

GENERAL STEEL NOTES

- ALL STEEL SHALL BE NEW AND SHALL BE ASTM A992 (FY=50 KSI) EXCEPT TUBE COLUMNS SHALL BE ASTM A500 GRADE B WITH FY=46KSI.
- STEEL DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CODES AND SPECIFICATIONS OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.
- UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS, ALL CONNECTIONS SHALL BE STANDARD FRAMED BEAM CONNECTIONS WITH 3/4" DIAMETER HIGH STRENGTH BOLTS AS SHOWN IN TABLE II OF THE CURRENT A.I.S.C. MANUAL OF STEEL CONSTRUCTION. THE CONNECTION SHALL BE DESIGNED FOR A REACTION EQUAL TO THE VALUE 'R' TABULATED AT THE BOTTOM OF THE UNIFORM LOAD BEAM TABLES.
- NO CONNECTION SHALL CONSIST OF LESS THAN 2-3/4" DIAMETER HIGH STRENGTH BOLTS OR WELDS DEVELOPING NOT LESS THAN 10,000 POUNDS.
- ALL WELDING SHALL BE ETOXX ELECTRODES AND IN ACCORDANCE WITH A.I.S. SPECIFICATIONS.
- FIELD WELD BAR JOISTS TO BEAMS & ANCHOR PLATES.
- IN ADDITION TO WEB CONNECTION, PROVIDE 4X4X3/8" ANGLE SEAT FOR ALL GIRDERS FRAMING INTO COLUMNS.
- ALL STEEL JOISTS SHALL CONFORM TO STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS.
- EXTEND BOTTOM CHORD OF BAR JOISTS AND CONNECT TO COLUMNS AT ALL COLUMN LINES AND WHERE SHOWN BY 'X'.
- PROVIDE STANDARD MASONRY ANCHORS FOR BEAMS BEARING ON MASONRY EXCEPT AS NOTED.
- ALL ELEVATIONS ARE TO TOPS OF STEEL BEAMS UNLESS NOTED. SLOPE BEAMS UNIFORMLY BETWEEN ELEVATIONS SHOWN.
- SEE OTHER DRAWINGS FOR MISCELLANEOUS ANGLES, HOLES ETC.
- SEE FOUNDATION PLAN FOR ANCHOR BOLTS & SETTING PLATES.
- ALL STRUCTURAL STEEL INCLUDING BAR JOISTS SHALL HAVE ONE SHOP COAT OF RUST-INHIBITIVE PAINT.
- PROVIDE A 1/4" STIFFENER PLATE IN WEB OF GIRDERS WHERE THEY FRAME OVER COLUMNS, ONE SIDE ONLY.
- SIZE OF STRUCTURAL STEEL CANNOT BE VARIED FROM THOSE SHOWN ON THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT/ENGINEER.
- PROVIDE ALL LOOSE ANGLE LINTELS FOR MASONRY OPENINGS WHERE REQUIRED. LINTELS SHALL BE AS FOLLOWS: (UNLESS NOTED OTHERWISE). FOR OPENINGS IN 4" WALLS PROVIDE W/4 X 7.5 WITH 6" BEARING EACH END. FOR OPENINGS IN 6" WALLS PROVIDE W/4 X 8.5 WITH 6" BEARING EACH END. FOR WALLS 8" OR GREATER, PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. THESE ANGLES SHALL BE 4 X 3 1/2 X 5/16 WITH 6" BEARINGS EACH END FOR OPENINGS LESS THAN 5'-0" WIDE, FOR OPENINGS 5'-0" OR WIDER, 5 X 3 1/2 X 3/8 ANGLES WITH 6" BEARING EACH END.
- PROVIDE MECHANICAL ROOFTOP EQUIPMENT SUPPORT ANGLE FRAMING. COORDINATE EXACT LOCATION AND SIZE OF OPENINGS WITH HVAC CONTRACTOR.

