# **ROOFING REPLACEMENT BEAVERTON SCHOOL DISTRICT** FINDLEY ELEMENTARY SCHOOL

4155 NW SALTZMAN RD., PORTLAND, OR 97229







#### **PROJECT DESCRIPTION**

ARCHITECTURAL SERVICES ASSOCIATED WITH GENERAL BUILDING CONSTRUCTION PROJECTS; RENOVATIONS AND REPAIRS AS ASSIGNED BY THE BEAVERTON SCHOOL DISTRICT IN RESPONSE TO THE VOTER APPROVED BOND MEASURE.

THE PROJECT CONSISTS OF THE ALTERATION OF A PORTION OF AN EXISTING BEAVERTON SCHOOL DISTRICT FINDLEY ELEMENTARY SCHOOL. THE WORK WILL INCLUDE THE FOLLOWING CLEAN AND PREPARE THE EXISTING LOW-SLOPE SINGLE PLY MEMBRANE ROOF PER ROOFING ASSESSMENT RECOMMENDATIONS FOR INSTALLATION OF NEW RESTORATION COATING SYSTEM. TO INCLUDE CLEANING OF ROOF AND OVERFLOW DRAIN BODIES, AS WELL AS CLEANING AND RESETTING OF ROOF DRAIN DOMES ASSEMBLIES. REMOVE AND REPLACE T EXISTING STEEP-SLOPE ASPHALT COMPOSITION SHINGLE ROOF PER ROOFING ASSESSMENT RECOMMENDATIONS WITH NEW ASPHALT COMPOSITION SHINGLE ROOF SYSTEM. WORK INCLUDES NEW ASSOCIATED FLASHINGS, CONDUCTORS, GUTTERS, DOWNSPOUTS, SPLASH BLOCKS, FASCIA'S, COPINGS, CURBS AND COUNTER-FLASHING FOR MECHANICAL EQUIPMENT ROOF TOP SUPPORTS (CONDUIT, PIPES), NEW ROOF ACCESS LADDERS, ROOF HATCH GUARDRAILS AND CONTRACTOR DESIGNED FALL RESTRAINT SYSTEM IDENTIFIED ON PLANS AT STEEP-SLOPE ASPHALT COMPOSITION SHINGLE ROOF. ADDITIONALLY, THERE WILL BE NEW WALL AND FASCIA PANEL CLADDING.

#### **PROJECT INFORMATION**

ADDRESS:	4155 NW SALTZMAN RD. PORTLAND, OR 97229
PROPERTY ID:	W41228
STATE ID:	1N121DC - 05400
COUNTY:	WASHINGTON
JURISDICTION:	WASHINGTON COUNTY
FIRE DISTRICT:	TUALATIN VALLEY FIRE & RESCUE
DESCRIPTION OF USE:	ELEMENTARY SCHOOL
OCCUPANCY CLASSIFICATION:	EDUCATION (E)
AREA (APPROX.):	PROPERTY: 9.42 ACRES (PORTLAND MAPS) BUILDING: MAIN LEVEL - 31,014 S.F. LOWER LEVEL - 46,461 S.F.
YEAR BUILT:	1997
CONSTRUCTION TYPES:	VA & VB
ROOF COVERING CLASSIFICATION:	B(VA) & C(VB)

#### **PROJECT TEAM**

OWNER:	<b>BEAVERTON SCHOOL DISTRICT 48</b>
	16550 SW MERLO ROAD
	BEAVERTON, OR 97003
	PHONE: (503) 356-4500
PROJECT MANAGER:	BEAVERTON SCHOOL DISTRICT 48
	FACILITIES DEVELOPMENT
	16550 SW MERLO ROAD
	BEAVERTON, OR 97003
	PHONE: (503) 356-4500
	CONTACT: CHRISTOPHER HANSEN
ARCHITECT:	AXIS DESIGN GROUP
	ARCHITECTURE & ENGINEERING, INC.
	11104 S.E. STARK STREET
	PORTLAND, OR 97216
	PHONE: (503) 284-0988
	CONTACT: STEVEN EGGLESTON
ROOFING CONSULTANT:	CERTA BUILDING SOLUTIONS, INC.
	1510 SE 44TH AVE, STE 102
	PORTLAND, OR 97215
	PHONE: (206) 941-6953
	CONTACT: DAN RUNDLE
STRUCTURAL ENGINEER:	KPFF CONSULTING ENGINEERS
	111 SW FIFTH AVE, STE 2500
	PORTLAND, OR 97204
	PHONE: (503)227-3251
	CONTACT: JERRY ABDIE

#### APPLICABLE CODES

WORK TO COMPLY WITH CURRENT FEDERAL, STATE, COUNTY, CITY BUILDING & ADA CODES & REGULATIONS.

#### OREGON BUILDING CODES:

- 1. 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
- 2. 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
- 2019 OREGON FIRE CODE (OFC) 4. 2019 OREGON MECHANICAL SPECIALTY CODE (OMSC)
- 5. 2021 OREGON PLUMBING SPECIALTY CODE (OPSC)
- 6. 2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)

#### SEPARATE PERMITS (DESIGN BUILD) ITEMS

FOR SEPARATE PERMITS PROCEDURE, SEE NO. 20 UNDER GENERAL NOTES ON SHEET G-001.

1. ROOFTOP FALL PROTECTION SYSTEM: DESIGN OF FALL PROTECTION SYSTEM, INCLUDING ANALYSIS OF ALL COMPONENTS INCLUDING BUT NOT LIMITED TO BRACKETS, SUPPORTS AND ANCHORS.

		ISSUED	LC
SHEET	INDEX	100% SD	
SHEET NO.	SHEET TITLE		
GENERAL			
G-000	SHEET INDEX, PROJECT DESCRIPTION AND PROJECT INFO.	х	
G-001	GENERAL NOTES		
STRUCTU	RAL GENERAL STRUCTURAL NOTES		
S-161	ROOF PLAN		-
 S-501	DETAILS		
ARCHITEC	CTURAL ABBREVIATIONS, SYMBOLS & MAT HATHES		<u> </u>
A-161	ROOF PLAN	x	
A-161.1	ROOF PLAN - ASSEMBLY AREAS		
A-221	EXTERIOR ELEVATIONS	x	
A-321	PARTIAL WALL SECTIONS		
A-511	GENERAL ROOF ASSEMBLIES AND TYPICAL ROOF DETAILS		
A-512	ROOF ASSEMBLIES AND DETAILS		
A-513	ROOF ASSEMBLIES AND DETAILS		
A-515	ROOF ASSEMBLIES AND DETAILS		
LEGEND:			

x = ISSUED AS PART OF SET

 $\diamond =$ NOT PART OF ISSUED SET \* = ISSUED FOR INFORMATION ONLY









REVISIONS			
No.	Description	Date	

DRAWN BY: SEE CHECKED BY: SEE JOB NO: 22-002 BSD FIES DATE: 07/08/2022

ISSUED FOR: BID | PERMIT SHEET TITLE

SHEET INDEX,





#### **GENERAL NOTES**

1. GENERAL

- A. DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, DIMENSIONS, AND MAJOR ELEMENTS OF STRUCTURAL SYSTEMS. AS SUCH, THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- B. IN PERFORMING PROFESSIONAL SERVICES FOR THIS PROJECT, AXIS DESIGN GROUP ARCHITECTURE AND ENGINEERING INC. NEITHER ISSUES, EXPRESSES, OR IMPLIES ANY WARRANTIES OR CERTIFICATIONS EXCEPT AS REQUIRED FOR BY GOVERNING JURISDICTIONS.
- C. ALL WORK TO CONFORM WITH CONTRACT DOCUMENTS. NO CHANGES SHALL BE MADE WITHOUT REVIEW BY THE ARCHITECT. WHEN MORE INFORMATION OR AN INTERPRETATION OF THE CONTRACT DOCUMENTS IS NEEDED, THE CONTRACTOR WILL REFER THE MATTER TO THE ARCHITECT WHO WILL FURNISH INFORMATION OR INTERPRETATION IN THE FORM OF SUPPLEMENTAL INFORMATION OR OTHER WRITTEN FORM OR DRAWING.
- D. THE CONTRACTOR SHALL COORDINATE ALL TRADES RELATED TO HIS OR HER WORK. E. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON LIMITED EXISTING BUILDING DOCUMENTS AND LIMITED FIELD MEASUREMENTS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD.
- F. SYSTEMS AND CONDITIONS HIDDEN FROM VIEW ARE BASED ON OWNER PROVIDED AS BUILT DOCUMENTS, HAVE NOT BEEN VERIFIED BY THE ARCHITECT, AND ARE PROVIDED FOR REFERENCE PURPOSES ONLY. ALL SYSTEMS AND CONDITIONS TO BE VERIFIED BY THE GENERAL CONTRACTOR.
- G. ALL WORK SHALL BE PREFORMED WITH PROCEDURES SET FORTH BY PRODUCT MANUFACTURERS STANDARD SPECIFICATIONS OR STANDARD PRACTICE PROCEDURES PUBLISHED BY TRADE ASSOCIATIONS. WHEN SEPARATELY BOUND SPECIFICATIONS ACCOMPANY THESE DRAWINGS THEY SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS.
- H. LARGE SCALE PLANS OR DETAILS TAKE PRECEDENCE OVER SMALL SCALE PLANS OR DETAILS. I. IF AN ITEM IS INDICATED ON THE DRAWINGS AS (NIC) IT IS "NOT IN THE CONTRACT". SUBSEQUENT DRAWINGS AND SPECIFICATIONS WILL BE SUBMITTED BY OTHERS FOR SEPARATE APPROVAL AND PERMITS.
- J. ANY DETAIL THAT APPLIES TO A SPECIFIC SITUATION SHALL APPLY TO ALL SIMILAR SITUATIONS UNLESS OTHERWISE NOTED.
- K. "TYP" OR "TYPICAL" AS USED IN THESE DOCUMENTS, SHALL MEAN THAT THE CONDITION IS THE SAME THROUGHOUT, UNLESS OTHERWISE NOTED.
- L. ANY SUBCONTRACTOR DESIGNED ITEMS TO BE SUBMITTED TO AND APPROVED BY THE OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
- M. SPOT ELEVATIONS ARE FROM FLOOR TO FINISH CEILING AND ARE ROUNDED TO NEAREST INCH (TYP).
- N. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND SHALL COORDINATE ALL CONSTRUCTION EFFORTS WITH OWNER'S REQUIREMENTS.
- O. CONTRACTOR SHALL PROVIDE FOR DUST CONTROL THROUGHOUT. PROVIDE TEMPORARY MEASURES TO VENTILATE ARES DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION TO ERADICATE BUILDUP OF FUMES FROM FINISH MATERIALS AND CONSTRUCTION ACTIVITIES. CONTRACTOR TO MAINTAIN SIX (6) AIR EXCHANGES PER HOUR UNLESS MORE STRINGENT OSHA, STATE OR LOCAL STANDARDS ARE TO BE ADHERED TO.
- P. CONTRACTOR TO NOTIFY THE OWNER UPON DISCOVERY OF ASBESTOS OR ANY OTHER HAZARDOUS MATERIAL DURING THE COURSE OF WORK. ALL WORK SHALL STOP IMMEDIATELY IN AFFECTED AREA UNTIL THE CONDITION IS CORRECTED.
- O. PROVIDE BLOCKING SECURED TO WALL FRAMING FOR ALL CASEWORK, RESTROOM ACCESSORIES, HANDRAIL BRACKETS AND ANY OTHER WALL-MOUNTED ACCESSORIES REQUIRING SUPPORT.

