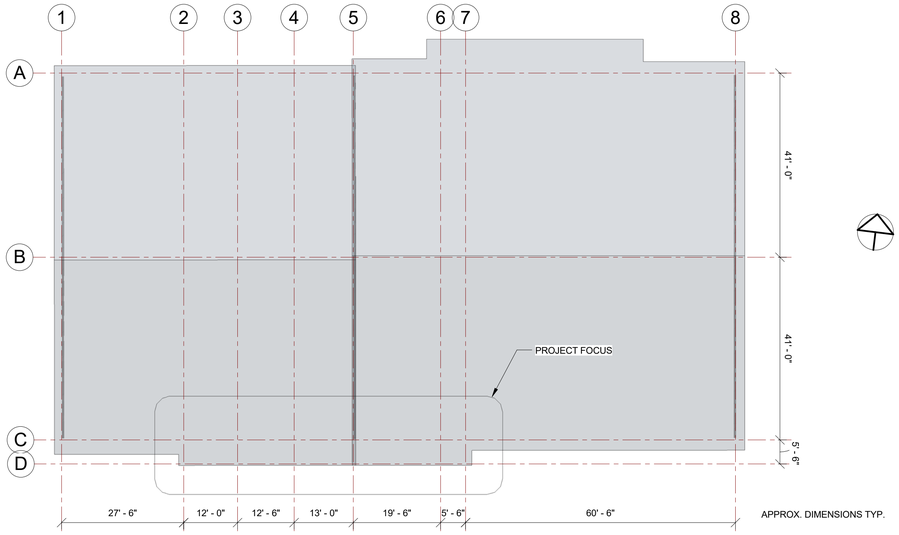
JOSEPH GOV'T CENTER ANNEX

EMPLOYEE ENTRANCE REPAIRS



BUILDING LAYOUT
1/16" = 1'-0"

GENERAL NOTES

1. UNLESS EXPLICITLY STATED IN THESE CONSTRUCTION DOCUMENTS, BY NOTE OR CLARIFICATION LETTER, THE ENTIRE SCOPE OF WORK REPRESENTED BY THESE DOCUMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

2. THESE CONSTRUCTION DOCUMENTS REPRESENT THE DESIGN INTENT OF THE DESIGN TEAM BASED ON DIMENSIONS OF EXISTING SITE AND/OR FIELD CONDITIONS. ACTUAL CONDITIONS MAY REQUIRE MODIFICATIONS OF THE CONSTRUCTION DETAILS TO ACHIEVE THE DESIGN INTENT. CONTRACTOR SHALL NOTIFY DESIGN TEAM IN WRITING OF ANY DISCREPANCIES RELATED TO EXISTING SITE AND/OR FIELD CONDITIONS PRIOR TO CONTINUING ANY WORK.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RECORD ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS AND TO BRING THEM TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING ANY WORK. ANY DEVIATION FROM THE CONDITIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE DESIGN TEAM.

4. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING ANY WORK.

5. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. WORK REQUIRED TO BE DONE BY ONE DOCUMENT AND NOT BY OTHERS SHALL BE DONE AS IF REQUIRED BY ALL.

6. THE CONTRACTOR AND SUBCONTRACTOR SHALL MAKE NO STRUCTURAL SUBSTITUTIONS, CHANGES, OR MODIFICATIONS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

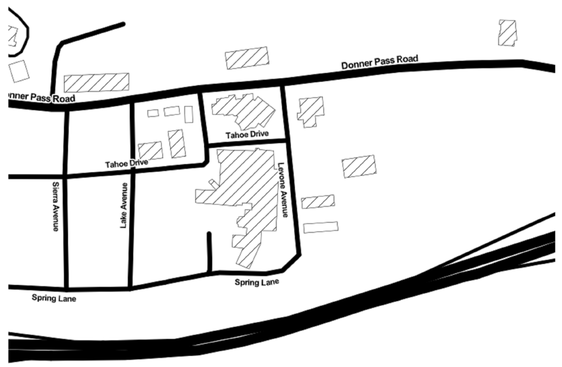
7. CONTRACTORS AND SUBCONTRACTORS SHALL ENSURE THAT ALL WORK IS PERFORMED IN A PROFESSIONAL AND WORKMANLIKE MANNER BY SKILLED MECHANICS OF THE TRADE. SUBCONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK IN A TIMELY MANNER.

8. BUILDER'S SET: THIS SET OF DRAWINGS HAS BEEN PREPARED SUFFICIENT TO OBTAIN A BUILDING PERMIT. ALL MATERIALS AND METHODS OF CONSTRUCTION NECESSARY TO COMPLETE THE PROJECT ARE NOT NECESSARILY DESCRIBED IN THIS "BUILDER'S SET". THE IMPLEMENTATION OF THE DRAWINGS REQUIRES THE CONTRACTOR TO BE THOROUGHLY KNOWLEDGEABLE WITH THE APPLICATIONS OF CODES AND THE METHODS OF CONSTRUCTION SPECIFIC TO THIS PROJECT AND TYPE OF CONSTRUCTION.

9. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.

10. ALL WATERPROOFING, FLASHING, AND DRAINAGE ARE TO BE DESIGNED AND PROVIDED BY THE BUILDER.

VICINITY MAP



PROJECT INFORMATION

PROJECT ENGINEER:

DOUGLAS GADOW
LINCHPIN STRUCTURAL ENGINEERING
530.563.6341 EXT. 1

CLIENT:

NEVADA COUNTY FACILITIES MAINTENANCE
10014 N BLOOMFIELD RD
NEVADA CITY, CA.

CONTRACTOR:

TBD

SHEET INDEX

Sheet Number	Sheet Name
S-000	COVER PAGE
S-001	SPECIFICATIONS
S-100	FOUNDATION & ROOF FRAMING PLAN
S-400	DETAILS

PROJECT SUMMARY

THE PROJECT IS A REPAIR OF AN EXISTING BUILDING FOR NEVADA COUNTY. A SPLITTER AND BEAM WILL BE REMOVED AND REPLACED WITH A NEW BEAM. ADEQUATE WATERPROOFING AND A REDESIGNED ICE-MELT SYSTEM. EXISTING POSTS WILL BE REPLACED TO REST ON NEW, EXPOSED FOOTINGS TO AVOID DETERIORATION. NEW STEPS AND HANDRAILS WILL REPLACE THE EXISTING RAMP.

