

FLOOR SLAB REPAIR AND ROOF FRAMING REINFORCEMENT

LOADS ICE CREAM FACTORY AND DISTRIBUTION CENTER

2000 WAYNE AVENUE, SAN LEANDRO, CA

GENERAL NOTES

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THE PURPOSE OF THESE DRAWINGS IS TO PROVIDE GUIDELINES FOR DEALING WITH FROZEN SOIL AND PROVIDE AN APPROPRIATE FLOOR SLAB PER NEW REFER EQUIPMENT BY OWNERS. THE PROJECT ALSO INCLUDES THE INSTALLATION OF A NEW STEEL ROOF BEAM.

CONFORM TO THE FOLLOWING, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. ITEMS WITH CHECK BOXES APPLY IF CHECKED.

GENERAL

00701 TYPICAL CONDITIONS:

TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.

00702 SPECIFICATIONS:

THE SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE DRAWINGS. WHERE REFERENCE IS MADE TO STANDARD SPECIFICATIONS, THE LATEST ADOPTED REVISIONS SHALL BE USED.

00703 SIMILARITY:

IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

00704 EQUIPMENT SUPPORTS:

PROVIDE MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AS REQUIRED. AT CONCRETE, PROVIDE THESE ITEMS PRIOR TO CASTING CONCRETE.

00705 EXISTING CONDITIONS:

CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AND SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH OR DIFFER FROM THE NEW WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THESE CONFLICTS AND/OR DIFFERENCES ARE RESOLVED.

00706 SUBMITTALS:

ITEMS SUBMITTED FOR REVIEW SHALL HAVE CONTRACTOR'S APPROVAL AND DATE INDICATED ON EACH COPY. SUBMIT TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR.

00707 BRACING AND SHORING:

THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE CONDUCT OF THE WORK, INCLUDING ALL CONSTRUCTION METHODS AND PROCEDURES; SITE SAFETY; AND METHODS, DESIGN, AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES. ENGINEER'S SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW OF CONTRACTOR'S SAFETY MEASURES. V.I.F. ALL DIMENSIONS

00708 DOCUMENT NOTE:

THESE DOCUMENTS SHOW BASIC RELATIONSHIPS AND INFORMATION NECESSARY TO OBTAIN A BUILDING PERMIT. CONSEQUENTLY, SOME DETAILS AND MATERIALS INCLUDING BUT NOT LIMITED TO FINISHES AND MOISTURE MANAGEMENT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DURABLE MATERIALS AND LABOR FOR A COMPLETE AND OPERATING BUILDING SATISFACTORY TO THE OWNER, CITY BUILDING DEPARTMENT, AND IN CONFORMANCE WITH GOVERNING CODES. ALL WORK SHALL BE DONE TO THE HIGHEST STANDARDS OF THE INDUSTRY. ALL PRODUCTS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR THE INTENDED APPLICATION.

01001 CODE:

CALIFORNIA BUILDING CODE, 2007 EDITION.

01002 DESIGN LOADS:

DEAD LOADS: ACTUAL IN-PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS.

LIVE LOADS: ROOF 20/PSF

EARTHQUAKE LOADS: (N/A)

FOR ALLOWABLE STRESS DESIGN:

$$F_p = \text{-----} \underline{0.47} W_p$$

01040 COORDINATION:

COORDINATE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF ANY CONFLICTS AND DO NOT PROCEED WITH THE WORK UNTIL CONFLICTS ARE RESOLVED.

