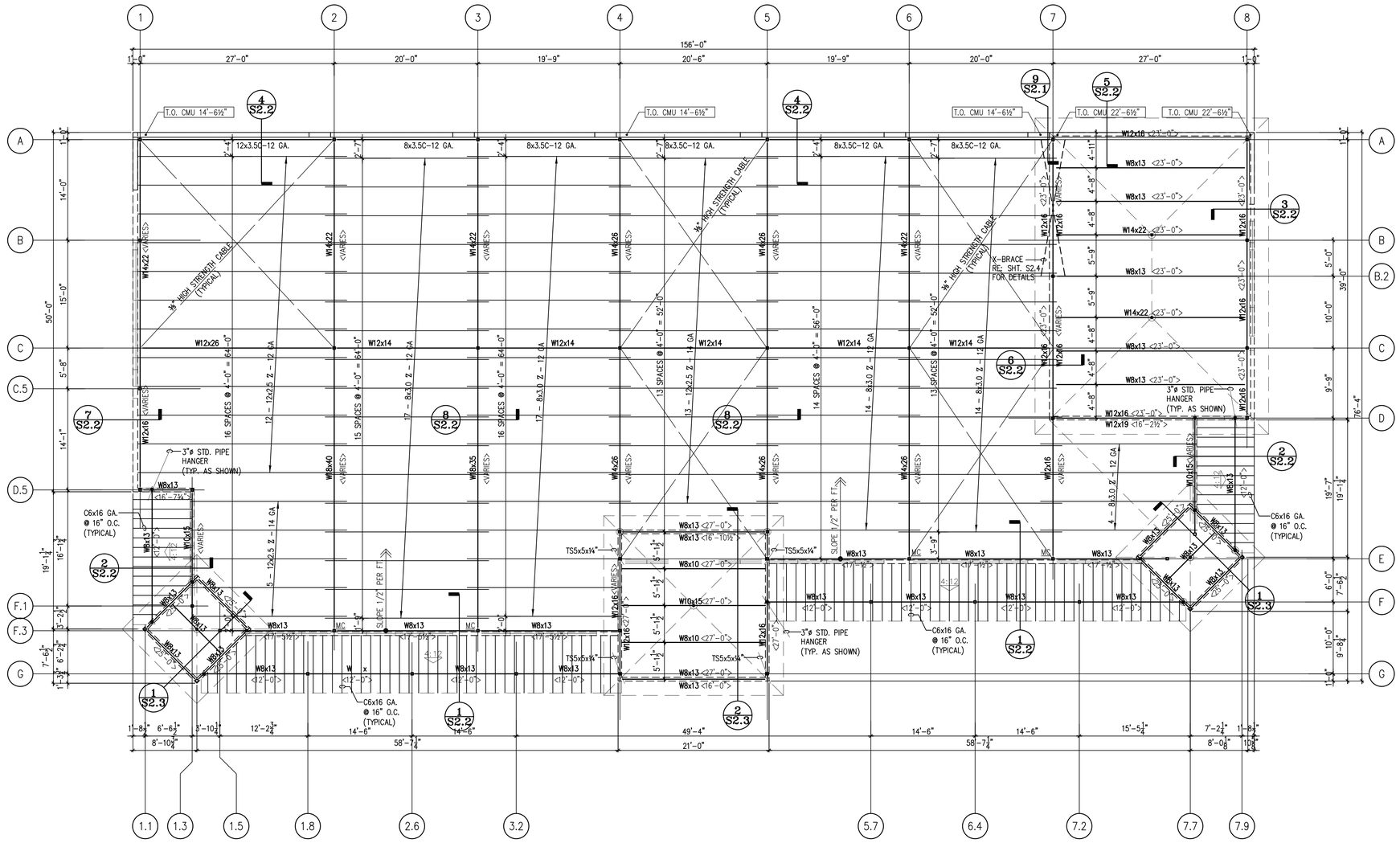
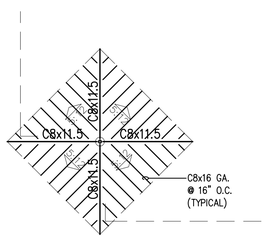


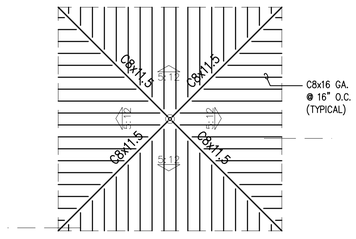
ROOF FRAMING PLAN

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

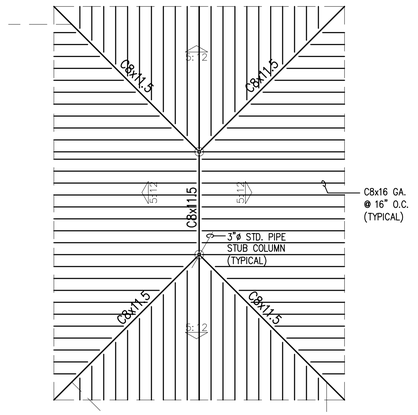
ALL COLUMNS SHALL BE TS4x4x¼" (U.O.N.)



TYPICAL END TOWER FRAMING



CENTER TOWER FRAMING



REAR TOWER FRAMING

GENERAL NOTES: FRAMING SYSTEM

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

STRUCTURAL AND MISCELLANEOUS STEEL

1. CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS:
   STRUCTURAL & MISC. SHAPES: ——————ASTM A-36
   PIPE COLUMNS: ——————ASTM A-53-B
   ASTM A-68-II
   TUBE COLUMNS: ——————ASTM A-500-B
2. ALL DETAILING SHALL BE IN CONFORMANCE WITH THE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
3. UNLESS NOTED OTHERWISE, PROVIDE FRAMED BEAM CONNECTIONS IN ACCORDANCE WITH PART 4, AISC MANUAL – 3/4" ASTM A-325 BOLTS. DESIGN FOR SHEARS IN TABLES FOR ALLOWABLE LOADS ON BEAMS, PART 2.
4. FIELD CONNECTIONS SHALL BE EQUIVALENT TO STANDARD BOLTED CONNECTIONS USING 3/4" ASTM A-325 BOLTS UNLESS OTHERWISE SHOWN. IF CONNECTION BOLTS ARE IN SINGLE SHEAR BOLTS SHALL BE PLACED IN TWO VERTICAL ROWS. CONNECTIONS SHALL BE BOLTED OR WELDED – SEE DETAILS.
5. WELDING SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION. WELDS NOT CALLED OUT ON DRAWINGS SHALL BE 1/4" CONTINUOUS FILLET WELDS. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E70XX.
6. BOLTS
   ANCHOR BOLTS: ASTM A-307
   STEEL CONNECTION BOLTS: ASTM A-325
   (TIGHTEN BY THE TURN-OF-THE-NUT METHOD)

LIGHT GAUGE METAL FRAMING:

1. ALL LIGHT GAUGE METAL FRAMING INCLUDING METAL STUDS, METAL JOISTS, TRACK RUNNERS AND BRIDGING (STRAP OR OTHER) SHALL BE AS MANUFACTURED BY U.S.G. OR EQUAL. ALL SIZES, GAUGES AND SPACING SHALL BE AS PER THE DRAWINGS.
2. PAINTED METAL STUDS SHALL BE PAINTED TO CONFORM TO ASTM A570 GRADE 50. GALVANIZED METAL STUDS SHALL CONFORM TO ASTM A446 GRADE D, 50 KSI YIELD. PAINTED METAL STUDS SHALL BE PAINTED TO CONFORM TO FEDERAL SPECIFICATION TT-P664. FIELD ABRASIONS TO MEMBERS DUE TO CUTTING OR WELDING SHALL BE TOUCHED UP WITH SAME. GALVANIZED METAL STUDS SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING. FIELD ABRASIONS TO MEMBERS DUE TO CUTTING OR WELDING SHALL BE REPAIRED WITH COLD GALVANIZING COMPOUND PER MANUFACTURER'S SPECIFICATIONS.
3. PROVIDE HORIZONTAL BRIDGING AT 4'-0"O.C. MAXIMUM SPACING. USE MANUFACTURER'S STANDARD CONNECTION DETAILS.
4. PROVIDE 16 GAUGE CONTINUOUS TRACKS AT ENDS OF STUDS. STUDS SHALL BE SEATED SQUARELY IN TRACKS.
5. UNLESS NOTED OTHERWISE, PROVIDE 2-NO. 12 SCREWS OR 1/8" FILLET WELDS, 2 INCHES LONG FOR STUD-TO-STUD OR STUD-TO-TRACK CONNECTIONS.
6. STUD OR TRACK ATTACHMENTS TO STRUCTURAL STEEL SHALL BE ACCOMPLISHED BY FUSION WELDING 1" EACH SIDE OF STUD/TRACK AT EACH SUPPORT AND CONNECTION.
7. FUSION WELDING OF STUDS SHALL CONFORM TO ASTM E60.
8. WALLS VERTICAL STUDS SHALL BE 60CSW16 BY UNIMAST INCORPORATED OR APPROVED EQUAL WITH THE FOLLOWING TYPE, GAGE, AND PHYSICAL PROPERTIES

WALL STUDS	GAGE:	16
	MOMENT OF INERTIA:	3.129 IN⁴/FT
	SECTION MODULUS:	1.022 IN³/FT
	MINIMUM DEPTH:	6 IN (NOMINAL)

STEEL DECK:

1. DESIGN, FABRICATION AND ERECTION OF METAL DECK SHALL BE CONFORM TO THE STEEL DECK INSTITUTE "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS", LATEST EDITION.
2. WELDED MATERIALS AND PROCEDURES SHALL BE MADE TO ENSURE AGAINST BURNING OF HOLES IN THE DECK. WELDS SHALL CONFORM TO THE FOLLOWING PATTERNS USING STANDARD WELDED WASHERS, WHERE REQUIRED, AT SUPPORTING MEMBERS.
   A. WELD AT EACH SIDE LAP AND TWO EVENLY SPACED INTERMEDIATE CORRIGATIONS BETWEEN SIDE LAPS AT INTERMEDIATE SUPPORTS.
   B. WELD AT 12" MAX. AT THE PERIMETER.
   C. #12" TEK FASTENERS AT 1/3 POINTS OF DECK SPAN AT PANEL SEAMS.
3. MAJOR OPENINGS ARE SHOWN ON THE DRAWINGS. OPENINGS NOT SHOWN ON THE DRAWINGS AND LARGER THAN 12" SQUARE OR ROUND, SHALL HAVE STRUCTURAL STEEL FRAMING AROUND OPENINGS FOR DECK SUPPORT. ALL OPENINGS SHALL BE SHOWN ON SHOP DRAWINGS, AND VERIFIED BY CONTRACTOR AS TO SIZE AND LOCATION.
4. COORDINATE MECHANICAL UNIT OPENINGS WITH UNIT MANUFACTURERS.
5. DECKS SHALL BE VULCRAFT, CORRUGATED STEEL DECK WITH THE FOLLOWING TYPE, GAGE AND PHYSICAL PROPERTIES (PER FOOT OF WIDTH):

ROOF DECK	GAGE:	22
	MOMENT OF INERTIA:	0.0902 IN⁴/FT
	SECTION MODULUS:	0.0832 IN³/FT
	MINIMUM DEPTH:	2 IN (NOMINAL)
	USE "BATTENLOK" OR APPROVED EQUAL.	

PLAN NOTES

1. < > DESIGNATES TOP OF STEEL (JOIST BEARING) ELEVATION IN FEET & INCHES ABOVE FINISH SLAB (REFERENCE ELEV. 0'-0")
2. T.O. CMU 0'-0" DESIGNATES TOP OF CMU WALL IN FEET & INCHES ABOVE FINISH SLAB.
3. MC DESIGNATES MOMENT CONNECTION. RE: DETAIL SHEET S2.2

5' 0" 10'
SCALE: 1/8 INCH = 1 FOOT
GRAPHIC SCALE

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DATE	DESCRIPTION
	CLIENT REVIEW		
07/25/07	PERMIT		
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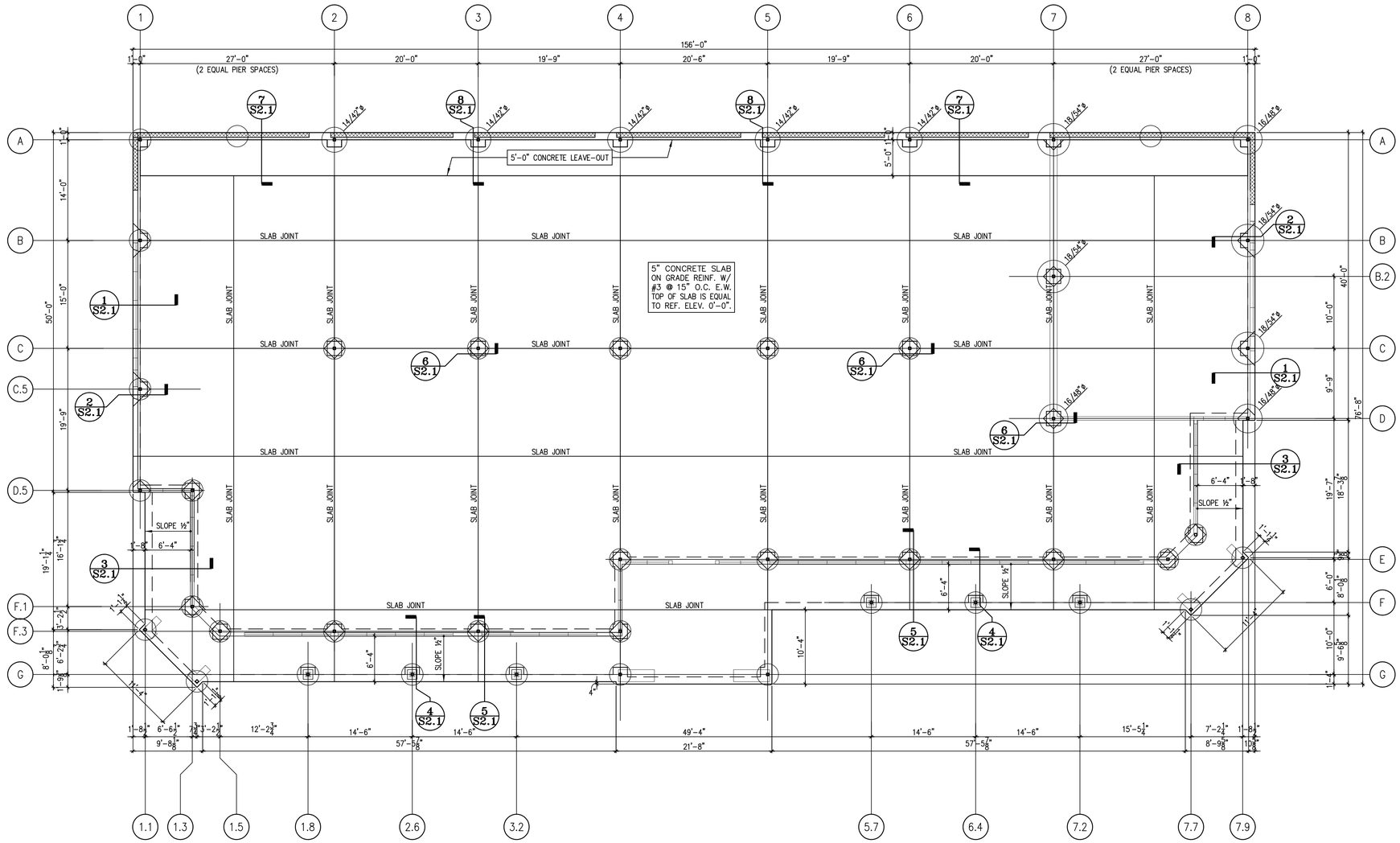
MILAGRO BUILDING COMPANY
PROPOSED NEW RETAIL CENTER
AIRLINE DRIVE @ 28TH STREET
HOUSTON, TEXAS