APPLICABLE CODES

2013 CALIFORNIA BUILDING CODE (2013 CBC)
2012 NATIONAL DESIGN STANDARD (2012 NDS)
STEEL CONSTRUCTION MANUAL, 14 ED.(AISC 14 ED.)

GOVERNING AGENCY

TOWN OF TRUCKEE BUILDING DIVISION

10183 TRUCKEE AIRPORT RD
TRUCKEE, CA 96161

530.582.7820 EXT 1

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REGISTERED PROFESSIONAL ENGINEER
DOUGLAS L. GADOW
PRELIMINARY
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

1	REVISION 1	7/28/2016

JOSEPH GOV'T CENTER ANNEX

10075 LEVON RD
TRUCKEE, CA. 96161

DESIGNED BY BB
DRAFTED BY BB

CLIENT INFORMATION

NEVADA COUNTY
CONTACT ADDRESS

PROJECT# 1555

ISSUE DATE 07/07/16

SCALE As indicated

COVER PAGE

S-000

PRINT DATE: 8/4/2016 10:10:19 AM

WOOD

WOOD SHEATHING (STRUCTURAL): SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY. SHEATHING ON FLOOR AND WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS 3/4" OR THICKER. WOOD SHEATHING SHALL BE "STRUCTURAL I" CONFORMING TO PS1-95 AND/OR PS2-92. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE 24F-V4 DF/DF FOR SIMPLE SPANS AND 24F-V8 DF/DF FOR CANTILEVERED SPANS WITH E=1.8x10^6 PSI AND EWS3 DF FOR COLUMNS, ALL WITH EXTERIOR GLUE. ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED TO VIEW; INDUSTRIAL APPEARANCE WHERE NOT EXPOSED TO VIEW. ALL MEMBERS TO HAVE AITC OR APA-EWS STAMP.

FRAMING LUMBER: STANDARDS: EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF AN AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)
1) 6x FRAMING UNO: "DOUG FIR-LARCH" NO. 1 (Fb = 1350 PSI, Fv = 170 PSI)

2) 2x to 4x FRAMING UNO: "DOUG FIR-LARCH" NO. 2 (Fb = 900 PSI, Fv= 180 PSI)

3) INTERIOR NON-BEARING STUD WALLS: "DOUG FIR-LARCH" CONSTRUCTION GRADE (Fb = 950 PSI, Fc = 1800 PSI)

4) 2x & 3x T&G DECKING: "DOUG FIR-LARCH" SELECT (Fb = 1750 PSI, Fc = 1150 PSI)

5) THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING: "DOUG FIR-LARCH" CONSTRUCTION GRADE (Fb = 950 PSI, Fc = 1800 PSI)

6) UTILITY AND STANDARD GRADES NOT PERMITTED.

FRAMING LUMBER (MANUFACTURED): SHALL BE MANUFACTURED BY TRUS JOIST CORPORATION, OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS.

MICROLAM LVL: Fb = 2600 PSI E = 2000 KSI
PARALLAM PSL: Fb = 2900 PSI E = 2200 KSI **
TIMBERSTRAND LSL: Fb = 2325 PSI E = 1550 KSI
RIM MATERIAL: TIMBERSTRAND LSL
**FOR 5.25 x 7.25 OK TO USE LP SOLID START LVL IN LIEU OF PSL

MEMBERS HAVE BEEN DESIGNED TO SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

PRESERVATIVE TREATED WOOD REQUIREMENTS:
TREATMENTS OTHER THAN THOSE LISTED BELOW ARE NOT PERMITTED.

		APPLICATION	SPECIFIED MATERIAL	PRESERVATIVE TREATMENT (1)	CONNECTORS & FASTENERS (2)(3)
EXPOSURE	DRY	FOUNDATION SILL PLATES, TOP PLATES & LEDGERS ON CONCRETE OR MASONRY WALLS (4)	2x, 4x, 6x, OR GLU-LAM (FIR), LSL	CCA, SBX	GALV (G60)
				ACQ, CBA, CA	GALV (G185)
	WET	FRAMING, DECKING, POSTS & LEDGERS	2x, & 4x (FIR)	CCA	GALV (G90)
				ACQ, CBA, CA	GALV (G185)
			2x, & 4x (CEDAR)	NONE	GALV (G90)
		BEAMS & COLUMNS	6x OR GLU-LAM (FIR)	CCA	GALV (G90)
				ACQ, CBA, CA	GALV (G185)
			6x OR GLU-LAM (CEDAR)	NONE	GALV (G90)

1. CCA: CHROMATED COPPER ARSENATE
   SBX: DOT SODIUM BORATE
   ACQ: ALKALINE COPPER QUAT
   CBA & CA: COPPER AZOLE

2. CONNECTORS: JOIST HANGERS, STRAPS, FRAMING CONNECTORS, COLUMN CAP AND BASES, ETC.
FASTENERS: MACHINE BOLTS, ANCHOR BOLTS AND LAG SCREWS WITH ASSOCIATED PLATE WASHERS AND NUTS. NAILS, SPIKES, WOOD SCREWS, ETC.

3. G60, G90 & G185 PER ASTM A653 BATCH/POST HOT-DIP GALVANIZED PER ASTM A123 FOR CONNECTORS AND ASTM A153 FOR FASTENERS MECHANICALLY GALVANIZED FASTENERS PER ASTM B695, CLASS 55 OR GREATER.

4. AT CONTRACTORS OPTION, LEDGERS AND TOP PLATES A MINIMUM OF 8 FEET ABOVE GRADE ON CONCRETE OR MASONRY WALLS MAY BE UN-TREATED IF COMPLETELY SEPARATED FROM THE WALL BY A SELF ADHERING ICE & WATER SHIELD BARRIER (40 MIL MINIMUM).

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER 2013 CBC TABLE 2304.9.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. PRESSURE TREAT ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPING ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3X OR 4X PLATES SHOULD BE TREATED WITH A 20% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS, AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3X3X1/4 PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.9.10, 2308.9.11, AND 2308.10.4.2 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

FRAMING CONNECTORS: SHALL HAVE ICC APPROVAL AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA, OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

CARPENTRY

NAILS: CONNECTION DESIGNS ARE BASED ON "COMMON WIRE" NAILS WITH THE FOLLOWING PROPERTIES:

PENNYWEIGHT	DIAMETER (INCHES)	LENGTH (INCHES)
8d	0.131	2-1/2
10d	0.148	3
16d	0.162	3-1/2
20d	0.192	4

FOUNDATION DESIGN CRITERIA

DESIGN SOIL BEARING CAPACITY 2000 PSF ASSUMED FOR DEAD PLUS LONG TERM LIVE LOADS.

ALL FOUNDATION EXCAVATION TO BE CARRIED TO UNDISTURBED NATIVE MATERIAL OR PLACED IN AN APPROVED ENGINEERING FILL.

OVER-EXCAVATION OF SOILS TO BE BACKFILLED WITH CONCRETE.

UNUSUAL SITE CONDITIONS (LOOSE FILL, SUB-SURFACE WATER, ORGANICS, ETC.) TO BE REPORTED TO ENGINEER. DO NOT PROCEED WITH THE WORK UNTIL ISSUE IS RESOLVED.

BACKFILL AROUND FOOTINGS, BEHIND WALLS, & UNDER SLABS TO BE COMPACTED TO 95% RELATIVE DENSITY IN ACCORDANCE WITH ASTM D 1557 UNO IN THE SPECIFICATIONS OF A GEOTECHNICAL REPORT.

DO NOT BACKFILL AGAINST WALLS UNTIL CONCRETE OR MASONRY HAS REACHED IT'S FULL 28 DAY DESIGN STRENGTH, SUPPORTING STRUCTURE (FLOORS) ARE CONSTRUCTED, AND FOR 7 DAYS MIN.

THE BOTTOM OF ALL EXTERIOR BEARING WALL FOOTINGS SHALL BE A MIN. OF 18" BELOW FINISH GRADE.

FOUNDATION DESIGN CRITERIA:
SOIL BEARING PRESSURE: 3500 PSF

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CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS; CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE":

ACI:
1. ACI-116 'CEMENT AND CONCRETE TERMINOLOGY'.
2. ACI-301 'STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
3. ACI-302 'GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION'.
4. ACI-304 'GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE'.
5. ACI-305 'HOT WEATHER CONCRETING'.
6. ACI-306 'COLD WEATHER CONCRETING'.
7. ACI-308 'STANDARD SPECIFICATION FOR CURING CONCRETE'.
8. ACI-309 'STANDARD PRACTICE FOR CONSOLIDATION OF CONCRETE'.
9. ACI-311 'GUIDE FOR CONCRETE INSPECTION'.
10. ACI-315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.
11. ACI-318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
12. ACI-506R 'GUIDE FOR SHOTCRETING'.

ASTM:
1. ASTM C33 'STANDARD SPECIFICATION FOR CONCRETE AGGREGATES'.
2. ASTM C94 'STANDARD SPECIFICATION FOR READY-MIX CONCRETE'.
3. ASTM C150 'STANDARD SPECIFICATION FOR PORTLAND CEMENT'.
4. ASTM C260 'STANDARD SPECIFICATION FOR AIR-ENTRAINED ADMIXTURES FOR CONCRETE'.
5. ASTM C309 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE'
6. ASTM C494 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE'.
7. ASTM C595 'STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS'.
8. ASTM C618 'STANDARD SPECIFICATION FOR ... FLY-ASH...', MAXIMUM LOSS ON IGNITION SHALL BE 1.0%.
9. ASTM C1017 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE'.
10. ASTM C-1116 'SYNTHETIC FIBER REINFORCED CONCRETE AND SHOTCRETE'.
11. ASTM C-1218 'STANDARD TEST METHOD FOR WATER-SOLUBLE CHLORIDE IN MORTAR AND CONCRETE'.

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT, MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C-33

CEMENT: CEMENT SHALL CONFORM TO ASTM-150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI-318, CHAPTER 5. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

ITEM	SPEC'D f'c (PSI) (DESIGN BASED ON 2500 PSI)	MAX. W/C RATIO	MIN. (2) FLYASH (PCY)	MAX. AGG. SIZE (IN)	NOTES	MIN. CEMENTITOUS (1) MATERIAL (SACKS/YARD)
BASEMENT, RETAINING, AND STEM WALLS	2500 at 28 DAYS	0.45	100	3/4		5-1/2
FOUNDATIONS	2500 at 28 DAYS	0.50	--	3/4		5
SLAB ON GRADE	3000 at 28 DAYS	0.45	100	3/4	3	5-1/2
COLUMNS AND SHEAR WALLS U.N.O.	4000 at 28 DAYS	0.50	--	3/8		5-1/2
ELEVATED BEAMS & SLABS	4000 at 28 DAYS	0.45	100	3/4		5-1/2
ALL OTHER CONCRETE	4000 at 28 DAYS	0.50	--	3/4		5-1/2

CONCRETE MIX NOTES:

1. TOTAL CEMENTITIOUS MATERIAL IS THE SUM OF ALL CEMENT PLUS FLYASH.

2. AT THE CONTRACTORS OPTION FLYASH MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL.

3. FIBROUS CONCRETE REINFORCEMENT SHALL BE "FIBERMESH" MANUFACTURED BY SI CONCRETE SYSTEMS OR PRE-APPROVED EQUAL AND SHALL CONFORM TO ASTM C-1116 TYPE III 4.1.3, PERFORMANCE LEVEL 1, AND SHALL BE 100 PERCENT VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. DOSAGE SHALL FOLLOW MANUFACTURER'S RECOMMENDATION BUT NOT LESS THAN 1.5 LB/CU. YD.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF ENGINEER.