ROOF DECK NOTES

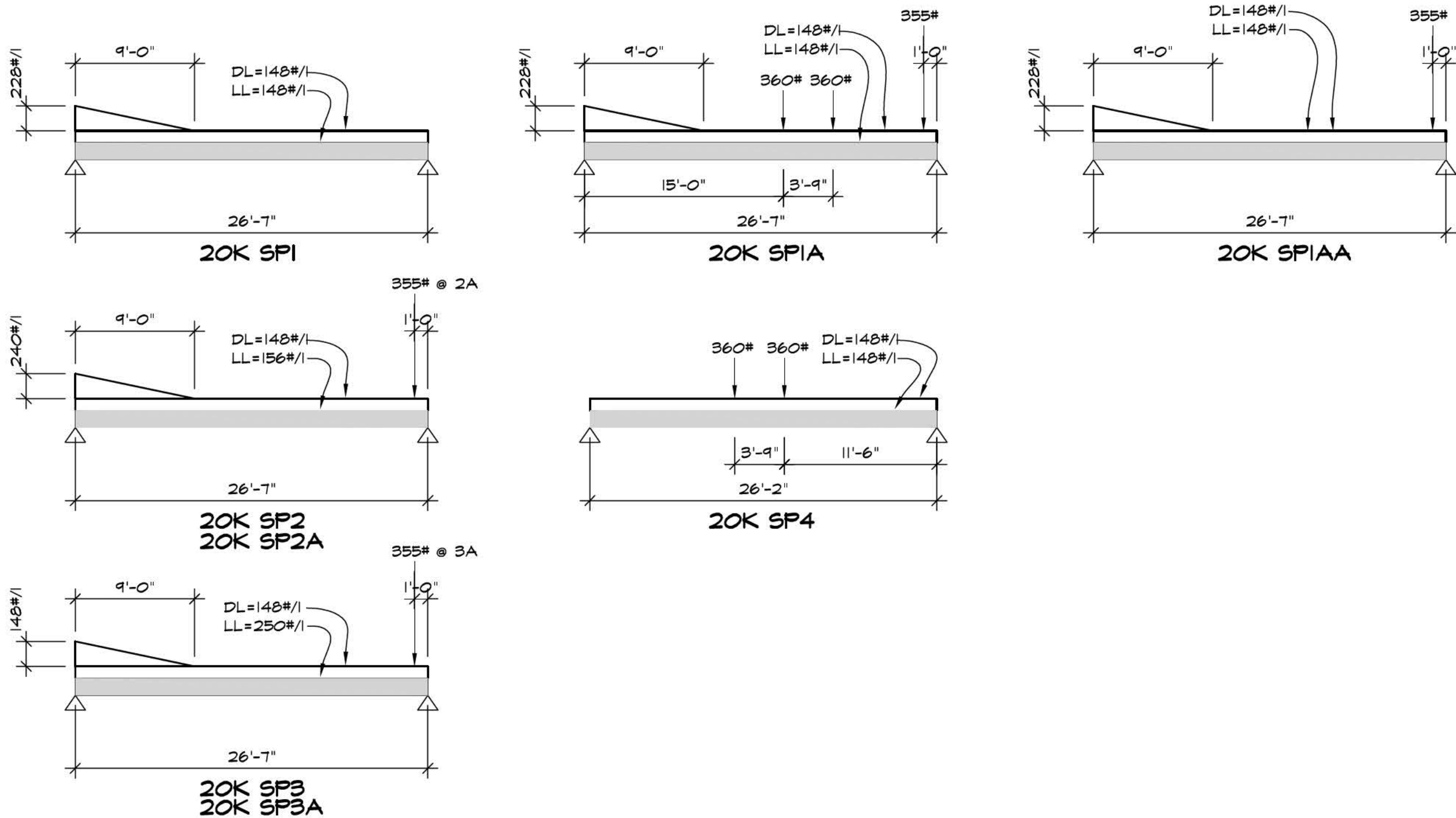
- ROOF DECK SHALL BE TYPE "B" WIDE RIB, 22 GAUGE, PAINTED METAL DECK.
- THE DECK SHALL BE WELDED TO THE SUPPORTS BY 5/8" DIAMETER WELDS WITH A FREQUENCY OF 4 WELDS PER 3 FEET.
- PROVIDE TWO INTERMEDIATE SIDELAP CONNECTION WITH #12 TEK FASTENER AT THE CENTER OF EACH DECK SPAN.

DESIGN LOADS

ROOF LOAD	
ROOFING	6 PSF
INSULATION	2
METAL DECK	3
MECHANICAL	5
JOISTS	4
CEILING	5
TOTAL DEAD LOAD	25
LIVE LOAD	25
TOTAL LOAD	50 PSF

DESIGN LOADS

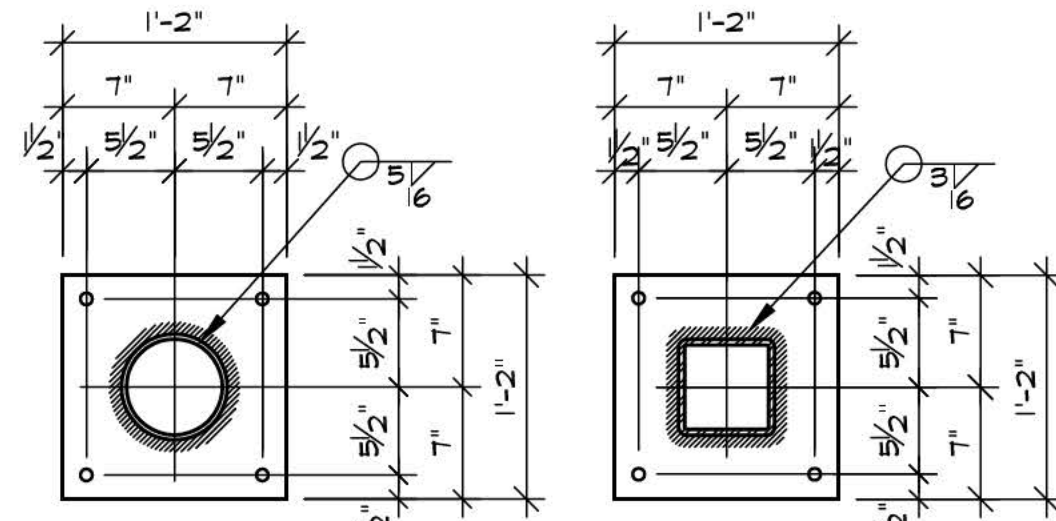
2012 INTERNATIONAL BUILDING CODE	
A. FLOOR (RETAIL FIRST FLOOR)	100 PSF
B. ROOF SNOW LOADS	
GROUND SNOW LOAD	25 PSF
EXPOSURE FACTOR (Ce)	1.0
IMPORTANCE FACTOR (I)	1.0
THERMAL FACTOR (ct)	1.0
C. DEAD LOADS	ACTUAL MATERIAL WEIGHTS
D. WIND LOADS	
3 SECOND GUST	90 MPH
IMPORTANCE FACTOR	1.0
EXPOSURE CATEGORY (MNFRS)	B
EXPOSURE CATEGORY (C&C)	
MAIN WIND FORCE PRESSURE	16 PSF
WIND PRESSURE (MAFPP)	
COMPONENTS & CLADDING VARIES	16/20 PSF
E. SEISMIC LOADS	
SEISMIC USE GROUP	II
SITE CLASS	D
SPECTRAL RESPONSE COEFF.	
SHORT PERIODS (SDS)	.148
1 SECOND PERIODS (SD1)	.104
BASIC STRUCTURAL SYSTEM	
ORDINARY REINFORCED MASONRY SHEAR WALLS	
RESPONSE MOD FACTOR (R)	2.0
DESIGN BASE SHEAR (V)	.0739W
ANALYSIS BY EQUIV. LATERAL FORCE PROCEDURE	
SEISMIC DESIGN CATEGORY	B
F. HANDRAILS & GUARDS	
UNIFORM LOAD IN ANY DIRECTION	50 LB/FT
CONCENTRATED LOAD IN ANY DIRECTION	200 LB/FT



NOTE: JOIST MANUFACTURER SHALL DESIGN FOR THE LOADING SHOWN IN THE DIAGRAMS SHOWN HEREIN

JOIST DIAGRAMS

NO SCALE



C1

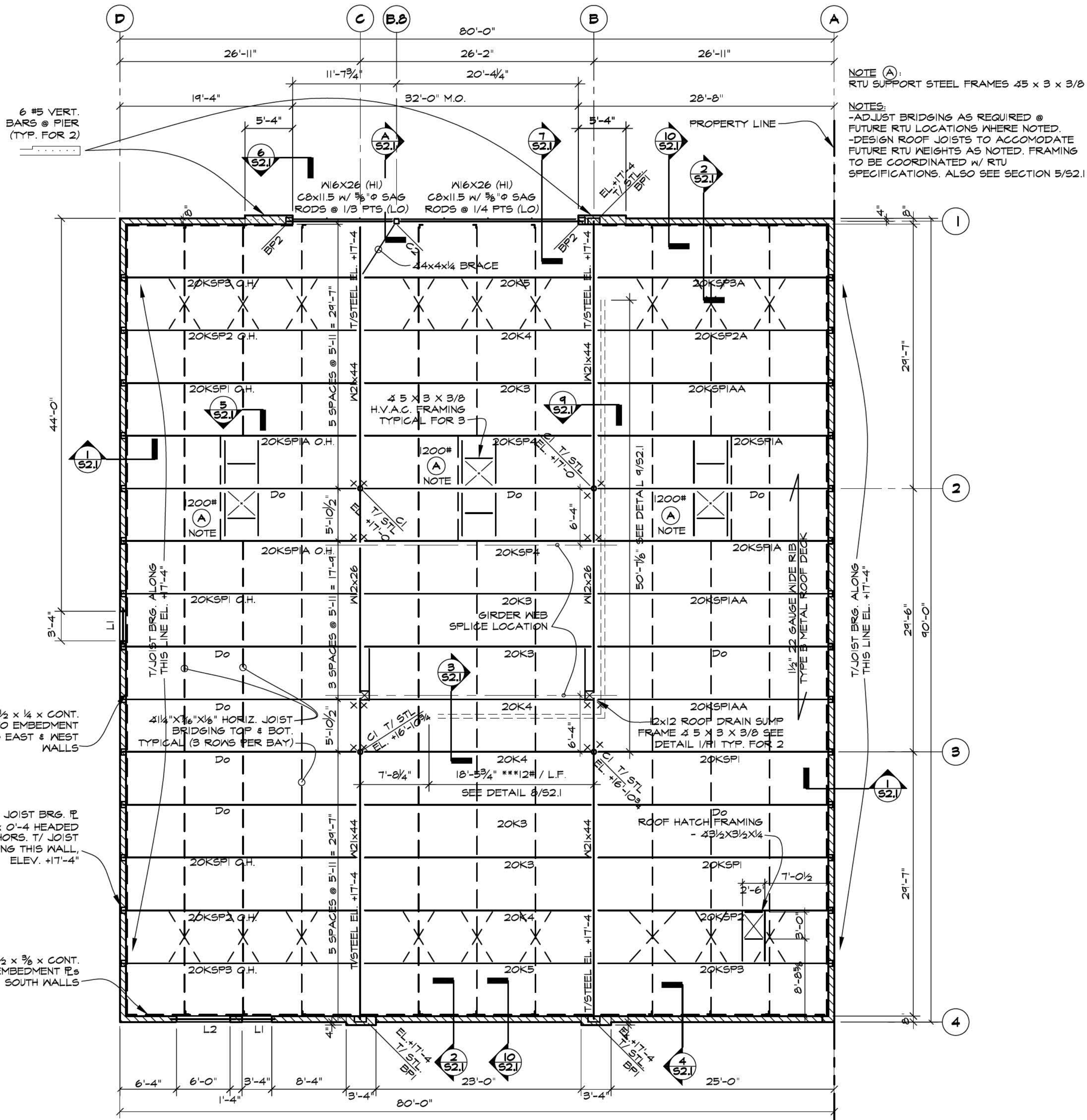
6" STD. PIPE COL.
14" x 14" x 1'-2" SET PL.
14" x 1" x 1'-2" BASE PL.
ON 3/4" GROUT BED
W/ 4-3/4" x 1'-6" A.B.

C2

HSS 6 x 6 x 1/4" COL.
W/ 14" x 14" x 1'-2" SET PL.
14" x 3/4" x 1'-2" BASE PL.
ON 3/4" GROUT BED
W/ 4-3/4" x 1'-6" A.B.

COLUMN BASE PLATE DETAILS

SCALE: 1" = 1'-0"



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

LINTEL SCHEDULE

L1 24s 3 1/2 x 3 1/2 x 3/16

L2 C8 x 11.5 x 7 x 5/16 PL

NOTES:

PROVIDE MIN. 8" BEARING EACH END. INSTALL W/ LINTEL FLASHING COMPLETE W/ END DAMS.

BEARING PLATES

BP1 8 x 3/4 x 0'-10 PL W/ (2) 1/2" x 4 HEADED ANCHORS

BP2 9 x 1/2 x 0'-9 PL W/ (2) 1/2" x 4 HEADED ANCHORS

REVISIONS

THIS DRAWING	FOR COORDINATION	FOR BIDDING	FOR PERMIT	FOR CONTRACTING	FOR CONSTRUCTION
NOT	NOT	NOT	NOT	NOT	NOT

KMA & ASSOCIATES, INC. ARCHITECTS
1121 LAKE COOK ROAD
DEERFIELD, ILLINOIS
(847)945-0284
FAX(847)945-6869

O'REILLY AUTO PARTS
DOLTON PLAZA
1317 E. SIBLEY BLVD.
DOLTON, IL 60419
FOR: DEPARTMENT PROPERTY GROUP, LLC

SHEET TITLE
ROOF FRAMING PLAN, JOIST
DIAGRAMS & NOTES

1906

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