



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

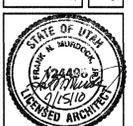
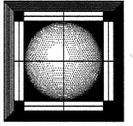
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
NEW BOUNTIFUL, UTAH LIQUOR STORE
550 NORTH 450 WEST, BOUNTIFUL, UTAH

DFCM PROJECT NO. 07270030

SEPTEMBER 2010

CONSTRUCTION DRAWINGS



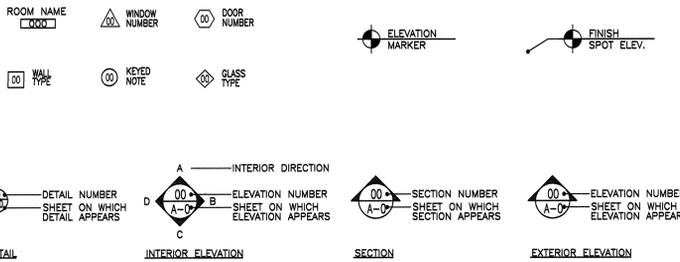


SYMBOLS AND MATERIAL LEGEND

PLAN AND SECTION INDICATIONS

	EARTH		ASPHALT		BATT INSULATION
	GRAVEL FILL		METAL STUD		RIGID INSULATION
	CONCRETE SECTION		ALUMINUM		PLASTIC LAMINATE
	C.M.U.		GYPSUM BOARD		CERAMIC TILE
	BRICK		FINISH LUMBER		ACOUSTIC TILE
	CONCRETE PLAN		WOOD FRAMING		CARPET & PAD
	MARBLE		PLYWOOD		GLASS
	PARTICLE BOARD		PLYWOOD LARGE SCALE		GLASS SMALL SCALE
	FENCE		EXISTING CONTOUR		FINISH CONTOUR

SHEET TAGS



ABBREVIATIONS

ADJ. ADJUSTABLE	AT. ADJUSTABLE	JAN. JOINT	JANITOR
A.D. ADJACENT	ADJ. ADJACENT	J.L. JOINT LAMINATE	J.L. JOINT LAMINATE
A.F.F. ABOVE FINISHED FLOOR	ANCH. ANCHOR BOLT	M.S. MASONRY	M.S. MASONRY
ALT. ALTERNATE	ALUM./AL. ALUMINUM	MAX. MAXIMUM	MAX. MAXIMUM
BRD./BD. BOARD	BLK. BLOCK (BLOCKING)	MECH. MECHANICAL	MECH. MECHANICAL
B.L.D.G. BUILDING	B.M. BENCH MARK	MFR. MANUFACTURER	MFR. MANUFACTURER
B.O.T./BTM. BOTTOM	B.O.T./BTM. BOTTOM	MIN. MINIMUM	MIN. MINIMUM
CAB. CABINET	C.C. CLEAN OUT	M.O. MASONRY OPENING	M.O. MASONRY OPENING
C.O. CONTROL JOINT	C.C. CLEAN OUT	MTL. METAL	MTL. METAL
C.I. CENTER LINE	C.C. CLEAN OUT	N.I.C. NOT IN CONTRACT	N.I.C. NOT IN CONTRACT
C.L.G. CEILING	C.O. CONTROL JOINT	NO. NUMBER	NO. NUMBER
C.M.U. CONCRETE MASONRY UNIT	C.L. CENTER LINE	O.C. ON CENTER	O.C. ON CENTER
COL. COLUMN	C.C. CLEAN OUT	O.D. OUTSIDE DIAMETER	O.D. OUTSIDE DIAMETER
CONC. CONCRETE	C.C. CLEAN OUT	O.H. OVER HEAD	O.H. OVER HEAD
CONTD. CONTINUED	C.C. CLEAN OUT	OPNG. OPENING	OPNG. OPENING
CONST. CONSTRUCTION	C.C. CLEAN OUT	OPP. OPPOSITE	OPP. OPPOSITE
CONT. CONTINUOUS	C.C. CLEAN OUT	OV. OVER	OV. OVER
CONTR. CONTRACTOR	C.C. CLEAN OUT	P.L. PLASTIC LAMINATE	P.L. PLASTIC LAMINATE
COTG. CLEAN OUT TO GRADE	C.C. CLEAN OUT	P.L. PLATE	P.L. PLATE
Ø/DIA. DIAMETER	C.C. CLEAN OUT	P.W.D. PLYWOOD	P.W.D. PLYWOOD
DET. DETAIL	C.C. CLEAN OUT	P.Y. PAINTED	P.Y. PAINTED
D.F. DOWN	C.C. CLEAN OUT	P.TD. PAINTED	P.TD. PAINTED
D.W.G.S. DRAWINGS	C.C. CLEAN OUT	P.VMT. PAVEMENT	P.VMT. PAVEMENT
EA. EACH	C.C. CLEAN OUT	Q.T. QUARRY TILE	Q.T. QUARRY TILE
E.J. EXPANSION JOINT	C.C. CLEAN OUT	R. R/R	R. R/R
ELEV./EL. ELEVATION	C.C. CLEAN OUT	R.C.P. REINFORCED CONCRETE PIPE	R.C.P. REINFORCED CONCRETE PIPE
ELEV. ELEVATOR	C.C. CLEAN OUT	R.O.D. ROOF DRAIN	R.O.D. ROOF DRAIN
E.J. EXPANSION JOINT	C.C. CLEAN OUT	REIN. REINFORCEMENT	REIN. REINFORCEMENT
ENL. ENLARGED	C.C. CLEAN OUT	REQ. REQUIRED	REQ. REQUIRED
EQU. EQUIPMENT	C.C. CLEAN OUT	R.M. ROOM	R.M. ROOM
E.W.C. ELECTRIC WATER COOLER	C.C. CLEAN OUT	R.O. ROUGH OPENING	R.O. ROUGH OPENING
EXIST. EXISTING	C.C. CLEAN OUT	SECT. SECTION	SECT. SECTION
EXT. EXTERIOR	C.C. CLEAN OUT	SEC. SECTION	SEC. SECTION
F.D. FLOOR DRAIN	C.C. CLEAN OUT	SHT. SHEET	SHT. SHEET
F.E.C. FIRE EXTINGUISHER CABINET	C.C. CLEAN OUT	SIM. SIMILAR	SIM. SIMILAR
F.F. FINISH FLOOR	C.C. CLEAN OUT	SQ. SQUARE	SQ. SQUARE
F.H. FIRE HYDRANT	C.C. CLEAN OUT	S.S. SPECIFICATION	S.S. SPECIFICATION
FL. FLOOR	C.C. CLEAN OUT	S.S. STAINLESS STEEL	S.S. STAINLESS STEEL
FOOT. FOOT	C.C. CLEAN OUT	S.T.D. STANDARD	S.T.D. STANDARD
F.V. FIELD VERIFY	C.C. CLEAN OUT	STL. STEEL	STL. STEEL
G. GALV.	C.C. CLEAN OUT	STR. STRUCTURAL	STR. STRUCTURAL
G./GALV. GALVANIZED	C.C. CLEAN OUT	STRUC. STRUCTURAL	STRUC. STRUCTURAL
G.B. GYPSUM BOARD	C.C. CLEAN OUT	SUSP. SUSPENDED	SUSP. SUSPENDED
GYP. BRD. GYPSUM BOARD	C.C. CLEAN OUT	T.B. TACK BOARD	T.B. TACK BOARD
H.B. HOSE BIBB	C.C. CLEAN OUT	T.O. TOP OF	T.O. TOP OF
H.C. HANDICAPPED HEAD	C.C. CLEAN OUT	T.O.A. TOP OF ASPHALT	T.O.A. TOP OF ASPHALT
H.D. HOLLOW METAL	C.C. CLEAN OUT	T.O.B. TOP OF BEAM	T.O.B. TOP OF BEAM
H.M. HOLLOW METAL	C.C. CLEAN OUT	T.O.C. TOP OF CONCRETE	T.O.C. TOP OF CONCRETE
H.R. HOUR	C.C. CLEAN OUT	T.O.C. TOP OF CURB	T.O.C. TOP OF CURB
H.T. HEIGHT	C.C. CLEAN OUT	T.O.M. TOP OF MASONRY	T.O.M. TOP OF MASONRY
I.D. INSIDE DIAMETER	C.C. CLEAN OUT	T.O.S. TOP OF SLAB	T.O.S. TOP OF SLAB
IN. INCH	C.C. CLEAN OUT	T.O.W. TOP OF WALL	T.O.W. TOP OF WALL
INCMG. INCOMING	C.C. CLEAN OUT	TY. TYPICAL	TY. TYPICAL
INFO. INFORMATION	C.C. CLEAN OUT	U.N.O. UNLESS NOTED OTHERWISE	U.N.O. UNLESS NOTED OTHERWISE
INSUL. INSULATION	C.C. CLEAN OUT	V.C.T. VINYL COMPOSITION TILE	V.C.T. VINYL COMPOSITION TILE
INT. INTERIOR	C.C. CLEAN OUT	V.T. VINYL TILE	V.T. VINYL TILE
INV. INVERT	C.C. CLEAN OUT	W. WITH	W. WITH
		W.W.M. WELDED WIRE MESH	W.W.M. WELDED WIRE MESH
		W.W.F. WELDED WIRE FABRIC	W.W.F. WELDED WIRE FABRIC
		WOOD. WOOD	WOOD. WOOD
		WIN. WINDOW	WIN. WINDOW
		VEST. VESTIBULE	VEST. VESTIBULE
		VDT. VIDEO DISPLAY TERMINAL	VDT. VIDEO DISPLAY TERMINAL

CODE CRITERIA

CODE ANALYSIS

APPLICABLE CODES

Year	Code	Year	Code
2008	International Building Code	2008	National Electrical Code
2008	International Mechanical Code	2008	Uniform Code for Building Occupancy
2008	International Plumbing Code	2010	Building Conservation Code
2008	International Fire Code	2008	ADA Accessibility Guidelines
2010	International Energy Conservation Code	2010	International Energy Conservation Code

A. Occupancy and Group: M - S-1
 Change in Use: Yes No Mixed Occupancy: Yes No
 Special Use and Occupancy (e.g. High Rise, Covered Mall): _____

B. Seismic Design Category: D Design Wind Speed: 80 mph

C. Type of Construction (circle one):
 I II III IV V VI VII VIII IX X XI XII XIII XIV XV XVI XVII XVIII XIX XX XXI XXII XXIII XXIV XXV XXVI XXVII XXVIII XXIX XXX

D. Fire Resistance Rating: Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: NA South: NA East: NA West: NA

E. Mixed Occupancies: _____ Nonseparated Uses: _____

F. Sprinklers: Required: Provided: Type of Sprinkler System: AUTOMATIC
 INSTALLED PER NFPA 13 Standard for the Installation of Sprinkler Systems

G. Number of Stories: 1 Building Height: 1
 Actual Area per Floor (square feet): 13,139 S.F.

H. Tabular Area: 9000 SQ. FT.

J. Area Modifications:
 $A_1 = A_2 \times \left[\frac{A_1 + 1}{100} \right] \left[\frac{A_2 + 1}{100} \right]$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$
 $A_1 = 27000 = 9000 + \left[\frac{9000 \times 0.00}{100} \right] \left[\frac{9000 \times 3}{100} \right]$ $0.00 = 100 \left[\frac{133}{533} - 0.25 \right] \frac{30}{30}$

K. Fire Resistance Rating Requirements for Building Elements (hours):

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frames	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	0	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions	0	

L. Design Occupant Load: 124
 Exit Width Required: 2 DOORS @ 36 = 72 Exit Width Provided: 180

M. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
 b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
 c) Bath Tubs or Showers: 0
 d) Drinking Fountains: 2 Service Sinks: 1

FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Register Part 1 through 3, ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 a) High Rise Requirements. b) Atriums. c) Means of Egress Analysis.
 d) Performance Based Criteria. e) Means of Egress Analysis.
 f) Fire Assembly Locator Sheet. g) Exterior and Interior Accessibility Route.
 h) Fire Stopping, including Tested Design Number.

DEFERRED SUBMITTALS

1. CONCRETE MIX DESIGN	DUE WITHIN 30 DAYS OF CONTRACT AWARD
2. OPEN WEB STEEL JOIST, GIRDERS, AND DECK	DUE WITHIN 45 DAYS OF CONTRACT AWARD
3. AUTOMATIC FIRE SPRINKLING SYSTEM PER NFPA 13	DUE WITHIN 45 DAYS OF CONTRACT AWARD
4. PRECAST CONCRETE	DUE WITHIN 45 DAYS OF CONTRACT AWARD
5. LANDSCAPE SPRINKLING	DUE WITHIN 45 DAYS OF CONTRACT AWARD
6. SYNTHETIC STUCCO	DUE WITHIN 80 DAYS OF CONTRACT AWARD

COVER SHEETS

- G001 COVER SHEET
- G002 SCHEDULE OF DRAWINGS, MOUNTING STANDARDS, CODE REVIEW
- G003 SPECIAL INSPECTION REQUIREMENTS
- G004 SITE SURVEY

SITE DEVELOPMENT

- AS101 SITE PLAN
- AS102 SITE GRADING PLAN
- AS103 SITE UTILITY PLAN
- AS501 SITE DETAILS
- LS101 LANDSCAPING PLAN

ARCHITECTURAL

- A101 FLOOR PLAN
- A102 REFLECTED CEILING PLAN
- A103 ROOF PLAN, SECTIONS AND DETAILS
- A104 INTERIOR ELEVATIONS AND MISCELLANEOUS INTERIOR DETAILS
- A105 INTERIOR ELEVATIONS AND MISCELLANEOUS DETAILS
- A106 ENLARGED FLOOR PLANS AND DETAILS
- A201 EXTERIOR ELEVATIONS
- A202 EXTERIOR ELEVATIONS
- A301 WALL SECTIONS
- A302 WALL SECTIONS
- A303 WALL SECTIONS
- A304 WALL SECTIONS
- A305 WALL SECTIONS
- A306 WALL SECTIONS
- A501 MISCELLANEOUS DETAILS
- A502 MISCELLANEOUS DETAILS
- A601 DOOR AND WINDOW SCHEDULES AND TYPES, FINISH SCHEDULE

STRUCTURAL

- S001 STRUCTURAL NOTES
- S101 FOOTING & FOUNDATION PLAN
- S102 ROOF FRAMING PLAN
- S201 STRUCTURAL DETAILS
- S202 STRUCTURAL DETAILS

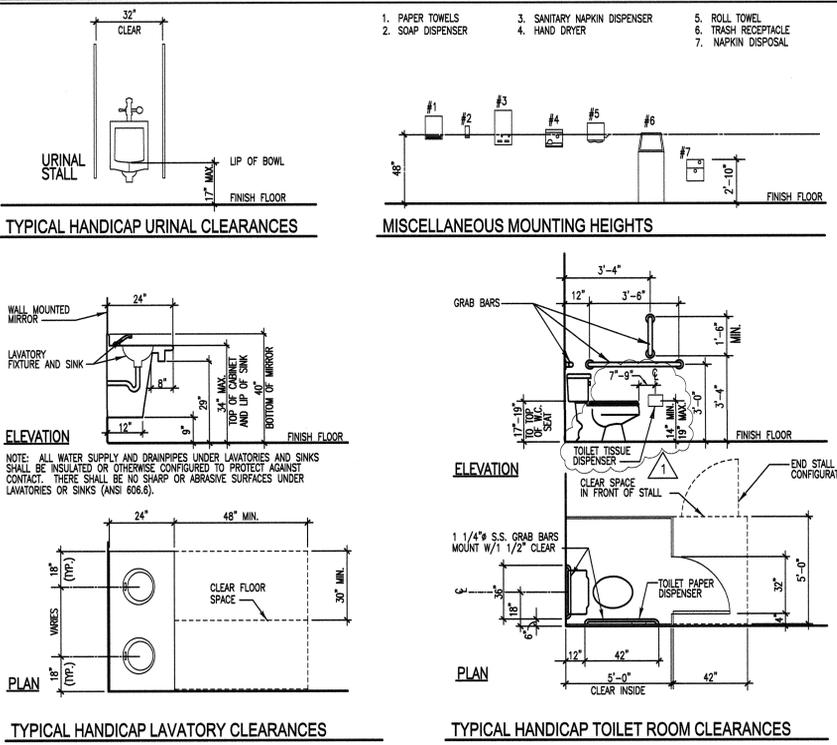
MECHANICAL

- M0.1 MECHANICAL SCHEDULES
- M1.1 MECHANICAL ROOF PLAN
- M2.1 MECHANICAL FLOOR PLAN
- P2.1 PLUMBING FLOOR PLAN
- M6.1 MECHANICAL DETAILS
- M6.2 MECHANICAL DETAILS
- M6.3 MECHANICAL DETAILS
- M6.4 MECHANICAL DETAILS

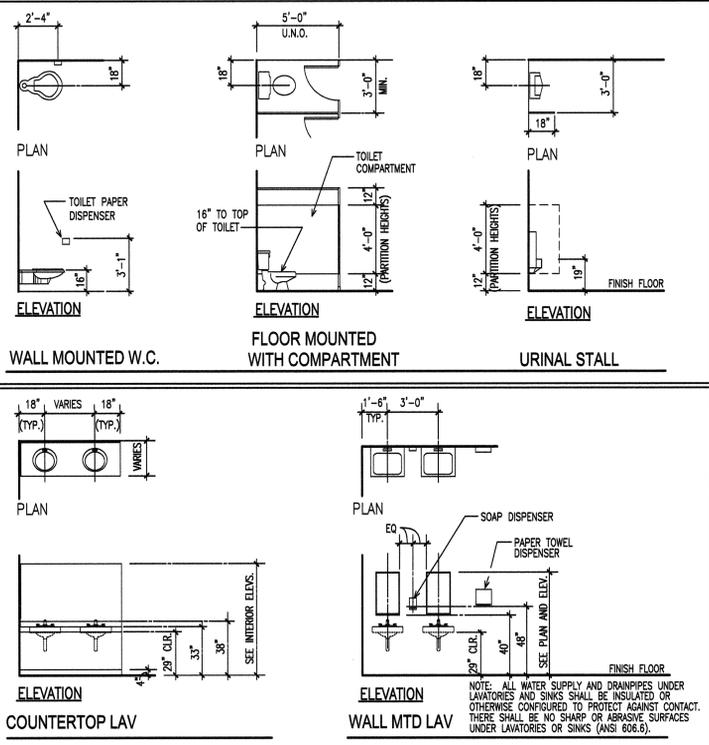
ELECTRICAL

- E100 ELECTRICAL SYMBOLS, NOTES AND LEGENDS
- E101 ELECTRICAL SITE PLAN
- E102 SITE PLAN - PHOTOMETRICS
- E201 FLOOR PLAN - POWER & SYSTEMS
- E202 ROOF PLAN - POWER
- E301 FLOOR PLAN - LIGHTING
- E401 ELECTRICAL RISER DIAGRAMS
- E501 ELECTRICAL SCHEDULES
- E601 ELECTRICAL DETAILS

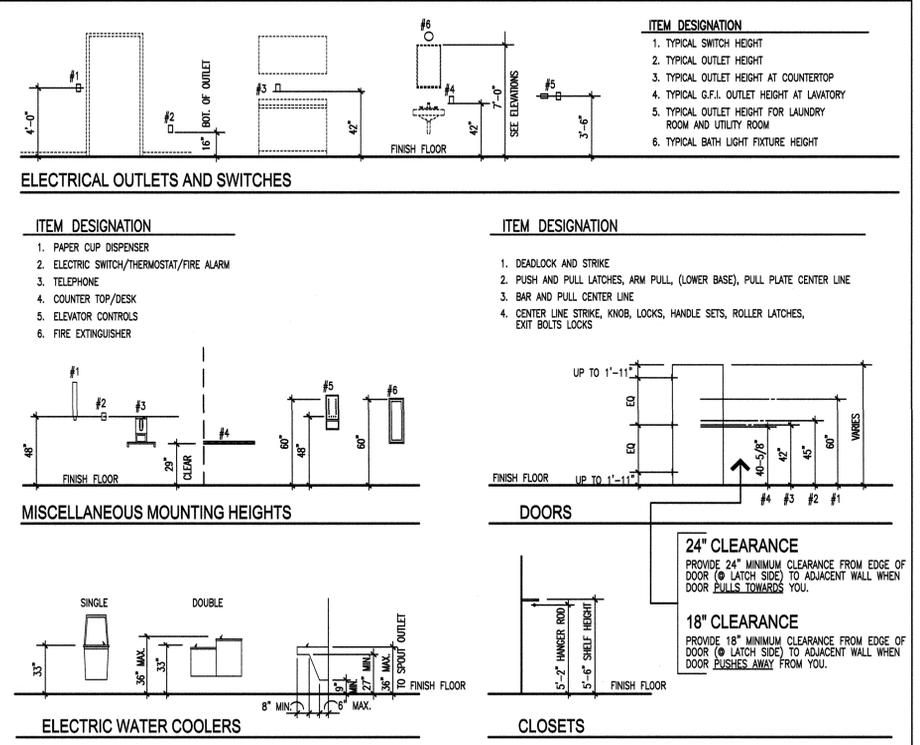
TYPICAL HANDICAP TOILET ROOM MOUNTING STANDARDS



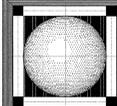
TYPICAL (NON-HANDICAPPED) TOILET ROOM MOUNTING STANDARDS



TYPICAL MISCELLANEOUS MOUNTING STANDARDS



1. MOUNTING HEIGHT FOR TOILET TISSUE DISPENSER ADDED. APPLICABLE CODES CHANGED TO REFERENCE 2008 NEC.



SPECIAL INSPECTION AND TESTING (IBC 1704)

Indicate required Special Inspections for project by checking the appropriate boxes:

FABRICATORS (IBC1704.2)

Approved Fabricator Fabricator's Name: To be selected from DFCM Approved Fabricator List for 2009

Unapproved Fabricator Fabricator's Name: _____

Special Inspections: Steel Construction Welding Details

STEEL (IBC1704.3)

Item Reference/Comments

High Strength Bolting (1704.3.3) Continuous Periodic Verify prior to concealment by other systems/finishes

WELDING (1704.3.1)

Details (1704.3.2)

Complete & partial penetration groove welds Continuous Periodic

Multipass fillet welds Continuous Periodic

Single-pass fillet welds > 5/16" Continuous Periodic

Single-pass fillet welds < 5/16" Continuous Periodic Verify prior to concealment by other systems/finishes

Floor & roof deck welds Continuous Periodic Verify prior to concealment by other systems/finishes

REINFORCEMENT STEEL

Verification of weldability Continuous Periodic

Shear wall and shear reinforcement Continuous Periodic

Other reinforcement Continuous Periodic

Steel frame joint details Continuous Periodic

CONCRETE CONSTRUCTION (IBC1704.4)

Item Reference/Comments

Materials (1704.4.1) Continuous Periodic Verify prior to each concrete pour

Steel placement Continuous Periodic Verify prior to each concrete pour

Steel welding Continuous Periodic

Bolts prior & during placement Continuous Periodic

Use of required design mix Continuous Periodic Verify prior to each concrete pour

Concrete sampling for strength test, slump, air content, and temperature of concrete Continuous Periodic

Concrete & shotcrete placement Continuous Periodic

Curing temperature and techniques Continuous Periodic Verify prior to each concrete pour

Pre-stressed concrete Continuous Periodic

Pre-cast concrete Continuous Periodic

Posttensioned concrete Continuous Periodic

Form work Continuous Periodic Verify prior to each concrete pour

WOOD CONSTRUCTION (IBC1704.6)

Item Reference/Comments

Prefabricated elements & assembly Continuous Periodic

SOILS CONSTRUCTION (IBC1704.7)

Item Reference/Comments

Site preparation Continuous Periodic Verify prior to covering

Structural fill material Continuous Periodic Verify prior to covering

Structural fill lift thickness Continuous Periodic Verify prior to covering

Structural fill soil densities Continuous Periodic

Backfill soils materials Continuous Periodic

Backfill soil densities Continuous Periodic

Fill material under side walks and parking Continuous Periodic

Fill soil densities under side walks and parking Continuous Periodic

PILE FOUNDATIONS (IBC1704.8)

Item Reference/Comments

Observe driving operation and reporting Continuous Periodic

Verify placement & installation data Continuous Periodic

PIER FOUNDATIONS (IBC1704.9)

Item Reference/Comments

Observe drilling operation and reporting Continuous Periodic

Verify placement & installation data Continuous Periodic

SPRAYED FIRE-RESISTANT MATERIALS (IBC1704.10)

Item Reference/Comments

Structural member surface conditions Continuous Periodic

Material application Continuous Periodic

Material thickness Continuous Periodic

Material density Continuous Periodic

Bonding strength Continuous Periodic

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC1704.11)

Item Reference/Comments

Material and installation Continuous Periodic

EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC1704.12)

Item Reference/Comments

Material and installation Continuous Periodic Verify prior to covering

MASONRY CONSTRUCTION (IBC1704.5)

Item Reference/Comments

As masonry construction begins:

Site prepared mortar Continuous Periodic Verify prior to each grout pour

Construction of mortar joints Continuous Periodic Verify prior to each grout pour

Location of reinforcement, connectors, pre-stressing tendons and anchorages Continuous Periodic

Pre-stressing technique Continuous Periodic

Grade and size of pre-stressing tendons and anchorages Continuous Periodic

Inspection program verify:

Size and location of structural elements Continuous Periodic Verify prior to each grout pour

Type, size and location of anchors Continuous Periodic Verify prior to each grout pour

Size, grade and type of reinforcement Continuous Periodic Verify prior to each grout pour

Welding of reinforcement Continuous Periodic

Cold and hot weather protection Continuous Periodic Verify prior to each grout pour

Application and measurement of pre-stressing force Continuous Periodic

Prior to grouting verify:

Clear grout space Continuous Periodic Verify prior to each grout pour

Placement of reinforcement Continuous Periodic Verify prior to each grout pour

Grout mix Continuous Periodic Verify prior to each grout pour

Mortar joints Continuous Periodic Verify prior to each grout pour

Grout placement Continuous Periodic

Grout and mortar specimens and trials Continuous Periodic

Construction and submittal compliance verification Continuous Periodic Verify prior to each grout pour

Empirical masonry - Cat. I-III (1708.1.1) Continuous Periodic

Empirical masonry - Cat. IV (1708.1.1) Continuous Periodic

Engineered masonry - Cat. I-III (1708.1.1) Continuous Periodic

Engineered masonry - Cat. IV (1708.1.1) Continuous Periodic

Engineering & pre-stressing steel (1708.3) Continuous Periodic

Structural steel (1708.4) Continuous Periodic

Qualification of mechanical & electrical equipment (1708.5) Continuous Periodic

Seismically isolated structures (1708.6) Continuous Periodic

Testing for seismic resistance is Continuous Periodic

ALTERNATIVE CONSTRUCTION METHODS OR MATERIALS (IBC1704.13)

Item Reference/Comments

Material and installation Continuous Periodic

EPOXY (IBC1704.13)

Item Reference/Comments

Material and installation Continuous Periodic Verify prior to covering

SMOKE CONTROL (IBC1704.14)

Item Reference/Comments

Material Continuous Periodic

Installation Continuous Periodic

Special inspection for seismic resistance (IBC1707)

Item Reference/Comments

Structural Steel (1707.2) Continuous Periodic

Structural Wood (1707.3) Continuous Periodic

Cold-formed steel framing (1707.4) Continuous Periodic

Pier foundations (1707.5) Continuous Periodic

Storage racks & access floors (1707.6) Continuous Periodic

Architectural components (1707.7) Continuous Periodic

Mechanical & electrical items (1707.8) Continuous Periodic

Designated systems verification (1707.9) Continuous Periodic

Seismic isolation systems (1707.10) Continuous Periodic

Inspection of seismic resistance is not required per IBC 1705.3

OTHER

Item Reference/Comments

_____ Continuous Periodic

_____ Continuous Periodic

- Special Inspectors shall:
- Be approved by the Building Official prior to performing any duties;
 - Provide proof of licensure as a Special Inspector by the State of Utah for each type of inspection;
 - Inspection reports are to meet the requirements of IBC 1704.1.2 and DFCM standards;
 - Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hrs. of inspections;
 - A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the drawings, specifications and applicable codes. IBC 1704.1.2

REVISION # DATE:

DFCM PROJECT NO.: **07270030**

CONSTRUCTION DOCS

FILE NAME: G003.dwg

PLOT SCALE: AS NOTED

DRAWN BY: JRS

CHECKED BY: SP

DATE: SEPT 9, 2010

G003

NEW BOUNTIFUL LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL

BOUNTIFUL, UT

Architect & Associates
FRANK N. MURDOCK JR.
975 East 100 South
Salt Lake City, Utah 84102
TEL: (801) 532-4441 FAX: (801) 532-4920

SPECIAL INSPECTION REQUIREMENTS

SITE INFORMATION

PARKING:
 PARKING STALLS 47 STALLS
 ACCESSIBLE STALLS 2 STALLS
 PARKING TOTALS 49 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
 SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
 SEE SHEET AS103 FOR SITE UTILITY INFORMATION
 SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- | | | | |
|----|------------------------|---|-------------------------|
| SS | SANITARY SEWER | ■ | CATCH BASIN |
| W | WATER LINE | ⊗ | STORM DRAIN MAN HOLE |
| T | TELEPHONE LINE | ⊕ | POWER POLE |
| G | GAS LINE | ⊕ | WATER VALVE |
| C | CABLE T.V. | ⊕ | ELECTRIC BOX |
| ○ | PARKING STALLS | ⊕ | FIRE HYDRANT |
| × | FENCE | ⊕ | SANITARY SEWER MAN HOLE |
| — | EXISTING GRADE CONTOUR | ⊕ | LIGHT POST |
| — | NEW GRADE CONTOUR | ⊕ | STREET LIGHT BOX |
| — | CONTRACT LIMIT LINE | ⊕ | GAS METER |
| — | NEW SECURITY FENCE | ⊕ | TELEPHONE BOX |
| — | | ⊕ | PL PROPERTY LINE |
| — | | ⊕ | L LANDSCAPE AREA |
| — | | ⊕ | SW SIDEWALK |

SIGN TYPES - SEE 2/ASS01

- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- 2 - 4" PVC PIPE SLEEVE

T.O.G TOP OF GRADE
 I.E. INVERT ELEVATION
 T.O.SW TOP OF SIDEWALK
 T.O.PV TOP OF PAVEMENT
 T.O.C TOP OF CONCRETE

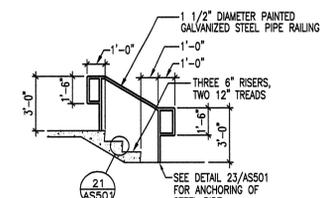
ASPHALT ROADWAY AREAS
 AREAS SHOWN HATCHED
 3.5" THICK ASPHALT PAVING OVER 10" AGGREGATE BASE
 REFER TO 10/ASS01 AND SOILS REPORT
 FOR INFORMATION REGARDING ASPHALT PAVING PROFILE

GENERAL NOTES

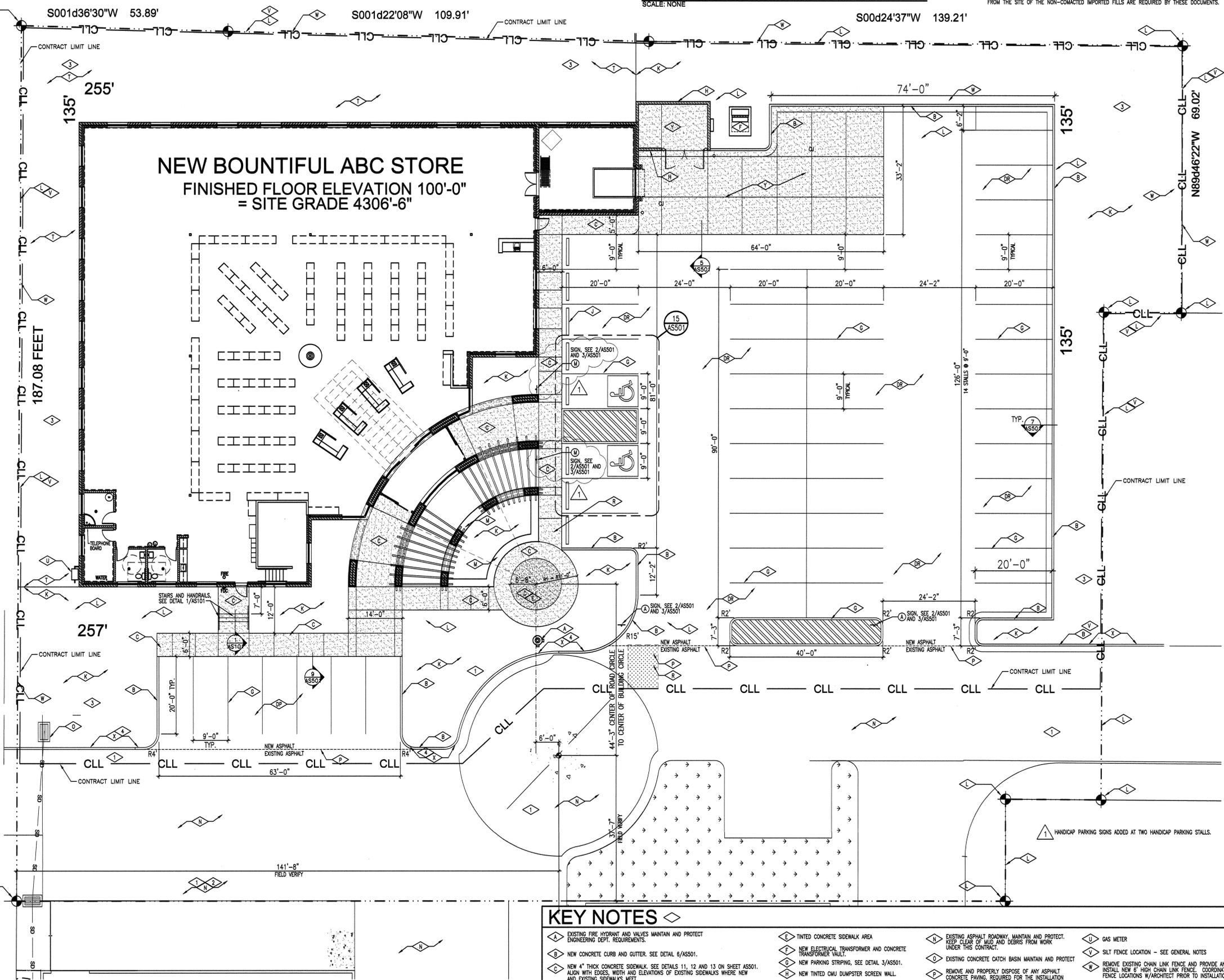
- REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
- CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THE CONTRACT DOCUMENTS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
- CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
- CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT OR CONCRETE PAVEMENT OR RETAINING WALLS.
- PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
- SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
- PROVIDE AND INSTALL SILT FENCE AT THE NORTH, EAST AND SOUTH CONTRACT LIMIT LINES AND AT THE EDGE OF EXISTING ASPHALT ROADWAY AT THE WEST EDGE OF THE PROPERTY. SILT FENCE IS TO EXTEND MINIMUM 5' BELOW GRADE AND MINIMUM 18' ABOVE GRADE. THE CONTRACTOR IS TO PROVIDE A POLLUTION PREVENTION PLAN FOR OFF-SITE WORK AND FOR WORK ON SITE TO THE GOVERNING JURISDICTION.
- DO NOT SCALE THE DRAWINGS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. USE WRITTEN DIMENSIONS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. IF A DIMENSION IS NOT PROVIDED, REQUEST IT FROM THE ARCHITECT.

REFERENCE NOTES

- MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING LANDSCAPING, SIDEWALKS, STORM DRAIN BASIN, ASPHALT AND CURBS AND GUTTERS. MAINTAIN AND PROTECT EXISTING LANDSCAPING TO REMAIN DURING CONSTRUCTION.
- MAINTAIN AND PROTECT EXISTING SITE ELEMENTS ON ADJACENT PROPERTIES. IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTY CAUSED BY WORK ASSOCIATED WITH THIS CONTRACT.
- REMOVE AND PROPERLY DISPOSE OF EXISTING LANDSCAPING INCLUDING ALL TREES AND SHRUBS ON SITE. TYPICAL IN ALL AREAS OF NEW CONSTRUCTION. SEE SOILS REPORT FOR THE DEPTH OF GRUBBING IN THIS AREA.
- SAW CUT, REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND PREPARE FOR NEW CONCRETE DRIVE APPROACH.



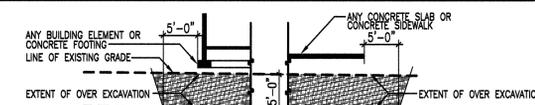
SECTION AT CONCRETE STAIRS
 SCALE: NOT TO SCALE



BOUNTIFUL ABC SITE PLAN
 SCALE: 1" = 10'

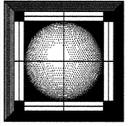
KEY NOTES

- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> EXISTING FIRE HYDRANT AND VALVES MAINTAIN AND PROTECT. ENGINEERING DEPT. REQUIREMENTS. NEW CONCRETE CURB AND GUTTER. SEE DETAIL 6/ASS01. NEW 4" THICK CONCRETE SIDEWALK. SEE DETAILS 11, 12 AND 13 ON SHEET ASS01. ALIGN WITH EDGES, WIDTH AND ELEVATIONS OF EXISTING SIDEWALKS WHERE NEW AND EXISTING SIDEWALKS MEET. JOINTS AS NOTED BELOW TYPICAL UNLESS NOTED OTHERWISE:
 CONTROL JOINT IN CONCRETE SIDEWALK: 5'-0" O.C., SEE DETAIL 12/ASS01.
 EXPANSION JOINT IN CONCRETE SIDEWALK: 20'-0" O.C., SEE DETAIL 13/ASS01. NEW ROADWAY ASPHALT PAVING. SEE DETAIL 10/ASS01 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA. NEW PARKING ASPHALT PAVING. SEE DETAIL 10/ASS01 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA. | <ul style="list-style-type: none"> TINTED CONCRETE SIDEWALK AREA NEW ELECTRICAL TRANSFORMER AND CONCRETE TRANSFORMER VAULT. NEW TINTED CMU DUMPSTER SCREEN WALL. NEW CONCRETE WHEEL STOP. SEE 15/ASS01. NEW LANDSCAPE AREA. SEE SHEET 15-101. STATE-OWNED PROPERTY LINE RAISED PLANTER AREA W/AUTOMATIC LANDSCAPE SPRINKLING SYSTEM | <ul style="list-style-type: none"> EXISTING ASPHALT ROADWAY. MAINTAIN AND PROTECT. KEEP CLEAR OF MUD AND DEBRIS FROM WORK UNDER THIS CONTRACT. EXISTING CONCRETE CATCH BASIN MAINTAIN AND PROTECT REMOVE AND PROPERLY DISPOSE OF ANY ASPHALT CONCRETE PAVING REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION. SAW CUT ALL EDGES. REPLACE ASPHALT DISTURBED BY NEW WATER CONNECTION NEW 4" THICK X 2'-4" WIDE CONCRETE SLAB. SEE DETAILS 11/ASS01. MINUS WASHED COBBLE STONE OVER 6 OZ/SQ YD LANDSCAPE FABRIC. COBBLE DEPTH MINIMUM 4" THICK | <ul style="list-style-type: none"> GAS METER SILT FENCE LOCATION - SEE GENERAL NOTES REMOVE EXISTING CHAIN LINK FENCE AND PROVIDE AND INSTALL NEW 4" HIGH CHAIN LINK FENCE. COORDINATE FENCE LOCATIONS W/ARCHITECT PRIOR TO INSTALLATION. EXISTING CONCRETE CURB AND GUTTER MAINTAIN AND PROTECT. REMOVE EXISTING CURB AND GUTTER TO NEAREST JOINT AND INSTALL NEW CURB AND GUTTER TO ALIGN WITH AND MATCH EXISTING CURB & GUTTER NEW 8" THICK CONCRETE PAVING. SEE DETAIL 10/ASS01 FOR PAVEMENT SECTION. REINFORCE W/ #5 BARS @ 16" O.C. BOTH WAYS. SEE OVER EXCAVATION NOTE THIS PAGE AND SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA. |
|--|--|---|---|



OVER EXCAVATION AND IMPORTED ENGINEERED FILL SCHEMATIC
 SCALE: NONE

OVER EXCAVATION AND IMPORTED ENGINEERED FILL
 NOTE: THE AREAS UNDER THE BUILDING, THE SIDEWALKS AND THE CONCRETE MANEUVERING PAD AT THE DOCK AREA ARE TO BE EXCAVATED TO A MINIMUM DEPTH OF 5 FEET BELOW EXISTING GRADE. THE EXISTING NON-COMPACTED FILLS ARE TO BE REMOVED FROM THE SITE. REPLACE THE EXISTING NON-COMPACTED FILLS WITH COMPACTED IMPORTED ENGINEERED FILL UNDER ALL BUILDING STRUCTURES, SIDEWALKS AND THE CONCRETE MANEUVERING AREA AT THE LOADING DOCK. THE OVER EXCAVATION AREA IS TO EXTEND A MINIMUM OF 5 FEET OUTSIDE BUILDING STRUCTURES, SIDEWALKS AND CONCRETE MANEUVERING AREA.
 SEE SUBSURFACE INVESTIGATION FOR COMPACTION, OVER EXCAVATION AND ENGINEERED FILL BEFORE PROCEEDING WITH CONSTRUCTION. ALL REQUIREMENTS OF THE SUBSURFACE INVESTIGATION, ADDITIONAL REQUIREMENTS SUCH AS THE DEPTH OF THE CONCRETE SLAB, REINFORCING, OVER EXCAVATION AT THE SIDEWALKS AND MANEUVERING SLAB AND REMOVAL FROM THE SITE OF THE NON-COMPACTED IMPORTED FILLS ARE REQUIRED BY THESE DOCUMENTS.



NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH
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 975 East 100 South, Salt Lake City, Utah 84102 TEL: (801) 332-4441 FAX: (801) 532-4220



REVISION # DATE:
 1 9-21-10

DFCM PROJECT NO.:
 07270030
 CONST DOC
 FILE NAME: ABCBT-AS101
 PLOT SCALE: 1:192
 DRAWN BY: STAFF
 CHECKED BY: FNM
 DATE: SEPT 2010

AS
 101

SITE PLAN

SITE INFORMATION

PARKING STALLS 47 STALLS
 ACCESSIBLE STALLS 2 STALLS
 PARKING TOTALS 49 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
 SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
 SEE SHEET AS103 FOR SITE UTILITY INFORMATION
 SEE SHEET AS001 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- CATCH BASIN
- ⊕ STORM DRAIN MAN HOLE
- ⊕ POWER POLE
- ⊕ WATER VALVE
- ⊕ ELECTRIC BOX
- ⊕ FIRE HYDRANT
- ⊕ SANITARY SEWER MAN HOLE
- ⊕ LIGHT POST
- ⊕ STREET LIGHT BOX
- ⊕ GAS METER
- ⊕ TELEPHONE BOX
- PL PROPERTY LINE
- L LANDSCAPE AREA
- SW SIDEWALK
- OVERHEAD TRANSMISSION LINE
- UNDERGROUND POWER
- SS SANITARY SEWER
- W WATER LINE
- T TELEPHONE LINE
- G GAS LINE
- C CABLE T.V.
- PARKING STALLS
- PROPERTY LINE
- CLL CONTRACT LIMIT LINE
- ⊕ THRUST BLOCK & THRUST RESTRAINT ELBOW
- ⊕ WATER LINES TYPICAL
- FENCE
- 44.34' EXISTING GRADE CONTOUR
- NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- NEW SECURITY FENCE
- SIGN, SEE 2/AS001 FOR SIGN TYPE AND 4/AS001 FOR SUPPORT DESCRIPTION
- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- TWO (2) 4" DIAMETER PVC PIPE SLEEVES
- T.O.G TOP OF GRADE
- I.E. INVERT ELEVATION
- T.O.SW TOP OF SIDEWALK
- T.O.PV TOP OF PAVEMENT
- T.O.C TOP OF CONCRETE
- ASPHALT ROADWAY AREAS, SHOWN HATCHED
 3.5" THICK ASPHALT PAVING OVER 10" AGGREGATE BASE
 REFER TO 10/AS001 AND SOILS REPORT FOR INFORMATION REGARDING ASPHALT PAVING PROFILE

STORM SEWER NOTES

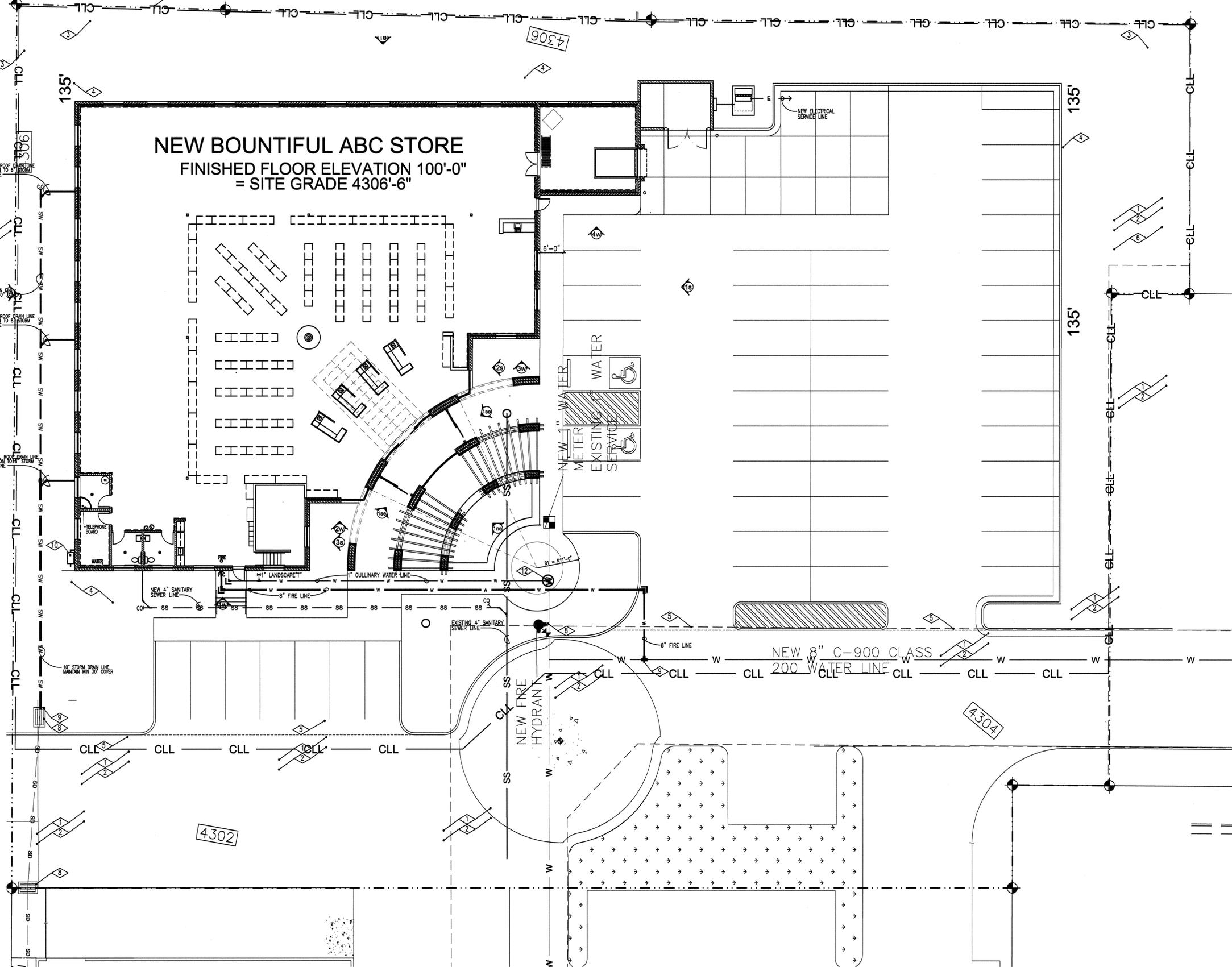
- ALL OFF SITE SANITARY STORM CONSTRUCTION SHALL COMPLY WITH LOCAL WATER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY STORM SEWER LINES.

CULINARY WATER AND FIRE LINE SERVICE NOTES

- ALL WATER SERVICE LINES AND CONNECTION CONSTRUCTION SHALL COMPLY WITH LOCAL WATER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.
- INSTALL 1" CP FOR AUTOMATIC LANDSCAPE SPRINKLER SYSTEM CONNECTION. COORDINATE LOCATION W/ LANDSCAPE SUBCONTRACTOR. PROVIDE AND INSTALL BACKFLOW PREVENTER AND VALVES AS REQUIRED BY UTILITY PROVIDER

SANITARY SEWER NOTES

- ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH LOCAL SEWER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES. MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.
- CAP AND ABANDON IN PLACE OR REMOVE EXISTING SEWER LINE EXTENSION BEYOND NEW CONNECTION



BOUNTIFUL ABC SITE UTILITY PLAN
 SCALE: 1" = 10'

GENERAL NOTES

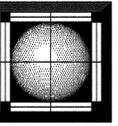
- REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
- CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THE CONTRACT DOCUMENTS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
- CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
- ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
- PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
- SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
- PROVIDE AND INSTALL SILT FENCE AT INSIDE FACE OF EAST/FENCE LINE AND AT THE NORTH, WEST AND SOUTH CONTRACT LIMIT LINES. SILT FENCE IS TO EXTEND MINIMUM 6' BELOW GRADE AND MINIMUM 18" ABOVE GRADE. THE CONTRACTOR IS TO PROVIDE A POLLUTION PREVENTION PLAN FOR OFF SITE WORK AND FOR WORK ON SITE TO BE SUBMITTED TO THE LOCAL GOVERNING JURISDICTION.
- DO NOT SCALE THE DRAWINGS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. USE WRITTEN DIMENSIONS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. IF A DIMENSION IS NOT PROVIDED, REQUEST IT FROM THE ARCHITECT.

UTILITY FEES

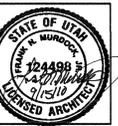
- THE OWNER SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION AND PERMIT FEES. CHARGES FOR IMPACT FEES BY UTILITIES OR MUNICIPALITIES ARE NOT TO BE CHARGED TO OR PAID BY THE CONTRACTOR OR THE STATE OF UTAH FOR STATE FACILITIES. PERMITTING BY LOCAL JURISDICTIONS IS ONLY REQUIRED FOR WORK PERFORMED OUTSIDE THE BOUNDARIES OF THE STATE PROPERTY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION AND PERMIT APPLICATIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER COPIES OF THE INVOICES FOR UTILITY CONNECTIONS AND OFF SITE PERMITS.

