State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

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

NEW CEDAR CITY, UTAH LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
PROVIDENCE CENTER DRIVE, CEDAR CITY, UTAH

DFCM PROJECT NO. 08227030

MARCH 2009

CONSTRUCTION DOCUMENTS

SYMBOLS AND MATERIAL LEGEND

PLAN AND SECTION INDICATIONS

SHEET TAGS

ABBREVIATIONS

@	AT	JAN	JANITOR
ADJ.	ADJUSTABLE	JT.	JOINT
ADJ.	ADJACENT	LAM	LAMINATE
A.B.	ANCHOR BOLT	MAS.	MASONRY
A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
ALT.	ALTERNATE	MECH.	MECHANICAL
ALUM./AL.	ALUMINUM	MFR.	MANUFACTURER
BRD./BD.	BOARD	MANUF.	MANUFACTURER
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK (BLOCKING)	M.O.	MASONRY OPENING
B.M.	BENCH MARK	MTL.	METAL
BOT./BTTM.	BOTTOM	N.I.C.	NOT IN CONTRACT
CAB.	CABINET	NO.	NUMBER
C.O.	CLEAN OUT	O.C.	ON CENTER
C.J.	CONTROL JOINT	O.D.	OUTSIDE DIAMETER
CL	CENTER LINE	O.H.	OVER HEAD
CLG.	CEILING	OPNG.	OPENING
C.M.U.	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	OV.	OVER
CONC.	CONCRETE	P.LAM	PLASTIC LAMINATE
CONTD.	CONTINUED	P.L.	PROPERTY LINE
CONST.	CONSTRUCTION	PL.	PLATE
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CONTR.	CONTRACTOR	PLY.	PLYWOOD
COTG	CLEAN OUT TO GRADE	PNTD.	PAINTED
Ø/DIA.	DIAMETER	PTD.	PAINTED
DET.	DETAIL	PVMT.	PAVEMENT
D.F.	DRINKING FOUNTAIN	Q.T.	QUARRY TILE
DN.	DOWN	R./R	RADIUS
DWGS.	DRAWINGS	RCP	REINFORCED CONCRETE PIPE
DRAWGS	DRAWINGS		
EA.	EACH	R.D.	ROOF DRAIN
E.J.	EXPANSION JOINT	REINF.	REINFORCEMENT
ELEV./EL.	ELEVATION	REQ.	REQUIRED
ELEV.	ELEVATOR	RM.	ROOM
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
ENL.	ENLARGED	SECT.	SECTION
EQ.	EQUAL	SEC.	SECTION
EQUIP.	EQUIPMENT	SHT.	SHEET
EWC.	ELECTRIC WATER COOLER	SIM.	SIMILAR
EXIST.	EXISTING	SQ./SQ	SQUARE
EXTG.	EXISTING	SPEC.	SPECIFICATION
EXP.	EXPANSION	S.S.	STAINLESS STEEL
EXT.	EXTERIOR	S.T.D.	STANDARD
F.D.	FLOOR DRAIN	STL.	STEEL
F.E.C.	FIRE EXTINGUISHER CABINET	STOR.	STORAGE
		STRUCT.	STRUCTURAL
F.E.	FIRE EXTINGUISHER	STRUC.	STRUCTURAL
FIN.	FINISH	SUSP.	SUSPENDED
F.F.	FINISH FLOOR	T.B.	TACK BOARD
F.H.	FIRE HYDRANT	T.O.	TOP OF
FL.	FLOOR	T.O.A.	TOP OF ASPHALT
FT.	FOOT	T.O.B.	TOP OF BEAM
F.V.	FIELD VERIFY	T.O.C.	TOP OF CONCRETE
GA.	GAUGE	T.O.C.	TOP OF CURB
GALV.	GALVANIZED	T.O.M.	TOP OF MASONRY
G.I./GALV.	GALVANIZED IRON	T.O.S.	TOP OF SLAB
G.B.	GYPSUM BOARD	T.O.W.	TOP OF WALL
GYP. BRD.	GYPSUM BOARD	TYP.	TYPICAL
H.B.	HOSE BIBB	U.N.O.	UNLESS NOTED OTHERWISE
H.C.	HANDICAPPED		
HD.	HEAD	V.C.T.	VINYL COMPOSITION TILE
H.M.	HOLLOW METAL	V.T.	VINYL TILE
HOL.MTL.	HOLLOW METAL	W/	WITH
HR.	HOUR	W.W.M.	WELDED WIRE MESH
HT.	HEIGHT	W.W.F.	WELDED WIRE FABRIC
I.D.	INSIDE DIAMETER	WD.	WOOD
IN.	INCH	WIN.	WINDOW
INCMG	INCOMING	VEST.	VESTIBULE
INFO.	INFORMATION	VDT.	VIDEO DISPLAY TERMINAL
INSUL.	INSULATION		
INT.	INTERIOR		
INV.	INVERT		

CODE CRITERIA

CODE ANALYSIS

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2006	National Electrical Code	2006
International Mechanical Code	2006	Uniform Code for Building Conservation	2006
International Plumbing Code	2006		
International Fire Code	2006	ADA Accessibility Guildelines	CURRENT
International Energy Conservation Code	2006		

A. Occupancy and Group: M S-1

Change in Use: Yes ____ No X Mixed Occupancy: Yes X No ____
Special Use and Occupancy (e.g. High Rise, Covered Mall): ____

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):
I/A I/B II/A II/B III/A III/B IV/HT V/A (V/B)

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: X

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

G: Number of Stories: 1 Building Height: 1

H: Actual Area per Floor (square feet): 13,960 SF

I: Tabular Area: 9000 SQ FT

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\quad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

a) $40140 = 9000 + \left[\frac{9000 \times .46}{100}\right]\left[\frac{9000 \times 3}{100}\right]$ $\quad .46 = 100\left[\frac{365}{510} - 0.25\right]\frac{30}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$ $\quad \frac{6225 \text{ (GROUP M)}}{40140} \leq 1$ $\quad \frac{6186 \text{ (GROUP S-1)}}{40140} \leq 1$

c) Total Allowable Area for:
1) One Story: >40140
2) Two Story: $A_a(2)$____
3) Three Story: $A_a(3)$____

d) Unlimited Area Building: Yes ____ No ____ Code Section: ____

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

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

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: 1 Service Sinks: 1

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - 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) Performance Based Criteria. d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet. f) Exterior and Interior Accessibility Route.
g) 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 60 DAYS OF CONTRACT AWARD
6. SYNTHETIC STUCCO	DUE WITHIN 60 DAYS OF CONTRACT AWARD
7. SYNTHETIC STONE	DUE WITHIN 60 DAYS OF CONTRACT AWARD

DRAWINGS

COVER SHEETS

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

SITE DEVELOPMENT

	ALTA SURVEY
AS101	SITE PLAN AND GRADING PLAN
AS102	SITE GRADING PLAN
AS103	SITE UTILITY PLAN
AS103.1	SITE UTILITY PLAN–NEW WATER MAIN LINE
AS501	SITE DETAILS
LS101	LANDSCAPING PLAN

ARCHITECTURAL

A101	FLOOR PLAN AND ENLARGED 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 MISCELLANEOUS DETAILS
A201	EAST & WEST EXTERIOR ELEVATIONS & BUILDING SECTION
A202	NORTH & SOUTH EXTERIOR ELEVATIONS & BUILDING SECTION
A301	WALL SECTIONS
A302	WALL SECTIONS
A303	WALL SECTIONS
A304	WALL SECTIONS
A305	WALL SECTIONS
A306	WALL SECTIONS
A307	WALL SECTIONS
A308	WALL SECTIONS
A309	WALL SECTIONS
A501	MISCELLANEOUS DETAILS
A502	MISCELLANEOUS DETAILS
A601	DOOR, WINDOW AND FINISH SCHEDULES

STRUCTURAL

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

MECHANICAL

M0.1	MECHANICAL SCHEDULES & NOTES
M1.1	ROOF PLAN
M2.1	PLUMBING FLOOR PLAN
M2.2	HVAC 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	SITE PLAN – ELECTRICAL
E102	SITE PLAN – LIGHTING CALCULATIONS
E201	FLOOR PLAN – POWER & SYSTEMS
E301	FLOOR PLAN – LIGHTING
E401	ELECTRICAL RISER DIAGRAMS
E501	ELECTRICAL SCHEDULES
E601	ELECTRICAL DETAILS

TYPICAL HANDICAP TOILET ROOM MOUNTING STANDARDS

TYPICAL HANDICAP URINAL CLEARANCES

1. PAPER TOWELS
2. SOAP DISPENSER
3. SANITARY NAPKIN DISPENSER
4. HAND DRYER
5. ROLL TOWEL
6. TRASH RECEPTACLE
7. NAPKIN DISPOSAL

MISCELLANEOUS MOUNTING HEIGHTS

ELEVATION

ELEVATION

PLAN

TYPICAL HANDICAP LAVATORY CLEARANCES

PLAN

TYPICAL HANDICAP TOILET ROOM CLEARANCES

TYPICAL (NON-HANDICAPPED) TOILET ROOM MOUNTING STANDARDS

ELEVATION

WALL MOUNTED W.C.

ELEVATION

FLOOR MOUNTED WITH COMPARTMENT

ELEVATION

URINAL STALL

ELEVATION

COUNTERTOP LAV

ELEVATION

WALL MTD LAV

TYPICAL MISCELLANEOUS MOUNTING STANDARDS

ITEM DESIGNATION
1. TYPICAL SWITCH HEIGHT
2. TYPICAL OUTLET HEIGHT
3. TYPICAL OUTLET HEIGHT AT COUNTERTOP
4. TYPICAL G.F.I. OUTLET HEIGHT AT LAVATORY
5. TYPICAL OUTLET HEIGHT FOR LAUNDRY ROOM AND UTILITY ROOM
6. TYPICAL BATH LIGHT FIXTURE HEIGHT

ELECTRICAL OUTLETS AND SWITCHES

ITEM DESIGNATION
1. PAPER CUP DISPENSER
2. ELECTRIC SWITCH/THERMOSTAT/FIRE ALARM
3. TELEPHONE
4. COUNTER TOP/DESK
5. ELEVATOR CONTROLS
6. FIRE EXTINGUISHER

MISCELLANEOUS MOUNTING HEIGHTS

ITEM DESIGNATION
1. DEADLOCK AND STRIKE
2. PUSH AND PULL LATCHES, ARM PULL, (LOWER BASE), PULL PLATE CENTER LINE
3. BAR AND PULL CENTER LINE
4. CENTER LINE STRIKE, KNOB, LOCKS, HANDLE SETS, ROLLER LATCHES, EXIT BOLTS LOCKS

DOORS

24" CLEARANCE
PROVIDE 24" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PULLS TOWARDS YOU.

18" CLEARANCE
PROVIDE 18" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PUSHES AWAY FROM YOU.

ELECTRIC WATER COOLERS

CLOSETS

NEW CEDAR CITY LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY 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

SCHEDULE OF DRAWINGS, MOUNTING STANDARDS, CODE REVIEW

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-G002
PLOT SCALE: 1:1
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

G
002

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:

In-plant 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	☐ Continuous		
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	
Posttentsioned 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			
Clean 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 prisms	☒ 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

NEW CEDAR CITY LIQUOR STORE
DEPT. OF ALCHOLIC BEVERAGE CONTROL
CEDAR CITY, UT

SPECIAL INSPECTION REQUIREMENTS

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

STATE OF UTAH FRANK N. MURDOCK 172408 REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08227030
CONSTRUCTION DOCS
FILE NAME: G003.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 31, 2009

G003

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A.L.T.A/ A.C.S.M. LAND TITLE SURVEY FOR:
PROVIDENCE QUANTUM PARTNERS L.C.

LOCATED IN THE SE 1/4 OF SECTION 21 AND THE SW 1/4 OF SECTION 22, T36S, R11W, S.L.B.&M.
CEDAR CITY, IRON COUNTY, UTAH

PROJECT LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- SECTION LINE
- EASEMENT LINE
- EXISTING POWER
- EXISTING GAS LINE
- EXISTING FENCE LINE
- EXISTING SEWER LINE
- U.D.O.T. R-O-W MONUMENT
- SECTION CORNER AS DESCRIBED
- SET INSITE ENG R/C CAP P.L.S. #4938769 OR #6077910.
- FOUND BBE R/C UNLESS OTHERWISE NOTED.

N

40 0 40

SCALE IN FEET

NARRATIVE

THIS SURVEY WAS DONE AT THE REQUEST OF PROVIDENCE QUANTUM PARTNERS L.C. TO PERFORM AN A.L.T.A./A.C.S.M. SURVEY.

THE BASIS OF BEARINGS IS THE CEDAR CITY GPS COORDINATE CONTROL NETWORK. ALL COORDINATES SHOWN REFLECT THIS NETWORK.

REFERENCES:

SEE ROAD DEDICATION PLAT OF ROYAL HUNTE DR., CROSS HOLLOW ROAD, AND PROVIDENCE CENTER DRIVE RECORDED AUGUST 12, 1999, AS ENTRY #411926 IN BOOK 689 ON PAGE 741, OFFICIAL IRON COUNTY RECORDS.

MINOR LOT SUBDIVISION PREPARED BY BULLOCH BROTHERS ENGINEERING FOR PACIFIC LAND DESIGN, PLAT #1199.

MINOR LOT SUBDIVISION PREPARED BY BULLOCH BROTHERS ENGINEERING FOR QUANTUM/UDOT, PLAT #1195.

MINOR LOT SUBDIVISION PREPARED BY BULLOCH BROTHERS ENGINEERING FOR PROVIDENCE CENTER L.C., PLAT # 1203.

MINOR LOT SUBDIVISION PREPARED BY INSITE ENGINEERING FOR PROVIDENCE CENTER L.C., PLAT # 1597.

MINOR LOT SUBDIVISION PREPARED BY INSITE ENGINEERING FOR PROVIDENCE CENTER L.C., PLAT # 2171.

UTILITY INFORMATION

UTILITY STATEMENT:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

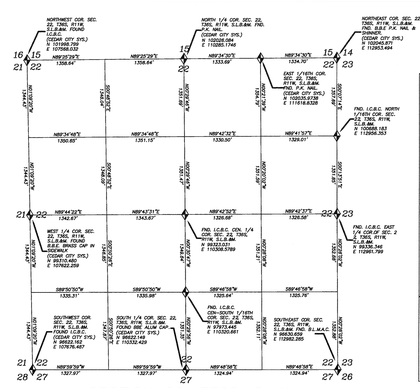
UTILITY CONTACT INFORMATION:

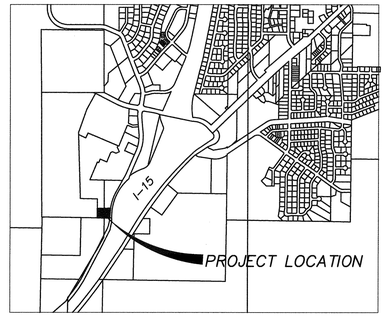
ROCKY MOUNTAIN POWER CO.
DALE HIRSHI
2217 KITTYHAWK DRIVE
CEDAR CITY, UTAH 84720
(435) 865-3303

QWEST
RANDY WARNER
103 WEST CENTER
CEDAR CITY, UTAH 84720
(435) 586-2470

QUESTAR GAS
JIM MCPHIE
946 PRODUCTION ROAD
CEDAR CITY, UTAH 84720
(435) 865-5255

BRESNAN CABLEVISION
DWAYNE DAVIS
98 WEST HARDING AVENUE
CEDAR CITY, UTAH 84720
(435) 586-7655





VICINITY PLAN

SURVEYOR'S CERTIFICATE

DATE: JUNE 26, 2008

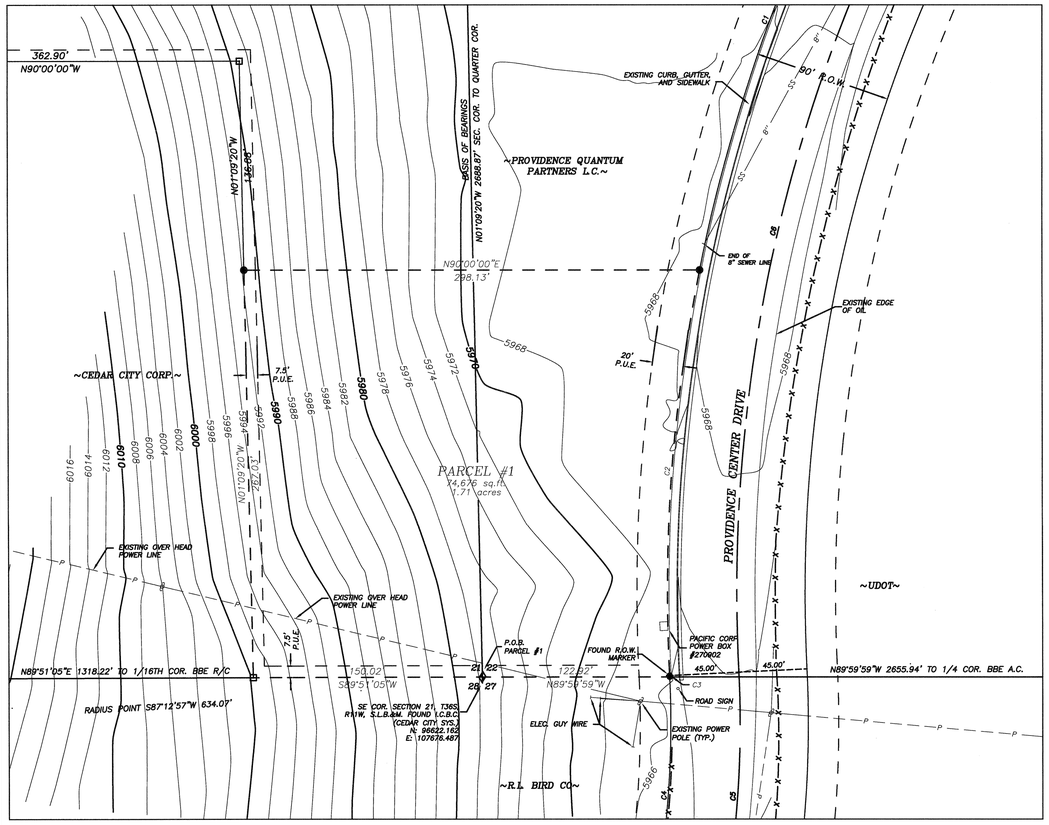
THIS SURVEY IS MADE FOR THE BENEFIT OF:

STATE OF UTAH
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 STATE OFFICE BUILDING, SALT LAKE CITY, UTAH 84114

TITLE INSURER: INVESTOR QUALITY TITLE, LLC
856 S. SAGE DR. SUITE #250 CEDAR CITY, UTAH 84720
PHONE (435) 865-7663

THIS IS TO CERTIFY THAT THIS PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF UTAH, THE RELATIVE POSITION ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

C. SCOTT BISHOP PLS #6077910 — DATE



PARCEL #1 LEGAL DESCRIPTION:

BEGINNING AT THE SOUTHEAST CORNER OF SECTION 21, TOWNSHIP 36 SOUTH, RANGE 11 WEST, OF THE SALT LAKE BASE AND MERIDIAN; RUNNING THENCE S89°51'05"W ALONG THE SOUTH LINE OF SAID SECTION 21, 150.02 FEET; THENCE DEPARTING SAID SECTION LINE AND RUNNING N01°09'20"W 267.03 FEET; THENCE N90°00'00"E, 298.13 FEET TO A POINT LOCATED ON THE WESTERLY RIGHT-OF-WAY LINE OF PROVIDENCE CENTER DRIVE. SAID POINT ALSO BEING ON A NON-TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 1,084.93 FEET, AND A CENTRAL ANGLE OF 14°06'26". (RADIUS POINT BEARS S78°40'37"E); THENCE SOUTHERLY ALONG SAID CURVE AND ALONG SAID RIGHT-OF-WAY LINE 267.13 FEET TO A POINT OF REVERSE CURVATURE TO THE RIGHT HAVING A RADIUS OF 634.07 FEET AND A CENTRAL ANGLE OF 00°04'43"; THENCE SOUTHERLY ALONG SAID CURVE, 0.87 FEET TO A POINT LOCATED ON THE SECTION LINE; THENCE DEPARTING SAID RIGHT-OF-WAY LINE AND RUNNING N89°59'59"W ALONG THE SECTION LINE, 122.92 FEET TO THE POINT OF BEGINNING. CONTAINING 1.71 ACRES.

