ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).	17.	FOUNDATION VALUES LISTE THEREFORE N
DESIGN LOADING CRITERIA		NOTIFY THE S
ROOF SNOW LOAD25 PSFFLOOR LIVE LOAD125 PSF OR 2,000 LBSSTAIR AND EXITS LIVE LOAD100 PSFGUARDRAILS/BALCONY RAILS (EXIT FACILITY)50 PLF OR 200 LBS.		FOOTINGS SH OR BOTH) AT SHOWN ON PL OF FOOTINGS
GUARDRAILS/BALCONY RAILS (OTHER THAN EXIT FACILITY)20 PLF OR 200 LBS.MECHANICAL UNITSWEIGHTS FURNISHED BY MANUFACTURER		FOOTINGS SH BACKFILL BE SUBSURFACE
<u>WIND</u> : ANALYSIS PROCEDURE: ASCE 7-16 CHAPTER 27 "PART I - BUILDINGS OF ALL HEIGHTS" RISK CATEGORY II IO4 MPH		<u>THE STRUCTUI</u> REPORT:
EXPOSURE "B" TOPOGRAPHIC FACTOR Kzt = 1.0		ALLOWABLE LATERAL EAI
EARTHQUAKE : ANALYSIS PROCEDURE: IBC "EQUIVALENT LATERAL FORCE PROCEDURE" SEISMIC DESIGN CATEGORY (SDC) = D RISK CATEGORY = II SEISMIC SITE CLASS = D IMPORTANCE FACTOR I& = 1.0 MAPPED MCE Ss = 1.26; S <sub>1</sub> = 1.01 DESIGN ACCELERATION Sds = 0.43; Sd <sub>1</sub> = 0.54		SEISMIC SURC PASSIVE SOIL SOIL COEFFIC SOIL DENSITY
LATERAL LOADS ARE TRANSFERRED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE SHEAR WALLS OR BRACED FRAMES. MOMENTS, SHEARS AND ROTATIONAL FORCES ARE BASED ON THE RIGIDITY OF EACH SHEAR WALL OR BRACED FRAME AND ARE CARRIED BY THE SHEAR WALLS OR BRACED FRAMES TO THE FOUNDATION.	18	. <u>DEMOLITION</u> : SHALL BE INS TO THE WORK PLANS. SAW SAVED. DEM
<u>STRUCTURAL DRAWINGS</u> SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.		STRUCTURE. SYSTEMS TO A. ALL NEM
<u>CONTRACTOR</u> SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.		SAW CUT B. VERIFY C. SMALL F
<u>CONTRACTOR</u> SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.		D. WHERE N EXISTING OTHERW
<u>CONTRACTOR</u> SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THEIR WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.	19	. <u>CONCRETE</u> S CONSTRUCTIC 28-DAY STR SLABS-ON-G
<u>CONTRACTOR-INITIATED</u> CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.		SECTION 190 CEMENT PER (BEFORE THE FOOTINGS AI
<u>DRAWINGS</u> INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.		THE MINIMUM PERFORMANC APPROVAL 1 THE PERFORM
ALL STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.		COARSE AGO CONCRETE Y ADMIXTURES PERCENTAGE PERFORMANO
<u>SHOP DRAWINGS</u> FOR REINFORCING STEEL (FOR BOTH CONCRETE AND MASONRY CONSTRUCTION), STRUCTURAL STEEL, AND METAL DECKING, SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.		THE ATTENTION ONLY THAT I CONTRACTOR
CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENTS AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH REINFORCEMENT SHOP DRAWINGS.		ALL CONCRE AIR-ENTRAIN CONCRETE S STEEL TROW
SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.		D. <u>REINFORCING</u> DETAILED (IN CONTINUOUS BARS AT AL DIAMETERS (
SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND	21	318, CLASS E SLABS EXTEND
THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.		FOOTINGS AI FORMED SUR (#6 BARS OR
DEFERRED SUBMITTALS OF DESIGN BUILD COMPONENTS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE		(#5 BARS OR COLUMN TIES SLABS AND
CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE AND SHALL INCLUDE DESIGN CALCULATIONS WITH THE ENGINEER'S STAMP.	22	2. <u>CAST-IN-PLA</u> OF DOOR AN
THE FOLLOWING COMPONENTS SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT: STAIRS, RAILINGS, AND METAL BUILDINGS		AND LOCATI ARCHITECTU TEXTURE, AN AND PRECAS
MECHANICAL UNIT CONNECTIONS TO THE BUILDING SHALL BE DESIGNED BY THE MANUFACTURER FOR THE DESIGN CRITERIA AND CONDITIONS SHOWN ON THE STRUCTURAL DRAWINGS." MANUFACTURER SHALL SUBMIT DETAIL DRAWINGS AND CALCULATIONS, BOTH OF WHICH BEAR THE STAMP AND SIGNATURE OF A STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER." MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR DESIGN, CODE CONFORMANCE, AND CONNECTION OF THE UNIT TO THE BASIC STRUCTURE." ALL NECESSARY BRACING, TIES, ANCHORAGE, DISTRIBUTION MEMBERS, AND SIMILAR	23	3. <u>NON-SHRINK</u> APPROVED 1 MANUFACTUR THE MATERIA
ELEMENTS SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH SUBMITTED DRAWINGS AND CALCULATIONS.	24	4. <u>POLYSTYREN</u> SHALL BE RI MINIMUM CON RESISTANCE
<u>SPECIAL INSPECTION</u> : CONCRETE CONSTRUCTION, MASONRY CONSTRUCTION, STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING AND HIGH-STRENGTH FIELD BOLTING), METAL DECK INSTALLATION, EXPANSION BOLTS AND THREADED EXPANSION INSERTS, SCREW ANCHORS, AND EPOXY GROUTED INSTALLATIONS SHALL BE SUPERVISED IN ACCORDANCE WITH IBC SECTIONS 1704 & 1705 AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE TESTING AGENCY AND INSPECTOR SHALL BE REGISTERED WITH WABO AND SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET		RESISTANCE BLOCK JOIN RECOMMEND

### GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

### <u>GEOTECHNICAL</u>

S: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE BASED N ON PREVIOUSLY PERMITTED BUILDING PLANS DATED DECEMBER 22, 1995 AND BE VERIFIED IN THE FIELD. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, CTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

BEAR ON FIRM, UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL ST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS IT BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD. UNLESS OTHERWISE NOTED, BE CENTERED UNDER COLUMNS OR WALLS ABOVE.

ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR INAGE.

DESIGN IS BASED ON THE FOLLOWING VALUES FROM THE REFERENCED GEOTECHNICAL

BEARING PRESSURE	2,000 PSF
PRESSURE (RESTRAINED/UNRESTRAINED)	55 PCF/35 PCF
GE PRESSURE (RESTRAINED/UNRESTRAINED)	8H PSF/5H PSF
ESSURE	350 PCF
OF FRICTION	0.35
	120 PCF

#### <u>RENOVATION</u>

RIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING LED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE QUENCES. EXISTING REINFORCING SHALL BE SAVED WHERE AND AS NOTED ON THE FING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE TION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SF

ENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY WHEREVER POSSIBLE

EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS. D OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSIBLE REINFORCING TERMINATES AT EXISTING CONCRETE, REBAR DOWELS EPOXIED INTO THE NCRETE SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING, UNLESS NOTED ON PLANS.

#### CONCRETE

BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. PLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI 117. CONCRETE SHALL ATTAIN A H OF F'C = 3,000 PSI. ALL CONCRETE EXPOSED TO THE WEATHER AND ALL GARAGE SHALL ATTAIN A 28-DAY STRENGTH I'C OF 3,500 PSI IN ACCORDANCE WITH IBC ND ACI 318 TABLE 19.3.2.1. MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF IC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS PITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.55 FOR 45 FOR ALL SLABS AND EXPOSED CONCRETE UNLESS OTHERWISE NOTED. EXCEPT ND SLAB ON GRADE, AGGREGATE SIZE SHALL NOT EXCEED 3/4".

UNT OF CEMENT AND THE MAXIMUM SLUMP MAY BE CHANGED IF A CONCRETE IX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR NEEKS PRIOR TO PLACING ANY CONCRETE. (THE W/C RATIO LIMITS STILL APPLY). CE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND GATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A X REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES MATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. INTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AGENT CONFORMING TO ASTM C260. TOTAL AIR CONTENT FOR FROST-RESISTANT BE IN ACCORDANCE WITH ACI 318-14 TABLE 19.3.3.1. ALL CONCRETE TO RECEIVE A FINISH SHALL NOT BE AIR-ENTRAINED.

EL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT SI), AND SHALL BE PING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL FORCEMENT #5 AND SMALLER 60 BAR DIAMETERS, 2'-0" MINIMUM. PROVIDE CORNER LL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 60 BAR -O" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI ROVIDE (2) #5 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR 5 2'-6" PAST CORNERS, TYPICAL.

CTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

OTHER UNFORMED SURFACES CAST AGAINST EARTH	3"
ZES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER IRGER) IALLER)	2"  - /2"
SPIRALS AND BEAM STIRRUPS	- /2"

S (INTERIOR FACE) GREATER OF (BAR DIAMETER PLUS 1/8") OR 3/4"

ONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS NDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, HER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE

IT SHALL BE NON-METALLIC CONFORMING TO ASTM CILOT AND BE FURNISHED BY AN FACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO I WHICH IT IS PLACED (5000 PSI MINIMUM).

IGID INSULATION) LIGHTWEIGHT STRUCTURAL FILL PLACED BELOW CONCRETE SLABS CELLULAR POLYSTYRENE CONFORMING TO ASTM D6817 OR ASTM C578, WITH A SSIVE RESISTANCE OF 5 PSI @ 1% DEFORMATION AND A MINIMUM COMPRESSIVE 5 PSI @ 10 % DEFORMATION, U.O.N. MAXIMUM DENSITY SHALL BE 2.0 PCF. OFFSET TWEEN ADJACENT LAYERS AND ATTACH BLOCKS PER THE MANUFACTURER'S

25. EXPANSION BOLTS INTO CONCRETE SHALL BE "KWIK BOLT 3" EXPANSION ANCHORS AS MANUFACTURED BY HILTI CORP. INSTALLED IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2302 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR JAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

<u>ANCHORAGE</u>

- 26. EXPANSION BOLTS INTO GROUT FILLED CMU SHALL BE "KWIK BOLT 3" EXPANSION ANCHORS AS MANUFACTURED BY HILTI CORP. INSTALLED IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-1385 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
- 27. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3037 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
- 28. EXPANSION BOLTS INTO GROUT FILLED CMU SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH IAPMO UES REPORT NO. ER-240 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
- 29. SCREW ANCHORS INTO CONCRETE SHALL BE "KWIK HUS-EZ", AS MANUFACTURED BY HILTI, INC. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3027 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.
- 30. SCREW ANCHORS INTO GROUT FILLED CMU SHALL BE "KWIK HUS-EZ", AS MANUFACTURED BY HILTI, INC. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3056 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.
- 31. DRIVE PINS, SHOT PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE FASTENERS AS MANUFACTURED BY HILTI CORPORATION. WHEN CALLED FOR IN THE DRAWINGS, PROVIDE THE APPROPRIATE FASTENER AS NOTED IN THE TABLE BELOW FOR EACH GIVEN APPLICATION. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORTS NO. ESR-2269 FOR THE X-U FASTENERS AND ESR-2379 FOR THE X-CP FASTENERS. MINIMUM EMBEDMENT IN CONCRETE SHALL BE I" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE EDGE AND 4" CENTER TO CENTER SPACING. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES.

ALLOWABLE APPLICATION	ALLOWABLE <u>FASTENER TYPE</u>	SHEAR CAF
	X-CP 72 P8 523 w/ 1.33" EMBED	250
LIGHT GAUGE STEEL 33 MILS (20 GA.) MIN. TO CONCRETE (2000 PSI MIN.)	X-U 27 P8 515	190
2X LUMBER TO STRUCTURAL STEEL (3/16" MIN., 36 OR 50 KSI)	X-U 52 MX PLUS R-23 WASHERS	250
LIGHT GAUGE STEEL 43 & 33 MILS (18 & 20 GA.) TO STRUCTURAL STEEL (3/16" MIN. TO II/16" MAX)	X-U 19 P8 TH	445
LIGHT GAUGE STEEL 97, 68 \$ 54 MILS (12, 14 \$ 16 GA.) TO STRUCTURAL STEEL (3/16" MIN. TO 11/16" MAX)	X-U 19 P8 TH	720
LIGHT GAUGE STEEL (ALL GA.) TO STRUCTURAL STEEL (3/4" AND GREATER)	X-U 19 P8 TH	350
2X TREATED LUMBER TO GROUTED CMU	X-CP 72 P8 523	105
	X-11 32 PB 615	220

LIGHT GAUGE STEEL	X-U 32 P8 515	220
33 MILS (20 GA.) MIN.		
TO GROUTED CMU		

- 32. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO CONCRETE SHALL BE INSTALLED USING "HIT-RE 500 V3" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3814, INCLUDING STANDARD EMBEDMENT REQUIREMENTS, U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.
- 33. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO GROUT FILLED CMU SHALL BE INSTALLED USING "HIT HY 270" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-4143, INCLUDING STANDARD EMBEDMENT REQUIREMENTS, U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.

