

GENERAL NOTES

This building is designed to be constructed in accordance with the provisions of the Uniform Building Code (UBC, 1988) with supplementary specifications as noted.

These notes shall govern unless noted otherwise on the drawings. Refer to written specifications for further requirements and amplification of these notes.

DESIGN LOADS

- Dead Loads:

Ceiling/Mechanical/Electrical Roofing	8 PSF	
	12 PSF	
- Live Loads:

Floor	50 PSF	
Stairs	100 PSF	
Mechanical Room	40 PSF	PLUS EQUIPMENT LOADS NOTED
Snow (Typical)	30 PSF	
- Lateral Loads:

Earth Seismic Wind	50 PSF/FT @ Basement	
	Zone 2B UBC (I=1.25)	
	80 MPH (Exposure B) UBC	

CONCRETE

- Concrete Mix Requirements as per ACI 318-83:

Type	Use	Strength * PSI f'c	Aggregate Size (inches)	Water Slump (inches)	Max Water/ Cement Ratio	% Air
A	Sidewalk	3000	3/4	3	0.60	5-7
B	Footings	3000	1-1/2	3	0.60	---
C	Exposed to Weather	4000	3/4	4	0.50	5-7
D	Interior Slab-on-Grade	3500	3/4	3	0.40	2 max
E	Lean Concrete	2000	3/4	4	0.70	---
F	All Others	4000	3/4	4	0.50	---

- * Specified concrete strength at 28 days.
- Conduits embedded within slab, wall or beam shall have:
 - Diameter smaller than 1/4 x member thickness.
 - Spacing greater than 4 x conduit diameter.
 - All exterior slabs & interior truck slabs shall include polyfiber reinforcing (CFP).

REINFORCING

- Deformed Billet Steel, ASTM 615, Grade 60
- Securely tie reinforcing bars in place with double annealed iron wire. Support reinforcing on approved chairs or well cured 4,000 psi concrete blocks @ 4'0" oc each way max.
- Welding of reinforcing bars not shown on drawings requires approval of the architect.
- Tack welding of ASTM A615 reinforcement to other bars, plates, angles, etc., is prohibited.
- Concrete Cover:

Cast against earth	3"
Formed surfaces exposed to earth or weather: #5 or smaller #6 or larger	1-1/2" 2"
Not exposed to earth or weather: #11 or smaller	3/4"
Beam or column stirrups & ties	1-1/2"
- Trim bars around openings in reinforced concrete slabs or walls may be omitted when the opening dimensions are less than:

12" on all sides (rectangular) or 16" diameter (circular)
--

When a rebar is interrupted by such an opening, relocate it along one side of the opening and add an identical bar on the other side. Alternatively, it may be sprung around the opening with no additional rebar required if it lies within 3" of the edge.

FOUNDATION

- Allowable design soil bearing pressure: 1500 psf
- Minimum footing depths:

Interior: Bottom of footing 1'-0" below top of slab-on-grade
Exterior: Bottom of footing 3'0" below finished grade

Verify finished grade elevations with architectural drawings.
- Maximum slope between adjacent footings:

2 Horizontal to 1 Vertical

- Foundation design based on assumed silty sand, UBC Table 29B Class 4, with allowable bearing pressure of 1500 psf.

STRUCTURAL STEEL

- All structural shapes and miscellaneous steel shall conform to ASTM A-36. All steel pipe shall conform to ASTM A-53, Grade B. See specs for paint and touch up painting after erection. Steel work shall conform to the AISC "Specifications for Design, Fabrication, and Erection of Structural Steel for Buildings." Welding to be in accordance with AWS specification D1.1.

