SOIL BEARING

1. WALL AND COLUMN FOOTINGS DESIGNED FOR AN ASSUMED SOIL BEARING OF ___5000___ PSF.
2. IF ADEQUATE SOIL BEARING IS NOT ENCOUNTERED AT THE INDICATED BOTTOM OF FOOTING LOCATION, CONTRACTOR IS TO REPORT TO THE ARCHITECT BEFORE PROCEEDING WITH THAT PART OF THE WORK.
3. ALL EXCAVATIONS FOR THE FOUNDATION SHALL BE APPROVED BY THE ARCHITECT BEFORE PLACING ANY CONCRETE FOOTING.

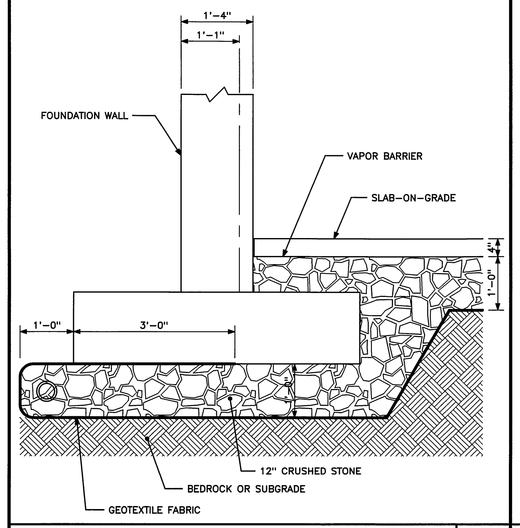
CONCRETE

1. STRENGTH OF CONCRETE AT 28 DAYS TO BE 3000 PSI; EXCEPT FOR: SLABS, BEAMS AND COLUMNS TO BE ___3000___ PSI AND EXTERIOR SLABS TO BE___4000___PSI.
2. ALL EXTERIOR FOOTINGS TO BE MIN. 4'-6" BELOW FINISH GRADE. UNLESS BEARING ON LEDGE, WHERE 2'-0" MIN. COVER REQUIRED.
3. TOP OF ALL FOOTINGS TO BE MIN. 8" BELOW BOTTOM OF FLOOR SLAB UNLESS INDICATED OTHERWISE.
4. BOTTOM OF ALL FOOTINGS TO BE 2'-0" MIN. BELOW EXISTING GRADE.
5. BOTTOM OF ALL FOOTINGS TO BE ON ADEQUATE SOIL BEARING.
6. ALL SLABS ON FILL TO BE 4" THICK UNLESS SHOWN OTHERWISE.
7. SLABS AND BEAMS UNDER CONCRETE WALLS SHALL BE ADEQUATELY SHORED UNTIL WALLS ARE SET.
8. IF BASEMENT AND FIRST FLOOR SLABS ARE NOT POURED BEFORE BACKFILLING, FOUNDATION WALLS TO BE ADEQUATELY BRACED BEFORE BACKFILLING AND UNTIL ABOVE SLABS ARE PLACED AND SET.
9. SEE SPECIFICATIONS FOR SPECIAL REQUIREMENTS FOR ARCHITECTURAL EXPOSED CONCRETE ANCHORING OF MASONRY TO CONCRETE WALLS AND COLUMNS AND CHAMFER OF EXTERNAL CORNERS OF CONCRETE BEAMS, GIRDERS, COLUMNS, ETC.
10. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SIZE AND LOCATION OF DOOR FRAMES, THRESHOLDS, ETC., AND CONCRETE PADS, PIERS, PIPE SLEEVES, ETC.
11. ALL WOOD NAILERS ON CONCRETE, OR MASONRY, TO BE ANCHORED WITH 1/2" DIA. ANCHOR BOLTS SPACED AT 2'-8" OC., AND EXTENDED 1'-0" INTO CONCRETE OR MASONRY.
12. CONCRETE FILL FOR BEAM LINTEL BLOCKS, BOND BEAMS AND CONCRETE BLOCKS USED AS SOLID MASONRY UNITS TO BE CONCRETE TESTING 3,000 PSI AT 28 DAYS.

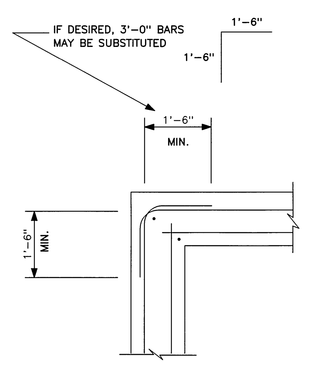
CONCRETE REINFORCING

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 WALKS, 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, STIRRUPS, REINFORCEMENT------- 1-1/2"
3. TYPICAL WALL REINFORCEMENT UNLESS OTHERWISE INDICATED:
   6" THROUGH 9" WALL – #4 HORIZ. @ 9" AND #4 VERT. @ 18" – CTR.
   10" THROUGH 13" WALL – #4 HORIZ. @ 12" AND #4 VERT. @ 18" – E.F.
   14" THROUGH 16" WALL – #4 HORIZ. @ 10" AND #4 VERT. @ 18" – E.F.
4. PROVIDE ADEQUATE KEYS AND DOWELS AT ALL WALL INTERSECTIONS AND CONSTRUCTION JOINTS.
5. LAP ALL REINFORCEMENT 36 BAR DIAMETERS @ SPLICES, AND 12" MIN. AT CORNERS UNLESS SHOWN OTHERWISE.
6. IN ADDITION TO TYPICAL WALL REINFORCING, PROVIDE 2 – #5 DIAGONAL RODS X 5'-0" LONG AT CORNERS AND STEPS OF OPENINGS, AND 2 – #5 HORIZ. & VERT. RODS EXTENDED 2'-0" BEYOND.
7. 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 OTHERWISE SHOWN.
8. PROVIDE DOWELS IN WALLS AND COLUMN FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL EXTENDING 24 BAR DIA. INTO FOOTING AND INTO WALL OR COLUMN UNLESS SHOWN OTHERWISE. LOWER END OF DOWELS SHALL HAVE 90 BEND WITH 4" MIN. HORIZONTAL DIMENSION AND ALL DOWELS SHALL BE SET IN PLACE BEFORE CONCRETE IS PLACED.
9. DISCONTINUOUS ENDS OF ALL TOP REINFORCING BARS TO BE HOOKED.
10. ALL CONCRETE WALLS ON LEDGE TO HAVE #8 DOWELS X 3'-0" LONG, GROUTED 1'-6" INTO LEDGE AND SPACED @ 3'-0"-+ o.c.
11. ALL CONCRETE PIERS ON LEDGE TO HAVE 2 – #8 DOWELS X 3'-0" LONG, GROUTED 1'-6" INTO LEDGE.
12. ALL 4" THICK CONCRETE SLABS ON FILL TO BE REINFORCED WITH FIBER REINFORCING, UNLESS SHOWN OTHERWISE.
13. 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 OTHERWISE INDICATED.
14. WHEN USING STEEL FORMS, SUCH AS WHEELING TENSILFORM 40, OR EQUAL, WELDED TO TOP OF STEEL FLOOR JOISTS, BEAMS OR ANGLES, USE MINIMUM 3" CONCRETE FLOOR SLABS WITH MINIMUM 6" X 6" W1.4 X W1.4 W.W.F. REINFORCING. THE WIRE FABRIC SHOULD BE LOCATED AT MID-DEPTH OF MIN. 3" SLAB, USING CHAIRS AND SUPPORT BARS AS REQUIRED.

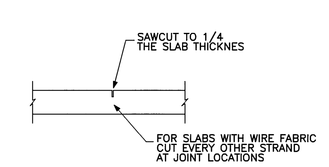
GENERAL NOTES — NO SCALE — REF: S10.1 — C6



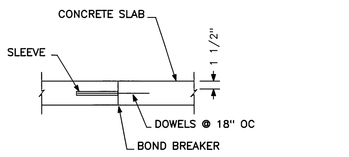
SECTION — 3/4" = 1'-0" — 0 1/2' 1' 2' — REF: S10.1 — D4



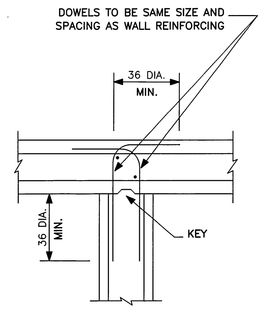
TYPICAL CORNER REINFORCING DETAIL — NO SCALE — REF: S10.1 — D3



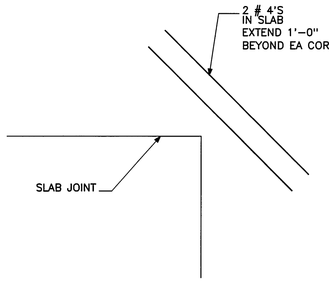
TYPICAL SLAB-ON-GRADE CONTROL JOINT DETAIL — NO SCALE — REF: S10.1 — D2



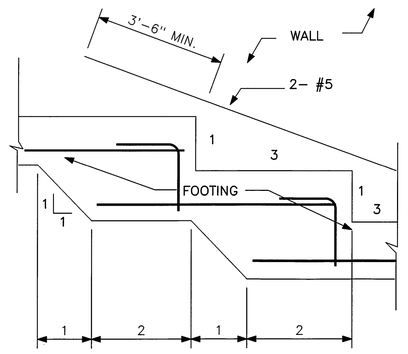
TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL — NO SCALE — REF: S10.1 — D1