UTILITY PLAN REFERENCE NOTES

- MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING SITE LIGHTING, FIRE HYDRANTS, LANDSCAPING, FENCES, STORM DRAIN CATCH BASINS, CURBS, GUTTERS, ASPHALT, LANDSCAPE SPRINKLER SYSTEMS, SIGNS AND SIDEWALKS. IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO EXISTING SITE ELEMENTS CAUSED BY WORK ASSOCIATED WITH THIS CONTRACT.
- MAINTAIN AND PROTECT EXISTING SITE ELEMENTS ON ADJACENT PROPERTIES. IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTY CAUSED BY WORK ASSOCIATED WITH THIS CONTRACT.
- MAINTAIN AND PROTECT EXISTING FENCE AT THE NORTH AND EAST PROPERTY LINES UNTIL NEW CHAIN LINK FENCES ARE INSTALLED.
- PROPERTY LINE
- MAINTAIN AND PROTECT EXISTING CURB, GUTTER, ASPHALT, LANDSCAPING OR SIDEWALK IN THIS AREA. ADJUST THE GRADING FOR THE NEW CONCRETE, ASPHALT OR LANDSCAPING TO MATCH GRADES OF THE EXISTING CURB, GUTTER, ASPHALT, LANDSCAPING OR SIDEWALK.
- MAINTAIN AND PROTECT EXISTING LANDSCAPING IN THIS AREA.
- MAINTAIN AND PROTECT EXISTING EXISTING FIRE HYDRANT
- EXISTING CATCH BASIN MAINTAIN AND PROTECT
- CONNECT NEW 10" STORM DRAIN LINE TO EXISTING CONCRETE CATCH BASIN BOX SET INLET ON NEW PIPE 1" ABOVE OUT LET OF EXISTING PIPE
- GAS METER
- 8" X 8" X 8" T" CONNECT PER BOUNTIFUL CITY WATER UTILITY REQUIREMENTS. COORDINATE SHUT DOWN OF WATER LINE WITH UTILITY COMPANY AND ADJACENT PROPERTIES
- CONNECT NEW 1" CULINARY WATER LINE TO EXISTING 1" COPPER LINE STUBBED INTO SITE. INSTALL NEW WATER METER PER BOUNTIFUL CITY WATER UTILITY REQUIREMENTS. COORDINATE SHUT DOWN OF WATER LINE WITH UTILITY COMPANY AND ADJACENT PROPERTIES



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 BOUNTIFUL, UTAH

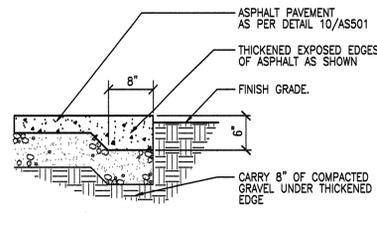


REVISION # DATE:
 DFCM PROJECT NO.: 07270030
 CONST DOC
 FILE NAME: ABCBT-AS103
 PLOT SCALE: 1:192
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 CHECKED BY: FNM
 DATE: SEPT 2010

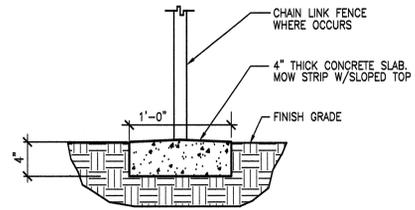
AS 103

SITE UTILITY PLAN

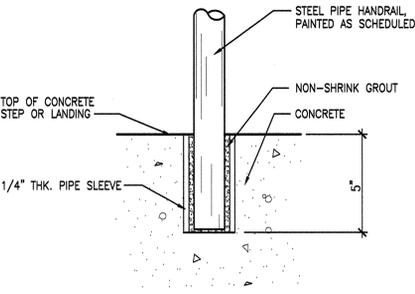
FRANK N. MURDOCK JR. Architect & Associates
 975 East 100 South, Salt Lake City, Utah 84102
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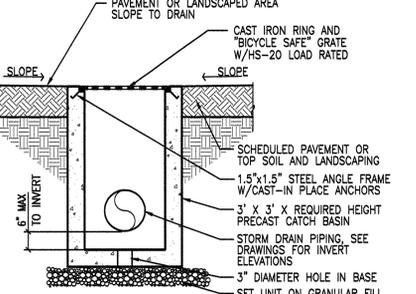
25 ASPHALT EDGE DETAIL
AS501 SCALE: NOT TO SCALE



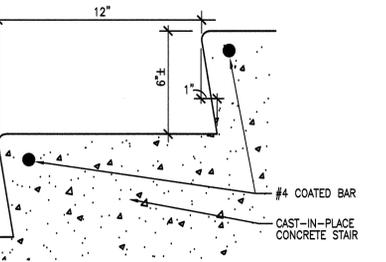
24 CONCRETE MOW STRIP DETAIL
AS501 SCALE: NOT TO SCALE



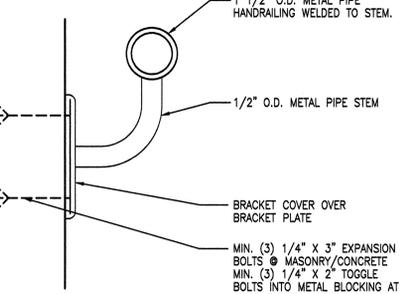
23 PIPE RAIL ANCHORING DETAIL
AS501 SCALE: NOT TO SCALE



22 CATCH BASIN
AS501 SCALE: NOT TO SCALE



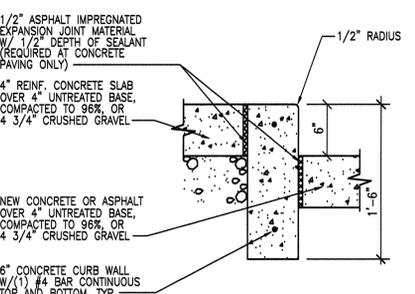
21 STAIR NOSING SECTION
AS501 SCALE: NOT TO SCALE



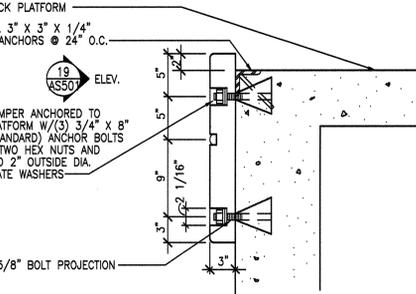
20 HANDRAIL MOUNTING DETAIL
AS501 SCALE: NOT TO SCALE

1896 PROVIDE AND INSTALL QUANTITY OF EACH NUMBER TO MATCH THE STREET ADDRESS OF THIS PROJECT. FONT TO BE TIMES NEW ROMAN, HELVETICA OR ARIAL. NUMBERS TO BE POLISHED BRASS, DARK BRONZE OR BRUSHED ALUMINUM. FONT AND LOCATION OF NUMBERS TO BE SELECTED BY ARCHITECT. NOTE: THESE ARE NOT THE ACTUAL NUMBERS TO BE USED. THE NUMBERS WILL MATCH THE STREET ADDRESS OF THE BUILDING.

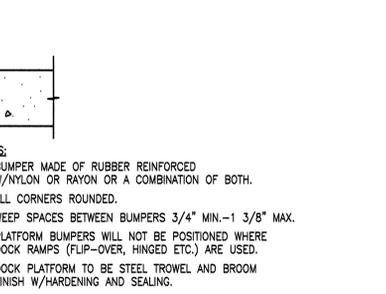
16 EXTERIOR BUILDING NUMBERS
AS501 SCALE: NOT TO SCALE



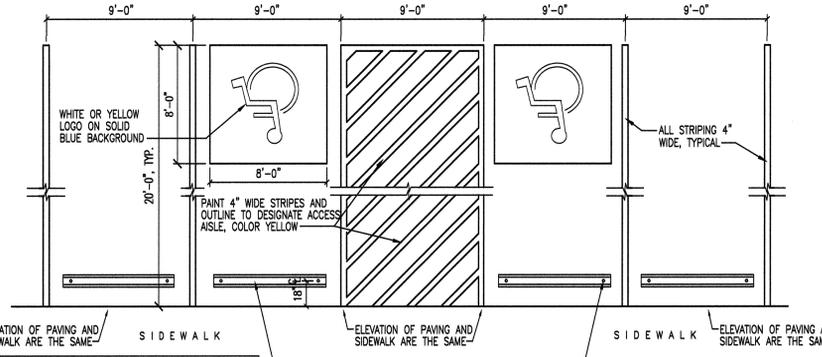
17 CONCRETE CURB DETAIL
AS501 SCALE: NOT TO SCALE



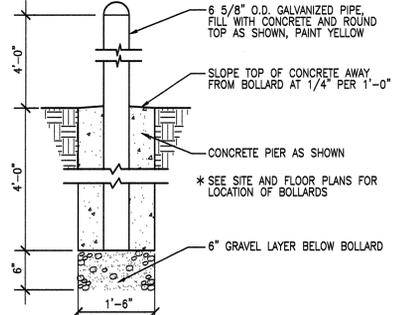
18 DOCK BUMPER SECTION
AS501 SCALE: NOT TO SCALE



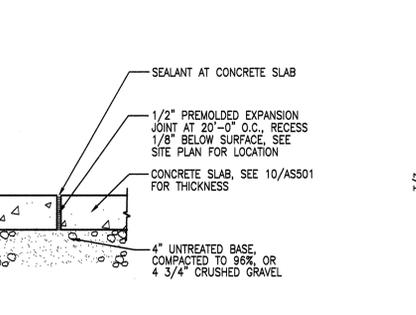
19 DOCK BUMPER ELEVATION
AS501 SCALE: NOT TO SCALE



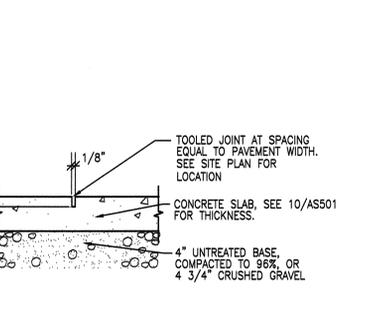
15 HANDICAP PARKING STALL AND ACCESS AISLE DETAIL
AS501 SCALE: NOT TO SCALE



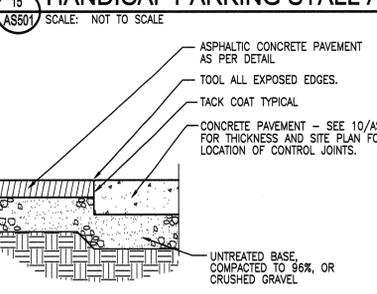
14 BOLLARD DETAIL
AS501 SCALE: NOT TO SCALE



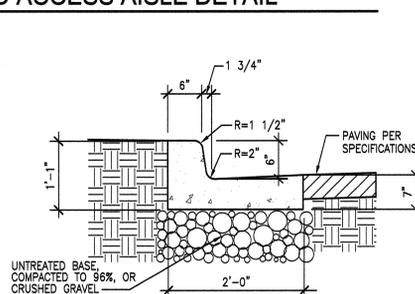
13 EXPANSION JOINT DETAIL (EJ)
AS501 SCALE: NOT TO SCALE



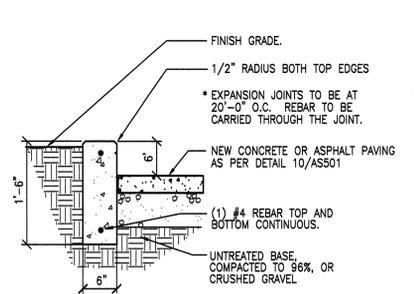
12 CONTROL JOINT DETAIL (CJ)
AS501 SCALE: NOT TO SCALE



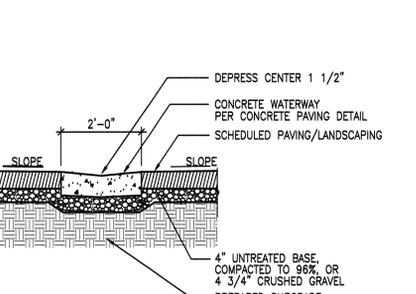
5 CONCRETE/ASPHALT EDGE
AS501 SCALE: NOT TO SCALE



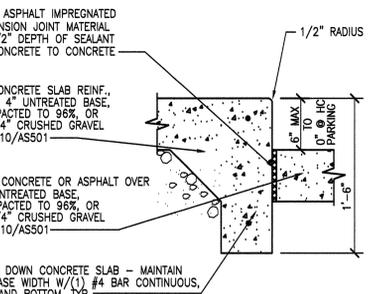
6 CURB AND GUTTER DETAIL
AS501 SCALE: NOT TO SCALE



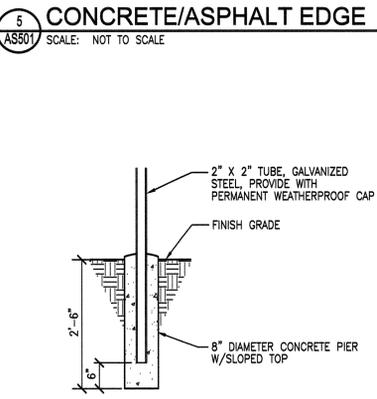
7 CONCRETE CURB DETAIL
AS501 SCALE: NOT TO SCALE



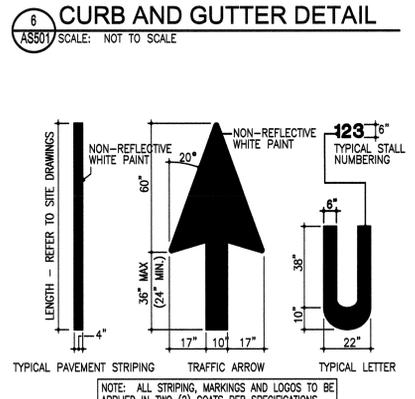
8 CONCRETE WATERWAY DETAIL
AS501 SCALE: NOT TO SCALE



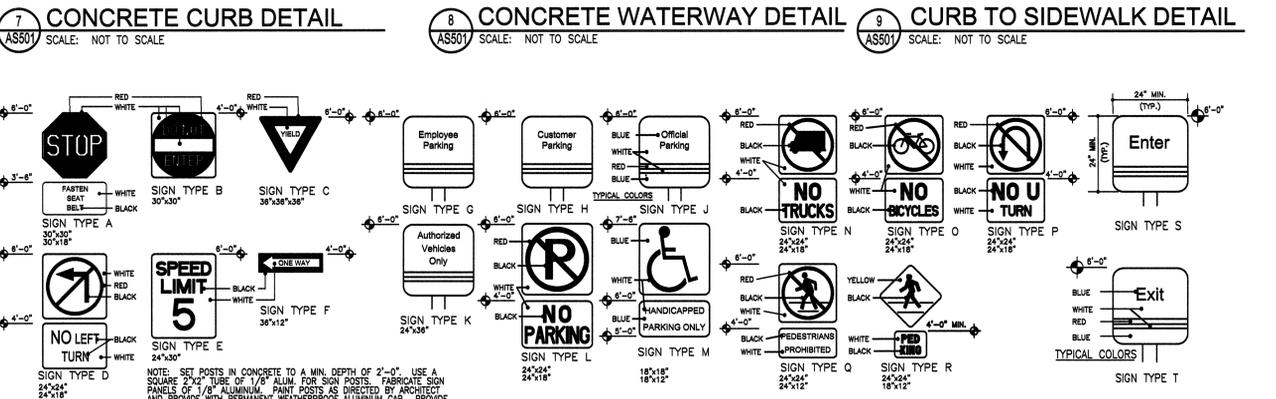
9 CURB TO SIDEWALK DETAIL
AS501 SCALE: NOT TO SCALE



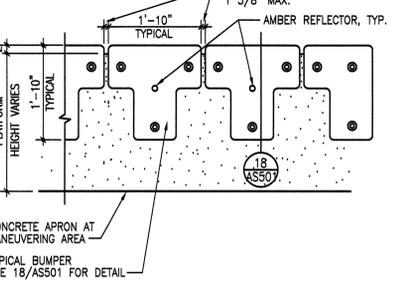
4 EXTERIOR SIGNAGE SUPPORT
AS501 SCALE: NOT TO SCALE



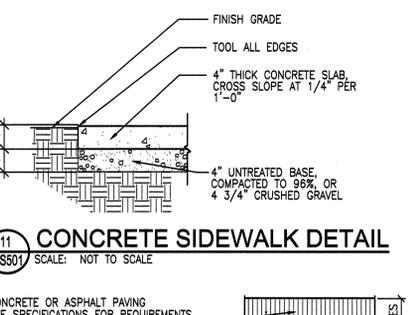
3 PAVEMENT MARKINGS
AS501 SCALE: NOT TO SCALE



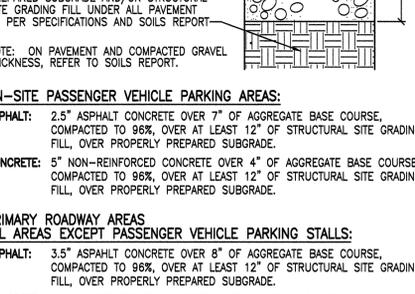
2 EXTERIOR TRAFFIC SIGNAGE
AS501 SCALE: NOT TO SCALE



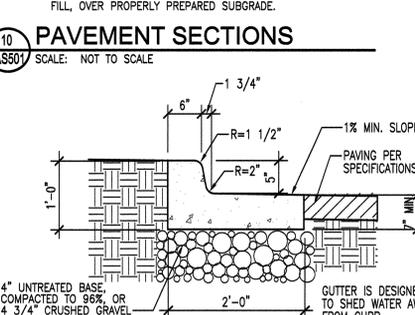
11 CONCRETE SIDEWALK DETAIL
AS501 SCALE: NOT TO SCALE



ON-SITE PASSENGER VEHICLE PARKING AREAS:



PRIMARY ROADWAY AREAS:



10 PAVEMENT SECTIONS
AS501 SCALE: NOT TO SCALE

NEW BOUNTIFUL LIQUOR STORE
DEPT OF ALCOHOLIC BEVERAGE CONTROL
550 NORTH 450 WEST, BOUNTIFUL, UTAH

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STATE OF UTAH
FRANK N. MURDOCK, JR.
124496
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 07270030
CONST DOC
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DRAWN BY: STAFF
CHECKED BY: FMJ
DATE: SEPT 2010

AS 501

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
 SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
 SEE SHEET AS103 FOR SITE UTILITY INFORMATION
 SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

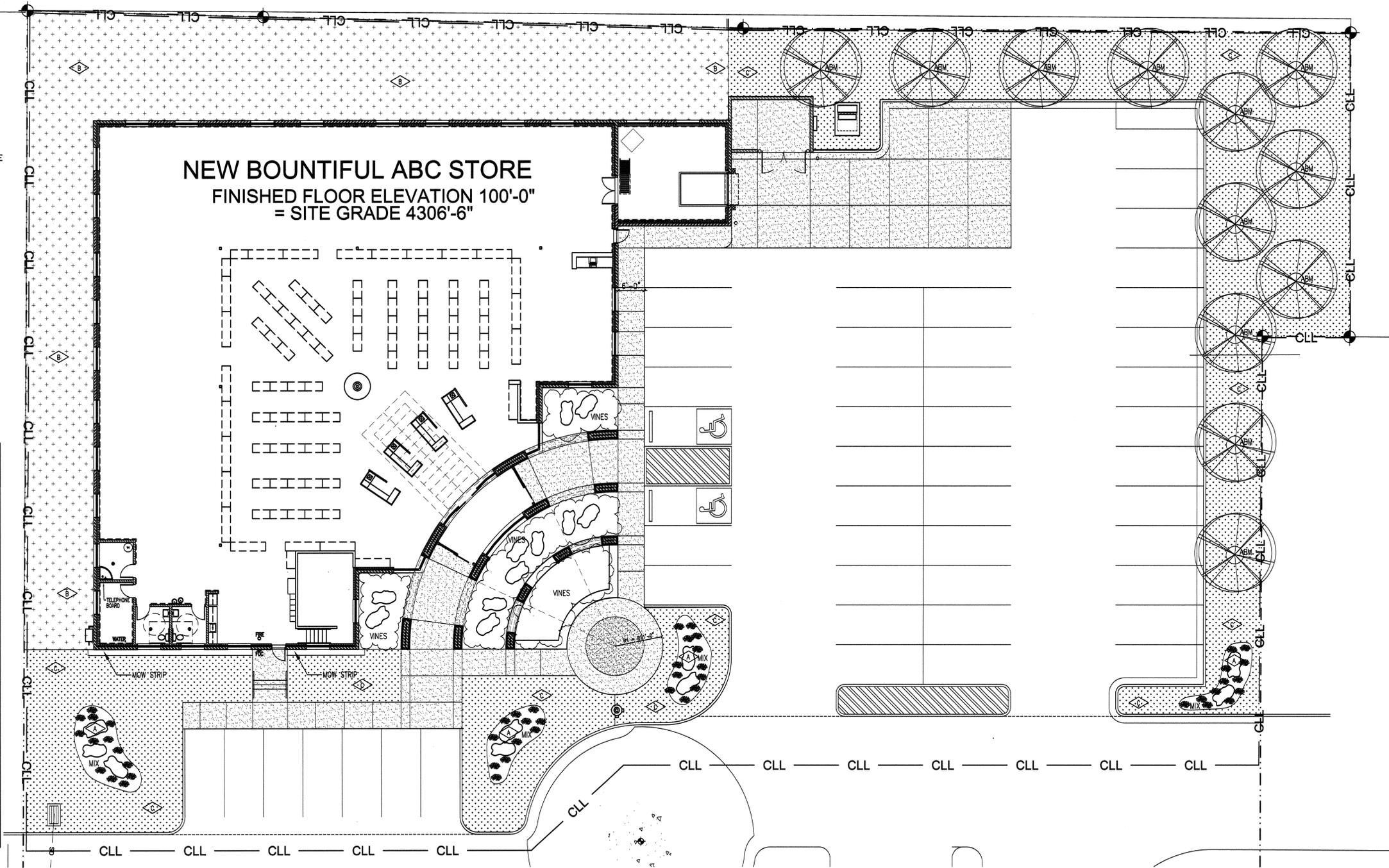
- SS — SANITARY SEWER
- W — WATER LINE
- T — TELEPHONE LINE
- G — GAS LINE
- C — CABLE T.V.
- P — PARKING STALLS
- F — FENCE
- 4434
4434 — EXISTING GRADE CONTOUR
- 51 — NEW GRADE CONTOUR
- CLL — CONTRACT LIMIT LINE
- X — X — NEW SECURITY FENCE
- A
B — SIGN TYPES — SEE 2/AS501
- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- 2 — 4" PVC PIPE SLEEVE
- T.O.G — TOP OF GRATE
- I.E. — INVERT ELEVATION
- T.O.SW — TOP OS SIDEWALK
- T.O.PV — TOP OF PAVEMENT
- T.O.C. — TOP OF CONCRETE
- CATCH BASIN
- ⊗ STORM DRAIN MAN HOLE
- ⊕ POWER POLE
- ⊕ WATER VALVE
- ⊕ ELECTRIC BOX
- ⊕ FIRE HYDRANT
- ⊕ SANITARY SEWER MAN HOLE
- ⊕ LIGHT POST
- ⊕ STREET LIGHT BOX
- ⊕ GAS METER
- ⊕ TELEPHONE BOX
- PL — PROPERTY LINE
- L — LANDSCAPE AREA
- SW — SIDEWALK

GENERAL NOTES

- REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
- CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THE CONTRACT DOCUMENTS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
- CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
- CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT OR CONCRETE PAVEMENT OR RETAINING WALLS.
- PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
- SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
- PROVIDE AND INSTALL SILT FENCE AT THE NORTH, EAST AND SOUTH CONTRACT LIMIT LINES AND AT THE EDGE OF EXISTING ASPHALT ROADWAY AT THE WEST EDGE OF THE PROPERTY. SILT FENCE IS TO EXTEND MINIMUM 6" BELOW GRADE AND MINIMUM 18" ABOVE GRADE. CONTRACTOR IS TO PROVIDE A POLLUTION PREVENTION PLAN FOR OFF-SITE WORK AND FOR WORK ON SITE TO THE GOVERNING JURISDICTION.
- DO NOT SCALE THE DRAWINGS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. USE WRITTEN DIMENSIONS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. IF A DIMENSION IS NOT PROVIDED, REQUEST IT FROM THE ARCHITECT.

KEY NOTES

- A — LANDSCAPE AREA WITH RANDOM CLUMPS OF GROUND COVER "MIX"
- B — 4" MINUS WASHED COBBLE STONE OVER 6 OZ./SQ. YD. LANDSCAPE FABRIC. COBBLE DEPTH MINIMUM 4" THICK
- C — SOD



BOUNTIFUL ABC LANDSCAPE SITE PLAN
 SCALE: 1" = 10' 0" 5' 10' 15' 20' 30'

LANDSCAPING PLAN LEGEND

NOTE: MINIMUM SIZE FOR PLANTS
 GROUND COVER — FLATS TO 5 GALLON
 SHRUBS — 5 GALLON
 DECIDUOUS TREES — 2 1/2" TO 3" CALIPER AS NOTED

NOTE:
 "CALIPER" INDICATES THE DIAMETER OF THE TREE TRUNK TAKEN AT 6" ABOVE THE GROUND LEVEL.

TREES

- "AUTUMN BLAZE RED MAPLE"
Acer x freemanii 'Jeffersred' Autumn Blaze®
 2 1/2" CALIPER
 QUANTITY = 12

GRASS

- SOD = BLUEGRASS VARIETIES

GROUND COVER

- GROUNDCOVERS**
- GREATER PERIWINKLE QUANTITY = 240
 - VINA MAJOR FLATS
 - CREeping OREGON GRAPE QUANTITY = 120
 - MAHONIA REPENS 1 GALLON
 - BROADMORE JUNIPER QUANTITY = 48
 - JUNIPERUS SABINA 'BROADMORE' 5 GALLON
 - MIX PLANT IN RANDOM PATTERN MAXIMUM 12" O.C. IN "MIX" AREAS
 - 66% GREATER PERIWINKLE QUANTITY = 240 PLANTS
 - 33% CREeping OREGON GRAPE QUANTITY = 120 PLANTS

VINES & IVY PLACE IN PLANTER AREAS AS DIRECTED BY ARCHITECT.

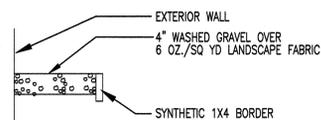
- CLIMBING VINES @ TRELLIS AREAS**
- CLEMATIS QUANTITY = 12
 - CLEMATIS X JACKMANII QUANTITY = 12
 - CLEMATIS QUANTITY = 12
 - CLEMATIS NIGRE
- CLIMBING IVY @ BUILDING WALL & PLANTING AREAS**
- BOSTON IVY FLATS QUANTITY = 288 PLANTS
 - Parthenocissus tricuspidata
 - ENGLISH IVY FLATS QUANTITY = 288 PLANTS
 - Hedera helix L.
 - VINES PLANT IN RANDOM PATTERN MAXIMUM 18" O.C. IN "VINES" AREAS
 - 50% BOSTON IVY FLATS QUANTITY = 288 PLANTS
 - 50% ENGLISH IVY FLATS QUANTITY = 288 PLANTS

BOULDERS

NOTE: PROVIDE AND INSTALL:
 12 BOULDERS WITH MINIMUM DIMENSIONS OF 48" LONG BY 30" HIGH BY 36" WIDE.
 8 BOULDERS WITH MINIMUM DIMENSIONS OF 72" LONG BY 36" HIGH BY 42" WIDE.
 PLACE IN PLANTER AREAS AS DIRECTED BY ARCHITECT.
 BOULDERS ARE TO BE GRANITE OF A TYPE NATIVE TO THE LOCAL AREA.

MOW STRIP

NOTE: PROVIDE AND INSTALL A 12" GRAVEL MOW STRIP AT ALL AREAS WHERE SOD IS ADJACENT TO THE BUILDING EXTERIOR WALL.



LANDSCAPING PLAN GENERAL NOTES

- ALL AREAS NOTED AS "SOD" (GRASS) AND ALL LANDSCAPED AREAS, SHALL BE PROVIDED WITH A LANDSCAPE IRRIGATION SYSTEM. SLEEVES SHALL BE PROVIDED UNDER PAVED AREAS TO FACILITATE THE IRRIGATION SYSTEM. SEE SPECIFICATIONS FOR REQUIREMENTS.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SLEEVES UNDER PAVED AREAS. WORK SHALL BE COORDINATED WITH PAVING CONTRACTOR.
- INSTALL A MINIMUM OF 4" OF IMPORTED TOP SOIL AT ALL SOD AND LANDSCAPED AREAS.
- MINIMUM EXCAVATION FOR TREES SHALL BE A DIAMETER OF 2'-0" GREATER THAN THE ROOT BALL, AND 6" DEEPER THAN THE ROOT BALL. BACKFILL HOLE WITH TOPSOIL. COVER AREA INSIDE EDGING WITH BARK CHIPS (3" DEEP).
- COMPLETELY COVER AREA AROUND SHRUB, TREE, "MIX" AND GROUNDCOVER PLANTINGS WITH A 3" THICK LAYER OF BARK CHIPS OVER 6 OZ./SQ YD LANDSCAPE FABRIC.
- NOT USED.
- STAKE AND GUY SUPPORT ALL TREES. PROVIDE TREE TRUNK PROTECTION PLASTIC SLEEVES AT ALL TREES NOT PLANTED WITH SHRUBS AROUND THEIR BASE.
- PROVIDE FLEXIBLE EDGING AND BARK CHIPS AT ALL TREES IN LAWN AREAS. PROVIDE 4" DIAMETER EDGING CIRCLE, AT TREES IN LAWN AREAS, WHERE NO EDGING IS OTHERWISE NOTED.
- CONSTRUCT A 4" HIGH EARTHEN BERM AROUND ALL TREES AND SHRUBS. BERM TO BE SAME DIAMETER AS EXCAVATION FOR ROOT BALL PLANTING PIT.
- MINIMUM EXCAVATION FOR SHRUBS SHALL BE A DIAMETER OF 12" GREATER THAN THE DIAMETER OF THE CONTAINER. EXCAVATION SHALL BE 18" DEEP MINIMUM. BACKFILL HOLE WITH TOP SOIL.
- PROVIDE AND INSTALL COMPLETE AUTOMATIC LANDSCAPE SPRINKLING SYSTEM TO ALL LAWN AND LANDSCAPED AREAS. SEE SPECIFICATIONS FOR DETAILED SYSTEM REQUIREMENTS.
- LANDSCAPING SHALL NOT BE CONSIDERED TO BE COMPLETE UNTIL AFTER 90 DAYS OF HEALTHY GROWTH. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL UNHEALTHY OR DEAD LANDSCAPING. CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ALL REPLACED LANDSCAPING WITH THE 90 DAY HEALTHY GROWTH REQUIREMENT BEING APPLICABLE TO ALL REPLACED LANDSCAPING.

NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH



REVISION # DATE:
 DFCM PROJECT NO.: 07270030
 CONST DOC
 FILE NAME: ABCST-AS101
 PLOT SCALE: 1:192
 DRAWN BY: STAFF
 CHECKED BY: FNM
 DATE: SEPT 2010

LS 101

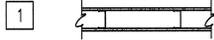
LANDSCAPE SITE PLAN

FRANK N. MURDOCK, JR. ■ Architect & Associates
 975 East 100 South, Salt Lake City, Utah 84107 TEL: (801) 532-4441 FAX: (801) 532-4220

NOTES

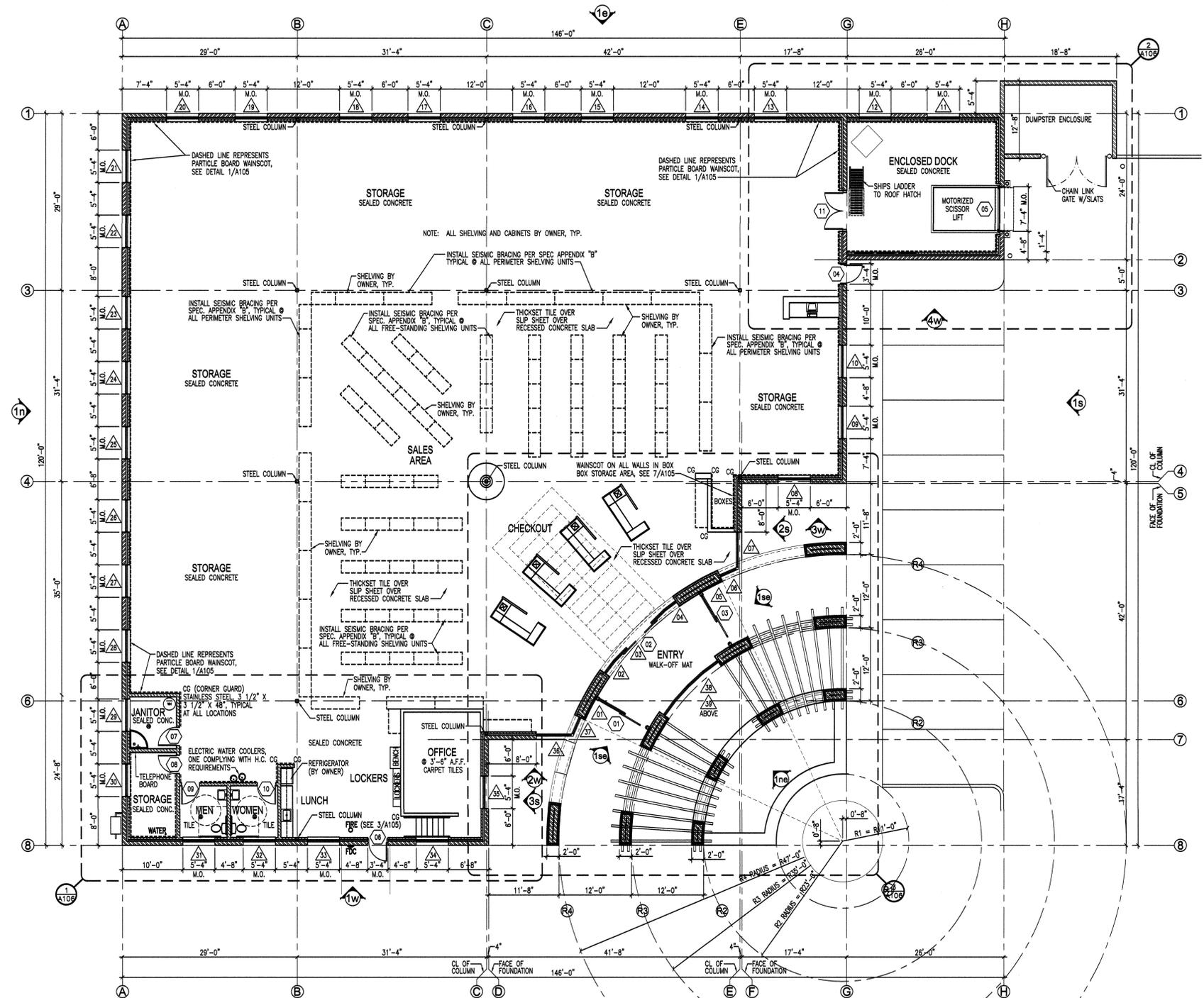
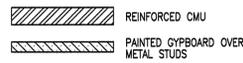
1. PROVIDE SIGNAGE ABOVE ENTRY DOORS STATING "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS".
2. PROVIDE SIGNAGE DESIGNATING "PUBLIC RESTROOMS" AT LOCATION TO BE DETERMINED BY ARCHITECT.
3. CONTRACTOR SHALL PROVIDE AND INSTALL FOUR (4) FIRE EXTINGUISHERS (SEE SPECIFICATIONS FOR TYPE) IN LOCATIONS TO BE DETERMINED BY ARCHITECT.
4. IF REQUIRED BY THE LOCAL FIRE MARSHALL OR FIRE DEPARTMENT, THE CONTRACTOR SHALL PROVIDE AND INSTALL A "KNOX-BOX". THE FIRE MARSHALL OR FIRE DEPARTMENT SHALL SPECIFY THE TYPE OF "KNOX-BOX" TO BE INSTALLED AND SHALL ALSO DETERMINE THE LOCATION FOR INSTALLATION OF THE BOX.

WALL TYPE



BRACE TO ROOF DECK @ 4' O.C.
 3 5/8" STUD INTERIOR PARTITION WALL:
 PAINTED 5/8" GYPBOARD BOTH SIDES OF 3 5/8" METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK OR TO 6" ABOVE CEILING WHERE CEILING OCCURS.
 PROVIDE DIAGONAL BRACING TO ROOF DECK @ 4' O.C. WHERE CEILING OCCURS. GYPBOARD @ WALL TO STOP @ GYPBOARD CEILING WHERE OCCURS. PROVIDE TILE WALLS AS SHOWN ON INTERIOR ELEVATIONS. INSTALL WATER-RESISTANT GYPBOARD @ ALL TOILET ROOMS. PROVIDE PROTECTIVE PARTICLE BOARD WAINSCOT AS SHOWN ON FLOOR PLANS, REFER TO DETAIL 1/A106.

WALL LEGEND



FLOOR PLAN - BOUNTIFUL ABC
 SCALE: 1/8" = 1'-0"

NEW BOUNTIFUL LIQUOR STORE
 DEPT. OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH

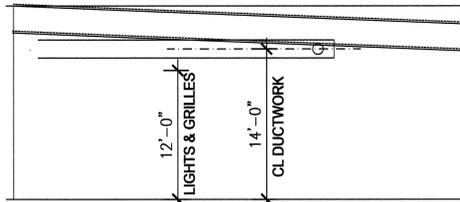


REVISION # DATE:
 DFCM PROJECT NO.: 07270030
 CONST. DOC.
 FILE NAME: ABC01-A101
 PLOT SCALE: 1/8"
 DRAWN BY: STAFF
 CHECKED BY: FM
 DATE: SEPT 2010

A 101

FLOOR PLAN

FRANK N. MURDOCK JR. Architect & Associates
 975 East 100 South, Suite 100, Salt Lake City, Utah 84102
 TEL: (801) 532-4441 FAX: (801) 532-4920

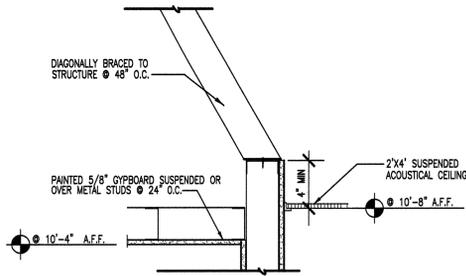


SCHEMATIC BLDG SECTION

NOTE: CENTER SECONDARY DUCTS BETWEEN LIGHTING ROWS TYPICAL. SEE MECHANICAL DRAWINGS FOR DUCT SIZES AND LOCATIONS

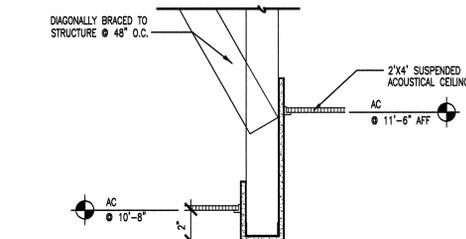
5 TYPICAL PENDANT LIGHTING AND EXPOSED DUCTWORK ELEVATIONS

A102 SCALE: NOT TO SCALE



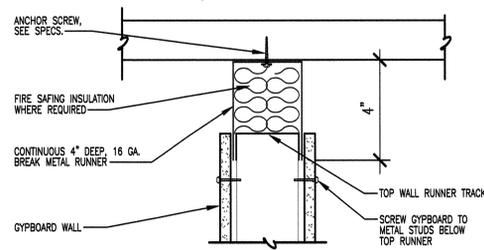
4 INTERIOR WALL BRACING

A102 SCALE: NOT TO SCALE



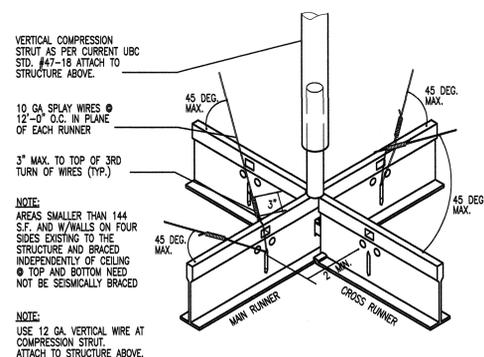
3 CEILING DROP DETAIL

A102 SCALE: NOT TO SCALE



2 SLIP JOINT DETAIL

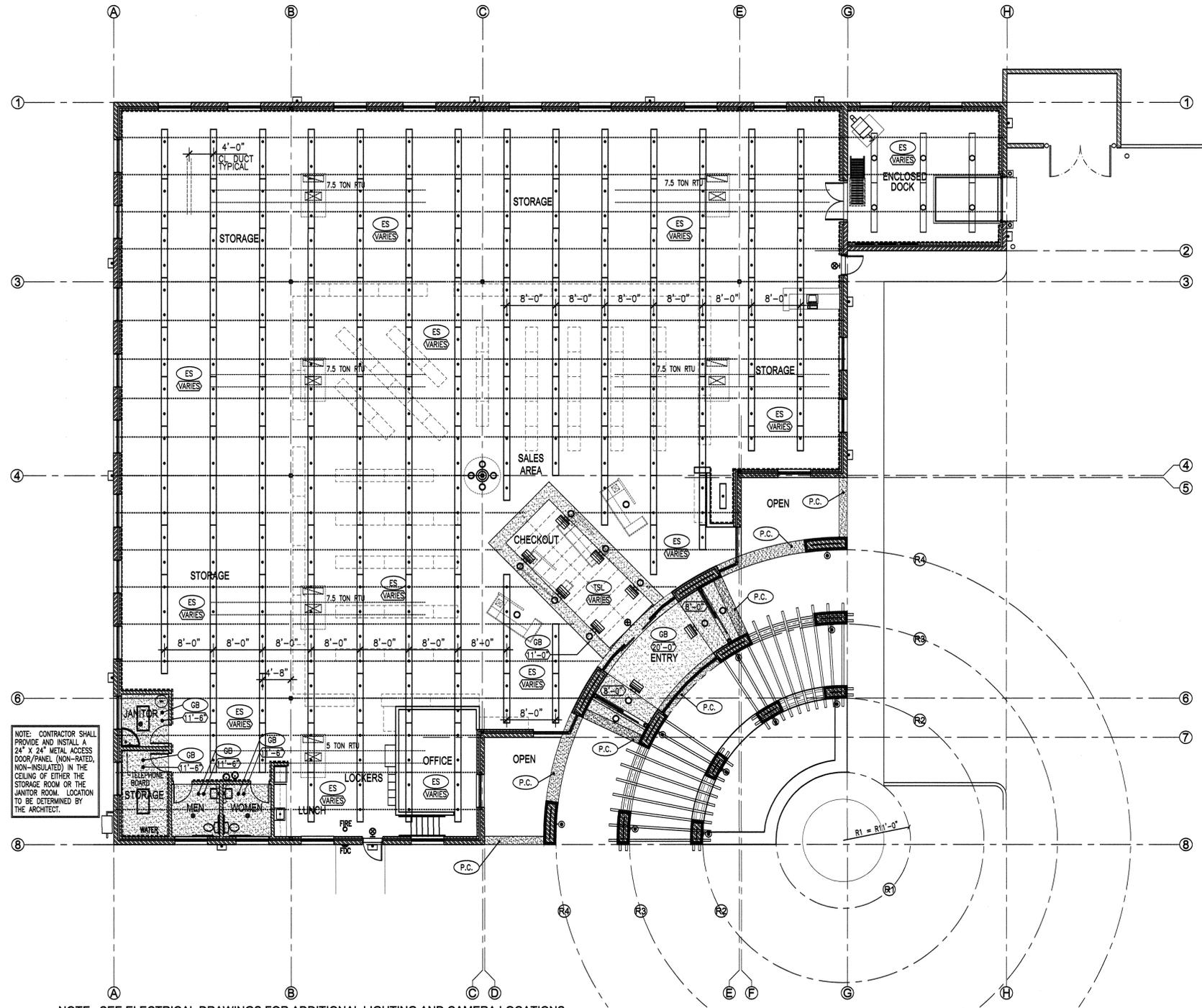
A102 SCALE: NOT TO SCALE



1 SEISMIC BRACING DETAIL

A102 SCALE: NOT TO SCALE

	4' WALL MOUNTED LIGHTING FIXTURE		8' SUSPENDED LIGHTING FIXTURE		2'X4' SUSPENDED ACOUSTICAL CEILING, PROVIDE SEISMIC BRACING, SEE 1/A102		E.S. PAINTED EXPOSED STRUCTURE HEIGHT MAY VARY
	2' SURFACE MOUNTED LIGHTING FIXTURE		UNIT HEATER		METAL SOFFIT PANEL		MSP METAL SOFFIT PANEL
	SECURITY LIGHT		TRACK LIGHT		RETURN REGISTER		P.C. TINTED PRECAST CONCRETE
	2' X 4' FLUORESCENT LIGHTING FIXTURE		8' SUSPENDED INDIRECT LIGHTING FIXTURE		SUPPLY DIFFUSER		GB PAINTED GYPSUM BOARD CEILING
	RECESSED LIGHTING FIXTURE		WALL MOUNTED LIGHTING FIXTURE		EXHAUST FAN		SSXGB SYNTHETIC STUCCO OVER EXTERIOR GYPSUM SOFFIT BOARD
	EXTERIOR WALL LIGHT		EXTERIOR WALL MOUNTED LIGHTING FIXTURE		GYPSUM BOARD SOFFIT		TSL TRANSLUCENT SKYLIGHT ABOVE CEILING OR SOFFIT HEIGHT (HEIGHT MEASURED FROM FINISHED FLOOR ELEV. 0'-0")



NOTE: SEE ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND CAMERA LOCATIONS

REFLECTED CEILING PLAN

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

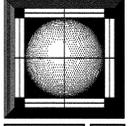
NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH
 FRANK N MURDOCK JR ■ Architect & Associates
 975 East 100 South, Suite 100, Salt Lake City, Utah 84102 TEL: (801) 332-4441 FAX: (801) 532-4220

REFLECTED CEILING PLAN

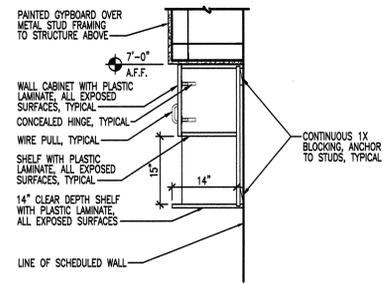
STATE OF UTAH
 FRANK N. MURDOCK JR.
 124498
 LICENSED ARCHITECT

REVISION # DATE:
 DFCM PROJECT NO.: 07270030
 CONST. DOC.
 FILE NAME: ABCBT-A102
 PLOT SCALE: 1/8"
 DRAWN BY: STAFF
 CHECKED BY: FMJ
 DATE: SEPT 2010

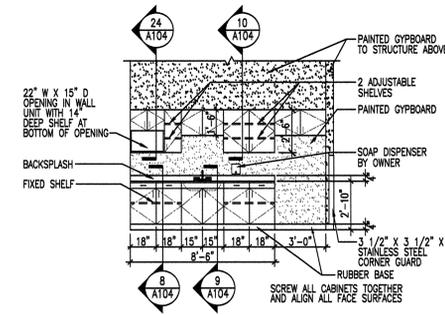
A
102



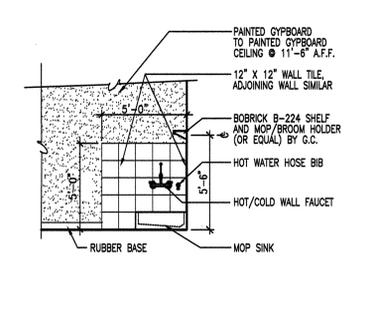
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DFCM PROJECT NO.: 07270030
CONSTR. DOC.
FILE NAME: ABOBT-A104
PLOT SCALE: 1/4" = 1'-0"
DRAWN BY: STAFF
CHECKED BY: FM
DATE: SEPT 2010



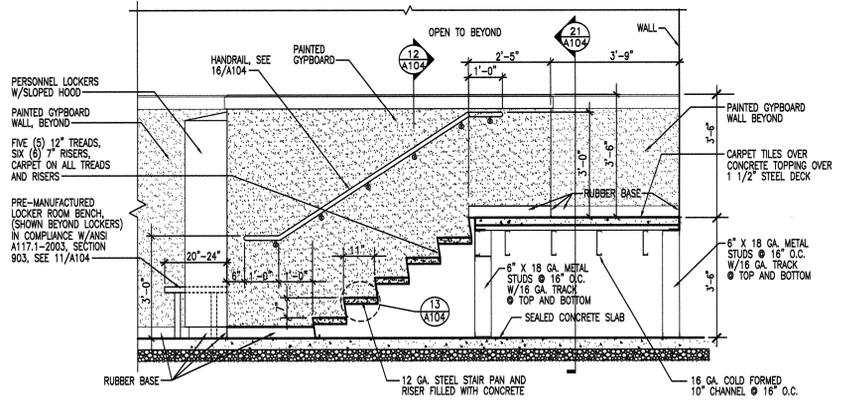
24 UPPER CABINET SECTION
A104 SCALE: NONE



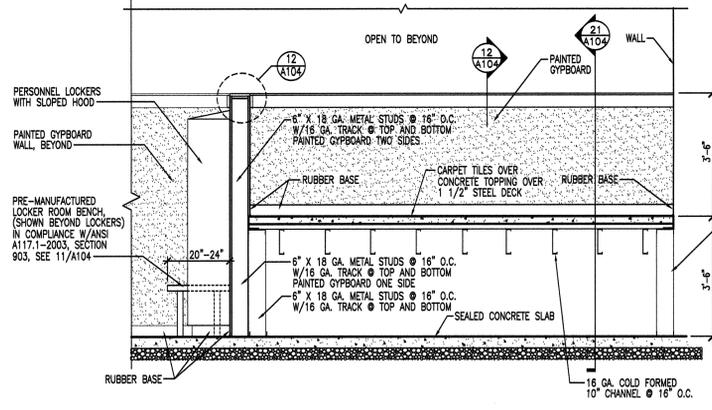
23 ELEVATION AT LUNCH COUNTER
A104 SCALE: 1/4" = 1'-0"



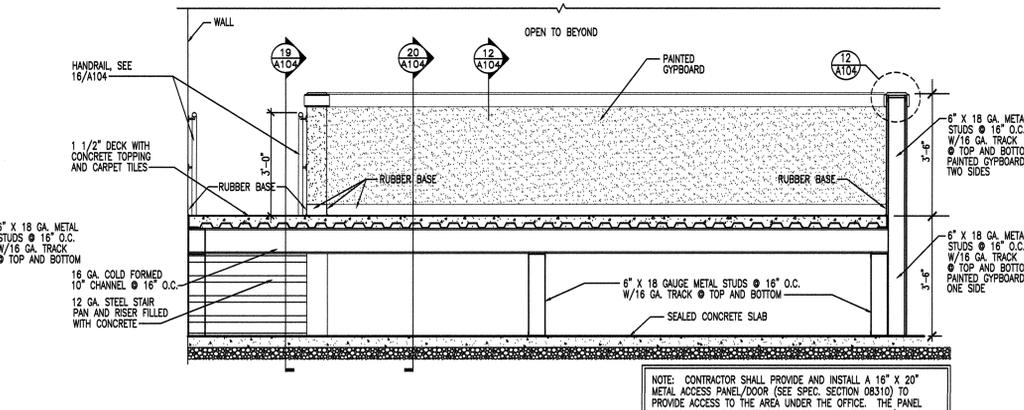
22 ELEVATION AT JANITOR'S ROOM
A104 SCALE: 1/4" = 1'-0"



19 SECTION AT OFFICE
A104 SCALE: 1/2" = 1'-0"

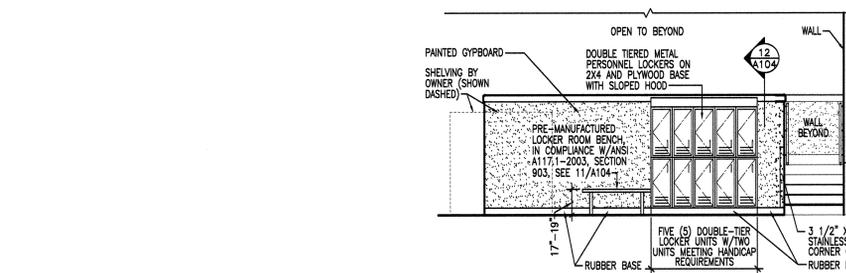


20 SECTION AT OFFICE
A104 SCALE: 1/2" = 1'-0"



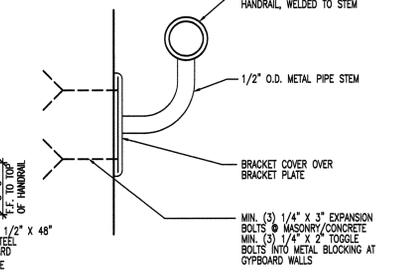
21 SECTION AT OFFICE
A104 SCALE: 1/2" = 1'-0"

NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL A 16" X 20" METAL ACCESS PANEL/DOOR (SEE SPEC. SECTION 08310) TO PROVIDE ACCESS TO THE AREA UNDER THE OFFICE. THE PANEL LOCATION SHALL BE DETERMINED BY THE ARCHITECT AND/OR OWNER.

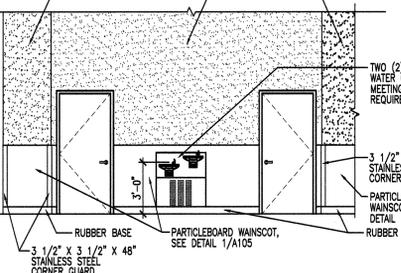


18 NOT USED
A104 SCALE: NOT TO SCALE

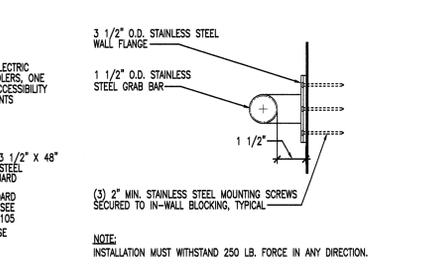
17 ELEVATION AT LOCKERS/BENCH
A104 SCALE: 1/4" = 1'-0"



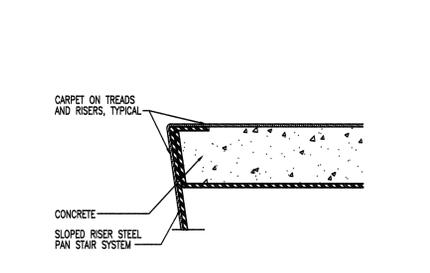
16 HANDRAIL MOUNTING DETAIL
A104 SCALE: NONE



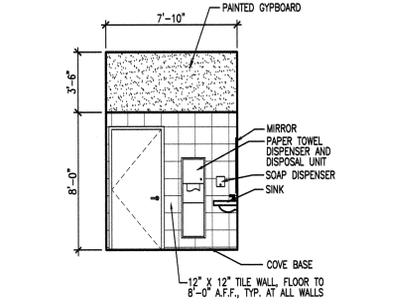
15 ELEVATION AT WATER COOLERS
A104 SCALE: 1/4" = 1'-0"



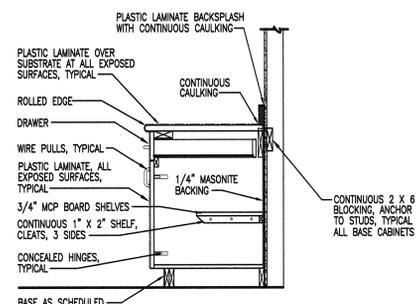
14 GRAB BAR DETAIL
A104 SCALE: NONE



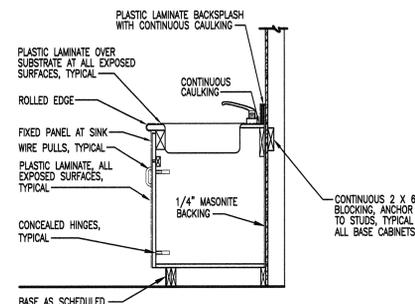
13 OFFICE STAIR NOSING DETAIL
A104 SCALE: NONE



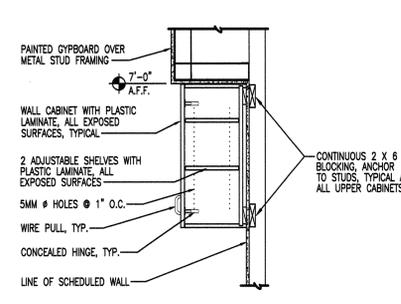
7 ELEV. AT MEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"



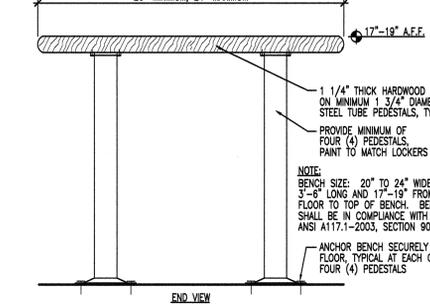
8 BASE CABINET SECTION
A104 SCALE: NONE



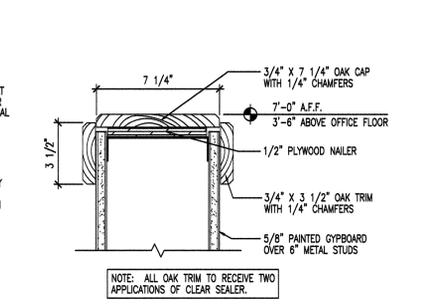
9 SINK CABINET SECTION
A104 SCALE: NONE



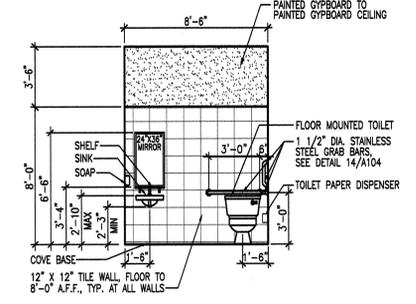
10 UPPER CABINET SECTION
A104 SCALE: NONE



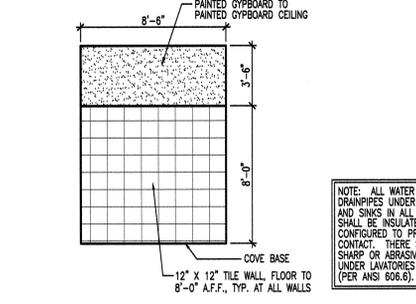
11 BENCH AT LOCKER AREA
A104 SCALE: NONE



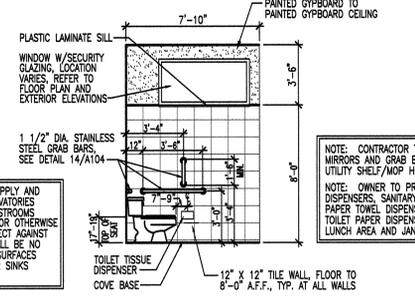
12 WALL CAP SECTION
A104 SCALE: NONE



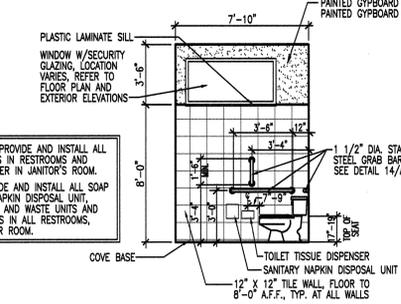
6 ELEV. AT MEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"



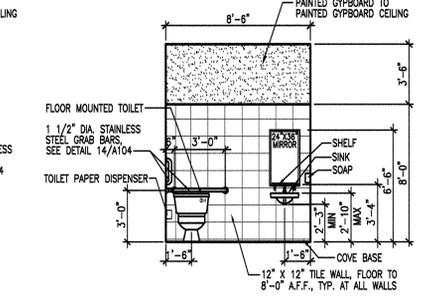
5 ELEV. AT MEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"



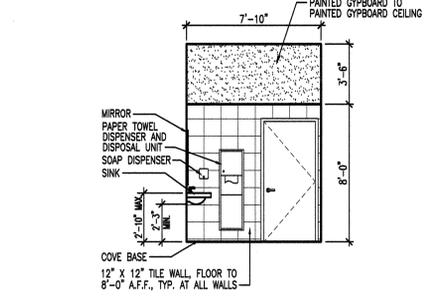
4 ELEV. AT MEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"



3 ELEV. AT WOMEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"



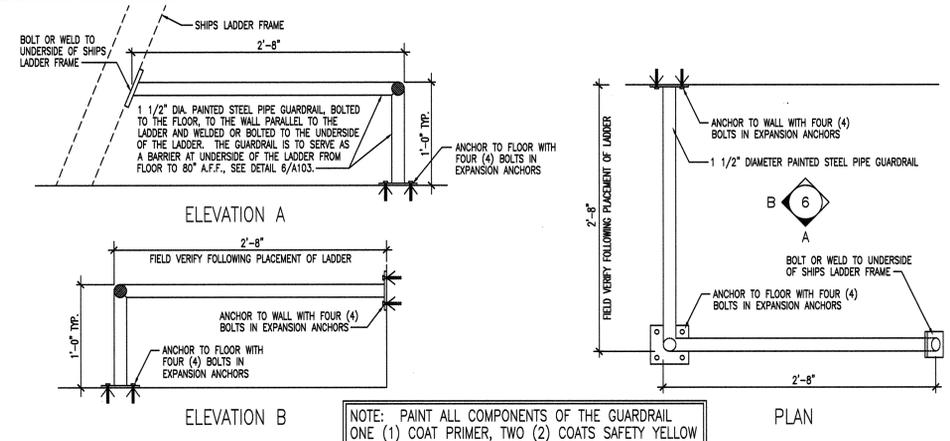
2 ELEV. AT WOMEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"



1 ELEV. AT WOMEN'S RESTROOM
A104 SCALE: 1/4" = 1'-0"

NOTE: CONTRACTOR TO PROVIDE AND INSTALL ALL MIRRORS AND GRAB BARS IN RESTROOMS AND UTILITY SHELF/MOP HOLDER IN JANITOR'S ROOM.
NOTE: OWNER TO PROVIDE AND INSTALL ALL SOAP DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, PAPER TOWEL DISPENSERS AND WASTE UNITS AND TOILET PAPER DISPENSERS IN ALL RESTROOMS, LUNCH AREA AND JANITOR ROOM.

NOTE: ALL WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS IN ALL RESTROOMS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS (PER ANSI 606.6).



6 PLAN/DETAILS FOR SHIPS LADDER GUARDRAIL
SCALE: NOT TO SCALE

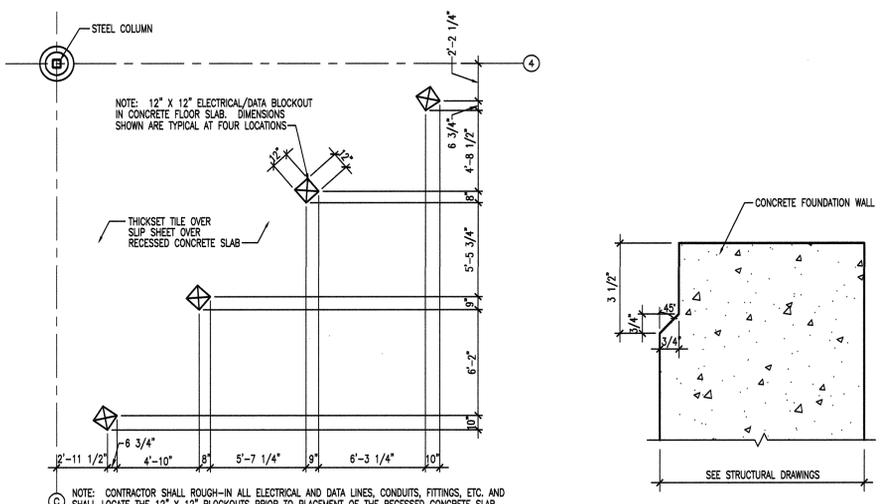
- NOTES**
1. PROVIDE SIGNAGE ABOVE ENTRY DOORS STATING "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS".
 2. PROVIDE SIGNAGE DESIGNATING "PUBLIC RESTROOMS" AT LOCATION TO BE DETERMINED BY ARCHITECT.
 3. CONTRACTOR TO PROVIDE AND INSTALL FOUR (4) FIRE EXTINGUISHERS (SEE SPECIFICATIONS FOR TYPE) IN LOCATIONS TO BE DETERMINED BY ARCHITECT.

WALL TYPE

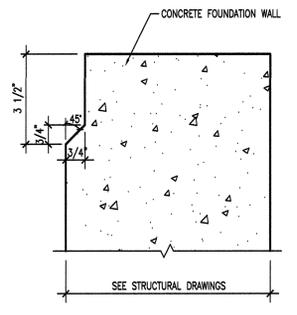
BRACE TO ROOF DECK @ 4' O.C.
 3.5/8" 20 GA. METAL STUD INTERIOR PARTITION WALL: PAINTED 5/8" GYPSBOARD BOTH SIDES OF 3 5/8" 20 GA. METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK WHERE CEILING OCCURS EXTEND WALL 6" ABOVE CEILING AND PROVIDE DIAGONAL BRACING TO ROOF DECK @ MAX 4' O.C. STOP GYPSBOARD @ GYPSBOARD CEILING WHERE OCCURS. PROVIDE TILE @ WALLS AS SHOWN ON INTERIOR ELEVATIONS. INSTALL WATER-RESISTANT GYPSBOARD @ ALL TOILET ROOM WALLS. PROVIDE PROTECTIVE PARTICLE BOARD WANSCOT AS SHOWN ON FLOOR PLANS, REFER TO DETAIL 1/A106.

WALL LEGEND

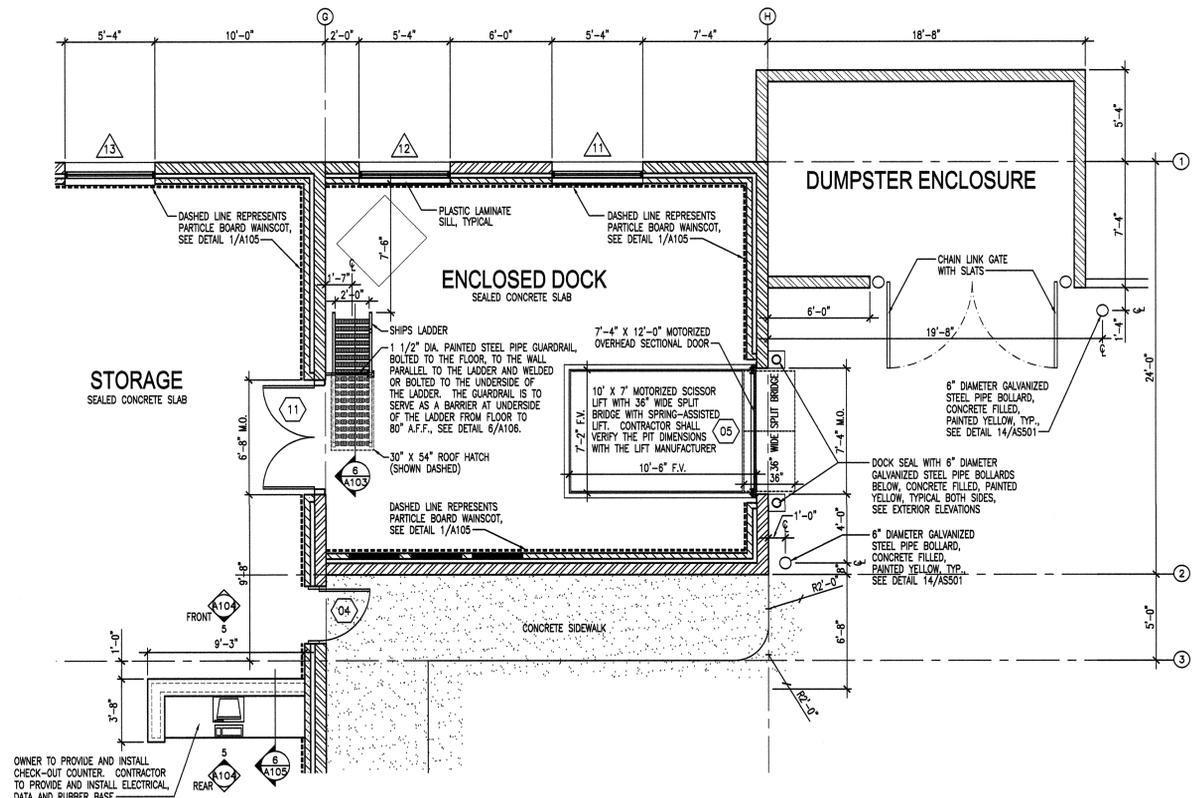
REINFORCED CMU
 PAINTED GYPSBOARD OVER METAL STUDS



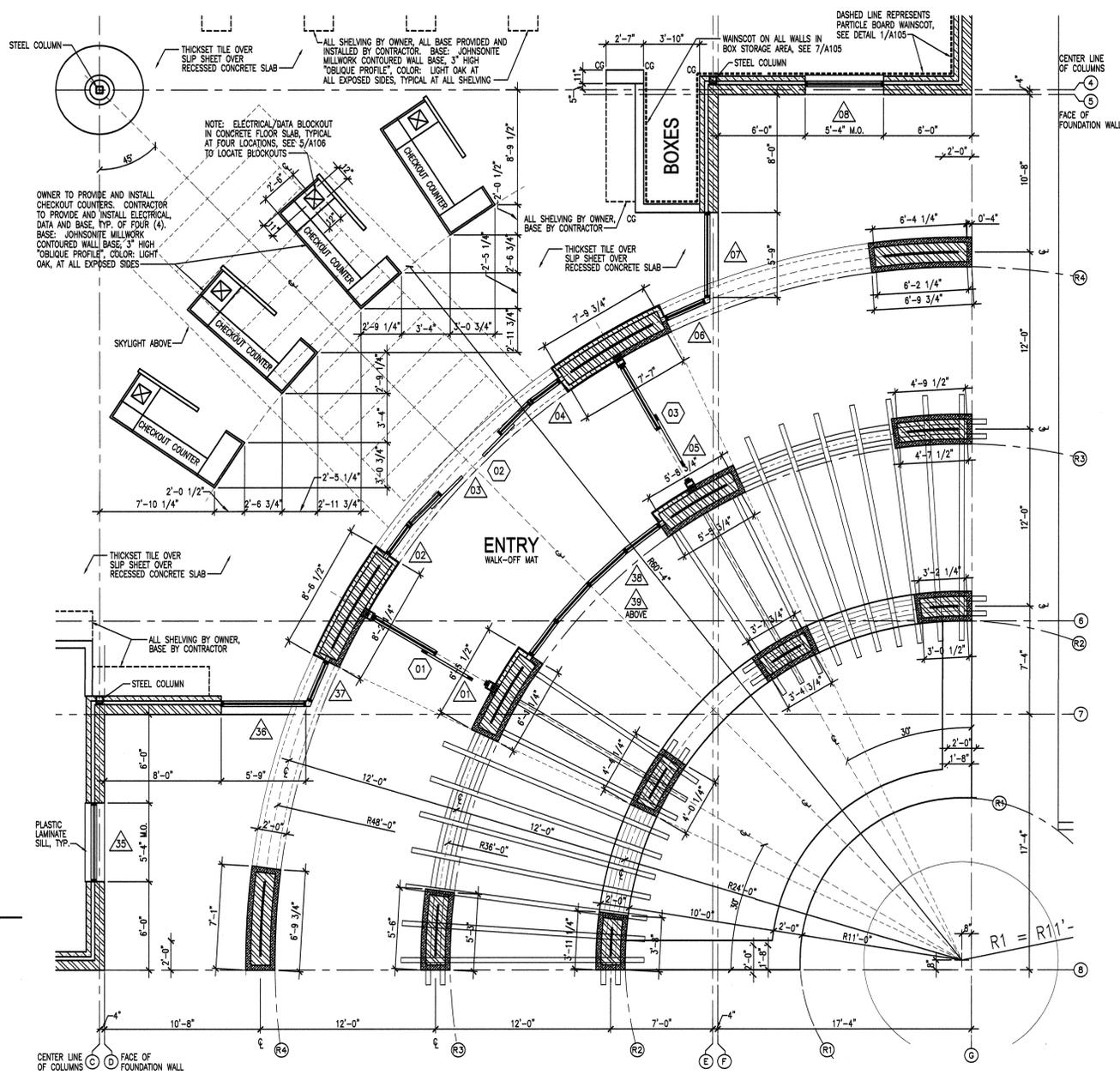
5 PLAN AT CHECKOUT BLOCKOUTS
SCALE: 1/4" = 1'-0"



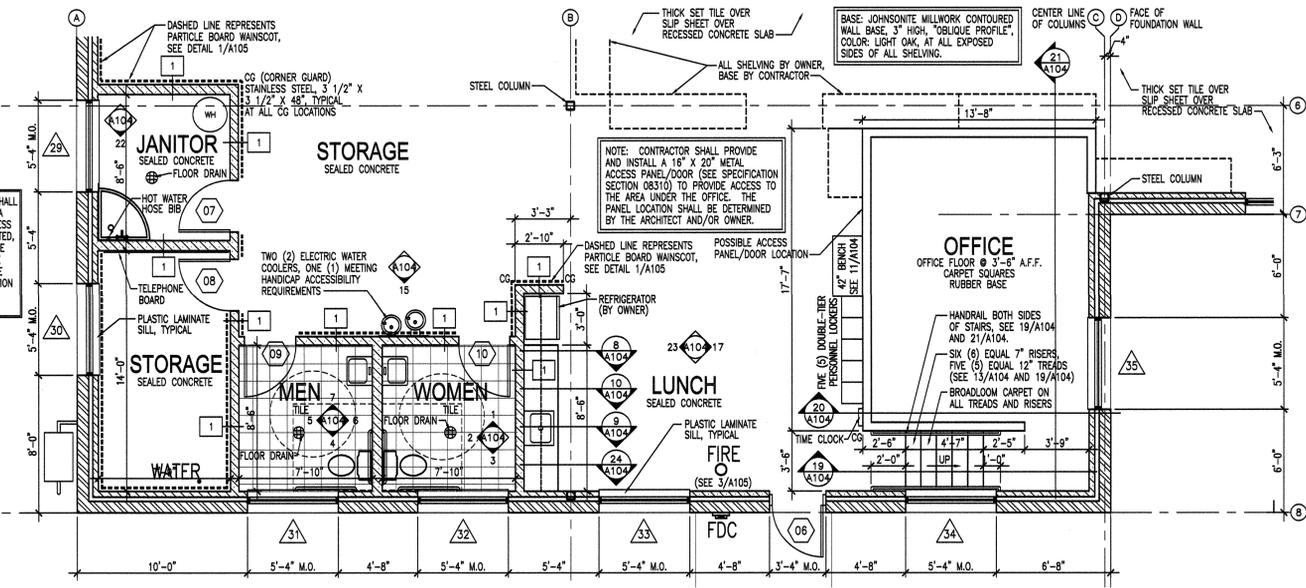
4 TYPICAL CONCRETE REVEAL
SCALE: NOT TO SCALE



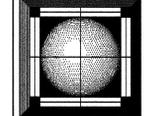
2 ENLARGED BUILDING PLAN AT DOCK
SCALE: 1/4" = 1'-0"



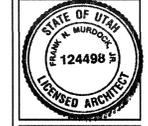
3 ENLARGED PLAN AT ENTRY AND CHECKOUT COUNTERS
SCALE: 1/4" = 1'-0"



1 ENLARGED BUILDING PLAN
SCALE: 1/4" = 1'-0"



NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH

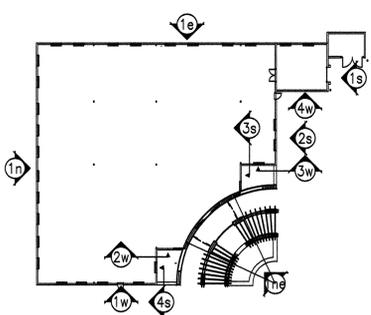
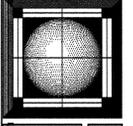


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 TEL: (801) 532-4441 FAX: (801) 532-4220

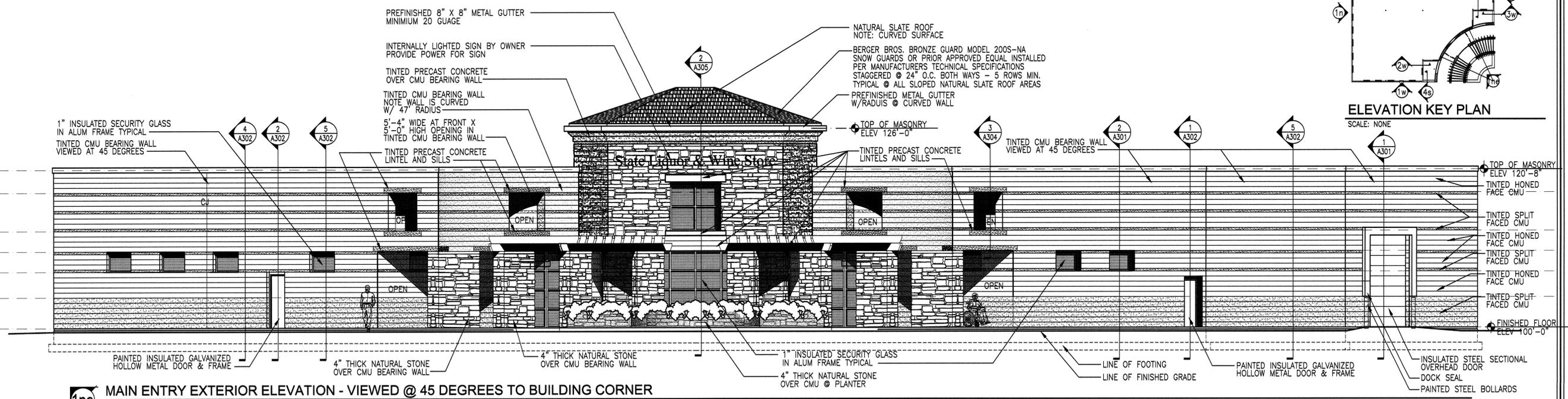
DFCM PROJECT NO.: 07270030
 CONST. DOC. FILE NAME: ABCBT-A106
 PLOT SCALE: 1/8" DRAWN BY: STAFF
 CHECKED BY: FMN DATE: SEPT 2010

A 106

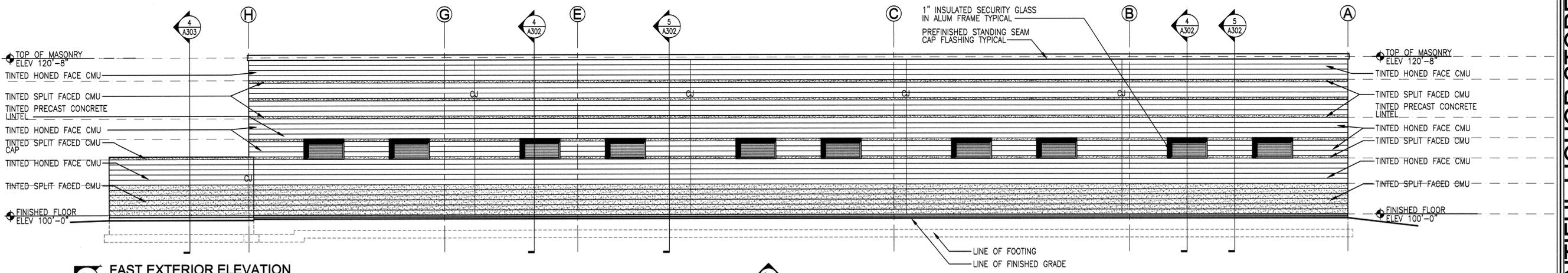
ENLARGED FLOOR PLANS AND DETAILS



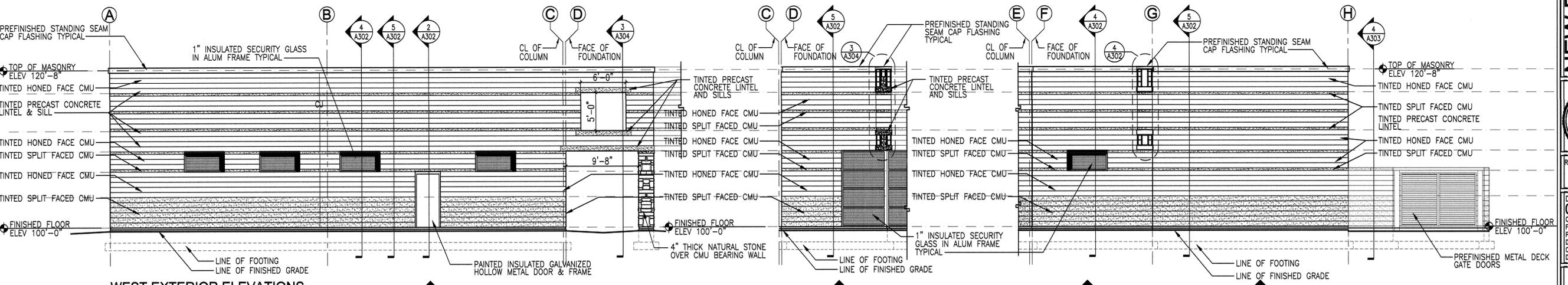
ELEVATION KEY PLAN
SCALE: NONE



1ne MAIN ENTRY EXTERIOR ELEVATION - VIEWED @ 45 DEGREES TO BUILDING CORNER
SCALE: 3/16" = 1'-0"
0 2 4 8 16'



1e EAST EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"
0 2 4 8 16'



WEST EXTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"
0 2 4 8 16'

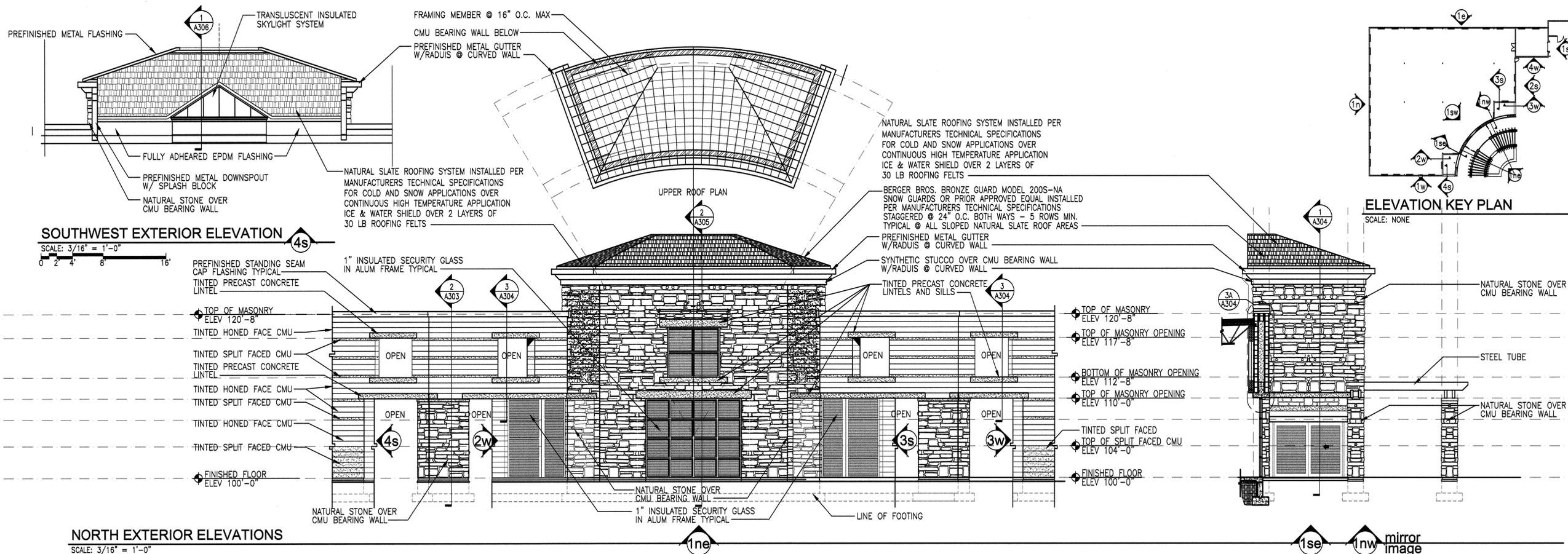
NEW BOUNTIFUL LIQUOR STORE
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FRANK N. MURDOCK JR. ■ Architect & Associates
975 East 100 South, Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220



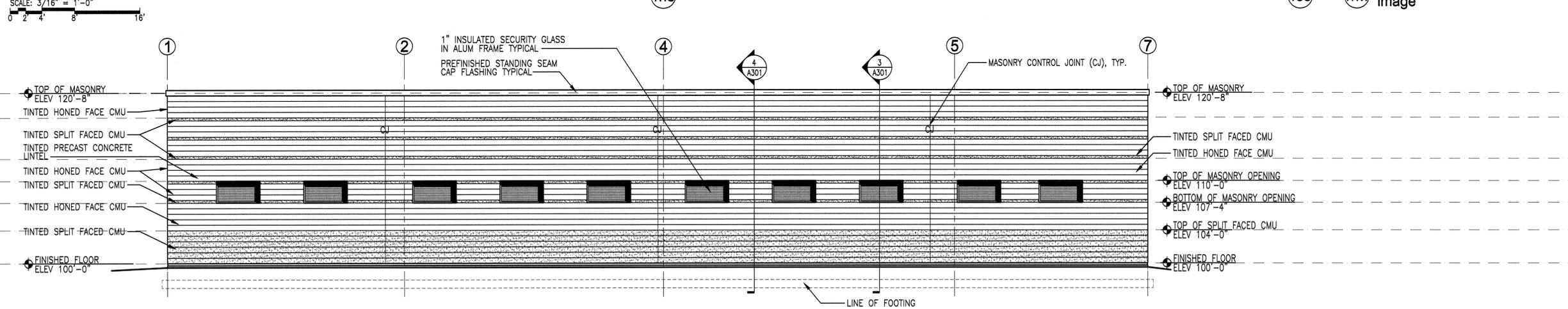
REVISION # DATE:
DFCM PROJECT NO.: 07270030
CONST. DOC.
FILE NAME: ABCBT-A201
PLOT SCALE: 1/2"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: SEPT 2010

A
201

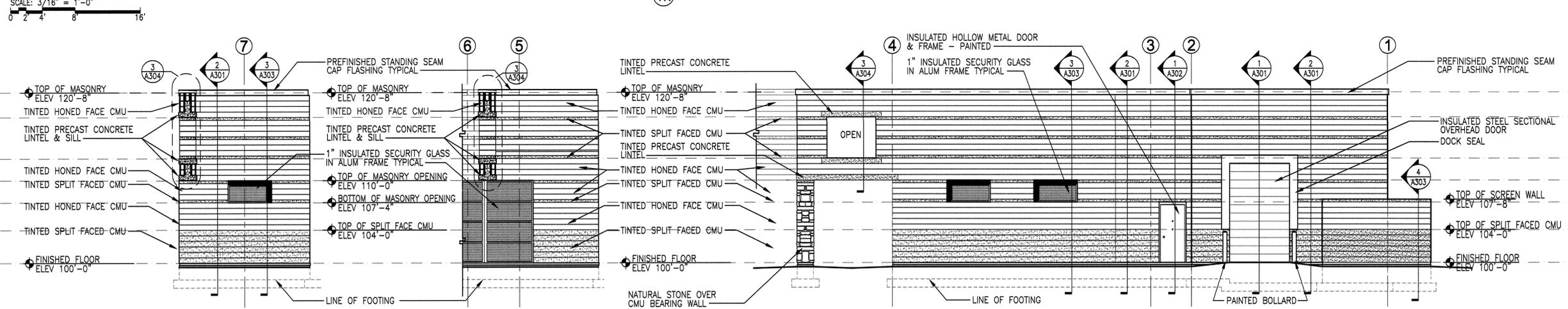
EXTERIOR ELEVATIONS



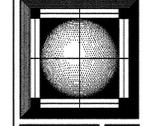
NORTH EXTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"



NORTH EXTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"

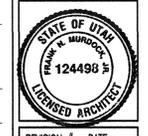


SOUTH EXTERIOR ELEVATIONS
SCALE: 3/16" = 1'-0"



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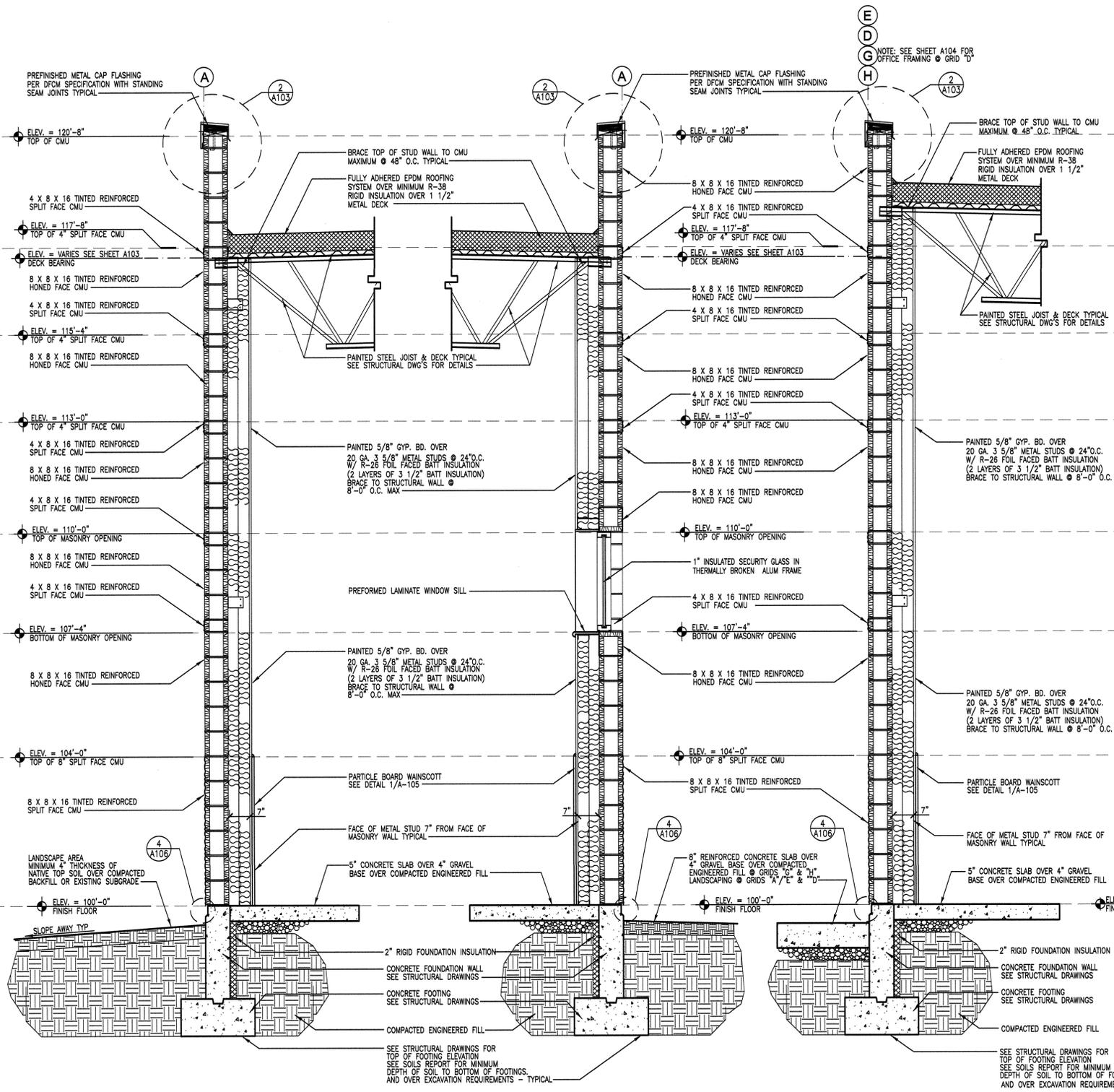


REVISION # DATE:

DFCW PROJECT NO.: 07270030
CONST. DOC.
FILE NAME: AB081-A201
PLOT SCALE: 1/2"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: SEPT 2010

A 202

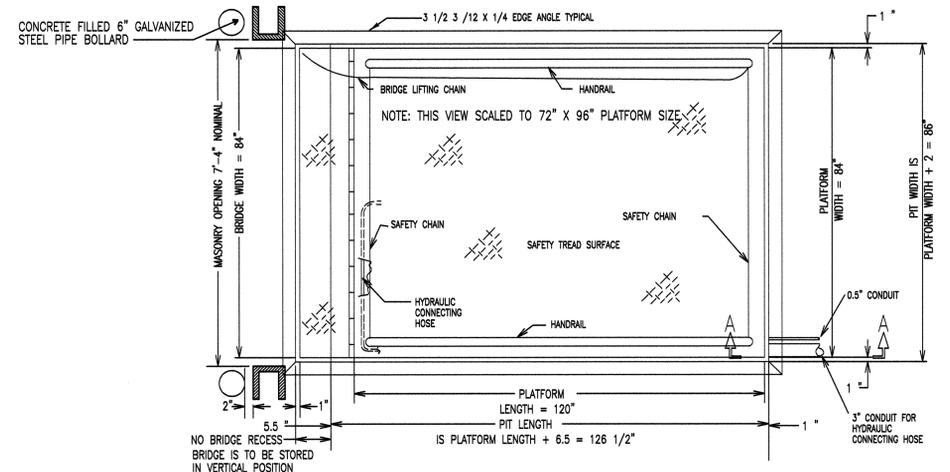
EXTERIOR ELEVATIONS



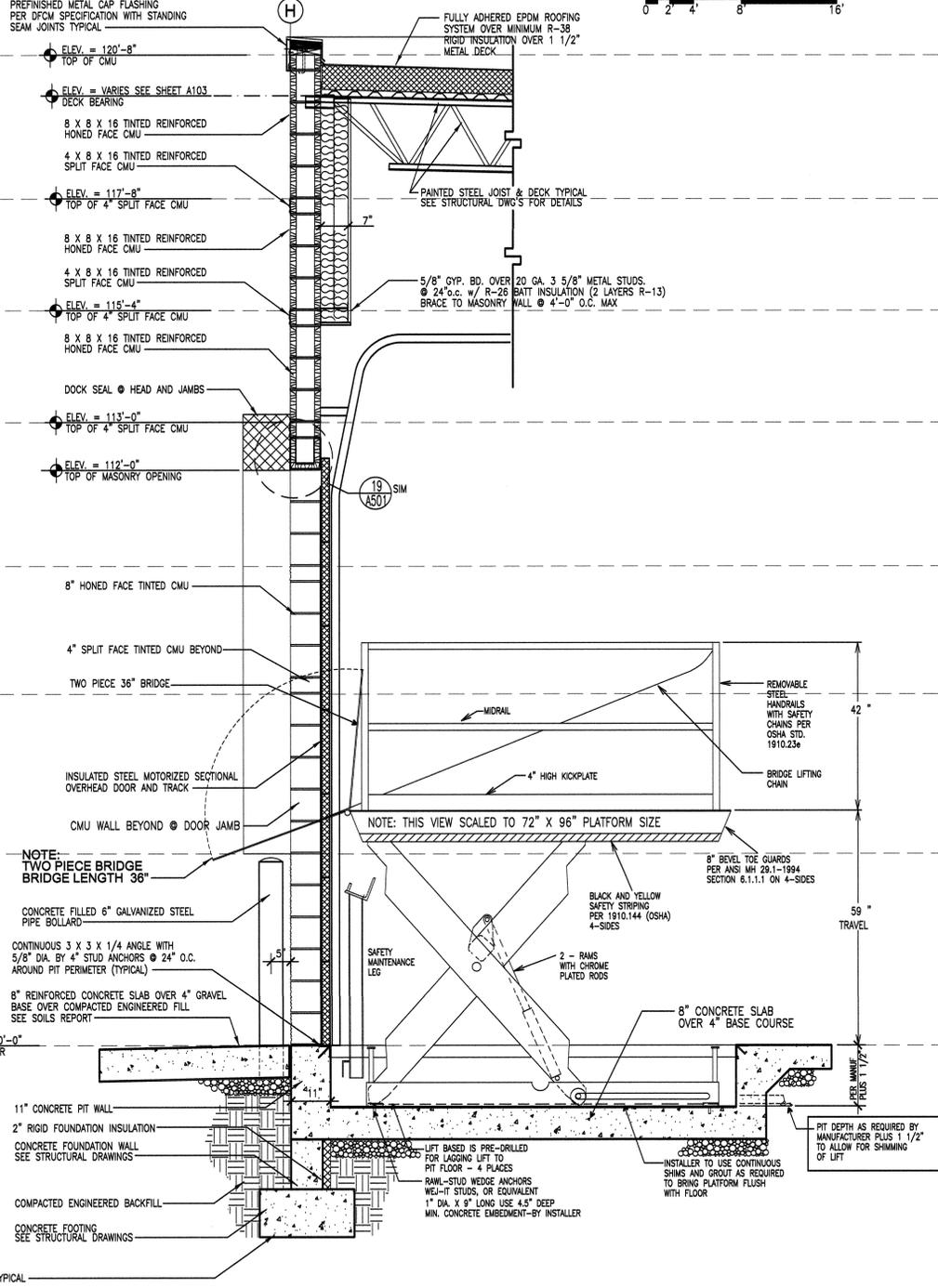
4 WALL SECTION @ GRID "A"
A301 SCALE: 3/4" = 1'-0"

3 WALL SECTION @ GRID "A"
A301 SCALE: 3/4" = 1'-0"

2 WALL SECTION @ GRIDS "E"/"D"/"G" & "H"
A301 SCALE: 3/4" = 1'-0"



5 SCISSOR LIFT PLAN
A301 SCALE: 3/4" = 1'-0" NOTE: PLATFORM IS NOT TO SCALE. THIS VIEW SCALED TO 72" X 96" PLATFORM SIZE



1 WALL SECTION @ SCISSOR LIFT GRID "H"
A301 SCALE: 3/4" = 1'-0"

NEW BOUNTIFUL LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
550 NORTH 450 WEST, BOUNTIFUL, UTAH

WALL SECTIONS & DETAILS

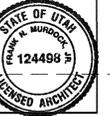
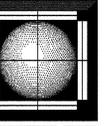
FRANK N MURDOCK JR

Architect & Associates
975 East 100 South, Suite 100, Salt Lake City, Utah 84102
TEL: (801) 532-4441 FAX: (801) 532-4220



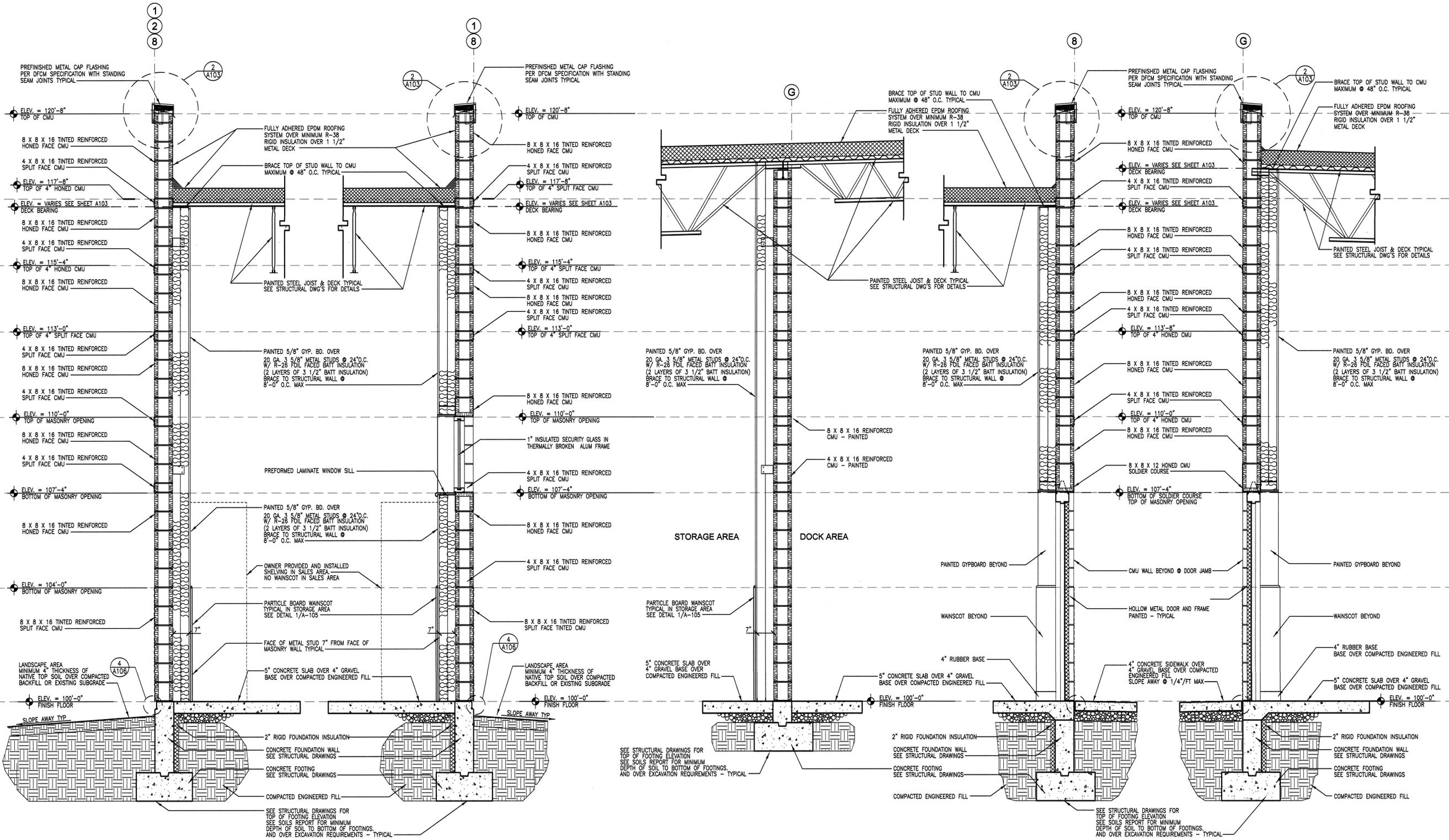
REVISION # DATE:
DFCM PROJECT NO.: 07270030
CONSTR. DOC. FILE NAME: ABC08-A301
PLOT SCALE: 1:16
DRAWN BY: STAF
CHECKED BY: FMN
DATE: SEPT 2010

