW FLOOR FRAMING TO FOUNDATION. SEE SHEAR WALL SCHEDULE (1/S1.3B3) FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE SHEAR WALL TYPE UNLESS NOTED OTHERWISE.

-DENOTES HOLDOWN SIZE AND LOCATION. SEE 7/S1.3B3.

-DENOTES TOP OF SHEATHING ELEVATION.

-DENOTES TOP OF BEAM ELEVATION.

-DENOTES TOP OF FINISH FLOOR ELEVATION.

-DENOTES FLOOR SHEATHING SPAN DIRECTION.

-DENOTES WOOD COLUMN LOCATION BELOW FLOOR FRAMING (U.N.O.). WHERE COLUMN OCCURS IN STUD WALL, CENTER COLUMN ON CENTERLINE OF STUD WALL TYPICAL UNLESS NOTED OTHERWISE.

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HITEC

ARC



1/6/2025



6. VERIFY FINAL WEIGHT AND LOCATION WITH MECHANICAL.

- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALLS, AND OTHER INFORMATION
   NOT SHOWN OR NOTED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING 2. WITH THE WORK. ALL DIMENSIONS AND EXISTING CONDITIONS MUST BE VERIFIED AND/OR DETERMINED IN THE FIELD.
- 3. THE CONSTRUCTION DOCUMENTS MAY NOT SHOW SOME OBSTRUCTIONS. EVEN THOUGH NOT SHOWN OR SPECIFICALLY MENTIONED, THE REMOVAL AND REPLACEMENT OF MINOR OBSTRUCTIONS SHOULD BE ANTICIPATED AND ACCOMPLISHED.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND/OR SHORING OF THE STRUCTURE AND 4. STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 5. ROOF SLOPE IS TO BE 4:12 TYPICAL.
- 6. PLYWOOD ROOF SHEATHING TO BE 5/8" APA C-D EXPOSURE 1 WITH PANEL SPAN RATING 40/20. PLYWOOD SHALL BE CONTINUOUS UNDER ALL OVERBUILD AREAS.
- 7. ROOF PLYWOOD NAILING TO BE:
- 10d AT 6" O.C. AT DIAPHRAGM BOUNDARIES; 10d AT 6" O.C. AT ALL SUPPORTED PANEL EDGES; 10d AT 12" O.C. AT INTERMEDIATE SUPPORTS.
- SEE PLYWOOD LAYOUT AND NAILING PLAN (DETAIL 3/S1.3B3) FOR NAILING AND TYPICAL PLYWOOD PANEL LAYOUT.
- SUPPORT SHALL BE SUPPLIED TO ALL PLYWOOD EDGES WITH PLYCLIPS, BLOCKING, TONGUE & 8. GROOVE PLYWOOD JOINTS.
- 9. ROOF FRAMING TO BE PRE-ENGINEERED TRUSSES, ENGINEERED AND MANUFACTURED IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE. ERECTION, ANCHORAGE, AND BRIDGING TO BE PER MANUFACTURER'S STANDARDS. MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS SUCH AS BLOCKING, BRIDGING, SPECIFICATION OF TRUSS TO TRUSS CONNECTIONS, ETC. REQUIRED FOR COMPLETE ENGINEERED ROOF FRAMING SYSTEM.

- 10. ANCHOR ROOF FRAMING TO WALL TOP PLATE OR HEADERS WITH SIMPSON "H1" HURRICANE TIES, MINIMUM.
- 11. STAGGER SPLICES ON CONTINUOUS TOP PLATE AND NAIL WITH 12d AT 6" O.C. STAGGERED. MINIMUM OF SIXTEEN (16) NAILS BETWEEN ADJACENT SPLICES.
- 12. EXTERIOR WALLS AND INTERIOR BEARING WALLS ARE 2x6 AT 16" O.C. WHERE STUD LENGTH EXCEEDS 12'-0" PROVIDE 2x6 LVL STUDS AT 16" O.C.
- 13. MINIMUM BEAM AND HEADER SIZE SHALL BE (2) 2x12.
- 14. ALL BEAMS AND HEADERS TO HAVE DOUBLE STUD SUPPORTS (MINIMUM) EXCEPT WHERE
- OTHERWISE NOTED. 15. PROVIDE SOLID BEARING TO FLOOR FRAMING AND FOUNDATION BELOW WITH SAME SIZE AND
- NUMBER OF STUDS (MINIMUM) BELOW ALL BEAM AND HEADER BEARING POINTS. (DETAIL 11/S1.3B3). 16. BLOCK ALL JOINTS ON WALLS SHEATHED WITH PLYWOOD. SEE WALL PANEL LAYOUT AND NAILING
- DETAIL (2/S1.3B3) FOR ADDITIONAL INFORMATION. 17. SEE STRUCTURAL NOTES (SHEET S1.1B3) FOR ADDITIONAL INFORMATION.

#### 18. LEGEND:

/ SW# `

F.F.

 $\boxtimes$ 

-DENOTES SHEAR WALL BELOW FLOOR FRAMING TO FOUNDATION. SEE SHEAR WALL SCHEDULE (1/S1.3B3) FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE SHEAR WALL TYPE UNLESS NOTED OTHERWISE.

T.O.B. -DENOTES TOP OF BEAM ELEVATION.

-DENOTES TOP OF FINISH FLOOR.

-∽- -DENOTES ROOF SLOPE DIRECTION.

-DENOTES ROOF SHEATHING SPAN DIRECTION.

-DENOTES WOOD COLUMN LOCATION. WHERE COLUMN OCCURS IN STUD WALL, CENTER COLUMN ON CENTERLINE OF STUD WALL TYPICAL UNLESS NOTED OTHERWISE.

-DENOTES APPROXIMATE SIZE, LOCATION, AND WEIGHT OF MECHANICAL EQUIPMENT. |\_\_\_;#\_\_\_| |\_\_\_;#\_\_\_| VERIFY WITH MECHANICAL. SEE MECH. FOR ADDITIONAL INFORMATION.



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Drwn: AS Chkd: RH



1/6/2025

Date: 1/6/2025

**Associates, PS** 

The DOH

Job: 2344

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and PLANNER

HITEC

ARC





9 SECTION 3/4" = 1'-0"



CL POST











Drwn: AS Chkd: RH





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#### STRUCTURAL NOTES GENERAL:

- 1. Dimensions: The structural drawings shall be considered as a part of the complete set of Contract drawings, including the drawings of all disciplines. It is intended that the Structural drawings will provide sufficient dimensions to locate the primary structural elements and members. Location of secondary members which are affected by systems detailed by others may require reference to the drawings of other disciplines and layout and coordination by the contractor. If direct conflict between dimensions of two or more disciplines is encountered, such conflicts shall be resolved by the Architect. Do not use scaled dimensions. Use written dimensions or where dimensions are not provided, consult the architect for clarifications before proceeding with the work in question.
- 2. Omissions or conflicts between various elements of the drawings, specifications, notes, and details shall be brought to the attention of the structural engineer and resolved before proceeding with the work. The contractor must submit in writing any requests for modifications to the plans and specifications. Shop drawings submitted to the structural engineer for review do not constitute "in writing" unless it is clearly noted that specific changes are being requested.
- 3. Deferred Submittals: Where Structural components are fully or partially designed and detailed by the supplier or fabricator, complete shop drawings and calculations, signed and sealed by a professional engineer registered in the state where the project is located, shall be submitted to the structural engineer for review. In addition, a copy of these documents shall be submitted to the Building Official for approval in accordance with IBC Section 107.3.4.1.
- 4. The Contract drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include but not be limited to bracing and shoring for loads due to construction equipment and materials.

#### DESIGN CRITERIA:

- 1. Used 2021 International Building Code.
- 2. ASD Design Loads: 2.1. Roof: D.L. = 10#/SF., L.L. = 48#/SF. Snow.
- Wind load = 85 MPH (nominal), 110 MPH (ultimate), exposure C, lw = 1.0. 4. Seismic: Equivalent Static Force Design Procedure. Seismic Design Category D, Site Class D.
- Ss = 0.544 SDS = 0.495
- S1 = 0.215 SD1 = 0.280
- R = 2.5 Light framed walls w/shear panels all other materials. le = 1.0.

#### \*\*Per ICC Commentary:

"Wind speeds are designated as "ultimate design" or "nominal design" wind speeds and are used for either strength design or allowable stress designs respectively. The ultimate design wind speeds are indicated in Figures 1609A, B & C, and vary based on the building's risk category and location. The ultimate design for wind speeds for a Risk Category II building vary from 110 mph on the West Coast to 180 mph in hurricane-prone areas in southern Florida. These wind speeds would convert to a nominal design wind speed, or what was previously called the "basic wind speed" 85 mph for the West Coast and 139 mph for southern Florida when using allowable stress design."

#### QUALITY ASSURANCE:

#### FOUNDATIONS:

1. Maximum foundation soil bearing pressure used = 1500#/SF. MATERIALS:

#### CONCRETE:

- 1. Mix design shall be established in accordance to Chapter 5 of ACI 318. 2. Concrete shall be a design mix producing strengths at 28 days as listed below:
- 2.1. Footings: 2500 psi (4-1/2 sack mix)
- 2.2. Slab on grade: 3500 psi (5-1/2 sack mix)
- (designed as 2500 psi, special inspection not required) Maximum slump of concrete shall be 4" prior to the addition of admixtures. 3.
- Maximum aggregate size shall be the least dimension of: 4. 4.1. 1/5 the narrowest dimension between sides of forms. 4.2. 3/4 the clear spacing between reinforcing bars
- 4.3. 1/3 the depth of the slab.
- 5. Pre-Engineered Perma-Column 28 day strength f'c = 10,000 PSI.

#### STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. All steel work shall conform with AISC specifications. 2. Bolts ASTM A307 for connections to concrete. Bolts ASTM A325 for steel to steel connections. Bolts to be snug tight except bolts indicated as S.C. to be fully tightened.
- 3. Roof Steel Panels: Shall be painted 24 Ga (MS-150), standing seam steel and
- shall be attached to framing per manufacturer recommendations. 4. Wall Steel Panels: Shall be painted 24 Ga (HR-34), ribbed steel and shall be

#### LUMBER:

- 1. Sawn lumber for studs, joists, etc.(2x6 or larger) = No.2 Doug Fir larch or SPF 1250 psi. or better.
- 2. 2x4's = Standard Doug Fir larch.
- 3. Posts (Interior) = Triad Building Components MSR SPF.
- 3.1. 2x8 Post Lam Uppers = 1,950Fb-1.7E
- 3.2. 2x6 Post Lam Uppers = 1,650Fb-1.5E 3.3. #1 Treated So. Pine Lam when embedment is in contact with ground.
- (Excludes Perma Columns)
- 4. Roof Sheathing =  $\frac{7}{16}$ ", minimum.
- 4.1. Nailing = 8d(.131 Ø shank x 2  $\frac{1}{2}$ " long) or 1  $\frac{1}{2}$ " x 16Ga. staples at 6" o.c. all supported edges, 12" o.c. in field.
- 5. All nails are to be common nails unless noted otherwise.
- 6. For connections of "SIMPSON" hardware or equivalent follow manufacturers
- recommendations.
- 7. Trus-Joist products:
- 7.1. Roof joists shown as TJI etc. shall be designed for the loads specified and shall conform to Trus-Joist specification.
- 7.2. Joists exceeding 24' in length shall be cambered to a standard radius of R = 2250.
- 7.3. Any alternate joist system(s) shall be the same depth and load Carrying
- capacity as the Trus-Joist system show on the drawings. 7.4. Micro Lam (LVL) E-1,900,000 psi.
- 8. Structural Glued Laminated Timber (GLB) = 24f-V4 (DF/DF) with standard
- camber.
- 9. Premanufactured Trusses 9

1.	Truss Loading:		
	Top Chord D.L.	= 8 PSF.	

Botton	n Chord D.L.	= 2 PSF.
		10 505

Top Chord L.L.	= 48 PSF.	
TOP ONOIG L.L.	- 401 01 .	

- Bottom Chord L.L. = 2 PSF. Does not act concurrently with top chord L.L.
- 9.2. Member Properties:
- Chords shall be #2 Douglas Fir or better.
- Webs shall have minimum Modulus of Elasticity of 1,500,000 psi. 9.3. All truss blocking shall be provided by the truss manufacturer and
- constructed with approved plates.
- 9.4. Truss Manufacturer shall verify all truss dimensions, accounting for tolerances, connections, and splice requirements. 9.5. Truss profiles shown are representations of possible configurations of Web locations and member sizes. Truss manufacturer shall submit shop
- drawings for approval. All trusses shall be designed by a registered professional engineer and all shop drawings shall be stamped and signed
- by a registered professional engineer. 9.6. Truss manufacturer shall provide proof of approved third party I inspection
- as required by IBC chapter 2303.4.
- 9.7. Truss manufacturer shall design all truss to truss connections and shall indicate said connections on the shop drawings.
- 9.8. Each truss shall be marked with the following information: 9.8.1. Manufacturers identity.
- 9.8.2. Design Load. 9.8.3. Truss spacing.
- 10. All lumber in contact with concrete, masonry, or ground shall be preservative treated wood in accordance with AWPA standards. Posts embedded in the

ground shall comply with UC4B .60 treatment or greater.

attached to framing with 1 1/2" x #9 screws with neoprene washers at 9" o.c.



#### SHEET LIST

S0-B4 = GENERAL NOTES S1-B4 = FOUNDATION PLAN S2-B4 = ROOF FRAMING PLAN S3-B4 = SECTION AND DETAILS S4-B4 = ELEVATIONS

#### ROOF SNOW LOAD FACTORS Pf = 0.7(Ce)(Ct)(I)Pg

Elevation	= 692 ft.
Ground snow	= 57 psf. min.
Importance	= 1.0
Thermal (Ct)	= 1.2
Exposure (Ce)	= 1.0
Slope (Cs)	= 1.0

Roof Snow (Pf) = 48.0 Sloped Roof Snow (Ps) = 48.0



801 5 WASHINGTON ATCHEE, WEN GAF OHME <u></u>425



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FOUNDATION PLAN

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



01/06/2025

Chkd:

# 801 VEN GARDEN RO OHME 425

# FOUNDATION NOTES:

- OSB SHIMS & TYP. NAILING ON FACES OF PERMA COLUMN LAM. TO FLUSH OUT WHERE NEEDED.
- 2 8" THICK CONCRETE RETAINING WALL BY OTHERS. ASSUMED WALL HEIGHTS AS SHOWN.
- 3 CAST IN PLACE SWP84 "STURDI-WALL PLUS" BRACKETS FOR (3) 2x8 SPF POST. CENTER POST WITH CENTER OF 8" CONCRETE STEM WALL. SEE DETAIL 11/S3-B4 AND 12/S3-B4.
- 4 POST INSTALLED SW63 "STURDI-WALL" BRACKETS FOR (3) 2x6 SPF POST. INSTALL TOP OF SLAB POURED ON TOP OF CONCRETE WALL FOOTING. SEE DETAIL 13/S3-B4.
- 5 CONFIRM MAN DOOR LOCATIONS
- 6 PROVIDE 2x6 STRONGBACKS ON INSIDE FACE OF UNBRACED POSTS. ATTACH w/(2) 16d @ 12" O.C. TYP.

	FOOTING SCHEDULE													
MARK	"D"	DEPTH	POST - LOWER	POST - UPPER	DETAIL	BELL - WIDTH	BELL - DEPTH							
F1	2'-0"Ø	4'-0"	Perma-Column 8300	(3) 2x8 SPF	3/S3-B4									
F2	2'-0"Ø	4'-0"	Perma-Column 8300	(3) 2x8 SPF	3/S3-B4	3'-0"Ø	10"							
F3	2'-0"Ø	4'-0"	Perma-Column 6300	(3) 2x6 SPF	3/S3-B4									
F4														

# Associates, PS FS and PLANNERS (209) <u>e</u> < S The DOH Architect رت 500 م -4781 тее Аve ъu (509) 662-HOH < 0

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S1-B4



ROOF FRAMING PLAN

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



MERICAINC.

# **1**08 WENATCHEE, WASHING

OLDS ST 425 OHME GARDEN ROAD [7] 

# ROOF FRAMING NOTES:

- LSTA18 STRAP- PLACE AT INSIDE OF FASCIA BOARD IF NO OVERHANGS. PLACE AT INSIDE FACE OF TOP WALL GIRT IF OVERHANGS
- 2 CONFIRM WINDOW & MAN DOOR LOCATIONS w/OWNER.
- 3 8" THICK CONCRETE RETAINING WALL BELOW, BY OTHERS.
- 4  $\frac{1}{16}$ " MIN. ROOF SHEATHING ON ALL ROOF SURFACES. TYP. ATTACH PER LUMBER NOTE 4/S0-B3

HEADER SCHEDULE											
MARK MEMBER SUPPORT											
H1 V = (1) 2x10 DF#2 H = (1) 2x8 DF#2 (1) 2x8 TRIMMER											
H2	V = (1) 2x6 DF#2 H = (1) 2x6 DF#2										
H3 V = (1) 2x6 DF#2											
NOTE: RE FR	FER TO DETAILS 9 & 10/S AMING CONDITIONS.	53-B4 FOR HEADER									



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 .DWG ID







801 NOL WASHING VENATCHEE, 425 OHME GARDEN ROAD

01/06/2025 Chkd:

Drwn:



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S3-B4



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



3 REAR ELEVATION SCALE: 1/4"=1'-0"



2 RIGHT ELEVATION SCALE: 1/4"=1'-0"



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





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S4-B4

PLUMBING LEGEND		PLUMBING/PIPING SYMBOLS	WSEC CO	MPLIANCE												
SYMBOLDEFINITIONABBCOLD WATERCOLD WATERHOT WATERHOT WATER RETURNHYHOT WATER RETURNHYNON-POTABLE COLD WATERNFTTEMPERED HOT WATERTHSOFT COLD WATERCIHOT SOFT WATERHILAB COLD WATERLIHOT WATER W/TEMP. INDICATEDHOTHOT WATER HEAT TRACEDHTHHOT WATER HEAT TRACEDHTHDEIONIZED WATERDEIONIZED WATERDUDISTILLED WATERDEIONIZED WATER	BREV. CW HW HWR IPCW THW CSW HSW LCW LHW - TRHW RO DE DW	→O       ELBOW UP         →O       ELBOW DOWN         →O       TEE UP         →O       TEE DOWN         →O       CONCENTRIC REDUCER/INCREASER         →       ECCENTRIC REDUCER/INCREASER         →       ECCENTRIC REDUCER/INCREASER         →       RISE/DROP IN PIPE         →       RISE/DROP IN PIPE & 90° TURN         →       VENT THRU ROOF         →       CAP	<ol> <li>WATER HEATING EQUIPMENT AND HOT WATER STO SECTION C404.2 AND TABLE C404.2 OF THE WSEC.</li> <li>DOMESTIC HOT WATER RE-CIRCULATION AND HEA HEATED WATER SUPPLY PIPING REQUIREMENTS CO INSTALLED TO COMPLY WITH C404.3.1 MAXIMUM AL MAXIMUM ALLOWABLE PIPE VOLUME METHOD.</li> <li>PROVIDE HEAT TRAP ON SUPPLY AND DISCHARGE SECTION C404.4 OF WSEC. RHEEM SP2003 OR EQU</li> <li>ELECTRIC WATER HEATERS LOCATED IN UNCONDI SEPARATED FORM THE SUPPORTING SURFACE WI OF THE WSEC.</li> <li>PIPE INSULATION - PER WSEC C404.6. FOR AUTOM SYSTEMS, PIPING SHALL BE INSULATED PER TABLE INSULATION HAVING A CONDUCTIVITY NOT EXCEED</li> </ol>	DRAGE TANKS SHALL MEET THE REQUIRE T TRACE SYSTEMS SHALL MEET THE EFFI F SECTION C404.3 OF THE WSEC. PIPING 3 LOWABLE PIPE LENGTH METHOD OR C40 PIPING FROM WATER HEATER AS REQUIF AL. TIONED SPACES OR ON CONCRETE FLOO TH R-10 INSULATION AS DESCRIBED IN SE ATIC-CIRCULATING HOT WATER AND HEA E C403.10.3 AND NOT LESS THAN 1 INCH (2 DING 0.27 BTU PER INCH/H • FT2 • °F (1.53 \	EMENTS OF FICIENT SHALL BE 04.3.2 RED IN DRS SHALL BE ECTION C404.5 AT-TRACED 25 MM) OF W PER 25			DITIONAL SYI	MBOLS SIGNATION BER BER BER	5						E N G I N E R PLOIS STERVIS A CONGINE SYSTER MECHANICAL ELECTRICAL AND PULMBING SYSTER 101 S Stevens St # 201, Spokane, WA 9 Phone, CRON 6072, 4333
G         NATURAL GAS (BELOW 1PSI)         N           — G(#PSI)         NATURAL GAS (ABOVE 1PSI)         NG(           — LPG         LIQUID PROPANE GAS         LI           — 0         OXYGEN         0	NG G(#PSI) LPG O	Image: CLEAN-OUT (WALL OR CEILING)       Image: CLEAN-OUT (FLUSH TO FLOOR OR GRADE)	<ul> <li>MM/M2 • K).</li> <li>6. HEATED WATER CIRCULATING AND TEMPERATURE COMPLY WITH SECTION C404.7.</li> <li>CIRCULATION SYSTEM SHALL BE ACTIVATED</li> </ul>	MAINTENANCE SYSTEMS SHALL BE INST	TALLED TO				PLU	MBING	B PUMP	' SCHEE	JULE		1	
Fire protection piping     F       SS     SANITARY SEWER (SITE)       PS     PUMPED SANITARY SEWER (SITE)       SD     STORM DRAIN (SITE)	FP SS PS SD	<ul> <li>CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW)</li> <li>VALVE (AS INDICATED OR SPECIFIED)</li> </ul>	THE RETURN WATER TEMPERATURE IS SATIS B. HEAT TRACE SYSTEM SHALL AUTOMATICALL TEMPERATURE WHEN HEATED WATER IS US THERE IS NO HOT WATER DEMAND.	SFIED. Y REGULATE ENERGY INPUT TO MAINTAIN ED IN THE OCCUPANCY AND SHALL BE OF	N THE SYSTEM FF WHEN	SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	FLOW (GPM)	HE (FE	AD ET) VOL	LTAGE PH		NL HP RI	PM	NOTES
WASTE PIPING	V V ARW ARV	CHECK VALVE      PRESSURE & TEMPERATURE (RELIEF VALVE)      PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)	7. PROVIDE RECORD DRAWINGS, OPERATING AND M/ FORMS, AND SYSTEMS OPERATION TRAINING DOC THROUGH C103.6.4 TO THE OWNER WITHIN 180 DA REQUIRED BY SECTION C103.6 OF THE WSEC.	AINTENANCE MANUALS, ENERGY CODE CO UMENTS AS DESCRIBED IN SECTION C103 YS AFTER THE DATE OF SYSTEM ACCEPT/	COMPLIANCE 3.6.1 FANCE AS	CP-1	INLINE	TACO 006e3	2	Ę	3 1	115	1 44	WATTS		1, 2, 3, 4
INDIRECT WASTE FIFTING       IT        RWL       RAIN WATER LEADER PIPING       Ri	RWL DRWL CD GW COTG	Imile     GAS VALVE       Solenoid valve       HOSE BIBB       CIRCUIT SETTER	<ul> <li>8. COMMISSIONING SHALL BE PROVIDED AND REPOR OWNER AS REQUIRED BY SECTION C408.1 OF THE</li> <li>9. ABS PIPING MATERIAL NOT ALLOWED IN FIRE RATE</li> </ul>	T OF COMMISSIONING SHALL BE SUBMITT WSEC. ED PLENUMS PER WAC.	TED TO THE	NOTES: 1. PR 2. PR 3. PR 4. PR	OVIDE ECM MOT OVIDE UNION FI OVIDE ADJUSTA OVIDE INTEGRA	TOR AND MOTOR SPEED A TTINGS AND BUILT IN CH BLE SPEED SWITCH L AQUASTAT CONTROL	ADJUSTMEN ECK AND ST	T OP VALVES						
HO COTF     CLEAN OUT TO FLOOR     CO       HO WCO     WALL CLEAN OUT     W       HI CO     CLEAN OUT     C	COTF WCO CO	VALVE BOX W/ VALVE (AS SPECIFIED)       ONNECTION TO EXISTING					PLU	JMBING FIXT	URE S	CHED	JLE					
		EXTENSION & CONTINUATION     DIRECTION OF HW RECIRCULATION LINE		SYMBOL DESCRIPTION	MANUFACTURER AN	ID CATALOG #	FAUC	ET/FLUSH VALVE	HW	CONNECT	ons w v	/		NC	TES	
		ELECTRIC TANK TYPE WATER HEATER SCHEDULE		WC-1 WATER CLOSET, FLOOR MOUNT, FLUSH TANK (ACCESSIBLE)	KOHLER HIGHLIN (1.28 GP	E K-25224-0 F)	ELONGATE	ED OPEN FRONT SEAT, UPPLY, STOP	-	1/2"	3" 2	" PROVIE	DE FLUSH H \RCHITECTI	ANDLE TO COMF JRAL PLANS FOF	PLY WITH ADA F LOCATION OF	REQUIREMENTS. SEE ADA FIXTURES

	ELECTRIC TANK TYPE WATER HEATER SCHEDULE															
ELECTRIC HEAT RECOVERY ELECTRICAL																
SYMBOL	DESCRIPTION	SERVICE	MODEL NUMBER	(GALLONS)	(UEF)	ELEMENTS (QTY)KW	STEPS	OPERATION	GPH	INLET TEMP. (°F)	OUTLET TEMP. (°F)	TOTAL FIRST HOUR CAPACITY (GPh)	VOLTAGE	PHASE	AMPS	NOTES
WH-2	TANK TYPE	RESTROOMS	RHEEM ELD50	50	0.93	(2) 5.0	1	NON-SIMULTANEOUS	25	40	120	60	208	1	24	1, 2
NOTES: 1. PR 2. PR	OVIDE P&T RELI OVIDE EXPANSI	EF VALVE ON TANK AMTR	OL ST-5													

,,														
	ELECTRIC TANKLESS WATER HEATER SCHEDULE													
	CAPACITY ELECTRICAL MANUFACTURER													
SYMBOL	LOCATION	AND CATALOG #	MAX. FLOW (GPM)	MIN. FLOW (GPM)	PRESS. DROP (FEET)	EWT (°F)	LWT (°F)	HEATER (KW)	ENERGY FACTOR	VOLT/PH	AMPS	NOTES		
WH-1	SEE PLANS	CMI-20L/240	.5	.35	-	40	110	4.8	0.99%	240/1	20	1		
NOTES:	NOTES:													

1. PROVIDE ASME PRESSURE RELIEF VALVE

AIR COMPRESSOR SCHEDULE										
,		PRESSURE	TANK	MOTOR						
#	MFG	MODEL	SERVICE	СЕМ	(PSI)	(GALLONS)	HP	VOLTS	PHASE	NOTES
C-1	OWNER SUPPLIED	-	SHOP COMPRESSED AIR	38	175	120	10	208	1	1
NOTES										

