STRUCTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	I	MOMENT OF INERTIA
A.B.	ANCHOR BOLT	IBC	INTERNATIONAL BUILDING CODE
A.B.C.	AGGREGATE BASE COURSE	ID.	IDENTIFICATION, INSIDE DIAMETER,
A.C.I.	AMERICAN CONCRETE INSTITUTE	INCL.	INCLUDED
ADD'L.	ADDITIONAL	INFO.	INFORMATION
ADDN.	ADDITION	INT.	INTERIOR
ADH.	ADHESIVE	L.	ANGLE
ADJ.	ADJACENT, ADJOINING, OR ADJUSTABLE	LBS.	POUND
A.F.F.	ABOVE FINISHED FLOOR	L.F.	LINEAR FEET (FOOT)
A.F.G.	ABOVE FINISHED GRADE	LH	LEFT HAND
A.F.S.	ABOVE FINISHED SLAB	LIN.	LINEAR
AGGR.	AGGREGATE	LLH	LONG LEG HORIZONTAL
AHR.	ANCHOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LT. GA.	LIGHT GAGE
ALT.	ALTERNATE	LT. WT.	LIGHTWEIGHT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LWC	LIGHTWEIGHT CONCRETE
APA	AMERICAN PLYWOOD ASSOCIATION	LYR.	LAYER
APPD.	APPROVED		
APPROX.	APPROXIMATE	MAINT.	MAINTENANCE
AR	AS REQUIRED	MAN.	MANUAL
ARCH.	ARCHITECT	MATL.	MATERIAL
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	MAX.	MAXIMUM
ASPH.	ASPHALT	M.B.	MACHINE BOLT
ASSN.	ASSOCIATION	MECH.	MECHANICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MEZZ.	MEZZANINE
ATCH.	ATTACHMENT	MFD.	MANUFACTURED
AWS	AMERICAN WELDING SOCIETY	MFG.	MANUFACTURING
		MFR.	MANUFACTURER
B PL.	BASE PLATE	MFR. REC.	MANUFACTURER'S RECOMMENDATION
BLDG.	BUILDING	MID.	MIDDLE
BM.	BEAM	MIN.	MINIMUM
BOT.	BOTTOM	MISC.	MISCELLANEOUS
B.O.	BOTTON OF	mm	MILLIMETER
BRG.	BRACING	MTL.	METAL
BRDG.	BRIDGING		
BRG.	BEARING	N/A	NOT APPLICABLE
BRG. PL.	BEARING PLATE	NOM.	NOMINAL
BTWN.	BETWEEN	NTS	NOT TO SCALE
BUR	BUILT-UP ROOFING	N.S.	NEAR SIDE
C CONC.	CAST CONCRETE	O.C.	ON CENTER
C TO C	CENTER TO CENTER	O.D.	OUTSIDE DIAMETER OUTSIDE DIMENSION
CD	CONSTRUCTION DOCUMENTS	OPH	OPPOSITE HAND
CFMF	COLD-FORMED METAL FRAMING	OPNG.	OPENING
CIP	CAST-IN-PLACE	OPP.	OPPOSITE
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT	OSHA	OCCUPATIONAL SAFETY &
CL	CENTER LINE		HEALTH ADMINSTRATION
CLR.	CLEAR		
CMU	CONCRETE MASONRY UNIT	PAR.	PARALLEL OR PARAPET
COL.	COLUMN	P.C.C.	PRECAST CONCRETE
CONC.	CONCRETE	PERF.	PERFORATED
CONN.	CONNECTION	PLYWD.	PLYWOOD
CONSTR.	CONSTRUCTION	PREP.	PREPARATION
CONT.	CONTINUE	PSF	POUNDS PER SQUARE FOOT
CONTR.	CONTRACTOR	PSI	POUNDS PER SQUARE INCH
COORD.	COORDINATE		
COTR.	CONTRACTING OFFICER'S TECHNICAL REPRESENTITIVE	QTY.	QUANTITY
CRS	COLD ROLLED STEEL		
