

FOUNDATION PLAN KEYNOTES

1) LOCATION OF FIRE SPRINKLER RISER, COORDINATE RISER LOCATION TO AVOID BUILDING FOOTINGS.

PORTION OF SLAB IN FRONT OF ELECTRICAL EQUIPMENT TO SLOPE 1.8% AWAY FROM

3 - #5 EACH WAY

FOOTING SCHEDULE REINFORCEMENT SYMBOL(S) SIZE 30" SQ. x 24" DEEP FOOTING 5 - #5 EACH WAY 45" SQ. x 24" DEEP FOOTING 7 - #5 EACH WAY 72" SQ. x 24" DEEP FOOTING 10 - #5 EACH WAY 75" SQ. x 24" DEEP FOOTING 11 - #5 EACH WAY

FOUNDATION PLAN REFERENCE DETAILS

24" WIDE x 18" DEEP FOOTING

TYPICAL CONTROL JOINT DETAIL (SAWCUT)	A SD1,0
TYPICAL ISOLATION JOINT —	SD1.0
CORNER/INTERSECTION REINF. @ WALLS & FTGS. ————————————————————————————————————	SD1.0
STANDARD HOOKS FOR REINFORCING BARS —	SD1.0
CONCRETE LAP SPLICE TABLE ————————————————————————————————————	SD1.0
BEAM TIE / STIRRUP DETAIL	SD1.0
HOOKS AND BENDS —	G SD1.0

FOUNDATION PLAN SHEET NOTES

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 4,500 PSI AT 28 DAYS, SPECIAL INSPECTION **NOT REQUIRED** PLACE CONCRETE SLABS OVER 2 INCHES SAND, OVER 10-MIL POLYETHYLENE VAPOR BARRIER, OVER 2
- INCHES OF SAND OR GRAVEL BASE UNLESS OTHERWISE NOTED ON FOUNDATION PLAN OR SOILS UNLESS OTHERWISE NOTED, REINFORCE SLAB WITH #3 REBAR AT 18" O/C EACH WAY, PLACED AT
- CENTERLINE OF SLAB. BOTTOM OF FOOTING SHALL BE EMBEDDED AT LEAST 18 INCHES BELOW THE LOWEST ESTABLISHED ADJACENT NATURAL GRADE (OR COMPACTED FILL PER SOILS ENGINEER). CONTINUOUS WALL FOOTINGS
- SHALL HAVE A MINIMUM FOOTING WIDTH OF 18 INCHES.
- ALL HOLDOWNS SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION. SEE HOLDOWN DETAIL FOR MINIMUM FOOTING DEPTHS AND ANCHOR BOLT SPECIFICATIONS AT
- ALL ANCHOR BOLTS SHALL BE MIN. 12" LONG WITH A MIN. EMBEDMENT OF 7" (U.N.O.) SPACED AT 60" O/C, U.N.O. MINIMUM BOLT DIAMETER SHALL BE 5/8", U.N.O. SEE SHEAR PANEL SCHEDULE FOR REQUIRED ANCHOR BOLT SPACING AT SHEAR PANELS. PROVIDE A
- MINIMUM OF TWO ANCHOR BOLTS AT EACH SHEAR PANEL (ONE BOLT WITHIN 9" OF EACH PANEL EDGE) PROVIDE A MINIMUM OF 2 ANCHOR BOLTS FOR EACH PIECE OF MUDSILL WITH ONE BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 5 1/4" FROM THE ENDS OF THE MUDSILL.
- THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NO TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PROVIDE CONTROL JOINTS AT A SPACING OF NO MORE THAN 36 TIMES THE SLAB THICKNESS. JOINT

PLATE WASHERS A MINIMUM OF 3 INCH x 3 INCH X 0.229" THICK SHALL BE USED ON EACH ANCHOR BOLT;

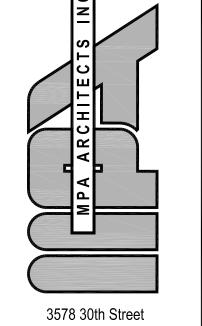
- PATTERNS SHALL BE AS CLOSE TO SQUARE AS POSSIBLE (1: 1.2 MAX RATIO, LENGTH TO WIDTH.) FOOTING ELEVATIONS SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS THAT MEET THE ABOVE CRITERIA & AS APPROVED BY THE SOILS ENGINEER. THE SOILS REPORT IS AN INTEGRAL PART OF THESE DOCUMENTS.
- . THE FOOTING EXCAVATION SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER. 14. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR. 15. ALL POWER DRIVEN PINS SHALL BE MANUFACTURED BY HILTI, PIN DS POWDER DRIVEN ANCHOR, .177 DIA
- x 1 1/2" LONG AT METAL STUD TRACKS, 3" LONG AT 2x WOOD PLATES, ESR 1663 ALL FOOTINGS SHALL BE STEPPED AT SLOPES THAT EXCEED ONE IN TEN. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94-94 AND PER
- SECTION 1903.9 MIXING AND PLACING OF CONCRETE AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO [ASTM C-33-94] STANDARD WEIGHT

EXCEPT FOR LOCAL OFFSETS, MIN. CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6". DISTANCE

- ALL CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 PCF (U.N.O.) NO CONDUIT PLACED IN THE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 3 1/2" THICK.
- BETWEEN CONDUITS SHALL BE 6". REFER TO THE FRAMING PLAN FOR THE LOCATION OF STRONG-WALLS (OR SIMILAR PRODUCTS). FOOTINGS, ANCHORS, INSTALLATION TEMPLATES, ETC. SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS AND SHALL TAKE PRECEDENCE OVER THE INFORMATION CONTAINED IN THIS
- . ALL CONTINUOUS FOOTINGS SHALL BE REINFORCED WITH 2-#4, TOP AND BOTTOM, U.N.O. ALL REINFORCING BARS SHALL CONFORM TO THE STD. SPECIFICATION FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 60 EXCEPT #3 AND #4 BARS SHALL BE GRADE 40.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

EMBED.