2. CODES

- A. ALL WORK TO COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE CODES AS ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION FOR THIS PROJECT ARE AS FOLLOWS: 1. 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
- 2. 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC) 3. 2019 OREGON FIRE CODE (OFC)
- 4. ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 5. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- 6. 2019 OREGON MECHANICAL SPECIALTY CODE (OMSC) 7. 2021 OREGON PLUMBING SPECIALTY CODE (OPSC)
- 8. 2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)

3. PERMITS

- A. OTHER THAN THE BUILDING PERMIT, THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, LICENSES, AND INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK.
- 4. COORDINATION AND VERIFICATION
- A. ALL FIELD DIMENSIONS TAKE PRECEDENCE OVER DIMENSIONS ON DRAWINGS.
- B. THE DRAWINGS ARE DIVIDED INTO SEPARATE SHEETS FOR GENERAL CONVENIENCE ONLY. SHEET DESIGNATION OR NUMBERS ARE TO BE CONSIDERED SD LIMITATIONS OF AREAS OF WORK, RESPONSIBILITY OR TRADES. COORDINATE THE WORK SHOWN IN THE DRAWINGS AND IN THE PROJECT MANUAL IN ORDER TO COMPLETE THE PROJECT AS DESIGNED.
- C. LOCATIONS AND SIZES OF EQUIPMENT ARE BASED ON AVAILABLE INFORMATION. PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF ALL EQUIPMENT, PADS, BASES, MOUNTINGS, ATTACHMENTS AND CONDUIT RELATING TO THE WORK.
- D. PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF OPENINGS IN SLABS AND WALLS NECESSARY FOR THE INSTALLATION OF THE WORK.
- E. POSITION ALL VALVES CONTROLS AND TERMINATIONS TO BE POSITIONED FOR SAFE, DIRECT AND EASY ACCESS. ALL PIPING AND DUCTWORK TO BE INSTALLED FOR CONVENIENT FUTURE ADDITIONS AND MODIFICATIONS. ITEMS TO BE LABELED PER OWNER REQUIREMENTS.
- F. QUANTITIES LISTED ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO VERIFY QUANTITIES AND INCLUDE ACCURATE QUANTITIES AS PART OF THE WORK.
- G. SPECIFIC NOTES OR KEYNOTES ON DETAILS APPLY TO SIMILAR CONDITIONS ON OTHER DETAILS ON ALL DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- H. CONTRACTOR TO REVIEW ADDITIONAL GENERAL REQUIREMENTS IN SPECIFICATION. I. CONTRACTOR TO COORDINATE SCHEDULING OF ALL TENANT RELATED WORK OCCURRING IN
- ADJACENT SUITES WITH OWNERS REPRESENTATIVE, SECURITY OFFICE, AND ADJACENT TENANTS WELL IN ADVANCE OF ACTUAL WORK. J. CONTRACTOR TO COORDINATE WITH THE TENANT AND/OR VENDOR WHEN INSTALLING ITEMS
- SUPPLIED BY THAN THE CONTRACTOR.
- K. CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER AS REOUIRED TO IMPLEMENT SCOPE OF WORK, INCLUDING ANY OWNER PROVIDED CONTRACTORS.
- 5. UTILITIES AND DEMOLITION
- A. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITY LINES INCLUDING ELECTRICAL, SEWER, WATER, GAS, TELEPHONE, ETC. IN ADDITION THE CONTRACTOR SHALL CAUTION ALL SUBCONTRACTORS THAT THE SITE CONTAINS UNDERGROUND UTILITY LINES. THE DRAWINGS SHOW DIAGRAMMATICALLY THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES WHERE INFORMATION IS AVAILABLE, BUT THE DRAWINGS ARE NOT EXACT AS TO THE QUANTITY, EXTENT OR LOCATION.
- B. THE CONTRACTOR IS REQUIRED TO EXERCISE EXTREME CAUTION DURING ALL PHASES OF THE WORK TO LOCATE, IDENTIFY AND PROTECT EXISTING UTILITIES TO BE MODIFIED OR TO REMAIN. THE CONTRACTOR SHALL RECORD LOCATION OF, DISCONNECT, AND CAP AS NECESSARY, AND REPAIR DAMAGE TO EXISTING UTILITIES WHICH ARE ENCOUNTERED AS A RESULT OF WORK UNDER THIS CONTRACT.
- C. IF REQUIRED BY THE PROJECT, THE CONTRACTOR IS REQUIRED TO PROVIDE OUTSIDE GAS SHUT-OFF VALVE CONSPICUOUSLY MARKED PER OWNER REQUIREMENTS.
- D. CONTRACTOR TO COORDINATE ALL NEW SERVICE REQUIREMENTS WITH LOCAL UTILITY AGENCIES AND OWNER.
- E. THE CONTRACTOR TO ARRANGE AND PAY FOR TEMPORARY POWER, UTILITIES EXCEPT AS PREARRANGED WITH OWNER.
- F. IN PERFORMING PROFESSIONAL SERVICES FOR THIS PROJECT, CONTRACTOR SHALL PROVIDE SHORING, BRACING, SUPPORT, AND PROTECTION AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF THE PROJECT, ADJACENT PROPERTIES, AND PUBLIC SAFETY.

#### 6. GENERAL DEMOLITION

- A. DEMOLISH AS REQUIRED TO ACCOMPLISH WORK INDICATED IN THESE DOCUMENTS. ALL REQUIRED DEMOLITION WORK SHALL BE INCLUDED IN THE BASE BID PACKAGE SUBMITTED BY THE CONTRACTOR.
- B. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND/OR WORKMEN ON THE SITE TO PREVENT ACCIDENTS OR INJURY TO ANY PERSON ON, ABOUT OR ADJACENT TO THE PREMISES. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, CODES AND REGULATIONS PERTAINING TO SAFETY AND THE PREVENTION OF ACCIDENTS.
- C. THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT, INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS WHICH ARE TO RFMAIN.
- D. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON FIELD MEASUREMENTS. ACTUAL CONDITIONS MAY VARY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- E. VERIFY LIMITS OF DEMOLITION REQUIRED TO COMPLETE WORK PRIOR TO COMMENCEMENT. GRAPHIC REPRESENTATION OF AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
- F. IN THE EVENT OF DAMAGE TO EXISTING CONSTRUCTION, CONTRACTOR SHALL REPAIR AND RESTORE THE DAMAGE TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. G. ONLY MAJOR ITEMS OF DEMOLITION ARE SHOWN. REMOVE MISCELLANEOUS MINOR ITEMS AS
- H. THE DEMOLITION NOTES IN THE DRAWINGS REQUIRE THE REMOVAL OF A BUILDING ELEMENT OR SYSTEM OR A COMPLETE COMPONENT COMPRISED OF MULTIPLE ELEMENTS. THE CONTRACTOR SHALL DISASSEMBLE AND REMOVE FORM THE SITE EACH ITEM IN ITS ENTIRETY AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE NEW WORK TO FOLLOW.

APPROPRIATE FOR PROPER COMPLETION OF THE WORK.

