NO HORIZ PW JOINTS FOR

2X6 BLKG. FULL LENGTH

LENGTH OF STRAP

#### CODES.

All methods, materials and workmanship shall conform to the 2018 International Residential Code (IRC) as amended and adopted by the local building authority. Engineered design in accordance with the International Building Code is permitted for all buildings and structures, and parts thereof, included in the scope of this code // (IRC R301.1.3). All reference to other codes and standards, (ACI, ASTM, etc.,), shall be for the latest or most B.L current edition available

#### Design criteria.

**Uniform loads:** Ground snow load 25 psf Snow (IRC R301.2)

Live load Dead load actual Floor actual

Wind (IRC R301.2) Basic wind speed: 97 mph (3 second gust | Ultimate) Exposure: E

Importance factor: 1.0 Seismic (IRC R301.2) Sóil Site Class D Seismic Design category D2 Importance factor: 1.0

Basement walls and other walls in which horizontal movement is restricted at the top shall be designed for at rest load of not more than 60 psf/ft. Retaining walls free to move and rotate at the top are permitted to be designed for active load of not more than 30 psf/ft.

1500 psf assumed - Contractor to field verify condition. A geotechnical report is required for review by the Engineer and Building Official whenever structures or portions thereof are to be located on fill.

#### Inspection - shall be performed per the Building Official's rules.

#### CONCRETE

All concrete shall be hard rock concrete meeting requirements of ACI-318, "Buiding Code Requirements for Structural Concrete". Place concrete per ACI-318 and conform to ACI-306R-88 for winter concreting and ACI-305R-91 for hot weather concreting. Do not over-vibrate. Minimum specified compressive strength and aircontent of concrete shall be as shown below. (Ref.:IRC Table R402.2 for Moderate Weathering Potential.)

Type or location of concrete construction	Strength(psi)	Air content	Notes
Basement walls, foundations and other concrete not exposed to the weather Basement slabs and interior slabs on grade,	2500	None	
except garage floor slabs	2500	None	
Basement walls, foundation walls, exterior walls and other vert. conc.			
work exposed to the weather Porches, carport slabs and steps exposed to the weather,	3000	5-7%	
and garage floor slabs	3000	5-7%	1

### Note 1: See IRC R402.2 and ACI 318 Chapter 4 for minimum cement content

Reinforcing steel. Deformed bar reinforcement: ASTM A-615 Grade 60 ASTM A-185 & ASTM A-82 Melded wire fabric:

All reinforcing shall be lap-spliced a minimum lap of 40 bar diameters except as noted specifically on the structural drawings. No more than 50% of horizontal or vertical bars shall be spliced at one location. Provide elbow bars (40 diameters) to lap horizontal steel at corners and intersections in footings and walls.

## Concrete cover on reinforcing (unless shown otherwise). Bottom of footings 3" Formed earth face & slab-on-grade 2"

Framing lumber shall be DF#2 or better, except that 2x framing lumber may be HF #2 unless otherwise shown on the plans. All 2" lumber shall be kiln dried (KD). Each piece of lumber shall bear a grade stamp of a recognized lumber grading or inspection bureau or agency per the NIST American Softwood Lumber Standard PS 20-99.

Provide cut or malleable iron washers or where bolt heads, nuts, and lag screws bear on wood.

Treat all wood in contact with concrete, mortar, grout, masonry, and within 8" of earth; all wood over water; and all wood in contact with earth; with one of the following processes:

#### Chromated Copper Arsenate (CCA-C), DOT Sodium Borate (SBX)

Alkaline Copper Quat ACQ-C and ACQ-D (Carbonate) Copper Azole (CBA-A and CA-B)

Where possible, pre-cut material before treatment. All field cuts and drilled holes shall be field treated in accordance with AMPA M-4.

#### Accessories.

#### Bolts shall be ASTM A-307.

Mashers shall be malleable iron washers (M.I.M.) or heavy plate cut washers. Nails shall have the minimum wire dimensions shown on Detail 5 this sheet.

