

DESIGN LOADS AND GENERAL NOTES

DESIGN LOADS

- | | |
|---|-----------------------------------|
| 1. BUILDING CODE | 2006 NORTH CAROLINA BUILDING CODE |
| 2. ROOF DEAD LOADS | 14 PSF (MAX) 6 PSF (MIN) |
| 3. ROOF LIVE LOADS | 20 PSF (MIN) (OR SNOW LOAD) |
| 4. SNOW | |
| A. GROUND SNOW LOAD, P_g | 15 PSF |
| 5. WIND | |
| A. BASIC WIND SPEED (3-SEC GUST) | 100 MPH |
| 6. SEISMIC | |
| A. MAPPED SPECTRAL RESPONSE ACCELERATION, S_a | 22.2% |
| B. MAPPED SPECTRAL RESPONSE ACCELERATION, S_1 | 10.4% |

GENERAL

- STEEL FRAMING IS NON-Self SUPPORTING AND REQUIRES INTERACTION WITH OTHER ELEMENTS NOT CLASSIFIED AS STRUCTURAL STEEL TO PROVIDE THE REQUIRED STABILITY AND RESISTANCE TO LATERAL FORCES. THE STEEL FRAMING AND ALL CONCRETE AND CMU WALLS SHALL BE TEMPORARILY BRACED UNTIL ALL STEEL BRACING, FLOOR AND ROOF DECKS, AND CONCRETE AND CMU WALLS HAVE BEEN INSTALLED AND ALL CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE. FOUNDATION WALLS SHALL HAVE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
- THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK SHALL BE COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. PENETRATIONS SHALL BE THROUGH FOUNDATION STEMWALL OR 8" CLEAR BELOW FOOTING. STEP FOOTING AS REQUIRED PER DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT AND STABILITY OF EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- EXISTING PORTION OF PLANS ARE FROM LIMITED FIELD OBSERVATIONS AND ORIGINAL DESIGN DRAWINGS. ALL EXISTING MATERIAL, DIMENSIONS, ELEVATIONS, AND GENERAL CONDITIONS OF THE BUILDING SHALL BE VERIFIED BEFORE PURCHASE OF MATERIAL AND CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER OF RECORD OF DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS IMMEDIATELY.
- BEFORE OR CONCURRENT WITH THE EXCAVATION FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE SUBBASE AND SUBGRADE OF THE EXISTING SLAB AND FOUNDATIONS TO PREVENT UNDERMINING.
- CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL INTEGRITY AND STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE TO DESIGN TEMPORARY SHORING.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT THE WAL-MART CONSTRUCTION MANAGER TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTH AND SPECIFICATIONS:

A. WIDE FLANGE STEEL SHAPES:	50 KSI	A992
B. STRUCTURAL STEEL TUBING:	46 KSI	A500 GRADE B
C. STRUCTURAL STEEL PIPE:	36 KSI	A53 TYPE E, GRADE B
D. BARS, PLATES, CHANNELS, AND ANCHOR BOLTS:	36 KSI	A36
E. ANCHOR RODS:	50 KSI	A36
F. HEADED STUD ANCHORS:	50 KSI	A108 (GRADE DESIGNATIONS 1010 TO 1020 INCLUSIVE)
G. ANGLE STEEL SHAPES:	36 KSI	A36
- WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE, LATEST REVISION. ELECTRODES SHALL BE 70KSI LOW HYDROGEN.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED ON THE CONTRACT DOCUMENTS.
- PROVIDE L6x3x1/4 (LLV) FIELD-FABRICATED FRAME BETWEEN JOISTS AT OPENINGS IN ROOF GREATER THAN 10"x10", UNO (INCLUDING ROOF DRAIN OPENINGS).

