

# SNOHOMISH CITY HALL ROOF REPLACEMENT

## ABBREVIATIONS

<b>&amp; L</b>	AND	<b>GA</b>	GAUGE	<b>R or RAD</b>	RADIUS
<b>∠</b>	ANGLE	<b>GALV</b>	GALVANIZED	<b>RB</b>	RESILIENT BASE
<b>@</b>	AT	<b>GB</b>	GRAB BAR	<b>RCP</b>	REFLECTED CEILING PLAN
<b>∅</b>	DIAMETER	<b>GC</b>	GENERAL CONTRACTOR	<b>RD</b>	ROOF DRAIN
<b>#</b>	POUND OR NUMBER	<b>GL</b>	GLASS	<b>REF</b>	REFERENCE
<b>(E)</b>	EXISTING	<b>GLB</b>	GLU-LAM BEAM	<b>REFR</b>	REFRIGERATOR
<b>⊕</b>	CENTERLINE	<b>GND</b>	GROUND	<b>REINF</b>	REINFORCED
<b>⊖</b>	PROPERTY LINE	<b>GR</b>	GRADE	<b>RELOC</b>	RELOCATE
<b>A.B.</b>	ANCHOR BOLT	<b>GRTD</b>	GROUTED	<b>REQD</b>	REQUIRED
<b>ABV</b>	ABOVE	<b>GWB</b>	GYP SUM WALL BOARD	<b>RES</b>	RESILIENT
<b>AC</b>	AIR CONDITIONING	<b>HB</b>	HOSE BIBS	<b>RM</b>	ROOM
<b>ACP</b>	ACOUSTIC CEILING PANEL	<b>HC</b>	HANDICAP	<b>RO</b>	ROUGH OPENING
<b>ACU</b>	AIR CONDITION UNIT	<b>HCMU</b>	HOLLOW CLAY MASONRY UNIT	<b>RV</b>	ROOF VENT
<b>ADJ</b>	ADJUSTABLE	<b>HDWD</b>	HARDWOOD	<b>RL</b>	RAIN WATER LEADER
<b>AFF</b>	ABOVE FINISHED FLOOR	<b>HDWE</b>	HARDWARE	<b>S</b>	SOUTH
<b>ALT</b>	ALTERNATE	<b>HT</b>	HEIGHT	<b>SA</b>	SMOKE ALARM
<b>ALUM</b>	ALUMINUM	<b>HM</b>	HOLLOW METAL	<b>SC</b>	SOLID CORE
<b>APPROX</b>	APPROXIMATELY	<b>HR</b>	HOUR	<b>SCHED</b>	SCHEDULE
<b>ARCH</b>	ARCHITECT, ARCHITECTURAL	<b>HORIZ</b>	HORIZONTAL	<b>SECT</b>	SECTION
<b>BLDG</b>	BUILDING	<b>I.D.</b>	INSIDE DIAMETER	<b>SG</b>	SAFETY GLASS
<b>BLW</b>	BELOW	<b>INSUL</b>	INSULATION	<b>SHT</b>	SHEET
<b>BM</b>	BEAM	<b>INT</b>	INTERIOR	<b>SIM</b>	SIMILAR
<b>B.O.</b>	BOTTOM OF	<b>JAN</b>	JANITOR	<b>SPEC</b>	SPECIFICATION
<b>BRS</b>	BACKER ROD & SEALANT	<b>JT</b>	JOINT	<b>SS</b>	SQUARE
<b>CB</b>	CATCH BASIN	<b>KIT</b>	KITCHEN	<b>S.S.</b>	STAINLESS STEEL
<b>CBB</b>	CEMENT BACKER BOARD	<b>LAB</b>	LABORATORY	<b>STA</b>	STATION
<b>CEM</b>	CEMENT	<b>LAM</b>	LAMINATE	<b>STD</b>	STANDARD
<b>CJ</b>	CONTROL JOINT	<b>LAV</b>	LAVATORY	<b>STL</b>	STEEL
<b>CL</b>	CENTERLINE	<b>LVC</b>	LOCKER	<b>STN</b>	STAIN
<b>CLG</b>	CEILING	<b>LKR</b>	LOCATE	<b>STOR</b>	STORAGE
<b>CLR</b>	CLEAR	<b>LOC</b>	LOCATE	<b>STRUC</b>	STRUCTURE
<b>CO</b>	COLUMN	<b>LT</b>	LIGHT	<b>SOG</b>	SLAB ON GRADE
<b>COL</b>	CONCRETE	<b>LVL</b>	LAMINATED VENEER LUMBER	<b>SUSP</b>	SUSPENDED
<b>COND</b>	CONDITION	<b>M</b>	MEN'S	<b>SYM</b>	SYMMETRICAL
<b>CNT</b>	CONTINUOUS	<b>MATL</b>	MATERIAL	<b>T, TMP</b>	TEMPERED
<b>CPT</b>	CARPET	<b>MAX</b>	MAXIMUM	<b>T&amp;G</b>	TONGUE & GROOVE
<b>CT</b>	CERAMIC TILE	<b>MC</b>	MEDICINE CABINET	<b>TEL</b>	TELEPHONE
<b>CTR</b>	CENTER	<b>MECH</b>	MECHANICAL	<b>TER</b>	TERRAZZO
<b>DBL</b>	DOUBLE	<b>MEMB</b>	MEMBRANE	<b>THK</b>	THICK
<b>DEMO</b>	DEMOLISH	<b>MFR</b>	MANUFACTURER	<b>T.O.</b>	TOP OF
<b>DF</b>	DRINKING FOUNTAIN	<b>MIN</b>	MINIMUM	<b>TS</b>	TUBE STEEL
<b>DIA</b>	DIAMETER	<b>MIR</b>	MIRROR	<b>TV</b>	TELEVISION
<b>DIFF</b>	DIFFUSER	<b>MISC</b>	MISCELLANEOUS	<b>TYP</b>	TYPICAL
<b>DIM</b>	DIMENSION	<b>MO</b>	MASONRY OPENING	<b>UL</b>	UNDERWRITERS' LABORATORIES
<b>DISP</b>	DISPENSER	<b>MTD</b>	MOUNTED	<b>UNO</b>	UNLESS NOTED OTHERWISE
<b>DN</b>	DOWN	<b>MTL</b>	METAL	<b>UTIL</b>	UTILITY
<b>DR</b>	DOOR	<b>MULL</b>	MULLION	<b>VCT</b>	VINYL COMPOSITION TILE
<b>DS</b>	DOWNSPOUT	<b>N</b>	NORTH	<b>VERT</b>	VERTICAL
<b>DTL</b>	DETAIL	<b>NA</b>	NOT APPLICABLE	<b>VEST</b>	VESTIBULE
<b>DW</b>	DISHWASHER	<b>NIC</b>	NOT IN CONTRACT	<b>VIF</b>	VERIFY IN FIELD
<b>E</b>	EAST	<b>NOM</b>	NOMINAL	<b>VTR</b>	VENT THRU ROOF
<b>EA</b>	EACH	<b>NTS</b>	NOT TO SCALE	<b>W</b>	WEST
<b>ECS</b>	EXTERIOR COMPOSITE SIDING	<b>NR</b>	NOT RATED	<b>W/</b>	WITH
<b>EF</b>	EXHAUST FAN	<b>OA</b>	OVERALL	<b>WC</b>	WATER CLOSET
<b>EJ</b>	EXPANSION JOINT	<b>OBSC</b>	OBSOLETE	<b>WD</b>	WOOD
<b>EL</b>	ELEVATION	<b>O.C.</b>	ON CENTER	<b>WF</b>	WIDE FLANGE
<b>ELEC</b>	ELECTRICAL	<b>O.D.</b>	OUTSIDE DIAMETER	<b>WIN</b>	WINDOW
<b>ELEV</b>	ELEVATOR	<b>OFF</b>	OFFICE	<b>W/O</b>	WITHOUT
<b>EMERG</b>	EMERGENCY	<b>OPNG</b>	OPENING	<b>WOM</b>	WALK OFF MAT
<b>EQ</b>	EQUAL	<b>OPP</b>	OPPOSITE	<b>WM</b>	WOMENS
<b>EXP</b>	EXPANSION	<b>PC</b>	PRECAST CONCRETE	<b>WP</b>	WATERPROOFING
<b>EXT</b>	EXTERIOR	<b>PL</b>	PLATE	<b>WR</b>	WATER RESISTANT
<b>FBP</b>	FIBER BOARD PANEL	<b>PLAS</b>	PLASTER	<b>WRB</b>	WATER RESISTIVE BARRIER
<b>FD</b>	FLOOR DRAIN	<b>PLY</b>	PLYWOOD	<b>WSCT</b>	WAINSCOT
<b>FE</b>	FIRE EXTINGUISHER	<b>P.LAM</b>	PLASTIC LAMINATE	<b>WT</b>	WEIGHT
<b>FF</b>	FINISH FLOOR	<b>PNT</b>	PAINT		
<b>FH</b>	FIRE HYDRANT	<b>PNC</b>	POINT OF CONNECTION		
<b>FIN</b>	FINISH	<b>PR</b>	PAIR		
<b>FLR</b>	FLOOR	<b>PSL</b>	PARALLEL STRAND LUMBER		
<b>F.O.</b>	FACE OF	<b>PT</b>	PRESSURE TREATED		
<b>FOIC</b>	FURNISHED BY OWNER, INSTALL BY CONTRACTOR	<b>PTN</b>	PARTITION		
<b>FOIO</b>	FURNISHED BY OWNER, INSTALL BY OWNER	<b>QT</b>	QUARRY TILE		
<b>FR</b>	FIRE RESISTANT				
<b>FS</b>	FLOOR SINK				
<b>FT</b>	FEET				

## DRAFTING SYMBOLS

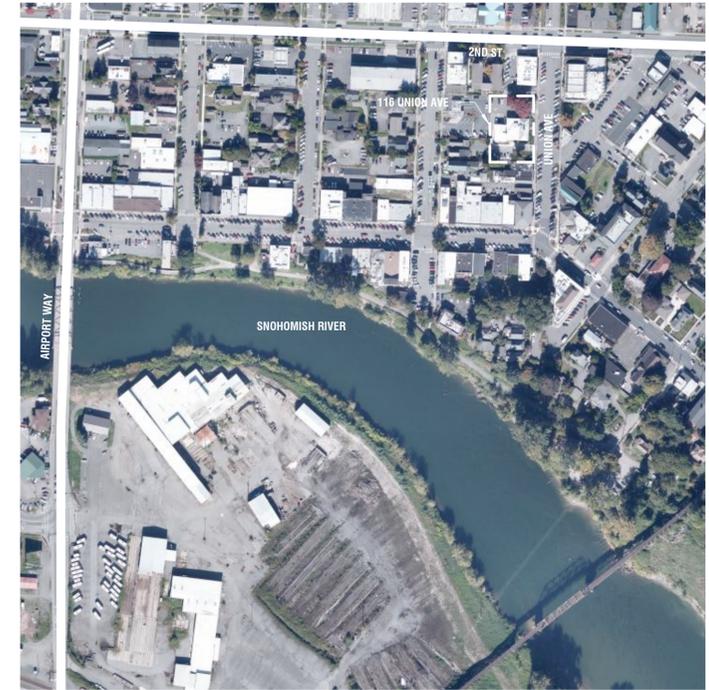
	WALL SECTION
	BLDG SECTION
	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	DETAIL
	NORTH ARROW
	GRID HEAD
	ROOM TAG
	WINDOW & STOREFRONT TAG
	FLOOR, WALL, CEILING OR ROOF TAG
	CASEWORK TAG
	DOOR TAG
	KEY NOTE
	ELEVATION NOTE
	SPOT ELEVATION
	CENTERLINE
	PROPERTY LINE
	FLOOR TRANSITION
	REVISION
	BREAKLINE
	DIMENSION POINT
	ENLARGED DETAIL CALLOUT

