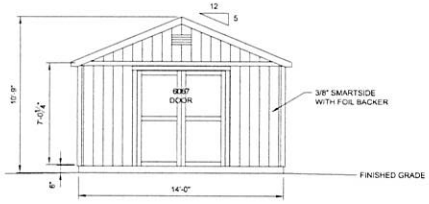
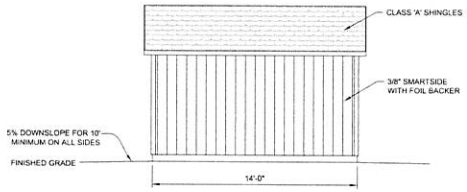
ACCESSORY BUILDING
14' X 14' = 196 SQ FT

DRAWING INDEX

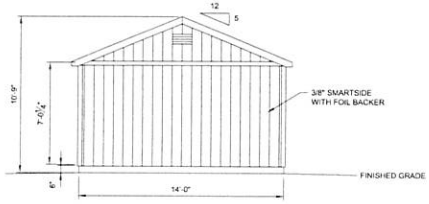
A1 - PROJECT NOTES, ELEVATIONS
A2 - PLANS, SHEAR WALL SCHEDULE
A3 - SECTIONS, DETAILS



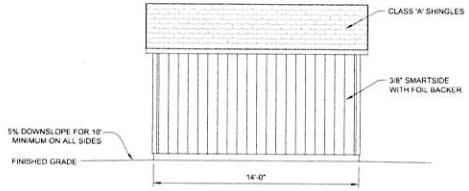
WALL A ELEVATION



WALL B ELEVATION



WALL C ELEVATION



WALL D ELEVATION

PROJECT NOTES

DESIGN REQUIREMENTS
1. GOVERNING CODES: 2012 IRC
   OCCUPANCY REQUIREMENTS: GROUP U
   CONSTRUCTION TYPE: V-B

2. DESIGN SCHEDULE
   A. BUILDING SIZE
      WIDTH: 14'-0"
      LENGTH: 14'-0"
      SIDE WALL HEIGHT: 7'-0 1/4"
      TOTAL HEIGHT: 10'-9"
   B. BUILDING LOADS
      ROOF LIVE LOAD: 20 PSF
      GROUND SNOW LOAD: 53 PSF
      ROOF DEAD LOAD: 10 PSF
   C. DESIGN WIND
      3 SECOND GUST, V_{ult}: 110 MPH
      WIND EXPOSURE: B
   D. SEISMIC DESIGN CATEGORY: D1
   E. SITE CLASS: D
   F. ROOF PITCH: 5/12

3. ROOFING SCHEDULE
   A. ROOF SHEATHING SHALL BE APA RATED 7/16" THICK OSB WITH FOIL BACKING. STAGGER LAYOUT PER APA CONDITION 1.
   B. PI #24/16 MIN UNBLOCKED.
   C. SHEATHING NAILING SHALL BE PER NAILING SCHEDULE.
   D. LIFETIME DIMENSIONAL SHINGLES (CLASS A) (U.N.O.).
   E. 15 LB. ROOFING FELT.
   F. TYPE 'D' METAL DRIP EDGE FLASHING REQUIRED ALL SIDES.
   G. TRUSSES SHALL BE SPACED @ 24" OC.
   H. SEE SEPARATE TRUSS SHEETS FOR TRUSS FRAMING AND MATERIALS.
   I. TRUSS CONNECTION PLATES 'EAGLE METAL PLATES'.
   J. THE TRUSS PLATE INSTITUTE (TPI) (NER QA 430) IS THE INSPECTION AGENCY RESPONSIBLE FOR IN-PLANT INSPECTIONS.
   K. TRUSS MANUFACTURER: TUFF SHED, INC

4. WOOD FRAMING
   A. ALL WALL FRAMING MEMBERS SHALL BE STUD GRADE OR BETTER WITH THE FOLLOWING DESIGN VALUES: Fb = 675 PSI, Ft = 400 PSI, Fv = 75 PSI, Fc = 800 PSI PARALLEL TO GRAIN, E = 1,200,000 PSI.
   B. STUDS SHALL BE SPACED @ 16" OC.
   C. FASTEN EXTERIOR WALL SHEATHING TO FRAMING PER NAILING SCHEDULE.
   D. PROVIDE SOLID BLOCKING AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALL PANELS PER R602.10.1.
   E. SHEAR WALL MATERIAL SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.
   F. SHEAR WALL NAILING SHALL BE AS SPECIFIED IN SHEAR WALL SCHEDULE.

