

- FOUNDATION PLAN NOTES**
- INDICATES BUILDING ELEVATION
  - INDICATES COLUMN ABOVE
  - DO NOT SCALE DRAWINGS. CONTACT ARCHITECT OR ENGINEER FOR DISCREPANCIES OR MISSING DIMENSIONS

S.K. PEIGHTAL ENGINEERS WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW GUIDANCE OF S.K. PEIGHTAL ENGINEERS WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

**S.K.P.E**  
 S K PEIGHTAL ENGINEERS  
 76 SUNSET DRIVE UNIT 4  
 BASALT, COLORADO 81621  
 PHONE: (970) 927-9510  
 FAX: (970) 927-0597

**B & B WELDING SHOP**  
 GARFIELD COUNTY, CO

ISSUE:	
4/21/04	CONCEPTUAL LAYOUT
6/11/05	PERMIT
8/11/05	PROGRESS
9/20/05	COORDINATION

JOB# 04034  
 SHEET:

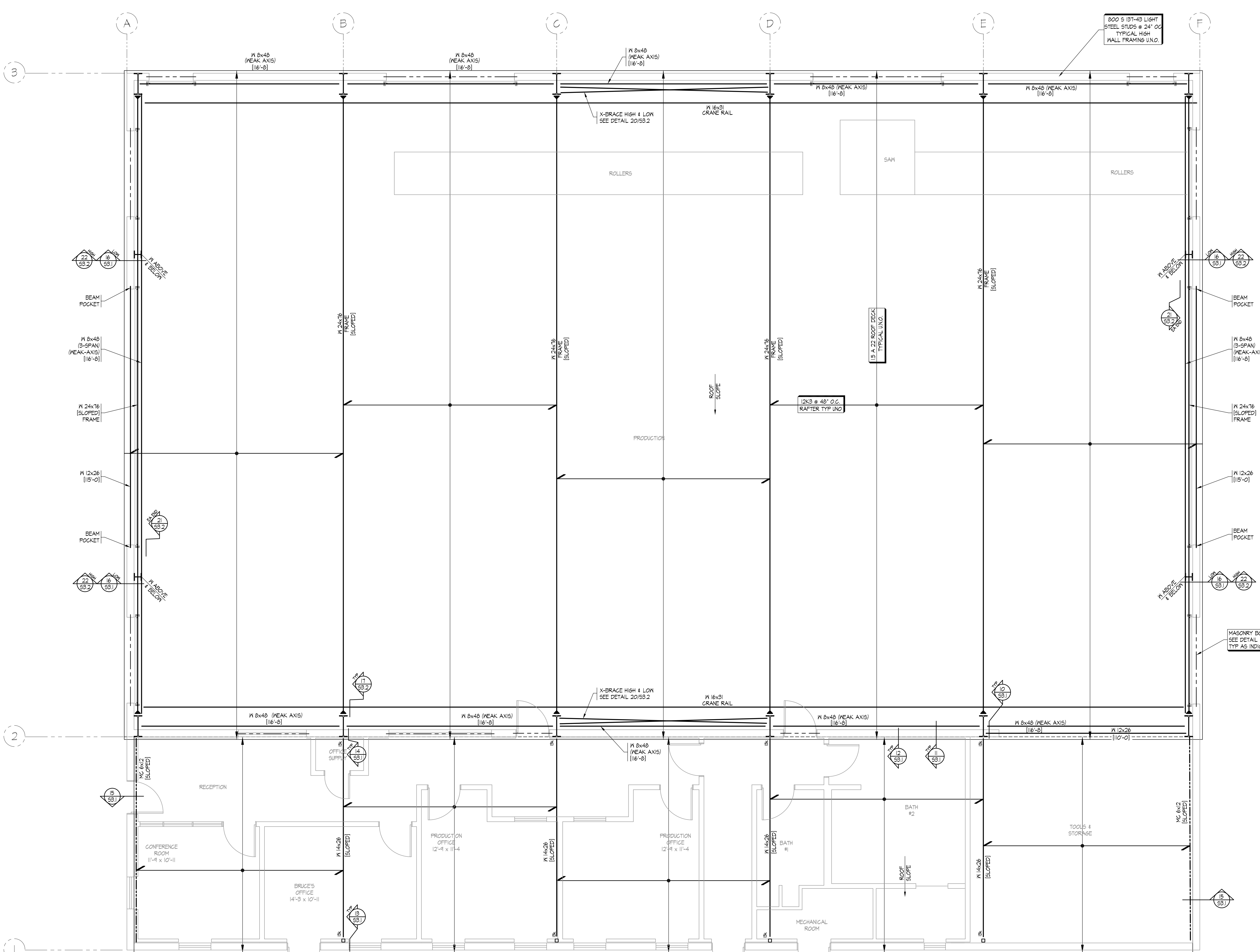
**S1.1**

STEEL BASEPLATES  
 SEE DETAIL  
 7/53.1

COORDINATE ALL  
 OPENING REQUIREMENTS  
 WITH OWNER

**FOUNDATION PLAN**  
 @ 1/4" = 1'-0"

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- ROOF FRAMING PLAN NOTES**
1. or COLUMN BELOW
  2. RAFTER BEARING
  3. [XXX'-XX'] TOP OF BEAM ELEVATION
  4. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT OR ENGINEER FOR DISCREPANCIES OR MISSING DIMENSIONS

800 S 137-43 LIGHT  
STEEL STUDS @ 24" O.C.  
TYPICAL HIGH  
WALL FRAMING UNO.

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RESPONSIBILITY AND LIABILITY  
FOR PROBLEMS WHICH ARISE  
FROM FAILURE TO FOLLOW  
THESE PLANS AND THE DESIGN  
INTENT THEY CONVEY, OR FOR  
PROBLEMS WHICH ARISE FROM  
OTHERS' FAILURE TO OBTAIN  
AND/OR FOLLOW GUIDANCE OF  
S.K. PEIGHTAL ENGINEERS WITH  
RESPECT TO ANY ERRORS,  
OMISSIONS, INCONSISTENCIES,  
AMBIGUITIES, OR CONFLICTS  
WHICH ARE ALLEGED.

MASONRY BOND BEAM  
SEE DETAIL 14/53.2  
TYP AS INDICATED

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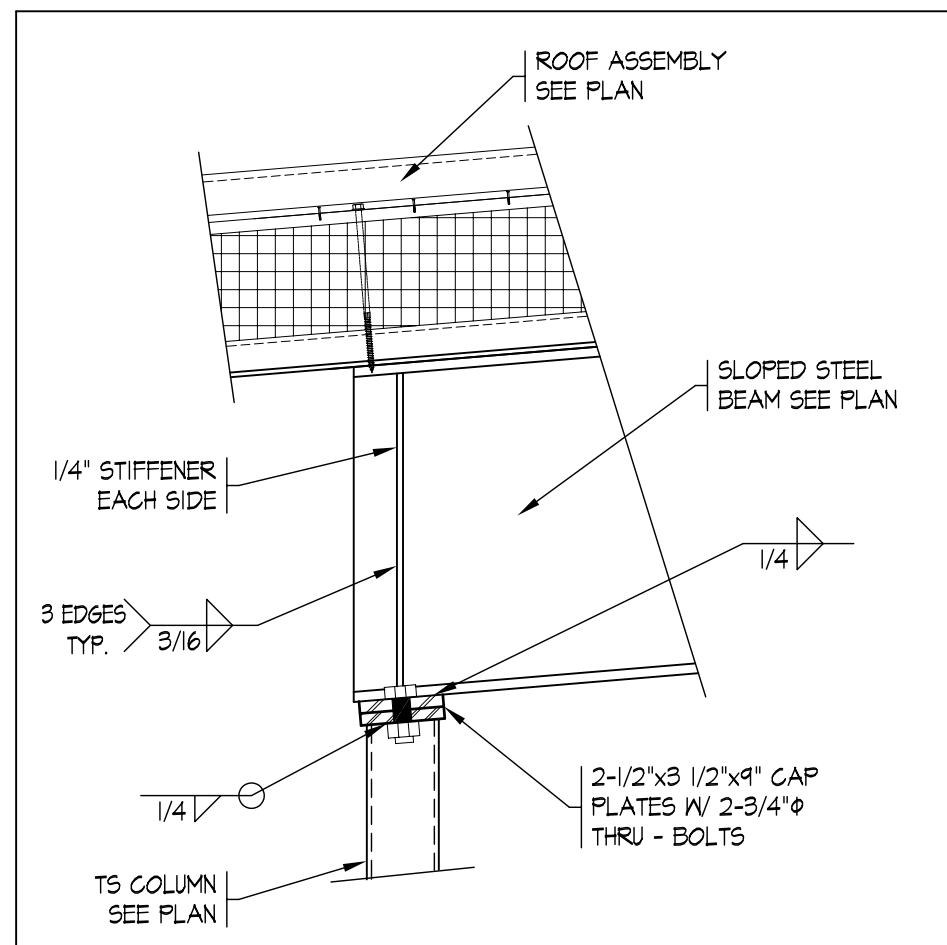
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**S2.1**

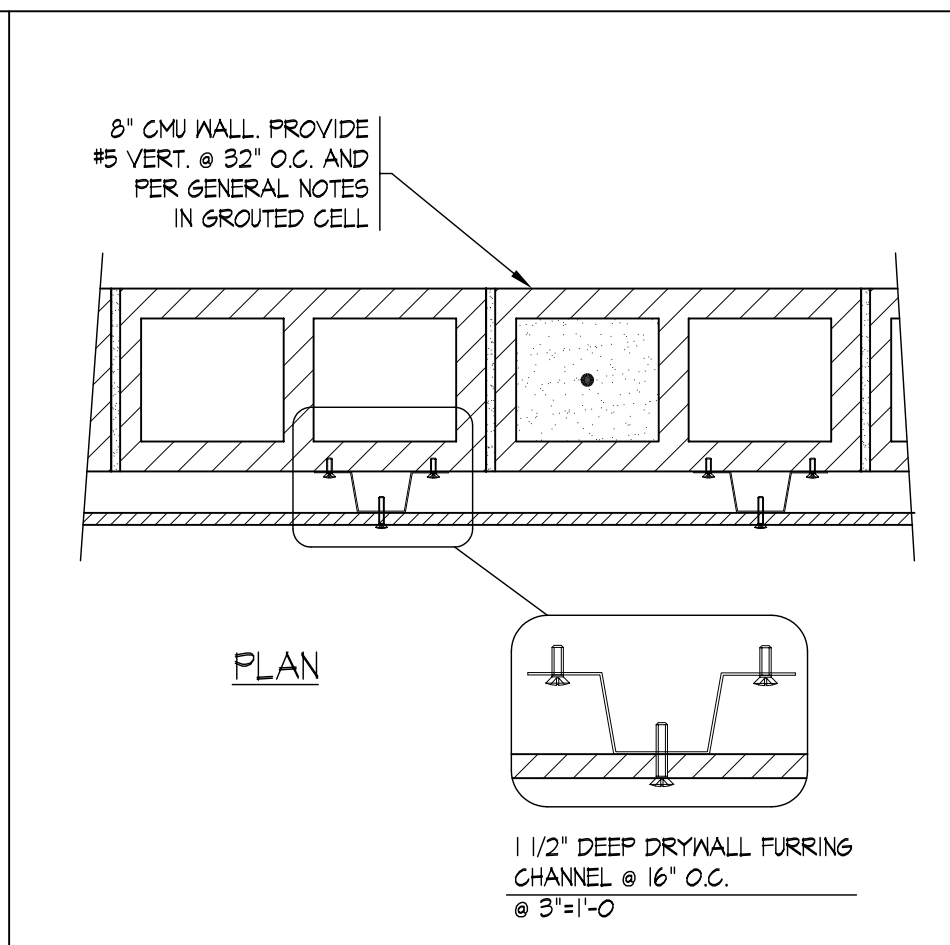
**ROOF FRAMING PLAN**  
@ 1/4" = 1'-0"