#### MASONRY

34. CONCRETE MASONRY UNIT WALLS SHALL BE CONSTRUCTED OF MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, LAID IN A RUNNING BOND. CONTACT ENGINEER FOR RE-DESIGN OF REINFORCING WHERE STACK BOND LAYOUT IS REQUIRED. LINEAR SHRINKAGE SHALL NOT EXCEED 0.065%. MORTAR SHALL BE TYPE "S" IN ACCORDANCE WITH ASTM C270. GROUT SHALL CONFORM TO IBC REQUIREMENTS AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS, DESIGN F'M = 2,000 PSI. FULL STRESSES ARE REQUIRED. STRENGTH SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH TMS 602-16.

PROVIDE (2) #5 ((2)#4 @ 6" AND 4" WALLS) VERT. AT EACH SIDE OF OPENINGS, AT WALL CORNERS AND INTERSECTIONS AND AT FREE ENDS OF WALLS AND (2) #4 HORIZ. AT ELEVATED FLOOR AND ROOF LEVELS, AT TOPS OF WALLS AND ABOVE AND BELOW ALL OPENINGS. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAMS. EXTEND REINFORCEMENT AROUND OPENINGS 2'-O" BEYOND FACE OF OPENING. IF 2'-O" IS UNAVAILABLE, EXTEND AS FAR AS POSSIBLE AND HOOK. PROVIDE CORNER BARS TO LAP HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS. UNLESS NOTED OTHERWISE, LAP ALL REINFORCING STEEL IN CMU 48 BAR DIAMETERS, 2'-O" MINIMUM.

ALL CELLS ARE TO BE SOLID GROUTED UNLESS NOTED AS PARTIAL GROUTING. FOR PARTIAL GROUTING FILL ALL CELLS CONTAINING REINFORCEMENT OR EMBEDDED ITEMS AND ALL CELLS BELOW GRADE WITH GROUT. ALL REINFORCEMENT SHALL BE IN PLACE PRIOR TO GROUTING AND SHALL BE HELD AT TOP, BOTTOM AND 192 BAR DIAMETERS (MAX.) O.C. PER TMS 602 SPECIFICATION 3.5, GROUT POURS SHALL NOT EXCEED 5'-4" IN HEIGHT UNLESS A TEST PANEL IS CONSTRUCTED BY THE MASON AND APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE CLEANOUT HOLES AT BOTTOM OF ALL CELLS CONTAINING REINFORCEMENT FOR ALL GROUT POURS OVER 5'-4" IN HEIGHT. PROVIDE | 1/2 IN. GROUT KEYS BETWEEN EACH POUR.

APACITY (LBS) TENSION CAPACITY (LBS)

175		
165		
175		
360		
535		
375		
100		
225		

35. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE A.I.S.C. SPECIFICATIONS AND CODES:

A. AISC - STEEL CONSTRUCTION MANUAL, 15<sup>TH</sup> EDITION

B. AISC 303-16 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. C. 2014 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS.

36. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

#### TYPE OF MEMBER

		2
A. WIDE FLANGE (W AND WT) SHAPES	A992	50 KSI
B. ALL OTHER SHAPES	A36	36 KSI
C. PLATE	A36 OR A572	36 KSI (MIN)
D. PIPE SECTIONS	A53 (TYPE E OR S, GRADE B)	35 KSI
E. STRUCTURAL TUBING (SQUARE OR RECTANGULAR)	A500 (GRADE C)	50 KSI
F. ANCHOR BOLTS AND THREADED RODS	F1554 (GRADE 36) OR	36 KSI
(EMBEDDED IN MASONRY OR CONCRETE)	FI554 (GRADE 55, SUPP. SI)	55 KSI
G. CONNECTION BOLTS	F3125 GRADE A325-N	92 KSI
(7/8" ROUND, UNLESS SHOWN OTHERWISE)		
H. HEADED SHEAR STUDS	A29	49 KSI
I. THREADED RODS	A36	36 KSI
J. STAINLESS STEEL	AISI 316L	30 KSI

ASTM SPECIFICATION

Fy

SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEERALL STEEL TO BE FIREPROOFED SHALL BE LEFT UNPAINTED. ALL OTHER STEEL SHALL HAVE ONE COAT OF APPROVED SHOP PAINT.

STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO WEATHER OR EARTH SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A123. GALVANIZE BOLTS AND SIMILAR THREADED FASTENERS EXPOSED TO WEATHER OR EARTH IN ACCORDANCE WITH ASTM A153. ALL FIELD WELDS EXPOSED TO WEATHER OR EARTH SHALL BE COATED WITH BRUSH APPLIED ZINC RICH PAINT COMPLYING WITH ASTM A780 (Z.R.C. OR EQUIVALENT).

