GENERAL NOTES

EXCAVATION AND BACKFILL

REMOVE ALL BLACK LOAM AND FILL ENCOUNTERED WITHIN THE AREA TO BE OCCUPIED BY NEW CONSTRUCTION, BEFORE ANY OTHER BUILDING OPERATIONS ARE STARTED. NONE OF THIS MATERIAL OR OTHER EXCAVATED ON-SITE SOILS, SHALL BE USED FOR FILL WITHIN OR ADJACENT TO THE BUILDING.

UNLESS OTHERWISE NOTED, THE SOILS AT THE FOOTING ELEVATION SHALL BE EXCAVATED TO A DEPTH OF 3 FEET BENEATH THE FOOTING ELEVATION AND TO A WIDTH OF 2 FEET OUTSIDE THE FOOTING LIMITS AND THE AREA BACKFILLED WITH A WELL GRADED GRANULAR MATERIAL.

PRIOR TO PLACING SLABS ON GRADE, AND AFTER REMOVAL OF SILTY LOAM, THE AREA SHALL BE THOROUGHLY COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY AND THEN BACKFILLED WITH CLEAN GRANULAR MATERIAL FOR COMPACTION.

COMPACTED FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6" IN COMPACTED DEPTH USING A VIBRATORY TYPE COMPACTOR TO A DENSITY OF AT LEAST 95% OF THE STANDARD PROCTOR DENSITY.

ALL NECESSARY CHANGES IN ELEVATION OF WALL FOOTINGS TO BE MADE IN STEPS NOT MORE THAN 2'-0" HIGH AND AT LEAST 4'-0" APART, EXCEPT AS OTHERWISE DETAILED. SLOPE BOTTOM BARS IN WALLS TO FOLLOW STEPS IN FOOTING.

ALL SLABS ON FILL SHALL BE 5" THICK WITH 6"×6"-#6×#6 W.W.F., UNLESS OTHERWISE NOTED. LAP MESH 8" AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON THE DRAWINGS. PLACE MESH 2" FROM TOP OF SLAB. THE ABOVE INCLUDES ALL TERRACE, PLATFORM, AND STAIR SLABS DIRECTLY ADJACENT TO THE BUILDING AND WHICH SHALL BE DOWELED TO BUILDING WALLS WITH #4×4'-0" MIN. DOWELS AT 12" o.c.

MAXIMUM ALLOWABLE SOIL PRESSURE IS ASSUMED TO BE 3,000 lbs. PER SQ. FT. ON COMPACTED FILL.

CONCRETE AND FORMWORK

ALL CONCRETE FOR WALLS, FOOTINGS, FRAMED SLABS, AND SLABS ON FILL SHALL TEST 3,000 lbs. PER SQ. IN. AT 28 DAYS. SEE SPECIFICATIONS FOR ALL OTHER REQUIREMENTS.

FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN THE COMPLETED BUILDING SHALL BE CONSTRUCTED FROM A SUITABLE PLASTIC SURFACED PLYWOOD WHICH WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE.

GENERAL CONTRACTOR SHALL CHECK WITH ARCH., MECH., AND ELECT. DRAWINGS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, SLAB DEPRESSIONS, AND OTHER ITEMS RELATED TO CONCRETE WORK, AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR PROPER LOCATION, BEFORE POURING CONCRETE.

AT OPENINGS IN SLABS OR WALLS, PROVIDE 2-#6 BARS EACH 6'-0" LONGER THAN WIDTH OF OPENING ON EACH OF 4 SIDES OF OPENING.

PITCH CONCRETE SLABS, WHERE REQUIRED, TO FLOOR DRAINS SHOWN ON MECHANICAL DRAWINGS.

CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:

FOOTINGS.....3" CLEAR, BOTTOM AND SIDES
WALLS.......2" CLEAR, OUTSIDE FACE
1½" CLEAR, INSIDE FACE
SLABS........1" CLEAR

REINFORCING STEEL

GENERAL CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE IN PLACE COST OF TON OF REINFORCING STEEL IN ADDITION TO ALL OTHER STEEL SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS. THE EXTRA STEEL SHALL BE INSTALLED IN THE BUILDING IN SUCH SIZES AND FORM AS THE ARCHITECT MAY DIRECT, WITHOUT ADDITIONAL COST TO THE OWNER. ALL UNUSED PORTIONS SHALL BE A CREDIT TO THE OWNER.

ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, INTERMEDIATE GRADE, CONFORMING TO ASTM A-15.

ALL BARS #3 AND LARGER SHALL BE DEFORMED ACCORDING TO ASTM A-305. ALL BAR DETAILING, AND ACCESSORIES TO BE FURNISHED, SHALL CONFORM TO TYPICAL DETAILS IN THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315-65)," EXCEPT AS OTHERWISE SHOWN, NOTED, OR SPECIFIED.