5. SOIL
   A. 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 R401.4.1.
   B. IN THE EVENT OF THE DISCOVERY OF EXPANSIVE SOILS, FOUNDATION WILL EXTEND MIN. 2'-0" BELOW GRADE.
   C. ALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SOIL.
   D. IN THE EVENT EXCAVATIONS REVEAL UNFAVORABLE CONDITIONS, THE SERVICES OF A SOILS ENGINEER MAY BE REQUIRED.

6. PERMIT
   A. PERMIT APPLICATIONS, WHERE NO PERMIT IS ISSUED, SHALL EXPIRE PER LIMITATIONS SET BY LOCAL CODES. SECTION R105.
   B. JOB CARD REQUIRED TO BE AVAILABLE FOR SIGNATURE AT JOB SITE

GENERAL NOTES
1. GENERAL:
   A. ERECTION PROCEDURES SHALL CONFORM TO OSHA STANDARDS. BUILDER SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES, TREES, UTILITIES, ETC.
   B. BUILDER IS RESPONSIBLE FOR SAFETY OF BUILDING DURING CONSTRUCTION. PROVIDE ALL SHORING OR BRACING AS REQUIRED AND PER GOVERNING REGULATIONS.
   C. ALL WOOD CONSTRUCTION CONNECTORS REFERENCED IN THIS DRAWING SHALL BE SIMPSON 'STRONG-TIE' OR EQUIVALENT INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
   D. GREEN VINYL SINKER NAILS DO NOT MEET THE NAILING REQUIREMENTS OF COMMON NAILS.

2. PLYWOOD DIAPHRAGMS
   15/32" CDX PLYWOOD OR 7/16" OSB.

3. MATERIAL EVALUATION REPORT IDENTIFICATION:
   A. TRUSS CONNECTION PLATES BY EAGLE METAL PLATES PER ICC-ES REPORT #ESR-1082
   B. DURATEMP SIDING BY ROSEBURG FOREST PRODUCTS IS APPROVED FOR USE WITHOUT UNDERLAYMENT PER ICC-ES REPORT #ESR-2760.
   C. HARDIPANEL SIDING BY JAMES HARDIE BLDG PRODUCTS PER NES REPORT #NER-405
   D. SMARTSIDE SIDING BY LP CORPORATION PER ICC-ES REPORT #ESR-1301.
   E. LAMINATED VENEER LUMBER (LVL) PER ICC-ES REPORT #ESR-1387.
   F. CLASS A SHINGLES BY OWENS CORNING ROOFING PER ICC-ES REPORT #ESR-1372.
   G. HDU PRE-DEFLECTED HOLDOWNS BY SIMPSON PER ICC-ES REPORT #ESR-2330
   H. 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.: Inv No. 878966
Customer: BRAD MORGAN
ONSITE DEVELOPMENT
Description:
ACCESSORY BUILDING
14' X 14' = 196 SQ FT
Site Address:
5100 EAST 2500 NORTH
EDEN, UT 84310

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Storage Buildings & Garages
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(801) 359-8453
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07/24/2013

Drawn By: PK
Date: 3/2/15
Checked By:
Date:
Revised:
Revised:
Title:
-
PROJECT NOTES
ELEVATIONS
-
Scale: 1/4" = 1'-0"
Sheet:
A1
Sheet 1 of 3

NAILING SCHEDULE

CHORD SPLICE NAILING: 8 - 16d NAILS EACH SIDE OF SPLICE.
TRUSS BLOCKING: (4) - 16d (TOENAILED)

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 IRC TABLE R602.3(1).

UPLIFT TRANSFER: PROVIDE SIMPSON H2.5A AT EACH END OF TRUSSES.

PROVIDE 2X4 SOLID BLOCKING ON ALL UNSUPPORTED EDGES OF PLYWOOD ON SHEAR WALLS.