SUBJECT TO A 7.50 FOOT PUBLIC UTILITY EASEMENT ON THE WEST AND SOUTH PROPERTY LINES OF SAID PARCEL.

SUBJECT TO A 20.00 FOOT PUBLIC UTILITY EASEMENT ON THE EAST PROPERTY LINE OF SAID PARCEL ADJACENT TO PROVIDENCE CENTER DRIVE.

GENERAL SURVEY NOTES

ITEMS 1-6 OF THESE NOTES ARE A REFERENCE FROM SCHEDULE B - SECTION 2 OF TITLE REPORT COMMITMENT NO. 20235 DATED JUNE 18, 2008 AT 8:00 A.M. ALL OTHER ITEMS ARE FOR GENERAL INFORMATION.

1. SCHEDULE B SECTION 2 EXCEPTION #8 FROM TITLE REPORT NON-PLOTTABLE.

THE EFFECTS OF EASEMENTS, RESTRICTIONS, COVENANTS, CONDITIONS, NOTES, BUILDING SET-BACK LINES, AND RIGHTS OF WAY OF ROADS, DITCHES, CANALS, STREAMS, RIVERS, TELEPHONE AND TRANSMISSIONS LINES, DRAINAGE, UTILITIES, OR OTHER INCIDENTAL PURPOSES, OVER UNDER OR ACROSS SAID PROPERTY, WHICH ARE OF RECORD OR WHICH MAY BE ASCERTAINED BY AN INSPECTION OR ACCURATE SURVEY, INCLUDING WITHOUT LIMITATION ANY EASEMENTS, NOTES, RESTRICTIONS, BUILDING SITE REQUIREMENTS, SETBACK LINES, OR RIGHTS OF WAY PROVIDED FOR IN THE OFFICIAL PLAT MAP, IF ANY.

2. SCHEDULE B SECTION 2 EXCEPTION #9 FROM TITLE REPORT NON-PLOTTABLE.

ALL EXISTING ROADS, STREETS, ALLEYS, DITCHES, RESERVOIRS, UTILITIES, CANALS, PIPELINES, POWER POLES, TELEPHONE, SEWER, GAS AND WATER LINES AND RIGHTS OF WAY AND EASEMENTS THEREOF.

3. SCHEDULE B SECTION 2 EXCEPTION #10 FROM TITLE REPORT NON-PLOTTABLE.

ANY AND ALL OUTSTANDING OIL AND GAS, MINING AND MINERALS RIGHTS, ECT. TOGETHER WITH THE RIGHT OF THE PROPRIETOR OF A VEIN OR LODE TO EXTRACT HIS ORE THEREFROM SHOULD THE SAME BE FOUND TO PENETRATE OR INTERSECT THE RIGHT OF INGRESS AND EGRESS FOR THE USE OF SAID RIGHTS. THE PRESENT OWNERSHIP OF SAID INTERESTS AND MATTERS AFFECTING SAID INTEREST ARE NOT SHOWN HEREIN.

4. SCHEDULE B SECTION 2 EXCEPTION #11 FROM TITLE REPORT NON-PLOTTABLE.

DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS DATED JANUARY 26, 2004 AND RECORDED JANUARY 28, 2004, IN BOOK 917, AT PAGES 456-462 AS ENTRY NO. 478410.

5. SCHEDULE B SECTION 2 EXCEPTION #12 FROM TITLE REPORT NON-PLOTTABLE.

DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS DATED SEPTEMBER 10, 2004 AND RECORDED SEPTEMBER 15, 2004, IN BOOK 944, AT PAGES 160-167 AS ENTRY NO. 490171.

6. SCHEDULE B SECTION 2 EXCEPTION #13 FROM TITLE REPORT NON-PLOTTABLE.

RESOLUTION NO. 99-0616-1 RECORDED JUNE 21, 1999 AS ENTRY NO. 409912, IN BOOK 684 AT PAGE 733. TO CONSTRUCT ADDITIONAL IMPROVEMENTS WITHIN THE CEDAR CITY, UTAH SPECIAL IMPROVEMENT DISTRICT NO. 98-1, TOGETHER WITH ANY CHARGES AND ASSESSMENTS LEVIED THEREBY.

7. THE TRACK OF LAND IS LOCATED IN ZONE CC-1 (CENTRAL COMMERCIAL)

8. THE PROPERTY ON THIS PLAT IS LOCATED IN FLOOD ZONE C AS SHOWN ON FEMA (IRON COUNTY) PANEL #490073-0900B, EFFECTIVE DATE JULY 17, 1986.

9. THE WATER PRESSURE IN THIS AREA IS ± 45 PSI (CALCULATED) WITH MINIMUM COVER OF 3 FEET.

10. ALL ROADS ARE UNDER THE JURISDICTION OF CEDAR CITY CORPORATION.

11. THERE ARE NO OBSERVABLE SIGNS OF WETLANDS ON THE PROJECT SITE.

12. THERE ARE EXISTING TREES ON THE PROJECT SITE.

13. THERE IS NO EVIDENCE OF HAZARDOUS TOXIC SUBSTANCES ON THE PROJECT SITE.

14. THERE IS NO EVIDENCE OF RAILROAD TRACKS SIDINGS ON THE PROJECT SITE.

15. VERTICAL DATUM NGS BENCHMARK = D-376 WHICH IS A STAINLESS STEEL POST IN A RING AND LID MONUMENT LOCATED AT THE NORTHEAST QUAD OF THE INTERSECTION OF MAIN STREET AND OLD HIGHWAY 91 AT THE SOUTH INTERCHANGE. ELEV.=5998.98 NAVD 1929. ADD +3.46' FOR NAVD 1988. NON-PLOTTABLE

16. HORIZONTAL DATUM = CEDAR CITY GPS COORDINATE CONTROL NETWORK.

17. THERE ARE NO NEARBY WELLS OR BODIES OF WATER ON THE PROJECT SITE.

PLAT NO. :
FILE DATE :
RECEIPT NO. :

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REVISIONS

NO	DESCRIPTION	DATE	BY

InSite Engineering, P.C.
Civil Engineers - Land Surveyors - Land Planners
1883 N. Royal Hunte Dr., Suite 200
Cedar City, Utah 84721
phone: (435) 867-4565
fax: (435) 867-4459

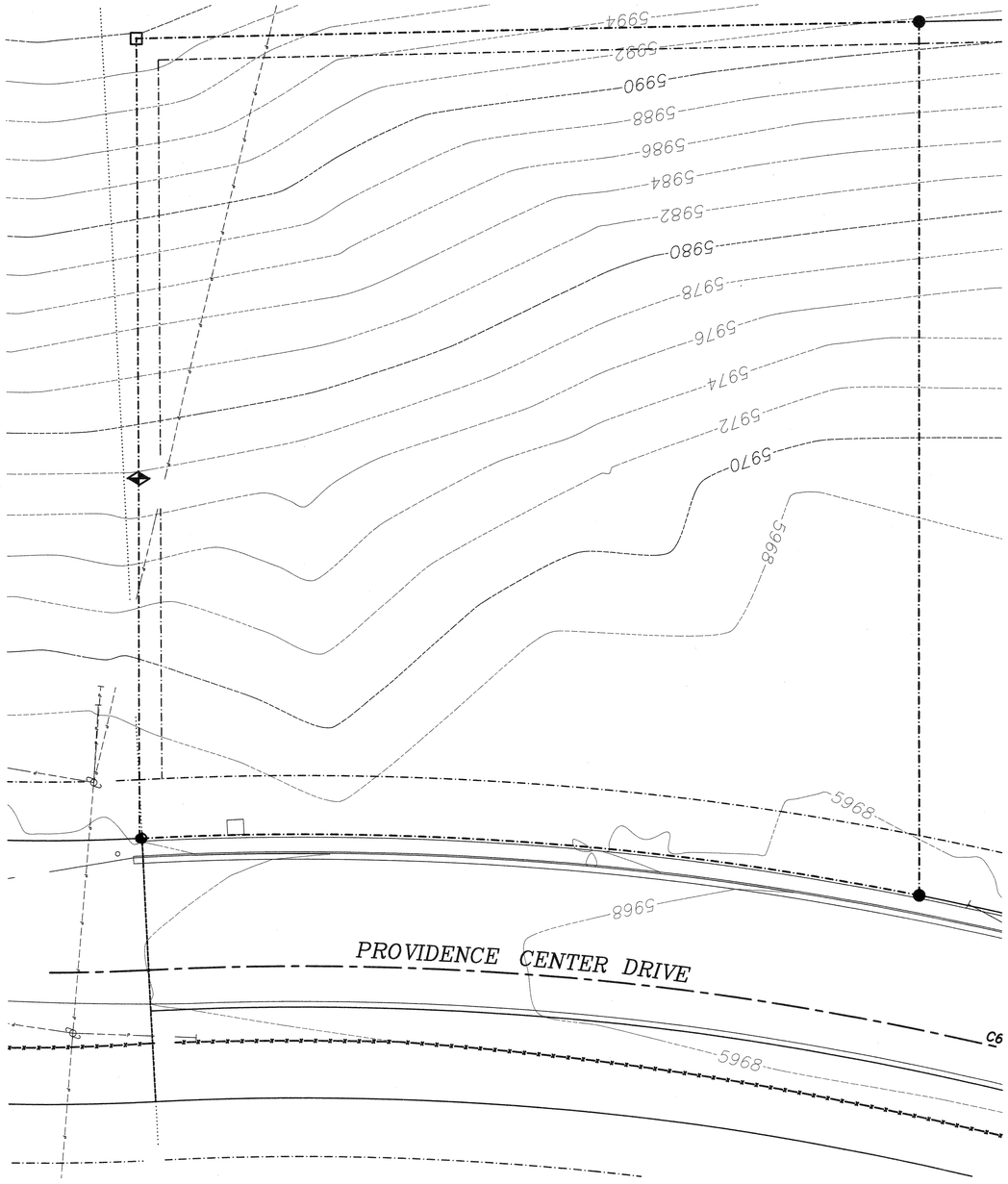
A.L.T.A./A.C.S.M. LAND TITLE SURVEY FOR:
PROVIDENCE QUANTUM PARTNERS L.C.
LOCATED IN THE SE 1/4 OF SECTION 21 AND SW 1/4 OF SECTION 22, T36S, R11W, S.L.B.&M.
CEDAR CITY, IRON COUNTY, UTAH

DATE: 6-26-2008
SCALE: 1"=40'

JOB NO.
2509

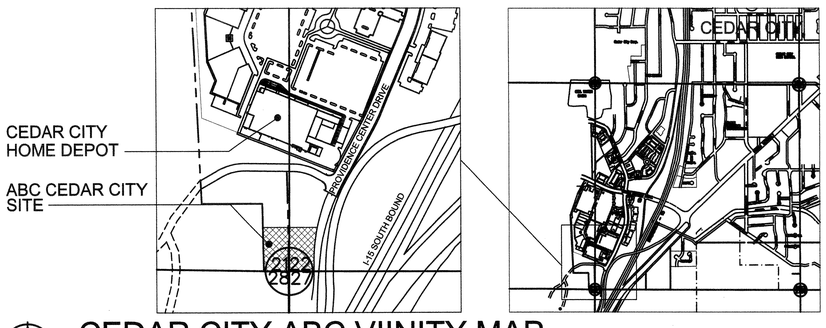
SHEET NO:
1 OF 1

2509 PROVIDENCE POP ALTA

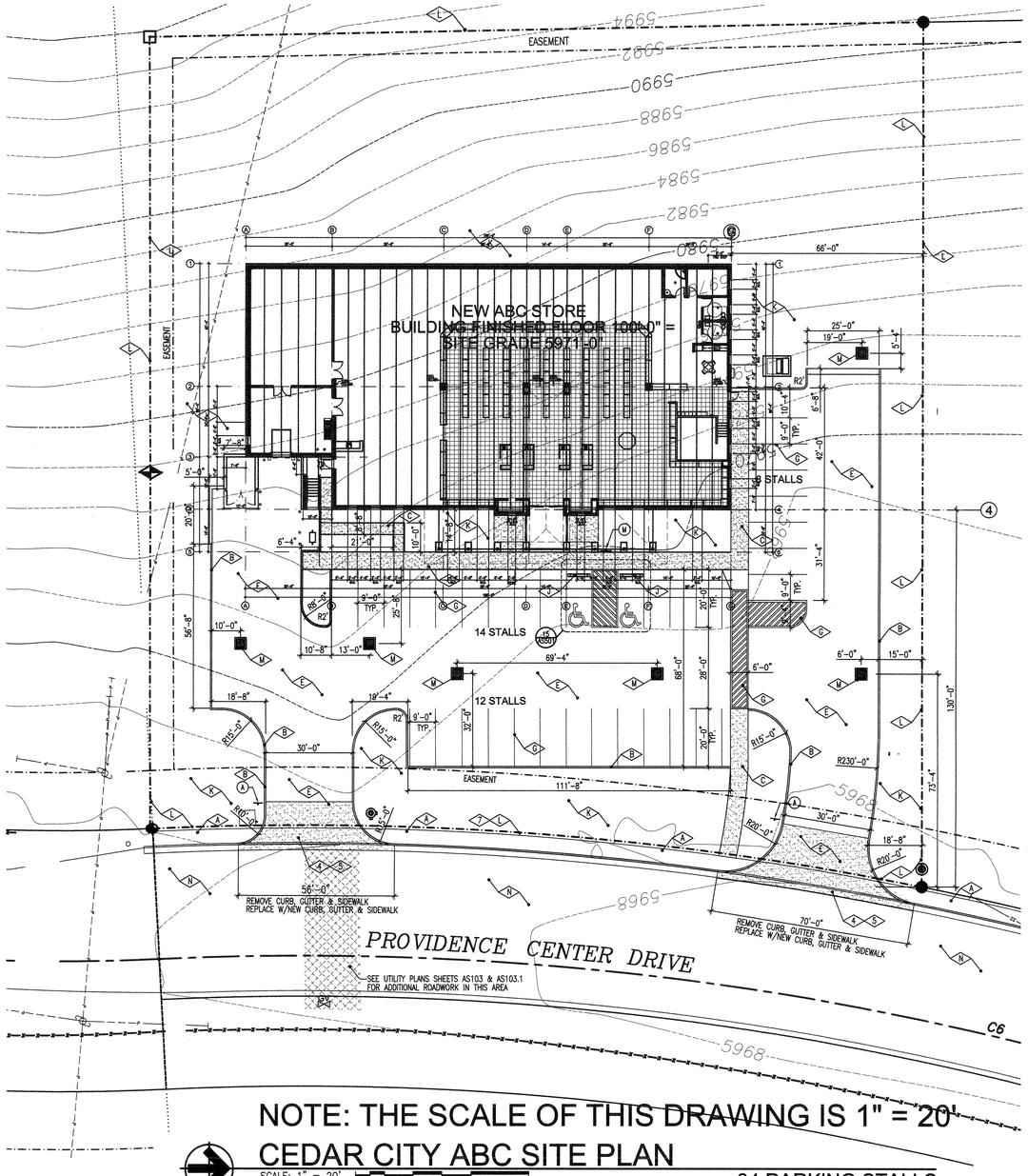


CEDAR CITY ABC ALTA SURVEY

SCALE: 1" = 20' 0 10' 20' 30' 40' 60'



CEDAR CITY ABC VIINITY MAP



NOTE: THE SCALE OF THIS DRAWING IS 1" = 20'

CEDAR CITY ABC SITE PLAN

SCALE: 1" = 20' 0 10' 20' 30' 40' 60'

34 PARKING STALLS

KEY NOTES

- A — MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING RETAINING WALLS, FENCES, STORM DRAIN BASIN AND CURBS AND GUTTERS.
- B — NEW CONCRETE CURB, SEE DETAIL 7/AS501.
- C — NEW 4" THICK CONCRETE SIDEWALK. SEE DETAILS 11, 12 AND 13 ON SHEET AS501. 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/AS501.
  EXPANSION JOINT IN CONCRETE SIDEWALK @ 20'-0" O.C. – SEE DETAIL 13/AS501.
- D — NEW ASPHALT CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- E — NEW CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- F — NEW CONCRETE TRANSFORMER PAD
- G — NEW PARKING STRIPING SEE DETAIL 3/AS501
- H — NEW TINTED CMU WALL.
- J — NEW CONCRETE WHEEL STOP.
- K — NEW LANDSCAPE AREA, SEE SHEET LS-101
- L — PROPERTY LINE
- M — NEW CATCH BASIN, REFER TO SITE DRAINAGE PLAN
- N — EXISTING ASPHALT ROADWAY. MAINTAIN AND PROTECT. KEEP CLEAR OF MUD AND DEBRIS FROM WORK UNDER THIS CONTRACT

REFERENCE NOTES

- 1 — MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING LANDSCAPING, SIDEWALKS, STORM DRAIN, ASPHALT AND CURBS AND GUTTERS. MAINTAIN AND PROTECT EXISTING LANDSCAPING TO REMAIN DURING CONSTRUCTION.
- 2 — 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.
- 3 — REMOVE AND PROPERLY DISPOSE OF EXISTING LANDSCAPING INCLUDING ALL TREES AND SHRUBS ON SITE. SEE SOILS REPORT FOR THE DEPTH OF GRUBBING IN THIS AREA.
- 4 — SAW CUT, REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND PREPARE FOR NEW CONCRETE DRIVE APPROACH.
- 5 — REMOVE AND PROPERLY DISPOSE OF ANY ASPHALT CONCRETE PAVING. REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION. SAW CUT ALL EDGES.
- 6 — EXISTING LIGHT POLE, MAINTAIN AND PROTECT.
- 7 — SILT FENCE LOCATION – SEE GENERAL NOTES

GENERAL NOTES

1. REFER TO SITE DEVELOPEMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. 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.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. PROVIDE AND INSTALL SILT FENCE AT INSIDE FACE OF WEST SIDEWALK AND NORTH AND SOUTH PROPERTY LINES FROM THE SIDE WALK TO 12' PAST THE WEST FACE OF THE STRUCTURE.
   SILT FENCE IS TO EXTEND MINIMUM 6" BELOW GRADE AND MINIMUM 18" ABOVE GRADE. PROVIDE A POLLUTION PREVENTION PLAN FOR FOR OFF SITE WORK AND FOR WORK ON SITE IF REQUIRED BY GOVERNING JURISDICTION.