## GENERAL NOTES

- REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES AND SYMBOLS.
  - MATERIALS, ASSEMBLIES AND NOTED ITEMS ARE NEW UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL VERIFY CONDITIONS. NOTIFY THE ARCHITECT OF ANY CONDITIONS INCONSISTENT WITH THE INTENT OF THE DRAWINGS PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED.
- CODE:**
- ALL WORK SHALL CONFORM TO APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, WHICH INCLUDE THE MOST CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS, INTERNATIONAL MECHANICAL CODE (IMC), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL FIRE CODE (IFC), AND WASHINGTON STATE ENERGY CODE (WEC).
  - REFER TO WINDOW SCHEDULE FOR WINDOW SIZES AND TYPES. ALL GLAZING WITHIN 18" OF INTERIOR FLOOR, EXTERIOR WALKING SURFACE OR WITHIN 24" OF A DOOR IN ANY POSITION TO BE TEMPERED GLASS UNLESS INDICATED OTHERWISE.
  - MECHANICAL, ELECTRICAL AND PLUMBING PERMITS TO BE APPLIED FOR UNDER SEPARATE APPLICATION BY CONTRACTOR.
  - PROVIDE FIREBLOCKS AND DRAFTSTOPS PER IBC.
  - PROVIDE CLOSURE MEETING THE REQUIREMENT OF GOVERNING FIRE AUTHORITIES BETWEEN FIRE RATED FLOORS, SHAFTS AND BUILDING PARTITIONS AND PENETRATING DUCTS, PIPES, CONDUIT, MECHANICAL, ELECTRICAL, AND OTHER ITEMS.
  - RECESSES LOCATED WITHIN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE REQUIRED FIRE RATING OF THE PARTITION.
  - EXISTING FIRE EXTINGUISHERS AND CABINETS ARE NOT SHOWN ON PLANS. PROTECT EXISTING FIRE EXTINGUISHERS AND CABINETS (RECESSED OR SURFACE MOUNTED) FROM DAMAGE.
- HAZMAT:**
- HAZARDOUS MATERIAL REMOVAL & DISPOSAL: BEFORE BEGINNING ANY DEMOLITION OR OTHER WORK, COMPLY WITH DOCUMENTS PREPARED BY THE OWNER'S HAZARDOUS MATERIALS CONSULTANT. THIS APPLIES TO DEMOLITION, DISPOSAL AND CONSTRUCTION OPERATIONS ASSOCIATED WITH THE PROJECT. THE CONTRACTOR WILL SUSPEND WORK IMMEDIATELY AND NOTIFY THE OWNER IF MATERIALS SUSPECTED OF BEING HAZARDOUS, AND NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED IN THE COURSE OF THE CONTRACTOR'S WORK.
- DEMOLITION:**
- WHERE ITEMS ARE INDICATED ON PLANS TO BE DEMOLISHED, IT SHALL MEAN THE COMPLETE REMOVAL AND DISPOSAL OF THE ITEM INDICATED UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE HAZARDOUS MATERIALS ABATEMENT, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CUTTING AND PATCHING WORK.
- DIMENSIONS:**
- DO NOT SCALE DRAWINGS.
  - VERIFY DIMENSIONS SHOWN ON DRAWINGS. USE ONLY DIMENSIONS INDICATED. PRIOR TO STARTING OR CONTINUING WORK, NOTIFY ARCHITECT OF DISCREPANCIES OR CONDITIONS INCONSISTENT WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
  - DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF STUD, UNLESS OTHERWISE NOTED.
  - VERTICAL DIMENSIONS ARE MEASURED FROM STRUCTURAL SLAB, TOP OF STEEL OR TOP OF SHEATHING, UNLESS NOTED OTHERWISE.
- COORDINATION:**
- COORDINATE ALL OPERATIONS WITH OWNER, SUCH AS AREAS USED FOR MATERIAL STORAGE, ACCESS TO AND FROM THE SITE, TIMING OF WORK AND REQUIREMENTS OF NOISE ORDINANCE. INSTALL DUST AND NOISE BARRIERS AS REQUIRED TO PROTECT EXISTING ADJACENT BUILDINGS AND OCCUPANTS AND TO MAINTAIN AN ENVIRONMENT SUITABLE TO PERMIT CONTINUED OCCUPANCY OF SUBJECT AND ADJACENT BUILDINGS.
  - REVIEW DEMOLITION DRAWINGS. PATCH AND REPAIR ALL EXISTING SURFACES AFFECTED BY DEMOLITION WORK.
  - VERIFY LOCATIONS OF EXISTING UTILITIES. CAP, MARK AND PROTECT AS NECESSARY TO COMPLETE THE WORK.
  - REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PROVIDE ROUGH-INS THROUGH SLABS, BEAMS, WALLS, CEILINGS, AND ROOFS FOR DUCTS, PIPES, CONDUITS, JUNCTION BOXES, CABINETS AND EQUIPMENT. VERIFY SIZE AND LOCATION BEFORE PROCEEDING WITH WORK. COORDINATE WITH INSTALLATION REQUIREMENTS. PATCH AND REPAIR EXISTING SURFACES AS NECESSARY TO COMPLETE WORK.
  - COORDINATE AND PROVIDE REQUIRED PENETRATIONS AND PATCHING WITH INDIVIDUAL SUBCONTRACTORS TO SUIT NEW WORK.
  - PIPING, CONDUITS, DUCTS, ETC. SHALL BE CONCEALED IN WALLS, CHASES, ABOVE SUSPENDED CEILINGS, BELOW FLOORS OR BE FURRED-IN IN ROOMS WITH EXISTING CEILINGS, UNLESS OTHERWISE NOTED. DO NOT CONCEAL PIPING, CONDUITS, DUCTS, ETC. IN ELECTRICAL, MECHANICAL, AND COMMUNICATION ROOMS.
  - CAREFULLY COORDINATE MECHANICAL, ELECTRICAL, AND BUILDING SYSTEM INSTALLATIONS WITH EXISTING STRUCTURE AND BUILDING SYSTEMS.
  - "REMOVE" MEANS TO COMPLETELY AND PERMANENTLY REMOVE FROM THE PROJECT.

## MATERIAL SYMBOLS

	BATT INSULATION		CONCRETE		RIGID INSULATION
	EARTH		GRAVEL		WOOD
	MASONRY		PLYWOOD		STEEL



VICINITY MAP  
1" = 250'



## PROJECT INFORMATION

**PROJECT OWNER:** CITY OF SNOHOMISH  
**PROJECT MANAGER:** SHKS ARCHITECTS  
**PROJECT ADDRESS:** 116 UNION AVE, SNOHOMISH, WA 98290

## ZONING ANALYSIS

- PROJECT ADDRESS:** 116 UNION AVE, SNOHOMISH, WA 98290
- PARCEL NUMBER:** #00579500500400
- LEGAL DESCRIPTION:** SNOHOMISH CITY W P BLK 005 D-00 - LOTS 4-5-6
- LOT AREA:** .53 ACRES
- ZONE:** HISTORIC BUSINESS
- CURRENT USE:** 671 Executive, Legislative & Judicial Functions
- YEAR BUILT:** 1900
- (E) BLDG AREA:** 5,224 SF

## APPLICABLE CODES

- 2015 INTERNATIONAL BUILDING CODE
- 2012 UNIFORM PLUMBING CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2015 WASHINGTON STATE ENERGY CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE

## DESIGN TEAM

**ARCHITECT:** SHKS ARCHITECTS  
1050 NORTH 38TH ST  
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TEL: 206.675.9151  
CONTACT: EMILY ANDREWS  
EMAIL: emilya@shksarchitects.com

**STRUCTURAL ENGINEER:** DEGENKOLB ENGINEERS  
600 UNIVERSITY STREET, SUITE 720  
SEATTLE, WA 98101  
TEL: 206.292.9240  
CONTACT: DAN SLOAT  
EMAIL: dsloat@degenkolb.com

## SHEET INDEX

A0.0	COVER SHEET
A1.0	SITE PLAN
AD2.3	DEMO ROOF PLAN
A2.1	FLOOR PLANS
A2.3	ROOF PLAN
A4.0	ROOF DETAILS
A4.1	ROOF DETAILS
A4.2	ROOF DETAILS
S0.1	GENERAL NOTES
S0.2	SYMBOLS AND ABBREVIATIONS
S2.1	BASEMENT AND FIRST FLOOR PLANS
S2.3	ROOF FRAMING PLAN
S5.1	DETAILS

1050 N. 38th St.  
Seattle, WA 98103  
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www.shksarchitects.com



CITY OF SNOHOMISH  
City Hall Roof Replacement

## BID SET

116 Union Ave, Snohomish, WA 98290

Drawn by:	EEA	
Checked:	MI	
Date:	09.03.2020	
Scale:	As indicated	
Revisions:		
No.	Date	Remarks

NOT FOR CONSTRUCTION

COVER SHEET  
**A0.0**

**PROJECT INFORMATION**

**PROJECT ADDRESS**  
116 UNION AVE  
SNOHOMISH, WA  
98290

**PARCEL NUMBER**  
#00579500500400

**LEGAL DESCRIPTION**  
SNOHOMISH CITY W P BLK 005 D-00 - LOTS 4-5-6

**LOT AREA**  
.53 ACRES; NO CHANGE

**EXISTING BLDG AREA**  
5,224 SF; NO CHANGE

**DESIGN TEAM**

**ARCHITECT**  
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TEL: 206.675.9151  
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**PROJECT OWNER**  
CITY OF SNOHOMISH  
116 UNION AVE  
SNOHOMISH, WA 98290  
TEL: 360.568.3115  
CONTACT: Yoshihiro Monzaki  
EMAIL: monzaki@snohomishWA.gov

**SITE PLAN LEGEND**

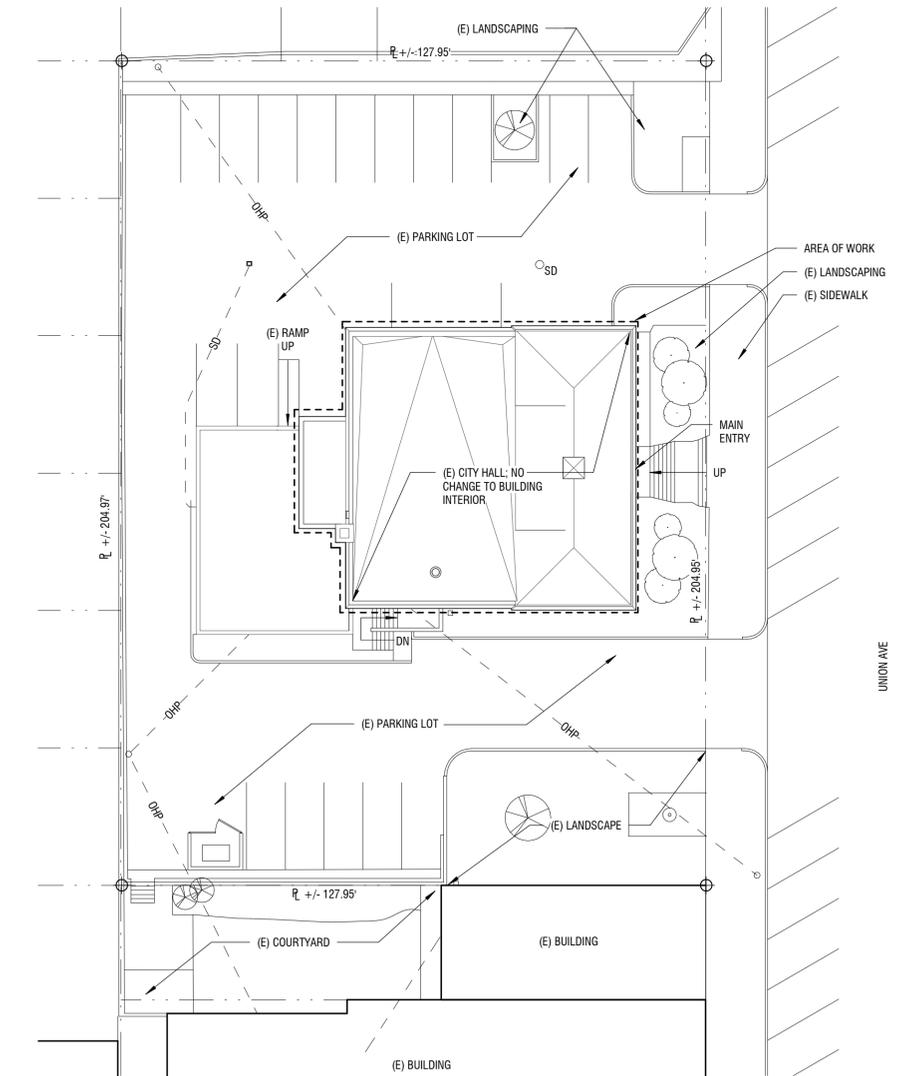
- - - - - PROPERTY LINE
- - - - - AREA OF WORK
- SD- SEWER DRAIN LINE
- OHP- OVERHEAD POWER LINE

**NOTES**  
1. NO PROPOSED SITE WORK, PLAN GIVEN FOR REFERENCE

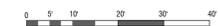
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VICINITY MAP  
1" = 100'



1 SITE PLAN  
1" = 20'-0"



CITY OF  
SNOHOMISH  
City Hall Roof  
Replacement

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116 Union Ave, Snohomish, WA 98290

Drawn by: EEA  
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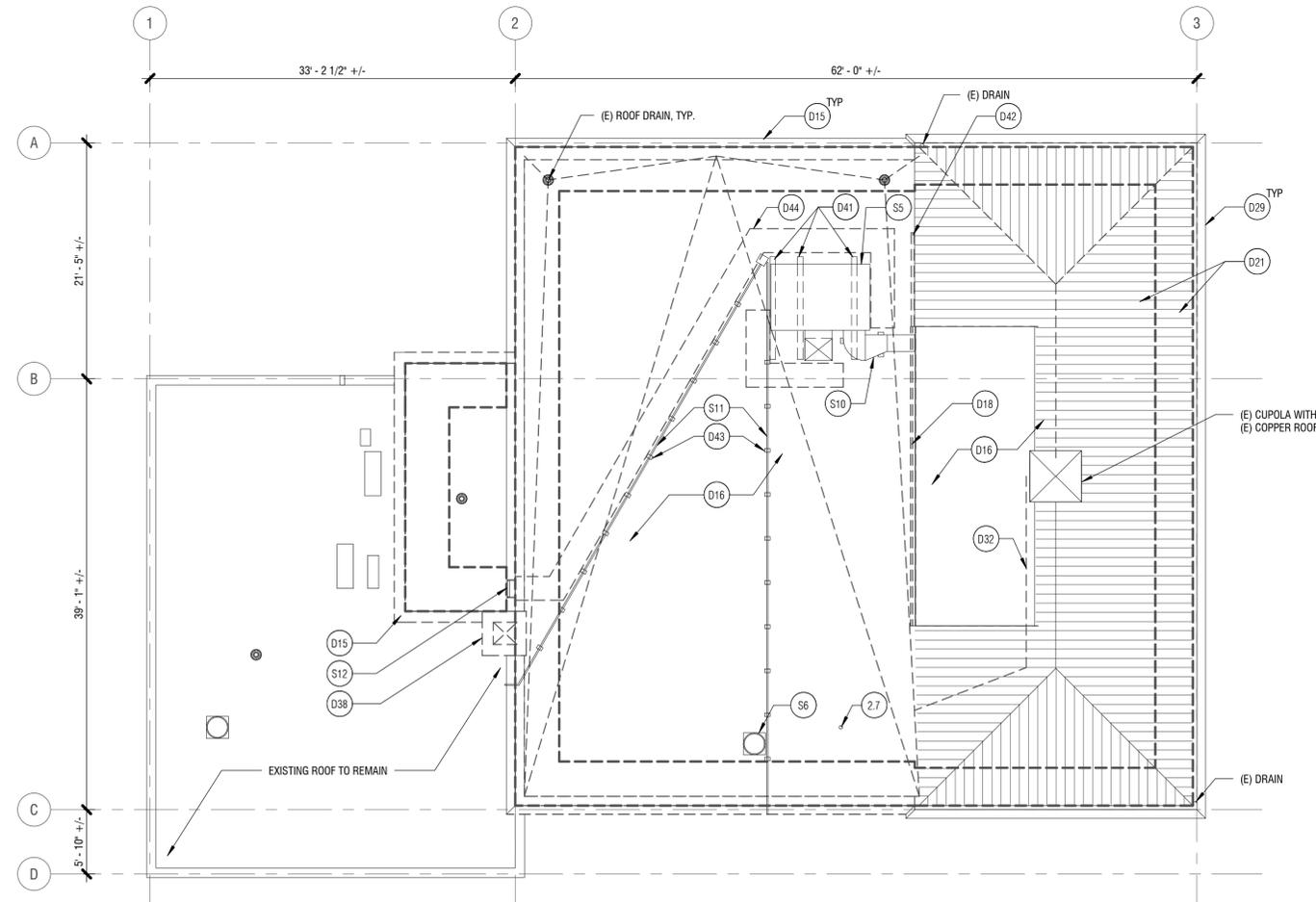
SITE PLAN  
**A1.0**

KEYNOTE LEGEND	
MARK	KEYNOTE TEXT
2.7	EXISTING PIPE PENETRATION
D15	DEMO (E) MTL COPING
D16	DEMO (E) ROOF MEMBRANE ASSEMBLY DOWN TO (E) SHEATHING
D18	DEMO (E) GUTTER
D21	DEMO (E) MTL STANDING SEAM ROOFING
D29	DEMO (E) CORNICE FLASHING
D32	DEMO (E) ELEC CONDUIT, RECEPTACLE AND CAP
D38	DEMO (E) BRICK CHIMNEY TO TOP OF ADJACENT PARAPET WALL
D41	DEMO (E) WD CURBS
D42	DEMO (E) MTL DOWNSPOUT
D43	DEMO (E) WD PIPE/CONDUIT SUPPORTS
D44	DEMO (E) WALKING STRIPS
S5	SALVAGE (E) MECH UNIT AS REQUIRED FOR MTL FLASHING AT CURBS
S6	SALVAGE (E) METAL VENTILATOR AS REQUIRED TO INSTALL ROOFING AT CURB
S10	SALVAGE (E) DUCTWORK AS REQ'D TO REPLACE ROOFING
S11	SALVAGE (E) CONDUIT AND PIPING AS REQ'D TO REPLACE ROOFING
S12	SALVAGE (E) LADDER

**NOTES:**  
 1. SEE SPECIFICATION SECTION 01 21 00 ALLOWANCES FOR SELECTIVE DEMOLITION OF EXISTING WOOD ROOF DECKING NOT OTHERWISE SHOWN ON DRAWINGS, AS NEEDED TO REPLACE MATERIALS FROM MOISTURE-RELATED DAMAGE.