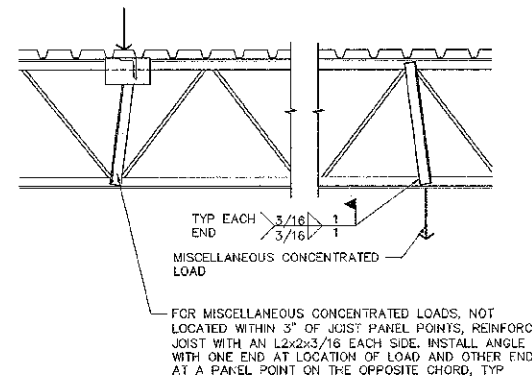
LIGHT GAGE STEEL FRAMING

- FOR 18 GAGE AND LIGHTER FRAMING, CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS.
- FOR 16 GAGE AND HEAVIER FRAMING, CONNECTIONS SHALL BE MADE BY BOLTING, BY SELF-DRILLING SELF-TAPPING SCREWS OR BY WELDING.
- ALL 18 GAGE AND LIGHTER FRAMING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. ALL 16 GAGE AND HEAVIER FRAMING SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

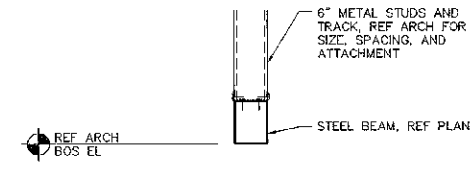
REQUIRED SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS REQUIRED BY SECTION 109, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704 OF THE 2006 NORTH CAROLINA BUILDING CODE.

ITEM	SECTION
SOILS	1704.7
CONCRETE CONSTRUCTION	1704.4
STEEL CONSTRUCTION	1704.3
MASONRY CONSTRUCTION	1704.5

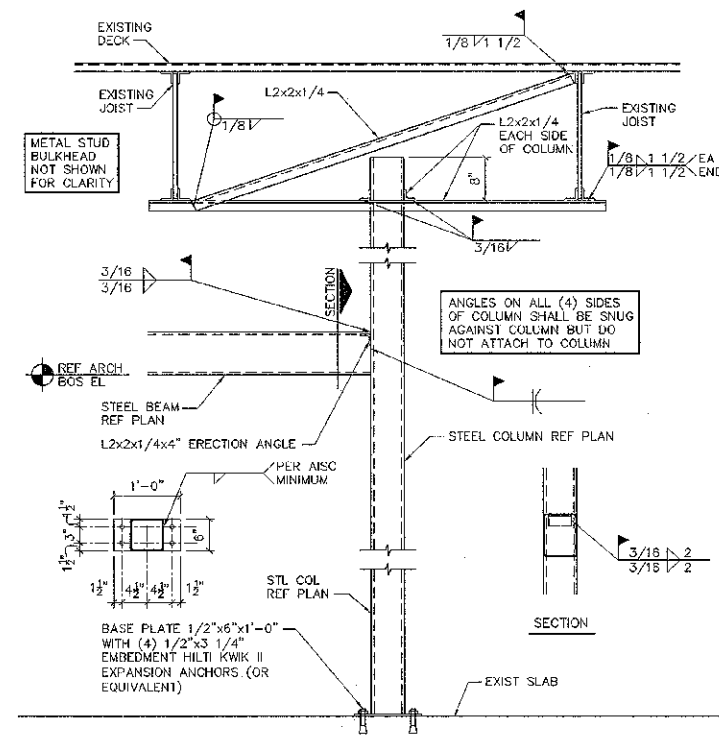


CONTRACTOR NOTE: BRIDGING AND WEB MEMBERS ARE NOT DESIGNED FOR LOADS OTHER THAN AXIAL. NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. ALL LOAD ATTACHMENT SHALL BE TO JOIST CHORDS ONLY.

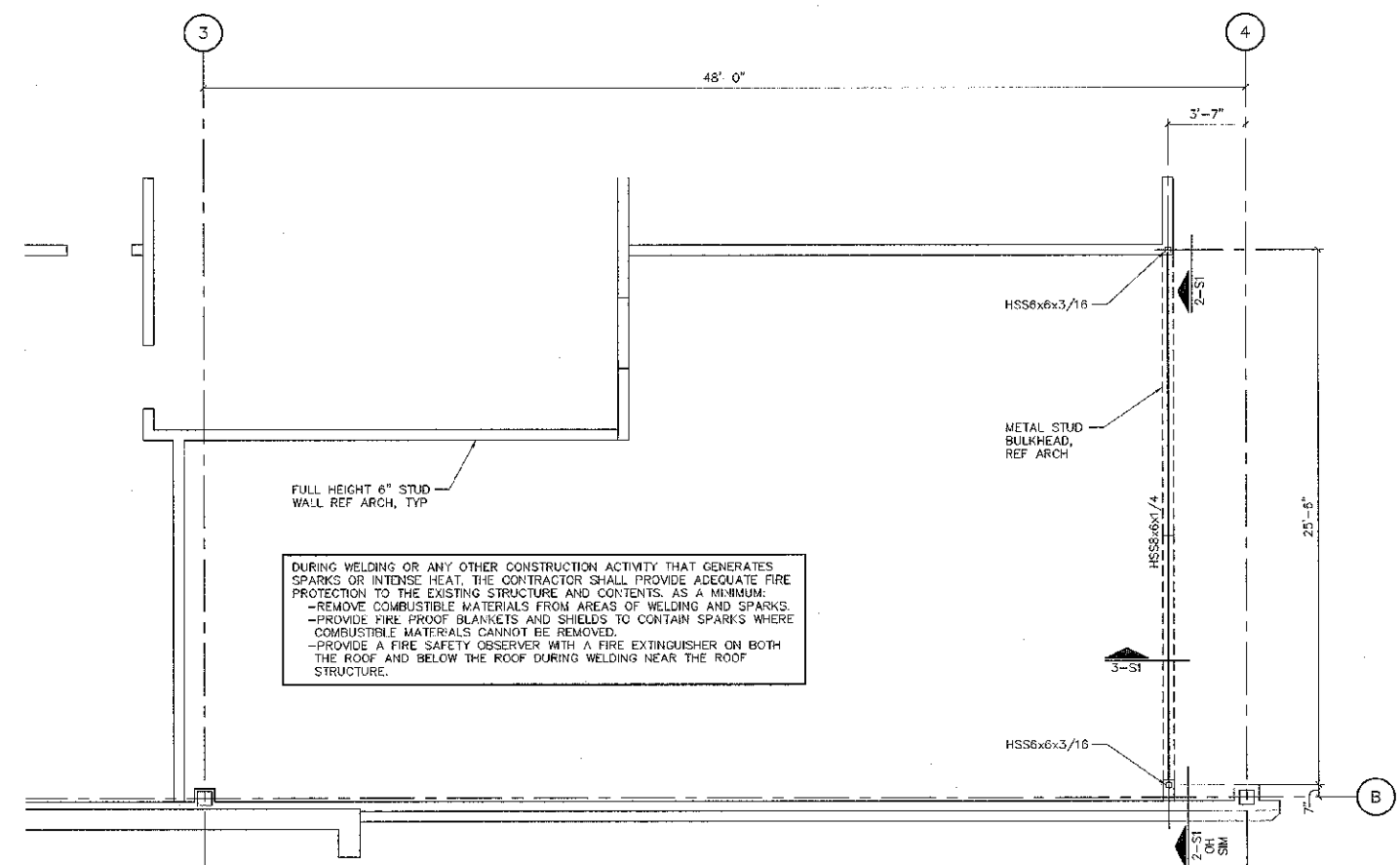


4 JOIST REINFORCING
3/4" = 1'-0"

3 BULKHEAD DETAIL
3/4" = 1'-0"



2 BULKHEAD BEAM TO COLUMN/COLUMN TO SLAB CONNECTION
3/4" = 1'-0"



1 LOWER FRAMING PLAN
1/4" = 1'-0"



STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT THE LOCATION AND DATE SHOWN HEREON. IT IS THE USER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND TO VERIFY THE ACCURACY OF ALL INFORMATION PROVIDED BY THE ARCHITECT/ENGINEER. THE USER'S RESPONSIBILITY IS NOT TO BE LIMITED BY THE SIZE OF ANY PROJECT OR THE NUMBER OF REVISIONS OR THE DATE OF THIS DRAWING. THE USER'S RESPONSIBILITY IS NOT TO BE LIMITED BY THE SIZE OF ANY PROJECT OR THE NUMBER OF REVISIONS OR THE DATE OF THIS DRAWING.