1. PROVIDE SOUND ENCLOSURE

	PLUMBING FIXTURE SCHEDULE									
SYMBOL					CONNE	CTIONS		NOTES		
STNIDUL	DESCRIPTION	MANUFACTURER AND CATALOG #	FAUGET/FLUSH VALVE	HW	CW	W	v	NOTES		
WC-1	WATER CLOSET, FLOOR MOUNT, FLUSH TANK (ACCESSIBLE)	KOHLER HIGHLINE K-25224-0 (1.28 GPF)	ELONGATED OPEN FRONT SEAT, SUPPLY, STOP	-	1/2"	3"	2"	PROVIDE FLUSH HANDLE TO COMPLY WITH ADA REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR LOCATION OF ADA FIXTURES		
L-1	LAVATORY WALL MOUNT	KOHLER GREENWICH K-2031-0 20"X18"	KOLHER K-97283-4 SINGLE HANDLE, 0.5 GPM FLOW	1/2"	1/2"	1-1/2"	1-1/2"	GRID STRAINER, TAIL PIECE, P-TRAP, SUPPLIES, STOPS, PROVIDE MANUAL MIXING VALVE TO LIMIT HOT WATER SUPPLY TO 105°F		
<u>(S-1)</u>	SINGLE COMPARTMENT COUNTER MOUNT, STAINLESS STEEL SINK, 22"X22"X5.5"	ELKAY LRAD222255	AMERICAN STANDARD, EDGEWATER, 4932300.002, SINGLE HANDLE, PULL DOWN SPOUT, 1.8 GPM	1/2"	1/2"	2"	2"	BASKET STRAINER, TAIL PIECE, P-TRAP, SUPPLIES, STOPS, ARCHITECTURAL PLANS FOR LOCATION OF ADA FIXTURES, PROVIDE INSULATION ON SUPPLIES AND DRAIN ON ADA FIXTURES, PROVIDE MANUAL MIXING VALVE TO LIMIT HOT WATER SUPPLY TO 105°F		
<u>S-2</u>	DOUBLE COMPARTMENT COUNTER MOUNT, STAINLESS STEEL SINK, 33"X22"X5.5"	ELKAY LRAD332255	AMERICAN STANDARD, EDGEWATER, 4932300.002, SINGLE HANDLE, PULL DOWN SPOUT, 1.8 GPM	1/2"	1/2"	2"	2"	BASKET STRAINER, TAIL PIECE, P-TRAP, SUPPLIES, STOPS, ARCHITECTURAL PLANS FOR LOCATION OF ADA FIXTURES, PROVIDE INSULATION ON SUPPLIES AND DRAIN ON ADA FIXTURES, PROVIDE MANUAL MIXING VALVE TO LIMIT HOT WATER SUPPLY TO 105°F		
(IB-1)	ICE MAKER WALL BOX	GUY GRAY #MIB1AB	-	-	1/2"	-	-	1/4 TURN VALVE, WATER HAMMER ARRESTOR		
WB-1	CLOTHES WASHER WALL BOX	GUY GRAY #MWB16	-	1/2"	1/2"	2"	2"	1/2 TURN VALVES, REVERSIBLE DRAIN, WATER HAMMER ARRESTORS		
TS-1	TRENCH DRAIN SUMP	ZURN Z-887-FGF	CATCH BASIN	-	-	-	-	SEE DRAWINGS FOR DRAIN WASTE AND VENT SIZE		
(FD-1)	FLOOR DRAIN	JR SMITH FIG 2005	ROUND STRAINER, NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION	-	-	-	-	SEE DRAWINGS FOR DRAIN WASTE AND VENT SIZE, PROVIDE P-TRP WITH TRAP PRIMER CONNECTION.		
(TD-1)	TRENCH DRAIN	ZURN Z-886-FGF	SAND INTERCEPTOR DRAIN WITH CAST IRON GRATES	-	-	-	-	SEE DRAWINGS FOR DRAIN WASTE AND VENT SIZE		
OIL-1	OIL INTERCEPTOR	STRIEM OT-500	FLOW CONTROL, EXTENSIONS AS REQUIRED	-	-	4"	3"	FOR BELOW FLOOR MOUNTING		
US-1	TRAP STANDARD UTILITY SINK, 24"X20" TRAP MOUNT	KOHLER K-6716	KOHLER K-8907 DUAL HANDLE, CHROME PLATED, PALE HOOK, VACUUM BREAKER, INTEGRAL STOPS, 3/4" HOSE END, TOP REINFORCING BAR AND MOUNTING BRACKET	1/2"	1/2"	3"	2"	PROVIDE ADJUSTABLE FLOOR MOUNT TRAP AND GRID DRAIN (K-6673), WALL SUPPORT		
(AS-1)	AUTOPSY SINK	MOPEC AUTOPSY DUALAPPROACH CC300	-	(2)1/2"	(2)1/2"	(2) 1-1/2"	(2) 1-1/2"	SUPPLIES / STOPS, P-TRAP. PROVIDE INSULATION ON SUPPLIES AND DRAIN.		
(HB-1)	NON-FREEZE WALL HYDRANT	WOODFORD MODEL 65	VACUUM BREAKER	-	3/4"	-	-	-		
(HB-2)	WALL HYDRANT	WOODFORD MODEL 101	-	-	3/4"	-	-	-		
ES-1	EMERGENCY SHOWER/EYE WASH	GUARDIAN G1993	FC20 20 GPM FLOW REGULATOR, TMV G3802LF MIXING VALVE	1"	1"	-	-	UNIT TO BE ABS CONSTRUCTION		
SH-1	SHOWER (ACCESSIBLE)	AQUATIC 1363BFSD 36"X36"X75.25"	PRESSURE BALANCE SHOWER VALVE TO LIMIT HOT WATER SUPPLY TO 105°F, HAND HELD SHOWER HEAD WITH 30" SS SLIDE BAR, 60" HOSE, AND VACUUM BREAKER, 1.8 GPM MAX FLOW	1/2"	1/2"	2"	2"	PROVIDE SHOWER GRID DRAIN AND PTRAP, FOLD UP SEAT, L-SHAPED AND VERTICAL SS GRAB BARS, SHOWER ROD, CURTAIN, AND RINGS.		
BFP-1	REDUCED PRESSURE BACK FLOW PREVENTER	WATTS LF009 QT	LEAD FREE, QUARTER TURN VALVES AIR GAP FITTING	-	-	-	-	SEE FLOOR PLANS FOR SIZE		
(YH-1)	NON-FREEZE YARD HYDRANT	WOODFORD MODEL Y1	VACUUM BREAKER	-	1"	-	-	SPECIFY BURY DEPTH		
HR-1	HOSE REEL - AIR	HANNAY 718-30-31-20D	-	-	1/2"	-	-			







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DRAINAGE SIZING CALCULATIONS UPC CHAPTER 7									
	MINIMUM		DRAINAG	E FU (PER TA	FU (PER TABLE 702.1)				
FIXTURE	TRAP ARM	QUANTITY	PRIVATE	PUBLIC	ASSEMBLY	TOTAL			
LAVATORY	1-1/4"	2		1.0		2.0			
SINK KITCHEN DOMESTIC	1-1/2"	1		2.0		2.0			
WC 1.28 GPF TANK	3"	2		4.0		8.0			
BATH OR BATH/SHOWER	1-1/2"	1		2.0		2.0			
SERVICE OR MOP SINK	3"	1		3.0		3.0			
FLOOR DRAIN	2"	1		0.0		0.0			
				TOTAL FI	<b>KTURE UNITS</b>	17.0			

# 5 BUILDING 1 WASTE SERVICE CALCULATION SCALE: NOT TO SCALE

WATER SIZING CALCULATIONS UPC APPENDIX "A"							
		CW FU (PER TABLE A 103.1)					
FIXTURE	QUANTITY	PRIVATE	PUBLIC	ASSEMBLY	TOTAL		
LAVATORY	2		1.0		2.0		
SINK KITCHEN DOMESTIC	1		1.5		1.5		
WC (FLUSH TANK)	2		2.5		5.0		
SHOWER	1		2.0		2.0		
SERVICE OR MOP SINK	1		3.0		3.0		
HOSE BIBB	1		2.5		2.5		
ADDITIONAL HOSE BIBB	5		1.0		5.0		
TOTAL FIXTURE UNITS							
ESTIMATED CONT. FLOW (GPM) FLUSH TANK CHARTS A 103.1(1) & (2)							
MINIMUM PIPE SIZE							
				METER SIZE	1"		
PRESSUR	E LOSS ALLC	WANCE CAL	CULATION				
BUILDING HEIGHT (FT)	20.0		PRESSURE (PSI)	AT MAIN	60		
LONGEST PIPE LENGTH (FT)	100.0						
PRESSURE LOSS AT METER (CHART A	102.2)		5				
ELEVATION LOSS (HEIGHT(FT) * 1(PSI)	/2.33(FT))		8.58				
MINIMUM PRESSURE AT LAST FIXTUR	E (PSI)		15				
PRESSURE LOSS (PSI)	28.58						
AVAILABLE PRESSURE (PSI)	31.42						
MAXIMUM AVAILABLE PRESSURE LOS	31.42						
MAXIMUM DESIGN VELOCITY FOR PIPE SIZING COLD WATER = 8 FPS HOT WATER = 5 FPS (UPC 610.12.1)							

6 BUILDING 1 WATER SERVICE CALCULATION

DRAINAGE SIZING CALCULATIONS UPC CHAPTER 7									
	MINIMUM	DRAINAGE		E FU (PER TA	TOTAL				
FIXTORE	TRAP ARM	QUANTITY	PRIVATE	PUBLIC	ASSEMBLY	TOTAL			
LAVATORY	1-1/4"	3		1.0		3.0			
SINK KITCHEN DOMESTIC	1-1/2"	3		2.0		6.0			
WC 1.28 GPF TANK	3"	2		4.0		8.0			
SHOWER	2"	1		2.0		2.0			
CLOTHES WASHER	2"	1		3.0		3.0			
FLOOR DRAIN	2"	5		0.0		0.0			
TOTAL FIXTURE UNITS									

DRAINAGE SIZING CALCULATIONS UPC CHAPTER 7									
EIVTUDE	MINIMUM		DRAINAGI	E FU (PER TA	J (PER TABLE 702.1)				
FIATORE	TRAP ARM	QUANTITY	PRIVATE	PUBLIC	ASSEMBLY	TOTAL			
LAVATORY	1-1/4"	4		1.0		4.0			
SINK KITCHEN DOMESTIC	1-1/2"	2		2.0		4.0			
WC 1.28 GPF TANK	3"	4		4.0		16.0			
FLOOR DRAIN	2"	1		0.0		0.0			
TOTAL FIXTURE UNITS									

# 3 BUILDING 2 WASTE SERVICE CALCULATION SCALE: NOT TO SCALE

WATER SIZING CALCULATIONS UPC APPENDIX "A"							
		CW FU	(PER TABLE	A 103.1)	TOTAL		
FIXTORE	QUANTIT	PRIVATE	PUBLIC	ASSEMBLY	TOTAL		
LAVATORY	3		1.0		3.0		
SINK KITCHEN DOMESTIC	3		1.5		4.5		
WC (FLUSH TANK)	2		2.5		5.0		
SHOWER	1		2.0		2.0		
CLOTHES WASHER	1		4.0		4.0		
HOSE BIBB	1		2.5		2.5		
ADDITIONAL HOSE BIBB	1		1.0		1.0		
TOTAL FIXTURE UNITS							
ESTIMATED CONT. FLOW (GPM) FLUSH TANK CHARTS A 103.1(1) & (2)							
MINIMUM PIPE SIZE							
				METER SIZE	1"		
PRESSUR	E LOSS ALLC	WANCE CAL	CULATION				
BUILDING HEIGHT (FT)	20.0		PRESSURE (PSI)	AT MAIN	60		
LONGEST PIPE LENGTH (FT)	100.0						
PRESSURE LOSS AT METER (CHART A	102.2)		5				
ELEVATION LOSS (HEIGHT(FT) * 1(PSI)	/2.33(FT))		8.58				
MINIMUM PRESSURE AT LAST FIXTUR	MINIMUM PRESSURE AT LAST FIXTURE (PSI) 15						
PRESSURE LOSS (PSI)		28.58					
AVAILABLE PRESSURE (PSI)		31.42	1				
MAXIMUM AVAILABLE PRESSURE LOSS/100 FT 31.42							
MAXIMUM DESIGN VELOCITY FOR PIPE SIZING COLD WATER = 8 FPS HOT WATER = 5 FPS (UPC 610.12.1)							

4 BUILDING 2 WATER SERVICE CALCULATION SCALE: NOT TO SCALE

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# 1 BUILDING 3 WASTE SERVICE CALCULATION SCALE: NOT TO SCALE

WATER SIZING CALCULATIONS UPC APPENDIX "A"									
		CW FU	(PER TABLE	A 103.1)	τοται				
FIXTURE	QUANTITY	PRIVATE	PUBLIC	ASSEMBLY					
LAVATORY	4		1.0		4.0				
SINK KITCHEN DOMESTIC	2		1.5		3.0				
WC (FLUSH TANK)	4		2.5		10.0				
HOSE BIBB	1		2.5		2.5				
			TOTAL FIX	TURE UNITS	19.5				
ESTIMATED CONT	K CHARTS A	103.1(1) & (2)	15.0						
	MINIMU	1"							
METER SIZE									
PRESSUR	E LOSS ALLC	WANCE CAL	CULATION						
LDING HEIGHT (FT)	HEIGHT (FT) 20.0			PRESSURE AT MAIN (PSI)					
NGEST PIPE LENGTH (FT)	100.0								
ESSURE LOSS AT METER (CHART A	102.2)		5						
EVATION LOSS (HEIGHT(FT) * 1(PSI)	/2.33(FT))		8.58						
IIMUM PRESSURE AT LAST FIXTUR	E (PSI)		15						
ESSURE LOSS (PSI)	28.58								
AILABLE PRESSURE (PSI)	31.42								
XIMUM AVAILABLE PRESSURE LOS	31.42								
(IMUM DESIGN VELOCITY FOR PIPE SIZING COLD WATER = 8 FPS HOT WATER = 5 FPS (UPC .12.1)									

2 BUILDING 3 WATER SERVICE CALCULATION SCALE: NOT TO SCALE



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## GENERAL NOTES

- 1. SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
- 2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

# BUILDING 1 FOUNDATION PLAN - PLUMBING

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



- 5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
- 6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.
- 7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.

8. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE

715, & IMC 602.2.2. DETAILS FOR ALL ASSEMBLY MUST BE

SUBMITTED FOR APPROVAL.

RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS

OF RATED ASSEMBLIES AS REQUIRED. SEAL PER IBC 714.4.3, IBC









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# BUILDING 1 MAIN FLOOR PLAN - PLUMBING

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

- 5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
- 6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.
- 7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.
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# BUILDING 2 FOUNDATION PLAN - PLUMBING

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

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# BUILDING 2 MAIN FLOOR PLAN - PLUMBING

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



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# GENERAL NOTES

- 1. SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
- 2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT

# BUILDING 2 SECOND FLOOR PLAN - PLUMBING

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

HNER E R I NG 5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES. KARTCI E N G I N E 6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS. EXPIRES 2/20/25 7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, Drwn: TAM Chkd: MAK THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES. 8. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS OF RATED ASSEMBLIES AS REQUIRED. SEAL PER IBC 714.4.3, IBC 715, & IMC 602.2.2. DETAILS FOR ALL ASSEMBLY MUST BE SUBMITTED FOR APPROVAL. ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. 17 RDEN ROA VER ciate Ы HOU ARC Th

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## **GENERAL NOTES**

- 1. SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
- 2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

# BUILDING 3 FOUNDATION PLAN - PLUMBING

5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.

6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.

7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.

8. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS OF RATED ASSEMBLIES AS REQUIRED. SEAL PER IBC 714.4.3, IBC 715, & IMC 602.2.2. DETAILS FOR ALL ASSEMBLY MUST BE SUBMITTED FOR APPROVAL.





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# BUILDING 3 MAIN FLOOR PLAN - PLUMBING

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

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# BUILDING 3 SECOND FLOOR PLAN - PLUMBING

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

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#### GENERAL NOTES

- SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
- 2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

#### **BUILDING 4 FOUNDATION PLAN - PLUMBING**

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

- 5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
- 6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.
- 7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.
- 8. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS OF RATED ASSEMBLIES AS REQUIRED. SEAL PER IBC 714.4.3, IBC 715, & IMC 602.2.2. DETAILS FOR ALL ASSEMBLY MUST BE SUBMITTED FOR APPROVAL.





# CHELLAN COUNTY OLDS STATION CAMPUS 425 OHME GARDEN ROAD WENTCHEE, WASHINGTON 98801



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- 1. SLOPE ALL SEWERS @ 1/4" PER FOOT UNLESS APPROVED BY LOCAL JURISDICTION. LINES 4" AND LARGER MAY BE SLOPED AT 1/8" PER FOOT UPON APPROVAL OF LOCAL JURISDICTION AND COMPLYING WITH REDUCED FIXTURE UNIT CAPACITY PER THE UPC.
- 2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
- 6. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMON VENTS.
- 7. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.
- 8. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS OF RATED ASSEMBLIES AS REQUIRED. SEAL PER IBC 714.4.3, IBC 715, & IMC 602.2.2. DETAILS FOR ALL ASSEMBLY MUST BE SUBMITTED FOR APPROVAL.





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 BID SET:
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 2344
 Date:
 01/06/2025

 JDWG ID

P4.01





OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE

#1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT

NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE

UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS





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**NOT** 

**NH** 



PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.







**TENAT** ROA J<sub>Z</sub> GARDEI 425 OHME



BID SET: 01/06/2025 Job: 2344 Date: 01/06/2025 .DWG ID -



SECURE IT AGAINST LATERAL MOVEMENT ONLY.

PENETRATIONS THRU ROOF OF GAS OR WATER

• PROVIDE THIS INSTALLATION FOR ALL PIPE

PIPING TO HEAT RECOVERY UNITS.

### **P5.01**





PROVIDE TAKE OFF -LINE



8



#### **|AIR COMPRESSOR DETAIL**

#### RESIDENTIAL DISHWASHER CONNECTION DETAIL

SCALE: NOT TO SCALE



NOTE: ALL EXPOSED PIPING AND VALVES TO BE HIDDEN BELOW SINK OR COUNTER TOP.

DRAIN WITH P-TRAP



Associates, PS and PLANNERS (209) ASS S **DOH** HITEC 4781 662 662 The ARC (509) HOU

425 OHME

### .DWG ID -

**P5.02** 

Job: 2344 Date: 01/06/2025

01/06/2025

BID SET:

SCALE: NOT TO SCALE \_\_\_\_\_

	ABBREV	IATIONS			P	IPING LEGEND				WSE		IPLIAN	ICE	
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION		GATE VALVE									
A A/C		F			BALL VALVE		1. H <sup>V</sup>	VAC EQUIPME ALUES INDICA	NT SHALL HA	VE MINIMUM PERF ABLE C403.2.3 OF	ORMANCE A	T SPECIFIE	D RATING CO	ONDITIONS NOT LESS THATE HE CONTRACT DOCUMEN
AD	ACCESS DOOR	FC	FLEXIBLE CONNECTION		BALL VALVE WITH BALL VALVE WITH	MEMORY STOP (BALANCING VALVE) HOSE BIBB, CAP & CHAIN	2. TI	HERMOSTATS	:					
ADA	AMERICAN DISABILITIES ACT	FCU	FAN COIL UNIT	,ø'	BUTTERFLY VALV		2.	.1. PROVIDI	E THERMOST	AT WITH 7-DAY PR K (5+2 AND 5+1+1	OGRAMMAB	LE THERMO	STAT CAPAE	BLE OF BEING SET FOR 7-
ADJ	ADJUST, ADJUSTABLE, ADJACENT	FD	FIRE DAMPER OR FIRE DEPARTMENT		GLOBE VALVE	WITH MEMORY STOP (BALANCING VALVE)	2.	.2. THERMO	DSTAT SHALL	HAVE PROGRAMM		P CAPABLE	OF RETAINI	NG THE PROGRAMMING F
AF		FLA	FULL LOAD AMPS	│	PLUG VALVE	CING VALVE	2.	.3. THE THE	ERMOSTAT SHALL		OF MANUAL	OVERRIDE.		
AFF	ABOVE FINISHED FLOOR	FPM FS	FEET PER MINUTE		CHECK VALVE		2.	CAPABL	E OF BOTH H	EATING AND COOL	LING)			
AUA	AIR HANDLING UNIT	FT	FEET	· · · · · · · · · · · · · · · · · · ·	STRAINER W/BALL	VALVE, HOSE BIBB & CAP (GATE VALVE FOR STEAM)	2.	.5. FOR THE WITH "O	ERMOSTATS ( PTIMUM STAF	CONTROLLING HEART" CAPABILITIES.	ATING AND C	OOLING EG	UIPMENT, TH	HE THERMOSTAT SHALL E
AMB	AMBIENT	FTR	FIN TUBE RADIATION		STRAINER, DUPLE	X	2.	.6. HVAC S SHUTDC	YSTEMS SHAL	L BE EQUIPPED W UNOCCUPIED PER	ITH AUTOMA	ATIC CONTR QUIRED BY	ROLS CAPABI SECTION C4	E OF ACCOMPLISHING SI 03.2.4.2.1. THERMOSTATI
AMP	AMPERE, AMPACITY	G	GAS		ANGLE VALVE (SE	CTION VIEW)		CONTRO TEMPER	OLS SHALL BE RATURES DOV	ECONFIGURED TO VN TO 55°F (13°C) (	SET BACK C OR UP TO 85	R TEMPORA °F (29°C).	ARILY OPER	ATE THE SYSTEM TO MAI
ANCH		GA	GAUGE	&	ANGLE VALVE (PL	N VIEW)	2.	.7. PROVIDI THE WS	E DEAD BAND EC OR AS DE	BETWEEN HEATIN	NG/COOLING EMPERATUR	SPACE SEI	NSOR SETPC	INTS OF 5 DEGREES AS F
AP APD	AIR PRESSURE DROP	GAL GPH	GALLONS GALLONS PER HOUR		AUTOMATIC CONT	ROL VALVE, MODULATING ACTUATOR	3. PI		NCING DEVICE	-S IN ALL BRANCH	DUCTS AND			AL DEVICES AS REQUIRE
APPD	APPROVED	GPM	GALLONS PER MINUTE			ROL VALVE, TWO POSITION ACTUATOR	C <sup>4</sup>	408.2.2 OF TH	E WSEC AND	AS INDICATED ON	THE CONTR	ACT DOCUM	MENTS.	
ARCH	ARCHITECT, ARCHITECTURAL	НВ	HOSE BIB			MANO CONTROL VALVE, MODOLATING ACTORICATION	4. SI	EALANTS FOR		DUCTWORK: SEA			JOINTS BET	
AS	AIR STREAM	HD	HEAD	I ────────────────────────────────────	THREE WAY AUTO	MATIC CONTROL VALVE, TWO POSITION ACTUATOR	5 41							
ATC ATM		HP HR	HORSEPOWER	×	AUTOMATIC FLOW	CONTROL VALVE (PRESSURE INDEPENDENT)	5. Al	UCTWORK SH	ALL BE SEALE	ED AS REQUIRED E	BY SECTION	C403.2.8.2 C	OF THE WSE	CF GALVANIZED DOCTWO
AVG	AVERAGE	HRU	HEAT RECOVERY UNIT	ਲ਼	COMBINATION FLO	WMETER/SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)	6. DI	UCTWORK ST	ATIC PRESSU	RE AND SEAL CLA	SS:			
BDD	BACK DRAFT DAMPER	HTG	HEATING	1	SAFETY RELIEF V			DUCT	STATIC		SMACNA	SMACN		
BHP	BREAK HORSE POWER	HZ	HERTZ (CYCLES PER MINUTE)				CON	ISTRUCTION CLASS	PRESSUR RATING	PRESSURE S	EAL CLASS	LEAKAG CLASS	VELOCITY	
BI	BACKWARD INCLINED	ID		<b>│</b>	UNION OR FLANG	(AS INDICATED BY PIPE SIZE - SEE SPEC.)		<b>/</b> "			٨	6	4000 FPM	SEAL TRANSVERSE J
BOD	BOTTOM OF DUCT	IN KW		. ——   	BLIND FLANGE			4	ABOVE 3	PUS OR NEG	A	0	OR LESS	WALL PENETRATIO
BTU	BRITISH THERMAL UNIT	LAT	LEAVING AIR TEMPERATURE					2"	2" TO 3"	POS OR NEG	B	12	2500 FPM	SEAL TRANSVERSE JOI
BTUH	BRITISH THERMAL UNITS PER HOUR	LD	LINEAR DIFFUSER	CWR					1/2" TO 2"		R	10	2500 FPM	SEAL TRANSVERSE
BV	BUTTERFLY VALVE	LF	LINEAR FEET	CWS CHR	CONDENSER WAT	ETURN		I	1/2 102		D	IΖ	OR LESS	JLAL I KANOVEKOE
CAP		LRA		CHS	CHILLED WATER S	UPPLY	7. A	LL DUCTWOR	K SHALL BE IN	ISULATED AS REQ	UIRED BY SE	ECTION C40	3.2.8.2 OF TH	IE WSEC.
CENT			LOUVER	D D	CONDENSATE DR	AIN								R-\/ALLIE
CFM	CUBIC FEET PER MINUTE	MAX	MAXIMUM	G	NATURAL GAS (1/2	PSI OR LESS)		DOCTITIE						
CHR	CHILLED WATER RETURN	MBH	1000 BTU	— HWR —	HEATING HOT WA	FER RETURN	SL	UPPLY / RETUP	RN 5	UNINSULATED AT	TIC, OR CRA	VL SPACE		WEATHERPROOF BARRI
CHS	CHILLED WATER SUPPLY	MCA	MINIMUM CIRCUIT AMPS	—— HWS ——	HEATING HOT WA	TER SUPPLY			WITH	HIN CONDITIONED	SPACE (NOT	CONSIDEF	RED	R-8 (DAMPER AT ENVELO
CI		MOCP	MAXIMUM OVER CURRENT PROTECTION	PC	PUMPED CONDEN	SATE				PART OF THE B		(ELOPE)		PENETRATION)
CLG	CLEAR	NC	NOISE CRITERIA	xx	EXISTING PIPE TO	BE REMOVED		SUPPLY	PLEN	NUM WITHIN INSUL	ATED BUILD	ING ENVELO	OPE	R-3.3
CMU	CONCRETE MASONRY UNIT	NO	NORMALLY OPEN		RISE (SINGLE LINE									
CNDS	CONDENSATE	NOM	NOMINAL			E - PLAN VIEW)								NO INSULATION REQUIN
СО	CARBON MONOXIDE	OA	OUTSIDE AIR		BOTTOM TAKEOF		ERV AN	7 HEATED SUP ND EXHAUST A	AIR PLEN	NUM WITHIN INSUL	ATED BUILD	ING ENVELO	OPE	NO INSULATION REQUIR
COMP		OAI OC		<b>↓</b>	PIPE BREAK (SING	LE LINE)								
CONN	CONNECTION OR CONNECT	OD	OUTSIDE DIAMETER				8. Al	ECTION C403.	3 OF THE WSE	EC AND AS DESCR	IBED IN THE	TEMPERAT	URE CONTR	CAPABILITY AS REQUIRED OL SEQUENCES.
СТ	COOLING TOWER	ODP	OPEN DRIP PROOF	1	HVAC	C BASIC OF DESIGN	9. A	IR ECONOMIZI	ERS SHALL BE	E CAPABLE OF PRO	OVIDING PAF	RTIAL COOL	ING EVEN W	HEN ADDITIONAL MECHAN
CTBD	COOLING TOWER BLOW DOWN	OV	OUTLET VELOCITY	STATE: WAS	HINGTON		- C(	OOLING IS RE	QUIRED TO M	EET THE REMAIND	DER OF THE		OAD.	
CUH		PCF	POUNDS PER CUBIC FEET	89°F Db Sl 65°F Wb Sl	JMMER C JMMER	OUNTY: CHELAN CLIMATE ZONE: 5B	10. C4 W	403.2.4.7 ECOI VITH A COOLIN	NOMIZER FAU IG CAPACITY (	ILT DETECTION AN OF 54,000 BTU/H O	ID DIAGNOST R GREATER	FICS (FDD). LISTED IN 1	AIR-COOLED	UNITARY DIRECT-EXPAN .2.3(1) THROUGH C403.2.3
CWR	CHECK VALVE	РЛ	PRESSURE DROP PHASE	10°F Wb W	/INTER	DESIGN ALTITUDE 778 FT ABOVE SEA LEVEL	E( DI	QUIPPED WITH	H AN ECONOM FDD) SYSTEM	IZER IN ACCORDA	ANCE WITH S H THE FOLLC	ECTION C4 WING:	03.3 SHALL II	NCLUDE A FAULT DETECT
CWS	CONDENSER WATER SUPPLY	PRV	PRESSURE REDUCING VALVE	INDOOR AREA DESIG	N CONDITIONS	SUMMER WINTER	10	0.1. THE FOL OPERAT	LOWING TEM	IPERATURE SENS	ORS SHALL E	BE PERMAN TURN AIR.	ENTLY INSTA	LLED TO MONITOR SYST
D	DRAIN	PSI	POUNDS PER SQUARE INCH	GENERAL SPACE DES	SIGNATION	Db % Db %	10	0.2. THE UNI FREE CO	IT CONTROLLI	ER SHALL BE CON ABLE, ECONOMIZE	FIGURED TO	PROVIDE S	SYSTEM STA	TUS BY INDICATING THE F
DB	DRY BULB	PSIA	POUND PER SQUARE INCH - ABSOLUTE				- 10		CLE ACTIVE.	THE CURRENT VA		H SENSOR.		и тя:
DDC	DIRECT DIGITAL CONTROL	PSID	DIFFERENTIAL	OFFICE, ETC.		75 50 72 50		10.3.1.		RATURE SENSOR	FAILURE/FAU	JLT.		5210.
DEG	DEGREE	PSIG	POUND PER SQUARE INCH - GAUGE					10.3.3.	ECONOMIZI	ING WHEN THE UN	IT SHOULD N	NOT BE ECC	DNOMIZING.	
DEMO		PVC				AIR OUTLET CALLOUT	44 0	10.3.4.						
DF		RA	RETURN AIR	1			TI. SI	HERMOSTATIC		C403.2.1 EXCEPT V	WHERE PERN	MITTED IN, E	EXCEPTIONS	1 THROUGH 2 OF THE W
DIA	DIAMETER	RET	RETURN	1		XXX [X] XXX,XXX,XX°	12. PE	ER C405.8 FRA	ACTIONAL HP	FAN MOTORS THA	T ARE 1/12 H		TER AND LE	SS THAN 1 HP WHICH ARI
DIFF	DIFFUSER	RH	RELATIVE HUMIDITY	1			C0 M	OVERED BY T	ABLES C405.8 OR EFFICIENC	(3) AND C405.8(4) \$ Y OF 70 PERCENT.	SHALL BE EL	ECTRONIC	ALLY COMMU	TATED MOTORS OR SHA
DIM	DIMENSION	RLF	RELIEF	4			13. M	IOTOR EFFICIE	ENCY SHALL N	NOT BE LESS THAN		JM CALLOU	TS PER TABI	.E C405.8(1) THROUGH C4
		RPM RTU		1			Tł	HE WSEC FOR	R FULL LOAD E	EFFICIENCIES.				
DP	DIFFERENTIAL PRESSURE	SA	SUPPLY AIR	1		AIR OUTI FT TYPE	14. DI AI	EMAND CONT	ROL VENTILA	TION: PROVIDE DE S GREATER THAN	EMAND CON <sup>-</sup> 25 PEOPI F/1	ROL VENTI ,000 SF. C4	ILATION ON A 03.2.6.2 WSF	ALL SPACES GREATER TH C.
DPR	DAMPER	SD	SMOKE DETECTOR	1		AIRFLOW (CFM)	15 0	403.7.8 1 SHUT		S FOR BUILDING י				EXHAUST OPENINGS AND
DPS	DIFFERENTIAL PRESSURE SWITCH	SE	SMOKE EXHAUST	1		4 SIZE (IN) OF CONNECTING BRANCH DUCT			STAIRWAY AN	ID ELEVATOR HOIS			HALL BE PRO	VIDED WITH CLASS I MOT
DS	DOWNSPOUT, DISCONNECT SWITCH,	SEN	SENSIBLE	]		(°) ANGLE OF THROW, DOWN FROM HORIZONTAL		OWNSTREAM	OF THE SHUT	OFF DAMPER.				
DWG	DRAWING	SF	SQUARE FEET	1			E) 1. G	AGEPTIONS: BRAVITY (NONN	MOTORIZED) [	DAMPERS SHALL E	BE PERMITTE	D IN LIEU C	F MOTORIZE	D DAMPERS AS FOLLOW
DX		SFD	COMBINATION SMOKE/FIRE DAMPER	4			1	1.1 REL	IEF DAMPERS	S SERVING SYSTEI	MS LESS THA E STORIES I№	AN 5,000 CF N HEIGHT	M TOTAL SU	PPLY SHALL BE PERMITTE
EA EAHU		SHC	SENSIBLE HEAT CAPACITY STATIC PRESSURE					1.2 GR/	AVITY (NONMO	OTORIZED) DAMPE	RS WHERE	THE DESIGN	OUTDOOR	AIR INTAKE OR EXHAUST
EAT	ENTERING AIR TEMPERATURE	SS	STAINLESS STEEL	1				1.3 SYS	STEMS SERVIN		REQUIRE CC	NTINUOUS	OPERATION	FOR 24/7 OCCUPANCY S
EF	EXHAUST FAN	SUP	SUPPLY	1			2. SI	HUTOFF DAME 2.1 COM	PERS ARE NO	T REQUIRED IN: R INTAKES.				
ELEC	ELECTRICAL	Т	TEMPERATURE OR THERMOSTAT	1				2.2 SYS		NG AREAS WHICH				IN ANIMAL HOSPITALS, K
ELEV	ELEVATOR, ELEVATION	TEFC	TOTALLY CLOSED FAN COOLED	4				2.3 SUE		IST SYSTEMS OR (	OTHER SYST	EMS THAT	ARE REQUIR	ED TO OPERATE CONTINU
EMS		TSP	TOTAL STATIC PRESSURE	1				1'HE 2.4 TYP	E IIN I ERINA (10 PE I GREASE E	NAL MECHANICAL	S OR OTHER	SYSTEMS	WHERE DAM	PERS ARE PROHIBITED B
ENCL	ENCLOSURE	TSTAT	THERMOSTAT	1				INTI 2.5 LINC		MECHANICAL COD	E TO BE IN T UNCON	HE AIRSTR	EAM. TOR HOISTM	VAY SHAFTS THAT ARE O
ENG	ENGINEER	ТҮР	TYPICAL	]				2.0 010	CONNECTE	D TO UNCONDITIC	ONED SPACE	S.		
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	UC	UNDERCUT DOOR	1			17. C	OMMISSIONIN	G: FOR ALL C	OOLING SYSTEMS	LARGER TH	AN 240,000	BTUH, OR HE	EATING SYSTEMS LARGE
EQ	EQUAL	V		4			30 N0	00,000 BTUH M OT LIMITED TO	IECHANICAL S D; A COMMISS	SYSTEM MUST BE SIONING PLAN, A P	COMMISSION RELIMINARY	NED IN ACC	ORDANCE W ONING REPO	ITH SECTION C408.2 INCL RT, FINAL COMMISSIONIN
EQUIP		VAV VFI	VARIABLE AIR VOLUME VFI OCITY	1			AI CI	ND COMPLETI	ON OF COMM REQUIRED TO	ISSIONING COMPL BE GIVEN TO THE	LIANCE CHEC	CKLIST. A C DING OFFIC	OPY OF THE	COMMISSIONING COMPL
ET	EXPANSION TANK	VFD	VARIABLE FREQUENCY DRIVE	1			10 5							
EUH	ELECTRIC UNIT HEATER	WB	WET BULB TEMPERATURE	1			IO. PI	YSTEMS OPER		ING DOCUMENTS	AS DESCRIB			THROUGH C103.6.4 TO T
EWH	ELECTRIC WALL HEATER	WC	WATER COLUMN	1			W Di	RAWINGS SHA		THE LOCATION AN	ND PERFORM	IOE AS REQ	OIKED BY SE	ENT, GENERAL CONFIGU
EWT		WG		1			D	UCIWORK AN	ט צוצואG DIST	I KIBU HON SYSTEI	IVIS, INCLUDI	NG FLOW R	AIES AS A N	IINIMUM.
EXIST	EXISTING	WTD	WATER TEMPERATURE DIFFERENCE	1			19. C4	402.5.1.2 BUILI	DING AIR LEAL	KAGE TESTING		2.5 1 2 TO E		FAKAGE RATE IS I ESS T
	· <del>-</del>	- -					A.							