Lag screws, shear plates - see national design specifications.

Anchors and connections shall be Simpson, Teco, Lumberlok or other International Code Council (ICC) approved products. All fasteners shall be installed per manufacturer's recommendations unless otherwise shown.

All hardware exposed to weather, in unheated portions of building, or in contact with treated wood as specified above shall be galvanized as follows: Fasteners shall be hot dipped per ASTM A 153 or mechanically galvanized per ASTM B 695, class 55 or greater. Hardware shall be galvanized per one of the following processes: ASTM A 653 Class 185 (Simpson ZMax G185) or Batch/Post Hot Dipped Galvanized per ASTM A 123.

Stainless steel hardware and fasteners shall be used in connection with any preservative treatment process not specifically listed above

### Minimum nailing.

Minimum nailing shall be per IRC table R602.3 (1) - nailing schedule.

#### Sheathing (plywood/osb)

All grading shall conform to the following standards: NIST Voluntary Product Standard PS 2-92. Thickness and lay-up shall be as shown. All plywood shall be group I or II species. Unless otherwise shown, provide the following

#### Panel edges 8d at 6" on center Intermed. Support 8d at 12" on center

### Gluelam Beams

Materials, manufacture and quality control shall be per ANSI/AITC A-190.1 "Structural Glue Laminated Timber". Unless otherwise shown, camber all beams 1-1/2 times dead load deflection. Unless otherwise shown all beams shall be combination 24F-1.8E as listed in AMC-ASD table 3.1, and have exterior glue. Unless otherwise shown, industrial appearance is acceptable.

### Wood Adhesive.

All wood adhesives shall be elastomeric and shall have a current ICC-ES approval. Apply all adhesives in accordance with the adhesive manufacturer's recommendations.

### **Pre-Engineered Trusses**

Member geometry and spacing shall be as shown on the plans. The manufacturer shall provide additional framing member as shown or as necessary to provide support for mechanical equipment, wall or other partitions, snow drift loads, etc. Trusses with spans greater than 35' shall have the heel plates designed considering the effect of eccentric loading.

Where noted precut blocking, bridging, bracing and/or filler pieces shall be furnished by the manufacturer. Where applicable, wind uplift bracing shall be provided by the manufacturer. Unless noted otherwise, the truss manufacturer shall specify and furnish connection hardware for the installation of their system.

Shop drawings shall indicate all required permanent bracing. Supporting calculations shall indicate member stresses, species/grades and applicable ICC-ES approvals. Shop drawings and calculations shall be sealed by a professional engineer registered in the State of Washington.

Metal plated trusses shall be manufactured a detailed in conformance with the following standards:

ANSI/TPI 1-2002 National Design Standards for Metal Plate Connected Wood Truss Construction. ANSI/TPI 1-1995 Code of Standard Practice for the Metal Plate Connected Wood Truss Industry.

ANSI/TPI 2-1995 Standard for Testing Metal Plate Connected Wood Trusses.

When delivered, the components shall be accompanied by the fabricators certificate of conformance to the above referenced standards, and by the following user advisory notices (or notices equivalent) to: BCSI-B1 Summary Sheet - Guide for Handling, Installation and Bracing of Metal Plate Connected Wood Trusses BSCI-B2 Summary Sheet - Truss Installation and Temporary Bracing.

BSCI-B3 Summary Sheet - Web Member Permanent Bracing/Web Reinforcement. BSCI-B4 Summary Sheet - Construction Loading.

#### MEANING ABBREVIATION ABBREVIATION MEANING

EACH

EQUAL

FACE OF

HEADER

HORIZONTAL

ON CENTER

REQUIRED

SCHEDULE

PLATE

10d @ 6" O.C.

FOR NAILING

SCHED.