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	REF.	REFERENCE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	REINF.	REINFORCEMENT, REINFORCE
CSK.	COUNTER SUNK	REQ.	REQUIRE
		REQ'D.	REQUIRED
D	DEPTH OR PENNY (NAIL)	RFI	REQUEST FOR INFORMATION
DBL.	DOUBLE		
DEL.	DELETE	SCHED.	SCHEDULE
DEMO.	DEMOLITION	SCHEM.	SCHEMATIC
DEPT.	DEPARTMENT	SECT.	SECTION
DTL.	DETAIL	S.F.	SQUARE FOOT (FEET)
DIA.	DIAMETER	SHT.	SHEET
DIAG.	DIAGONAL	SHTHG.	SHEATHING
DIFF.	DIFFERENCE	SIM.	SIMILAR
DIM.	DIMENSION	SJI	STEEL JOIST INSTITUTE
DIR.	DIRECTION	SOG	SLAB ON GRADE
DIST.	DISTANCE	SPEC.	SPECIFICATION
DIV.	DIVIDE OR DIVISION	SQ.	SQUARE
DL	DEAD LOAD	SQ. IN.	SQUARE INCH
DOC.	DOCUMENT	STD.	STANDARD
D.F.	DOUGLAS FIR	STL. JST.	STEEL JOIST
DWG.	DRAWING	STL. LNTL.	STEEL LINTEL
		STL. PL.	STEEL PLATE
EA.	EACH	STL. RF. DK.	STEEL ROOF DECK
ELEV.	ELEVATION	STL. TB.	STEEL TUBE
ENGR.	ENGINEER	STL. TR.	STEEL TRUSS
E.N.	EDGE NAILING	STR.	STRINGERS
EQ.	EQUAL	STRUCT.	STRUCTURAL
EQL. SP.	EQUALLY SPACED	STRUCT. STL.	STRUCTURAL STEEL
EQUIP.	EQUIPMENT	SUB	SUBSTITUTE
ETC	AND SO FORTH OR ET CETERA	SURF.	SURFACE
E.W.	EACH WAY	SUSP.	SUSPEND
EXIST.	EXISTING	SUSP. CLG.	SUSPENDED CEILING
EXP.	EXPANSION OR EXPOSED	SYM.	SYMBOL
EXT.	EXTERIOR		
		T&G	TONGUE AND GROOVE
FAS.	FASCIA	T&M	TIME AND MATERIALS
FDTN.	FOUNDATION	TB	THROUGH BOLT OR TOWEL BAR
F.F. EL.	FINISH FLOOR ELEVATION	TECH.	TECHNICAL
FIG.	FIGURE	TEMP.	TEMPERATURE OR TEMPORARY
FIL.	FILLET	THK.	THICKNESS
FIN.	FINISH	THRU.	THROUGH
FIN. FLR.	FINISH FLOOR	THRUOUT	THROUGHOUT
FIN. GR.	FINISH GRADE	T.O	TOP OF
FLR.	FLOOR	T.O. FTG.	TOP OF FOOTING
FLR. FIN.	FLOOR FINISH	T.O.BM.	TOP OF BEAM
F.O.C.	FACE OF CONCRETE OR FACE OF CURB	T.O.M.	TOP OF MASONRY
F.O.S.	FACE OF SLAB OR FACE OF STUD	T.O.P.	TOP OF PARAPET
F.O.W.	FACE OF WALL	T.O.S.	TOP OF STEEL
FRMG.	FRAMING	T.O.W.	TOP OF WALL
FT.	FEET OR FOOT	TYP.	TYPICAL
FTG.	FOOTING		
F.S.	FAR SIDE		
		VAR.	VARIES
GA.	GAUGE OR GYPSUM ASSOCIATION	VERT.	VERTICAL
GALV.	GALVANIC OR GALVANIZED	VEST.	VESTIBULE
GALV. STL.	GALVANIZED STEEL	VIF	VERIFY IN FIELD
G.C.	GENERAL CONTRACTOR	VNR.	VENEER
GLU LAM	GLUED LAMINATED WOOD	V.R.	VAPOR RETARDER
GSB	GYPSUM SHEATHING BOARD		
GT.	GROUT	W/	WITH
GYP. BD.	GYPSUM BOARD	W/O	WITHOUT
		WARR.	WARRANTY
HDR.	HEADER	WD.	WOOD
HCA	HEADED CONCRETE ANCHOR	WF	WIDE FLANGE
HGR.	HANGER	WT	WEIGHT
HORIZ.	HORIZONTAL	WWF	WELDED WIRE FABRIC
H.S.	HIGH STRENGTH		
HT.	HEIGHT	X BRACE	CROSS BRACE
HVAC	HEATING, VENTILATING, & AIR CONDITIONIN		

GENERAL STRUCTURAL NOTES

1. DESIGN INFORMATION AND LOADS USED: 2009 INTERNATIONAL BUILDING CODE
   - A. ROOF DEAD LOAD ..... 20 PSF
   - B. FLOOR DEAD LOAD ..... 20 PSF
   - C. OCCUPANCY CATEGORY..... II
   - D. SNOW LOAD:
     - GROUND SNOW LOAD, Pg ..... 20 PSF
     - SNOW EXPOSURE FACTOR, Ce 1.0
     - SNOW IMPORTANCE FACTOR, I 1.1
     - THERMAL FACTOR, Ct 1.0
     - FLAT ROOF SNOW LOAD ..... 25 PSF
   - E. FLOOR LIVE LOAD ..... 80 PSF
   - F. WIND LOAD:
     - BASIC WIND SPEED ..... 90 MPH
     - WIND IMPORTANCE FACTOR 1.0
     - WIND EXPOSURE C
     - INTERNAL PRESSURE COEF. GCpi ..... +/- 0.18
   - G. SEISMIC IMPORTANCE FACTOR, Ie 1.5
     - MAPPED SPECTRAL RESPONSE ACCEL., Ss 0.311g
     - MAPPED SPECTRAL RESPONSE ACCEL., S1 ..... 0.106g
     - SITE CLASS ..... D
     - Fa 1.55
     - Fv 2.38
     - SPECTRAL RESPONSE COEFFICIENT, Sds 0.32
     - SPECTRAL RESPONSE COEFFICIENT, Sd1 ..... 0.17
     - SEISMIC DESIGN CATEGORY ..... D
     - BASIC SEISMIC FORCE RESISTING SYSTEM ..... LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
     - ANALYSIS PROCEDURE ..... EQUIVALENT LATERAL FORCE
     - RESPONSE MODIFICATION FACTOR, R 6 1/2
     - SEISMIC RESPONSE COEFFICIENT USED FOR DESIGN Cs 0.10

2. SPECIAL INSPECTION:
   - A. A SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
   - B. ALL SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
   - C. INSPECTION OF TWENTY PERCENT OF AN OPERATION OR PROCEDURE SHALL BE CONSIDERED ADEQUATE FOR PERIODIC SPECIAL INSPECTIONS.
   - D. CONCRETE

ITEM		FREQUENCY OF INSPECTION
I	INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	PERIODIC
II	INSPECTION OF REINFORCING STEEL WELDING	CONTINUOUS
III	INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	CONTINUOUS
IV	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC
V	SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.	CONTINUOUS
VI	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC
VII	POST-INSTALLED ADHESIVE ANCHORS.	CONTINUOUS

   - E. STRUCTURAL STEEL:

ITEM		FREQUENCY OF INSPECTION
I	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:	
	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC
	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC
II	INSPECTION OF HIGH-STRENGTH BOLTING:	
	BEARING-TYPE CONNECTIONS.	PERIODIC
	SLIP-CRITICAL CONNECTIONS	CONTINUOUS
III	MATERIAL VERIFICATION OF STRUCTURAL STEEL:	
	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC
	MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED.	PERIODIC
IV	MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	
	IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC
	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC
V	INSPECTION OF WELDING:	
	COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS
	MULTI-PASS FILLET WELDS	CONTINUOUS
	SINGLE-PASS FILLET WELDS > 5/16 INCH	CONTINUOUS
	SINGLE-PASS FILLET WELDS < 5/16 INCH	PERIODIC
	FLOOR AND DECK WELDS	PERIODIC
VI	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	
	DETAILS SUCH AS BRACING AND STIFFENING.	PERIODIC
	MEMBER LOCATIONS	PERIODIC
	APPLICATION OF JOINT DETAILS AT EACH CONNECTION	PERIODIC