UNBLOCKED ROOF DIAPHRAGM
ROOF SHEATHING NAILING:
BORDER: 8d COMMON @ 6" OC
EDGE: 8d COMMON @ 6" OC
FIELD: 8d COMMON @ 12" OC

CALC. SHEAR LOAD (lb/ft)	ALLOW SHEAR LOAD (lb/ft)
X	197

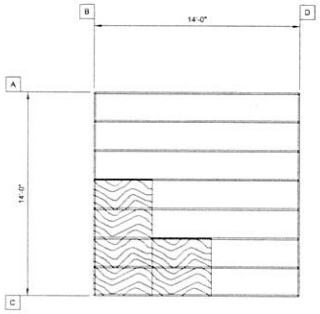
SHEAR WALL SCHEDULE

	CALC. SHEAR LOAD (lb/ft)	ALLOW SHEAR LOAD (lb/ft)
A: 2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 14'-0" LONG TOTAL. (4'+4') = 8' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	X	230
C: 2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 14'-0" LONG TOTAL. 14' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	X	230

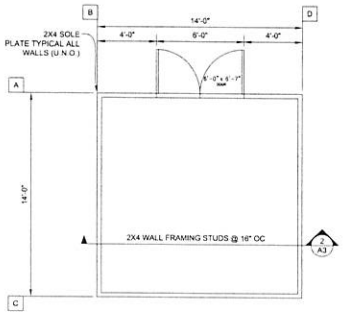
SHEAR WALL SCHEDULE

	CALC. SHEAR LOAD (lb/ft)	ALLOW SHEAR LOAD (lb/ft)
B: 2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 14'-0" LONG TOTAL. 14' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	X	230
TOENAIL BLOCKING TO TOP PLATE: 3-8d/ BLOCK		150
D: 2X4 FRAMING. SHEATHE EXTERIOR WITH 3/8" SMARTSIDE WITH FOIL BACKING. 14'-0" LONG TOTAL. 14' USED FOR SHEAR. NAILING: EDGE: 8d COMMON @ 6" OC FIELD: 8d COMMON @ 12" OC NO HOLDOWNS REQUIRED.	X	230
TOENAIL BLOCKING TO TOP PLATE: 3-8d/ BLOCK		150

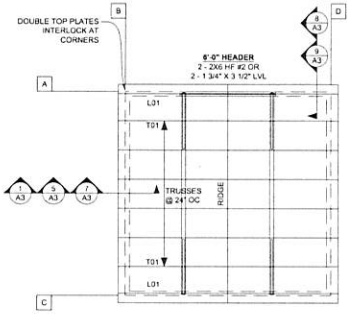
WHEN PERFORATED SHEAR WALL DESIGN IS DESIGNATED, AREAS ABOVE AND BELOW OPENINGS ARE USED IN SHEAR CALCULATIONS. REFERENCE 2012 IRC TABLE 2305.3.8.2



FOUNDATION PLAN



FLOOR PLAN



ROOF FRAMING PLAN

PRELIMINARY

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STORE: 936
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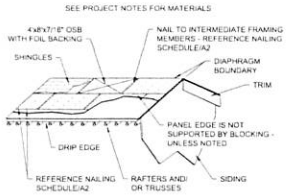
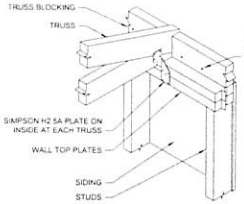
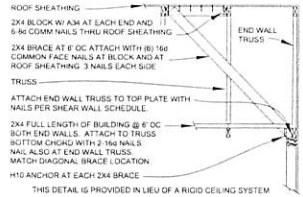
Drawn By: PK
Date: 3/2/15
Checked By:
Date:
Revised:
Revised:
Title:
PLANS
SHEAR WALL SCHED
NAILING SCHEDULE
Scale: 1/4" = 1'-0"
Sheet:
A2
Sheet 2 of 3



