

NEW CONSTRUCTION - SHEAR WALL SCHEDULE (See Notes)					
SHEAR WALL TYPE	C-D or OSB SHEATHING	EDGE NAILING	JOISTS or BLOCKS TO TOP PLATE	SOLE PLATE TO JOISTS or BLK'G (where noted)	SILL BOLTS TO CONCRETE
(FIELD-BUILT)	APA RATED	Common Nails	SIMPSON ANCHOR	SDS 1/4" x 4.5" wood screw (Notes 11.15, 6.17)	1/2" x 12" at (Notes 1.3, 6.16)
1	3/8"	8d @ 6" o.c.	A35 at 16" o.c. (24" o.c. at ROOF)	1 screw @ 16" o.c.	48" o.c. 3x SILL PLATE
2	3/8"	8d @ 4" o.c.	A35 at 16" o.c.	1 screw @ 16" o.c.	48" o.c. 3x SILL PLATE
3	3/8"	8d @ 3" o.c.	2-A35 at 16" o.c.	2 screws @ 16" o.c.	32" o.c. 3x SILL PLATE
4	3/8"	8d @ 2" o.c.	2-A35 at 16" o.c.	2 screws @ 16" o.c.	24" o.c. 3x SILL PLATE
5	1/2"	10d @ 6" o.c.	A35 at 16" o.c.	1 screw @ 16" o.c.	48" o.c. 3x SILL PLATE
6	1/2"	10d @ 4" o.c.	2-A35 at 16" o.c.	2 screws @ 16" o.c.	32" o.c. 3x SILL PLATE
7	1/2"	10d @ 3" o.c.	2-A35 at 16" o.c.	2 screws @ 16" o.c.	24" o.c. 3x SILL PLATE
8	1/2"	10d @ 2" o.c.	2-A35 at 16" o.c.	3 screws @ 16" o.c.	16" o.c. 3x SILL PLATE
9	3/8" EACH FACE	8d @ 4" o.c. (Notes 16.4)	A35 at 16" o.c.	3 screws @ 16" o.c. @ 16" o.c. (Notes 4.12)	16" o.c. 3x SILL PLATE
10	3/8" EACH FACE	8d @ 3" o.c. (Notes 16.4)	A35 at 16" o.c.	3 screws @ 16" o.c. @ 16" o.c. (Notes 4.12)	16" o.c. 3x SILL PLATE
11	1/2" EACH FACE	10d @ 3" o.c. (Notes 16.4)	A35 at 16" o.c.	4 screws @ 16" o.c. @ 16" o.c. (Notes 4.12)	12" o.c. 3x SILL PLATE

ALLOWABLE SHEAR LOAD

ALL FIELD NAILING SHALL BE 8d COMMON at 12" o.c., (10d for 1/2")