ALL CONTINUOUS HORIZONTAL OR VERTICAL BARS IN FOOTINGS, FOUNDATION WALLS, SLABS, AND OTHER CONCRETE SHALL BE LAP SPLICED, WHERE NECESSARY OR DESIRABLE, BY WIRING TOGETHER IN CONTACT. LENGTH OF ALL LAPS SHALL BE 24 BAR DIA. OR 2'-0" MIN., WHICHEVER IS GREATER. FOR CONTINUOUS REINFORCING IN SLABS, LAP TOP BARS AT CENTER OF SPAN AND BOTTOM BARS AT SUPPORT.

ALL CONCRETE WALLS, EXCEPT WHERE OTHERWISE SHOWN, SHALL BE REINFORCED WITH #4 @ 12" o.c. EACH WAY, INSIDE FACE, AND WITH 2-#6 CONT. HORIZ. AT TOP AND 2-#6 CONT. HORIZ. AT BOTTOM.

PROVIDE #5 SUPPORT BARS CONT. AT 4'-0" o.c. FOR ALL STRAIGHT TOP STEEL IN CONCRETE SLABS. SUPPORT BARS SHALL BE ON HIGH CHAIRS AT 4'-0" o.c.

STRUCTURAL STEEL

STRUCTURAL STEEL CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE ERECTED COST OF TWO TONS OF STRUCTURAL STEEL IN ADDITION TO ALL OTHER STEEL SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS. THIS EXTRA STEEL SHALL BE INSTALLED IN THE BUILDING IN SUCH SIZES AND FORMS AS THE ARCHITECT MAY DIRECT, WITHOUT ADDITIONAL COST TO THE OWNER. ANY UNUSED PORTION SHALL BE A CREDIT TO THE OWNER.

FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," DATED APRIL, 1963.

ALL EXPOSED STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL," DATED AUGUST, 1960.

ALL STRUCTURAL STEEL SHALL MEET REQUIREMENTS OF ASTM A-36

BEAM CONNECTIONS SHALL BE STANDARD FRAMED CONNECTIONS, THE HEAVIEST OF THE SERIES, UNLESS OTHERWISE INDICATED. SHOP CONNECTIONS MAY BE RIVETED OR WELDED; FIELD CONNECTIONS SHALL BE BOLTED OR WELDED.

ALL UNFINISHED BOLTS SHALL BE 3/4" DIA., EXCEPT AS OTERWISE NOTED. PROVIDE "ANCO" NUTS.

ALL CONNECTIONS WHICH WILL BE EXPOSED TO VIEW IN THE COMPLETED BUILDING SHALL BE WELDED, WITH CONTINUOUS WELDS, UNLESS OTHERWISE INDICATED. REMOVAL OF ERECTION BOLTS AND FILLING OF HOLES WITH WELD WILL BE REQUIRED. WHERE NOT EXPOSED, SHOP CONNECTIONS MAY BE RIVETED OR WELDED; FIELD CONNECTIONS SHALL BE BOLTED OR WELDED.

ALL WELDED CONNECTIONS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO AISC STD. RIVETED CONNECTION FOR THE SAME SIZE BEAM. ALL WELDS FOR COLUMN CAP AND BASE PLATES SHALL BE CONTINUOUS 1/4" FILLET WELDS.

ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS "CODE FOR ARC & GAS WELDING IN BUILDING CONSTRUCTION.

PROVIDE 3/4" MIN. THICK CAP PLATES FOR ALL STEEL COLUMNS WHERE REQUIRED. PLATES TO BE SAME WIDTH AS BEAM FLANGE AND AT LEAST 1'-0" LONG. PROVIDE 1/2" THICK SETTING PLATES, SAME SIZE AS BASE PLATES, UNDER ALL STEEL COLUMN BASE PLATES.