WOOD

- Framing Lumber
- All framing as shown on Structural drawings to be Douglas Fir/Larch in the following grades:
- | | | |
|------------------|--------|-----|
| 2x4 Construction | Const. | S/D |
| 2x6 through 2x12 | No. 2 | S/D |
| Blocking | No. 2 | S/D |
- Glued-Laminated Timber
- Glued-Laminated Timber to be DF/Larch combination 24F-V8 Industrial Appearance (Fb = 2400 psi). Fabrication, handling, storage and erection shall conform to AITC specifications. Do not camber unless noted on plans. Exposed glulams at entry shall be DF / Larch, Architectural Appearance combination 20F-V8 (Fb = 2000 psi).
- Prefabricated Roof Trusses
- Fabricator to submit calculations for trusses designed by a structural engineer currently licensed in the State of Washington. Designed according to the following loads:
- | | | |
|-----------|----|------------------------|
| Top chord | DL | 8 psf (roofing) |
| | LL | 30 psf (snow) |
| Bot chord | DL | 8 psf (ceil/mech/elec) |
- * DL given is in addition to weight of truss. Provide bridging and bracing for 10 PSF net uplift.
- Framing Accessories
- Metal clips, hangers, caps, ties, etc. called out by numbers and letters on plans are "strong tie" by Simpson Co. (Catalog No. C-90H-1) or an approved substitution.
- Timber Connections
- All rafters, beams, joists, columns to be connected with Simpson "strong tie" connectors or an approved substitution. Simpson designations shown on drawings.
- Fasteners
- All bolts to be ASTM A 307. Provide washers or plates between nuts, bolt heads, and all lag screws and wood surfaces. All nails to be common.
- Exterior Finishes
- All exterior connections, plates and fasteners to be galvanized.

BRICK VENEER

- Anchored veneer shall be installed per UBC Section 3006. Veneer shall be anchored to backing with 9 gage galvanized wire anchors spaced at 16" oc horizontal and 18" oc vertical max. Wire ties are to be fully bedded in mortar.

MASONRY

- Minimum Compressive Strengths at 28 Days:

Hollow Concrete Units (avg. of 3 units) (Grade N Type I)	1000 PSI on Gross Area 1900 PSI on Net Area
Mortar (Type S)	1800 PSI
Grout	2000 PSI
- Masonry Design Strengths:

Typical	f'm = 1500 PSI
Grouted Solid	f'm = 1500 PSI
- Fill all cells with grout in 5'0" max lifts unless approved by the architect.

SPECIAL INSPECTION

- Forms & Reinforcing: All reinforcing, sub base, vapor barrier & form work shall be inspected.
- Concrete Placement: Periodic Inspection
- Concrete Testing: As per UBC Chapter 26

DRAWING NOTES

- Do not penetrate beams, joists or columns unless approved by the architect or noted on the structural drawings.
- Not all openings are shown on structural plans. See architectural and mechanical drawings for sizes and locations of all openings.
- Repetitive fasteners to be located not more than 6" from the end of member.

ABBREVIATIONS

AB Anchor Bolt
ADD'L Additional
ALT Alternate
ARCH Architect
AWS American Welding Society
ADH Adhesive

BET Between
BLDG Building
BM Beam
BOT Bottom
BOD Bottom of Deck
BP Button Punch

C-GROUT Coarse Grout
CFP Polyfiber (See Specs)
CIP Cast In Place
CL Center Line
CLR Clear
CM-GROUT Coarse Masonry Grout
CMU Concrete Masonry Unit
COL Column
CONC Concrete
CONN Connection
CONT Continuous
CNTR Centered

DBA Deformed Bar Anchor
DBL Double
DET Detail
DIA Diameter
DIM Dimension
DP FTG Deep Footing
DWG, DWGS Drawing, Drawings
DWL, DWLS Dowel, Dowels

EA Each
EF Each Face
EW Each Way
EL Elevation
ELEV Elevator
EXP Expansion
EXIST Existing

FAB Fabricate
FDN Foundation
F-GROUT Fine Grout
FIN Finish
FLR Floor
FM-GROUT Fine Masonry Grout
FT Feet
FTG Footing
FCJ Floor Control Joint
FLI Ferrule Loop Insert

GA Gage
CALV Galvanized
CR Grade
GLB Glue-Lam Beam

HCS Hollow Core Slab
HORIZ, H Horizontal
HSB High Strength Bolt
HT Height

ICMU Insulated CMU
IF Inside Face
INFO Information

JST Joist
JT, JTS Joint, Joists

LGT Longitudinal
LLH Long Leg Horizontal
LLV Long Leg Vertical
LNDG Landing
MATL Material
MAX Maximum
MB Machine Bolt (A-307)
MEZZ Mezzanine
MFR Manufacturer
MIN Minimum
MLB Micro-Lam Beam