   - F. COLD FORMED METAL FRAMING

ITEM		FREQUENCY OF INSPECTION
I	WELDING	PERIODIC

3. FOUNDATION:
   - A. AN ALLOWABLE NET SOIL BEARING CAPACITY OF 1,500 PSF WAS USED IN THE DESIGN OF ALL FOOTINGS, PER 2009 IBC TABLE 1804.2.
   - B. FOOTINGS SHALL BE SUPPORTED ON 1.5 FT [457mm] OF COMPACTED STRUCTURAL FILL MATERIAL WRAPPED IN FILTER FABRIC, REINFORCED WITH TWO LAYERS OF APPROVED GEOGRID. THE GEOGRID REINFORCED FILL ZONE SHALL BEAR ON COMPETENT, NATIVE, POORLY GRADED SAND WITH GRAVEL OR COMPACTED STRUCTURAL FILL FOUNDED ON THIS STRATUM. GEOGRID MUST EXTEND A MINIMUM OF ONE FOOT BEYOND THE FOOTING LINE ON ALL SIDES. COORDINATE WITH GEOTECH REPORT FOR GEOGRID AND STRUCTURAL FILL REQUIREMENTS.
   - C. FOR PIPING OR OTHER UTILITIES ALONGSIDE OR PENETRATING THRU FOUNDATION WALLS RE: S3.1-2
   - D. PROVIDE DAMPROOFING AT EXTERIOR FOUNDATION WALLS AT EXTERIOR FACE BELOW FINISHED GRADE.
   - E. BOTTOM OF FOOTING TO BE 24" MIN. BELOW ADJACENT GRADE FOR FROST PROTECTION.

4. CONCRETE:
   - A. THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS .....3,500 PSI
   - B. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
     1. CONCRETE PLACED DIRECTLY AGAINST EARTH – 3 [76mm] INCHES.
     2. FORMED SURFACES: #5 BARS OR SMALLER – 1 1/2 [38mm] INCHES. #6 BARS OR LARGER – 2 [51mm] INCHES.
     3. STRUCTURAL SLABS – 1 [25mm] INCH.
   - C. SAWN CONTROL JOINTS SHALL BE MADE AS SOON AS POSSIBLE WITHOUT DAMAGE TO SURFACE. FILLING OF JOINTS SHALL BE DELAYED AS LONG AS POSSIBLE TO ALLOW MAX. SHRINKAGE TO OCCUR IN SLABS. CW/ DETAIL S3.1-1
   - D. ALL REENTRANT CORNERS SHALL HAVE ADDITIONAL REINFORCEMENT AS SHOWN AT DETAIL. S3.2-1
   - E. PROVIDE (2) #3 BARS, WITH 2'-0" [610mm] PROJECTION ON ALL SIDES OF ALL OPENINGS IN CONCRETE, U.N.O.
   - F. ALL EMBEDDED ANCHOR BOLTS SHALL BE HEADED BOLTS OF MATERIAL CONFORMING TO SPECIFICATIONS UNLESS NOTED OTHERWISE.
   - G. WET SETTING OF ANCHOR BOLTS IS PROHIBITED.
   - H. CONTRACTOR SHALL PROVIDE FORMS AND FRAMING AS REQUIRED FOR ELEVATED SLABS AT EXPOSED EDGES AND OPENINGS TO MAINTAIN EDGES STRAIGHT AND PLUMB AND TRUE.
   - I. REINFORCEMENT IN FOOTINGS & STEM WALLS SHALL BE CONTINUOUS AROUND CORNERS & INTERSECTIONS, RE: S3.1-4
   - J. POST-INSTALLED ADHESIVE ANCHORS
     1. ADHESIVE FOR ANCHORS TO BE 'SIMPSON' "SET-XP" EPOXY ADHESIVE SYSTEM
     2. ANCHORS TO BE A36 THREADED ROD OR EQUAL.
     3. MINIMUM EMBEDMENT LENGTH SHALL BE AS FOLLOWS UNLESS DETAILED OTHERWISE.