01065 SPECIAL INSPECTION:

PROVIDE INSPECTION IN ACCORDANCE WITH CBC SECTION 108. SPECIAL INSPECTOR SHALL BE RETAINED BY OWNER, ARCHITECT OR ENGINEER. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 1701 FOR THE FOLLOWING WORK:

- DRILLING AND CONCRETE PLACEMENT IN FOUNDATION PIERS.
- CONCRETE AND REINFORCEMENT, EXCEPT UNREINFORCED SLABS-ON-GRADE.
- STRUCTURAL WELDING, WHERE INDICATED ON SHEET NOTES.
- HIGH STRENGTH BOLTING.
- STRUCTURAL MASONRY, WHERE INDICATED ON SHEET NOTES.
- HOLD-DOWNS AND SILL PLATE ANCHOR BOLTS IN WOOD FRAME CONSTRUCTION, WHERE INDICATED ON SHEET NOTES.
- WOOD STRUCTURAL-USE PANEL SHEAR WALLS WHERE INDICATED ON SHEAR WALL SCHEDULE.
- WOOD STRUCTURAL-USE PANEL ROOF AND FLOOR DIAPHRAGMS WHERE INDICATED ON SHEET NOTES.

01066 STRUCTURAL OBSERVATION

THE STRUCTURAL ENGINEER OF RECORD SHALL PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN CBC SECTION 1702. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL. THE ENGINEER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE ENGINEER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

01068 PREFABRICATED CONSTRUCTION

APPROVAL PROCESS AND INSPECTION PROCEDURES SHALL COMPLY WITH CBC SECTION 1704.

05120 STRUCTURAL STEEL

05121 MATERIALS:

- WIDE FLANGE COLUMNS: ----- ASTM A36, Fy= 36 KSI
- OTHER STRUCTURAL STEEL: ----- ASTM A36, Fy= 36 KSI
- STEEL TUBING: ----- ASTM A500, GRADE B, Fy= 46 KSI
- PIPE: ----- ASTM A53, GRADE B, Fy= 35 KSI
- BOLTS: ----- ASTM A307
- HIGH STRENGTH BOLTS, UON: ----- ASTM A325
- ANCHOR BOLTS: ----- ASTM A36; HOOK DIAMETERS MIN
- THREADED ROD: ----- ASTM A36

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS, WITH CONTRACTOR'S APPROVAL INDICATED ON EACH SHEET, FOR ALL REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION.

05122 FABRICATION AND ERECTION:

PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS," JUNE 1, 1989.

05123 WELDING:

PER AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL (ANS/AWS D1.1)," CERTIFIED WELDERS. CONFORM TO THE CURRENT AWS CODE AND AISC ASD SPECIFICATIONS.

PAINT:

STEEL SHALL BE PAINTED WITH PREMIUM QUALITY PAINT APPROPRIATE FOR ANTICIPATED EXPOSURE.

06000 ROUGH CARPENTRY

06050 FASTENERS AND ADHESIVES:

06051 HARDWARE:

PROVIDE FRAMING HARDWARE AS SHOWN AND AT TOP AND BOTTOM OF ISOLATED POSTS; PROVIDE SIZES TO FIT MEMBERS; NAIL FULLY; AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. RETIGHTEN ALL THROUGH - FLOOR BOLTS AND HOLD - DOWN ANCHOR BOLTS TO TIGHT FIT AS LATE AS POSSIBLE IN THE CONSTRUCTION PROCESS. DO NOT CRUSH THE WOOD. LAG BOLT HOLES: PREDRILL FULL SHANK DIAMETER FOR SHANK; PREDRILL 60 - 75 PER CENT OF SHANK DIAMETER FOR THREADED PORTION.

03000 CONCRETE

03001 GENERAL:

ALL CONCRETE SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-95)," EXCEPT AS MODIFIED BELOW.

03200 CONCRETE REINFORCEMENT:

REINFORCING BARS: ALL BARS -----ASTM A615, GRADE 60

* CONCRETE PROTECTIVE COVER FOR REINFORCEMENT: -----2" @ FORM, 3" @ SOIL, AND 1-1/2" @ HORIZONTAL EXPOSED SURFACES.

WELDING REINFORCEMENT: NOT PERMITTED

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS, WITH CONTRACTOR'S APPROVAL INDICATED ON EACH SHEET, FOR ALL REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION.