- CFM/SFAT PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE.



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 $\geq$ nee Ave Suite 500, ' (509) 662-4781  $\land \vdash$ 

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AD	DITIONAL MECHANICAI OPTIONS USED PER W	_ EFFICII SEC 406	ENCY PACKAGE - BUILDING 1											
OCCUPANCY GROUP EFFICIENCY PACKAGE POINTS DOCUMENTATION														
В	HIGH PERFORMANCE DEDICATED OUTDOOR AIR SYSTEM IN ACCORDANCE WITH SECTION C406.7	4	ERV SCHEDULE SHEET M6.01											
В	REDUCED LIGHTING POWER: OPTION 2 IN ACCORDANCE WITH SECTION C406.3.2	4	SEE SCHEDULE SHEET M6.01											
TOTAL		8												



![](_page_77_Picture_2.jpeg)

FANS IN SPACE.

- 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
- 2 EXTEND EQUIPMENT PAD 12" FROM EQUIPMENT ON ALL SIDES. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT SLOPE.
- 3 WALL MOUNTED HVLS FAN SPEED CONTROLLER TIED TO BOTH

#### **GENERAL NOTES**

- 1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
- 3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..

![](_page_77_Figure_13.jpeg)

- 6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED. BALANCING DAMPER NOT SHOWN AT ALL LOCATIONS FOR OVERALL DRAWING CLARITY. CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON ALL BRANCH TAKEOFFS AND WHERE SHOWN ON DRAWINGS. SEE DETAIL 1/M5.01.
- 7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
- 8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION

![](_page_77_Picture_20.jpeg)

![](_page_77_Picture_21.jpeg)

### 801 TON **ASHIN** EE, WENA' $\square$ ROA 425 OHME GARDEN R

![](_page_77_Picture_24.jpeg)

 BID SET:
 01/06/2025

 Job:
 2344
 Date:
 01/06/2025

 JDWG ID

**M1.01** 

AD	DITIONAL MECHANICAI OPTIONS USED PER W	_ EFFICIE SEC 406	ENCY PACKAGE - BUILDING 2											
OCCUPANCY GROUP EFFICIENCY PACKAGE POINTS DOCUMENTATION														
В	HIGH PERFORMANCE DEDICATED OUTDOOR AIR SYSTEM IN ACCORDANCE WITH SECTION C406.7	4	ERV SCHEDULE SHEET M6.01											
В	REDUCED LIGHTING POWER: OPTION 2 IN ACCORDANCE WITH SECTION C406.3.2	4	SEE SCHEDULE SHEET M6.01											
TOTAL		8												

![](_page_78_Figure_1.jpeg)

![](_page_78_Picture_2.jpeg)

- 1 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
- 2 EXTEND EQUIPMENT PAD 12" FROM EDGE OF EQUIPMENT ON ALL SIDES. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT SLOPE. COORDINATE WITH GENERATOR PAD TO THE NORTH.
- 3 PROVIDE ACCESS PANEL AND GYPSUM BOARD BOX OUT TO BRANCH BOX. PROTECT BRANCH BOX FROM INSULATION ABOVE.

#### **GENERAL NOTES**

- 1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
- 3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..

#### BUILDING 2 - MAIN FLOOR PLAN - MECHANICAL

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

- 6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED. BALANCING DAMPER NOT SHOWN AT ALL LOCATIONS FOR OVERALL DRAWING CLARITY. CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON ALL BRANCH TAKEOFFS AND WHERE SHOWN ON DRAWINGS. SEE DETAIL 1/M5.01.
- 7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
- 8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION

![](_page_78_Picture_22.jpeg)

![](_page_78_Picture_23.jpeg)

![](_page_78_Picture_24.jpeg)

## **1**08 <u>Ó</u> TON WASHING' WENATCHEE, D I ROA 425 OHME GARDEN R

![](_page_78_Picture_26.jpeg)

BID SET: 01/06/2025 Job: 2344 Date: 01/06/2025

![](_page_79_Figure_0.jpeg)

![](_page_79_Picture_1.jpeg)

- 1 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
- (2) COOLER CONDENSING UNIT PROVIDED WALK-IN-COOLER MANUFACTURER. SEE SPEC SECTION 13 21 26 FOR UNIT DEETAILS. INSTALLATION BY DIV 23 IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
- 3 WALL MOUNTED HVLS FAN SPEED CONTROLLER TIED TO BOTH FANS IN SPACE.
- 4 PROVIDE ACCESS PANEL AND GYPSUM BOARD BOX OUT ABOVE BOTTOME CORD OF TRUSS TO BRANCH BOX. PROTECT BRANCH BOX FROM INSULATION ABOVE.

#### **GENERAL NOTES**

- 1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
- 3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..

BUILDING 2 - SECOND FLOOR PLAN - MECHANICAL SCALE: 3/16" = 1'-0"

- 6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED. BALANCING DAMPER NOT SHOWN AT ALL LOCATIONS FOR OVERALL DRAWING CLARITY. CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON ALL BRANCH TAKEOFFS AND WHERE SHOWN ON DRAWINGS. SEE DETAIL 1/M5.01.
- 7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
- 8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION

![](_page_79_Picture_21.jpeg)

![](_page_79_Picture_22.jpeg)

![](_page_79_Figure_23.jpeg)

### **ASHIN** 'CHEE, WENAT ROAD GAR 425 OHME

![](_page_79_Picture_25.jpeg)

BID SET: 01/06/2025 Job: 2344 Date: 01/06/2025

**M2.02** 

	Energ	T yy Measure Cree	able C406.1 dit Requireme	ents - BUIL	DING 3								
Required Credits for			Oc	cupancy G	iroup			POINTS					
Projects	Sections	Group R-1	Group R-2	Group B	Group E	Group M	All Other	MET					
New building energy efficiency credit requirement	C406.2			42				0 PER Table C406.2					
Table C406.2 Efficiency Measure Credits - ACHIEVED													
Moosuro Titlo	Applicable	PRORATING			Occupan	icy Group							
measure mue	Section	FLAG	Group R-1	Group R-2	Group B	Group E	Group M	All Other					
HIGH PERFORMANCE DOAS	C406.2.2.6				21								
20% REDUCED LIGHTING POWER	C406.2.3.2				36								

![](_page_80_Figure_1.jpeg)

![](_page_80_Picture_2.jpeg)

- 1 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
- 2 EXTEND EQUIPMENT PAD 12" FROM EQUIPMENT ON ALL SIDES. SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT SLOPE.

#### **GENERAL NOTES**

- 1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
- 3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..

![](_page_80_Picture_12.jpeg)

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

- 6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED. BALANCING DAMPER NOT SHOWN AT ALL LOCATIONS FOR OVERALL DRAWING CLARITY. CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON ALL BRANCH TAKEOFFS AND WHERE SHOWN ON DRAWINGS. SEE DETAIL 1/M5.01.
- 7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
- 8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION

![](_page_80_Picture_21.jpeg)

 BID SET:
 01/06/2025

 Job:
 2344
 Date:
 01/06/2025

 JDWG ID

KARTCHNER E N G I N E E R I N G

![](_page_80_Picture_25.jpeg)

![](_page_81_Figure_0.jpeg)

![](_page_81_Picture_1.jpeg)

- 1 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
- (2) ROUTE DUCTING IN ATTIC SPACE AND DROP TO DIFFUSER AS SHOWN. DUCTING IN UNCONDITIONED ATTIC SPACE SHALL BE INSULATED WITH MINIMUM R-6 INSULATION.
- 3 WALL MOUNTED HVLS FAN SPEED CONTROLLER TIED TO BOTH FANS.
- PROVIDE ACCESS PANEL AND GYPSUM BOARD BOX OUT TO BRANCH BOX. PROTECT BRANCH BOX FROM INSULATION ABOVE.

#### **GENERAL NOTES**

- 1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
- 3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..

#### BUILDING 3 - SECOND FLOOR PLAN - MECHANICAL

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

- 6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED. BALANCING DAMPER NOT SHOWN AT ALL LOCATIONS FOR OVERALL DRAWING CLARITY. CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON ALL BRANCH TAKEOFFS AND WHERE SHOWN ON DRAWINGS. SEE DETAIL 1/M5.01.
- 7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.
- 8. SOUND LINING IN DUCT IS INDICATED ON DRAWING WITH DASHED LINE INSIDE DUCT. DUCT SIZE SHOWN IS THE INSIDE OF THE DUCT AND DOES NOT ACCOUNT FOR 1" OF ADDITIONAL INTERNAL SOUND DUCT INSULATION

![](_page_81_Picture_22.jpeg)

![](_page_81_Picture_23.jpeg)

80 ASHIN EE. WEN  $\square$ ROA 425 OHME GARDEN R 

![](_page_81_Picture_25.jpeg)

 BID SET:
 01/06/2025

 Job:
 2344
 Date:
 01/06/2025

 JDWG ID

![](_page_82_Figure_0.jpeg)

![](_page_82_Figure_1.jpeg)

![](_page_82_Figure_2.jpeg)

![](_page_82_Figure_3.jpeg)

![](_page_82_Figure_4.jpeg)

![](_page_82_Figure_5.jpeg)

3 CONDENSING UNIT GROUND MOUNT SUPPORT DETAIL SCALE: NOT TO SCALE

**M5.01** 

EXTENDED BEYOND UNIT FOOTPRINT 12"

IN ALL DIRECTIONS

![](_page_83_Picture_0.jpeg)

![](_page_83_Picture_2.jpeg)

![](_page_83_Picture_3.jpeg)

![](_page_83_Figure_5.jpeg)

BID SET: 01/06/2025 Job: 2344 Date: 01/06/2025 .DWC ID -

**M5.02** 

3 GROUND MOUNT AHU ERV SCALE: NOT TO SCALE

				Ν	IAKEU	IP AIF	R UNIT	Г SC	HED	DULE	Ξ					
								EVA	PORATI	/E COO	LING	ELECT	RICAL			
#	SERVICE	MANUF.	MODEL NO.	CFM	OSA (CFM)	ESP (")	OUPUT (KW)	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	VOLT/PH	Motor HP	MCA/MOP	(LBS)	NOTES
MAU 1	BUILDING 2	MSX-P109-H12- MF	975	975	.5	25	96	64	66.1	64	230/ 1	1/4	81.6/90	1107	1, 2, 3, 4, 5	
NOTES	1. PROVIDE FACT	ORY DISCONNEC	·T. 3. F	PROVIDE MO	DULATING	SCR ELEC		Γ 5.Ι	PROVIDI	E FREEZ	E PROT	ECTION DR	AIN KIT			
	2. PROVIDE FACT FOR HORIZON1	ORY CURB TAL DISCHARGE	4. F	PROVIDE CC	NTROL PAN	NEL										

ELECTRIC HEATER SCHEDULE AIR FLOW (CFM) TAG MANUF. MODEL NO. SERVICE  $\left( \begin{array}{c} EH \\ 1 \end{array} \right)$ INDEECO WRI RESTROOM 40 NOTES:

1. PROVIDE WALL MOUNTING BRACKET KIT FOR SEMI-RECESSED INSTALATION.

2. PROVIDE UNIT MOUNTED THERMOSTAT

												ENER	GY R	ECO\	/ERY	UNIT	SCHE	DULE												
								SUPPLY	,				EXHAUST	Г			SUMME	R PERFORM	ANCE			WINTER	R PERFORM	ANCE		EL	ECTRICA	L		
TAG	MANUF.	MODEL NO.	SERVICE	DRIVE TYPE	WATT / CMF	AIR FLOW (CFM)	ESP (INCH)	WATTS	HP	FAN SPEED (RPM)	AIR FLOW (CFM)	ESP (INCH)	WATTS	HP	FAN SPEED (RPM)	OSA EAT DB/WB (°F)	SUPPLY DB/WB (°F)	RETURN DB/WB (°F)	EXH EAT DB/WB (°F)	SENS EFF (%)	OSA EAT DB/WB (°F)	SUPPLY DB/WB (°F)	RETURN DB/WB (°F)	EXH EAT DB/WB (°F)	SENS EFF (%)	VOLT / PH	MCA	МОСР	WEIGHT (LBS)	NOTES
ERV 1.1	GREENHECK	MINIVENT-450- VG	BUILDING 1 LEFT OFFICE	DIRECT	0.56800	165	0.5	93.7	1/4	1262	165	0.5	93.7	1/4	1280	95 / 68	79 / 63	75 / 62	92 / 67	81.9	6 / 4	59/ 48	72 / 55	18 / 17	82.4	230/1	4.1	15	160	1, 2, 3, 4, 5, 6, 7
ERV 1.2	GREENHECK	MINIVENT-450- VG	BUILDING 1 LEFT OFFICE	DIRECT	0.56800	165	0.5	93.7	1/4	1262	165	0.5	93.7	1/4	1280	95 / 68	79 / 63	75 / 62	92 / 67	81.9	6 / 4	59/ 48	72 / 55	18 / 17	82.4	230/1	4.1	15	160	1, 2, 3, 4, 5, 6, 7
ERV 1.3	GREENHECK	ERVE-45-30L	BUILDING 1 GARAGE	BELT	0.59500	2880	0.5	1713	1-1/2	975	2880	0.5	1713	1-1/2	950	95 / 68	79 / 63	75 / 62	92 / 67	91	6 / 4	59/ 48	72 / 55	17.8 / 17.0	81.9	230/1	24.5	30	1195	1, 2, 3, 4, 5, 6, 7
ERV 2.1	GREENHECK	MINIVENT-450- VG	BUILDING 2 OFFICES	DIRECT	0.51200	290	0.5	148.5	1/4	1450	215	0.5	148.5	1/4	1347	95 / 68	82 / 64	75 / 62	92 / 67	84.7	6 / 4	45 / 37	72 / 55	16 / 16	85.6	230/1	4.1	15	160	1, 2, 3, 4, 5, 6, 7
ERV 2.2	GREENHECK	ERV-20-15L	BUILDING 2 CORONER'S WAREHOUSE	BELT	0.68800	1000	0.8	688	3/4	1260	1000	0.8	688	3/4	1217	95 / 68	79 / 63	75 / 62	92 / 67	82.5	6 / 4	59/ 48	72 / 55	17 / 16	83	230/1	17.5	20	708	1, 2, 3, 4, 5, 6, 7
ERV 3.1	GREENHECK	MINIVENT-750- VG	BUILDING 3 OFFICES	DIRECT	0.53400	630	0.5	336	3/4	1060	500	0.5	336	3/4	1066	95 / 68	81 / 64	75 / 62	92 / 67	85.1	6 / 4	50 / 41	72 / 55	15 / 15	85.6	230/1	12.5	15	240	1, 2, 3, 4, 5, 6, 7
<u>NOTES:</u> 1. PR 2. PR 3. PR	OVIDE BACKDR/ OVIDE MERV 8 F OVIDE ECM SPE	AFT DAMPER ON FILTER EED CONTROL	EXHAUST AND INTAKE	<u> </u>	PROVIDE PROVIDE PROVIDE	CEILING HARDWII PROGRA	MOUNTIN RED POWI MMABLE	G HARDW ER CONNE TIMER TO	ARE ECTION OPERATE				SINESS HC	OURS																

			BC CONTROL	LER SO	CHE	DUL	E							
				E	ELECTR	ICAL		# OE						
#	LOCATION	FAN COIL SERVED	MANUF./ MODEL NO.	VOLT	PH	MCA	МОСР	# OF PORTS	NOTES					
BDU 2.1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
BDU 2.2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													
BDU 3.1	CORRIDOR CR-8	$ \begin{array}{c} FC \\ \hline 3.1.1 \\ \hline 3.1.2 \\ \hline 3.1.3 \\ \hline 3.1.4 \\ \hline 3.1.4 \\ \hline \end{array} $	LG PMBD3640	208 / 230	1	1	15	4	1					
BDU 3.2	CORRIDOR CR-5	FC 3.2.1 FC 3.2.2 FC 3.2.3	LG PMBD3630	208 / 230	1	1	15	3	1					
BDU 3.3	CORRIDOR CR-5	FC 3.3.1 FC 3.3.2 FC 3.3.3	LG PMBD3630	208 / 230	1	1	15	3	1					
BDU 3.4	CORRIDOR CR-5	FC 3.4.1 FC 3.4.2	LG PMBD3620	208 / 230	1	1	15	2	1					
NOTES: 1. PR UN	OVIDE SHUTC	OFF VALVE FOR EACH BRANCH LINE	E AND CAP ANY											

					EXH/	AUS <sup>-</sup>	ΓFA	N SC	HED	ULE							
						AIR	ESP			SOUND		ELECTF	RICAL		WEIGHT		NOTEO
TAG	SERVICE	LOCATION	MANUF.	MODEL NO.	FAN TYPE	(CFM)	(")	DRIVE	КРМ	SONES INLET	VOLT/PH	MOTOR HP	BHP	FLA	(LBS)	CONTROL	NOTES
EF 1	MAINT. BAY VEHICLE EXHAUST	MAINTENANCE BAY	ASCENT SYSTEMS	RD-121-30	SIDE WALL CENTRIFUGAL	1200	5.8	DIRECT	1280	-	230/1	3	2.45	9.6	145	INTERLOCK WITH HOSE REEL CONTROL	1, 2, 3, 4
EF 2	CORONER EXHAUST	CORONER'S	GREENHECK	CUE-090	SIDE WALL CENTRIFUGAL	975	0.5	DIRECT	1280	16.1	230/1	1.5	1.27	-	145	INTERLOCK WITH MAU-1	1
EF 3	COMPRESSOR ROOM	COMPRESSOR ROOM	GREENHECK	SE1-14-440-V G	SIDEWALL PROP FAN	950	0.5	DIRECT	1426	11.2	115/1	1/2	0.26	6.6	43	INTERLOCK WITH L-2	1
NOTES:																	

PROVIDE UNIT MOUNTED DIAL SPEED CONTROL ARRANGEMENT 4 CONFIGURATION

PROVIDE RIS VIBRATION ISOLATION AND BIRD SCREEN ON DISCHARGE

	ELEC	TRICAL		WEIGHT	
KW	STEPS	VOLT / PH	AMPS	(LBS)	NOTES
0.5	1	120 / 1	4.6	9	1, 2

		VEF	IICLE EX	(HAUST	T HOSE	REEL	SCHEDU	JLE						
TAG	MNUFACTURER	MODEL NO.	SERVICE	AIR FLOW (CFM)	HOSE DIAMETER (INCH)	HOSE LENGTH (FEET)	MOUNTING	WEIGHT (LBS)	NOTES					
VH 1	VH 1ASCENT SYSTEMSVH-420BCVEHICLE EXHAUST300420FROM STRUCTURE ABOVE7101, 2													
NOTES: 1. PRO 2. PRO	OVIDE A4STA ADAP OVIDE ADJUSTABLE	TER WITH NEOP CONNECTOR A	RENE BOOT. ND SS DAMPER											

7. PROVIDE CEILING SERVICE ACCESS PER MANUFACTURERS REQUIREMENTS

NOTES:1. ENERGY RECOVERY UNIT EFFICIENCIES SHALL MEET THE CURRENT2.PROVIDE FACE & BYPASS FOR ECONOMIZER OPERATION.<br/>3.WSFC REQUIREMENTS.3.PROVIDE BYPASS DEFROST SYSTEM

					L	OUV	ER SCH	IEDUL	.E						
						AIR		PRESS.		SIZE		MIN.	DAMPE	R	
TAG	MANUF.	MODEL NO.	SERVICE	TYPE	MATERIAL	FLOW (CFM)	(FPM)	DROP ("WC)	WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	AREA (SF)	ACTUATOR	POWER	NOTES
	GREENHECK	ESD-403	INTAKE/RELIEF	DRAINABLE BLADE	ALUMINUM	165	545	0.1	12	12	4	0.3	OPEN/CLOSE	24V	1, 2, 3
$\begin{pmatrix} L \\ 2 \end{pmatrix}$	GREENHECK	ESD-403	INTAKE/RELIEF	DRAINABLE BLADE	ALUMINUM	290	426	0.05	24	12	4	0.7	OPEN/CLOSE	24V	1, 2, 3
$\begin{pmatrix} L \\ 3 \end{pmatrix}$	GREENHECK	ESD-403	INTAKE/RELIEF	DRAINABLE BLADE	ALUMINUM	630	426	0.05	30	18	4	1.5	OPEN/CLOSE	24V	1, 2, 3

NOTES:

PROVIDE 1/2"x1/2" 19 GAUGE ALUMINUM BIRD SCREEN ON INSIDE OF LOUVER

PROVIDE BAKED ENAMEL FINISH OF COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD COLORS.