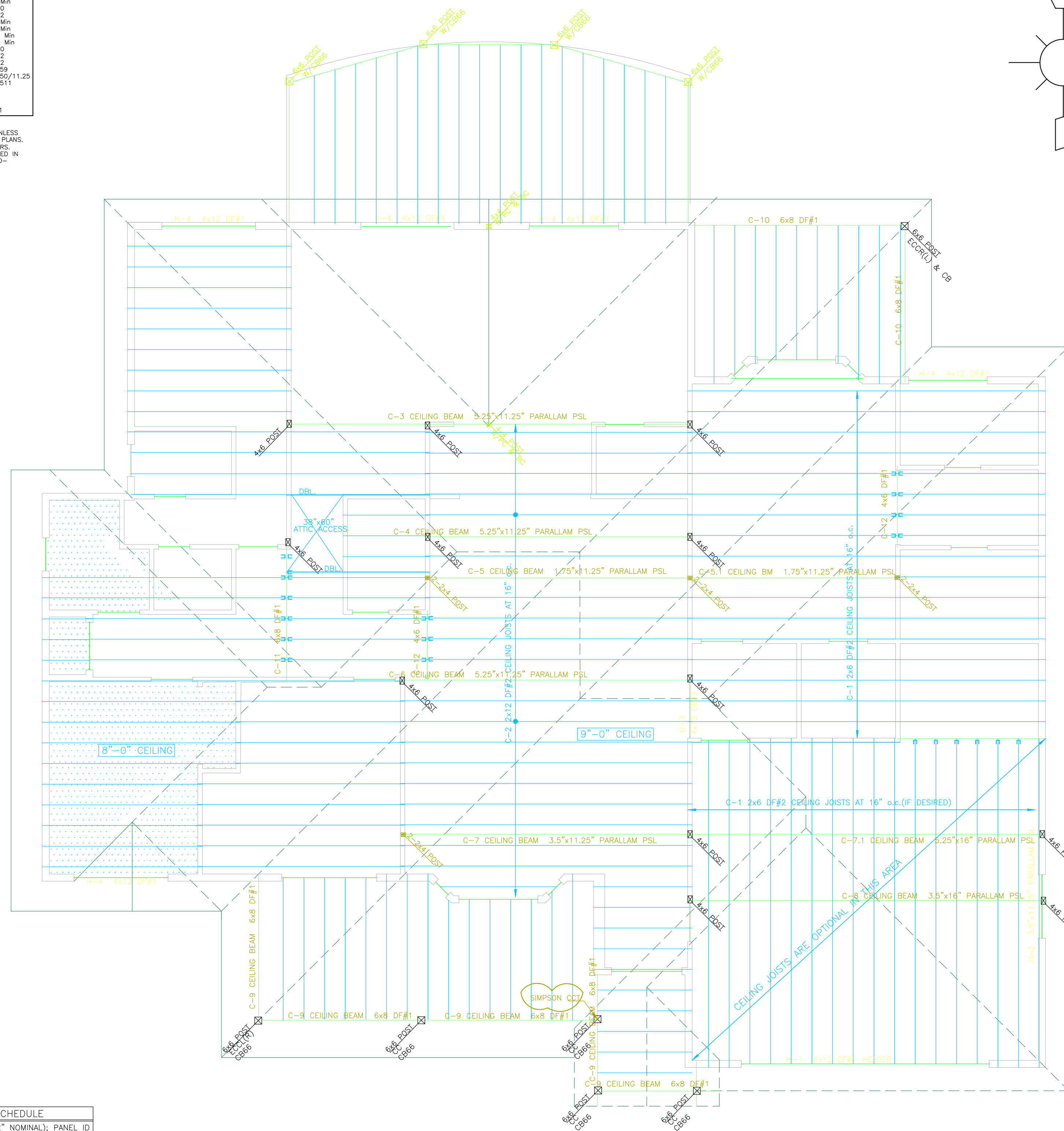
EXISTING STRUCTURES - SHEAR WALL SCHEDULE (See Notes)					
SHEAR WALL TYPE	C-D or OSB SHEATHING	EDGE NAILING	JOISTS or BLOCKS TO TOP PLATE	SOLE PLATE TO JOISTS or BLK'G (where noted)	SILL BOLTS TO CONCRETE
(FIELD-BUILT)	APA RATED	8d Common Nails	SIMPSON ANCHOR	SDS 1/4" x 4.5" wood screw (Notes 11.15, 6.17)	1/2" x 10" at (Notes 1.3, 6.16)
12	3/8"	6" o.c.	A35 at 24" o.c. (U.O.N. on DETAILS)	1 screw @ 16" o.c.	2'-8" o.c. 2x SILL PLATE
13	3/8"	4" o.c.	A35 at 16" o.c.	2 screws @ 16" o.c.	1'-4" o.c. 2x SILL PLATE
14	3/8"	3" o.c.	A35 at 16" o.c.	2 screws @ 16" o.c.	1'-4" o.c. 2x SILL PLATE
15	3/8"	2" o.c.	2-A35 at 16" o.c.	3 screws @ 16" o.c.	1'-0" o.c. 2x SILL PLATE

EXISTING STRUCTURES SHEAR LOAD

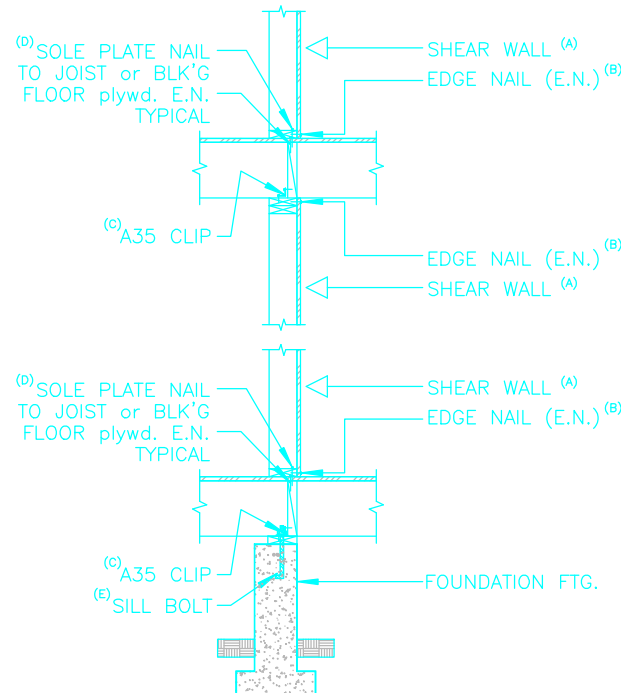
ALL FIELD NAILING SHALL BE 8d COMMON at 12" o.c.

HANGER SCHEDULE		
JOIST or BEAM	SPECIE	RECOMMENDED HANGER
2x6	DF-L	LUS26
2x8		LUS28
2x10		LUS210
2x12		LUS210
4x6		HU46 Min
4x8		HU48 Min
4x10		HU410
4x12		HU412
6x6		HU66 Min
6x8		HU68 Min
6x10		HU610 Min
6x12		HU612 Min
3.5"x9.5"		HUS9.5
3.5"x11.25"		HUS11.25
5.25"x9.5"		GLV5.9
5.25"x11.25"		GLV5.9
5.25"x11.25"		GLV5.11
5.25"x11.25"		GLV5.11
6.75"x12"		GL17
6.75"x12"		HGL17
10.75"x12"		HGL11

NOTES:  
 (1) USE RECOMMENDED HANGER UNLESS OTHERWISE NOTED (U.O.N.) ON PLANS.  
 (2) USE SIMPSON OR EQUAL HANGERS.  
 (3) OPTIONAL HANGERS MAY BE USED IN LIEU OF WHAT IS RECOMMENDED - CONSULT PROJECT ENGINEER.



- (CONTRACTOR SHALL READ & UNDERSTAND THESE NOTES BEFORE CONSTRUCTION)
- Where allowable shear exceeds 3500 pounds per foot (plf), foundation sill plates & all members receiving edge nailing from existing points shall be less than a single 3x nominal member; see Note 15 for all plate sizes.
  - All shear wall nails shall be of type Common, or "Galvanized Box." Galvanized nails shall be hot-dipped or tumbled.
  - Foundation sill plates shall be pressure treated Douglas-Fir Larch No. 2 or equal lumber; see schedule for all sizes.
  - All anchor bolts shall be minimum 5/8" dia. (7" embedment) & spaced not more than 6'-0" apart; see shear schedule for actual spacing. For each all bolt, minimum plate washers of 3" by 3" by 1/4" thick shall be used.
  - Where plates are applied on both faces of a wall AND spacing is less than 6" o.c. on either side, plate joints shall be offset to fall on different framing members OR framing shall be min. 3" nominal AND stagger all nails.
  - All shear wall sheathing shall extend to the bottom of the roof sheathing, u.o.n. by the details.
  - Provide stud or blocking at unsupported panel edges.
  - Extend shear sheathing over all openings for continuous shear support & uniform wall thickness.
  - Shear wall panels shall not be less than 2x4 in either direction, u.o.n. by the special details.
  - Framing for shear walls shall be min. 2x4 (nominal) studs, 16" o.c., 2" or greater, spaced at max. 16" o.c.
  - All posts receiving horizontal loads shall have shear edge nailing full ht.
  - For 1'-0" floor sheathing applications, use SDS 1/4" x 6" wood screws in lieu of 4" screws.
  - SDS 1/4" dia. x 6" wood screws required.
  - If gun nails are to be used, then adjust spacer such that the nail head does not penetrate the sheathing.
  - When ordering large quantities of nails, verify the correct label or with the MFR, that the nails have the same length and diameter values as the nails specified in note #2.
  - Simpson SDS wood screws (SDS 3282), follow Simpson guidelines necessary to achieve full OSB design values.
  - 2x F.I.B.F. all plates may be used in lieu of 3x provided maximum shear does not exceed 600 plf and anchor bolts are designed & spaced at SDS or less the allowable capacity.
  - 16d (3.5" length) Common Nails may be used in lieu of SDS wood screws:
    - Type 1 OR 12 shear wall: 16d Common @ 6" o.c. - 16d nails shall be of type Common w/ length = 3.5" & diameter = 0.162"
    - Type 2 OR 13 shear wall: 16d Common @ 4" o.c.
    - Type 3 OR 14 shear wall: 16d Common @ 3" o.c.
    - Type 4 OR 15 shear wall: 16d Common @ 2.5" o.c.
  - FOUNDATION SILL BOLTS
    - Class D
      - 5/8" diameter sill bolts min.
      - 6'-0" o.c. max. spacing
      - 7" min. embedment
      - 3"x3"x1/4" min. plate washers
      - 12" max./7/8" min. from end of plates
    - Note: The anchor bolt spacing per shear wall schedule is only required when shear wall is present. When shear walls do not occur, space anchor bolts at 6'-0" max. spacing (one story), or 4'-0" o.c. (two stories).



- COLLECTORS DATA:
- INDICATES A DRAG STRAP TO BE INSTALLED AT ROOF/FLOOR FRAMING-SEE DETAILS.
  - SHEATHING SHALL BE EDGE NAILED ALONG COLLECTORS, TYP.
  - DASHED LINE= COLLECTOR ONE ROW OF CS-16 STRAP, NAILED W/8d COMMON AT 4" o.c. THROUGH PLYWOOD INTO 3x4 SOLID BLK'G
  - DOUBLE DASHED LINE= COLLECTOR STRAP, NAILED W/8d COMMON AT 4" o.c. THROUGH PLYWOOD INTO 4x4 SOLID BLK'G

COLLECTOR SCHEDULE		
COLL	END LENGTH	FIELD NAILS SPACING
CS16	2'-0" w/ holes filled	@ 4" o.c.
CMST14	3'-0" w/ holes filled	@ 3.5" o.c.

