HEIGHT

4'-1" #5 ● 18" #3 ● 18" TO O.C. O.C.

12'-1" #5 • 18" #6 • 18"

YARIES W SLOPE (12" MAX.)

YERT.

O.C. VERT.

ADD 2" PVC WEEP PIPE PENETRATING

THROUGH EXTERIOR BEAM AT CORNERS AND 6' O.C. ALTERNATE DRAIN MAY BE USED.

NOTE: WEEP REQUIRED ONLY WHEN TOP OF

SLAB IS GREATER THAN 6'-O" FROM FINAL

#34 CONT.

#3¢ VERT. ●

24" O.C. (TYP.).

= CURB HEIGHT

A CURB W/ BRICK LEDGE

LOWERED MASONRY LEDGE

SLAB REINFORCEMENT

6" MAX.

BEAM BOTTOM

REINFORCEMENT

REINFORCE -

DROP IN SLAB UP TO 16'

PER 1/52

24"

24"

CORNER BARS

DETAIL #1

CORNER BARS
I. AT ALL OUTSIDE BEAM CORNERS, PLACE 45 CORNER BAR TOP

5. ALL CORNER BAR LEGS TO BE MINIMUM 500 DIAMETERS (U.N.O.

2. CORNER BARS NOT NEEDED AT INTERIOR/INTERIOR BEAM

REQD

BAR LENGTH

+ 12" (TYP)

PER SECTION I OR SECTION 3

HORIZ. (TYP.) -

O.C.E.W. 2" ROCK

#5 . 18" | 16" SOIL

EXTERIOR BEAM 4'-1' TO 16'-0"

OMIT MASONRY

LEDGE WHERE

#5 CONT.

NOT REQUIRED

O.C.E.M. 4" ROCK

6'-|" #5 ● |8" #4 ● |2" TO O.C. O.C. |2'-O" HORIZ. VERT. #5 ● |8" O.C.E.M.

6'-0" HORIZ.

TO O.C. 16'-0" HORIZ.

## 1EXTERIOR BEAM NOT TO SCALE

I. THE LATEST P.T.I. CRITERIA ALONG WITH THE LATEST A.C.I. CODE HAVE BEEN USED IN ESTABLISHING THE DESIGN REQUIREMENTS FOR THIS FOUNDATION. FOUNDATIONS CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS WILL GENERALLY MEET THE REQUIREMENTS OF 2000 INTERNATIONAL RESIDENTIAL CODE AND STANDARDS OF GOOD

ENGINEERING PRACTICE. 2. THESE PLANS ARE COPYRIGHT MLAW AS OF THE YEAR DATED. 3. ALL DIMENSIONS ARE INTERPRETED FROM AND SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS BY BUILDER AND BE COMPARED WITH ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS

4. DO NOT SCALE PLAN. CONTACT ENGINEER FOR CLARIFICATIONS. 5. ENGINEER'S INSPECTION REQUIRED FOR:

- CONCRETE PRE - POUR SETUP - TENDON STRESSING ENGINEER'S INSPECTION RECOMMENDED FOR:

- CONCRETE PLACEMENT AND MATERIAL TESTING ENGINEER INSPECTIONS TO BE PAID BY THE CLIENT

6. SHOULD CONDITIONS ARISE THAT ARE NOT COVERED BY DETAILS ON THIS PLAN, CONTACT ENGINEER AT ONCE FOR ADDITIONAL INSTRUCTIONS.

CONCRETE:

1. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. SUBMITTAL OF MIX DESIGN REQUIRED.

2. CONCRETE SHALL BE WELL CONSOLIDATED USING PROPER MECHANICAL VIBRATION, ESPECIALLY IN THE VICINITY OF THE TENDON ANCHORAGE. 3. CONDUIT IN SLAB REQUIRED PRIOR TO CONCRETE PLACEMENT. LOCATION TO BE VERIFIED IN FIELD.

4. NO CONDUIT, PIPING OR VENTS LARGER THAN 3" O.D. SHALL RUN IN STRUCTURAL CONCRETE MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS CONDUIT, PIPING AND VENTS TO BE POSITIONED SO AS TO NOT REDUCE SLAB THICKNESS OR BEAM DEPTH.

5. MINIMUM CONCRETE CLEAR COVER (FOR REINFORCING STEEL OR POST-TENSIONING TENDONS SHALL BE.)

IN SLABS:

3/4" ADJACENT TO INTERIOR SLAB SURFACES I I/2" ABOVE SUB-GRADE

IN STIFFENING BEAMS, WALLS AND FOOTINGS:

I I/2" ADJACENT TO EXTERIOR OR INTERIOR SURFACES 3" FROM SURFACES IN CONTACT WITH EARTH

AT PIPE PENETRATION: 4" IF TENDON IS CURVING

2" IF TENDON IS STRAIGHT

TENDON ANCHORS TO HAVE 4" VERTICAL CONCRETE COVER FROM CENTER OF ANCHOR.

I. REINFORCING STEEL TO BE GRADE 60 FOR #4 AND LARGER AND GRADE 40 FOR #3. 2. THE FIRST REBAR IN THE FOUNDATION SLAB SHALL BE A MAXIMUM OF 12"

AND A MINIMUM OF 6" FROM THE OUTSIDE FORM. 3. ALL TENDONS SHALL BE 270K GRADE, 7 WIRE STRAND, 1/2" IN. DIAMETER (UNLESS NOTED OTHERWISE), GREASED AND SHEATHED WITH A CONTINUOUS SHEATHING. TEMPORARY STRESSING LOAD ON 1/2" TENDON SHALL BE 33K. 4. ALL TENDONS SHALL BE A MONOSTRAND UNBONDED TENDON ANCHORAGE UTILIZING A CAST WEDGE PLATE AND A TWO PIECE WEDGE AS MANUFACTURED

BY A P.T.I. APPROVED MANUFACTURER. 5. ALL TENDONS TO BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 14" FROM THE EDGES OF THE FOUNDATION UNLESS NOTED OTHERWISE ON PLANS. 6. PARTIAL STRESSING OF POST TENSIONED TENDONS REQUIRED BETWEEN 24 AND 36 HOURS. PARTIAL STRESSING LOAD SHALL BE 50% FINAL LOAD. FINAL STRESSING TO OCCUR WITHIN 7 DAYS OF CONCRETE PLACEMENT.

CONCRETE CRACK CONTROL:

I. INSTALL CRACK CONTROL JOINTS @ 15'-O" O.C.E.W. IF CRACK CONTROL IS NOT A CONSIDERATION AS DETERMINED BY BOTH THE BUILDER AND THE OWNER, THEN THE JOINTS MAY BE ELIMINATED.

2. CREATE CRACK CONTROL JOINTS BY TOOLING (DO NOT SAWCUT) TO A DEPTH OF ONE THIRD THE SLAB THICKNESS. TOOL THE BASE OF ALL DROPS-IN-SLAB TO FUNCTION AS CONTROL JOINTS.

3. THE JOINTS SHOULD CROSS TILE AREAS AT ARCHITECTURALLY ACCEPTABLE LOCATIONS SUCH AS DOORWAY THRESHOLDS, AND THE BUILDER SHOULD COORDINATE THE JOINT LOCATIONS WITH THE OWNER AND TILE CONTRACTOR.

4. FLOOR TILE INSTALLATION MUST COMPLY WITH CERAMIC TILE INSTITUTE OF AMERICA'S "MASTER GUIDE SPECIFICATION FOR TILE". USE SLIP SHEETS AND/OR ANTI-FRACTURE MEMBRANES IN ACCORDANCE WITH THE TILE MANUFACTURER'S RECOMMENDATIONS, PARTICULARLY WHERE FLOOR TILES CROSS CRACK CONTROL JOINTS AND RANDOM CONCRETE CRACKS. 5. INSTALL VERTICAL EXPANSION JOINTS IN MASONRY AND STUCCO VENEERS AT EACH CONTROL JOINT AND AT APPROXIMATELY 15 FEET ON CENTER.

I. UNDERSLAB FILL MATERIAL TO MEET THE REQUIREMENTS OF

SPECIFICATIONS. 2. FILL ANY SHRINKAGE CRACKS WITH PORTLAND CEMENT PRIOR TO THE PLACEMENT OF FINISHING MATERIALS.

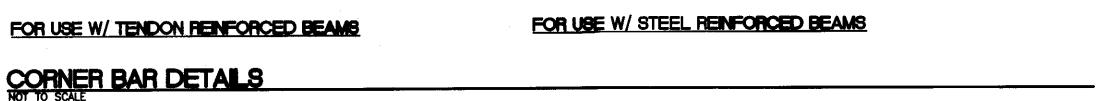
3. ALL DEPTH DIMENSION OF BEAMS ARE MINIMUM UNLESS INTACT ROCK IS ENCOUNTERED ARE LESS DEPTH. INSPECTOR MAY APPROVE BEAMS CONT. ON ROCK TO A MIN, BEAM DEPTH OF 12".

## GENERAL FOUNDATION NOTES

## CORNER BAR DETAILS

AND BOTTOM (SEE DETAIL #1).

INTERSECTIONS (U.N.O. ON PLAN).



REINFORCE

CONSTRUCTION

FINAL GRADE

EXISTING GRADE

#5 CONT. HORIZ.

VARIES W SLOPE

#5 VERT. ●

BAR LENGTH

+ 12" (TYP.)

PER SECTION I

OR SECTION 5

SLAB TENDON

24" O.C. (TYP.).

= CURB HEIGHT

BSTANDARD CURB

REINFORCE PER 2/52

PRESENT AT DROP.)

(NOTE: BEAM MAY NOT BE

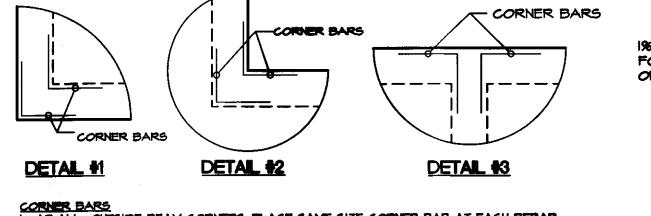
TOP AND

BOTTOM

(TYP.)

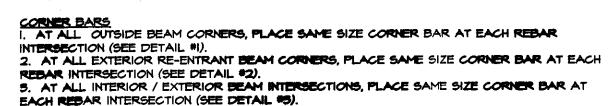
(I2" MAX.)

PER I/S2



FLOW LINE 6" BELOW LOWER SLAB ELEV.

FLOODING, ETC. THIS DRAINAGE DETAIL IS



5. ALL CORNER BAR LEGS TO BE MINIMUM 500 DIAMETER (U.N.O. ON PLAN).

SHEET 2 OF 2

1/2" DRAPED TENDON MASONRY AND HEARTH 2.5 x OFFSET 4 NTERIOR FIREPLACE COFFSET IN SLAB REINFORCE PER OPTIONAL C.J. NONE EXTEND SLAB <del>-</del> ADD 3 - **#5**Φ TENDON THRU CANTILEVER O.C.E.W. **TREAD** NOTE: NO SEOLOGIC STUDY WAS PERFORMED RELATED TO GROUNDWATER FLOW DURING SEASONAL CONSIDERED STANDARD PRACTICE BY INDUSTRY REINFORCE PER AND <u>WILL NOT</u> HANDLE EVERY GROUND WATER SEC. I OR 5 50" MAX. SECTION I OR SITUATION, MLAW CANNOT BE HELD LIABLE FOR THE SECTION 3 6 CANTILEVERED SLAB — SWALE (MINIMUM SWALE (MINIMUM FINISHED SURFACE SLOPE 1%) INCLUDING TOPSOIL INCLUDING TOPSOIL 1% MINIMUM SLOPE FOR REMAINDER 1% MINIMUM SLOPE OF YARD. FOR REMAINDER OF YARD. 10'-0" MAXIMUM 4'-0" MINIMUM MAXIMUM FALL OF PROTECTIVE BACK SLOPE MINIMUM FALL IF PROTECTIVE BACK SLOPE IS 6" IN A 10'-0" MAXIMUM LENGTH OR AS LIMITED BY PROPERTY LINES (5%). 15 10" IN A 4'-0" MINIMUM LENGTH (21%). 4. CORNER BARS NOT NEEDED AT INTERIOR / INTERIOR BEAM INTERSECTIONS (U.N.O. ON PLAN). THUS FOR A 5'-O" SIDE YARD, MINIMUM FALL IS 5" IN THE 5'-O" LENGTH (5%). THESE PROTECTIVE BACKSLOPE DETAILS ARE TO BE USED ONLY IF DRAINAGE DESIGN IS NOT PERFORMED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER. PROTECTIVE BACK SLOPES <u>maximum</u> MOT TO SCALE FOUNDATION DETAILS

7'-0" MAX.

CABLE BEAM

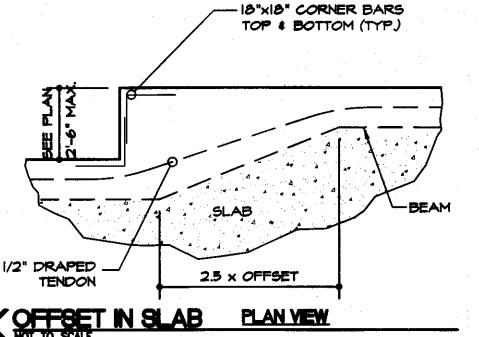
TYPICAL BEAM (ELEVATION VIEW)

-1/2" EXPANSION 1'-0" i \*5 CONT. ABOVE AND BEHIND ANCHOR PER 1/52 WIDTH 6

1/2" DRAPED TENDON

SLAB REINFORCEMENT

2 INTERIOR BEAM



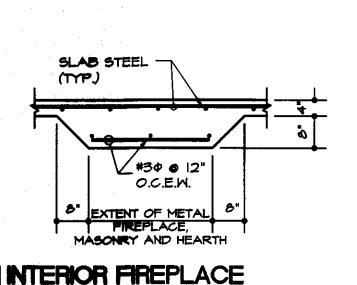
OMIT MASONRY

REQUIRED

LEDGE WHERE NOT

**●** 48" O.C.

-2 - #4 BOT.



TYPICAL SPACING

STEEL BEAM

BOTTOM BAR-

STIRRUP (TYP.)

STEEL BEAM

TOP BAR-

- 1/2" TENDON WITH LIVE END

POSITIONED

AS SHOWN

1/2 TYPICAL

FORMING FILL BEHIND DROP IN SLAB OR DEEP BEAM OVER 4 FEET HIGH TO BE RETAINED BY 16" WIDE FILL BAGS OF MOVEN PLASTIC AND FILLED WITH CRUSHED STONE OR WASHED GRAVEL. FOR HEIGHTS OVER 8 FEET, USE TWO ROWS OF BASS FULL HEIGHT.

SLAB REINFORCEMENT

- SEE PLAN FOR SIZE

AND REINFORCEMENT

6 MIL. POLY

3 EXTERIOR STEEL BEAM

(TYPICAL)

#5 ● 12" O.C. HORIZ. O.C. VERT. 4'-i" #5 ● I2" #4 ø 12" O.C. HORIZ. 8'-0' YERT. 8'-1" TO 12" MIN. OR #4 e |2" **#4 ● 8**" O.C. HORIZ. O.C. VERT. DESIGN 12'-0' MIDTH Miradrain *or approved Egual* — PROVIDE DRAINAGE CONTINUITY W/ 3" PERF. PVC PIPE TO DAYLIGHT @ 0.5% SLOPE. KEEP PIPE \_\_\_\_

5 DROP IN SLAB 1'-7" TO 12'-0"

PERFORMANCE OF THIS DRAINAGE SYSTEM.

DERECHO

L RAY LYNC

JOB No: 918000167.800E DATE: 11-19-09 DRAWN: JJK CHECK: **REVISIONS:** ∧ 1-21-10 / A \ REVISED ARCH'LS.

B 1-22-10 REVISED DIMENSIONS

SOIL DATA Source: MLA LABS Date: 11-2009 Design P.I.: 28 PTI SOIL PARAMETERS Center Edge Em: **5.0 3.1** 

Ym: **1.7 0.6** 