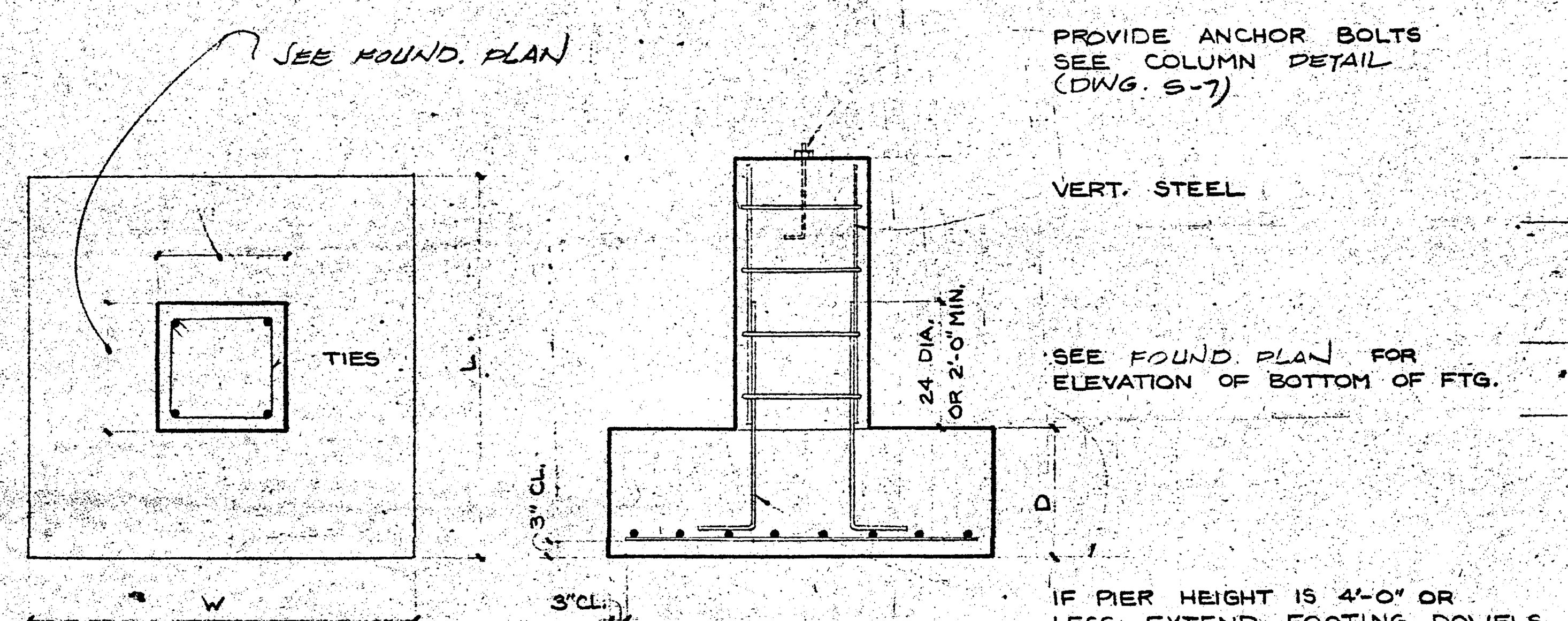
PROVIDE 5/8" MIN. DIA. HOLES AT 2'-0" o.c. IN STEEL WHEREVER REQUIRED FOR ATTACHMENT OF WOOD BLOCKING.

PROVIDE ALL STRUCTURAL STEEL LINTELS, SHELF ANGLES, AND ALL OTHER ROLLED SHAPES SHOWN ON ARCH. DRAWINGS. ALSO PROVIDE LOOSE ANGLE LINTELS FOR ALL MASONRY OPENINGS WHERE REQUIRED; ONE ANGLE FOR EACH 4" THICKNESS OF WALL. FOR OPENINGS LESS THAN 5'-0" WIDE, ANGLES SHALL BE 4"×3½"×5/16" WITH 6" BEARING EACH END; AND FOR OPENINGS 5'-0" AND WIDER, ANGLES SHALL BE 5"×3½"×3/8" WITH 8" BEARING EACH END. PROVIDE ST4WF8.5 WITH 8" BEARING EACH END FOR ALL 6" CONCRETE BLOCK WALL OPENINGS WIDER THAN 3'-4".

