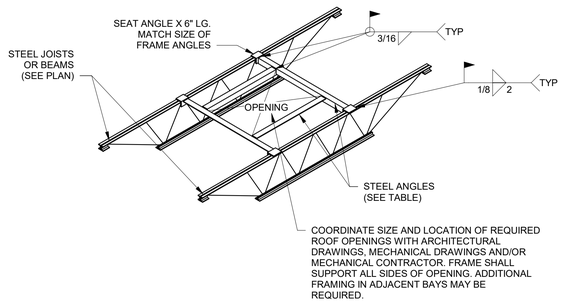


SPAN	ANGLE SIZE
UP TO 4'-0"	L3X3X3/16
4'-1" TO 6'-0"	L4X3X1/4 (LLV)
6'-1" TO 8'-0"	L5X3X1/4 (LLV)
8'-1" TO 10'-0"	L6X4X5/16 (LLV)

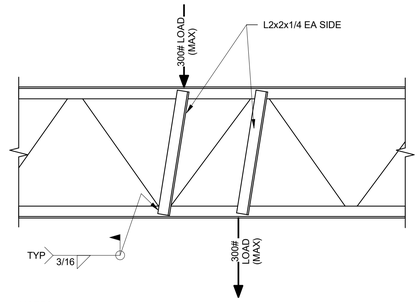
NOTES:

1. PROVIDE FRAMING AT ROOF DRAINS.
2. WELD/CONNECT DECK TO ALL FRAMING AT 6" OC MAXIMUM SPACING. COORDINATE WITH ENGINEER FOR SPECIAL DETAILS REQUIRED TO CONNECT ANGLES TO EXISTING DECK IN AN INSTALLATION OF NEW UNIT ON EXISTING ROOF FRAMING.
3. WHEN JOIST BRIDGING CONFLICTS WITH ROOF OPENING FRAMES, STOP BRIDGING AT EACH SIDE OF OPENING, PROVIDE CROSS BRIDGING AT LAST BRIDGING SPACE EACH SIDE OF OPENING AND CONNECT ENDS OF BRIDGING TO OPENING FRAMING. ADD ADDITIONAL BRIDGING AND CROSS BRIDGING ON EACH SIDE OF OPENING ON EACH SIDE OF CUT BRIDGING AREA WITH BRIDGING EXTENDED ONE BAY BEYOND EACH SIDE OF OPENING.
4. ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).
5. THIS DETAIL IS NOT APPLICABLE TO ROOFTOP EQUIPMENT CURBS. REFER TO TYPICAL EQUIPMENT CURB SUPPORT DETAIL FOR CURB SUPPORT FRAMING.

TYPICAL ROOF OPENING DECK SUPPORT FRAMING - ISOMETRIC

1 S521

SCALE: 3/8" = 1'-0"



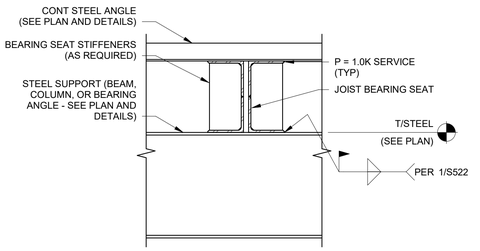
NOTES:

1. STRUT IS NOT REQUIRED WHERE THE DISTANCE FROM PANEL POINT DOES NOT EXCEED 3" FOR K-JOISTS.
2. STRUT IS NOT REQUIRED WHERE NOMINAL CONCENTRATED LOAD DOES NOT EXCEED 100 LBS AND THE ATTACHMENTS ARE CONCENTRIC TO THE CHORD.

TYPICAL JOIST CHORD SUPPORT - SECTION

2 S521

SCALE: 1" = 1'-0"



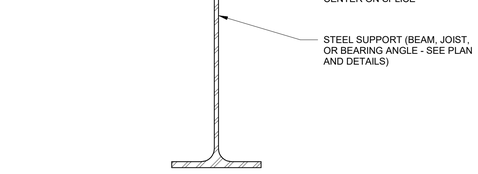
NOTES:

1. JOIST DESIGN ENGINEER SHALL DESIGN BEARING SEAT FOR LATERAL LOAD INDICATED.
2. FABRICATOR SHALL INSTALL BEARING SEAT STIFFENERS IF REQUIRED BY DESIGN.

TYPICAL JOIST ROLLOVER DESIGN FORCE - SECTION

3 S521

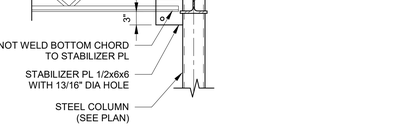
SCALE: 1" = 1'-0"



TYPICAL CONTINUOUS ROOF ANGLE SPLICE - SECTION

4 S521

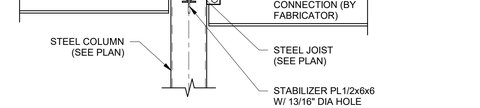
SCALE: 3" = 1'-0"



TYPICAL JOIST AT COLUMN CONNECTION - SECTION

5 S521

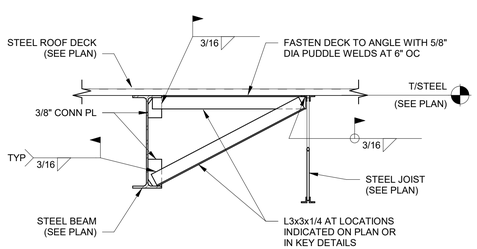
SCALE: 3/4" = 1'-0"



TYPICAL BEAM/GIRDER @ COLUMN CONNECTION - SECTION

6 S521

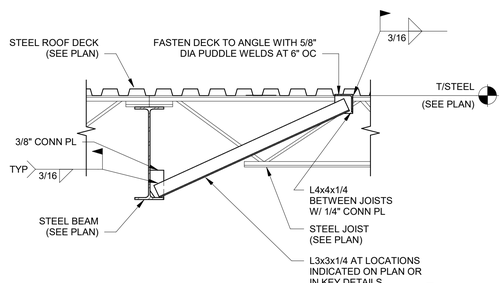
SCALE: 3/4" = 1'-0"



TYPICAL BEAM BRACING AT ROOF - SECTION

7 S521

SCALE: 3/4" = 1'-0"



Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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CONSTRUCTION DOCUMENTS

NCWSA NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

STEEL ROOF FRAMING DETAILS

DRAWING NUMBER
S521

Plot Date: 4/27/2026 6:48:25 PM Path: Autodesk Docs://NCWSA Admin Bldg_ V25\0250683-NCWSA Office Addition-R25-STRUCT.rvt