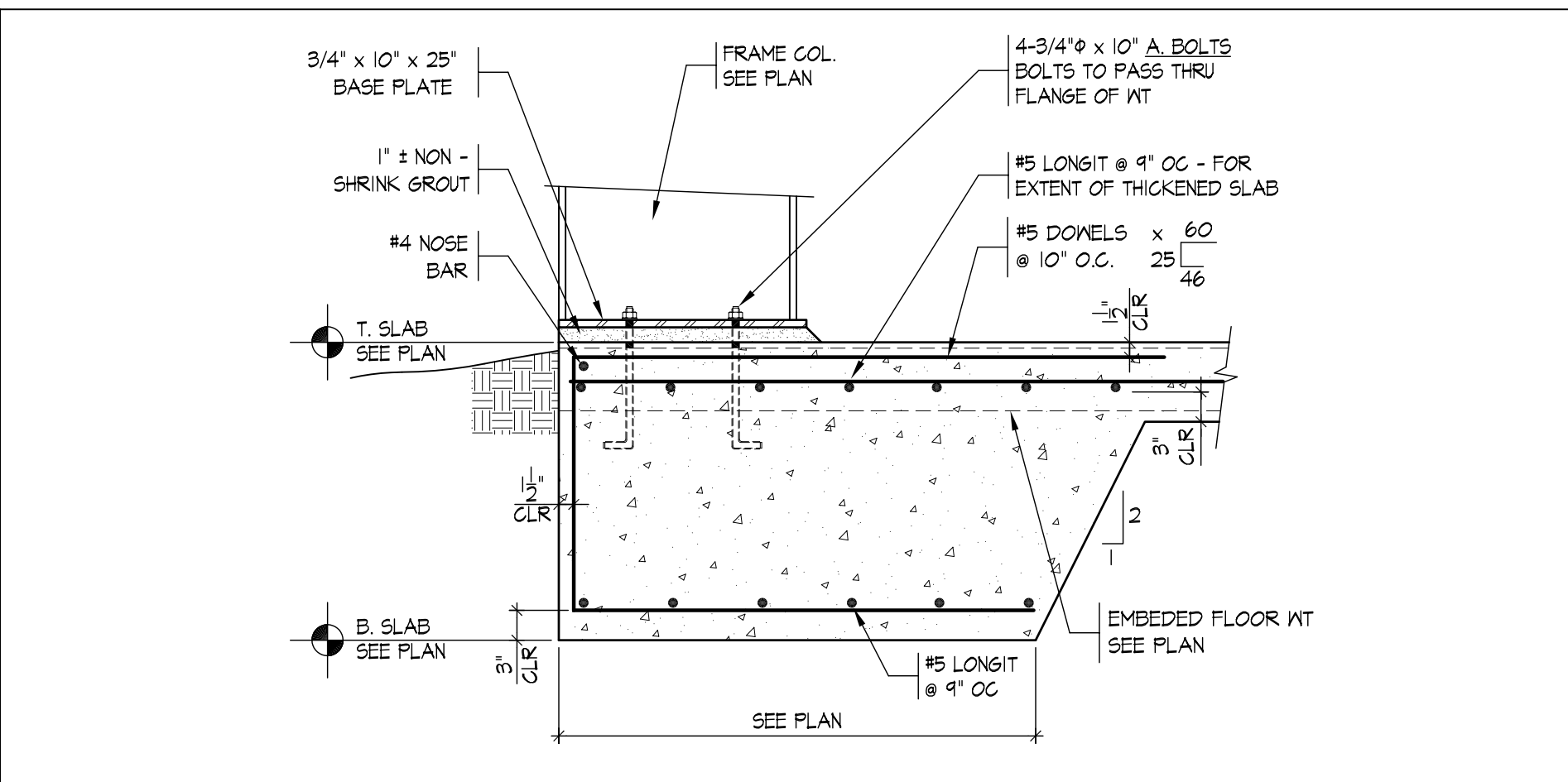
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**13 BEAM BEARING**  
@ 1/2" = 1'-0" 04034



**9 FURRED WALL**  
@ 1/2" = 1'-0" 04034



**2 FRAME COLUMN SUPPORT**  
@ 3/4" = 1'-0" 04034

GENERAL NOTES  
B&B WELDING SHOP  
20 JUNE 2005

A. DESIGN LIVE LOADS  
1. SNOW 40 psf  
2. LIGHT MANUFACTURING 125 psf  
3. MIN. BASIC WIND SPEED EXPOSURE 90 mph  
4. SEISMIC CATEGORY C

B. DESIGN CODES  
1. INTERNATIONAL BUILDING CODE (2003)  
2. AISC BUILDING CODE (AISC 308-05)  
3. AISC STEEL CONSTRUCTION MANUAL (9th EDITION)

C. FOUNDATION  
BUILDING FOUNDATION SYSTEM HAS BEEN DESIGNED USING AN ASSUMED MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF AND A PASSIVE EQUIVALENT FLUID LATERAL EARTH PRESSURE OF 45 PCF. FOOTINGS MUST BE PLACED ON UNDISTURBED SOIL. SOILS ARE ASSUMED TO BE UNIFORM, NON-EXPANSIVE, AND NON-COMPRESSIVE. THE OWNER SHALL RETAIN A SOILS ENGINEER TO INSPECT THE BEARING SOILS EXPOSED DURING EXCAVATION TO VERIFY ASSUMPTIONS AND TO SUBMIT A WRITTEN REPORT. NO FOOTINGS SHALL BE POURED UNTIL A VERBAL SUMMARY HAS BEEN GIVEN TO THE STRUCTURAL ENGINEER BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL ALSO BE CONSULTED BY THE OWNER IN REGARDS TO POSSIBLE FOUNDATION DRAINAGE REQUIREMENTS AND ANY ADDITIONAL CONSTRUCTION REQUIREMENTS AFFECTED BY SOILS.

D. FOUNDATION  
BUILDING TO BE FOUNDED ON A FOUNDATION SYSTEM DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. SPREAD FOOTINGS MUST BEAR ON UNDISTURBED NATURAL SOILS. SEE SOILS INVESTIGATION REPORT NO. 105 866, OCTOBER 12, 2005, BY HEPNORTH-PANLAK GEOTECHNICAL, INC., GLENWOOD SPRINGS, COLORADO, FOR ADDITIONAL SOIL DATA AND CONSTRUCTION REQUIREMENTS. A REPRESENTATIVE OF THE SOILS ENGINEER SHOULD OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO CONCRETE PLACEMENT TO EVALUATE BEARING CONDITIONS. PROVIDE FOUNDATION DRAIN AND DETERMINING AS RECOMMENDED BY THE SOILS ENGINEER.

E. CONCRETE MASONRY  
ALL CMU SHALL CONFORM TO ASTM C90. CMU USED BELOW GRADE AND ALL EXTERIOR WALLS SHALL BE GRADE N-1. INTERIOR CONCRETE MASONRY UNITS NOT EXPOSED TO WEATHER OR EARTH MAY BE GRADE N-1 OR S-1. ALL MORTAR FOR EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL CONFORM TO ASTM 210, TYPE S. GROUT FOR MASONRY BOND BEAMS AND PILLARS SHALL BE MADE WITH STONE AGGREGATE AND SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS. ALL MASONRY SHALL DEVELOP 1550 PSI ULTIMATE COMPRESSIVE STRENGTH (f<sub>m</sub>) IN 28 DAYS. ROOF GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN FIVE MINUTES LATER. ALL CMU DESIGN IS BASED ON VALUES NOT REQUIRING SPECIAL INSPECTION UNLESS NOTED OTHERWISE ON THE PLANS. WHERE INSPECTION IS REQUIRED, THE OWNER SHALL ENGAGE A QUALIFIED, INDEPENDENT TESTING AND INSPECTING AGENCY TO ASSURE THE QUALITY OF THE MATERIALS USED AND THE ACCURACY OF THE INSTALLATION. PLACE CONTROL JOINTS IN CMU WALLS MAXIMUM 24'-0" O.C. EXCEPT CMU FOUNDATION WALLS.

HORIZONTAL REINFORCING SHALL BE STANDARD "DUR-O-WAL" OR AUTHORIZED EQUIVALENT SPACED AT 16" O.C. EXCEPT AS NOTED. VERTICAL REINFORCING SHALL EXTEND FOR THE FULL HEIGHT OF THE WALL IN GROUTED CELLS. GROUT LIFTS SHALL NOT EXCEED 4'-0" IN HEIGHT. ALL REINFORCING SHALL DEVELOP 1350 PSI ULTIMATE COMPRESSIVE STRENGTH (f<sub>m</sub>) IN 28 DAYS. ROOF GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN FIVE MINUTES LATER. ALL CMU DESIGN IS BASED ON VALUES NOT REQUIRING SPECIAL INSPECTION UNLESS NOTED OTHERWISE ON THE PLANS. WHERE INSPECTION IS REQUIRED, THE OWNER SHALL ENGAGE A QUALIFIED, INDEPENDENT TESTING AND INSPECTING AGENCY TO ASSURE THE QUALITY OF THE MATERIALS USED AND THE ACCURACY OF THE INSTALLATION. PLACE CONTROL JOINTS IN CMU WALLS MAXIMUM 24'-0" O.C. EXCEPT CMU FOUNDATION WALLS.

EXPANSION BOLTS, WHERE APPROVED BY ENGINEER, SHALL BE "HEX-IT", "RED HEAD", "KINKBOLT", OR APPROVED WEDGE TYPE, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. ALL EXPANSION BOLT DESIGN IS BASED ON VALUES NOT REQUIRING SPECIAL INSPECTION UNLESS NOTED OTHERWISE. EPOXY BOLTS, WHERE APPROVED BY ENGINEER, SHALL BE SIFSON ET, SET, OR APPROVED ADHESIVE SYSTEM, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. ALL EPOXY BOLTS REQUIRE SPECIAL INSPECTION UNLESS NOTED OTHERWISE. IT IS RECOMMENDED THAT DRILL AND EPOXY BOLTS USED IN A VERTICAL APPLICATION (I.E. THE TOP OF A CONCRETE FOUNDATION WALL), WITH NO UPLIFT LOADING, THE INSPECTION CAN BE PERIODIC. DRILL AND EPOXY BOLTS INSTALLED IN A HORIZONTAL APPLICATION (I.E. THE FACE OF A CONCRETE FOUNDATION WALL) SHOULD HAVE CONTINUOUS INSPECTION THROUGHOUT THE INSTALLATION PROCESS. CONCRETE SCREEN ANCHORS, WHERE APPROVED BY ENGINEER, SHALL BE POWERED WEDGE-BOLT ANCHORS, OR APPROVED ANCHOR SYSTEM, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. ALL SCREEN ANCHOR DESIGN IS BASED ON VALUES NOT REQUIRING SPECIAL INSPECTION UNLESS NOTED OTHERWISE.

THE OWNER SHALL ENGAGE A QUALIFIED INDEPENDENT INSPECTING AGENCY TO ASSURE ALL STRUCTURAL STEEL FRAMING IS PROPERLY INSTALLED WHERE INDICATED ABOVE.

6. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE VERIFIED AGAINST THE ARCHITECTURAL AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

H. THE ARCHITECT MUST AUTHORIZE ALL SUBSTITUTIONS. SUCH AUTHORIZATION DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.

I. COORDINATE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS.

J. DO NOT BACKFILL AGAINST WALLS UNTIL FLOOR AND ROOF SYSTEMS BRACING THOSE WALLS ARE IN PLACE.

K. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

L. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS NOR WILL THE STRUCTURAL ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.

M. COLD FORMED STEEL FRAMING  
ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.

STEEL FOR 14 AND 16 GAGE STUDS AND JOISTS, AND FOR ALL DIAGONAL TENSION STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 18 AND 20 GAGE STUDS AND JOISTS, AND FOR ALL GAGES OF TRACK, ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED AT LOCATIONS EXPOSED TO WEATHER AND WHENEVER NOTED ON THE DRAWINGS.

ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK, UNLESS NOTED OTHERWISE. PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS AND JOIST BEARINGS. ALL JOIST BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION WITH THE FOLLOWING MINIMUM REQUIREMENTS:

FOR WALLS WITH NO AXIAL LOAD, PROVIDE BRIDGING AT MID-HEIGHT FOR WALLS LESS THAN OR EQUAL TO 10'-0" HIGH, AND 5'-0" O.C. MAXIMUM FOR WALLS GREATER THAN 10'-0" HIGH. FOR AXIAL LOAD BEARING WALLS, PROVIDE BRIDGING EQUALLY SPACED AT 4'-0" MAXIMUM. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BRIDGING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

N. STEEL DECKING  
FORM DECK SHALL BE GALVANIZED (PAINTED) STEEL WITH MINIMUM YIELD STRESS OF 33 KSI. DECK SHALL BE ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AS 3 SPAN MINIMUM AND SHALL BE ATTACHED USING THE FOLLOWING MINIMUM ATTACHMENTS:

WELD DECK TO SUPPORTING MEMBERS WITH 4-1/2" DIAMETERS OR 3/8" x 3/4" PILE WELDS PER SHEET AT ENDS, LAP ENDS AND AT INTERMEDIATE SUPPORTS, AND AT 20" O.C. AT PERIMETER BEAMS AND OPENING EDGES RUNNING PARALLEL TO THE DECK. SIDE SEAM ATTACHMENT SHALL BE BUTT JOINTS AT 20" O.C. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STEEL DECK WORK AND SHALL REQUIRE SPECIAL INSPECTION. (BUILDER'S OPTION: ENP HILTI POWER ACTUATED FASTENERS AT SUPPORTS AND #10 TEK SCREEN AT SIDE LAPS. SPACING REQUIREMENTS REMAIN THE SAME AS THOSE SET FORTH ABOVE.)

O. STEEL JOISTS  
ALL JOISTS SHALL BE DESIGNED, FABRICATED, WELDED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS" OF THE STEEL JOIST INSTITUTE.

JOIST SIZES INDICATED ON PLANS ARE MINIMUMS. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOISTS, EXCEPT PARALLEL CHORD JOISTS WITH UNIFORM LOADS AND CONTINUOUSLY SUPPORTED COMPRESSION CHORDS PER SJI STANDARD LOAD TABLES. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/360. TOTAL LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/240. ALL JOISTS SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD. MANUFACTURER SHALL ADD ADDITIONAL WEB MEMBERS AS REQUIRED AND ADJUST CHORD AND WEB SIZES ACCORDINGLY, BUT SHALL NOT ALTER DEPTH OF JOISTS. DESIGN CALCULATIONS SHALL INCLUDE SUPERIMPOSED LOADS FOR FRAMING SUPPORTED EQUIPMENT, VEHICLES, SIZE, WEIGHT, AND LOCATION OF EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF COLORADO. SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE DETAILS OF ANY OPTIONAL FIELD SPLICES.

