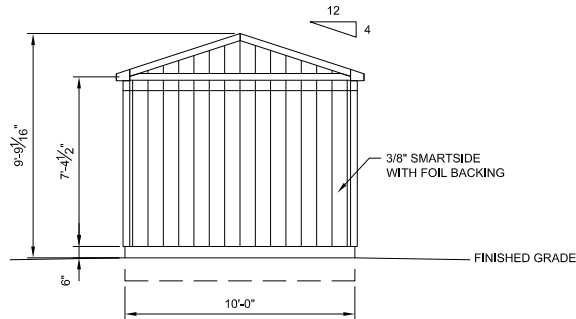
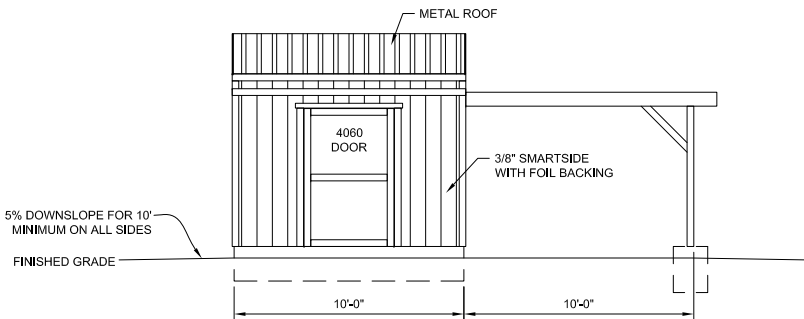


OBSERVATORY  
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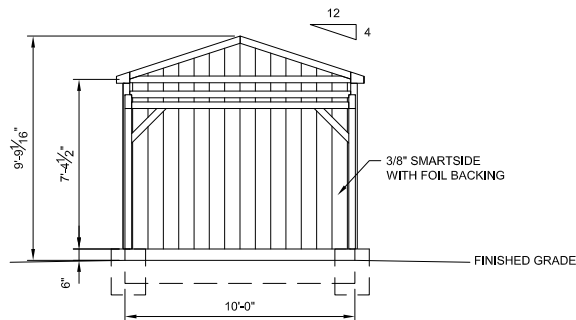
DRAWING INDEX  
A1 - PROJECT NOTES, ELEVATIONS  
A2 - PLANS, SHEAR WALL SCHEDULE  
A3 - SECTIONS, DETAILS