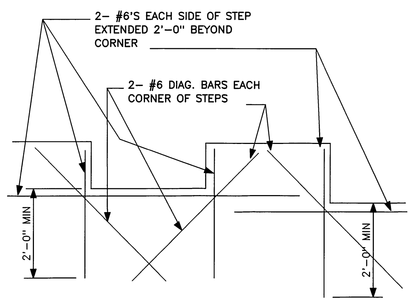
TYPICAL WALL INTERSECTION REINFORCING DETAIL — NO SCALE — REF: S10.1 — C5



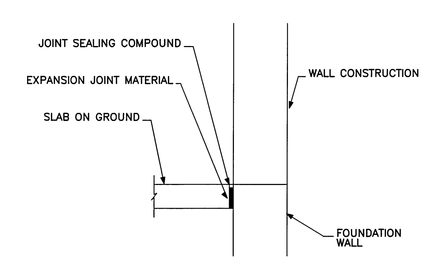
REENTRANT SLAB JOINT DETAIL — NO SCALE — REF: S10.1 — C4



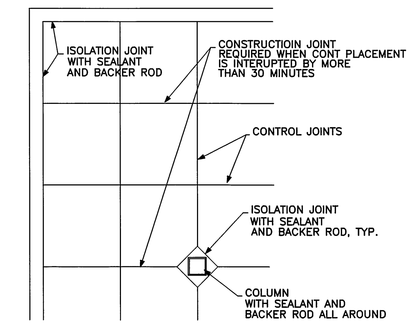
TYPICAL STEPPED FOOTING DETAIL — NO SCALE — REF: S10.1 — C3



TYPICAL REINFORCING AT STEPS IN CONCRETE WALL — NO SCALE — REF: S10.1 — C2

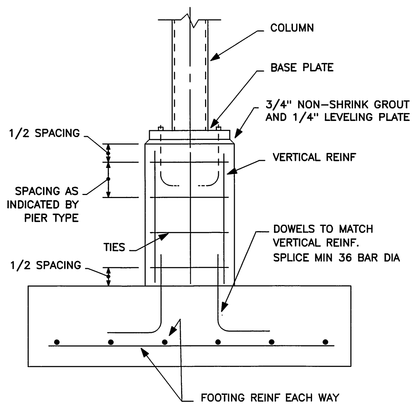


TYPICAL SLAB-ON-GRADE ISOLATION/EXPANSION JOINT DETAIL — NO SCALE — REF: S10.1 — C1

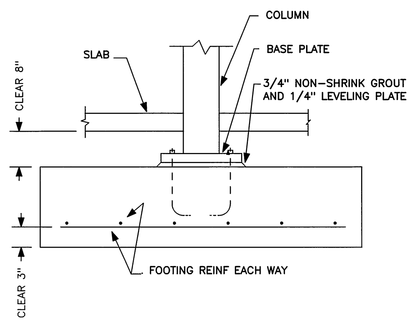


JOINT SPACING:
4" SLABS: MAX SPACING 8', (SPACE EQUALY BETWEEN COL BAYS)
6" SLABS: MAX SPACING 10' (SPACE EQUALY BETWEEN COL BAYS)
NOTES:
1. PROVIDE CONTROL OR CONSTRUCTION JOINTS AROUND ALL SLAB DEPRESSIONS AND PITS AT THE EXTENT OF THE PERIMETER REINFORCING.
2. SEAL ALL JOINTS AND SLAB PENETRATIONS. SEE ARCH'L FOR DETAILS.
3. SEE SPEC. 03300, SECTION 3.05: JOINTS, FOR FURTHER INFORMATION
4. NO CONTROL JOINTS SHALL BE CUT IN THE GYMNASIUM SLAB

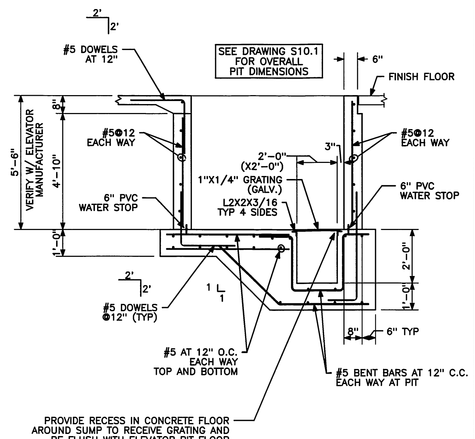
TYPICAL SLAB JOINT LAYOUT — NO SCALE — REF: S10.1 — B6



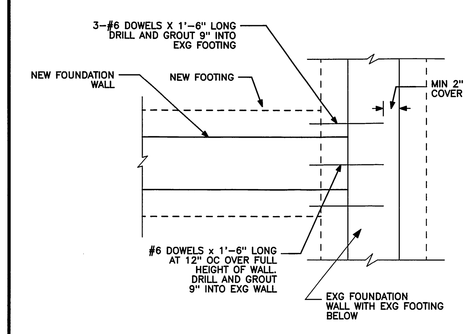
TYPICAL PIER AND FOOTING DETAIL — NO SCALE — REF: S10.1 — B5



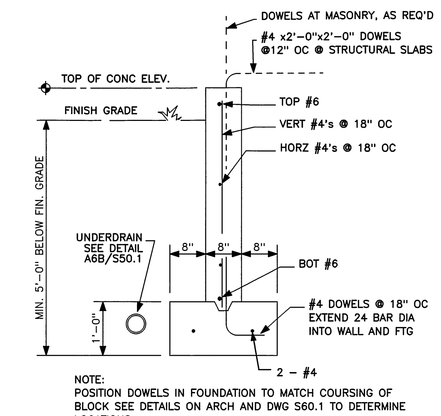
TYPICAL INTERIOR COLUMN FOOTING DETAIL — NO SCALE — REF: S10.1 — B4



SECTION AT ELEVATOR PIT — NO SCALE — REF: S10.1 — B3

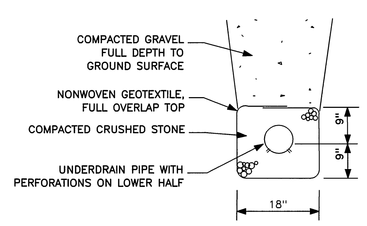


TYPICAL ATTACHMENT OF NEW FOUNDATION TO EXISTING — NO SCALE — REF: S10.1 — B2

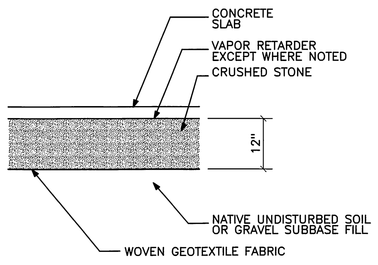


NOTE:
POSITION DOWELS IN FOUNDATION TO MATCH COURSING OF BLOCK SEE DETAILS ON ARCH AND DWG S60.1 TO DETERMINE LOCATIONS.

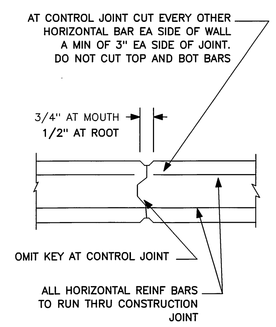
TYPICAL 8" FOUNDATION WALL — NO SCALE — REF: S10.1 — B1



UNDERDRAIN DETAIL — NO SCALE — REF: S10.1 — A6



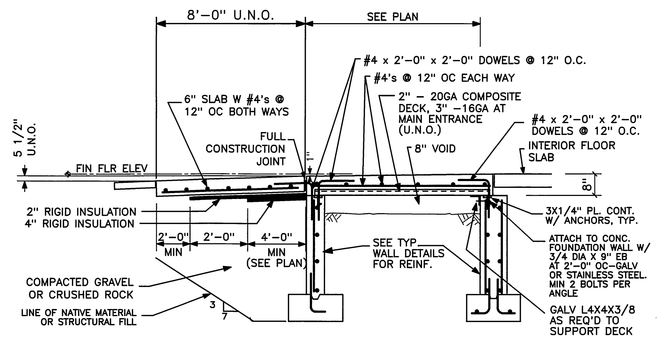
TYPICAL SLAB/GRAVEL BASE DETAIL — NO SCALE — REF: S10.1 — A5



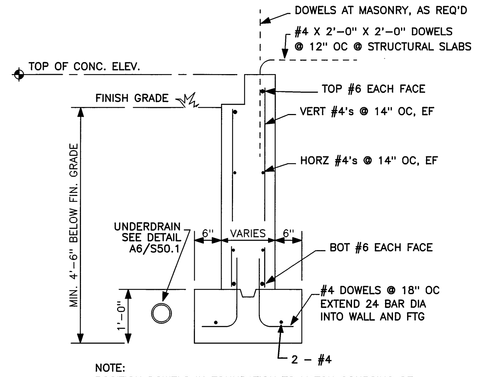
PROVIDE CONTROL JOINTS @ 150'-0" O.C., MAX. AND 12'-0" MIN. FROM COLUMN.

TYPICAL WALL CONTROL/CONSTRUCTION JOINT DETAIL — NO SCALE — REF: S10.1 — A4

NOTES:
1. FROST TRANSITION SALB WIDTH TO MATCH ENTRANCE SLAB (UNO).
2. AT ENTRANCES WITH PAVING MATERIAL, LOWER ELEVATION OF STRUCTURAL SLAB AND TRANSITION SLAB TO ACCOMODATE PAVING MATERIAL ABOVE.
3. ALL DECK EDGES MUST BE SUPPORTED PRIOR TO SLAB PLACEMENT



TYPICAL STRUCTURAL SLAB ENTRANCE AND FROST TRANSITION DETAIL — NO SCALE — REF: S10.1 — A2



NOTE:
POSITION DOWELS IN FOUNDATION TO MATCH COURSING OF BLOCK SEE DETAILS ON ARCH AND DWG S60.1 TO DETERMINE LOCATIONS.

TYPICAL 12"–18" FOUNDATION WALL — NO SCALE — REF: S10.1 — A1

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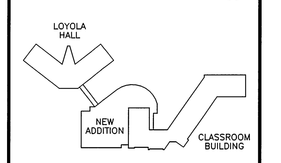
Project Title

CHEVERUS HIGH SCHOOL PHASE 3-ADDITIONS & RENOVATIONS

PORTLAND, MAINE

HA Project No. 02103

Key Plan



Mark	Date	Description
–	05-28-04	ISSUED FOR BID
–	05-17-04	OWNER REVIEW
–	02-27-04	DD REVIEW

Issue Dates

Drawing Status

Drawing Title

FOUNDATION NOTES AND DETAILS

PA / PE: BKB — Drawn By: GPC

Drawing Number

S50.1