- I. REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO BE DEMOLISHED.
- J. REMOVE ALL MISCELLANEOUS PIPE AND DUCT SUPPORTS, PARTITION TRACKS AND CLIPS NO LONGER FUNCTIONAL IN EXISTING CEILING CAVITIES OF ROOMS TO BE DEMOLISHED.
- K. CUT AND PATCH WALL, CEILING AND FLOOR ASSEMBLIES AND REPAIR FINISHES AS NECESSARY AT MECH., PLUM., AND ELECT. DEMOLITION LOCATIONS; SEE MECH., PLUMB., AND ELECT. DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- L. THE CONTRACTOR SHALL PATCH AND REPAIR ELEMENTS WHERE ITEMS WERE REMOVED AND IN AREAS DAMAGED DURING DEMOLITION. M. THE CONTRACTOR SHALL CLEAN, PLUG, PATCH AND REPAIR ALL MATERIALS AND SURFACES
- AND PREPARE THEM FOR NEW WORK. N. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR LOCATING, IDENTIFYING, OR SPECIFYING
- MEANS OF REMOVAL OF ANY HAZARDOUS MATERIALS. HAZARDOUS MATERIAL TESTING BY OWNER CONTRACTED CONSULTANT.

#### 7. DISCREPANCIES

- A. VERIFY ALL DIMENSIONS, ELEVATIONS, AND ALL EXISTING CONDITIONS AT THE SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT AND THE OWNER.
- B. IF ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS ARE RECOGNIZED BY THE CONTRACTOR OR ANY MEMBER OF HIS ORGANIZATION, THE CONTRACTOR IS REQUIRED TO NOTIFY THE ARCHITECT IN WRITING OF SUCH ERROR, INCONSISTENCY OR OMISSION BEFORE PROCEEDING WITH THE WORK.
- C. SHOULD THE SPECIFICATIONS FAIL TO DESCRIBE THE MATERIAL OR KIND OF GOODS TO BE USED, SUBMIT AN INQUIRY OF THE ARCHITECT FOR CLARIFICATION.
- D. ALL WORK TO CONFORM TO THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS PERMITTED WITHOUT REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER.
- E. IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND THE PROJECT MANUAL, THE CONTRACTOR IS TO PRICE THE MORE EXPENSIVE, OR MORE ELABORATE METHOD, MATERIALS, AND EQUIPMENT DESCRIBED OR SHOWN, SHOULD THE OWNER, AT THE OWNER'S DISCRETION, APPROVE TO UTILIZE THE LESS EXPENSIVE, OR LESS ELABORATE METHOD, MATERIALS, OR EQUIPMENT, AN APPROPRIATE CREDIT NEGOTIATED BETWEEN THE CONTRACTOR AND OWNER SHALL BE DUE TO THE OWNER.
- F. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING TO THE ARCHITECT ANY DEFICIENCIES PRIOR TO BIDDING. THE CONTRACTOR SHALL REQUIRE EACH SUBCONTRACTOR TO LIKEWISE STUDY THE DOCUMENTS AND IMMEDIATELY REPORT ANY DEFICIENCIES.

#### 8. MODIFICATIONS

A. MODIFICATIONS TO DETAILS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND WILL BE MADE PART OF THE WORK.

#### 9. ACCESS PANELS

A. AT ALL WALL AND CEILING LOCATIONS PROVIDE ACCESS PANELS FOR ELECTRICAL, PLUMBING AND AIR CONDITIONING CONTROLS, VALVES, DAMPERS, COUNTER FIRE SHUTTERS OR OTHER DEVICESAS REQUIRED BY THE WORK AND APPLICABLE EVEN IF ACCESS PANEL IS NOT SHOWN ON CONTRACT DOCUMENTS. AT NON-ACCESSIBLE CEILINGS, ACCESS PANELS SHALL BE 24"x24" FLUSH MOUNTED AND FIT WITHIN THE CEILING PATTERN. SUBMIT SHOP DRAWINGS INDICATING THE EXACT LOCATIONS OF ALL ACCESS PANELS. NO INSTALLATION OF ACCESS PANELS TO BE MADE UNTIL THE ARCHITECT HAS APPROVED THE LOCATIONS. ACCESS PANELS TO BE LABELED AS REQUIRED BY OWNER.

#### 10. EXITS

- A. EVERY EXIT DOOR TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- 11. PENETRATION OF RATED ASSEMBLIES
- A. MECHANICAL DUCTS, ETC. PENETRATING FIRE-RATED CEILINGS AND FIRE WALLS TO BE CORRESPONDINGLY RATED OR DAMPERED. CABINETS, ELECTRICAL PANELS, LIGHTS, ETC. RECESSED INTO FIRE-RATED WALLS OR CEILINGS TO BE BACKED WITH CORRESPONDING FIRE-RESISTIVE CONSTRUCTION AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE FIRE PROTECTION.
- B. FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENINGS TO COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- C. PENETRATION OF FIRE-RATED ASSEMBLIES WHICH REQUIRE OPENING PROTECTION TO BE FIRE STOPPED. FIRE RATING FOR FIRE STOP SYSTEMS TO BE EQUAL TO THE ASSEMBLY PENETRATED.

#### **12. DISSIMILAR METALS**

A. ALL DISSIMILAR METALS TO BE EFFECTIVELY ISOLATED FROM EACH OTHER WITH NEOPRENE ISOLATOR OR SIMILAR MATERIAL TO PREVENT MOLECULAR BREAKDOWN.

#### 13. ELECTRICAL BACKBOARDS

A. REFER TO ELECTRICAL, TELEPHONE/DATA AND SECURITY ELECTRONICS DRAWINGS FOR LOCATION OF AND SPECIFICATIONS FOR THE INSTALLATION OF FIRE RETARDANT TREATED PLYWOOD BACKBOARDS REQUIRED IN ELECTRICAL AND COMMUNICATION ROOMS. THESE REQUIRED PLYWOOD BACKBOARDS HAVE NOT BEEN SHOWN ON THE ARCHITECTURAL DRAWINGS, BUT MUST BE FURNISHED AND INSTALLED AS A PART OF THE OVERALL CONTRACT. BACKBOARDS TO BE PAINTED TO MATCH THE SURFACE UPON WHICH THEY ARE MOUNTED. ALL REQUIRED BLOCKING IN WALLS TO ACCEPT PLYWOOD SHOULD BE VERIFIED AND APPROVED WITH THE ELECTRICAL TEAM REPRESENTATIVE. COORDINATE LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

#### 14. SIGNAGE

A. FURNISH AND INSTALL SUPPORTS AND OTHER NECESSARY FINISH MATERIALS FOR A COMPLETE CODE REQUIRED SIGNAGE INSTALLATION. REMOVE AND REINSTALL EXISTING SIGNAGE.

#### 15. COORDINATION OF DEVICES

A. EXACT LOCATIONS AND HEIGHTS OF ELECTRICAL, LOW VOLTAGE, MECHANICAL AND PLUMBING DEVICES, INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, PULL STATIONS, SWITCHES, OUTLETS, PHONE JACKS, AND THERMOSTATS, TO BE COORDINATED BY THE CONTRACTOR FOR ALIGNMENT, COORDINATION WITH EACH OTHER AND OTHER BUILDING FEATURES PRIOR TO INSTALLATION AS APPROVED BY ARCHITECT AND OWNER.

#### 16. FIRE ALARM COORDINATION

- A. FIRE DETECTION ENGINEERING SERVICES, DOCUMENTS, AND PERMIT ACQUISITION TO BE PROVIDED ON A DESIGN-BUILD BASIS WITH THE SELECTED FIRE SYSTEM SUBCONTRACTOR PROVIDING THE REQUIRED DESIGN WORK WORK AND INSTALLATION BASED ON DIAGRAMS AND PERFORMANCE SPECIFICATIONS PROVIDED BY OWNER AND AND EXISTING CONDITIONS.
- B. CONTRACTOR TO VERIFY ALL UTILITIES AND COORDINATE EQUIPMENT AND UTILITY REQUIREMENTS AND LOCATIONS WITH FIRE SYSTEM ENGINEER PRIOR TO PROCEEDING AND REVIEW WITH ARCHITECT PRIOR TO FINAL ROUGH-IN.

#### **17. ELECTRICAL COORDINATION**

- A. ELECTRICAL CONTRACTOR TO EXAMINE EXISTING CONDITIONS, VERIFY ALL UTILITIES, AND COORDINATE POWER REQUIREMENTS WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING. REVIEW AND VERIFY LIGHTING, CONTROLS, OUTLETS, AND OWNER EQUIPMENT POWER LOCATIONS WITH THE ARCHITECT PRIOR TO APPROVAL AND FINAL ROUGH-IN.
- B. ALL LIGHT FIXTURES SHALL MEET CURRENT CODES AND BE PRE-APPROVED BY THE ARCHITECT AND OWNER.
- C. PROPOSALS AND DOCUMENTS PERTAINING TO THIS WORK TO BE PROVIDED TO THE ARCHITECT FOR REVIEW PRIOR TO PROCEEDING. ALL ELECTRICAL AND FIRE ALARM FIXTURES, COMPONENTS, AND ANY OTHER EXPOSED EQUIPMENT, ALONG WITH THEIR LOCATIONS TO BE SUBMITTED FOR REVIEW.
- D. ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES TO BE MOUNTED AT 15" A.F.F. UNLESS OTHERWISE NOTED.
- E. ELECTRICAL OUTLETS AT OPPOSITE SIDES OF FIRE RATED AND/OR ACOUSTICALLY RATED WALLS ARE TO BE SEPARATED BY A MINIMUM OF 24" MINIMUM HORIZONTAL SPACING AND SEPARATE STUD SPACES OR AS INDICATED IN THE DRAWINGS.