A 301



REVISION # DATE:

DFCM PROJECT NO.: 07270030
CONSTR. DOC.
FILE NAME: ABCBT-A302
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FM
DATE: SEPT 2010



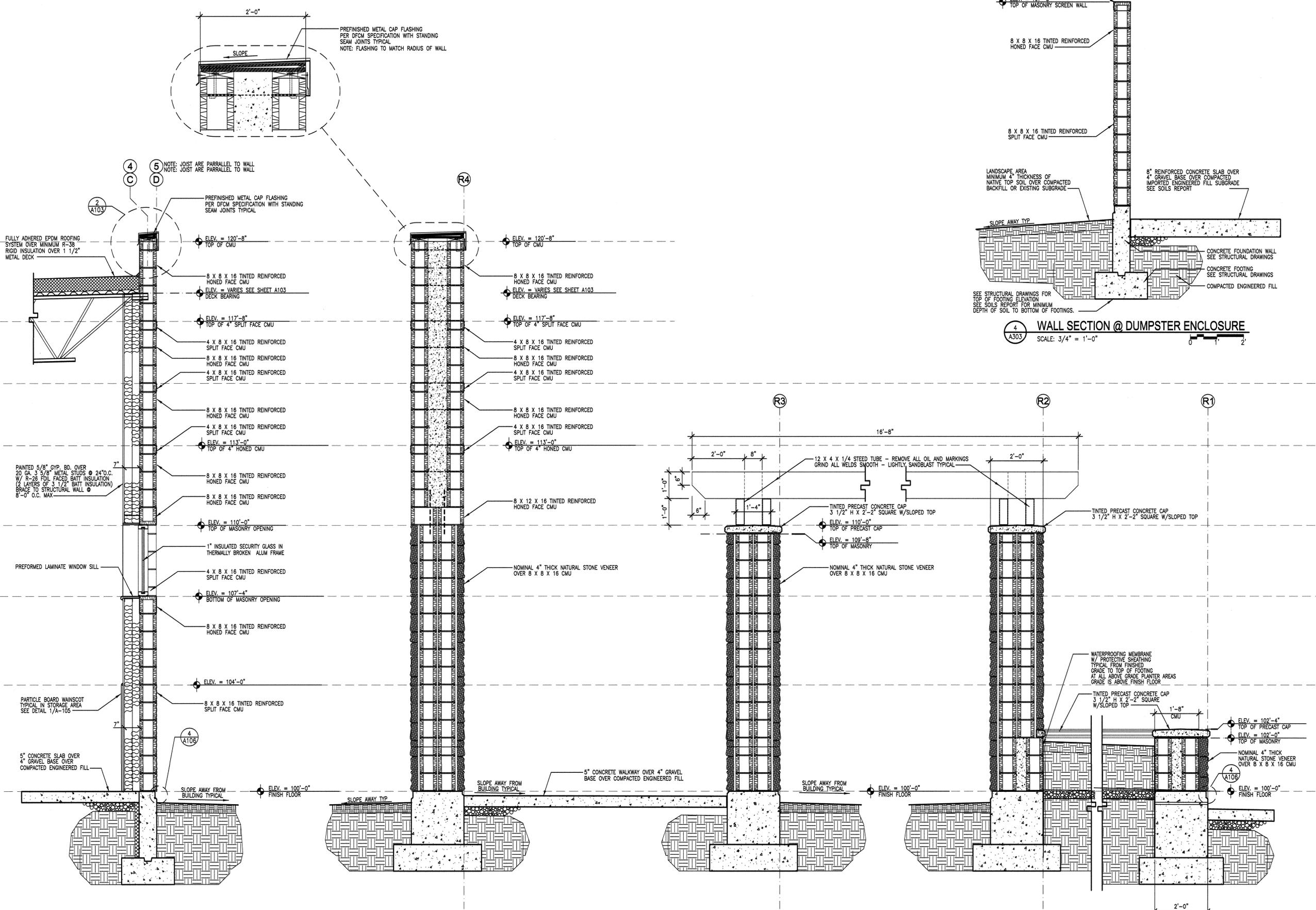
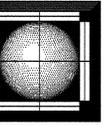
5 WALL SECTION @ GRIDS "1", "8" & "2"
SCALE: 3/4" = 1'-0"

4 WALL SECTION @ GRIDS "1" & "8"
SCALE: 3/4" = 1'-0"

3 WALL SECTION @ GRID "G"
SCALE: 3/4" = 1'-0"

2 WALL SECTION @ GRID "8"
SCALE: 3/4" = 1'-0"

1 WALL SECTION @ GRID "G"
SCALE: 3/4" = 1'-0"



3 WALL SECTION @ GRID "5" AND "GRID "D"
 A303 SCALE: 3/4" = 1'-0"

2 WALL SECTION @ GRID "R4" AND GRID "R3"
 A303 SCALE: 3/4" = 1'-0"

1 WALL SECTION @ GRID "R2" AND GRID "R1"
 A303 SCALE: 3/4" = 1'-0"

4 WALL SECTION @ DUMPSTER ENCLOSURE
 A303 SCALE: 3/4" = 1'-0"

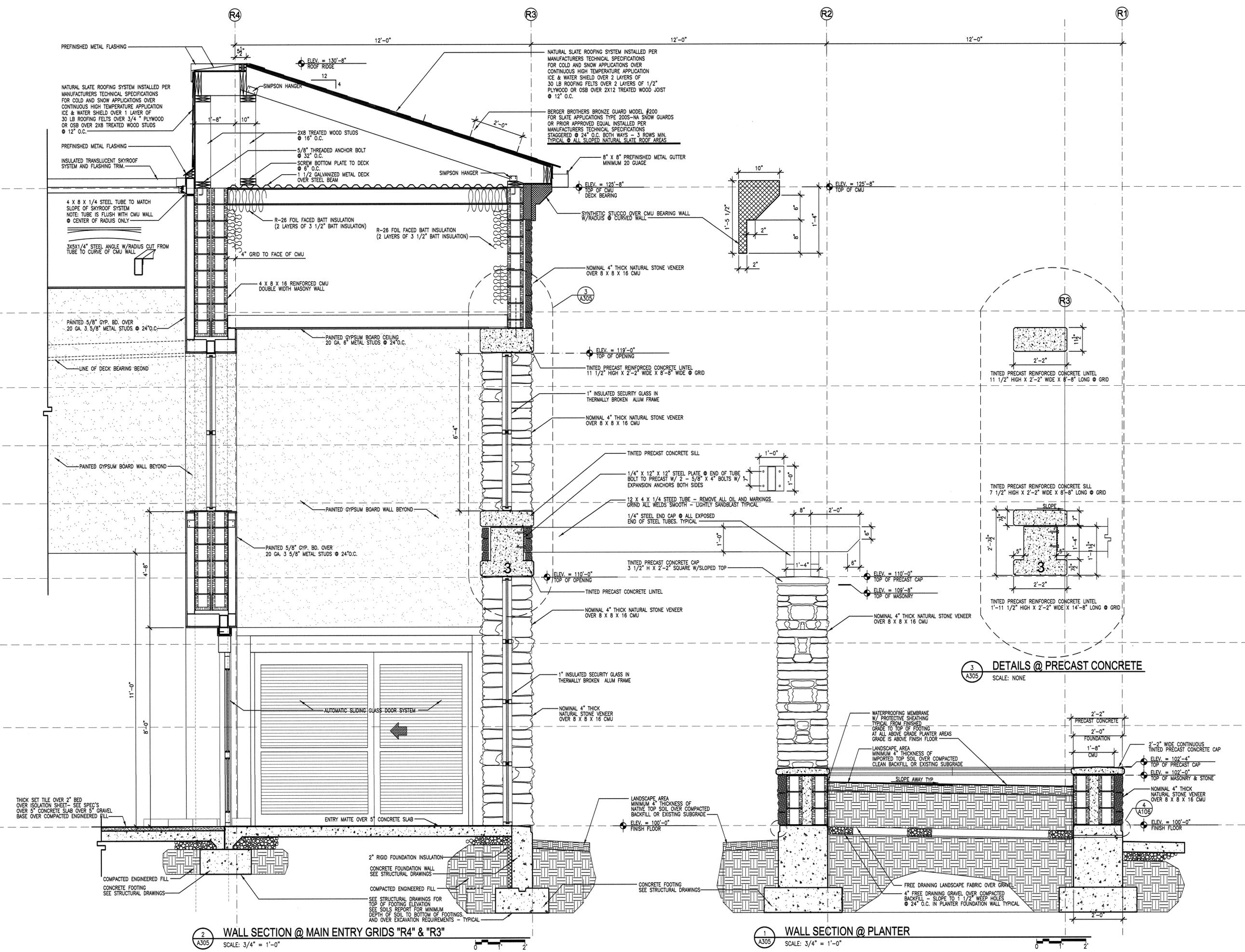
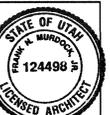
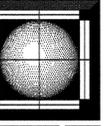
NEW BOUNTIFUL LIQUOR STORE
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REVISION # DATE:
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 CONSTR. DOC.
 FILE NAME: ABCBT-A303
 PLOT SCALE: 1:16
 DRAWN BY: STAFF
 CHECKED BY: FNM
 DATE: SEPT 2010

A 303

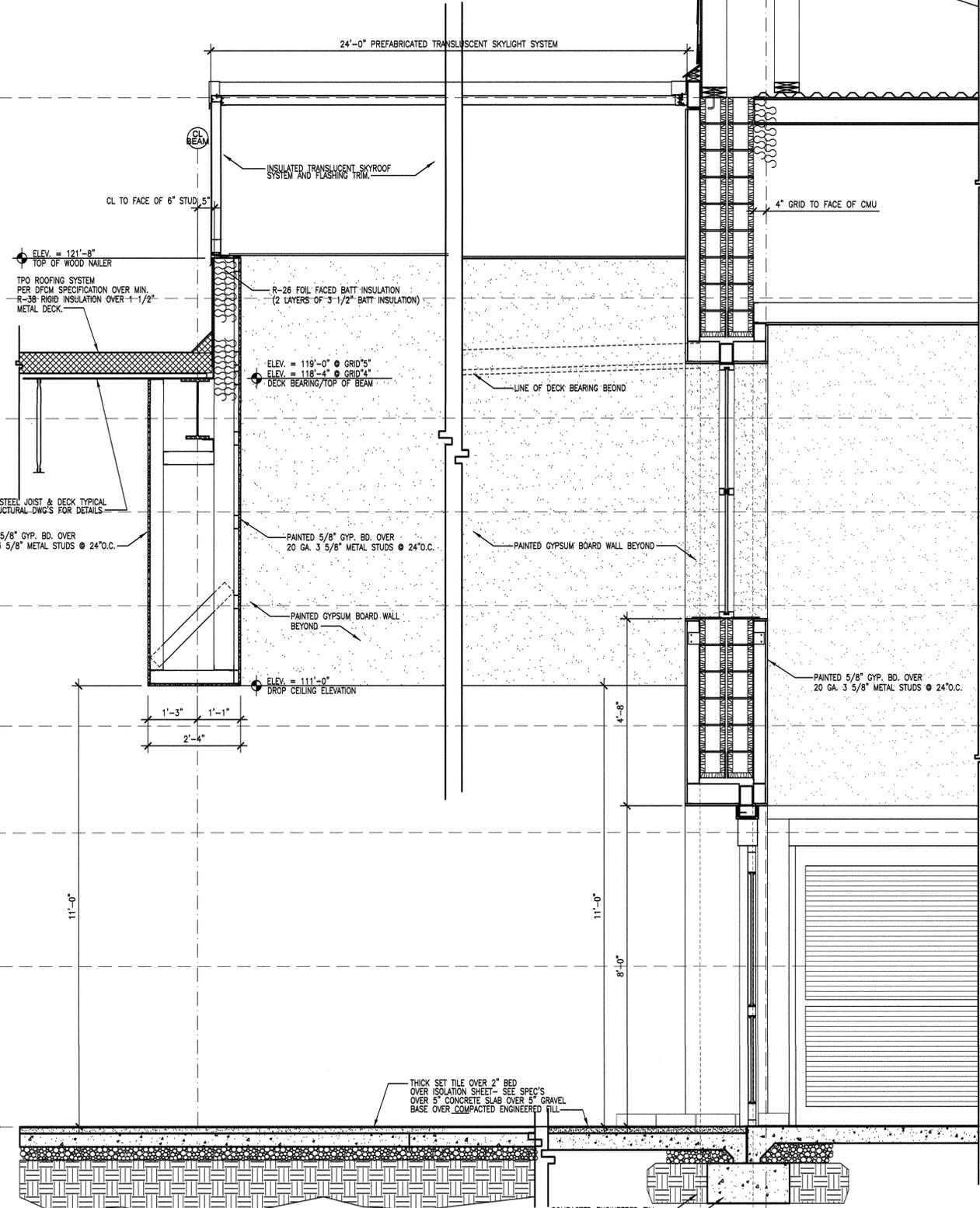
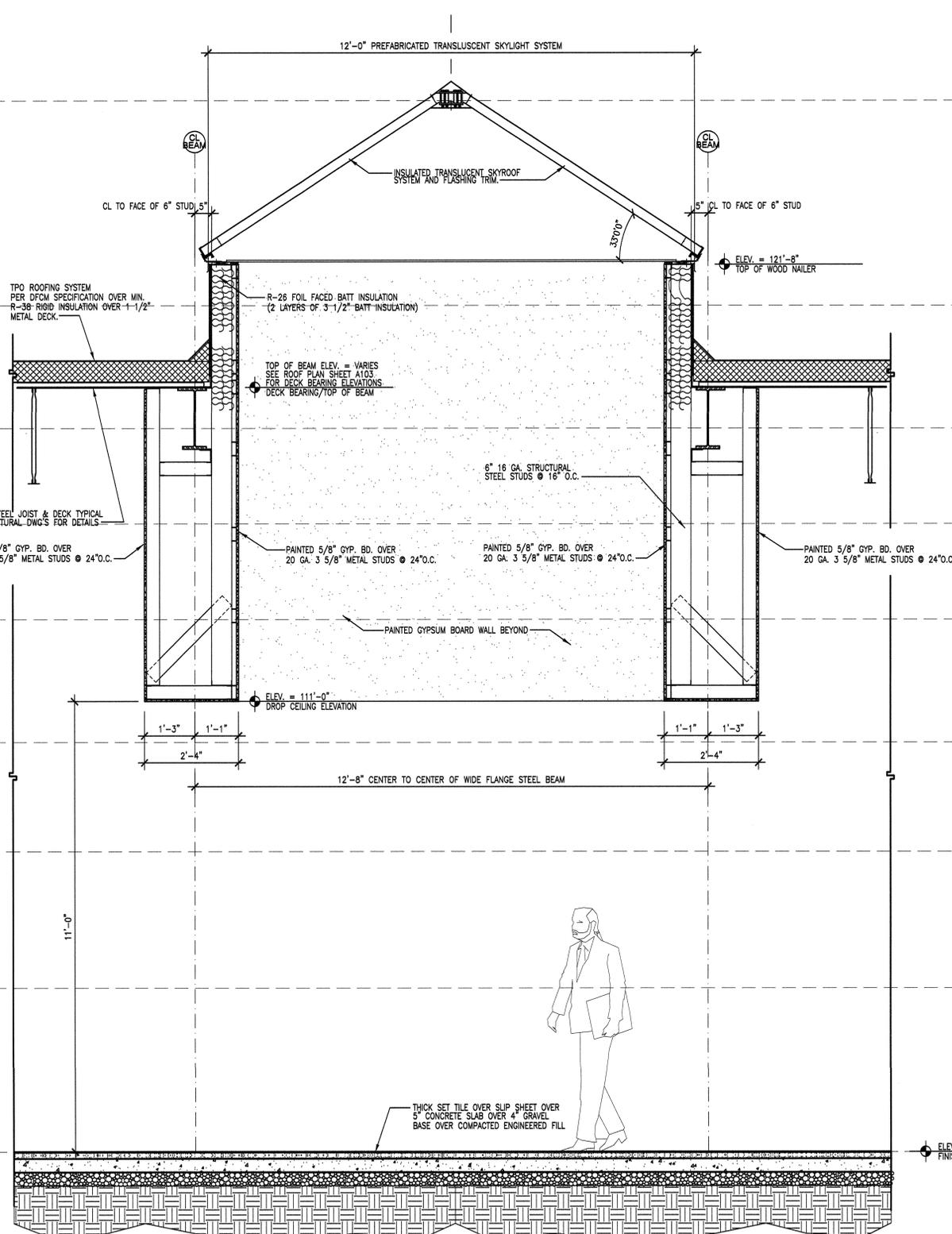
WALL SECTIONS & DETAILS



2 WALL SECTION @ MAIN ENTRY GRIDS "R4" & "R3"
SCALE: 3/4" = 1'-0"

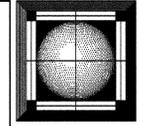
1 WALL SECTION @ PLANTER
SCALE: 3/4" = 1'-0"

3 DETAILS @ PRECAST CONCRETE
SCALE: NONE



2 WALL SECTION @ TRANSLUCENT SKYLIGHT
SCALE: 3/4" = 1'-0"

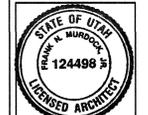
1 WALL SECTION @ TRANSLUCENT SKYLIGHT
SCALE: 3/4" = 1'-0"



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550 NORTH 450 WEST, BOUNTIFUL, UTAH

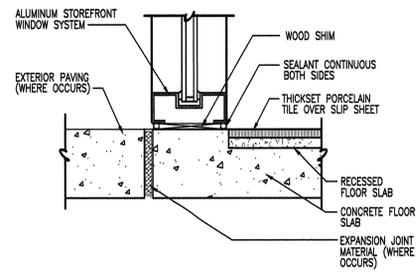
WALL SECTIONS & DETAILS

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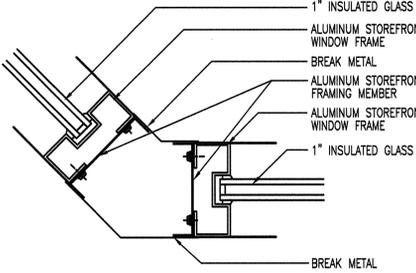


REVISION # DATE:
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CONSTR. DOC.
FILE NAME: ABCBT-A306
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: SEPT 2010

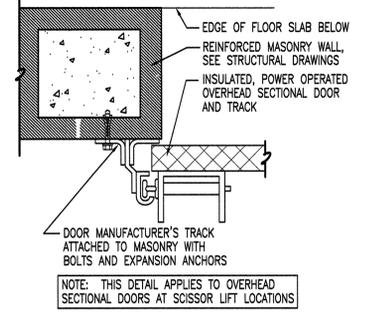
A 306



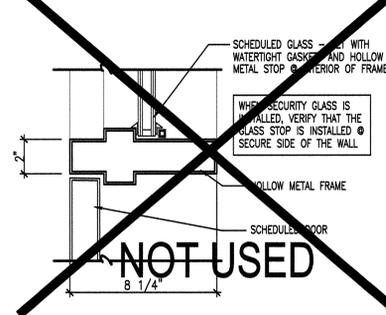
29 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE



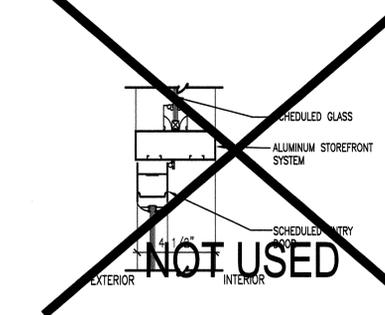
28 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



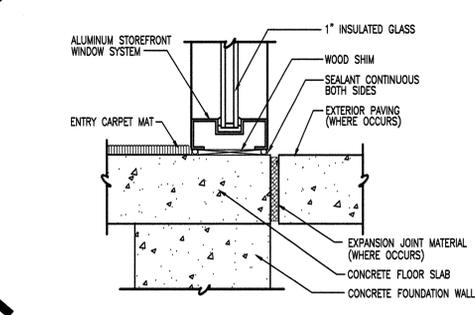
27 OVERHEAD DOOR JAMB
SCALE: NONE



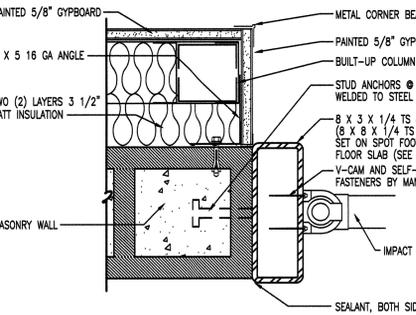
26 HM DOOR HEAD/TRANSOM SILL
SCALE: NONE



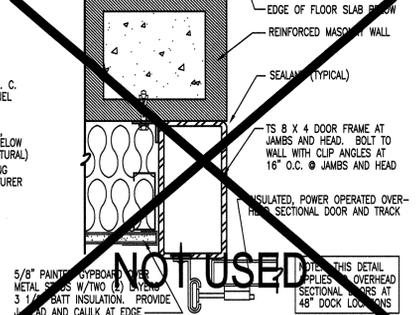
25 STOREFRONT DOOR HEAD/TRANSOM SILL
SCALE: NONE



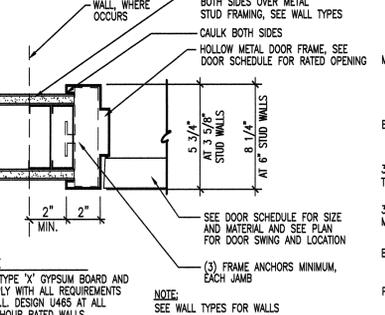
24 STOREFRONT WINDOW SILL
SCALE: NONE



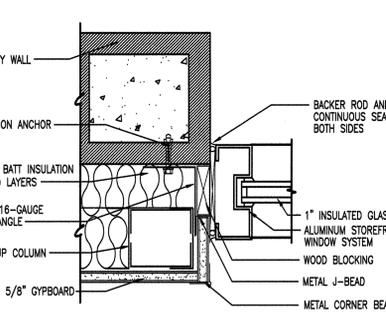
18 IMPACT DOOR JAMB/head sim.
SCALE: NONE



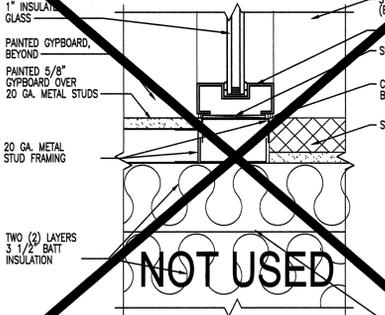
19 OVERHEAD DOOR JAMB
SCALE: NONE



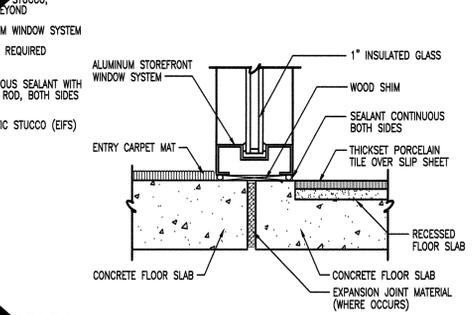
20 HOLLOW METAL DOOR (INTERIOR)
SCALE: NONE



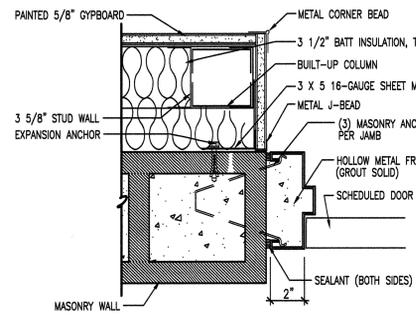
21 STOREFRONT WINDOW JAMB
SCALE: NONE



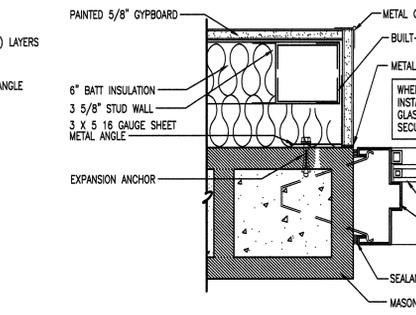
22 STOREFRONT WINDOW SILL
SCALE: NONE



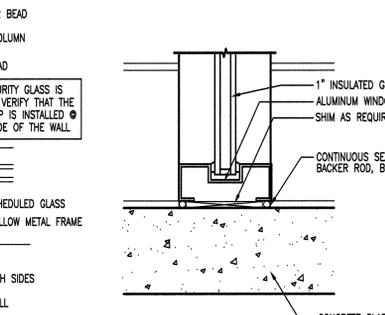
23 STOREFRONT WINDOW SILL
SCALE: NONE



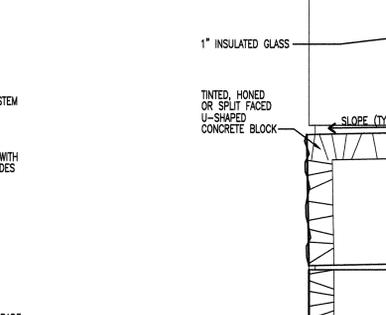
17 HOLLOW METAL DOOR JAMB
SCALE: NONE



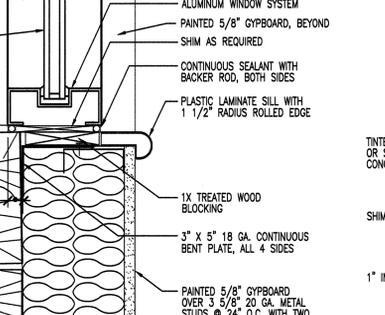
16 HOLLOW METAL WINDOW JAMB
SCALE: NONE



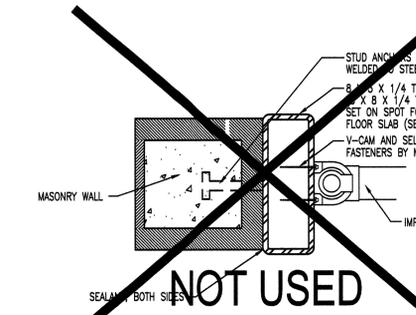
15 STOREFRONT WINDOW SILL
SCALE: NONE



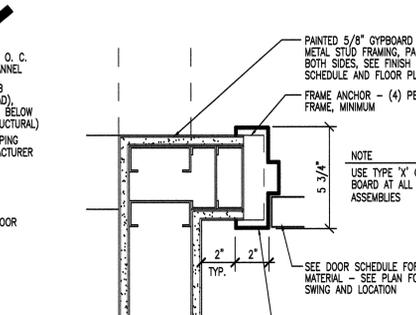
14 STOREFRONT WINDOW SILL
SCALE: NONE



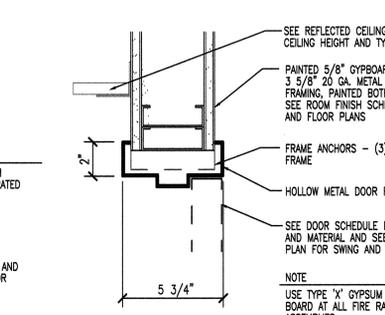
13 STOREFRONT WINDOW HEAD
SCALE: NONE



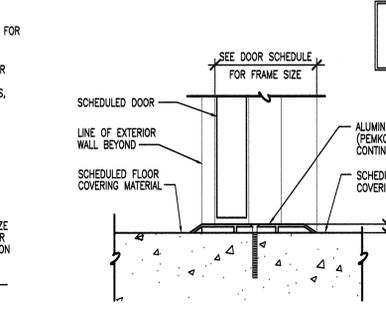
7 IMPACT DOOR JAMB
SCALE: NONE



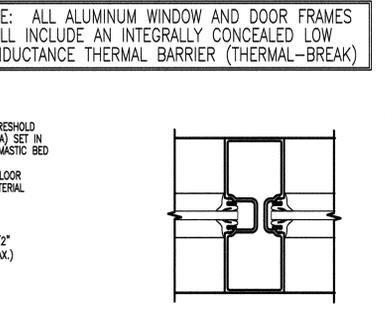
8 DOOR JAMB DETAIL
SCALE: NONE



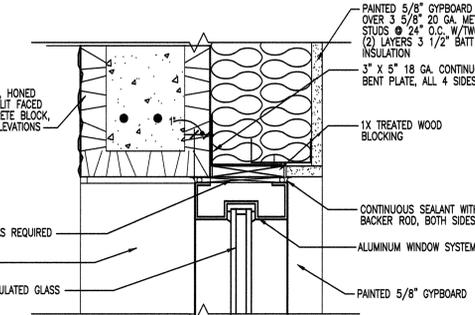
9 DOOR HEAD
SCALE: NONE



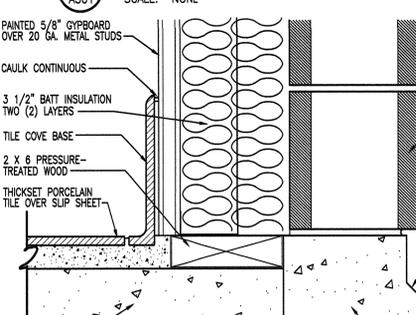
10 DOOR THRESHOLD
SCALE: NONE



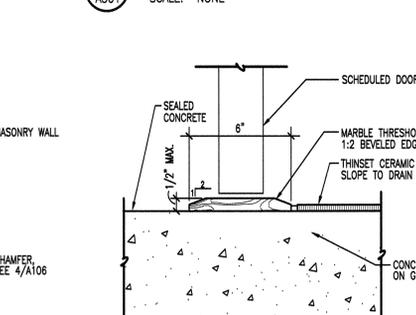
11 STOREFRONT MULLION/MUNTON
SCALE: NONE



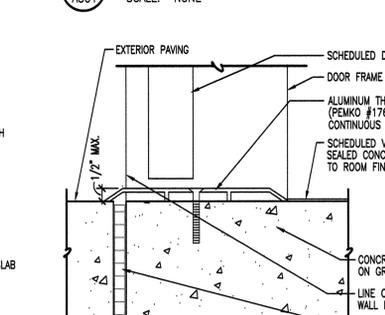
12 STOREFRONT WINDOW JAMB
SCALE: NONE



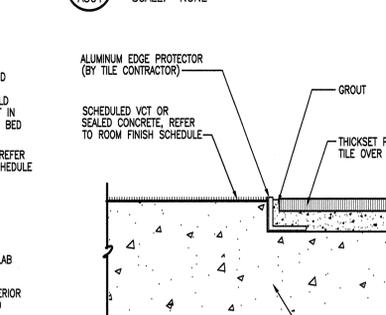
6 THICKSET TILE BASE
SCALE: NONE



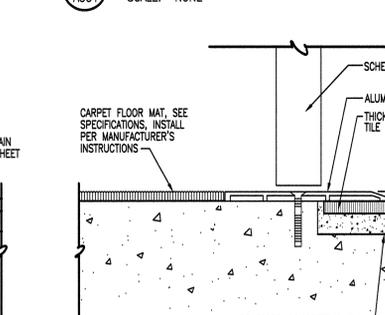
5 MARBLE THRESHOLD
SCALE: NONE



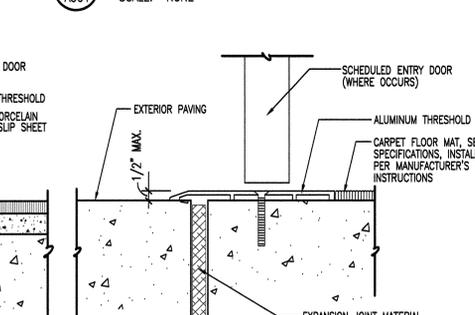
4 DOOR THRESHOLD
SCALE: NONE



3 CONCRETE TO TILE TRANSITION
SCALE: NONE

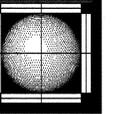


2 TILE TO FLOOR MAT DETAIL
SCALE: NONE



1 DOOR THRESHOLD (entry carpet mat)
SCALE: NONE

NEW BOUNTIFUL LIQUOR STORE
 DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
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 STATE OF UTAH
 FRANK N. MURDOCK JR.
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 LICENSED ARCHITECT
 REVISION # DATE:
 DFCM PROJECT NO.: 07270030
 CONSTR. DOC. FILE NAME: ABCBT-A501
 PLOT SCALE: 3/12
 DRAWN BY: STAFF
 CHECKED BY: FMJ
 DATE: SEPT 2010
A 501



NEW BOUNTIFUL LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
550 NORTH 450 WEST, BOUNTIFUL, UTAH

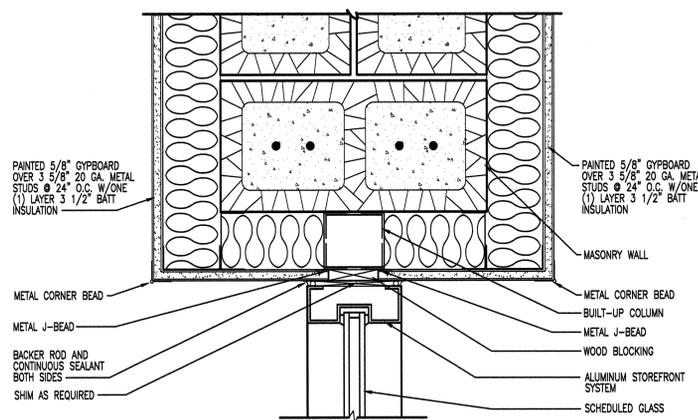


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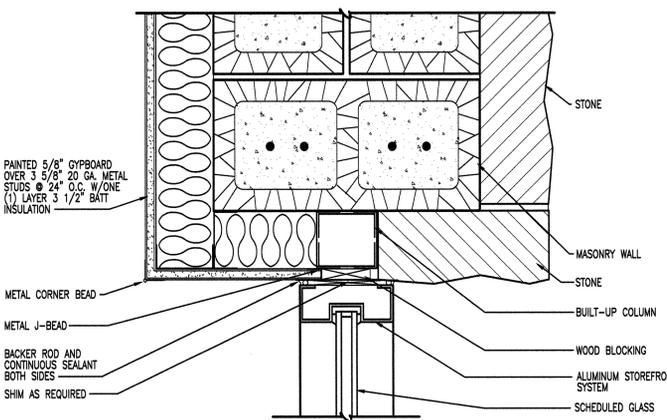
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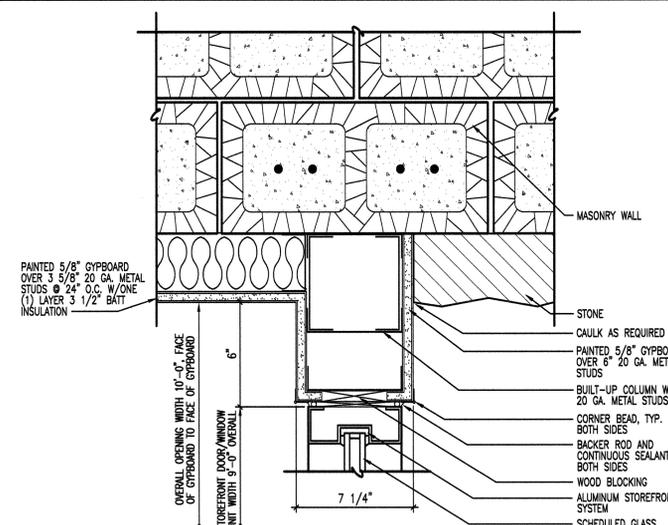
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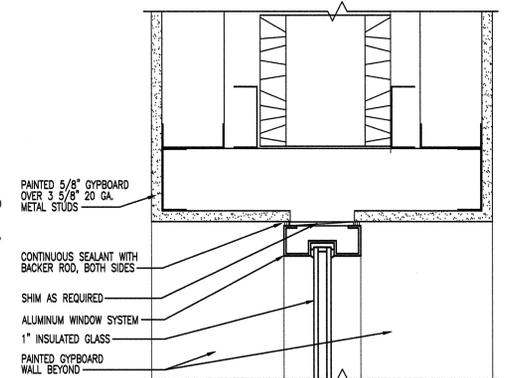
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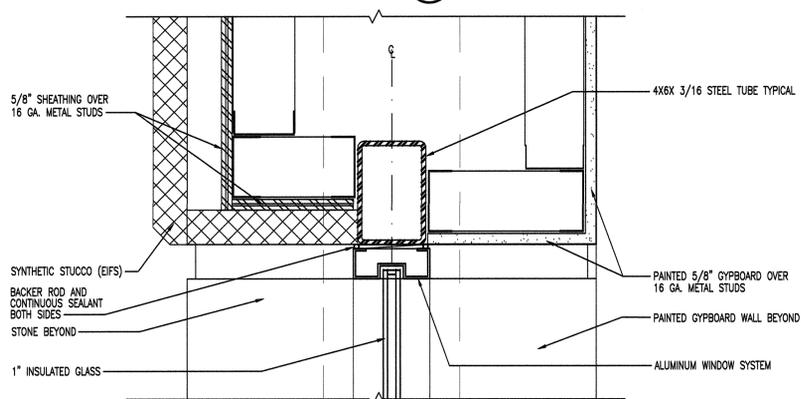
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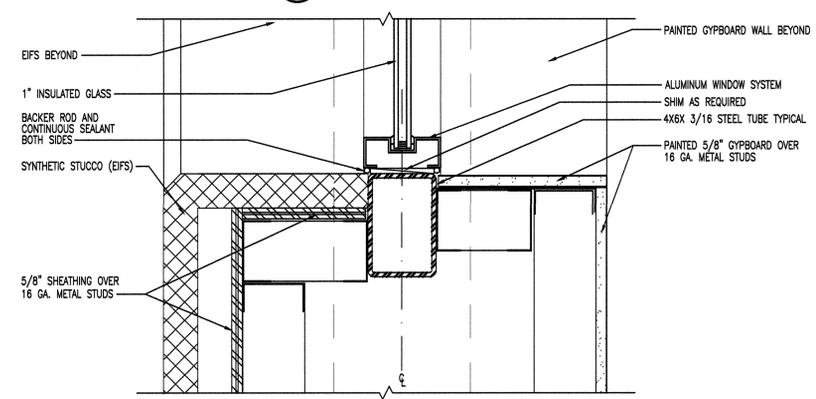
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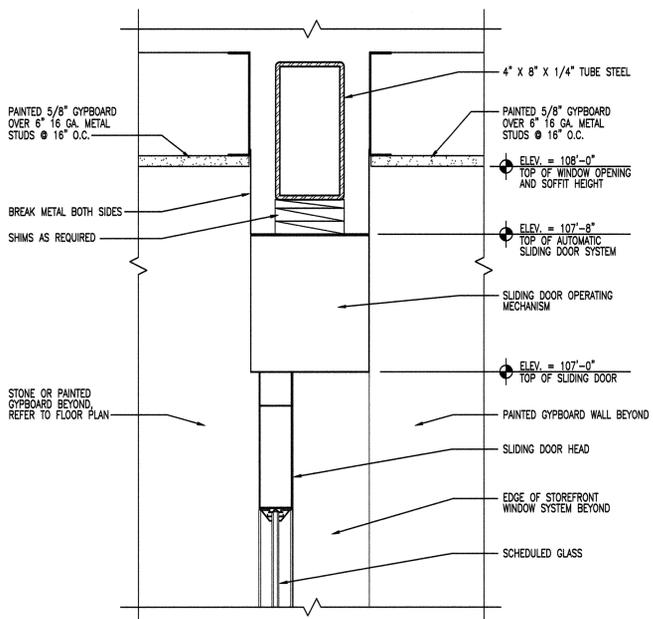
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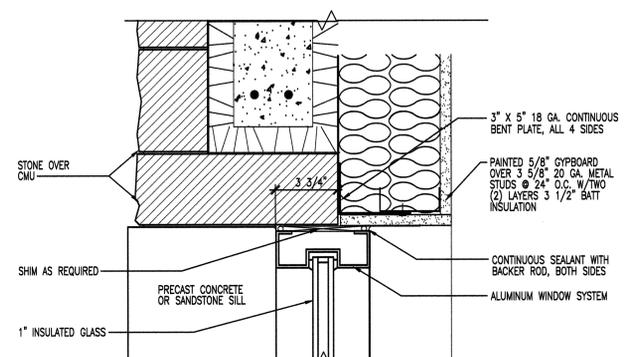
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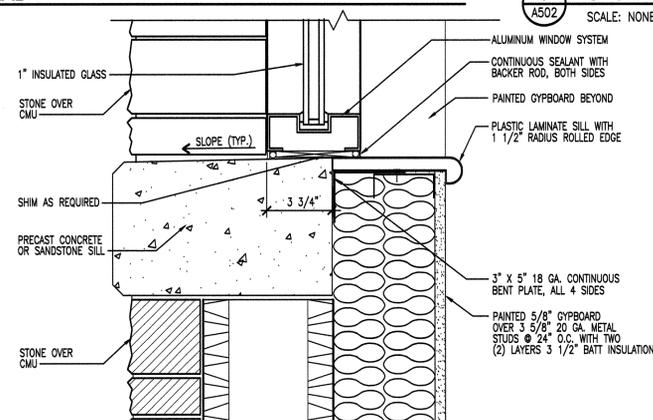
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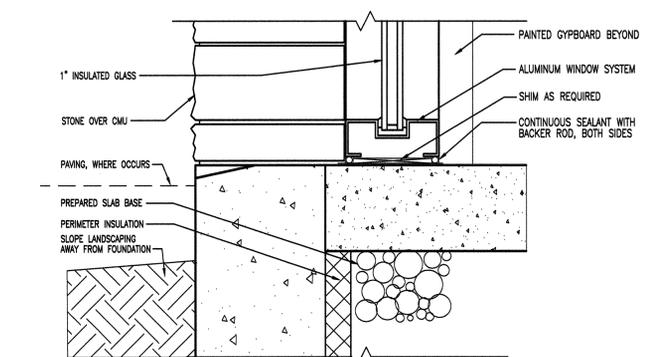
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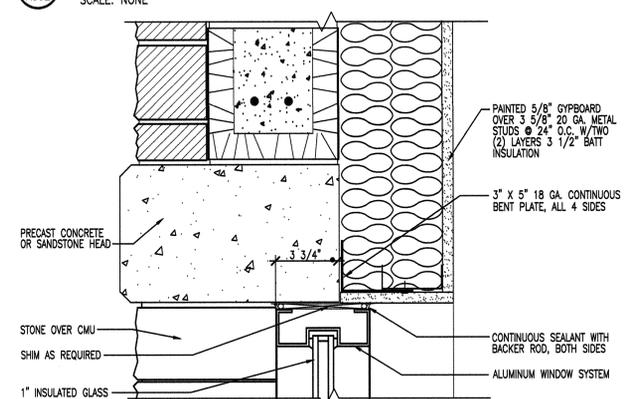
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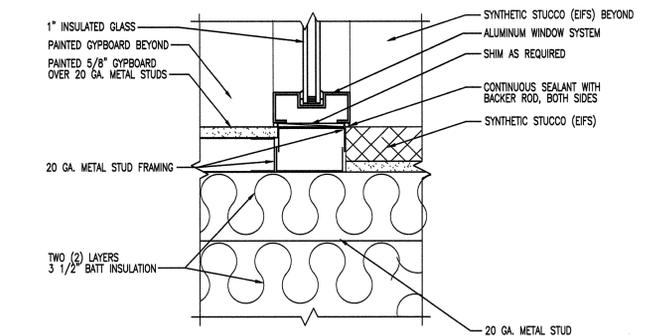
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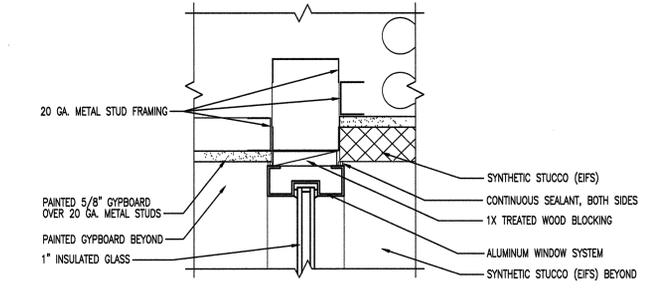
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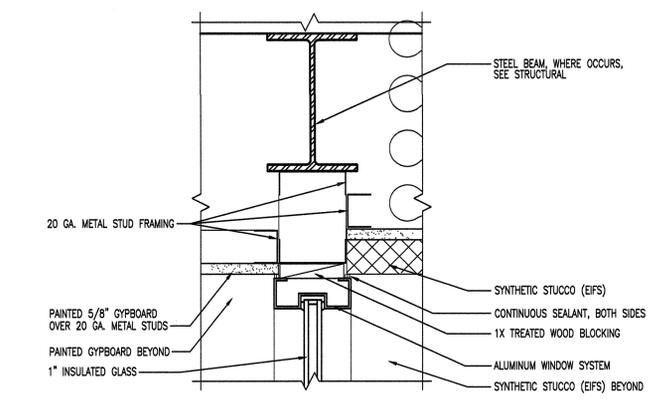
4 STOREFRONT WINDOW HEAD
SCALE: NONE



3 WINDOW SILL
SCALE: NONE



2 WINDOW JAMB
SCALE: NONE



1 WINDOW HEAD
SCALE: NONE

STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

ROOF:
 DEAD LOAD: DL = 20 PSF
 GROUND SNOW LOAD: Pg = 43 PSF
 FLAT ROOF SNOW LOAD: Pf = 20 PSF
 SNOW EXPOSURE FACTOR: Ce = 1.0
 THERMAL IMPORTANCE FACTOR: It = 1.0
 THERMAL FACTOR: Ct = 1.0

WIND LOAD:
 BASIC WIND SPEED: V = 120 MPH (3 SEC GUST)
 IMPORTANCE FACTOR: I = 1.0
 WIND EXPOSURE: "B"
 COMPONENT AND CLADDING PRESSURE: P = 35 PSF

SEISMIC:
 OCCUPANCY CATEGORY: II
 IMPORTANCE FACTOR: I = 1.0
 DESIGN CATEGORY: D
 SPECTRAL RESPONSE COEF: SDS = 1.03, SD1 = 0.64
 SITE CLASS: D
 BASIC SEISMIC-FORCE-RESISTING SYSTEM:
 SPECIAL REINFORCED MASONRY SHEAR WALLS
 R=5, OMEGA=2.5, Cd=3.5, Cs=0.206

SOILS:
 NET ALLOWABLE SOIL PRESSURE = 2500 PSF
 (PER GEOTECHNICAL REPORT BY GSH DATED
 JANUARY 8, 2010, JOB NO. 0443-006-09)

GENERAL

- ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2009 INTERNATIONAL BUILDING CODE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
- DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
- OPTIONS ARE FOR THE CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DESIGN CHANGES. COST ASSOCIATED WITH ANY DESIGN WORK INITIATED BY THE OPTION SHALL BE BORN BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
- TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL OF THE STRUCTURAL ELEMENTS ARE COMPLETE.
- DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
- THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS, AND PREFABRICATED JOISTS.
- ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
- OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

QUALITY ASSURANCE PLAN

- SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
- THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
- SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) 91-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
- OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES ARE BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION 1704.2.2.
- STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704.3 AND TABLE 1704.3.
- WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704.3.1 AND TABLE 1704.3.
- HIGH-STRENGTH BOLTS: PERIODIC SPECIAL INSPECTION SHALL BE PROVIDED FOR INSTALLATION OF HIGH-STRENGTH BOLTS IN ACCORDANCE WITH AISC SPECIFICATIONS. SEE IBC SECTION 1704.3.3.
- CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704.4 AND TABLE 1704.4.
- MASONRY CONSTRUCTION: LEVEL 1 SPECIAL INSPECTION SHALL BE PROVIDED FOR MASONRY CONSTRUCTION IN ACCORDANCE WITH SECTION 1704.5.2 AND TABLE 1704.5.1. TESTING SHALL COMPLY WITH SECTION 1708.1.3
- SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL IN ACCORDANCE WITH SECTION 1704.7.
- EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS ICC-ES REPORT TO STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
 - ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
 - ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

STRUCTURAL DEFERRED SUBMITTALS

- CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECT/ENGINEER BEFORE SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING. DEFERRED SUBMITTAL ITEMS SHALL BE INSTALLED AFTER THE BUILDING OFFICIAL HAS GIVEN THEIR APPROVAL PER IBC 107.3.4.2.