ANCHOR DIA (IN.)	MIN. EMBEDMENT (IN.)
3/8" [10mm]	3 1/2" [89mm]
1/2" [12mm]	4 1/4" [108mm]
5/8" [16mm]	5" [127mm]
3/4" [19mm]	6 5/8" [168mm]
1" [25mm]	8 1/4" [210mm]
1 1/8" [29mm]	12" [305mm]

     4. ALL ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

5. REINFORCING STEEL:
   - A. ASTM A615, GRADE 60. BARS TO BE WELDED SHALL BE ASTM A706, GRADE 60.
   - B. MIN. LENGTH OF LAPPED SPLICES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. STAGGER SPLICES IN WALLS SO THAT NO TWO ADJACENT BARS ARE SPLICED IN THE SAME LOCATION UNLESS SHOWN OTHERWISE. MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.

BAR SIZE	SPLICE LENGTH
#3	18" [457mm]
#4	24" [610mm]
#5	30" [762mm]
#6	36" [914mm]
#7	62" [1575mm]
#8	71" [1803mm]
#9	76" [1930mm]

   - C. FORM TIES SHALL BE EITHER THREADED OR THE SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN ONE INCH OF THE WALL SURFACE. RECESSES ARE TO BE FILLED AND POINTED W/ MORTAR.
   - D. PROVIDE BAR SUPPORTS AND SPACERS FOR REINFORCEMENT. PROVIDE CHAIRS W/ 22 GA. SAND PLATES OR PRECAST BLOCKS FOR ALL REINFORCING OF SLABS ON GRADE AND DECK CHAIRS FOR REINFORCEMENT IN SLABS OVER STEEL DECKING. SECURELY TIE REINFORCEMENT TO SUPPORTS.
   - E. DO NOT WELD ANY REINFORCEMENT UNLESS SPECIFICALLY DETAILED.
   - F. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, Fy=75,000 PSI.

6. STRUCTURAL STEEL:
   - A. STEEL DESIGNATIONS: WIDE FLANGE SHAPES (BEAMS & COLUMNS)..... ASTM A992
     - OTHER ROLLED SHAPES & MISCELLANEOUS PLATE ..... ASTM A36 (U.N.O.)
     - MOMENT FRAME CONNECTION CONTINUITY AND WEB DOUBLER PLATES.... ASTM A572
     - HOLLOW STRUCTURAL SECTIONS (HSS) ..... ASTM A500, GRADE 'B'
   - B. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 BOLTS UNLESS NOTED OTHERWISE. IF A CERTAIN SITUATION IS NOT DETAILED USE A SIMILAR DETAIL. CONNECTIONS SHALL GENERALLY FOLLOW THE TYPES SHOWN IN AISC MANUAL OF STEEL CONSTRUCTION.
   - C. ALL ELEVATIONS AND HEIGHTS GIVEN ARE FROM THE FINISHED FIRST FLOOR DATUM ELEVATION, WHICH IS SET AT 100'-0".
   - D. BASE PLATE ANCHOR ROD HOLES MAY BE OVERSIZED AS FOLLOWS:

ROD DIA.(IN)	HOLE DIA.(IN)	MIN. WASHER DIA.(IN)	WASHER THICKNESS
3/4"	1 1/4"	1 7/8"	N.A.
1"	1 1/2"	2 5/8"	3/8"

     SQUARE PLATE WASHERS FABRICATED FROM ASTM A36 MATERIAL ARE ACCEPTABLE, MIN. SIDE LENGTH = MINIMUM DIAMETER.
   - E. COMPLETE JOINT PENETRATION WELDS BETWEEN BEAM FLANGES AND COLUMNS SHALL BE CONSTRUCTED AS FOLLOWS. TOP FLANGE: EITHER REMOVE WELD BACKING, BACKGOUGE, AND ADD 5/16" MIN. FILLET WELD OR LEAVE BACKING IN PLACE AND ADD 5/16" FILLET UNDER BACKING. BOTTOM FLANGE: REMOVE WELD BACKING, BACKGOUGE, AND ADD 5/16" MINIMUM FILLET WELD.
   - F. WELD ACCESS HOLES AT MOMENT CONNECTIONS SHALL BE AS RECOMMENDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA 350, CHAPTER 3.