FORMWORK STRIPPING

1) COLUMNS & WALLS - COLUMNS AND WALLS NOT SUPPORTING FRAMING WEIGHT MAY BE STRIPPED AS SOON AS FORMS CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

2) BEAMS & SLABS - BEAMS AND SLABS MAY BE STRIPPED AND BECOME SELF SUPPORTING AS SOON AS THEIR COMPRESSIVE STRENGTH REACHES 75% OF THE SPECIFIED DESIGN STRENGTH. RESHORING SHALL BE PROVIDED FOR ALL CONSTRUCTION LOADS THEREAFTER PER THE GENERAL CONTRACTOR.

COLD WEATHER PLACEMENT

1) COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2) NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING AND SUBSEQUENT COMPACTING THE GROUND WITH HEATERS IS PERMISSIBLE.
3) CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4) THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER PLACING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5) NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F. 0 TO 30° F. BELOW 0° F.	60 65 70	55 60 65
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55	50
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50	40

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. KEYWAYS PER SECTION 2.2.2.5B ARE NOT REQUIRED UNLESS DETAILED ON THE STRUCTURAL DRAWINGS. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 6 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 13 FEET O.C. FOR SLABS ON GRADE. PERPENDICULAR SPACING RATIO SHALL NOT EXCEED 1.5.

2. WALLS AND COLUMNS: COORDINATE CONSTRUCTION JOINTS WITH ARCHITECTURAL REVEALS.

3. BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.

EMBEDDED ITEMS

EMBEDDED CONDUIT IS NOT PERMITTED IN SLAB EXCEPT WHERE SPECIFICALLY SHOWN. IT SHALL BE PLACED AND REINFORCED PER THE TYPICAL CONCRETE DETAILS. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.

ITEM	CURING METHOD
ALL SLABS ON GRADE	2,3, & 5
BASEMENT WALLS	4
ELEVATED SLABS NOT EXPOSED TO EARTH OR WEATHER	2,3, & 5
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

1. PROVIDE PRE-APPROVED MOIST CURE METHOD FOR A MINIMUM OF 7 DAYS.

2. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.

3. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND PER MANUFACTURERS RECOMMENDATIONS TO ALL EXPOSED SURFACES IMMEDIATELY AFTER FINAL FINISHING.

4. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND PER MANUFACTURERS RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.

5. APPLY A SILANE SEALER WITH A MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURERS RECOMMENDATIONS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 555" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 GRADE B WHEN TESTED AT A FLUID CONSISTENCY PER CRD- C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. NO GROUTING SHALL BE DONE BELOW 40° F.

EPOXY: MASTER BUILDERS "PASTE LPL", OR HILTI "HY-150", OR SIMPSON "S.E.T.", OR COVERT OPERATIONS "CIA-GEL 7000", OR PRE-APPROVED EQUAL. TWO PART LOW SAG EPOXY. GROUT MAY CONTAIN QUARTZ SAND AGGREGATE AS PROPORTIONED BY THE MANUFACTURER. USE EQUIPMENT WHICH WILL ACCURATELY MIX AND DISPENSE THE COMPONENTS. HOLE SHALL BE DRY AND CLEANED WITH WIRE BRUSH AND PRESSURIZED AIR JUST PRIOR TO INSTALLING GROUT. THE REBAR OR ROD SHALL BE CLEAN AND INSTALLED SLOWLY, AND SHALL BE ROTATED AS IT IS PUSHED INTO THE HOLE. COLD WEATHER GROUTING SHALL BE DONE WITH PROPER GROUT FORMULA. FIRST STAGES OF THE GROUTING OPERATION SHALL BE INSPECTED.

REINFORCING STEEL
REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (GRADE A706 FOR WELDED BARS UNLESS OTHERWISE NOTED, GRADE 40 FOR BEND OUT BARS). DETAIL, FABRICATE AND PLACE PER ACI 315 AND ACI 318. HORIZONTAL BEAM BARS, VERTICAL COLUMN BARS AND VERTICAL SHEAR WALL BARS SHALL MEET THE REQUIREMENTS OF ACI SECTION 21.2.5. REINFORCEMENT SHALL COMPLY WITH ASTM A706 FOR LOW ALLOY STEEL. BILLET STEEL A615 GRADE 60 REINFORCEMENT MAY BE USED IF THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED STRENGTH BY MORE THAN 18,000 PSI AND THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.

WELDED WIRE FABRIC REINFORCEMENT. SHALL CONFORM TO ASTM A-82 AND A-185. LAP ONE FULL MESH ON SIDES AND ENDS.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE

BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls") TOP BARS(1)	MINIMUM LAP SPLICE LENGTHS ("Ls") OTHER BARS	MINIMUM DEVELOPMENT LENGTHS ("Ld") TOP BARS(1)	MINIMUM DEVELOPMENT LENGTHS ("Ld") OTHER BARS	MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2-7"	2-7"	2-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-5"

SPLICE TABLE NOTES:
1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING COUPLERS: "CADWELD" OR "LENTON" BY ERICO PRODUCTS, INC., MBT BAR-LOCK, "NO-SLIP" BY FOX-HOWLETT INDUSTRIES, INC., OR PRE-APPROVED EQUAL. COUPLER MUST DEVELOP THE TENSILE STRENGTH OF THE BAR UNO.

REINFORCING STEEL COVER
PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE.

CONCRETE CAST AGAINST EARTH ------------ 3"
EXPOSED TO WEATHER OR EARTH ------------ 2"
TIES ON BEAMS AND COLUMNS ------------- 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"

STATEMENT OF SPECIAL INSPECTION

SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING:

- EPOXY GROUT - IF REQUIRED (TO BE PERFORMED BY ENGINEER).

GENERAL NOTES

ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-02 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION." CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING CODE (CBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

STRUCTURAL DRAWINGS DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS, WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN STRUCTURAL DRAWINGS.

DESIGN CRITERIA

RISK CATEGORY: 1 - TABLE 1604.5

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD	CONCENTRATED LOADS
ROOF	15 PSF	20 PSF	--
FLOOR	30 PSF	100 PSF	1000#

SNOW: FOR SITES OVER 25 PSF.