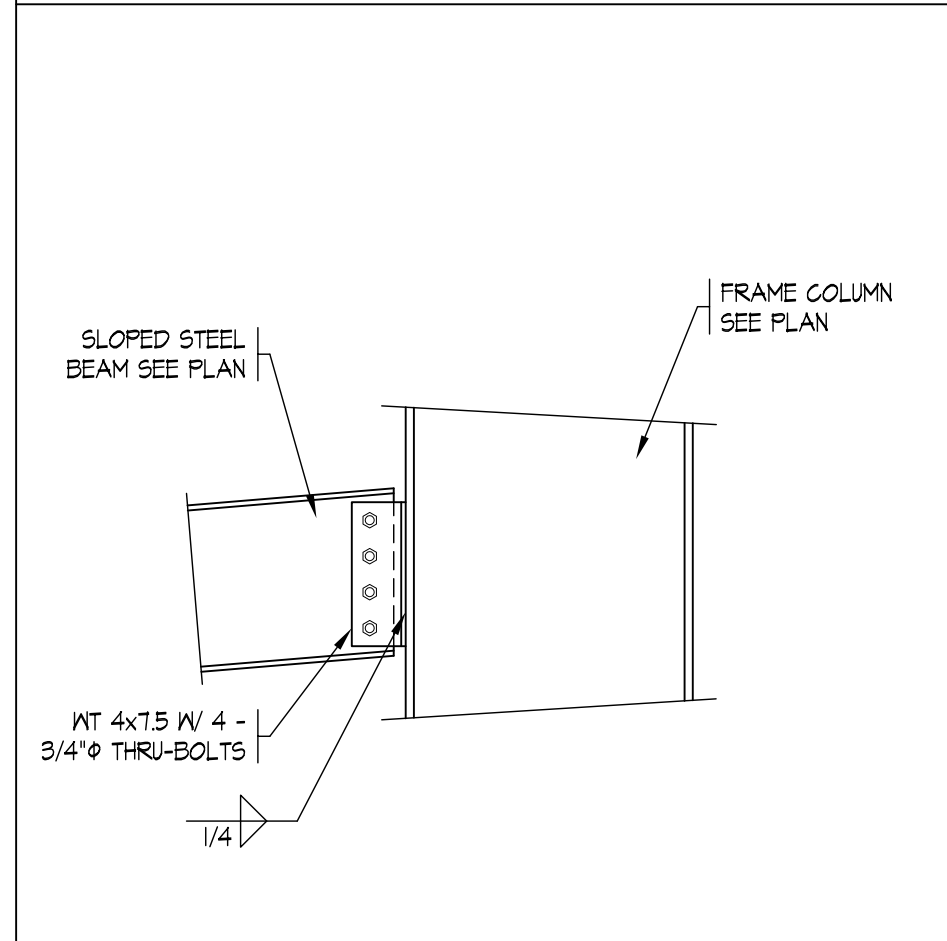
ALL STEEL JOISTS SHALL BEAR AT A PANEL POINT. JOISTS OR BEAMS TO BE EQUALLY SPACED BETWEEN COLUMN LINES - TYPICAL UNLESS NOTED OTHERWISE. PROVIDE BRIDGING AS REQUIRED, PER SJI SPECIFICATIONS. DO NOT WELD BOTTOM CHORD TO SUPPORT UNTIL FULL DEAD LOAD IS IN PLACE.

WHERE CROSS BRIDGING INTERFERES WITH MECHANICAL INSTALLATIONS, REMOVE THIS CROSS BRIDGING AFTER TOTAL DEAD LOAD IS APPLIED AND REPLACE WITH HORIZONTAL ANGLES 2"x2"x3/16" AT TOP AND BOTTOM CHORDS.

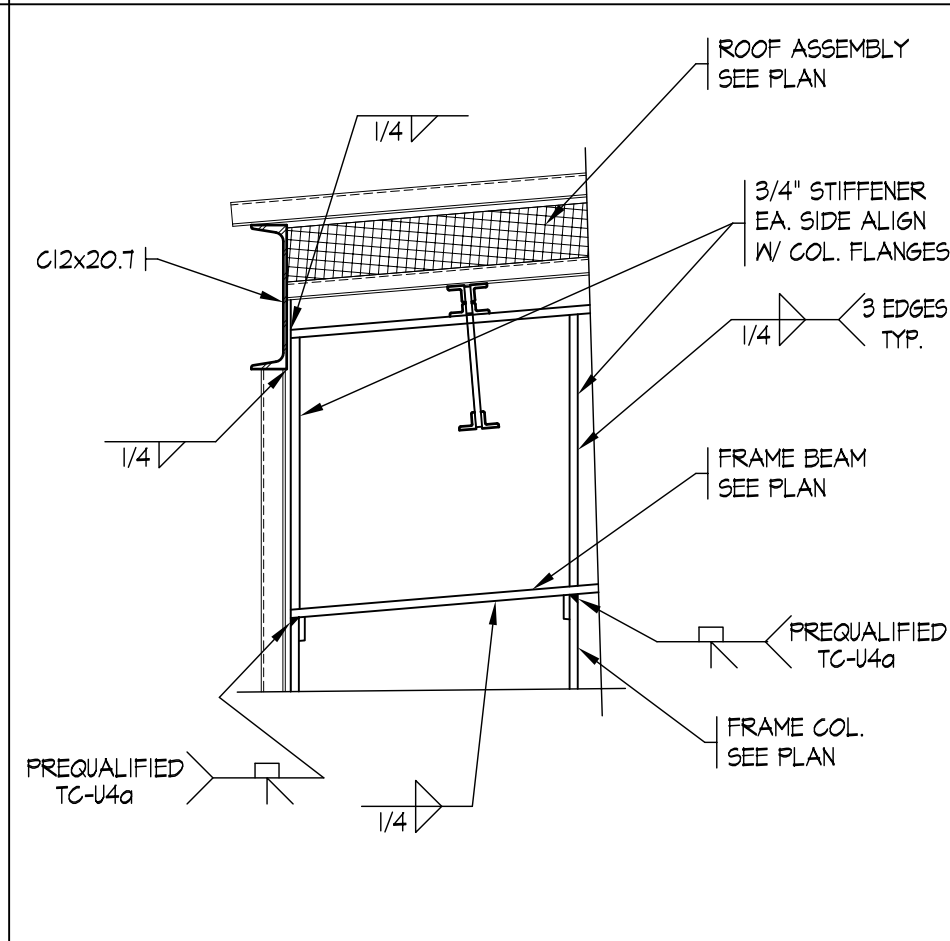
MANUFACTURER SHALL DESIGN JOISTS IN ACCORDANCE WITH THE ULL DESIGN REQUIREMENTS IN ORDER TO ACHIEVE THE FIRE RATING SPECIFIED IN ARCHITECTURAL DRAWINGS.

MANUFACTURER SHALL DESIGN JOIST SHOES WHERE BEARING LENGTH IS LESS THAN 3" AT K SERIES JOIST.

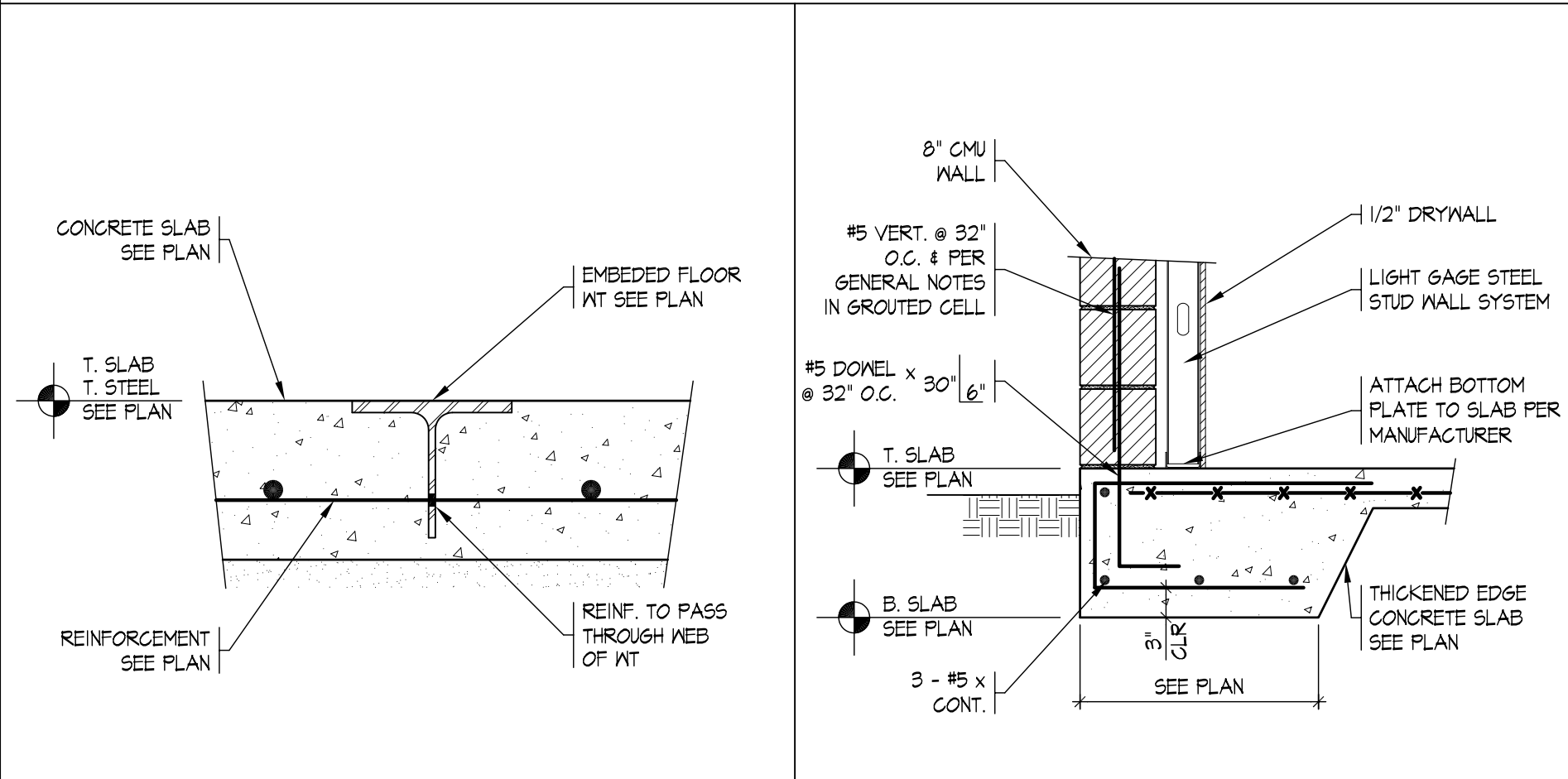
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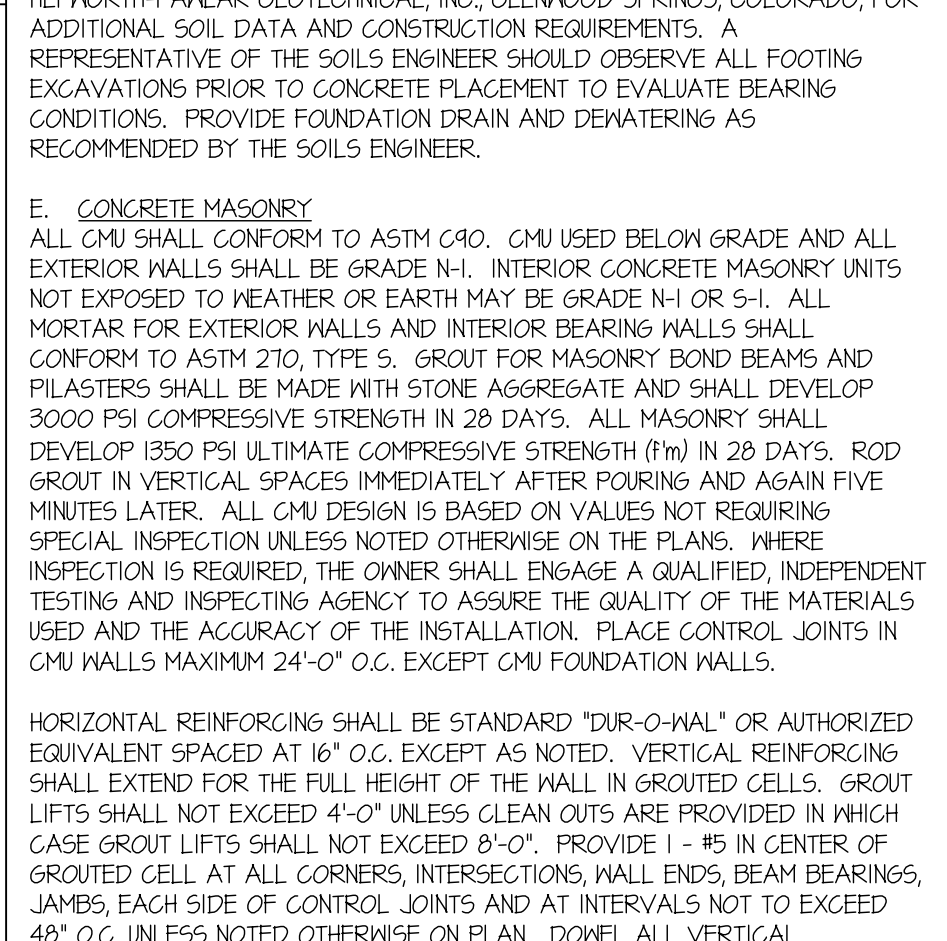
**14 BEAM HANGING**  
@ 3/4" = 1'-0" 04034



**10 FRAME CONNECTION**  
@ 3/4" = 1'-0" 04034



**6 WT AT FLOOR SLAB**  
@ 1/2" = 1'-0" 04034



**3 CMU WALL AT SLAB**  
@ 3/4" = 1'-0" 04034

F. STEEL  
ALL WIDE FLANGE STEEL SHAPES SHALL CONFORM TO ASTM A992. FOR S, M, AND HP SHAPES AND CHANNELS, STEEL SHALL CONFORM TO A36. TUBE COLLUMING SHALL CONFORM TO ASTM A500 (GRADE B) LATEST EDITION. PIPE SHAPES SHALL CONFORM TO ASTM A53 (GRADE B). ANGLES AND PLATES SHALL CONFORM TO A36. ALL SHOP CONNECTIONS SHALL BE WELDED AS INDICATED ON PLAN BY AN "APPROVED FABRICATOR" PER UBC OR UNDER SPECIAL INSPECTION WITH THE SHOP. FIELD CONNECTIONS SHALL BE STANDARD FRAMED BEAM CONNECTIONS WITH MAXIMUM NUMBER OF ASTM A325 3/4" DIAMETER BOLTS TO FIT BEAM IN SINGLE ROW AND SHALL CONFORM TO ASTM A325N BEARING-TYPE CONNECTION UNLESS OTHERWISE NOTED. ALL FIELD WELDED CONNECTIONS REQUIRE SPECIAL INSPECTION. ANCHOR BOLTS SHALL CONFORM TO ASTM A307. ALL ANCHOR BOLT DESIGN IS BASED ON VALUES NOT REQUIRING SPECIAL INSPECTION UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST PROVISIONS OF THE AISC MANUAL OF STEEL CONSTRUCTION AND AISC CODE OF STANDARD PRACTICE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL DETAIL EACH BEAM, APPLICABLE CONNECTIONS, LAYOUT, AND BRACING. USE WELDERS MEETING THE REQUIREMENTS OF THE AWS "STANDARD QUALIFICATION PROCEDURE". COMPLY WITH AWS D11 "STRUCTURAL WELDING CODE". ALL WELDS SHALL BE ETOXHL TYPICAL UNLESS NOTED OTHERWISE. PRIME ALL STEEL WITH APPROVED PRIMER. TOUCH-UP PAINT AT EXPOSED BOLTS, WELDS, AND ABRASION SHOP PAINT AREAS. DRY PACK OR GROUT FOR BEARING PLATES SHALL BE SHRINK RESISTANT EMERCO 153 OR EQUIVALENT.