7. WOOD FRAMING:
   - A. ROUGH FRAMING:
     1. LEDGERS, PLATES, STUDS, & OTHER STRUCTURAL LUMBER SHALL BE DOUGLAS FIR NO. 2 OR BETTER.
     2. LEDGERS AND PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
     3. ALL HEADERS TO BE (2) 2x6 DF. #2, U.O.N.
   - B. ALL NAILS SHALL BE COMMON TYPE NAILS.
   - C. EXTERIOR WOOD STUD WALL CONSTRUCTION
     1. USE 2X6 DF. #2 STUDS AT 16" O.C.
     2. PROVIDE 7/16" EXT OSB SHEATHING. FASTEN W/ 16 GA.x1 1/2" STAPLES AT 6" O.C. ALL EDGES AND AT 10" O.C. TO INTERMEDIATE FRAMING U.N.O., CW/ SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING REQUIREMENTS.
     3. PROVIDE 2X6 BLOCKING AT ALL WALL SHEATHING EDGES AS REQ'D. FOR NAILING.
   - D. ALL PLY/OSB NAILING SHALL BE 3/8" MIN. FROM PANEL EDGES. PROVIDE 1/8" SPACING BETWEEN PANEL EDGES BY MEANS OF NAILS OR SIMPSON PSCL SHEATHING CLIPS.
   - E. ALL NAILING SHALL, AT A MINIMUM, MEET THE REQUIREMENTS OF IBC CHAPTER 23 TABLE 2304.9.1 NAILING SCHEDULE.
   - F. ALL REFERENCE TO 'SIMPSON' INDICATES STRUCTURAL CONNECTIONS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC.
   - G. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALL SIMPSON, OR EQUAL, CONNECTIONS.
   - H. PROVIDE SIZE, TYPE, AND QUANTITY OF FASTENERS RECOMMENDED BY METAL WOOD CONNECTOR MANUFACTURER UNLESS NOTED OTHER WISE. DETAILS SHOWING CONNECTOR FASTENERS ARE DIAGRAMMATIC.
   - I. RE: S3.1-15 FOR TYPICAL TOP PLATE SPLICE DETAILING.

8. WALL SHEATHING:
   - A. WALL SHEATHING TO BE APA RATED SHTG. MEETING THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1-07. PLYWOOD SHALL HAVE EXPOSURE 1 DURABILITY WITH A SPAN RATING OF 32/16.
   - B. TYPICAL WALL SHEATHING SHALL BE FASTENED WITH 8d NAILS AT 6" O.C. AT PANEL EDGES, AND 8d NAILS AT 12" AT INTERMEDIATE FRAMING. SEE DRAWING S2.1 FOR NAILING REQUIRED AT SHEAR WALLS.
   - C. SEE PLAN SHEET FOR SHTG. THICKNESS & OTHER NAIL SPACING.

9. ROOF SHEATHING:
   - A. ROOF SHEATHING TO BE 7/16" PLYWOOD MEETING THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1-07. SHEATHING SHALL HAVE EXPOSURE 1 DURABILITY WITH A SPAN RATING OF 32/16.
   - B. ROOF SHEATHING TO BE FASTENED WITH 8d COMMON NAILS AT 6" O.C. AT SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS.
   - C. ROOF SHEATHING TO BE ORIENTED WITH LONG AXIS PERPENDICULAR TO THE ROOF TRUSSES, STAGGERED AS SHOWN ON DRAWINGS.