SEE SHEARWALL

0

(22X34) SCALE: 1" = 1'-0'

TJI BLKG

SIMPSON A35Z W/

(2) HILTI POMDER

@ SIDE OF POST

8 FLR FRAMING DETAIL

11X17) SCALE: 1/2" = 1'-0"

(22X34) SCALE: 1" = 1'-0"

DRIVEN FASTENERS

MANUFACTURE

MANUFACTURED

BOTT

BRG.

COL.

CONN

CONT

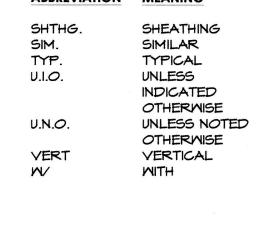
F.O.

HDR

HORIZ

REQ'D

PARALLEL BUILT UP BLOCKING U.I.O. BOTTOM BEARING CLEAR U.N.O. COLUMN CONNECTION VERT CONTINUE DIAMETER DOUBLE



2X @ 16" O.C.

TREATED

SEE PLAN

MIN U.N.O.

3D TYP. WALL CONSTRUCTION DETAIL

1'-4" MIN

U.N.O.

#4 # 18" O.C. VERT

#4 # 12" O.C. HORIZ

SEE SHEARWALL SCHED.

2X BLKG @ 48" O.C. WHEN

16d EA. SIDE

16d @ 8" O.C.

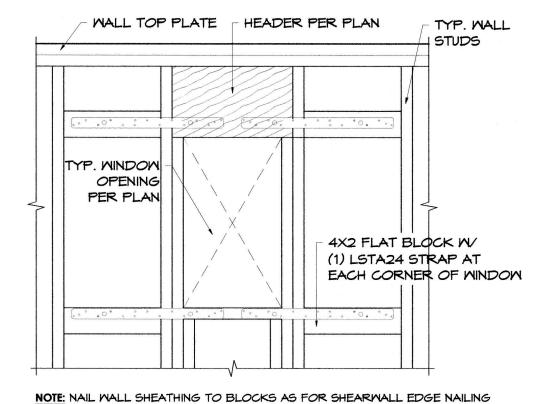
1/2"PW GUSSET

(2) #4 CONT

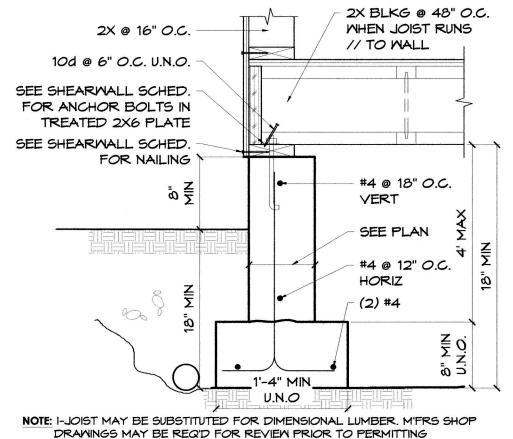
JOISTS RUNS // TO WALL

FOR ANCHOR BOLTS IN

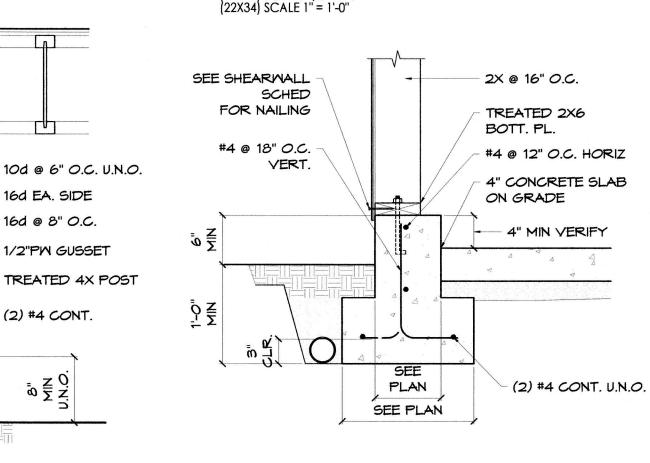
2X (1 1/2" X 6") PL.