03250 CONCRETE ACCESSORIES:

03251 ADHESIVE ANCHOR BOLTS:
 HILTI HVA SYSTEM AS SUPPLIED BY HILTI, INC.
 SIMPSON SET EPOXY AS MANUFACTURED BY SIMPSON STRONG-TIE.

INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

03252 POWER-DRIVEN FASTENERS:

AS MANUFACTURED BY COMPANY CHECKED BELOW, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 HILTI, INC. TULSA OK

03300 CAST-IN-PLACE CONCRETE:

03301 GENERAL:

COMPLY WITH THE FOLLOWING, UON.
• MINIMUM COMPRESSIVE STRENGTH, F'c, AT 28 DAYS: 3000 PSI (2500 PSI FOR DESIGN)

MAXIMUM SLUMP ----- 4 IN

• USE NO CALCIUM CHLORIDE IN ANY CONCRETE.
• SUBMIT CONCRETE MIX DESIGNS AND STRENGTH DATA, WITH CONTRACTOR'S APPROVAL INDICATED, FOR REVIEW PRIOR TO ANY CONCRETE PLACEMENT.

03302 CURING:

CONCRETE SURFACES EXPOSED TO THE ATMOSPHERE WITHIN 7 DAYS OF PLACEMENT SHALL BE PROTECTED AND CURED AS NECESSARY UNTIL SPECIFIED DESIGN STRENGTH HAS BEEN ACHIEVED. CONCRETE SHALL BE WET CURED 7 DAYS MIN. PROVISIONS SHALL BE MADE FOR ANY EXTREME TEMPERATURES THAT COULD AFFECT CURING.

CONCRETE TESTING: FROM EACH READY-MIX TRUCK BEFORE DISCHARGE

- PERFORM 1-SLUMP TEST
- PREPARE 1-TEST CYLINDER. STORE CYLINDER IN THE SAME ENVIRONMENT AS THE POURED CONCRETE.