FOR WALLS WITH NO AXIAL LOAD, PROVIDE BRIDGING AT MID-HEIGHT FOR WALLS LESS THAN OR EQUAL TO 10'-0" HIGH, AND 5'-0" O.C. MAXIMUM FOR WALLS GREATER THAN 10'-0" HIGH. FOR AXIAL LOAD BEARING WALLS, PROVIDE BRIDGING EQUALLY SPACED AT 4'-0" MAXIMUM. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BRIDGING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

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WELD DECK TO SUPPORTING MEMBERS WITH 4-1/2" DIAMETERS OR 3/8" x 3/4" PILE WELDS PER SHEET AT ENDS, LAP ENDS AND AT INTERMEDIATE SUPPORTS, AND AT 20" O.C. AT PERIMETER BEAMS AND OPENING EDGES RUNNING PARALLEL TO THE DECK. SIDE SEAM ATTACHMENT SHALL BE BUTT JOINTS AT 20" O.C. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STEEL DECK WORK AND SHALL REQUIRE SPECIAL INSPECTION. (BUILDER'S OPTION: ENP HILTI POWER ACTUATED FASTENERS AT SUPPORTS AND #10 TEK SCREEN AT SIDE LAPS. SPACING REQUIREMENTS REMAIN THE SAME AS THOSE SET FORTH ABOVE.)

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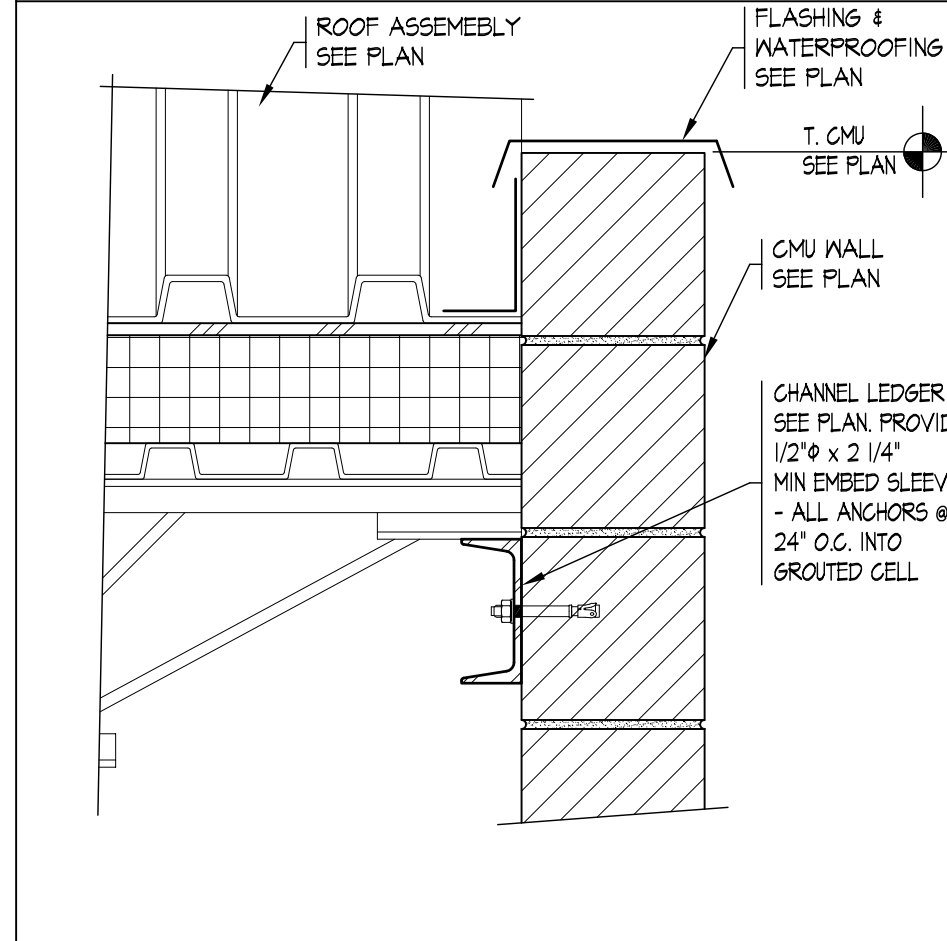
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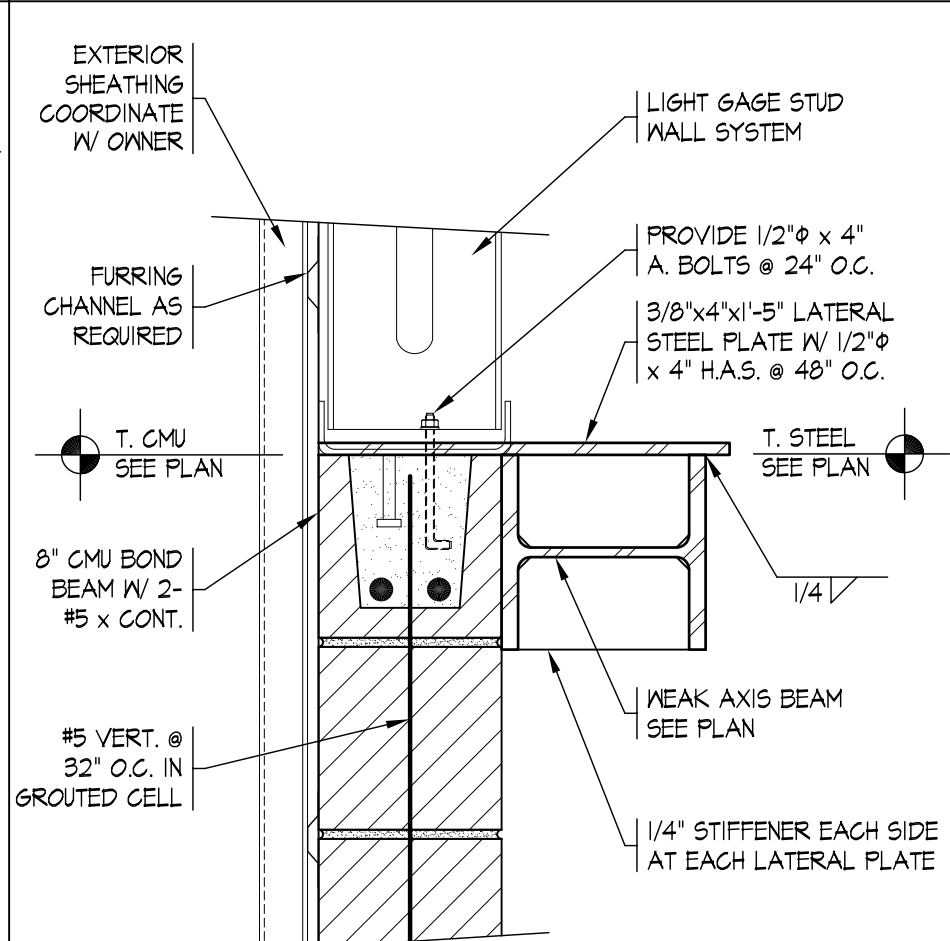
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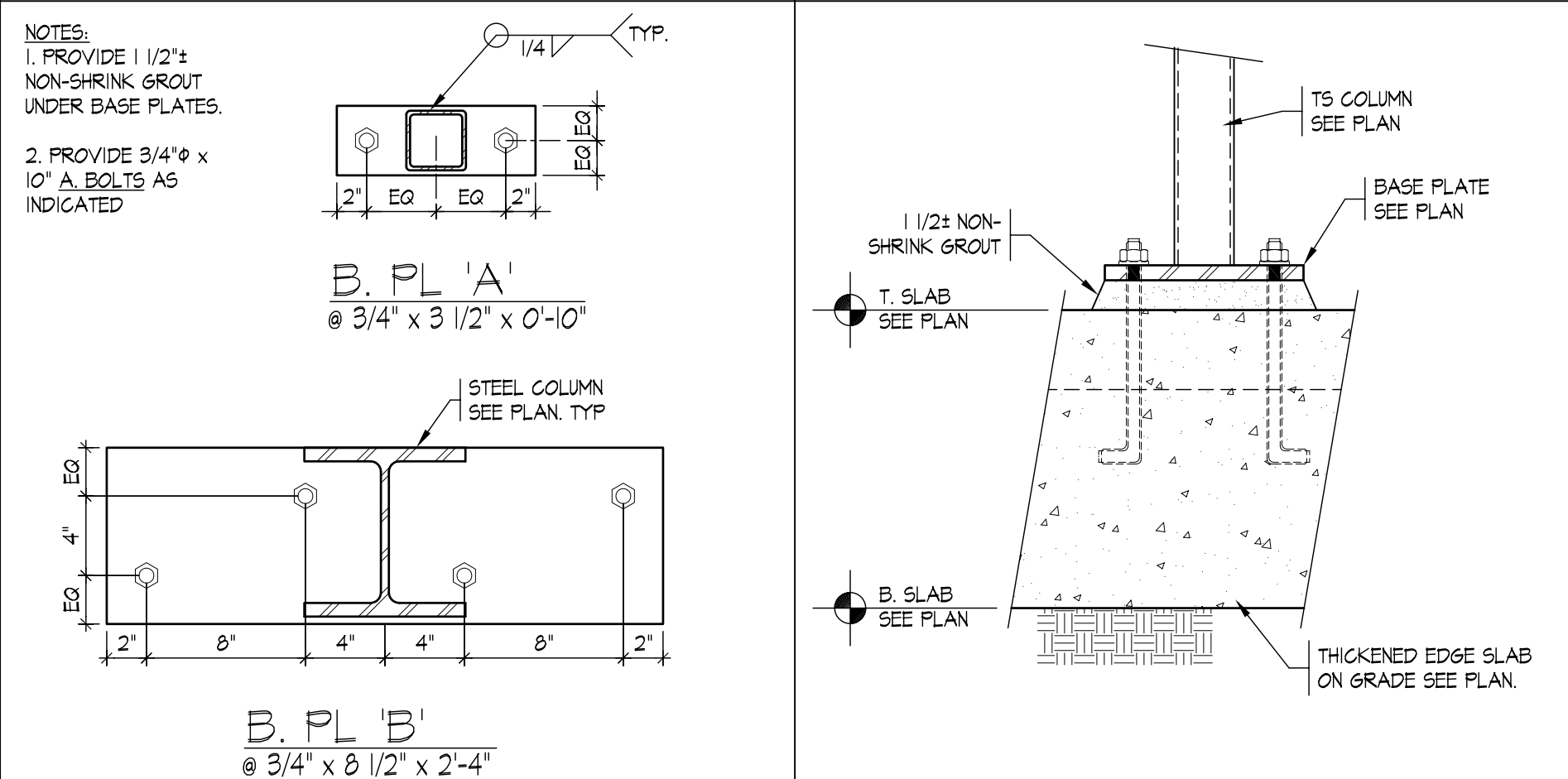
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**15 CHANNEL AT PARAPET**  
@ 1/2" = 1'-0" 04034