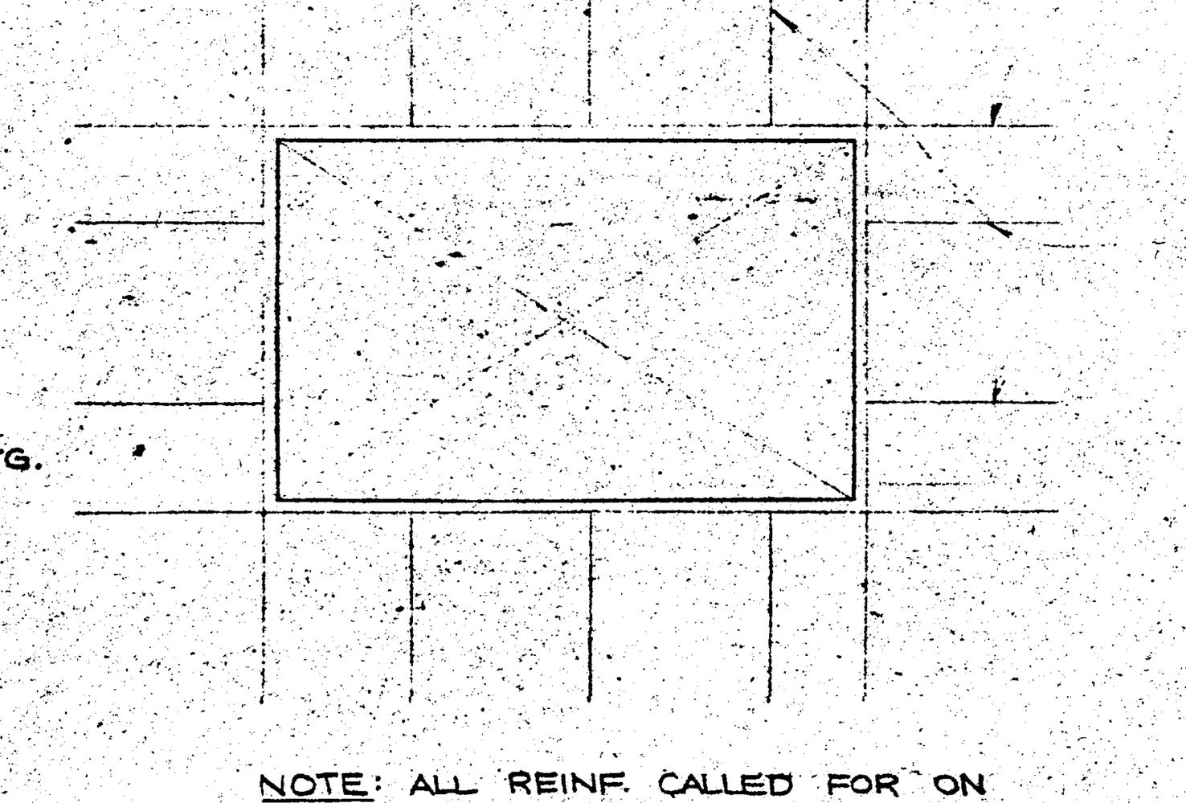
ALL EXTERIOR LINTELS AND SHELF ANGLES SHALL BE GALVANIZED AFTER FABRICATION.

FRAMING PLANS AND DETAILS ARE NOT INTENDED TO COVER ALL STEEL REQUIRED FOR A COMPLETE JOB. EXAMINE ALL ARCHITECTURAL DETAILS CAREFULLY. ALL ROLLED STEEL ANGLES AND OTHER SHAPES SHOWN ON SUCH DETAILS ARE NOT SPECIFICALLY NOTED OR SPECIFIED TO BE FURNISHED AS STRUCTURAL STEEL, EVEN THOUGH NOT SHOWN ON STRUCTURAL DRAWINGS.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL, AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

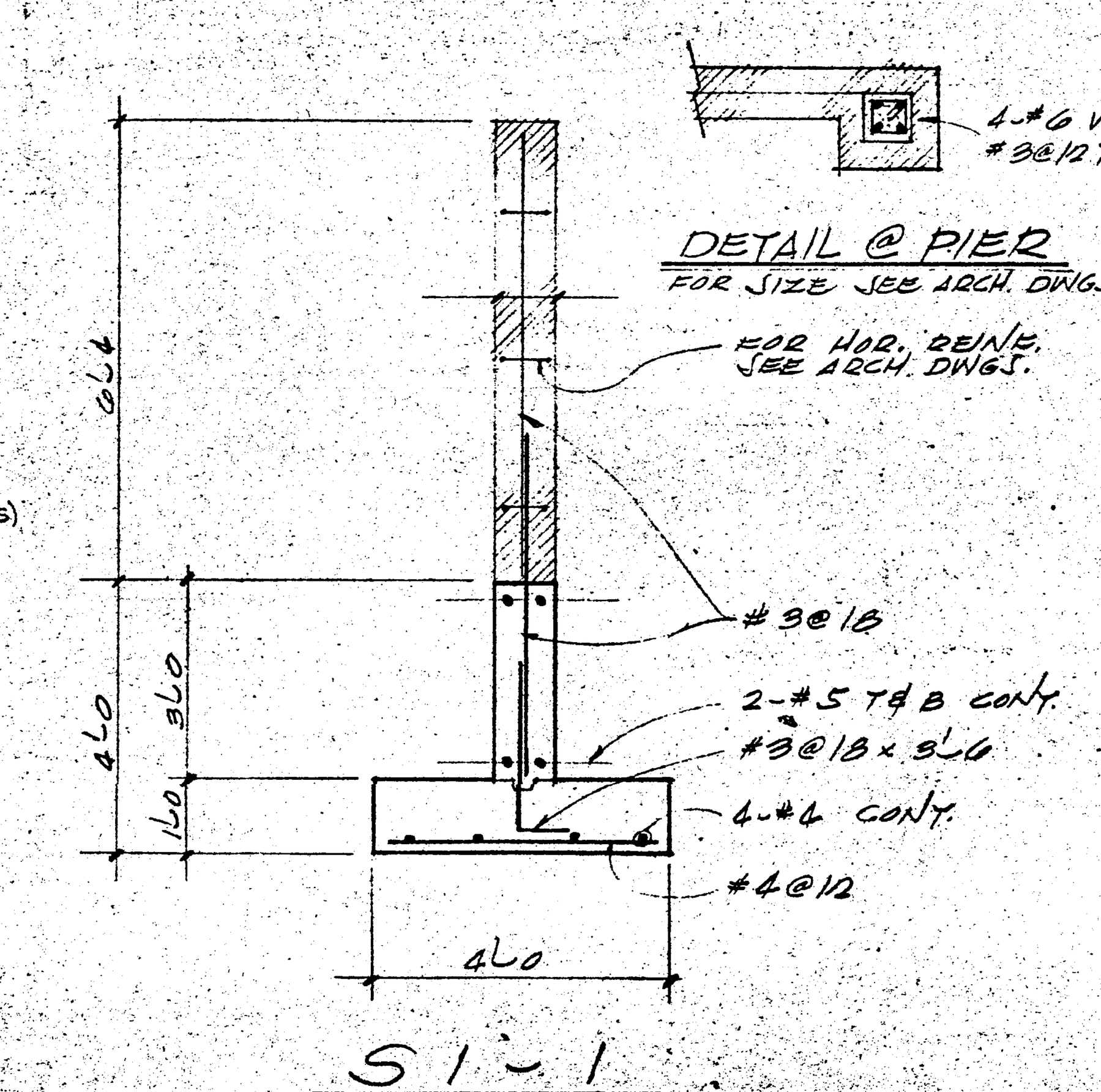


TYPICAL COLUMN FOOTING DETAIL
FOR FOOTING SCHEDULE SEE DRWG. S-3.



NOTE: ALL REINF. CALLED FOR ON PLANS, SECTION, AND SCHEDULES SHALL BE PLACED UNINTERRUPTED ON EACH SIDE OF OPENING.

TYPICAL OPENINGS IN WALLS AND SLABS



S1-1
(FOR ALTERNATE PROPOSAL)

STEEL JOISTS

ALL STEEL OPEN WEB JOISTS, INCLUDING BRIDGING AND ANCHORAGE SHALL BE FABRICATED & ERECTED IN ACCORDANCE WITH THE CURRENT ISSUE OF THE "STEEL JOIST INSTITUTE" FOR "J SERIES" & "LA SERIES" JOISTS.

PROVIDE JOIST OUTRIGGERS AS DETAILED ON DRAWINGS. OUTRIGGERS SHALL BE FABRICATED BY JOIST MANUFACTURER AS PART OF JOIST.

HANGERS SUPPORTING CEILING & EQUIPMENT HUNG FROM JOISTS SHALL BE SUPPORTED AT PANEL POINTS ONLY.

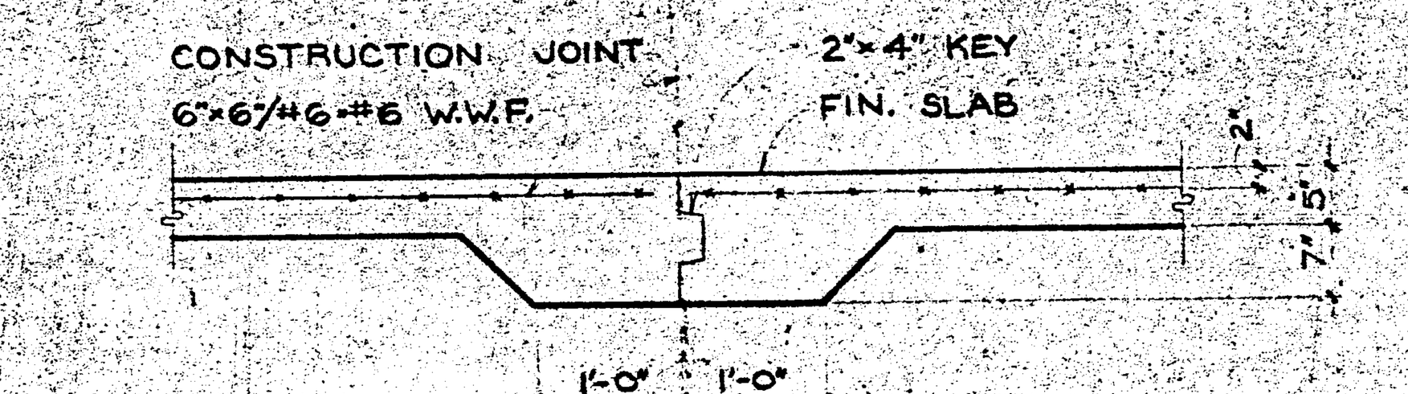
ROOF DECKING

ALL ROOF AREAS SHALL BE COVERED WITH 1½" METAL DECK. METAL DECK SHALL BE NARROW-RIBBED 20-GAGE WITH A MINIMUM SECTION MODULUS OF .145 IN.³ WELD DECK TO EACH BAR JOIST, BEAM OR PLATE IN PASSING WITH 3/4" Ø FILLET WELD. WELD END & SIDE LAPS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

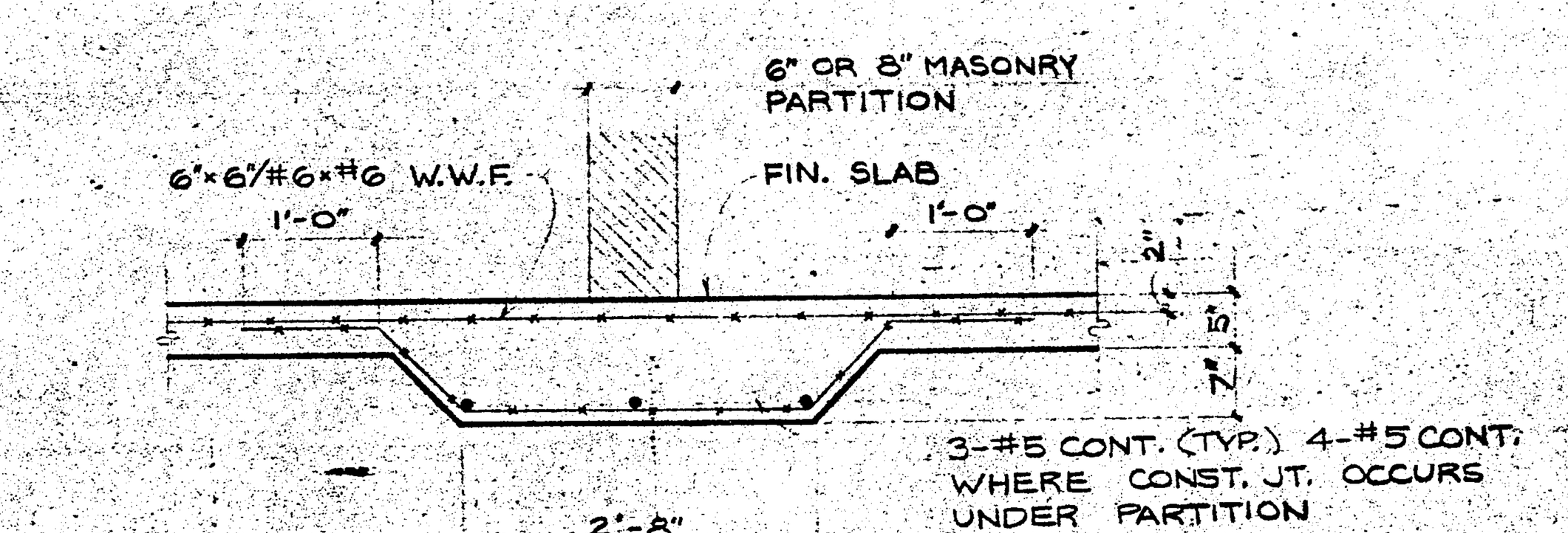
DECK SHALL BE OF SUFFICIENT LENGTH TO COVER 3 SPANS MINIMUM.

ALL ROOF AREAS ARE DESIGNED FOR A SUPERIMPOSED LIVE LOAD OF 30 LBS. PER SQ. FT.

NOTE: FLOORS SHALL BE DIVIDED INTO BLOCKS NOT MORE THAN 800 SQ. FT. EACH. POUR BLOCKS ALTERNATELY SO THAT NO TWO ADJOINING BLOCKS ARE POURED THE SAME DAY.

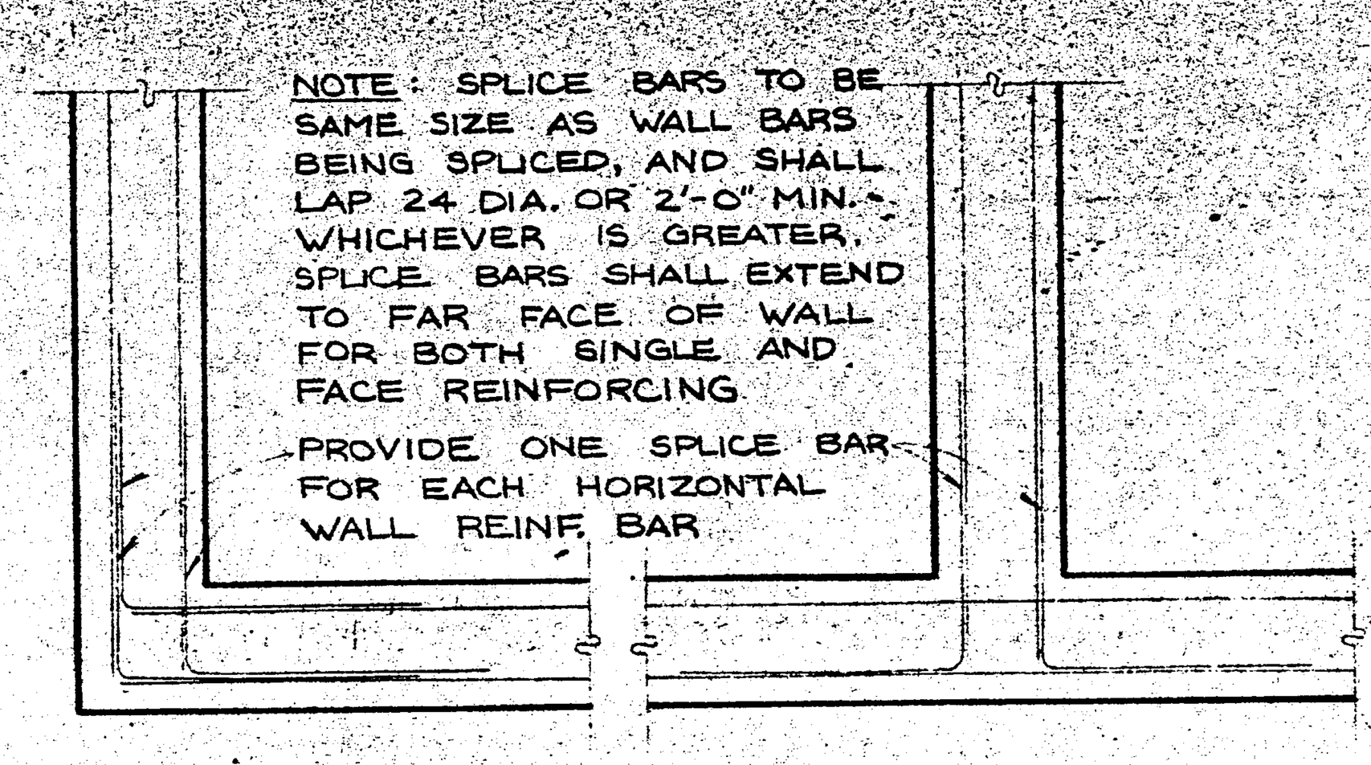


TYPICAL CONSTRUCTION JOINT DETAIL FOR SLABS ON GRADE



NOTE: PROVIDE GRADE BEAMS AS SHOWN UNDER ALL 6" OR 8" MASONRY PARTITIONS WHICH ARE SUPPORTED BY SLABS ON GRADE. ALL GRADE BEAMS MEETING WALLS OR PIERS SHALL BEAR AT LEAST 8" ON WALL OR PIER.

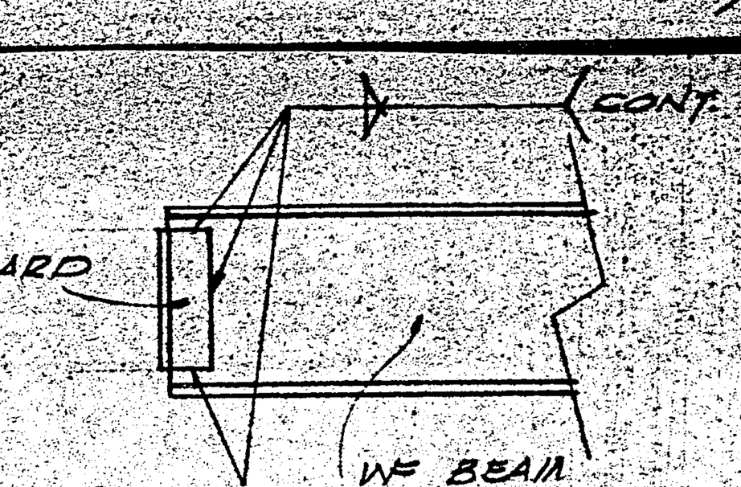
TYPICAL GRADE BEAM AT 6" OR 8" MASONRY PARTITIONS



NOTE: SPLICE BARS TO BE SAME SIZE AS WALL BARS BEING SPLICED, AND SHALL LAP 24 DIA. OR 2'-0" MIN., WHICHEVER IS GREATER. SPLICE BARS SHALL EXTEND TO FAR FACE OF WALL FOR BOTH SINGLE AND FACE REINFORCING. PROVIDE ONE SPLICE BAR FOR EACH HORIZONTAL WALL REINF. BAR.