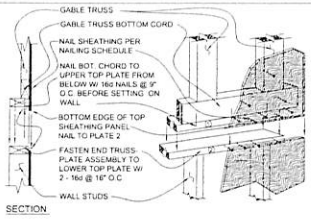
6 ROOFING SHEATHING NAILING DTL



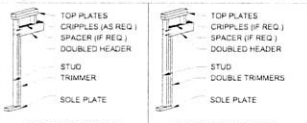
7 H2.5A RANCH TRUSS ATTACHMENT DETAIL WITH BOTTOM CHORD



8 END WALL BRACE and TRUSS BOTTOM CHORD BRACE
NOT TO SCALE

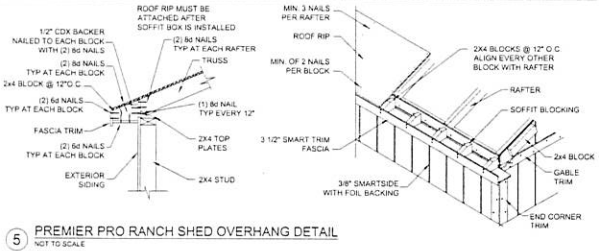


9 ENDWALL ASSEMBLY DETAIL

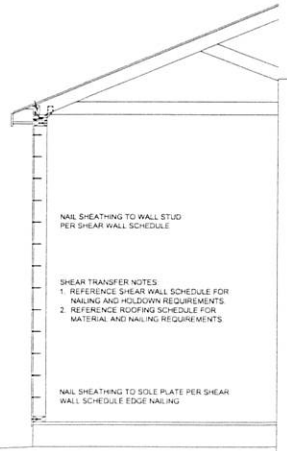


NAILING:
HEADER TO STUD - 4-8d TDENAIL OR 4-16d END NAIL
DOUBLED HEADER - 16d @ 16" STAGGERED FACE NAIL
REFERENCE TABLE 2304.9.1

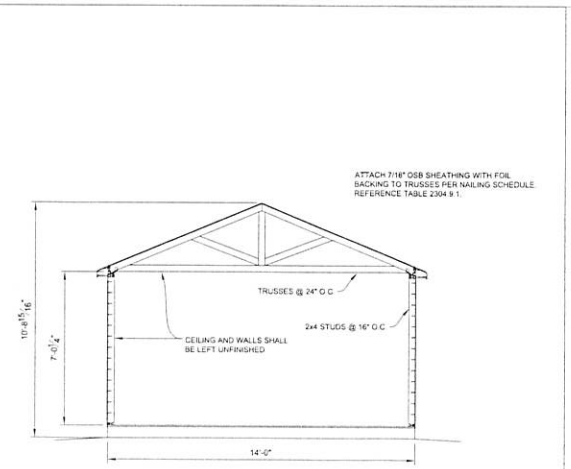
4 HEADER DETAIL
NOT TO SCALE



5 PREMIER PRO RANCH SHED OVERHANG DETAIL
NOT TO SCALE

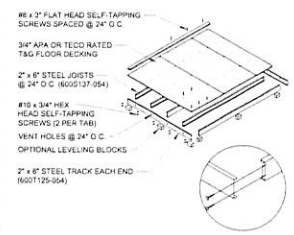


1 SHEAR TRANSFER DETAIL
3/4" = 1' - 0"



2 BUILDING SECTION
3/8" = 1' - 0"

ATTACH EACH END OF EACH TRUSS TO TOP PLATES.
WALL FRAMING TO BE 2X4 HF STUD GRADE @ 16" OC.



1. STEEL SHED FOUNDATION:
   2" x 6"-16 GAUGE STEEL TRACKS G140 ZINC COATED
   2" x 6"-16 GAUGE STEEL JOISTS G140 ZINC COATED @ 24" O.C.
   (SUPPLIER: ALLIED STUDCO (JOIST: 600S137-054 / TRACK: 600T125-054).
2. 3/4" APA OR TECO RATED TONGUE AND GROOVE FLOOR DECKING. 24" MAX PANEL SPAN. STAGGER PANEL LAYOUT.
3. FASTEN FLOOR DECKING TO JOIST & TRACKS USING #8 x 1-5/8" MINIMUM LONG SELF-DRILLING SCREWS @ 12" O.C. NO BLOCKING REQUIRED. ALL EDGES SHALL LIE ON FLOOR JOISTS. STAGGER PANEL LAYOUT PER APA CONDITION 1.
4. FASTEN SOLE PLATE THROUGH FLOOR DECKING INTO JOISTS OR TRACKS WITH #8 x 3" GALVANIZED SELF-DRILLING SCREWS @ 24" O.C.
5. ALLOWABLE FLOOR LIVE LOAD: 75 PSF FOR STEEL JOISTS CONTINUOUSLY SUPPORTED. 50 PSF FOR JOISTS ON BLOCKS AS SHOWN.
6. USE OPTIONAL CONCRETE BLOCKS AS REQUIRED TO LEVEL BUILDING. SUGGESTED SIZES: 2" x 8" x 16", 4" x 8" x 16", OR 8" x 8" x 16".
   BLOCKS UNDER JOISTS SPACED @ 8'-0" O.C. MAXIMUM.
   BLOCKS UNDER TRACK SPACED @ 4'-0" O.C. MAXIMUM.