- ITEMS:
 1. OPEN WEB METAL JOISTS AND GIRDEERS

FOOTINGS

- ALL FOOTINGS SHALL BEAR ON ENGINEERED COMPACTED FILL EXTENDING DOWN TO SUITABLE SOILS AS PER THE GEOTECHNICAL REPORT BY GORDON SPILKER HUBER GEOTECHNICAL CONSULTANTS, INC. JOB NUMBER 0443-006-09 DATED JAN 8, 2010. EXCAVATION MUST BE FIELD VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY STRUCTURAL FILL.
- FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND NOT MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
- EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-6" BELOW FINISHED EXTERIOR GRADE.
- NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE GEOTECHNICAL REPORT AND ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.
- WHERE 6" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.
- ALL VERTICAL EXCAVATIONS MUST BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

REINFORCING STEEL

- ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-99 AND ACI STANDARD 318-08.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
- ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.
- REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (DBA) SHALL COMPLY WITH ASTM A706 OR ANOTHER WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE AWS RECOMMENDATIONS.
- ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICES SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
- WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.
- COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
 - UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS)..... 3"
 - SLABS ON GRADE..... 2"
 - FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC), BEAMS AND COLUMNS..... 2"
 - STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH..... 1"
 - INTERIOR WALL SURFACES..... 1"
 - INTERIOR BEAMS AND COLUMNS..... 1-1/2"
 - IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
- PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

CONCRETE

- CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
 - FOOTINGS, FOUNDATION WALLS, & COLUMNS/PIERS..... 4500 PSI
 - INTERIOR SLABS ON GRADE..... 4500 PSI
 - EXTERIOR FLAT WORK..... 4500 PSI
 - LT WEIGHT CONCRETE ON METAL DECK..... 3000 PSI
- THE VARIOUS CONCRETE ITEMS ARE ASSIGNED TO THE FOLLOWING EXPOSURE CATEGORIES AND CLASSES PER SECTION 4.2 OF ACI 318-08:
 - FOOTINGS & FOUNDATION WALLS..... F1, SO, PD, C1
 - INTERIOR SLABS ON GRADE..... FO, SO, PD, C1
 - EXTERIOR FLAT WORK..... F1, SO, PD, C1
 - LT WEIGHT CONCRETE ON METAL DECK..... FO, SO, PD, C1
- SEE TABLE 4.2.1 OF ACI 318-08 FOR EXPLANATIONS OF CATEGORIES AND CLASSES LISTED ABOVE.
- A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK. ALL MIX DESIGNS SHALL INCORPORATE REQUIREMENTS AND RESTRICTIONS FOUND IN TABLES 4.3.1, 4.4.1, 4.4.2, AND 4.5.1 OF ACI 318-08. IF TWO OR MORE REQUIREMENTS ARE IN CONFLICT, THE MORE RESTRICTIVE REQUIREMENT SHALL BE FOLLOWED.

CONCRETE, CONT

- ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:
 - VERT REINF #5 @ 16" CENTER OF WALL
 - 8" WALL #5 @ 12" #5 @ 16" CENTER OF WALL
- DOVEL WELDED BARS 3/8" DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE 3/8" DIAMETER IS NOT POSSIBLE. IN ADDITION, PROVIDE (2) #5 CONTINUOUS BARS TOP AND BOTTOM OF 6" AND 8" WALLS AND (2) #6 BARS TOP AND BOTTOM OF WALLS 10" OR THICKER.
- BEFORE CONCRETE IS Poured CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
- ADD (2) #5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.
- WHERE OPENINGS LARGER THAN 16" IN ANY DIRECTION OCCUR IN WALLS OR SLABS, PROVIDE SAME SIZE ADDITIONAL, FULL LENGTH REINFORCING AT EACH SIDE OF OPENING EQUAL TO 1/2 THE NUMBER OF BARS INTERRUPTED BY THE OPENING. SPACE ADDITIONAL BARS AT 4 x BAR DIAMETER.
- ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE PANELS WITH A MAXIMUM WIDTH OF 20' BETWEEN CONTROL OR CONSTRUCTION JOINTS; REFER TO TYPICAL DETAILS ON DRAWINGS. UNLESS OTHERWISE NOTED, SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6x6-wt. 4-wt. 4 WELDED WIRE FABRIC.

MASONRY (CMU)

- ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALLOWED TO PRESERVE UNOBTURATED VERTICAL CAVITIES OF 2"x3" MINIMUM.
- CONCRETE FOR BLOCK FILL SHALL HAVE 3/8" MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOID. WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCE WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.
- AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.
- ALL STEEL JOIST, JOIST GIRDER, AND STEEL BEAM POCKETS IN MASONRY SHALL BE GROUTED SOLID UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- HORIZONTAL BARS SHALL BE PLACED IN BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS AND AT 48" OC MAXIMUM BETWEEN TOP OF WALL AND FOUNDATION. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS. WHERE STRUCTURAL STEEL COLUMNS OR BEAMS INTERRUPT THE CONTINUITY OF A BOND BEAM, DOWELS MATCHING BOND BEAM REINFORCEMENT SHALL BE WELDED TO THE STRUCTURAL STEEL TO PROVIDE CONTINUITY.
- ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING. LAP ALL SPLICES IN MASONRY PER REBAR SCHEDULE. PLACE ALL BARS SECURELY PRIOR TO GROUTING.
- MASONRY REINFORCEMENT: THE MINIMUM REINFORCEMENT IN GROUTED CELLS FOR ALL MASONRY WALLS SHALL BE AS FOLLOWS:
 - 8" WALLS: #5 @ 32" OC VERTICAL AND (2) #4 @ 48" OC HORIZONTAL
- ALL HORIZONTAL REINFORCING SHALL TERMINATE WITH A HOOK AROUND VERTICAL REINFORCING.
- IN ADDITION LADDER-TYPE REINFORCING CONSISTING OF #9 WIRE FOR EACH FACE SHELL OF EACH WYTHE SHALL BE USED AT 16" OC HORIZONTALLY IN ALL MASONRY WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
- CONCRETE MASONRY UNITS SHALL BE GRADE N UNITS CONFORMING TO ASTM DESIGNATION C90 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION.
- MORTAR SHALL BE TYPE "S" AND SHALL HAVE THE FOLLOWING PROPORTIONS BY VOLUMES:
 - PORTLAND CEMENT..... 1 PART
 - HYDRATED LIME..... 1/4 - 1/2 PART
 - DAMP LOOSE AGGREGATE.. NOT LESS THAN 2-1/4 AND NOT MORE THAN (3) TIMES THE SUM OF CEMENT AND LIME USED.
- STOP GROUT POURS 1/2" BELOW TOP OF BLOCK UNITS.
- ALL ANCHOR BOLTS MUST BE PLACED IN GROUTED CELLS.
- NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEGREES FARENHEIT, UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.
- ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS. PROVIDE WIRE TIES AT ALL LAP SPLICES.
- ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT: MAJOR CHANGES IN WALL HEIGHT, AT CHANGES IN WALL THICKNESS, AT BUILDING CONSTRUCTION JOINTS, AND NOT FARTHER APART THAN 40 FEET ELSEWHERE. PROVIDE MATCHING CONTROL JOINTS FOR BRICK VENEER. CONSULT ARCHITECTURAL DRAWINGS FOR LOCATIONS. VERTICAL CELLS EACH SIDE OF CONTROL JOINTS SHALL BE GROUTED AND REINFORCED WITH REBARS TO MATCH VERTICAL REINFORCEMENT USED THROUGHOUT THAT WALL. ONLY HORIZONTAL REBARS IN BOND BEAMS AT FLOORS AND AT ROOF LEVEL SHALL CONTINUE THROUGH CONTROL JOINTS. PROVIDE FULL HEIGHT HARD RUBBER KEY AT JOINT, WHERE JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO ARCHITECT/ENGINEER FOR REVIEW.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2009 EDITION.
- ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
- STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
- STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A53, GRADE B; YIELD STRESS = 35 KSI.
- USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
- PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.

STRUCTURAL STEEL, CONT

- ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
- ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM TENSION IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A DIRECT TENSION INDICATOR. THE TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENT.
- ALL STEEL JOISTS, JOIST GIRDEERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE", UNLESS SHOWN OTHERWISE. PROVIDE BRACING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND THEY SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.
- ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.
- WHERE JOISTS CANNOT BEAR 2-1/2" ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" MINIMUM BEARING ON BEAM.
- CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE ((L1-1/2)/1-1/2)/1-1/2) IS INSTALLED BETWEEN THE LOAD AND PANEL POINT. CONCENTRATED LOADS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW.
- A CERTIFICATE OF COMPLIANCE FOR THE STEEL ROOF JOISTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL UPON COMPLETION OF FABRICATIONS PER IBC 2206.5.
- OPEN WEB ROOF JOISTS AND GIRDEERS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 10 PSF, UNLESS NOTED OTHERWISE.
- OPEN WEB ROOF JOISTS AND GIRDEERS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS:
 - LIVE OR SNOW LOAD SPAN/360
 - TOTAL LOAD SPAN/240
- PROVIDE CAMBER IN OPEN WEB JOIST AND GIRDER PER STEEL JOIST INSTITUTE RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
- JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD WITH UNBRACED LENGTH EQUAL TO SKYLIGHT OPENING.
- WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FOOT, PROVIDE SLOPED BEARING SEAT.
- THE STEEL JOIST AND GIRDER MANUFACTURER SHALL SUBMIT ERECTION DRAWINGS AND STAMPED CALCULATIONS BY A LICENSED CIVIL OR STRUCTURAL ENGINEER TO THE ENGINEER OF RECORD FOR REVIEW.
- JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL 500 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
- GIRDEERS SHALL BE DESIGNED FOR AN ADDITIONAL 1000 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
- JOIST MANUFACTURER TO DESIGN FOR THE MECHANICAL UNITS SHOWN WITH WEIGHTS GREATER THAN 500 LBS.
- SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY IBC 2009 SHALL BE PROVIDED BY THE OWNER.
- MECHANICAL ROOF TOP UNITS SHALL BE PLACED OVER ADDITIONAL OR SPECIAL JOISTS AS SHOWN ON DRAWINGS. THE WEIGHT, SIZE AND LOCATION OF ALL PROPOSED UNITS AND CURBS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION BEFORE FABRICATION OF STEEL.
- FRAMES FOR ROOF OPENINGS AND SUPPORTS FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE INDICATED ON DRAWINGS FOR BID PURPOSES ONLY. UPON RECEIPT OF MECHANICAL SUBMITTALS, THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER SUPPLEMENTARY DRAWINGS AND INFORMATION NECESSARY TO LAYOUT AND DETAIL THIS PORTION OF THE WORK. OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
- STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SD1. SUBMIT ICC-ES REPORT WITH SHOP DRAWINGS.
- WHERE POSSIBLE, ALL DECK SHALL BE (3) SPAN CONTINUOUS MINIMUM. IN AREAS WHERE (3) SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAGE DECK AND/OR SHORING AS REQUIRED.
- DECK SHALL HAVE A MINIMUM BEARING LENGTH OF 2'.

LIGHT GAGE METAL FRAMING

- DESIGN, FABRICATION AND ERECTION OF LIGHT-GAGE METAL FRAMING SHALL COMPLY WITH REQUIREMENTS OF: AISC "MANUAL OF STEEL CONSTRUCTION", AWS "STRUCTURAL WELDING CODE", AISI "SPECIFICATION FOR COLD FORMED STEEL STRUCTURAL MEMBERS", AND ICC-ES REPORT ER-4943P.
- FRAMING SHOWN ON PLANS ARE MINIMUM SIZES AND CONDITIONS. SUBSTITUTION OF FRAMING MEMBERS SHALL BE APPROVED BY ARCHITECT AND ENGINEERS. THEY SHALL HAVE CAPACITY FOR GRAVITY LOADS AND LATERAL LOADS EQUAL TO OR BETTER THAN SPECIFIED FRAMING MEMBERS AND SHALL BE ICC-ES APPROVED.
- ALL COMPONENTS SHALL BE GALVANIZED ACCORDING TO REQUIREMENTS OF ASTM A-653 FOR MINIMUM G-90 COATING.
- ALL 16 AND 18 GAGE STUDS, AND ALL TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A-653, WITH A MINIMUM YIELD OF 33 KSI FOR 18 GAGE AND 50 KSI FOR 16 GAGE. FOR STUDS AND 33 KSI FOR RUNNERS, BRIDGING, END CLOSURES AND ACCESSORIES.
- ALL WELDS SHALL BE ACCOMPLISHED USING 1/8" AWS TYPE 6013 OR 7014 ROD WITH A WELDING HEAT OF 60 TO 110 AMPERES DEPENDING ON THE GAGE OF MATERIAL AND THE FIT OF THE PARTS. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
- ADEQUATE LATERAL BRACING MUST BE PROVIDED DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, METAL FRAMING MEMBERS AT LOAD BEARING, SHEAR WALLS AND EXTERIOR WALLS SHALL BE 18 GAGE FOR STUDS, 16 GAGE FOR TOP AND BOTTOM RUNNER.
- RUNNER TRACKS: INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. UNLESS INDICATED OTHERWISE, SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" OC SPACING FOR WALL OR FLOOR DOWN OVER FASTENERS, OR 16" OC FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACK.
- FASTENINGS: FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. FASTENING OF PL WOOD DIAPHRAGMS AND SLIP PLATES SHALL BE AS INDICATED IN STRUCTURAL NOTES, AND DETAILED.

DRILL & EPOXY

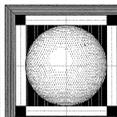
- USE HILTI HIT RE 500 ADHESIVE SYSTEM OR EQUIVALENT FOR CONNECTIONS INTO EXISTING CONCRETE & HILTI HIT HY 150 OR EQUIVALENT FOR CONNECTIONS WITH SOLID GROUTED MASONRY WALLS, INCLUDING MULTI-WYTHE WALLS.
- USE HILTI HY20 ADHESIVE SYSTEM OR EQUIVALENT FOR ALL HOLLOW LULI DMI CONNECTIONS AND UNREINFORCED MASONRY WALLS, INCLUDING MULTI-WYTHE WALLS.
- TEN PERCENT OF ALL ANCHORS PLACED SHALL BE RANDOMLY TESTED TO 100% OF MANUFACTURER'S SPECIFIED ALLOWABLE LOAD. IF ANY ANCHOR FAILS IT SHALL BE REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER. IF AN ANCHOR FAILS, 100% OF ALL OTHER ANCHORS INSTALLED BY THAT SAME CREW SHALL BE TESTED AT NO ADDITIONAL COST TO THE OWNER.

TERMS AND ABBREVIATIONS (SYMBOLS, A - K)

ABBREV	TERM	ABBREV	TERM
(#)	NUMERICAL QUANTITIES	(E)	EXISTING
	WHEN ENCLOSED IN PARENTHESES	E	MODULUS OF ELASTICITY
		EA	EACH
A/E	ARCHITECT/ENGINEER	EJ	EXPANSION JOINT
AB	ANCHOR BOLT	EL	ELEVATION
ADDM	ADDENDUM	ELEV	ELEVATOR
ALUM	ALUMINUM	ENGR	ENGINEER
APPROX	APPROXIMATELY	EQ	EQUAL
ARCH	ARCHITECT (ARCHITECTURAL)*	EQ. SP	EQUALLY SPACED (EQUAL SPACES)*
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EQUIP	EQUIPMENT
		EQUIV	EQUIVALENT
		EST	ESTIMATE
B PL	BASE PLATE	ETC	AND SO FORTH
B/B	BACK TO BACK	EXP	EACH WAY
BLW	BELOW	EXCL	EXCLUDE
BLK	BLOCKING	EW	EXPANSION
B/M	BEAM	EXT	EXTERIOR
BOS	BOTTOM OF STEEL	(F)	FUTURE
BTM	BOTTOM	FDN	FOUNDATION
BRG	BEARING	FIN	FINISHED FLOOR
BTWN	BETWEEN	ELEV	ELEVATION
		FIN	FINISH (FINISHED)*
C TO C	CENTER TO CENTER	FLR	FLOOR
CD	CONTRACT DOCUMENTS	FRMG	FRAMING
CIP	CAST-IN-PLACE	FS	FINISHED SLAB ELEVATION
CJ	CONSTRUCTION JOINT*	FTG	FOOTING
CJ	CONTROL JOINT*	FV	FIELD VERIFY
CL	CENTERLINE		
CMU	CONCRETE MASONRY UNIT	GA	GAGE
COL	COLUMN	GALV	GALVANIZED
CONC	CONCRETE	GLB	GLUED LAMINATED WOOD BEAM
CONN	CONNECTION		
CONT	CONTINUOUS (CONTINUE)*		
CONTR	CONTRACTOR	HGR	HANGER
COORD	COORDINATE	HORIZ	HORIZONTAL (HORIZONTALLY)*
CTR	CENTER	HSA	HEADED STUD ANCHOR
D	DEPTH	HSS	HOLLOW STRUCTURAL SECTION
D	PENNY NAIL		
DB	DECK BEARING		
DBA	DEFORMED BAR ANCHOR	I	MOMENT OF INERTIA
DBL	DOUBLE	ID	INSIDE DIAMETER
DFS	DOUGLAS FIR - SOUTH	INT	INTERIOR
DIA	DIAMETER		
DIA	DIAGONAL	JST	JOIST
DM	DIMENSION	KIP	(K) THOUSAND POUNDS
DL	DEAD LOAD	KIP FT	THOUSAND FOOT/POUNDS
DTL	DETAIL	KLF	KIPS PER LINEAL FOOT
DWG	DRAWING		

TERMS AND ABBREVIATIONS (L - Z)

ABBREV	TERM	ABBREV	TERM
LBS	POUND	SCHED	SCHEDULE
LH	LEFT HAND SIDE	SECT	SECTION
LL	LIVE LOAD	SF	SQUARE FOOT (FEET)*
LHV	LONG LEG HORIZONTAL	SGL	SINGLE
LV	LONG LEG VERTICAL	SKTH	SKEATING
LONG	LONGITUDINAL	SIM	SIMILAR
LSL	LAMINATED STRAND LUMBER	SL	SNOW LOAD
LUM	LUMBER	SOG	SLAB ON GRADE
LWT	LIGHTWEIGHT	SPCL	SPECIAL
LVL	LAMINATED VENEER LUMBER	SPEC	SPECIFICATION
		SQ	SQUARE
		STD	STANDARD
		STIF	STIFFENER
MAX	MAXIMUM	STRUCT	STRUCTURE (STRUCTURAL)*
MECH	MECHANICAL	MFR	MANUFACTURER
MIN	MINIMUM	SYMM	SYMMETRICAL
MISC	MISCELLANEOUS		
		T&B	TOP AND BOTTOM
NA	NOT APPLICABLE	T&G	TONGUE AND GROOVE THROUGH
NTS	NOT TO SCALE	TO FDN	TOP OF FOUNDATION
		TOB	TOP OF BEAM
OC	ON CENTER	TOC	TOP OF CONCRETE
OD	OUTSIDE DIAMETER	TOF	TOP OF FOOTING
OPNG	OPENING	TOJ	TOP OF JOIST
OPP	OPPOSITE	TOM	TOP OF MASONRY
OPT	OPTIONAL	TOP	TOP OF PARAPET
OSB	ORIENTED STRAND BOARD	TOS	TOP OF STEEL
PERP	PERPENDICULAR	TOW	



NEW BOUNTIFUL LIQUOR STORE
 DEPT. OF ALCOHOLIC BEVERAGE CONTROL
 BOUNTIFUL, UT

FOOTING & FOUNDATION PLAN

FRANK N MURDOCK JR. Architect & Associates
 975 East 100 South, Suite 100, Salt Lake City, Utah 84102
 TEL: (801) 532-4441 FAX: (801) 532-4220



REVISION # DATE:

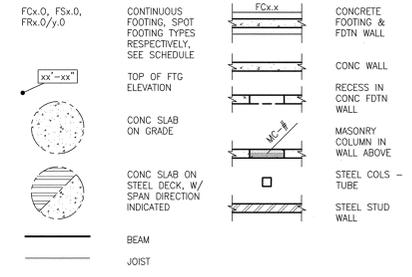
DFWM PROJECT NO.: **07270030**
 CONSTRUCTION DOCS
 FILE NAME: S101.dwg
 PLOT SCALE: AS NOTED
 DRAWN BY: JRS
 CHECKED BY: SP
 DATE: SEPT 9, 2010

S101

PLAN NOTES (FTG & FDTN):

- CIRCLED NOTES ARE KEYPED ON PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.
- SEE STRUCTURAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.
- TOP OF SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: ∇ FFE= xxx'-xx"
- SEE DETAIL A1/S201 FOR TYPICAL STEP IN SLAB. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF STEPS.
- SLAB ON GRADE SHALL BE 5" CONCRETE OVER 4" FREE-DRAINING GRAVEL. REINFORCE SLAB WITH 6x6-W1.4W1.4 WWF (USE FLAT SHEETS).
- PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER STRUCTURAL NOTES. SEE DETAIL B2/S201.
- SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE THIS SHEET FOR FOOTING SIZE AND REINFORCEMENT.
- CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
- SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
- SEE DETAIL D5/S201 FOR MASONRY COLUMN SCHEDULE INDICATING SIZE AND REINFORCEMENT.
- SEE DETAIL B1/S201 FOR CONTROL/EXPANSION JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- SEE DETAILS B3/S201 & C2/S201 FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
- SEE DETAIL B4/S201 FOR TYPICAL STEP IN FOOTING.
- FOUNDATION DESIGN INFORMATION WAS OBTAINED FROM THE SOILS REPORT PREPARED BY GSH GEOTECHNICAL CONSULTANTS, INC. ALL SITE PREPARATION, EXCAVATION, FILL, COMPACTION, AND PLACEMENT WORK PERFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT.
- SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
- SEE DETAILS B2, E3, E4, E5, & E6 ON SHEET S201 FOR SMALL OVERBUILD OFFICE MEZZANINE FRAMING.
- FLOOR SLAB SHALL BE A TOTAL OF 4" THICK (WITH STEEL DECK), LIGHT WEIGHT CONCRETE (110 PCF). REINFORCE SLAB WITH 6x6-W1.4W1.4 WWF IN ADDITION TO ANY MILD REINFORCEMENT SHOWN ON PLANS.
- FLOOR DECK SHALL BE 1/2" VERCO TYPE "B-FORMLOK", 22 GAUGE GALVANIZED. MINIMUM DECK BEARING = 2". ANCHOR DECK TO SUPPORTING MEMBERS WITH #10 SELF DRILLING SCREWS @ 12" OC ALL DECK FLUTES. BUTT JUNCTION ALL DECK LAPS @ 36" OC.
- SEE DETAILS C5/S201 & B5/S201 FOR REINFORCEMENT LAP SPlice SCHEDULE.

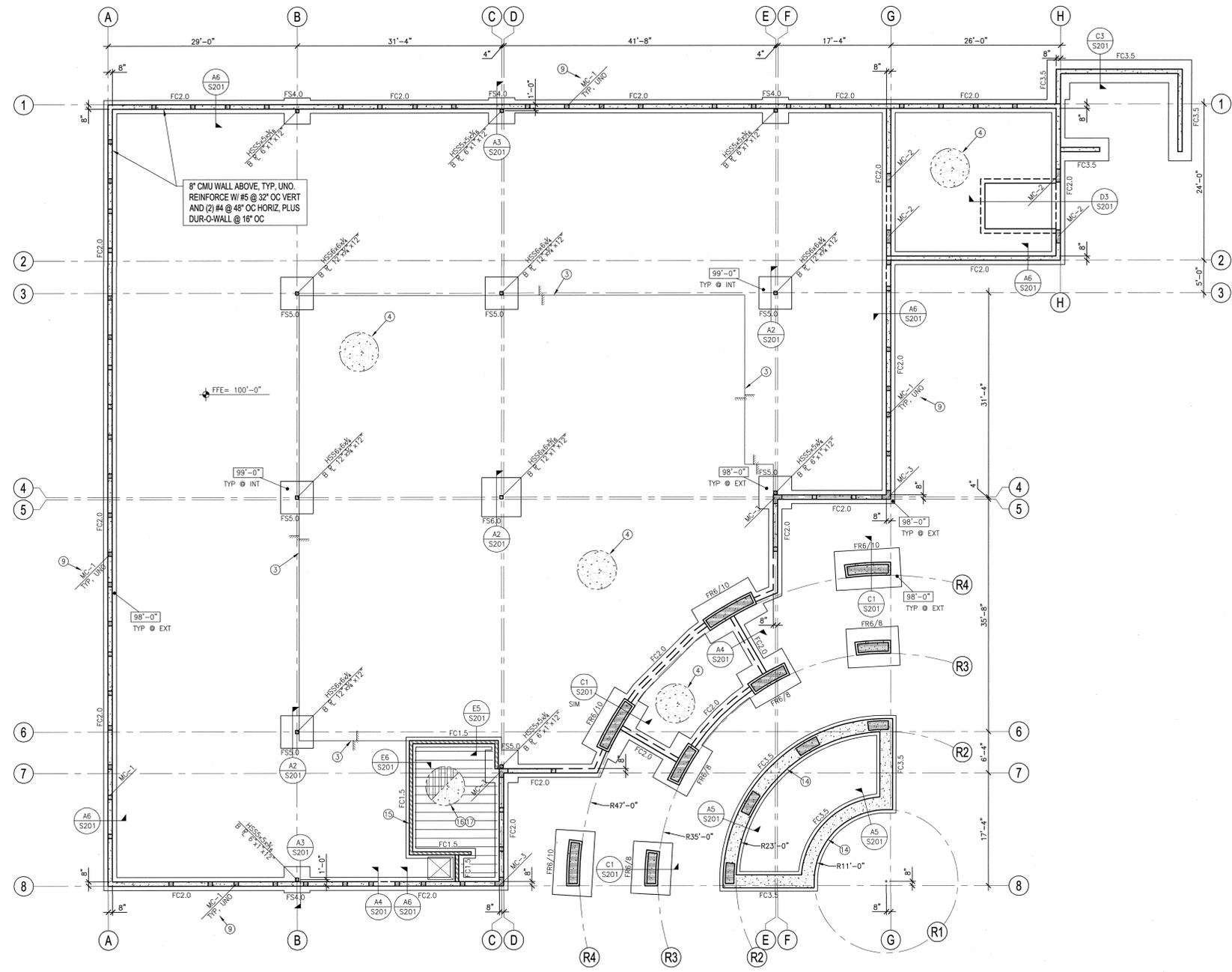
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FOOTING SCHEDULE				
MARK	SIZE	REINFORCEMENT		NOTES
		LONGITUDINAL	TRANSVERSE	
FC1.5	1'-6" x 1'-0" x CONT	(2) #4	-	
FC2.0	2'-0" x 1'-0" x CONT	(3) #4	-	
FC3.5	3'-6" x 1'-0" x CONT	(4) #5	#5 @ 14"	
FS4.0	4'-0" x 1'-0" x 4'-0"	(4) #5	(4) #5	
FS5.0	5'-0" x 1'-2" x 5'-0"	(5) #5	(5) #5	
FS6.0	6'-0" x 1'-2" x 6'-0"	(7) #5	(7) #5	
FR6/8	6'-0" x 1'-2" x 8'-0"	(6) #5	(11) #5	
FR6/10	6'-0" x 1'-2" x 10'-0"	(6) #5	(13) #5	

- FOOTING NOTES:**
- PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
 - ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS4.0, MINIMUM, UNO ON PLANS.

FOOTING SCHEDULE		
B6	3110.0 R-SCHTGS FOOTING SCHEDULE	SCALE: NONE

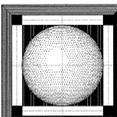


FOOTING & FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"



ALL DRAWINGS, PLANS AND DETAILS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF CALDER RICHARDS CONSULTING ENGINEERS AND ARE NOT SUITABLE FOR REUSE NOR INTENDED FOR ANY OTHER PROJECT.

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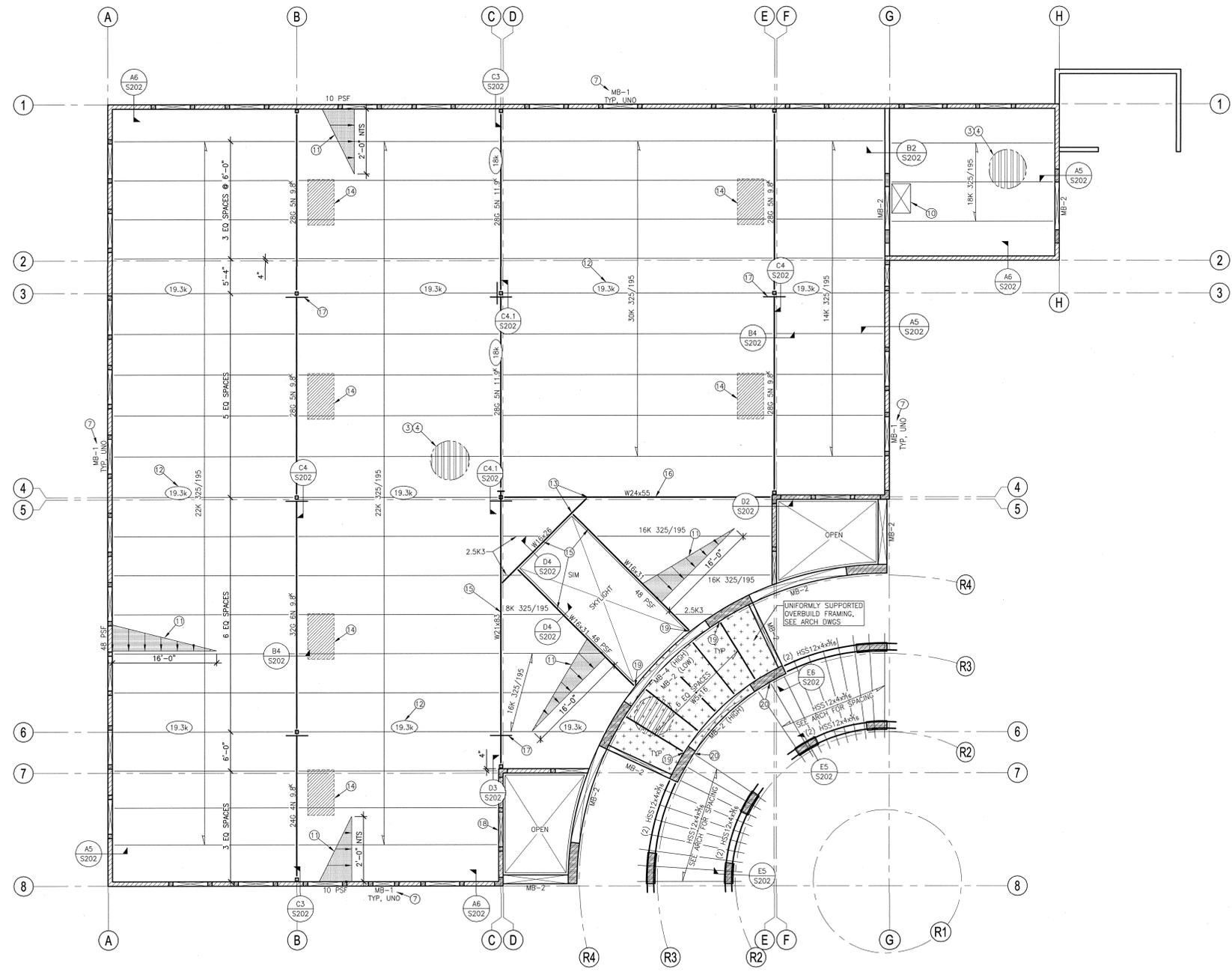
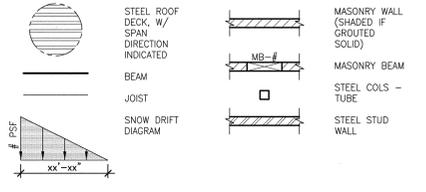
DFCM PROJECT NO.:
07270030
CONSTRUCTION DOCS
FILE NAME: S102.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: SEPT 9, 2010

S102

PLAN NOTES (ROOF FRAMING):

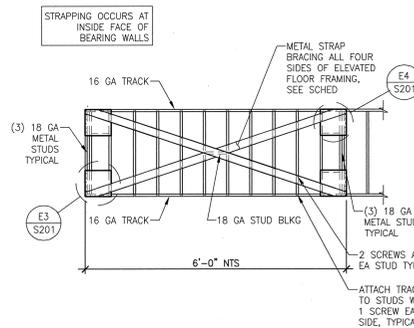
- 1. SEE STRUCTURAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.
- 2. SEE ARCHITECTURAL DRAWINGS FOR ALL DECK BEARING ELEVATIONS, ADJUST TOP OF FRAMING TO PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS.
- 3. ROOF DECK SHALL BE 1/2" VERCO TYPE HSB-36, 20 GAUGE, GALVANIZED, OR EQUIVALENT. PLACE DECK 3 SPANS CONTINUOUS, MINIMUM.
- 4. DECK ATTACHMENT AS FOLLOWS:
A. DECK SPAN PERPENDICULAR TO SUPPORTS:
(7) 3/8" PUDDLE WELDS
B. DECK SPAN PARALLEL TO SUPPORTS:
(7) 3/8" PUDDLE WELDS @ 6" OC
C. SEAMS:
1/2" TOP SEAM WELDS OR VERCO PUNCH LOCK @ 18" OC
- 5. ALL CONTINUOUS DECK ANGLES TO BE FULL DEVELOPMENT BUT WELDED AT SPLICES.
- 6. SEE A2/S202 FOR TYPICAL ROOF OPENING DETAIL.
- 7. SEE DETAIL B5/S202 FOR MASONRY BEAM SCHEDULE INDICATING SIZE & REINFORCEMENT. (PROVIDE MB-1 LINTEL AT ALL SMALL OPENINGS UNO ON PLAN)
- 8. SEE DETAIL B1/S201 FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- 9. SEE DETAIL B3/S202 FOR DECK SUPPORT AT ROOF PIPE/DRAINS.
- 10. ROOF HATCH, SEE ARCHITECTURAL DRAWINGS.
- 11. DENOTES SNOW DRIFT LOADING ALONG WALL LINE. JOIST MFR TO DESIGN JOISTS FOR SNOW DRIFT LOAD IN ADDITION TO UNIFORM LOADS.
- 12. JOIST MANUFACTURER SHALL DESIGN TOP CHORD OF JOIST OR JOIST GIRDER FOR AXIAL SEISMIC LOADS IN ADDITION TO UNIFORM LOADS. SERVICE LEVEL TENSION & COMPRESSION AXIAL LOADS ARE SHOWN THUS: (X X)
- 13. SEE DETAIL D6/S202 FOR TYPICAL BEAM TO BEAM OR CHANNEL TO BEAM CONNECTION.
- 14. JOIST MFR TO DESIGN JOISTS AND ORDERS FOR MECH UNIT LOAD IN ADDITION TO TYPICAL UNIFORM LOADS. SEE MECH DRAWINGS FOR ALL MECH UNIT LOCATIONS, SIZES, AND WEIGHTS. SEE DETAIL A2/S202 FOR PERIMETER SUPPORT AT ROOF FRAMING.
- 15. TOP OF BEAM AT JOIST BRG.
- 16. TOP OF BEAM AT DECK BRG.
- 17. DENOTES LATERAL TIE, SEE DTL C4/S202 FOR TIE BARS BTWN JOISTS.
- 18. PROVIDE EMBED 'S BTWN JOISTS PER DTL A6.1/S202
- 19. SEE DTL B1/S202 FOR STEEL BEAM BRG POCKET IN WALL.
- 20. SEE DTL E4/S202 FOR TRELIS BEAM CONN TO WALL.

LEGEND:

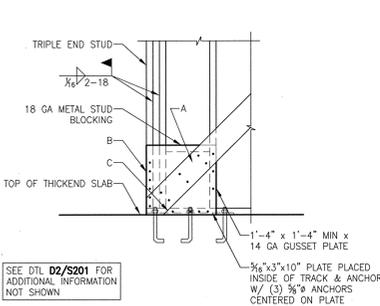


ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

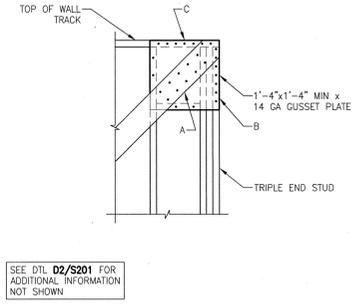
E1 SCALE: 3/4" = 1'-0"



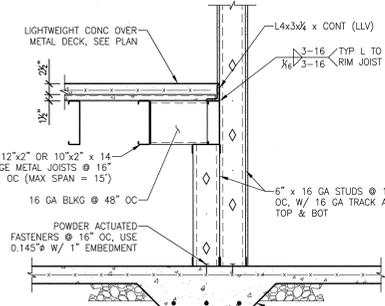
E3 SCALE: 3/4" = 1'-0"



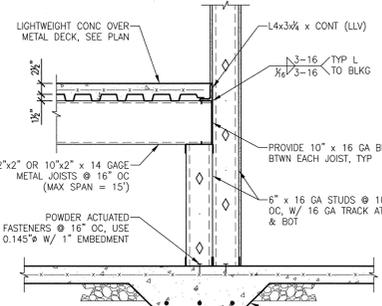
E4 SCALE: 3/4" = 1'-0"



E5 SCALE: 3/4" = 1'-0"

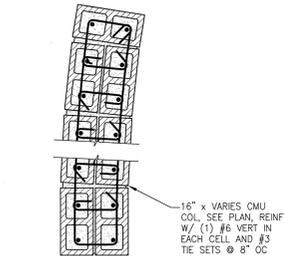


E6 SCALE: 3/4" = 1'-0"



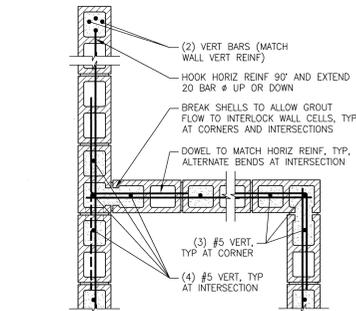
STRAP	FASTENERS (SEE DETAILS)		
	(A) STRAP TO GUSSET	(B) GUSSET TO EA END STUD	(C) GUSSET TO CONT TRACK
2' x 16 GA	6	6	6

NOTE:
1/2" FILLET WELDS MAY BE SUBSTITUTED FOR SCREWS. PROVIDE 1 3/8" FILLET WELD FOR EACH SCREW.

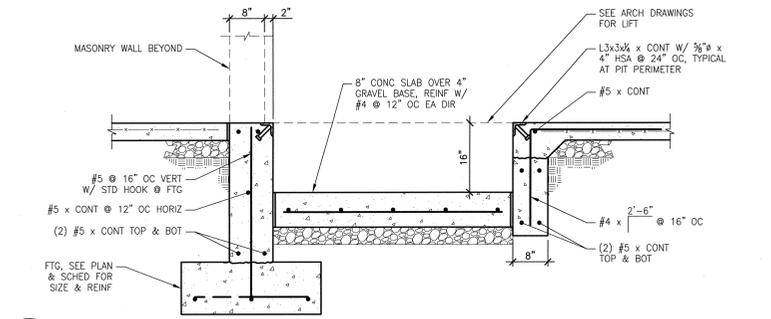


MASONRY COLUMNS AT SECTION A-A COORD WITH PLAN FOR LOCATIONS

D2 SCALE: 3/4" = 1'-0"



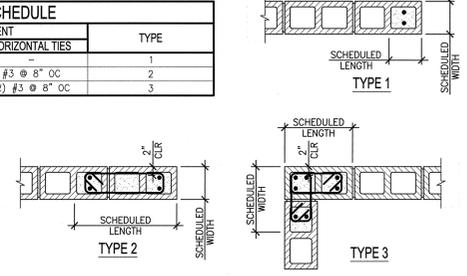
D3 SCALE: 3/4" = 1'-0"



MARK	LENGTH	WIDTH	REINFORCEMENT		TYPE
			VERTICAL	HORIZONTAL TIES	
MC-1	8"	WALL	(2) #5		1
MC-2	24"	WALL	(4) #5	#3 @ 8" OC	2
MC-3	16"	16"	(7) #5	(2) #3 @ 8" OC	3

MASONRY COLUMN NOTES:

- HORIZONTAL WALL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH MASONRY COLUMNS.
- GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
- MASONRY COLUMNS REINFORCING SHALL EXTEND FULL HEIGHT FROM ROOF DOWN TO FOUNDATION. DOWEL VERT REIN INTO FOUNDATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR SPECIAL COURSING ARRANGEMENTS.



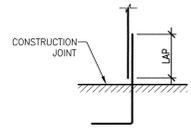
MASONRY COLUMN SCHEDULE SCALE: NONE

D5 5310.00 SCALE: NONE

BAR SIZE	MASONRY REINFORCING LAP SPLICE SCHEDULE										
	#3	#4	#5	#6	#7	#8	#9	#10	#11	MECH	MECH
MASONRY SINGLE MAT	1'-7"	2'-1"	2'-7"	4'-4"	5'-1"	6'-2"	7'-10"	8'-0"	9'-0"	10'-0"	11'-0"
MASONRY DOUBLE MAT	1'-7"	2'-4"	3'-6"	6'-10"	9'-1"	12'-5"	15'-4"	18'-0"	21'-0"	24'-0"	27'-0"

MASONRY REBAR SPLICE NOTES:

- MECH = MECHANICAL SPLICE REQUIRED.
- USE #6 BAR IN 10" OR LARGER WALLS ONLY.
- f'm = 1500 PSI, f_y = 60,000 PSI
- DOUBLE MAT REINFORCEMENT SHALL HAVE 2" CLEARANCE BETWEEN FACE OF WALL AND EDGE OF VERTICAL BAR.



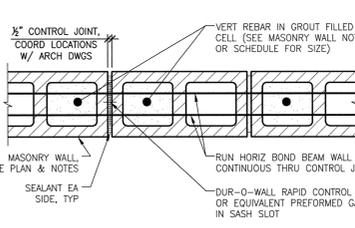
REBAR DEVELOPMENT DETAIL

C5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE

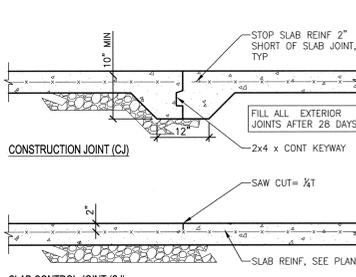
BAR SIZE	CONCRETE REINFORCING LAP SPLICE SCHEDULE																							
	f_c=3000psi						f_c=4000psi						f_c=5000psi						f_c=6000psi					
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS					
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	16"	21"	12"	16"	16"	21"				
#4	22"	29"	29"	38"	18"	25"	25"	33"	17"	22"	22"	30"	16"	20"	20"	27"	16"	20"	20"	27"				
#5	28"	36"	37"	48"	24"	31"	32"	42"	21"	28"	28"	37"	20"	25"	25"	34"	20"	25"	25"	34"				
#6	33"	43"	45"	58"	29"	37"	39"	50"	26"	33"	35"	45"	24"	30"	32"	41"	24"	30"	32"	41"				
#7	48"	63"	63"	82"	42"	55"	55"	71"	37"	48"	48"	62"	34"	45"	45"	58"	34"	45"	45"	58"				
#8	55"	72"	72"	93"	48"	63"	63"	81"	42"	55"	55"	71"	39"	51"	51"	66"	39"	51"	51"	66"				
#9	62"	81"	81"	105"	54"	71"	71"	92"	48"	62"	62"	80"	44"	57"	57"	74"	44"	57"	57"	74"				
#10	70"	91"	91"	118"	61"	79"	79"	103"	54"	70"	70"	90"	50"	65"	65"	84"	50"	65"	65"	84"				
#11	78"	101"	101"	131"	68"	88"	88"	114"	60"	77"	77"	100"	55"	72"	72"	93"	55"	72"	72"	93"				

- NOTES:
- THE SCHEDULE SHOWN APPLIES TO REG WT CONCRETE WITH 60ksi GRADE REINFORCING BARS.
 - TOP BARS ARE HORIZONTAL BARS WITH 12" (OR MORE) OF FRESH CONCRETE CAST BELOW THE BARS.
 - CLASS "A" SPLICES SHALL BE USED WHEN 50% (OR LESS) OF BARS SPLICED WITHIN LAP.
 - CLASS "B" SPLICES SHALL BE USED FOR ALL ELSE, TYPICALLY WITH SHEARWALLS, COLUMNS, BEAMS & SLABS.
 - FOR EPOXY COATED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
TOP BARS: L_d x 1.7
REGULAR BARS: L_d x 1.5
 - FOR BUNDLED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
BUNDLED BARS, THREE OR LESS: L_d x 1.2
BUNDLED BARS, FOUR OR MORE: L_d x 1.33
INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
 - LAP SPLICES ARE NOT ALLOWED FOR TIES AND STIRRUPS.

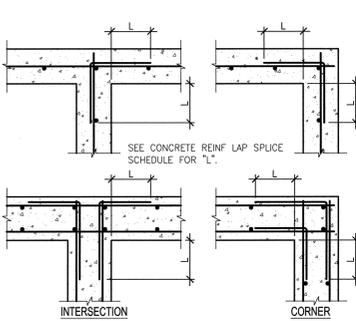
C1 3133_01 F-EXTCOL SCALE: 3/4" = 1'-0"



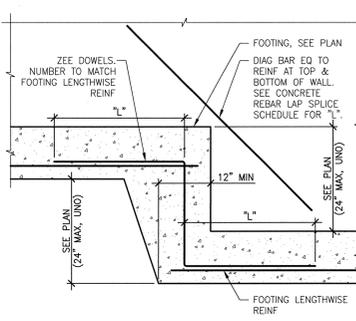
C2 5252_03 SCALE: 3/4" = 1'-0"



C3 3152_13 SCALE: 3/4" = 1'-0"

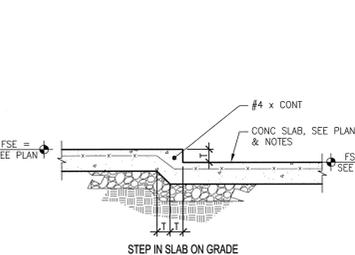


C4 3152_01 SCALE: 3/4" = 1'-0"

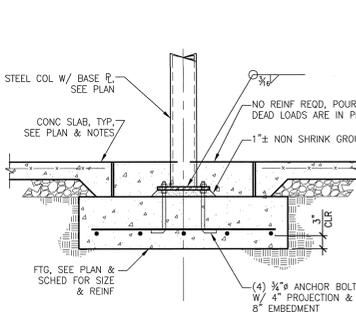


C5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE

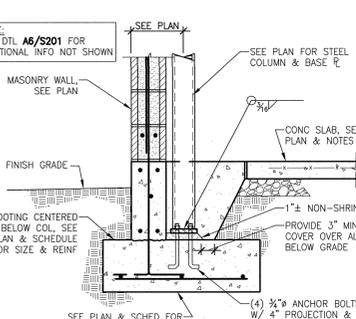
B1 5257_01 TYP MASONRY CONTROL JOINT SCALE: NONE



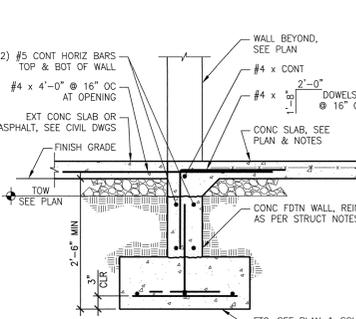
B2 3600_02 TYPICAL SLAB JOINT DETAILS SCALE: NONE



B3 3200_02 WALL INTERSECTION DOWELS SCALE: NONE



B4 3231_02 FOOTING STEP (CONC FDTN) SCALE: NONE



B5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE

A1 3677_05 C-SLBSIP SCALE: 3/4" = 1'-0"



A2 4331_01 SCALE: 3/4" = 1'-0"



A3 3143_03 SCALE: 3/4" = 1'-0"



A4 3632_02 SCALE: 3/4" = 1'-0"



A5 3747_01 Reinforcing Lap Splice Schedule SCALE: 3/4" = 1'-0"



A6 3747_01 Reinforcing Lap Splice Schedule SCALE: 3/4" = 1'-0"

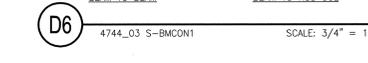
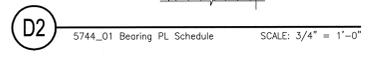
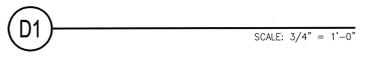
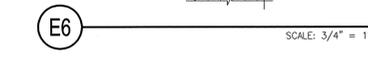
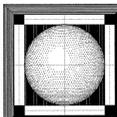


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NEW BOUNTIFUL LIQUOR STORE
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REVISION # DATE:
 DFCM PROJECT NO: 07270030
 CONSTRUCTION DOCS FILE NAME: S201.dwg
 PLOT SCALE: AS NOTED
 DRAWN BY: JRS
 CHECKED BY: SP
 DATE: SEPT 9, 2010

S201



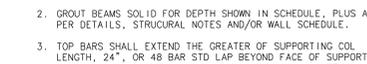
BOLT SCHEDULE

BEAM SIZE	SHEAR BOLTS	WELD SIZE
WB, W10	(2) 3/8"	1/2"
W12, W14	(3) 3/8"	1/2"
W16	(4) 3/8"	1/2"
W18	(5) 3/8"	1/2"
W24	(7) 3/8"	1/2"

BOLT SCHEDULE NOTES:

- SEE FRAMING PLANS FOR BEAM AND/OR COL SIZES
- ALL BOLTS SHALL BE A325-N, UNO.
- DECK AND JOIST NOT SHOWN. BEAM MAY OCCUR HIGHER FOR DECK BEARING COORD W/ PLAN.
- SLOPE BEAM OR CHANNEL MAY OCCUR. SEE PLAN.

NOT USED

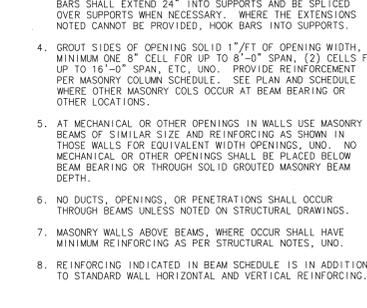
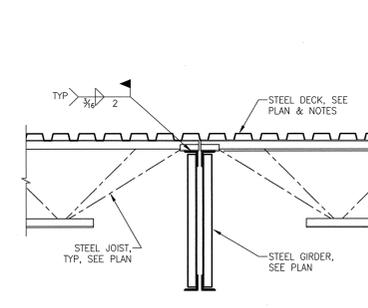
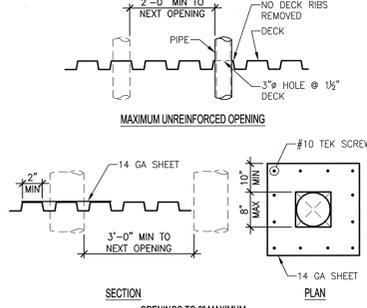
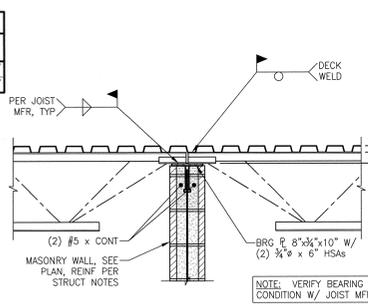
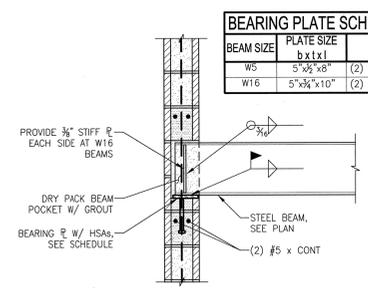
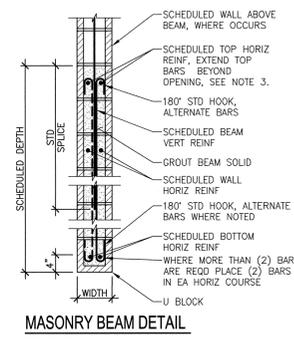


MASONRY BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT		NOTES
			BOTTOM HORIZONTAL	TOP HORIZONTAL	
MB-1	WALL	16"	(2) #5	-	MATCH WALL VERTS TYPICAL, UNO ON PLAN
MB-2	WALL	24"	(2) #5	(2) #5	#4 x 5 @ 16" REINF SHOWN TO BE PROVIDED EA WYTHE
MB-3	WALL	32"	(2) #5	(2) #5	#4 x 5 @ 16" REINF SHOWN TO BE PROVIDED EA WYTHE
MB-4	WALL	40"	(2) #5	(2) #5	#4 x 5 @ 16" REINF SHOWN TO BE PROVIDED EA WYTHE

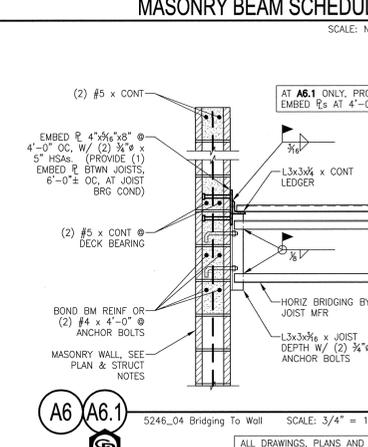
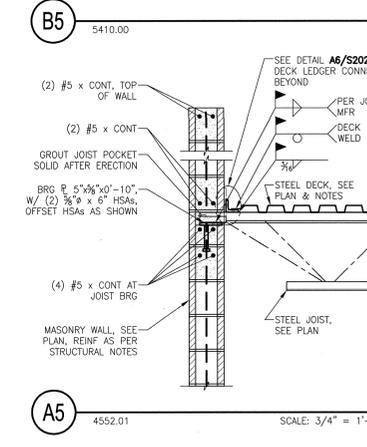
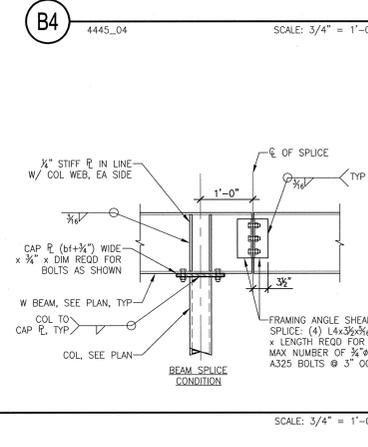
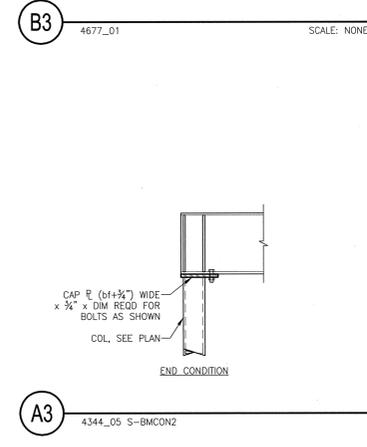
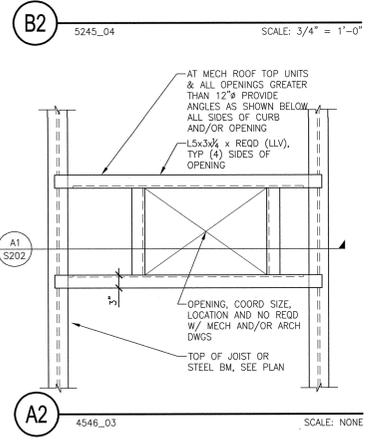
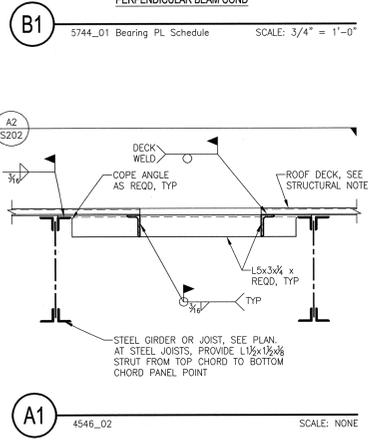
MASONRY BEAM NOTES:

- VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED, UNO. VERTICAL REINFORCEMENT ENDS WITH STD MASONRY HOOK AND LAP ABOVE BEAM. WHERE NO WALL OCCURS ABOVE BEAM OR LAP IS NOT POSSIBLE, PROVIDE 180° STD HOOK AT TOP.
- GROUT BEAMS SOLID FOR DEPTH SHOWN IN SCHEDULE, PLUS AS PER DETAILS, STRUCTURAL NOTES AND/OR WALL SCHEDULE.
- TOP BARS SHALL EXTEND THE GREATER OF SUPPORTING COL LENGTH, 24", OR 48 BAR STD LAP BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MID SPAN. BOTTOM BARS SHALL EXTEND 24" INTO SUPPORTS AND BE SPLICED OVER SUPPORTS WHEN NECESSARY. WHERE THE EXTENSIONS NOTED CANNOT BE PROVIDED, HOOK BARS INTO SUPPORTS.
- GROUT SIDES OF OPENING SOLID 1" FT OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR UP TO 8'-0" SPAN, (2) CELLS FOR UP TO 16'-0" SPAN, ETC, UNO. PROVIDE REINFORCEMENT PER MASONRY COLUMN SCHEDULE. SEE PLAN AND SCHEDULE WHERE OTHER MASONRY COLS OCCUR AT BEAM BEARING OR OTHER LOCATIONS.
- AT MECHANICAL OR OTHER OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS, UNO. NO MECHANICAL OR OTHER OPENINGS SHALL BE PLACED BELOW BEAM BEARING OR THROUGH SOLID GROUTED MASONRY BEAM DEPTH.
- NO DUCTS, OPENINGS, OR PENETRATIONS SHALL OCCUR THROUGH BEAMS UNLESS NOTED ON STRUCTURAL DRAWINGS.
- MASONRY WALLS ABOVE BEAMS, WHERE OCCUR SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, UNO.
- REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL HORIZONTAL AND VERTICAL REINFORCING.



MASONRY BEAM SCHEDULE

MARK	WIDTH	DEPTH	BOTTOM HORIZONTAL	TOP HORIZONTAL	NOTES
MB-1	WALL	16"	(2) #5	-	MATCH WALL VERTS TYPICAL, UNO ON PLAN
MB-2	WALL	24"	(2) #5	(2) #5	#4 x 5 @ 16" REINF SHOWN TO BE PROVIDED EA WYTHE
MB-3	WALL	32"	(2) #5	(2) #5	#4 x 5 @ 16" REINF SHOWN TO BE PROVIDED EA WYTHE
MB-4	WALL	40"	(2) #5	(2) #5	#4 x 5 @ 16" REINF SHOWN TO BE PROVIDED EA WYTHE



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REVISION # DATE:

DFCM PROJECT NO. **07270030**
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 DRAWN BY: JRS
 CHECKED BY: SP
 DATE: SEPT 9, 2010

S202

STRUCTURAL DETAILS

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PIPING LEGEND		MECHANICAL LEGEND	
GATE VALVE		CHILLED WATER SUPPLY	
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	
BALL VALVE		CONDENSER WATER SUPPLY	
BUTTERFLY VALVE		CONDENSER WATER RETURN	
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	
HEAT TRACING		HEATING WATER RETURN	
DEIONIZED WATER		WATER TREATMENT	
CHECK VALVE (BUING OR LIFT AS REQ'D)		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID		PIPE CAP	
REFRIGERANT SUCTION		TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
FET COOK OR GAUGE COOK		TEMPERED WATER	
PRESSURE GAUGE W/GAUGE COOK		SANITARY (PLBG) VENT	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER ABOVE GRADE	
IN-LINE PUMP		SANITARY SEWER BELOW GRADE	
FLOW SWITCH		DRAIN	
AQUASTAT		ROOF DRAIN PIPING	
HOSE BIBB OR BILLCOCK		OVERFLOW DRAIN PIPING	
VACUUM		STORM DRAIN PIPING ABOVE GRADE	
FLOOR DRAIN		STORM DRAIN PIPING BELOW GRADE	
FLOOR SINK		FIRE SERVICE	
HOT GAS BYPASS		NATURAL GAS	
WALL CLEANOUT		COMPRESSED AIR	
FLOOR OR GRADE CLEANOUT		VENT THROUGH ROOF	
GRADE CLEANOUT W/ CONCRETE PAD		STEAM	
SNOUHELT PIPING 2" O.C.		CONDENSATE	
ROOF DRAIN WITH SNOUHELT PIPING INSTALLED INSIDE PIPE		GREASE WASTE	
		SUB-SLAB DRAINAGE	
		FRENCH DRAIN OR RUBBLE DRAIN	
		RETURN OR EXHAUST DUCT DOWN	
		RETURN OR EXHAUST DUCT UP	
		SUPPLY AIR DUCT DOWN	
		SUPPLY AIR DUCT UP	
		SPIN-IN FITTING W/MYO	
		FLEXIBLE DUCT	
		CEILING SLOT DIFFUSER	
		CEILING DIFFUSER	
		CEILING EXHAUST GRILLE	
		CEILING GRILLE	
		ACCESS PANEL	
		MANUAL VOLUME DAMPER	
		MOTORIZED DAMPER	
		CEILING MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.	
		WALL MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.	
		DUCT TRANSITION WITH MIN. LENGTH INDICATED	
		FIRE DAMPER	
		COMBINATION FIRE/SMOKE DAMPER	
		SMOKE DAMPER	
		THERMOSTAT OR TEMP SENSOR	
		POINT OF CONNECTION TO EXISTING	
		DETAIL NO. DRAWING NO.	
		KEYED NOTE	
		SECTION CUT LINE	
		CONTROL TRANSFORMER	
		ROUTE DUCT THROUGH JOISTS	
		DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW	
		DIRECTION OF AIRFLOW	
		BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED	

GENERAL NOTES

1. (C) INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
2. (E) INDICATES EXISTING; (N) INDICATES NEW MATERIAL.
3. COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
4. THIS CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
5. ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2" @ LBS./CU.FT. FIBERGLASS DUCT WRAP, ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5" LBS./CU.FT. DUCT LINER, TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRETCHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
6. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
7. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS.
8. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
9. THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS 'A'. ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS 'B'.
10. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CURRENT LOCAL CODES.
11. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
12. ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER.
13. DUCT DIMENSIONS SHOW ARE INSIDE CLEAR DIMENSIONS.
14. I.C. IS TO REAL ALL KEYS NOTES ON ALL SHEETS BEFORE SUBMITTING BID.
15. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING AND MECHANICAL SYSTEMS. (NO MECHANICAL OR PLUMBING SYSTEMS SHALL BE SUPPORTED DIRECTLY FROM ROOF DECK.)

DESCRIPTION	CONNECTION SIZE				SPECIFICATIONS
	COLD WATER	HOT WATER	WASTE	VENT	
WC-1 WATER CLOSET (HANDICAP)	1 1/2"	NA	4"	3"	K-4302, SEAT: 1655/C, FLUSH VALVE: ZURN ZR-6000XL-UB (INSTALL FLUSH HANDLE TO BE ON OPEN SIDE)
L-1 LAVATORY	1/2"	1/2"	1 1/2"	1 1/4"	KOHLER: GREENGLASS WALL MOUNT K-2031-N W/ ACCESSORY MODEL #102G FOR HANDICAP INSTALLATION & K-8998 TRAP FAUCET: SYMONS ULTRA SENSE S-6000-G W/ GRID DRAIN POWER HYDROGUARD SERIES 480 TEMPERING VALVE.
HB-1 HOSE BIBB	3/4"	N/A	N/A	N/A	WOODFORD: MODEL 74P-1/4
FD-1 FLOOR DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 2205 W/ A25NB NICKEL-BRONZE STRAINER AND TRAP PRIMER
FS-1 FLOOR SINK	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 3140-12-Y W/ NICKEL-BRONZE TOP/ 1/2" GRATE AND TRAP PRIMER
SC-1 SILLCOCK	3/4"	N/A	N/A	N/A	J. R. SMITH 5509QT (W/ INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX)
WCO-1 WALL CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4530
FCO-1 FLOOR CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4023
RD-1 ROOF DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 1010Y - C - R - CI DOYE PROVIDE CAST IRON DOYE.
OD-1 OVERFLOW DRAIN	N/A	N/A <td SEE PLANS	N/A	J. R. SMITH 1080Y - C - R - CI DOYE PROVIDE CAST IRON DOYE.	
DSN-1 DOWNSPOUT NOZZLE	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 1770
WAH WATER HAMMER ARRESTORS	AS REQUIRED	AS REQUIRED	N/A	N/A	J. R. SMITH 5020
SS-1 SERVICE SINK	1/2"	1/2"	3"	2"	KOHLER: K-6110 W/ K-9142 STRAINER FAUCET: CHICAGO FAUCET MODEL # 891-RCF
S-1 SINK	1/2"	1/2"	2"	1 1/2"	JUST: SLX-212-A-GR WITH J35 STRAINER JUST FAUCET: ITR-500 PROVIDE ALL STOPS AND SUPPLIES
EWC-1 ELECTRIC WATER COOLER	1/2"	N/A	1 1/2"	1 1/4"	SUNROC: NUCA-8-BL (BI LEVEL FONTAIN) 7.0 gpm, 4.5 FLA, 415 WATT, 120V - 19, R-134A
IMB-1 ICE MAKER BOX	1/2"	N/A	N/A	N/A	OATEY MODEL 38608 W/ 1/4" TURN VALVE AND WATER HAMMER ARRESTOR

NOTE: ALL PLUMBING FIXTURES ARE TO HAVE 1/4" TURN STOPS INSTALLED (NO EXCEPTIONS TAKEN).

ROOF TOP UNIT SCHEDULE RTU-																				
PLAN CODE	UNIT TONNAGE	TOTAL CFM	EXTERNAL STATIC PRESSURE	DESIGN CRITERIA OUTSIDE AIR TEMP.	RETURN AIR DB	RETURN AIR WB	LEAVING AIR TEMP	EER	HEATING CAPACITY		ELECTRICAL		DIMENSIONS (in.)			OPER. WEIGHT (lbs)	MANUFACTURER & MODEL NO	REMARKS		
									INPUT (MBH)	OUTPUT (MBH)	VOLTS PHASE	MCA	MOP	Length	Width				Height	
RTU-1 THRU RTU-5	8.5	3,600	0.6	55	80	62	54.3/53.2	11.2	69.82	166.40	134.78	208 / 3	49.40	60	89	54	55	1,350	TRANE YSC107E3EHA	SEE GENERAL NOTES
RTU-6	6	2,400	0.6	55	80	62	54.3/53.2	11.2	51.35	124.80	101.09	208 / 3	37.8	60	89	54	55	1,350	TRANE YSC07E3EHA	SEE GENERAL NOTES

GENERAL NOTES:

1. VALUES ARE RATED AT SITE ELEVATION.
2. PROVIDE 10% MINIMUM OUTSIDE AIR SET POINTS.
3. PROVIDE 24" HIGH SELF LEVELING FACTORY CURB.
4. PROVIDE ALL WITH CENTRIFUGAL POWER EXHAUST AND ECONOMIZER AS REQUIRED PER THE CURRENT I.E.C.C..
5. PROVIDE FACTORY 2 lb. GAS REGULATOR AND CODE REQUIRED GAS CONNECTION AND GAS TRAIN.
6. PROVIDE COMPRESSOR CRANKCASE HEATER.
7. ALL ROOFTOP UNITS MUST MEET CURRENT ASHRAE ENERGY CODE 90.1 STANDARDS - (R-410).
8. PROVIDE FACTORY MOUNTED HACR CIRCUIT BREAKER ON 3 TON AND LARGER. PROVIDE FIELD MOUNTED FUSED DISCONNECT ON 2.5 TON AND SMALLER.
9. PROVIDE 7 DAY (AUTO CHANGE OVER) PROGRAMMABLE T-STAT WITH 100 FL. OF FLEW-IN RATED T-STAT WIRE.
10. PROVIDE FACTORY MOUNTED CONV. OUTLET TO BE FIELD WIRED.
11. PROVIDE FACTORY SMOKE DETECTOR IN RETURN OPENING OF UNIT AS REQUIRED BY CODE WITH REQUIRED INTERLOCKING WIRING.
12. PROVIDE COIL GUARDS.
13. PROVIDE TXV'S ON UNITS 10 TON & SMALLER.
14. IF UNIT DOES NOT HAVE AN ECONOMIZER, UNIT SHALL BE PROVIDED WITH LOW AMBIENT KIT.

EXHAUST FAN SCHEDULE EF-															
PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR		BONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	ACCESSORIES	
						WATTS	H.P.								
EF-1 THRU EF-3	SEE PLANS	ROOF CENTRIFUGAL	100	25"	570	NA	1/6	120 / 1	5.2	BACK DRAFT	Switch with lights	12" x 12"	65	PENN BARRY DOME D208B	PROVIDE FACTORY 14" CURB

GAS FIRED UNIT HEATER SCHEDULE UH-														
PLAN CODE	HEATING MBH OUTPUT REQD. ELEVATION	MANUFACTURER & MODEL NO.	SPECIFIED UNIT CAP.		CFM (STD.)	THROW AT 12' MOUNTING (FT.)	ELECTRICAL		SIZE				REMARKS	
			INPUT (S.L.) (MBH)	OUTPUT (S.L.) (MBH)			VOLT/ PHASE	FAN H.P.	SIZE / TYPE	LENGTH	WIDTH	HEIGHT		WEIGHT
UH-1	80	MODNE PD 100	100	80	1,460	41	120 / 1	1/2	6" @ 1"	30"	18"	29"	110 lbs.	WT-STAT, PIPE HANGER KIT AND FACTORY 2LB. GAS TRAIN.

AIR DEVICE SCHEDULE						
PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	REMARKS
2	SUPPLY	10"	See Plans	30	430	PRICE 8" @ / RCD / B12
3	SUPPLY	12"	See Plans	30	630	PRICE 8" @ / RCD / B12
4	SUPPLY	6"	See Plans	30	235	PRICE 6" @ / 12" x 12" / SCDA / 3 / B12
5	SUPPLY	8"	See Plans	30	400	PRICE 8" @ / 24" x 24" / SCDA / 3 / B12
6	SUPPLY	10"	See Plans	30	545	PRICE 10" @ / 24" x 24" / SCDA / 3 / B12
7	EXHAUST	6"	See Plans	16	180	PRICE 6" @ / 12" x 12" / PDOR / 2 / B12 PROVIDE OBD
8	RETURN	22" x 22"	See Plans	10	1340	PRICE 22" x 22" / 24" x 24" / PDOR / 3 / B12 PROVIDE W/ SOUND BOOT
9	SUPPLY	16" x 6"	Side Wall	30	415	PRICE 16" x 6" / 5200 / F / L / A / B12

PUMP SCHEDULE P-							
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR H.P. VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	COMMENTS

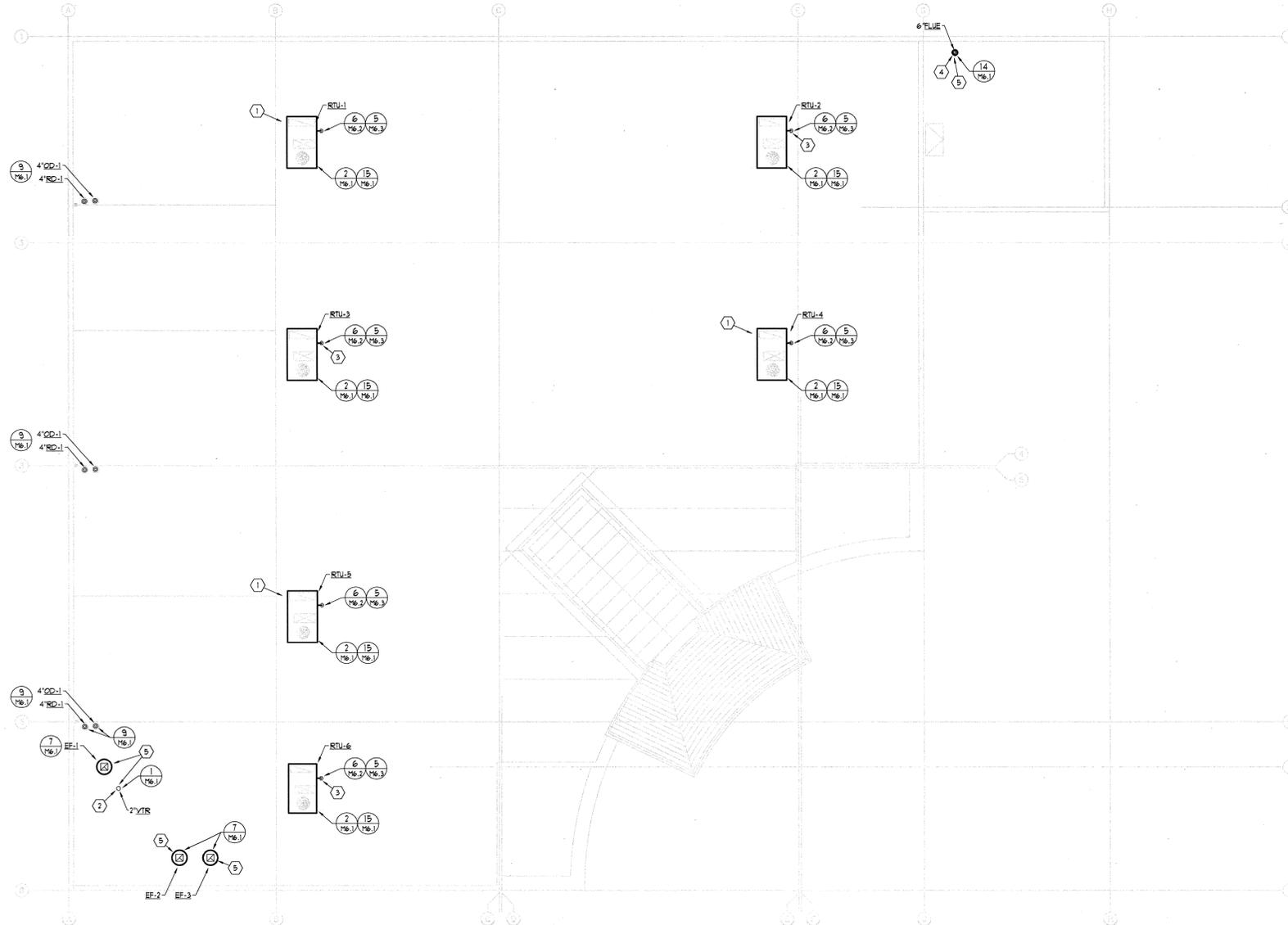
ELECTRIC WATER HEATER SCHEDULE EUH-								
PLAN CODE	INPUT (KW)	RECOVERY RATE (GAL/HR)	TEMP RISE (°F)	DIMENSIONS	ELECTRICAL		MANUFACTURER & MODEL NO.	REMARKS
					VOLT & PHASE	AMPS		
EUH-1	7500	19	80	26" x 18" x 21"	208 / 1	10.4	BRADFORD WHITE W42L655	WITH AMTRON 81-5 EXPANSION TANK



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MECHANICAL SCHEDULES
 M0.1

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KEYED NOTES:

- 1. COORDINATE WITH ARCH'S PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT. (TYPICAL).
- 2. VENT THROUGH ROOF. WATER PROOF AND SEAL ALL PENETRATIONS AS REQUIRED. (TYPICAL).
- 3. COORDINATE ALL OTHER TRADES AND DROP GAS PIPING DOWN THROUGH ROOF AND SEAL PENETRATION WATER TIGHT. PROVIDE GAS CONNECTION TO ROOF TOP UNIT AS REQUIRED TO MEET CODE. (TYPICAL).
- 4. 6" TYPE 'B' FLUE RISER UP THROUGH ROOF. SEAL WATER TIGHT.
- 5. MAINTAIN CODE REQUIRED 10' DISTANCE FROM ALL AIR INTAKE SOURCES.

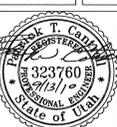
GENERAL NOTES:

- 1. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
- 2. PROVIDE CODE REQUIRED DIRT LEGS AT ALL GAS CONNECTIONS TO MECHANICAL EQUIPMENT.
- 3. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING AND MECHANICAL SYSTEMS.

M1.1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1' - 0"
6' 0" 4' 0" 12' 0" 16' 0"

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MECHANICAL ROOF PLAN



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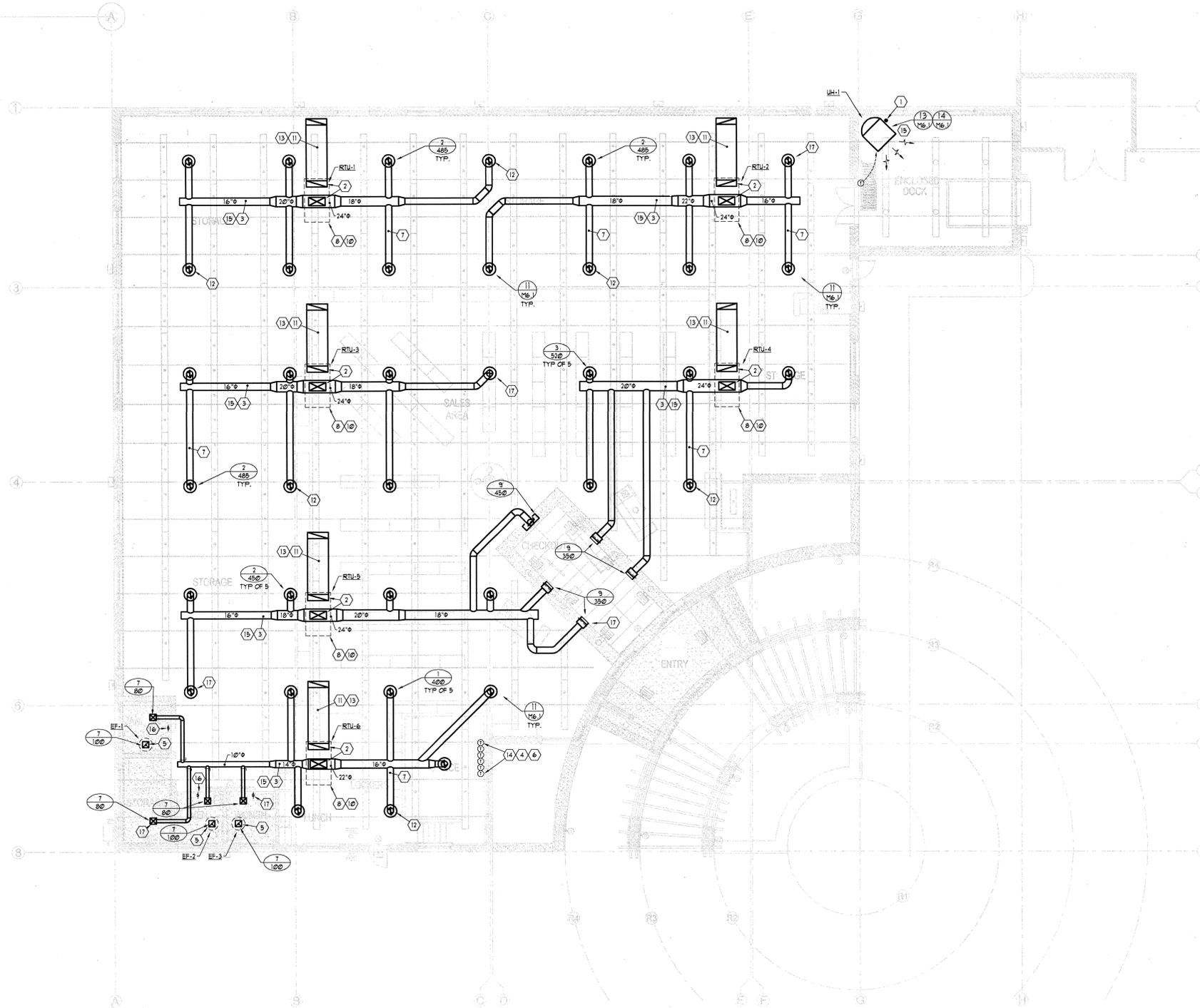
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MECHANICAL FLOOR PLAN
M2.1
SCALE: 1/8" = 1' - 0"
0' 4' 8' 12' 16'

KEYED NOTES:

- 1 6" TYPE 'B' FLUE UP THROUGH ROOF SEE DETAIL 616.2
- 2 PROVIDE AND INSTALL DUCTWORK DROPS DOWN FROM UNIT SIZED FULL SIZE OF UNITS OPENINGS. COORDINATE UNIT LOCATIONS ON ROOF SO THAT DUCT DROPS ARE BETWEEN STRUCTURE. (TYPICAL).
- 3 COORDINATE WITH ROOF STRUCTURE AND INSTALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. ROUTE MAINS UP IN BETWEEN JOIST. (TYPICAL) OFFSET AND TRANSITION AS REQUIRED.
- 4 COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATIONS AND LOCATIONS OF ROBERTSHAW 9191 T-STATS. (TYPICAL).
- 5 12" x 12" RISER TO EXHAUST FAN ON ROOF. (TYPICAL).
- 6 PROVIDE LOCKING COVER FOR T-STATS. (TYPICAL).
- 7 ROUTE DUCTWORK THROUGH WEBBING OF STRUCTURE. (TYPICAL).
- 8 OUTLINE OF RTU ON ROOF ABOVE. COORDINATE FINAL LOCATION WITH STRUCTURAL PLANS FOR EQUIPMENT SUPPORT LOCATIONS AND REQUIREMENTS. (TYPICAL).
- 9 HOLD DUCTWORK TIGHT TO BOTTOM OF STRUCTURAL.
- 10 COORDINATE WITH ARCH/STRUCTURAL PLANS AS TO FINAL LOCATION/REORIENTATION OF RTU'S. (TYPICAL).
- 11 PROVIDE 10' OF LINED RETURN AIR DUCTWORK WITH OPENING TURNED UPWARDS ON END.
- 12 COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATION OF GRILLES. (TYPICAL).
- 13 PROVIDE TEMPERATURE SENSOR FOR SPACE TEMP. CONTROL IN RETURN AIR DUCTWORK WITH ADJUSTABLE T-STAT ON WALL BY OFFICE AS SHOWN. (TYPICAL).
- 14 PROVIDE ROBERTSHAW 9191 T-STAT WITH LOCKING COVER FOR UNITS WITH TEMPERATURE SENSORS AT THIS LOCATION. (TYPICAL).
- 15 M.C. IS NOT TO SUPPORT ANYTHING FROM ROOF DECK UNLESS ENGINEERING IS PROVIDED. SEE DETAILS 116.4, 316.4, 216.3, 316.3 AND 116.3. (TYPICAL).
- 16 PROVIDE WALL SWITCH WITH 15 MINUTE AUTO DELAY FOR EXHAUST FANS. (TYPICAL).
- 17 ALL GRILLES ARE TO BE INSTALLED WITH BALANCING DAMPER. (TYPICAL).

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OR DUCTWORK ABOVE GYP. CEILINGS SHALL BE HARD DUCTED.
2. USE YOUNG GEAR TYPE BALANCING REGULATORS ABOVE ALL GYP. BOARD CEILINGS.
3. ALL MEDIUM PRESSURE DUCTWORK SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE. OFFSET AND TRANSITION AS REQUIRED.
4. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
5. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
6. PROVIDE ACCESS PANELS AS REQUIRED.
7. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
8. CONTRACTOR TO COORDINATE ALL FINAL LOCATION OF T-STATS WITH OWNER AND ARCHITECT.
9. CONTRACTOR TO PROVIDE AND INSTALL SOUND BOOTS ON ALL RETURN AIR GRILLES. BOOTS TO BE PAINTED FLAT BLACK.
10. CONTRACTOR TO COORDINATE GRILLES WITH REFLECTED CEILING GRID.
11. CONTRACTOR TO COORDINATE WITH ELECTRICAL SO AS NOT TO ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
12. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL MECHANICAL SYSTEMS.

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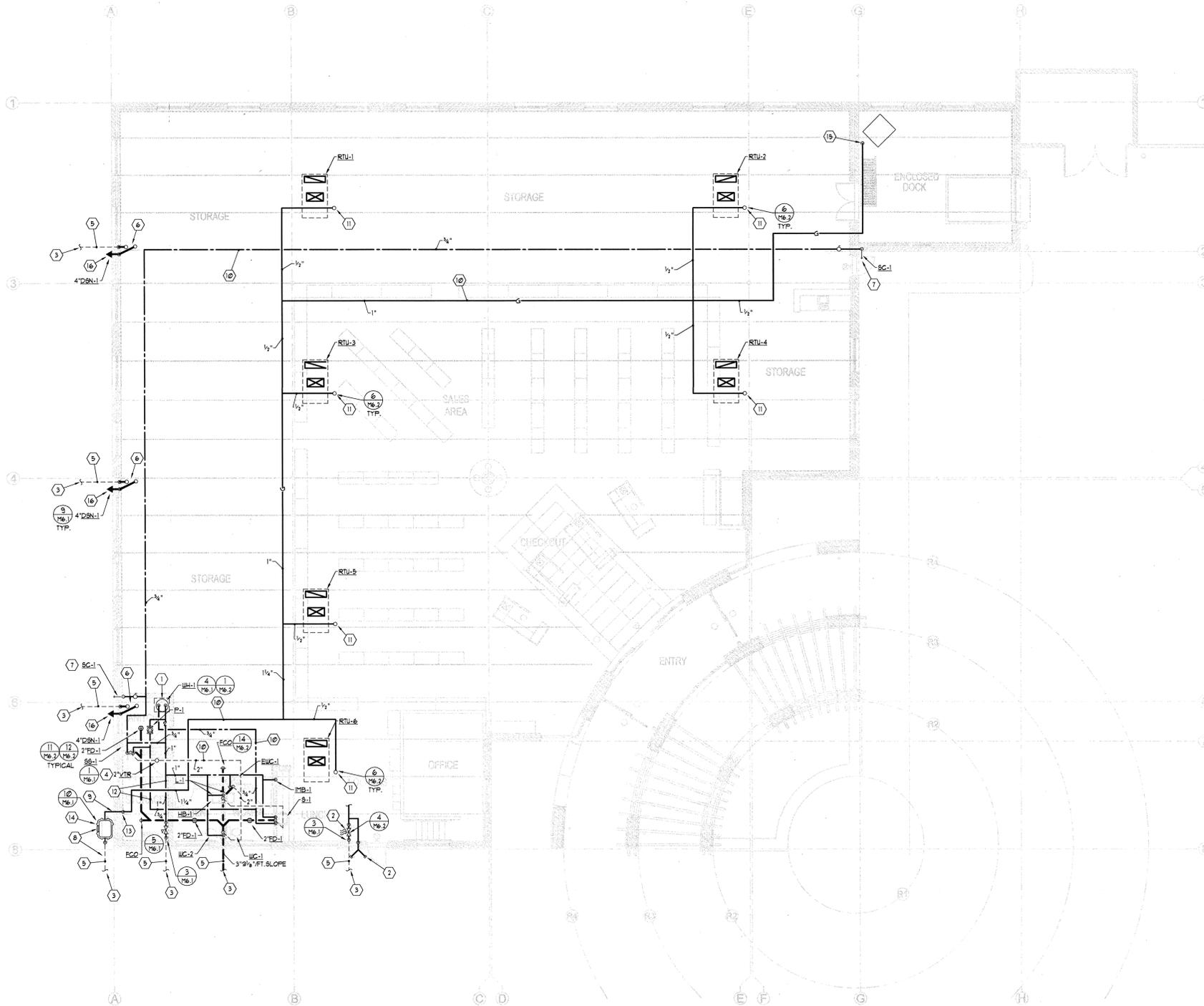
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PLUMBING FLOOR PLAN
SCALE: 1/8" = 1' - 0"
0' 4' 8' 12' 16'

KEYED NOTES:

- 1 M.C. TO PROVIDE 4" THICK HOUSE KEEPING UNDER ALL MECHANICAL EQUIPMENT. (TYPICAL).
- 2 FIRE RISER AND FIRE DEPARTMENT CONNECTION WITH HORN BELL AND ALARMS. ALL FIRE PROTECTION TO BE SIZED AND PROVIDED BY F.P.C.
- 3 M.C. TO COORDINATE WITH CIVIL PLANS FOR UTILITY LOCATIONS AND EXTEND ALL UTILITIES 5 FL. OUTSIDE OF BLDG. (TYPICAL).
- 4 VENT THROUGH ROOF. WATER PROOF AND SEAL ALL PENETRATIONS AS REQUIRED. (TYPICAL).
- 5 M.C. TO COORDINATE WITH CIVIL AND ARCH'S PLANS FOR FINAL ELEVATIONS AND PROVIDE CODE REQUIRED COVERAGE OVER ALL UTILITY PIPING ENTRY AND LEAVING BLDG. (TYPICAL).
- 6 4" RISERS TO ROOF AND OVERFLOW DRAINS ON ROOF. OFFSET AS REQUIRED TO DROP PIPING DOWN TIGHT ALONG AND ROUTE TO OVERFLOW DRAIN OR DROP BELOW SLAB AND OFFSET AS REQUIRED TO ROUTE AROUND FOOTING AND EXIT BLDG. COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATIONS OF DOWN SPOUT NOZZLES. (TYPICAL).
- 7 COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATION OF SILL COOKS. (TYPICAL).
- 8 YARD GAS PIPING AND GAS METER BY LOCAL GAS COMPANY. METER SIZE REQUIREMENTS - 1000 CFH @ 2 LB. PIPING SIZED FOR TOTAL LENGTH OF 250 FT.
- 9 M.C. TO ROUTE PIPING INTO BUILDING AS REQUIRED BY CODE. COORDINATE WITH LOCAL GAS COMPANY.
- 10 ROUTE PIPING UP IN JOIST SPACE BUT DON'T SUPPORT PIPING FROM ROOF DECK. SEE DETAILS 11M6.3, 41M6.4 & 71M6.4. (TYPICAL).
- 11 RISE GAS PIPING UP THROUGH ROOF AND CONNECT TO MECHANICAL EQUIPMENT AS REQUIRED BY CODE. (TYPICAL).
- 12 M.C. TO COORDINATE WITH ELECTRICAL SO AS NOT TO ROUTE PIPING OVER ELECTRICAL PANELS. (TYPICAL).
- 13 RISE GAS UP IN WALL AT THIS POINT.
- 14 PROVIDE BOLLARD AT THIS LOCATION FOR PROTECTION OF GAS METER.
- 15 PROVIDE FINAL CONNECTION TO GAS UNIT HEATER.
- 16 COORDINATE WITH ARCH'S PLANS AS TO FINAL LOCATION AND ELEVATION OF DOWN SPOUT NOZZLES.

GENERAL NOTES:

- 1 CONTRACTOR TO COORDINATE WITH ELECTRICAL AND DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
- 2 ALL PIPING SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE.
- 3 OFFSET AND TRANSITION PIPING AS REQUIRED.
- 4 ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILING.
- 5 PROVIDE ACCESS PANELS AS REQUIRED.
- 6 CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
- 7 PROVIDE 4" DEEP SEAL TRAPS WITH TRAP PRIMERS ON ALL FLOOR DRAINS & FLOOR SINKS.
- 8 ALL FIRE PROTECTION PIPING SHALL BE SIZED BY FIRE PROTECTION CONTRACTOR.
- 9 ALL WASTE PIPING TO BE SLOPED AS REQUIRED CODE.
- 10 PROVIDE CODE REQUIRED DIRT LEG AT ALL GAS CONNECTIONS TO MECHANICAL EQUIPMENT.
- 11 ALL DRAINAGE PIPING 3" AND SMALLER SHALL SLOPE @ 1/4" PER FOOT AND PIPING 4" AND LARGER SHALL SLOPE @ 1/8" PER FOOT.
- 12 SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING SYSTEMS.

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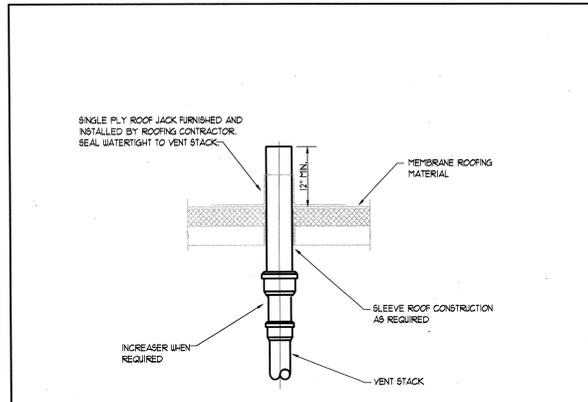
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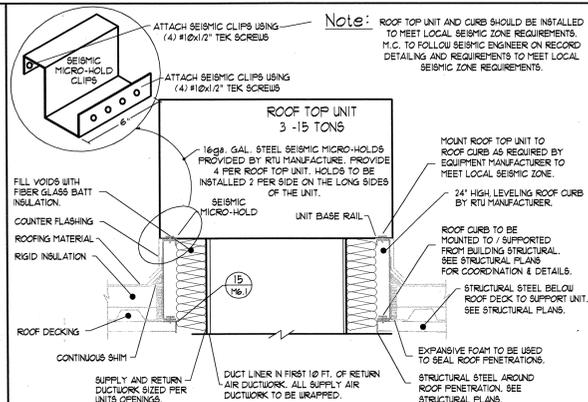
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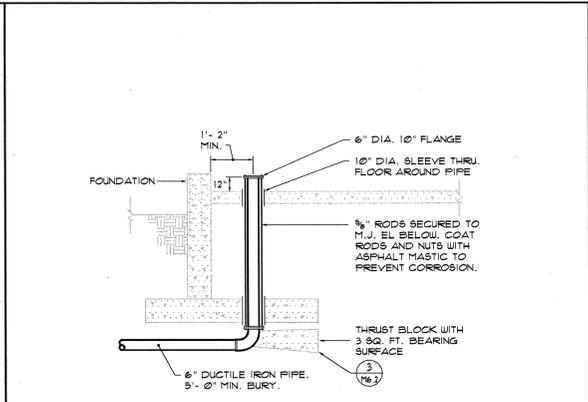
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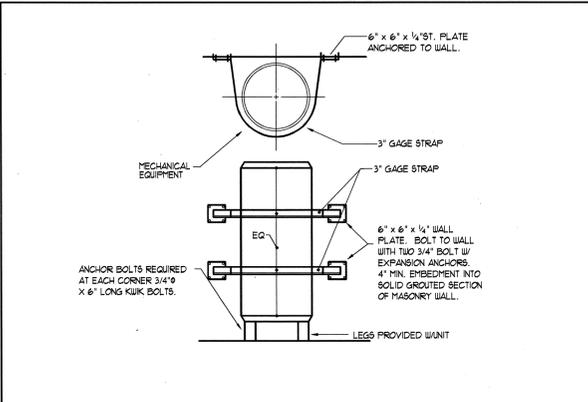
1 VENT THROUGH ROOF DETAIL
M6.1 NOT TO SCALE



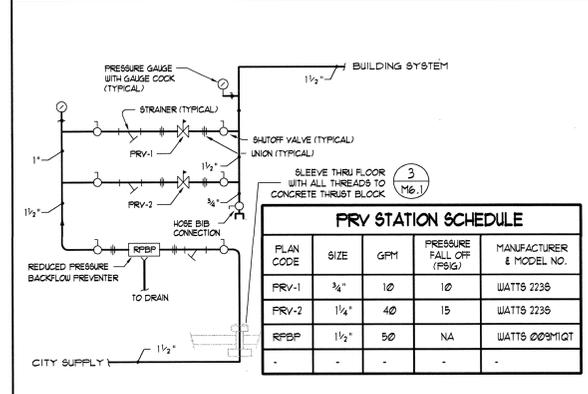
2 ROOF TOP UNIT CURB DETAIL
M6.1 NOT TO SCALE



3 WATER ENTRY DETAIL
M6.1 NOT TO SCALE

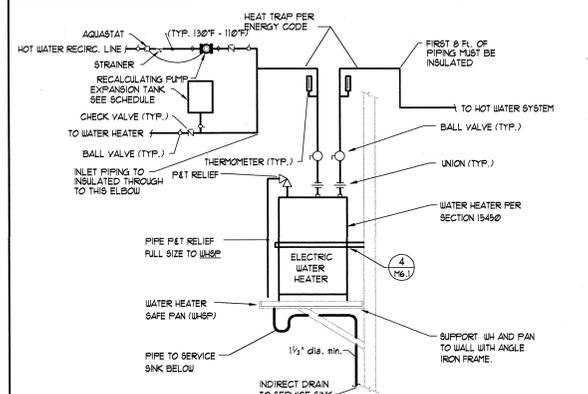


4 FLOOR MOUNTED EQUIPMENT ANCHOR & STRAP DETAIL
M6.1 NOT TO SCALE

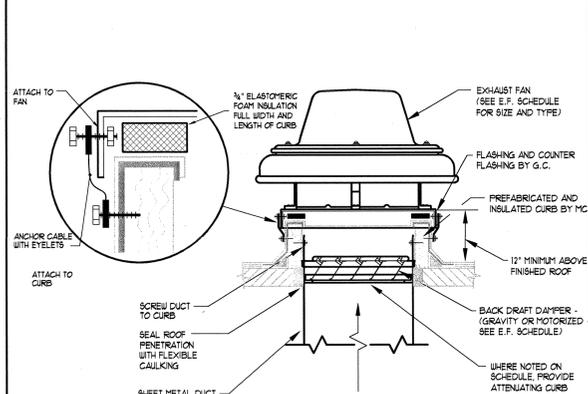


PRV STATION SCHEDULE				
PLAN CODE	SIZE	GPM	PRESSURE FALL OFF (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	3/4"	10	10	WATTS 2236
PRV-2	1 1/4"	40	15	WATTS 2236
RPBP	1 1/2"	50	NA	WATTS 009M1QT

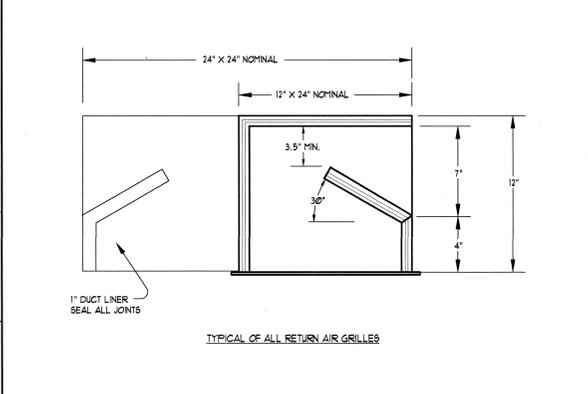
5 PRV STATION DETAIL
M6.1 NOT TO SCALE



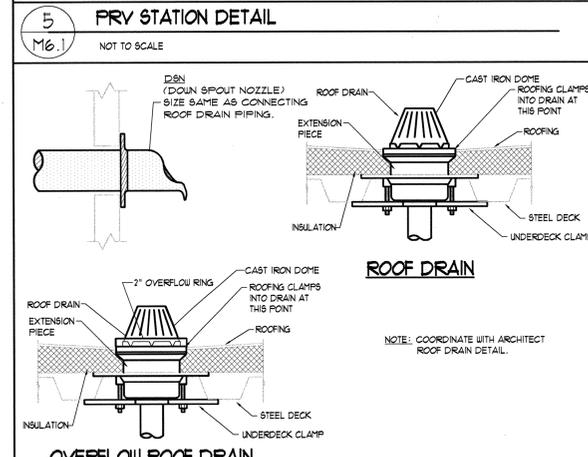
6 ELECTRIC WATER HEATER PIPING DETAIL (WALL HUNG)
M6.1 NOT TO SCALE



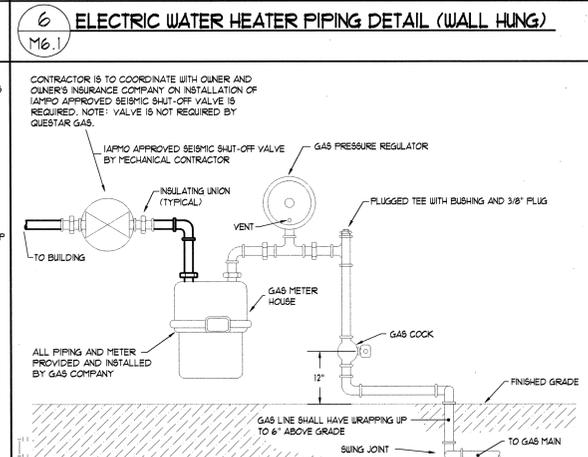
7 EXHAUST FAN AND CURB DETAIL
M6.1 NOT TO SCALE



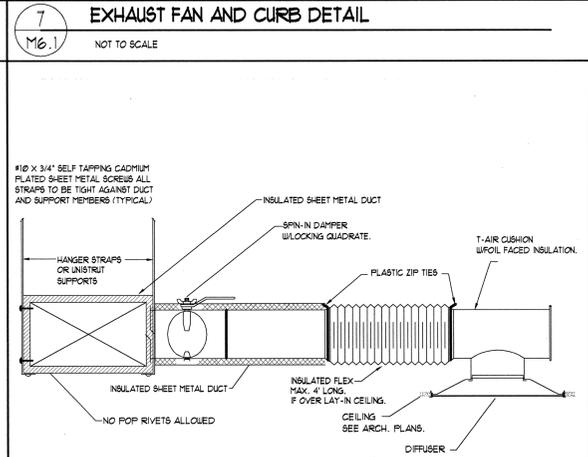
8 RETURN AIR GRILLE SOUND BOOT DETAIL
M6.1 NOT TO SCALE



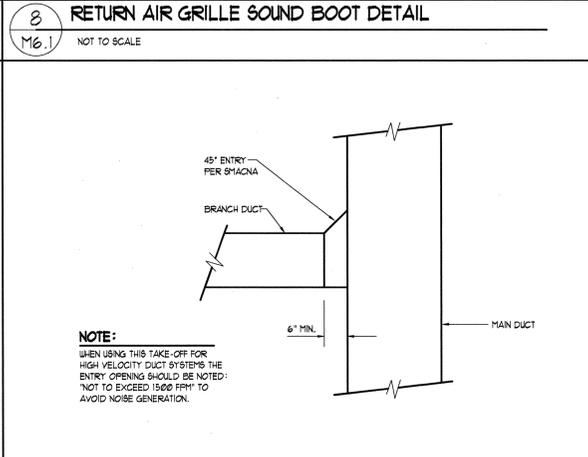
9 ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL
M6.1 NOT TO SCALE



