GENERAL NOTES:

DESIGN:

1. BUILDING CODE – 2003 INTERNATIONAL BUILDING CODE
2. SNOW LOADS:
   - GROUND SNOW LOAD = Pg = 20 psf
   - FLAT ROOF SNOW LOAD = Pf = 20 psf
   - SNOW EXPOSURE FACTOR = Ce = 1.0
   - SNOW LOAD IMPORTANCE FACTOR = Is = 1.0
   - THERMAL FACTOR = Ct = 1.0
3. WIND LOADS:
   - BASIC WIND SPEED = 90 MPH
   - WIND IMPORTANCE FACTOR Iw = 1.0
   - BUILDING CATEGORY = II
   - OVERALL EXPOSURE CATEGORY = C
   - INTERNAL PRESSURE COEFFICIENT = ±0.18
4. SEISMIC:
   - Sa = 10% g
   - S1 = 3.0% g
   - PER SECTION 1614.1 OF 2003 IBC THE STRUCTURE IS SEISMIC DESIGN CATEGORY "A" AND NEED ONLY COMPLY WITH SECTION 1614.4 OF 2003 IBC.
5. ROOF LOADS:
   - DEAD LOAD = 18 PSF
   - LIVE LOAD = 20 PSF

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

WIDE FLANGE SHAPES	A992 OR A572 GR. 50 (Fy = 50)
CHANNELS, ANGLES, PLATES, ETC. (UNO)	A36 (Fy = 36)
STRUCTURAL TUBE	A500 (Fy=46)
STEEL PIPE	A53 (Fy=35)
THREADED RODS	F1554, A36 OR A307
BOLTS	A325
WELDING ELECTRODES	E70XX

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (1992), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
3. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK AND 1'-4" EMBEDMENT.
4. ALL STRUCTURAL STEEL TO HAVE A SHOP GRADE PRIMER.

MISCELLANEOUS:

1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
3. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
5. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
6. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

MASONRY:

1. GROUT FOR VERTICALLY REINFORCED MASONRY WALLS AND BOND BEAMS SHALL CONSIST OF: 1 PART CEMENT, 2-1/2 PARTS FINE AGGREGATE, 2 PARTS PEA GRAVEL. STRENGTH f'c = 3000 PSI AT 28 DAYS. GROUT SLUMP 9" TO 10".
2. GROUT SOLID ALL CELLS CONTAINING REINFORCING.
3. PROVIDE 24" BEEP MINIMUM SOLID GROUTED MASONRY BELOW ALL LINTEL BEARINGS.
4. LAP ALL VERTICAL WALL REINFORCEMENT SPLICES AS FOLLOWS:
   - 48" FOR #5 BARS
5. REINFORCE ALL BOND BEAMS WITH (2) – #5 BARS BOTTOM, CONTINUOUS. LOCATE BOND BEAMS AT TOP COURSE OF ALL BEARING AND NON-BEARING WALLS.
6. MASONRY WALLS SHALL BE LAID UP AND GROUTED IN 4 FOOT LIFTS (LOW LIFT GROUTING PROCEDURE PER ACI 530.1). IF CLEANOUTS ARE PROVIDED AT EACH GROUTED CORE, WALLS MAY BE GROUTED IN 8 FOOT LIFTS (HIGH LIFT GROUTING PROCEDURE PER ACI 530.1.)
7. THE PROCEDURES OF ACI 530.1 FOR COLD WEATHER CONSTRUCTION SHALL BE ADHERED TO WHENEVER THE AIR OR UNIT TEMPERATURE IS BELOW 40 DEGREES F.
8. MORTAR IN ALL CMU WALLS SHALL BE PORTLAND CEMENT/LIME, TYPE M BELOW GRADE AND TYPE S ABOVE GRADE.
9. VERTICAL REINFORCEMENT SHALL BE HELD IN PLACE AT TOP AND BOTTOM OF WALL AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS OR 10 FEET MAX.

COLD-FORMED STEEL:

1. ALL SIZING BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (ICBO ER-4943P) PRODUCT TECHNICAL INFORMATION.
2. MATERIALS SHALL CONFORM TO THE FOLLOWING:
   A. GALVANIZED MATERIAL
      1. ALL GALVANIZED STUDS 12, 14 AND 16 GAUGE SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A653 SS, GRADE 50, CLASS 1 OR 3 WITH A MINIMUM YIELD OF 50,000 PSI.
      2. ALL GALVANIZED 18 AND 20 GAUGE STUDS; ALL GALVANIZED TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF ASTM A653 SS, GRADE 33 WITH A MINIMUM YIELD OF 33,000 PSI.
      3. ALL GALVANIZED STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A525.
   B. PROPERTIES
      1. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE STEEL STUD MANUFACTURER ASSOCIATION AND AISI DESIGN MANUAL SHALL BE CONSIDERED THE MINIMUM PERMITTED.
   C. SUBSTITUTIONS
      1. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING PRIOR TO DELIVERY, BY THE ARCHITECT AND/OR ENGINEER OF RECORD.
3. INSTALLATION OF STUDS SHALL BE AS PER ASTM C1007-00 "INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND ACCESSORIES", ASTM C955-00a "SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS, RUNNERS (TRACK), AND BRACING OR BRIDGING FOR SCREW APPLICATION OF GYPSUM BOARD AND METAL PLASTER BASES", AND ASTM C754-00 "SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW ATTACHED GYPSUM BOARD".
4. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
5. ALL TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER.
6. ALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO DISTRICT INDUST. RECOMMENDATION.
7. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
8. STUD ENDS MUST BE SQUARELY SEATED AGAINST THE TRACK WEB. BOTH STUD FLANGES MUST BE ATTACHED TO TRACK MEMBERS AT TOP AND BOTTOM.
9. STUD BRIDGING SHALL BE PROVIDED BY 1-1/2" COLD ROLLED U-CHANNEL. THE U-CHANNEL MUST BE ATTACHED TO EACH STUD BY WELDING OR ATTACHING WITH CLIP ANGLES AND SCREWS. HORIZONTAL STRAPPING AND SOLID BRIDGING WITH TRACK MEMBERS CAN ALSO BE USED FOR BRIDGING. BRIDGING SHALL BE SPACED AT 4'0" O.C. MAX.
10. THE FOLLOWING MINIMUM COLD FORMED STEEL ATTACHMENTS SHALL BE PROVIDED U.N.O.:
    - TRACK TO STRUCTURAL STEEL ——— (1) – .145"ø POWER DRIVEN FASTENER @ 2'-6" O.C.
    - TRACK TO METAL DECK ——— (1) – #10 TEK SCREW @ 1'-4" O.C.
    - TRACK TO MASONRY ——— (1) – .145"ø POWER DRIVEN FASTENER @ 2'-6" O.C.
    - STUD TO STRUCTURAL STEEL ——— (1) – 1.2x 2x – 14 GA. CLIP ANGLE CONNECTION W/ (2) – #10 TEK SCREWS INTO METAL STUD AND (2) – .145"ø POWER DRIVEN FASTENERS INTO STRUCTURAL STEEL.

CONCRETE:

1. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE FOLLOWING:

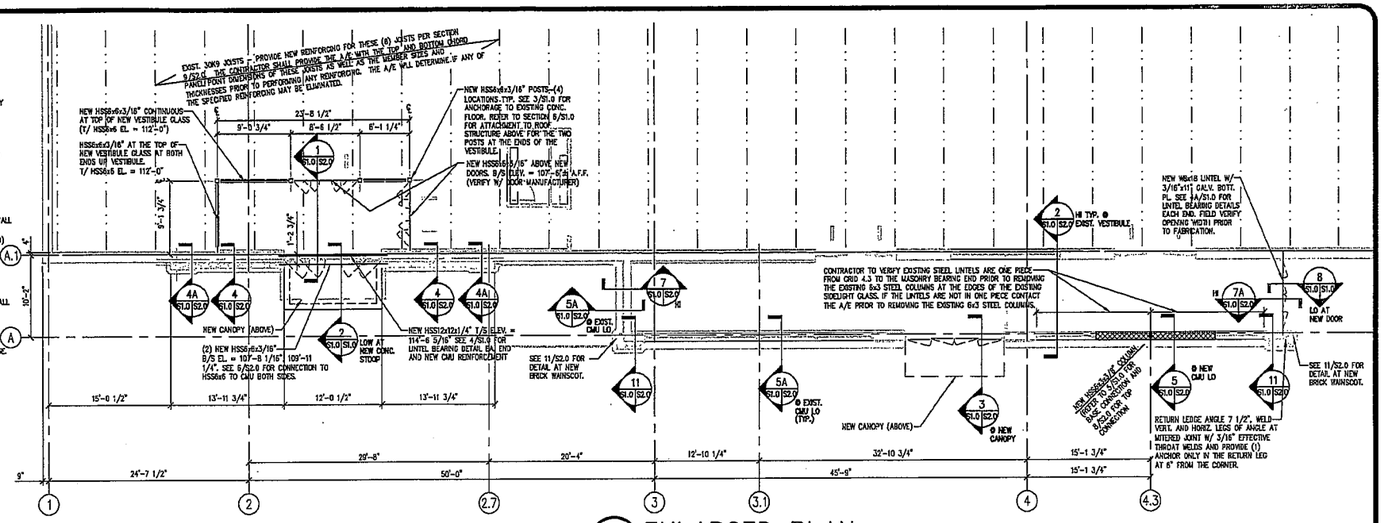
	STRENGTH PSI	DENSITY PCF
EXTERIOR SLABS, CURBS, SIDEWALKS	4000	145

2. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 10".
3. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
4. THE COARSE AGGREGATE SIZE SHALL BE # 57 OR LARGER.
5. THE MINIMUM PORTLAND CEMENT CONTENT (ASTM C150) OF ALL CONCRETE SHALL CONFORM TO THE FOLLOWING TABLE. (FLY ASH NOT PERMITTED)

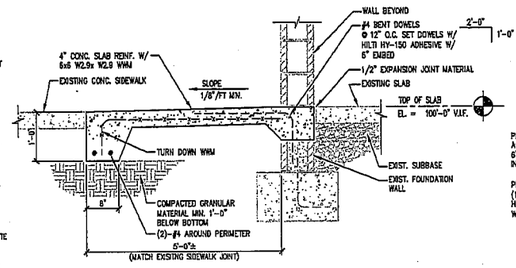
SPECIFIED COMPRESSIVE STRENGTH (PSI)	MINIMUM CEMENT CONTENT (POUNDS PER CUBIC YARD) NON-AIR ENTRAINED CONCRETE	AIR ENTRAINED CONCRETE
4000	564	611

6. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE STRUCTURE IS LOCATED.
7. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.
8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
9. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL 1992.
10. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (1997).
11. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

UNFORMED SURFACE IN CONTACT WITH THE GROUND.	3 IN.
FORMED SURFACES EXPOSED TO EARTH OR WEATHER:	
#6 BARS AND LARGER	2 IN.
#5 BARS AND SMALLER	1-1/2 IN.
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:	
BEAMS, GIRDERS, AND COLUMNS	1-1/2 IN.
SLABS, WALLS, AND JOISTS	
#11 BARS AND SMALLER	3/4 IN.
#14 AND #18 BARS	1-1/2 IN.



1 S1.0 S1.0 ENLARGED PLAN
SCALE: 1/8"=1'-0"



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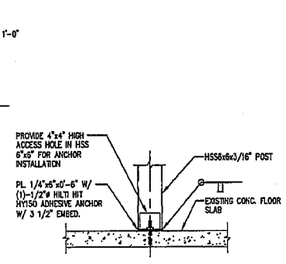

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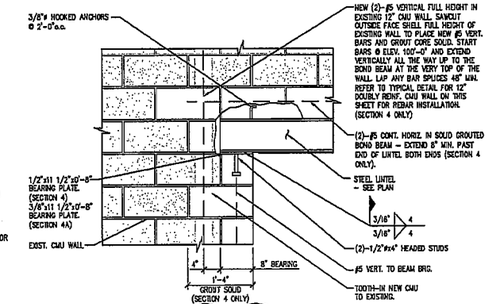

4A 4 S1.0 S1.0 SECTION
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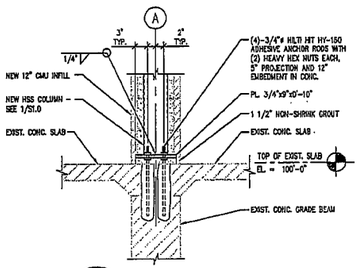

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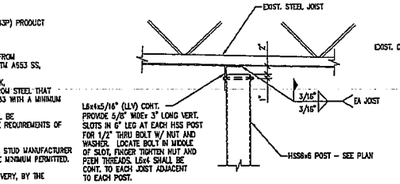

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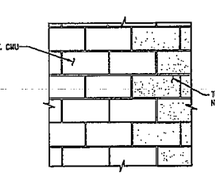

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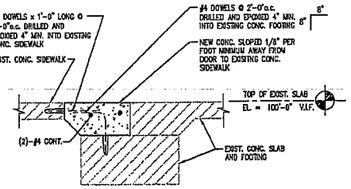

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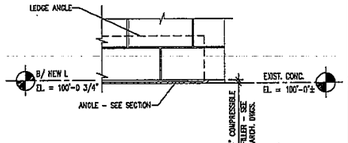
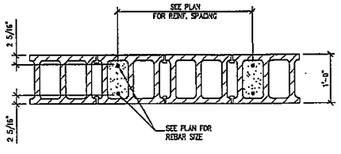


SECTION A-A

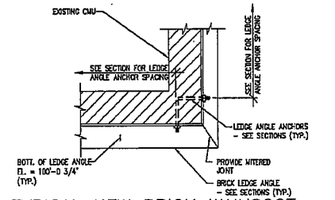
MEMBER DEPTH: (EXAMPLE: 6" = 600 ± 1/100 INCHES) ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES.	STYLE: S = STUD OR JOIST SECTION T = TRACK SECTIONS	FLANGE WIDTH: (EXAMPLE: 1 5/8" = 1.625" = 162 ± 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.	MATERIAL THICKNESS: (EXAMPLE: 0.054" = 54 MILS. 1 MIL = 1/1000 INCH)

MATL. THICKNESS (IN MILS)	CORRESPONDING GAUGE:
33	20
43	18
54	16
68	14
97	12
118	10

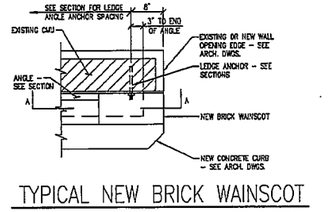
COLD-FORMED STEEL IDENTIFICATION LEGEND



TYPICAL DETAIL FOR 12" DOUBLY REINFORCED CMU WALLS



TYPICAL NEW BRICK WAINSCOT LEDGE ANGLE DETAIL AT CORNER



TYPICAL NEW BRICK WAINSCOT LEDGE ANGLE DETAIL AT NEW OR EXIST. DOOR OPENING U.N.O.

Constr. Doc & Revisions

No	Date	Description
	04/20/07	ISSUED FOR BIDS & PERMITS

Prototype Updates (FOR REFERENCE ONLY)

No	Date	Description

STATE OF TEXAS — DIRK A. BUTTKE — 83634 — LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DIRK A. BUTTKE, P.E. 83634 ON APRIL 20TH, 2007.

BID DATE: 04/20/07
CADD NAME: 156-107 S1 — PROJECT NO.: 552513.14
DRAWN BY: MTL — CHECKED BY: DAB
PROTOTYPE 2007 SBS PROTO

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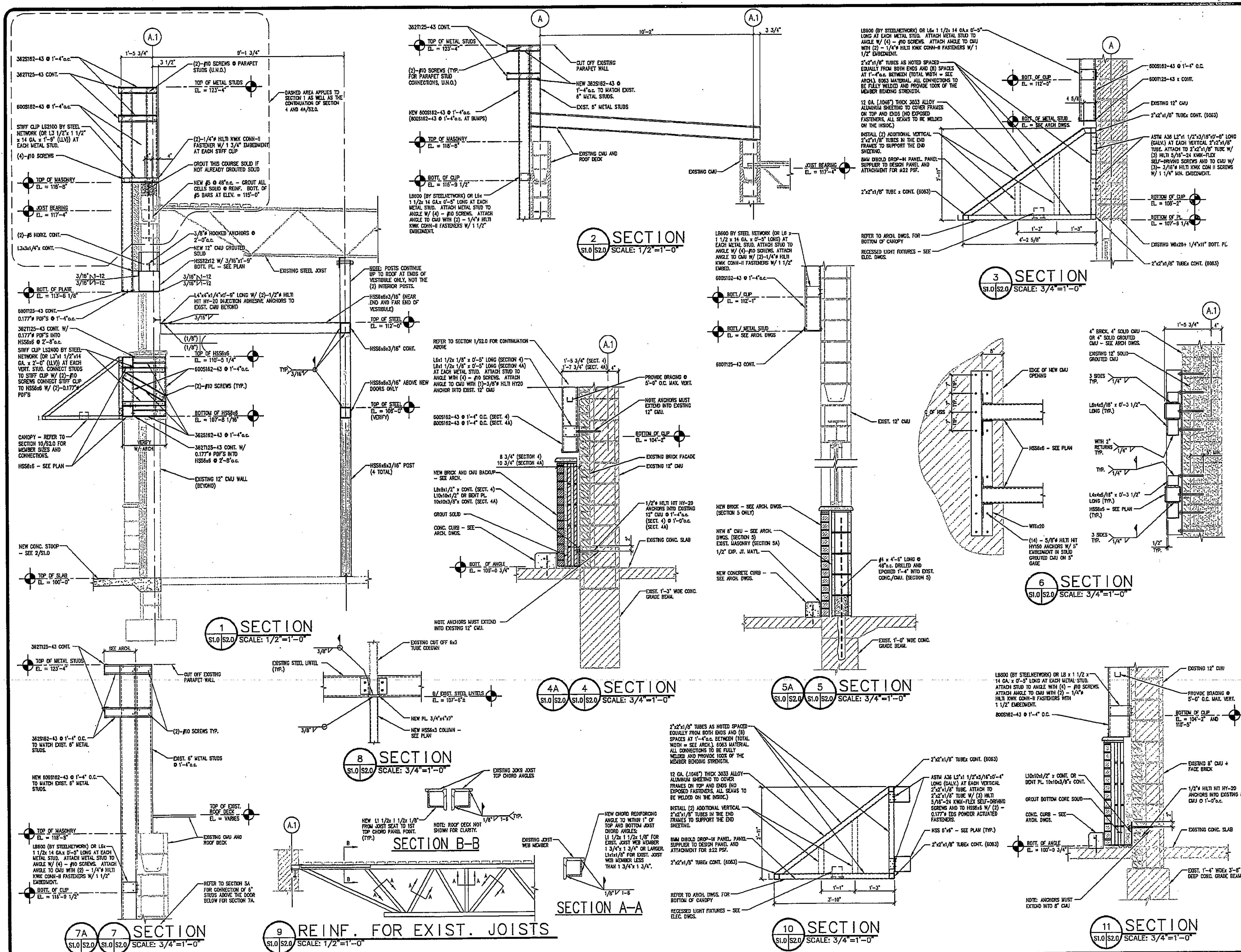
Location
AMARILLO, TX
2403 S. SONCY

Drawing Title
STRUCTURAL PLAN AND DETAILS

Scale | Date 04/20/07

Sheet No.
S1.0



Constr. Doc & Revisions

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No	Date	Description

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BID DATE: 04/20/07
CADD NAME: 156-107 S2 PROJECT NO.: 55251314
DRAWN BY: JDF CHECKED BY: JDB
PROTOTYPE 2007 SBS PROTO

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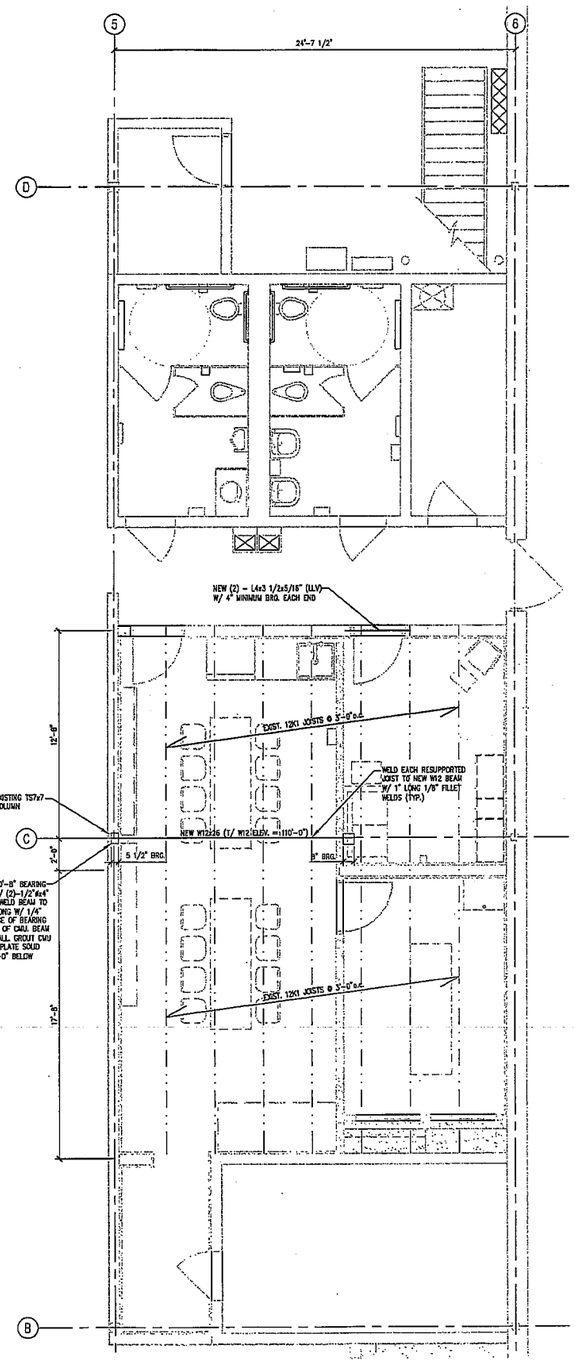
Drawing Title
STRUCTURAL DETAILS

Scale
Date 04/20/07

Sheet No. S2.0



1 S1.0 S3.0 PARTIAL MEZZANINE FRAMING PLAN

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

Constr. Doc & Revisions

No	Date	Description
	04/20/07	ISSUED FOR BIDS & PERMITS

Prototype Updates
(FOR REFERENCE ONLY)

No	Date	Description

STATE OF TEXAS
DIRK A. BUTIKE
83634
LICENSED
PROFESSIONAL ENGINEER

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BID DATE: 04/20/07
CADD NAME: 165-107 S3.0 PROJECT NO.: 560513.14
DRAWN BY: JDF CHECKED BY: JDB
PROTOTYPE 2007 SRS PROTO

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