#### 18. MECHANICAL COORDINATION

A. CONTRACTOR TO VERIFY ALL UTILITIES AND COORDINATE EQUIPMENT POWER REQUIREMENTS AND LOCATIONS WITH MECHANICAL SPECIFICATIONS AND MECHANICAL ENGINEER PRIOR TO PROCEEDING AND REVIEW WITH ARCHITECT PRIOR TO FINAL ROUGH-IN.

#### **19. PROJECT CLOSEOUT**

- A. CONTRACTOR TO WARRANTEE ALL PARTS, LABOR, EQUIPMENT, AND MATERIAL PROVIDED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, FOR A PERIOD OF (1) YEAR, UPON COMPLETION OF CONTRACT.
- B. WHEN REQUESTING THE ARCHITECT'S INSPECTION FOR SUBSTANTIAL COMPLETION: 1. KNOWN EXEMPTIONS MUST BE LISTED IN THE REQUEST. 2. ALL WARRANTIES AND CERTIFICATES MUST BE SUBMITTED TO THE ARCHITECT. 3. THE CONTRACTOR'S PUNCH LIST MUST BE SUBMITTED WITH THE REQUEST.
- C. THE ARCHITECT WILL VERIFY THE CONTRACTOR'S PUNCH LIST AND INDICATE ADDITIONAL PUNCH LIST ITEMS AS NEEDED. RESULTS OF THE ARCHITECT COMPLETED INSPECTION WIL FORM THE "PUNCH LIST" FOR FINAL ACCEPTANCE. ONE RE-INSPECTION WILL BE PERFORMED BY THE ARCHITECT TO ESTABLISH CERTIFICATION OF FINAL ACCEPTANCE; FURTHER RE-INSPECTIONS BY THE ARCHITECT TO BE AT THE CONTRACTOR'S EXPENSE.
- D. ALL MAINTENANCE AND OPERATIONS MANUALS FOR ALL EQUIPMENT AND MATERIALS PROVIDED TO BE ORGANIZED AND PREPARED AS INDICATED IN THE PROJECT MANUAL.

#### 20. SEPARATE PERMIT (DESIGN BUILD) ITEMS

- A. THIS PROJECT WILL HAVE THE FOLLOWING SEPARATE PERMIT ITEMS WHICH MAY UTILIZE A DESIGN/BUILD APPROACH. THE INFORMATION CONTAINED IN THESE DOCUMENTS ARE PRELIMINARY, PROVIDING A BASIS FOR BIDDING AND PLANNING, ACTUAL ENGINEERING AND INSTALLATION DRAWINGS ARE TO BE PROVIDED UNDER A SEPARATE PERMIT AND REQUIRE THE WILL APPROVAL OF BOTH THE THE ARCHITECT/ THE ENGINEERS AND THE AUTHORITY HAVING JURISDICTION.
- SEE G-000 FOR LIST OF SEPARATE PERMIT ITEMS.
- B. THE PROCEDURE FOR "SEPARATE PERMIT APPROVAL DOCUMENTS" TO BE AS FOLLOWS: 1. THE DESIGN/BUILD CONTRACTOR TO PROVIDE (4) SETS OF (PDF) SUBMITTAL DOCUMENTS TO THE ARCHITECT FOR INITIAL REVIEW AND COORDINATION WITH THE DESIGN INTENT OF THE PROJECT.
- 2. IF THE SUBMITTAL DOCUMENTS ARE FOUND TO BE ACCEPTABLE THE ARCHITECT WILL ADD A NOTATION INDICATING THAT THE SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.
- 3. FOLLOWING THE ARCHITECT'S APPROVAL, THE DESIGN/BUILD CONTRACTOR IS RESPONSIBLE FOR SUBMITTING, TRACKING, AND OBTAINING APPROVAL FROM THE AUTHORITY HAVING JURISDICTION.
- 4. UPON APPROVAL BY THE AUTHORITY HAVING JURISDICTION, THE DESIGN/BUILD CONTRACTOR IS REQUIRED TO PROVIDE A COPY OF THE DRAWINGS TO THE ARCHITECT AND OWNER FOR REFERENCE.



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REVISIONS			
No.	Description	Date	

DRAWN BY: SEE CHECKED BY: SEE JOB NO: 22-002 BSD FIES DATE: 07/08/2022 ISSUED FOR: BID | PERMIT

SHEET TITLE **GENERAL NOTES** 

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D	RAWING INDEX		
		- Sec	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-001	GENERAL STRUCTURAL NOTES	X	
-161	ROOF PLAN	X	,
-501	DETAILS	X	,
<u>ISSUE LOO</u> ' X 'ISSU ' - ' NOT ' * ' FOR	<u>G KEY:</u> JED AS PART OF A SET A PART OF ISSUED SET R INFORMATION ONLY	DATE	

## LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT	FIN.
ACI	AMERICAN CONCRETE INSTITUTE	FLR.
ADD'L.	ADDITIONAL	FRT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FT.
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FTG. GA.
ALT.	ALTERNATE	GALV.
ALUM.	ALUMINUM	GL
ARCH.	ARCHITECT / ARCHITECTURAL	HORIZ
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HSS
ASD	ALLOWABLE STRENGTH DESIGN LOAD LEVEL	IBC I.D.
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IN.
AWS	AMERICAN WELDING SOCIETY	INT.
BLDG.	BUILDING	K
BOT.	BOTTOM	KSF
BRBF	BUCKLING RESTRAINED BRACED	KSI LBS.
C.G.	CENTER OF GRAVITY	L.L.
C.I.P.	CAST IN PLACE	LLH
C.J.	CONTROL JOINT	LLV
C.J.P.	COMPLETE JOINT PENETRATION	LOC.
CL	CENTERLINE	LONG.
CLR.	CLEAR	LSL
CLT	CROSS LAMINATED TIMBER	LVF
CMU	CONCRETE MASONRY UNIT	LVL
COL.	COLUMN	MAX.
CONC.	CONCRETE	MBMA
CONN.	CONNECTION	MECH.
CONST.	CONSTRUCTION	MEPF
CONT.	CONTINUOUS	
db	BAR DIAMETER	MFR.
DBA	DEFORMED BAR ANCHOR	MIN.
DET.	DETAIL	MISC.
DIA., Ø	DIAMETER	MPH
DIAG.	DIAGONAL	MPP
D.L.	DEAD LOAD	MI
DLT	DOWEL LAMINATED TIMBER	(N)
DWG.	DRAWING	N.I.C.
ELEC.	ELECTRICAL	NLT
EL.	ELEVATION	NOM.
EQ.	EQUAL	NO.
EXIST., (E)	EXISTING	N.T.S.
EXP.	EXPANSION	0.C.
EXT.	EXTERIOR	U.D.
FDN.	FOUNDATION	OPP.

FINISH	OWJ
FLOOR	PAF
FIRE RETARDANT TREATED	PART.
FOOT	P/C
FOOTING	PCF
GAUGE	PERIM.
GALVANIZED	PL
GLULAM	PP
HORIZONTAL	PSF
HOLLOW STRUCTURAL STEEL	PSL
INTERNATIONAL BUILDING CODE	PSI
INSIDE DIAMETER	P/T
INCHES	P.T.
INTERIOR	PVC
KIPS	R, RAD.
KIPS PER SQUARE FOOT	RCSC
KIPS PER SQUARE INCH	
POUNDS	REF.
LIVE LOAD	REI.
LONG LEG HORIZONTAL	REINF.
LONG LEG VERTICAL	REQ'D.
LOCATION	REQ'MIS.
LONGITUDINAL	SCHED.
LAMINATED STRAND LUMBER	S.C.
LOW VELOCITY FASTENER	SCL
	SLFS
ASSOCIATION	S.O.G. SPEC.
MECHANICAL	SQ.
MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SAFETY	SS
MANUFACTURER	SSMA
MINIMUM	
MISCELLANEOUS	STD.
MILES PER HOUR	STRUCT.
MASS PLYWOOD PANELS	SYM.
MAGNETIC PARTICLE TESTING	THRU
NEW	T&G
NOT IN CONTRACT	TRANS.
NAIL LAMINATED TIMBER	TS
NOMINAL	TYP.
NUMBER	U.N.O.
NOT TO SCALE	U.I.
ON CENTER	
OUTSIDE DIAMETER	
OPPOSITE	V.I.F.
	W/
	WF ,
	W/O
	W.P.
	WPS

WWF

## **GENERAL STRUCTURAL NOTES**



#### GENERAL

STRUCTURAL DRAWINGS ARE A PART OF THE CONTRACT DOCUMENTS AND ARE COMPLEMENTARY TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THE CONTRACT DOCUMENTS INTO THEIR SHOP DRAWINGS AND WORK. AS REQUIRED BY THE GENERAL CONDITIONS, THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR.

THE GENERAL STRUCTURAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. WHERE CONFLICT EXISTS, THE MORE STRINGENT OR RESTRICTIVE REQUIREMENT SHALL GOVERN UNITL CLARIFICATION IS REQUESTED.

#### CODE REQUIREMENTS:

CONFORM TO THE 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC).

