

STRUCTURAL NOTES

GENERAL

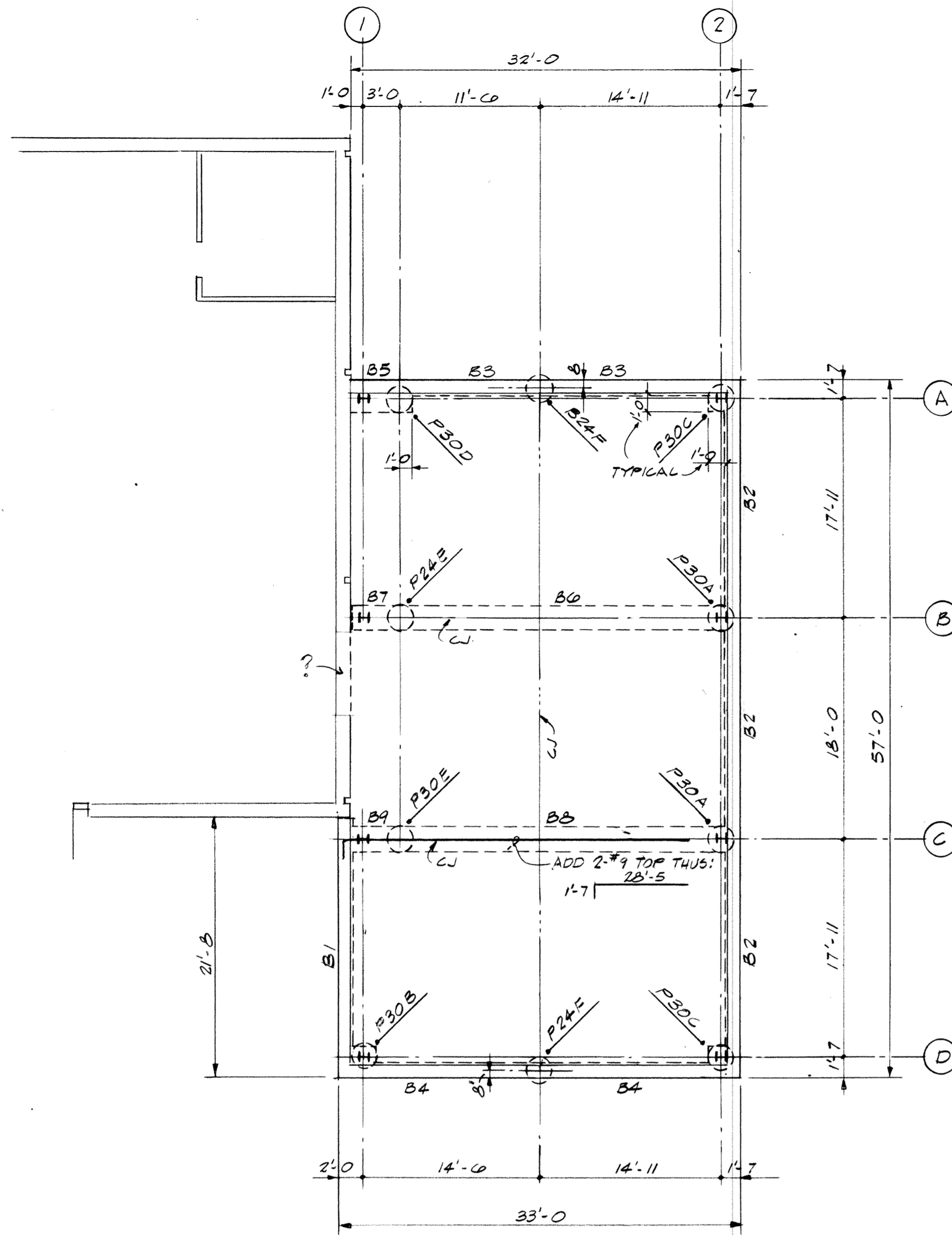
- 1. STRUCTURAL ELEVATIONS ARE GIVEN FROM BUILDING FLOOR LINE.
- 2. SLOPE SURFACES UNIFORMLY BETWEEN SURFACE ELEVATIONS SHOWN UNLESS INDICATED OTHERWISE.
- 3. VERIFY ALL DIMENSIONS AND CONDITIONS DEPENDENT ON EXISTING CONSTRUCTION.
- 4. CONSULT MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR OPENINGS THRU SLABS AND ROOF DECK.
- 5. VERIFY DIMENSIONS DEPENDENT ON MECHANICAL OR OTHER EQUIPMENT WITH THE MANUFACTURER OF THE EQUIPMENT FURNISHED.
- 6. DESIGN LIVE LOADS: ROOF 20 psf
- 7. DESIGN FOUNDATION BEARING PRESSURE: 16,000 psf
- 8. DIMENSIONING CONVENTIONS: INCH MARKS GENERALLY OMITTED ON PLAN AND DETAIL DIMENSIONS, FEET AND INCH MARKS GENERALLY OMITTED IN SCHEDULES.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE IN SECTION IS INDICATED THUS: $\square \text{---} \square$
- 2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 3,500 psi
- 3. CONCRETE SLUMP: 4" WITH TOLERANCE OF -1" AND + 1/2"
- 4. MAXIMUM SIZE CONCRETE COARSE AGGREGATE: 1 1/2"
- 5. USE AIR-ENTRAINING ADMIXTURE AS SPECIFIED IN ALL EXTERIOR EXPOSED CONCRETE. ADD HIGH-RANGE WATER REDUCING ADMIXTURE (SUPER-PLASTICIZER) AS SPECIFIED TO CONCRETE WITH 4" SLUMP FOR ALL SLABS. USE TYPE G HIGH-RANGE WATER REDUCING ADMIXTURE DURING HOT WEATHER AND TYPE F OR G AT OTHER TIMES.
- 6. REINFORCING BARS: ASTM A615 (SI), GRADE 60.
- 7. WELDED WIRE FABRIC: ASTM A185. FURNISH IN FLAT SHEETS. LAP 6" MINIMUM AT SPLICES.
- 8. HOOKS ARE STANDARD 90 DEGREE UNLESS SHOWN OTHERWISE.
- 9. ALL HORIZONTAL REINFORCEMENT IS CONTINUOUS UNLESS SHOWN OTHERWISE. SPLICES MAY BE MADE WHERE CONVENIENT. LAP BARS AT SPLICES AS REQUIRED BY THE LAP SPLICE SCHEDULE. TERMINATE BARS AT ENDS OF BEAMS AS DETAILED.
- 10. UNLESS SHOWN OTHERWISE CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS: 3" WHERE CONCRETE IS PLACED AGAINST EARTH
1" FOR REINFORCEMENT IN SLABS
2" ELSEWHERE.
- 11. DO NOT USE EARTH AS SIDE FORM FOR FOUNDATION BEAMS OR PEDESTALS.
- 12. REINFORCE GRADE SLABS ON DRAINAGE FILL WITH 6 x 6 - W2.9 x W2.9 WELDED WIRE FABRIC PLACED APPROXIMATELY 1" FROM TOP OF SLAB.
- 13. INSTALL VAPOR BARRIER SPECIFIED OVER DRAINAGE FILL BEFORE PLACING SLABS SUPPORTED THEREON. TURN VAPOR BARRIER UP AGAINST SURFACES AGAINST WHICH SLABS ABUT.
- 14. KEYWAYS SHOWN ARE 1 1/2" x 3 1/2" CONTINUOUS UNLESS INDICATED OTHERWISE.
- 15. TOOL EXPOSED EDGES OF BEAMS AND SLABS TO 1/8" RADIUS.
- 16. CONSOLIDATE ALL CONCRETE BY MECHANICAL VIBRATION.

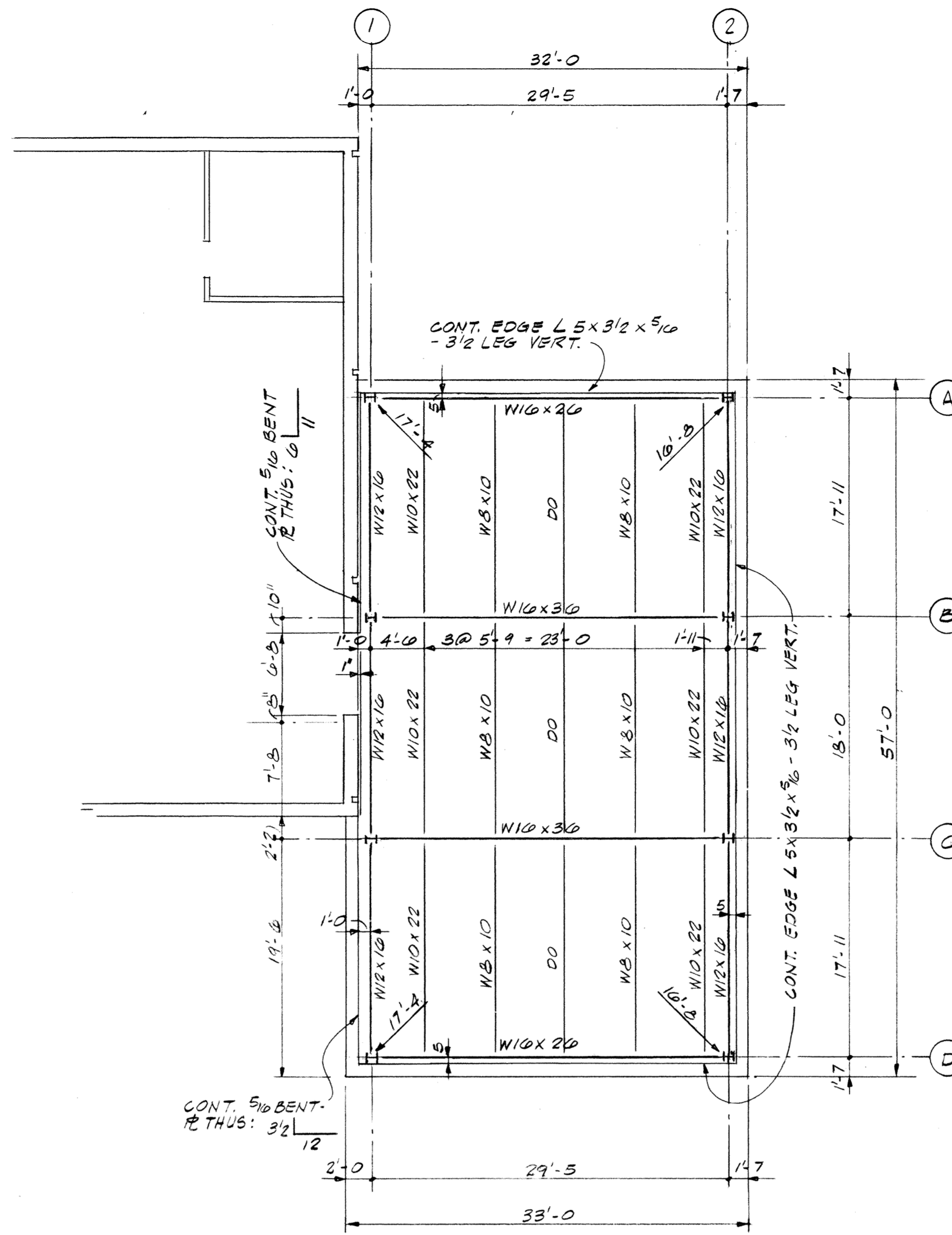
STRUCTURAL STEEL

- 1. STRUCTURAL STEEL: ASTM A500, GRADE B FOR STRUCTURAL TUBING
ASTM A36 ELSEWHERE.
- 2. CONNECTION BOLTS ARE INDICATED THUS: \equiv OR $+$ AND SHALL BE ASTM A325 IN BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. BOLT SIZE SHALL BE 3/4" UNLESS SHOWN OTHERWISE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION UNLESS SHOWN OTHERWISE.
- 3. ANCHOR BOLTS: ASTM A36 OR A307.
- 4. WELDING ELECTRODES: AWS A5.1, E7018.
- 5. BOLTS, WELDS AND CONNECTION PIECES SHOWN ON ONE SIDE OR FLANGE OF A SYMMETRICAL MEMBER OCCUR ON BOTH SIDES OR FLANGES UNLESS INDICATED OTHERWISE.
- 6. FIELD WELDING IS NOT DISTINGUISHED FROM SHOP WELDING BUT SHALL BE USED WHEN NECESSARY OR CONVENIENT.
- 7. UNLESS SHOWN OTHERWISE DETAILING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC REQUIREMENTS AS SPECIFIED.
- 8. ENCASE BASES OF COLUMNS BELOW GRADE WITH 3" MINIMUM CONCRETE OR APPLY BELOW GRADE WATERPROOFING AS SPECIFIED TO COLUMN BASES BELOW GRADE.



FOUNDATION PLAN \rightarrow
1/8" = 1'-0"

NOTE: INSTALL 5" SLAB ON 4" DRAINAGE FILL IN ALL FLOOR AREAS. TOP OF SLAB AT FLOOR LEVEL.



ROOF FRAMING PLAN \rightarrow
1/8" = 1'-0"

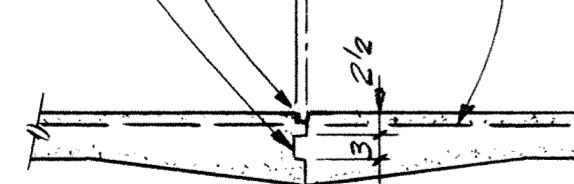
- NOTE:
- 1. INSTALL ROOF DECK SPECIFIED OVER ROOF FRAMING
 - 2. ELEVATIONS OF BOTTOM OF ROOF DECK INDICATED THUS: ∇ LOCATE AND SLOPE SUPPORTING STEEL ACCORDINGLY.
 - 3. ALL COLUMNS W10x33

COAT JOINT EDGES WITH CURING COMPOUND BEFORE PLACING ADJACENT SLAB

1/4" SEALANT GROOVE

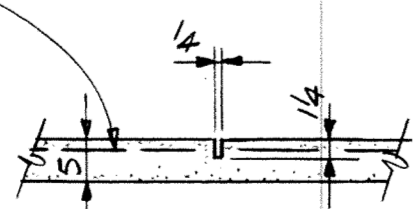
REINFORCEMENT DISCONTINUOUS AT JOINT.

1/2 OR 1/4



ALLOW 48 HOURS TO ELAPSE AFTER PLACING CONCRETE ON ONE SIDE OF JOINT BEFORE BEGINNING PLACEMENT ON OTHER SIDE.

CONSTRUCTION JOINT



SAWING OPERATIONS MUST BEGIN NO LATER THAN ONE HOUR AFTER FINISHING OPERATIONS ARE COMPLETED. AT LOCATIONS NOT ACCESSIBLE TO THE SAW, MAKE JOINT SHOWN IN WET CONG.

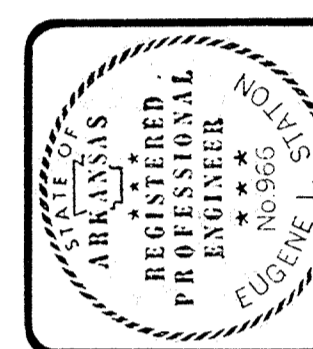
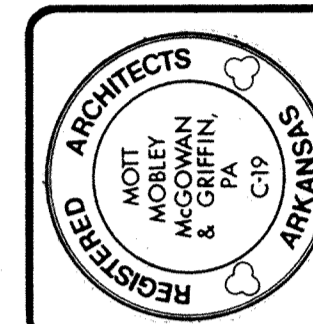
SAWED JOINT

GRADE SLAB CONTROL JOINTS

1/2" = 1'-0"

REQUIRED CONTROL JOINTS ARE NOTED C.J. ON THE PLAN & MAY BE EITHER CONSTR. JOINTS OR SAWED JOINT.

MM MG



PROJECT NO. HFRZ929948
ADD./ ALTER. ECM POD SHOP
AIR NATIONAL GUARD TRAINING FACILITY
MUNICIPAL AIRPORT - FT. SMITH, ARKANSAS

FOUNDATION & ROOF FRAMING PLANS - STRUCTURAL NOTES

Revisions	
1440	S1.1
7-30-93	
Date	Or