NEW CEDAR CITY LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

SITE PLAN

STATE OF UTAH — FRANK N. MURDOCK — 12/4/08 — LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST DOC
FILE NAME: ABCCC-AS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

AS 101

SITE INFORMATION

PARKING:

PARKING STALLS	32 STALLS
ACCESSIBLE STALLS	2 STALLS
PARKING TOTALS	34 STALLS

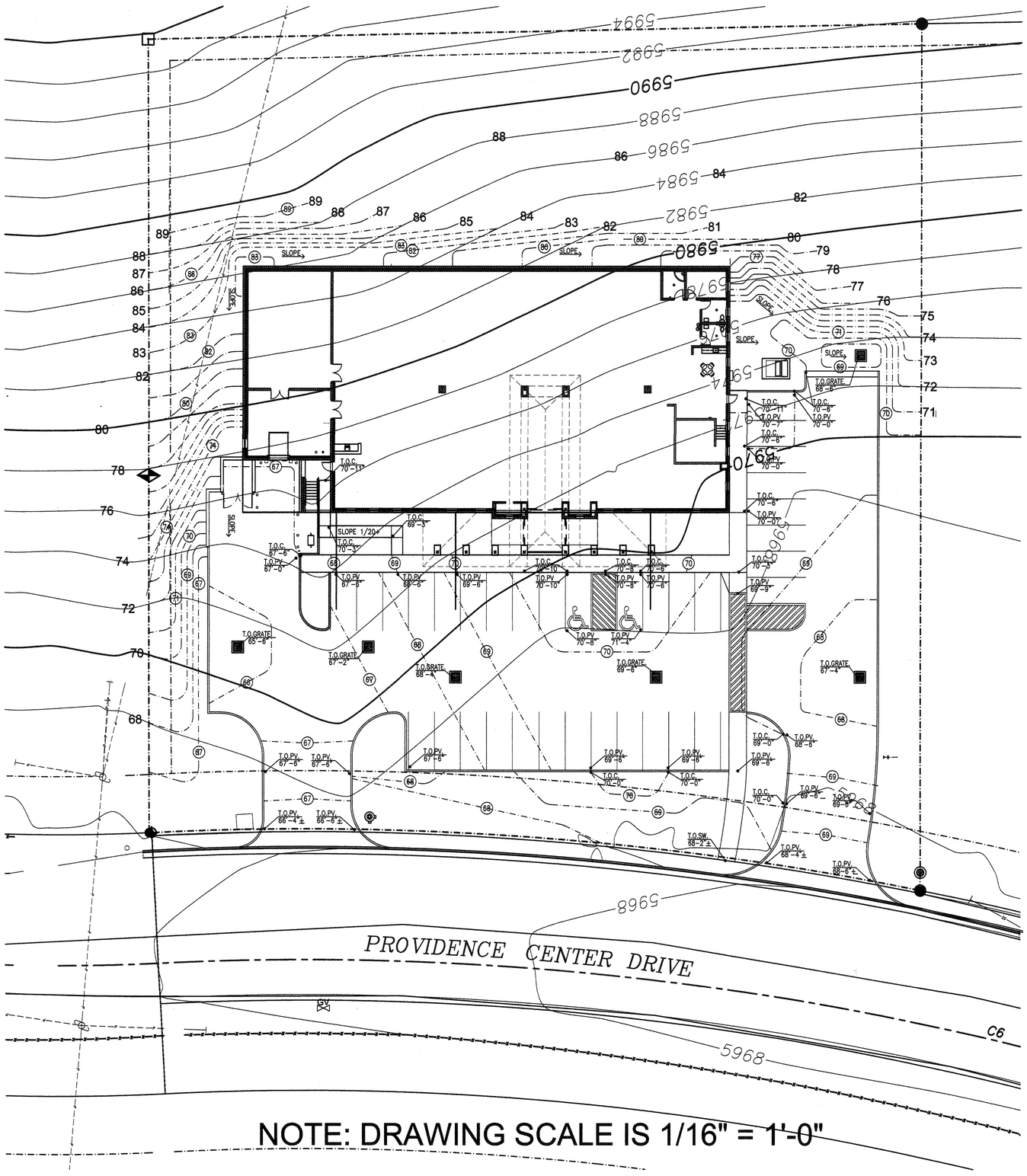
SITE DRAWINGS

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

- 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
- FENCE
- 4434 EXISTING GRADE CONTOUR
- 31 NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- NEW SECURITY FENCE – SEE 22/SD-4
- A B SIGN TYPES – SEE 2/SD-4
- 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



NOTE: DRAWING SCALE IS 1/16" = 1'-0"

SITE GRADING PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW CEDAR CITY LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

SITE GRADING PLAN

STATE OF UTAH
FRANK N. MURDOCK
134496
3/31/09
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST DOC
FILE NAME: ABCCC-AS102
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

AS 102

GENERAL NOTES

1. REFER TO SITE DEVELOPEMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. 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.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.

SITE INFORMATION

PARKING:

PARKING STALLS	32 STALLS
ACCESSIBLE STALLS	2 STALLS
PARKING TOTALS	34 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

- 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
- X — FENCE
- 4434 — EXISTING GRADE CONTOUR
- 31 — NEW GRADE CONTOUR
- CL — CENTER LINE OF ROAD
- X — X — NEW SECURITY FENCE – SEE 22/SD-4
- A / B — SIGN TYPES – SEE 2/SD-4
- 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

CULINARY WATER AND FIRE LINE SERVICE NOTES

1. ALL WATER SERVICE LINES AND CONNECTION . CONSTRUCTION SHALL COMPLY WITH LOCAL WATER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.
2. INSTALL 1 1/2" "T" FOR AUTOMATIC LANDSCAPE SPRINKLER SYSTEM CONNECTION PROVIDE AND INSTALL BACKFLOW PREVENTER AND VALUES AS REQUIRED BY UTILITY PROVIDER

STORM SEWER NOTES

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

SANITARY SEWER NOTES

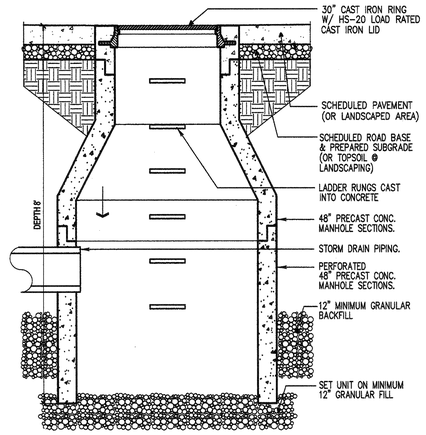
1. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH LOCAL SEWER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.

CEDAR CITY ENGINEERING STANDARDS AND DETAILS

1. FOR CEDAR CITY ENGINEERING STANDARDS AND DETAILS ON THE WEB SEE: http://ut-cedarcity.civicplus.com/index.asp?NID=126

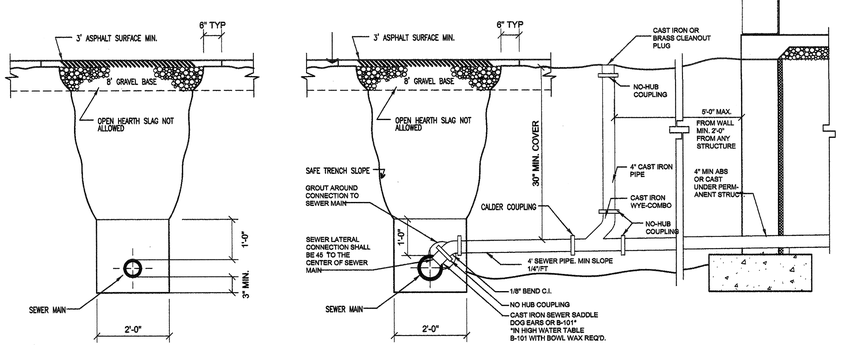
UTILITY FEES

1. 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.
2. 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.

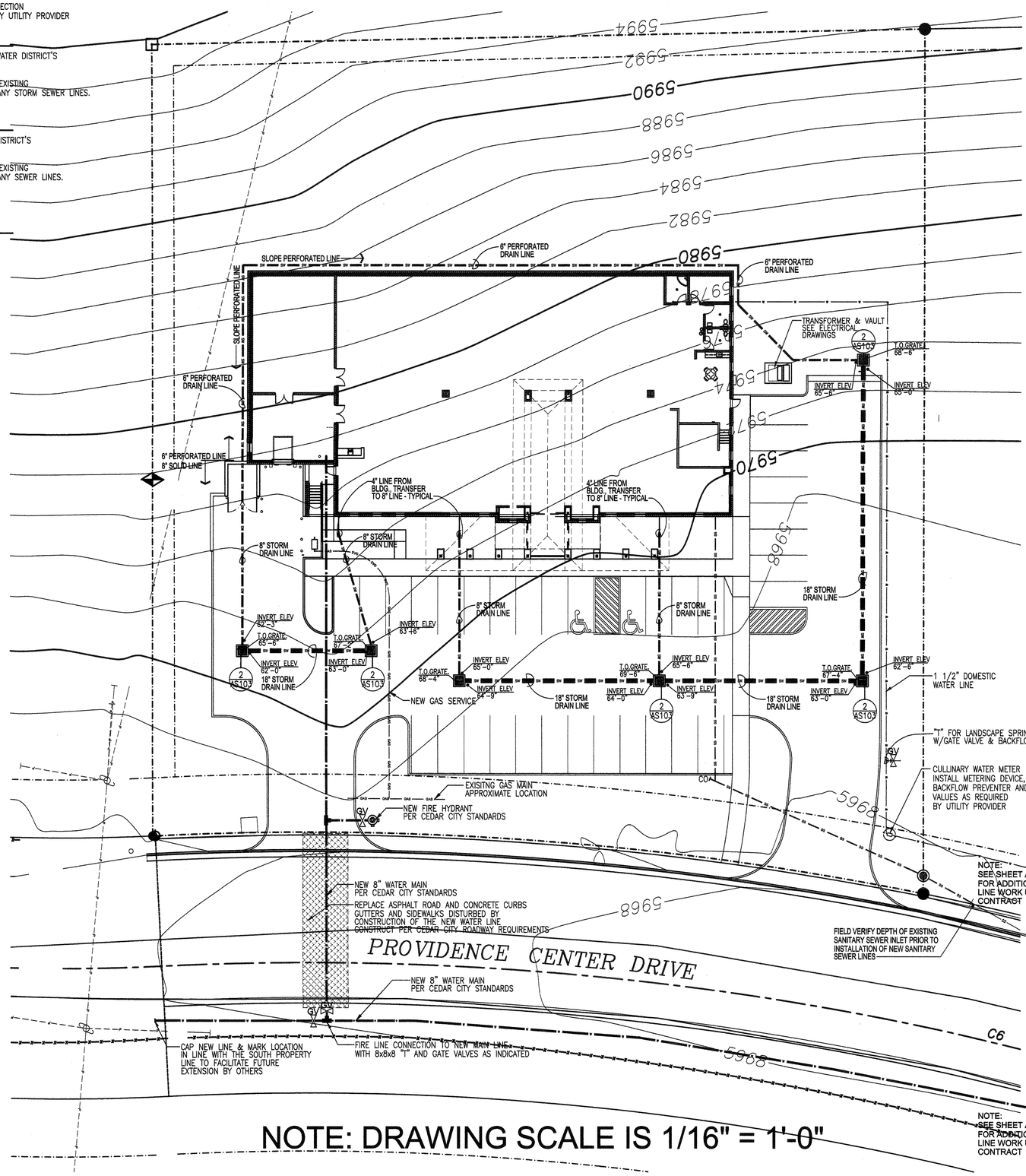


NOTE: DRY SUMP MUST BE INSTALLED IN AN AREA WITH SOIL OF GOOD PERCOLATION. COORDINATE DEPTH OF DRY SUMP w/ SOIL CONDITIONS AND FREE DRAINING SOIL STRATA.

2 / AS103 DRY SUMP SECTION
SCALE: 3/4" = 1'-0"



1 / AS103 STANDARD SEWER LATERAL CONNECTION
SCALE: NOT TO SCALE



NOTE: DRAWING SCALE IS 1/16" = 1'-0"

SITE UTILITY PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW CEDAR CITY LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

SITE UTILITY PLAN

STATE OF UTAH — FRANK N. MURDOCK — 13498 — REGISTERED — 3/3/09 — LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:

CONST DOC
FILE NAME: ABCCC-AS103
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

AS 103

GENERAL NOTES

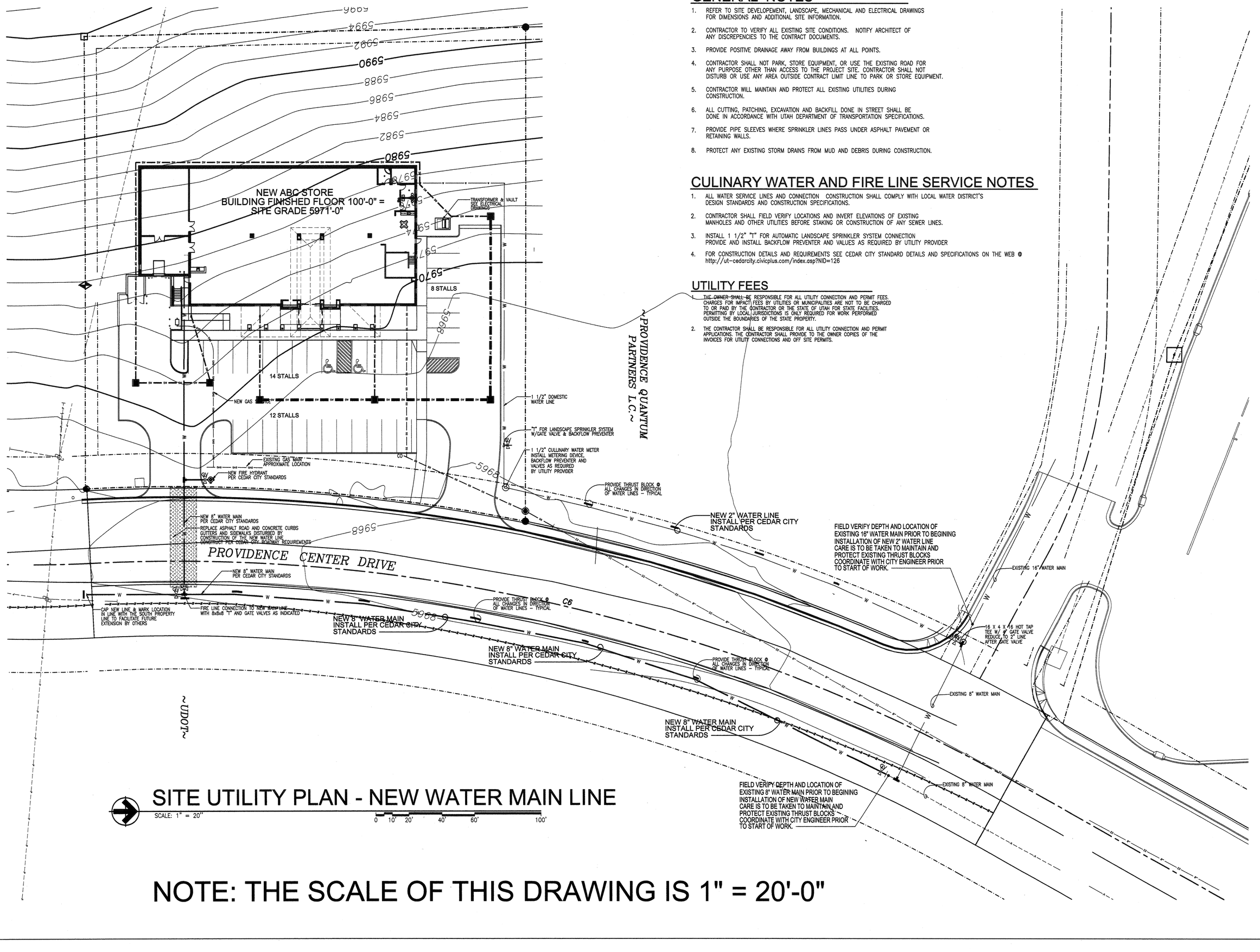
1. REFER TO SITE DEVELOPEMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. 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.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.