4. PROVIDE WITH CP-1 ASCENT SYSTEMS REMOTE START

PROVIDE MOTORIZED BACKDRAFT DAMPER WITH ACTUATOR. DAMPER SHALL BE LOW LEAKAGE TYPE NOT TO EXCEED 4 CFM/SF LEAKAGE WHEN TESTED IN ACCORDANCE WITH AMCA 5000 @ 1.0" WC.

![](_page_84_Picture_29.jpeg)

![](_page_84_Picture_30.jpeg)

**2**801 NOL WASHING WENATCHEE, OLDS STA 425 OHME GARDEN ROAD

![](_page_84_Picture_32.jpeg)

ыD SET: 01/06/2025 Job: 2344 Date: 01/06/2025 .DWG ID -

						FAN		IL HE		/IP - II	NDOC	DR UN	IIT				
INTERLOCK WITH FAN	SERVED	MODEL "	FA	N	COOL	ING @ 9	6.2°F	TOTAL HEATING	HEATING HSPF2 @47°F	ELE		CONNECTI	ON	BACKUP ELECTRIC HEAT	WEIGHT	O.A.	NOTES
COIL	ВХ	MODEL#	CFM	TYPE	EAT (DB)	EAT (WB)	T.C. (MBH)	MBH	MBH	VOLT	PHASE	RATED AMPS	MOCP	(KW)		(CFM)	
FC 1.1	HP 1.1	LG LMN249HVT	597	DIRECT	95	75	24	25.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 1.2	HP 1.2	LG LSN090HSV5	268	DIRECT	95	75	9	10.9	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 1.3	HP 1.3	LG LVN600HV	597	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 1.4	HP 1.4	LG LVN600HV	1400	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 1.5	HP 1.5	LG LMN249HVT	558	DIRECT	95	75	18	21.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.1.1			558	DIRECT	95	75	18	21.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.1.2	HP	LG LSN 181HSV5	558	DIRECT	95	75	18	21.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.1.3	2.1	LG LSN120HSV5	282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 2.1.4		LG LSN181HSV5	558	DIRECT	95	75	18	21.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.2.1		LG LSN181HSV5	558	DIRECT	95	75	18	21.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.2.2	HP		254	DIRECT	95	75	7	8.1	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 2.2.3	2.2	LG LMN079HVT	254	DIRECT	95	75	7	8.1	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 2.2.4			254	DIRECT	95	75	7	8.1	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 2.3	HP 2.3	LG LVN600HV	597	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.4	HP 2.4	LG LVN600HV	1400	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 2.5	HP 2.5	LG LVN600HV	1400	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 3.1.1			597	DIRECT	95	75	24	25.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 3.1.2	HP	LG LMN249HVT	597	DIRECT	95	75	24	25.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 3.1.3	3.1	LG LSN090HSV5	268	DIRECT	95	75	9	10.9	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.1.4		LG LSN120HSV5	282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.2.1		LG LSN090HSV5	268	DIRECT	95	75	9	10.9	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.2.2	$\begin{array}{c} HP\\ \hline 3.2 \end{array}$		282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.2.3		LG LSN120HSV5	282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.3.1		LG LSN090HSV5	268	DIRECT	95	75	9	10.9	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.3.2	$\begin{array}{c} HP\\ \hline 3.3 \end{array}$	LG LMN249HVT	597	DIRECT	95	75	24	25.6	-	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 3.3.3		LG LSN120HSV5	282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.4.1	HP		282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.4.2	3.4	LG LONTZUHSV5	282	DIRECT	95	75	12	13.6	-	208/230	1	0.4	15	N/A	18.3	0	1, 2, 3, 4, 5, 6
FC 3.5	HP 3.5	LG LVN600HV	597	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6
FC 3.6	HP 3.6	LG LVN600HV	1400	DIRECT	95	75	52.5	56.5	9.2	208/230	1	0.4	15	N/A	25.6	0	1, 2, 3, 4, 5, 6

NOTES:

PROVIDE INTEGRATED COOLING COIL.
 PROVIDE STANDALONE PROGRAMMABLE THERMOSTAT.
 PROVIDE FILTER.
 INTERLOCK EF-1 & EF-2
 INTERLOCK FURNACE W/ ASSOCIATED MOTORIZED DAMPER ON O.A. DAMPER.

	HIGH VELOCITY LOW SPEED FAN SCHEDULE																
						AIR	ESP			SOUND	ELECTRICAL			WEIGHT			
TAG	SERVICE	LOCATION	MANUF.	MODEL NO.	FAN TYPE	FLOW (CFM)	(")	DRIVE	RPM	SONES INLET	VOLT/PH	MOTOR HP	BHP	FLA	(LBS)	CONTROL	NOTES
HVLS 1.1	BUILDING 1	MAINTENANCE BAY	GREENHECK	DC-5-10-13LV	CEILING	13,170	-	-	-	-	115/1	-	-	5.0	144	-	-
HVLS 1.2	BUILDING 1	MAINTENANCE BAY	GREENHECK	DC-5-10-13LV	CEILING	13,170	-	-	-	-	115/1	-	-	5.0	144	-	-
HVLS 2.1	BUILDING 2	MAINTENANCE BAY	GREENHECK	DC-5-8-13LV	CEILING	9,900	-	-	-	-	115/1	-	-	5.0	105	-	-
HVLS 2.2	BUILDING 2	MAINTENANCE BAY	GREENHECK	DC-5-8-13LV	CEILING	9,900	-	-	-	-	115/1	-	-	5.0	105	-	-
HVLS 2.3	BUILDING 2	MAINTENANCE BAY	GREENHECK	DC-5-5-13MV	CEILING	3312	-	-	-	-	115/1	-	-	1.6	35	-	-
HVLS 2.4	BUILDING 2	MAINTENANCE BAY	GREENHECK	DC-5-5-13MV	CEILING	3312	-	-	-	-	115/1	-	-	1.6	35	-	-
HVLS 3.1	BUILDING 3	MAINTENANCE BAY	GREENHECK	DC-5-10-13LV	CEILING	13,170	-	-	-	-	115/1	-	-	5.0	144	-	-
HVLS 3.2	BUILDING 3	MAINTENANCE BAY	GREENHECK	DC-5-10-13LV	CEILING	13,170	-	-	-	-	115/1	-	-	5.0	144	-	-
NOTES				(				ET M501 E									

CONTROL. SEE DETAIL 10 ON SHEET M501 FOR CONTROL SEQUENCE.

NOTES: 1. PROVIDE UNIT MOUNTED DIAL SPEED CONTROL 2. PROVIDE WALL CAP 3. PROVIDE EATON VFD (DC1-327D0NN-A20CE1) FOR FAN SPEED

			HEAT P	UMP -	OUT	DOOR	UNIT					
		INTERLOCK							ELEC	TRICAL		
TAG	LOCATION	WITH FURNACE	CU MFR MODEL#	TONS	WEIGHT	COP @ 95	COP @ 47	VOLT	PHASE	MCA	MOP	NOTES
HP 1.1	GROUND	FC 1.1	LMU361HHV	3	218	4.25	4.00	208/230	1	32.7	40	1
HP 1.2	GROUND	FC 1.2	LAU180HYV3	1.5	135	-	4.10	208/230	1	19	30	1
HP 1.3	GROUND	FC 1.3	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 1.4	GROUND	FC 1.4	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 1.5	GROUND	FC 1.5	LAU180HYV3	1.5	135	_	4.10	208/230	1	19	30	1
HP 2.1	GROUND	FC         FC         FC         FC           2.1.1         2.1.2         2.1.3         2.1.4	LMU361HHV	3	218	4.25	4.00	208/230	1	32.7	40	1
HP 2.2	GROUND	FC         FC         FC         FC           2.2.1         2.2.2         2.2.3         2.2.4	LMU361HHV	3	218	4.25	4.00	208/230	1	32.7	40	1
HP 2.3	GROUND	FC 2.3	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 2.4	GROUND	FC 2.4	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 2.5	GROUND	FC 2.5	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 3.1	GROUND	FC         FC         FC         FC           3.1.1         3.1.2         3.1.3         3.1.4	LMU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 3.2	GROUND	FC FC FC 3.2.1 3.2.2 3.2.3	LMU361HHV	3	218	4.25	4.00	208/230	1	32.7	40	1
HP 3.3	GROUND	FC FC FC 3.3.1 3.3.2 3.3.3	LMU361HHV	3	218	4.25	4.00	208/230	1	32.7	40	1
HP 3.4	GROUND	FC FC 3.4.1 3.4.2	LMU361HHV	3	218	4.25	4.00	208/230	1	32.7	40	1
HP 3.5	GROUND	FC 3.5	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
HP 3.6	GROUND	FC 3.6	LUU601HV	5	218	3.31	3.45	208/230	1	32.7	40	1
NOTE	ES:		•									•

1. PROVIDE STAND OR PLATFORM FOR CONDENSING UNIT.

				1	AIR OU	TLET S	CHEDL	JLE				
TAG	MNUFACTURER	MODEL NO.	SERVICE	TYPE	MATERIAL	MOUNTING	BORDER	PATTERN	BLADE SPACING (INCH)	BLADE POSITION	BLADE DEFLECTION	NOTES
[1]	PRICE	SMCD	SUPPLY	DIFFUSER	STEEL	SURFACE/ LAY-IN	SEE ARCH CEILING PLAN	4-WAY ADJUSTABLE	N/A	N/A	N/A	1, 2, 3, 4
[2]	PRICE	530 RL	RETURN	GRILLE	STEEL	SURFACE/ LAY-IN	SEE ARCH CEILING PLAN	FIXED	3/4"	FRONT HORIZONTAL	45°	1, 2, 3, 5
[3]	PRICE	SDG	SUPPLY	GRILLE	STEEL	DUCT MOUNT	-	DOUBLE DEFLECTION	3/4"	_	ADJUSTABLE	1, 2, 3, 6
[4]	PRICE	520 RS	SUPPLY	GRILLE	STEEL	SURFACE	F	DOUBLE DEFLECTION	3/4"	_	ADJUSTABLE	1, 2, 3, 6
NOTES 1. ( 2. F F ( 3. F	COLOR TO BE MANU PROVIDE BALANCING ROM TRUNK DUCT. ON DRAWINGS) PROVIDE SQUARE T	FACTURER STA 3 DAMPER IN BF (ADDITIONAL D O ROUND ADAP	NDARD WHITE RANCH DUCT SE AMPERS FOR S TER AS REQUIF	ERVING AIR OI YSTEM BALAN	JTLET AT TAK JCING ARE SH	4. EOFF 5. IOWN 6.	PROVIDE 24 ARCHITECT PROVIDE RE (SEE ARCHI PROVIDE OI	"X24" PAN FOR L URAL REFLECTE ETURN GRILLE W TECTURAL REFL PPOSED BLADE	.AY-IN CEILING ED CEILING PLA /ITHOUT SCREV .ECTED CEILINC DAMPER.	INSTALLATION A NS FOR LOCATI V HOLES FOR LA 3 PLANS FOR LC	AS REQUIRED (S ON) AY-IN CEILING AI OCATION)	EE

HNER N R KARTCI E N G I N E

![](_page_85_Picture_15.jpeg)

# ASHII E DEN **OLDS** 425 OHME GARI

![](_page_85_Picture_18.jpeg)

BID SET: 01/06/2025 Job: 2344 Date: 01/06/2025 JDWG ID -

<b>M6.02</b>	

LUMINAIRES (DIMENS	SIONS OF SYMBOL WILL VARY DEPENDING ON LUMINAIRE)	POWER (CONTINU	JED)
	NTIFICATION: LUMINAIRES INDICATED BY THE FOLLOWING NOTATIONS:		
S# = NEW LUMINAIRE	UON, REFER TO LOMINAIRE SCHEDULE FOR DETAILS UON, EXTERIOR SITE, REFER TO LUMINAIRE SCHEDULE FOR DETAILS	∠3	NUMBER INDICATES
EL# = EXISTING LUMII	NAIRE TO BE RELOCATED		NUMBER OF C.1.5
EN# - NEW LOCATION	OF EXISTING LOMINAIRE		MOTOR
	LUMINAIRE, DOWNLIGHT -	]ï⊢∕∕ر_	- MAGNETIC MOTOR STARTER
Â	LUMINAIRE, WALLWASH -		FVNR = FULL VOLTAGE NON-REVERSING FVR = FULL VOLTAGE
	SEE LUMINAIRE SCHEDULE FOR MOUNTING		00 = NEMA SIZE
			- MAGNETIC MOTOR STARTER W/DISCONNECT
	STRIP, SURFACE	ST	DISCONNECT SWITCH, NON FUSED
		60A 🖵	(60A) INDICATES AMPERAGE RATING, ST = SHUNT TRIP
2 Z Z		100AF 200AS	DISCONNECT SWITCH, FUSED 200=SWITCH RATING,
			IUU=FUSE RATING
			CIRCUIT BREAKER DISCONNECT
$(\circ) \boxed{\circ \circ}$	LUMINAIRE, PENDANT MOUNTED		(60A) INDICATES AMPERAGE RATING, ST = SHUNT TRIP
	HALF SHADED FIXTURE DENOTES: EMERGENCY LUMINAIRE	60A	
	TAPE OR COVE LIGHTING	」 `` ` \$™	A MANUAL MOTOR STARTER W/OVERLOAD
POWER			
\$x	IF SYMBOL SHOWN ON LIGHTING PLAN:		
	3 = THREE WAY SWITCH $4 = FOUR WAY SWITCH$		SPECIAL PURPOSE RECEPTACLE, RATING AS INDICA
	K = KEY OPERATED SWITCH $T = SWITCH WITH TIMEP$	₽₽₩	STANDARD RECEPTACLES: 125V, 20A 18" AFF, UON. T
			QUADRUPLEX /QUADRUPLEX /FLOOR DUPLEX /FI
		ଡ଼ଡ଼╇	GFCI RECEPTACLES: 125V, 20A 18" AFF, UON. TYPES: /DUPLEX /QUADRUPI FX
(PE)		Φx	C = CEILING MOUNTED S = HALE SWITCHED
(#)	LOCATED ON LIGHTING SHEETS.		I = ISOLATED GROUND TR = TAMPER RESISTANT
OS	CEILING MOUNTED OCCUPANCY SENSOR(S). PROVIDE SHOP DRAWINGS OF OCCUPANCY SENSOR SYSTEM AS PER PROJECT		a = LOWER CASE LETTER INDICATES SWITCH
	SPECIFICATION AS PART OF THE SUBMITTAL PROCESS PRIOR TO COMMENCEMENT OF LABOR. SEE LIGHTING CONTROL		2" = MEASUREMENT INDICATES HEIGHT ABO
	LEGEND LOCATED ON LIGHTING SHEETS.		A = INDICATES MOUNT ABOVE BACKSPLASH/MILLWORK COORDINATE
VFD	VARIABLE FREQUENCY DRIVE		HEIGHT WITH TRADES.
			WITH USB CHARGER.
			CONTROLLED RECEP INDICATES HALF
	NORMALLY OPEN CONTACT (WHEN DE-ENERGIZED)		CONTROLLED DEDICATED 20A 125V DUPI
—_N	NORMALLY CLOSED CONTACT (WHEN DE-ENERGIZED)		PROVIDE GFCI AND AFCI PROTECTED RECEPTACLES
$\Theta$	HARDWIRED CONNECTION		DAISY-CHAINED GFCI RECEPTACLES NOT ALLOWED,
Û	JUNCTION BOX	₽₽	RECEPTACLE ON EMERGENCY POWER: 125V, 20A 18 TYPES: DUPLEX / QUADRAPLEX
(ST)	SHUNT TRIP PUSHBUTTON OR KEY-SWITCH	νΦ	2-GANG COMPARTMENT BOX IN FLOOR FOR DATA, A
(T)	THERMOSTAT		RECEPTACLE DROP CORD. SINGLE CONVENIENCE OUTLET: 125V. 2
	PANELBOARD, SWITCHBOARD, OR SWITCHGEAR. DASHED BOX		COORDINATE WITH OWNER FOR MOUNTING HEIGHT
	INDICATES CODE REQUIRED WORKING CLEARANCE		
	CONDUIT OR EQUIPMENT TO BE REMOVED	FOR ALL TELECO	<u>I OUTLETS</u> MMUNICATION OUTLETS, ROUTE 3/4" CONDUIT (UNDERG
	CONDUIT CONCEALED IN WALL, CEILING, UNDER FLOOR, IN - FLOOR SLAB, OR ROUTED UNDERGROUND	NECESSARY) AND DESCRIBED IN EL	) STUB TO ACCESSIBLE CEILING SPACE WITH CABLING A ECTRICAL SPECIFICATIONS, UNLESS OTHERWISE NOTEI
		# - INDICATES QU	ANTITY OF VOICE AND DATA JACKS
	- CONDUIT EXPOSED	V	FLOOR MOUNTED TELECOMMUNICATIONS OUTLET. # = INDICATES QUANTITY OF VOICE AND DATA JACK
X X	EXISTING CONDUIT EXPOSED, EXISTING TO REMAIN UNLESS OTHERWISE NOTED	$\mathbf{\nabla}$	WALL MOUNTED TELECOMMUNICATIONS OUTLET. 18"
Y	EXISTING CONDUIT ROUTED UNDERGROUND, EXISTING TO		# = INDICATES QUANTITY OF VOICE AND DATA JACK
лХ	REMAIN UNLESS OTHERWISE NOTED	$\mathbb{A} \mathbb{A} \mathbb{A}$	OUTLET; LETTER INDICATES AS FOLLOWS: A = AUDIO V = VIDEO I = INTERCOM
— OH———	- OVERHEAD ELECTRICAL	M	
$\sim$	EXTRA-HARD USAGE FLEXIBLE CORD	₩	DLANK = 4 T1/16" MASTER ANTENNA OUTLET BOX W/ COVER, MTD. 18" AFF UNLESS OTHERWISE
$\cdot$	FLEXIBLE CONDUIT		M = MONITOR (CUTV SYSTEM), MTD 18" AFF
		COMMUNICATION	· 
0		FOR ALL COMMUN NECESSARY) AND	NICATION DEVICES, ROUTE 3/4" CONDUIT (UNDERGROUN O STUB TO ACCESSIBLE CEILING SPACE WITH CABLING A
Ə	CONDUIT TURNED DOWN OR AWAY	DESCRIBED IN EL	ECTRICAL SPECIFICATIONS, UNLESS OTHERWISE NOTE
]	CONDUIT CAPPED	F0	
	CONDUIT HOME RUN 3/4"C, 2#12 & 1#12 GND. UNLESS SHOWN OTHERWISE. (EXAMPLE SHOWN: TO PANEL L1_CIRCUIT 2)		
NG —		I (S)	SPEAKER, CEILING MOUNTED
	CONDUIT HOME RUN - SEE FEEDER SCHEDULE		SPEAKER, WALL MOUNTED, MTD. 7'-6" AFF UON.
	HANDHOLE		M = SPEAKER PROGRAM SELECTOR SWITCH & VOLUN
	PULL BOX		3-POLE TWIST-LOCK RECEPTACLE FOR MICROPHONE
			AFF.
	MANUAL OR AUTOMATIC TRANSFER SWITCH.		REMOTE DICTATING OUTLET MTD 1'-6" AFF. UON.
o		$\square_{s}$	INTERCOM STATION (REFER TO SPECS. FOR FUNCTION OPERATION OF INSTRUMENT & TYPE REQUIRED).
o ∂ 100/3 []	MAGNETIC CIRCUIT BREAKER TRIP, UNLESS OTHERWISE NOTED		S = STAFF STATION
			WINELEDD AUUEDD FUKI
		SC	WALL MOUNTED SPEAKER/CLOCK COMBINATION
		©	WALL CLOCK
KUU SYMBOLS			CABLE TRAY
	BATTERY		
	TRANSFORMER		
		TGB	TELECOMMUNICATIONS SYSTEMS BONDING BUSBAR

			CIRCUIT DESIGN
	FIRE ALA SEE FIRE ALARM SY	<b>RM</b> ALARM SPECIFICATION AND DETAIL SHEETS IF APPLICABLE FOR REQUIREMENTS OF FIRE /STEM.	LUMINAIRE, TYPICAL: "#" INDICATES TYPE PER LUMINAIRE SCHEDULE.
	FAC	ALARM, FIRE, COMMUNICATOR ALARM, FIRE, PANEL; LETTERS INDICATE AS FOLLOWS: FACC = CENTRAL CONSOLE FACP = CONTROL PANEL	(SEE "LUMINAIRES" LEGEND ON THIS SHEET FOR MOR INFORMATION) "NL" INDICATES NIGHT LIGHT LUMINAIRE. X-X INDICATES PANELBOARD AND CIRCUIT PROVIDING PO
	BATT	MFACP= MASTER CONTROL PANELFAAP = ANNUNCIATOR PANELALARM, FIRE; LETTERS INDICATE AS FOLLOWS:BATT = BATTERIESBATT = BATTERIESCHR = CHARGERFAR = RECORDER	"a" INDICATES CONTROL PER SWITCH IN SAME ROOM/ARE "E" INDICATES POWER TO EMERGENCY LIGHTING
	FATC	ALARM, FIRE, TERMINAL CABINET.	CONTAINED IN SAME ROOM/AREA.
	[FTR]	ALARM, TRANSPONDER OR TRANSMITTER	RECEPTACLE, TYPICAL: "PNL" INDICATES POWER SOURCE.
	€SC	ALARM, FIRE, MANUAL PULL STATION C = WITH CLEAR PLASTIC COVER	"2" INDICATES CIRCUIT NUMBER.
		ALARM, HORN/LIGHT, ONE ASSEMBLY C = WITH CHIME	GENERAL LEGENI
	Ď	ALARM, HORN/LIGHT, SEPARATE ASSEMBLY	
TING,	×	ALARM, LAMP LIGHT, SIGNAL LIGHT, STROBE	
			SCALE XXX
		ALARM, TAMPER SWITCH	SHEET WHERE
	C C €	C = CARBON DIOXIDE TRANSMITTER	
CATED, PROVIDE	$\diamond$	DETECTOR HEAT	
		DETECTOR SMOKE	
			SHEET ON WHICH SECTION APPEARS
NDICATED			
UON. TYPES: LEX /FLOOR		CITY FIRE ALARM MASTER STATION MTD 5'-6" AFE UNLESS NOTED	XXX
TYPES: SIMPLEX	(FAT)	FIRE ALARM TRANSMITTER (BASE LOOP) NUMERALS DENOTE CODE.	DETAIL APPEARS
	<u>1</u> 2-4-6		
SWITCH	(FTT) 2-4-6	CODE.	
T ABOVE	F	FIRE SPRINKLER WATER FLOW SWITCH	GENERAL NOTES
	(K)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM	
PTACLE	$\langle R \rangle$	ADDRESSABLE RELAY	THE SHEETS ON WHICH THEY OCCUR. "KEYNOTES" APPLY
L			2. ALL EQUIPMENT SHOWN IN BOLD IS TO BE PROVIDED, OR I OTHERWISE NOTED.
V DUPLEX F V DUPLEX	C-CEILING		3. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FROM A LUMINAIRES FOR CONTROL OF LUMINAIRES SHOWN.
ACLES AND	FOR ALL S NECESSA	SAFETY AND SECURITY DEVICES, ROUTE 3/4" CONDUIT (UNDERGROUND IF RY) AND STUB TO ACCESSIBLE CEILING SPACE WITH CABLING AND DEVICES	4. LUMINAIRES SHOWN ON DRAWINGS FOR QUANTITY AND C
OWED, UON.	PROVIDEL	J BY OWNER'S PREFERRED PROVIDER, UNLESS OTHERWISE NOTED.	ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
20A 18"AFF, UON.	⊕ <sup>M</sup> ⊤	AUDIO DEVICE; LETTER INDICATES AS FOLLOWS: <u>T=TECHNOLOGY/TYPE</u>	5. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN SIZED PER NEC TABLE 250.122. ALL WIRING IS BASED ON C 310.15(B)(16), USING 75°C AMPACITIES FOR FEEDERS, IF AL
ATA, AND	- 1	B-BELL C-CHIME H-HORN K-KLAXON L-LISTEN-IN M-MICROPHONE S-SOUNDER S-SPEAKER Z-BUZZER	IS RESPONSIBLE TO RE-SIZE CONDUCTORS AND CONDUIT FOR LOADS SHOWN ON DRAWINGS.
125V, 20A,	⊞M	KEYPAD DEVICE	6. BRANCH CIRCUIT CONDUCTORS, NOT OTHERWISE IDENTIF
EIGHT	III™	CARD READER WITH KEYPAD	QUANTITY AND SIZE SHALL BE "AS REQUIRED" TO SERVE A EQUIPMENT WITH A MAXIMUM VOLTAGE DROP OF THREE F
		CARD ACCESS READER; LETTER INDICATES AS FOLLOWS: <u>T=TECHNOLOGY/TYPE</u> D DADOODE	CHOOSES TO RUN MORE THAN THREE CURRENT CARRYIN RACEWAY OR CABLE, CONDUCTORS SHALL BE INCREASED
IDERGROUND IF LING AS		M-MAG STRIP P-PROXIMITY S-SMART CARD T-TOKEN	FROM THE 75°C COLUMN.
NOTED.		DOOR CONTACT	7. MINIMUM CONDUIT IN EXTERIOR AND UNDERGROUND LOC. OTHERWISE ON PLANS. CONDUITS FROM LUMINAIRES TO L
LET.	I I I I I I I I I I I I I I I I I I I	INTERCOM; LETTER INDICATES AS FOLLOWS: T=TECHNOLOGY/TYPE	(SWITCHES, OCCUPANCY SENSORS, ETC.) MAY BE 1/2" OR PROVIDE ADDITIONAL CONDUCTOR FOR UNSWITCHED "HO
ET. 18" AFF UON.		M-MASTER S-SUBSTATION	8. WIRING FOR EMERGENCY LIGHTING CIRCUITS OR OTHER
A JACKS		T=TECHNOLOGY/TYPE D-DUAL TECHNOLOGY IR-INFRARED M-MICROWAVE U-ULTRASONIC	KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND REQUIREMENTS OF NEC SECTION 700.10.
Μ	Ш		9. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FOR AL
OX W/BLANK		PUSH BUITON	10. WHERE EQUIPMENT PART NUMBERS ARE SHOWN ON THES
F	AP	SECURITY ACCESS, ANNUNCIATOR PANEL	THE REQUIREMENTS OF THE SPECIFICATIONS.
		SECURITY ACCESS, VIDEO CAMERA WITH LENS	11. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISH 12. COORDINATE EXACT LOCATION OF ALL OUTLETS. COMBIN
GROUND IF LING AS	٨	SECURITY ACCESS, DOME CAMERA	FA DEVICES, ETC., WITH THE ARCHITECTURAL ELEVATIONS
NOTED.	NURSE C	ALL	13. COORDINATE USE OF CEILING SPACE WITH ALL TRADES PE AREAS ARE VERY CONGESTED AND REQUIRE CLOSE COOP
	NCS	NURSE'S CALL MASTER STATION MTD ON NURSE'S COUNTER TOP UNLESS OTHERWISE	14. COORDINATE INSTALLATION REQUIREMENTS FOR OCCUPA WITH THE MANUFACTURER. PROVIDE ALL APPURTENANCE
			MANUFACTURER. PROVIDE ADDITIONAL SENSORS WHERE COMPLETE COVERAGE IN EACH ROOM CONTROLLED BY C
			15. COORDINATE THE INSTALLATION OF ALL EXTERIOR OUTLE MASONRY IN EACH AREA. CUT ALL FLUTED BLOCKS SO TH
-6" AFF UON. VOLUME		1 = SINGLE PATIENT STATION. MTD 4'-0" AFF UNLESS OTHERWISE NOTED 2 = DUPLICATE PATIENT STATIONS (SEPARATE INDICATORS AT MASTER	SEE ARCHITECTURAL DETAILS FOR MOUNTING REQUIREM
PHONE, MTD. 4'-6"		STATION) MTD 5'-0" AFF UNLESS OTHERWISE NOTEDD=DUTY STATION. MTD 5'-0" AFF UNLESS OTHERWISE NOTED	16. SEAL ALL CONDULT PENETRATIONS OF FLOORS & FIRE RAT APPROVED MATERIALS AND METHODS TO MAINTAIN FIRE F FOR STEEL FLECTRICAL BOXES IN FIRE RATED WALLS WIT
۷.		E = STATION MID 6'-0" AFF FOR SHOWER LOCATION, MTD 4'-6" AFF FOR TUB LOCATION, & MTD 3'-0" AFF FOR TOILET LOCATION, UON P = PSYCHIATRIC CORRIDOR STATION WITH KEY SWITCH	METHODS TO MAINTAIN THE FIRE INTEGRITY.
INCTIONAL D).		S = AUDIO VISUAL WALL STATION (STAFF) MTD 5'-0" AFF UNLESS OTHERWISE NOTED	17. PROVIDE ADDITIONAL CONDUIT SLEEVES THROUGH WALLS OF SIGNAL SYSTEM WIRING NOT REQUIRED TO BE RUN IN DEDICATED TO FACH SIGNAL SYSTEM SLEEVES POLITED
		U = UTILITY CALL STATION, MTD 5'-0" AFF UNLESS OTHERWISE NOTED EM = EMERGENCY STATION, MTD 5'-0" AFF UNLESS OTHERWISE NOTED 1 = JACK STATION MTD 4'-0" AFF UNLESS OTHERWISE NOTED	SEALED WITH U.L. MATERIALS AND METHODS TO MAINTAIN
N	$^{2}$	NURSE CALL STATION.	18. SEE MECHANICAL/PLUMBING DRAWINGS AND SUBMITTALS ADDITIONAL ELECTRICAL REQUIREMENTS PRIOR TO INSTA
IN		<ul> <li>Z = NURSES CALL DOME LIGHT (SUFFIX INDICATES NO OF LAMP) MTD 6" ABOVE DOOR.</li> <li>D = CORRIDOR DOME LIGHT.</li> <li>I = AUXILIARY INTERSECTIONAL DOME LIGHT</li> </ul>	19. ALL LOW VOLTAGE SYSTEMS NOT RUN IN CONDUIT SHALL THE DEVICE THROUGH WALLS INTO THE ACCESSIBLE CEIL
	НФ	NIGHT LIGHT	ROUTED IN THE WALLS OR INACCESSIBLE LOCATION WITH
	- HR		20. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRU NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTE STRUCTURAL ENCINEER AND THE DWOLDN OF THE STATE
ISBAR	PS	POWER SUPPLY WITH BATTERY BACKUP	