N-GROUT Non Shrink Grout
NOM Nominal
OC On Center
OPG Outside Face
OPP Opening Opposite

PC Plate
PC Precast Concrete
PLYWD Plywood

R Radius
RC Reinforced Concrete
REINF Reinforcing
RETG Retaining
RFRE Random Fiber Reinf
Elastomeric

SEC Security
SCH Schedule
SECT Section
S FTG Stepped Footing
SIM Similar
SPA Spacing
SQ Square
STD Standard
STG'D Staggered
STL Steel
STRUCT Structural
SYM Symmetrical
SOG Slab-On-Grade

T & B Top and Bottom
THD Thread, Threaded
TOC Top of Concrete
TOP Top of Footing
TOP Top of Parapet
TPG Top of Steel
TYP Topping
TRANS Transverse
TYP Typical

UNO Unless Noted Otherwise
VERT, V Vertical

W/ With
WL Working Load
WPT Work Point
WR DECK Wide Rib Deck (Steel)
WS Weld Stud
WWF Welded Wire Fabric
WCJ Wall Control Joint

X-STR Extra Strong
XX-STR Double Extra Strong

LEGEND

- Column in plan - Stops at this Level
Column in plan - Continues above this Level
Hold Down
Footing Size Mark
Simpson (or equiv) "Strong Tie" Timber Connector

- Shear Stud wall in plan
Structural Stud wall in plan
Cast-In-Place Concrete in plan or section
Floor Control Joint (FCJ)
Outline of Brick Veneer

- Slab Depression
Depressed Slab in Plan

- Direction of Framing
Extent of Framing

- DETAIL REFERENCE SYMBOLS:
Denotes Section Number & Direction of View
Denotes Sheet Detailed on
Denotes Section Number
Denotes sheet referenced from

REINF SIZE	HORIZONTAL LAP		VERTICAL LAP	
	TYP	STAGGERED	TYP	STAGGERED
#3	1'9"	1'7"	1'6"	1'4"
#4	2'4"	2'2"	1'8"	1'6"
#5	3'0"	2'4"	2'2"	1'8"
#6	3'10"	2'10"	2'8"	2'0"
#7	4'8"	3'6"	3'4"	2'6"
#8	6'2"	4'8"	4'4"	3'4"
#9	7'10"	5'10"	5'6"	4'2"
#10	9'8"	7'6"	6'10"	5'4"
#11	12'0"	9'2"	8'6"	6'6"

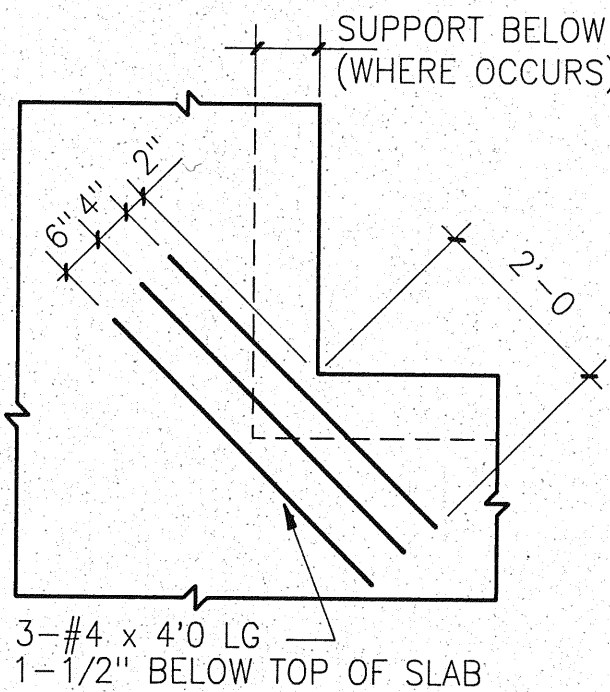
NOTES:

- FOR STAGGERED LAPS: NO MORE THAN HALF OF THE BARS MAY BE SPLICED IN THE SAME LOCATION
- USE VERT SPLICE TABLE FOR HORIZ REINF IF LESS THAN 12" OF CONC BELOW BAR

REINFORCING LAP SPLICE

1

TYP

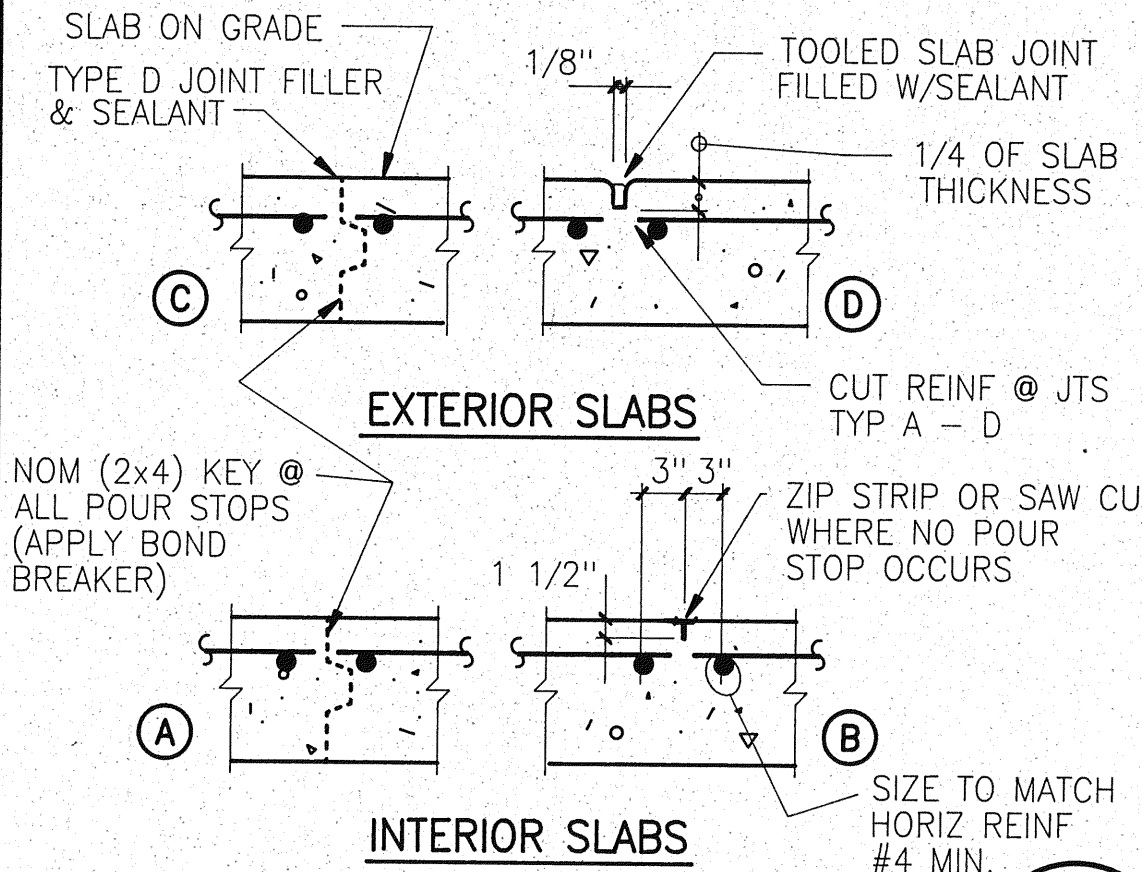


USE IN STRUCTURAL SLABS & SLABS-ON-GRADE AT OPNGS OR DEPRESSIONS WHERE NO FCJ'S OCCUR

ADDITIONAL SLAB REINFORCING AT REENTRANT CORNERS

2

TYP

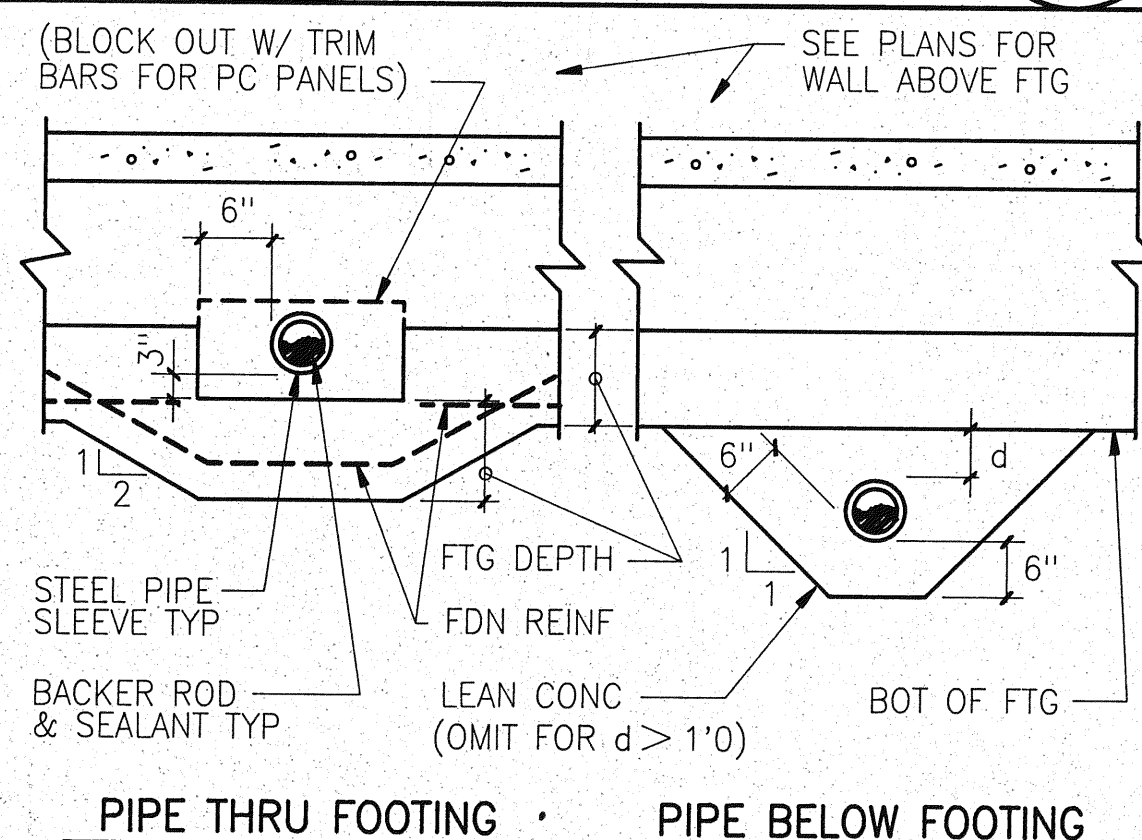


FLOOR CONTROL JOINT (FCJ)

MAX SPACING TO BE 20'0" OC

3

TYP



PIPE THRU FOOTING PIPE BELOW FOOTING

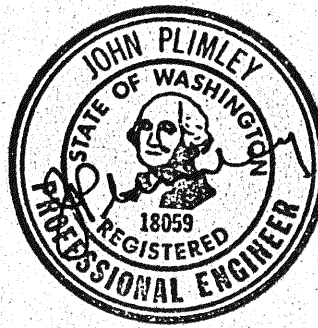
MECH./ELECT./UTILITY LINE BELOW GRADE

4

TYP

CITY OF
COLLEGE PLACE
MUNICIPAL
BUILDING

COLLEGE PLACE,
WASHINGTON



Architects & Engineers

INTÉGRUS
ARCHITECTURE

244 West Main Avenue
Spokane, Washington 99201
509/838-8681
FAX 509/838-2194

Mechanical/Electrical Engineers

MW Consulting Engineers
Great Northwest Bldg., Suite 200
222 North Wall Street
Spokane, Washington 99201-0877
509/838-9020
FAX 509/838-1123

Job Number 9119.50
Drawn By
Checked By J.C.
Date 9-10-91
Revisions

Sheet Contents
GENERAL NOTES & TYPICAL
DETAILS

S1.1