WAL-MART GENERAL REMODEL SMITHFIELD, NC
STORE NO. 1321 DOC. DATE: 02/22/07
JOB NUMBER: 007040

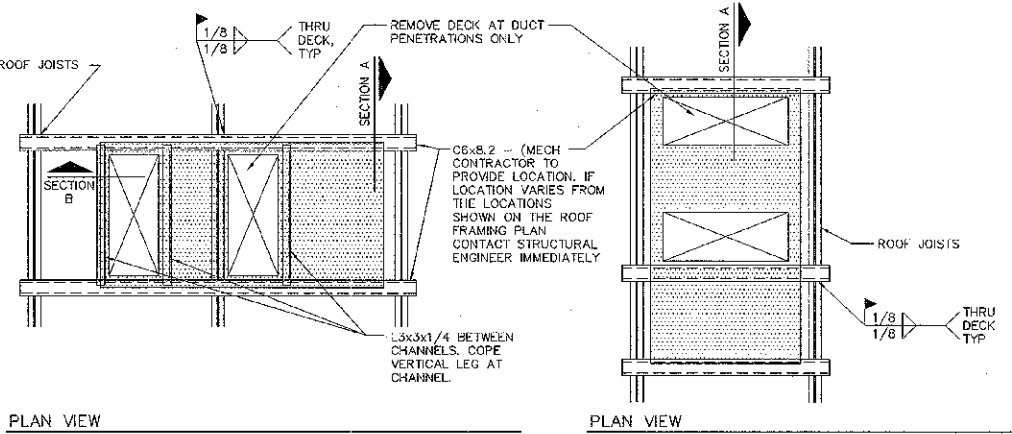
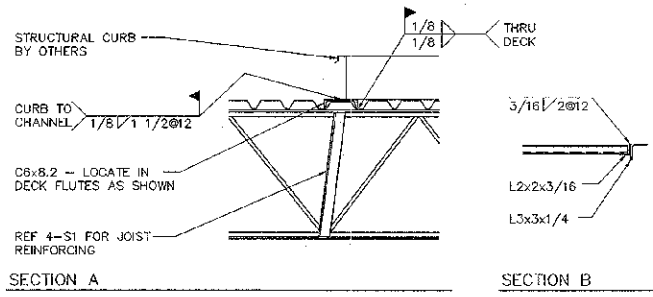
ISSUE BLOCK	

CHECKED BY: DJF
DRAWN BY: MCS
DOCUMENT DATE: 02/22/07
PHOTO: 188 SC
PHOTO CYCLE: 10/25/06

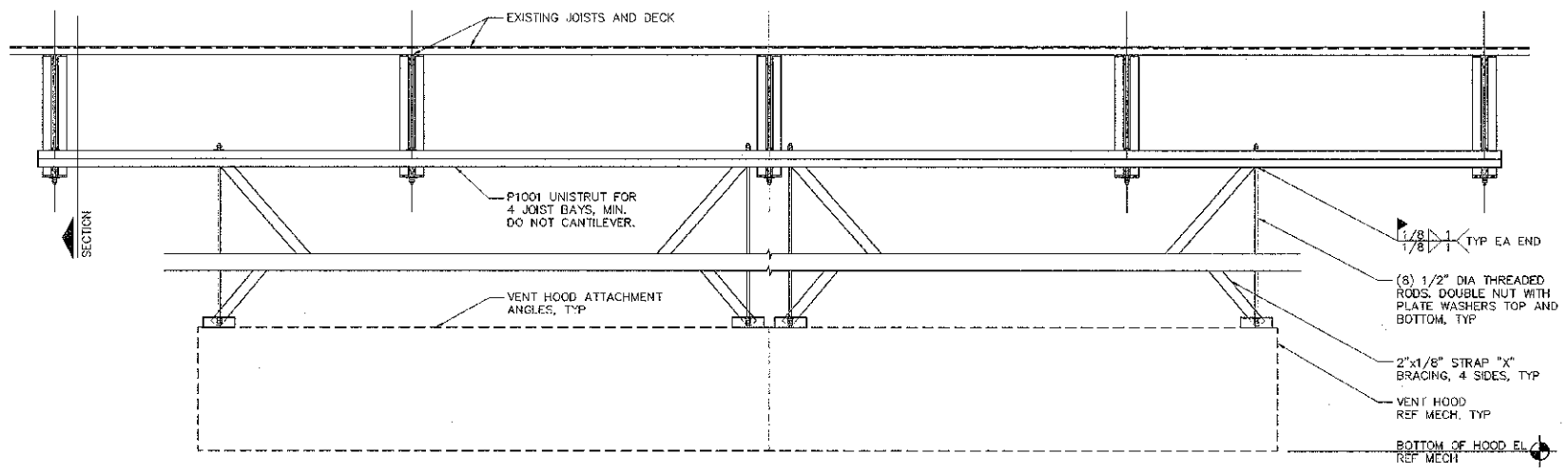
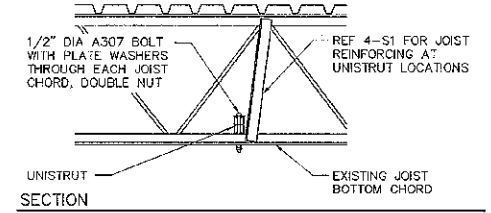
FRAMING PLAN GENERAL NOTES AND DETAILS

SHEET: **S1**

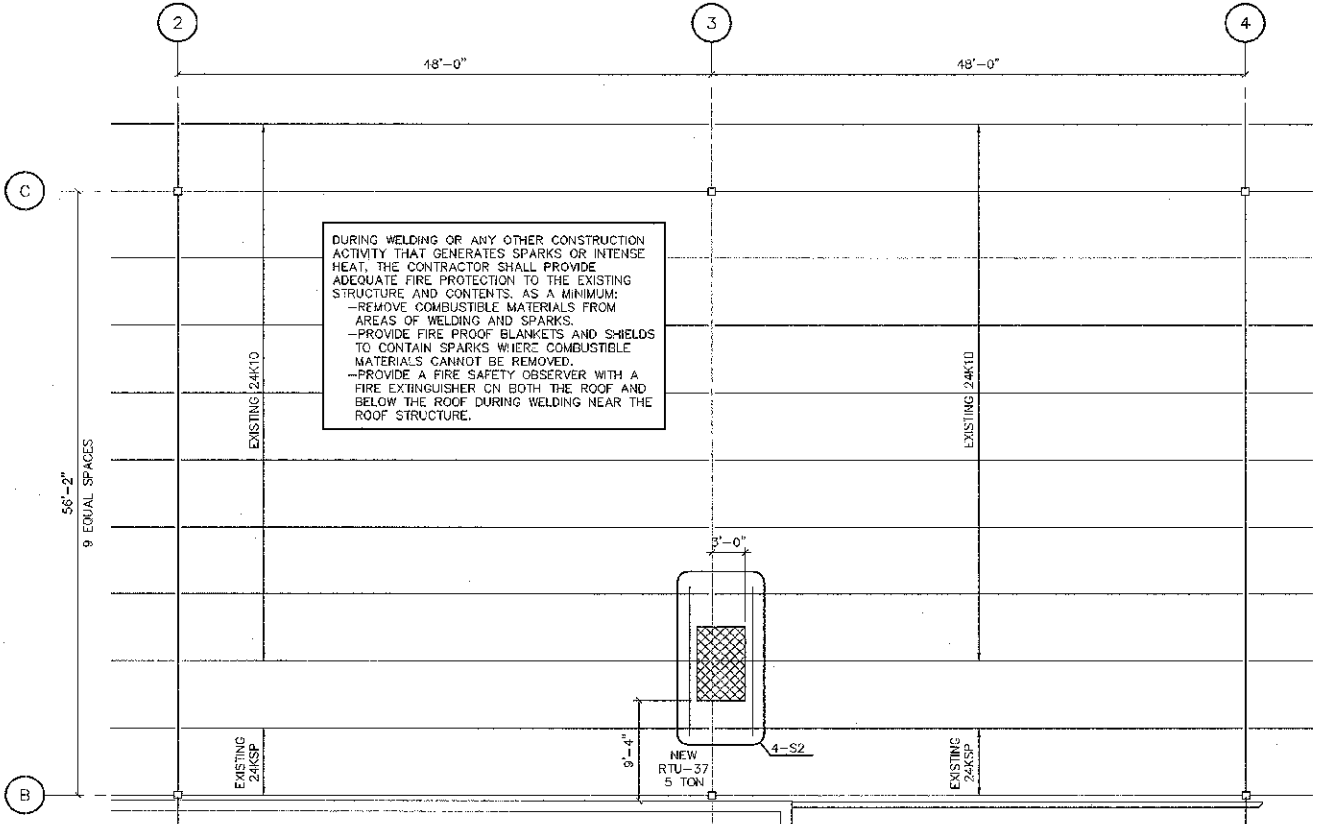
ROOF TOP UNIT SUPPORT NOTES:
 1. INSTALL C6x8.2'S OVER DECK.
 2. POSITION CURB OVER CHANNELS AND LOCATE REQUIRED DUCT PENETRATIONS THRU ROOF.
 REF MECHANICAL DRAWINGS FOR EXACT SIZES.
 3. REMOVE DECK AT DUCT PENETRATION LOCATIONS AS REQUIRED. FIELD WELD NEW DECK SUPPORT ANGLES BETWEEN CHANNELS. DECK SUPPORT ANGLE MAY BE OMITTED IF EDGE OF PENETRATION IS WITHIN 6 INCHES OF A JOIST.



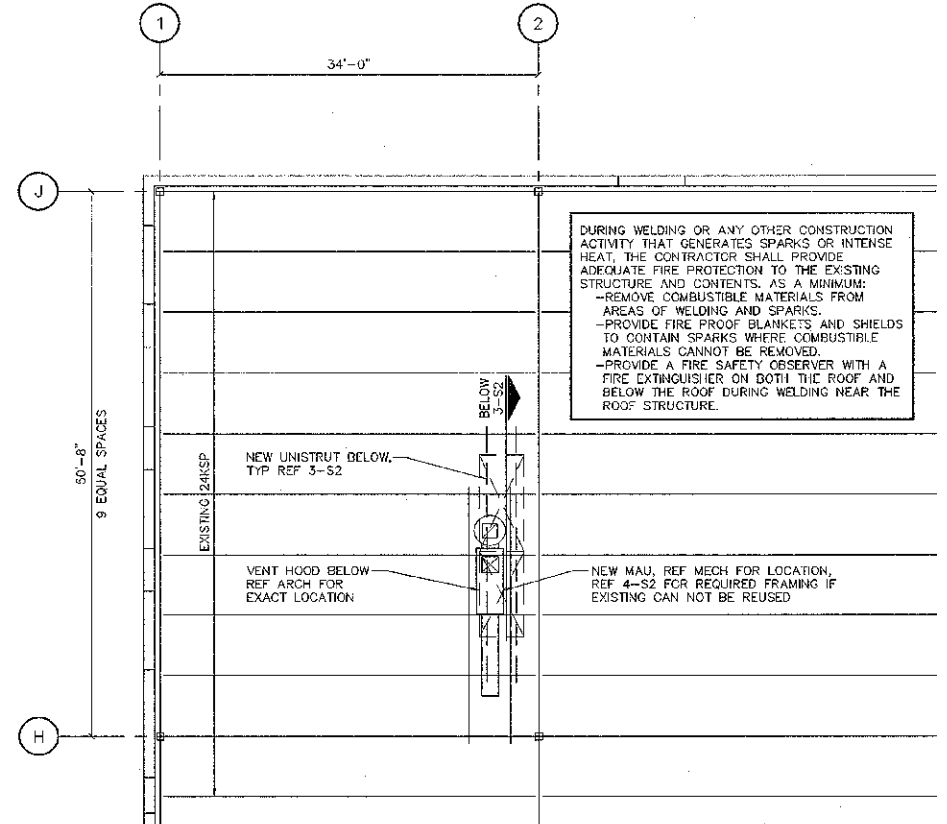
4 RTU/MAKE-UP AIR FRAMING PLAN
 NTS



3 VENT HOOD SECTION
 3/4" = 1'-0"



2 RTU FRAMING PLAN
 1/8" = 1'-0"



1 VENT HOOD FRAMING PLAN
 1/8" = 1'-0"



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WALMART GENERAL REMODEL
 SMITHFIELD, NC
 STORE NO. 1321 DOC. DATE: 02/22/07
 JOB NUMBER: 070700

ISSUE BLOCK

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 DOCUMENT DATE: 02/22/07
 PRTO: 188 SG
 PRTO CYCLE: 10/25/06

FRAMING PLANS AND DETAILS

SHEET: S2

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