10. STRUCTURAL COLD FORMED STEEL FRAMING:
    - A. ALL STRUCTURAL MEMBERS SHALL HAVE A MIN. YIELD STRENGTH OF Fy= 50 KSI.
    - B. ALL CONNECTIONS SHALL BE WELDED (UNLESS NOTED OTHERWISE) AND SHALL BE 1/16" MIN. FILLET WELDS & 1/8" MIN. FLARE BEVEL WELDS. IF A CERTAIN CONNECTION IS NOT DETAILED, USE A SIMILAR DETAIL.
    - C. MINIMUM NET EFFECTIVE SECTION PROPERTIES SHALL BE AS FOLLOWS:

STRUCTURAL LIGHT GAUGE STEEL FRAMING SCHEDULE				
MINIMUM NET EFFECTIVE SECTION PROPERTIES				
SIZE AND GAUGE	AREA IN^2	Sx IN^3	Ix..IN^4	Fy ksi (MIN.)
600S200-54	.613	1.1	3.31	50
400S162-54	.443	.55	1.1	50

    - D. TYPICAL STUD SPACING SHALL BE 16" O.C. UNLESS NOTED OTHERWISE ON PLANS
    - E. PROVIDE STRAP/BLOCKING AT 4'-0" O.C. FULL HEIGHT OF WALLS PER S3.2-17, TYP.
    - F. CW/ ARCH. FOR ALL NON-STRUCTURAL STUD WALL FRAMING.
    - G. RE: S3.2-18 & 19 FOR TYPICAL HEAD, SILL AND JAMB DETAILING.

11. STEEL FLOOR DECK:
    - A. USE TYPE B FORMLOK DECK (VERCO), 20 GA., PAINTED. RE: FRAMING PLANS FOR CONCRETE TOPPING THICKNESS.
    - B. THE FASTENING SHALL BE:
      - SIDE LAPS..... BUTTON-PUNCH AT 24" [610mm] O.C.
      - ENDS..... (4) 5/8" DIA. ARC SPOT WELDS PER PANEL
      - BUILDING PERIMETER..... 5/8" DIA. ARC SPOT WELDS AT 6" [152mm] O.C.
      - INTERMEDIATE SUPPORTS..... (4) 5/8" DIA. ARC SPOT WELDS PER PANEL
    - C. THE ELEVATED CONC. DECK SHALL BE REINFORCED WITH 6X6-W2.9XW2.9 WWF. LOCATED 1" [25mm] FROM TOP OF CONCRETE.
    - D. CONTRACTOR SHALL PROVIDE POURSTOPS AT ALL CONC. EDGE ABLE TO SUPPORT WET WEIGHT OF CONC. AND OTHER CONSTRUCTION LOADS W/ DEFLECTION NO MORE THAN 1/16" FROM HORIZONTAL, UNLESS NOTED OTHERWISE.

12. STEEL ROOF DECK:
    - A. TYPICAL ROOF DECK:
      1. USE VERCO HSB-36 DECK, 20GA. PAINTED.
      2. RE: ROOF FRAMING PLANS FOR ATTACHMENT REQUIREMENTS.
      3. COORDINATE ALL OPENINGS IN THE ROOF DECK WITH MECHANICAL AND ARCHITECTURAL DISCIPLINE.
      4. DECK MUST BE CONTINUOUS OVER 2 SPANS UNLESS OTHERWISE SHOWN.
    - B. SUBSTITUTIONS:
      1. "VERCO" PUNCHLOCK CAN BE USED IN LIEU OF TOP SEAM WELDS AT SAME SPACING

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REVISIONS	DATE

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DRAWING TITLE: STRUCTURAL NOTES

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: VAMC PHASE II: BUILDING 33 RENOVATION

BUILDING NUMBER: 33 | CHECKED: BA | DRAWN: MG

LOCATION: VAMC BOISE, IDAHO

DATE: 08/05/11

PROJECT NO.: 531-10-114

DRAWING NO.: S0.1

DWG 47 OF 101

DEPARTMENT OF VETERANS AFFAIRS