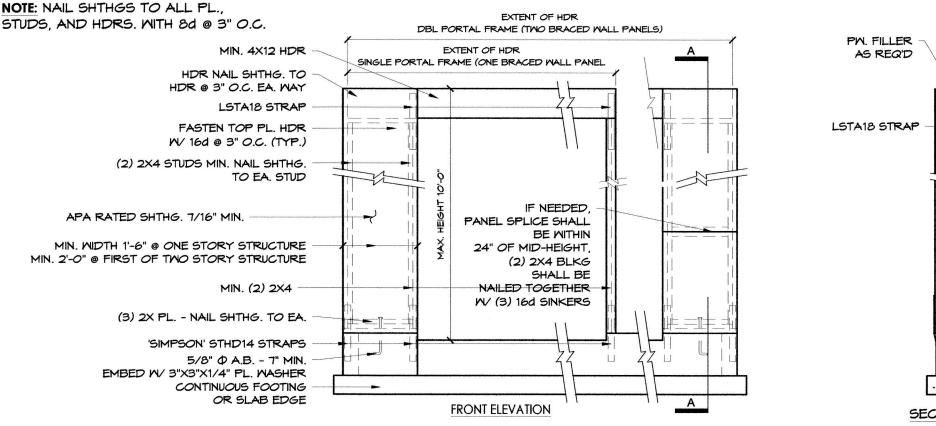
# 2 WINDOW STRAPPING DETAIL



### AS SPECIFIED IN THE WOOD STRUCTURAL NOTES ON THIS SHEET TYP. WALL CONSTRUCTION DETAIL



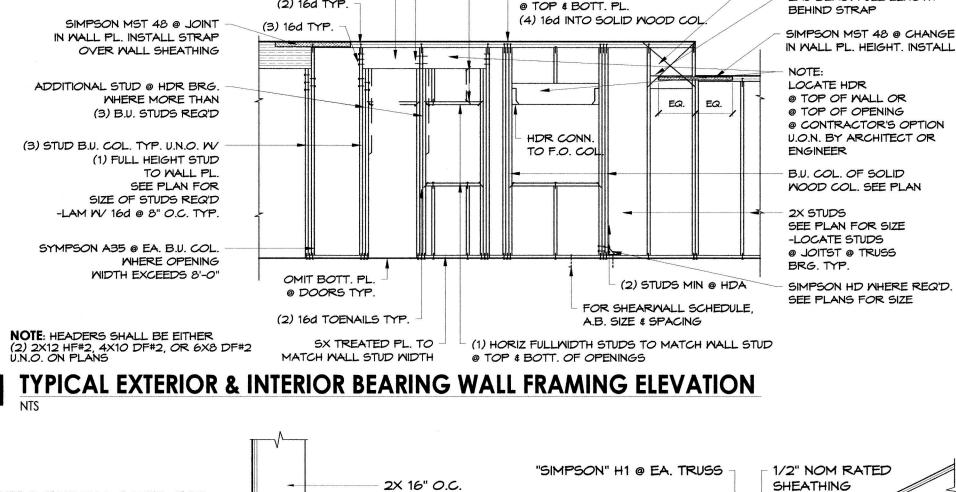
#### **ALTERNATE FTG DETAIL** (11X17) SCALE: 1/2" = 1'-0' (22X34) SCALE : 1" = 1'-0"



## 11 LATERAL RESTRAINT PORTAL (LRP)

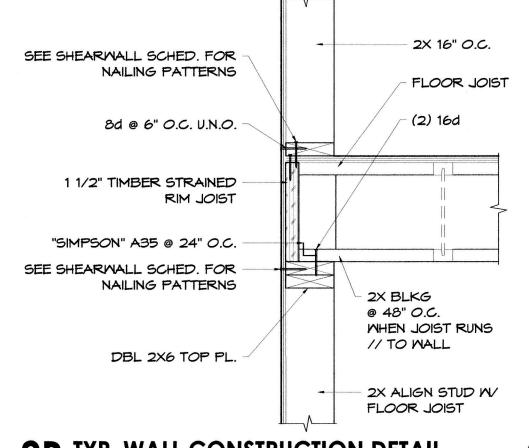
THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION



(2) 16d TOENAILS @ CTR FULL HEIGHT STUD

(2) 16d TOENAILS TYP.



LOCATION OF HDF'S WHERE REQ'D

- SEE NOTE FOR HDR SIZE U.N.O. ON FLOOR PLAN

@ UNDERSIDE OF TOP PL

## 3B TYP. WALL CONSTRUCTION DETAIL (22X34) SCALE: 1" = 1'-0"

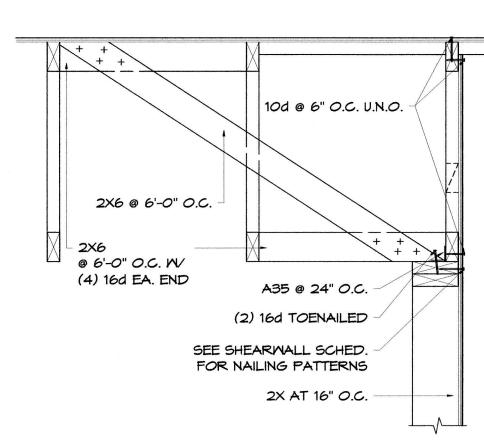
	SHEARING	LL NAILING	SCHEDULE	
MARK (SHEAR CAPACITY)	WALL TYPE	PANEL EDGE NAILING (1) AND (2)	INTERMEDIATE NAILING (2)	BOTT. PL. ANCHOR BOLTING OR NAILING (5)
(200 lb/ft)	1/2" CDX PW. OSB. ONE SIDE	8d @ 6" O.C.	8d @ 12" O.C.	1/2" A.B. @ 48" O.C. OR 16d @ 7 1/2" O.C
2 (350 lb/ft)	1/2" CDX PW. OR OSB, ONE SIDE	8d @ 3 1/2" O.C.	8d @ 12" O.C.	5/8" A.B. @ 40" O.C. OR 16d @ 4" O.C.
(3) (700 lb/ft)	1/2" CDX PM. OR OSB, BOTH SIDES	8d @ 4" O.C. (4)	8d @ 12" O.C.	3/4" A.B. @ 24" O.C. OR 16d @ 2" O.C.
(11) (200/801b/ft) (W/5)	1/2" GMB, BOTH SIDE	5d COOLER NAILS @ 7" O.C.	5d COOLER NAILS @ 7" O.C.	1/2" A.B. @ 48" O.C. OR 16d @ 8" O.C.

	(200/8010/ft) (M/S)	BOTH SIDE	@ 7" O.C.	. @ 7	" O.C.	OR 16d @ 8" O.C.
SHE	AR WALL	SCHED. NO	OTE:	NAIL	5 - MIN. RE	QUIREMENTS
1.	BLOCK A SEE NAILS	LL PANEL E	DGES	NAIL DESCRIPTION	MIN. MIRE DIAMETER	MIN. PENETRATION REQ'D FOR LATERAL STRENGT
	REQUIREN			5d COOLER	0.086"	1.12"
3.		SHALL BE	and the second second	6 d	0.099"	1.25"
4.		ER, KINL-DR STUDS AND	2000 000	8 d	0.113"	1.25"
ч.	@ PANEL			10 d	0.128"	1.50"
		LL 3 ONLY	no es escul manage	16 d	0.141"	1.75"
5.	MIN. 3" BY PL. WASH	BOLTS SHA ( 3" BY 1/4" ER			J.	

## 6 SHEAR WALL NAILING SCHEDULE

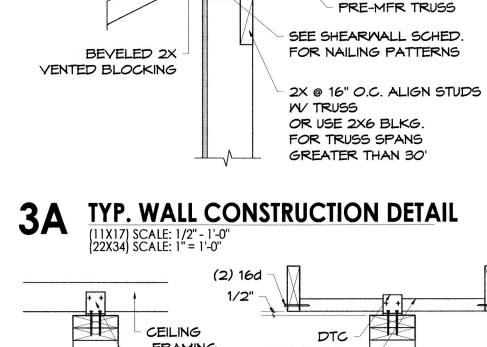
7/16" OBS MAY BE

SUBSTITUTED FOR 1/2" CDX



## 10 GABLE END WALL DETAIL (11X17) SCALE: 1/2" = 1'-0' (22X34) SCALE: 1" = 1'-0"

Approval of submitted plans is not an approval of omissions or oversights by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

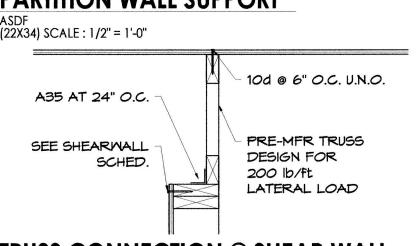


(2) 16d TOENAILS

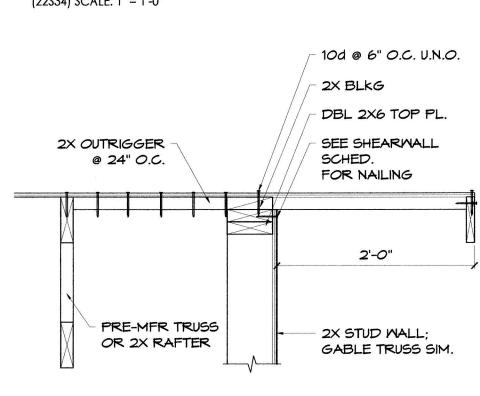
8d @ O.C. U.N.O.

## FRAMING @ 2'-O" O.C. BOTT. CHORD PARALLEL TO FRAMING

## PERPENDICULAR TO FRAMING 1 PARTITION WALL SUPPORT (22X34) SCALE: 1/2" = 1'-0"



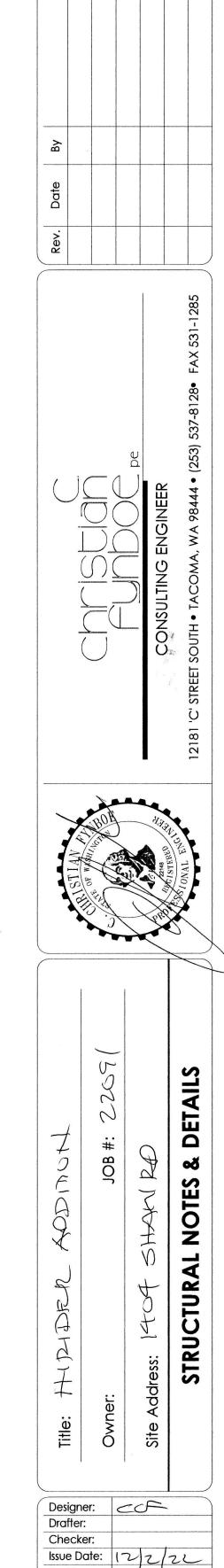
# **5 TRUSS CONNECTION @ SHEAR WALL**



## **Q** OUTLOOKER AT GABLE (11X17) SCALE: 1/2" = 1'-0" (22X34) SCALE: 1" = 1'-0"

City of Puyallu evelopment & Permitti **ISSUED PERM** Building Engineering

	City of Puyallup
	Building APPROVED
up ng Services IIT	See permit for additional requirements. JMontgomery
anning	05/16/2023 10:25:07 AM
lic Works	
raffic	SE PRINCIPAL MASHINGTON



Project Ref.:

Client Ref.:

CAD Ref.:

SHEET NO.

22091

REV.