ΑΤΙΟΝ	SH
DRE a X-X E X-X a/E X-X a/E X-X AREA, UON.	E0.1 E1.0 E1.1 E2.1B E2.2B
PNL-2 <b>D</b>	E2.1B E2.2B E2.3B E2.4B E2.4B
XXXNGCONDUIT & WIRE TAG (REFER TO CONDUIT AND WIRE SCHEDULE)XXFAULT CURRENT TAG (3 PH, SYM AMPS)1KEY NOTE	E2.2B E2.3B E2.4B E2.1B
IF PHOTO, ARROW DENOTES DIRECTION TAKEN FIGURE OR PHOTO DETAIL NUMBER SHEET WHERE DETAIL IS TAKEN FROM DETAIL/PLAN NUMBER	E5.1 E5.2 E6.1 E6.2 E6.3 E6.4
DETAIL/PLAN	
	AFC
ES. "SHEET NOTES" APPLY TO ONLY LY ONLY WHERE CALLED OUT. R MODIFIED BY CONTRACTOR UNLESS M ALL CONTROL DEVICES TO CIRCUITING ONLY. SEE	AFG AF AFCI AFF AI AIC AHJ AO ATS CATV CB CCTV CB CCTV CL CO DDC
N EQUIPMENT GROUND CONDUCTOR I CU COPPER PER NEC TABLE ALUMINUM IS ALLOWED, CONTRACTOR IT ACCORDING TO NEC AMPACITIES TIFIED SHALL BE A MINIMUM 12 AWG R RUNS GREATER THAN 70 FEET. E AND CONTROL DEVICE(S) OR E PERCENT. WHERE CONTRACTOR TING CONDUCTORS WITHIN ONE ED IN SIZE TO COMPENSATE FOR THE CTOR AMPACITIES SHALL BE TAKEN	DO DP EC EL EM EM EN ER EX FAAP FACP FCIO FOIC
OCATIONS TO BE 1" UNLESS NOTED O LOCAL USER CONTROL DEVICES OR AS INDICATED IN SPECIFICATIONS. HOT" TO LIGHTING LUMINAIRES WITH SFER DEVICES. R EMERGENCY EQUIPMENT SHALL BE ND EQUIPMENT AND SHALL MEET ALL ALL CIRCUITS SHOWN ON DRAWINGS.	FOIO GFCI GFP GND HTR IG IMC JBOX LCP
IESE PLANS THEY SHALL SUPERCEDE	MCA MCB MCC
ISE NOTED. BINATION CLOCK/SPEAKERS, SPEAKER, INS PRIOR TO COMMENCING WORK. PRIOR TO COMMENCING WORK. MANY OORDINATION. PANCY SENSOR LIGHTING CONTROL CES AS REQUIRED BY THE RE NECESSARY TO PROVIDE ( OCCUPANCY SENSORS.	MDP MLO MS MTD MTS NAC NEC NEC NFC NIC NIC NMC NTS OC OH
LET BOXES WITH THE TYPE OF THAT THE BOX IS INSTALLED FLUSH. MENTS.	PNL PS PVC
ATED ASSEMBLIES WITH U.L. E RATING. PROTECT ALL OPENINGS /ITH U.L. APPROVED MATERIALS AND LLS WHERE REQUIRED FOR ROUTING IN CONDUIT. EACH SLEEVE SHALL BE ID THROUGH RATED WALLS SHALL BE	RMC SAC SEC SB SG SPD SYM TBD
LS FOR EXACT LOCATIONS AND TALLATION.	TEL TR TYP
LL HAVE MINIMUM 3/4"C. ROUTED FROM EILING SPACE. NO CABLING SHALL BE THOUT CONDUIT.	UUN UL UG VD
RUCTURAL MEMBER SHALL BE CUT, TEN AUTHORIZATION FROM THE TE ARCHITECT	WP XFMR

5 H	EET INDEX
0.1	GENERAL NOTES, ABBREVIATIONS AND LEGENDS
1.0	SITE: ELECTRICAL PLAN
1.1	SITE: PHOTOMETRICS PLAN
2.1B1	MAIN FLOOR: LIGHTING PLAN - BUILDING 1
2.2B1	MAIN FLOOR: POWER PLAN AND SPECIAL SYSTEMS PLAN - BUILDING 1
2.1B2	MAIN FLOOR: LIGHTING PLAN - BUILDING 2
2.2B2	MAIN FLOOR: POWER PLAN AND SPECIAL SYSTEMS PLAN
רםכ ר	
2.362 2.482	SECOND FLOOR: POWER PLAN AND SPECIAL SYSTEMS
21102	PLAN - BUILDING 2
2.1B3	MAIN FLOOR: LIGHTING PLAN - BUILDING 3
2.2B3	MAIN FLOOR: POWER PLAN AND SPECIAL SYSTEMS PLAN - BUILDING 3
2.3B3	SECOND FLOOR: LIGHTING PLAN - BUILDING 3
2.4B3	SECOND FLOOR: POWER PLAN AND SPECIAL SYSTEMS PLAN - BUILDING 3
2.1B4	MAIN FLOOR: ELECTRICAL PLAN - BUILDING 4
5.1	ELECTRICAL DETAILS
5.2	ELECTRICAL DETAILS
6.1	ONE-LINE DIAGRAM AND ELECTRICAL SCHEDULES
6.2	ELECTRICAL SCHEDULES
6.3	ELECTRICAL SCHEDULES
6.4	ELECTRICAL SCHEDULES
<b>.</b>	
AE	BREVIAIIONS
AFC AFG	AVAILABLE FAULT CURRENT ABOVE FINISHED GRADE
AF FCI	AMP FRAME ARC FLASH CIRCUIT INTERRUPTER
AFF AI	ABOVE FINISHED FLOOR ANALOG INPUT
AIC AHJ	AMPERE INTERRUPTING CAPACITY AUTHORITY HAVING JURISDICTION ANALOG OUTPUT
ATS C	AUTOMATIC TRANSFER SWITCH CONDUIT OR CEILING
ATV CB	CABLE TELEVISION CIRCUIT BREAKER
CTV CL	CLOSED CIRCUIT TELEVISION CONNECTOR LIGHTING
CO DC	CONDUIT ONLY DIRECT DIGITAL CONTROLS
DI DO	DISCRETE INPUT DISCRETE OUTPUT DISTRIBUTION BANELROARD
EC FI	ELECTRICAL CONTRACTOR EXISTING TO BE RELOCATED
EM EN	EMERGENCY EXISTING IN NEW LOCATION
ER ER	ELECTRICAL METALLIC TUBING EXISTING TO REMAIN
EX AP	EXISTING FIRE ALARM ANNUNCIATOR PANEL
ACP CIO	FIRE ALARM CONTROL PANEL FURNISHED BY CONTRACTOR, INSTALLED
оіс	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
010	FURNISHED BY OWNER, INSTALLED BY OWNER
ifci GFP	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION
ITR	GROUND HEATER
	ISOLATED GROUND INTERMEDIATE METALLIC CONDUIT
_CP LV	LIGHTING CONTROL PANEL LOW VOLTAGE
ICA ICB	MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER
ICC IDP	MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL
MS	MAIN LUGS UNLY MOTOR STARTER MOUNTED
ATS AC	MANUAL TRANSFER SWITCH NOTIFICATION APPLIANCE CABINFT
NEC NFC	NATIONAL ELECTRICAL CODE NOT FOR CONSTRUCTION
NIC NL	NOT IN CONTRACT NIGHT LIGHT
	NONMETALLIC-SHEATHED CABLE NOT TO SCALE
OC OH OS	ON CENTER OVERHEAD OCCUPANCY SENSOR
PNL PS	PANEL POWER SUPPLY
PVC PRI	POLYVINYL CHLORIDE PRIMARY
R MC	EXISTING TO BE REMOVED RIGID METAL CONDUIT
SAC	SMALL APPLIANCE CIRCUIT SECONDARY SWITCHROARD
SG SPD	SWITCHBOARD SWITCHGEAR SURGE PROTECTIVE DEVICE
SYM FBD	SYMMETRICAL TO BE DETERMINED
TEL TR	TELEPHONE TAMPER RESISTANT
INN	TYPICAL UNLESS OTHERWISE NOTED
UL UG	UNDERWRITERS LABORATORIES UNDERGROUND
VD /FD \\\\	VOLTAGE DROP VARIABLE FREQUENCY DRIVE WEATHERPROOF (WHILE IN LISE)
WP MR	WEATHERPROOF TRANSFORMER
TH	IS SHEET IS FOR REFERENCE ONLY AND ALL SYMBOLS,
NOTES	S AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

![](_page_86_Picture_4.jpeg)

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# H **OLDS S1** 425 OHME GARDEN ROA

![](_page_86_Picture_6.jpeg)

 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID

**E0.1** 

![](_page_87_Figure_0.jpeg)

![](_page_87_Picture_1.jpeg)

SITE: ELECTRICAL PLAN

SCALE: 1" = 20'-0"

#### **KEY NOTES**

- $\langle 1 \rangle$  EXISTING TRANSFORMER 'T1'.
- $\langle 2 \rangle$  EXISTING TRANSFORMER 'T2'.
- EXISTING TRANSFORMER 'T3' TO BE RELOCATED AS SHOWN. COORDINATE ALL REQUIREMENTS WITH  $\langle 3 \rangle$ UTILITY.
- 4 EV CAPABLE CHARGING PROVISION. PROVIDE CONDUIT, PROVIDE METAL ENCLOSURE WITH LOCKABLE COVER. COORDINATE FINAL LOCATION WITH ARCHITECTURAL AND CIVIL.
- 5 EV READY CHARGING PROVISION. PROVIDE CONDUIT, CONDUCTORS AND PROVIDE METAL ENCLOSURE WITH LOCKABLE COVER. COORDINATE FINAL LOCATION WITH ARCHITECTURAL AND CIVIL.
- 6 EV CHARGING STATION. COORDINATE FINAL LOCATION WITH ARCHITECTURAL AND CIVIL.
- MOTORIZED ENTRY GATE CONTROLLER.  $\langle 7 \rangle$ COORDINATE EXACT INSTALLATION REQUIREMENTS WITH GATE MANUFACTURER AND LV CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, INSTALL POWER CONDUCTORS, AND COORDINATE FOR LV REQUIREMENTS. PROVIDE LOCAL NEMA 3R DISCONNECT IF NOT INTERNALLY INCLUDED WITH GATE OPERATOR; DISCONNECT SHALL BE MOUNTED VIA HOT-DIPPED GALVANIZED UNISTRUT UTILIZING SS FASTENING HARDWARE AND CONCRETE BASES (12" DIA X 30" H).
- $\langle 8 \rangle$  FEEDER FOR MOTORIZED GATE OPERATOR FROM PANELBOARD P3A. REFERENCE OWNER EQUIPMENT SCHEDULE ON SHEET E-602 FOR MORE INFORMATION.
- $\langle 9 \rangle$  INDUCTION LOOP SENSOR FOR GATE.
- (10) PROVIDE (1) 1-1/2"C. COORDINATE WITH VENDOR AND LV CONTRACTOR FOR ALL REQUIREMENTS.
- (11) PROVIDE (1) 1" EMPTY CONDUIT FOR LV CONTRACTOR FOR GATE ACCESS PEDESTAL. COORDINATE WITH VENDOR AND LV CONTRACTOR FOR ALL REQUIREMENTS.
- $\langle 12 \rangle$  BUILDING TELECOM DEMARC CABINET. SEE POWER PLANS FOR MORE INFORMATION.
- $\langle 13 \rangle$  BUILDING SERVICE FEEDERS. PROVIDE CONDUIT, WIRE, TRENCHING, AND BACKFILL. REFERENCE ONE-LINE DIAGRAM ON SHEET E-601 AND DETAIL 4 ON SHEET E-501 FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIREMENTS WITH UTILITY.
- $\langle 14 \rangle$  EXISTING TELECOM UTILITY FIBER PEDESTAL.
- (15) SEPTIC PUMP POWER PROVISION. COORDINATE ALL REQUIREMENTS AND FINAL LOCATION WITH CIVIL AND SEPTIC SYSTEM DESIGN.
- NEW LOCATION OF ELECTRICAL UTILITY SERVICE  $\langle 16 \rangle$ FEEDER AND COMMUNICATIONS UTILITY CONDUITS. COORDINATE ALL REQUIREMENTS WITH UTILITIES.
- $\langle 17 \rangle$  PROVIDE (2) 2"CO FOR SYSTEMS CABLE FROM TELECOM UTILITY PEDESTALS TO SYSTEM DEMAR IN EACH BUILDING. CONFIRM FINAL LOCATION AND SYSTEMS UTILITY REQUIREMENTS.
- 18 PROVIDE 2"CO FOR FIBER BUILDING INTERCONNECTION.
- (19) PROVIDE (2)1"CO, FOR LV CONTRACTOR TO UTILIZE FOR INSTALLING LV CABLING TO ENTRY GATE.
- 20 PROVIDE WEATHERPROOF TELECOM PULL BOX. STUB-UP TELECOM CONDUITS INSIDE PULL BOX FOR LV CABLING EXTENSION.
- 21 PROVIDE (2)2"CO FOR FIBER FROM TELECOM UTILITY SERVICE PEDESTALS. COORDINATE FINAL LOCATIONS AND ALL REQUIREMENTS WITH UTILITY.
- 22 COMPLY WITH ALL UTILITY REQUIREMENTS AND PROVIDE MINIMUM 3'-0" DISTANCE FROM ALL BUILDING FOOTINGS AND FOUNDATIONS. PRIOR TO EXCAVATION, COORDINATE WITH CIVIL AND UTILITY FOR LOCATIONS.
- EXISTING TELECOM FIBER UTILITY FIBER PEDESTAL TO BE RELOCATED AS SHOWN. COORDINATE ALL REQUIREMENTS WITH UTILTY.  $\langle 23 \rangle$
- 24 STUB-UP AND CAP 1-1/2"CO FOR FUTURE EM ANTENNA. COORDINATE LOCATION AND REQUIREMENTS WITH TOWER DESIGNER AND UTILITY.
- $\langle 25 \rangle$ ALL SITE LIGHTING TO BE CONTROLLED VIA DIGITAL TIME SWITCH LOCATED ADJACENT TO PANELBOARD P1B IN BUILDING 2. CONTROLS TO COMPLY WITH ALL ASSOCIATED REQUIREMENTS OF CURRENT EDITION OF WSEC CODE SECTION 'C405.2.9'.
- $\langle 26 \rangle$ PROVIDE EXTERIOR LUMINAIRES WITH HSS OPTION (HOUSE SIDE SHIELD). FIXTURE IS TO COMPLY WITH ALL KOOTENAI COUNTY AND LOCAL MUNICIPAL CODES. TYPICAL FOR ALL WITH LIGHT SOURCES AT BOUNDING PROPERTY LINES. SEE EL101 FOR BUILDING MOUNTED LOCATIONS.
- 150kW DIESEL GENERATOR "GEN1". GENERAC  $\langle 27 \rangle$ INDUSTRIAL #SD150 WITH SOUND ATTENUATED ENCLOSURE AND 24+ HOURS OF RUNTIME OR OWNER APPROVED EQUAL. TO BE PAD MOUNTED ON PAD WITH HEAT PUMP UNITS. COORDINATE FINAL LOCATION AND SIZE WITH ARCHITECTURAL AND MANUFACTURER RECOMMENDATIONS. DASHED LINE INDICATES REQUIRED CLEARANCE AROUND GENERATOR.
- $\langle 28 \rangle$ PROVIDE (1)FEEDER FROM 400A/3P CIRCUIT BREAKER IN GENERATOR "GEN1" TO "ATS1". REFERENCE ONE-LINE DIAGRAM ON SHEET E-601. PROVIDE (1) BRANCH CIRCUIT FROM PANELBOARD "P2A" TO "GEN1" IN (1)1"C. REFERENCE PANEL SCHEDULE FOR CIRCUIT. UPSIZE CONDUCTORS TO ACCOUNT FOR VOLTAGE DROP. PROVIDE (1)1"CO FOR CONTROLS FROM "GEN1" TO "ATS1".

![](_page_87_Picture_33.jpeg)

![](_page_87_Figure_34.jpeg)

![](_page_87_Picture_35.jpeg)

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BID SET: Date: 1/6/2025 Job: 2344 .DWG ID -

**E1.0** 

1/6/2025

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SITE: PHOTOMETRICS PLAN

![](_page_88_Picture_4.jpeg)

**DEN R OLDS** 425 OHME GAR

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 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID

![](_page_88_Picture_11.jpeg)

![](_page_88_Figure_12.jpeg)

![](_page_88_Figure_13.jpeg)

![](_page_88_Figure_14.jpeg)

![](_page_88_Figure_15.jpeg)

![](_page_88_Figure_16.jpeg)

P3B-1

P3B-1

**E1.1** 

![](_page_89_Figure_0.jpeg)

![](_page_89_Picture_1.jpeg)

#### MAIN FLOOR - LIGHTING PLAN - BUILDING 1

#### SHEET NOTES

1. SEE SITE ELECTRICAL PLAN FOR EXTERIOR BUILDING MOUNTING LIGHTING.

#### **KEY NOTES**

1 DAYLIGHT HARVEST AREAS WITH AUTOMATIC DAYLIGHT RESPONSIVE DIMMING. PROVIDE PRIMARY AND SECONDARY ZONES WITH DIMMABLE DRIVER AND ASSOCIATED PHOTOCELL FOR FIXTURES IN EACH AREA.

#### LIGHTING CONTROL SCHEDULE

- a 1 LOW VOLTAGE SWITCH. NUMBER OF BUTTONS PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR (SEE OCCUPANCY SENSOR 'OS' DESCRIPTION BELOW FOR CONTROL INTENT). PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- 2 DUAL TECHNOLOGY WALL OCCUPANCY SENSOR. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN OFF LIGHTS WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
- # 3 a LINE VOLTAGE MANUAL TOGGLE SWITCH. # = DENOTES 3 OR 4 WAY SWITCHING CONDITION a = DENOTES SWITCHING ZONE
- a 4 LOW VOLTAGE DIMMER SWITCH. NUMBER OF DIMMER SWITCHES PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR. PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL TECHNOLOGY OCCUPANCY SENSORS. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN 100% OF THE CONTROLLED LIGHTS OFF WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

SENSORS TO BE CEILING MOUNTED. VERIFY LAYOUT WITH VENDOR SHOP DRAWINGS PRIOR TO PLACEMENT. ADDITIONAL POWER PACK(S) SHALL BE PROVIDED FOR ROOMS WITH CONTROLLED RECEPTACLES.

a = DENOTES SWITCHING ZONE

CHELAN COUNTY OLDS STATION CAMPUS 425 OHME GARDEN ROAD WENATCHEE, WASHINGTON 98801

![](_page_89_Picture_17.jpeg)

#### BID SET: Job: 2344 .DWG ID -

1/6/2025 Date: 1/6/2025

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![](_page_89_Picture_21.jpeg)

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![](_page_90_Figure_0.jpeg)

![](_page_90_Picture_1.jpeg)

#### MAIN FLOOR - POWER PLAN & SPECIAL SYSTEMS PLAN - BUILDING 1 - SCALE: 3/16" = 1'-0"

#### SHEET NOTES

- 1. COORDINATE ALL MOUNTING, LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS.
- 2. COORDINATE ALL MOUNTING OF RECEPTACLES WITH ARCHITECTURAL AND CASEWORK.
- 3. ALL DROP CORD RECEPTACLES TO BE SUSPENDED 72"AFF UNLESS OTHERWISE NOTED.

#### **KEY NOTES**

- (1) TELECOMMUNICATIONS DEMARC LDF WALL CABINET, TECHRACK SYSTEMS PRODUCT ID: TR4448 OR OWNER APPROVED EQUAL. COORDINATE REQUIRED SIZE WITH OWNER'S IT REPRESENTATIVE PRIOR TO CONSTRUCTION. PROVIDE 3/4"CO HOMERUN FROM CABINET TO EACH DATA OUTLET.
- ALL DEVICES IN THIS AREA BELOW 18"AFF WILL BE REQUIRED TO BE CLASS 1 DIVISION 2 HAZARDOUS LOCATION RATED. ALL DEVICES FED FROM THE SLAB AND ABOVE 18" SHALL HAVE CLASS 1 DIVISION 2 CONDUIT SEAL AND FITTING AT 18"AFF INSTALLED IN THE CONDUIT. ALL EXPOSED CONDUIT 12' AND BELOW SHALL BE RIGID GALVANIZED STEEL
- UTILITY METER AND CT CABINET FOR SERVICE 1 AND METER AND CT CABINET FOR SERVCE 2 PER UTILITY REQUIREMENTS. REFERENCE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- SECURITY PANEL WITH POWER SUPPLY FOR DOORS. COORDINATE REQUIREMENTS WITH OWNER'S IT REPRESENTATIVE PRIOR TO CONSTRUCTION. REFERENCE TYPICAL SECURITY DOOR DETAIL ON SHEET E5.2.
- TELECOMMUNICATIONS BACKBOARD "TB-1", PLYWOOD, FIRE RATED 4'WIDE x 4'HIGH x 3/4"THICK at 4'-0"AFF. SEE DETAIL 2 ON SHEET E-502 FOR MORE INFORMATION.
- SELF REGULATING HEAT TAPE IN ALL GUTTERS AND DOWNSPOUTS. VERIFY CIRCUIT SIZES REQUIRED AND PROVIDE ADDITIONAL POINTS OF CONNECTION AS NEEDED.

![](_page_90_Figure_15.jpeg)

![](_page_90_Picture_16.jpeg)

9880 WASHINGTON 'CHEE, AT EN ROAD GARDEN 425 OHME

![](_page_90_Picture_19.jpeg)

X/X/XXX

Date: 01/06/2024

![](_page_90_Picture_22.jpeg)

BID SET:

Job: 2344 .DWG ID -

![](_page_91_Figure_0.jpeg)

![](_page_91_Picture_1.jpeg)

MAIN FLOOR - LIGHTING PLAN - BUILDING 2

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

#### SHEET NOTES

1. SEE SITE ELECTRICAL PLAN FOR EXTERIOR BUILDING MOUNTING LIGHTING.

 $\langle 1 \rangle$  DAYLIGHT HARVEST AREAS WITH AUTOMATIC DAYLIGHT RESPONSIVE DIMMING. PROVIDE

FIXTURES IN EACH AREA.

SPACE AS NECESSARY.

SPACE AS NECESSARY.

RECEPTACLES.

a = DENOTES SWITCHING ZONE

a = DENOTES SWITCHING ZONE

OCCUPANTS LEAVING THE SPACE.

DRIVER AND ASSOCIATED PHOTOCELL FOR

LIGHTING CONTROL SCHEDULE

a LOW VOLTAGE SWITCH. NUMBER OF BUTTONS PER

2 DUAL TECHNOLOGY WALL OCCUPANCY SENSOR. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN OFF LIGHTS WITHIN 10 MINUTES OF ALL

> DIMMER SWITCHES PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR.

PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING

ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL

OF THE CONTROLLED LIGHTS OFF WITHIN 10

WITH VENDOR SHOP DRAWINGS PRIOR TO

PROVIDED FOR ROOMS WITH CONTROLLED

a = DENOTES SWITCHING ZONE

TECHNOLOGY OCCUPANCY SENSORS. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN 100%

MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

SENSORS TO BE CEILING MOUNTED. VERIFY LAYOUT

PLACEMENT. ADDITIONAL POWER PACK(S) SHALL BE

SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR (SEE OCCUPANCY SENSOR

'OS' DESCRIPTION BELOW FOR CONTROL INTENT). PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING

PRIMARY AND SECONDARY ZONES WITH DIMMABLE

#### **KEY NOTES**

![](_page_91_Picture_7.jpeg)

![](_page_91_Picture_8.jpeg)

## 9880 WASHINGTON IATCHEE, EN \_ **COLDS ST** 425 OHME GARDEN ROAD

![](_page_91_Picture_11.jpeg)

BID SET: Job: 2344 .DWG ID -

1/6/2025 Date: 1/6/2025

![](_page_91_Picture_15.jpeg)

E2.1B2

![](_page_92_Figure_0.jpeg)

![](_page_92_Picture_1.jpeg)

NORTH

- 1. COORDINATE ALL MOUNTING, LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS.
- 2. COORDINATE ALL MOUNTING OF RECEPTACLES WITH ARCHITECTURAL AND CASEWORK.
- 3. ALL DROP CORD RECEPTACLES TO BE SUSPENDED 72"AFF UNLESS OTHERWISE NOTED.

![](_page_92_Picture_10.jpeg)

![](_page_92_Picture_11.jpeg)

![](_page_92_Picture_12.jpeg)

# NON SHIN ⋟ Ľ ROAD 425 OHME GARDEN F

![](_page_92_Picture_14.jpeg)

Fac hee Ave Suite 500, \ (509) 662-4781

1/6/2025

BID SET: Job: 2344 .DWG ID -Date: 1/6/2025

E2.2B2

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![](_page_93_Picture_2.jpeg)

![](_page_93_Picture_3.jpeg)

#### SHEET NOTES

1. SEE SITE ELECTRICAL PLAN FOR EXTERIOR BUILDING MOUNTING LIGHTING.

 $\langle 1 \rangle$  DAYLIGHT HARVEST AREAS WITH AUTOMATIC

#### **KEY NOTES**

![](_page_93_Picture_8.jpeg)

![](_page_93_Picture_9.jpeg)

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**OLDS ST** 425 OHME GARDEN ROAD

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(209)

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hee Ave Suite 500 (509) 662-4781

1/6/2025

Date: 1/6/2025

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BID SET:

Job: 2344 .DWG ID -

![](_page_94_Figure_0.jpeg)

![](_page_94_Picture_2.jpeg)

SECOND FLOOR - POWER PLAN & SPECIAL SYSTEMS PLAN - BUILDING 2

![](_page_94_Picture_4.jpeg)

1 SELF REGULATING HEAT TAPE IN ALL GUTTERS AND DOWNSPOUTS. VERIFY CIRCUIT SIZES REQUIRED AND PROVIDE ADDITIONAL POINTS OF CONNECTION AS NEEDED.

#### SHEET NOTES

- 1. COORDINATE ALL MOUNTING, LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS.
- 2. COORDINATE ALL MOUNTING OF RECEPTACLES WITH ARCHITECTURAL AND CASEWORK.

![](_page_94_Picture_10.jpeg)

![](_page_94_Picture_11.jpeg)

![](_page_94_Picture_12.jpeg)

# F GARDEN 425 OHME

![](_page_94_Picture_14.jpeg)

BID SET: Job: 2344 .DWG ID -Date: 1/6/2025

E2.4B2

1/6/202

![](_page_95_Figure_0.jpeg)

![](_page_95_Picture_1.jpeg)

MAIN FLOOR - LIGHTING PLAN - BUILDING 3

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

#### SHEET NOTES

1. SEE SITE ELECTRICAL PLAN FOR EXTERIOR BUILDING MOUNTING LIGHTING.

#### **KEY NOTES**

 $\langle 1 \rangle$  DAYLIGHT HARVEST AREAS WITH AUTOMATIC DAYLIGHT RESPONSIVE DIMMING. PROVIDE PRIMARY AND SECONDARY ZONES WITH DIMMABLE DRIVER AND ASSOCIATED PHOTOCELL FOR FIXTURES IN EACH AREA.

#### LIGHTING CONTROL SCHEDULE

- a 1 LOW VOLTAGE SWITCH. NUMBER OF BUTTONS PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR (SEE OCCUPANCY SENSOR 'OS' DESCRIPTION BELOW FOR CONTROL INTENT). PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- 2 DUAL TECHNOLOGY WALL OCCUPANCY SENSOR. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN OFF LIGHTS WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
- # 3 LINE VOLTAGE MANUAL TOGGLE SWITCH. a = DENOTES 3 OR 4 WAY SWITCHING CONDITION a = DENOTES SWITCHING ZONE
- a 4 LOW VOLTAGE DIMMER SWITCH. NUMBER OF DIMMER SWITCHES PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR. PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL TECHNOLOGY OCCUPANCY SENSORS. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN 100% OF THE CONTROLLED LIGHTS OFF WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

SENSORS TO BE CEILING MOUNTED. VERIFY LAYOUT WITH VENDOR SHOP DRAWINGS PRIOR TO PLACEMENT. ADDITIONAL POWER PACK(S) SHALL BE PROVIDED FOR ROOMS WITH CONTROLLED RECEPTACLES.

a = DENOTES SWITCHING ZONE

9880 WASHINGTON 'CHEE, AT EN **COLDS ST** 425 OHME GARDEN ROAD 

![](_page_95_Picture_17.jpeg)

![](_page_95_Picture_18.jpeg)

BID SET: Job: 2344 .DWG ID -Date: 1/6/2025

1/6/2025

![](_page_95_Figure_21.jpeg)

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![](_page_96_Figure_0.jpeg)

![](_page_96_Picture_1.jpeg)

![](_page_96_Picture_2.jpeg)

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

#### SHEET NOTES

- 1. COORDINATE ALL MOUNTING, LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS.
- 2. COORDINATE ALL MOUNTING OF RECEPTACLES WITH ARCHITECTURAL AND CASEWORK.

#### **KEY NOTES**

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988 IGTON /ASHIN 8 ROA 425 OHME GARDEN F

![](_page_96_Picture_12.jpeg)

BID SET: Job: 2344 .DWG ID -

E2.2B3

![](_page_97_Figure_0.jpeg)

 $\langle C \rangle$ -

 $\langle A \rangle$ 

 $\langle B \rangle$ 

![](_page_97_Picture_4.jpeg)

SECOND FLOOR - LIGHTING PLAN - BUILDING 2

#### SHEET NOTES

1. SEE SITE ELECTRICAL PLAN FOR EXTERIOR BUILDING MOUNTING LIGHTING.

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#### **KEY NOTES**

- $\langle 1 \rangle$  DAYLIGHT HARVEST AREAS WITH AUTOMATIC DAYLIGHT RESPONSIVE DIMMING. PROVIDE PRIMARY AND SECONDARY ZONES WITH DIMMABLE DRIVER AND ASSOCIATED PHOTOCELL FOR FIXTURES IN EACH AREA.
- $\langle 2 \rangle$  CORRIDOR OCCUPANCY SENSOR FUNCTION TO BE AUTO-ON / AUTO-OFF FOR SAFETY.

#### LIGHTING CONTROL SCHEDULE

- a 1 LOW VOLTAGE SWITCH. NUMBER OF BUTTONS PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR (SEE OCCUPANCY SENSOR 'OS' DESCRIPTION BELOW FOR CONTROL INTENT). PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- 2 DUAL TECHNOLOGY WALL OCCUPANCY SENSOR. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN OFF LIGHTS WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
- # 3 LINE VOLTAGE MANUAL TOGGLE SWITCH. a = DENOTES 3 OR 4 WAY SWITCHING CO # = DENOTES 3 OR 4 WAY SWITCHING CONDITION a = DENOTES SWITCHING ZONE
- a 4 LOW VOLTAGE DIMMER SWITCH. NUMBER OF DIMMER SWITCHES PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR. PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- $^{a}$ ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL TECHNOLOGY OCCUPANCY SENSORS. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN 100% OF THE CONTROLLED LIGHTS OFF WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

SENSORS TO BE CEILING MOUNTED. VERIFY LAYOUT WITH VENDOR SHOP DRAWINGS PRIOR TO PLACEMENT. ADDITIONAL POWER PACK(S) SHALL BE PROVIDED FOR ROOMS WITH CONTROLLED RECEPTACLES. a = DENOTES SWITCHING ZONE

# 988( WASHINGTON CHEE, AT EN **CULDS ST** 425 OHME GARDEN ROAD

1/6/2025 Drwn: CAL Chkd: JRL

![](_page_97_Picture_20.jpeg)

Job: 2344 .DWG ID -

![](_page_97_Picture_22.jpeg)

Date: 1/6/2025

![](_page_98_Figure_0.jpeg)

NORTH

SECOND FLOOR - POWER PLAN & SPECIAL SYSTEMS PLAN - BUILDING 3

#### SHEET NOTES

- 1. COORDINATE ALL MOUNTING, LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS.
- 2. COORDINATE ALL MOUNTING OF RECEPTACLES WITH ARCHITECTURAL AND CASEWORK.
- 3. ALL DROP CORD RECEPTACLES TO BE SUSPENDED 72"AFF UNLESS OTHERWISE NOTED.

#### **KEY NOTES**

![](_page_98_Picture_9.jpeg)

![](_page_98_Picture_10.jpeg)

![](_page_98_Picture_11.jpeg)

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GARDEN ROAD

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![](_page_98_Figure_13.jpeg)

The DOH Associates, I ARCHITECTS and PLAN hee Ave Suite 500, \ (509) 662-4781 E BID SET 1/6/202 Job: 2344

Date: 1/6/2025

E2.4B3

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![](_page_99_Picture_0.jpeg)

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 $\langle D \rangle$ 

 $\langle B \rangle$ 

 $\langle A \rangle$ 

![](_page_99_Figure_1.jpeg)

![](_page_99_Picture_2.jpeg)

#### SHEET NOTES

- COORDINATE ALL MOUNTING, LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS.
- 2. COORDINATE ALL MOUNTING OF RECEPTACLES WITH ARCHITECTURAL AND CASEWORK.
- ALL DROP CORD RECEPTACLES TO BE SUSPENDED 72"AFF UNLESS OTHERWISE NOTED.

#### **KEY NOTES**

1 UTILITY METERBASE PER UTILITY REQUIREMENTS. REFERENCE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

#### LIGHTING CONTROL SCHEDULE

- a 1 LOW VOLTAGE SWITCH. NUMBER OF BUTTONS PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR (SEE OCCUPANCY SENSOR 'OS' DESCRIPTION BELOW FOR CONTROL INTENT). PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- 2 DUAL TECHNOLOGY WALL OCCUPANCY SENSOR. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN OFF LIGHTS WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
- # 3 a LINE VOLTAGE MANUAL TOGGLE SWITCH. # = DENOTES 3 OR 4 WAY SWITCHING CONDITION a = DENOTES SWITCHING ZONE
- a 4 LOW VOLTAGE DIMMER SWITCH. NUMBER OF DIMMER SWITCHES PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR. PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS NECESSARY. a = DENOTES SWITCHING ZONE
- ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL TECHNOLOGY OCCUPANCY SENSORS. OCCUPANCY SENSORS TO BE CONFIGURED TO TURN 100% OF THE CONTROLLED LIGHTS OFF WITHIN 10 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

SENSORS TO BE CEILING MOUNTED. VERIFY LAYOUT WITH VENDOR SHOP DRAWINGS PRIOR TO PLACEMENT. ADDITIONAL POWER PACK(S) SHALL BE PROVIDED FOR ROOMS WITH CONTROLLED RECEPTACLES.

a = DENOTES SWITCHING ZONE

#### 

![](_page_99_Picture_19.jpeg)

ATCHEE, WASHINGTON 98801 COPYIGH 2021 The DOH Associat

425 OHME GARDEN ROAD

EN

![](_page_99_Picture_22.jpeg)

BID SET: Job: 2344 .DWG ID -

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![](_page_99_Picture_25.jpeg)

![](_page_100_Figure_0.jpeg)

#### DETAIL NOTES

- DETAIL IS SCHEMATIC, ALL ELECTRODES SHOWN MAY NOT EXIST. MAKE CONNECTION TO ALL AVAILABLE ELECTRODES.
- GROUND RODS WITH INSPECTION HOUSING ARE TO BE INSTALLED OUTSIDE OF DRIP LINE OF BUILDING ROOF. REFERENCE TYPICAL GROUND ROD WITH INSPECTION HOUSING DETAIL.
- GROUNDING AND BONDING TO BE IN FULL ACCORDANCE WITH THE CURRENT VERSION OF THE NEC THAT HAS BEEN ACCEPTED FOR USE IN EACH JURISDICTION AND AS AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- MAIN BONDING JUMPER TO BE BY EQUIPMENT MANUFACTURER PER NEC SECTION 250.66

GR	OUNDING ELECTRODE AND BONDING CONDUCTOR SCHEDULE	
REFERENCE # (REF#)	DESCRIPTION	SIZE
1	ANTENNA MASTS	#6
2	BONDING BUS BAR - INTERSYSTEM AND SERVICE	#3/0
3	CABLE TRAYS - POWER	#2
4	CABLE TRAYS - SPECIAL SYSTEMS	#2
5	CONCRETE ENCASED REBAR	#3/0
6	GROUNDING BUS BARS - SPECIAL SYSTEMS	#3/0
7	GROUNDING ELECTRODE CONDUCTOR	#3/0
8	GROUND RINGS	#2
9	GROUND RODS	#6
10	MAIN BONDING JUMPER	NOTE 4
11	PIPES, METAL - GAS	#6
12	PIPES, METAL - WATER	#3/0
13	OTHER CONNECTIONS CALLED OUT ON PLANS	#6
14	STRUCTURAL STEEL	#3/0
15	TELECOM BACKS	#2

![](_page_100_Figure_7.jpeg)

![](_page_100_Figure_8.jpeg)

#### GROUNDING ELECTRODE AND BONDING SYSTEM

![](_page_100_Figure_10.jpeg)

SCALE: NTS

#### SERVICE EQUIPMENT

NEUTRAL BUS -

GROUND BUS —

REF#10 —

#### DETAIL NOTES

- IF SUITABLE SOILS ARE NOT FOUND AT THE ELEVATIONS SHOWN, EXCAVATE AND REPLACE WITH ENGINEERED FILL AS

- PAD SHALL BE MINIMUM 12 INCHES LONGER AND WIDER THAN EQUIPMENT SUPPLIED. ADJUST PAD DIMENSIONS FOR EQUIPMENT SUPPLIED.
- UNDISTURBED SOIL NEAR PAD CORNERS. INTERCONNECT WITH #4/0 BARE COPPER GROUND CABLE. CONNECT TO GENERATOR GROUND LUG AND TO EXISTING MAIN SWITCHBOARD GROUND BUS WITH #4/0 CABLE.
- PROVIDE A MINIMUM OF (6) 1/2" DIAMETER THREADED J-HOOKS EXTENDING 10" INTO THE PAD FOR GENERATOR FRAME MOUNTING. VERIFY LOCATIONS AND EXACT INSTALLATION DETAILS WITH GENERATOR MANUFACTURER PRIOR TO COMMENCEMENT OF WORK.
- GENERATOR FASTENERS SHOULD INCLUDE EARTHQUAKE RESTRAINTS DESIGNED FOR ZONE AND RECOMMENDED BY GENERATOR MANUFACTURER.
- . PROVIDE WORKING CLEARANCE TO MEET MANUFACTURERS CLEARANCE RECOMMENDATIONS AND SITE CONDITIONS.
- . MAINTAIN A MINIMUM FINAL WORKING CLEARANCE OF 3'-0" AT EACH END AND AT THE REAR OF THE GENERATOR AND 3'-0" CLEAR FRONTAL ACCESS FOR PREVENTATIVE MAINTENANCE AND REPAIR. VERIFY REQUIREMENTS WITH GENERATOR MANUFACTURER AND SITE CONDITIONS.

#### SCALE: NTS

![](_page_100_Picture_32.jpeg)

![](_page_100_Picture_33.jpeg)

![](_page_100_Figure_34.jpeg)

![](_page_100_Picture_35.jpeg)

![](_page_100_Picture_36.jpeg)

#### TYPICAL GROUND BUS BAR FOR INTERSYSTEM AND SERVICE GROUNDING SCALE: NTS

DIRECTED BY THE ENGINEER. THE DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500PSF. . ENSURE AND PROVIDE OPENINGS FOR GENERATOR PRIMARY AND SECONDARY CIRCUITS AS REQUIRED.

. CONCRETE SHALL ACHIEVE 4000 PSI AT 28 DAYS AND SHALL BE AIR ENTRAINED. CHAMFER EXPOSED EDGES 3/4".

VERIFY ALL REQUIREMENTS WITH GENERATOR MANUFACTURER. FURNISH AND INSTALL (4) 3/4"X10' GROUND RODS IN

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![](_page_100_Picture_47.jpeg)

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	DETAIL KEYNOTES
	POLE BUTT BASE OF STEEL PLATE, FINISHED SAME AS POLE, WITH 2-PIECE STEEL BASE CANOPY COVER FINISHED SAME AS POLE. CANOPY COVER SHALL BE SECURED WITH TAMPER-PROOF 316 STAINLESS STEEL BOLTS.
$\left  \left\langle 2 \right\rangle \right $	REINFORCED BASKET, FABRICATED FROM RE-BAR, 6-#5 VERTICAL AND #3 TIES AT 12" O.C.
3	ANCHOR BOLTS. QUANTITY, SIZE AND TENSILE STRENGTH DETERMINED BY MANUFACTURER.
$\left  \begin{array}{c} 4 \end{array} \right $	STUB SERVICE CONDUIT UP INTO POLE BASE WIRING CAVITY AND BUSH.
5	PROVIDE SUPPORT AND LEVELING NUTS AT TOP AND BOTTOM OF POLE BASE PLATE. TWO NUTS PER ANCHOR BOLT. BOLT SPACING PER MOUNTING PLATE.
6	3#3 TIES WITHIN TOP 8" OF BASE STRUCTURE.
7	POLE BASE TO EXTEND 24" ABOVE GRADE.
8	(1) SCHEDULE 40 PVC CONTROL CONDUIT AND (1) POWER CONDUIT UNLESS OTHERWISE NOTED MUST INCLUDE GROUND WIRE (INCLUDE ADDITIONAL CONTROL AND POWER CONDUITS AS REQUIRED)

![](_page_101_Figure_1.jpeg)

![](_page_101_Picture_2.jpeg)

TYPICAL POLE BASE - ABOVE GRADE

	DETAIL KEYNOTES						
$\langle 1 \rangle$	POWER PACKS TO BE MOUNTED IN ACCESSIBLE CEILING SPACE WITHIN 5 FEET OF DOOR FOR ROOM SERVED WHERE POSSIBLE.						
$\langle 2 \rangle$	OCCUPANCY SENSORS SHALL BE UL916 LISTED AND PROVIDED WITH AN AUXILIARY RELAY FOR CONNECTION TO HVAC CONTROL SYSTEM.						
$\langle 3 \rangle$	RECEPTACLE SHALL HAVE "CONTROLLED" ENGRAVED ON FACE. REFERENCE PLANS FOR CONTROLLED RECEPTACLE LOCATIONS.						
$\langle 4 \rangle$	UNSWITCHED 24/7 POWER.						
5	DRIVER MAY BE EXTERNAL OR INTEGRAL TO LUMINAIRE.						
6	EMERGENCY DRIVER TO POWER LUMINAIRE ON FAILURE OF NORMAL DRIVER POWER. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER. EMERGENCY DRIVERS ONLY TO BE PROVIDED FOR FIXTURES NOTED ON PLANS AS EMERGENCY.						
DETAIL NOTES							
1							

COORDINATE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE ALL ELECTRICAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. AN APPROVED DIGITAL EQUAL MAY BE USED IN LIEU OF THE SYSTEM SHOWN IN THIS DIAGRAM.

- ASSOCIATED CONDUCTORS SHALL BE 600V RATED UNLESS OTHERWISE NOTED.
- LOW VOLTAGE WIRING CONCEALED WITHIN WALLS OR ABOVE HARD-LID CEILING SHALL BE ROUTED WITHIN RACEWAY.

OCCUPANCY SENSORS CEILING / WALL  $\left( 2 \right)$ 

![](_page_101_Figure_9.jpeg)

MOMENTARY CONTACT SWITCHES

![](_page_101_Figure_11.jpeg)

- 1#10 STRANDED TO LIGHTING FIXTURE - CRIMP - GRS CONDUIT. WRAP WITH TAPE WHERE CONTACT WITH EARTH OCCURS - FOLLOWING INSTALLATION AND LEVELING OF POLE/LUMINAIRE ASSEMBLY, GROUT-IN ALL AROUND BETWEEN BOTTOM OF POLE BASE AND TOP OF CONCRETE BASE - PVC CONNECTION — GROUND ROD 3/4"x10'-0" LONG LIGHTING BRANCH

![](_page_101_Picture_15.jpeg)

#### DETAIL NOTES

- ALL SYSTEM DEVICES PROVIDED BY EQUIPMENT VENDOR, INSTALLED BY EC, UNLESS OTHERWISE NOTED.
- DETAIL IS SCHEMATIC, COORDINATE ALL NECESSARY DEVICES AND APPURTENANCES WITH OWNER'S IT INSTALLER OR PREFERRED VENDOR, AND ARCHITECTURAL DOOR SCHEDULE.
- MAGNETIC LOCK CONFIGURATIONS:
- 3.a. (1) MAGNETIC LOCK RATED AT .5 AMPS AT 24VDC. #16 CONDUCTORS INDICATED ARE FOR UP TO 500 FEET FROM DOOR CONTROLLER; FOR LONGER RUNS, UPSIZE CONDUCTORS AS REQUIRED.
- 3.b. (2) MAGNETIC LOCKS RATED AT .5 AMPS EACH AT 24VDC. PROVIDE #14 CONDUCTORS UP TO 500 FEET FROM DOOR CONTROLLER; FOR LONGER RUNS, UPSIZE CONDUCTORS AS REQUIRED.
- BUTTON FOR EXITING TO BE DOUBLE POLE WITH MOMENTARY ACTION. ONE POLE SHALL DIRECTLY BREAK THE CURRENT TO THE MAGNETIC LOCK. THE OTHER POLE SHALL BE USED AS AN INPUT TO THE DOOR CONTROLLER TO RELEASE THE MAGNETIC LOCK FOR PROGRAMMED TIME PERIOD ON ACTIVATION.
- 5. SEE SPECIAL SYSTEMS PLAN FOR SECURITY DOOR TYPES AND LOCATIONS. TYPES TO BE VERIFIED WITH ARCHITECT.

#### DETAIL KEYNOTES

1 PROVIDE 1"C TO SECURITY HEAD-END EQUIPMENT ENCLOSURE
2 PROVIDE 4" SQUARE JUNCTION BOX.
3 PROVIDE 4" SQUARE JUNCTION BOX PROVIDING PATHWAY FROM POWER SUPPLY/CONTROLLER TO DOOR VIA FRAME TRANSFER HARDWARE.
$\langle 4 \rangle$ provide single-gang junction box on exterior side of door for card reader.
5 PROVIDE SINGLE-GANG JUNCTION BOX ON INTERIOR SIDE OF DOOR FOR MOTION SENSOR REQUEST TO EXIT FUNCTION.
6 DOOR HINGE POSITION CONTACT (TYPICAL).
$\left< \frac{7}{7} \right>$ MAGNETIC LOCK. COORDINATE QUANTITY AND TYPE PER SYSTEM REQUIREMENTS.
8 PROVIDE 3/4" CONDUIT 120V POWER TO POWER SUPPLY/CONTROLLER.
$\langle 9 \rangle$ provide 3/4" conduit for fire alarm override conductors.

![](_page_101_Figure_26.jpeg)

![](_page_101_Picture_27.jpeg)

![](_page_101_Picture_28.jpeg)

## 9880 **NOTONIHSA** HEE, CF AT EZ OHME GARDEN ROAD 425

![](_page_101_Picture_30.jpeg)

BID SET

Job: 2344 .DWG ID -

1/6/202 Date: 1/6/2025

![](_page_102_Figure_0.jpeg)

	1		
SIZE	SETS		
AMPS			1
		(NOTE 5)	
		3 PH 3 W	3 I 4'
15	1	3/4	3
20	1	3/4	3
25	1	3/4	3.
30	1	3/4	3
35		3/4	3,
40		3/4	3.
45	1	* 3/4	
50		~ 3/4 * 1	1
70		* 1	1-
80		1	1-
90		1-1/4	1-1
100	1	* 1-1/4	1-'
110	1	* 1-1/4	1-'
125	1	* 1-1/2	
150	1	* 1-1/2	
175	1	1-1/2	
200	1	2	2
225	1	* 2	2-'
250	1	2	2-'
300	1	* 2-1/2	
350	1	* 3	3-'
400	1	* 3	3-'
450	2	* 2	2-'
500	2	2	2-'
600	2	* 2-1/2	
700	2	* 3	3-'
800	2	* 3	3-1
	3513	NONE	N
AIVIP3		(NOTE 5)	1
		3 PH 3 W	3 I 4
1000	4	2	2
1200	4	× 2_1/2	2-
1600	4	*3	3-
2000	6	2-1/2	
2500	6	* 3	3-
3000	8	* 3	3-'
4000	10	* 3	3-'
5000	12	* 3	3-'
NOTE 1	THE RAC DIMENSI	CEWAY FILL ONS ARE FF	CALC ROM N
NOTE 2 NOTE 3	CONDUC CONDUC	T SIZE IS BA CTOR SIZES C TERMINAI	SED C ARE L S FOF
NOTE 4	FOR THE	REE WIRE SI	NGLE
NOTE 5	FOR SIN	GLE PHASE	SERV
			리트머
NOTE 7	FORIAS		S RF
NOTE 8	USE THI	S COLUMN F	OR S
	ELECTR	ODE CONDU	ICTOR
NOTE 9	USE THI	S COLUMN F THIS COLUM	FOR SI
*	CONSIDI THE EGO	ER INCREAS	ING T
SUBSCR		CIRCUIT	IDF
		(3) PHASE (	
		(3) PHASE (	
G		(3) PHASE (	
NG		(3) PHASE (	
NNG	1	(3) PHASE (	
NGI	-	(3) PHASE (	
NNG		(3) PHASE (	CONDI
GS		(1) PHASE (	CONDI
EGC/IFGC		(1) EQUIPM	ENTC

#### **KEY NOTES**

![](_page_102_Picture_4.jpeg)

(2) COORDINATE ALL WORK AND PROVIDE ALL REQUIREMENTS OF THE ELECTRICAL UTILITY.

'T1' IS A LOAD SUMMARY FOR BOTH TRANSFORMER 'T1' AND THE ELECTRICAL SERVICE FOR BUILDING 1.

'B2' IS A LOAD SUMMARY FOR THE ELECTRICAL SERVICE FOR BUILDING 2.  $\langle 4 \rangle$ 

 $\langle$  5  $\rangle$  'B3' IS A LOAD SUMMARY FOR THE ELECTRICAL

SERVICE FOR BUILDING 3.

![](_page_102_Picture_10.jpeg)

SPARE CONDUIT FOR FUTURE EM ANTENNA TOWER FEED. REFERENCE SITE PLAN FOR ADDITIONAL INFORMATION.