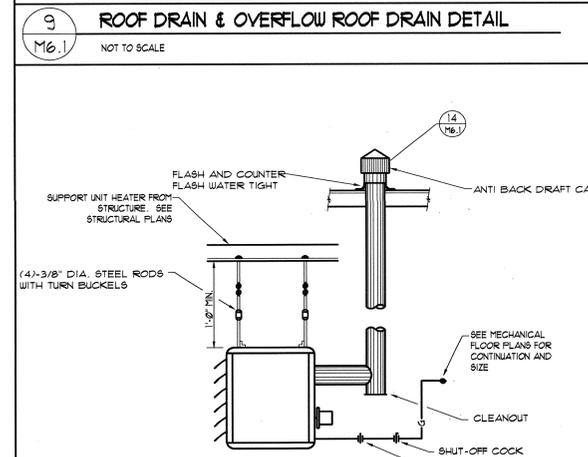
10 GAS METER SERVICE CONNECTION DETAIL
M6.1 NOT TO SCALE



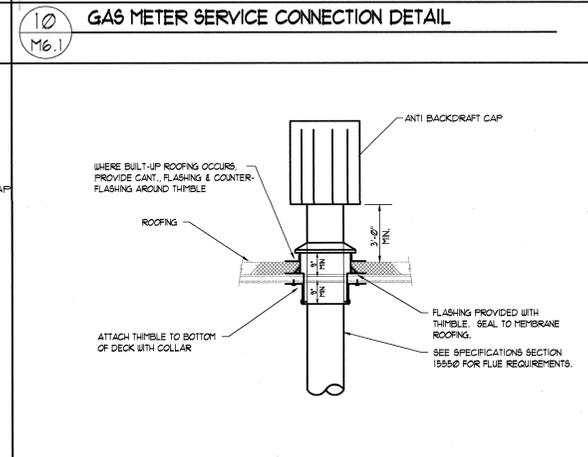
11 DIFFUSER MOUNTING DETAIL
M6.1 NOT TO SCALE



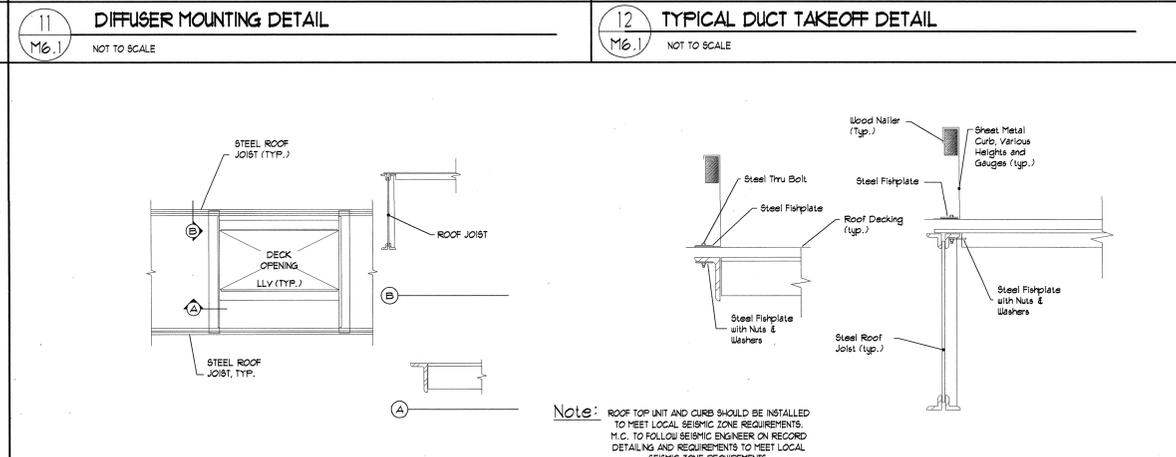
12 TYPICAL DUCT TAKEOFF DETAIL
M6.1 NOT TO SCALE



13 GAS FIRED UNIT HEATER DETAIL
M6.1 NOT TO SCALE



14 FLUE ROOF PENETRATION DETAIL
M6.1 NOT TO SCALE



15 ROOF CURB SEISMIC DETAIL (See Structural Plan for final detailing)
M6.1 NOT TO SCALE



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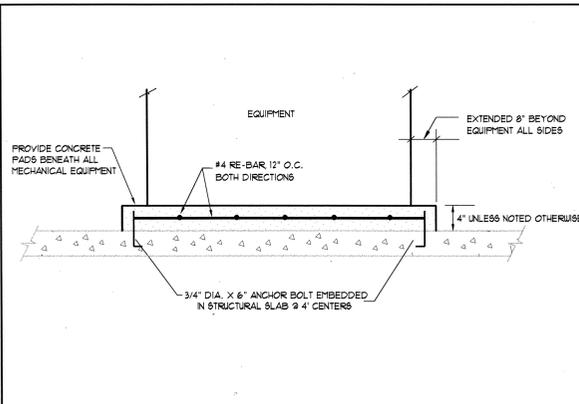


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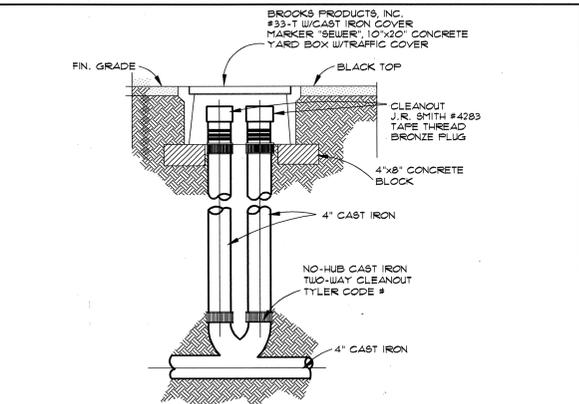
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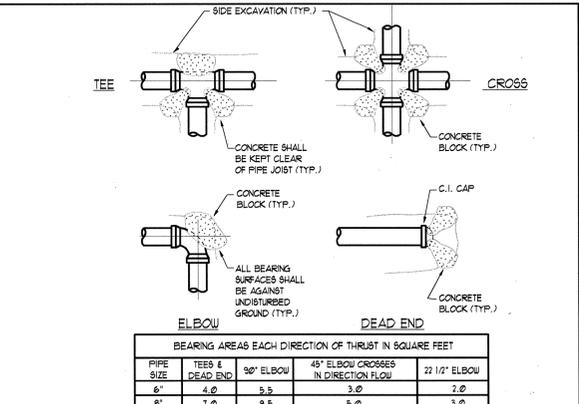
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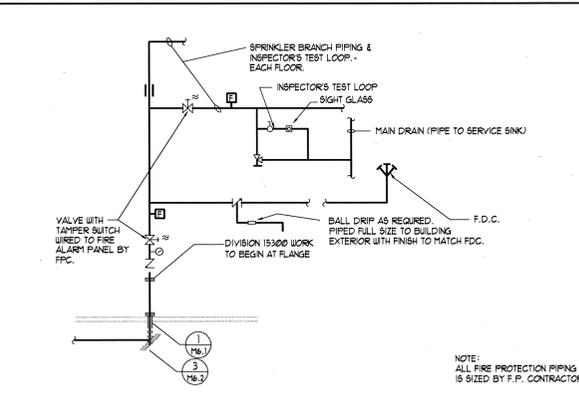
1 HOUSEKEEPING PAD DETAIL
M6.2 NOT TO SCALE



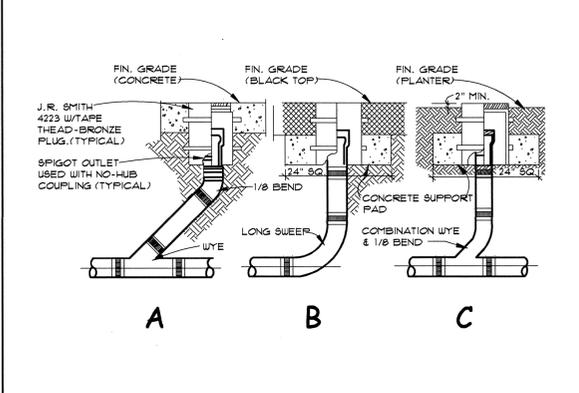
2 TWO - WAY CLEANOUT DETAIL
M6.2 NOT TO SCALE



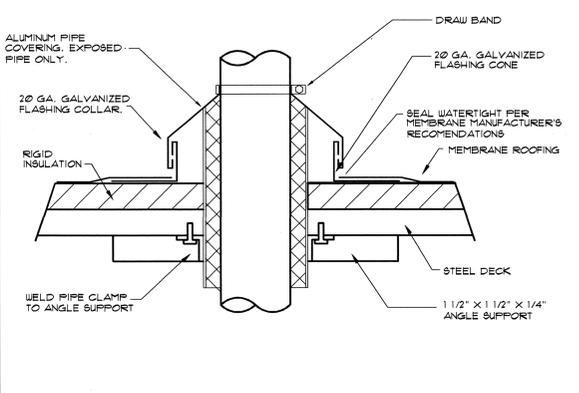
3 THRUST BLOCK DETAIL
M6.2 NOT TO SCALE



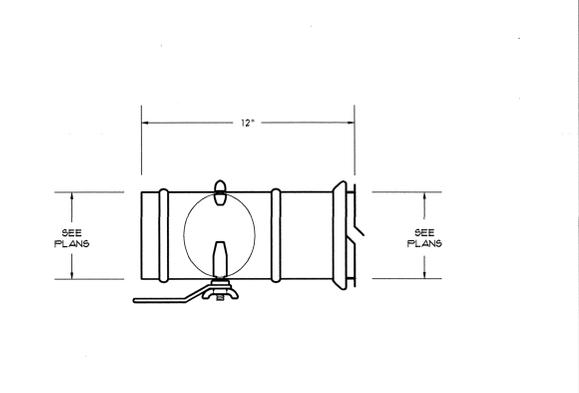
4 TYPICAL FIRE SPRINKLER SERVICE ENTRY DETAIL
M6.2 NOT TO SCALE



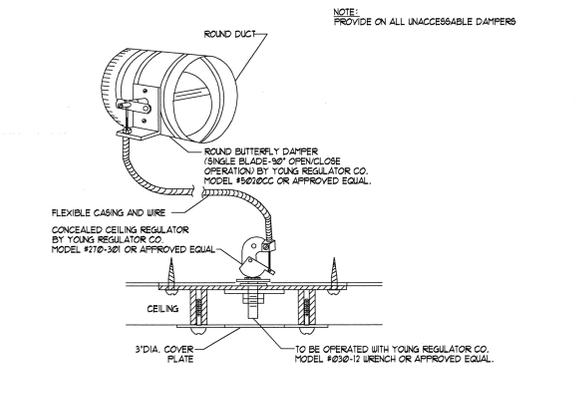
5 SURFACE/YARD CLEANOUT DETAIL
M6.2 NOT TO SCALE



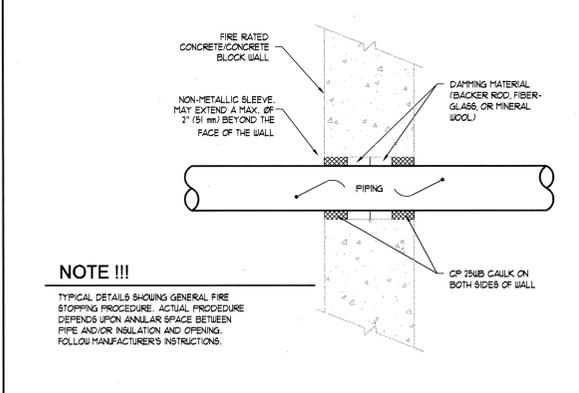
6 PIPE PENETRATION THRU ROOF DETAIL
M6.2 NOT TO SCALE



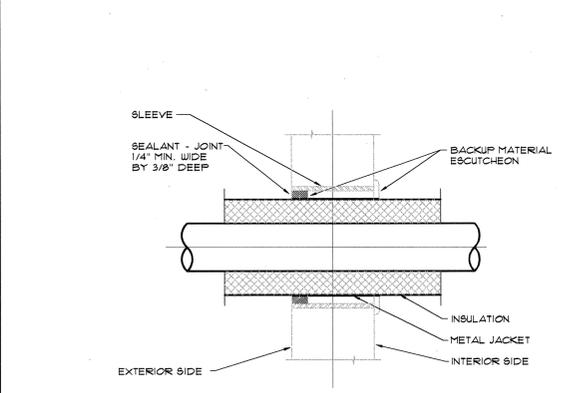
7 TYPICAL MANUAL VOLUME DAMPER DETAIL
M6.2 NOT TO SCALE



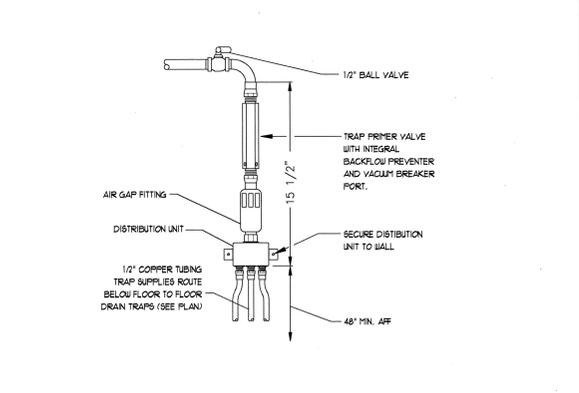
8 DAMPER AND REGULATOR DETAIL
M6.2 NOT TO SCALE



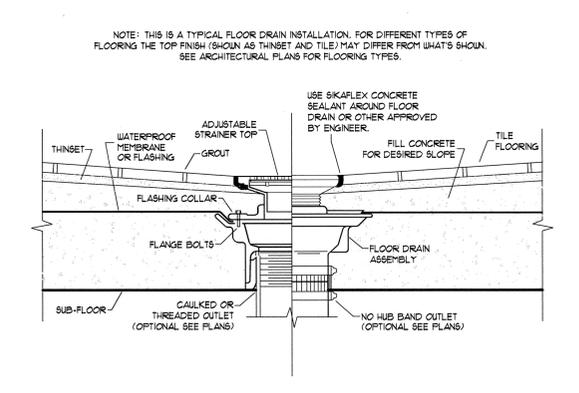
9 FIRESTOP THRU CONCRETE WALL
M6.2 NOT TO SCALE



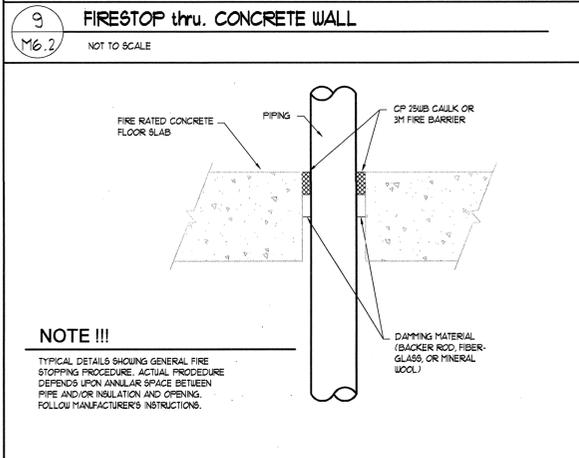
10 PIPE SLEEVE FOR INSULATED PIPE THRU WALL
M6.2 NOT TO SCALE



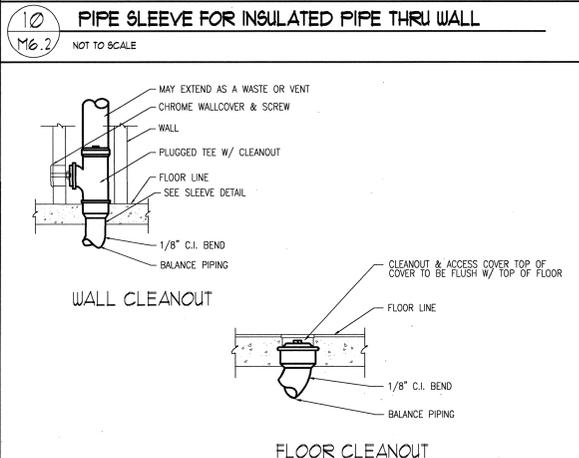
11 TRAP PRIMER DETAIL
M6.2 NOT TO SCALE



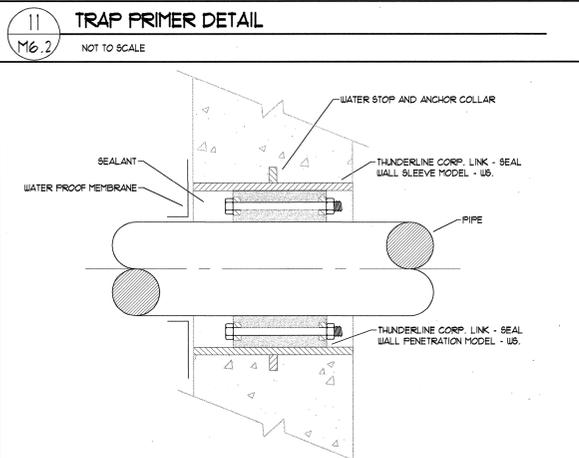
12 TYPICAL FLOOR DRAIN / SINK DETAIL
M6.2 NOT TO SCALE



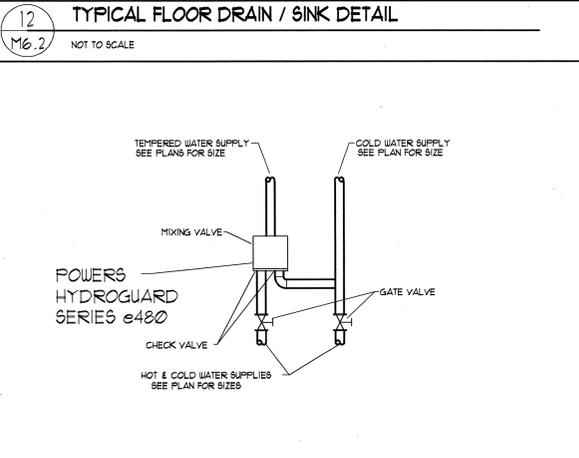
13 FIRESTOP THRU CONCRETE FLOOR
M6.2 NOT TO SCALE



14 CLEANOUT DETAIL
M6.2 NOT TO SCALE



15 FOUNDATION WALL SLEEVE DETAIL
M6.2 NOT TO SCALE



16 MIXING VALVE DETAIL
M6.2 NO SCALE



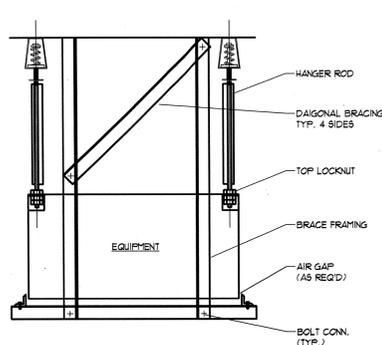
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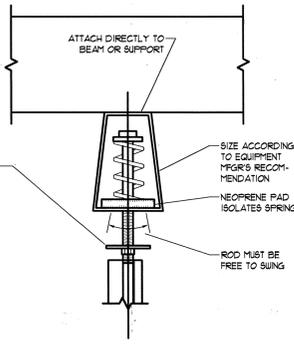
MECHANICAL DETAILS

REVISION # DATE:
DFCM PROJECT NO.: 08228.00
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FILE NAME: N/A
PLOT SCALE: 1/8"
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CHECKED BY: KAC
DATE: SEPT 2010

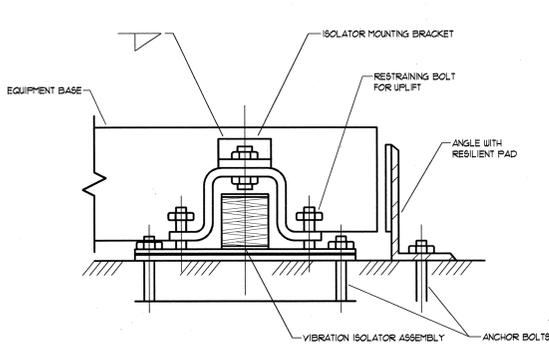
M6.2



EQUIPMENT SUSPENSION DETAIL



EQUIPMENT RESTRAINT DETAIL

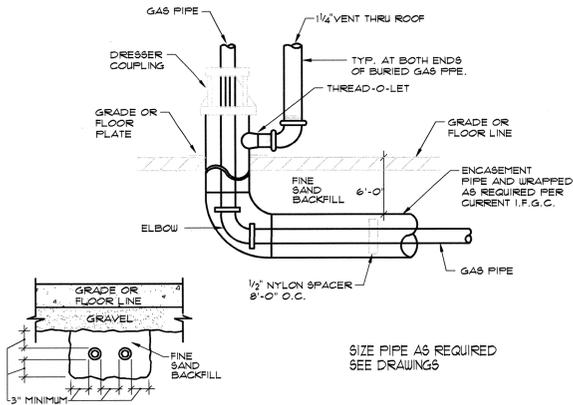


EQUIPMENT BRACE DETAIL

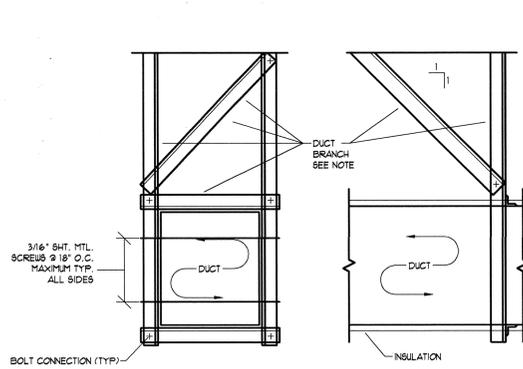
EQUIPMENT BRACING NOTES:

- DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
- REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
- SIZE RESTRAINTS PER EQUIPMENT OPERATING WEIGHTS.
- PROVIDE LATERAL BRACING FOR ALL SUSPENDED EQUIPMENT.
- SECURE FLOOR MOUNTED SPRING ISOLATED EQUIPMENT USING SEISMIC SPRING ISOLATORS.
- RIGIDLY MOUNTED EQUIPMENT SHALL BE SECURED WITH ANCHOR BOLTS SIZED FOR OPERATING WEIGHTS. PROVIDE NEOPRENE WASHERS AND SLEEVES FOR EQUIPMENT MOUNTED ON NEOPRENE PADS.
- FOR EQUIPMENT REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
a. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

1 EQUIPMENT SUSPENSION DETAIL
M6.4 NOT TO SCALE



2 GAS PIPE SLEEVE VENTING DETAIL
M6.4 NO SCALE



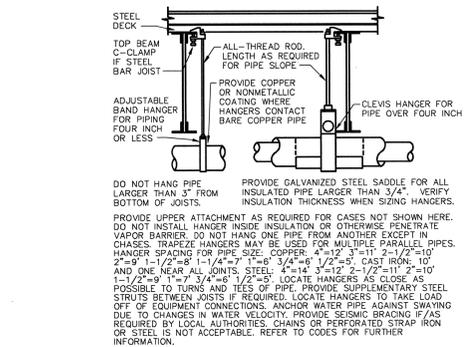
3 SEISMIC RESTRAINT OF DUCTS DETAIL
M6.4 NOT TO SCALE

SCHEDULE "A" BRACING OF RECTANGULAR DUCTS						
DUCT SIZE INCHES	VERTICAL ANGLES	DIAGONAL ANGLES	HORIZONTAL ANGLES	LONGITUDINAL ANGLES	BOLT SIZE #	WT. PER LINEAR FOOT
30" SQ.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2" X 2" X 16 GA.	3" X 3" X GA.	1/4"	13
42" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"	20
54" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"	27
60" SQ.	4" X 4" X 12 GA.	3" X 3" X 16 GA.	3" X 3" X 16 GA.	D.O.	3/8"	36
64" SQ.	4" X 4" X 1/4"	4" X 4" X 14 GA.	4" X 4" X 14 GA.	D.O.	3/8"	53
96" SQ.	5" X 3" X 1/4"	4" X 4" X 12 GA.	4" X 4" X 12 GA.	D.O.	1/2"	30

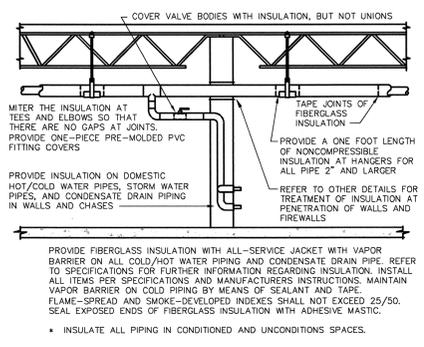
* MAXIMUM DIMENSION OF DUCT SHALL GOVERN WHAT BRACING REQUIRED.
EX: A 42" X 32" DUCT SHALL BE BRACED AS A 42" SQ. DUCT.
** MINIMUM EDGE DISTANCE FOR BOLTS:
1/4" - 1" 5/8" - 1-1/8"
3/8" - 1" 3/4" - 1-1/4"
1/2" - 1" 7/8" - 1-1/2"

DUCT BRACING NOTES:

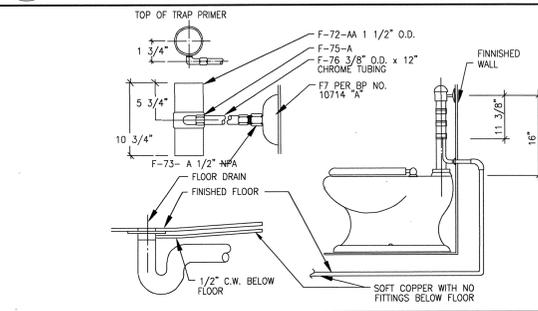
- DESIGN RESTRAINTS PER SEISMIC ZONE 4.
- REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
- FOR DUCTWORK REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
a. TRANSVERSE BRACE AT EACH DUCT CHANGE OF DIRECTION END OF DUCT RUN AND AT 30'-0" O.C. FOR STRAIGHT RUNS.
b. LONGITUDINAL BRACE AT 60'-0" O.C.
c. TRANSVERSE BRACING OF ONE DUCT SECTION MAY ACT AS A LONGITUDINAL BRACE FOR A DUCT SECTION CONNECTED PERPENDICULAR TO IT, PROVIDED THE BRACE IS INSTALLED WITHIN FOUR FEET OF THE INTERSECTION AND IS SIZED FOR THE LARGEST DUCT.
d. WALLS WHICH HAVE DUCTS PASSING THROUGH THEM MAY SUBSTITUTE FOR A TRANSVERSE BRACE.
e. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
f. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.



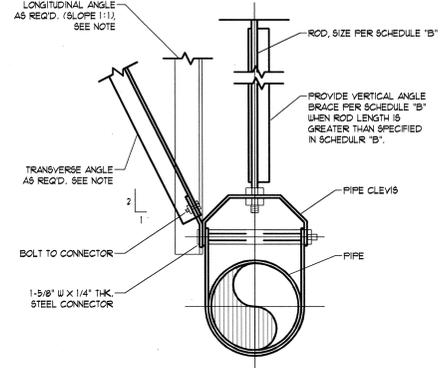
4 PIPE INSULATION DETAILS
M6.4 NO SCALE



6 HEAT MAINTENANCE CABLE INSTALLATION DETAIL
M6.4 SCALE: NTS



5 TRAP PRIMER DETAIL
M6.4 SCALE: NTS



PIPING BRACING NOTES:

- DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
- REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
- SEISMIC BRACING IS REQUIRED FOR ALL PIPING 2-1/2" AND LARGER.
- DO NOT USE BRANCH SECTIONS TO BRACE PIPING MAINS.
- PROVIDE FLEXIBLE COUPLINGS AT PENETRATIONS THROUGH BUILDING SEISMIC AND EXPANSION JOINTS AND WHERE PIPING IS RIGIDLY CONNECTED TO EQUIPMENT.
- FOR EQUIPMENT REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
a. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
b. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

7 TRANSVERSE SWAY BRACING DETAIL
M6.4 NOT TO SCALE

SCHEDULE "B" TRANSVERSE BRACING FOR PIPE							
PIPE SIZE INCHES	BOLTS TO ANGLES	LONGITUDINAL TRANSVERSE & VERTICAL ANGLES	ROD DIAMETER INCHES	MAXIMUM ROD LENGTH	MAXIMUM INTERVAL OF BRACES IN FEET		
					40-S STEEL OR CAST IRON	COPPER TUBE	
1	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19'	24.2	12.1	
1-1/4	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19'	24.2	12.1	
1-1/2	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19'	27.5	13.2	
2	3/8"	1-1/2" X 1-1/2" X 3/16"	1/2"	25'	31.9	15.4	
2-1/2	3/8"	2" X 2" X 5/16"	1/2"	25'	35.2	16.5	
3	3/8"	2" X 2" X 5/16"	1/2"	25'	37.4	18.7	
3-1/2	3/8"	2" X 2" X 5/16"	1/2"	25'	39.6	19.8	
4	3/8"	2" X 2" X 5/16"	5/8"	31'	42.9	20.9	
5	1/2"	2" X 2" X 5/16"	5/8"	31'	49.1	22.0	
6	1/2"	2" X 2" X 5/16"	3/4"	37'	49.5	24.2	
8	1/2"	2-1/2" X 2-1/2" X 1/4"	7/8"	43'	53.5	26.6	
10	1/2"	3" X 3" X 1/4"	7/8"	43'	58.4	30.8	

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REVISION # DATE:

DFCM PROJECT NO.: 08228.00
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 FILE NAME: N/A
 PLOT SCALE: 1/8" = 1'-0"
 DRAWN BY: A/C
 CHECKED BY: A/C
 DATE: SEPT 2010



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M6.4

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ELECTRICAL SYMBOLS		DASHED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ETC.	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ELECTRICAL WIRING			
—	CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.	N/A	
---	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	N/A	
----	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR	N/A	
A-13	BRANCH CIRCUIT HOMERUNG TO PANEL #PANEL # CIRCUIT NUMBER DESIGNATIONS.	N/A	
0	CONDUIT RISER UP	N/A	
+	CONDUIT RISER DOWN	N/A	
3	CONDUIT STUB (CAP CONDUIT)	AS NOTED	
3	CABLE TRAY	AS NOTED	
BI	BUS DUCT	AS NOTED	
ELECTRICAL POWER			
Ⓜ	JUNCTION BOX	AS NOTED	
Ⓜ	DUPLEX RECEPTACLE	+48"	
Ⓜ	QUAD RECEPTACLE	+16"	
Ⓜ	SPLIT WIRE DUPLEX RECEPTACLE	+16"	
Ⓜ	DUPLEX RECEPTACLE WEATHERPROOF AND SFCI	+16"	
Ⓜ	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"	
Ⓜ	RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"	
Ⓜ	EQUIPMENT RECEPTACLE	+16"	
Ⓜ	SPECIAL PURPOSE RECEPTACLE	+16"	
Ⓜ	DUPLEX RECEPTACLE FLOOR	FLOOR	
Ⓜ	QUAD RECEPTACLE FLOOR	FLOOR	
Ⓜ	POWER/TELEPHONE POLE	FLOOR	
○	SNOW MELT CABLE	+48"	
ELECTRICAL CONNECTIONS			
Ⓜ	NON-FUSED DISCONNECT SWITCH	TOP AT 6'-0"	
Ⓜ	FUSED DISCONNECT SWITCH	TOP AT 6'-0"	
Ⓜ	MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED	TOP AT 6'-0"	
Ⓜ	MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED	TOP AT 6'-0"	
Ⓜ	MOTOR STARTER ONLY	TOP AT 6'-0"	
Ⓜ	VARIABLE FREQUENCY DRIVE	+16"	
Ⓜ	MOTOR CONNECTION	AS NOTED	
ELECTRICAL DISTRIBUTION			
Ⓜ	TELEPHONE COMPANY PEDESTAL	AS NOTED	
Ⓜ	POWER COMPANY GROUND SLEEVE	AS NOTED	
Ⓜ	POWER COMPANY SITE TRANSFORMER	AS NOTED	
Ⓜ	HIGH VOLTAGE (277/480 VOLT) PANELBOARD	TOP AT 6'-0"	
Ⓜ	LOW VOLTAGE (120/208 VOLT) PANELBOARD	TOP AT 6'-0"	
Ⓜ	DRY TYPE TRANSFORMER	AS NOTED	
Ⓜ	DISTRIBUTION SWITCHBOARD	AS NOTED	
Ⓜ	TELEPHONE AND/OR DATA TERMINAL BOARD	AS NOTED	
ELECTRICAL DEVICES			
Ⓜ	PUSHBUTTON	+48"	
Ⓜ	STOP/START STATION	+48"	
Ⓜ	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+48"	
Ⓜ	LINE VOLTAGE THERMOSTAT	+48"	
Ⓜ	CLOCK	AS NOTED	
Ⓜ	NURSE CALL BED/BATH STATION	+48"	
Ⓜ	NURSE CALL LIGHT	+48"	
Ⓜ	NURSE CALL STATION PANEL	TOP AT 6'-0"	
LIGHTING CONTROL			
Ⓜ	SINGLE POLE SWITCH	+48"	
Ⓜ	3-WAY SWITCH	+48"	
Ⓜ	4-WAY SWITCH	+48"	
Ⓜ	SWITCH WITH PILOT LIGHT	+48"	
Ⓜ	DIMMER SWITCH	+48"	
Ⓜ	KEYED SWITCH	+48"	
Ⓜ	TIMER SWITCH (SPRING WOUND)	+48"	
Ⓜ	MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED	
Ⓜ	LOW VOLTAGE SWITCH	+48"	
CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)			
Ⓜ	SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY	+48"	
Ⓜ	OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING	
Ⓜ	TIME SWITCH	+60"	
Ⓜ	LIGHTING CONTACTOR	+60"	
Ⓜ	PHOTOCELL	AS NOTED	
LIGHTING			
Ⓜ	FLUORESCENT FIXTURE (TYPICAL)	CEILING	
Ⓜ	FLUORESCENT EMERGENCY FIXTURE (TYPICAL)	CEILING	
Ⓜ	SURFACE MOUNTED FIXTURE	CEILING	
Ⓜ	RECESSED FIXTURE	CEILING	
Ⓜ	WALL MOUNTED FIXTURE	AS NOTED	
Ⓜ	WALL MOUNTED EMERGENCY EGRESS FIXTURE	AS NOTED	
Ⓜ	FLUORESCENT STRIP	CEILING	
Ⓜ	TRACK LIGHTING	CEILING	
Ⓜ	EMERGENCY LIGHTING UNIT	+48"	
Ⓜ	FIXTURE TYPE SYMBOL (ATTACHED TO FIXTURE SYMBOL)	N/A	
Ⓜ	POST TOP AREA LIGHT POLE & FIXTURE	AS NOTED	
Ⓜ	AREA LIGHT POLE AND FIXTURE (HEAD QTY AS SHOWN ON PLAN)	AS NOTED	
Ⓜ	BOLLARD FIXTURE	GROUND	
Ⓜ	FLOOD OR SPOT FIXTURE	AS NOTED	
Ⓜ	WALL MOUNTED EXIT LIGHT (SINGLE FACE)	+48"	
Ⓜ	WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+48"	
Ⓜ	CEILING MOUNTED EXIT LIGHT (SINGLE FACE)	CEILING	
Ⓜ	CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)	CEILING	
TELECOMMUNICATIONS			
Ⓜ	TELEPHONE OUTLET	+16"	
Ⓜ	COMPUTER DATA OUTLET	+16"	
Ⓜ	VOICE / DATA OUTLET	+16"	
Ⓜ	TELEPHONE OUTLET FLOOR	FLOOR	
Ⓜ	COMPUTER DATA OUTLET FLOOR	FLOOR	
Ⓜ	NETWORK AND VOICE OUTLET FLOOR	FLOOR	
REFERENCE SYMBOLS			
Ⓜ	FEEDER TAG (ONE LINE DIAGRAM)	N/A	
Ⓜ	REVISION TAG INDICATOR	N/A	
Ⓜ	DETAIL INDICATOR, TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.	N/A	
Ⓜ	MECHANICAL EQUIPMENT SYMBOL	N/A	
Ⓜ	KEYED NOTE REFERENCE	N/A	
AUDIO / VIDEO			
Ⓜ	TELEVISION OUTLET	AS NOTED	
Ⓜ	VOLUME CONTROL	+48"	
Ⓜ	SPEAKER	CEILING	
Ⓜ	MICROPHONE JACK	+16"	
Ⓜ	AUXILIARY JACK	+16"	
Ⓜ	INTERCOM STATION	+48"	
Ⓜ	BELL	+84"	
Ⓜ	GAME	+84"	
FIRE ALARM			
Ⓜ	FIRE ALARM MANUAL PULL STATION	SEE DETAIL	
Ⓜ	FIRE ALARM HORN/STROBE	SEE DETAIL	
Ⓜ	FIRE ALARM HORN/STROBE WITH GUARD	SEE DETAIL	
Ⓜ	FIRE ALARM HORN/STROBE WATERPROOF	SEE DETAIL	
Ⓜ	FIRE ALARM STROBE	SEE DETAIL	
Ⓜ	SMOKE DETECTOR	CEILING	
Ⓜ	SMOKE DETECTOR BATTERY-BACKED	CEILING	
Ⓜ	DUCT SMOKE DETECTOR	IN DUCT	
Ⓜ	SMOKE DETECTOR (ELEVATOR RECALL)	CEILING	
Ⓜ	HEAT DETECTOR	CEILING	
Ⓜ	GAS DETECTOR	+16"	
Ⓜ	DOOR HOLDER	AS NOTED	
Ⓜ	PRESSURE SWITCH	AS NOTED	
Ⓜ	FIRE ALARM FAN SWITCH	AS NOTED	
Ⓜ	FIRE ALARM TAMPON SWITCH	AS NOTED	
Ⓜ	FIRE ALARM FIREFIGHTER PHONE	+48"	
Ⓜ	CONTROL MODULE	AS NOTED	
Ⓜ	MONITOR MODULE	AS NOTED	
Ⓜ	FIRE/SMOKE DAMPER	AS NOTED	
Ⓜ	FIRE ALARM RELAY	AS NOTED	
Ⓜ	FIRE ALARM GENERATOR ANNUNCIATOR	TOP AT 6'-0"	
Ⓜ	FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED	
Ⓜ	FIRE ALARM CONTROL PANEL	TOP AT 6'-0"	
Ⓜ	FIRE ALARM REMOTE ANNUNCIATOR PANEL	TOP AT 6'-0"	
SECURITY			
Ⓜ	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB	
Ⓜ	SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED	
Ⓜ	SECURITY SYSTEM KEYPAD ARM/DISARM	+48"	
Ⓜ	SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED	
Ⓜ	SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED	
Ⓜ	REQUEST TO EXIT MOTION DETECTOR	AS NOTED	
Ⓜ	SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED	
Ⓜ	SECURITY SYSTEM GLASS BREAK SENSOR	AS NOTED	
Ⓜ	SECURITY SYSTEM CARD READER	+48"	
Ⓜ	SECURITY SYSTEM DOOR ACCESS KEYPAD	+48"	
Ⓜ	SECURITY SYSTEM CCTV CAMERA	AS NOTED	
Ⓜ	DIGITAL VIDEO RECORDER	AS NOTED	
Ⓜ	SECURITY SYSTEM CCTV MONITOR	AS NOTED	
Ⓜ	SECURITY SYSTEM PANEL	TOP AT 6'-0"	
Ⓜ	POWER SUPPLY LOW VOLTAGE	AS NOTED	

ABBREVIATIONS		
AMP	ABOVE FINISHED FLOOR	ENC
AMP	ARC FAULT PROTECTOR	ENH
ASC	AMP INTERRUPTING CURRENT (SYMMETRICAL)	(A)
AL	ALUMINUM	FA
B6	BELOW GRADE	FLA
C	CONDUIT	FP1
CFI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	FP2
GKT	CIRCUIT	GRG
CO	CONDUIT ONLY	GRD
CU	COPPER	IS
CM	COMPLETE WITH	MCB
E	EMERGENCY	MCC
EX	EXISTING	MH
EPD	EMERGENCY POWER OFF	MLO
N	NEW	
NC	NOT IN CONTRACT	
NL	NIGHT LIGHT	
OFI	OWNER FURNISHED CONTRACTOR INSTALLED	
OFI	OWNER FURNISHED OWNER INSTALLED	
PL	PANEL	
REL	RELAY	
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	
TYP	TYPICAL	
UN	UNLESS NOTED OTHERWISE	
WP	WEATHER PROOF	
W	W/SHOULD BE DELETED	
XPR	TRANSFORMER	

* THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

- ### GENERAL NOTES:
- THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
 - SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, THE GLOCKS PHOTOCELLS, RELAYS, SWITCHGEAR, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROL, SECURITY SYSTEMS, SOUND SYSTEMS, ETC.
 - IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURER CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN INTENT AND SPECIFICATION.
 - CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
 - ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY OR SERVICE COMPANIES FOR BUT NOT LIMITED TO POWER, TELEPHONE, FIBER OPTIC & INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO DUCTS, PIPING OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN ENTER OR PASS THROUGH EXISTING ROOMS OR SPACES OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE MOST RECENT VERSION OF THE NATIONAL ELECTRICAL CODE REGARDING CLEARANCES REQUIRED AROUND THE PANELBOARDS.
 - DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECT'S ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH-IN OF ELECTRICAL SERVICE JUNCTION BOXES.
 - CONSULT ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS, ETC.
 - ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
 - VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
 - ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL VERIFY SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.
 - CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT TO BE INSTALLED AT EACH LOCATION.
 - WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
 - WORK MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
 - FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
 - ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH END WITH IDENTIFICATION POINT USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
 - ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATINGS OF ASSEMBLY.
 - ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
 - WIRE FOR GENERAL USE SHALL BE COPPER 100% C RATED. WIRING FOR HD FIXTURES WITHIN 3' OF FLUORESCENT BALLAST SHALL BE COPPER 100% C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30' C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR CAPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
 - CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO DETERMINE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER FOR BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
 - ALL WIRING SHALL BE ENCLOSED IN METAL RACEWAYS. ALL RECEPTACLES, LIGHTING FIXTURES, ETC. SHALL HAVE A SEPARATE INSULATED GROUNDING CONDUCTOR FROM EACH DEVICE TO THE BRANCH PANEL.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
 - VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "GULLY STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EROSION CONTROL, SUPPORTS SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.
 - FILLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
 - SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCHAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
 - ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECTS THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
 - PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
 - ALL CABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED NOT LESS THAN 1/2" FROM THE NEAREST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 300.4(B).
 - ALL CONDUITS RUN AT ROOF DECK SHALL BE SUPPORTED FROM UNSTRUCT CHANNELS & KEPT A MINIMUM OF 1/2" FROM THE ROOF DECK.

- ### LIGHTING CONTROL PANEL NOTES:
- SYSTEM DESCRIPTION FOR LIGHTING INTEGRATOR PANEL SYSTEM WITH AUTOMATION CARD (NON-FC CONTROL)
 - THE LIGHTING CONTROL SYSTEM SHALL CONSIST OF ANY OF THE FOLLOWING COMPONENTS: RELAY PANELS, DATALINE WIRING, SWITCHES, SENSORS AND REMOTE OVERRIDE DEVICES. ALL EQUIPMENT TO BE UL/CUL CERTIFIED TO MEET UL 916.
 - THE RELAY PANELS SHALL BE SUITABLE FOR MOUNTING IN ELECTRICAL CLOSETS AND MOUNTED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES. THE RELAYS WILL CONTROL INDIVIDUAL CIRCUITS OR BRANCH CIRCUITS AS INDICATED IN THE RELAY PANEL SCHEDULES. ALL POWER WIRING WILL BE IDENTIFIED AT THE RELAY BY ITS CONTROLLING CIRCUIT BREAKER AND BRANCH LETTER.
 - LOW VOLTAGE SWITCHES, OCCUPANCY SENSORS AND/OR PHOTOCELLS SHALL BE MOUNTED IN THE SPACES AS INDICATED ON THE REFLECTED CEILING PLANS. LOW VOLTAGE WIRING FROM THE SWITCHES AND SENSORS TO THE RELAY PANEL SHALL BE CLASS 2 OR CLASS 2P (PLENUM RATED) AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND LOCAL STANDARDS. USE ONLY PROPERLY COLOR-CODED, STRANDED 100 AMP (OR LARGER) WIRE AS INDICATED ON THE DRAWINGS.
 - PANEL COMPONENTS TO INCLUDE: ENCLOSURE AND COVER, POWER SUPPLY AND PANEL INTERIOR ASSEMBLY WITH MOTHERBOARD AND CONTROL. ELECTRONICS PANELS ARE TO BE SHIPPED FULLY ASSEMBLED YET DESIGNED FOR DISASSEMBLY FOR MOUNTING THE ENCLOSURE FIRST, AND REASSEMBLY AFTER CONDUIT ROUGH-IN. THE PANEL SHALL INCLUDE VISUAL LED STATUS AND MANUAL OVERRIDE FOR EACH RELAY. TERMINALS FOR EACH RELAY FOR DIRECT-WIRED DEVICES SUCH AS SENSORS AND SWITCHES, SYSTEM DATALINE TERMINALS, AND PROGRAMMABLE SYSTEM SWITCHES.
 - EACH RELAY PANEL SHALL USE 30A BALLAST RATED, 120/277VAC, MECHANICALLY LATCHING RELAYS AS REQUIRED. RELAYS SHALL HAVE A MINIMUM 10000 AMP SHORT CIRCUIT CURRENT RATINGS. ELECTRICALLY HELD RELAYS WILL NOT BE ACCEPTABLE. PANELS SHALL BE SIZED TO MAXIMUM 8, 24, OR 48 RELAYS. EACH RELAY SHALL PROVIDE PILOT OUTPUT CONTACTS, RATED AT 1/2 AMP 240VAC.
 - AN OPTIONAL GROUP SWITCHING (GS) CARD SHALL BE PROVIDED FOR CONTROLLING 8 GROUPS OF LIGHTING PLUS PATTERN CONTROL FOR EACH GROUP. EACH GS CARD SHALL PROVIDE 8 TERMINALS FOR CONNECTION TO DIRECT WIRED SWITCHES, OVERRIDE DEVICES AND OCCUPANCY SENSORS. EACH GROUP SHALL HAVE AN LED ASSOCIATED TO INDICATE ITS STATUS AND A MANUAL OVERRIDE FUSEBLOW.
 - PANEL INTELLIGENCE CARD FOR AUTOMATION FUNCTIONS SHALL BE PROVIDED VIA A PLUG-IN CARD SLOT ON THE PANEL MOTHERBOARD. THE INTELLIGENCE BOARD SHALL BE A DISTRIBUTED INTELLIGENCE COMPONENT, CAPABLE OF EXECUTING ALL SCHEDULES, PROGRAMMABLE SWITCHES, AND OCCUPANT OVERRIDES WITHOUT RELYING ON ANY OTHER COMPONENT IN THE SYSTEM.
 - THE AUTOMATION INTELLIGENCE CARD SHALL PROVIDE CONNECTION TO OPTIONAL MODULES THAT PROVIDE CLOCK SCHEDULING, OR TO A BUILDING MANAGEMENT SYSTEM VIA DRY CONTACTS, OR A TELEPHONE CONTROL MODULE, OR A PHOTOSENSOR CONTROL MODULE FOR EXTERIOR LIGHTING CONTROL.
 - A PROGRAMMABLE NETWORK CLOCK WITH AN 8 LINE LCD DISPLAY SHALL BE INSTALLED IN THE PANEL. THE CLOCK SHALL PROVIDE MENU DRIVEN CONTROL FOR 8 DIFFERENT LIGHTING GROUPS, WITH 7 DAY REPEATING SCHEDULES AND PROVISION FOR HOLIDAYS. THE CLOCK SHALL PROVIDE USER SELECTABLE PRE-PROGRAMMED SCENARIOS FOR: SCHEDULED ON/OFF, MANUAL ON/ SCHEDULED OFF, MANUAL ON/ SNEEP WITH AUTOMATIC CONTROL SWITCH, ASTRO ON/OFF, ASTRO ON/SCHEDULED OFF, AND DARK ON/OFF WHEN USED WITH THE PHOTOSENSOR CONTROL MODULE.
 - AN PHOTOSENSOR CONTROL (PC) MODULE WITH COMPATIBLE OUTDOOR PHOTOCELL SHALL BE PROVIDED FOR EXTERIOR LIGHTING CONTROL. THE PC MODULE SHALL PROVIDE 8 AUTOMATION CHANNELS WITH USER PROGRAMMABLE SET POINTS FOR EACH CHANNEL. THE PROGRAMMABLE RANGE FOR EACH CHANNEL SHALL BE 0-200 FOOTCANDLES. A TWO-LINE LCD WINDOW SHALL DISPLAY REAL-TIME LIGHT LEVELS FOR EACH CHANNEL AND USER PROGRAMMED SETPOINTS.
 - RELAY PANELS WILL BE CAPABLE OF FOLLOWING STANDARD FEATURES: SCHEDULED ON/OFF, ASTRONOMICAL TIME OF DAY, BLINK WARNING, TRUE AFTER HOURS TIME DELAY, JANITOR SCENARIO SWITCHES, TELEPHONE OVERRIDES, PULSE ON/OFF.
 - COLOR CODED WIRE SHALL BE PROVIDED FOR NETWORKING PANELS TOGETHER AND FOR CONNECTION TO DIGITAL SIGNALING DATALINE SWITCHES.
 - WIRE CONNECTING PANELS TOGETHER SHALL BE DUAL 18/2 TWISTED PAIR, UNSHIELDED DATALINE WIRE (4 CONDUCTORS) TO PROVIDE A ROBUST, HIGH-SPEED COMMUNICATIONS PATH. DATALINE CAN BE RUN IN ANY CONVENIENT TOPOLOGY SERIES AS BENEFITS THE INSTALLATION. I.E. T-TAP STAR, OR LOOP. USE ONE PAIR ONLY FOR NETWORKING PANELS TOGETHER. WIRE SHALL BE THE MATT STOPPER HOLDA DATALINE WIRE. USE ONE PAIR FOR CONNECTING PANELS TOGETHER. USE PLENUM RATED WIRE WHEN APPLICABLE.
 - WIRE CONNECTING DIGITAL SIGNALING DATALINE SWITCHES TO PANELS SHALL BE DUAL 18/2 TWISTED PAIR, UNSHIELDED DATALINE WIRE (4 CONDUCTORS) TO PROVIDE A ROBUST, HIGH-SPEED COMMUNICATIONS PATH. DATALINE CAN BE RUN IN ANY CONVENIENT TOPOLOGY SERIES AS BENEFITS THE INSTALLATION. I.E. T-TAP STAR, OR LOOP. WIRE SHALL BE THE MATT STOPPER HOLDA DATALINE WIRE. USE BOTH PAIRS FOR CONNECTING PANELS TO DATALINE SWITCHES. USE PLENUM RATED WIRE WHEN APPLICABLE.
 - MANUFACTURER SHALL PROVIDE A FACTORY AUTHORIZED TECHNICIAN TO CONFIRM PROPER INSTALLATION AND OPERATION OF ALL SYSTEM COMPONENTS INCLUDING OCCUPANCY SENSORS AND DAYLIGHTING CONTROLS.
 - MANUFACTURER SHALL PROVIDE FACTORY AUTHORIZED APPLICATION ENGINEER TO TRAIN OWNER PERSONNEL IN THE OPERATION AND PROGRAMMING OF THE LIGHTING CONTROL SYSTEM.
 - MANUFACTURER SHALL PROVIDE SYSTEM DOCUMENTATION INCLUDING:
 - A. SYSTEM I-LINE SHOWING ALL PANELS, NUMBER AND TYPE OF SWITCHES AND SENSORS, DATALINE, FRONT END MATERIAL.
 - B. DRAWINGS FOR EACH PANEL SHOWING HARDWARE CONFIGURATION AND NUMBERING.
 - C. PANEL WIRING SCHEDULES.
 - D. TYPICAL WIRING DIAGRAMS FOR EACH COMPONENT.

NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH
 FRANK N MURDOCK JR ■ Architect & Associates
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PROFESSIONAL ENGINEER
 No. 19784
 P. E. in UTAH
 STATE OF UTAH
 9/14/2010

REVISION # DATE:

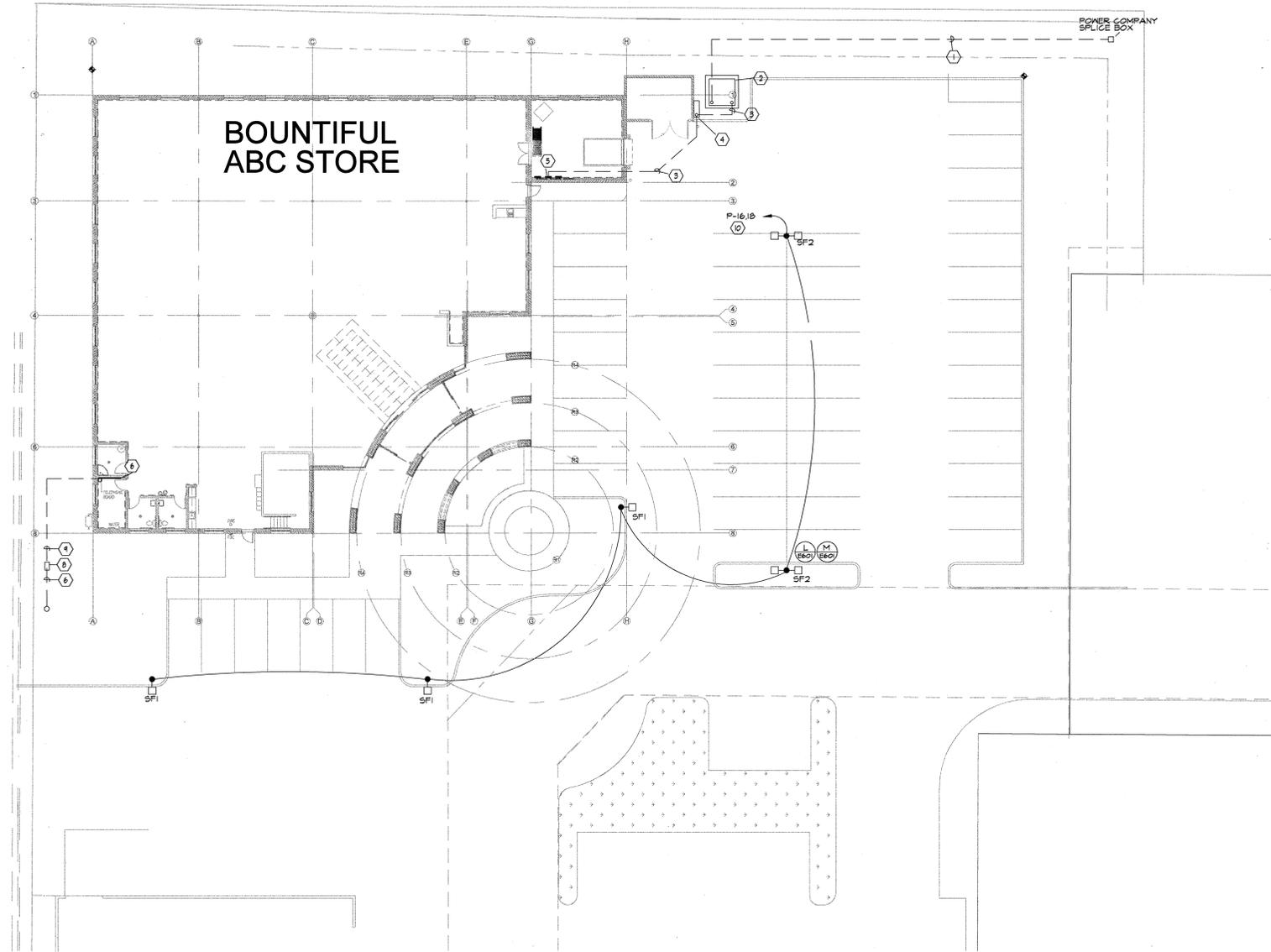
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08228.00
 CONST. DOC.
 FILE NAME: N/A
 PLOT SCALE: 1/8"=1'-0"
 DRAWN BY: JRC
 CHECKED BY: RKR
 DATE: SEPT 2010

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E100

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- GENERAL SITE PLAN NOTES:**
1. ELECTRICAL CONTRACTOR TO REFER TO THE CIVIL ENGINEER'S DRAWING AND COORDINATE ELECTRICAL INSTALLATION WITH ALL UTILITIES.
 2. ELECTRICAL CONTRACTOR TO VERIFY ALL THE UTILITY COMPANY SERVICE (POWER, TELEPHONE, ETC.) TERMINATION POINTS DURING THE BIDDING PROCESS. PROVIDE CONDUIT AS REQUIRED TO THE BUILDING TO ACCOMMODATE ALL UTILITY COMPANY SERVICES. REPORT ANY CONFLICTING CONDITIONS TO THE ARCHITECT.

- KEYED NOTES (ⓐ):**
1. POWER COMPANY PRIMARY FEEDER TO GROUND BOX (SEE ONE LINE DIAGRAM). VERIFY THE EXACT GROUND BOX LOCATION WITH THE BOUNTIFUL CITY POWER COMPANY DURING THE BIDDING PROCESS.
 2. NEW TRANSFORMER AND PAD. (SEE ONE LINE DIAGRAM).
 3. MAIN SERVICE FEEDER (SEE ONE LINE DIAGRAM).
 4. UL508C RATED CT MAIN BREAKER ENCLOSURE (SEE ONE LINE DIAGRAM). PROVIDE AND INSTALL AS PER POWER COMPANY SPECIFICATIONS.
 5. PANELBOARD 'P1'.
 6. MAIN TELEPHONE COMPANY SERVICE CONDUIT TO TELEPHONE COMPANY PEDESTAL. VERIFY EXACT PEDESTAL LOCATION WITH TELEPHONE COMPANY DURING THE BIDDING PROCESS. PROVIDE ALL CONDUIT AND TRENCHING. (SEE TELEPHONE RISER DIAGRAM).
 7. MAIN TELEPHONE BOARD (SEE RISER).
 8. TELEPHONE JUNCTION BOX AS PER UTAH STATE REQUIREMENTS (SEE TELEPHONE/DATA RISER DIAGRAM).
 9. MAIN TELEPHONE SERVICE CONDUIT (SEE RISER DIAGRAM).
 10. TO PANEL 'P1', CIRCUIT VIA LIGHTING CONTROL PANEL 'RP'. SEE PANEL SCHEDULE FOR BRANCH FEEDER CONDUIT AND WIRE SIZE. SEE LIGHTING CONTROL PANEL SCHEDULE AND DETAIL FOR LIGHTING CONTROL.

A ELECTRICAL SITE PLAN
 E101 SCALE 1/8" = 1' - 0"

NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH
 FRANK N. MURDOCK JR. ■ Architect & Associates
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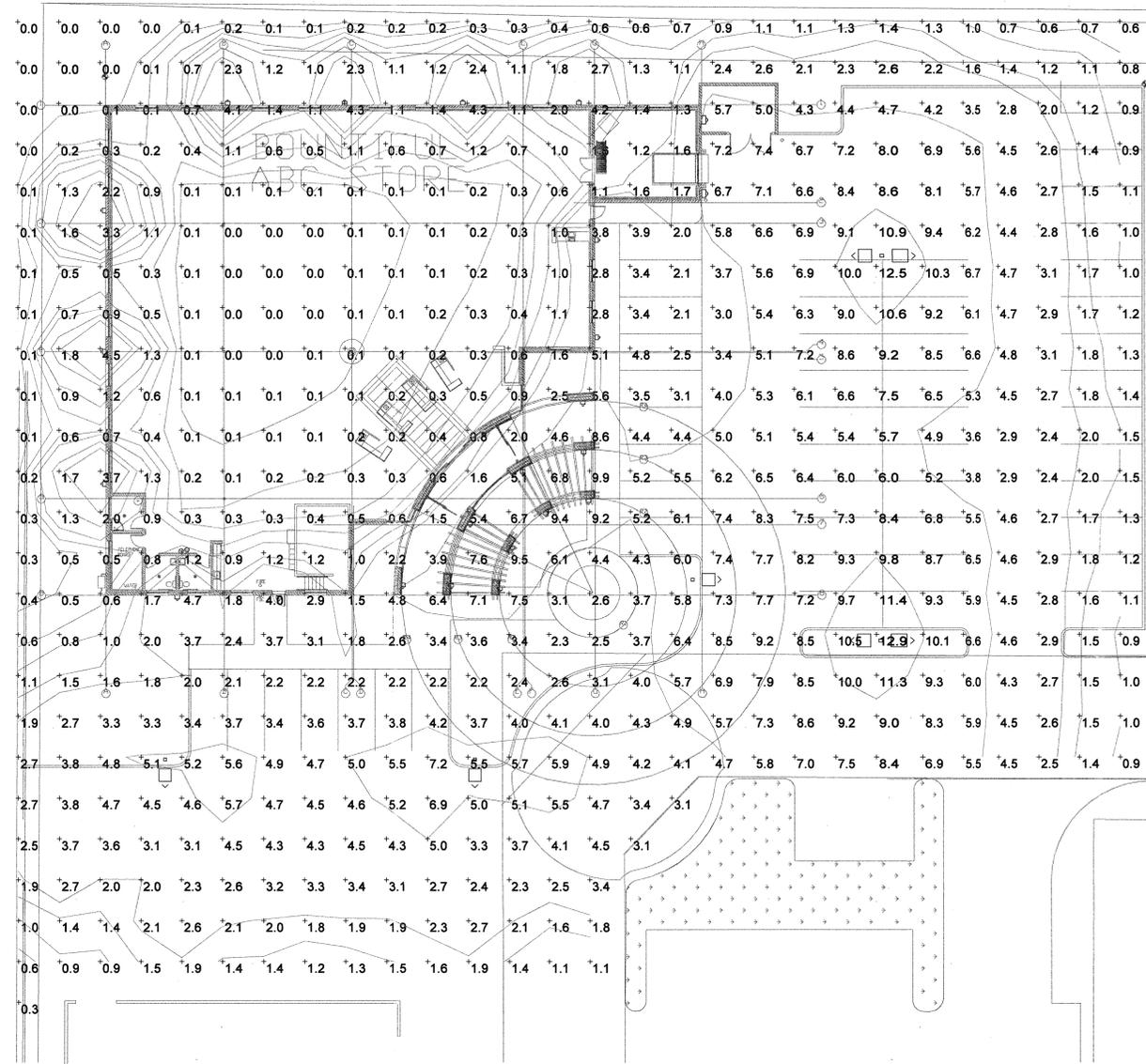
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E101

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LUMINAIRE SCHEDULE								
Symbol	Label	Qty	Catalog Number	Description	Lamp	Mounting	Lumens	Watts
	SF1	3	ICM-400-MH-XX-3S	MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE III DISTRIBUTION	400-WATT MH CLEAR ED-28	Pole 28'	36000	400
	SF2	2	ICM-400-MH-XX-4S	MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE IV DISTRIBUTION	400 WATT MH CLEAR ED-28	Pole 28'	36000	800
	F9	21	ENV-42-CF-XX-EB-CFG	ARCHITECTURAL WALL LUMINAIRE - COMPACT FLUORESCENT OPTIC 90% MAIN / 10% SECONDARY GLOW	42 WATT DOUBLE TWIN TUBE COMPACT FLUORESCENT	Surface 10'	3200	50
	F10	2	MHGP-100	WALL MOUNT LUMINAIRE	100 WATT MH ED-17 MEDIUM BASE CLEAR	Surface 12'	6800	100

STATISTICS									
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG	CV	Avg/Max
Calc Zone #2	+	3.1 fc	12.9 fc	0.0 fc	N / A	N / A	23.1	0.9	0.2:1



A SITE PLAN - PHOTOMETRIC
 E102 SCALE: 1/8" = 1' - 0"

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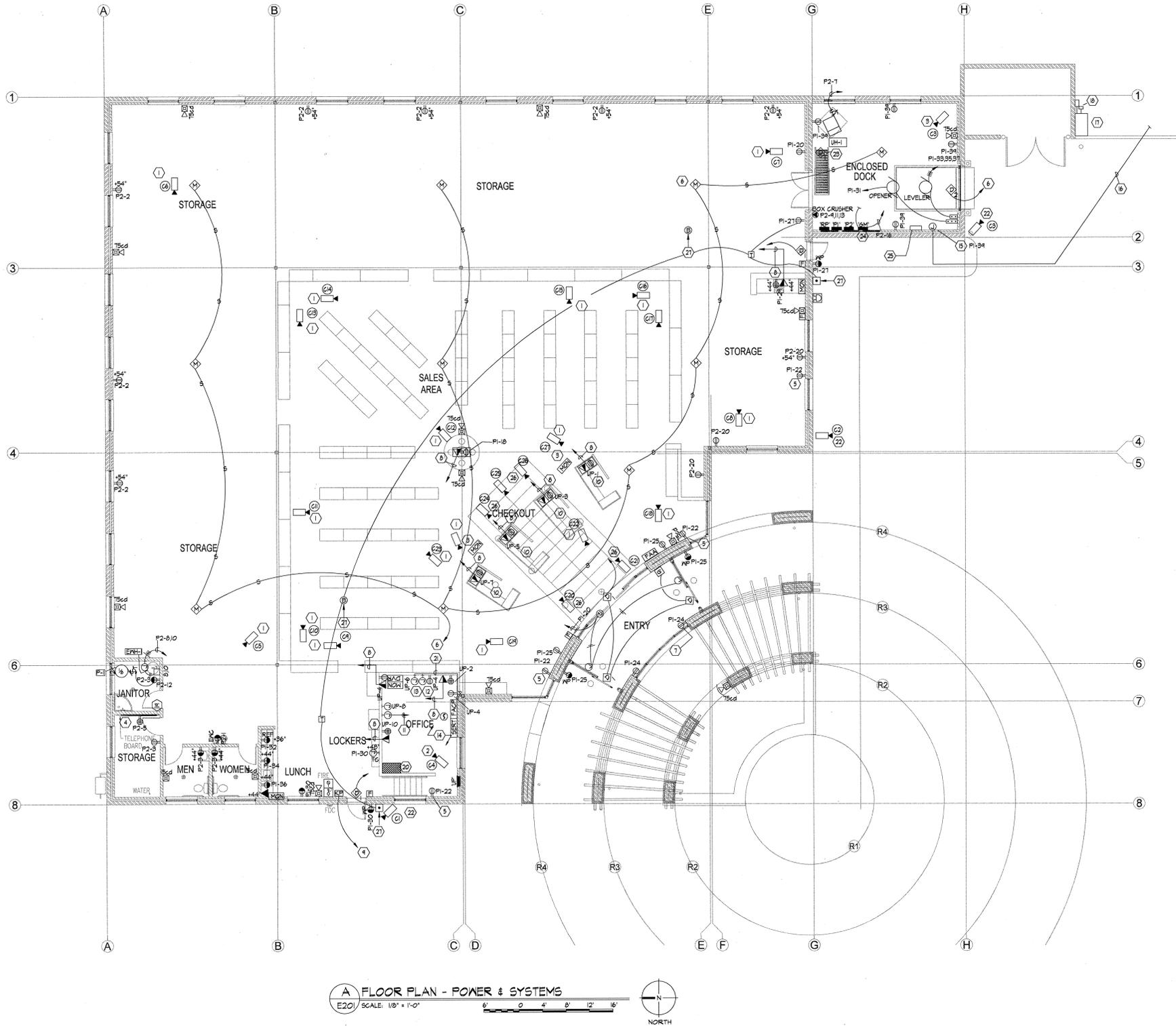
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E102

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GENERAL NOTES:

1. PROVIDE AND INSTALL A 3/4" CONDUIT WITH SECURITY SYSTEM WIRE FROM EACH SECURITY DEVICE TO THE SECURITY PANEL LOCATED IN THE OFFICE.
2. ALL CABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED TO THE NEAREST OUTSIDE SURFACE IF THE CABLE OR RACEWAY IS NOT LESS THAN 1/2" FROM THE NEAREST SURFACE OF THE ROOF DECKING.

KEYED NOTES (C):

1. SECURITY CCTV CAMERA TO BE STEM MOUNTED ON A PEDESTAL (18" TO 24" AS REQUIRED) TO CLEAR LIGHTING FIXTURES. PROVIDE AND INSTALL A 3/4" CONDUIT TO CCTV/SECURITY PANEL LOCATED IN THE OFFICE.
2. SECURITY CCTV CAMERA TO BE STEM MOUNTED ON A PEDESTAL (18" TO 24" AS REQUIRED) TO CLEAR LIGHTING FIXTURES. CAMERA TO BE POINTED AT OFFICE SALES AREA. PROVIDE AND INSTALL A 3/4" CONDUIT WITH COAXIAL CABLE (AS SPECIFIED BY THE SECURITY SYSTEM EQUIPMENT SUPPLIER/CONTRACTOR) TO CCTV/SECURITY PANEL LOCATED IN THE OFFICE. SEE CCTV RISER DIAGRAM.
3. PUBLIC VIEWING SECURITY CCTV LCD MONITOR.
4. TELEPHONE/DATA BOARD (SEE TELEPHONE/DATA RISER DIAGRAM).
5. DUPLEX RECEPTACLE FOR SIGNAGE. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHT. CIRCUIT VIA LIGHTING CONTROL PANEL (SEE LIGHTING CONTROL DETAIL AND SCHEDULE).
6. SECURITY SYSTEM ADDRESSABLE DEVICE. WIRE TO SECURITY PANEL IN 3/4" CONDUIT.
7. OUTLET MOUNTED AT 48" FOR "OPEN" SIGN. CIRCUIT VIA LIGHTING CONTROL PANEL (SEE LIGHTING CONTROL DETAIL AND SCHEDULE). SEE LIGHTING PLAN FOR OVERRIDE SWITCH LOCATION.
8. (1)-1" CONDUIT WITH NYLON FULL STRINGS TO THE DATA RACK AND (1)-1" CONDUIT WITH NYLON FULL STRINGS TO THE TELEPHONE BOARD. SEE SHEET TELEPHONE/DATA RISER DIAGRAM.
9. 3/4" CONDUIT WITH SECURITY SYSTEM WIRE TO SECURITY PANEL.
10. SEE POINT OF SALE UNDER COUNTER DETAIL.
11. DATA RACK. 2" CONDUIT WITH NYLON FULL STRINGS TO MAIN TELEPHONE BOARD.
12. CCTV SYSTEM JUNCTION BOX. SIZE AS REQUIRED. ROUTE TO CCTV EQUIPMENT IN RACK UNDER COUNTER MONITOR ON DESK.
13. JUNCTION BOX FOR CCTV SYSTEM POWER SUPPLY.
14. SEE ARCHITECTURAL INTERIOR AND CABINET ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT IN OFFICE AREA. ARCHITECTURAL ELEVATIONS TAKE PRECEDENCE OVER THESE DRAWINGS FOR ALL OUTLET AND EQUIPMENT LOCATIONS.
15. JUNCTION BOX FOR SPRINKLER CONTROLLER, PROVIDED BY OTHERS, INSTALLED BY THE ELECTRICAL CONTRACTOR.
16. 2" CONDUIT WITH NYLON FULL STRINGS, STUB CAP AND MARK FOR SPRINKLER CONTROLS.
17. BUSBERG RATED CT/MAN BREAKER CABINET (SEE ONE LINE DIAGRAM).
18. METER BASE (SEE ONE LINE DIAGRAM).
19. UNIT LOCATED ON ROOF.
20. UPS SYSTEM.
21. (2)-3" CONDUITS WITH NYLON FULL STRINGS TO STRUCTURE FOR VIDEO CABLES TO CAMERAS AND MONITORS.
22. SECURITY CCTV CAMERA TO BE MOUNTED ON WALL AS REQUIRED IN A SECURITY ENCLOSURE. PROVIDE AND INSTALL A 3/4" CONDUIT TO CCTV/SECURITY PANEL LOCATED IN THE OFFICE.
23. ROOF HATCH SECURITY DOOR CONTACT.
24. GUTTER MELT SYSTEM CONTROLLER.
25. SPRINKLER CONTROLLER. STUB 2" CONDUIT OUT OF BUILDING BELOW GRADE FOR VALVE CONTROL WIRES.
26. CAMERA DOME MOUNTED TO CEILING.
27. DOOR SIGNALING SYSTEM. EDWARDS 1850 PUSH BUTTON, #130 BUZZER, #140 BELL AND #540 TRANSFORMER.

A FLOOR PLAN - POWER & SYSTEMS
 E201 SCALE: 1/8" = 1'-0"
 0 4 8 12 16
 NORTH

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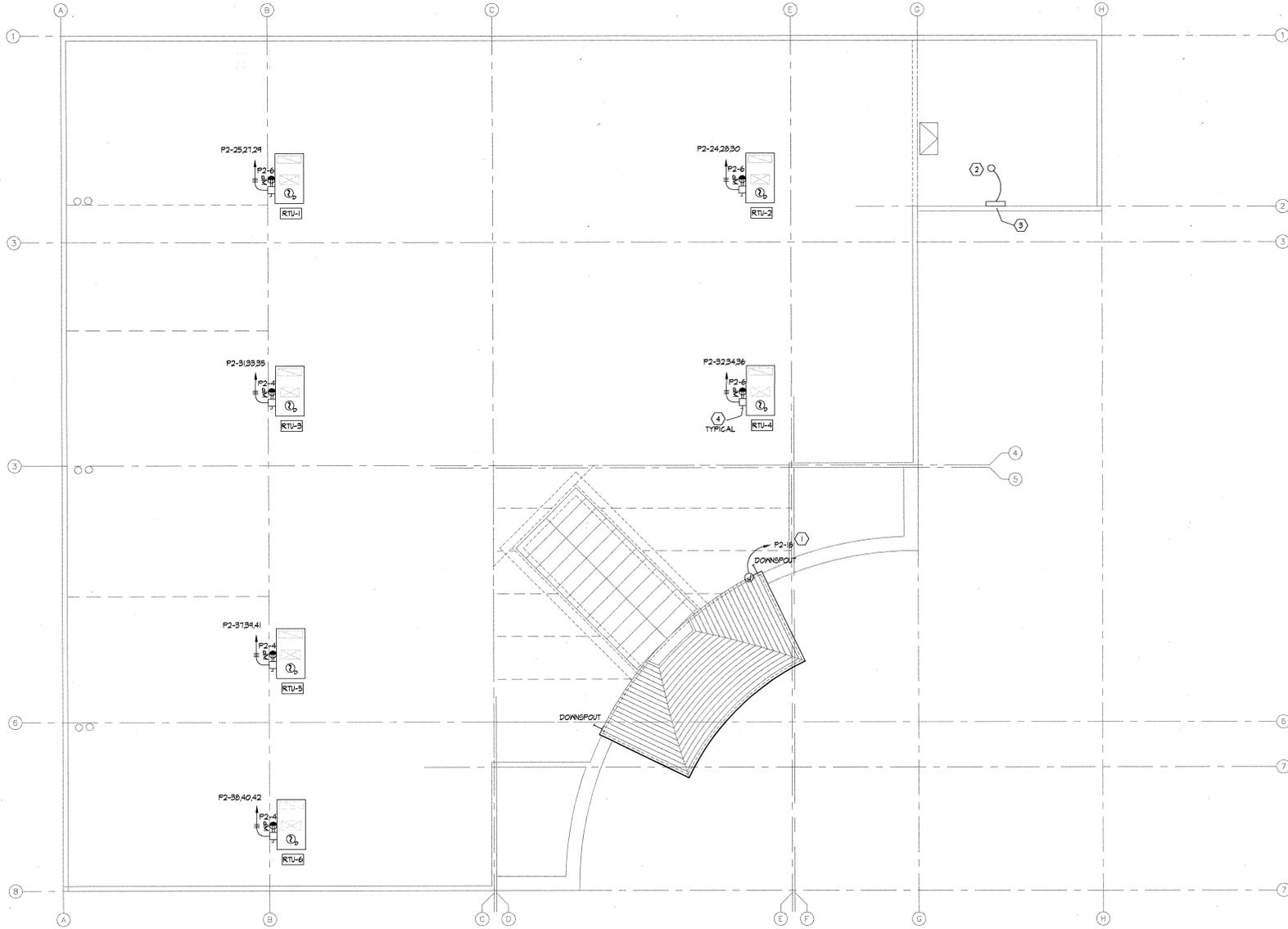
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 DATE: SEPT 2010

PVE Inc.
 Consulting Mechanical Electrical Engineers
 1040 North 2200 West, Suite 100
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 Phone: (801) 359-3158
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E201

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- KEYED NOTES (Ⓢ):**
1. GUTTER MELT CIRCUIT TO PANEL VIA SNOW MELTING SYSTEM CONTROLLER.
 2. GUTTER MELT SYSTEM TEMPERATURE / MOISTURE SENSOR WIRE TO SYSTEM CONTROLLER.
 3. GUTTER MELT SYSTEM CONTROLLER IN DOCK BELOW.
 4. DISCONNECT PROVIDED WITH ROOF TOP UNIT.

A ROOF PLAN - POWER
 E202 SCALE: 1/8" = 1'-0"
 0 4 8 12 16
 NORTH

NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH
 FRANK N MURDOCK JR ■ Architect & Associates
 975 East 100 South - Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220



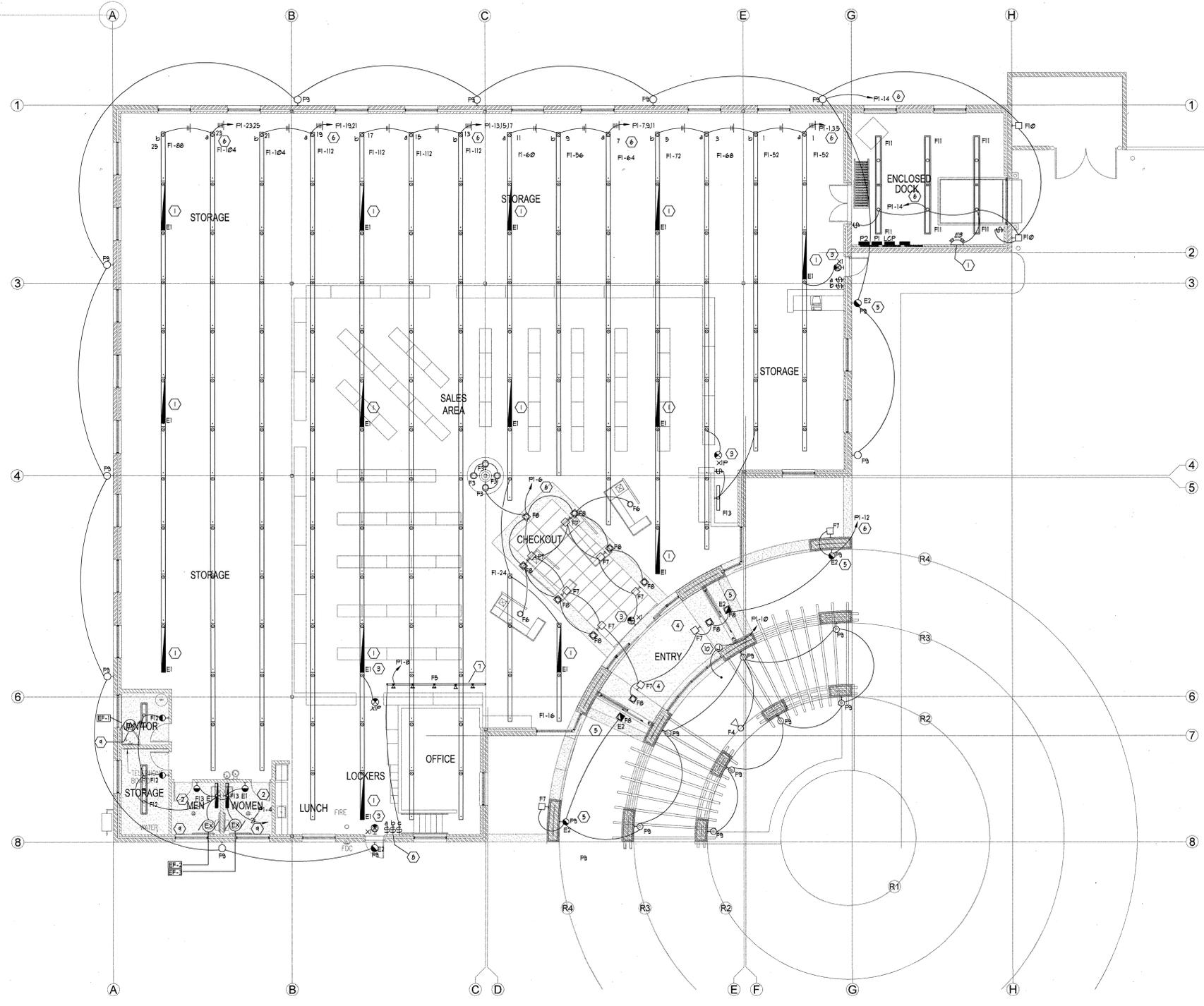
REVISION # DATE:

DFCM PROJECT NO.:
08228.00
 CONST. DOC.
 FILE NAME: N/A
 PLOT SCALE: 1:96
 DRAWN BY: JRC
 CHECKED BY: RKR
 DATE: SEPT 2010

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E202

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- GENERAL NOTES:**
1. ALL WALL MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH INTEGRAL OVERRIDE SWITCH. MOTION SENSOR TO MOUNT IN A STANDARD SWITCH BOX. MOTION SENSOR TO HAVE A FIFTEEN MINUTE TIME DELAY SET AT TEN MINUTES. USE MATT-STOPPER SENSOR SWITCH OR APPROVED EQUAL.
 2. ALL CEILING MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH POWER PACK AS REQUIRED TO CONTROL LIGHTING. MOTION SENSOR TO HAVE A FIFTEEN MINUTE DELAY SET AT TEN MINUTES. CONTRACTOR TO SUBMIT FLOOR PLAN TO MOTION SENSOR SUPPLIER FOR FACTORY TO LOCATE MOTION SENSOR FOR OPTIMAL PERFORMANCE TO AVOID NUISANCE SHUT OFF OF LIGHTING. MANUFACTURERS LAYOUT PLAN TO BE PART OF SUBMITTALS. PROVIDE SUFFICIENT BOX DEPTH AND CORRECT PLASTER RING TO ACCOMMODATE ACTUAL RELAY UNIT AND OCCUPANCY SENSOR INSTALLED. PROVIDE PROPER SEPARATION OF 120 VOLT AND CLASS 2 WIRING AS NECESSARY IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. USE MATT-STOPPER SENSOR SWITCH OR APPROVED EQUAL.
 3. SUB-LETTERS NEXT TO SWITCHES INDICATE SWITCHING ASSIGNMENTS. ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, JUNCTION BOXES, ETC. AS REQUIRED TO EXTEND CIRCUITING FROM WALL BOX AND/OR THE LIGHTING CONTROL PANEL TO FIXTURES FOR SWITCHING ASSIGNMENTS. LOWER CASE LETTERS ON OR NEAR FIXTURES INDICATE CONTROLLING SWITCHES. SWITCH LETTER(S) NOT SHOWN.
 4. ARCHITECTURAL REFLECTED CEILING PLAN TAKES PRECEDENCE OVER THIS PLAN FOR FIXTURE LOCATIONS AND PLACEMENT. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURE MOUNTING HEIGHTS.
 5. ALL CABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED TO THE NEAREST OUTSIDE SURFACE IF THE CABLE OR RACEWAY IS NOT LESS THAN 1/2" FROM THE NEAREST SURFACE OF THE ROOF DECKING.

- KEYED NOTES (ⓐ):**
1. EMERGENCY LIGHT FIXTURE TO BE UNSWITCHED, PROVIDE CONTINUOUS CIRCUIT (SEE EMERGENCY BALLAST OPERATION DETAIL).
 2. EMERGENCY LIGHT FIXTURE TO BE SWITCHED (SEE EMERGENCY BALLAST OPERATION DETAIL).
 3. EXIT SIGN TO BE UNSWITCHED, PROVIDE CONTINUOUS CIRCUIT.
 4. NITE LIGHT FIXTURE TO BE ON CONTINUOUS UNSWITCHED CIRCUIT.
 5. EMERGENCY EGRESS FIXTURE ON BATTERY PACK (SEE EMERGENCY BALLAST OPERATION DETAIL). FIXTURE TO BE CONTROLLED VIA LIGHTING CONTROL PANEL 'RP'.
 6. CIRCUIT VIA LIGHTING CONTROL PANEL 'RP' (SEE LIGHTING CONTROL DETAIL). PROVIDE A SWITCHED AND UNSWITCHED CIRCUIT(S) AS REQUIRED.
 7. CIRCUIT VIA LIGHTING CONTROL PANEL 'RP' (SEE LIGHTING CONTROL DETAIL).
 8. LOW VOLTAGE SWITCH BANK FOR SWITCHES G THRU I (SEE LIGHTING CONTROL DETAIL) AND LIGHT TRACK DIMMER CONTROL.
 9. UNIT LOCATED ON ROOF.
 10. JUNCTION BOX AND CIRCUIT FOR EXTERIOR SIGN. VERIFY EXACT LOCATION WITH PROJECT ARCHITECT PRIOR TO ROUGH-IN. WIRE THROUGH LIGHTING CONTROL PANEL.

A FLOOR PLAN - LIGHTING
 E301 SCALE: 1/8" = 1'-0"
 0' 4' 8' 12' 16'
 NORTH

NEW BOUNTIFUL LIQUOR STORE
 DEPT OF ALCOHOLIC BEVERAGE CONTROL
 550 NORTH 450 WEST, BOUNTIFUL, UTAH
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 975 East 100 South, Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220



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E301

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LIGHT FIXTURE SCHEDULE

Table with columns: FIXTURE NUMBER, FIXTURE MANUFACTURER, FIXTURE CATALOG #, DESCRIPTION, LAMPS, MOUNTING, REMARKS. Lists various lighting fixtures like F1-16, F1-24, F1-52, etc.

SITE LIGHTING FIXTURE SCHEDULE

Table with columns: FIX #, MANUFACTURER, CATALOG #, VOLTAGE, POLE, MOUNTING, TYPE, LAMPS, HEIGHT, REMARKS. Lists site lighting fixtures like SF1, SF2.

LIGHTING CONTROL PANEL

Table with columns: RELAY #, AMP, POLE, SUPPLY, AREA SERVED, LV SWITCH, AUTOMATION SCHEDULE (A, B, C, D, E). Includes Name, Voltage, Location, Mounting, and Automation Schedule details.

EQUIPMENT SCHEDULE

Table with columns: UNIT #, DESCRIPTION, LOAD, VOLT, PHASE, AMP, DISCONNECT, SIZE, FUSE, STARTER SIZE, ENCLOSURE, REMARKS. Lists equipment units like RTU-1, RTU-2, RTU-3, etc.

PANEL SCHEDULE

Table with columns: BREAKER, KEYS, CIRCUIT NAME, FEEDER, CKT. LOAD, LOAD/PHASE (VA), CKT. LOAD, FEEDER, CIRCUIT NAME, KEYS, POLE, AMPS, NO. Includes Voltage, Mounting, Enclosure, Remarks, and a detailed load table.

PANEL SCHEDULE

Table with columns: BREAKER, KEYS, CIRCUIT NAME, FEEDER, CKT. LOAD, LOAD/PHASE (VA), CKT. LOAD, FEEDER, CIRCUIT NAME, KEYS, POLE, AMPS, NO. Includes Voltage, Mounting, Enclosure, Remarks, and a detailed load table.

PANEL SCHEDULE

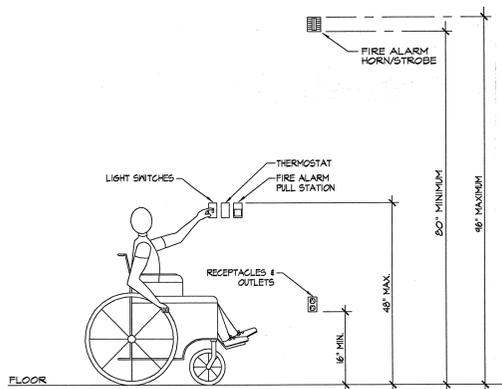
Table with columns: BREAKER, KEYS, CIRCUIT NAME, FEEDER, CKT. LOAD, LOAD/PHASE (VA), CKT. LOAD, FEEDER, CIRCUIT NAME, KEYS, POLE, AMPS, NO. Includes Voltage, Mounting, Enclosure, Remarks, and a detailed load table.

Vertical banner for 'NEW BOUNTIFUL LIQUOR STORE' and 'FRANK N. MURDOCK JR. Architect & Associates'. Includes address, phone, fax, and a professional seal.



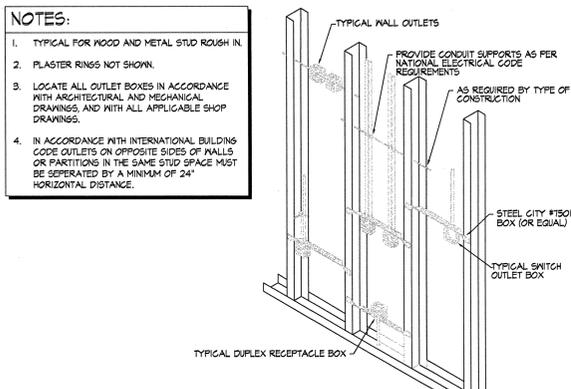
1040 North 2200 West, Suite 100 Salt Lake City, UT 84116 Phone: (801) 359-5138 Fax: (801) 521-4114

E501



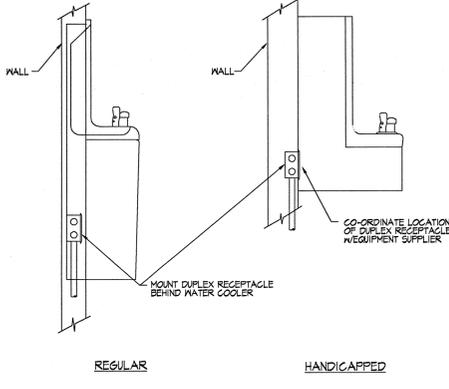
A MOUNTING HEIGHTS DETAIL

E601



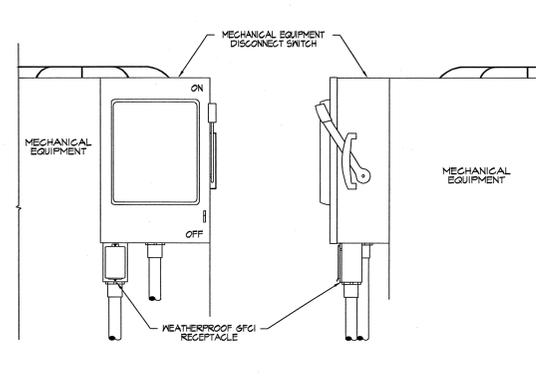
B TYPICAL ROUGH-IN REQUIREMENTS DETAIL

E601



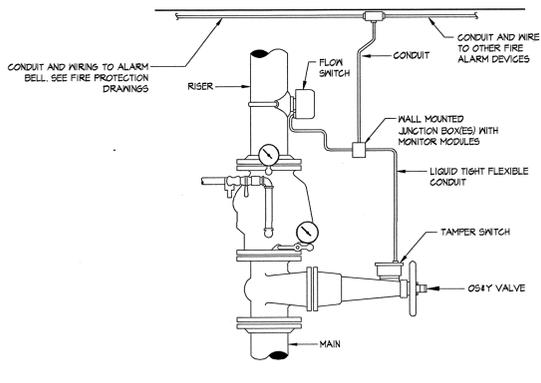
C ELECTRIC WATER COOLER DETAIL

E601



D WEATHER PROOF RECEPTACLE MOUNTING DETAIL

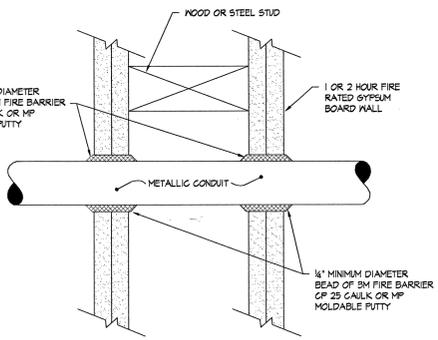
E601



E FIRE SPRINKLER RISER CONNECTION

E601

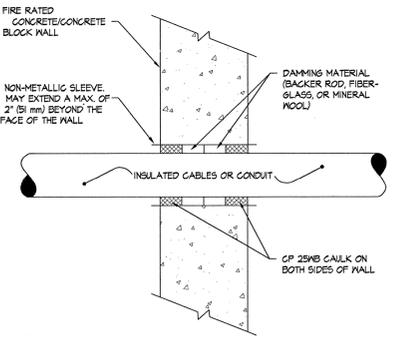
NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNUAL SPACE BETWEEN PIPE AND/OR INSULATION AND OPENINGS. FOLLOW MANUFACTURER'S INSTRUCTIONS.



F FIRE STOP THRU GYPSUM BOARD WALL

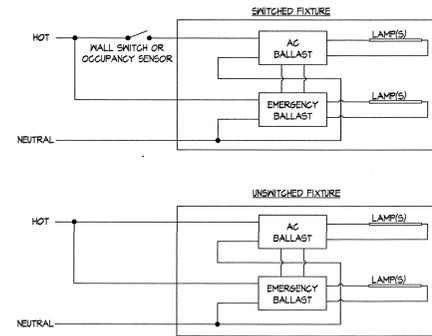
E601

NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNUAL SPACE BETWEEN PIPE AND/OR INSULATION AND OPENINGS. FOLLOW MANUFACTURER'S INSTRUCTIONS.



G FIRESTOP THRU CONCRETE/MASONRY WALL

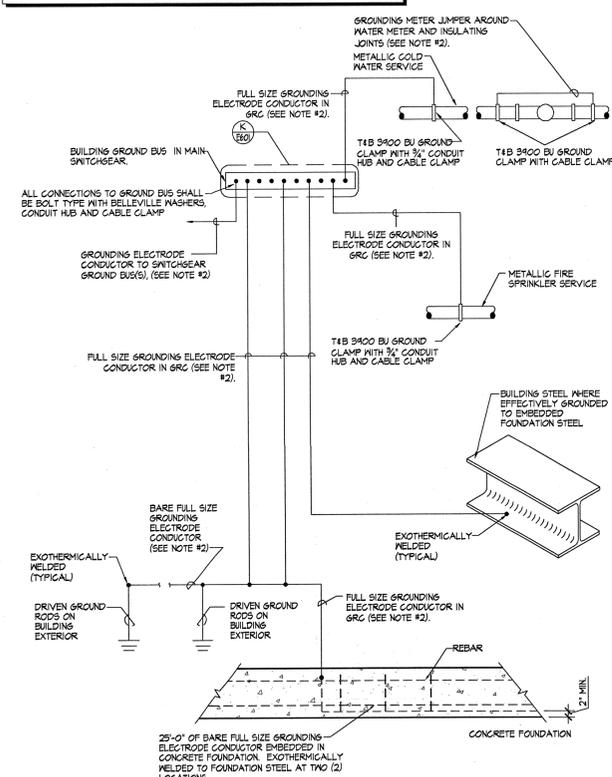
E601



H EMERGENCY BALLAST OPERATION DETAIL

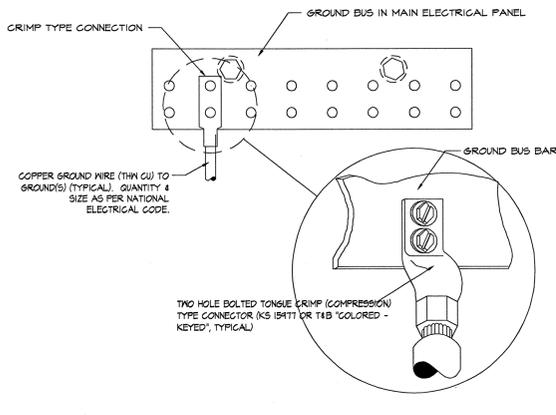
E601

NOTES:
1. PROVIDE AND INSTALL ALL GROUNDING MEANS INDICATED. ELECTRICAL CONTRACTOR TO COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND PROVIDE AND INSTALL ALL GROUNDING METHODS THAT ARE AVAILABLE FOR THIS PROJECT.
2. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLATION AND MATERIALS.



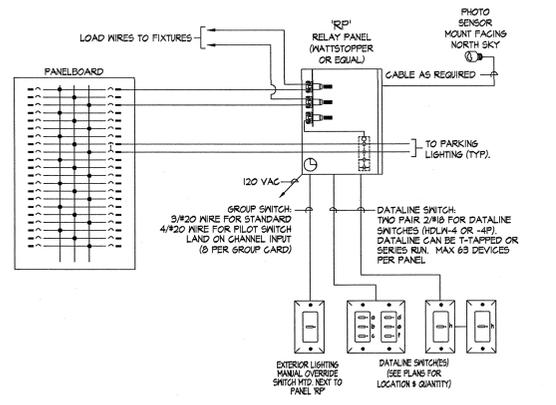
J SERVICE GROUNDING DETAIL

E601



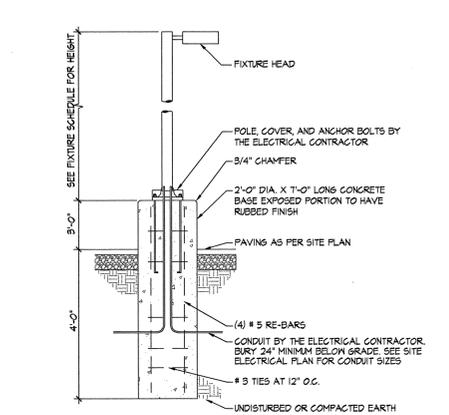
K SERVICE BUS GROUNDING DETAIL

E601



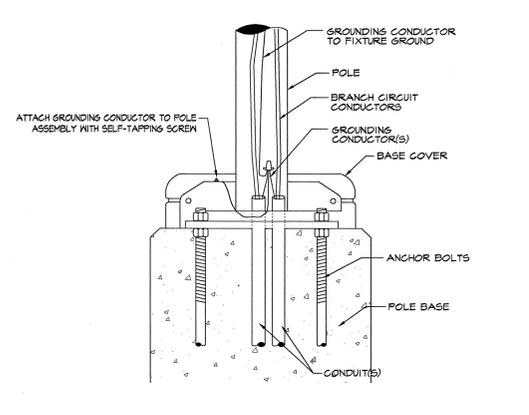
N LIGHTING CONTROL PANEL DETAIL

E601



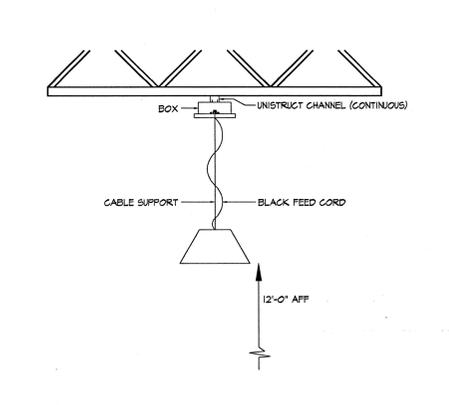
L POLE BASE DETAIL

E601



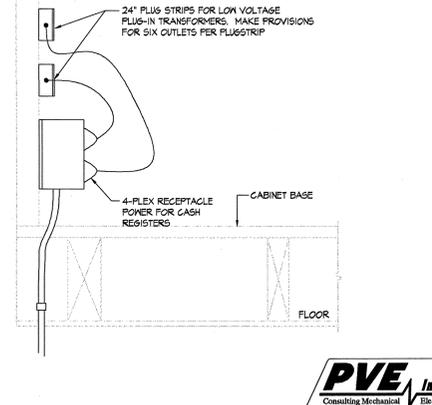
M ENLARGED POLE BASE DETAIL

E601



P FIXTURE MOUNTING DETAIL

E6 2



Q POINT OF SALE UNDER COUNTER DETAIL

E6 2

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ELECTRICAL DETAILS

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DATE: SEPT 2010

E601

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