A MINIMUM OF TWO BOLTS ARE REQUIRED FOR ALL CONNECTIONS. ALTERNATE CONNECTIONS TO THOSE SHOWN ON THESE DRAWINGS WILL REQUIRE PRIOR APPROVAL OF THE ENGINEER.

ALL MEMBERS ARE TO BE ERECTED WITH THE NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE DRAWINGS. BEAM CAMBER ON THE DRAWINGS IS THE UPWARD CAMBER REQUIRED IN THE BEAM AS DELIVERED TO THE JOBSITE. CONTRACTOR TO CONSIDER CAMBER LOSS, IF ANY, DUE TO SHIPPING AND HANDLING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES AND UNEQUAL PARTS

37. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES

38. ALL A325 CONNECTION BOLTS SHALL BE INSTALLED TO THE SNUG-TIGHT CONDITION PER RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ALL NUTS SHALL CONFORM TO ASTM A563. ALL WASHERS SHALL CONFORM TO ASTM F436 OR ASTM F959 TYPE 325. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.

39. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING ETO XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. ALL WELDING OF STAINLESS STEEL SHALL USE E309 ELECTRODES WITH A GMAW PROCESS. ALL WELDING SHALL BE PERFORMED BY WELDERS WITH AWS / W.A.B.O. CERTIFICATION WITH THE MATERIAL AND METHOD REQUIRED.

SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELDING SHALL BE 3/16-INCH. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD ARROWS ARE SHOWN WHERE A FIELD WELD IS REQUIRED BY THE STRUCTURAL DESIGN; THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL DELIVERY AND ERECTION. SEE THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL WELDING REQUIREMENTS, ESPECIALLY AT SPECIAL MOMENT RESISTING FRAMES AND OTHER SEISMIC CRITICAL WELDS.

40. WELDING OF LATERAL FORCE RESISTING MEMBERS SHALL BE PERFORMED IN ACCORDANCE WITH A WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS DI.I (INCLUDING AWS DI.8 SEISMIC SUPPLEMENT) AND APPROVED BY THE STRUCTURAL ENGINEER BEFORE WORK BEGINS. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER METAL MANUFACTURER. WELDING ELECTRODES SHALL BE ETOTT-K2 OR ETOT-6 WITH A MINIMUM SPECIFIED CHARPY V-NOTCH (CVN) OF 20 ft-lbs AT -20 DEGREES FAHRENHEIT AND 40 ft-lbs AT 70 DEGREES FAHRENHEIT. REMOVE BOTTOM FLANGE WELD TAB AT MOMENT FRAME CONNECTIONS AND REINFORCE WITH 5/16" FILLET WELD IN CONFORMANCE WITH FEMA-353 RECOMMENDATIONS. WELD ACCESS HOLE DETAILING AT MOMENT FRAME CONNECTIONS SHALL CONFORM WITH FEMA-350 AND FEMA-353 RECOMMENDATIONS.

41. METAL FLOOR AND ROOF DECKING - PROVIDE SIZE, TYPE, GAUGE, AND ATTACHMENT TO THE SUPPORTING STRUCTURE AS SHOWN ON THE PLANS. ALTERNATES MUST BE CONNECTED ACCORDING TO PUBLISHED I.C.C. OR IAPMO UES CRITERIA FOR DIAPHRAGM SHEARS SHOWN. PROVIDE SHORING WHERE REQUIRED PER MANUFACTURER'S PUBLISHED CRITERIA. ALL DECKING SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

42. HEADED STUDS FOR COMPOSITE CONNECTION OF STRUCTURAL STEEL TO CAST-IN-PLACE CONCRETE SHALL BE MANUFACTURED FROM MATERIAL CONFORMING TO ASTM A29 AND SHALL BE WELDED IN CONFORMANCE WITH A.W.S. REQUIREMENTS.

43. DEFORMED BAR ANCHORS (DBA) SHALL BE TYPE D2L ANCHORS BY NELSON STUD WELDING DIVISION, TRW ASSEMBLIES AND FASTENERS GROUP (OR EQUIVALENT). ANCHORS SHALL BE MADE FROM COLD ROLLED, DEFORMED STEEL CONFORMING TO ASTM A1064.