**DEMO LEGEND:**  
 - - - - - DEMOLISH  
 [ ] REMOVE (E) WOOD ROOF DECKING AS REQUIRED FOR STRUCTURAL CONNECTIONS

1050 N. 38th St.  
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1 DEMO ROOF PLAN  
 1/8" = 1'-0"

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 City Hall Roof Replacement

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 116 Union Ave, Snohomish, WA 98290

Drawn by:	Author	
Checked:	Checker	
Date:	09.03.2020	
Scale:	As indicated	
Revisions:		
No.	Date	Remarks

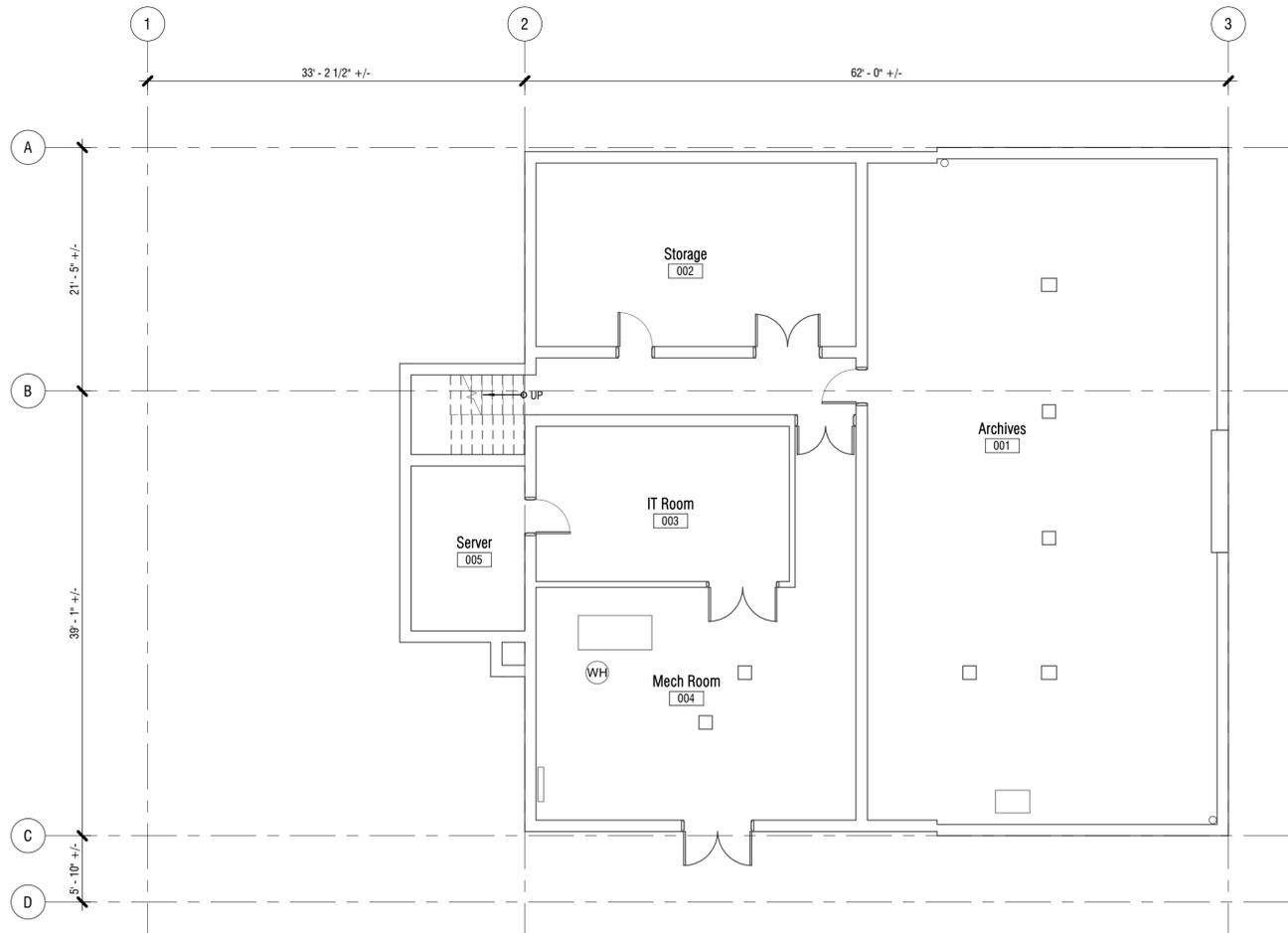
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DEMO ROOF PLAN  
**AD2.3**

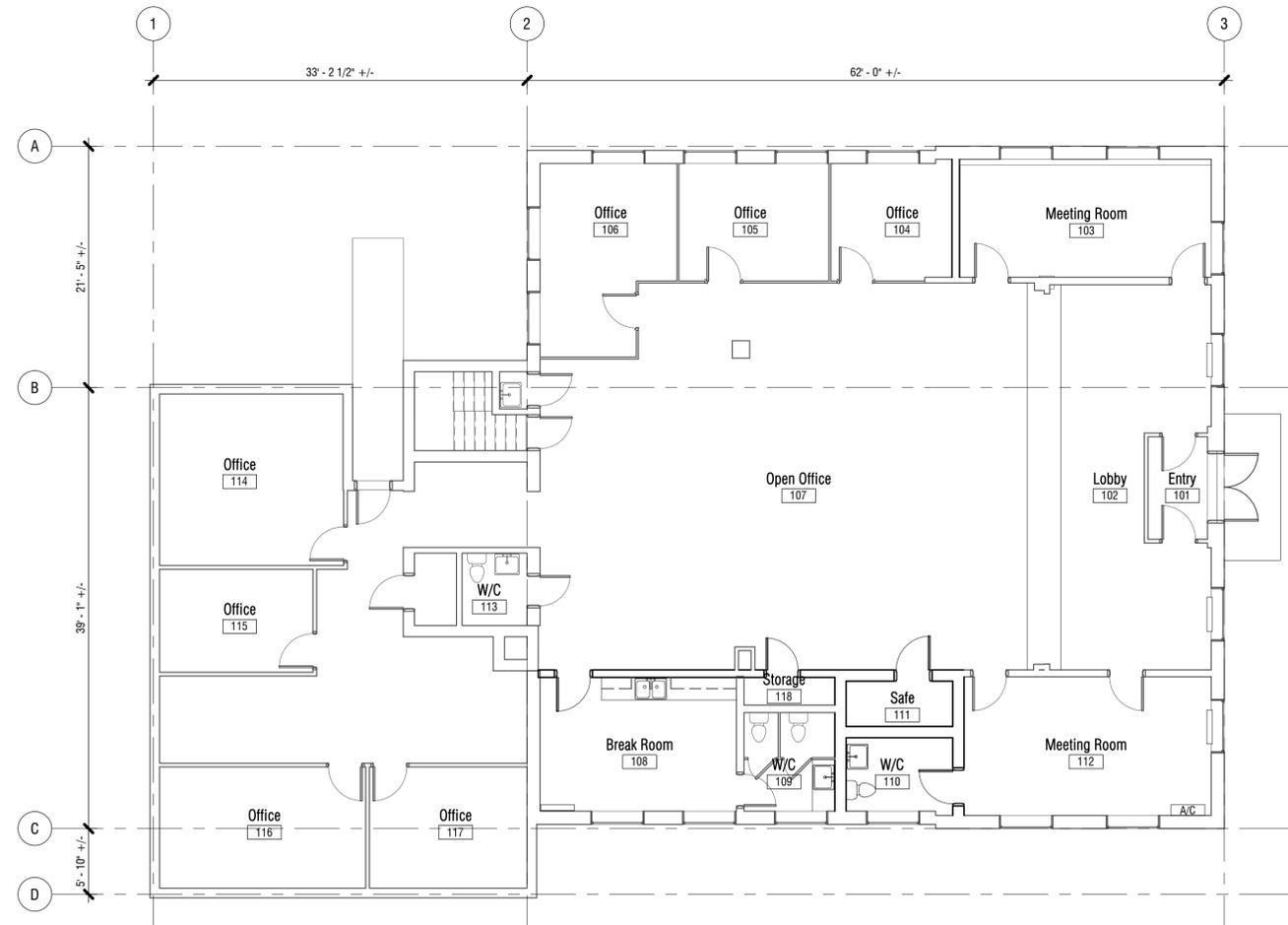


**NOTE:**  
FLOOR PLANS SHOWN FOR REFERENCE ONLY. NO WORK AT INTERIOR OF BUILDING.

**PLAN LEGEND**  
— (E) WALL



**1 (E) BASEMENT**  
1/8" = 1'-0"



**2 (E) FIRST FLOOR PLAN**  
1/8" = 1'-0"



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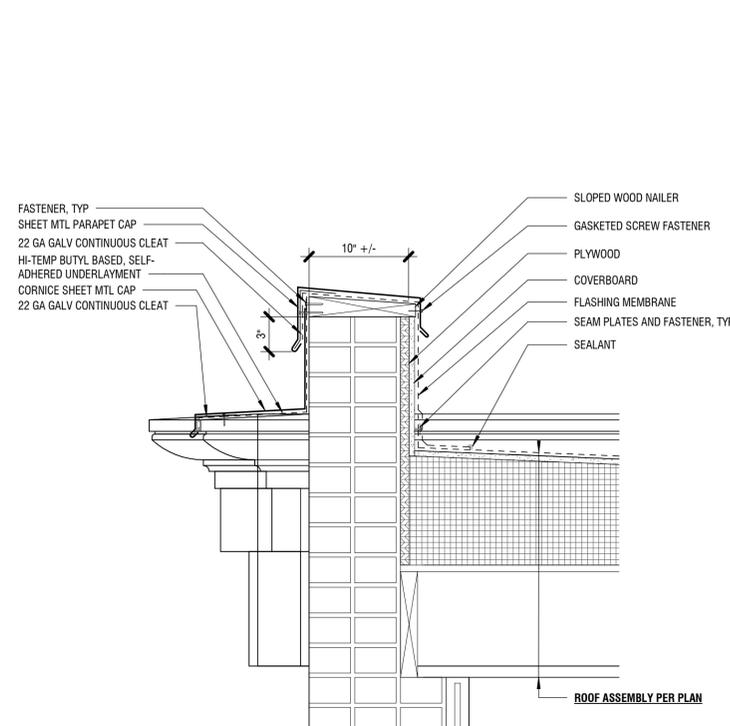
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Date: 09.03.2020  
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Revisions:  
No. Date Remarks

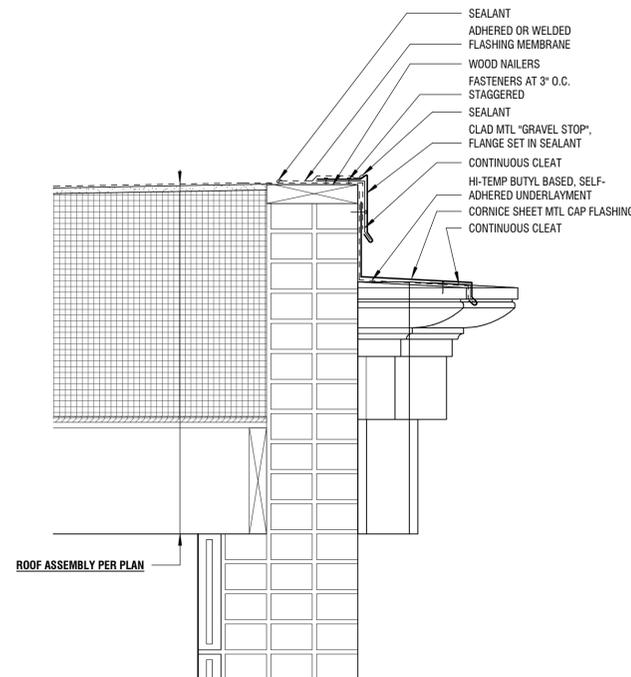
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FLOOR PLANS  
**A2.1**