CULINARY WATER AND FIRE LINE SERVICE NOTES

1. ALL WATER SERVICE LINES AND CONNECTION CONSTRUCTION SHALL COMPLY WITH LOCAL WATER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.
3. INSTALL 1 1/2" "T" FOR AUTOMATIC LANDSCAPE SPRINKLER SYSTEM CONNECTION PROVIDE AND INSTALL BACKFLOW PREVENTER AND VALUES AS REQUIRED BY UTILITY PROVIDER
4. FOR CONSTRUCTION DETAILS AND REQUIREMENTS SEE CEDAR CITY STANDARD DETAILS AND SPECIFICATIONS ON THE WEB @ http://ut-cedarcity.civicplus.com/index.asp?NID=126

UTILITY FEES

1. ~~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.
2. 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.



SITE UTILITY PLAN - NEW WATER MAIN LINE

SCALE: 1" = 20'

0 10' 20' 40' 60' 100'

NOTE: THE SCALE OF THIS DRAWING IS 1" = 20'-0"

NEW CEDAR CITY LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

SITE UTILITY PLAN - NEW WATER MAIN LINE

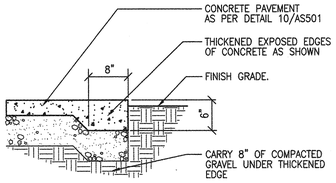
STATE OF UTAH — FRANK N. MURDOCK — 171498 — LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:

CONST DOC
FILE NAME: ABCCC-AS103.1
PLOT SCALE: 1:240
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

AS 103.1



25 AS501 CONCRETE EDGE DETAIL
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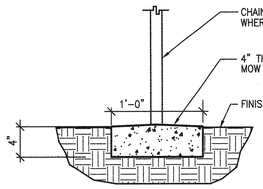

24 AS501 CONCRETE MOW STRIP DETAIL
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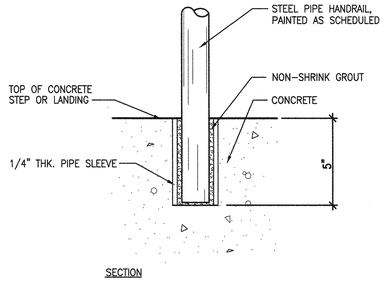

23 AS501 PIPE RAIL ANCHORING DETAIL
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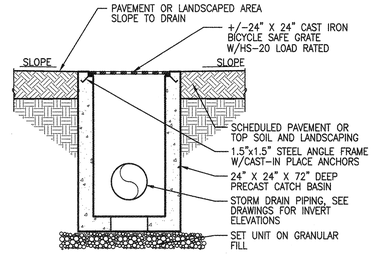
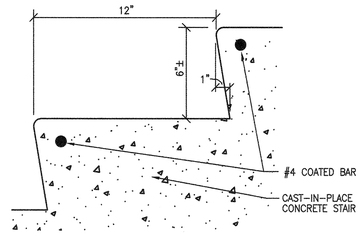
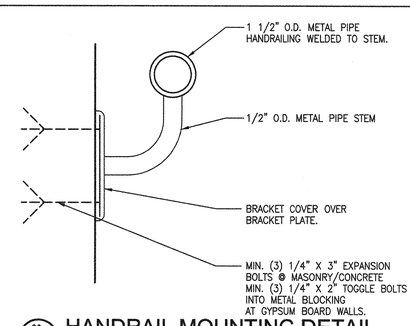


22 AS501 DRY SUMP CATCH BASIN
SCALE: NOT TO SCALE



21 AS501 STAIR NOSING SECTION
SCALE: NOT TO SCALE



20 AS501 HANDRAIL MOUNTING DETAIL
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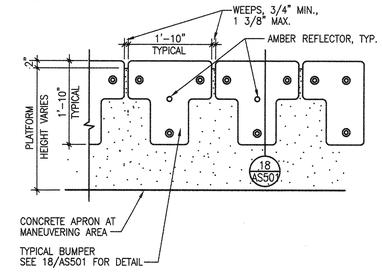
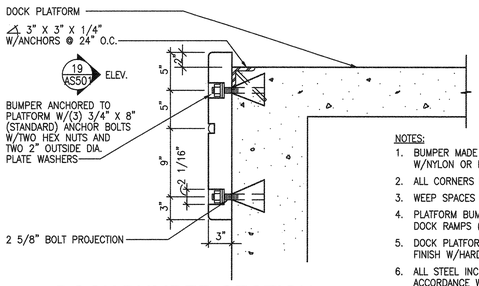


NOTES: ALL STEEL TO BE GALVANIZED IN ACCORDANCE W/ ASTM A-123.

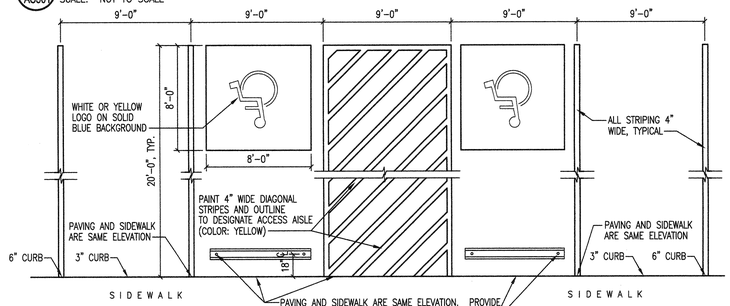


NOTES:
1. BUMPER MADE OF RUBBER REINFORCED W/NYLON OR RAYON OR A COMBINATION OF BOTH.
2. ALL CORNERS ROUNDED.
3. WEEP SPACES BETWEEN BUMPERS 3/4" MIN.-1 3/8" MAX.
4. PLATFORM BUMPERS WILL NOT BE POSITIONED WHERE DOCK RAMPS (FLIP-OVER, HINGED ETC.) ARE USED.
5. DOCK PLATFORM TO BE STEEL TROWEL AND BROOM FINISH W/HARDENING AND SEALING.
6. ALL STEEL INCL. BOLTS MUST BE GALVANIZED IN ACCORDANCE W/ASTM A-123.

18 AS501 DOCK BUMPER SECTION
SCALE: NOT TO SCALE

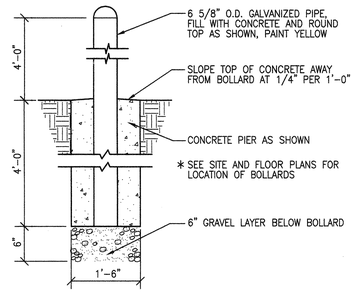
19 AS501 DOCK BUMPER ELEVATION
SCALE: NOT TO SCALE

16 AS501 NOT USED
SCALE: NOT TO SCALE



NOTE: MAXIMUM SLOPE IN ANY DIRECTION AT HANDICAP PARKING STALLS AND ACCESS AISLE IS 1:50 (2%). ALL STRIPING TO BE APPLIED IN TWO (2) COATS. REFER TO SITE PLAN FOR HANDICAP PARKING STALL LOCATIONS.

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



17 AS501 CONCRETE CURB DETAIL
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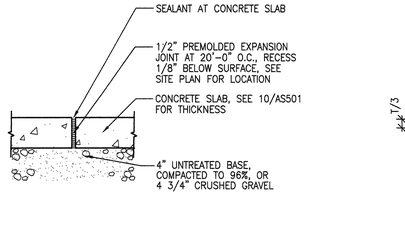
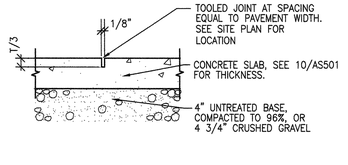


13 AS501 EXPANSION JOINT DETAIL (EJ)
SCALE: NOT TO SCALE



12 AS501 CONTROL JOINT DETAIL (CJ)
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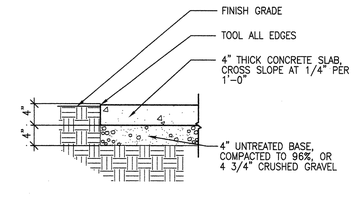
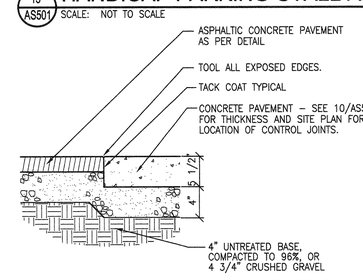
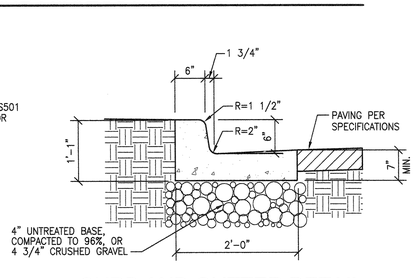


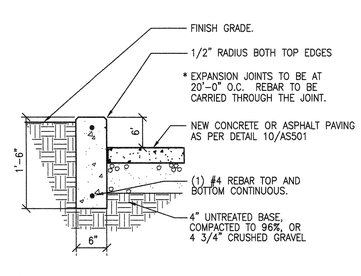
11 AS501 CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE



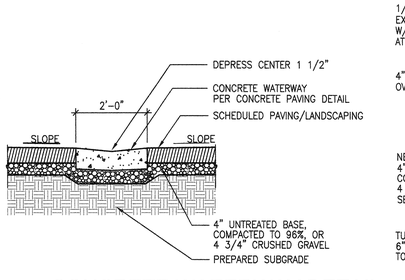
5 AS501 CONCRETE/ASPHALT EDGE
SCALE: NOT TO SCALE



6 AS501 CURB AND GUTTER DETAIL
SCALE: NOT TO SCALE



7 AS501 CONCRETE CURB DETAIL
SCALE: NOT TO SCALE



8 AS501 CONCRETE WATERWAY DETAIL
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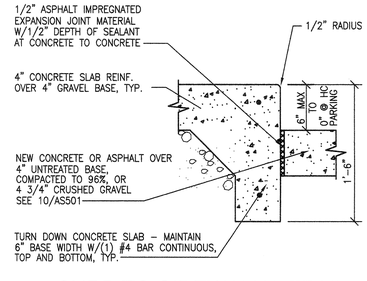
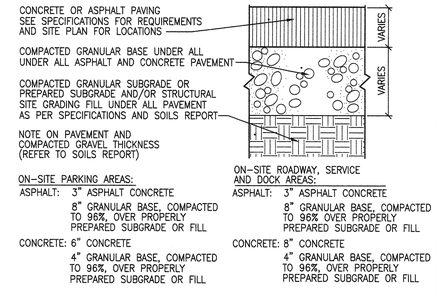


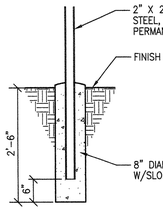
9 AS501 CURB TO SIDEWALK DETAIL
SCALE: NOT TO SCALE



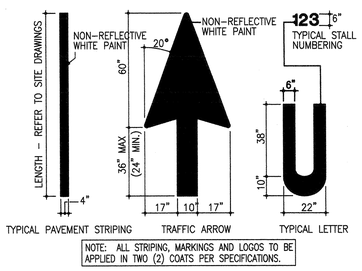
ON-SITE PARKING AREAS:
ASPHALT: 3" ASPHALT CONCRETE
8" GRANULAR BASE, COMPACTED TO 96%, OVER PROPERLY PREPARED SUBGRADE OR FILL
CONCRETE: 6" CONCRETE
4" GRANULAR BASE, COMPACTED TO 96%, OVER PROPERLY PREPARED SUBGRADE OR FILL

ON-SITE ROADWAY, SERVICE AND DOCK AREAS:
ASPHALT: 3" ASPHALT CONCRETE
8" GRANULAR BASE, COMPACTED TO 96% OVER PROPERLY PREPARED SUBGRADE OR FILL
CONCRETE: 8" CONCRETE
4" GRANULAR BASE, COMPACTED TO 96%, OVER PROPERLY PREPARED SUBGRADE OR FILL

10 AS501 PAVEMENT SECTIONS
SCALE: NOT TO SCALE

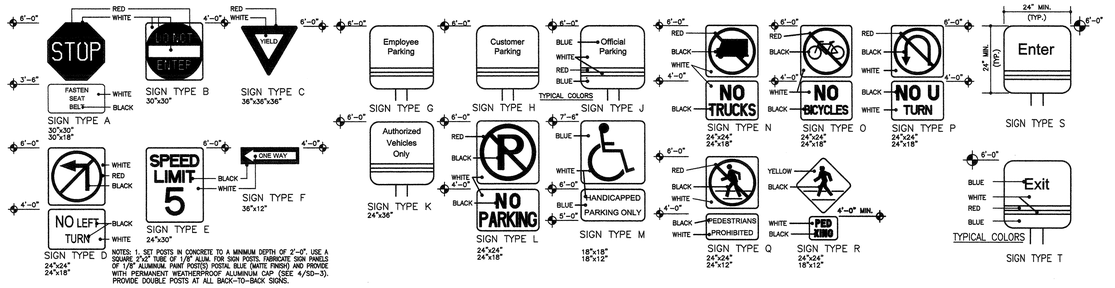


4 AS501 EXTERIOR SIGNAGE SUPPORT
SCALE: NOT TO SCALE



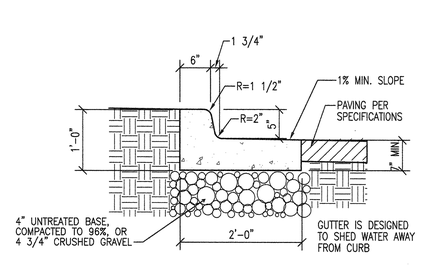
NOTE: ALL STRIPING, MARKINGS AND LOGOS TO BE APPLIED IN TWO (2) COATS PER SPECIFICATIONS.

3 AS501 PAVEMENT MARKINGS
SCALE: NOT TO SCALE



NOTES: 1. SET POSTS IN CONCRETE TO A MINIMUM DEPTH OF 2'-0". USE A SQUARE 2"x2" TUBE OF 1/8" ALUM. FOR SIGN POSTS. FABRICATE SIGN PANELS OF 1/8" ALUMINUM. PAINT POST(S) POSTAL BLUE (MATTE FINISH) AND PROVIDE WITH PERMANENT WEATHERPROOF ALUMINUM CAP (SEE 4/SD-3). PROVIDE DOUBLE POSTS AT ALL BACK-TO-BACK SIGNS.

2 AS501 EXTERIOR TRAFFIC SIGNAGE
SCALE: NOT TO SCALE



1 AS501 OUTFLOW CURB & GUTTER DETAIL
SCALE: NOT TO SCALE

NEW CEDAR CITY LIQUOR STORE
DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

SITE 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

STATE OF UTAH FRANK N MURDOCK 124498 LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08227030
CONST DOC
FILE NAME: ABCCC-AS501
PLOT SCALE: 1:240
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: FEBRUARY 2009

AS 501

GENERAL NOTES

1. REFER TO SITE DEVELOPEMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. 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.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.

REFERENCE NOTES ◇

◇1 MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING LANDSCAPING, SIDEWALKS, STORM DRAIN BASIN, ASPHALT AND CURBS & GUTTERS. MAINTAIN AND PROTECT EXISTING LANDSCAPING TO REMAIN DURING CONSTRUCTION.

◇2 MAINTAIN AND PROTECT EXISTING SITE ELEMENTS ON ADJACENT PROPERITES IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTY CAUSED BY WORK ASSOCIATED WITH THIS CONTRACT.

◇3 REMOVE AND PROPERLY DISPOSE OF EXISTING LANDSCAPING INCLUDING ALL TREES AND SHRUBS ON SITE. SEE SOILS REPORT FOR THE DEPTH OF GRUBBING IN THIS AREA.

SITE INFORMATION

PARKING:

PARKING STALLS	52 STALLS
ACCESSIBLE STALLS	3 STALLS
PARKING TOTALS	55 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

- 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
- 4434 EXISTING GRADE CONTOUR
- (31) NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- 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

LANDSCAPE LEGEND

26 EACH		EXISTING JUNIPER TREES TO BE RELOCATED – EXCAVATE EXISTING TREES MAINTAINING A MINUMUM 48" DIAMETER ROOT BALL (LARGER IS BETTER) WRAP THE ROOT BALL IN BURLAP. – WATER PLANTS WEEKILY UNTIL RELOCATED RELOCATE AS SOON AS PRACTICAL – LOCATIONS AS NOTED
12 EACH		EXISTING PINE TREES TO BE RELOCATED – EXCAVATE EXISTING TREES MAINTAINING A MINUMUM 42" DIAMETER ROOT BALL (LARGER IS BETTER) WRAP THE ROOT BALL IN BURLAP. – WATER PLANTS WEEKILY UNTIL RELOCATED RELOCATE AS SOON AS PRACTICAL – LOCATIONS AS NOTED
240 EACH		1G SAGE (LEUCOPHYLLUM FRUTESCENS) LOCATIONS AS NOTED NOTE: SAGE MAY BE SALVAGED AND REPLANTED FROM EXISTING ON SITE FOLIAGE. THIS IS THE PREFERRED PLANTING METHOD.
200 EACH		1G DEER GRASS (MUHLENBERGIA RIGENS) LOCATIONS AS NOTED
		INSTALL LANDSCAPE FABRIC, PLANTS, ROCK MULCH, AND DRIP SPRINKLING SYSTEM IN THESE AREAS
	RM	"ROCK MULCH" AREA INSTALL 2" MINIMUM OF WASHED ROCKS OVER LANDSCAPE FABRIC ROCKS TO BE 3/4" MINUS APACHE BROWN. IRRIGATE PLANTS ONLY
	PA	"PLANTING AREA" INSTALL ROCK MULCH, PLANTS AND DRIP SPRINKLING SYSTEM IN THESE AREAS OVER 4" NATIVE TOP SOIL.
	NP	"NATIVE PLANT AREA" REINSTALL EXISTING PLANTS SALVAGED DURING EXCAVATION. INSTALL PLANTS AND AUTOMATIC SPRINKLING SYSTEM IN THESE AREAS TO ASSIST PLANTS TO RE-ESTABLISH. INSTALL 4" NATIVE TOP SOIL.