3 STEEL BASE ASSEMBLY
NOT TO SCALE

PRELIMINARY

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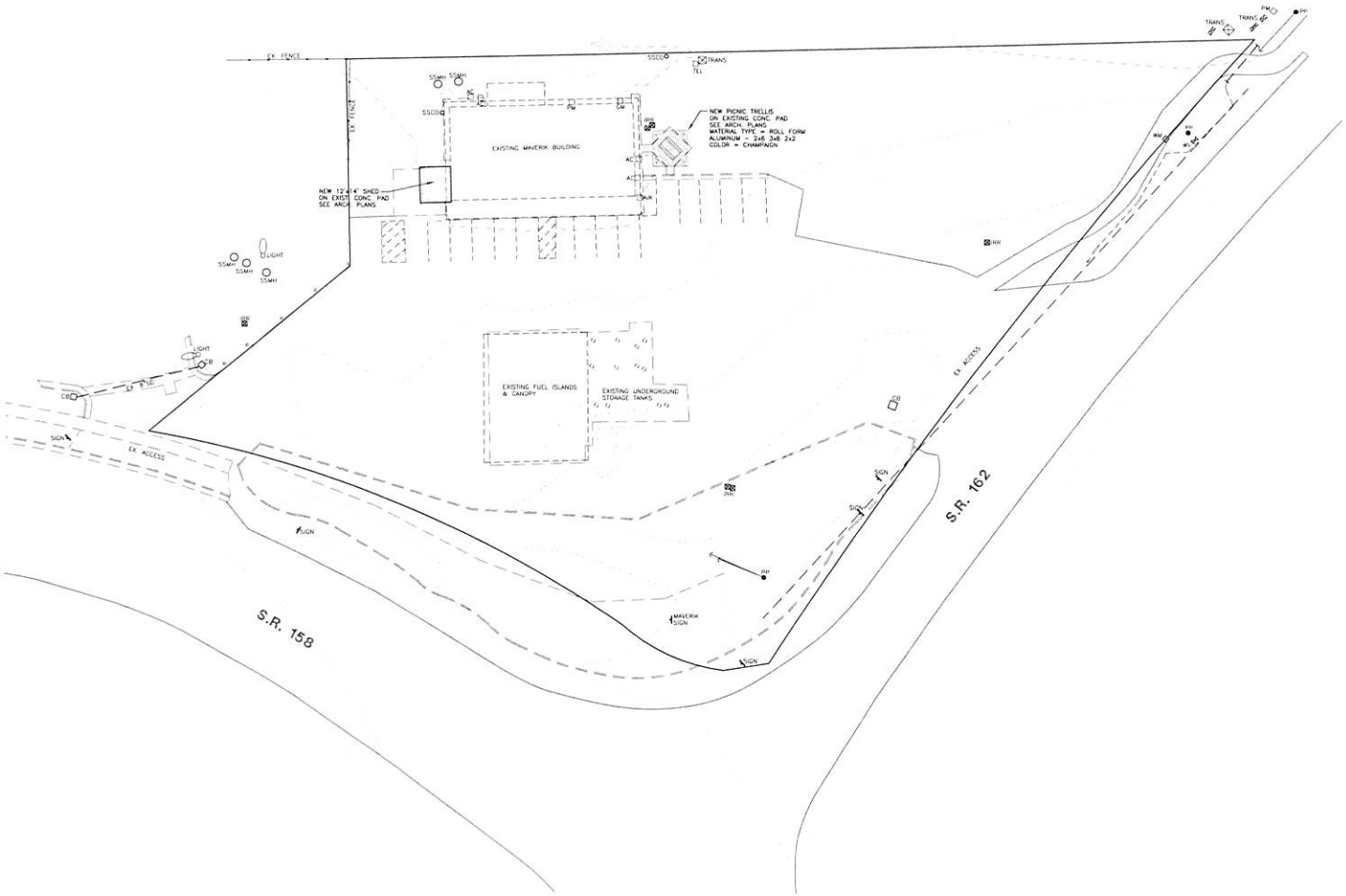
Drawn By: PK
Date: 3/2/15
Checked By:
Date:
Revised:
Revised:
Title:
SECTIONS
DETAILS
Scale: NONE
Sheet:
A3
Sheet 3 of 3



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STATE OF UTAH

CONSULTANTS

Reeve & Associates, Inc.