**11 WEAK AXIS BEAM**  
@ 1/2" = 1'-0" 04034



**7 BASEPLATES**  
@ 1/2" = 1'-0" 04034



**4 TS COLUMN SUPPORT**  
@ 1/2" = 1'-0" 04034

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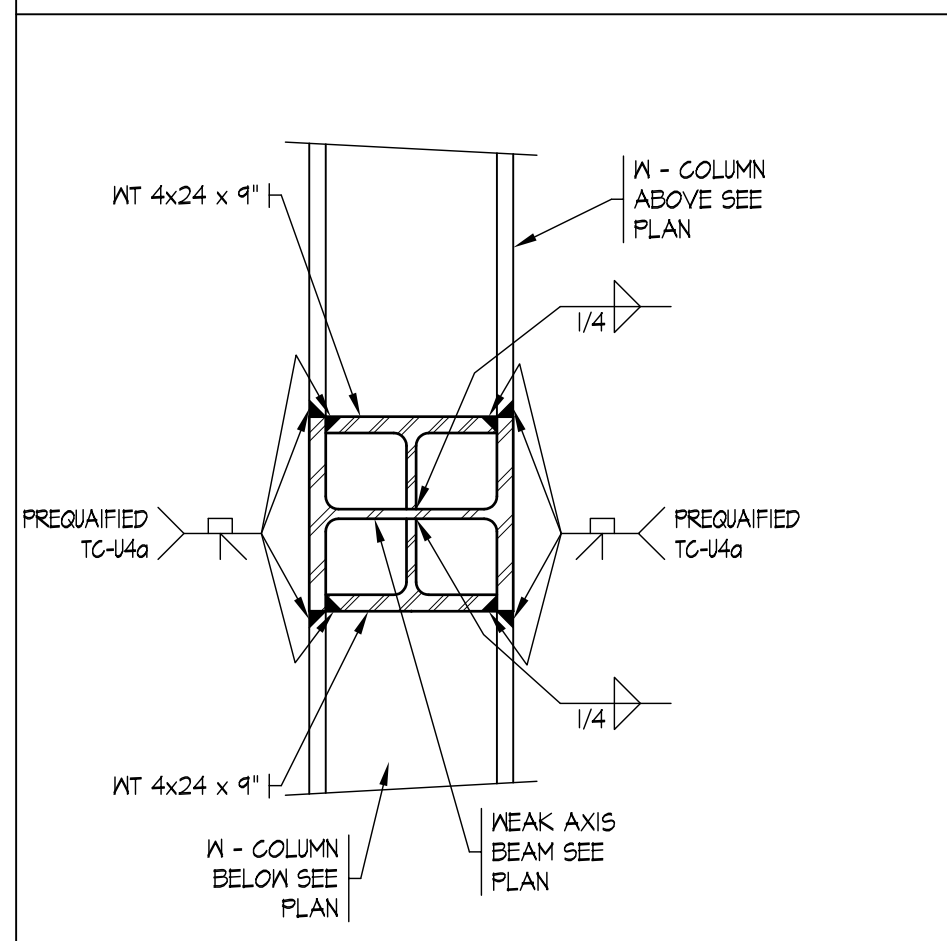
ALL STEEL JOISTS SHALL BEAR AT A PANEL POINT. JOISTS OR BEAMS TO BE EQUALLY SPACED BETWEEN COLUMN LINES - TYPICAL UNLESS NOTED OTHERWISE. PROVIDE BRIDGING AS REQUIRED, PER SJI SPECIFICATIONS. DO NOT WELD BOTTOM CHORD TO SUPPORT UNTIL FULL DEAD LOAD IS IN PLACE.

WHERE CROSS BRIDGING INTERFERES WITH MECHANICAL INSTALLATIONS, REMOVE THIS CROSS BRIDGING AFTER TOTAL DEAD LOAD IS APPLIED AND REPLACE WITH HORIZONTAL ANGLES 2"x2"x3/16" AT TOP AND BOTTOM CHORDS.

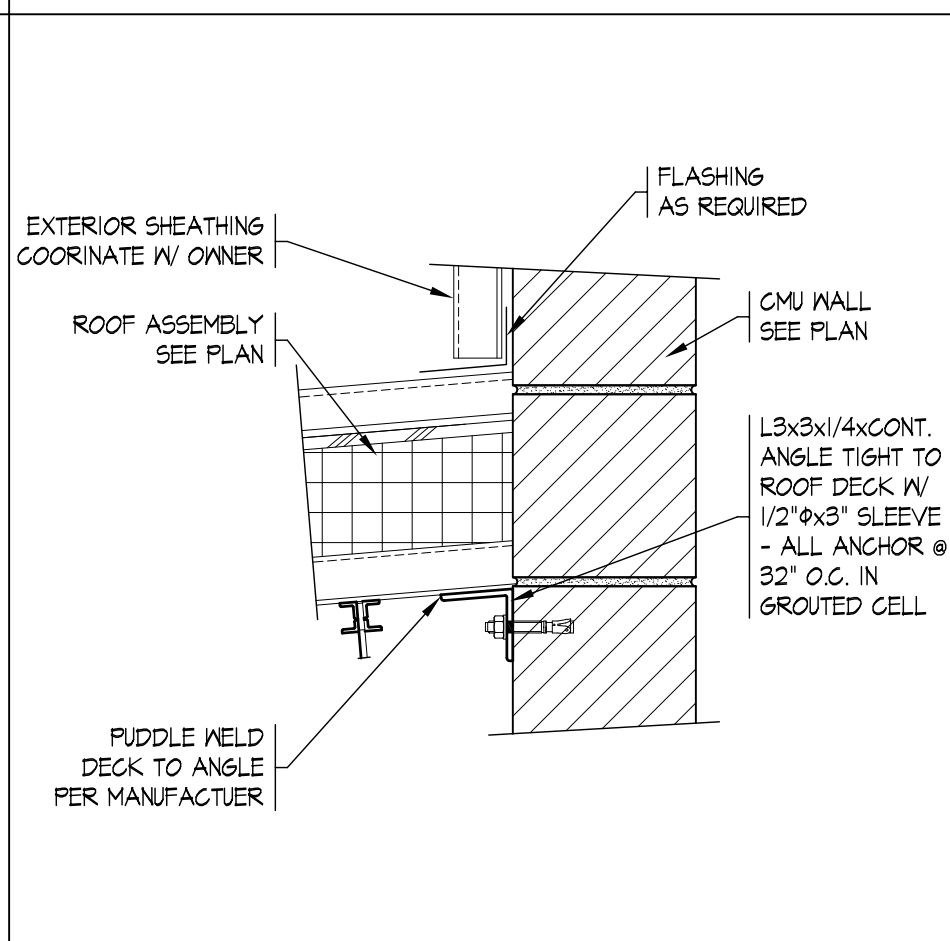
MANUFACTURER SHALL DESIGN JOISTS IN ACCORDANCE WITH THE ULL DESIGN REQUIREMENTS IN ORDER TO ACHIEVE THE FIRE RATING SPECIFIED IN ARCHITECTURAL DRAWINGS.

MANUFACTURER SHALL DESIGN JOIST SHOES WHERE BEARING LENGTH IS LESS THAN 3" AT K SERIES JOIST.

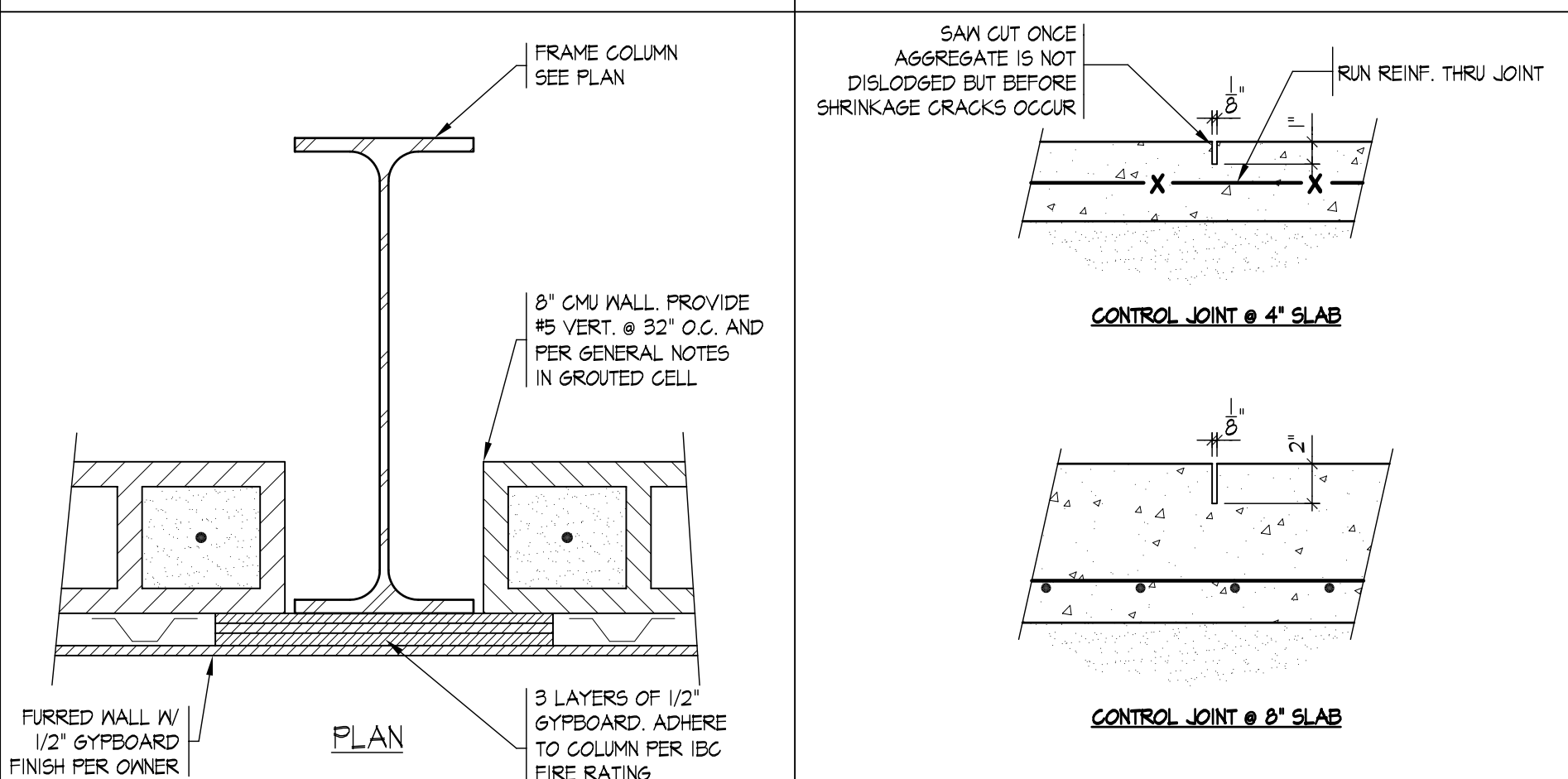
04034



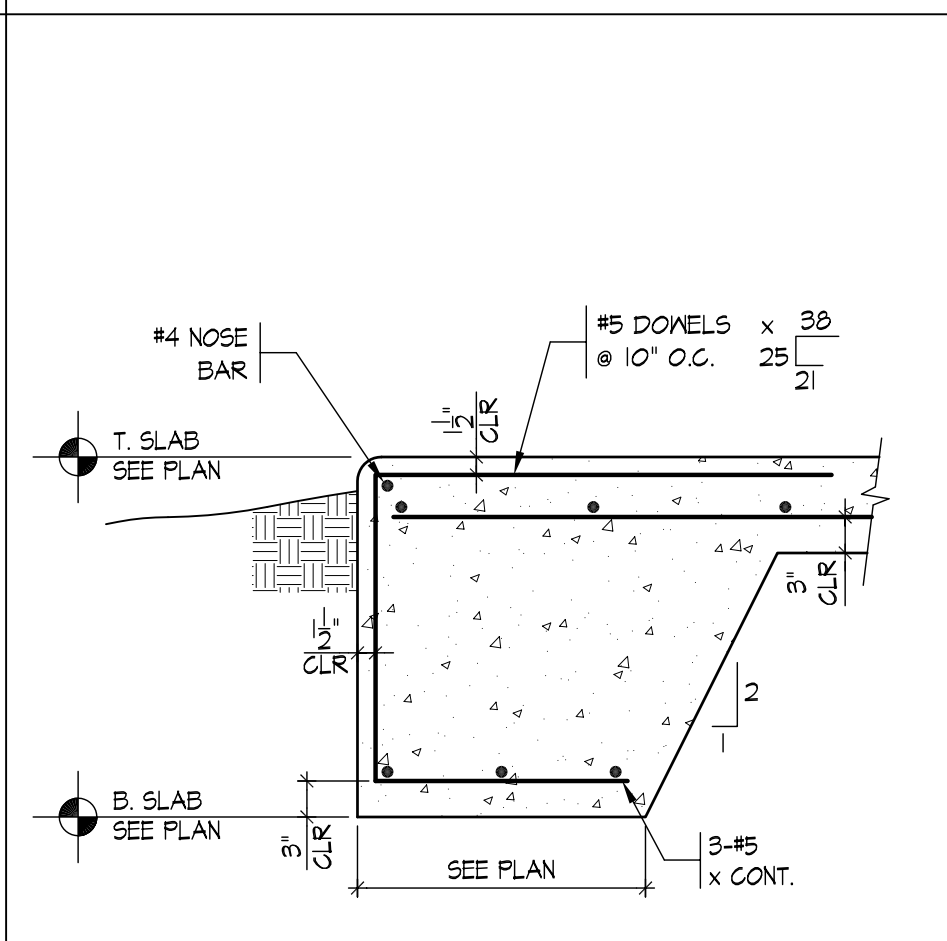
**16 MOMENT CONNECTION**  
@ 1/2" = 1'-0" 04034



**12 ROOF AT CMU WALL**  
@ 1/2" = 1'-0" 04034



**8 FIRE-RATED FRAME**  
@ 1/2" = 1'-0" 04034



**5 SLAB JOINTS**  
@ 1/2" = 1'-0" 04034

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF COLORADO. SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE DETAILS OF ANY OPTIONAL FIELD SPLICES.