#### TEMPORARY CONDITIONS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES UNTIL COMPLETION.

#### EXISTING CONDITIONS:

ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

#### **DESIGN CRITERIA**

DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED PER OSSC:

GRAVITY SYSTEM CRITERIA			
OCCUPANCY OR USE	UNIFORM LOAD	CONCENTRATED LOAD	
ROOF LIVE/SNOW LOAD	27 PSF L.L. (ALSO SEE SNO	W LOAD CRITERIA BELOW)	
FALL RESTRAINT ANCHORS	5,000 LB BREAKING AND 3,600 LB UL	TIMATE STRENGTH PER OSHA 1910	
GRAVITY LOADING NOTES:	<ol> <li>LIVE LOADS REDUCED PER OSSC.</li> <li>MEMBERS DESIGNED FOR MORE CRITICAL OF UNIFORM OR CONCENTRATED LOAD.</li> </ol>		
	SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	27 PSF MINIMUM IN ACC	CORDANCE WITH OSSC	
	Pg= 10 PSF		
	IN ACCORDANCE WITH: snowload.seao.org		
FLAT ROOF SNOW LOAD	Pf = 1	1 PSF	
SNOW EXPOSURE FACTOR	Ce =	= 1.0	
SNOW LOAD IMPORTANCE FACTOR	ls =	1.0	
THERMAL FACTOR	Ct =	1.0	
	WIND CRITERIA		
RISK CATEGORY	I	I	
MAIN WIND FORCE RESISTING SYSTEM	EN V = 103 MPH BASIC DESIGN WIND SPEED (3-SECOND GUST)		
COMPONENTS AND CLADDING	V = 103 MPH BASIC DESIGN W	IND SPEED (3-SECOND GUST)	
EXPOSURE CATEGORY	E	3	
GUST / INTERNAL PRESSURE	GCpi = +/- 0.18		

#### STRUCTURAL OBSERVATIONS

THE STRUCTURAL ENGINEER OF RECORD (SEOR) WILL PERFORM STRUCTURAL OBSERVATIONS BASED ON THE REQUIREMENTS OF THE OSSC. CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCED NOTICE AND ACCESS FOR THE SEOR TO PERFORM THESE OBSERVATIONS.

A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.

STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWINGS AND DOES NOT ALLEVIATE ANY SPECIAL INSPECTION REQUIREMENTS.

#### SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

#### SUBMITTALS

SUBMIT SHOP DRAWINGS AND OTHER SUBMITTALS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SUBMITTALS DIFFER FROM OR ADD TO THE STRUCTURAL CONTRACT DOCUMENTS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE SEOR.

FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

DELEGATED DESIGN SUBMITTALS SHALL INCLUDE DESIGN DRAWINGS AND CALCULATIONS FOR ITEMS THAT ARE DESIGNED BY OTHERS. DELEGATED DESIGN SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON ON EVERY DRAWING SHEET AND ON THE CALCULATION COVER SHEET, AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION. CALCULATIONS AND DETAILS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".

SUBMITTALS AND DELEGATED DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING:

ITEM	SUBMITTAL	DELEGATED DESIGN SUBMITTAL	COMMENTS
METAL STAIRS, LADDERS, AND RAILINGS		Х	
MEPF SYSTEMS ANCHORAGE AND BRACING		Х	REF. TABLE NOTE 1
ROOF TIE-OFF ANCHORS		Х	

TABLE NOTES:

THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SAFETY EQUIPMENT AND ASSOCIATED DISTRIBUTION SYSTEMS WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE AND PROVISIONS FOR SEISMIC MOVEMENTS SHALL CONFORM TO ASCE 7-16 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT AND SEOR PRIOR TO FABRICATION.

OPEN WEB JOIST POWDER ACTUATED FASTENER

PARTITION

PRECAST

POUNDS PER CUBIC FOOT

PERIMETER

PLATE

PARTIAL PENETRATION

POUNDS PER SQUARE FOOT

PARALLEL STRAND LUMBER

POUNDS PER SQUARE INCH

POST-TENSIONED

PRESSURE TREATED

POLYVINYL CHLORIDE

RADIUS

RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

REFERENCE

RETURN

REINFORCING

REQUIRED

REQUIREMENTS

SCHEDULE

SLIP CRITICAL

STRUCTURAL COMPOSITE LUMBER

SIMILAR

SEISMIC FORCE RESISTING SYSTEM

SLAB ON GRADE

SPECIFICATION

SQUARE STAINLESS STEEL

STEEL STUD MANUFACTURERS

ASSOCIATION

STANDARD

STRUCTURAL

SYMMETRICAL

THROUGH

TONGUE AND GROOVE

TRANSVERSE

LIGHT GAUGE TUBE STEEL

TYPICAL

UNLESS NOTED OTHERWISE

ULTRASONIC TESTING

ULTIMATE STRENGTH DESIGN LOAD LEVEL

VERTICAL

VERIFY IN FIELD

WITH

WIDE FLANGE

WITHOUT

WORK POINT

WELDING PROCEDURE SPECIFICATION

WELDED WIRE FABRIC

#### SAWN LUMBER

SAWN LUMBER SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE CURRENTLY ACCEPTED NATIONAL DESIGN SPECIFICATION (NDS) DESIGN VALUES FOR WOOD CONSTRUCTION AND CONFORMING TO THE WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. LUMBER SHALL BE THE SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW, U.N.O.:

USE	SPECIES AND GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH NO. 2 & BTR	MC 15, KD
UMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH STUD	S-DRY, MC 15, KD
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH NO. 1	MC 15, KD, S-DRY
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH NO. 1	S-DRY

ALL LUMBER IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED, UNLESS AN APPROVED MOISTURE BARRIER IS PROVIDED.

CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO THE TYPICAL WOOD DETAILS PROVIDED OR OSSC SECTIONS 2308.4.2.4, 2308.5.9 AND 2308.7.4 WHERE NO DETAILS ARE SPECIFIED.

SALVAGED LUMBER IS ACCEPTABLE PROVIDED IT IS GRADED BY AN APPROVED GRADING AGENCY PRIOR TO USE AND MEETS A MINIMUM ALLOWABLE BENDING STRESS (Fb) OF 1,000 PSI. CONTRACTOR TO SUBMIT A GRADING REPORT ON EACH MEMBER TO THE ARCHITECT PRIOR TO INSTALLATION.

#### LUMBER FASTENERS AND ACCESSORIES

FRAMING ACCESSORIES INDICATED SHALL BE MANUFACTURED BY SIMPSON STRONG TIE (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SPECIFIED. ALL NAIL HOLES SHALL BE FILLED WITH STRUCTURAL FASTENERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND FASTENERS SHALL BE INSTALLED FOLLOWING ALL MANUFACTURERS REQUIREMENTS. ACCESSORIES SHALL BE GALVANIZED UNLESS INDICATED OTHERWISE. PROVIDE G90 COATING EXCEPT WHERE IN CONTACT WITH PRESERVATIVE OR FIRE RETARDANT TREATED WOOD IN WHICH CASE G185 SHALL BE PROVIDED. SUBMIT SUBSTITUTION REQUESTS TO ARCHITECT FOR APPROVAL OUTLINING THE FRAMING ACCESSORIES BEING REPLACED AND THE SUBSTITUTED FRAMING ACCESSORIES. ALLOWABLE LOADS FOR THE SPECIFIED ACCESSORIES SHALL BE TABULATED ALONG WITH THE ALLOWABLE LOADS FOR THE SUBSTITUTED ACCESSORIES. SUBSTITUTION REQUESTS WILL ONLY BE APPROVED WHERE SUBSTITUTED PRODUCTS ARE CLEARLY DOCUMENTED TO HAVE EQUAL OR GREATER CAPACITY IN ALL DIRECTIONS.

ALL FRAMING NAILS SHALL BE THE SIZE AND QUANTITY INDICATED AND CONFORM TO ASTM F 1667, INCLUDING SUPPLEMENT 1, "STANDARD SPECIFICATION OF DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES" AND ICC-ES REPORT ESR-1539 "POWER-DRIVEN STAPLES AND NAILS". NAILS SHALL BE IDENTIFIED BY LABELS (ATTACHED TO THEIR CONTAINERS) THAT SHOW THE MANUFACTURER'S NAME AND ICC-ES REPORT NUMBER, NAIL SHANK DIAMETER AND LENGTH AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FRAMING. NAILING NOT SHOWN SHALL BE AS INDICATED IN OSSC TABLE 2304.10.1 OR ICC ESR-1539. THE FOLLOWING NAIL SIZES SHALL BE USED WITH THE NAIL LENGTH DETERMINED BY MINIMUM PENETRATION INTO FRAMING MEMBER:

FRAMING NAILS			
NAIL TYPE SHANK DIAMETER (IN.) MINIMUM PENETRAT FRAMING MEMBE		MINIMUM PENETRATION INTO FRAMING MEMBER (IN.)	
6d	0.113	1.125	
8d	0.131	1.375	
10d	0.148	1.5	
12d	0.148	1.5	
16d	0.148, 0.162	1.5, 1.625	

BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.

#### WOOD STRUCTURAL PANELS

THE TERM "WOOD STRUCTURAL PANEL" REFERS TO A WOOD-BASED PANEL PRODUCT BONDED WITH A WATERPROOF ADHESIVE INCLUDING BOTH PLYWOOD AND ORIENTED STRAND BOARD (OSB). WOOD STRUCTURAL PANELS SHALL CONFORM TO U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARDS PS1 OR PS2 FOR WOOD-BASED STRUCTURAL USE PANELS, OR APA PERFORMANCE STANDARD PRP-108 (ICC-ES ESR-2586). PANELS SHALL BE APA RATED SHEATHING OR APA RATED STURD-I-FLOOR, EXTERIOR OR EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. PANELS SHALL BE STAMPED WITH THE APA TRADEMARK.

WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE INDICATED OR RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING AND FLOOR SHEATHING SHALL BE INSTALLED WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. WHERE BLOCKING IS SPECIFICALLY INDICATED ON THE DRAWINGS, T&G EDGES OR PLYCLIPS MAY NOT BE SUBSTITUTED. SHEATHING SHALL BE UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS. FLOOR SHEATHING SHALL BE FIELD GLUED TO THE FRAMING USING ADHESIVES MEETING APA SPECIFICATION AFG-01 OR ASTM D3498. TONGUE AND GROOVE PANELS SHALL ALSO BE GLUED AT THE T&G JOINT.

SHEAR WALL SHEATHING SHALL BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY AND BE BLOCKED WITH 2x FRAMING AT ALL PANEL EDGES. NAILING NOT SHOWN SHALL BE AS INDICATED IN OSSC TABLE 2304.10.1.





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#### NOTES:

1. ⊠ INDICATES FALL RESTRAINT ANCHOR COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DRAWINGS AND TRUSS LOCATIONS. REF. DETAIL 1/S-501



ROOF















SYMBOLS:	
#	BUILDIN
1 A1.0	Buildin
TITLE SCALE: X/X.X	DRAWI
	DETAIL
1 A1.0	EXTERIC
D $A$ $A$ $A$ $A$ $B$ $C$ $A$ $B$ $C$ $A$ $B$ $C$ $A$ $A$ $B$ $C$ $A$	INTERIC
MATCH LINE SEE Ax.x	МАТСН
	NORTH
	REVISIO
1 A1.0	WALL S

			ABBREVIATIONS:		
UILDING GRID IDENTIFICATION	0'-0"	CEILING HEIGHT TAG (AFF)		GALV GALVANIZED	R RISER RAD RADIUS
			AD AREA DRAIN	GB GRAB BAR	RAF RUBBERIZED ASPHALT FLASHING
			AFF ABOVE FINISHED FLOOR	GL GLASS/GLAZING	RF RESINOUS FLOORING
			ALT ALTERNATE	GWB GYPSUM WALL BOARD	RFG REFRIGERATOR
	TOP		ALUM ALUMINUM		RB RUBBER BASE
UILDING SECTION IDENTIFICATION	Ф вот	DATUMITAG	ANOD ANODIZED		
			AWP ACOUSTICAL WALL PANEL		
RAWING IDENTIFICATION	(101A)	DOOR NUMBER	BETW	HSS HOLLOW STRUCTURAL STEEL TUBE	
			BLD'G BUILDING		RM ROOM
			BLK'G BLOCKING		RO ROUGH OPENING
			BO BOTTOM OF	ID INSIDE DIAMETER	RT RUBBER TILE
			BOT/BTM BOTTOM	INSUL INSULATION	RW RESINOUS WALL
ETAIL IDENTIFICATION	$\langle 1 \rangle$	EXTERIOR FINISH MATERIAL/COLORS		INT INTERIOR	
	$\overline{A}$		CFCI CONTRACTOR FURNISHED		SAM SELF-ADHERED MEMBRANE
			CONTRACTOR INSTALLED	JAN JANITOR	SC SEALED CONCRETE
			CG CORNER GUARD	JT JOINT	SCD SEAT COVER DISPENSER
					SCHED SCHEDULE
<b>XTERIOR ELEVATION IDENTIFICATION</b>	A	EXTERIOR WALL TYPE		KD KNOCK DOWN FRAME	SCS SHOWER COMPARTMENT SEAT
					SD SOAP DISPENSER
ITERIOR ELEVATION IDENTIFICATION	$\langle XX-1 \rangle$	FURNITURE TAG			
			CONC CONCRETE	MIRROR	
				MANUF	SNB SANITARY NAPKIN RECEPTACI E
			CONT CONTINUOUS	ΜΑΧΜΑΧΙΜυΜ	SR SHOWER ROD
			CPT CARPET	MB MARKER BOARD	SO SOUARE
ATCH LINE IDENTIFICATION	X-X	INTERIOR FINISH MATERIAL	CT CERAMIC TILE	MCM METAL COMPOSITE MATERIAL	SS SOLID SURFACING MATERIAL
				MCP METAL CEILING PANEL	SST STAINLESS STEEL
			D DRYER	MDO MEDIUM DENSITY OVERLAY	SSG STRUCTURAL SILICONE GLAZING
			DBL DOUBLE	ME MATCH EXISTING	STD STANDARD
			DBRON DARK BRONZE	MFR MANUFACTURE	ST STONE
ORTH ARROW	$\langle A \rangle$	KEY NOTES	DEMO DEMOLISHED	MIN MINIMUM, MINUTE	STL STEEL
			DET DETAIL	MISC MISCELLANEOUS	STOR STORAGE
			DF DRINKING FOUNTAIN	MO MASONRY OPENING	STRUC STRUCTURAL
			DIA DIAMETER	MP METAL PANEL	SUSP SUSPENDED
					SV SHEET VINYL
EVISION IDENTIFICATION	ROOM NAME	ROOM NAME AND NUMBER		MRP METAL ROOF PANEL	SVB SHEET VINYL BASE
	101				SYM SYMMETRICAL
				MWP METAL WALLPANEL	
	$\wedge$				
ALL SECTION IDENTIFICATION	$\langle A \rangle$	WINDOW TYPE		NTS NOT TO SCALE	T/G TOUNGE AND GBOOVE
	•		(E)	(N) NEW	
			EAEACH	NIC NOT IN CONTRACT	THRU THROUGH
	$\wedge$		EJ EXPANSION JOINT	NO./# NUMBER	T. O TOP OF
	$\langle \# \rangle$	EQUIPMENT NUMBER	ELECT ELECTRICAL		TOB TOP OF BEAM/BRICK/BLOCK
	$\checkmark$		EL/ELEV ELEVATION	OA OVERALL	TOC TOP OF CURB
			EP EPOXY PAINT	OC ON CENTER	TOD TOP OF DECK
			EQ EQUAL	OD OUTSIDE DIAMETER	TOP TOP OF PARAPET
			EQUIP EQUIPMENT	OFCI OWNER FURNISHED	TOW TOP OF WALL
			ES EACH SIDE	CONTRACTOR INSTALLED	TPD TOILET PAPER DISPENSER
			EX EXIT	OFOI OWNER FURNISHED	TR TRANSPARENT FINISH
			EXIST EXISTING	OWNER INSTALLED	TS TUBE STEEL
					ISC IOILET SEAT COVER DISPENSER
			EXT EXTERIOR		TYP TYPICAL
					OON ONLESS OTHERWISE NOTED
				PL/PLAM PLASTIC LAMINATE	
COUSTICAL CEILING TILE		GROUT		PLAS PLASTIC	VBX VIEW BOX
	and the second second second		FD FLOOR DRAIN	PNL PANEL	
			FE FIRE EXTINGUISHER	PR PAIR	VER VERIFY
			FEC FIRE EXTINGUISHER CABINET	PS PROJECTOR SCREEN	VERT VERTICAL
			FF FINISHED FLOOR	PT PRESSURE TREATED	VIF VERIFY IN FIELD
ATTINSULATION		GYPSUM BOARD IN SECTION	FIN FINISH	PTD PAPER TOWEL DISPENSER	VP VENEER PLASTER
			FLASH FLASHING	PTDR PAPER TOWEL DISPENSER	
			FLR FLOOR	& RECEPTACLE	W/ WITH
			FOB FACE OF BRICK/BLOCK	PLYWD PLYWOOD	W/O WITHOUT
			FOC FACE OF CONCRETE		WB WEATHER BARRIER
UNCKETE IN SECTION		INTERMITTENT BLOCKING	FOF FACE OF FINISH	QT QUARRY TILE	WC WINDOW COVERING
			FOS FACE OF STUDS OR STEEL		WD WOOD
			FRT FIRE RETARDANT TREATED		WG WALL GUARD
					WM WALK-OFF MAT
	<i>X////////</i>				
UNTINUOUS LUMBER		MASONRY IN SECTION			
			ΓΥ ΗΕLU VEKIFY		

### MATERIAL HATCHES:

	ACOUSTICAL CEILING TILE	
	BATT INSULATION	
рани и станий в станий	CONCRETE IN SECTION	
	CONTINUOUS LUMBER	
	EARTH	
	FINSHED LUMBER	
	GRAVEL	

METAL IN SECTION

PLYWOOD IN SECTION

**RIGID INSULATION IN SECTION** 

WM. . . . . . WALK-OFF MAT WP. . . . . . WORK POINT WPRF. . . . . WATERPROOF WSV . . . . . WELDED SHEET VINYL WSVB. . . . . WELDED SHEET VINYL BASE WWF . . . . WELDED WIRE FABRIC



# Ο ( TRI HO ROOFING REPLACEMEN BEAVERTON SCHOOL DISTI FINDLEY ELEMENTARY SCH 4155 NW SALTZMAN RD. PORTLAND, OR 97229



No.	Description	Date	

DRAWN BY: SEE CHECKED BY: SEE JOB NO: 22-002 BSD FIES

DATE: 07/08/2022 ISSUED FOR: BID | PERMIT

SHEET TITLE ABBREVIATIONS, SYMBOLS & MATERIAL HATCHES





## ROOF PLAN SHEET NOTES

- 1. ROOF PLAN FOR GENERAL PURPOSE ONLY. 2. INFORMATION RELATING TO THE EXISTING BUILDING IS BASE ON CASUAL OBSERVATION ACTUAL CONDITIONS VERY AND SHELL BE FIELD VERIFIED BY THE CONTRACTOR.
- 3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
- 4. ONLY MAJOR ELEMENTS ARE SHOWN.
- 5. ROOF AREA SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF AREAS FOR BIDDING AND CONSTRUCTION PURPOSES.
- 6. MINIMUM ROOF COVERING CLASSIFICATION FOR TYPES OF CONSTRUCTION IS BASED ON TABLE 1501.1 IN CHAPTER 15 ROOF ASSEMBLIES FOR SPECIFIED ROOFTOP STRUCTURES. ROOFING REPLACEMENT ASSEMBLIES ARE CLASS A.
- 7. CONTRACTOR RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF ALL UTILITY CONNECTIONS AS REQ'D TO COMPLETE WORK. THIS INCLUDES ANY WORK REQ'D TO EXTEND PIPES, WIRES, ETC. TO MEET MIN. CLEARANCES.
- 8. THE VENT AND PIPE SIZES NOTED ON THE DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK. 9. ROOF CANNOT BE LEFT UNPROTECTED FROM THE ELEMENTS FOR A
- WEEKEND OR HOLIDAY PERIOD. CONTRACTOR MAY LEAVE ROOF UNPROTECTED OVERNIGHT AND ASSUMES ALL RISK FOR ANY DAMAGE CAUSED. 10. CONTRACTOR TO PROVIDE SITE CLEANUP AT THE END OF EACH WORK DAY.
- CLEANUP SHALL INCLUDE A MAGNET/METAL DETECTOR FOR ALL HARD SURFACES WITHIN 15 FEET OF BUILDING AND ALL LANDSCAPED AREAS.
- 11. REMOVE EXISTING ROOFING DOWN TO EXISTING SHEATHING UNLESS OTHERWISE NOTED IN ASSEMBLY B. REMOVE AND DISPOSE OF ROOFING AS REQ'D. BY GOVERNING AUTHORITIES. 12. REPLACE EXISTING ROOF SYSTEM DAMAGED FROM WATER INTRUSION AS
- REQ'D FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, SHEATHING, CURBS, BLOCKING, FLASHING, ETC. 13. FOR ADDITIONAL GENERAL DEMOLITION INFORMATION SEE NO. 6 UNDER
- GENERAL NOTES ON SHEET G-001. 14. INSTALL (N) GALV. OSAA APPROVED LADDER W/ ANCHORS TO CMU PER
- STRUCTURAL 15. CONTACT DISTRICT MAINTENANCE BEFORE REMOVING OR RELOCATING ANY ELECTRICAL CONDUIT OR CABLE FROM THE ROOF.

# ROOF PLAN LEGEND (FINDLEY ES)

NOT ALL SY MAY VARY I	MBOLS MAY BE USED. SIZES AND PROPORTIO FROM WHAT IS ILLUSTRATED IN LEGEND.
Α	(N) LOW-SLOPE ROOF - OVERLAY ROOF SYST (E) SINGLE-PLY MEMBRANE ROOF ASSEMBLY
В	(N) STEEP-SLOPE ROOF - ASPHALT COMPOSI SHINGLE ROOF SYSTEM
VA/B	CONSTRUCTION TYPE/FIRE CLASSIFICATION
VB/C	CONSTRUCTION TYPE/FIRE CLASSIFICATION
	(N) WALKING PAD
	$(E)$ ROOF ACCESS HATCH. $\langle 4 \rangle$
 FR	(N) FALL RESTRAINT ANCHOR POSTS AS PARTIE-OFF DESIGN BUILD SYSTEM. SEE DETAIL
	(E) ROOFTOP MECHANICAL UNITS

$\geq$	(E) ROOFTOP MECHANICAL UNITS
	(E) MECHANICAL
$\circ$ SV	(E) STACK VENT
○ RD	(E) ROOF DRAIN $\langle 3 \rangle$ TYP.
	(E) OVERFLOW DRAIN $\langle 3 \rangle$ TYP.
• 🗹 C	(E) COMBINATION MAIN ROOF & OVERFLOW
СВ	(E) COLLECTOR BOX AND DOWNSPOUT TO F
(N) DS	(N) GUTTER WITH LEAF GUARD AND DOWNS
DS	(E) GUTTER AND DOWNSPOUT TO REMAIN $\langle$
SC	(E) SCUPPER
	(N) COPING
EL	(E) ELECTRICAL

# 🗆 LF (E) LIGHT FIXTURE (E) ROOF SLOPE DIRECTION KEY NOTES (FINDLEY ES)

- 1 INSTALL (N) GALV. OSHA APPROVED LADDER. ANCHORS TO CMU PER STRUCTURAL.
- 2 ADD HORIZONTAL 4X6 FLAT BLOCKING BETWEEN WALL FRAMING AT ALL ANCHOR LOCATIONS PER STRUCTURAL.
- 3 CLEAN ROOF / OVERFLOW DRAIN BODIES, AND ROOF DOME ASSEMBLIES. RESET ROOF DOMES WITH A NEW ROOFING ASSEMBLY.
- $\langle 4 \rangle$  provide and install (N) safety guardrail with gate.
- 5 DEMO (E) ROOF LADDER.
- $\langle 6 \rangle$  SALVAGE CAMERA WARNING SIGN. REINSTALL OVER NEW SIDING  $\langle 7 \rangle$  (E) CONDUIT PENETRATION AT PARAPET
- $\langle 8 \rangle$  (E) BRACING PENETRATIONS AT PARAPET
- $\langle 9 \rangle$  (E) ELECTRICAL OUTLET
- (10) DEMO (E) SINGLE-PLY MEMBRANE BASE FLASHING AND PROVIDE NEW AS REQUIRED FOR REPAIR WORK NOTED BELOW. - COMPLETE REMOVAL OF THE EXISTING MEMBRANE BASE FLASHING, INCLUDING ALL REMNANTS OF BITUMEN BLEED-OUT. - CLEANING OF THE INTERFACE WHERE THE TOP OF THE MONITOR CURB MEETS THE UNDERSIDE OF THE SHEET METAL SILL CLOSURE FLASHING. - PLACEMENT OF A NEW MEMBRANE BASE FLASHING (45-MIL). MECHANICALLY FASTEN AT THE TOP OF THE CURB, DIRECTLY UNDER THE DOWNWARD LEG OF THE SILL CLOSURE FLASHING TO REMAIN. INSTALL A CONTINUOUS, ALUMINUM TERMINATION BAR.
  - ° SEAL THE MEMBRANE BASE FLASHING TO THE FIELD OF THE MEMBRANE ROOFING. - PLACE A TEMPORARY BACKER ROD INTO THE INTERSTITIAL SPACE BETWEEN THE TOP OF THE NEW TERMINATION BAR AND THE UNDERSIDE OF THE EXISTING SHEET METAL FLASHING. - APPLY THE NEW LIQUID APPLIED REHABILITATION ROOFING SYSTEM, WITH FULLY-REINFORCED BASE FLASHINGS. STOP THE SYSTEM AT THE
  - UNDERSIDE OF THE TERM BAR. °EVEN THOUGH THE BACKER ROD IS PLACED TO REDUCE THE RISK OF CHEMICAL INCOMPATIBILITY, DO NOT ALLOW THE POLYURETHANE COATING TO ENTER THE SILL CONDITION. - ALLOW FULL CURE OF THE REHABILITATION ROOFING SYSTEM.
- REMOVE THE BACKER ROD AND DISCARD. (11) CLEAN GUTTER, COLLECTOR BOX AND DOWNSPOUT ASSEMBLIES. RESEAL ALL GUTTER AND COLLECTOR BOX SEAMS, TYPICAL.
- (12) PROVIDE FULLY-FORMED PMMA LIQUID APPLIED FLASHING MEMBRANE SADDLE @ BASE OF WALL





ONS OF ELEMENTS

STEM OVER

SITION

ART OF SINGLE POINT IL 8/A-511, TYP.

W DRAIN  $\langle 3 \rangle$  TYP. REMAIN (11) TYP. NSPOUT  $\langle 11 \rangle$  TYP.





# MEI DIS 2 FIN ROO BEAV



REVISIONS			
No.	Description	Date	

DRAWN BY: EVS CHECKED BY: SEE JOB NO: 22-002 BSD FIES

DATE: 07/08/2022 ISSUED FOR: BID | PERMIT

SHEET TITLE

ROOF PLAN





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

#### ROOF PLAN SHEET NOTES

- 1. ROOF PLAN FOR GENERAL PURPOSE ONLY. 2. INFORMATION RELATING TO THE EXISTING BUILDING IS BASE ON CASUAL OBSERVATION ACTUAL CONDITIONS
- 3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
- 4. ONLY MAJOR ELEMENTS ARE SHOWN. 5. ROOF AREA SHOWN ARE APPROXIMATE, CONTRACTOR IS
- RESPONSIBLE FOR VERIFICATION OF AREAS FOR BIDDING AND CONSTRUCTION PURPOSES.
- 6. MINIMUM ROOF COVERING CLASSIFICATION FOR TYPES OF CONSTRUCTION IS BASED ON TABLE 1501.1 IN CHAPTER 15 ROOF ASSEMBLIES FOR SPECIFIED ROOFTOP STRUCTURES. ROOFING REPLACEMENT ASSEMBLIES ARE CLASS A.