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OGDEN, UTAH 84403
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FAX: (801) 621-2666
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LAND SURVEYORS * TRAFFIC ENGINEERS
STRUCTURAL ENGINEERS * LANDSCAPE ARCHITECTS

PROJECT NUMBER: 5799-230

NOTE:

Bid documents should not be separated or issued as partial sets to subcontractors. Bidders are responsible for all portions of the documents that pertain to the work covered by sub-bids. Bidder assumes full responsibility for errors or misinterpretations resulting from use of partial sets of Bidding Documents by itself or any sub-bidder.

Conflicting information or errors found in the construction documents should be brought to the attention of the architect immediately so that questions and concerns may be clarified by addendum. In the event of a conflict in the drawings, bidder should not assume that the least expensive option will meet the project requirements.

ADVENTURE'S FIRST STOP
MAVERIK

STORE #250
MAVERIK, Inc.
5100 East &
2500 North
Eden, Utah

#	DATE	DESC

ISSUE:	1/15/2015
PROJECT NO:	0
DRAWN BY:	RWH
CHECKED BY:	JNR

SHEET TITLE

Site Plan

C1

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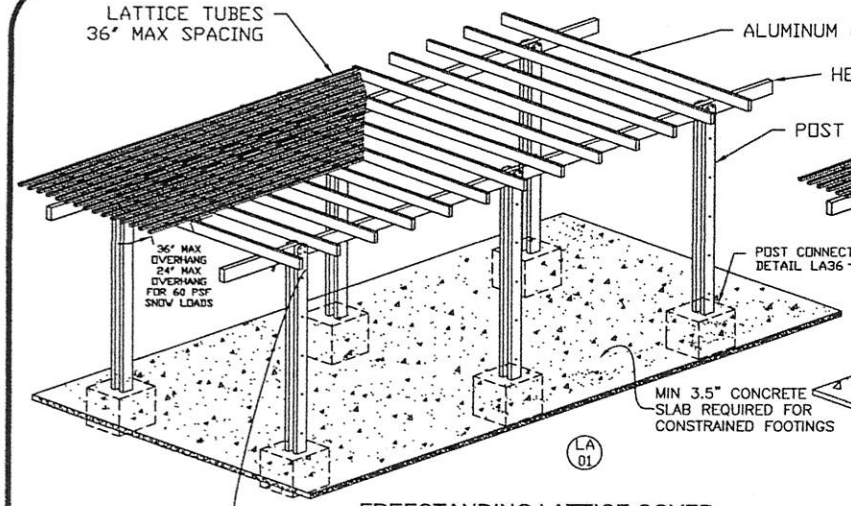
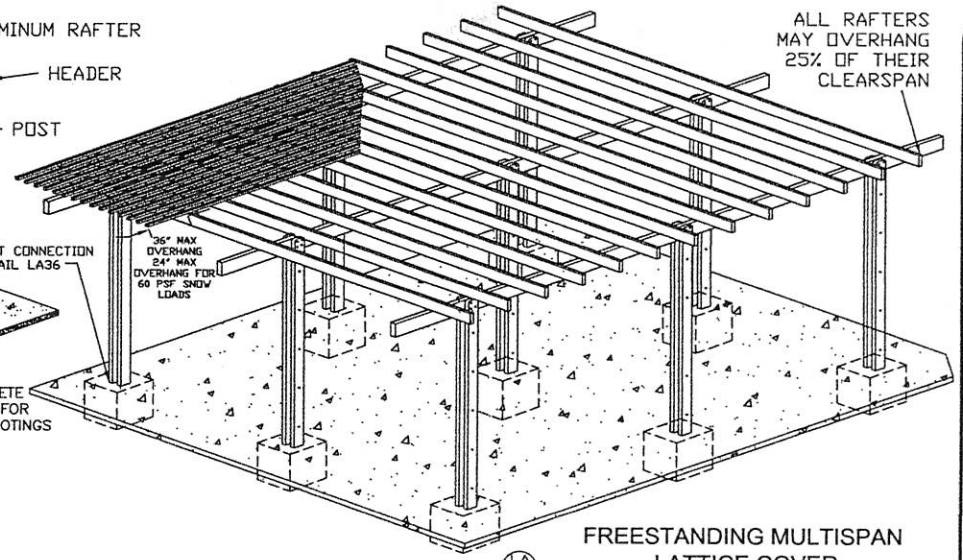
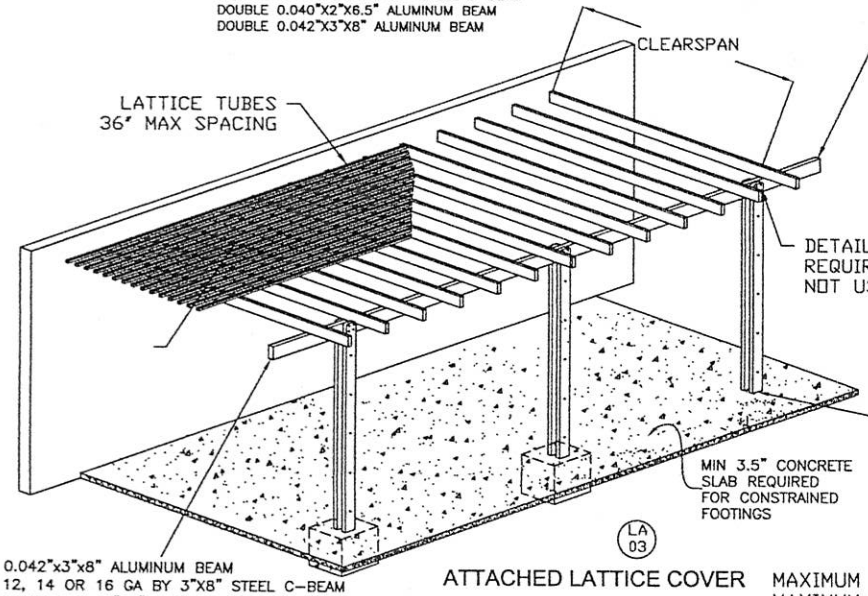