- LUMBER GRADE NOTES
- WOOD FRAMING LUMBER SHALL HAVE THE FOLLOWING GRADES UNLESS NOTED OTHERWISE ON PLANS:
- |                      |                      |
|----------------------|----------------------|
| SILL PLATE           | DOUGLAS FIR-LARCH #2 |
| STUDS                | DOUGLAS FIR-LARCH #2 |
| RAFTERS              | DOUGLAS FIR-LARCH #2 |
| JOISTS               | DOUGLAS FIR-LARCH #2 |
| PLATES               | DOUGLAS FIR-LARCH #2 |
| HEADERS              | DOUGLAS FIR-LARCH #2 |
| POSTS (4x & LESS)    | DOUGLAS FIR-LARCH #2 |
| POSTS (6x & GREATER) | DOUGLAS FIR-LARCH #1 |
| BEAMS (4x & LESS)    | DOUGLAS FIR-LARCH #2 |
| BEAMS (6x & GREATER) | DOUGLAS FIR-LARCH #1 |
| GLU-LAM BEAMS        | 24F-V4 D/DF          |
| PARALLAM             | PSL 2.0E             |
| MICROLLAM            | LVL 2.0E             |

ROOF AND FLOOR SHEATHING SCHEDULE		
COLL	END LENGTH	FIELD NAILS SPACING
CS16	2'-0" w/ holes filled	@ 4" o.c.
CMST14	3'-0" w/ holes filled	@ 3.5" o.c.

ROOF SHEATHING SHALL BE APA RATED 15/32" (1/2" NOMINAL); PANEL ID INDEX 32/16; EXPOSURE 1; UNBLOCKED U.O.N.; EDGE NAIL WITH 8d COMMON NAILS AT 6" o.c. AND 12" IN THE FIELD; USE PLYWOOD CLIPS AT UNSUPPORTED EDGES.

FLOOR SHEATHING SHALL BE APA RATED 23/32" (3/4" NOMINAL); T&G; PANEL ID INDEX 48/24; EXPOSURE 1; UNBLOCKED U.O.N.; EDGE NAIL WITH 8d COMMON NAILS AT 6" o.c. AND 10" IN THE FIELD.

NOTE: ORIENTED STRAND BOARD (OSB) STRUCTURAL PANEL SHEATHING MAY BE USED IN LIEU OF CDX PLYWOOD. OSB PANELS MUST MEET UNITED STATES DEPARTMENT OF COMMERCE VOLUNTARY PERFORMANCE STANDARD PS2-92 "PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL USE PANELS" AND/OR CANADIAN PERFORMANCE STANDARD CSA O325 "CONSTRUCTION SHEATHING". OSB CERTIFIED MARKS (APA, TECO, OR PSI) ARE EXAMPLES OF IGBD APPROVED & PS 292 QUALIFIED PANELS.

ALL METAL ANCHORS, FASTENERS, CONNECTORS ETC THAT WILL BE IN CONTACT WITH PRESSURE TREATED LUMBER, MUST BE HOT-DIPPED GALVANIZED OR OTHER APPROVED CORROSION RESISTENT MATERIAL. ANCHOR BOLTS, HOLD DOWN ANCHOR BOLTS AND ALL OTHER INSERTS, SHALL BE POSITIONED IN PLACE, PRIOR TO CALLING FOR FOUNDATION INSPECTION.

# CEILING FRAMING PLAN

SCALE: 1/4"=1'-0"

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REVISION	
△	PER PLAN CHECK
△	ENGINEERING

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PROJECT #: 11020 DATE: May 2011  
 DRAWN BY: jp SCALE: 1/4"=1'-0"  
 PROJECT MANAGER: jp  
 ENGINEERED BY: jp  
 REVIEWED BY: John

**CEILING FRAMING PLAN**

AutoCAD 14 Arch "D" Sheet 14"x11"

# S2

(BOND PRINTS RECOMMENDED WHEN REPRODUCING)  
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IF THE CONTRACTOR IS REQUIRED TO REVISION OR AMENDMENTS TO THE EXISTING STRUCTURAL SYSTEM, IS NOT COVERED BY THIS DESIGN CONTRACT, SINCE THOSE MEMBERS ARE NOT EXPOSED AT THIS TIME, THEIR STRUCTURAL SOUNDNESS IS NOT KNOWN. SUCH AN INVESTIGATION MAY TAKE PLACE AFTER THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES.