



Issues and Revisions

Mark	Date	Description
-	09-04-15	DESIGN DEVELOPMENT REVIEW
-	10-01-15	ISSUED FOR SITE COORDINATION
-	03-25-16	CONSTRUCTION DOCUMENTS

CONCRETE REINFORCING

1. ALL REINFORCING STEEL TO BE ASTM-A615 GRADE 60, DETAILED AND FABRICATED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE" (ACI-315 LATEST).
2. REINFORCEMENT TO HAVE MIN. CONCRETE COVER AS FOLLOWS:
 - A. CONCRETE DEPOSITED AGAINST GROUND, INCLUDING FOOTINGS: 3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER, INCLUDING WALLS, PIERS, WALLS, COLUMNS, AND EXTERIOR SLABS: 2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - I. SLABS, WALLS, AND JOISTS: 3/4"
 - II. BEAMS AND COLUMNS, TIES, STRIPPERS, REINFORCERS: 1 1/2"
3. PROVIDE ADEQUATE KEYS AND DOWELS AT ALL WALL INTERSECTIONS AND CONSTRUCTION JOINTS.
4. LAP ALL REINFORCING AT 3 BAR DIAMETERS AT SPLICES, AND 12" MIN. AT CORNERS UNLESS SHOWN OTHERWISE.
5. AT ALL OPENINGS IN STRUCTURAL SLABS, PROVIDE ONE HALF THE NUMBER OF INTERRUPTED BARS PLACED ON EACH SIDE OF THE OPENING AND STAGGERED WITH OTHER SLAB BARS. PROVIDE #4 x 5'-0" LONG DIAGONAL BAR TOP AND BOTTOM AT EACH CORNER OF OPENING, UNLESS SHOWN OTHERWISE.
6. PROVIDE DOWELS IN WALLS AND COLUMN FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO REINFORCING STEEL EXTENDING 24 BAR DIA. INTO FOOTING AND INTO WALL OR COLUMN UNLESS SHOWN OTHERWISE. LOWER END OF DOWELS SHALL HAVE 90 DEGREE BEND WITH 4" MIN. HORIZONTAL DIMENSION AND ALL DOWELS SHALL BE SET IN PLACE BEFORE CONCRETE IS PLACED.
7. DISCONTINUOUS ENDS OF ALL TOP REINFORCING BARS TO BE HOOKED.
8. ALL CONCRETE WALLS ON LEDGE TO HAVE #5 DOWELS x 3'-0" LONG, GROUDED 1'-0" INTO LEDGE AND SPACED AT 3'-0" O.C.
9. ALL CONCRETE PIERS ON LEDGE TO HAVE (2) #5 DOWELS x 3'-0" LONG, GROUDED 1'-0" INTO LEDGE.
10. ALL 4" THICK CONCRETE SLABS ON FILL TO BE REINFORCED WITH FIBER REINFORCING, UNLESS SHOWN OTHERWISE.
11. ALL CONCRETE SLABS, PADS, BEAMS AND PIERS SHALL HAVE REINFORCEMENT THAT WILL HAVE A MIN. RATIO OF REINFORCEMENT AREA TO GROSS CONCRETE AREA OF 0.0033 UNLESS SHOWN OTHERWISE.