- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND 1. THE SOILS BEARING PRESSURE = 2,500 p.s.f. CONDITIONS AT THE JOB SITE, AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUB-CONTRACTORS, STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH 1997 CALIFORNIA BUILDING CODE. 3. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN
- ON PLANS, SECTIONS AND DETAILS. 4, NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 5. WHERE NO DETAILS SHOWN OR NOTED ON THE DRAWINGS, THE 5. BEFORE ANY CONCRETE IS PLACED, EXCAVATIONS SHALL BE CHECKED
- DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK. 6. DPENINGS, POCKETS, SLEEVES, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS, WALLS, COLUMNS AND FOOTINGS UNLESS 6. ALL FILL MATERIAL IS TO BE APPROVED BY THE SOILS ENGINEER OR
- SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. 7. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF, LOADS SHALL NOT EXCEED DESIGN 7. SUBGRADE SHALL BE 2" SAND OVER POLYETHYLENE FILM VAPOR LIVE LOADS FOR EACH PARTICULAR LEVEL. PROVIDE ADEQUATE SHORING AND BRACING IF LOAD EXCEED DESIGN LIVE LOAD OR 8. SIDE OF FOUNDATION MAY BE POURED AGAINST STABLE EARTH
- WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH. 8. THIS SET OF DRAWINGS REPRESENT THE FINISHED STRUCTURE, METHOD OF CONSTRUCTION NOT NECESSARY INDICATED, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT 10. NOT USED.

NOT BE LIMITED TO BRACING, SHORING, SCAFFOLDING, ETC.

- 11. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CRIBBING,
- 2. SOIL REPORT #1620-38 IS PREPARED BY SCOTT M. LECK OF TRC DATED APRIL 6, 2007.

TRUE TO LINE WITH ALL LOOSE MATERIAL AND STANDING WATER

AND APPROVED BY A QUALIFIED SOILS ENGINEER OR DEPUTY INSPECTOR

DEPUTY INSPECTOR AND APPROVED BY A QUALIFIED SOILS ENGINEER

OR DEPUTY INSPECTOR TO ENSURE COMPLIANCE W/ THE REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE TEMPORARY AND PERMANENT

DEWATERING FOR EITHER SURFACE WATER, GROUND WATER OR

TO ENSURE COMPLIANCE WITH THE REQUIREMENTS.

UNLESS SHOWN OR NOTED OTHERWISE.

SEEPAGE WATER.

12. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL SHALL BE PROPERLY COMPACTED. 4. SOIL ENGINEER OR DEPUTY INSPECTOR SHALL VERIFY THAT CONSTRUCTION AT THE SITE IS IN ACCORDANCE WITH THE RECOMMENDATIONS AND CONCLUSIONS OF HIS REPORT.

FINISHED EXCAVATION FOR FOUNDATION SHALL BE NEAT AND 14. NO VERTICAL EXCAVATIONS 5'-0" OR MORE IN DEPTH INTO WHICH

EARTH BANK,

13. CONTRACTOR SHALL BRACE OR PROTECT FROM LATERAL LOADS FOR PITS AND RETAINING WALLS UNTILL ATTACHING SLABS A PERSON IS REQUIRED TO DESEND SHALL BE PERMITTED.

SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN THE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONFORMING TO THE FOLLOWING:

LOCATION 28-DAY MIN.

COMPRESSIVE STRENGTH

A, SLAB ON GRADE 2500 ps:*

B. FOOTING 2500 psi* * WHERE SUBSTRATE EXPOSURE LEVEL IS SEVERE USE 4500 ps;

- WITH W/C RATIO OF 0.45 (MAX) 2. ALL CONCRETE MIX DESIGN SHALL BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 3. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II CEMENT.
- 4. AGGREGATE SHALL CONFORM TO ASTM C-33.
- 5. WATER SHALL BE CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS OR ORGANIC MATERIALS, DILS, SALTS AS PER U. B. C. SECTION 1903. 4.
- 6. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94, WATER-CEMENT RATIO IS LESS THAN 0,50
- 7. UNLESS SHOWN OR NOTED OTHERWISE, CONCRETE COVERAGE FOR

REINFORCING BAR TO FACE OF BAR SHALL BE AS FOLLOWS:

A. CONCRETE IN CONTACT WITH EARTH, UNFORMED B, CONCRETE IN CONTACT WITH EARTH, FORMED

- D. BEAMS, GIRDERS & COLUMNS (TO TIES OR STIRRUPS) 1½"
- 8. CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT EXCEED 1/3 OF THE THICKNESS OF THE SLAB AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING STEEL. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".
- 9, CONSTRUCTION JOINTS:

THE SURFACES OF ALL CONSTRUCTION JOINTS SHALL BE CLEAN, FREE FROM LOOSE DEBRIS. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.

10. CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECT 1905. 11 OF U.B.C.

11. REMOVAL OF CONCRETE FORMS AND SHORES SHALL BE IN ACCORDANCE WITH SECTION 1906, 2 OF U. B. C.

- 12. CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH THE PROVISION OF SECTION 1906, 3 OF U.B.C.
- 13. DESIGN AND CONSTRUCTION OF CONCRETE FORMWORK SHALL CONFORM TO ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
- 14. ALL SAW CUTS IN SLAB ON GRADE SHALL BE MADE NOT LATER THAN 24 HOURS AFTER PLACING CONCRETE.

- 1. ALL REINFORCING BARS SHALL BE ASTM A-615 GRADE 60 DEFORMED BILLET STEEL BARS, EXCEPT NOTED BELOW: A. WELDED SMOOTH WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- 2. GRADE 60 BARS SHALL BE MARKED SO ITS IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
- 3. THE TIE WIRE USED SHALL BE BLACK ANNEALED WIRE, 16 GA. OR
- HEAVIER.
- 4. BAR SUPPORTS SHALL CONFORM TO THE BAR SUPPORT SPECIFICATIONS CONTAINED IN THE "MANUAL OF STANDARD PRACTICE" BY ACI.
- 5, A CERTIFIED COPY OF MILL TEST ON EACH HEAT OF REINFORCING STEEL DELIVERED SHOWING PHYSICAL AND CHEMICAL ANALYSIS SHALL BE PROVIDED UPON REQUEST AT THE TIME OF SHIPMENT.
- 6. ALL REQUIREMENT OF CONCRETE REINFORCEMENT NOT COVERED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE".
- 7. REINFORCING STEEL AT THE TIME OF THE CONCRETE IS PLACED SHALL BE FREE FROM MUD, DIL, OR OTHER NON METALLIC CDATINGS THAT ADVERSELY AFFECT BONDING CAPACITY.
- 8. ALL HOOKS SHALL CONFORM TO THE BEND DIMENSION PER ACI
- "STANDARD HOOK" UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 9. REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN A MANNER THAT WILL INJURE THE MATERIAL.
- 10. REINFORCING BARS SHALL CONFORM ACCURATELY TO THE DIMENSIONS SHOWN ON THE DRAWINGS WITH THE FABRICATING TOLERANCES PER ACI "MANUAL OF STANDARD PRACTICE."
- 11. BARS SHALL BE SECURELY TIED TO PREVENT DISPLACEMENT DURING THE CONCRETE OPERATION AND ALL DOWELS SHALL BE WIRED IN PLACE BEFORE DEPOSITING CONCRETE.
- 12. SPLICES OF REINFORCEMENT SHALL HAVE 42 BAR DIAMETER LAP OR 2'-0" LAP MINIMUM.

- 13. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL HAVE SAME SIZE AS THE VERTICAL REINFORCEMENT, EMBEDMENT OF DOWELS SHALL BE 36 BAR DIAMETER OR 2'-0" MINIMUM UNLESS OTHERWISE SHOWN,
- 14. MINIMUM LAP OF MESH SHALL BE NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS TWO INCHES OR 60 DIA. OR 8 IN. WHICHEVER IS GREATER.

50" 48" 80″ 69" #9 89" 85″ 69″ NOTE: TOP BAR TENSION SPLICES ARE 1.3 TIMES ABOVE SPLICES TOP SPLICE LENGTHS APPLY TO HORIZONTAL REINFORCEMENT CAST

24"

NOTE: SEE PODIUM LEVEL WALL ELEVATIONS AND SHEARWALL ELEVATIONS FOR SPECIFIC SPLICE REQUIREMENTS.

WITH 12" OR MORE OF CONCRETE BELOW THE BAR.

15. REINFORCING BAR SPLICES AND NON-FOOTING EMBEDMENTS

28"

43"

62"

AS FOLLOWS:

BAR SIZE

#3 TO #4

ALL REINFORCING BARS TO HAVE A MINIMUM OF CLASS 'B' TENSION SPLICE

CONCRETE STRENGTH

CLASS 'B' TENSION SPLICE

3,000 PSI 4,000 PSI 6,000 PSI 7,000 PS

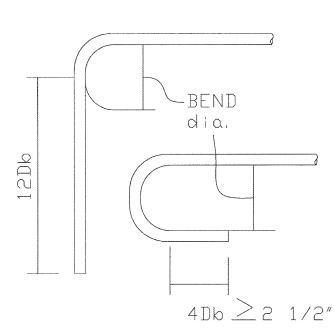
24"

41"

REQUIREMENTS FOR STANDARD HOOKS AND MINIMUM FINISHED INSIDE BEND DIAMETERS FOR REINFORCING BARS ARE ILLUSTRATED BELOW. THE STANDARD HOOK DETAILS FOR STIRRUPS AND TIES APPLY TO NO. 8 AND SMALLER BAR SIZES ONLY.

TABLE 3-1 STANDARD HOOKS FOR PRIMARY REINFORCEMENT

BAR SIZE NO.	MIN. FINISHED BEND DIA. (a)
3 THROUGH 8	6Db
9, 10, 11	8Db
14 AND 18	10Db

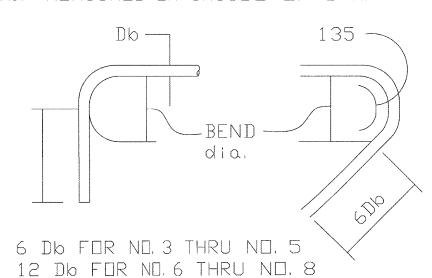


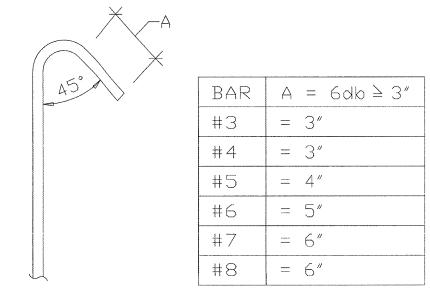
(a) MEASURED ON INSIDE OF BAR.

TABLE 3-2 STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT (NO. 8 OR SMALLER ONLY)

_		
	BAR SIZE NO.	MIN. FINISHED BEND DIA. (a)
	3 THROUGH 5	4 D b
	6 THROUGH 8	6Db

(b) MEASURED ON INSIDE OF BAR.





SEISMIC HOOK DETAIL

NOTE: SEISMIC HOOKS SHALL BE USED FOR ALL HOOPS, STIRRUPS, AND CROSS-TIES IN SEISMIC RESISTING ELEMENTS



CONCRETE WATERPROOFING ADMIX:

P/N DESCRIPTION:

INTEGRAMIX-WP

WATERPROOFING CONCRETE ADMIX, FOR USE IN ABOVE GRADE STRUCTURES ONLY. NON-CAUSTIC FORMULA, WILL NOT CORRODE COPPER, BRASS, BRONZE, OR REBAR.

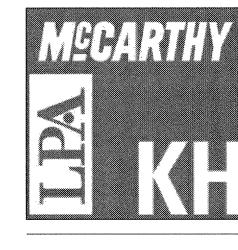
AQUAFIN, Inc., (410) 964-3165

- or -

IPANEX

WATERPROOFING CONCRETE ADMIX, FOR USE IN ABOVE GRADE STRUCTURES ONLY. NON-CAUSTIC FORMULA, WILL NOT CORRODE COPPER, BRASS, BRONZE, OR REBAR.

IPA Systems, Inc., (215) 425-6607



McCarthy Building Companies, Inc 343 Sansome Street, 14th Floor San Francisco, California 94104 P 415 | 364-1339 F 415 397-5999



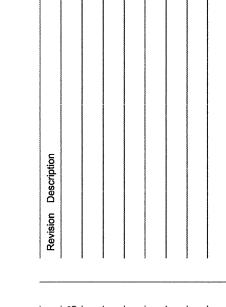


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09 APRIL 2009 Checked by AS SHOWN

FOUNTAINS STRUCTURAL DETAILS & NOTES

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