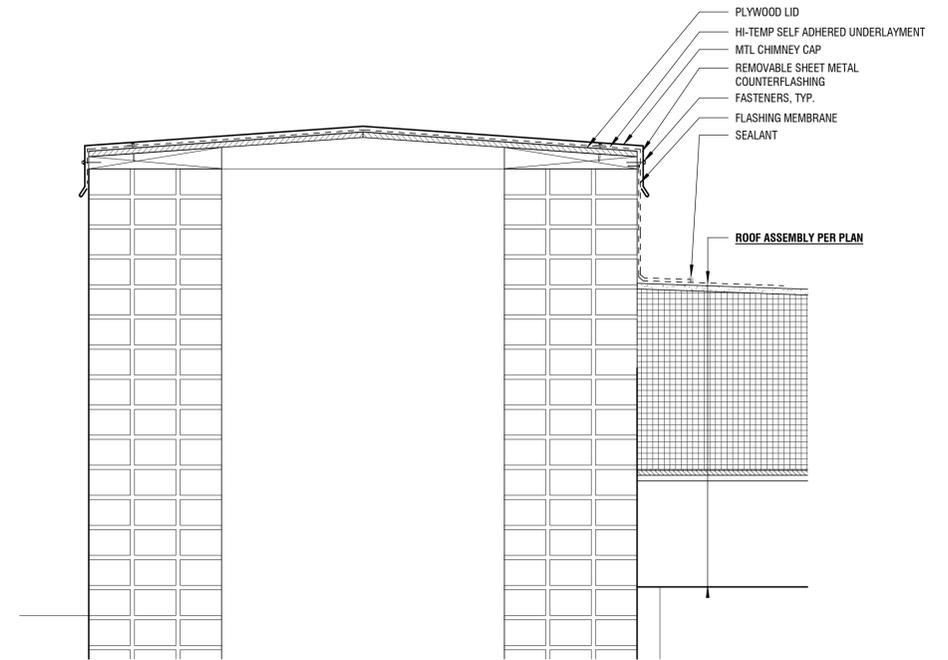




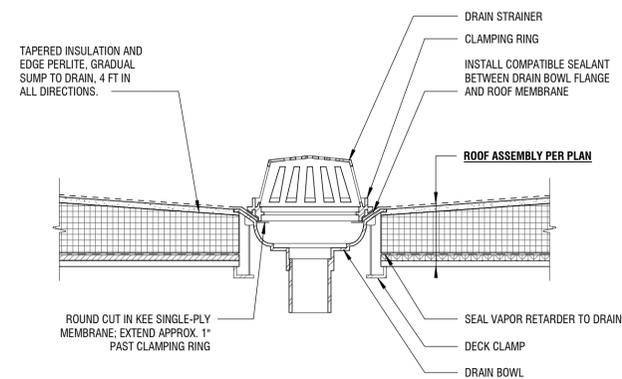
1 PARAPET AND CORNICE CAP  
1 1/2" = 1'-0"



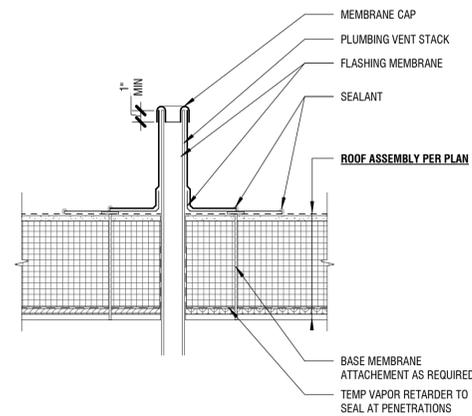
2 PARAPET AT SOUTH FACE  
1 1/2" = 1'-0"



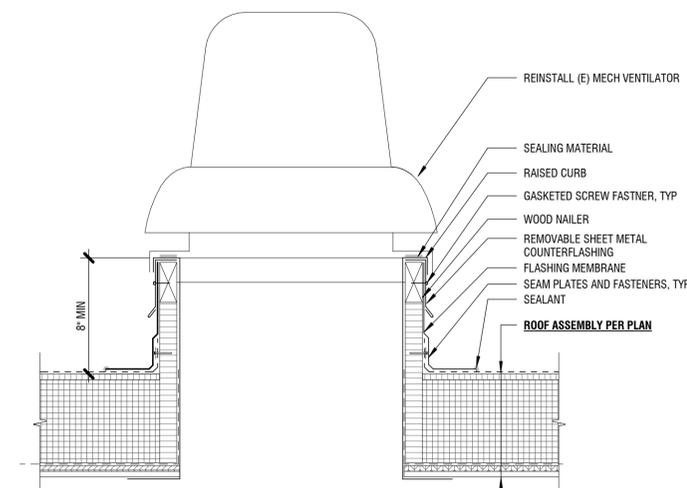
3 CHIMNEY CAP  
1 1/2" = 1'-0"



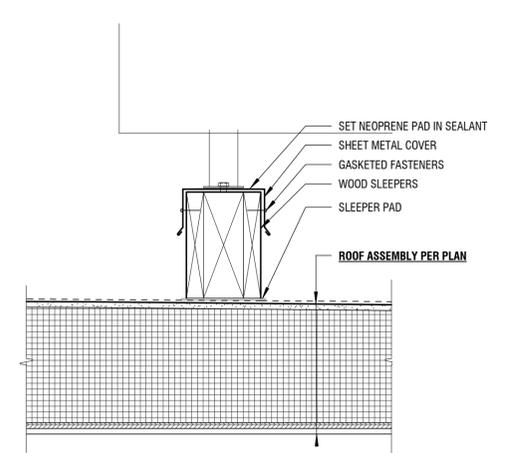
4 ROOF DRAIN  
1 1/2" = 1'-0"



5 TYP PIPE PENETRATION  
1 1/2" = 1'-0"



6 TYP ROOF VENT  
1 1/2" = 1'-0"



7 TYP MECHANICAL CURB  
1 1/2" = 1'-0"

CITY OF SNOHOMISH  
City Hall Roof Replacement

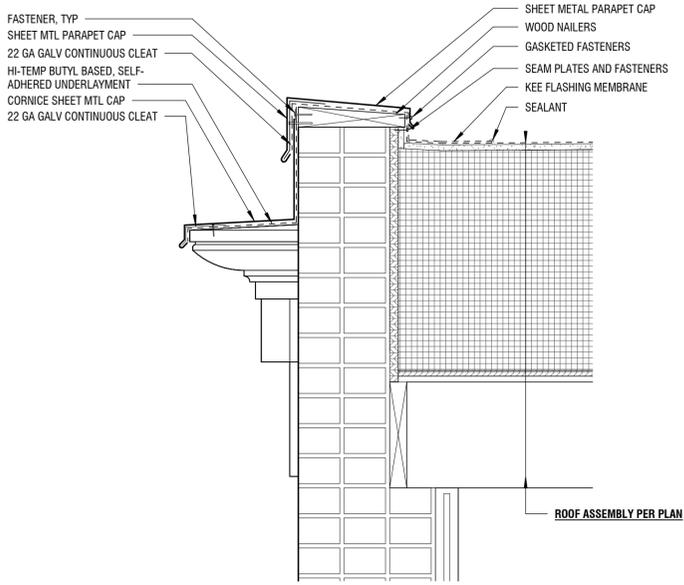
BID SET

116 Union Ave, Snohomish, WA 98290

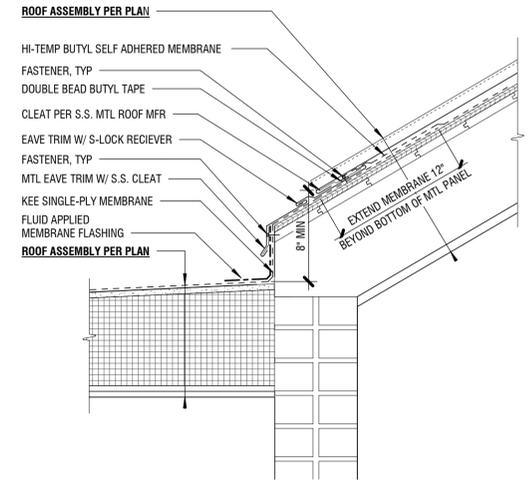
Drawn by: \_\_\_\_\_ Author  
Checked: \_\_\_\_\_ Checker  
Date: 09.03.2020  
Scale: 1 1/2" = 1'-0"  
Revisions: No. Date Remarks

NOT FOR CONSTRUCTION

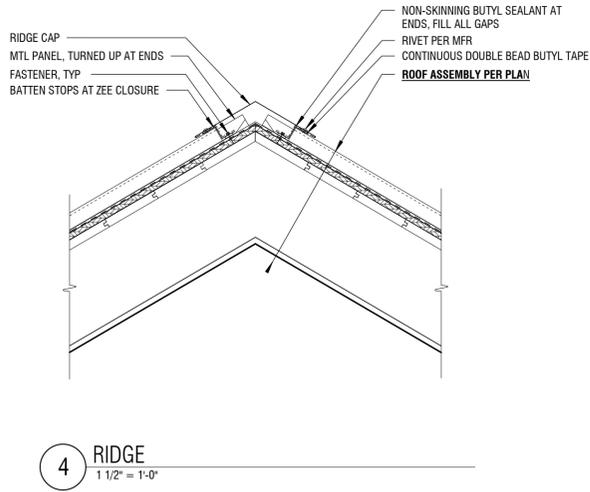
ROOF DETAILS  
A4.0



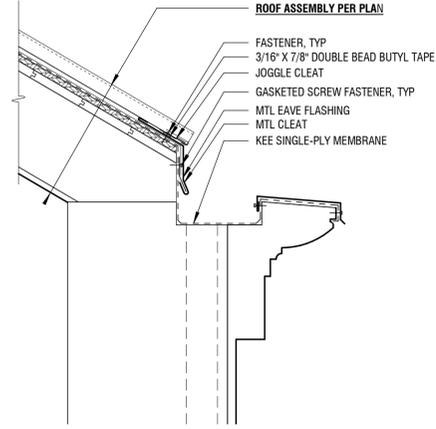
**1** MEMBRANE AT LOW PARAPET  
1 1/2" = 1'-0"



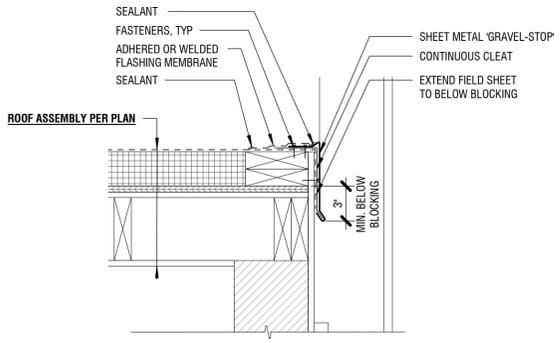
**2** MEMBRANE TO SS ROOF  
1 1/2" = 1'-0"



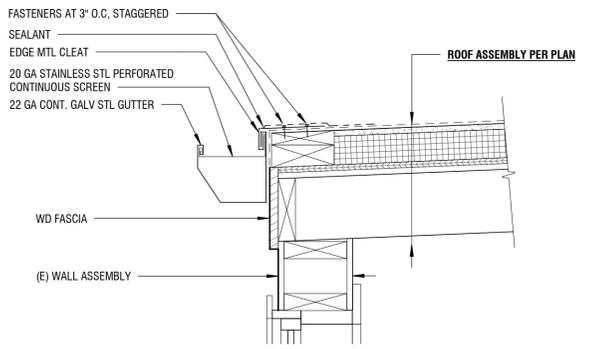
**4** RIDGE  
1 1/2" = 1'-0"



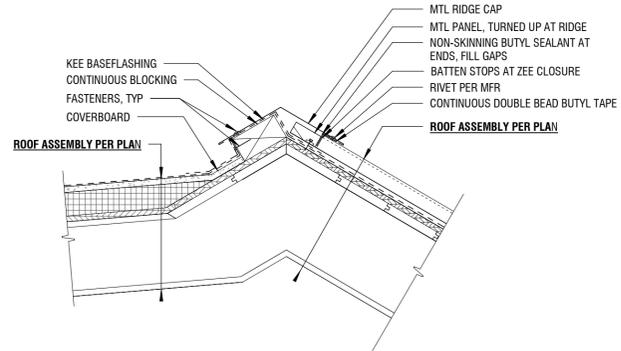
**3** GUTTER AT S.S. ROOF  
1 1/2" = 1'-0"



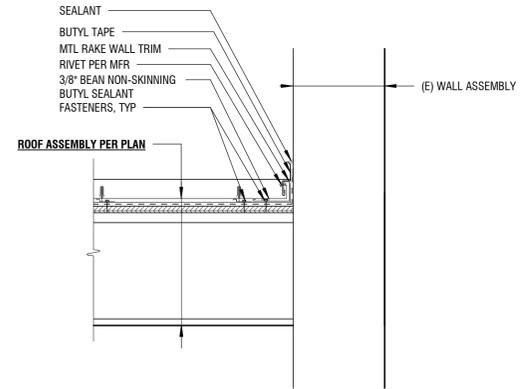
**9** RAKE AT CLERESTORY  
1 1/2" = 1'-0"



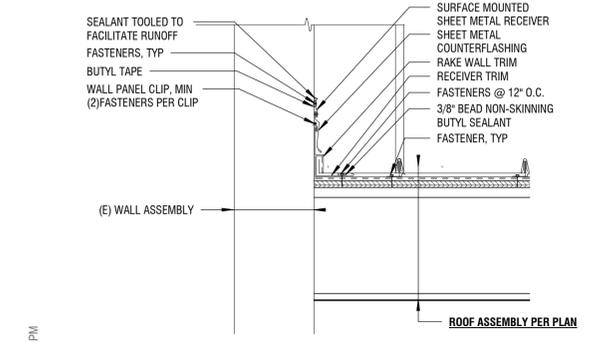
**7** GUTTER AT CLERESTORY  
1 1/2" = 1'-0"



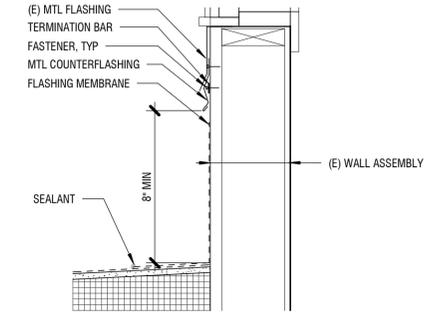
**8** RIDGE AT CLERESTORY  
1 1/2" = 1'-0"



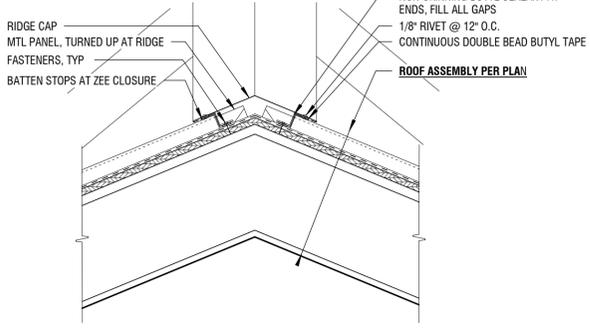
**11** CUPOLA AT RIDGE  
1 1/2" = 1'-0"



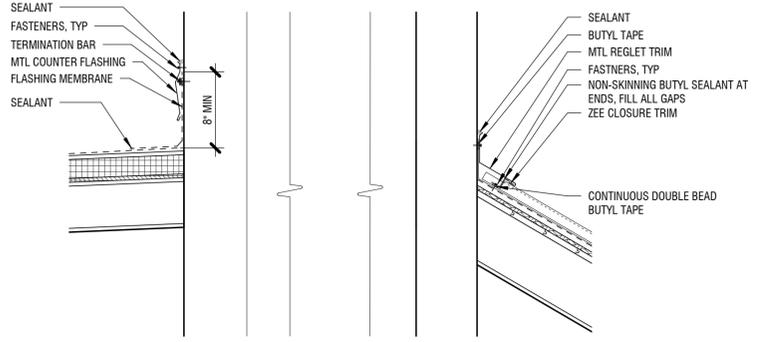
**10** SIDEWALL AT CLERESTORY  
1 1/2" = 1'-0"



**6** CLERESTORY AT MEMBRANE ROOF  
1 1/2" = 1'-0"



**5** HIP  
1 1/2" = 1'-0"



**12** CUPOLA  
1" = 1'-0"

CITY OF SNOHOMISH  
City Hall Roof Replacement

BID SET

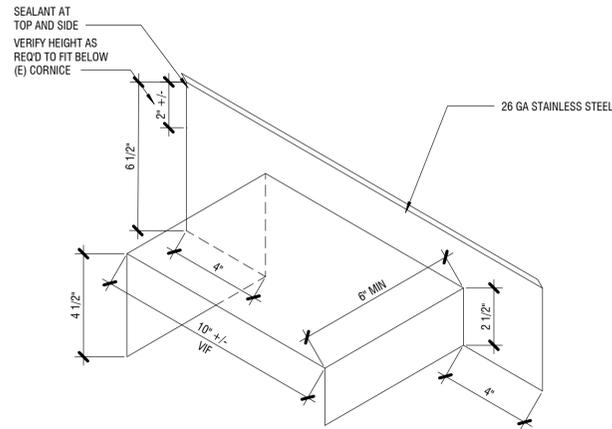
116 Union Ave, Snohomish, WA 98290

Drawn by:	Author
Checked:	Checker
Date:	09.03.2020
Scale:	As indicated
Revisions:	Remarks
No. Date	

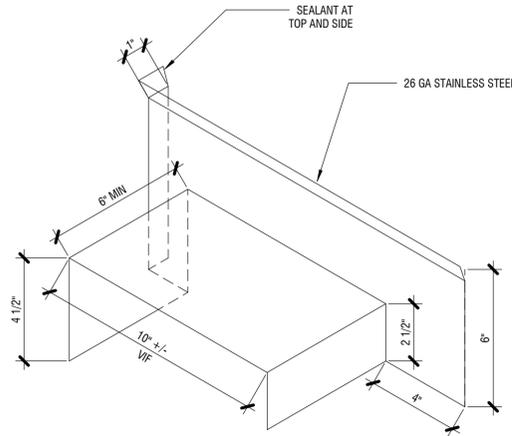
NOT FOR CONSTRUCTION

ROOF DETAILS  
**A4.1**

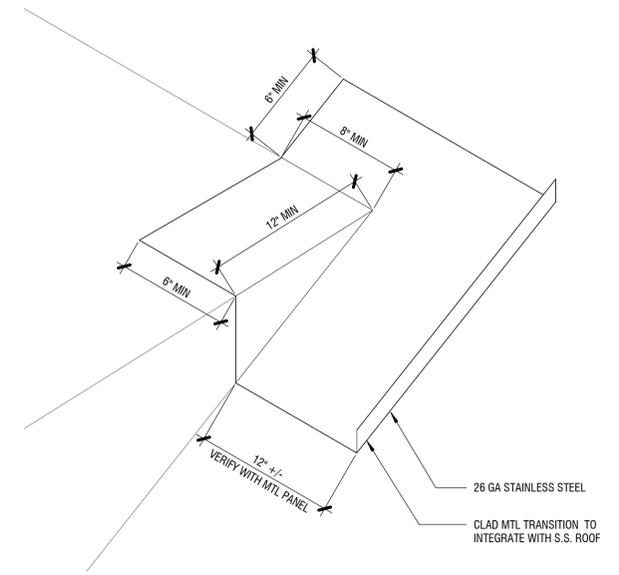
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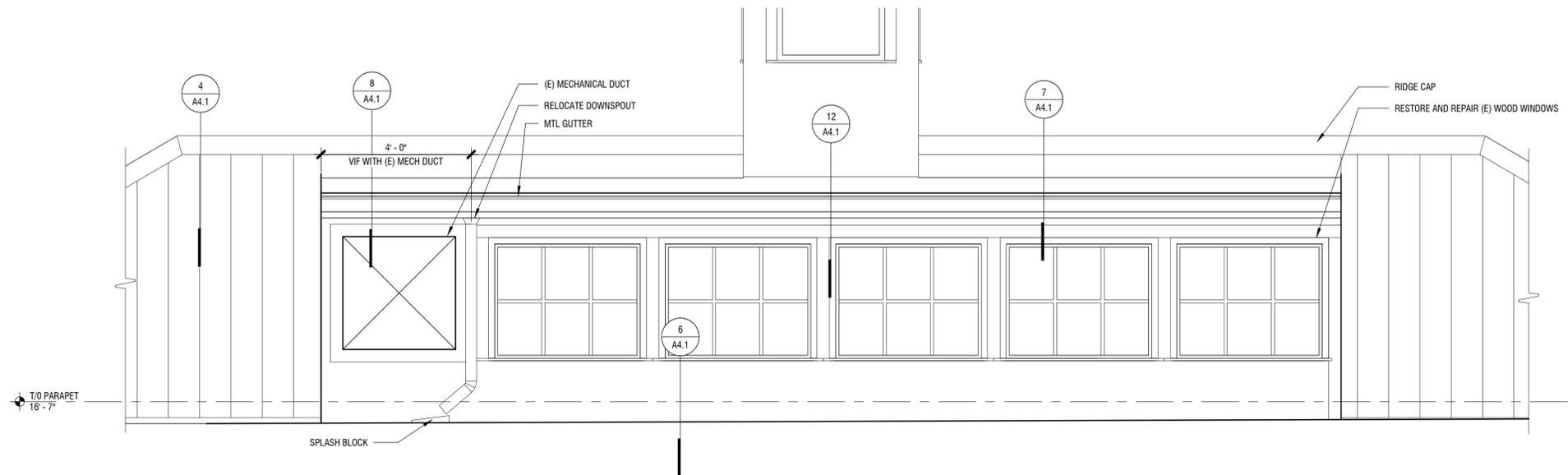
2 PARAPET TO BRICK WALL SADDLE  
3" = 1'-0"



3 PARAPET TO CHIMNEY SADDLE  
3" = 1'-0"



4 SS TO MEMBRANE SADDLE  
1 1/2" = 1'-0"



1 Clerestory Window Elevation  
1/2" = 1'-0"

CITY OF SNOHOMISH  
City Hall Roof Replacement

BID SET

116 Union Ave, Snohomish, WA 98290

Drawn by: \_\_\_\_\_ Author  
Checked: \_\_\_\_\_ Checker  
Date: 09.03.2020  
Scale: As indicated

Revisions:  
No. Date Remarks

NOT FOR CONSTRUCTION

ROOF DETAILS  
A4.2

**GENERAL NOTES:**

- I. GENERAL**
- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2015 EDITION OF THE WASHINGTON BUILDING CODE, WITH WASHINGTON AMENDMENTS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
  - REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
  - DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER.
  - DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
  - DO NOT SCALE THE DRAWINGS. CONTRACT TO VERIFY ALL DIMENSIONS AND FRAMING CONDITIONS IN FIELD.
  - PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHO IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE OWNER WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
  - INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER.
  - REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR, ROOF AND WALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL AND PLUMBING TRADES. SUBMIT FINAL SIZE AND LOCATION REQUIREMENTS OF OPENINGS TO THE OWNER FOR REVIEW.
  - REFERENCE DATUM FOR THE ELEVATIONS IS FINISH FIRST FLOOR.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.
- II. SUBMITTALS**
- SUBMIT REQUIRED SUBMITTALS TO OWNER FOR REVIEW.
  - CONCRETE REINFORCING STEEL:
    - SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
  - CAST-IN-PLACE CONCRETE: MIX DESIGNS PREPARED, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON FOR EACH CLASS OF CONCRETE. INCLUDE RESULTS OF SLUMP, SHRINKAGE AND COMPRESSION TESTS USED TO ESTABLISH MIX PROPORTIONS AND CERTIFIED MATERIAL CERTIFICATES FOR EACH COMPONENT OF THE MIX.
    - PROPOSED CONSTRUCTION JOINT AND CONTROL JOINT LOCATIONS FOR REVIEW
    - PRODUCT DATA FOR CURING MATERIALS.
    - PRODUCT DATA FOR NON-SHRINK GROUT.
  - STRUCTURAL STEEL:
    - SHOP DRAWINGS PRIOR TO FABRICATION IN ACCORDANCE WITH AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
    - SUBMIT WELDING PROCEDURE SPECIFICATION (WPS) PER AWS D1.1 FOR EACH TYPE OF WELD TO BE USED ON THE PROJECT AND PRODUCT DATA FOR WELDING ELECTRODES, CLEARLY IDENTIFYING LOCATIONS FOR USE OF ELECTRODES.
  - MECHANICAL ANCHORS:
    - PRODUCT DATA FOR EACH TYPE OF ANCHOR USED.
  - ADHESIVE ANCHORS:
    - PRODUCT DATA FOR EACH TYPE OF ADHESIVE ANCHORING SYSTEM USED.
  - PREFABRICATED WOOD PRODUCTS:
    - FRAMING SHOP DRAWINGS AND CALCULATIONS STAMPED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF WASHINGTON TO THE OWNER AND THE GOVERNING JURISDICTION FOR REVIEW.
    - MANUFACTURER'S PRODUCT DATA AND ICC-ESR REPORT.

- III. STRUCTURAL STEEL**
- FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC 360, AISC 303 AND AISC 340. WELDED CONNECTIONS TO CONFORM TO AWS D1.1 AND D1.8
  - STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:
 

SECTIONS	TYPE
<b>ROLLED SHAPES:</b>	
WIDE FLANGES	ASTM A992
CHANNELS, ANGLES, & OTHER	ASTM A36
<b>PLATES:</b>	
COLUMN BASE PLATES	ASTM A572, GR 50
BRACE GUSSET PLATES	ASTM A572, GR 50
BEAM SHEAR CONNECTION PLATES	ASTM A572, GR 50
COLUMN CONTINUITY PLATES	ASTM A572, GR 50
BEAM STIFFENER PLATES	ASTM A36
EDGE OF DECK BENT PLATE	ASTM A36
OTHER	ASTM A572, GR 50
STEEL PIPE	ASTM A53 GRADE B
COLD FORMED STRUCTURAL TUBING (HSS)	ASTM A500 GRADE B
STAINLESS STEEL SHAPES, PLATES & BARS	ASTM A276, TYPE 304L
BOLTS	ASTM F1554, GRADE A325X, F1852X
MACHINE BOLTS	ASTM A307, GRADE A
STAINLESS STEEL BOLTS	ASTM A193 B8M, CLASS 1
ANCHOR RODS	ASTM F1554, GR55 W/ WELDABLE SUPPLEMENT S1
ALL-THREAD ROD AND THRU BOLTS	ASTM A36
STAINLESS STEEL ALL-THREAD ROD	ASTM A193 B8M CLASS 2
WELDED THREADED STUDS	ASTM A108, GRADE 1015 TO 1020
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
STAINLESS STEEL NUTS	ASTM A194 GR8M
HARDENED WASHERS FOR BOLTS	ASTM F436
UNHARDENED FLAT WASHERS	ASTM F844, ANSI B18.22.1
STAINLESS STEEL WASHERS	ASTM A276, TYPE 304
BEVELED WASHERS	ANSI B18.23.1
  - HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780. HOT-DIP GALVANIZE ASTM F1554 RODS IN ACCORDANCE WITH ASTM F2329.
  - SHOP PRIME AND PAINT STRUCTURAL STEEL NOT HOT-DIP GALVANIZED.
  - IMMEDIATELY AFTER CLEANING, SHOP PRIME STRUCTURAL STEEL IN ACCORDANCE WITH AISC 303 AND THE MANUFACTURER'S RECOMMENDATIONS. DO NOT SHOP PRIME OR PAINT MEMBERS OR PORTIONS OF MEMBERS IN CONTACT WITH CONCRETE, SURFACES THAT ARE TO BE FIELD WELDED OR FIRE-PROOFED, OR FAYING SURFACES AT SLIP CRITICAL BOLTED CONNECTIONS. STEEL SURFACES THAT ARE TO BE FIELD WELDED ARE TO BE FIELD PRIMED AND PAINTED.
- IV. MECHANICAL ANCHORS**
- EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB-TZ (ICC-ESR-1917), SIMPSON STRONG-BOLT 2 (ICC-ESR-3037) OR DEWALT POWER-STUD+ SD2 (ICC-ESR-2502), UNLESS SPECIFICALLY NOTED OTHERWISE.
  - SCREW ANCHORS: HILTI HUS-EZ (ICC-ESR-3027), SIMPSON STRONG-TIE TITEN-HD (ICC-ESR-2713), OR DEWALT SCREW-BOLT + (ICC-ESR-3899)
  - ALL EMBEDMENT DEPTHS NOTED ON DRAWINGS ARE EFFECTIVE EMBEDMENT PER MANUFACTURER.
  - INSTALL ANCHORS IN ACCORDANCE WITH LATEST ICC-ESR REPORT AND MANUFACTURER INSTRUCTIONS.
  - PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
  - IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
  - LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
  - ANCHORS REQUIRE PERIODIC SPECIAL INSPECTION AND ARE TO BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
  - TEST 25% OF ANCHORS TO THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE OR RECOMMENDED TORQUE IN ICC-ESR REPORT.
- V. ADHESIVE ANCHORS AND DOWELS**
- ANCHORS AND DOWELS INSTALLED INTO CONCRETE: HILTI HIT-RE-500-V3 (ICC-ESR-3814), SIMPSON STRONG-TIE SET-3G (ICC-ESR-4057) OR DEWALT PURE 110+ (ICC-ESR-3298). ALL EMBEDMENT DEPTHS NOTED ON DRAWINGS ARE EFFECTIVE EMBEDMENT PER MANUFACTURER.
  - ANCHORS AND DOWELS INSTALLED INTO CONCRETE MASONRY UNITS (CMU): HILTI HIT-HY 270 (ICC-ESR-4143), SIMPSON STRONG-TIE SET-XP (IAPMO USES ER-265) OR DEWALT AC100+ GOLD (ICC-ESR-3200).
  - THE TESTING LABORATORY IS TO PERFORM TENSION TESTS ON 25% OF ANCHORS AND DOWELS INSTALLED INTO CONCRETE TO THE FOLLOWING TEST LOADS:

ROD DIA OR BAR SIZE	CMIN	TEST LOAD (LBS)	
		ANCHOR LOCATED > CMIN & < 12" FROM EDGE	ANCHOR LOCATED ≥ 12" FROM EDGE
3/8", #3	2"	1,300	1,600
1/2", #4	2 1/2"	2,000	3,400
5/8", #5	3"	2,800	4,200
3/4", #6	4"	3,700	5,000
7/8", #7	4 1/2"	3,700	5,000
1", #8	5"	4,800	6,100

- ANCHORS AND DOWELS INSTALLED INTO UNREINFORCED BRICK MASONRY (URM): HILTI-HY 270 (ICC-ESR-4144), SIMPSON STRONG-TIE SET (ICC-ESR-1772), OR DEWALT AC100+ GOLD (ICC-ESR-4105). USE SCREENS AS SPECIFIED BY THE MANUFACTURER.
  - THE TESTING LABORATORY IS TO PERFORM TENSION TESTS ON 25% OF ANCHORS AND DOWELS TO THE FOLLOWING TEST LOADS:
 

ROD DIA OR BAR SIZE	EMBEDMENT	TEST LOAD	BASE MATERIAL
3/4"	10"	3000 #	URM
  - ANCHORS: ASTM A36 THREADED RODS WITH ASTM A563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS TO USE ASTM A563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS.
  - REBAR DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL.
  - INSTALL ANCHORS IN ACCORDANCE WITH LATEST ICC-ESR REPORT AND MANUFACTURER INSTRUCTIONS.
  - IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
  - LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.
- V. ROUGH CARPENTRY**
- FRAMING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.) OR WESTERN LUMBER GRADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (W.W.P.A.). USE LUMBER OF THE FOLLOWING GRADES:
 

MEMBER	MOISTURE CONTENT	WOOD/GRADE
SILLS	19%	DF #1 PRESSURE OR PRESERVATIVE TREATED OR FOUNDATION GRADE REDWOOD
STUDS	19%	DF #2
JOISTS, PLANKS AND PLATES	15%	DF #1
BEAMS, 5" & WIDER	GREEN	DF SELECT STRUCTURAL
BEAMS, 4" & NARROWER	GREEN	DF #1
POSTS, 6X6 & LARGER	GREEN	DF SELECT STRUCTURAL
POSTS, 4X6 & SMALLER	19%	DF #1
SLEEPER	19%	DF #1 PRESSURE OR PRESERVATIVE TREATED
BLOCKING & BRIDGING	15%	DF #2
PLYWOOD BLOCKING	19%	DF #1
BACKING, STRIPPING AND FURRING	19%	CONSTRUCTION
  - WOOD FRAMING SIZES ON DRAWINGS ARE STATED IN TERMS OF STANDARD NOMINAL SIZES.
  - PANEL SHEATHING: PROVIDE WOOD STRUCTURAL PANELS WITH THE APPROPRIATE TRADEMARK OF APA-THE ENGINEERED WOOD ASSOCIATION AND MEET THE REQUIREMENTS OF THE VOLUNTARY PRODUCT STANDARDS PS-1 OR PS-2 AND APA PRP-108 PERFORMANCE STANDARD, AND THE FOLLOWING UNLESS OTHERWISE NOTED:
    - EXPOSURE 1.
    - GRADE: STRUCT 1.
    - ROOF/FLOOR SPAN RATING: 32/16 MINIMUM.
    - PLYWOOD PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM. PLYWOOD TO BE CC GRADE WHERE EXPOSED TO WEATHER; CD GRADE ELSEWHERE.
  - ROUGH HARDWARE:
    - NAILS: COMMON WIRE NAILS, STANDARD LENGTHS UON. USE HOT-DIPPED ZINC COATED GALVANIZED NAILS FOR EXTERIOR INSTALLATIONS AND WHEN PENETRATING PRESSURE TREATED OR FIRE-RETARDANT LUMBER.
    - BOLTS AND THREADED RODS: ASTM A307, SQUARE OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE [MALLEABLE IRON WASHERS; ASTM F844 WASHER] UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD. AT SILL PLATES USE 3"x3"x1/4" MINIMUM PLATE WASHERS.
    - LAG SCREWS: ASTM A307. USE ASTM F844 WASHERS UNDER HEAD WHEN IN CONTACT WITH WOOD.
    - SCREWS: ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED WOOD SCREWS AT STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS.
    - MISCELLANEOUS STEEL: ASTM A36.
    - BOLTS, NUTS, WASHERS, STRAPS AND OTHER HARDWARE EXPOSED TO THE WEATHER TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
    - FRAMING CLIPS, SHEET METAL STRAPS, ETC.: SIMPSON STRONG-TIE. PROVIDE Z-MAX COATING WHERE ATTACHED TO PRESERVATIVE TREATED LUMBER.
  - NAILING:
    - PANEL SHEATHING:
      - AT FLOOR AND ROOF SHEATHING, USE RING SHANK NAILS WITH SHANK DIAMETER EQUAL TO SPECIFIED COMMON NAIL DIAMETER. USE SMOOTH SHANK NAILS AT WALLS.
      - GLUE FLOOR SHEATHING AT ALL POINTS OF CONTACT
    - PROVIDE MINIMUM NAILING PER TABLE 2304.10.1 OF THE [CBC, IBC] UON.
    - AIR-DRIVEN NAILS TO BE FULL-HEADED NAILS. DO NOT OVERDRIVE NAILS.
    - PANEL SHEATHING:
      - AT FLOOR AND ROOF SHEATHING, USE RING SHANK NAILS. USE SMOOTH SHANK NAILS AT WALLS.
      - GLUE FLOOR SHEATHING AT ALL POINTS OF CONTACT.
    - CONNECT WOOD MEMBERS PER TABLE 2304.10.1 OF THE IBC, WHERE NAILING NOT NOTED ON THE DRAWINGS.
  - BOLT AND SCREW INSTALLATION:
    - DRILL BOLT HOLES A MAXIMUM OF 1/16 INCH LARGER IN DIAMETER THAN THE BOLT NOMINAL DIAMETER.
    - DRILL PRE-BORED LEAD HOLES FOR WOOD SCREWS AS FOLLOWS.
      - LEAD HOLE FOR THE SHANK: 7/8 TIMES THE DIAMETER OF THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
      - LEAD HOLE FOR THREADED PORTION: 7/8 TIMES THE DIAMETER OF THE SCREW AT THE ROOT OF THE THREAD.
      - INSERT THE SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.
    - DRILL PRE-BORED LEAD HOLES FOR LAG SCREWS AS FOLLOWS.
      - LEAD HOLE FOR THE SHANK: EQUAL TO DIAMETER OF THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
      - LEAD HOLE FOR THREADED PORTION: 60 PERCENT OF THE NOMINAL LAG SCREW DIAMETER
      - INSERT LAG SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.
  - INSTALL SOLID BLOCKING BETWEEN JOISTS AT ENDS AND OVER SUPPORTS. PROVIDE 2 INCH BY 3 INCH CROSS BRIDGING, METAL BRIDGING, OR SOLID BLOCKING BETWEEN JOISTS IN SPANS EQUALLY SPACED 8 FEET ON CENTER MAXIMUM AND WHERE INDICATED.

**VI. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS**

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM TESTS AND INSPECTION.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC AND PER THE CITY OF SNOHOMISH TESTING AND INSPECTION FORM.
  - STRUCTURAL STEEL: 1705.2 AND 1705.12.1
  - MECHANICAL ANCHORS: 1705.3 AND ICC-ESR
  - ADHESIVE ANCHORS: 1705.3 AND ICC-ESR
  - ROUGH CARPENTRY: 1705.5, 1705.11.1 & 1705.12.2
  - ENGINEERED LUMBER: 1705.5, 1705.11.1 & 1705.12.2
  - SEISMIC FORCE RESISTING SYSTEM (SFRS): 1705.12
- NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING STRUCTURAL OBSERVATIONS:
  - FOUNDATIONS
    - REINFORCEMENT
  - WOOD FRAMING
    - SHEAR WALLS AND HOLD-DOWNS
    - DIAPHRAGMS AND COLLECTORS
- DESIGN CRITERIA
  - APPLICABLE CODE: 2015 INTERNATIONAL BUILDING CODE WITH WASHINGTON AMENDMENTS.
  - GRAVITY LOADS:
    - DEAD LOADS - VARY BASED ON ACTUAL BUILDING AND EQUIP OPERATING WEIGHTS
    - LIVE LOADS:
      - ROOF 25 PSF (REDUCIBLE)
      - FLOOR VARIES
  - LATERAL/SEISMIC FORCE RESISTING SYSTEM (SFRS):
 

THE BUILDING IS UNDERGOING THE FIRST PHASE OF A SEISMIC RETROFIT. THE BUILDING WAS EVALUATED IN ACCORDANCE WITH THE SPECIAL PROCEDURES IN ASCE 41-13 USING THE LIFE SAFETY PERFORMANCE LEVEL. THE DEFICIENCIES ADDRESSED BY THIS RETROFIT ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 IBC WITH WASHINGTON AMENDMENTS, APPENDIX A1. THIS PHASE OF THE RETROFIT INCLUDES IN PLANE AND OUT OF PLANE ANCHORAGE OF THE URM WALLS TO THE ROOF AND ROOF RESHEATHING. THE REMAINING RETROFIT ELEMENTS REQUIRED BY APPENDIX A1 WILL BE DESIGNED IN A FUTURE PHASE.
  - SEISMIC DESIGN:
    - R = 1.5 FOR URM SHEAR WALLS
    - SS = 1.218
    - SDS = 0.974
    - SEISMIC IMPORTANCE FACTOR (IE): 1.0
    - RISK CATEGORY: II
    - SITE CLASS: D
    - SEISMIC DESIGN CATEGORY: D
    - RHO = 1.0
    - ANALYSIS PROCEDURE: LINEAR DYNAMIC
    - BASE LEVEL USED IN ANALYSIS: GROUND
  - DESIGN TEAM
 

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DAN SLOAT	PROJECT ENGINEER
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CITY OF SNOHOMISH  
City Hall Seismic Upgrades

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Checked:                      KPS  
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Scale:                      1/2" = 1'-0"

Revisions:  
No.                      Date                      Remarks

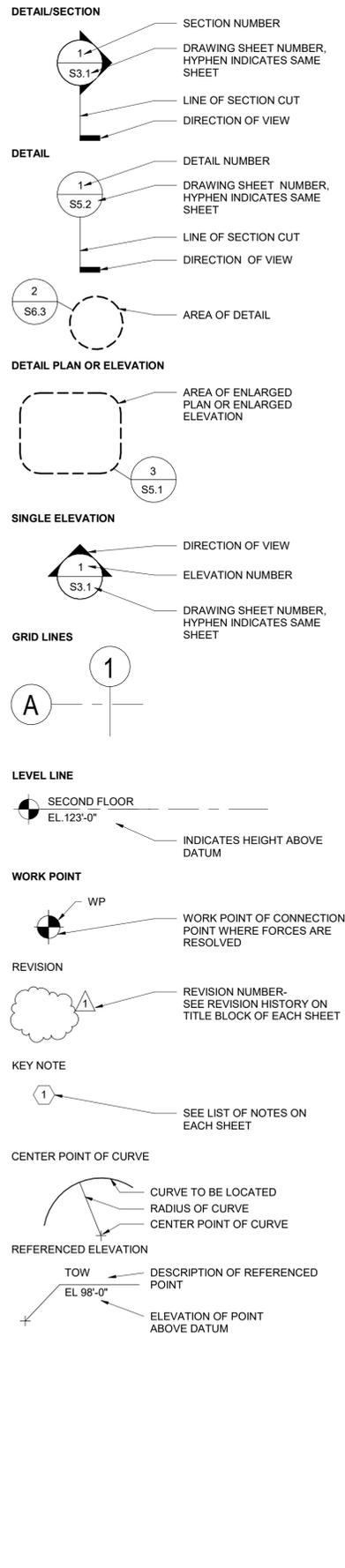
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GENERAL NOTES  
**S0.1**