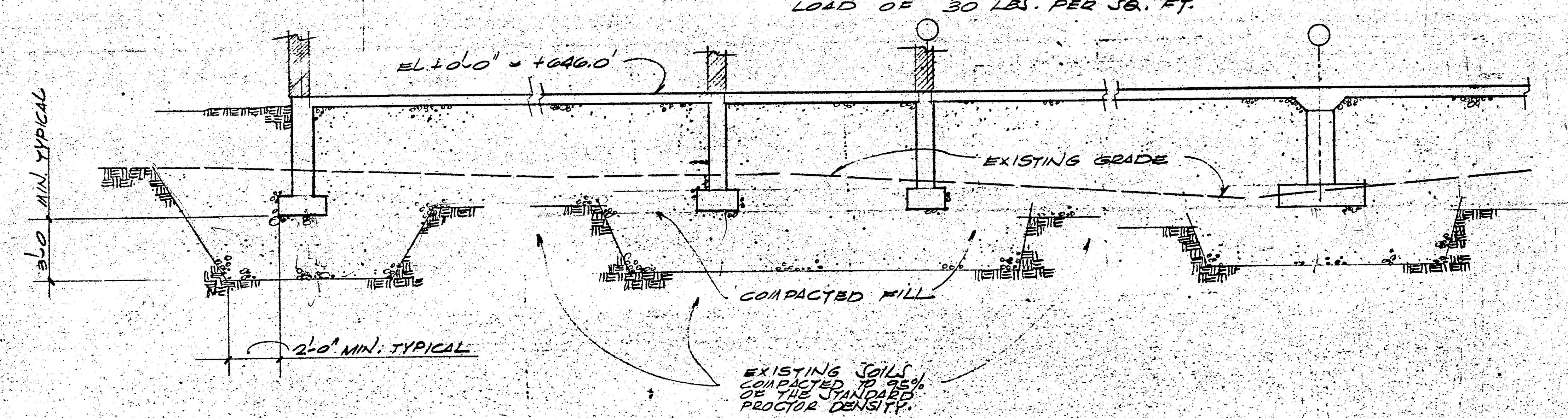
PLAN AT CORNER PLAN AT INTERSECTION

TYPICAL DETAILS OF SPLICES FOR HORIZONTAL REINFORCEMENT AT CORNERS & INTERSECTIONS OF REINFORCED CONCRETE WALLS



NOTE: WELDED CONNECTIONS TO BE EQUAL TO STANDARD FRAMED CONNECTIONS, THE HEAVIEST OF THE SERIES.

ANGLE CONNECTION



FOUNDATION SECTION SHOWING EXTENT OF COMPACTED FILL MATERIAL
(SEE ALSO GENERAL NOTES)

NO	PRINTS & DISTRIBUTION	BY	DATE
8	OFFICE (3) GC (5)	JJC	9-14-65
11	SCHOOL ON RECORD SET	JJC	9-8-65
12	VAN KEPPEL (GC)	JJC	9-8-65
3	OFFICE (1) STEMP 2	JJC	10-22-65
6	VAN KEPPEL (GC)	JJC	10-29-65
1	THYBAR	JJC	11-8-66
1	SCHOOL BOARD (1) BUSS (1)	JJC	2-3-66
3	HOBART (1) ...		5/4/66

NO	REVISIONS - THUS	BY	DATE

WESTCHESTER TOWNSHIP ELEMENTARY SCHOOL
5TH STREET & UNION AVENUE CHESTERTON INDIANA
FOR THE WESTCHESTER TOWNSHIP SCHOOL CORPORATION

GENERAL NOTES

Perkins & Will Partnership — ARCHITECTS
309 West Jackson Blvd. Chicago Illinois 60606

CHESTER L. STEMP & ASSOCIATES — ASSOCIATE ENGINEERS
133 North Calumet Road, Chesterton, Indiana 46304

DATE 4-20-65
PROJECT NO. 21970-5
DRAWN BY GREIFENDORF
CHECKED BY RITTS
DEPT. HEAD COLIN
PROJ. ARCH. P. BENOUEL

RS 1

APPROVED FOR CONSTRUCTION SEPTEMBER 20, 1965

65-RS-01

THIS DRAWING SUPERSEDES AND REPLACES DRAWING # S-1 DATED 6-21-65