BOULDERS

NOTE: IN ADDITION TO THE LANDSCAPING INDICATED, PROVIDE AND INSTALL

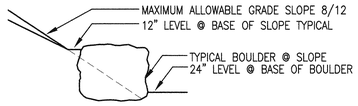
50 BOULDERS WITH MINIMUM DIMENSIONS OF 48" LONG BY 30" HIGH BY 36" WIDE.

30 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 OF A TYPE NATIVE TO THE LOCAL AREA.

BOULDERS ARE NOT TO BE STACKED FOR USE AS RETAINING WALLS. BOULDERS MAY ONLY RETAIN SOIL TO 3/4 OF THEIR OWN HEIGHT



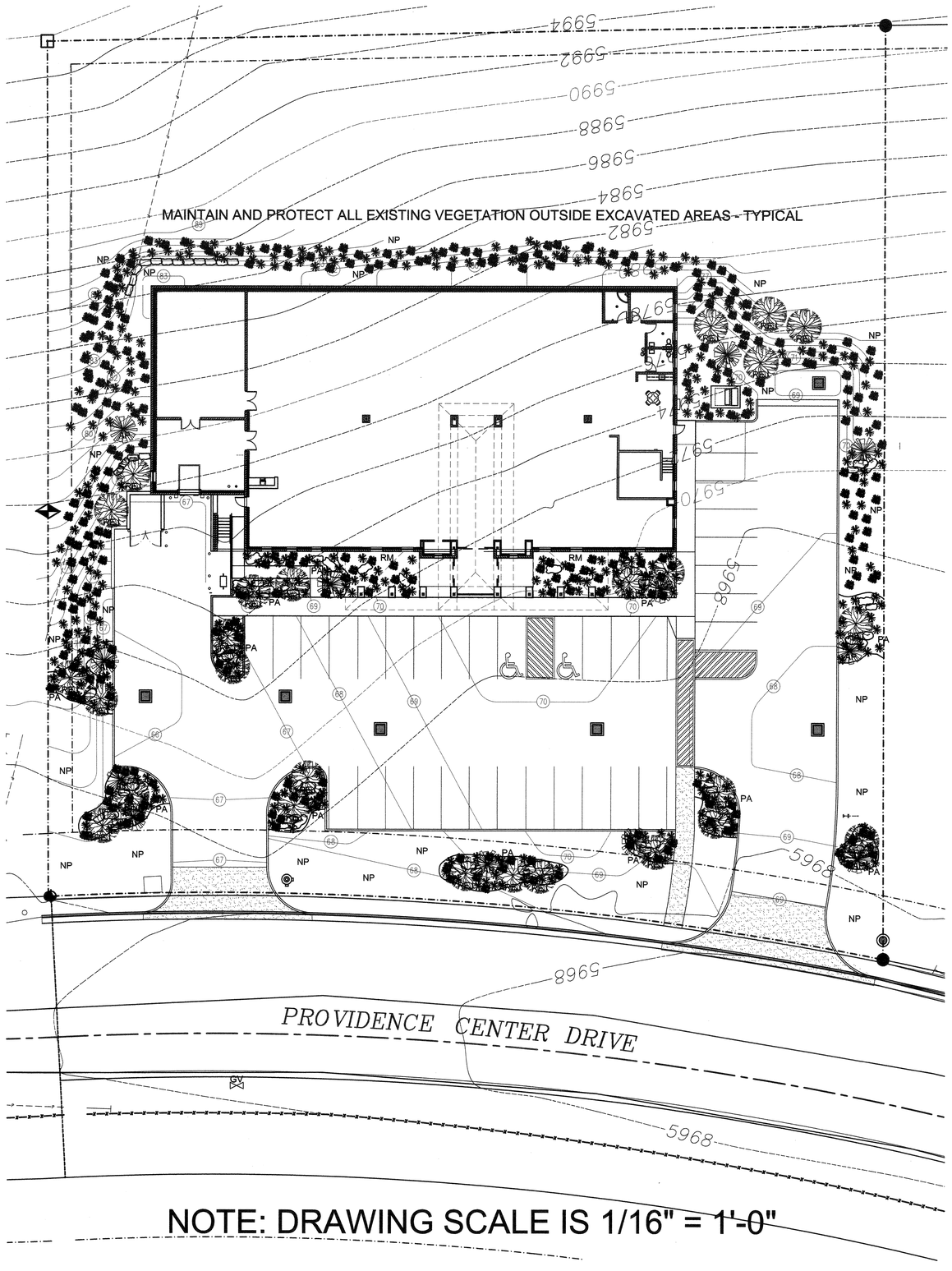
IRRIGATION

NOTE: PROVIDE AND INSTALL "DRIP" IRRIGATION SYSTEM ONLY TO PLANTS IN "PLANTS AREAS" AND "ROCK MULCH" AREAS.

PROVIDE AND INSTALL AUTOMATIC LANDSAPE SPRINKLING SYSTEM IN ALL "SOD" AREAS AND "NATIVE PLANT" AREAS.

LANDSCAPING PLAN GENERAL NOTES

1. ALL AREAS NOTED AS "LANDSCAPED AREA", SHALL BE PROVIDED WITH A LANDSCAPE IRRIGATION SYSTEM. SLEEVES SHALL BE PROVIDED UNDER PAVED AREAS TO FACILITATE THE IRRIGATION SYSTEM. SEE SPECIFICATIONS FOR REQUIREMENTS.
2. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SLEEVES UNDER PAVED AREAS. WORK SHALL BE COORDINATED WITH PAVING CONTRACTOR.
3. INSTALL A MINIMUM OF 4" OF NATIVE TOP SOIL AT ALL LANDSCAPED AREAS.
4. 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 ROCK (3" DEEP).
5. COMPLETELY COVER AREA AROUND SHRUB, TREE, AND GROUNDCOVER PLANTINGS WITH A 3" THICK LAYER OF ROCKS OVER LANDSCAPE FABRIC.
6. STAKE AND GUY SUPPORT ALL TREES. PROVIDE TREE TRUNK PROTECTION PLASTIC SLEEVES AT ALL TREES NOT PLANTED WITH SHRUBS AROUND THEIR BASE.
7. PROVIDE FLEXIBLE EDGING AND WASHED ROCKS AT ALL TREES IN LANDSCAPE AREAS. PROVIDE 4' DIAMETER EDGING CIRCLE, AT TREES IN LANDSCAPE AREAS, WHERE NO EDGING IS OTHERWISE NOTED.
8. CONSTRUCT A 4" HIGH EARTHEN BERM AROUND ALL TREES AND SHRUBS. BERM TO BE SAME DIAMETER AS EXCAVATION FOR ROOT BALL PLANTING PIT.
9. 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.
10. PROVIDE AND INSTALL COMPLETE AUTOMATIC "DRIP" TYPE LANDSCAPE SPRINKLING SYSTEM TO ALL TREES AND PLANTS IN LANDSCAPE AREAS. SEE SPECIFICATIONS FOR DETAILED SYSTEM REQUIREMENTS.
11. PROVIDE AND INSTALL A MINUMUM OF 3" OF WASHED ROCKS IN ALL DEFINED LANDSCAPE AREAS.
12. 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.



NOTE: DRAWING SCALE IS 1/16" = 1'-0"

LANDSCAPE PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW CEDAR CITY LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

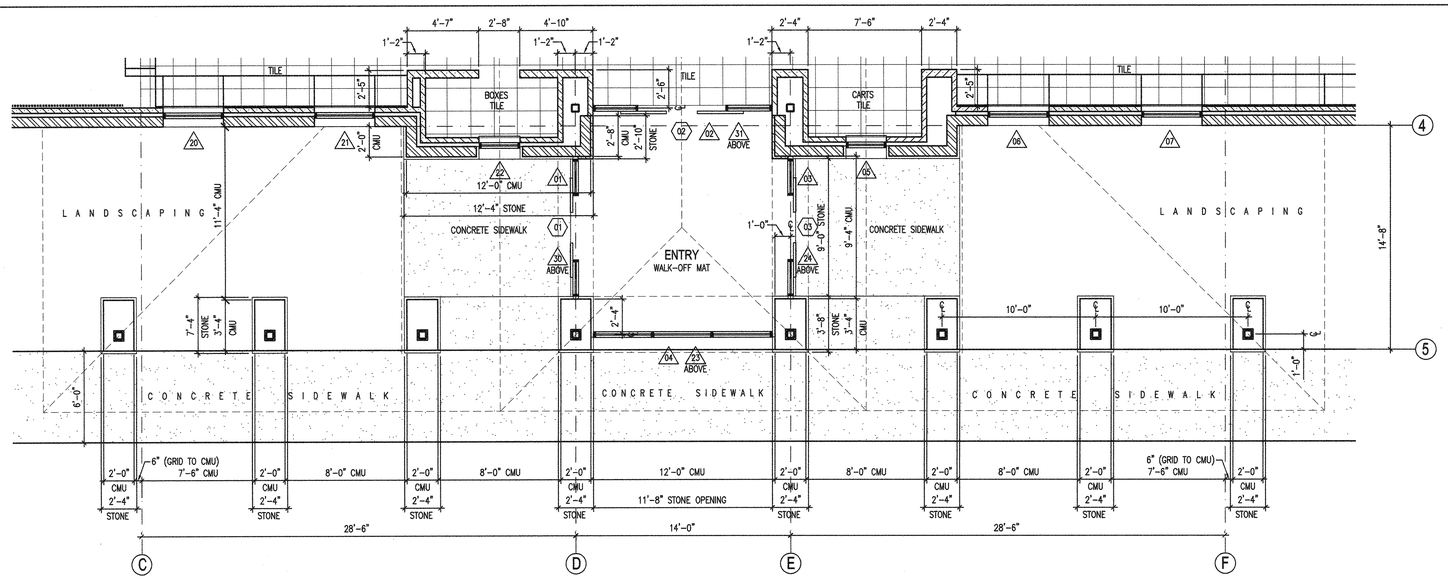
LANDSCAPE PLAN

STATE OF UTAH – FRANK N. MURDOCK – 124498 – REGISTERED LICENSED ARCHITECT

REVISION #	DATE:

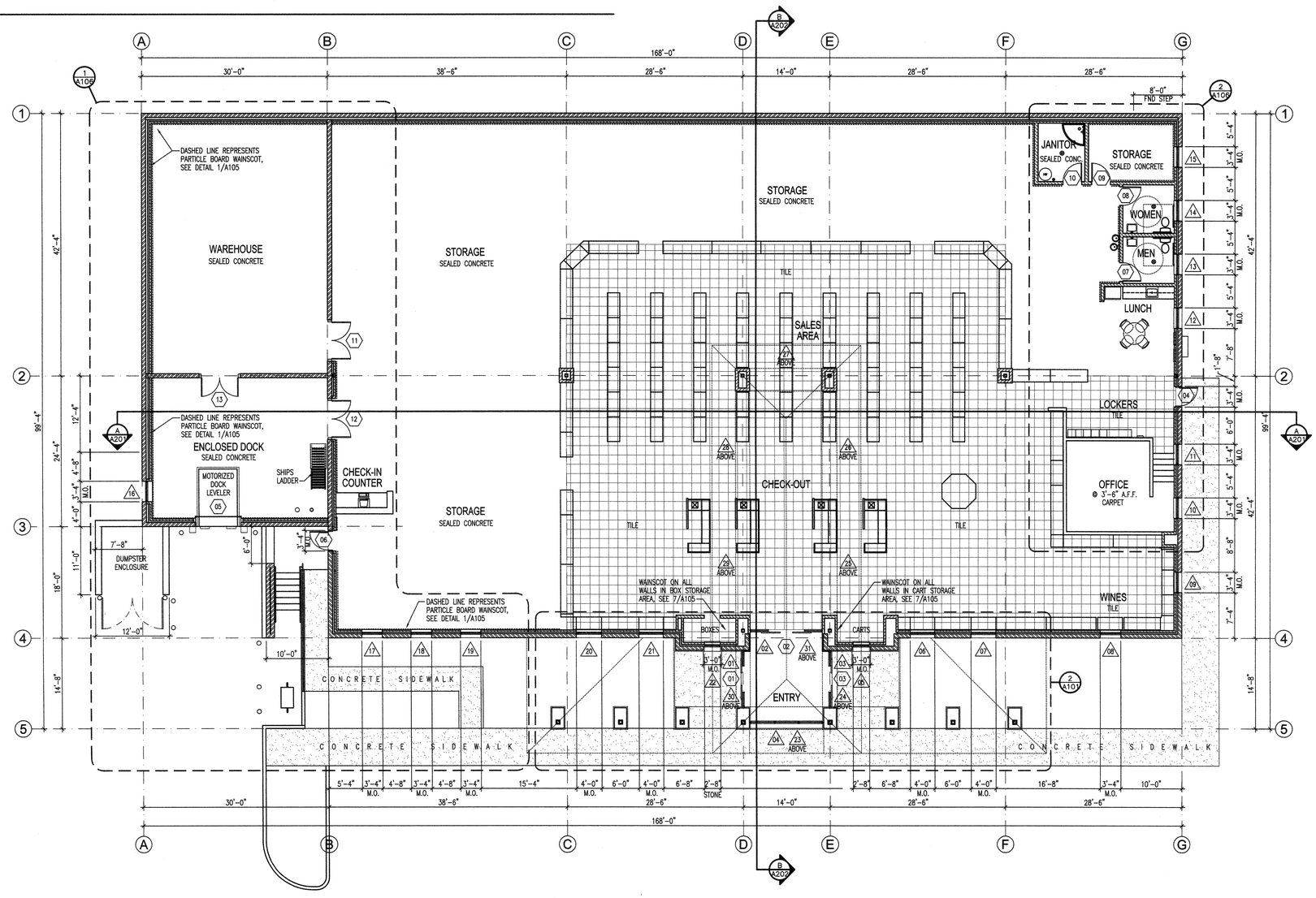
DFCM PROJECT NO.: 08227030
CONST DOC
FILE NAME: ABCCC-LS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

LS 101



2/A101 ENLARGED FLOOR PLAN AT FRONT ENTRANCE

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



1/A101 FLOOR PLAN CEDAR CITY ABC

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

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

1

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.

NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

FLOOR PLAN AND ENLARGED FLOOR PLAN

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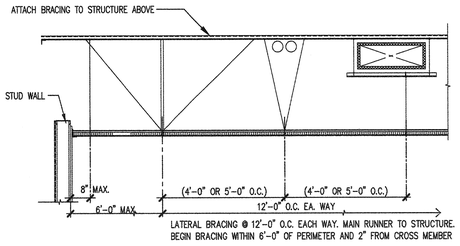
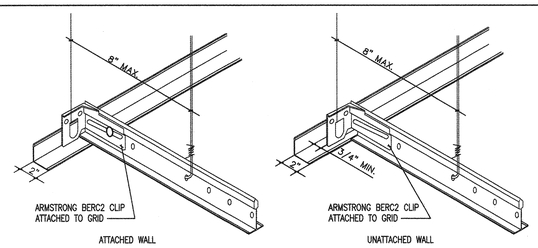
STATE OF UTAH FRANK N. MURDOCK 124493 REGISTERED LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST. DOC.
FILE NAME: ABCCC-A101
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
101





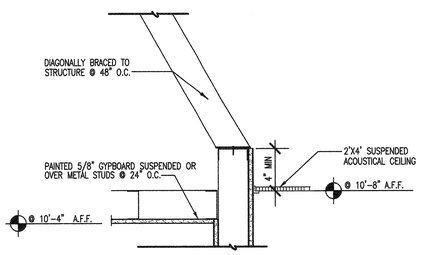
NOTE: CEILING IF INSTALLED PER SECTION 1621 OF THE 2006 IBC

5 A102.1 TYPICAL LAY-IN CEILING BRACING DETAILS

SCALE: NOT TO SCALE

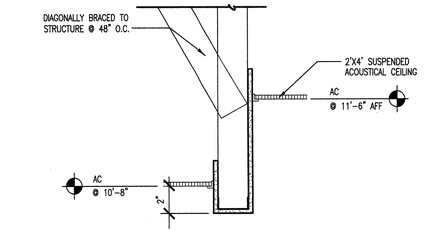
REFLECTED CEILING PLAN LEGEND

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



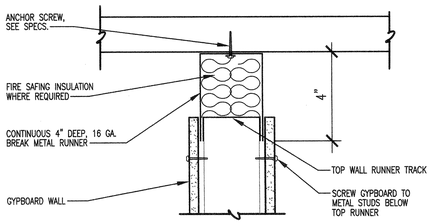
4 A102 INTERIOR WALL BRACING

SCALE: NOT TO SCALE



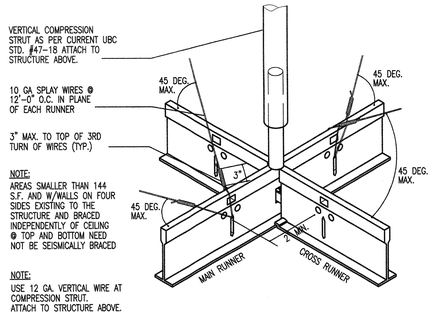
3 A102 CEILING DROP DETAIL

SCALE: NOT TO SCALE



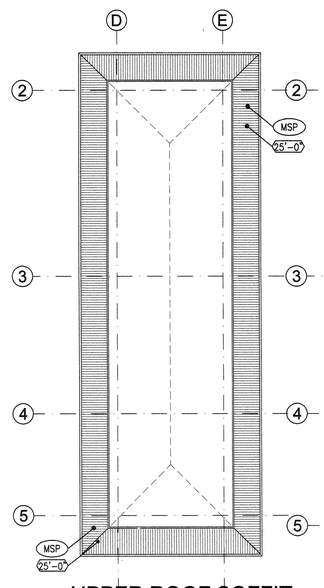
2 A102 SLIP JOINT DETAIL

SCALE: NOT TO SCALE

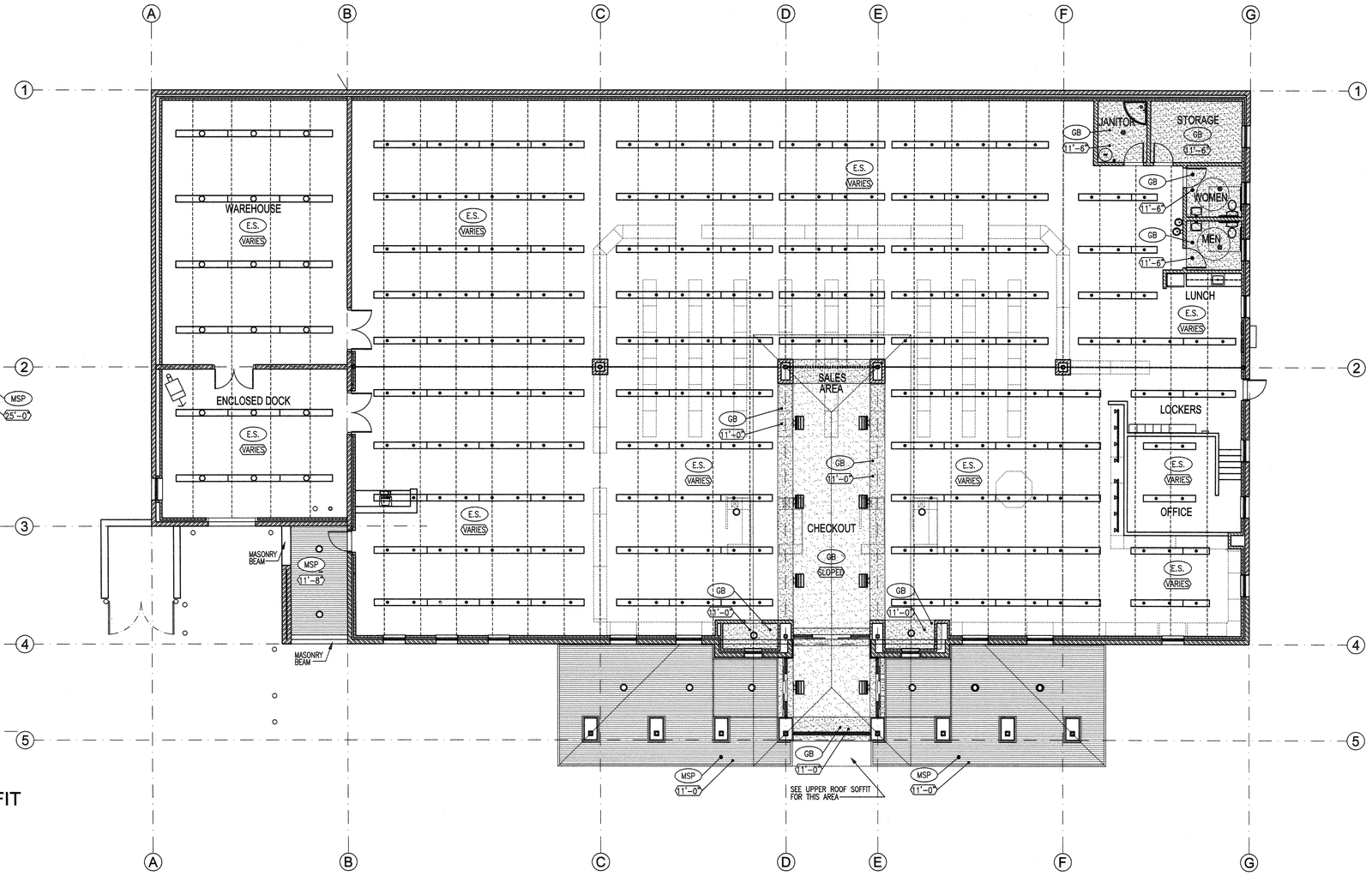


1 A102 SEISMIC BRACING DETAIL

SCALE: NOT TO SCALE



UPPER ROOF SOFFIT



REFLECTED CEILING PLAN

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

0 2' 4' 8' 16'

NEW CEDAR CITY LIQUOR STORE

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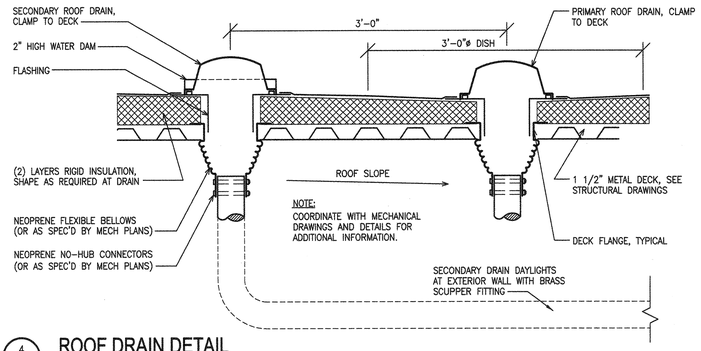
REFLECTED CEILING PLAN

STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

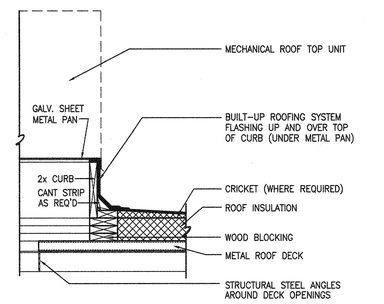
REVISION # DATE:

DFCM PROJECT NO.: 08227030
CONST. DOC.
FILE NAME: ABCCC-A102
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

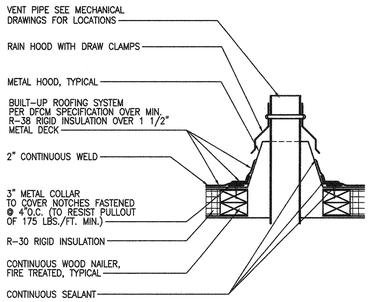
A 102



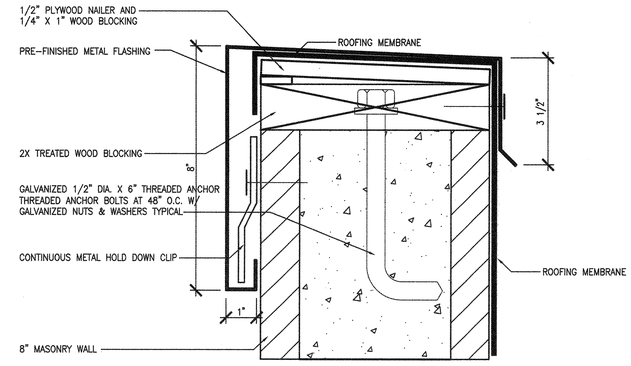
4 A103 **ROOF DRAIN DETAIL**
SCALE: NOT TO SCALE



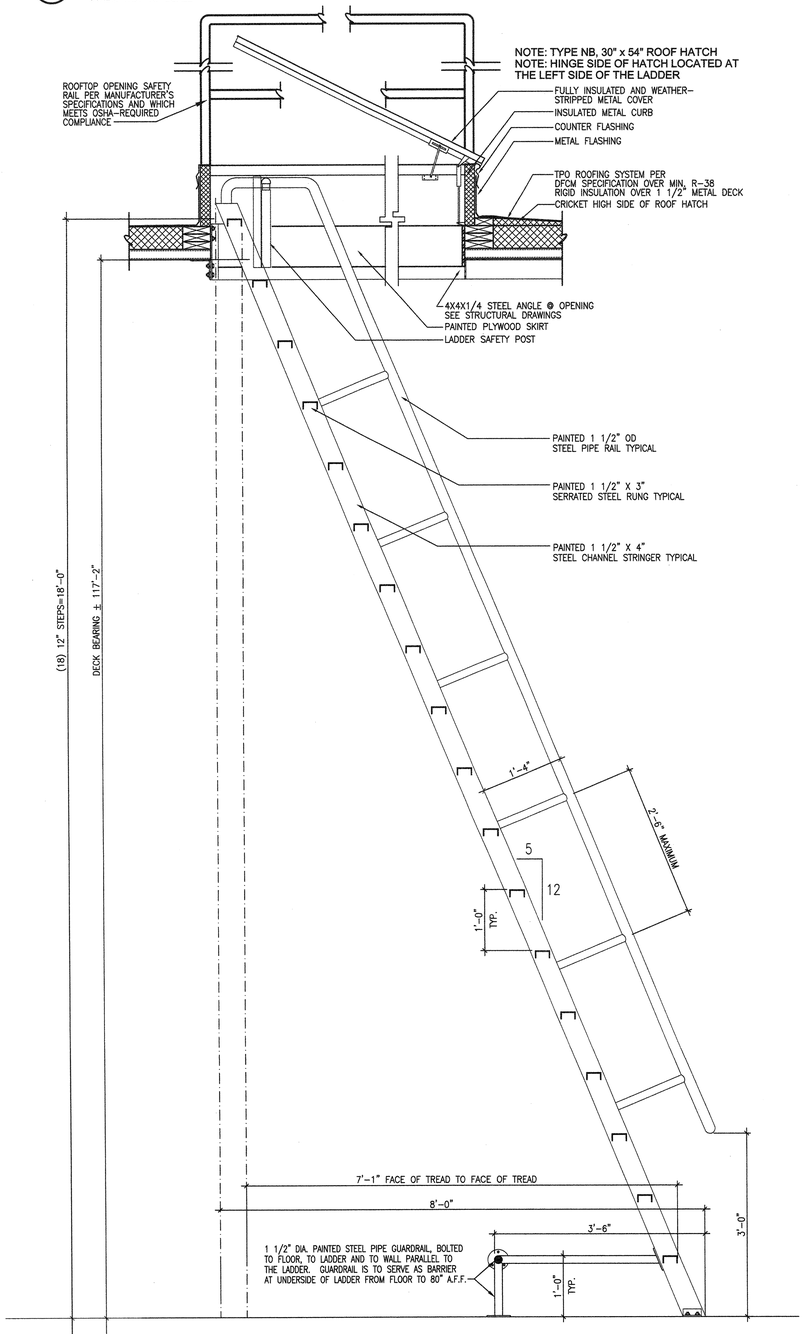
3 A103 **ROOF CURB DETAIL**
SCALE 1" = 1' - 0"



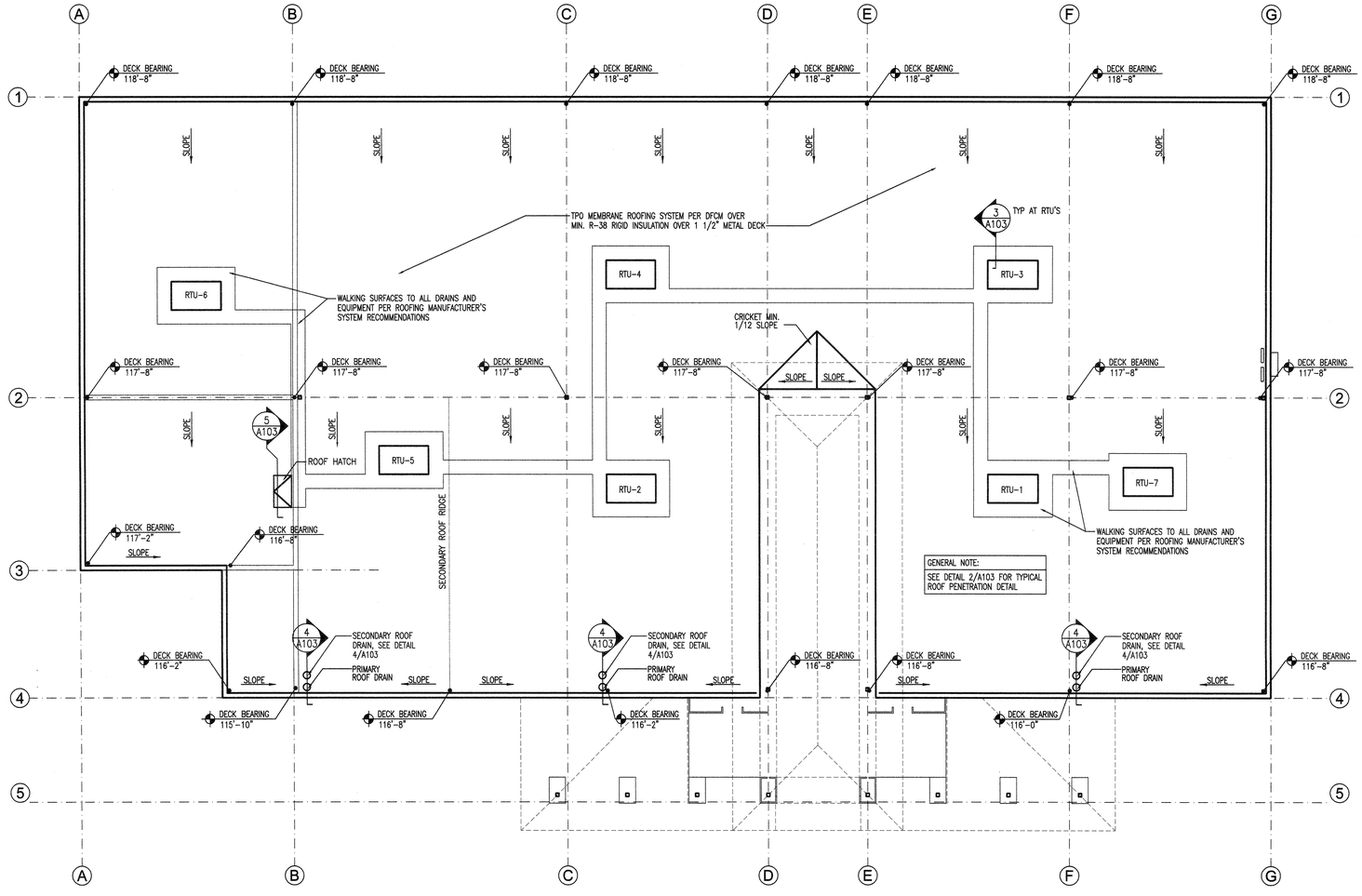
2 A103 **VENT PIPE DETAIL**
SCALE 3" = 1' - 0"



1 A103 **CAP FLASHING DETAIL**
SCALE 1/2" = 1' - 0"



5 A103 **ROOF HATCH DETAIL / SHIPS LADDER**
SCALE: 1" = 1'-0"
0" 3" 6" 12" 24"



MAIN ROOF PLAN
SCALE: 1/8" = 1'-0"
0' 2' 4' 8' 16'

NEW CEDAR CITY LIQUOR STORE
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ROOF PLAN, SECTIONS AND DETAILS

STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST. DOC.
FILE NAME: ABCCC-A103
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

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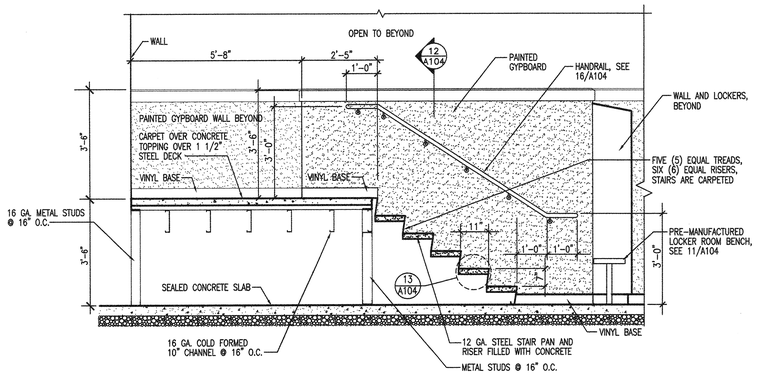
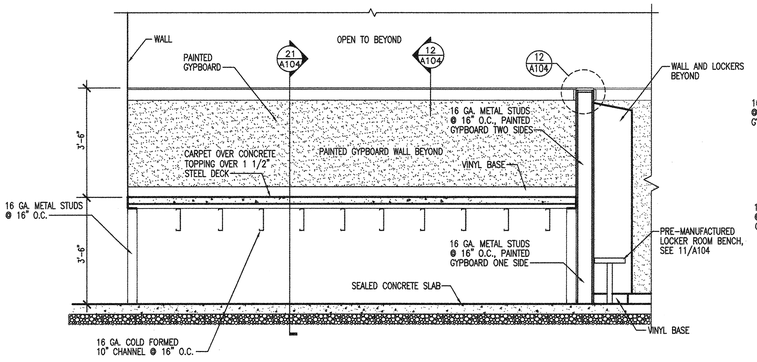
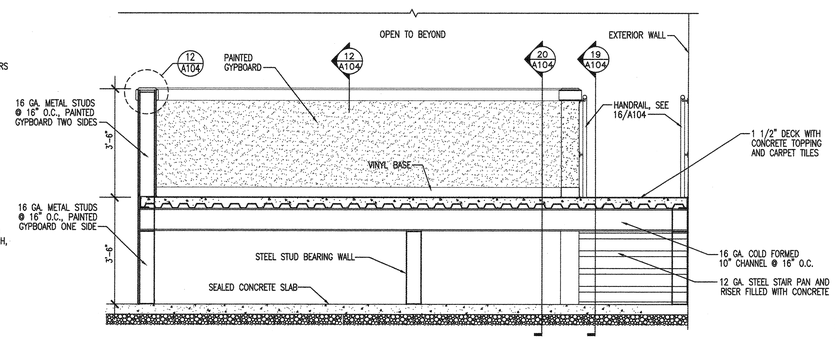
103



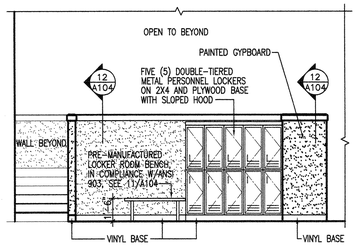
19 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"



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

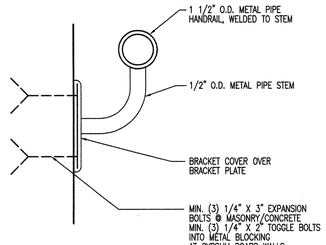


21 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"

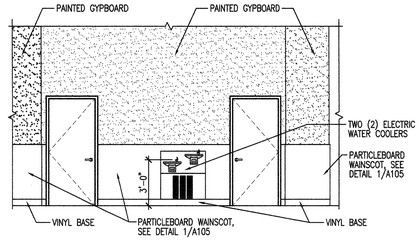


18 A101 NOT USED
SCALE: NOT TO SCALE

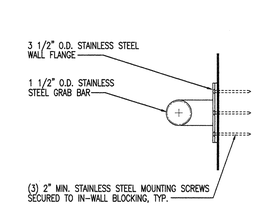
17 A101 ELEVATION AT LOCKERS/BENCH
SCALE: 1/4" = 1'-0"



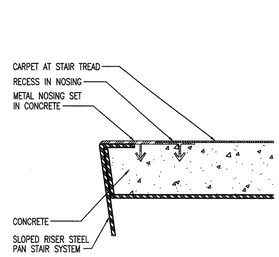
16 A104 HANDRAIL MOUNTING DETAIL
SCALE: NONE



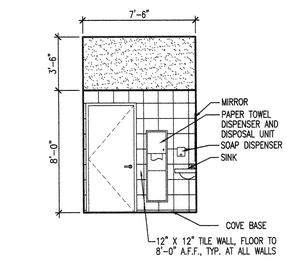
15 A104 ELEVATION AT WATER COOLERS
SCALE: 1/4" = 1'-0"



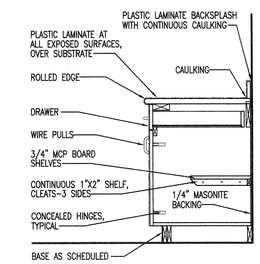
14 A104 GRAB BAR DETAIL
SCALE: NONE



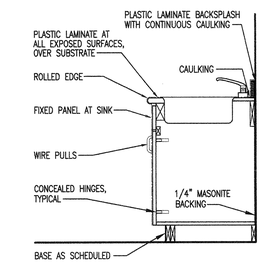
13 A104 OFFICE STAIR NOSING DETAIL
SCALE: NONE



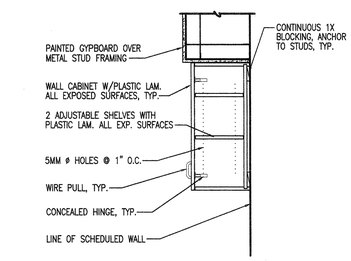
7 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



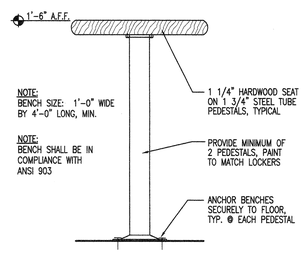
8 A104 BASE CABINET SECTION
SCALE: NONE



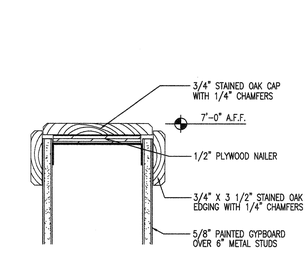
9 A104 SINK CABINET SECTION
SCALE: NONE



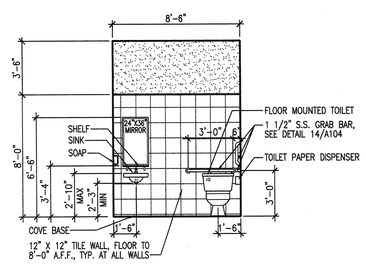
10 A104 UPPER CABINET SECTION
SCALE: NONE



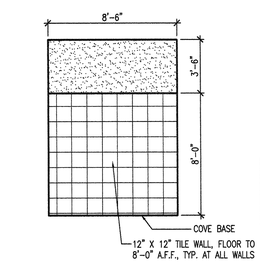
11 A104 LOCKER ROOM BENCH
SCALE: NONE



12 A104 WALL CAP SECTION
SCALE: NONE

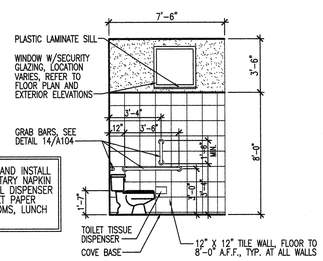


6 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"

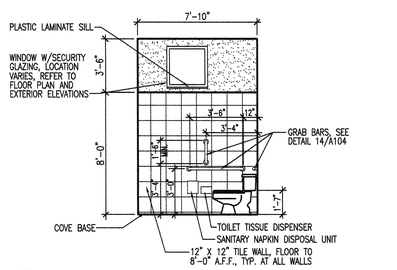


5 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"

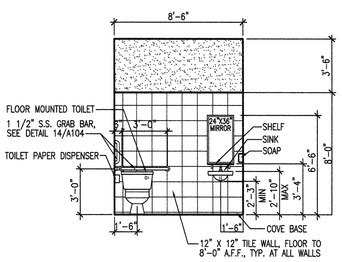
NOTE: OWNER TO PROVIDE AND INSTALL ALL SOAP DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, PAPER TOWEL DISPENSER AND WASTE UNITS AND TOILET PAPER DISPENSERS IN ALL RESTROOMS, LUNCH AREA AND JANITOR ROOM.



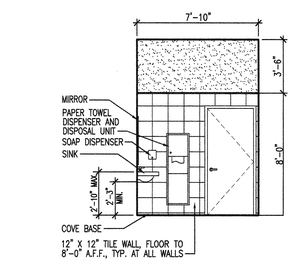
4 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



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



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



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

NEW CEDAR CITY LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
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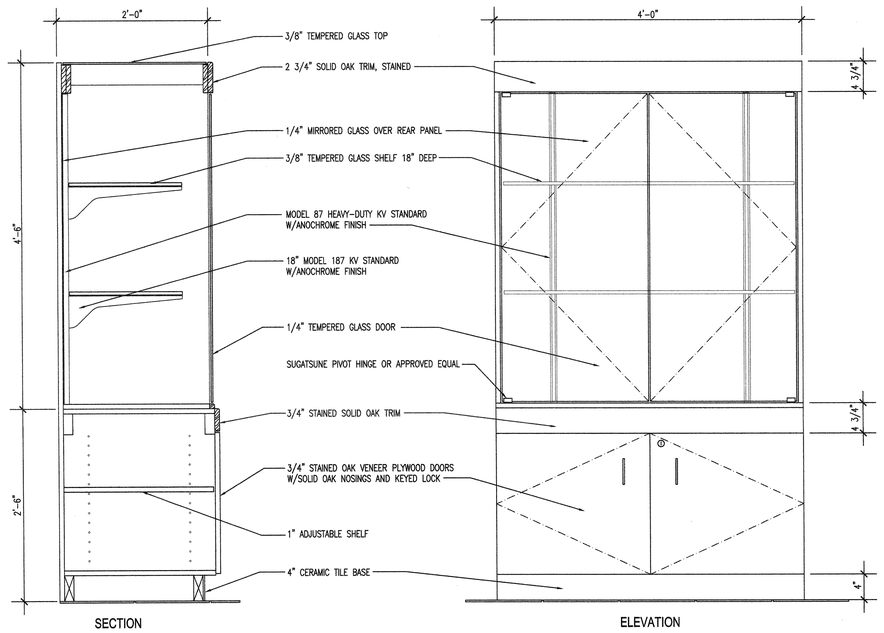
INTERIOR ELEVATIONS AND MISCELLANEOUS INTERIOR DETAILS

STATE OF UTAH — FRANK N MURDOCK — 124488 — REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A104
PLOT SCALE: 1:48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

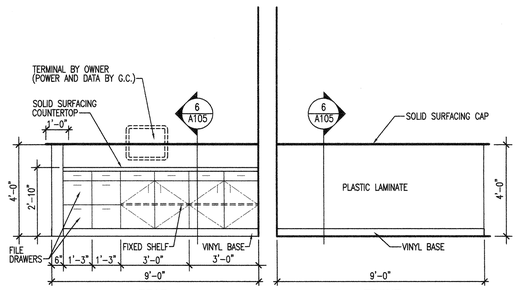
A
104



DISPLAY CASES PROVIDED AND INSTALLED BY OWNER. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BASE UNIT WITH SEISMIC BRACING (SEE DETAIL 2/A105 AND APPENDIX B OF THE SPECIFICATIONS) PRIOR TO INSTALLATION OF DISPLAY CASES AND SHALL PROVIDE AND INSTALL TILE AND/OR VINYL BASE (REFER TO FLOOR FINISHES PLAN) ON ALL EXPOSED SIDES FOLLOWING INSTALLATION OF DISPLAY CASES. THE GENERAL CONTRACTOR SHALL VERIFY QUANTITIES AND BASE UNIT DIMENSIONS WITH THE OWNER REPRESENTATIVE.

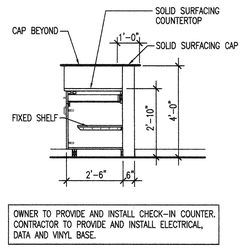
4 A105 DISPLAY CASE ELEVATION AND SECTION

SCALE: NONE



5 A105 ELEVATIONS AT RECEIVING COUNTER

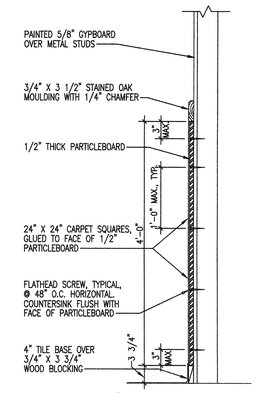
SCALE: NONE



OWNER TO PROVIDE AND INSTALL CHECK-IN COUNTER. CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL, DATA AND VINYL BASE.

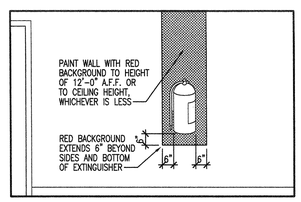
6 A105 SECTION AT RECEIVING COUNTER

SCALE: NONE



7 A105 WAINSCOT SECT. AT CART & BOX STORAGE

SCALE: NOT TO SCALE

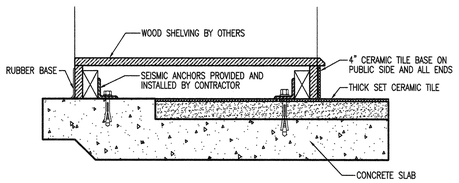


NOTES:

1. FOR FIRE EXTINGUISHERS IN THE WORKROOM, A RED BACKGROUND MUST BE PROVIDED WHICH EXTENDS SIX INCHES ON THE SIDES AND BELOW THE FIRE EXTINGUISHERS OR CABINETS. THE RED BACKGROUND MUST BE EXTENDED ABOVE THE FIRE EXTINGUISHER TO A HEIGHT OF 12 FEET ABOVE THE FINISHED FLOOR OR TO THE CEILING IF THE ROOM IS LESS THAN 12 FEET IN HEIGHT.
2. LOCATE SAFETY EQUIPMENT AT THE HEIGHT RECOMMENDED BY OSHA AND ON THE MOST ACCESSIBLE FACE.

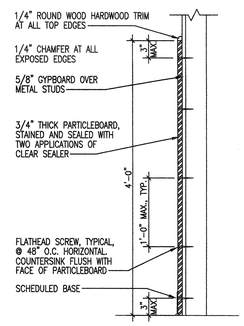
3 A105 FIRE EXTINGUISHER ELEVATION

SCALE: NONE



2 A105 SECTION @ WOOD SHELVING BASE

SCALE: NONE



1 A105 SECTION AT PARTICLEBOARD WAINSCOT

SCALE: NOT TO SCALE

NEW CEDAR CITY LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

INTERIOR ELEVATIONS AND MISCELLANEOUS 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

STATE OF UTAH — FRANK N. MURDOCK — 124098 — REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08227030
CONSTR. DOC.
FILE NAME: ABCCC-A105
PLOT SCALE: 1=48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

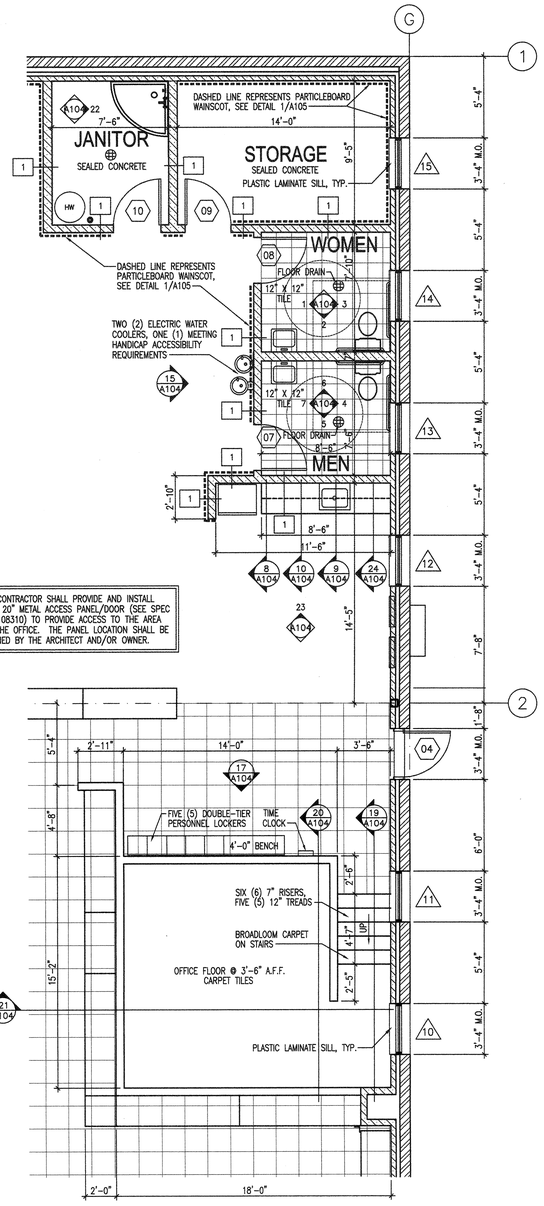
A 105

WALL TYPE

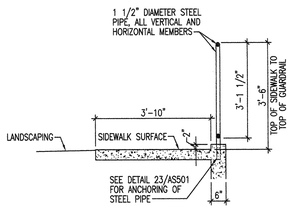
1

BRACE TO ROOF DECK @ 4' O.C.

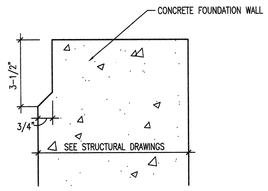
3 5/8" STUD INTERIOR PARTITION WALL:
PAINTED 5/8" GYPBOARD BOTH SIDES OF 3 5/8" METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK OR TO 6" ABOVE CEILING WHERE CEILING OCCURS. PROVIDE DIAGONAL BRACING TO ROOF DECK @ 4' O.C. WHERE CEILING OCCURS. GYPBOARD @ WALL TO STOP @ GYPBOARD CEILING WHERE OCCURS. 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.



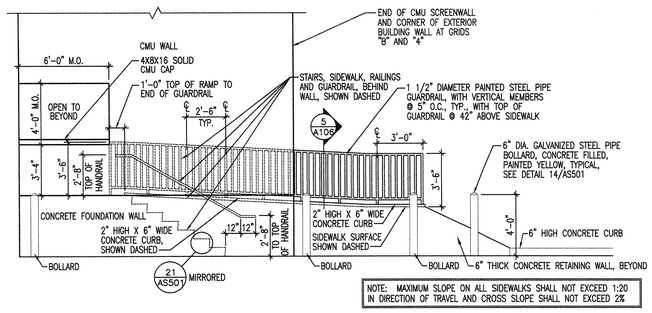
2 A106 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



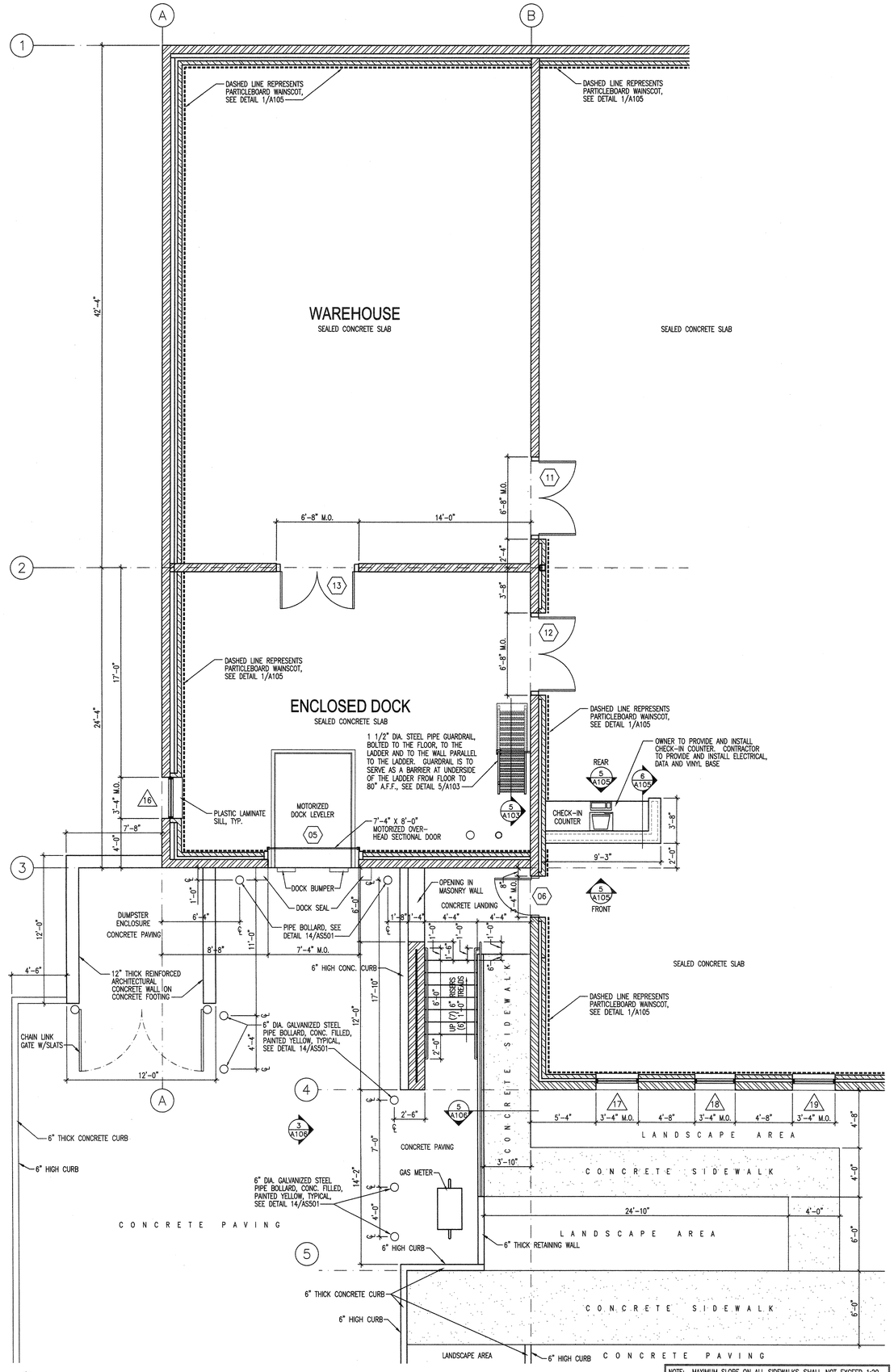
5 A106 SECTION AT SIDEWALK AND RAILING
SCALE: 1/2" = 1'-0"