	COPPER FEEDER SCHEDULE													
		CONDUIT T	RADE SIZE		CONDUCTORS									
		(NOT	ΓE 2)		(NOTE 1) (NOTE 3)									
	G	NG	NGI	NNG	NNGI	GS	PHASE/	EGC/	AMPACITY					
	(NOTE 4)					(NOTE 6)	NEUTRAL	IEGC	(NOTE 8)					
								(NOTE 9)						
Н	β PH or 1 PH	3 PH	3 PH	3 PH	3 PH	1 PH								
/	3W	4W	4W	4W	4W	2W								
	EGC	EGC	EGC/IEGC	EGC	EGC/IEGC	EGC								
ŀ	3/4	3/4	3/4	3/4	3/4	3/4	12	12	8	20				
ŀ	3/4	3/4	3/4	3/4	3/4	3/4	12	12	8	20				
ļ	3/4	3/4	3/4	1	1	3/4	10	10	8	30				
ŀ	3/4	3/4	3/4	1	1	3/4	10	10	8	30				
-	3/4	1	1	1	1-1/4	3/4	8	10	8	40				
-	3/4	1	1	1	1-1/4	3/4	8	10	8	40				
	1	1	1	1-1/4	1-1/4	3/4	6	10	8	55				
	1	1	1	1-1/4	1-1/4	3/4	6	10	8	55				
4	1	1-1/4	1-1/4	1-1/4	2	1	4	10	8	70				
4	1-1/4	1-1/4	1-1/4	1-1/2	2	1	4	8	8	70				
4	1-1/4	1-1/4	1-1/4	1-1/2	2	1	3	8	8	85				
4	1-1/4	1-1/2	1-1/2	2	2	1	2	8	8	95				
2	1-1/2	1-1/2	2	2	2-1/2	1-1/4	1	8	6	110				
2	1-1/2	1-1/2	2	2	2-1/2	1-1/4	1	6	6	110				
	1-1/2	2	2	2	3	1-1/4	1/0	6	6	150				
	1-1/2	2	2	2	3	1-1/4	1/0	6	6	150				
	2	2	2	2-1/2	3	1-1/2	2/0	6	4	170				
	2	2	2-1/2	3	3-1/2	1-1/2	3/0	6	4	200				
2	2	2-1/2	2-1/2	(NOTE 7)	(NOTE 7)	2	4/0	4	2	230				
2	2-1/2	3	3	(NOTE 7)	(NOTE 7)	2	250	4	2	255				
	3	3	3	(NOTE 7)	(NOTE 7)	2	350	4	2	310				
2	3	3-1/2	3-1/2	(NOTE 7)	(NOTE 7)	2-1/2	500	3	1/0	380				
2	3-1/2	4	4	(NOTE 7)	(NOTE 7)	3	600	3	1/0	420				
2	2	2-1/2	2-1/2	(NOTE 7)	(NOTE 7)	2	4/0	2	1/0	460				
2	2-1/2	3	3	(NOTE 7)	(NOTE 7)	2	250	2	1/0	510				
	3	3	3	(NOTE 7)	(NOTE 7)	2-1/2	350	1	2/0	620				
2	3	3-1/2	3-1/2	(NOTE 7)	(NOTE 7)	2-1/2	500	1/0	2/0	760				
2	3-1/2	4	4	(NOTE 7)	(NOTE 7)	3	600	1/0	3/0	840				

		CONDUIT T	FRADE SIZE	CONDUCTORS						
		(NO	TE 2)	(NOTE 1) (NOTE 3)						
N	G	NG	NGI	NNG	NNGI	GS				
	(NOTE 4)					(NOTE 6)	PHASE/	EGC/	GEC/	AMPACITY
PH	β PH or 1 PH	3 PH	3 PH	3 PH	3 PH	1 PH	NEUTRAL	IEGC	SSBJ	
W	3W	4W	4W	4W	4W	2W		(NOTE 9)	(NOTE 8)	
	EGC	EGC	EGC/IEGC	EGC	EGC/IEGC	EGC				
·1/2	2-1/2	3	3	(NOTE 7)	(NOTE 7)	2	250	2/0	2/0	1020
3	3	3	3-1/2	(NOTE 7)	(NOTE 7)	2-1/2	350	3/0	3/0	1240
1/2	3-1/2	4	4	(NOTE 7)	(NOTE 7)	3	600	4/0	300	1680
3	3	3-1/2	3-1/2	(NOTE 7)	(NOTE 7)	2-1/2	400	250	300	2010
1/2	3-1/2	4	5	(NOTE 7)	(NOTE 7)	3	600	350	400	2520
·1/2	3-1/2	3-1/2	4	(NOTE 7)	(NOTE 7)	3	500	400	500	3040
·1/2	3-1/2	4	5	(NOTE 7)	(NOTE 7)	3	600	500	** 600	4200
1/2	3-1/2	4	5	(NOTE 7)	(NOTE 7)	3	600	** 600	** 600	5040

CULATIONS HAVE BEEN PERFORMED USING INSULATION TYPE THHN

NEC CH. 9, TABLES 4 AND 5. THE EGC/IEGC INSULATION IS THE SAME AS IT IS FOR THE PHASE/NEUTRAL CONDUCTORS

ON SCHEDULE 80 PVC.

LIMITED TO 1/0 AWG THROUGH 600 KCMIL, AND ARE BASED ON:

R CIRCUITS RATED 100 AMPS OR LESS. 75 DEG C TERMINALS FOR ALL OTHER SIZES. PHASE FEEDERS AND BRANCH CIRCUITS, USE THIS COLUMN.

VICES, USE THIS COLUMN

HASE FEEDERS AND BRANCH CIRCUITS, USE THIS COLUMN. EQUIRING 200% RATED NEUTRALS, SEE ONELINE DIAGRAM FOR SPECIFIC CONDUIT AND CONDUCTOR SIZES AND QUANTITIES SIZING SEPERATELY DERIVED SYSTEMS GROUNDING CONDUCTORS, [NEC TABLE 250.66] AND FOR SIZING GROUNDING ORS [NEC TABLE 250.122].

SIZING EQUIPMENT GROUNDING CONDUCTORS (NEC TABLE 250.122)

USED, VERIFY ADEQUATE CONDUIT SIZING FOR INCREASED GROUND CONDUCTOR SIZING

THE RACEWAY BY ONE TRADE SIZE TO PREVENT POSSIBLE JAMMING [NEC CHAPTER 9, TABLE 1, INFORMATIONAL NOTE 2 ED TO BE LARGER IN SIZE THAN THE CIRCUIT CONDUCTORS [NEC 250.122(A) **NTIFICATION KEY** 

UCTORS, (0) EGC OF THE WIRE TYPE. JCTORS, (1) NEUTRAL CONDUCTOR, (0) EGC OF THE WIRE TYPE. JCTORS, (200% RATED) NEUTRAL CONDUCTOR, (0) EGC OF THE WIRE TYPE JCTORS, (1) EGC

JCTORS, (1) NEUTRAL CONDUCTOR, (1) EGC JCTORS, (200% RATED) NEUTRAL CONDUCTOR, (1) EGC

JCTORS, (1) NEUTRAL CONDUCTOR, (1) EGC, (1) ISOLATED EGC (IEGC) JCTORS, (200% RATED) NEUTRAL CONDUCTOR, (1) EGC, (1) ISOLATED EGC (IEGC)

JCTORS, (1) NEUTRAL CONDUCTOR, (1) EGC

ROUNDING CONDUCTOR/ISOLATED EQUIPMENT GROUNDING CONDUCTOR ELECTRODE CONDUCTOR/ISOLATED EQUIPMENT GROUNDING CONDUCTOR

![](_page_102_Picture_30.jpeg)

![](_page_102_Picture_31.jpeg)

9880 NO Ċ ASHIN  $\geq$ AT EZ **CARDEN ROAD** OHME <u></u>**£25** 

![](_page_102_Picture_34.jpeg)

BID SET: Job: 2344 .DWG ID -

1/6/2025

Date: 1/6/2025

	D1 ∆								
∎		SURFACE	VO	_TS 240/	/120\	/ 2P 3W	MAIN MLO		
			BUS	S AMPS	600		LUGS STANDARD		
٦	NOTE 1	OCATED IN BUILDING 1	NEU	JTRAL 1	00%		AIC 42,000		
1	NOTE 2								
CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA A	LOAD	CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA I A	LOAD B
1	20/2	OEB1-02	1.9		2	40/2	HP-1.1	2.7	
5	20/2	OEB1-02	1.9	1.9	4	 40/2	HP-1.3	2.7	2.7
7	20/2	OEB1-02	1.9	1.9	8 10	 30/2	HP-1.2	1.6	2.7
11	     70/2	FC-1.3	5	1.9	12 14	 40/2	HP-1.4	2.7	1.6
15	30/2	FE-1		5	16	20/2			2.7
19				2	20			2.4	2.4
21	/0/2	FC-1.4	5	5	22 24	20/2	FC-1.1, FC-1.2, FC-1.5	0.14	0.14
25	70/2	OEB1-04	4.8	4.8	26 28	15/2 	ERV-1.1	0.39	0.39
29	30/2	HP-1.5	2.3	2.3	30 32	15/2 I	ERV-1.2	0.39	0.39
33	20/1	[GFCI BREAKER] HT-01	1.4	14	34	30/2	WH-1	2.4	24
37	20/1	[GFCI BREAKER] HT-01	0.96		38	30/2	WH-2	2.9	2.4
39 41	20/1 20/1	SPARE SPARE	0	0	40 42	 20/1	CP-1	0.04	2.9
43 45	20/1 20/1	SPARE SPARE	0	0	44 46	15/2 	BDU-1.1	0.08	0.08
47	20/1	SPARE SPARE	0	0	48 50	20/1	HLVS-1.1 HLVS-1.2	0.6	0.6
51	20/2	SPARE		0	52	20/2	OEB1-02	1.0	1.9
55				•	54	. 1	TOTAL CONNECTED KVA BY PHASE	48	47
							TOTAL CONNECTED AMPS BY PHASE	400	390
	-	CONN. K	VA CALC. K	/A			CONN. KVA CALC.	KVA	•
		LIGHTING 0 LARGEST MOTOR 9.6	0 2.4	(125%) (125%)			CONTINUOUS 11 13 HEATING 24 24	(125	5%) )%)
		OTHER MOTORS 46	46	(100%)	١		NONCONTINUOUS 15 15	(100	)%)
		COMPUTER 0	0.04	(100%)	)		NONCOIN/DIVERSE 0 0	(N/A	4) 4)
							TOTAL KVA 96 100 BALANCED PHASE AMPS 420		
L									
	)1F								
			VO	TS 240/	/120\	/ 2P 3W	ΜΔΙΝ ΜΙΟ		
		Source	BUS	S AMPS	400	/ 21 51	LUGS STANDARD		
			NEU	JTRAL 1	00%		AIC 42,000		
ſ	NOTE 1	OCATED IN BUILDING I							
CKT	СКТ		KVA	LOAD	СКТ	СКТ		KVA I	LOAD
1	20/1	EXTERIOR LIGHTING	0.24	В	# 2	ВКR 40/2	EVR	A 3.8	В
3	20/1 20/1	LIGHTING LIGHTING	1.9	0.62	4	 40/2	EVC	3.8	3.8
7	20/2	[GFCI BREAKER] OEB1-03	1.0	1.9	8	20/1	OEB1-03	1	3.8
11	20/1	SPARE		0	12	20/1	OEB1-03		1
13	20/1 20/1	RECEP	0.18	0.54	14 16	20/1 20/1	OEB1-03 OEB1-03	1	1
17 19	20/1 20/1	RECEP RECEP	0.54	0.54	18 20	20/2	[GFCI BREAKER] [GFCI BREAKER] OEB1-01	1.9	1.9
21	20/1	DROP CORD DROP CORD	1		22	20/2	[GFCI BREAKER] OEB1-01	1.9	19
25	20/1	DROP CORD	1		26	20/2	[GECI BREAKER] [GECI BREAKER] OEB1-01	1 1 0	1.0
27	20/1				20			1.9	1.9
31	20/1		1		28 30	 20/1	[GFCI BREAKER] REFRIGERATOR	0.8	
35	20/1	DROP CORD DROP CORD RECEP	1	1	28 30 32 34	 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP	0.8	0.18
1.57	20/1 20/1 20/1	DROP CORD DROP CORD RECEP EH-1 RECEP	1 0.18 0.54	1	28 30 32 34 36 38	 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP	0.8	0.18 0.36
39 41	20/1 20/1 20/1 20/1 20/1	DROP CORD DROP CORD RECEP EH-1 RECEP RECEP RECEP	1 0.18 0.54	1 0.55 0.54	28 30 32 34 36 38 40 42	 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP	0.8 0.36 0.36	0.18 0.36 0.36
39 41 43	20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP	1 0.18 0.54 0.36	1 0.55 0.54 0.36	28 30 32 34 36 38 40 42 44	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP	0.8 0.36 0.36 0.36	0.18 0.36 0.36 0.36
39 41 43 45 47	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP	1 0.18 0.54 0.36 0.36	1 0.55 0.54 0.36 0.36	28 30 32 34 36 38 40 42 44 46 48	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP	<ul> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> </ul>	0.18 0.36 0.36 0.36 0.36
39 41 43 45 47 49 51	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP	1 0.18 0.54 0.36 0.36 0.36	1 0.55 0.54 0.36 0.36 0.36	28 30 32 34 36 38 40 42 44 46 48 50 52	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP	<ul> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> </ul>	0.18 0.36 0.36 0.36 0.36 0.54
39 41 43 45 47 49 51 53 55	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01	1 0.18 0.54 0.36 0.36 0.36 0.36	1 0.55 0.54 0.36 0.36 0.36 1	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8
39 41 43 45 47 49 51 53 55 57 57 50	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE	1 0.18 0.54 0.36 0.36 0.36 0.36 0.36	1 0.55 0.54 0.36 0.36 0.36 1 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>3.8</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8
39 41 43 45 47 49 51 53 55 57 59 61	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8
39 41 43 45 47 49 51 53 55 57 59 61 63 65	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPACE SPACE	1 0.18 0.54 0.36 0.36 0.36 0.36 0.36 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EVR EV EV	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EVR EV EV EV	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 76	 20/1 20/2   40/2   40/2   40/2   40/2   40/2   20/2   20/2	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EVR EV EV EV EV EVC EVR	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 1
<ul> <li>39</li> <li>41</li> <li>43</li> <li>45</li> <li>47</li> <li>49</li> <li>51</li> <li>53</li> <li>55</li> <li>57</li> <li>59</li> <li>61</li> <li>63</li> <li>65</li> <li>67</li> <li>69</li> <li>71</li> <li>73</li> <li>75</li> <li>77</li> <li>79</li> </ul>	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0 0 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 40/2   40/2   40/2   40/2   40/2   20/2   20/2   20/1	[GFCI BREAKER] REFRIGERATOR RECEP	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>1</li> <li>0</li> <li>5</li> </ol>	0.18 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 1 0
<ul> <li>39</li> <li>41</li> <li>43</li> <li>45</li> <li>47</li> <li>49</li> <li>51</li> <li>53</li> <li>55</li> <li>57</li> <li>59</li> <li>61</li> <li>63</li> <li>65</li> <li>67</li> <li>69</li> <li>71</li> <li>73</li> <li>75</li> <li>77</li> <li>79</li> <li>81</li> <li>83</li> </ul>	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPARE SPACE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 40/2   40/2   40/2   40/2   40/2   20/2   20/1 20/2 1 20/2 1 20/2 20/1 20/2 1 20/1 20/2 1 20/1 20/2 1 20/1 20/2 1 20/1 20/1 20/2 1 20/1 20/1 20/2 1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EVR EV EV EV EV EVR SPARE SPARE SPARE SPARE	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>1</li> <li>0</li> <li>0</li> <li>0</li> </ol>	0.18 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 1 0 0
<ul> <li>39</li> <li>41</li> <li>43</li> <li>45</li> <li>47</li> <li>49</li> <li>51</li> <li>53</li> <li>55</li> <li>57</li> <li>59</li> <li>61</li> <li>63</li> <li>65</li> <li>67</li> <li>69</li> <li>71</li> <li>73</li> <li>75</li> <li>77</li> <li>79</li> <li>81</li> <li>83</li> </ul>	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPARE SPACE	1 0.18 0.54 0.36 0.36 0.36 0.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 62 64 66 870 72 74 76 78 80 82 84	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EVR EV EV EV EV EV EVR OES-02 SPARE SPARE SPARE SPARE SPARE SPARE	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>1</li> <li>0</li> <li>0</li> <li>48</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1 0.18 0.54 0.36 0.36 0.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 40/2   40/2   40/2   40/2   40/2   20/2   20/1 20/2 1 20/2 1 20/2 1 20/1 20/2 1 20/1 20/2 1 20/1 20/1 20/2 1 20/1 20/2 1 20/1 20/2 1 20/1 20/1 20/2 1 20/1 20/1 20/2 1 20/1 20/1 20/1 20/2 1 20/1	IGFCI BREAKER] REFRIGERATOR RECEP SPARE SP	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>3.8</li> <li>1</li> <li>0</li> <li>0</li> <li>48</li> <li>400</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 1 0 0 48 400
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1 0.18 0.54 0.36 0.36 0.36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR         RECEP         EV         EV         EV         EVR         OES-02         SPARE         SPARE         SPARE         SPARE         SPARE         SPARE         SPARE         TOTAL CONNECTED KVA BY PHASE	<ol> <li>1.9</li> <li>0.8</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.36</li> <li>0.54</li> <li>3.8</li> <li>400</li> <li>KVA</li> </ol>	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 4.0 0 48 400
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPARE SPACE S	1         0.18         0.54         0.36         0.36         0.36         0.36         0.36         0.51	1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	I GI GI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EVR EV EV EV EV EV EV EV EV EV EV	1.9 0.8 0.36 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 1 0 0 48 400 KVA (125 (100)	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPARE SPACE S	1         0.18         0.54         0.36         0.36         0.36         0.36         0.36         0.36         0.51         6         48	1 0.55 0.54 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	I GI GI DICHINEN [ OF GI DICHINEN ] OEDT OF I GFCI BREAKER] REFRIGERATOR RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP RECEP EV EV EV EV EV EV EV EV EV EV	1.9 0.8 0.36 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 1 0 0 48 400 5%) 0%) 0%)
39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DROP CORD DROP CORD RECEP EH-1 RECEP RECEP RECEP RECEP RECEP RECEP RECEP SITE - OES-01 SPARE SPARE SPARE SPARE SPARE SPACE S	1         0.18         0.54         0.36         0.36         0.36         0.36         0.36         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         VA         CALC. KV         3.4         0.51         6         48         0	1 1 0.55 0.54 0.36 0.36 0.36 1 0 0 0 0 0 0 0 0 0 0 0 0 0	28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 	 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	[GFCI BREAKER] REFRIGERATOR         RECEP         REV         EV         EV         EV         EVR         OES-02         SPARE	1.9 0.8 0.36 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.18 0.36 0.36 0.36 0.36 0.54 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8

F	24	7							
	MOUNTIN	G SURFACE	VOL	TS 240	/120	V 2P 3W	MAIN MLO		
			BUS	AMPS	800		LUGS STANDARD		
			NEU	TRAL 1	100%		AIC 42,000		
	NOTE 1	LOCATED IN BUILDING 2					,		
	NOTE 2								
СКТ	скт		KVA	LOAD	Іскт	скт		KVA	
#	BKR	CIRCUIT DESCRIPTION	A	B	#	BKR	CIRCUIT DESCRIPTION	A	В
1	30/2	WH-2	2.9		2	40/2	HP-2.1	2.7	
3				2.9	4				2.7
5	20/1	RECEP	0.18		6	40/2	HP-2.2	2.7	
7	20/1	RECEP		0.54	8				2.7
9	20/1		0.8	1.0		15/2	BDU-2.1	0.08	
113	20/2	[GFCI BREAKER] OED2-00	1 9	1.9		20/2	FC-214 FC-213 FC-212	0 14	0.0
15	20/1	RECEP	1.5	0.18	16			0.14	0.1
17	20/1	OEB2-07	1		18	40/2	HP-2.4	2.7	
19	20/1	EH-1		0.55	20				2.7
21	20/1	MAIN FLOOR STORAGE AND OFFICE AREA LIGHTING	1.6		22	40/2	HP-2.5	2.7	
23	20/1	UPPER FLOOR LIGHTING		0.44	24				2.7
25	20/1		1.2	1 5	26	20/2	FC-2.2.4, FC-2.2.3, FC-2.2.2, FC-2.2.1	0.19	
2/	20/1	[GFCI BREAKER] HI-03, HI-04, HI-05		1.5	28			0.20	0.1
29	20/1	SPARE		0	30	15/2	ERV-2.1	0.39	03
33	20/1	SPARE	0	Ŭ	34	70/2	FC-2.4	5	0.5
35	20/1	SPARE	-	0	36				5
37	20/1	OEB2-07	1		38	70/2	FC-2.5	5	
39	20/1	OEB2-07	İ	1	40				5
41	20/2	SPARE	0		42	20/1	HLVS-2.1	0.6	
43				0	44	20/1	HLVS-2.2		0.6
45	20/2	SPARE	0		46	15/2	BDU-2.2	0.08	
4/	20/1	RECEP	0.54	0	48	20/1	DECED	0.72	0.0
51	20/1	RECEP	0.54	0.72	52	400/2	TRANSFER SWITCH ATS1	0.72	42
53	20/1	RECEP	0.54		54			40	
							TOTAL CONNECTED KVA BY PHAS	E 75	75
							TOTAL CONNECTED AMPS BY PHAS	E 620	620
		CONN KVA		Δ		!			
			6.9	(125%)				(12	- 250%)
		LARGEST MOTOR 5.4	1.4	(125%)			HEATING 59 59	(12	.0%) )0%)
		OTHER MOTORS 45	45	(100%)			NONCONTINUOUS 0 0	(10	)0%)
		RECEPTACLES 34	22 (	50%>10	))		KITCHEN EQUIP 0 0	(N/	/A) ́
		COMPUTER 0	0	(100%)			NONCOIN/DIVERSE 0 0	<u>(N</u> /	/A)
							TOTAL KVA 150 140		
							BALANCED PHASE AMPS 590		

F	2E	3								
		SURFACE		VOL	TS 240	/120	V 2P 3W	MAIN MLO		
				BUS		400				
				NEU						
.				NEU	IRAL 1	100%		AIC 42,000		
'	NOTE I	LOCATED IN BUILDING 2								
	NOTE 2									
СКТ	СКТ			KVA	LOAD	СКТ	СКТ		KVA	LOAD
#	BKR	CIRCUIT DESCRIPTION		A	В	#	BKR	CIRCUIT DESCRIPTION	Α	В
1	20/1	[GFCI BREAKER] REFRIGERATOR	ર	0.8		2	20/1	[GFCI BREAKER] RECEP	0.36	1
3	50/2	OEB2-03			4.8	4	20/1	[GFCI BREAKER] RECEP		0.36
5				4.8		6	20/1	[GFCI BREAKER] RECEP	0.36	
7	15/2	OEB2-05			1.4	8	20/1	[GFCI BREAKER] RECEP		0.36
9				1.4	0.2		20/1		0.36	
11	20/1	0EB2-05.2			0.3	12	20/2	[GFCI BREAKER] OEB2-04		0.05
15	20/1	UEB2-03.3		0.2	27	14	20/1		0.05	0 10
17	40/2	115-2.5		27	2.7	18	20/1	FF-2	1 2	0.19
19	20/2	FRV-2.2		2.7	1.7	20	20/2		1.2	1.2
21				1.7		22	70/2	FC-2.3	5	
23	200/2	MAU-1			14	24				5
25				14		26	20/1	HLVS-2.4	0.19	1
27	20/1	CORONER SPACE LIGHTING			1.3	28	20/1	RECEP		0.72
29	20/1	EXTERIOR LIGHTING		1	[	30	20/1	RECEP	0.9	[
31	20/1	[GFCI BREAKER] RECEP			0.36	32	20/1	SPARE		0
33	20/1	[GFCI BREAKER] RECEP		0.54		34	20/1	RECEP	0.72	
35	20/1	[GFCI BREAKER] RECEP			0.54	36	20/1	RECEP		0.72
37	20/2	[GFCI BREAKER] OEB2-02		2.3		38	20/1	RECEP	0.36	
39					2.3	40	20/1			
41	20/1			1.5	0.19	42	20/1			0.10
45	20/1	RECEP		0.36	0.10	44	20/1	RECEP	0.36	0.10
47	20/1	RECEP			0.36	48	20/1	CP-1	0.50	0.04
49	20/1	RECEP		0.36		50	-/1	SPACE	0	
51	20/1	RECEP			0.72	52	-/1	SPACE	Ĩ	0
53	20/1	RECEP		0.18		54	-/1	SPACE	0	1
								TOTAL CONNECTED KVA BY PHASE	42	40
								TOTAL CONNECTED AMPS BY PHASE	350	330
	<u> </u>					-	ļ			<u> </u>
		<u> </u>		CALC. KV	A			CONN. KVA CALC	KVA	-
			3.5	4.3	(125%)			CONTINUOUS 0 0	(12:	5%)
			5.4	1.4	(125%)			HEATING 36 36	(100	U%) 0%)
			17	10 ()	(100%) 500% \ 10				(100 (N/	J%) A)
			0	10 (:	/100%)	<i>'</i> )			(N//	
		COM OTER	0	U C	(100/0)			TOTAL KVA 82 77		·)
								BALANCED PHASE AMPS 320		

# NOTE 1 LOCATED I NOTE 2 CKTCKT#BKR120/1320/1520/1720/1920/11120/11320/11520/11720/11920/11720/11920/12120/12320/12420/12520/12720/12920/13120/13320/13420/13520/13720/14120/14320/14520/14720/14920/15120/15320/15420/15520/15720/15820/16120/16320/16420/17120/17320/17420/17520/17720/17820/17920/18120/18320/1 CIRCUIT RECEP P3B MOUNTING SURFACE NOTE 1 LOCATED IN NOTE 2 CKT CKT # BKR 1 20/1 3 20/1 5 20/1 7 20/1 9 20/1 11 20/1 9 20/1 13 20/1 15 30/2 17 | 19 30/2 21 | 23 20/1 25 20/1 27 20/1 29 20/1 31 20/1 33 20/1 35 -/1 37 -/1 39 -/1 41 -/1

P3A

MOUNTING SURFACE

![](_page_103_Picture_4.jpeg)

MAIN MLO

![](_page_103_Picture_5.jpeg)

ON CAMPUS WENATCHEE, WASHINGTON 98801 **OLDS ST** 425 OHME GARDEN ROAD 

The DOH Associates, PS	<b>ARCHITECTS and PLANNERS</b>	hee Ave Suite 500, Wenatchee, Washington 98801	(509) 662-4781 Facsimilie (509) 663-3253
		7 N Wenatc	Telephone