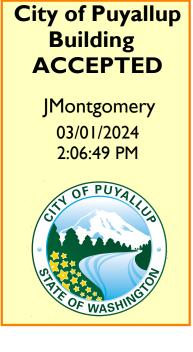
> FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS (MIN. PLAN SIZE 24" X 36")

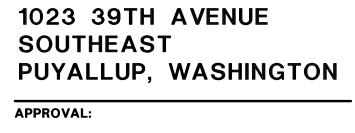
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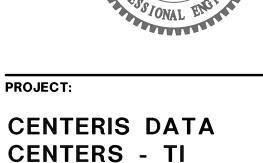
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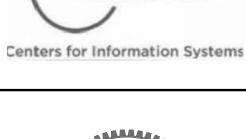
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MIT ALL AS-BUILTS AND ESIGN SEALED BY EOR TO DING INSPECTOR

LDING INSPECTORS RETION IF EXTENT OF REVISON UIRES TO BE SUBMITTED AS A ISION

ALL SPECIAL IONS AND STRUCTURAL ATION REPORTS TO THE GINSPECTOR. GENERAL STRUCTURAL NOTES (The following apply unless shown otherwise on the plans)

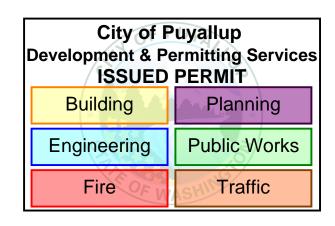
	TIONS	
At	L	Angle
ails)	LB.	Pound
ees		Live Load Long Leg Horizontal
unds	LLV	Long Leg Vertical
ber	LONGIT. LT. WT.	Longitudinal Lightweight
ove		
Bolt onal	MAX. MECH.	Maximum Mechanical
ate	MEZZ.	Mezzanine
ate	MF	Moment Frame
ect sign	MFR. MIN.	Manufacturer Minimum
-	MISC.	Miscellaneous
low 1 of	MK.	Mark
ame	(N)	New
<ing ding</ing 	N. N.S.	North Near Side
eam	NOM.	Nominal
tom	NTS	Not to Scale
ring een	O.C.	On Center
	0.D.	Outside Diameter
line ber	0.F. 0.H.	Outside Face Overhang
ace	OPNG.	Opening
oint	OPP.	Opposite
tion iling	PAF	Powder Actuated Fastener
ear	PC	Precast
Unit Iumn	PERM. PERP.	Permanent Perpendicular
ete	pjp	Partial Joint Penetration
ions	PL or PL	Plate
tion 1005	PLF PLYWD	Pounds per linear Foot Plywood
sink	PREFAB.	Prefabricated
hor	PSF PSI	Pounds per Square Foot
ible	P.T. or PT	Pounds per Square Inch Post-Tensioning
ree	P/T	Pressure-Treated
arch eter	RAD.	Radius
onal	REF.	Reference
agm	REINF.	Reinforce or Reinforcement
sion own	REQD. REV.	Required Revise
itto	R.O.	Rough Opening
etail ate	S.	South
ving	SCH. or SCHEI	D. Schedule
ting	SECT. SHT.	Section Sheet
ast	SIM.	Similar
ach	SOG	Slab On Grade
ace tion	SPEC. SQ.	Specification Square
ator	SQ. FT.	Square Feet
ngth eer	SQ. IN. SPF	Square Inch(es) Spruce-Pine-Fir
qual	S.S.	Stainless Steel
Ŵay	STD.	Standard
sion rior	STIFF. STL.	Stiffener Steel
	STR.	Structural
tion nish	SUB. SYM.	Substitute
	<b>Y</b> I I I I	Summetrical
oor		Symmetrical
mer	T/ T#B	Top of
	T/ T\$B T\$G	Top of Top and Bottom
mer Dide	T&B T&G TEMP.	Top of Top and Bottom Tongue & Groove Temporary
mer bide eet ting	T&B T&G TEMP. THRU	Top of Top and Bottom Tongue & Groove Temporary Through
mer Dide eet	T&B T&G TEMP. THRU T.O.C. T.O.S.	Top of Top and Bottom Tongue & Groove Temporary
mer bide eet ting uge zed ted	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall
mer bide eet ting uge zed	T&B T&G TEMP. THRU T.O.C. T.O.S.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel
mer bide eet ting zed ted ard zed	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse
mer bide eet ting uge zed ted ard	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical
mer bide eet ting zed ted ard zed Fir ger	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted
mer bide eet ting uge zed ted ard zed fir ger ntal	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.W. TRANS. TS TYP. U.O.N. VERT.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical
mer bide eet ting zed ted ard zed Fir ger	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted
mer bide eet ting uge zed ted ard zed Fir ger ntal tion ight	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field
mer bide eet ting zed ted ard zed fir ger ntal tion	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field
mer bide eet ting uge zed ted ard zed fir ger ntal tion tight eter ace lnch	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field West With Welded Headed Stud Without
mer bide eet ting uge zed ard zed ard fir ger ntal tion tight eter ace	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field West With
mer bide eet ting uge zed ard zed ard zed fir ger ntal tion tion tion	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O W.P.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field West With Welded Headed Stud Without Work Point
mer bide eet ting uge zed ard zed ard fir ger ntal tion tion tion	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.M. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O W.P. W.T.S.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field West With Welded Headed Stud Without Work Point Welded Threaded Stud
mer bide eet ting uge ted ard zed ard fir ger ntal tion tion tion tion cion	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O W.P. W.T.S. WWF X SECT. X-STR	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field West With Welded Headed Stud Without Nork Point Welded Threaded Stud Welded Wire Fabric
mer bide eet ting uge zed ard zed ard Fir ger ntal tion tight eter ace lnch tion rior oint	T&B T&G TEMP. THRU T.O.C. T.O.S. T.O.N. TRANS. TS TYP. U.O.N. VERT. VIF W. W/ or w/ W.H.S. W/O W.P. W.T.S. WWF X SECT.	Top of Top and Bottom Tongue & Groove Temporary Through Top of Concrete Top of Steel Top of Wall Transverse Tube Steel Typical Unless Otherwise Noted Vertical Verify in Field West With Welded Headed Stud Without Nork Point Welded Threaded Stud Welded Wire Fabric