ALL STEEL JOISTS SHALL BEAR AT A PANEL POINT. JOISTS OR BEAMS TO BE EQUALLY SPACED BETWEEN COLUMN LINES - TYPICAL UNLESS NOTED OTHERWISE. PROVIDE BRIDGING AS REQUIRED, PER SJI SPECIFICATIONS. DO NOT WELD BOTTOM CHORD TO SUPPORT UNTIL FULL DEAD LOAD IS IN PLACE.

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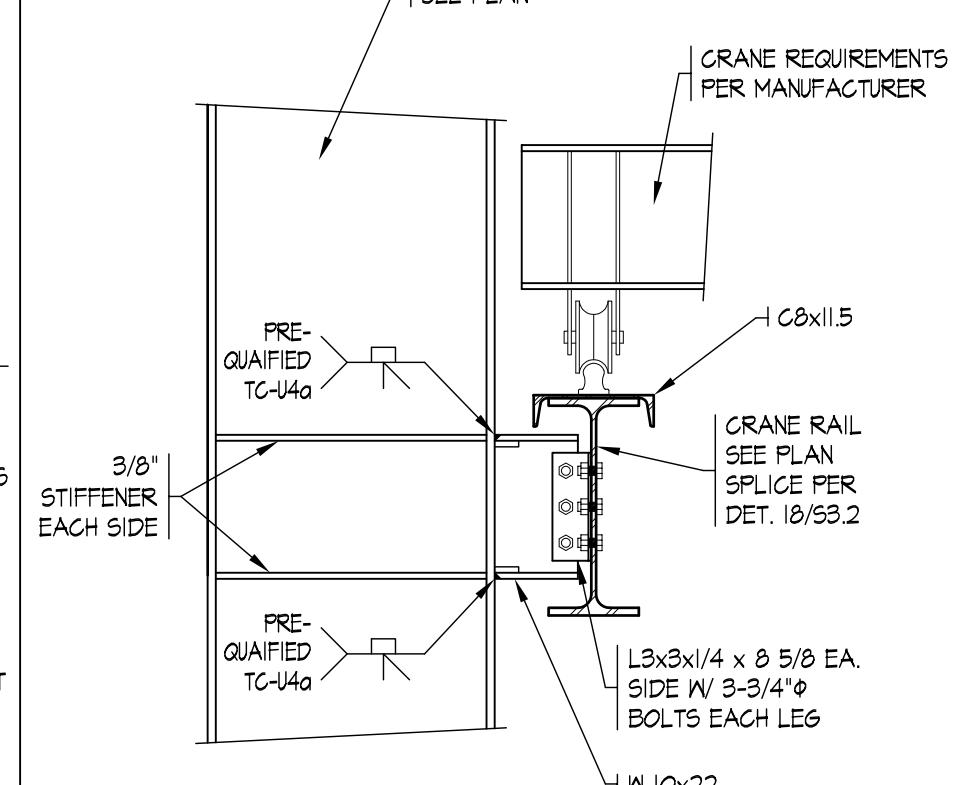
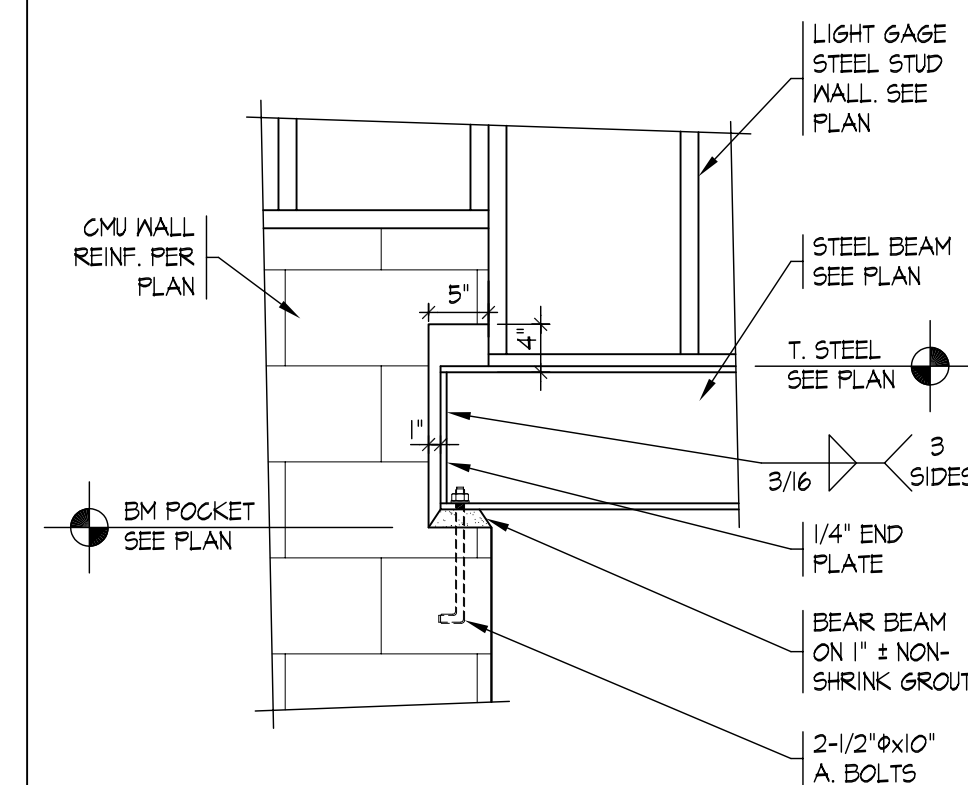
04034

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76 SUNSET DRIVE/UNIT 4  
BASALT, COLORADO 81621  
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GARFIELD COUNTY, CO

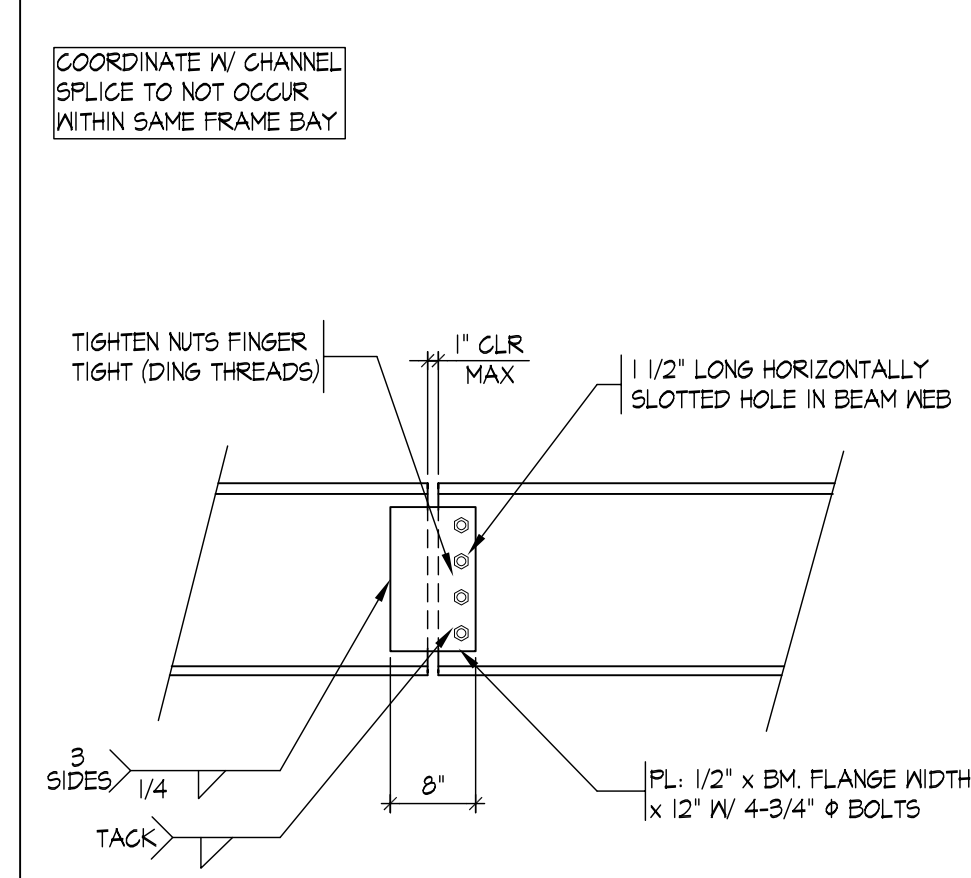
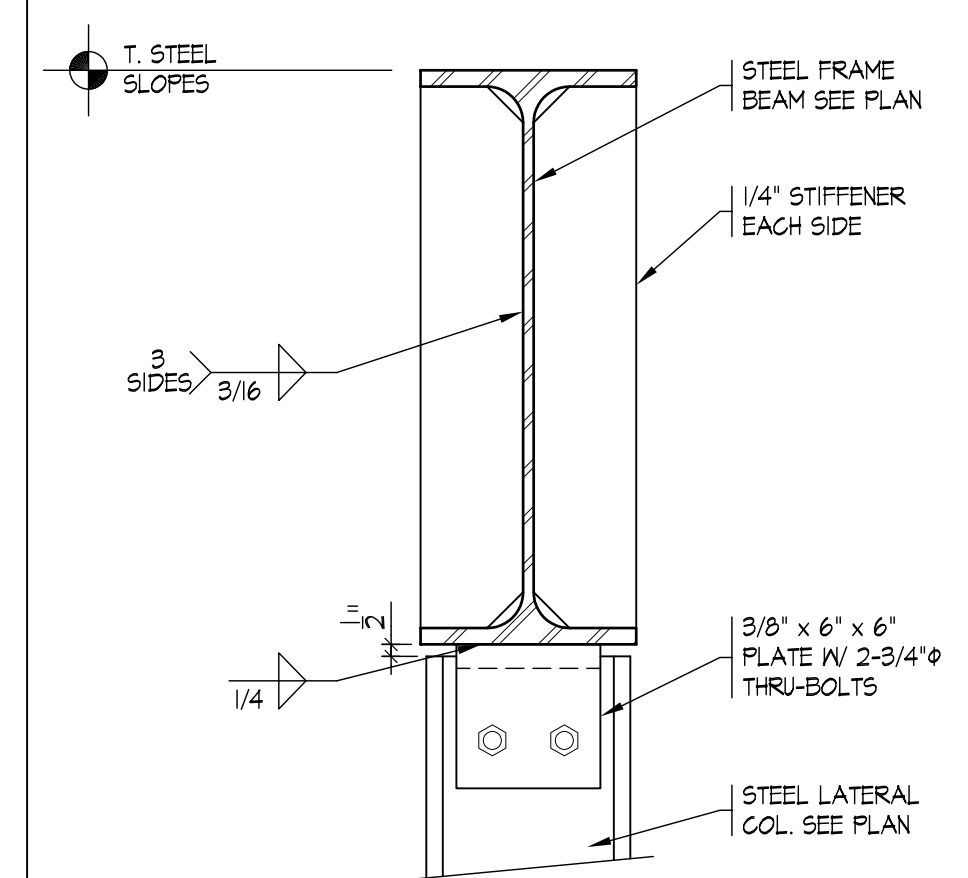
ISSUE:  
6/11/05 PERMIT  
8/11/05 PROGRESS  
9/20/05 COORDINATION

