



GENERAL NOTES

PART I. GENERAL

A. CODES AND STANDARDS

- 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE WITH SAN FRANCISCO AMMENDMENT...
2. WHERE MORE STRINGENT, THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS, LATEST EDITION AND REVISION, SHALL APPLY TO THE WORK...
A) ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE...
B) ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS...
C) ACI 315 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT...
4. CONTRACTOR SHALL KEEP AT LEAST ONE FULL COPY OF THE FOLLOWING DOCUMENTS IN THE FIELD OFFICE AT ALL TIMES...

B. SITE CONDITIONS

- 1. DIMENSIONS AND DETAILS SHOWN IN STRUCTURAL DRAWINGS ARE TAKEN FROM THE ORIGINAL DESIGN DOCUMENTS AND MAY NOT ACCURATELY REPRESENT CURRENT EXISTING CONDITIONS...
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS AND QUANTITIES AND FOR THE FITTING TO OTHER WORK...
3. THE CONTRACTOR REMAINS FULLY RESPONSIBLE FOR THE DISPOSITION OF AND FOR THE EXPOSURE TO PERSONS OF ALL MATERIALS...
4. CONSTRUCTION SEQUENCE: DESCRIPTIONS OF LIMITATIONS ON CONSTRUCTION SEQUENCE ARE INTENDED TO ASSIST CONTRACTOR IN COORDINATING THE WORK OF THE PROJECT...

PART II. REINFORCED CONCRETE

A. CONCRETE MIXTURES

- 1. CONCRETE STRENGTHS AND UNIT WEIGHTS ARE LISTED BELOW. ALL CONCRETE MIXES SHALL CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTERS 4 AND 5 OF ACI 318, EXCEPT WHERE MORE STRINGENT PROVISIONS ARE PROVIDED HERE.

Table with columns: CONCRETE ELEMENT, EXPOSURE CATEGORY (F, S, P, C), CONCRETE COMPRESSIVE STRENGTH (F'c (PSI)), CORRE AGGREGATE, W/C, AIR, SLUMP, MINIMUM CEMENT (LB PER CY). Includes rows for FOUNDATION WALL REPAIR and EXPOSURE CATEGORIES PER ACI 318-08 CHAPTER 4.

- \* F'c SHALL BE THE COMPRESSIVE STRENGTH AT 28 DAYS.
2. HAND-MIXED CONCRETE SHALL BE USED ONLY WHERE SPECIFICALLY ACCEPTED...
3. MIX DESIGNS: CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE A MIX DESIGN...
4. MIX REQUIREMENTS: PROPORTIONS FOR EACH MIX SHALL PROVIDE FOR HOMOGENEOUS, COHESIVE, WORKABLE AND DENSE CONCRETE...
5. SLUMP: CONCRETE SHALL BE PROPORTIONED AND PRODUCED TO PROVIDE A MAXIMUM SLUMP OF 4" AT THE POINT OF DELIVERY...
6. WATER-REDUCING ADMIXTURE SHALL BE INCORPORATED INTO CONCRETE AT A MINIMUM DOSAGE OF 3.5 FLUID OUNCES PER CWT OF CEMENT...

- A) WATER-REDUCING ADMIXTURE SHALL CONFORM TO ASTM C 494, TYPE A
1) WR-91, OR EUCON MR, BY EUCLID CHEMICAL CO.
2) WIRDA WITH HYCOL OR DARACEM 55, BY W.R. GRACE GRACE CONSTRUCTION PRODUCTS
3) POZZOLITH 332-N OR POLYHEED 997, BASF CONSTRUCTION PRODUCTS TECHNOLOGIES INC.
4) PLASTOCRETE 161 OR SIKAMENT HP, BY SIKA CORP.
5) OTHER ACCEPTED ADMIXTURE

- 7. ALL CONCRETE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS, AND STRICTLY IN ACCORDANCE WITH CURRENT CEMENT/AD MIXTURE SYSTEM DETAILED SPECIFICATIONS...
8. SHRINKAGE COMPENSATING CONCRETE SHALL BE PROPORTIONED WITH ASTM C845, TYPE K CEMENT.

D. FORMWORK

1. FORM CONTACT FACES:

- A) PLYWOOD FOR FORMWORK SHALL BE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS-1, STRUCTURAL 1 1/2" B (CONCRETE FORM) PLYFORM, DOUGLAS FIR, EXTERIOR GRADE, HDU THERMO-SET RESIN-IMPREGNATED, MILL OILED AND EDGE-SEALED...
B) REVEAL FORMERS AND REFORMERS: SEALED (POLYURETHANE) MILLED FIR (DRESSED AND SANDED), FOR STRAIGHT REVEALS...

- 2. FORM SEALERS AND RELEASE AGENTS SHALL BE GUARANTEED BY MANUFACTURER TO BE NON-GRAIN RAISING, NON-STAINING AND TO NOT IMPAIR THE NATURAL BOND OF PAINT, WATERPROOFING AND OTHER SURFACE COATINGS.
A) FORM SEALER FOR LUMBER SURFACES AND PLYWOOD EDGES: POLYURETHANE, CLEAR COATING.
B) SEALER FOR BOARD FORMS: PENETRATING SEALER, NON-GRAIN RAISING, NON-STAINING...
C) FORM RELEASE AGENTS: PROVIDE CHEMICALLY REACTIVE, NON-STAINING, NON-TOXIC, COMMERCIALY BLENDED FORM RELEASE AGENTS...

- 1) GENERAL PURPOSE FORM RELEASE AGENTS
I) EUCOSLIP VOX, BY EUCLID CHEMICAL CO.
II) DEBOND FORM COATING, BY L & M CONSTRUCTION CHEMICALS
III) ACTION KOTE, BY SYMONS CORP.
IV) OTHER WHERE ACCEPTED.

3. FORM TIES:

- A) FOR SURFACES NOT EXPOSED TO VIEW: TIES SHALL BE OF STANDARD MANUFACTURE, FACTORY FABRICATED, DESIGNED SPECIFICALLY FOR USE IN CONCRETE FORMWORK...
B) EXPOSED CONCRETE AND FINISHED CONCRETE: ALL TIES HOLDING FORMS IN POSITION SHALL BE STAINLESS STEEL, GALVANIZED OR EPOXY COATED...
C) CONCRETE SURFACES EXPOSED TO VIEW: FORM TIE SPACING AND RIGIDITY OF FORMWORK SHALL BE SUFFICIENT TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH AND TRUE SURFACES AND EDGES...

4. CONSTRUCTION AND ERECTION OF FORMS

- A) CONCRETE SURFACES EXPOSED TO VIEW: FORM TIE SPACING AND RIGIDITY OF FORMWORK SHALL BE SUFFICIENT TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH AND TRUE SURFACES AND EDGES...
B) CONCRETE SURFACES NOT EXPOSED TO VIEW: CONTRACTOR MAY USE PLYWOOD, LUMBER, METAL AND OTHER MATERIALS SPECIFIED.
5. FORM RELEASE TREATMENT: CLEAN AND TREAT ALL REMOVABLE FORMS WITH FORM RELEASE AGENT PRIOR TO PLACING REINFORCEMENT...
7. CLEAN AND TIGHTEN ALL FORMS IMMEDIATELY PRIOR TO CASTING CONCRETE...

REINFORCEMENT

- 1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 (GRADE 60) UNLESS OTHERWISE NOTED.
2. DEFORMED STEEL REINFORCING BAR SIZES, NOMINAL BAR DIAMETERS AND NOMINAL CROSS SECTIONAL AREAS SHALL BE IN ACCORDANCE WITH ACI 318.
3. DETAILING OF REINFORCING STEEL SHALL CONFORM TO ACI DETAILING MANUAL...
4. MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT (SUBJECT TO TOLERANCES PERMITTED BY CODE) IN ACCORDANCE WITH ACI 318...
5. TIE WIRES, WHERE APPLICABLE, SHALL BE TIED TO AND BENT BEHIND BARS...
6. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE STRUCTURAL DRAWINGS OR AS ACCEPTED.
7. UNLESS INDICATED SPECIFICALLY TO THE CONTRARY, ALL REINFORCEMENT SHALL BE SPLICED WITH TENSION LAP SPLICES DEVELOPING THE FULL TENSILE CAPACITY OF THE REINFORCEMENT.

PART III. SPECIAL INSPECTION

A. SPECIAL INSPECTION IS REQUIRED PER CALIFORNIA BUILDING CODE CHAPTER 17.

Table with columns: TYPE, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION, REFERENCED STANDARD, IBC REFERENCE. Includes rows for INSPECT REINFORCEMENT AND VERIFY PLACEMENT, INSPECT ANCHORS POST-INSTALLED, VERIFY USE OF REQUIRED DEIGN MIX, PRIOR TO CONCRETE PLACEMENT.

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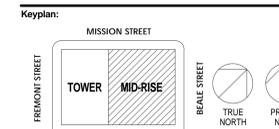
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Table with columns: No., Revision/Issue, Date

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Professional Stamp:



Phase:
CONSTRUCTION DOCUMENTS

Project Title:
301 Mission Street
Shoring Wall Investigation

Drawing Title:

GENERAL NOTES

Table with columns: Drawn, Check, Scale, Sheet, Design, Date, Project Numbers. Includes values for LERA, 06 MAR 2018, PDX021.

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