FREESTANDING LATTICE COVER

0.042"x3"x8" ALUMINUM BEAM
12, 14 OR 16 GA BY 3"X8" STEEL C-BEAM
DOUBLE 0.040"X2"X6.5" ALUMINUM BEAM
DOUBLE 0.042"X3"X8" ALUMINUM BEAM



FREESTANDING MULTISPAN LATTICE COVER



ALL HEADERS MAY OVERHANG 25% OF POST SPACING

SINGLE SPAN ATTACHED PATIO COVER DOES NOT REQUIRE FOOTINGS

DETAIL LA24, LA25 OR LA26 REQUIRED IF DETAIL LA36 IS NOT USED.

ALL LATTICE STRUCTURES W/ SURFACE MOUNTED POSTS MUST CHECK TABLES L1 AND L2 ON SHEET M5

0.042"x3"x8" ALUMINUM BEAM
12, 14 OR 16 GA BY 3"X8" STEEL C-BEAM
DOUBLE 0.040"X2"X6.5" ALUMINUM BEAM
DOUBLE 0.042"X3"X8" ALUMINUM BEAM

ATTACHED LATTICE COVER

MAXIMUM HEIGHT FOR PATIO COVERS IS 12'.
MAXIMUM HEIGHT FOR COMMERCIAL COVERS AND CARPORTS IS 15'.

COMPONENT DETAILS
LATTICE: LA21

RAFTERS: LA04, LA05, LA21(3X3 ONLY)

HEADERS: LA04, LA05, LA06, LA25, LA26

POSTS: LA15, LA17, LA19, LA20, LA22

CONNECTION DETAILS
LATTICE/RAFTER LA27

RAFTER/HEADER LA27, LA38, LA39

HEADER/POST LA24, LA25, LA26, LA28

POST/SLAB LA35

POST/FOOTING LA34, LA36

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