Pg = 400 PSF (GROUND SNOW LOAD)
Pf = .7PgCeCt I = 350 PSF (FLAT ROOF SNOW LOAD)
Ps = CsPf = 300 PSF (SLOPED ROOF SNOW LOAD)
Is = 1.0, Ce = 1.0, Ct = 1.1, Cs = 1.0

LATERAL FORCES

WIND:
ALTERNATE HEIGHTS METHOD
- EXPOSURE CATEGORY = C
- RISK CATEGORY = II
- BASIC WIND SPEED, V = 130 MPH
- Pnet = .00256V^2KzCnetKzt
- Kz = .97
- Cnet- WINDWARD = .43
- Cnet- LEEWARD = .51
- Pnet = 23.7 PSF

SEISMIC:
V = CsW

Cs = Sds/(R/I) ; 0.044 Sds*Ie < Cs < Sd1/((R/Ie)*T)

- SEISMIC IMPORTANCE FACTOR, Ie = 1
- SPECTRAL RESPONSE ACCELERATION Ss = 1.210, S1 = 0.400
- SITE CLASS PER TABLE 20-3.1 OF ASCE 7-10 = C
- SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.820, Sd1 = 0.427
- SEISMIC DESIGN CATEGORY = D
- ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE ANALYSIS
- RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1 (ASCE 7-10) R = 6.5
- Cs = 0.126
- DESIGN BASE SHEAR, V = 115 KIPS (ULTIMATE)

STRUCTURAL PLANS & DETAILS LEGEND

SHEET NUMBER DESCRIPTION

S-XXX

SHEET SEQUENCE NUMBER
SUB-GROUP OF DESIGNATORS USED WHEN MORE THAN ONE SHEET OF SAME TYPE IS REQUIRED

DETAIL TYPE DESIGNATOR
0 - TYPICAL DETAILS
1 - FOUNDATION DETAILS
2 - FRAMING DETAILS
3 - SHEAR DETAILS
4 - STEEL DETAILS
5 - MASONRY DETAILS
6 - CUSTOM DETAILS

SHEET TYPE DESIGNATOR
0 - SPECIFICATIONS
1 - FOUNDATION PLANS
2 - FRAMING PLANS
3 - SHEAR PLANS
4 - DETAILS
5 - STRUCTURAL ELEVATIONS
6 - SK DETAILS / CONSTRUCTION ADMIN

STRUCTURAL SHEETS

DETAIL CALL OUT DESCRIPTION

XXX
S-XXX

DETAIL BUBBLE
LOCATION OF STRUCTURAL DETAIL OR SECTION

DETAIL CUT LINE
DETAIL CUT LOOKING IN THE DIRECTION OF THE SECTION CUT. THE SECTION IS CONTINUOUS UNO.

DETAIL NUMBER
SPECIFIC TO EACH DETAIL.

DETAIL LOCATION NUMBER
SHEET LOCATION. SEE SHEET NUMBER DESCRIPTION

STRUCTURAL ABBREVIATIONS

AB - ANCHOR BOLT
ABV - ABOVE
ADD'L - ADDITIONAL
ADJ - ADJACENT
ARCH - ARCHITECTURAL
BLKG - BLOCKING
BLW - BELOW
BN - BOUNDARY NAILS
BTWN - BETWEEN
CBC - CALIFORNIA BUILDING CODE
CJ - CONSTRUCTION JOINT
CL - CENTERLINE
COL - COLUMN
CONC - CONCRETE
CONT - CONTINUOUS
DF - DOUGLAS FIR
DFPT - DOUGLAS FIR PRESSURE TREATED
DL - DEAD LOAD
DN - DOWN
E - EXISTING
ELECT - ELECTRICAL
EN - EDGE NAIL
ENGR - ENGINEER
ES - EACH SIDE
EW - EACH WAY
FDN - FOUNDATION
FF - FINISH FLOOR
FOHC - FREE OF HEART CORE
FOS - FACE OF STUD
FS - FAR SIDE
GA - GAGE
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GLB - GLUED LAMINATED BEAM
GYP BD - GYPSUM BOARD
HD - HOLDOWN
HORIZ - HORIZONTAL
HSS - HOLLOW STRUCTURAL SECTION
IBC - INTERNATIONAL BUILDING CODE
INTR - INTERMEDIATE
INV - INVERTED
K - KIPS
KP - KING POST
KS - KING STUD
LL - LIVE LOAD
LLV - LONG LEG VERTICAL
LLH - LONG LOG HORIZONTAL
LSL - LAMINATED STRAND LUMBER
LVL - LAMINATED VENEER LUMBER
LWT - LIGHTWEIGHT
MAX - MAXIMUM
MECH - MECHANICAL
MFR - MANUFACTURER
MIN - MINIMUM
MISC - MISCELLANEOUS
NS - NEAR SIDE
OC - ON CENTER
OCEW - ON CENTER EACH WAY
OH - OPPOSITE HAND
OPNG - OPENING
PL - PLATE
PLS - POUNDS PER LINEAR FOOT
PSF - POUNDS PER SQUARE FOOT
PSL - PARALLEL STRAND LUMBER
PT - PRESSURE TREATED
PW - PLYWOOD
REIINF - REINFORCEMENT
SCHED - SCHEDULE
SHTHG - SHEATHING
SMS - SHEET METAL SCREW
STD HK - STANDARD HOOK
SIM - SIMILAR
STAG - STAGGERED
STIFF - STIFFENER
SW - SHEARWALL
SYM - SYMMETRICAL
T&B - TOP & BOTTOM
T&G - TONGUE AND GROOVED
THRU - THROUGH
TN - TOE NAIL
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VERT - VERTICAL
VIF - VERIFY IN FIELD
W/ - WITH
WWF - WELDED WIRE FABRIC

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DESIGNED BY Designer
DRAFTED BY Drafter

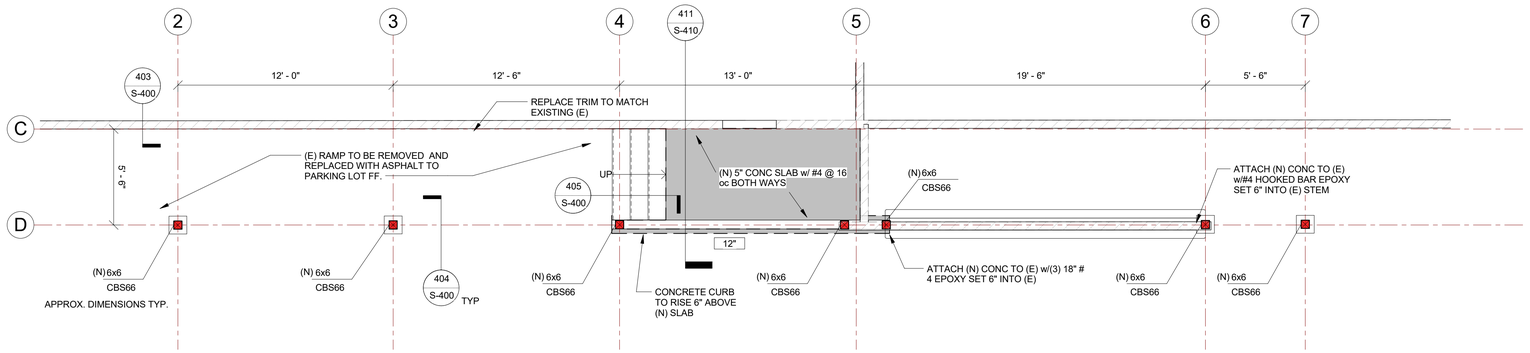
CLIENT INFORMATION
NEVADA COUNTY
CONTACT ADDRESS

PROJECT# 1555

ISSUE DATE 07/07/16
SCALE 1" = 1'-0"

SPECIFICATIONS

S-001



FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION NOTES

1.) SEE TYP NOTES AND DETAILS ON SHEET S-001 FOR ADDITIONAL INFORMATION.

2.) SECURE ALL HOLDOWN ANCHORS WITHIN FORMWORK PRIOR TO POUR.

3.) BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

4.) WIDEN/EXTEND FOOTINGS AS REQUIRED TO PROVIDE SUPPORT FOR ANY VENEER SHOWN ON ARCHITECTURAL DRAWINGS.

5.) INSTALL ALL HOLDOWN ANCHORS PER MANUFACTURER SPECS & EDGE DISTANCE REQUIREMENTS.

FOUNDATION & FLOOR FRAMING LEGEND

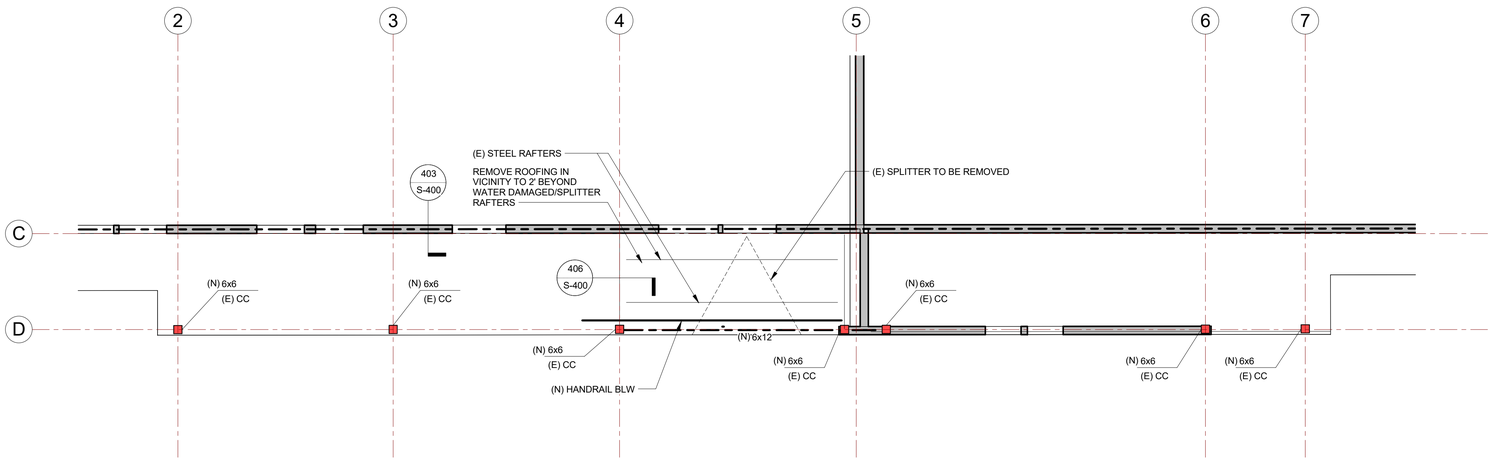
- (E) FOOTING
- (N) FOOTING
- WALLS ABOVE FRAMING
- CONCEALED BEAM OR HEADER
- FLOOR JOIST

POST , TRIMMER OR COLUMN

MEMBER SIZE
6x6
PC
HARDWARE

FOUNDATION NOTES

1" = 1'-0"



FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING NOTES

1) ROOF SHEATHING TO BE 5/8" APA RATED 40/20 W/ 10d (0.148 SHANK DIAMETER) at 6" O.C. BOUNDARY & EDGES AND 12" O.C. FIELD (UNO). PROVIDE 4" O.C. NAILING INTO ALL BLOCKING, OUTRIGGERS AND GABLE TRUSSES. SEE DIAPHRAGM NAILING DETAIL ON S-430 FOR MORE INFO.

2) SEE ADDITIONAL REQUIREMENTS IN STRUCTURAL SPECIFICATIONS SHEET S-001.

FRAMING LEGEND

- WALLS BELOW FRAMING
- WALLS ABOVE FRAMING
- EXPOSED BEAM OR RAFTER
- CONCEALED BEAM OR HEADER
- FLOOR JOIST
- RAFTER

POST , TRIMMER OR COLUMN

MEMBER SIZE
MEMBER TYPE
6x6 POST
CC
HARDWARE

NOTES
1. DASH INDICATES NO HARDWARE

- POST BELOW FRAMING
- DISCONTINUOUS POST ABV FRAMING

RBM1-DENOTES MEMBER IN CALCULATION

ROOF FRAMING NOTES

1" = 1'-0"

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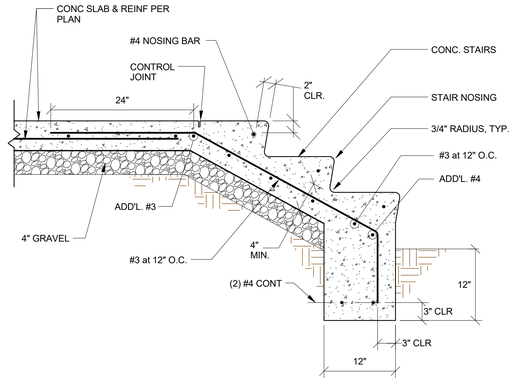
FOUNDATION & ROOF FRAMING PLAN

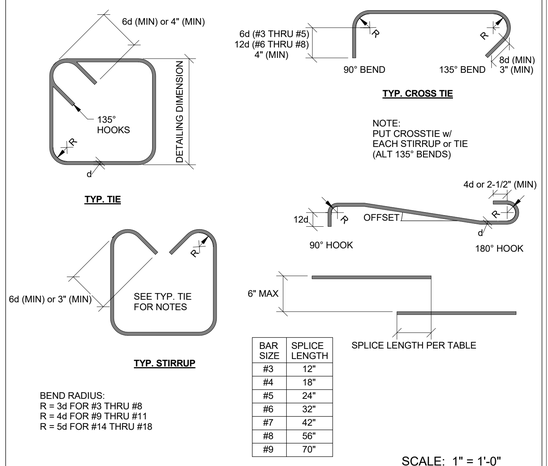
S-100

PRINT DATE:8/4/2016 10:10:21 AM



SCALE: 1" = 1'-0"

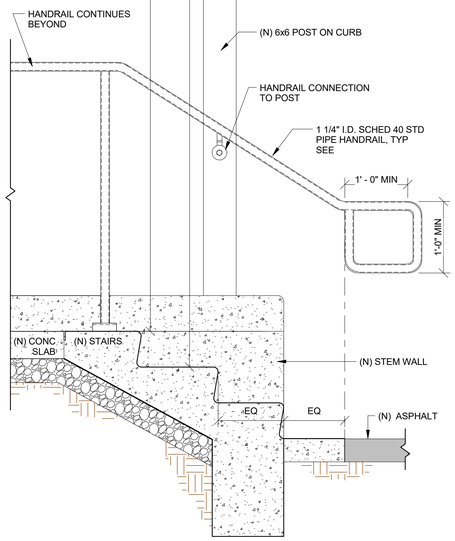
EXTR CONC. STAIR ON GROUND DET | 405



BAR SIZE	SPLICE LENGTH
#3	12"
#4	18"
#5	24"
#6	32"
#7	42"
#8	56"
#9	70"

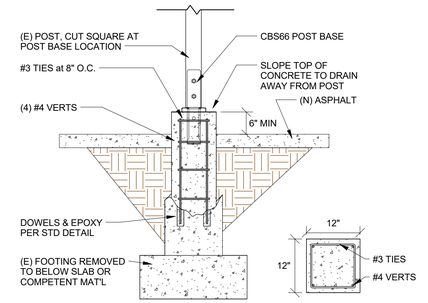
SCALE: 1" = 1'-0"

TYP BENDS AND HOOKS | 402



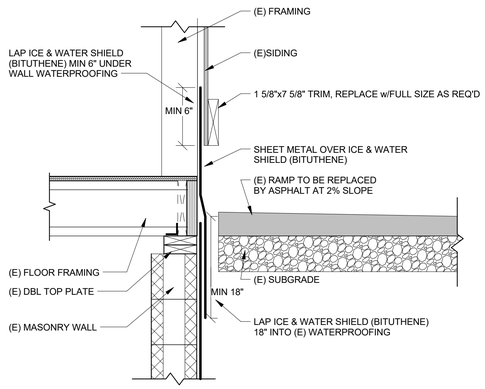
SCALE: 1" = 1'-0"

STAIR TREADS & GUARDRAIL | 406



SCALE: 3/4" = 1'-0"

PIER FOOTING DETAIL | 404



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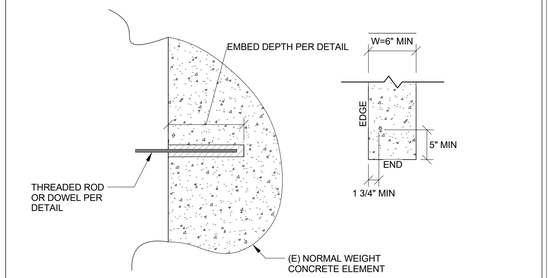
(E) SIDING | 403



NOTES:

1. ALL INSTALLATION AND DESIGN PROCEDURES ARE BASED UPON ESR REPORT ESR-1772 WHICH COMPLIES WITH 2003 IBC, 2003 IRC, AND 1997 UBC REQUIREMENTS.
2. SEE DETAILS ABOVE FOR EDGE DISTANCE REQUIREMENTS.
3. SEE APPROPRIATE DETAILS FOR ROD SIZE AND EMBEDMENT DEPTH.
4. THE CONTRACTOR IS TO COORDINATE EPOXY INSTALLATION SPECIAL INSPECTION WITH ENGINEER OF RECORD OR APPROVED SPECIAL INSPECTION AGENCY.

INSTALLATION:

1. ANCHOR HOLES SHALL BE DRILLEDINTO CONCRETE TO A PREDETERMINED DEPTH, USING A HANDHELD, ELECTRO-PNEUMATIC ROTARY HAMMER DRILL OR APPROVED EQUAL HAVING A CARBIDE TIP CONFORMING TO ANSI B212.15-1994 OR APPROVED EQUAL.
2. ANCHOR HOLES SHALL BE CLEANED OF DUST AND DEBRIS USING AN OIL-FREE COMPRESSED AIR AND A NYLON BRUSH.
3. HOLES MAY BE DRY, DAMP OR FILLED WITH WATER AS LONG AS THERE IS NO DEBRIS.
4. A CLEAN, STATIC MIXING NOZZLE SHALL BE ATTACHED TO THE SET ADHESIVE CARTRIDGE.
5. PRIOR TO INJECTION OF THE ADHESIVE INTO THE ANCHOR HOLE, AN INITIAL AMOUNT OF ADHESIVE SHALL BE DISPENSED THROUGH THE NOZZLE UNTIL THE TWO ADHESIVE COMPONENTS ARE UNIFORMLY BLENDED. THE INITIAL AMOUNT OF ADHESIVE SHALL BE DISCARDED.
6. THE ADHESIVE SHALL BE INJECTED INTO THE HOLE, STARTING AT THE BOTTOM, UNTIL THE HOLE IS APPROXIMATELY HALF FULL.
7. ANCHORS, WHICH ARE FREE OF OIL, SCALE, AND RUST, SHALL BE INSERTED INTO THE HOLE WITH A SLOW TWISTING MOTION TO THE REQUIRED EMBEDMENT DEPTH. AT A MINIMUM, THE ADHESIVE SHALL BE LEVEL WITH THE CONCRETE SURFACE AFTER INSERTION OF THE ANCHOR.

NOTE: ANCHORS INSTALLED OR CURED IN CONCRETE, MASONRY, OR BRICK AT TEMPERATURES BELOW 40 DEGREES F ARE OUTSIDE THE SCOPE OF REPORT ESR-172 AND ALTERNATE EPOXY SYSTEMS SHOULD BE REQUIRED. ALTERNATIVELY, CONTRACTOR MAY OPTION TO WAIT UNTIL OPTIMUM TEMPERATURES.

SPECIAL INSPECTION:

ADHESIVE ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH IBC SECTION 1704 OR UBC 1701. SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704 OF THE IBC SHALL BE PROVIDED FOR INSTALLATION UNDER THE IRC. THE APPROVED INSPECTOR SHALL RECORD THE FOLLOWING:

1. ADHESIVE PRODUCT DESCRIPTION, INCLUDING THE ADHESIVE PRODUCT NAME AND EXP. DATE, ADHESIVE MIXING PROCEDURE FOR THE SET-PAC CARTRIDGE (IF USED), AND USE OF PROPER NOZZLES FOR ALL CARTRIDGES DESCRIBED IN ESR REPORT.
2. ANCHOR BOLT OR REBAR MATERIAL GRADE, DIAMETER, LENGTH, AND CLEANLINESS.
3. REQUIRED DRILL BIT DIAMETER AND COMPLIANCE WITH ANSI B212.15-1994 OR APPROVED SUBSTITUTE PER ER REPORT.
4. HOLE DEPTH AND CLEANLINESS.
5. VERIFICATION OF OF PHYSICAL PROPERTIES OF THE CONCRETE, CONCRETE MASONRY WALL CONSTRUCTION, SUBSTRATE TEMPATURE AT THE TIME OF INSTALLATION, ACTUAL GEL TIME WHEN ANCHORS ARE INSTALLED NOT DISTURBED; AND VERIFICATION OF ANCHOR INSTALLATION AND LOCATION (SPACING AND EDGE DISTANCE) IN ACCORDANCE WITH THIS DETAIL.

SCALE: 1" = 1'-0"

TYP EPOXY INSTALLATION PROCEDURE | 401

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DETAILS

S-400

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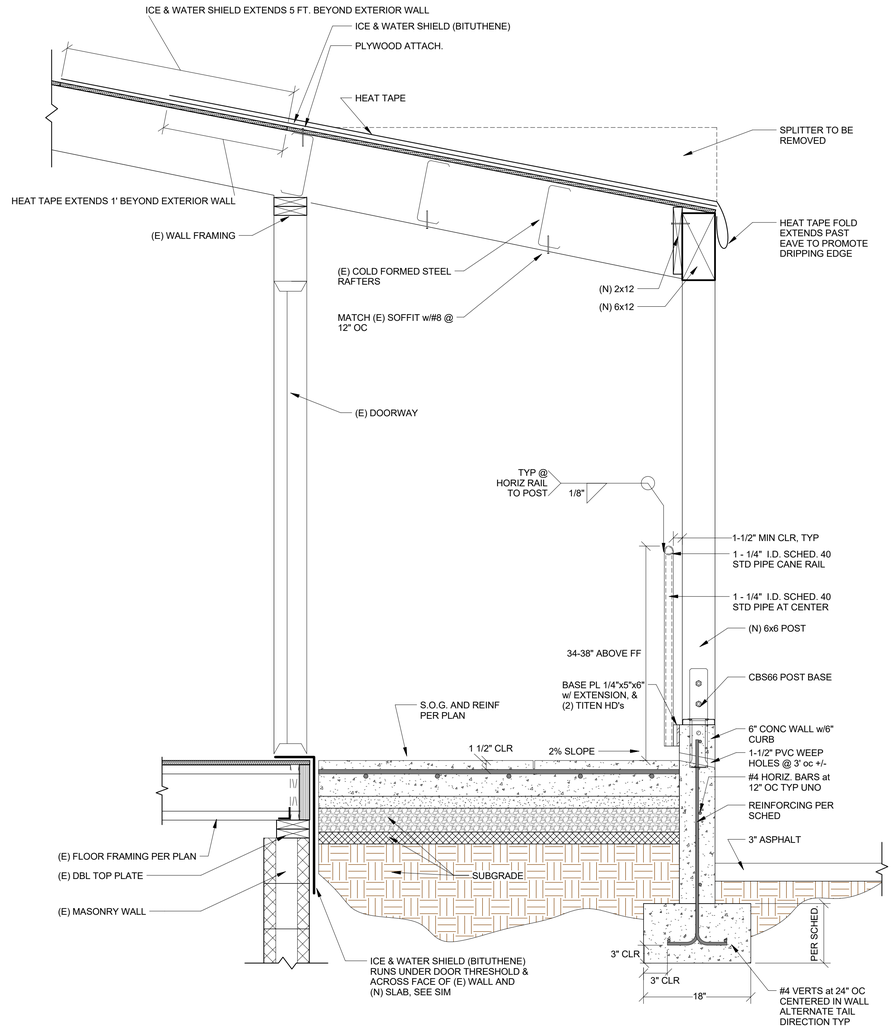

SCALE: 1" = 1'-0"

SLAB & ROOF SECTION

411

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SECTION DETAILS

S-410