JOB# 04034  
SHEET:  
**S3.1**



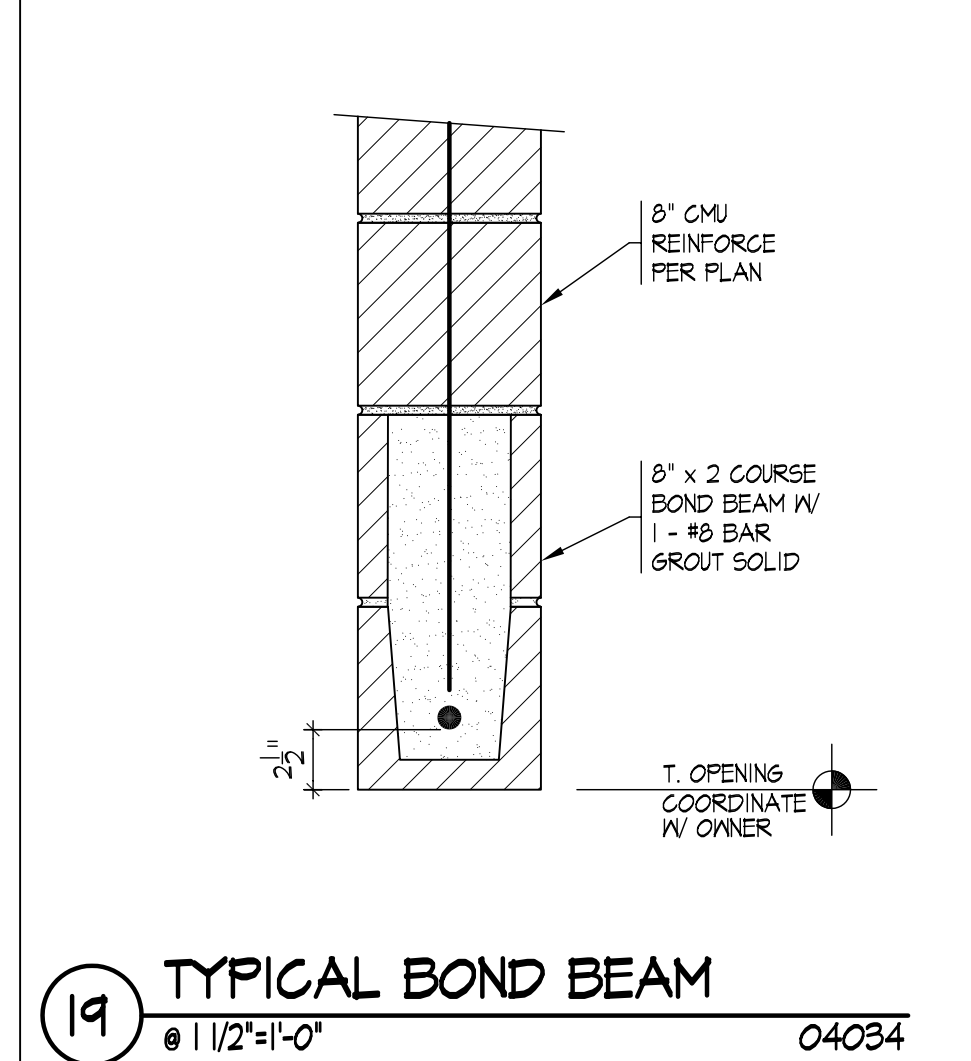
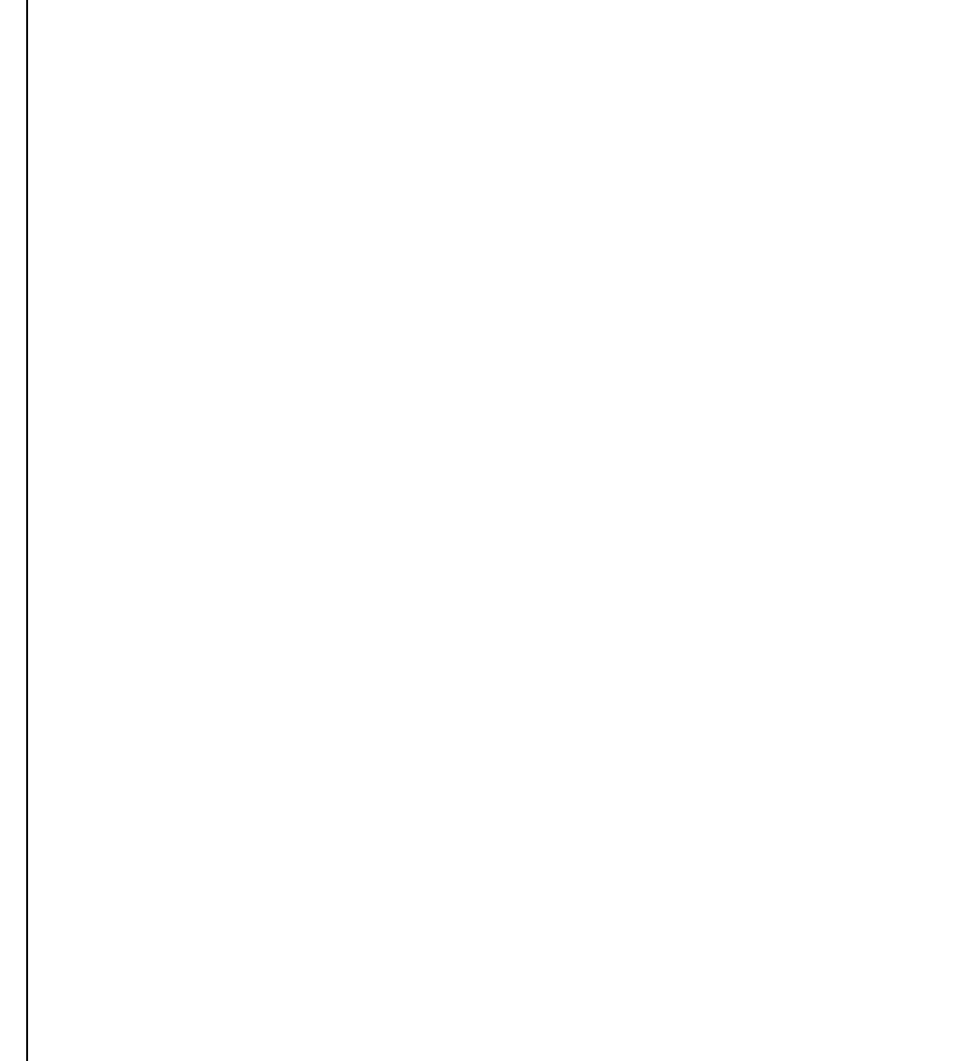
**17 CRANE RAIL**  
@ 3/4"=1'-0" 04034

**18 CRANE RAIL SPLICE**  
@ 3/4"=1'-0" 04034



**19 TYPICAL BOND BEAM**  
@ 1/2"=1'-0" 04034

**20 TYP. X-BRACING CONNECTION**  
@ 1/2"=1'-0" 04034



**21 STEEL CONNECTION**  
@ 1/2"=1'-0" 04034

**22 CMU BEAM POCKET**  
@ 3/4"=1'-0" 04034

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**B&B WELDING SHOP**  
GARFIELD COUNTY, CO

ISSUE:  
9/20/05 COORDINATION

JOB# 04034  
SHEET:

**S3.2**

# B & B WELDING SHOP GARFIELD COUNTY COLORADO

## DRAWING INDEX:

### ARCHITECTURAL

- A0.1 TITLE SHEET
- A1.1 SITE PLAN
- A2.1 FLOOR PLAN
- A2.2 ROOF PLAN
- A3.1 ELEVATIONS
- A3.2 ELEVATIONS
- A4.1 SECTION

### STRUCTURAL

- S1.1 FOUNDATION PLAN
- S2.1 ROOF FRAMING PLAN
- S3.1 DETAILS
- S3.2 DETAILS

## CODE INFORMATION:

### INTERNATIONAL BUILDING CODE

#### OCCUPANCY CLASSIFICATIONS:

- B OFFICE SPACES
- F-2 PRODUCTION AREA

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B & B WELDING  
SHOP

GARFIELD COUNTY, CO

#### ISSUE:

8/11/05	PROGRESS
9/20/05	COORDINATION

JOB# 04034

SHEET:

# A0.1

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APPROXIMATE LOCATION OF THE 100 YEAR FLOODPLAIN

EXISTING GRAVEL DRIVE

EXISTING BUILDING

EXISTING BUILDING

IMPROVED GRAVEL DRIVE (16' WIDE WITH TURN AROUND)

CONCRETE APRON AT SERVICE DOOR

CONCRETE APRON AT SERVICE DOOR

Proposed Building

GRAVEL PATHWAY AROUND BUILDING

CUSTOMER PARKING

CONCRETE ACCESS TO CUSTOMER PARKING

30%+ SLOPE

CUT TIERS INTO 30% SLOPE AS REQUIRED

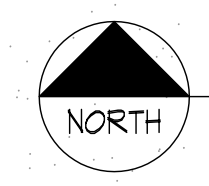
IRRIGATION DITCH

BRIDGE AT IRRIGATION DITCH PER OWNER

GRAVEL PATHWAY TO EMPLOYEE PARKING

GRAVEL DRIVE TO EMPLOYEE PARKING (LOCATION MAY VARY)

COUNTY ROAD #346



SITE PLAN  
@ 1/16" = 1'-0"

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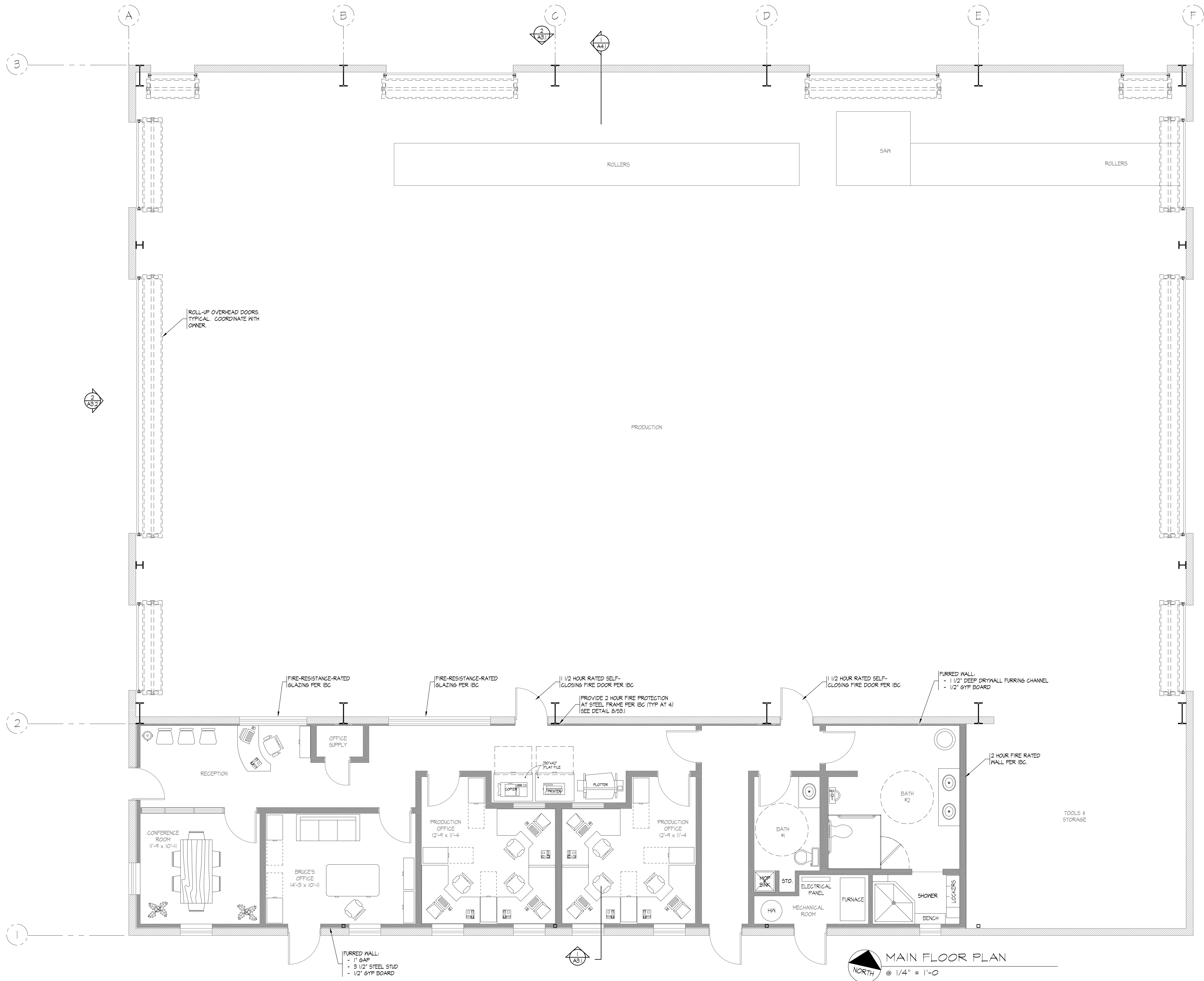
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8/11/05 PROGRESS  
9/20/05 COORDINATION

JOB# 04034

SHEET:

**A1.1**



**MAIN FLOOR PLAN**  
 @ 1/4" = 1'-0"

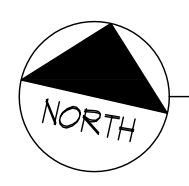
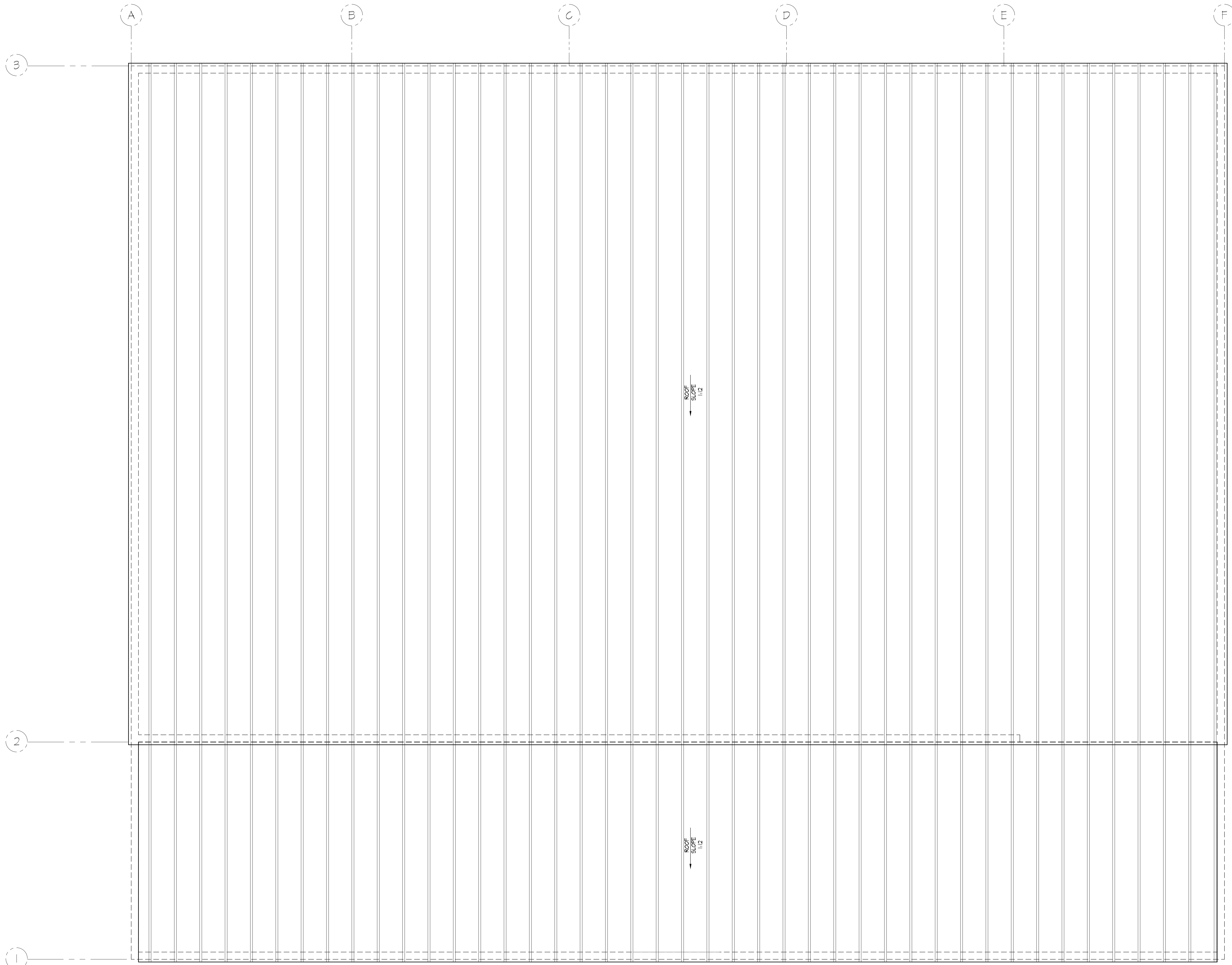
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ISSUE:  
 4/21/04 CONCEPTUAL LAYOUT  
 6/11/05 PERMIT  
 8/11/05 PROGRESS  
 9/20/05 COORDINATION