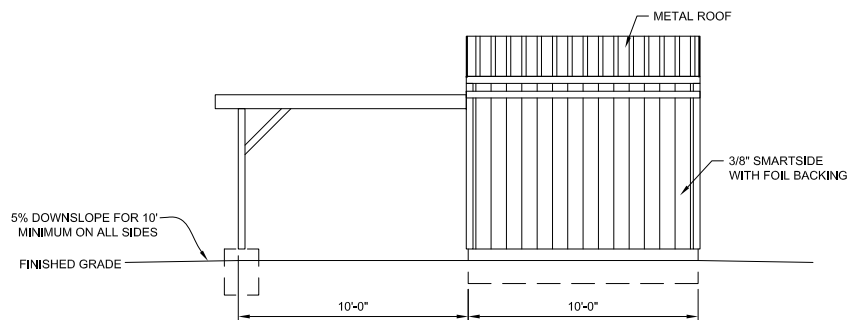
WALL A ELEVATION



WALL B ELEVATION



WALL C ELEVATION



WALL D ELEVATION

PROJECT NOTES

- DESIGN REQUIREMENTS
- GOVERNING CODES: 2012 IBC  
OCCUPANCY REQUIREMENTS: GROUP U  
CONSTRUCTION TYPE: V-B
  - DESIGN SCHEDULE
    - BUILDING SIZE  
WIDTH: 10'-0"  
LENGTH: 8'-0"  
SIDE WALL HEIGHT: 7'-4 1/2"  
TOTAL HEIGHT: 9'-9 1/8"
    - BUILDING LOADS  
ROOF LIVE LOAD: 30 PSF  
ROOF DEAD LOAD: 10 PSF
    - DESIGN WIND  
3 SECOND GUST, V<sub>3</sub>: 115 MPH  
WIND EXPOSURE: C
    - SEISMIC DESIGN CATEGORY: C
    - SITE CLASS: D
    - ROOF PITCH: 4/12
  - ROOFING SCHEDULE
    - ROOF SHEATHING SHALL BE APA RATED 7/16" THICK OSB WITH FOIL BACKING. STAGGER LAYOUT PER APA CONDITION 1.
    - PI #24/16 MIN UNBLOCKED.
    - SHEATHING NAILING SHALL BE PER NAILING SCHEDULE.
    - METAL ROOFING.
      - 15 LB. ROOFING FELT.
      - TYPE 'D' METAL DRIP EDGE FLASHING REQUIRED ALL SIDES.
    - TRUSSES SHALL BE SPACED @ 24" OC.
    - SEE SEPARATE TRUSS SHEETS FOR TRUSS FRAMING AND MATERIALS.
    - TRUSS CONNECTION PLATES 'EAGLE METAL PLATES' ICC #ESR 1082.
    - THE TRUSS PLATE INSTITUTE (TPI) (NER QA 430) IS THE INSPECTION AGENCY RESPONSIBLE FOR IN-PLANT INSPECTIONS.
    - TRUSS MANUFACTURER: TUFF SHED, INC.
  - WOOD FRAMING
    - ALL WALL FRAMING MEMBERS SHALL BE STUD GRADE OR BETTER WITH THE FOLLOWING DESIGN VALUES: F<sub>b</sub> = 675 PSI, F<sub>t</sub> = 400 PSI, F<sub>v</sub> = 150 PSI, F<sub>c</sub> = 800 PSI PARALLEL TO GRAIN, E = 1,200,000 PSI.
    - STUDS SHALL BE SPACED @ 16" OC.
    - FASTEN EXTERIOR WALL SHEATHING TO FRAMING PER NAILING SCHEDULE.
    - PROVIDE SOLID BLOCKING AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALL PANELS PER 2308.9.3.
    - SHEAR WALL MATERIAL SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
    - SHEAR WALL NAILING SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
  - SOIL
    - MIN. REQUIRED SOIL TYPE SHALL BE CLAY, SANDY CLAY, SILTY CLAY, OR CLAYEY SILT (CL, ML, MH & CH). PRESCRIPTIVE ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN IS 1500 PSF AT 12" DEEP. VALUES ARE PER TABLE 1804.2.
    - IN THE EVENT OF THE DISCOVERY OF EXPANSIVE SOILS, FOUNDATION WILL EXTEND MIN. 2'-0" BELOW GRADE.
    - ALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SOIL.
    - IN THE EVENT EXCAVATIONS REVEAL UNFAVORABLE CONDITIONS, THE SERVICES OF A SOILS ENGINEER MAY BE REQUIRED.
  - PERMIT
    - PERMIT APPLICATIONS, WHERE NO PERMIT IS ISSUED, SHALL EXPIRE PER LIMITATIONS SET BY LOCAL CODES, SECTION 105.5.
    - JOB CARD REQUIRED TO BE AVAILABLE FOR SIGNATURE AT JOB SITE

- GENERAL NOTES
- GENERAL:
    - ERECTION PROCEDURES SHALL CONFORM TO OSHA STANDARDS. BUILDER SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES, TREES, UTILITIES, ETC.
    - BUILDER IS RESPONSIBLE FOR SAFETY OF BUILDING DURING CONSTRUCTION. PROVIDE ALL SHORING OR BRACING AS REQUIRED AND PER GOVERNING REGULATIONS.
    - ALL WOOD CONSTRUCTION CONNECTORS REFERENCED IN THIS DRAWING SHALL BE SIMPSON 'STRONG-TIE' OR EQUIVALENT INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
    - GREEN VINYL SINKER NAILS DO NOT MEET THE NAILING REQUIREMENTS OF COMMON NAILS.
  - PLYWOOD DIAPHRAGMS  
15/32" CDX PLYWOOD OR 7/16" OSB
  - MATERIAL EVALUATION REPORT IDENTIFICATION
    - TRUSS CONNECTION PLATES BY EAGLE METAL PLATES PER ICC-ES REPORT #ESR-1082.
    - DURATEMP SIDING BY ROSEBURG FOREST PRODUCTS IS APPROVED FOR USE WITHOUT UNDERLAYMENT PER ICC-ES REPORT #ESR-2760.
    - HARDIPANEL SIDING BY JAMES HARDIE BLDG PRODUCTS PER NES REPORT #NER-405
    - SMARTSIDE SIDING BY LP CORPORATION PER ICC-ES REPORT #ESR-1301.
    - LAMINATED VENEER LUMBER (LVL) PER ICC-ES REPORT #ESR-1387.
    - CLASS A SHINGLES BY OWENS CORNING ROOFING PER ICC-ES REPORT #ESR-1372.
    - HDU PRE-DEFLECTED HOLD-DOWNS BY SIMPSON PER ICC-ES REPORT #ESR-2330.
    - SSTB ANCHOR BOLTS BY SIMPSON PER ICC-ES REPORT #ESR-2611.

PRELIMINARY

STRUCTURAL DRAWINGS BY:

TUFF SHED

IN HOUSE DRAFTING

DEPARTMENT

1777 S. HARRISON STREET

DENVER, COLORADO 80210

(303) 753-TUFF

PO No. Presale

Inv No. Presale

Customer:

ASTRONOMY GROUP

Description:

OBSERVATORY

10' X 10' = 100 SQ FT

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Checked By:

Date:

Revised:

Revised:

Title:

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PROJECT NOTES

ELEVATIONS

-

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

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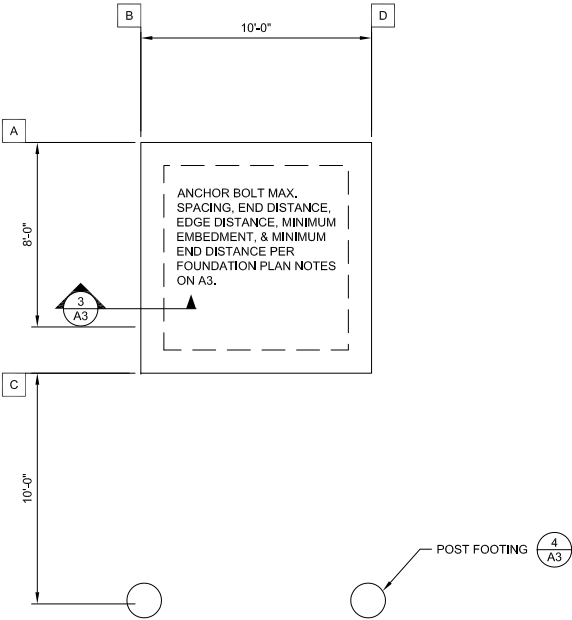
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Sheet 1

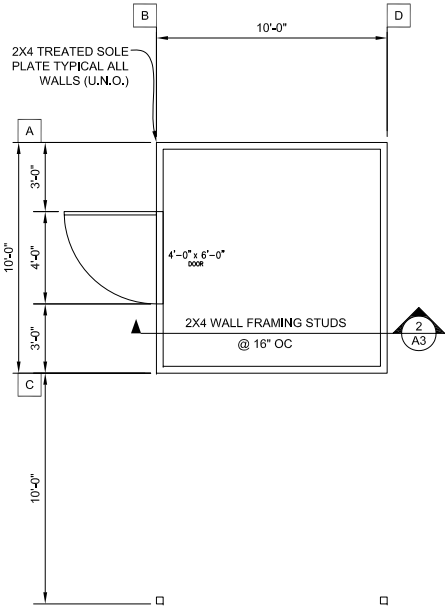
of 3

NAILING SCHEDULE			SHEAR WALL SCHEDULE		SHEAR WALL SCHEDULE		SHEAR WALL SCHEDULE			
CHORD SPLICE NAILING: 8 - 16d NAILS EACH SIDE OF SPLICE. TRUSS BLOCKING: (4) - 16d (TOENAILED)			2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 10'-0" LONG TOTAL. 8' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDDOWNS REQUIRED.		X230		2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 10'-0" LONG TOTAL. (4'+4') = 8' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDDOWNS REQUIRED.		X230	
FRAMING NAILING: STUD TO TOP PLATE, 2-16d END NAIL STUD TO SILL PLATE, 2-16d END NAIL OR 4-8d TOENAIL DBL. HEADER 16d @ 16" OC ALONG EACH EDGE HEADER TO KING STUD 4-8d TOENAIL OR 4-16d END NAIL DOUBLE TOP PLATES, 16d @ 16" FACENAIL										
UNLESS SPECIFIED HEREIN, ALL NAILING SHALL BE PER 2012 IBC TABLE 2304.9.1.										
									150	
PROVIDE 2X4 SOLID BLOCKING ON ALL UNSUPPORTED EDGES OF PLYWOOD ON SHEAR WALLS.			2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 10'-0" LONG TOTAL. 8' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDDOWNS REQUIRED.		X230		2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 10'-0" LONG TOTAL. 12' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDDOWNS REQUIRED.		X230	
UNBLOCKED ROOF DIAPHRAGM ROOF SHEATHING NAILING: BORDER: 8d COMMON @ 6" OC EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC										
									150	

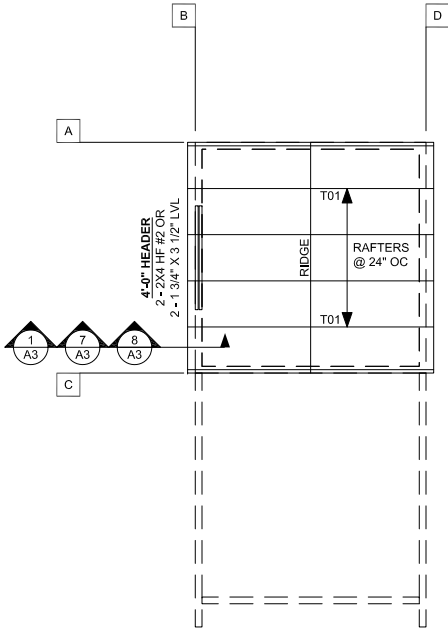
WHEN PERFORATED SHEAR WALL DESIGN IS DESIGNATED, AREAS ABOVE AND BELOW OPENINGS ARE USED IN SHEAR CALCULATIONS.



FOUNDATION PLAN



FLOOR PLAN



ROOF FRAMING PLAN

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DENVER, COLORADO 80210  
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PO No. Presale  
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STORE 040

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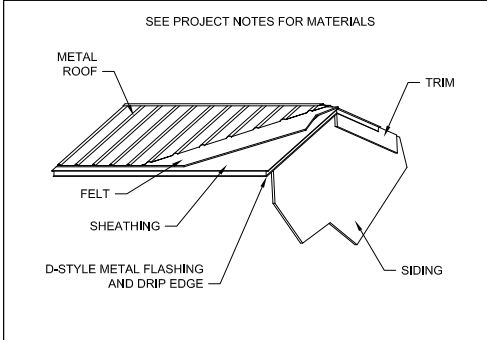
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PLANS  
SHEAR WALL SCHED  
NAILING SCHEDULE

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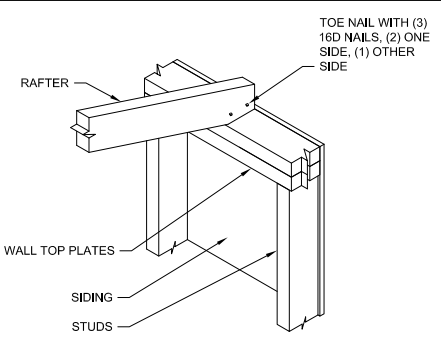
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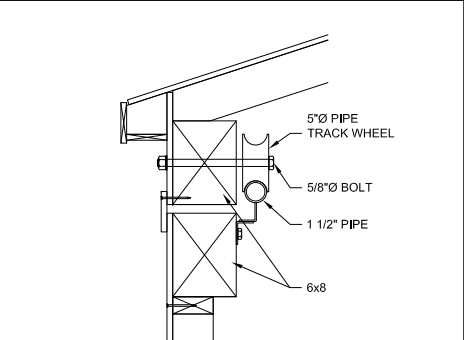
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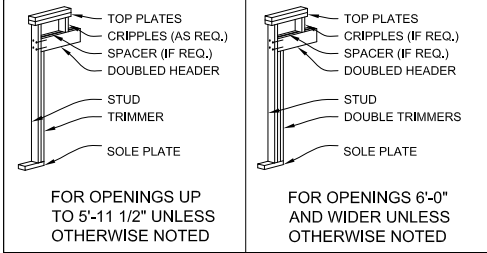
6 METAL ROOFING DETAIL



7 SHED RAFTER TOE NAILING DETAIL

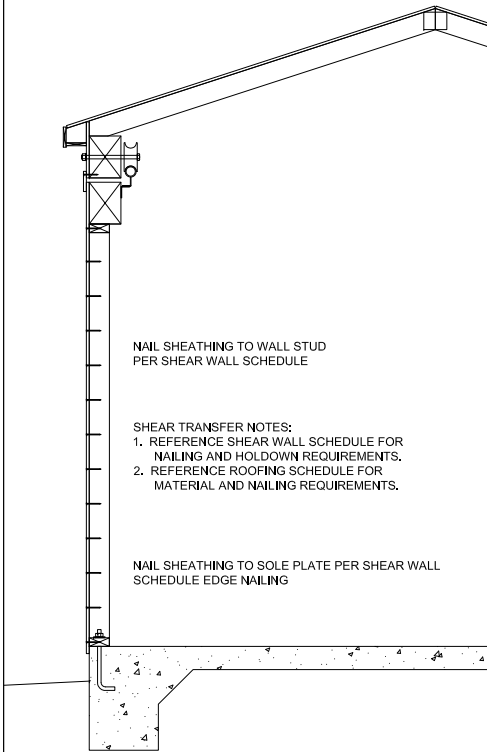


8 ROOF TRACK DETAIL

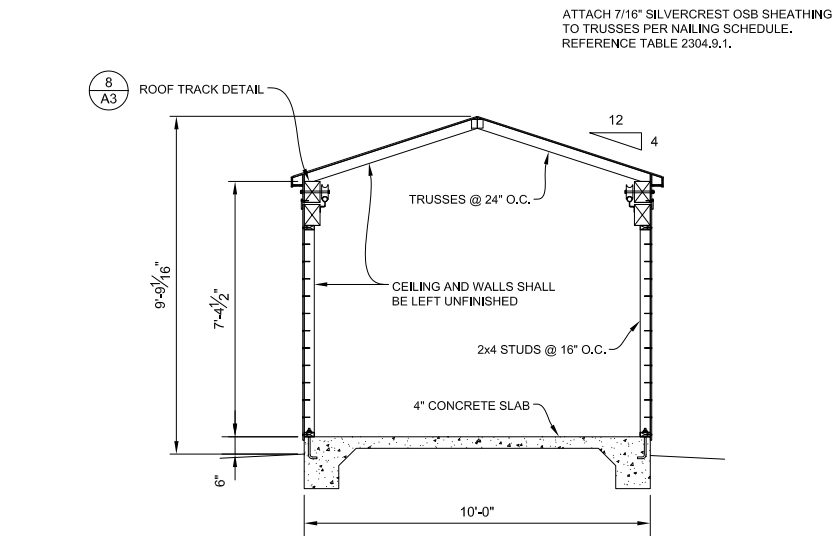


5 HEADER DETAIL  
NOT TO SCALE

NAILING:  
HEADER TO STUD - 4-8d TOENAIL OR 4-16d END NAIL  
DOUBLED HEADER - 16d @ 16\"/>

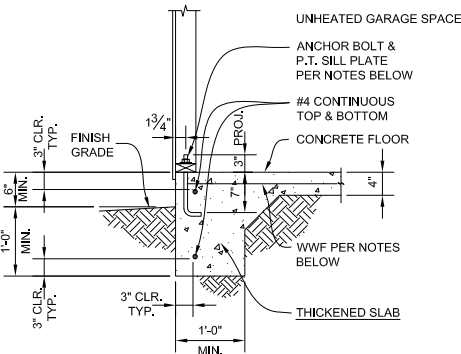


1 SHEAR TRANSFER DETAIL  
3/4\"/>



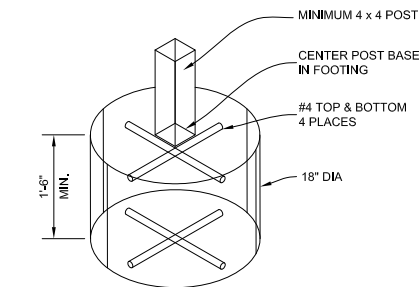
2 BUILDING SECTION  
3/8\"/>

ATTACH EACH END OF EACH TRUSS TO TOP PLATES WITH H2.5 OR EQUIV CLIPS.  
WALL FRAMING TO BE 2X4 HF STUD GRADE @ 16\"/>



- CONTINUOUS FOOTING NOTES
1. TOP OF SLAB TO BE 8\"/>
  2. ALL FOOTING FORMS SHALL BE INSPECTED FOR SIZE AND REINFORCING BEFORE POURING CONCRETE.
  3. FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL, COMPETENT SOIL, OR PROPERLY COMPACTED STRUCTURAL FILL. ALLOWABLE SOIL BEARING PRESSURE IS 1500 PSF AT 12\"/>
  4. CONCRETE; MINIMUM 28 DAY COMPRESSIVE STRENGTH,  $f_c = 2500$  PSI.
  5. REINFORCING STEEL: A615, GRADE 40 OR GRADE 60. ALL REINFORCING STEEL SHOWN TO BE CONTINUOUS MAY BE LAPPED A MINIMUM OF 38 BAR DIAMETERS OR 24\"/>
  6. SEISMIC DESIGN CATEGORY: C
- A. ATTACH PRESSURE TREATED SOLE PLATE TO THE FOOTING USING 1/2\"/>
- B. ANCHOR BOLTS SHALL BE EMBEDDED AT LEAST 7\"/>
- C. THERE SHALL BE A MINIMUM OF 2 BOLTS PER SOLE PLATE PIECE WITH 1 BOLT LOCATED NOT MORE THAN 12\"/>

3 CF-1 FOUNDATION DETAIL  
3/4\"/>



4 POST FOOTING DETAIL  
NOT TO SCALE

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SECTIONS

DETAILS

Scale: NONE

Sheet:

A3

Sheet 3 of 3