ROOF FRAMING PLAN

DRAWN BY: RT	DATE: 07/05/07	SHEET:	
CHECKED BY: MFQ	PROJ. NO.: 07038.10	S1.2	OF: 6



FOUNDATION PLAN

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

IMPORTANT NOTES ON PIER CAVING:

1. DUE TO THE PRESENCE OF SILTY AND/ OR SANDY CLAY, CAVING MAY OCCUR DURING DRILLING. IN THIS CASE, ONE OR MORE OF THE FOLLOWING STEPS HAVE TO BE TAKEN:
   A. INCREASE SHAFT-TO-BELL DIAMETER RATIO FROM 1/3 TO 1/2.
   B. USE STRAIGHT SHAFTS.
   C. USE CASING DURING DRILLING & CONCRETING OPERATIONS.
2. BELL DIAMETER HAS TO BE PROVIDED AS SHOWN, UNLESS INSTRUCTIONS ARE GIVEN BY THE ENGINEER TO REVISE.
3. INFORM ENGINEER IMMEDIATELY OF ANY CHANGES MADE DURING DRILLING OPERATION, DUE TO CAVING.
4. IF SHAFT DIAMETER IS INCREASED, REINFORCEMENT HAS TO BE INCREASED ACCORDINGLY. REFER TO PIER DETAILS/SCHEDULE, OR OBTAIN REVISED REINFORCEMENT DATA FROM ENGINEER.
5. **IN ORDER TO AVOID UNNECESSARY INTERRUPTIONS DURING DRILLING OPERATION, ENGINEER HIGHLY RECOMMENDS THAT A FULL-SIZE PILOT PIER BE DRILLED, WITH SUFFICIENT ADVANCE NOTICE TO MAKE PIER SIZE REVISIONS; IF AND AS REQUIRED.**

GENERAL NOTES: COORDINATION W/ ARCH. DWGS.

1. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS JOINTLY, TO ENSURE COORDINATION OF ALL PHASES OF CONSTRUCTION DESCRIBED IN THESE DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BOTH ARCHITECT AND ENGINEER, PRIOR TO PROCEEDING WITH CONSTRUCTION WORK.
2. THE FOLLOWING ITEMS, IN PARTICULAR, HAVE TO BE CLOSELY COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS:
   A. ALL DIMENSIONS;
   B. SLAB AND FLOOR ELEVATIONS, SLOPES, LOCATIONS AND DIMENSIONS OF ANY RECESSES, INCLUDING THOSE INTENDED FOR SHOWERS, ELEVATORS, FLOORING MATERIALS, FLUSH HEARTHS, ETC.;
   C. PLUMBING, GAS, VENT & ELECTRICAL OUTLETS, ETC.;
   D. CURBS AND VENEER LEDGES;
   E. CEILING HEIGHTS AND CEILING CONDITIONS;
   F. ROOF GEOMETRY AND SLOPES.
3. CONTRACTOR IS ADVISED THAT IN ALL ITEMS LISTED UNDER PARAGRAPH 2 ABOVE, ARCHITECTURAL DRAWINGS WILL GENERALLY TAKE PRECEDENCE OVER STRUCTURAL DRAWINGS.

GENERAL NOTES: CONCRETE MASONRY (CMU):

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

1. CONCRETE MASONRY UNITS (CMU) SHALL BE NORMAL WEIGHT, CONFORMING TO ASTM C90, GRADE N, TYPE 1, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH ($f'm$) OF 2500 PSI. MINIMUM COMPRESSIVE STRENGTH SHALL BE VERIFIED BY TESTING IN ACCORDANCE WITH ASTM STANDARD C140. TEST RESULTS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW.
2. MORTAR SHALL BE TYPE M WITH THE FOLLOWING PROPORTIONS OF PORTLAND CEMENT TO MASONRY CEMENT TO AGGREGATE: 1 TO 1 TO 2.5.
3. GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. ALL CELLS CONTAINING REINFORCEMENT OR ANCHORING DEVICES (BOLTS, STUDS, ETC.) SHALL BE GROUTED. CELLS TO BE GROUTED SHALL BE THOUROUGHLY CLEANED OF ALL DEBRIS AND EXCESSIVE MORTAR PROJECTIONS. VERTICAL CELL GROUTING SHALL BE PLACED IN LIFTS NOT EXCEEDING 4 FEET AND SHALL BE CONSOLIDATED BY VIBRATION.
4. PROVIDE 2 VERTICAL BARS TO MATCH TYPICAL WALL REINFORCEMENT AT ALL WALL ENDS AND AT ALL CORNERS.
5. RE: ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, INCLUDING WINDOW & DOOR OPENINGS.

GENERAL NOTES: CODES & DESIGN LOADS

CODE:
INTERNATIONAL BUILDING CODE--2003

DESIGN LOADS:

1. **LIVE LOADS**

ROOF	20 PSF	
CEILING JOISTS	10 PSF	
FLOOR	100 PSF	GENERAL

2. **WIND LOADS**

BASIC WIND DESIGN VELOCITY	110 MPH (3-SECOND GUST WIND SPEED)
EXPOSURE: B	IMPORTANCE FACTOR: 1

GENERAL NOTES: FOUNDATION SYSTEM

(THESE NOTES SHALL CONTROL UNLESS OTHERWISE NOTED ON PLANS AND DETAILS.)

SOILS REPORT:

1. REFERENCE:
   REPORT NO: 07G15934 DATED: JUNE 2007
   PREPARED BY: GEOSCIENCE ENGINEERING & TESTING, INC.
2. SOIL DATA:
   PLASTICITY INDEX (PI) OF SURFICIAL SOILS: 29-49
   LIQUID LIMIT: 13-33 POTENTIAL VERTICAL RISE (PVR) : MODERATE
3. ALLOWABLE DESIGN BEARING PRESSURES:
   DEAD & SUSTAINED LIVE LOADS: 2,500 PSF TOTAL LOADS: 3,125 PSF
4. DESCRIPTION OF BEARING SURFACE: VERY SOFT TO VERY STIFF LIGHT BROWN LIGHT GRAY SANDY CLAY.
5. **CONTRACTOR SHALL REVIEW & BECOME THOROUGHLY FAMILIAR W/ THE CONTENTS OF REFERENCED SOILS REPORT, WHICH WILL BE CONSIDERED AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS. ANY PROBLEMS ARISING FROM THE CONTRACTOR'S LACK OF FAMILIARITY WITH SOILS REPORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.**

SUBGRADE PREPARATION AND FILL:

1. STRIP AREAS WITHIN BUILDING LINES TO REMOVE ALL VEGETATION, TOP SOIL AND DEBRIS.
2. FOLLOWING STRIPPING, PROOF ROLL EXPOSED SUBGRADE TO IDENTIFY WEAK OR SOFT AREAS. SUCH ZONES SHALL BE REMOVED AND REPLACED WITH SELECT FILL.
3. GRADE AREA TO PREVENT PONDING OF WATER. DO NOT ALLOW EXPOSED SUBGRADE TO DRY.
4. ALL FILL SHALL BE SELECT MATERIALS FOLLOWS:
   CLEAN SANDY CLAY, FREE OF ORGANIC MATTER
   PLASTICITY INDEX (PI) : 7 TO 20 % LIQUID LIMIT: 28 TO 40 %
5. FILL SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF 8 INCHES AND COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR (ASTM D698 MAXIMUM DRY DENSITY AT OR 2 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT).
6. PROVIDE 6-8" LOOSE LIFTS OF COMPACTED FILL (TOTAL COMPACTED FILL THICKNESS = 30") AND 2" LEVELING SAND. (NOTE THAT EXISTING GRADE MAY HAVE TO BE CUT TO ACHIEVE THE COMPACTED FILL DEPTH SPECIFIED HEREIN.)
7. CONTRACTOR/ BUILDER SHALL AVOID, AS MUCH AS POSSIBLE, PLACEMENT OF GRADE BEAM TRENCH CUTTINGS UNDER SLAB AREAS. AS A MINIMUM, ALL PERIMETER GRADE BEAM TRENCH CUTTINGS SHALL BE DISPOSED OUTSIDE SLAB AREAS.
8. **TESTING: ALL COMPACTED FILL SHALL BE TESTED BY A CERTIFIED TESTING AGENCY AT THE RATE OF ONE TEST PER 1,000 SQUARE FEET OF EACH LIFT.**

ON-SITE SOILS DO NOT MEET THE REQUIREMENTS FOR SELECT FILL MATERIAL & MAY NOT BE USED AS SELECT FILL.

SURFACE DRAINAGE:

THE FOLLOWING DRAINAGE PRECAUTIONS SHOULD BE OBSERVED DURING CONSTRUCTION AND AT ALL TIMES AFTER THE STRUCTURE HAS BEEN COMPLETED. BUILDER SHALL ADVISE OWNER OF THESE PRECAUTIONS.

1. BACKFILL AROUND THE STRUCTURE SHOULD BE A COHESIVE SOIL MATERIAL WHICH SHOULD BE MOISTENED AND COMPACTED TO AT LEAST NINETY (90) PERCENT OF STANDARD PROCTOR DENSITY. ANY COHESIONLESS SOIL MATERIAL ACCUMULATED AROUND THE PERIMETER OF THE STRUCTURE DURING CONSTRUCTION SHOULD BE REMOVED AND NOT ALLOWED TO BE MIXED WITH OR COVERED BY THE BACKFILL MATERIAL.
2. THE GROUND SURFACE SURROUNDING THE EXTERIOR OF THE STRUCTURE SHOULD BE SLOPED TO DRAIN AWAY FROM THE STRUCTURE IN ALL DIRECTIONS FOR A MINIMUM DISTANCE OF FIVE (5) FEET (OR DISTANCE TO PROPERTY LINE, WHICHEVER IS LESS), WITH A MINIMUM OF FIVE (5) PERCENT (5) SLOPE. WATER SHOULD NOT BE ALLOWED TO POND NEXT TO THE STRUCTURE.
3. IN NO SUCH INSTANCE SHALL SURFACE DRAINAGE BE ALLOWED TO CROSS OVER ANY SIDE OR BACK PROPERTY LINES UNLESS A COMMON DRAINAGE AGREEMENT OR COMMON AREA AGREEMENT IS IN FORCE.
4. WHERE LANDSCAPING IS TO BE INSTALLED NEXT TO PERIMETER GRADE BEAMS, A MOISTURE BARRIER OR OTHER SUITABLE MEANS SHOULD BE INSTALLED TO PREVENT MOISTURE FROM ENTERING THE UNDERLYING CLAY SOILS.
5. ROOF DOWNSPOUTS AND DRAINS SHOULD DISCHARGE WELL AWAY FROM THE LIMITS OF THE FOUNDATIONS OR EDGE OF PERIMETER GRADE BEAMS.

CONCRETE:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "ACI STANDARD BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE: (ACI 318-99)".
2. NORMAL WEIGHT CONCRETE (W = 145 PCF) WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH ($f'c$) = 3000 PSI.
3. CONCRETE SHOULD BE PLACED IN THE FOOTING EXCAVATIONS AS SOON AS POSSIBLE BUT NO LATER THAN THREE HOURS AFTER EXCAVATION TO MINIMIZE THE POSSIBILITY OF CAVING OF DRILLED PIERS.
4. CLEAN TOPS OF PIERS AND BOTTOM OF GRADE BEAM TRENCHES THOROUGHLY PRIOR TO PLACEMENT OF CONCRETE IN THE GRADE BEAMS.

REINFORCING STEEL:

1. BARS - CONFORM TO ASTM A-615-GRADE 60, DOWELS AND STIRRUPS - GRADE 40.
2. WELDED WIRE FABRIC - CONFORM TO ASTM A-185 OR A-409, FURNISHED IN FLAT SHEETS AND MUST BE SUPPORTED ON CHAIRS SPACED 4'-0" O.C. MAXIMUM EACH WAY.
3. DETAILING - CONFORM TO ACI DETAILING MANUAL, 315-80.
4. REINFORCING STEEL COVERAGE (PRIMARY REINFORCEMENT BARS) :
   FOOTINGS ..... 3" BOTTOM AND SIDES
   GRADE BEAMS ..... 1 1/2" TOP, 3" BOTTOM, 2" SIDES (2 1/2" SIDES IF EARTH FORMED)
   SLABS ON GRADE .. 1 1/4" TOP
   WALLS ..... 1/2"
5. LAP CONTINUOUS REINFORCING STEEL 36 BAR DIAMETERS.
6. SLAB REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS, @ A 4'-0" MAXIMUM SQUARE GRID.
7. GRADE BEAM BOTTOM REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS @ 6'-0" MAXIMUM SPACING.

PIPING PENETRATIONS:

1. ALL PIPING PENETRATIONS THROUGH EXTERIOR GRADE BEAMS SHALL BE SLEEVED WITH SCHEDULE 40 PIPE.

PLAN NOTES

1. ALL DRILLED PIERS ARE 12/36 (U.O.N.)
2. RE: SHEET S2.1 FOR FOUNDATION SECTIONS & DETAILS.

5' 0" 10'
SCALE: 1/8 INCH = 1 FOOT
GRAPHIC SCALE

ISSUE HISTORY		REVISIONS	
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07/26/07	PERMIT		
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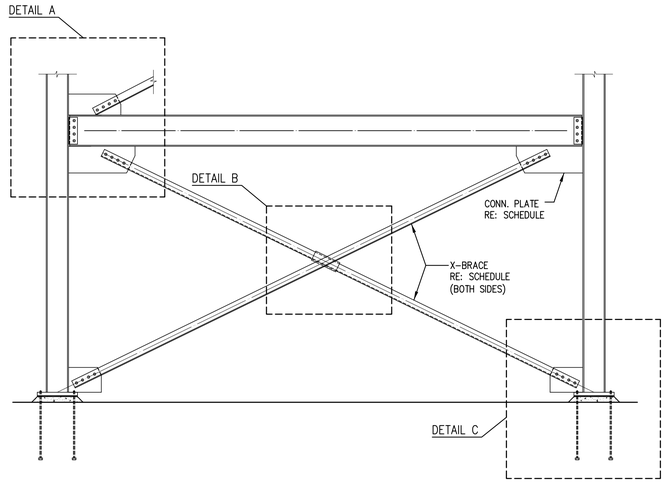
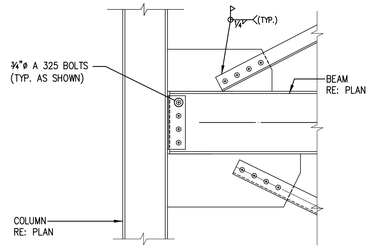
MILAGRO BUILDING COMPANY
PROPOSED NEW RETAIL CENTER
AIRLINE DRIVE @ 28TH STREET
HOUSTON, TEXAS