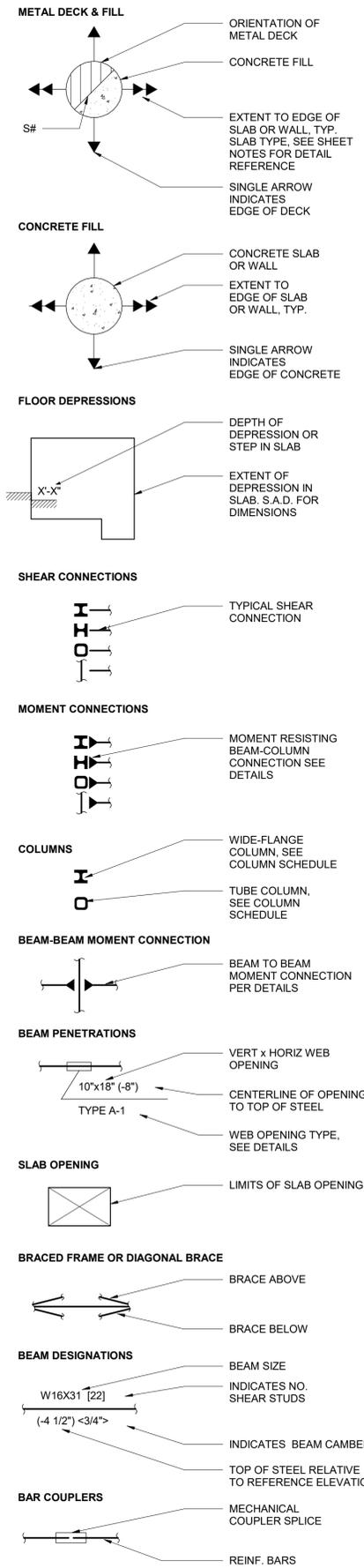
ABBREVIATIONS

(E)	EXISTING	FP	FIREPROOF	SS	STAINLESS STEEL
(N)	NEW	FRMG	FRAMING	STAG	STAGGER or STAGGERED
#	NUMBER	FS	FAR SIDE	STD	STANDARD
&	AND	FT	FOOT OR FEET	STIF	STIFFENER
@	AT	FTG, FTGS	FOOTING, FOOTINGS	STIR	STIRRUP OR STIRRUPS
Ø	DIAMETER OR ROUND	GA	GAUGE	STL	STEEL
ld	DEVELOPMENT LENGTH	GALV	GALVANIZED	STRUCT	STRUCTURAL
ldh	HOOK DEVELOPMENT LENGTH	GL	GLU-LAM	SUB	SUBSTITUTE
ls	LAP SPLICE LENGTH	GLB	GLU-LAM BEAM	SUSP	SUSPENDED
AA	ADHESIVE ANCHOR	GR	GRADE	SYMM	SYMMETRICAL
AB	ANCHOR BOLT	GRND	GROUND	T&B	TOP AND BOTTOM
ABV	ABOVE	GYP	GYPSUM	T&G	TONGUE and GROOVE
AC	ASPHALT CONCRETE	HDG	HOT DIPPED GALVANIZED	T.O.	TOP OF
ADDL	ADDITIONAL	HDR	HEADER	THK	THICK
ADJ	ADJACENT	HK, HKS	HOOK, HOOKS	THRD	THREADED
AGGR	AGGREGATE	HORIZ, (H)	HORIZONTAL	THRU	THROUGH
ALT	ALTERNATE	HP	HIGH POINT	TN	TOE NAIL
ALUM	ALUMINUM	HSB	HIGH STRENGTH BOLTS	TOC	TOP OF CONCRETE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HSS	HOLLOW STRUCTURAL SECTION	TOF	TOP OF FOOTING
APPROX	APPROXIMATE	HT	HEIGHT	TOS	TOP OF STEEL
AR	ANCHOR ROD	ID	INSIDE DIAMETER/DIMENSION	TOW	TOP OF WALL
ARCH	ARCHITECTURAL / ARCHITECT	INFO	INFORMATION	TR	TREAD
ASPH	ASPHALT	JH	JOIST HANGER	TYP	TYPICAL
ASTM	AMERICAN SOCIETY FOR TESTING and MATERIALS	JST, JSTS	JOIST, JOISTS	UON	UNLESS OTHERWISE NOTED
AWG	AMERICAN WIRE GAUGE	JT	JOINT	URM	UNREINFORCED MASONRY
B. O.	BOTTOM OF	KO	KNOCK-OUT	VENT	VENTILATE
BF	BOTH FACES	L	ANGLE	VERT. (V)	VERTICAL
BF	BRACED FRAME	LEV	LEVEL	VIF	VERIFY IN FIELD
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL	W or WF	WIDE FLANGE
BLK, BLKG	BLOCK OR BLOCKING	LLV	LONG LEG VERTICAL	W/	WITH
BLW	BELOW	LOC	LOCATION	W/O	WITHOUT
BM, BMS	BEAM, BEAMS	LONGIT	LONGITUDINAL	WD	WOOD
BN	BOUNDARY NAILING	LP	LOW POINT	WP	WORK POINT
BOF	BOTTOM OF FOOTING	LT	LIGHT	WS	WOOD SCREW
BOT	BOTTOM	LWC	LIGHTWEIGHT CONCRETE	WT	WEIGHT/TEE SECTION
BRBF	BUCKLING RESTRAINED BRACE FRAME	MAX	MAXIMUM	WWM	WELDED WIRE MESH
BRG	BEARING	MB	MACHINE BOLT	X HVY	EXTRA HEAVY
BS	BOTH SIDES	MECH	MECHANICAL	X STR	EXTRA STRONG
BSMT	BASEMENT	MEP	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS	XX HVY	DOUBLE EXTRA HEAVY
BTWN	BETWEEN	MEZZ	MEZZANINE	XX STR	DOUBLE EXTRA STRONG
BW	BOTH WAYS	MF	MOMENT FRAME		
C	CHANNEL	MFR	MANUFACTURER		
CIP	CAST IN PLACE	MIN	MINIMUM		
CJ	CONSTRUCTION JOINT	MISC	MISCELLANEOUS		
CJP	COMPLETE JOINT PENETRATION	MTD	MOUNTED		
CL	CENTERLINE	MTL	METAL		
CLG	CEILING	NF	NEAR FACE		
CLR	CLEAR	NIC	NOT IN CONTRACT		
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL (DIAMETER)		
COL	COLUMN	NS	NEAR SIDE		
CONC	CONCRETE	NTS	NOT TO SCALE		
CONN	CONNECTION	NWC	NORMAL WEIGHT CONCRETE		
CONSTR	CONSTRUCTION	OBF	ORDINARY BRACED FRAMES		
CONT	CONTINUOUS	OC	ON CENTER		
CSK	COUNTERSINK	OD	OUTSIDE DIAMETER		
CTR	CENTER	OPH	OPPOSITE HAND		
d	PENNY (NAIL SIZE)	OPNG	OPENING		
DBA	DEFORMED BAR ANCHOR	OPP	OPPOSITE		
DBL	DOUBLE	P-T	POST-TENSION		
DEMO	DEMOLITION	PC, PCS	PIECE, PIECES		
DET, DETS	DETAIL, DETAILS	PCC	PRECAST CONCRETE		
DIA, DIAM	DIAMETER	PERP	PERPENDICULAR		
DIAG	DIAGONAL	PJP	PARTIAL JOINT PENETRATION		
DIM, DIMS	DIMENSION, DIMENSIONS	PL	PLATE		
DIST	DISTANCE	PLYWD	PLYWOOD		
DK, DKG	DECK OR DECKING	PT	PRESSURE TREATED		
DN	DOWN	PTN	PARTITION		
DO	DITTO	R	RADIUS		
DP	DEEP	REBAR	REINFORCING BAR		
DS	DIAGONAL SHEATHING	REF	REFERENCE		
DSA	DIVISION OF THE STATE ARCHITECT	REINF	REINFORCING		
DWG, DWGS	DRAWING, DRAWINGS	REQD	REQUIRED		
DWL, DWLS	DOWEL, DOWELS	REV	REVISION		
EA	EACH	RFG	ROOFING		
EBF	ECCENTRIC BRACE FRAME	RO	ROUGH OPENING		
EF	EACH FACE	RSJ	ROLLED STEEL JOIST		
EJ	EXPENSION JOINT	S. A. D.	SEE ARCHITECTURAL DOCUMENTS/DRAWINGS		
EL	ELEVATION	S. M. D.	SEE MECHANICAL DRAWINGS		
ELEC	ELECTRICAL	SCHED	SCHEDULE		
ELEV	ELEVATOR	SECT	SECTION		
EMBED	EMBEDMENT	SEOR	STRUCTURAL ENGINEER OF RECORD		
EN	EDGE NAILING	SFRS	SEISMIC FORCE RESISTING SYSTEM		
EOS	EDGE OF SLAB	SHT	SHEET		
EQ	EQUAL	SHTG	SHEATHING		
EQUIP	EQUIPMENT	SIM	SIMILAR		
ES	EACH SIDE	SL	SLOPE		
EW	EACH WAY	SMF	SPECIAL MOMENT FRAME		
EXCAV	EXCAVATION	SMS	SHEET METAL SCREW		
EXP	EXPANSION	SOG	SLAB ON GRADE		
EXT	EXTERIOR	SP	STRUCTURAL PLYWOOD		
FDN	FOUNDATION	SPEC, SPECS	SPECIFICATION, SPECIFICATIONS		
FF	FAR FACE	SPSW	SPECIAL PLATE SHEAR WALL		
FIN	FINISH	SQ	SQUARE		
FLG	FLANGE				
FLR, FLRS	FLOOR, FLOORS				
FN	FIELD NAILING				
FO	FACE OF				
FOC	FACE OF CONCRETE				
FOS	FACE OF STUD				

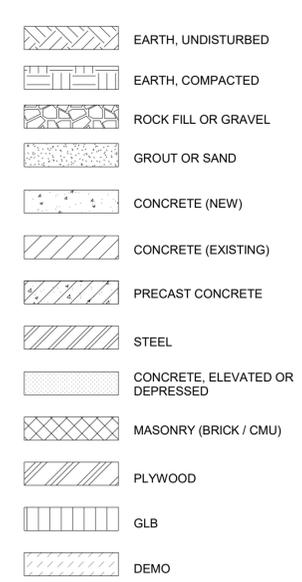
REFERENCE SYMBOLS



PLAN SYMBOLS



MATERIAL SYMBOLS



SHEET INDEX	
Sheet Number	Sheet Name
S0.1	GENERAL NOTES
S0.2	SYMBOLS AND ABBREVIATIONS
S2.1	BASEMENT AND FIRST FLOOR PLANS
S2.3	ROOF FRAMING PLAN
S5.1	DETAILS

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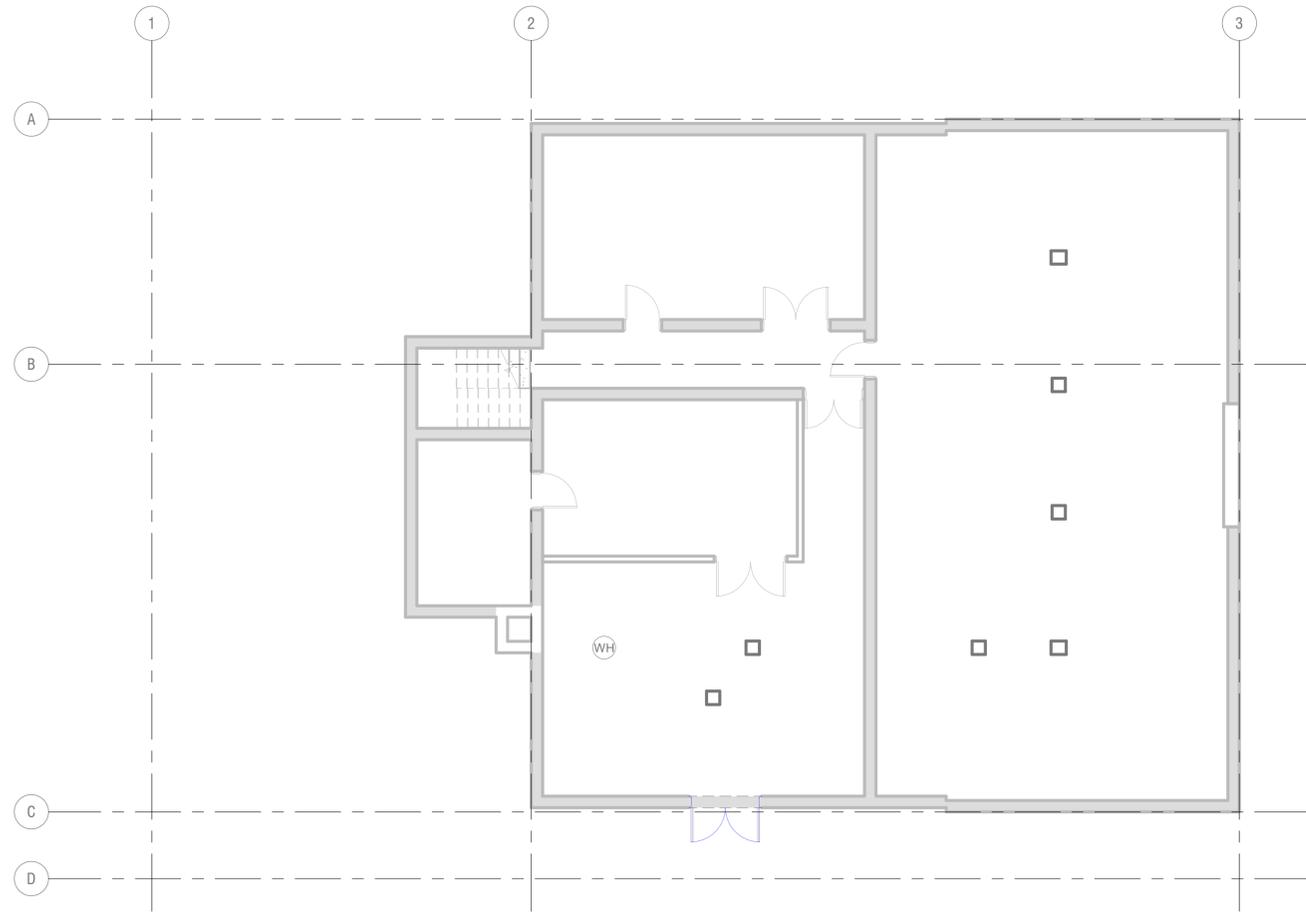
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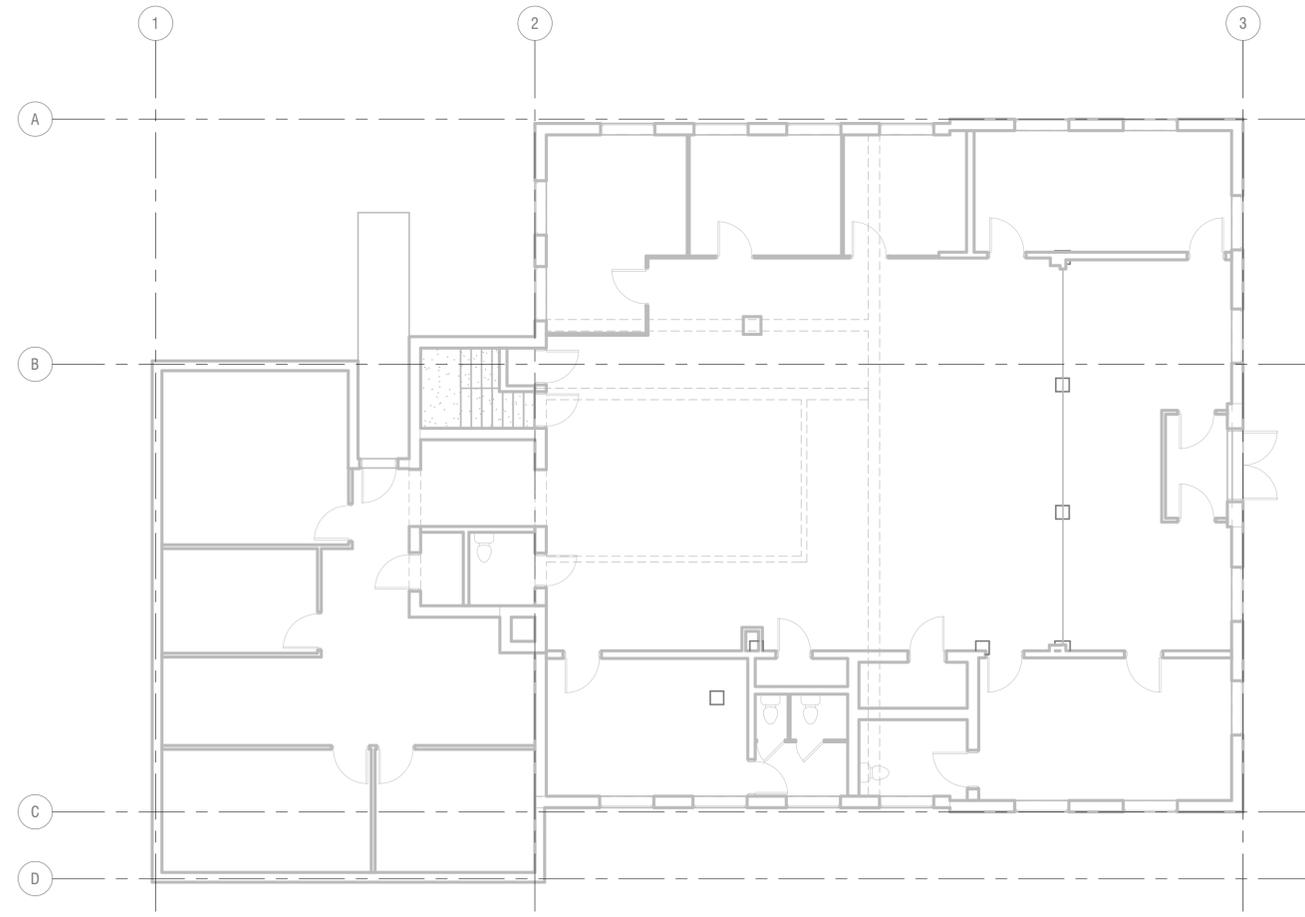
SYMBOLS AND ABBREVIATIONS  
**S0.2**