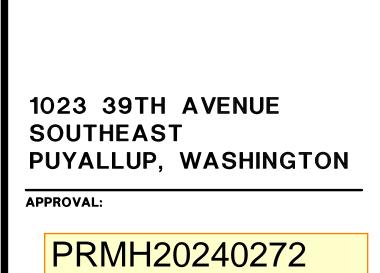
	ABBR	ΈVI/
@ d	At Penny (Nails)	
Ф °	Diameter Degrees	
# #	Pounds Number	
(A)	Above	
A.B. ADD'L	Anchor Bolt Additional	
ALT. APPRO	Alternate	
ARCH.	Architect	
A.S.D.	Allowable Stress Design	
(B) B/	Below Bottom of	
BF BLKG.	Braced Frame Blocking	
BLDG. BM.	Building Beam	
BOT. BRG.	Bottom Bearing	
BTWN.	Between	
CL or ( C	É Centerline Camber	
CIP	Cast In Place	
C.J. CJP	Construction Joint or Control Joint Complete Joint Penetration	
CLG. CLR.	Ceiling Clear	
CMU COL.	Concrete Masonry Unit Column	
CONC. CONN.	Concrete Connections	
CONST.	Construction	
CONT. CSK.	Continuous Countersink	
DBA	Deformed Bar Anchor	
DBL. DEG.	Double Degree	
DF DIA.	Doug Fir-Larch Diameter	
DIAG.	Diagonal	
DIAPH. DIM.	Diaphragm Dimension	
DN. DO	Down Ditto	
DTL. DTP	Detail Double Top Plate	
DWG.	Drawing	
(E) E.	Existing East	
EA. E.F.	Each Each Face	
EL. ELEV.	Elevation	
EMBED.	Embedment Length	
ENGR. EQ.	Engineer Equal	
E.M. EXP.	Each Way Expansion	
EXT.	Éxterior	
FDN. FIN.	Foundation Finish	
FLR. FRP	Floor Fiber Reinforced Polymer	
F.S. FT.	Far Side Foot or Feet	
FT. FTG.	Foot or Feel Footing	
GA.	Gauge	
GALV. GL	Galvanized Glue Laminated	
GWB	Gypsum Wall Board	
HDG HDR.	Hot Dipped Galvanized Header	
HF HGR.	Hem Fir Hanger	
HORIZ. HSS	Horizontal Hollow Structural Section	
HT.	Height	
l.D. I.F.	Inside Diameter Inside Face	
IN. INFO.	Inch Information	
INT.	Interior	
JT.	Joint	
K KSF	Kips Kips per Square Foot	
KSI	Kips per Square Inch	