01071 ABBREVIATIONS AND SYMBOLS:

| | | | |
|-------|-----------------------------|-------|----------------------------|
| AB | ANCHOR BOLT | HDR | HEADER |
| ALT | ALTERNATE | HORIZ | HORIZONTAL |
| ARCH | ARCHITECT(URAL) | HSB | HIGH STRENGTH BOLT |
| BLDG | BUILDING | INFO | INFORMATION |
| BLKG | BLOCKING | INT | INTERIOR |
| BM | BEAM | JH | JOIST HANGER |
| BN | BOUNDARY NAIL | JT | JOINT |
| BOT | BOTTOM | L | ANGLE |
| CBC | CALIFORNIA BUILDING CODE | LX | MAXIMUM |
| CC | CENTER-TO-CENTER | MB | MACHINE BOLT |
| CJ | CONSTRUCTION JOINT | MC | MOISTURE CONTENT |
| CL | CENTERLINE | MNFR | MANUFACTURER |
| CLR | CLEAR | MIN | MINIMUM |
| CMP | COMPRESSIBLE | (N) | NEW |
| CMU | CONCRETE MASONRY UNIT | ML | MICROLLAM (LVL) |
| COL | COLUMN | N/A | NOT APPLICABLE |
| CONC | CONCRETE | No. | NUMBER |
| CONN | CONNECTION | NS | NEAR SIDE |
| CONT | CONTINUOUS | NTS | NOT TO SCALE |
| CP | COMPLETE PENETRATION (WELD) | OC | ON CENTER |
| d | PENNY (NAIL SIZE) | OP | OPPOSITE |
| D&E | DRILL & EPOXY | P | PARALLEL |
| DBL | DOUBLE | PERP | PERPENDICULAR |
| DET | DETAIL | PL | PLATE |
| DIA | DIAMETER | PN | PLATE NAIL |
| DP | DRILLED PIER | PT | PRESSURE TREAT |
| (E) | EXISTING | PW | PLYWOOD |
| EA | EACH | PWJ | PLYWOOD WEB JOIST |
| EJ | EACH FACE | REINF | REINFORCEMENT |
| EF | EXPANSION JOINT | REQD | REQUIRED |
| ELEV | ELEVATION | SAD | SEE ARCHITECTURAL DRAWINGS |
| EMBED | EMBEDMENT | SCD | SEE CIVIL DRAWINGS |
| EN | EDGE NAIL | SCHED | SCHEDULE |
| ES | EACH SIDE | SIM | SIMILAR |
| EW | EACH WAY | SOG | SLAB-ON-GRADE |
| EXP | EXPANSION | SQ | SQUARE |
| EXT | EXTERIOR | SST | STAINLESS STEEL |
| FDN | FOUNDATION | SYM | SYMMETRICAL |
| FF | FINISHED FLOOR | T&B | TOP AND BOTTOM |
| FL | FULL LENGTH | T&G | TONGUE & GROOVE |
| FLG | FLANGE | TB | TIE BEAM |
| FN | FIELD NAIL | TO | TOP OF |
| FOC | FACE OF CONCRETE | TOC | TOP OF CONCRETE |
| FPHC | FREE OF HEART CENTER | TOS | TOP OF STEEL |
| FOS | FACE OF STUD | TOT | TOTAL |
| FP | FULL PENETRATION (WELD) | TYP | TYPICAL |
| FS | FAR SIDE | UON | UNLESS OTHERWISE NOTED |
| FTG | FOOTING | VERT | VERTICAL |
| GALV | GALVANIZED | VIF | VERIFY IN FIELD |
| GB | GRADE BEAM | W/ | WITH |
| GI | GALVANIZED IRON | W/I | WITHIN |
| GLB | GLUE-LAMINATED BEAM | W/O | WITHOUT |
| GSN | GENERAL STRUCTURAL NOTES | WP | WORKING POINT |
| GWB | GYPSPUM WALLBOARD | # | SIZE OF REINFORCING BAR |
| HD(A) | HOLD-DOWN | @ | AT (SPACING) |
| HDG | HOT DIPPED GALVANIZED | | |

SUPPLEMENT 00708 DOCUMENT NOTE:

A MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE WRITTEN PRE-INSTALLATION DOCUMENTATION OF JOB-SITE PREPARATIONS AND/OR EXISTING CONDITIONS. SUCH DOCUMENTATION SHALL COMMUNICATE THAT PREPARATIONS COMPLY WITH RECOMMENDATIONS OF THE MANUFACTURER. POST-INSTALLATION DOCUMENTATION SHALL ALSO BE PROVIDED TO THE EFFECT OF PRODUCT/MATERIAL CERTIFICATION AND/OR WARRANTY. CONTRACTOR SHALL COORDINATE WORK TO ACHIEVE THIS DOCUMENTATION.

| REVISION | DESCRIPTION | INITIAL | DATE |
|----------|-------------|---------|------|
| | | | |

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|----------------------------|-----------|
| ISSUED FOR PROGRESS REVIEW | 3/25/2011 |
| ISSUED FOR PLAN CHECK | |
| ISSUED FOR PERMIT | |
| ISSUED FOR BID | |
| ISSUED FOR CONSTRUCTION | |

SEAL:



CONSULTANT:

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PROJECT:

**LOADS
ICE CREAM**

**2000 WAYNE AVENUE
SAN LEANDRO, CA**

SHEET TITLE:

**GENERAL
STRUCTURAL NOTES**

PROJ. NO. 2011-017.01

PREPARATION AND REVIEW

| | |
|-------------|-----|
| DRAWN BY | CT |
| DESIGNER | JEC |
| PROJ. MGR. | JEC |
| PEER REVIEW | |

SHEET NUMBER:

S1.0

NUMBER: OF: