NOTES

A. GENERAL

1. SEE DRAWING NO. SC-1 FOR GENERAL NOTES AND ABBREVIATIONS.

B. STRUCTURAL STEEL

1. THE STEEL FRAME FOR THIS BUILDING IS CLASSIFIED AS NON-SELF SUPPORTING, AND REQUIRES INTERACTION WITH THE PERIMETER CONCRETE WALLS AND STEEL ROOF DECK TO PROVIDE LATERAL STABILITY. THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE TEMPORARY BRACING TO RESIST THE WIND LOADS SHOWN ON THE DRAWINGS UNTIL THE PERMANENT LATERAL BRACING AND ROOF DECK DIAPHRAGM ARE INSTALLED, AND ALL FINAL CONNECTIONS OF THE STEEL FRAME AND STEEL ROOF DECK HAVE BEEN COMPLETED.

2. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE CONNECTION DESIGN REACTIONS TABULATED BELOW:

MINIMUM SHEAR CAPACITIES
(FOR STANDARD ROLLED SHAPES - ASTM A36)

W36	140 KIPS	W16	36 KIPS
W33	115 KIPS	W14, C15	28 KIPS
W30	100 KIPS	W12, C12	20 KIPS
W27	70 KIPS	W10, C10	15 KIPS
W24	50 KIPS	W8, C9	12 KIPS
W21	50 KIPS	W6, C8	10 KIPS
W18, C18	42 KIPS	W5, C5	8 KIPS

3. STRUCTURAL STEEL SHALL BE ASTM A36.

4. STEEL TUBES SHALL BE ASTM A500, GRADE B.

5. BOLTS SHALL BE 3/4" DIAMETER IN ACCORDANCE WITH ASTM A325.

6. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A307.

7. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS USING E70XX ELECTRODES AND SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".

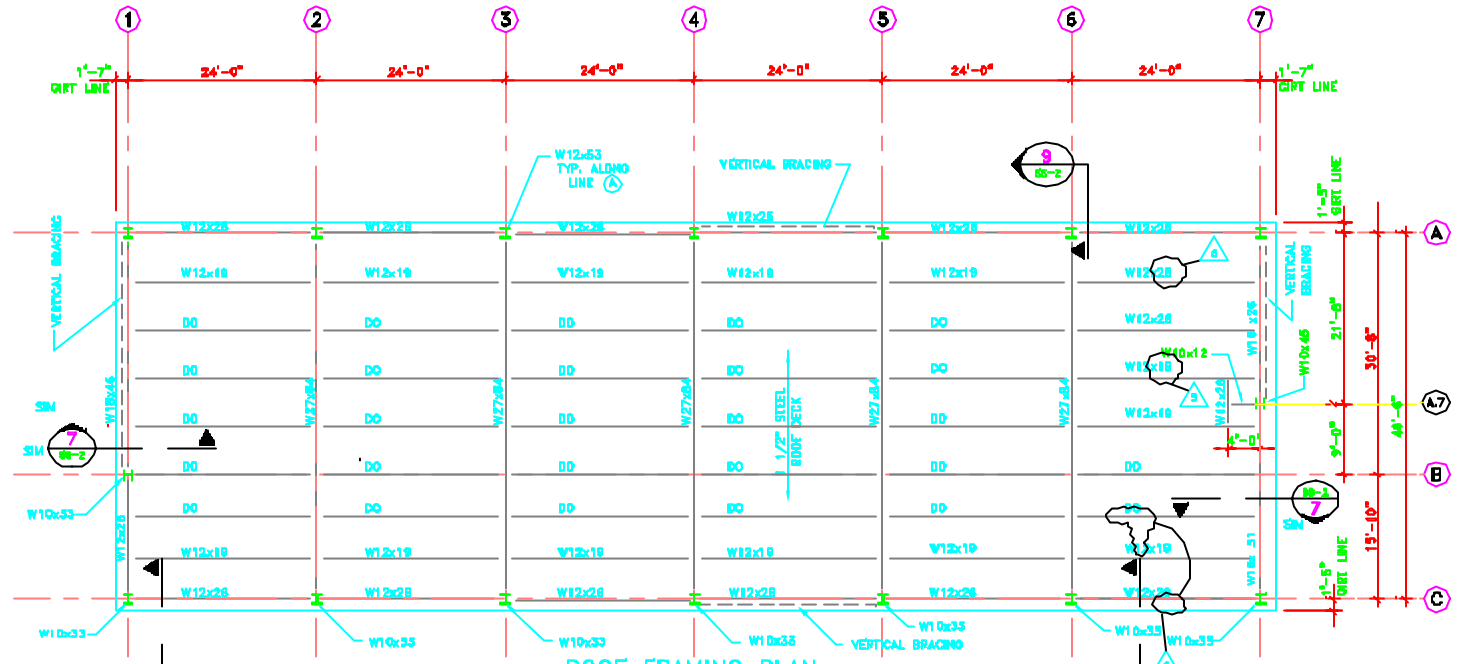
8. BEAMS SHALL BE EQUALLY SPACED UNLESS OTHERWISE NOTED.