- 24. ALTERNATE TO ANCHOR BOLTS: 24.1. TITEN HD ANCHORS PER MANUFACTURER SPECIFICATIONS
- 24.2. A HILTI KWIK BOLT-II (ICC ESR-1385) COMPLYING WITH 2010 CBC OF THE SAME SIZE AND SPACING AS THE REQUIRED ANCHOR BOLT MAY BE USED AS A ALTERNATE TO THE ANCHOR BOLTS
- SPECIFIED (FOR INTERIOR WALL SUBSTITUTIONS ONLY). MAINTAIN MANUFACTURERS "EDGE DISTANCE" REQUIREMENTS FOR ALL SHOT PINS, SSTB ANCHOR
- BOLTS, POST AND COLUMN BASES, HOLDOWNS, KWIK BOLT TYPE ANCHORS AND EPOXY-TIE/RETROFIT
- 26. SEE SITE PLAN FOR ADDITIONAL CONCRETE FLATWORK LOCATIONS
- . SEE SHEET R1 FOR ADDITIONAL INFORMATION APPLICABLE TO THIS SHEET.
- 28. SEE EXCERPTS FROM SOILS REPORT ON SHEET R6 29. ALL DIMENSIONING AT COLUMNS IS FROM CENTERLINE, U.N.O.
- SLAB TO HOLDOWN POST CONNECTION DIMENSION MAY BE INCREASED TO A MAXIMUM OF 18" WHEN COLUMN BASE INTERFERES WITH TYPICAL HOLDOWN INSTALLATION.
- FOOTINGS FOR SITE WALLS, PARKING LOT LIGHTING, ETC. ARE NOT SHOWN ON THIS PLAN. SEE SITE PLAN FOR LOCATIONS.
- ALL SURFACE WATER SHALL DRAIN AWAY FROM BUILDING PROVIDE UFER GROUND NEAR MAIN ELECTRICAL SERVICE, MIN. 20 LINEAL FEET HORIZONTAL. VERIFY
- LOCATION WITH SERVING UTILITY COMPANY WHEN SPECIFIED, ALL SIMPSON SSTB ANCHOR BOLTS SHALL BE INSTALLED PER THE SPECIFICATIONS CONTAINED IN THE MOST RECENT EDITION OF THE SIMPSON CATALOG. THE MINIMUM FOOTING DEPTH AT SSTB BOLT INSTALLATIONS SHALL BE THE MINIMUM BOLT EMBEDMENT DEPTH PLUS 8 INCHES.
- TITEN HD HEAVY DUTY SCREW ANCHORS (ESR 2713) MAY BE SUBSTITUTED FOR SPECIFIED ANCHOR BOLTS. WHERE 1/2" OR 3/4" DIA. ANCHOR BOLTS ARE SPECIFIED, TITEN HD ANCHOR DIAMETER AND SPACING SHALL MATCH THE ANCHOR DIAMETER/SPACING INDICATED ON THE PLANS. WHERE 3/4" ANCHOR BOLTS ARE SPECIFIED, 5/8" DIAMETER TITEN HD SCREW ANCHORS MAY BE USED HOWEVER ANCHOR SPACING SHOULD BE REDUCED BY 50%. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR
- ALL TITEN HD SCREW ANCHOR INSTALLATIONS. FOUNDATION GRADING AND PREPARATION SHALL FOLLOW THE RECOMMENDATIONS PROVIDED IN THE SOILS INVESTIGATION REPORT PREPARED BY:
- LANDMARK CONSULTANTS, INC. 780 N. 4TH STREET EL CENTRO, CA 92243
- (760) 370-3000
- REPORT NO.: LE15031 DATED: MAY 2015
- 37. THE MAXIMUM ALLOWABLE SOIL BEARING SHALL BE AS FOLLOWS: CONTINUOUS FOOTING 2,000 PSF SPREAD FOOTING 2,000 PSF
- 38. ANY DEVIATIONS IN SOIL CONDITIONS FROM THOSE DESCRIBED IN THE SOILS REPORT ARE TO BE IMMEDIATELY REPORTED TO THE ARCHITECT. 9. SEE EXCERPTS FROM SOILS REPORT ON SHEET R2.0.



San Diego, CA 92104 V. 619.236.0595 F. 619.236.0557

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CLIENT COUNTY OF IMPERIAI PLANNING & DEV. SERVICES DEPT 801 MAIN STREET