FOUNDATION PLAN

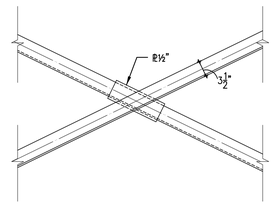
DRAWN BY: RT	DATE: 07/05/07	SHEET: S1.1 OF: 6
CHECKED BY: MFQ	PROJ. NO.: 07038.10	



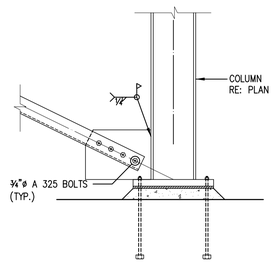
ELEVATION



DETAIL A

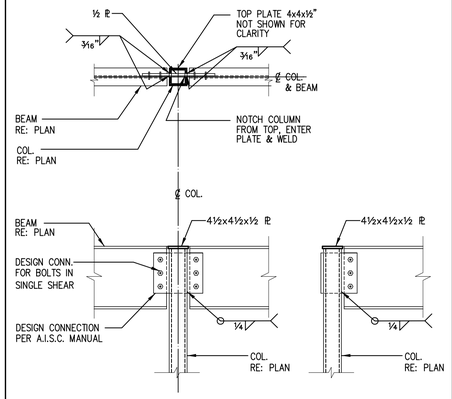


DETAIL B

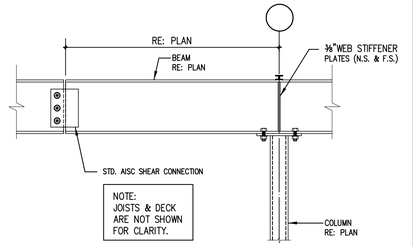


DETAIL C

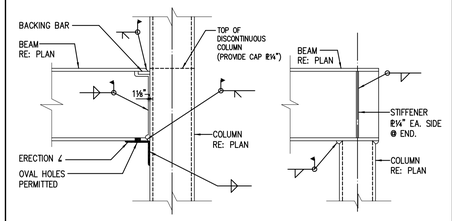
TYPICAL CROSS-BRACING DETAILS



TYPICAL BEAM-TO-COLUMN CONNECTION



CANTILEVER BEAM DETAILS



TYPICAL DETAILS: WELDED MOMENT CONNECTION

12" 0" 1' 2'

SCALE: 3/4 INCH = 1 FOOT

GRAPHIC SCALE

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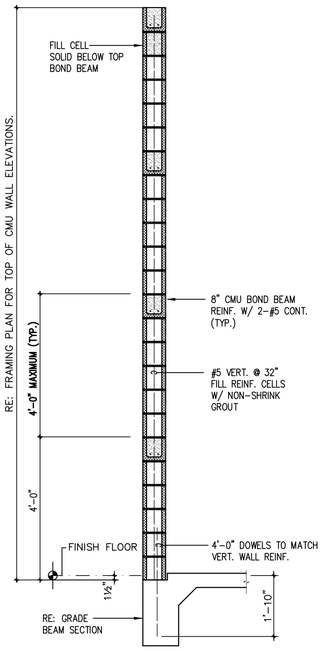
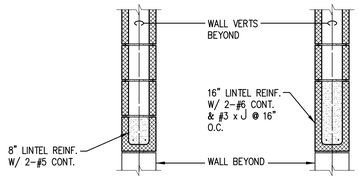
X-BRACEING DETAILS

DRAWN BY: RT	DATE: 07/05/07	SHEET: S2.4 OF: 6
CHECKED BY: MFQ	PROJ. NO.: 07038.10	

TYPICAL CMU WALL DETAILS



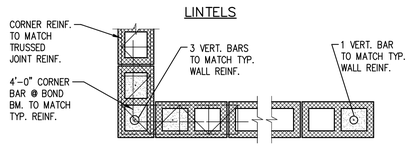
TYPICAL CMU WALL REINFORCEMENT DETAILS



OPENINGS 6'-0" OR SMALLER OPENINGS LARGER THAN 6'-0"

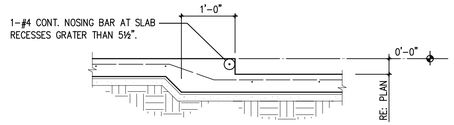
NOTES:
1. PROVIDE 8" MIN. BEARING OF LINTEL BEAM @ EACH END.
2. SHORE LINTELS FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
3. PROVIDE 1 TYPICAL VERT. BAR FULL HEIGHT OF WALL @ EACH JAMB.

LINTELS

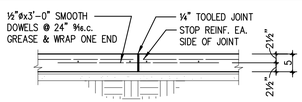


CORNER OPENING/END

TYPICAL CMU WALL REINFORCMENT DETIALS

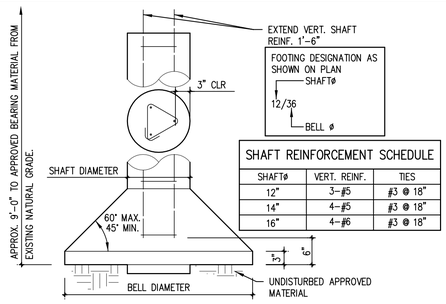


TYPICAL SLAB RECESS DETAIL



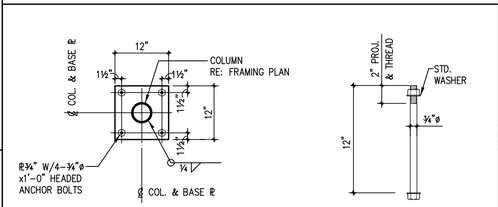
SLAB JOINT

TYPICAL SLAB JOINT DETAILS

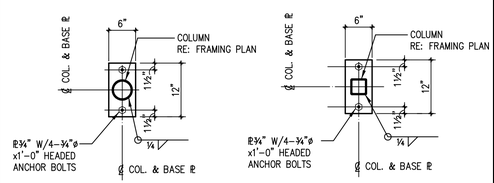


SHAFT REINFORCEMENT SCHEDULE		
SHAFTø	VERT. REINF.	TIES
12"	3-#5	#3 @ 18"
14"	4-#5	#3 @ 18"
16"	4-#6	#3 @ 18"