J SET: X/X/XXXX Job: 2344 Date: 01/06/2024 .DWG ID -

E6.2

	BUS	AMPS	600		LUGS STANDARD		
	NEU	TRAL 1	00%		AIC 42,000		
IN BUILDING 3							
	KVA	LOAD	СКТ	СКТ		KVA L	OAD
T DESCRIPTION	A	В	#	BKR	CIRCUIT DESCRIPTION	А	В
	0.36	ļ	2	40/2	HP-3.1	2.7	
	0.00	0.36	4				2.7
	0.36	0.0	6 8	40/2	HP-3.2	2./	2 7
	0.18	0.5	10	1 40/2	HP-3.3	2.7	2.7
		0.9	12				2.7
	0.54		14	40/2	HP-3.4	2.7	
REAKER] REFRIGERATOR	0.26	0.8	16			-	2.7
	0.30	0.54	20	/0/2	FC-3.1.1	5	5
	0.54		22	15/2	BDU-3.1	0.08	5
		0.36	24				0.08
	0.36		26	20/2	FC-3.1.4, FC-3.1.3, FC-3.1.2	0.14	
	0.26	0.36	28			0.24	0.14
	0.30	0.36	30	20/2	FC-3.2.3, FC-3.2.2, FC-3.2.1, FC-3.3.3, FC-3.3.1, FC-3.4.2, FC-3.4.1	0.34	0 34
	0.36		34	70/2	FC-3.3.2	5	0.51
		0.36	36	Ι			5
	0.36		38	15/2	BDU-3.2	0.08	
	0.36	0.36	40	 15/2		0.08	0.08
	0.50	0.54	44	13/2	5.5-000	0.00	0.08
	0.36	Ì	46	15/2	BDU-3.4	0.08	
		0.72	48	I			0.08
	0.36	0 72	50	15/2	ERV-3.1	1.2	1 0
	0.9	0.72	52 54	 70/2	FC-3 5	5	1.2
[GFCI BREAKER] REFRIGERATOR		0.98	56			5	5
	0.36	I	58	70/2	FC-3.6	5	
	0 70	0.36	60				5
	0.72	0.72	62 64	20/1	HLVS-3.1	0.6	0.6
	0.72	0.72	66	20/1 40/2	HP-3.5	2.7	0.0
		0.54	68				2.7
	0.36	ļ	70	40/2	HP-3.6	2.7	
		0.72	72				2.7
	0.18	0.18	74	20/1 20/1	EH-1	1.1	1 1
	0.18	0.10	78	20/1	SPARE	0	1.1
		0.18	80	20/1	SPARE		0
	0.18		82	225/2	PANEL P3B	14	
		0.18	84				13
					TOTAL CONNECTED KVA BY PHASE	62	64
					TOTAL CONNECTED AMPS BY PHASE	520	540
		•				<\/Δ	
	8 /	(125%)			CONTINUOUS 6.4 8	(125	%)
LARGEST MOTOR 5.4 1.	- (	(125%)			HEATING 45 45	(100	%)
OTHER MOTORS 42 42	. (	(100%)			NONCONTINUOUS 0 0	(100	%)
RECEPTACLES 30 20	(5	50%>10	)		KITCHEN EQUIP 0 0	(N/A	()
COMPUTER 0 0	(	(100%)			$\frac{120}{120}$	<u>(</u> N/A	()
					DALANCED FRASE AMIPS 400		

VOLTS 240/120V 2P 3W

G SURFACE	VOLTS	240/120\	/ 2P 3W	MAIN	MLO				
	BUS AN	MPS 225		LUGS STANDARD					
	NEUTR	AI 100%		AIC	42 000				
LOCATED IN BUILDING 3	1120110			,	42,000				
ECCATED IN DOTEDING 5									
			i	1					
	KVA LO	AD CKT	СКТ			KVA	LOAD		
CIRCUIT DESCRIPTION	A	B #	BKR	CIRCUIT DESCRIPTION		A	В		
EXTERIOR LIGHTING	0.27	2	20/1	SPARE		0			
LIGHTING		1.7 4	20/1	SPARE		ļ	0		
LIGHTING	1.9	6	20/1	SPARE		0			
SPARE		8	20/1	SPARE		ļ	0		
SPARE	0	10	20/1	SPARE		0			
SPARE		) 12	20/1	SPARE		ļ	0		
RECEP	0.18	14	20/2	[GFCI BREAKER] OEB3-01		1.9			
[GFCI BREAKER] OEB3-02	2	2.9 16				ļ	1.9		
	2.9	18	20/1	OEB3-03		1			
WH-2	2	2.9 20	20/1	OEB3-03		ļ	1		
	2.9	22	20/1	OEB3-03		1			
[GFCI BREAKER] HT-02		1.2 24	20/1	OEB3-03			1		
[GFCI BREAKER] HT-03, HT-04, HT-05	1.5	26	20/1	SPARE		0			
[GFCI BREAKER] OEB3-04		0.5 28	20/1	SPARE		ļ	0		
SPARE	0	30	20/1	SPARE		0			
SPARE		) 32	20/1	SPARE		ļ	0		
SPARE	0	34	-/1	SPACE		0			
SPACE		) 36	-/1	SPACE			0		
SPACE	0	38	-/1	SPACE		0			
SPACE		) 40	-/1	SPACE			0		
SPACE	0	42	-/1	SPACE		0			
				TOTAL CONNECTED	) KVA BY PHASE	14	13		
				TOTAL CONNECTED /	AMPS BY PHASE	110	110		
L CONN K			ļ	CONN		κ\/Δ			
						(12)	E0/ )		
	4.0 (12	23%) 250/)			7.2	(12:	5%) 00/2)		
OTHER MOTOR A	0.25 (12 <u> </u>	2,5%) 10%)			2.7	(100	0%)		
		06~10)			0		Δ-70) Λ)		
	10 (50*	/0/10) 00%)			0	(N//	~) ^)		
COMPOTER U	0 (10	00701			<u> </u>	(1)//	~)		
					23				

#### 

MECHANICAL EQUIPMENT SCHEDULE															
DESCRIPTION	CALLOUT	VOLTS, PHASE	WIRE CALLOUT	KVA	AMPS	BREAKER	DISCONNECT DESCRIPTION	DESCRIPTION	CALLOUT	VOLTS, PHASE	WIRE CALLOUT	KVA	AMPS	BREAKER	DISCONNECT DESCRIPTION
BC CONTROLLER	BDU-1.1	240/120V 2P 3W	3/4"C.2#12.#12N.#12G	0.17	0.69	15/2	MOTOR RATED SWITCH			240/120\/ 2P 3\\/	3/4"C 2#8 #8N #10C	5.44	22.67		
BC CONTROLLER	BDU-2.1	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.17	0.69	15/2	MOTOR RATED SWITCH		HP-2.5	240/120V 2P 3W	3/4"C 2#8 #8N #10G	5 44	22.07	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
BC CONTROLLER	BDU-2.2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.17	0.69	15/2	MOTOR RATED SWITCH	HEAT PUMP - OUTDOOR UNIT	HP-3.1	240/120V 2P 3W	3/4"C.2#8.#8N.#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
BC CONTROLLER	BDU-3.1	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.17	0.69	15/2	MOTOR RATED SWITCH	HEAT PUMP - OUTDOOR UNIT	HP-3.2	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
BC CONTROLLER	BDU-3.2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.17	0.69	15/2	MOTOR RATED SWITCH	HEAT PUMP - OUTDOOR UNIT	HP-3.3	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
BC CONTROLLER	BDU-3.3	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.17	0.69	15/2	MOTOR RATED SWITCH	HEAT PUMP - OUTDOOR UNIT	HP-3.4	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
BC CONTROLLER	BDU-3.4	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.17	0.69	15/2	MOTOR RATED SWITCH	HEAT PUMP - OUTDOOR UNIT	HP-3.5	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
PLUMBING PUMP	CP-1	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.04	0.37	20/1	RECEPTACLE	HEAT PUMP - OUTDOOR UNIT	HP-3.6	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R
PLUMBING PUMP	CP-1	120V 1P 2W	3/4"C,1#10,#10N,#10G	0.04	0.37	20/1	RECEPTACLE	MAKEUP AIR UNIT	MAU-1	240/120V 2P 3W	2"C,2#3/0,#3/0N,#6G	27.07	112.79	200/2	HARDWIRED. PROVIDED WITH FACTORY
	EF-1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	4.08	17	30/2	MOTOR RATED SWITCH, NEMA 3R								ELECTRICAL REQUIREMENTS WITH
	EF-2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	2.4	10	20/2	MOTOR RATED SWITCH, NEMA 3R	ELECTRIC WATER HEATER		240/120V/2P 3W	3/4"C 2#10 #10N #10G	4.8	20	30/2	
	EH-1	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.55	4.6	20/1			WH-2	240/120V 2P 3W	3/4"C.2#10,#10N,#10G	5.76	20	30/2	MOTOR RATED SWITCH
		1200/1P 200	3/4 C, 1#12,#12N,#12G	0.55	4.0	20/1	HARDWIRED	ELECTRIC WATER HEATER	WH-2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	5.76	24	30/2	MOTOR RATED SWITCH
	EH-1	120V 1P 2W	3/4"C 1#12 #12N #12G	0.55	4.6	20/1	HARDWIRED	ELECTRIC WATER HEATER	WH-2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	5.76	24	30/2	MOTOR RATED SWITCH
	EH-1	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.55	4.6	20/1	HARDWIRED								
ELECTRIC HEATER	EH-1	120V 1P 2W	3/4"C,1#10,#10N,#10G	0.55	4.6	20/1	HARDWIRED								
ENERGY RECOVERY UNIT	ERV-1.1	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.79	3.28	15/2	MOTOR RATED SWITCH		T SCHFI						
ENERGY RECOVERY UNIT	ERV-1.2	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.79	3.28	15/2	MOTOR RATED SWITCH				1			1	
ENERGY RECOVERY UNIT	ERV-1.3	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	4.7	19.6	30/2	NON-FUSED DISCONNECT, 30A, NEMA 3R	DESCRIPTION	CALLOUT	VOLTS, PHASE	WIRE CALLOUT	KVA	AMPS	BREAKER SIZE	DISCONNECT DESCRIPTION
ENERGY RECOVERY UNIT	ERV-2.1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.79	3.28	15/2	MOTOR RATED SWITCH	EV CHAGER	EV	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	7.68	32	40/2	HARDWIRED
ENERGY RECOVERY UNIT	ERV-2.2	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.36	14	20/2	NON-FUSED DISCONNECT, 30A, NEMA 3R	EV CHAGER	EV	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	7.68	32	40/2	HARDWIRED
ENERGY RECOVERY UNIT	ERV-3.1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	2.4	10	15/2	MOTOR RATED SWITCH	EV CAPABLE PROVISION	EVC	240/120V 2P 3W	1"CO	7.68	32	40/2	JUNCTION BOX, WEATHERPROOF
FAN COIL HEAT PUMP - INDOOR UNIT	FC-1.1	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.1	0.4	20/2	MOTOR RATED SWITCH	EV CAPABLE PROVISION	EVC	240/120V 2P 3W	1"CO	7.68	32	40/2	JUNCTION BOX, WEATHERPROOF
FAN COIL HEAT PUMP - INDOOR UNIT	FC-1.2	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.1	0.4	20/2	MOTOR RATED SWITCH	EV READY PROVISION	EVR	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	7.68	32	40/2	JUNCTION BOX, WEATHERPROOF
FAN COIL HEAT PUMP - INDOOR UNIT	FC-1.3	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	EV READY PROVISION	EVR	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	7.68	32	40/2	JUNCTION BOX, WEATHERPROOF
FAN COIL HEAT PUMP - INDOOR UNIT	FC-1.4	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	EV READY PROVISION	EVR	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	7.68	32	40/2	JUNCTION BOX, WEATHERPROOF
	FC-1.5	240/120V 2P 3W	3/4 C,2#12,#12N,#12G	0.1	0.4	20/2		HEAT TRACE	HT-01	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.48	4	20/1	HARDWIRED
	FC-2.1.1	240/120V 2F 3W	3/4"C 2#12 #12N #12G	0.1	0.4	20/2	MOTOR RATED SWITCH		HT-02	120V 1P 2W	3/4"C,1#10,#10N,#10G	1.16	9.67	20/1	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.1.3	240/120V 2P 3W	3/4"C.2#12.#12N.#12G	0.1	0.4	20/2	MOTOR RATED SWITCH		HI-03	120V 1P 2W	3/4"C,1#10,#10N,#10G	0.32	2.67	20/1	
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.1.4	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.1	0.4	20/2	MOTOR RATED SWITCH			1200 1P 200	3/4°C, 1#10,#10N,#10G	0.8	0.07	20/1	
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.2.1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH		OFB1-01	240/120V 2P 3W	3/4"C 2#12 #12N #12G	3.84	16	20/1	
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.2.2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	240V EQUIPMENT POWER PROVISION	OEB1-01	240/120V 2P 3W	3/4"C.2#12.#12N.#12G	3.84	16	20/2	SPECIAL RECEPTACLE
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.2.3	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	240V EQUIPMENT POWER PROVISION	OEB1-01	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	SPECIAL RECEPTACLE
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.2.4	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	VEHICLE LIFT	OEB1-02	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.3	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	VEHICLE LIFT	OEB1-02	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.4	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	VEHICLE LIFT	OEB1-02	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-2.5	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	VEHICLE LIFT	OEB1-02	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.1.1	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	TIRE MACHINE	OEB1-03	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	SPECIAL RECEPTACLE
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.1.2	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	0.1	0.4	20/2	MOTOR RATED SWITCH	OVERHEAD DOOR	OEB1-03	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
	FC-3.1.3	240/120V 2P 3W	3/4°C,2#12,#12N,#12G	0.1	0.4	20/2		OVERHEAD DOOR	OEB1-03	120V 1P 2W	3/4"C,1#10,#10N,#10G	1	8.33	20/1	TOGGLE SWITCH.
	FC-3.2.1	240/120V 2F 3W	3/4°C,2#12,#12N,#12G	0.1	0.4	20/2		OVERHEAD DOOR	OEB1-03	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.2.2	240/120V 2P 3W	3/4"C.2#10.#10N.#10G	0.1	0.4	20/2	MOTOR RATED SWITCH		OEB1-03	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.2.3	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	AIR COMPRESSOR	UEB I-04	240/1200 2P 300	T C,2#4,#4N,#8G	9.0	40	10/2	ELECTRICAL REQUIREMENTS WITH OWNER
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.3.2	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH		0500.04		2/4/0 4#42 #420 #420	4.5	40.5	00/4	
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.3.1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH		0EB2-01	240\/ 2P 2\/	3/4"C 2#12 #12C	4.5	12.0	20/1	
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.3.3	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	RV POWER	OEB2-02	240V 2P 2W	3/4"C.2#6.#10G	9.6	40	50/2	SPECIAL RECEPTACLE
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.4.1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	AUTOPSY SINK CONNECTION	OEB2-04	240V 2P 2W	3/4"C,2#12,#12G	0.1	0.42	20/2	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.4.2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	0.1	0.4	20/2	MOTOR RATED SWITCH	COOLER CONDENSING UNIT	OEB2-05	240V 2P 2W	3/4"C,2#12,#12G	2.88	12	15/2	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.5	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	COOLER EVAP COIL	OEB2-05.2	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.3	2.52	20/1	HARDWIRED
FAN COIL HEAT PUMP - INDOOR UNIT	FC-3.6	240/120V 2P 3W	1"C,2#4,#4N,#8G	10.1	42.07	70/2	MOTOR RATED SWITCH	COOLER LIGHTING	OEB2-05.3	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.2	1.67	20/1	HARDWIRED
HEAT PUMP - OUTDOOR UNIT	HLVS-1.1	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.6	5	20/1	MOTOR RATED SWITCH	240V EQUIPMENT POWER PROVISION	OEB2-06	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	SPECIAL RECEPTACLE
	HLVS-1.2	120V 1P 2W	3/4"C,1#12,#12N,#12G	0.6	5	20/1	MOTOR RATED SWITCH	OVERHEAD DOOR	OEB2-07	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
		1200 1P 200	3/4 C, 1#10,#10N,#10G	0.6	5	20/1		OVERHEAD DOOR	OEB2-07	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
	HLVS-2.2	120V 1F 2W	3/4°C, 1#10,#10N,#10G	0.19	16	20/1	MOTOR RATED SWITCH	OVERHEAD DOOR	OEB2-07	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
HEAT PUMP - OUTDOOR UNIT	HLVS-2.4	120V 1P 2W	3/4"C.1#10.#10N.#10G	0.19	1.6	20/1	MOTOR RATED SWITCH	OVERHEAD DOOR	OEB2-07	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
HEAT PUMP - OUTDOOR UNIT	HLVS-3.1	120V 1P 2W	3/4"C,1#10,#10N.#10G	0.6	5	20/1	MOTOR RATED SWITCH	240V EQUIPMENT POWER PROVISION	OEB3-01	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	3.84	16	20/2	
HEAT PUMP - OUTDOOR UNIT	HLVS-3.2	120V 1P 2W	3/4"C,1#10,#10N,#10G	0.6	5	20/1	MOTOR RATED SWITCH		UEB3-02	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	5./6	24	30/2	
HEAT PUMP - OUTDOOR UNIT	HP-1.1	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R				3/4"C 1#12,#12N,#12G	1	0.33	20/1	
HEAT PUMP - OUTDOOR UNIT	HP-1.2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	3.16	13.17	30/2	NON-FUSED DISCONNECT, 30A, NEMA 3R		0EB3-03	120V 1F 2W	3/4"C. 1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH
HEAT PUMP - OUTDOOR UNIT	HP-1.3	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R	OVERHEAD DOOR	OEB3-03	120V 1P 2W	3/4"C,1#10.#10N.#10G	1	8.33	20/1	TOGGLE SWITCH.
HEAT PUMP - OUTDOOR UNIT	HP-1.4	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R	OVERHEAD DOOR	OEB4-01	120V 1P 2W	3/4"C,1#12,#12N,#12G	1	8.33	20/1	TOGGLE SWITCH.
HEAT PUMP - OUTDOOR UNIT	HP-1.5	240/120V 2P 3W	3/4"C,2#12,#12N,#12G	4.56	19	30/2	NON-FUSED DISCONNECT, 30A, NEMA 3R	MOTORIZED ENTRY GATE	OES-01	120V 1P 2W	3/4"C,1#10,#10N,#10G	1	8.33	20/1	NON-FUSED DISCONNECT. COORDINATE ALL
HEAT PUMP - OUTDOOR UNIT	HP-2.1	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R								ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO CONSTRUCTION.
HEAT PUMP - OUTDOOR UNIT	HP-2.2	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R	SEPTIC PUMP	OES-02	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	2.04	8.5	20/2	NON-FUSED DISCONNECT, NEMA 3R
HEAT PUMP - OUTDOOR UNIT	HP-2.3	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R								1

DESCRIPTION	CALLOUT	VOLTS, PHASE	WIRE CALLOUT	KVA	AMPS	BREAKER SIZE	DISCONNECT DESCRIPTION			
HEAT PUMP - OUTDOOR UNIT	HP-2.4	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-2.5	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-3.1	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-3.2	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-3.3	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-3.4	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-3.5	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
HEAT PUMP - OUTDOOR UNIT	HP-3.6	240/120V 2P 3W	3/4"C,2#8,#8N,#10G	5.44	22.67	40/2	NON-FUSED DISCONNECT, 30A, NEMA 3R			
MAKEUP AIR UNIT	MAU-1	240/120V 2P 3W	2"C,2#3/0,#3/0N,#6G	27.07	112.79	200/2	HARDWIRED. PROVIDED WITH FACTORY DISCONNECT. COORDINATE FINAL UNIT ELECTRICAL REQUIREMENTS WITH MECHANICAL.			
ELECTRIC WATER HEATER	WH-1	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	4.8	20	30/2	MOTOR RATED SWITCH			
ELECTRIC WATER HEATER	WH-2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	5.76	24	30/2	MOTOR RATED SWITCH			
ELECTRIC WATER HEATER	WH-2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	5.76	24	30/2	MOTOR RATED SWITCH			
ELECTRIC WATER HEATER	WH-2	240/120V 2P 3W	3/4"C,2#10,#10N,#10G	5.76	24	30/2	MOTOR RATED SWITCH			

NOTE: COORDINATE WITH MANUFACTURER AND VERIFY ALL ELECTRICAL REQUIREMENTS OF ALL OWNER EQUIPMENT PRIOR TO CONSTRUCTION.

![](_page_104_Picture_6.jpeg)

![](_page_104_Picture_7.jpeg)

![](_page_104_Picture_8.jpeg)

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 Job:
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 Date:
 1/6/2025

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LUMINAIRE SCHEDULE														
ТҮРЕ		DESCRIPTION	LUMENS	COLOR TEMP	DRIVER	WATTS	VOLTS	MFGR	MOUNTING HEIGHT	CEILING TYPE	FINISH	NOTES		
	L1	CPXIP 2X4 7200LM 80 40K ASWM MVOLT	7200	40K	Integral	57	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x4		
	L1E	CPXIP 2X4 7200LM 80 40K ASWM MVOLT	7200	40K	Integral	57	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x4 with emergency battery backup		
	L2	CPXIP 2X4 3000LM 80 40K ASWM MVOLT	3000	40K	Integral	25	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x4		
	L3	CPX 2X2 3200LM 80 40K SWL MVOLT	3200	40K	Integral	30	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x2		
	L3E	CPX 2X2 3200LM 80 40K SWL MVOLT	3200	40K	Integral	30	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x2 with emergency battery backup		
	L4	CPX 2X2 2000LM 80 40K SWL MVOLT	2000	40K	Integral	16	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x2		
	L4E	CPX 2X2 2000LM 80 40K SWL MVOLT	2000	40K	Integral	16	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x2 with emergency battery backup		
	L5	CPX 2X4 3000LM 80 40K SWL MVOLT	4000	40K	Integral	25	MVOLT	Acuity	CEILING	HARD LID	TBD	Suface mount 2x4		
	L6	CSS L24 ALO15 (1500) UVOLT SWW3 (40) 80CRI	1500	40К	Integral	10	MVOLT	Acuity	CEILING	HARD LID	TBD	Surface mount linear strip		
	L7	FMVCSLS 24IN MVOLT 30K35K40K	1740	40K	Integral	18	MVOLT	Acuity	WALL	HARD LID	TBD	24" Vanity		
	L8	IVO4CYL SC D 20LM 40K 80CRI MD P AR LSS	2000	40K	Integral	22	MVOLT	Acuity	CEILING	HARD LID	TBD	I" Surface mount cylinder		
	L8E	IVO4CYL SC D 20LM 40K 80CRI MD P AR LSS	2000	40К	Integral	22	MVOLT	Acuity	CEILING	HARD LID	TBD	" Surface mount cylinder with emergency battery backup		
	٤٩	FEM L48 10000LM LPPFL WD 80CRI 40K	12000	40K	Integral	62	MVOLT	Acuity	CEILING	HARD LID	TBD	'Surface mount Vaportite		
	L9E	FEM L48 10000LM LPPFL WD 80CRI 40K	12000	40K	Integral	62	MVOLT	Acuity	CEILING	HARD LID	TBD	Surface mount Vaportite with emergency battery backup		
	L11	CPHB 12000LM SEF GCL WD 40K 80CRI	12000	40K	Integral	88	MVOLT	Acuity	16.5' AFF	HARD LID	TBD	Suspended highbay		
	L11E	CPHB 12000LM SEF GCL WD 40K 80CRI	12000	40K	Integral	88	MVOLT	Acuity	16.5' AFF	HARD LID	TBD	Suspended highbay with emergency battery backup		
0	L12	XIB L24 18000LM AFMD? 40K 80CRI	24000	40К	Integral	113	MVOLT	Acuity	16.5' AFF	HARD LID	TBD	Suspended wet-rated highbay		
0	L12E	XIB L24 18000LM AFMD? 40K 80CRI	24000	40K	Integral	113	MVOLT	Acuity	16.5' AFF	HARD LID	TBD	Suspended wet-rated highbay with emergency battery backup		
	L13	CSS L48 ALO3 (4000) MVOLT SWW3 (40) 80CRI	4000	40K	Integral	35	MVOLT	Acuity	CEILING	HARD LID	TBD	4' Surface mounted strip light		
	L13E	CSS L48 ALO3 (4000) MVOLT SWW3 (40) 80CRI	4000	40K	Integral	35	MVOLT	Acuity	CEILING	HARD LID	TBD	<sup>,</sup> Surface mounted strip light with emergency battery backup		
9	FL1	DSXF1 LED P2 40K WFL	24000	40K	Integral	42	MVOLT	Acuity	TBD	HARD LID	TBD	lood light		
1	S1	RSX2 LED P4 40K R5	25669	40K	Integral	187	MVOLT	Acuity	25' W/ 3' BASE		TBD	Area light on 25' pole w/ 3' base		
	W1E	WDGE1 LED P2 40K 80CRI VW	1982	40К	Integral	15	MVOLT	Acuity	8' AFF		TBD	Wall pack with emergency battery backup		
6	W2E	WDGE2 LED P2 40K 80CRI TFTM	2030	40К	Integral	19	MVOLT	Acuity	12' AFF		TBD	Wall pack with emergency battery backup		
	W3	WDGE3 LED P4 70CRI RFT 40K	12277	40K	Integral	88	MVOLT	Acuity	16' AFF		TBD	Wall Pack		
EXIT	EX	TL2 EM G U BA M*	-	-	Integral	3	120/277	Isolite	Varies	Varies	Brushed Aluminum	Exit- stems to be provided where necessary		
1. ALL FIXTU	ALL FIXTURES WITH AN "E" SUFFIX, SHALL BE PROVIDED WITH AN EMERGENCY DRIVER. PROVIDE UNSWITCHED HOT LEG TO EACH "E" FIXTURE													

2. ALL FINISHES, MOUNTING HEIGHTS, COLOR TEMPS TO BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO ORDERING. CONFIRM ALL MOUNTING TYPES BEFORE ORDERING

P4	
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MOUNTING SURFACE			VOL	TS 240/	120\	/ 2P 3W	MAIN 125	MAIN 125				
			BUS	AMPS	125		LUGS STANDARD					
				NEU	τραι 1	00%		ATC 42.000				
					NEO		00 /0					
			DOILDING 4									
СКТ	СКТ				KVA	LOAD	СКТ	СКТ		KVA I	LOAD	
#	BKR	CIRCUIT DE	SCRIPTION		A	В	#	BKR	CIRCUIT DESCRIPTION	A	В	
1	20/1	LIGHTING			0.18		2	20/1	RECEP	0.18		
3	20/1	LIGHTING				0.25	4	20/1	RECEP		0.18	
5	20/1	SPARE			0		6	20/1	RECEP	0.18		
7	20/1	SPARE				0	8	20/1	RECEP		0.18	
9	20/1	SPARE			0		10	20/1	DROP CORD	1		
	20/1	SPARE				0		20/1		1		
15	-/1	SPARE				0	14	20/1			1	
17	/ <u>/</u>	SPACE			0	Ŭ	18	20/1	RECEP	0.36	, ±	
19	-/1	SPACE			ľ	0	20	20/1	OFB4-01	0.00	1	
21	-/1	SPACE			0	-	22	20/1	SPARE	0	-	
23	-/1	SPACE				0	24	20/1	SPARE		0	
25	-/1	SPACE			0		26	20/1	SPARE	0		
27	-/1	SPACE			0	28	20/1	SPARE		0		
29	-/1	SPACE			0		30	20/1	SPARE	0		
									TOTAL CONNECTED KVA BY PHASE	2.9	3.6	
									TOTAL CONNECTED AMPS BY PHASE	24	30	
CONN. KVA CA						A	-		CONN. KVA CALC	. KVA	-	
LIGHTING 0.43 0.5				).54	.54 (125%)			CONTINUOUS 0 0	(125	5%)		
LARGEST MOTOR 1 0.2			).25	(125%)			HEATING 0 0	(100	, )%)			
OTHER MOTORS 1 1			L	(100%)			NONCONTINUOUS 0 0	(100	)%)			
RECEPTACLES 5.1 5.1			5.1 (!	50%>10	)		KITCHEN EQUIP 0 0	(N/A	4)			
COMPUTER 0 0			)	(100%)			NONCOIN/DIVERSE 0 0	<u>(N</u> /A	4)			
								TOTAL KVA 6.5 6.9				
									BALANCED PHASE AMPS 29			

![](_page_105_Picture_6.jpeg)

ON CAMPUS WENATCHEE, WASHINGTON 98801

IL J. **OLDS ST** 425 OHME GARDEN ROAD

V

![](_page_105_Picture_11.jpeg)

 BID SET:
 1/6/2025

 Job:
 2344
 Date:
 1/6/2025

 .DWG ID

**E6.4** 

![](_page_105_Picture_20.jpeg)