PROJECT

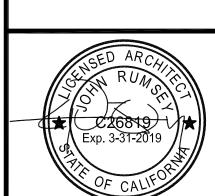
EL CENTRO, CA 92243

(760) 482-4236

REVISIONS

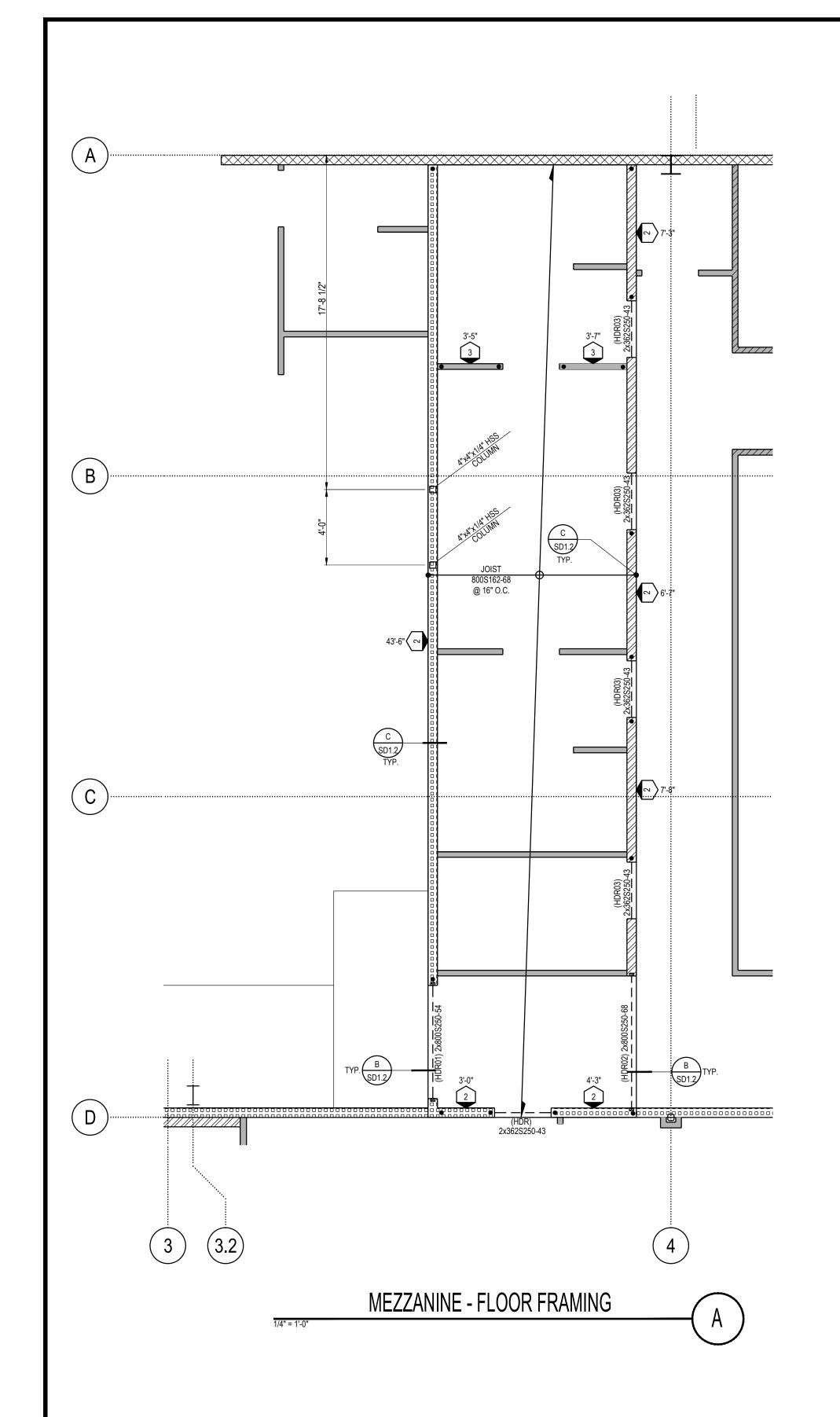
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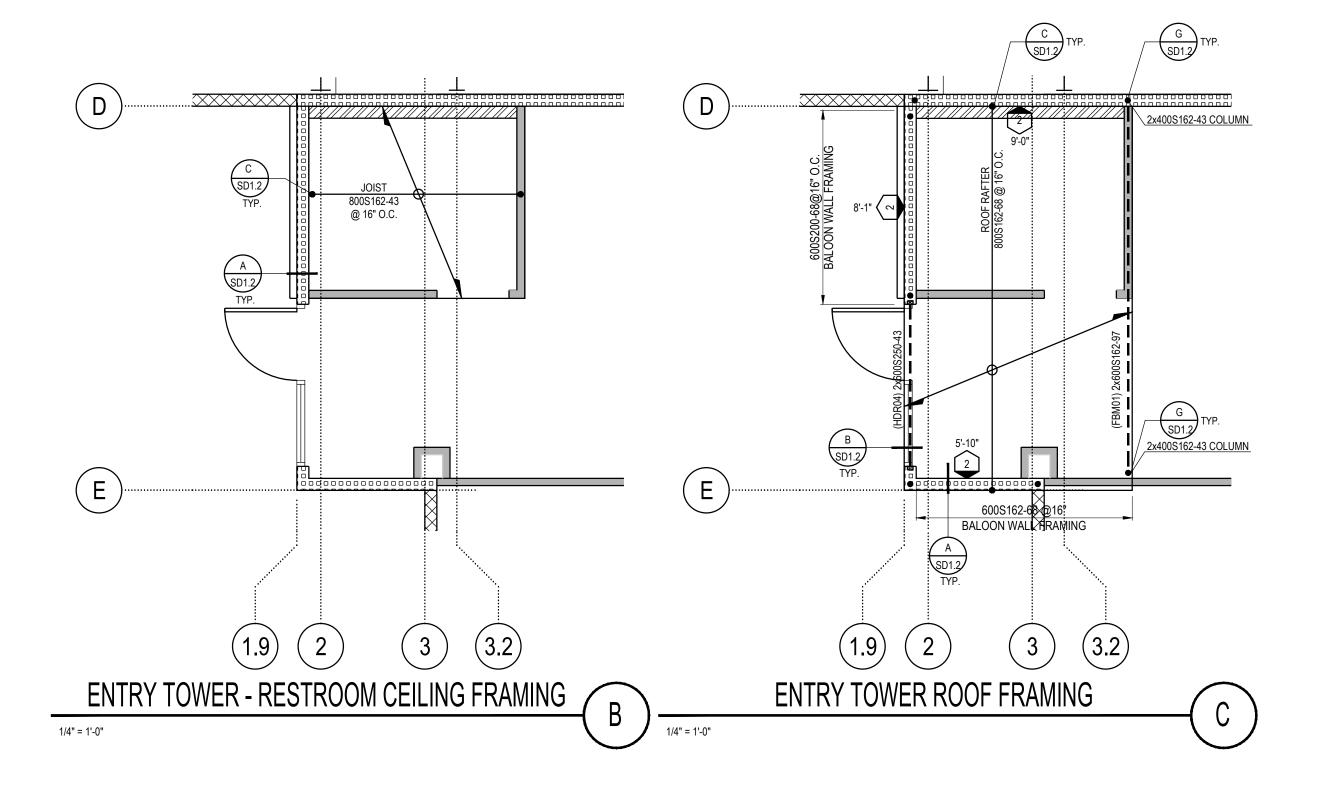
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SHEET TITLE **FOUNDATION**