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206.261.5040 P/E/CM



**1 BASEMENT**  
1/8" = 1'-0"



**2 FIRST FLOOR**  
1/8" = 1'-0"

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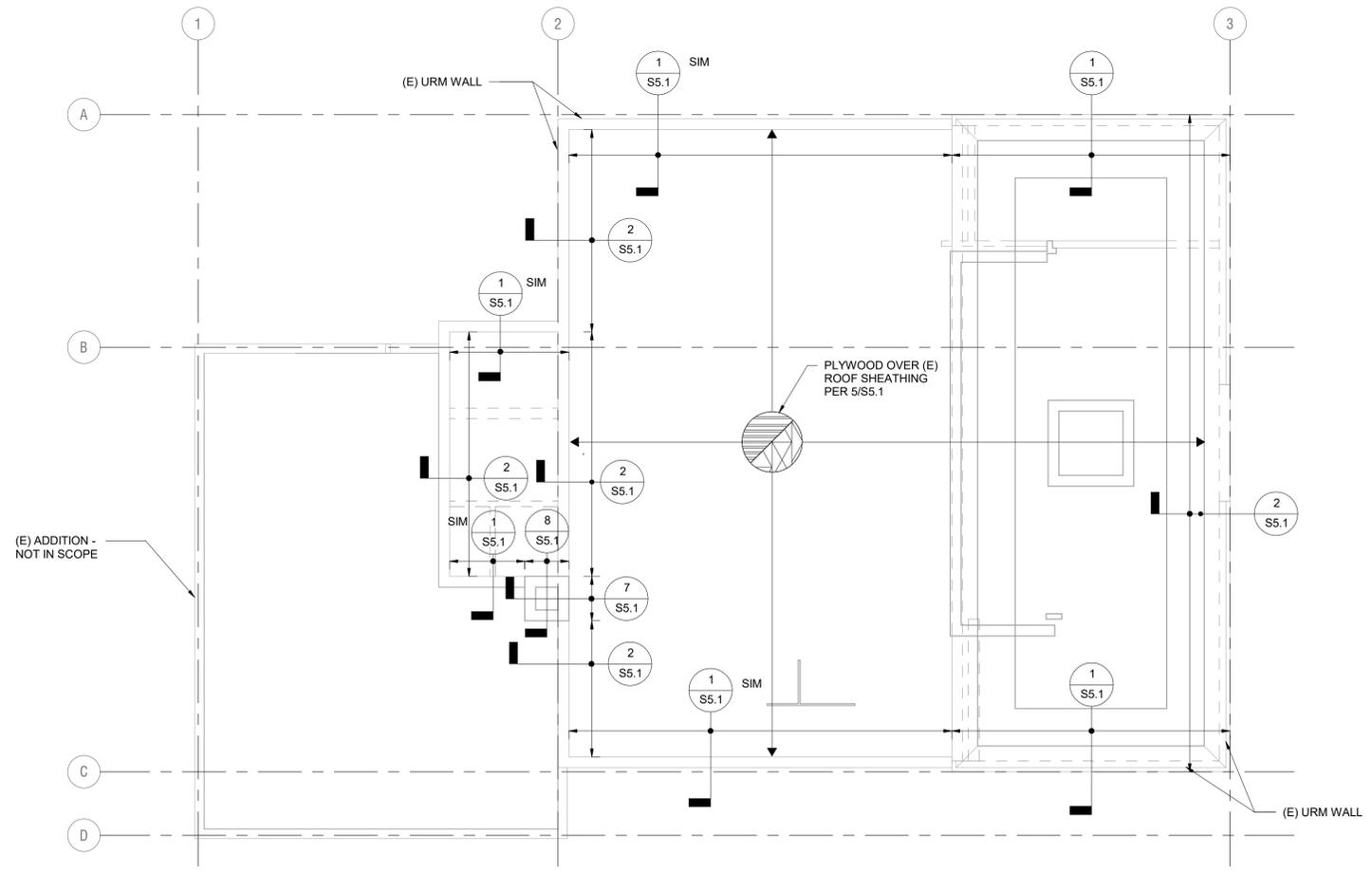
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BASEMENT AND  
FIRST FLOOR  
PLANS  
**S2.1**

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(E) ADDITION - NOT IN SCOPE

1 ROOF PLAN  
1/8" = 1'-0"

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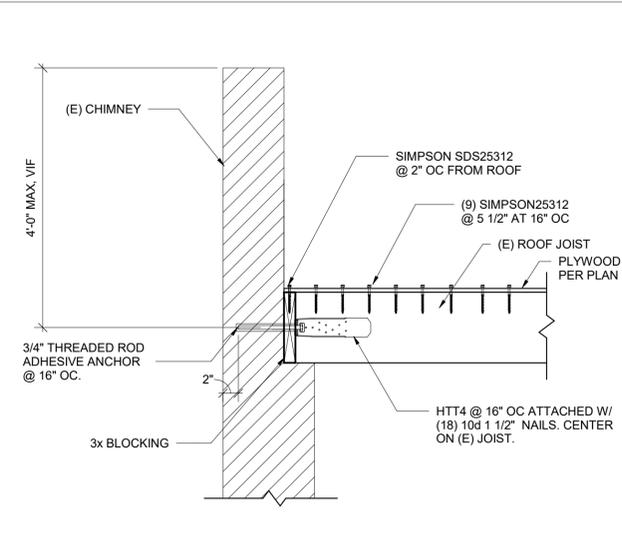
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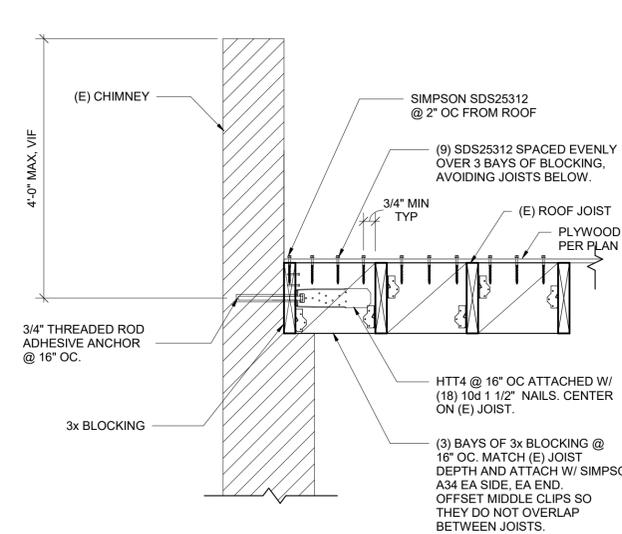
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ROOF FRAMING PLAN  
S2.3

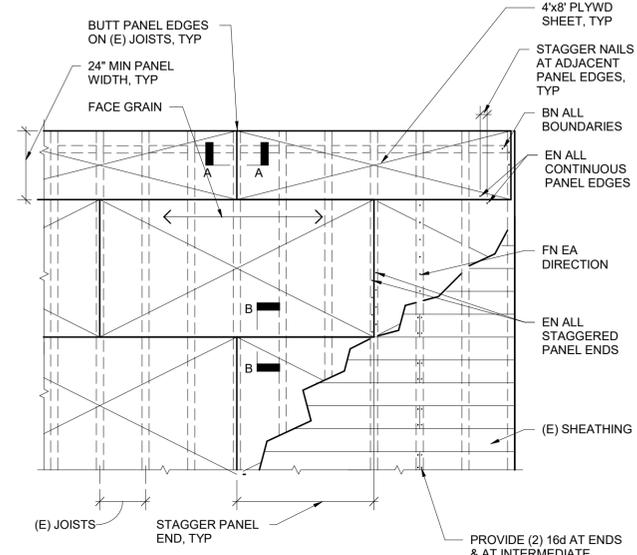
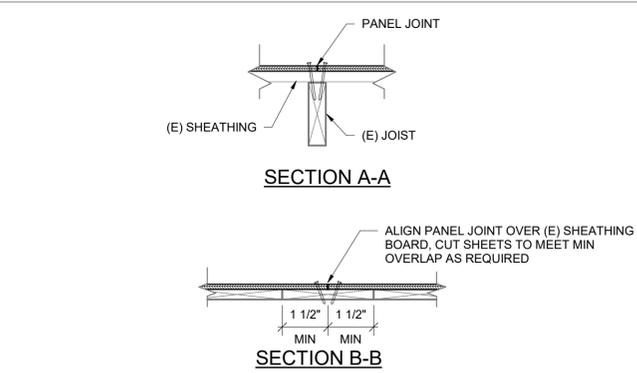
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**7** JOIST PERPENDICULAR TO CHIMNEY  
1" = 1'-0"



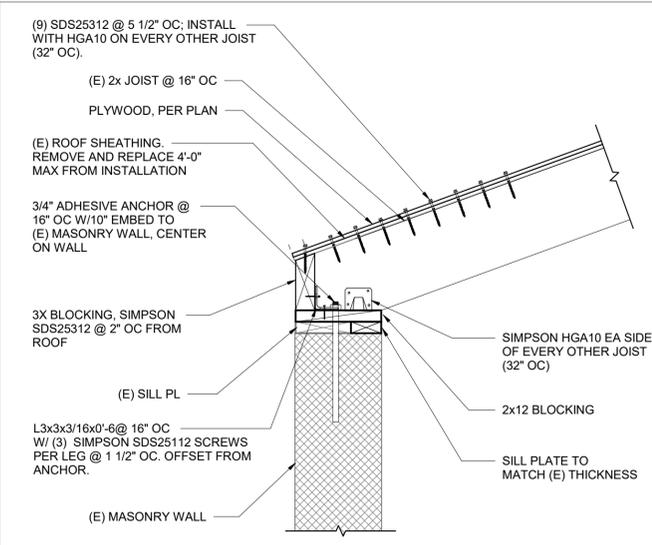
**8** JOIST PARALLEL TO CHIMNEY  
1" = 1'-0"



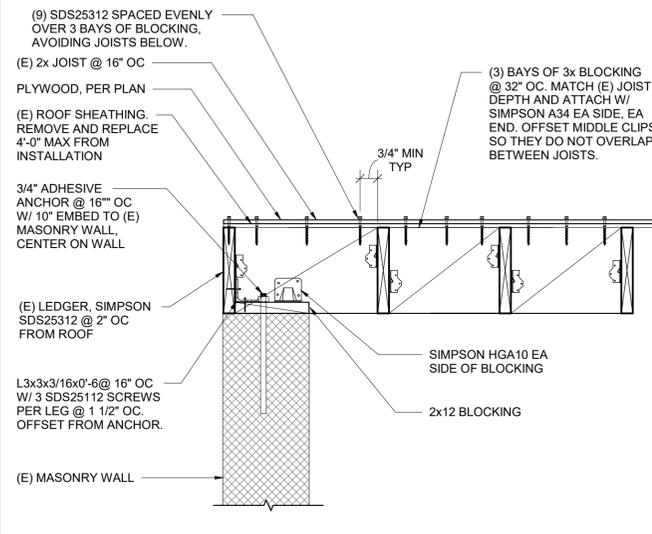
**PLAN**

LOCATION	PLYWD	NAIL SIZE	EDGE NAIL	FIELD NAIL	BOUNDARY
ROOF	1/2" STRUCT 1	10d	6"	12"	6"

**5** PLYWOOD SHEATHING OVERLAY  
3/4" = 1'-0"



**1** WALL ANCHOR JOIST PERPENDICULAR  
1" = 1'-0"



**2** WALL ANCHOR JOIST PARALLEL  
1" = 1'-0"

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DETAILS  
**S5.1**