## ROOF PLAN LEGEND (FINDLEY ES)

NOT ALL SY MAY VARY	MBOLS MAY BE USED. SIZES AND PROPORTIC FROM WHAT IS ILLUSTRATED IN LEGEND.
· · · · · · · · · · · ·	(N) LOW-SLOPE ROOF - OVERLAY ROOF SYST (E) SINGLE-PLY MEMBRANE ROOF ASSEMBLY
	(N) STEEP-SLOPE ROOF - ASPHALT COMPOSI SHINGLE ROOF SYSTEM
VA/B	CONSTRUCTION TYPE/FIRE CLASSIFICATION
VB/C	CONSTRUCTION TYPE/FIRE CLASSIFICATION
	(N) WALKING PAD
	$(E)$ ROOF ACCESS HATCH. $\langle 4 \rangle$
 FR	(N) FALL RESTRAINT ANCHOR POSTS AS PAR TIE-OFF DESIGN BUILD SYSTEM. SEE DETAIL
	(E) ROOFTOP MECHANICAL UNITS
	(E) MECHANICAL
∘ sv	(E) STACK VENT
○ RD	(E) ROOF DRAIN $\langle 3 \rangle$ TYP.
🖾 OD	(E) OVERFLOW DRAIN $\langle 3 \rangle$ TYP.
• 🕅 C	(E) COMBINATION MAIN ROOF & OVERFLOW
ОСВ	(E) COLLECTOR BOX AND DOWNSPOUT TO R
(N) DS	(N) GUTTER WITH LEAF GUARD AND DOWNS
DS	(E) GUTTER AND DOWNSPOUT TO REMAIN $\langle$
sc	(E) SCUPPER
	(N) COPING
EL	(E) ELECTRICAL
🗆 LF	(E) LIGHT FIXTURE
<u> </u>	(E) ROOF SLOPE DIRECTION

VERY AND SHELL BE FIELD VERIFIED BY THE CONTRACTOR.

IONS OF ELEMENTS

STEM OVER BLY SITION

ART OF SINGLE POINT AIL 8/A-511, TYP.

OW DRAIN  $\langle 3 \rangle$  TYP. TO REMAIN  $\left< 11 \right>$  TYP. VNSPOUT IN (11) TYP.

![](_page_7_Picture_20.jpeg)

L DIST KY SCH AR) 5 REPLACE I SCHOOL EMENTAR ROOFING I BEAVERTON 5 FINDLEY ELEM

![](_page_7_Picture_22.jpeg)

REVISIONS			
No.	Description	Date	

DRAWN BY: EVS CHECKED BY: SEE JOB NO: 22-002 BSD FIES DATE: 07/08/2022

ISSUED FOR: BID | PERMIT SHEET TITLE ROOF PLAN - ASSEMBLY AREAS

![](_page_7_Picture_27.jpeg)

![](_page_8_Figure_1.jpeg)

#### ELEVATION SHEET NOTES 1. ELEVATIONS ARE FOR GENERAL PURPOSE ONLY.

- 2. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON CASUAL OBSERVATION. ACTUAL CONDITIONS VARY AND SHOULD BE
- FIELD VERIFIED BY THE CONTRACTOR.
- 3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
- 4. ONLY MAJOR ELEMENTS ARE SHOWN.
- 5. DEMO (E) MDO WALL PANEL AND FASCIA CLADDING DOWN TO SHEATHING. REMOVE REGLET COUNTER FLASHING AND INCOMPATIBLE SEALANTS.

	EVATION LEGEND ALL SYMBOLS MAY BE USED.
, , , , , , , , , , , , , , , , , , ,	(E) WINDOW
	(N) FIBER CEMENT CLADDING
	(E) SHEET METAL PANEL
	(N) SHEET METAL PANEL
	(E) FIBER CEMENT HORIZONTAL LAP SIDING
	(E) CMU
<u>.                                    </u>	
ELE	EVATION KEY NOTES
NOT A	ALL NOTES MAY BE USED.
$\langle 1 \rangle$	(E) SMOOTH FACE CMU, PAINTED
2	(E) PRE-FINISHED SHEET METAL COUNTER FLASH CLEAN, RESEAL, AND PAINT
3	(E) FIBER CEMENT SIDING
$\langle 4 \rangle$	(E) ROOF PARAPET
$\langle 5 \rangle$	(E) STAIRS
6	(E) CLERESTORY WINDOWS
$\langle 7 \rangle$	(N) FIBER CEMENT WALL PANEL CLADDING - PAIN
8	(N) FIBER CEMENT FASCIA CLADDING - PAINT TO
9	(N) ROOF OVERPLAY BASE FLASHING, TYPICAL.
$\langle 10 \rangle$	(N) GALV. OSHA APPROVED ROOF LADDER
$\langle 11 \rangle$	(N) PRIMED SHEET METAL FLASHING - PAIN TO M

HING -

INT TO MATCH EXISTING O MATCH EXISTING

MATCH EXISTING.

15'-4" 

\_\_\_<u>21'-0"</u> T.O. TRUSS \_\_\_\_\_\_ 

- <u>349'-6"</u> FIN. FLR.

<u>33</u>5'-6" FIN. FLR.

23'-0" 21'-0" 370'-6" T.O. TRUSS 16'-0" 15'-0" 14'-0" 13'-0"

![](_page_8_Picture_38.jpeg)

![](_page_8_Picture_39.jpeg)

# HOH G REPLACEMEN I SCHOOL DIST EMENTARY SCH ROOFING I BEAVERTON 5 FINDLEY ELEM

![](_page_8_Picture_41.jpeg)

No.	Description	Date

DRAWN BY: EVS CHECKED BY: SEE JOB NO: 22-002 BSD FIES DATE: 07/08/2022

ISSUED FOR: BID | PERMIT SHEET TITLE EXTERIOR ELEVATIONS

![](_page_8_Picture_46.jpeg)

![](_page_9_Figure_1.jpeg)

![](_page_9_Figure_2.jpeg)

**4 PARTIAL WALL SECTION** SCALE: 3/4" = 1'-0"

3 PARTIAL WALL SECTION SCALE: 3/4" = 1'-0"

![](_page_9_Figure_6.jpeg)

(12)

![](_page_9_Figure_7.jpeg)

![](_page_9_Figure_8.jpeg)

15

![](_page_9_Picture_9.jpeg)

![](_page_9_Picture_11.jpeg)

**ROOFING DETAIL SHEET NOTES** 

- 1. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON CASUAL OBSERVATION ACTUAL CONDITIONS VERY AND SHELL BE FIELD VERIFIED BY THE CONTRACTOR.
- 2. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR
- LARGER THAN INDICATED. 3. ONLY MAJOR ELEMENTS ARE SHOWN.
- 4. CONTRACTOR RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF ALL UTILITY CONNECTIONS AS REQ'D TO COMPLETE WORK. THIS INCLUDES ANY WORK REQ'D TO EXTEND PIPES, WIRES, ETC. TO MEET MIN. CLEARANCES.
- 5. ROOF CANNOT BE LEFT UNPROTECTED FROM THE ELEMENTS FOR A WEEKEND OR HOLIDAY PERIOD. CONTRACTOR MAY LEAVE ROOF UNPROTECTED OVERNIGHT AND ASSUMES ALL RISK FOR ANY DAMAGE CAUSED.
- 6. CONTRACTOR TO PROVIDE SITE CLEANUP AT THE END OF EACH WORK DAY. CLEANUP SHALL INCLUDE A MAGNET/METAL DETECTOR FOR ALL HARD SURFACES WITHIN 15 FEET OF BUILDING AND ALL LANDSCAPED AREAS. 7. REMOVE EXISTING ROOFING DOWN TO EXISTING SHEATHING. REMOVE AND DISPOSE OF
- ROOFING AS REQ'D. BY GOVERNING AUTHORITIES. 8. REPLACE EXISTING ROOF SYSTEM DAMAGED FROM WATER INTRUSION AS REQ'D FOR NEW SCOPE
- OF WORK INCLUDING, BUT NOT LIMITED TO, SHEATHING, CURBS, BLOCKING, FLASHING, ETC. 9. FOR ADDITIONAL GENERAL DEMOLITION INFORMATION SEE NO. 6 UNDER GENERAL NOTES ON
- SHEET G-001. 10. NEW SHEET METAL PROFILES ( COPINGS, EDGE METAL, ETC.) SHALL CLOSELY MATCH EXISTING TO
- BE REPLACED. CONTRACTOR TO FIELD-MEASURE EXISTING FABRICATION PRIOR TO DISPOSAL. 11. TYPICAL ROOF DETAIL SHEET NOTES APPLY TO ALL ROOFING DETAIL SHEETS.

![](_page_10_Figure_13.jpeg)

NOTE: PROVIDE A HOOD IF MORE THAN ONE CONDUIT 6 TYPICAL STACK VENT/ CONDUIT / PIPE PENETRATION

PROVIDE COLD-APPLIED, DUAL COAT REINFORCED OVERLAY LIQUID-APPLIED ROOF ALPHAGUARD BIO BY TREMCO OR APPROVED

![](_page_10_Picture_26.jpeg)

ROOFING REPLACEMEN BEAVERTON SCHOOL DISTI FINDLEY ELEMENTARY SCH 4155 NW SALTZMAN RD. PORTLAND, OR 97229

![](_page_10_Picture_28.jpeg)

No.	Description	Date

DRAWN BY: AAE CHECKED BY: SEE JOB NO: 22-002 BSD FIES DATE: 07/08/2022

ISSUED FOR: BID | PERMIT SHEET TITLE

GENERAL ROOF ASSEMBLIES AND TYPICAL ROOF DETAILS

![](_page_10_Picture_34.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_4.jpeg)

![](_page_12_Figure_5.jpeg)

![](_page_12_Picture_7.jpeg)

REVISIONS		
No.	Description	Date

![](_page_13_Figure_1.jpeg)

![](_page_13_Figure_2.jpeg)

9 CMU LADDER DETAIL SCALE: 3" = 1'-0"

![](_page_13_Figure_5.jpeg)

![](_page_13_Picture_6.jpeg)

A-515