15137_WH STRUCT PLAN





CLASS "A" RO	3:12 MAX ROOF S	
MANUFACTURER:	CARLISLE SYNTEC INCORPORATED	
PRODUCT:	SURE-WELD (TPO), SINGLE-PLY THERMOPL	ASTIC
SPECIFICATIONS:	-	
CRRC#:	0628-0002	
ICC-ES#:	ESR-1463	
APPLICATION:	MECHANICALLY-FATENED, SURE-WELD WH REINFORCED 60-MIL THICKNESS, ATTACHE! SHEET 1S", OVER WOOD DECK W/ CARLISLE PIRANHA PLATES. ADJOINING SHEETS ARE W/ A MIN. 1 1/2" WIDE HOT AIR WELD.	D OVER 2- LAYERS CARLISLE "FR BA E HPX OR HPXTRA FASTENERS AND
INSTALLED WEIGHT:	0.23 - 0.40 POUNDS PER SQUARE FOOT	
INSTALLATION:	INSTALL PER MANUFACTURER'S RECOMME	ENDATIONS

ALTERNATE CLASS "A" BUILT ROOFING SYSTEM:

INSTALLED WEIGHT: 1.75 - 2.6 POUNDS PER SQUARE FOOT

MANUFACTURER: JOHNS MANVILLE
PRODUCT: 4GNC (1) BASE SHEE

PRODUCT: 4GNC (1) BASE SHEET, (2) PLY-4 SHEETS, (1) GLASKAP
SPECIFICATIONS: JOHNS MANVILLE BUILT-UP ROOFING SPECIFICATION 4GNC

UL #: TGFU.R10167

APPLICATION: MECHANICALLY ATTACHED DIRECTLY OVER WOOD DECK. MECHANICALLY

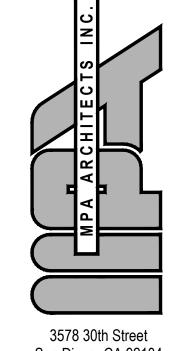
ATTACH (1) LAYER JM BASE SHEET, FULLY HOT MOP (2) LAYERS JM PLY-4, FULLY MOP (1) LAYER GLASKAP GRANULATED CAP SHEET. SBS IN THE ANGLES AND AT ALL PENETRATIONS AND WALLS, PROVIDE 10 YEAR NDL.