C. STEEL DECK

1. STEEL ROOF DECK SHALL BE 1-1/2 INCHES DEEP, TYPE B (WIDE RIB), 20 GAGE, G-90 GALVANIZED; AND PRIME PAINTED, WITH A MINIMUM MOMENT OF INERTIA I = 0.219 IN4/FT.

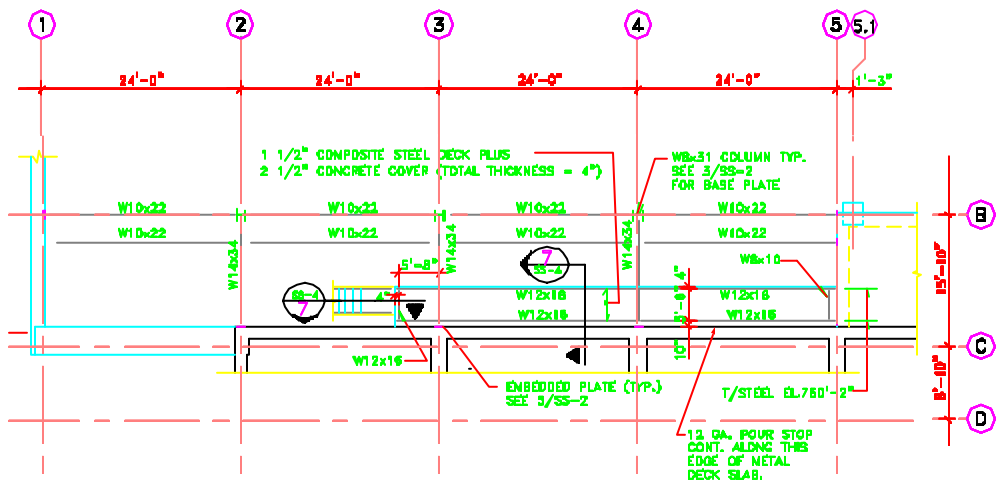
2. STEEL ROOF DECK SHALL BE WELDED TO STEEL FRAMING @ 6" O.C. WITH 5/8" DIAMETER FUSION WELDS, UNLESS OTHERWISE NOTED. SIDE LAPS SHALL BE FASTENED AT 14" O.C. WITH #10 SCREWS.

3. COMPOSITE STEEL FLOOR DECK SHALL BE 1-1/2 INCHES DEEP, 20 GAGE, G-90 GALVANIZED AND PRIME PAINTED, WITH A MINIMUM MOMENT OF INERTIA I = 0.184, AND A MINIMUM POSITIVE SECTION MODULUS Sp = 0.229.



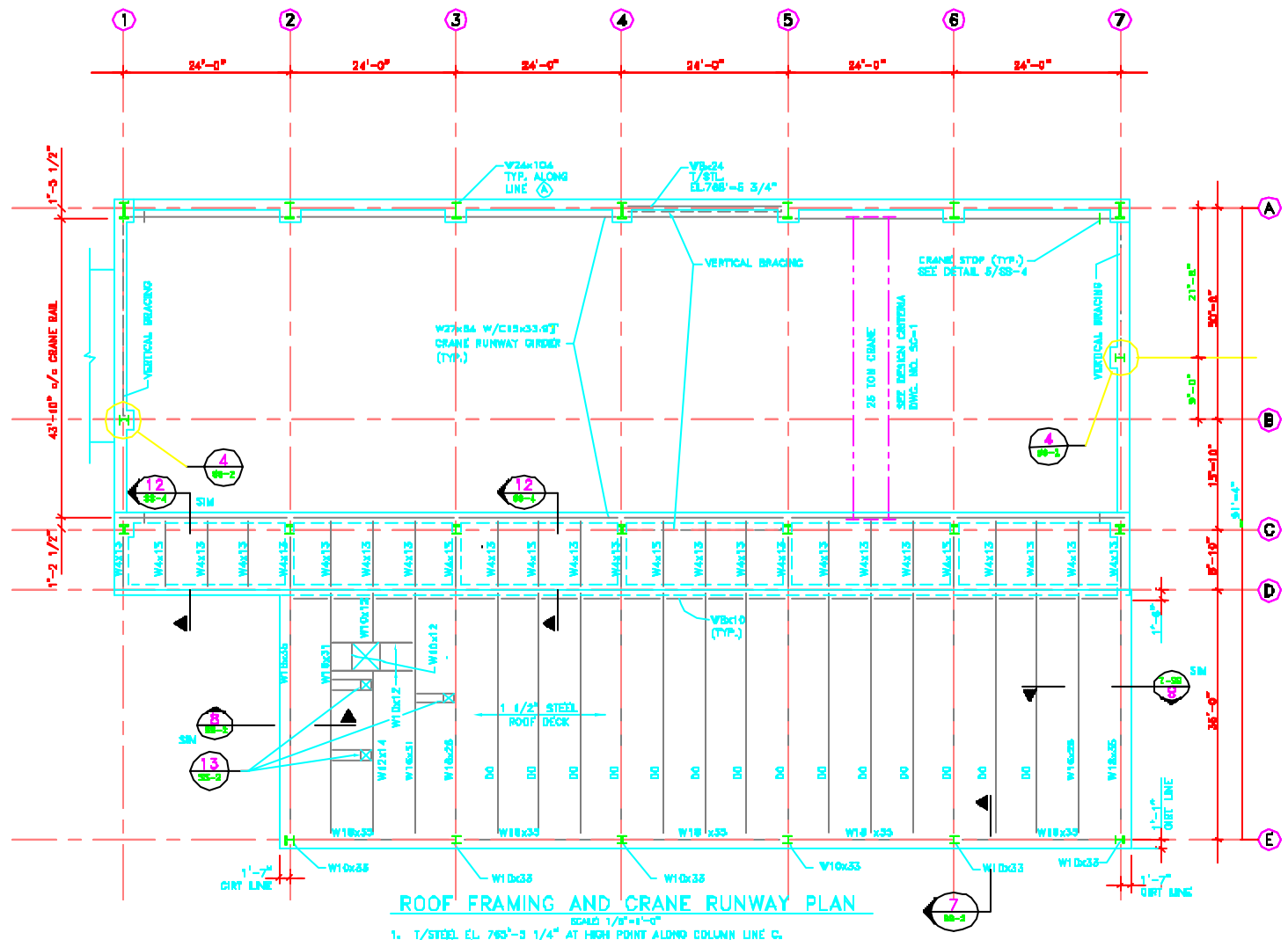
ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

1. T/STEEL EL. 779'-0" AT HIGH POINT ALONG GRID LINE A.
   T/STEEL EL. 778'-0" AT LOW POINT ALONG GRID LINE C.
2. FOR BRACING ELEVATIONS SEE DRAWING NO. SS-3.



GRADE LEVEL FRAMING PLAN
SCALE: 1/8"=1'-0"

NOTES:
1. T/STEEL EL. 749'-2" TYP. U.O.N.
   T/SLAB EL. 750'-8"



ROOF FRAMING AND CRANE RUNWAY PLAN
SCALE 1/8"=1'-0"

1. T/STEEL EL. 763'-3 1/4" AT HIGH POINT ALONG COLUMN LINE C.
   T/STEEL EL. 765'-3" AT MID POINT ALONG COLUMN LINE D.
   T/STEEL EL. 764'-6" AT LOW POINT ALONG COLUMN LINE E.
2. CRANE RUNWAY GIRDER T/STEEL EL. 768'-4 13/16".
   CRANE RAIL T/STEEL EL. 768'-10".

No.	Date	Drawing Issue Description	By
3	9/30/94	RELOCATE BEAMS NEAR A-7	
4	9/8/94	ADDED ROOF FRAMING AT SE CORNER OF EXP. HALL	

KNIGHT
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	NAME	DATE
GEOSPUTE REVIEW	T. LACKOWSKI	1/28/94
CRITERIA REVIEW	J. TITUS S. DIXON	1/28/94
EAP APPROVAL	E. CRUMPLEY	1/28/94
FESS APPROVAL	W. NESTANDER	1/28/94
SUBMITTED	C. BOCK	1/28/94

PROJECT NORTH

SCALE: 1/8"=1'-0" 0 4 8 16 FEET

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

KTeV EXPERIMENTAL AREA
FRAMING PLANS & NOTES

DRAWING NO. 8-6-3 SS-1 REV. 6

SO 332. 7948