TYPICAL BELLED PIER

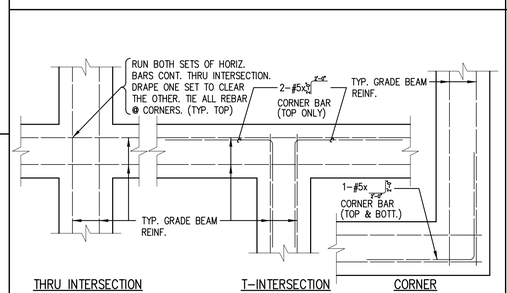


TYPE A TYPICAL ANCHOR BOLT



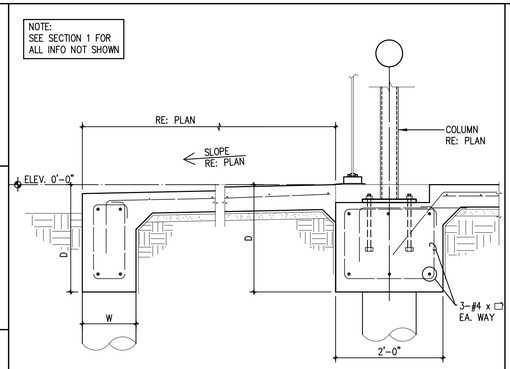
TYPE B TYPE C

TYPICAL BASE PLATE DETAILS

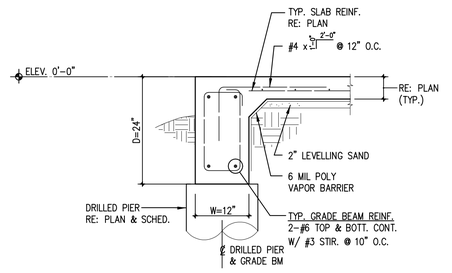


THRU INTERSECTION T-INTERSECTION CORNER

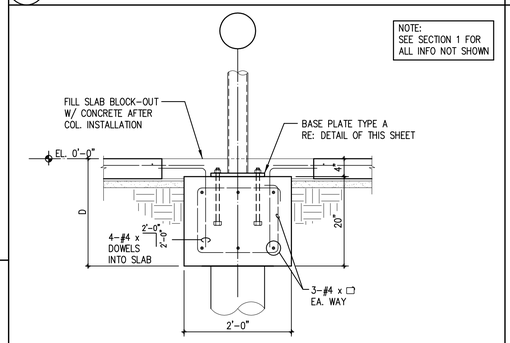
TYPICAL REINFORCEMENT DETAILS @ GRADE BEAM INTERSECTIONS



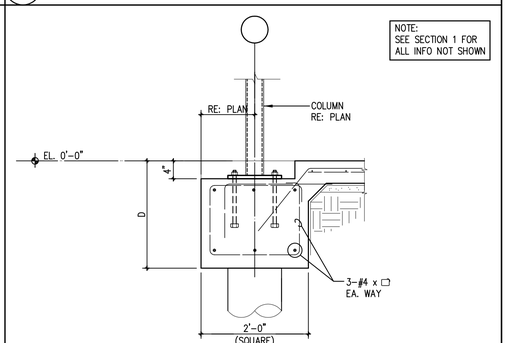
5 SECTION: COLUMN PILASTER @ STORE FRONT



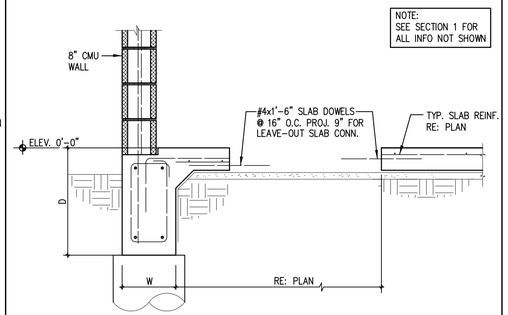
1 SECTION: TYPICAL GRADE BEAM



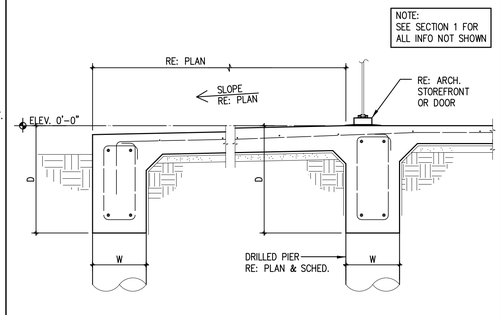
6 SECTION: TYPICAL INTERIOR COLUMN PLINTH



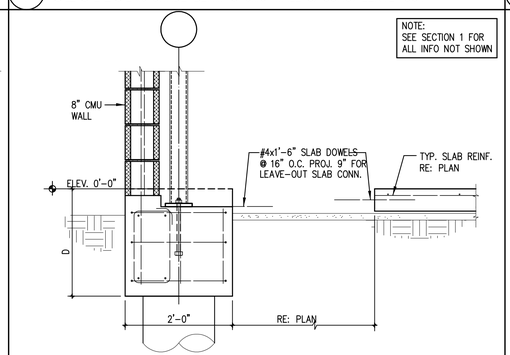
2 SECTION: TYPICAL EXTERIOR COLUMN PLINTH



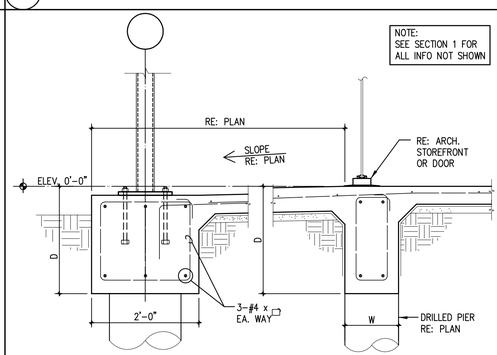
7 SECTION: GRADE BEAM @ CMU WALL & CONC. LEAVE-OUT



3 SECTION: GRADE BEAM @ STORE FRONT



8 SECTION: COLUMN PLINTH @ CMU WALL & CONC. LEAVE-OUT



4 SECTION: GRADE BEAM @ STORE FRONT

12" 0" 1' 2'
SCALE: 3/4 INCH = 1 FOOT

GRAPHIC SCALE

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DATE	DESCRIPTION
	CLIENT REVIEW		
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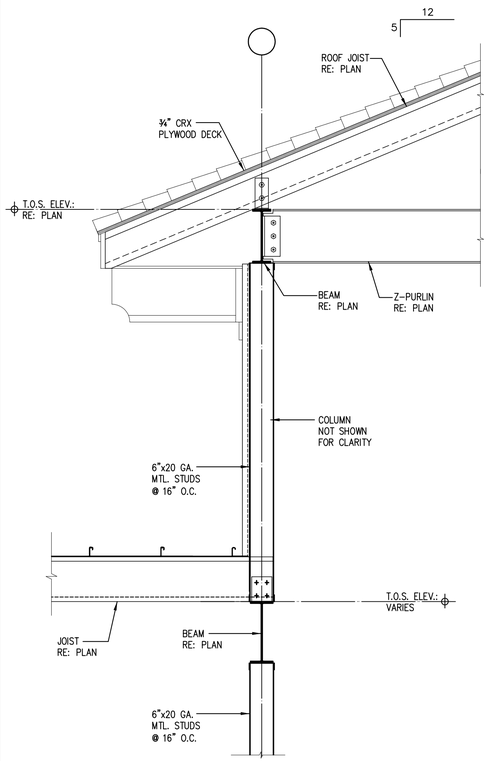
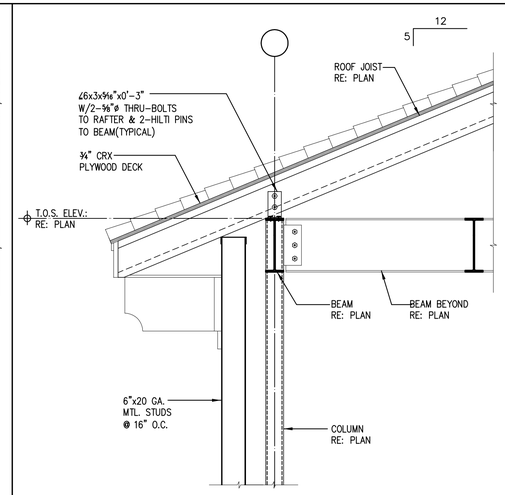
MILAGRO BUILDING COMPANY
PROPOSED NEW RETAIL CENTER
AIRLINE DRIVE @ 28TH STREET
HOUSTON, TEXAS

FOUNDATION SECTIONS & DETAILS

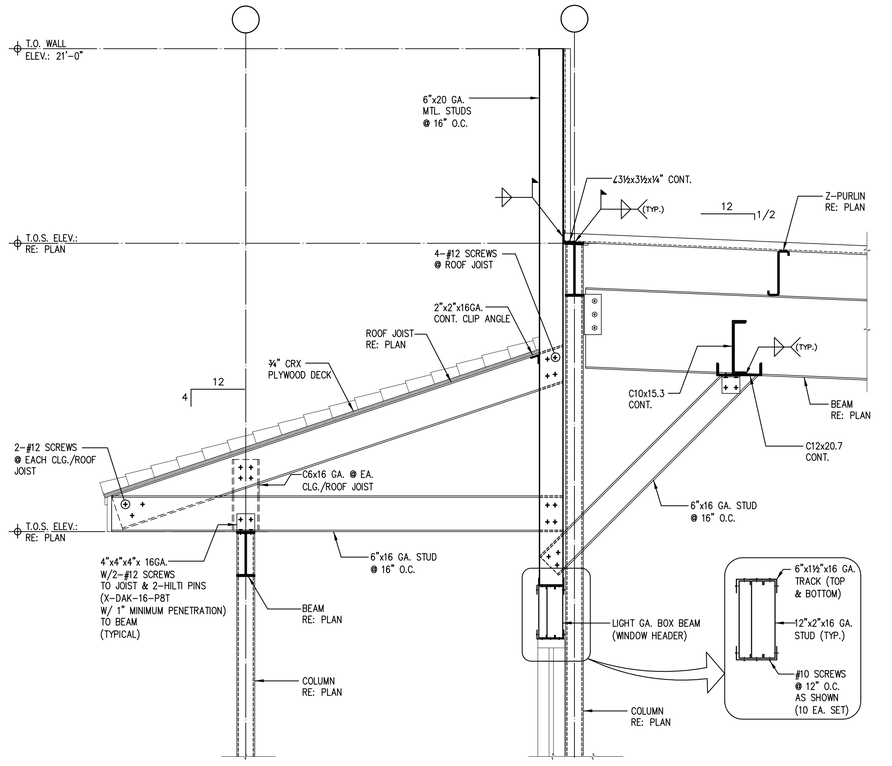
DRAWN BY: RT	DATE: 07/05/07	SHEET: S2.1 OF: 6
CHECKED BY: MFQ	PROJ. NO.: 07038.10	



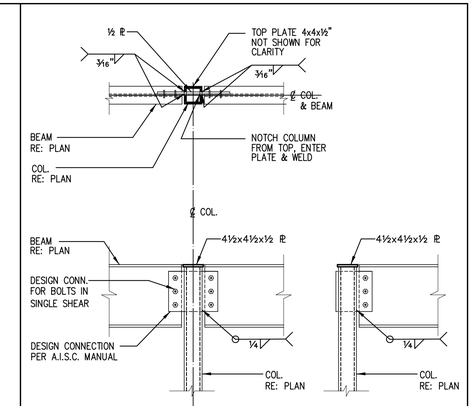
6 SECTION: FRAMING @ TOWER ROOF



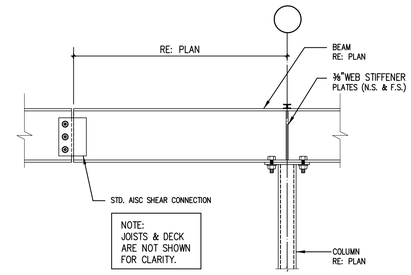
3 SECTION: FRAMING @ SIDE STUD WALL



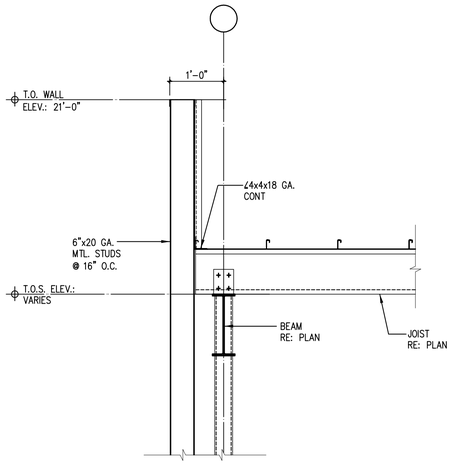
1 SECTION: FRAMING @ STORE FRONT



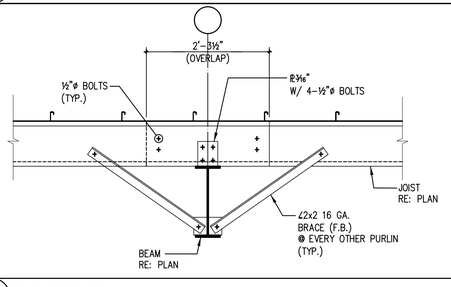
TYPICAL BEAM-TO-COLUMN CONNECTION



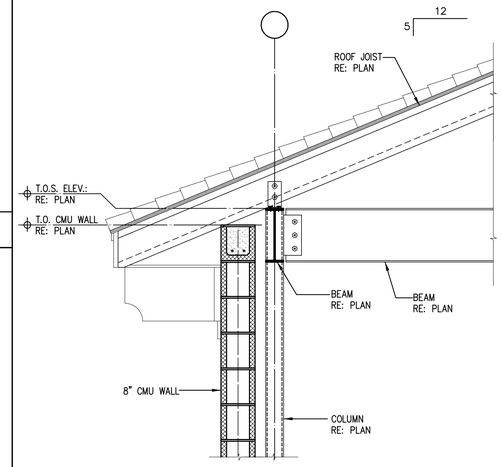
CANTILEVER BEAM DETAILS



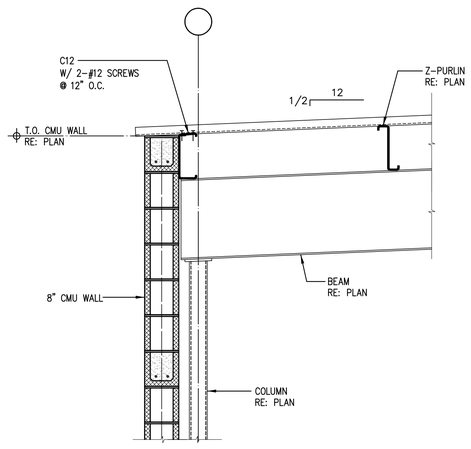
7 SECTION: FRAMING @ SIDE WALL



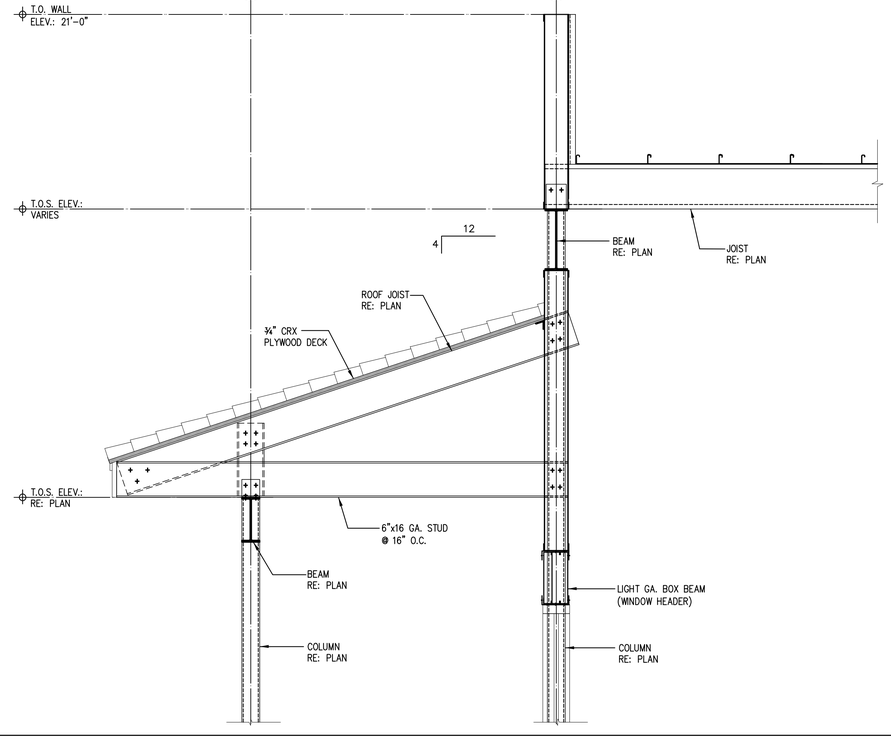
8 SECTION: Z-PURLINS BEARING @ BEAM



4 SECTION: FRAMING @ HIGH REAR CMU WALL



5 SECTION: FRAMING @ REAR CMU WALL



2 SECTION: FRAMING @ SIDE WALL

NOTES FOR ALL SECTION & DETAILS

1. MISCELLANEOUS CONNECTION ANGLES & CLIPS ARE SHOWN AT VARIOUS SECTIONS & DETAILS CONTAINED IN THIS & OTHER SHEETS.
2. WHERE SHOWN, THESE MEMBERS SHALL BE 16 GA., & SHALL BE FASTENED TO EA. CONNECTED MEMBER W/ 2-#12 SCREWS, UNLESS A LARGER NUMBER IS SHOWN.

12" 0" 1' 2'
SCALE: 3/4 INCH = 1 FOOT
GRAPHIC SCALE

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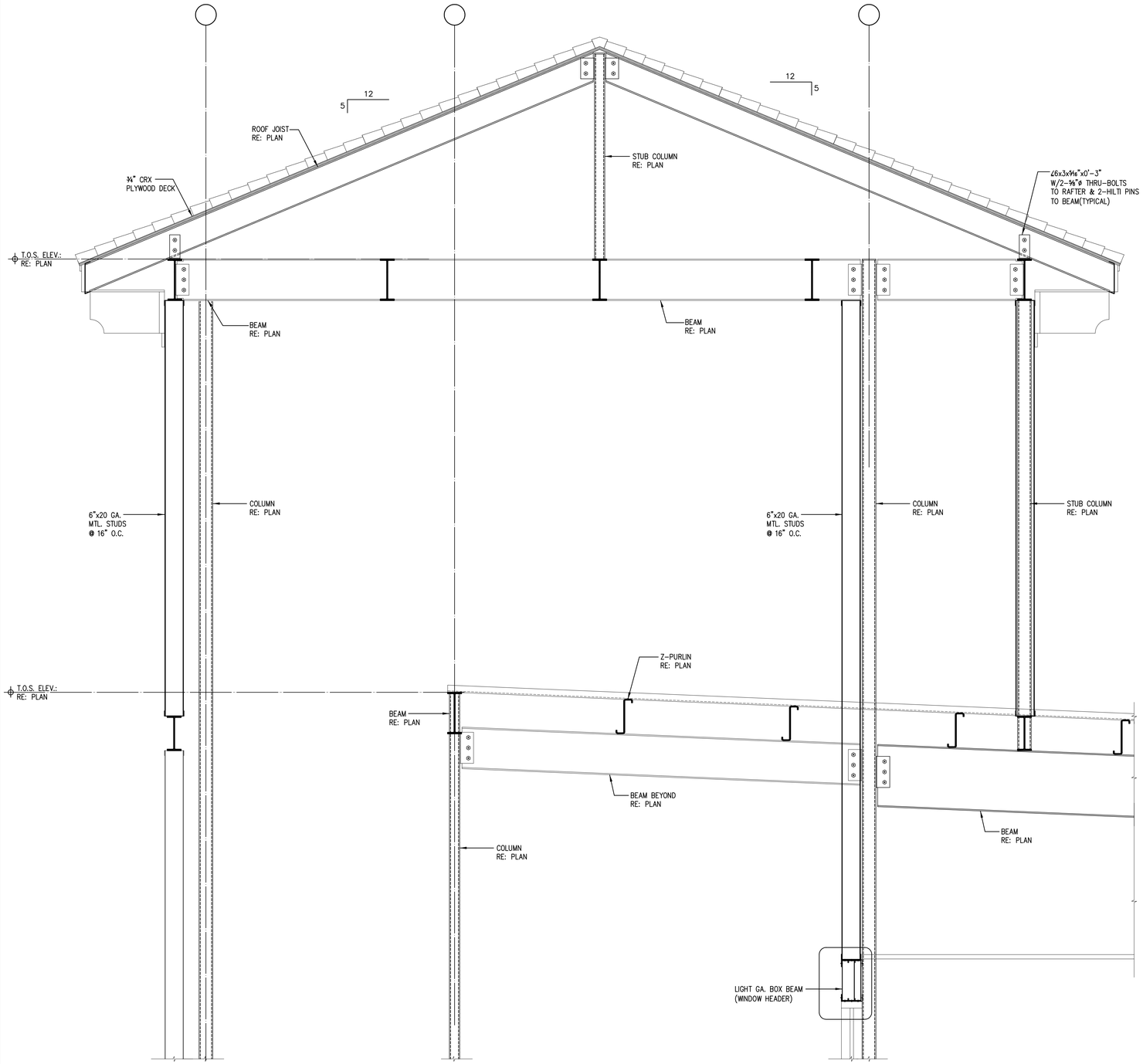
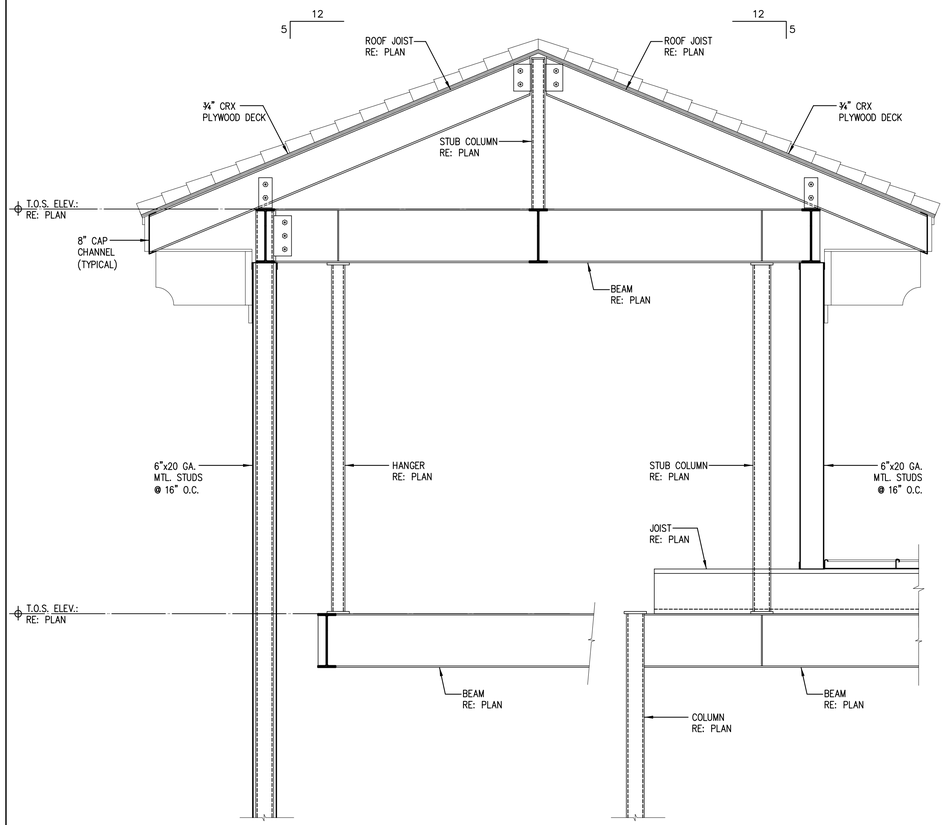
FRAMING SECTIONS

DRAWN BY: RT	DATE: 07/05/07	SHEET: S2.2 OF: 6
CHECKED BY: MFQ	PROJ. NO.: 07038.10	



2 SECTION: FRAMING @ ENTRY TOWER



1 SECTION: FRAMING @ ENTRY TOWER

12" 0" 1' 2'

SCALE: 3/4 INCH = 1 FOOT

GRAPHIC SCALE

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FRAMING SECTIONS

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