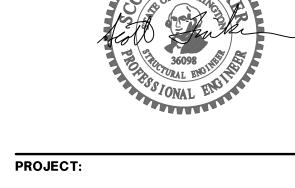


## GENERAL STRUCTURAL NOTES SHEET NO.

	FAN WALLS & FLOO OPENINGS	R	2/2/24			
NO.	DESCRIPTION		DATE	BY		
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<b>P.M</b> .	P.M.		SHT			
Р.Е.		TVM				
DRAWN BY:		SC				
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DAT	DATE:		2/2/24			
JOB	JOB NO.		23444.01			
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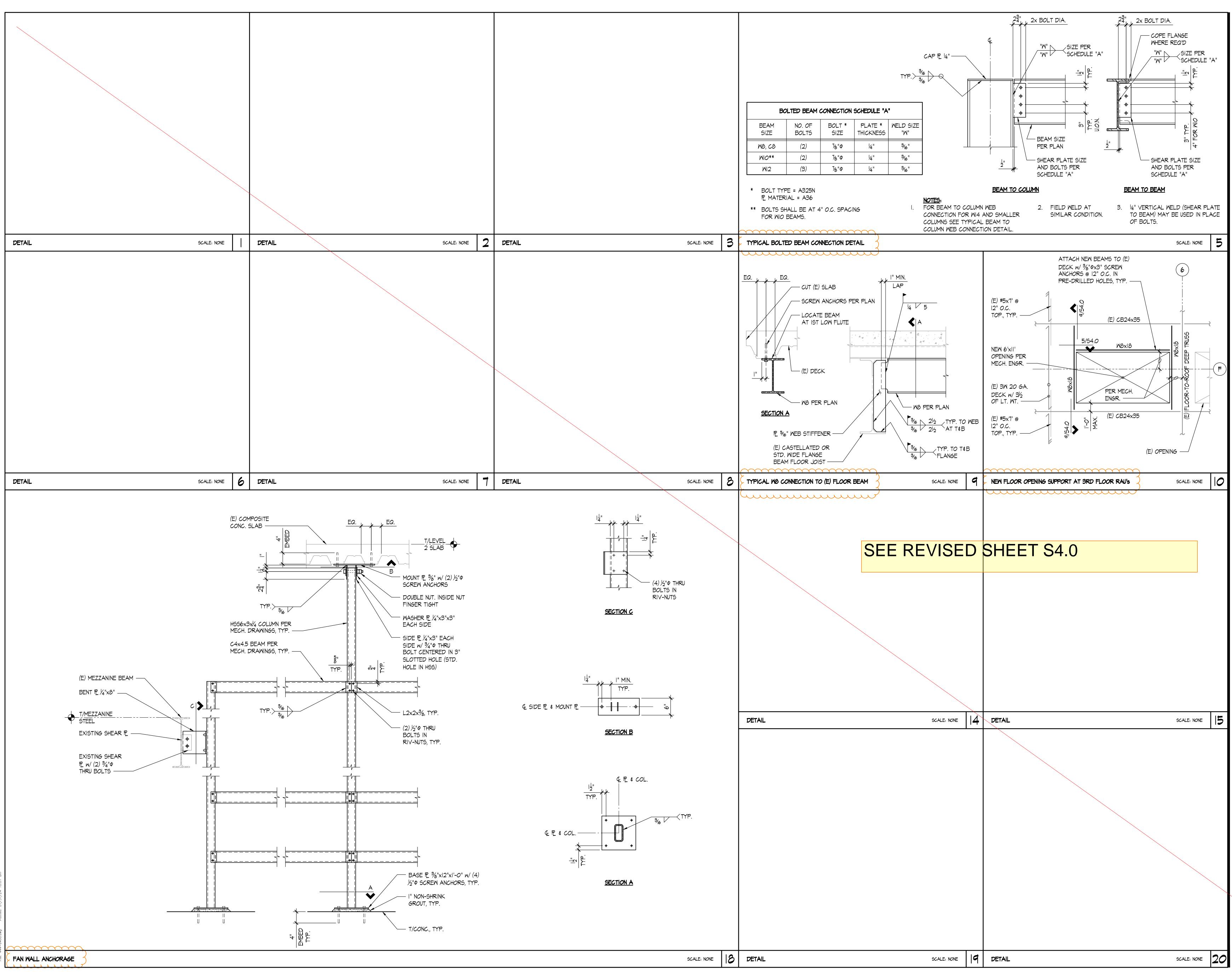
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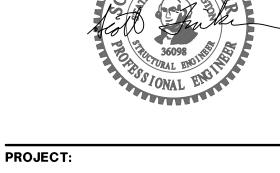
# DETAILS

SHEET NO.

	FAN WALLS & FLOOF OPENINGS	2	2/2/24		
NO.	DESCRIPTION		DATE	BY	
ISSUES:		RE	VISIONS:	$\overline{\bigtriangleup}$	
Р.М.		SHT			
P.E.		TVM			
DRAWN BY:		SC			
SCALE:		AS SHOWN			
DATE:		2/2/24			
JOB NO.		23444.01			
SHE	ET TITLE:				

City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building	Planning			
Engineering	Public Works			
Fire OF W	Traffic			





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