JOB# 04034  
 SHEET: **A2.1**

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ROOF PLAN  
 @ 1/4" = 1'-0"

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GARFIELD COUNTY, CO

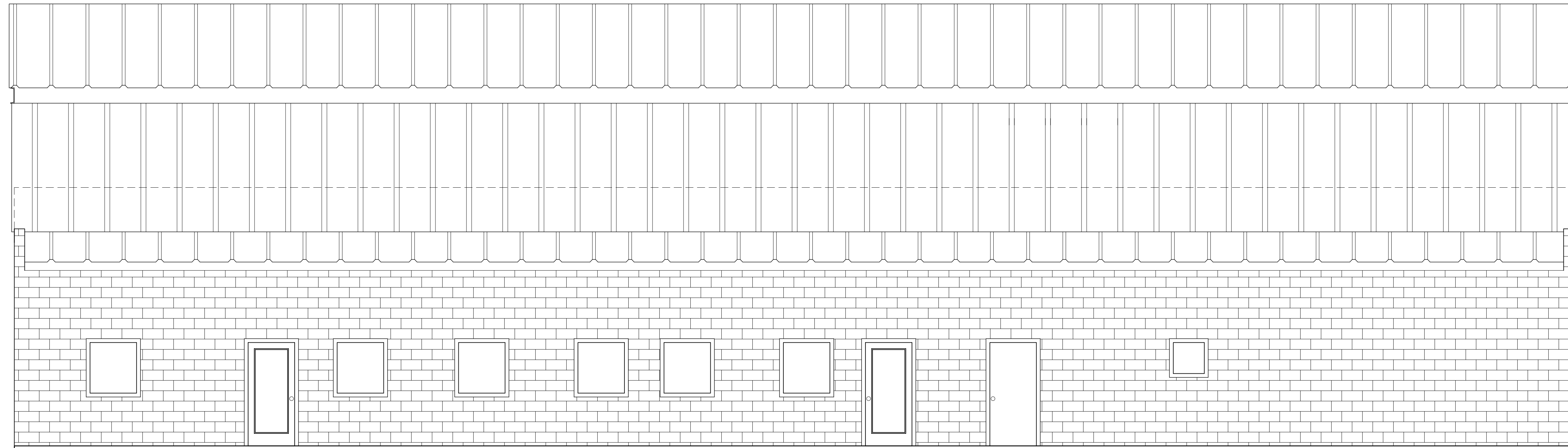
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4/21/04	CONCEPTUAL LAYOUT
6/11/05	PERMIT
8/11/05	PROGRESS
9/20/05	COORDINATION

JOB# 04034

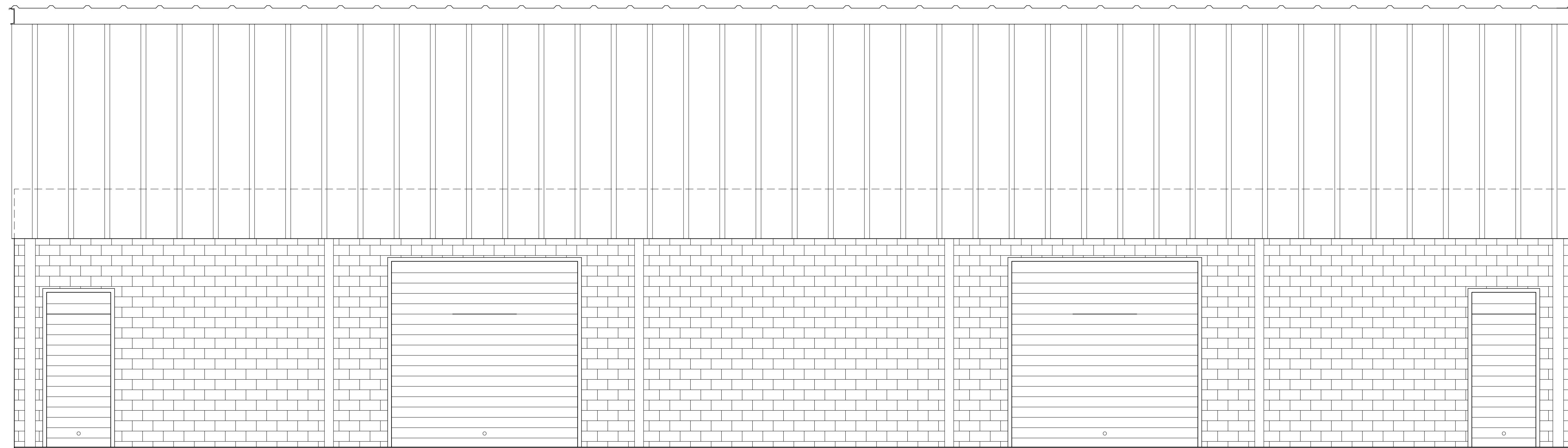
SHEET:

**A2.2**

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1 SOUTH ELEVATION  
@ 1/4" = 1'-0"



2 NORTH ELEVATION  
@ 1/4" = 1'-0"

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SHOP**

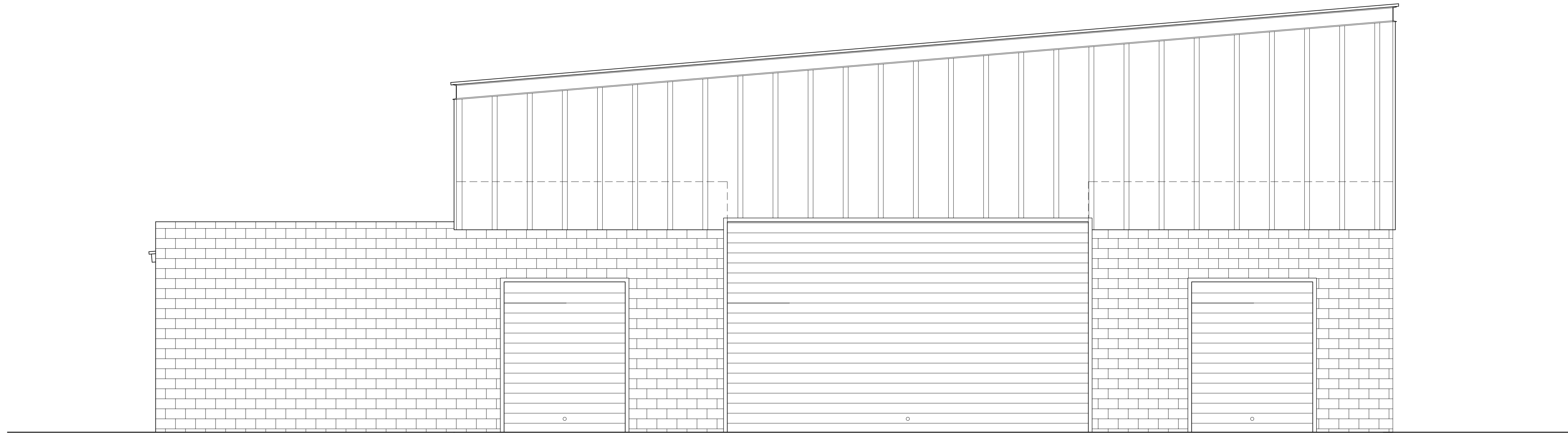
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8/11/05 PROGRESS  
9/20/05 COORDINATION

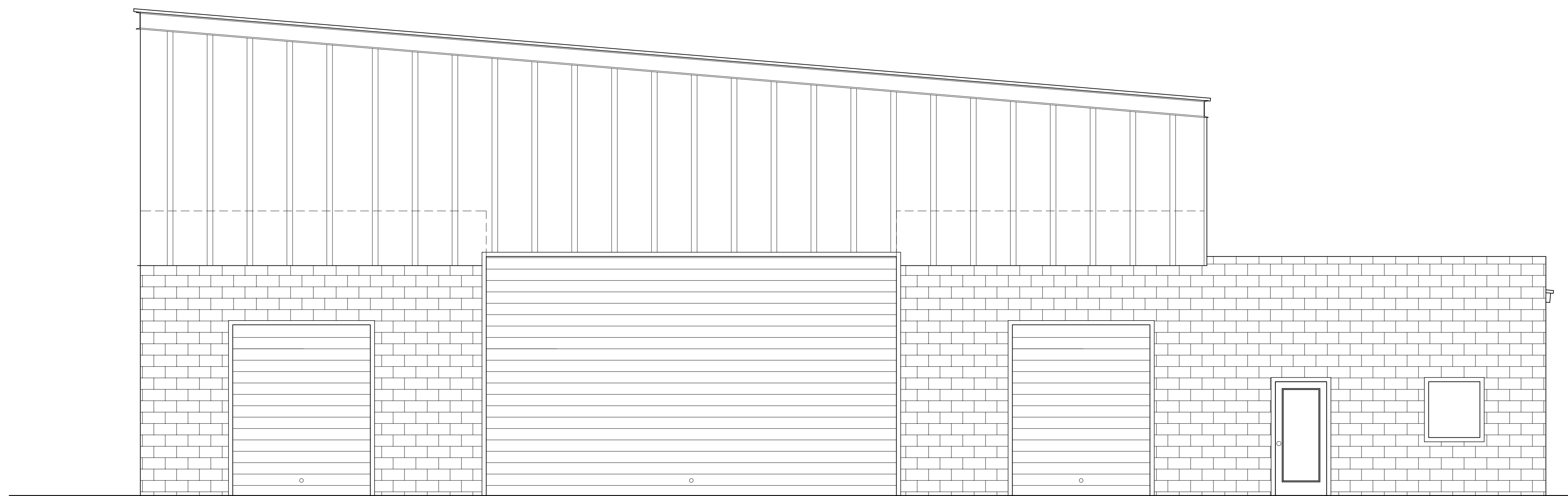
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SHEET:

**A3.1**



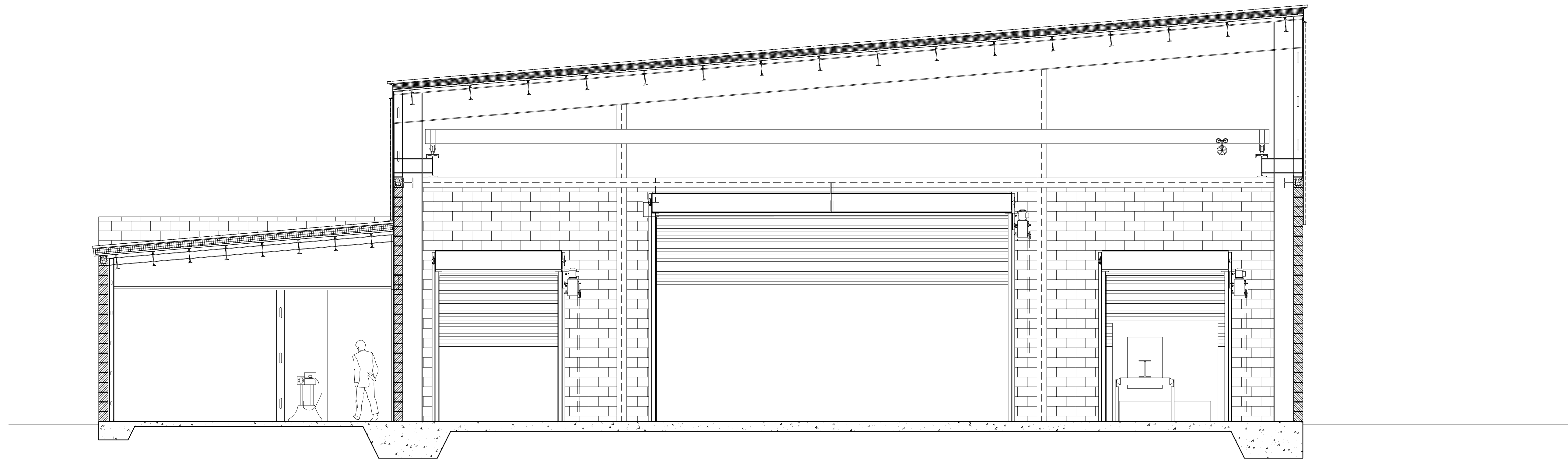
1 EAST ELEVATION  
@ 1/4" = 1'-0"



2 WEST ELEVATION  
@ 1/4" = 1'-0"

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PROBLEMS WHICH ARISE FROM  
OTHERS' FAILURE TO OBTAIN  
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JOB# 04034	
SHEET:	
<b>A3.2</b>	



1 TRANSVERSE SECTION  
 @ 1/4" = 1'-0"

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JOB# 04034	
SHEET:	
<b>A4.1</b>	

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