INSTALLED WEIGHT: 1.75 - 2.6 POUNDS PER SQUARE FOOT INSTALLATION: INSTALL PER MANUFACTURER'S RECOMMENDATIONS

SHEAR WALL SCHEDULE USE: 15/32" STRUCTURAL 1 APA RATED PLYWOOD SHEATHING								
WALL	MINIMUM	TOP AND BOTTOM	SCREW SPACING	TOP AND BOTTOM TRACK ATTACHMENT			SHEAR CAPACITY (PLF)	
TYPE		AT PANEL EDGES	TO RIM TRACK	TO CONCRETE	TO STRUCTURAL STEEL	43MIL		
1	S162-43	T150-54	#8 @ 6" OC	#8 @ 6" OC	SIMPSON 0.157Ø PDPA-175 W/ 1-1/4" EMBED @ 8" OC (ESR #2138)	SIMPSON 0.157Ø PDPA-125 W/ 1" EMBED @ 8" OC	712	
2	S162-43	T150-54	#8 @ 4" OC	#8 @ 4" OC	SIMPSON 0.157Ø PDPW-175 W/ 1-1/4" EMBED @ 4" OC (ESR #2138)	SIMPSON 0.157Ø PDPA-125 W/ 1" EMBED @ 4" OC	1064	
3	S162-43	T150-54	#8 @ 3" OC	#8 @ 3" OC	SIMPSON 0.157Ø PDPW-175 W/ 1-1/4" EMBED @ 4" OC (ESR #2138)	SIMPSON 0.157Ø PDPA-125 W/ 1" EMBED @ 4" OC	1420	
4	S162-43	T150-54	#8 @ 2" OC	#8 @ 2" OC	SIMPSON 0.157Ø PDPW-175 W/ 1-1/4" EMBED @ 4" OC (ESR #2138)	SIMPSON 0.157Ø PDPA-125 W/ 1" EMBED @ 4" OC	1752	

NOTES

- 1. ATTACH 15/32" STRUCTURAL 1 SHEATHING TO STEEL STUD FRAMING WITH SIMPSON #8 PPSD QUICK DRIVE SELF-DRILLING SCREWS (SHANK Ø = .130"). SCREW FASTENER HEAD MUST BE FLUSH WITH PANEL SURFACE AND PENETRATE INTO THE STEEL STUD FRAMING MEMBER A MINIMUM OF (3) EXPOSED THREADS. INSTALL FASTENER WITH A MINIMUM ~6" EDGE DISTANCE.
- 2. PROVIDE BLOCKING AT ALL PANEL EDGES PER 3/SD1.
- 3. FOR STUD ATTACHMENT TO TOP AND BOTTOM TRACK REFERENCE 2/SD1.
- 4. INSTALL PLYWOOD PANELS VERTICALLY.
- 5. PROVIDE FLAT STRAP BRIDGING AT ALL SHEAR WALLS PER 3/SD1.
- 6. PROVIDE FASTENERS @ 12" OC ALONG INTERMEDIATE FRAMING MEMBERS.



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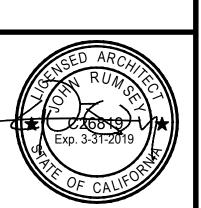
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SERVICES DEPT
801 MAIN STREET
EL CENTRO, CA 92243

PROJECT

(760) 482-4236

WINTERHAVEN
PUBLIC SAFETY FACILITY

REVISIONS



SHEET TITLE

MEZZANINE/ ENTRY TOWER FRAMING PLANS

09-19-17 SCALE:

| DATABASE: 15137_WH STRUCT PLANS | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 195 | 1