4 A106 CONCRETE REVEAL DETAIL
SCALE: NONE



3 A106 ELEVATION AT EXTERIOR STAIRS AND SIDEWALK
SCALE: 1/4" = 1'-0"



1 A106 ENLARGED FLOOR PLAN AND SITE PLAN AT DOCK
SCALE: 1/4" = 1'-0"

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ENLARGED FLOOR PLANS AND MISCELLANEOUS DETAILS

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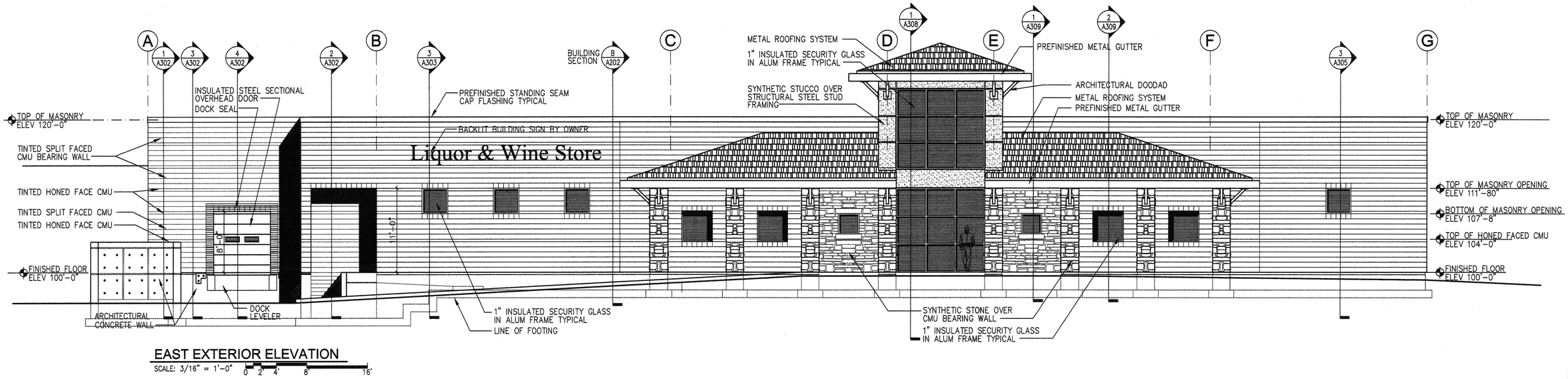
STATE OF UTAH
FRANK N. MURDOCK
124498
REGISTERED ARCHITECT

REVISION # DATE:

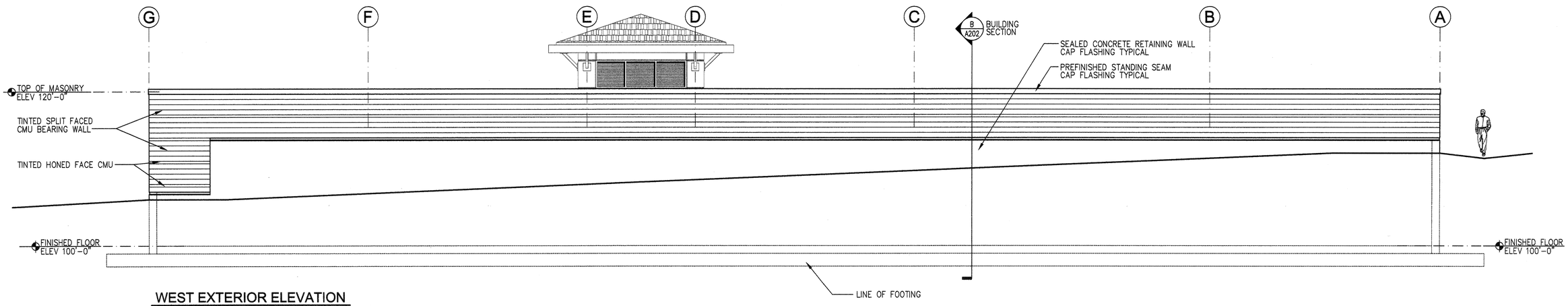
DFCM PROJECT NO.:
08227030
CONST. DOC.
FILE NAME: ABCCC-A106
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
106



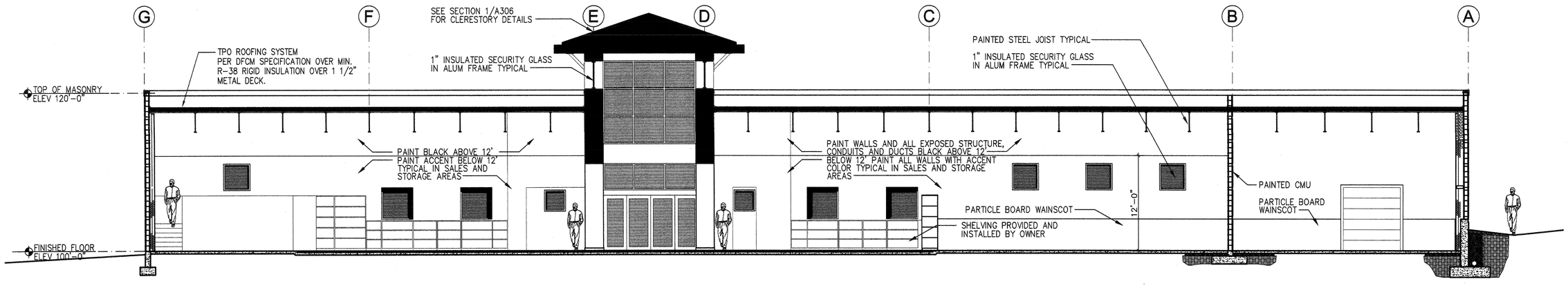
EAST EXTERIOR ELEVATION

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



WEST EXTERIOR ELEVATION

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



A 201 NORTH/SOUTH BUILDING SECTION

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

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EAST & WEST EXTERIOR ELEVATIONS & BUILDING SECTION

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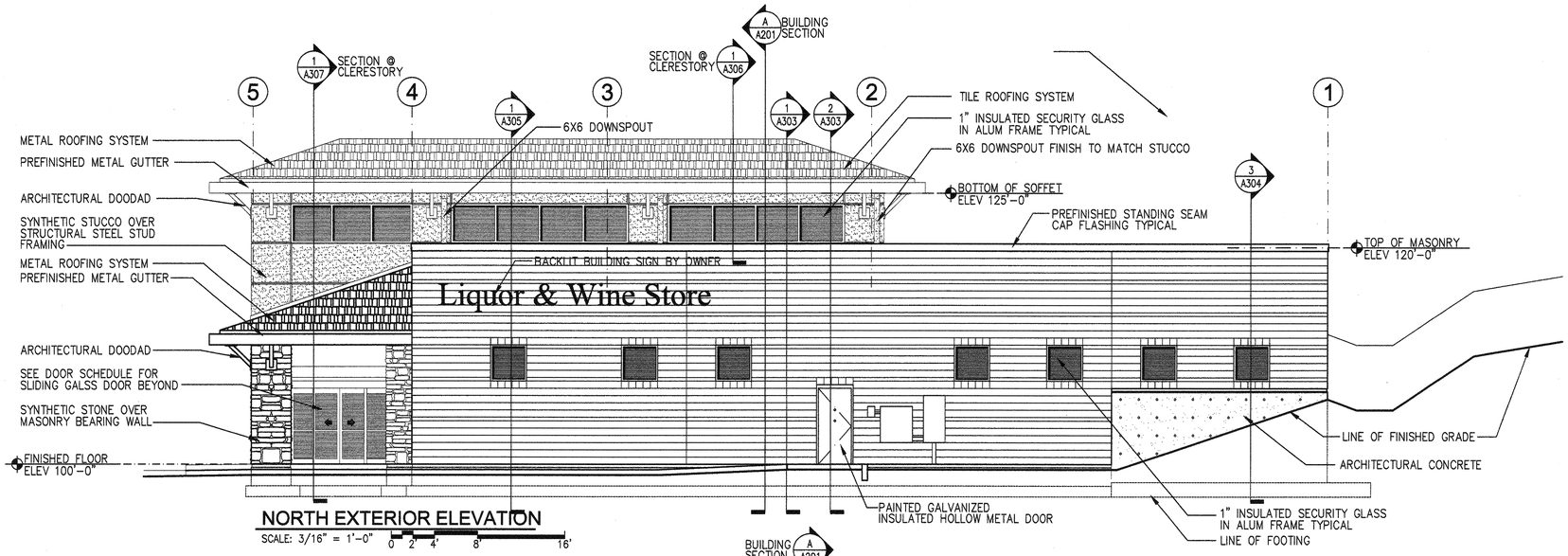
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

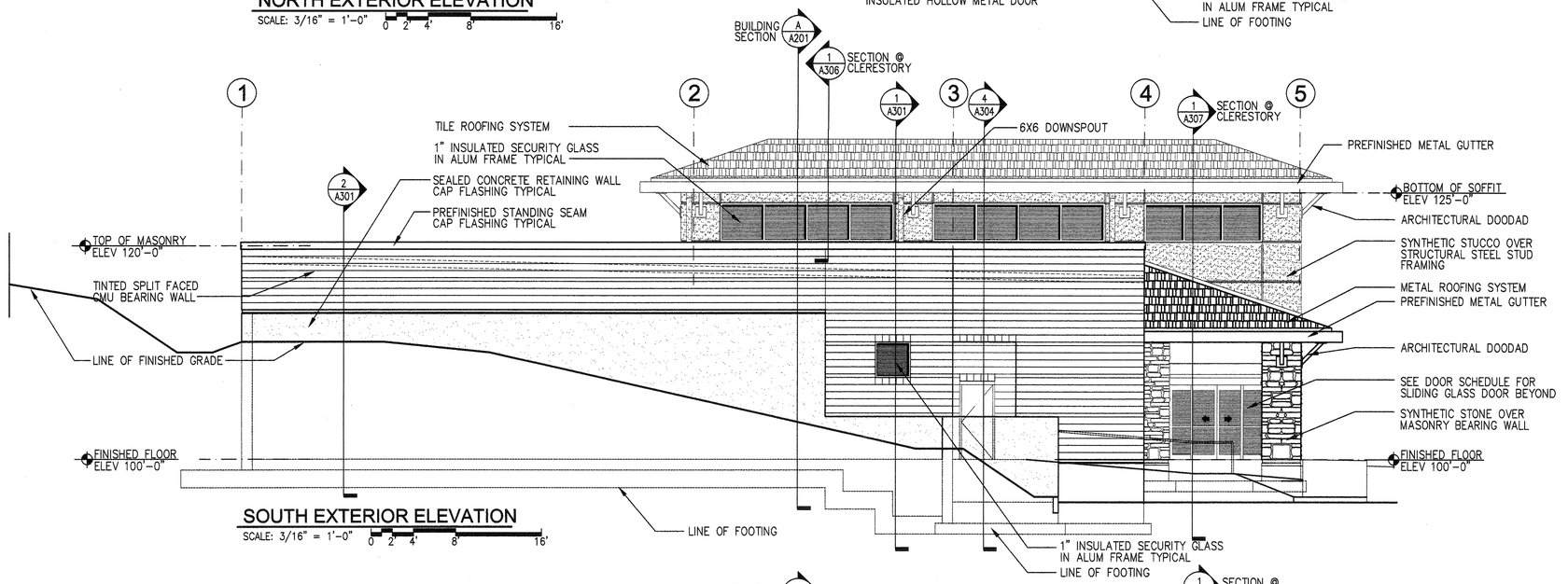
STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

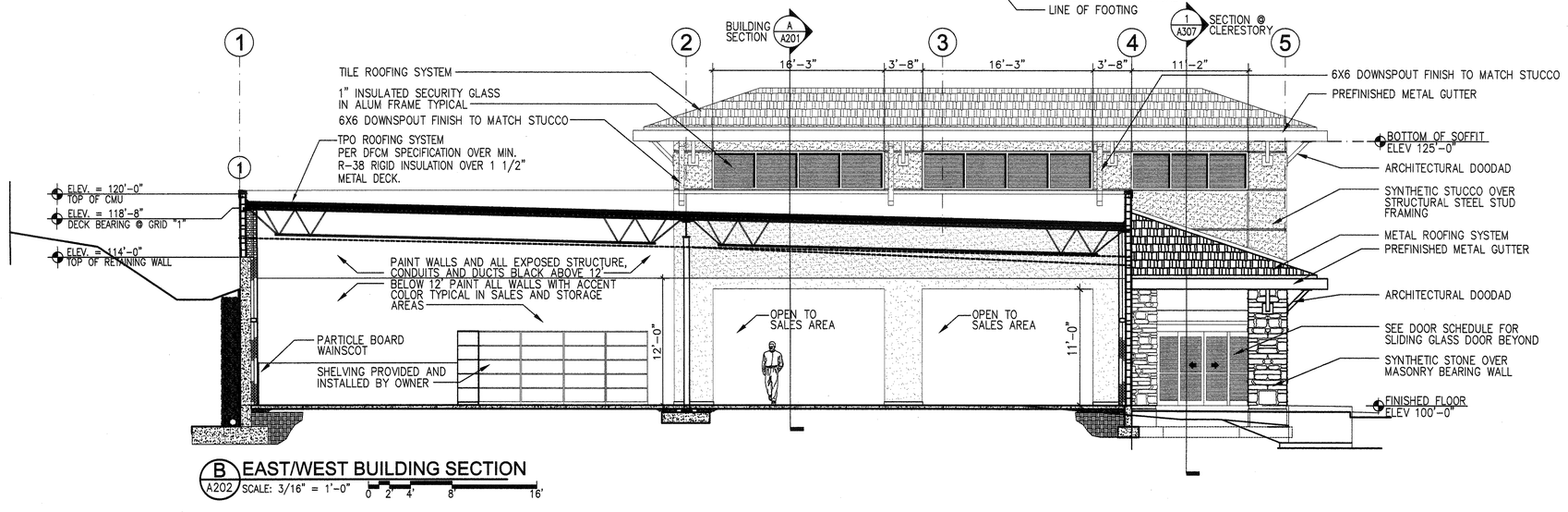
REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A201
PLOT SCALE: 3/16"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
201







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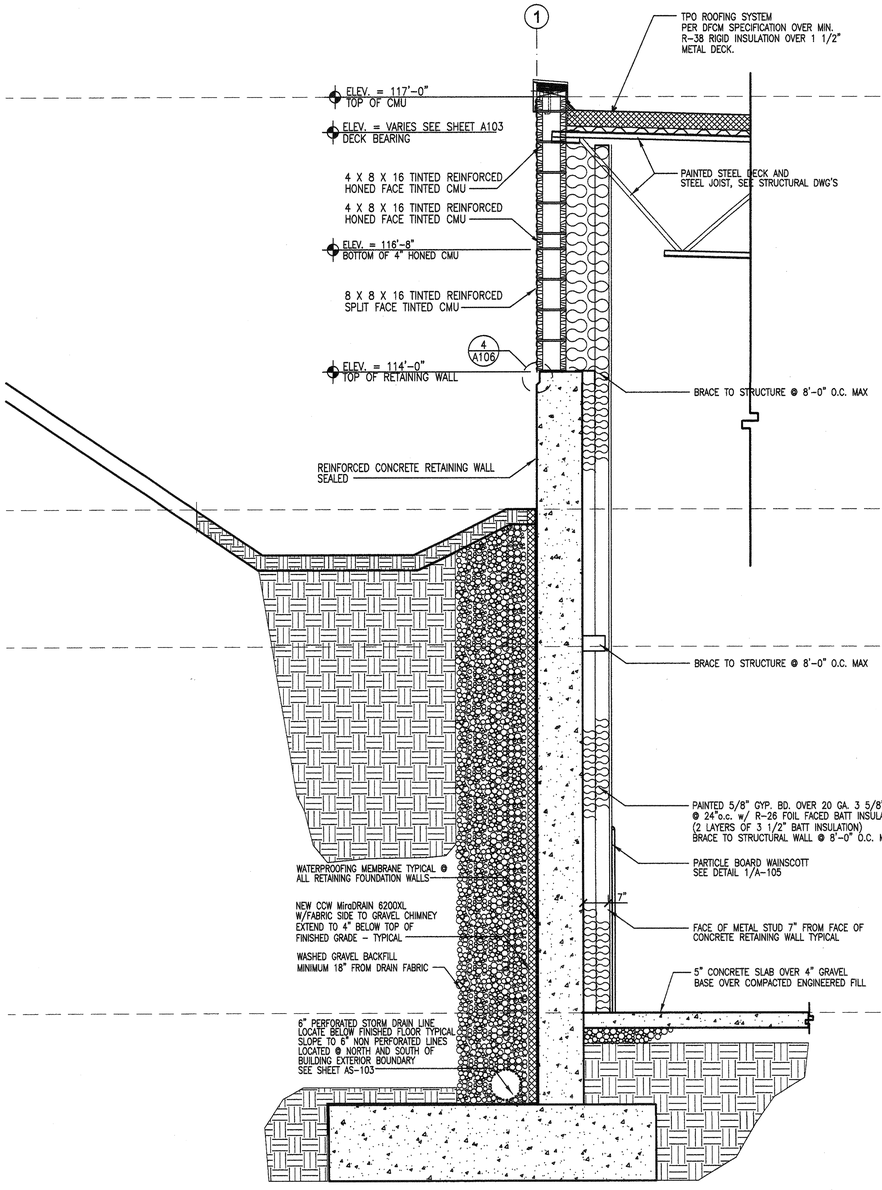
NORTH & SOUTH EXTERIOR ELEVATIONS & BUILDING SECTION

STATE OF UTAH FRANK N. MURDOCK 12498 REGISTERED LICENSED ARCHITECT

REVISION # DATE:

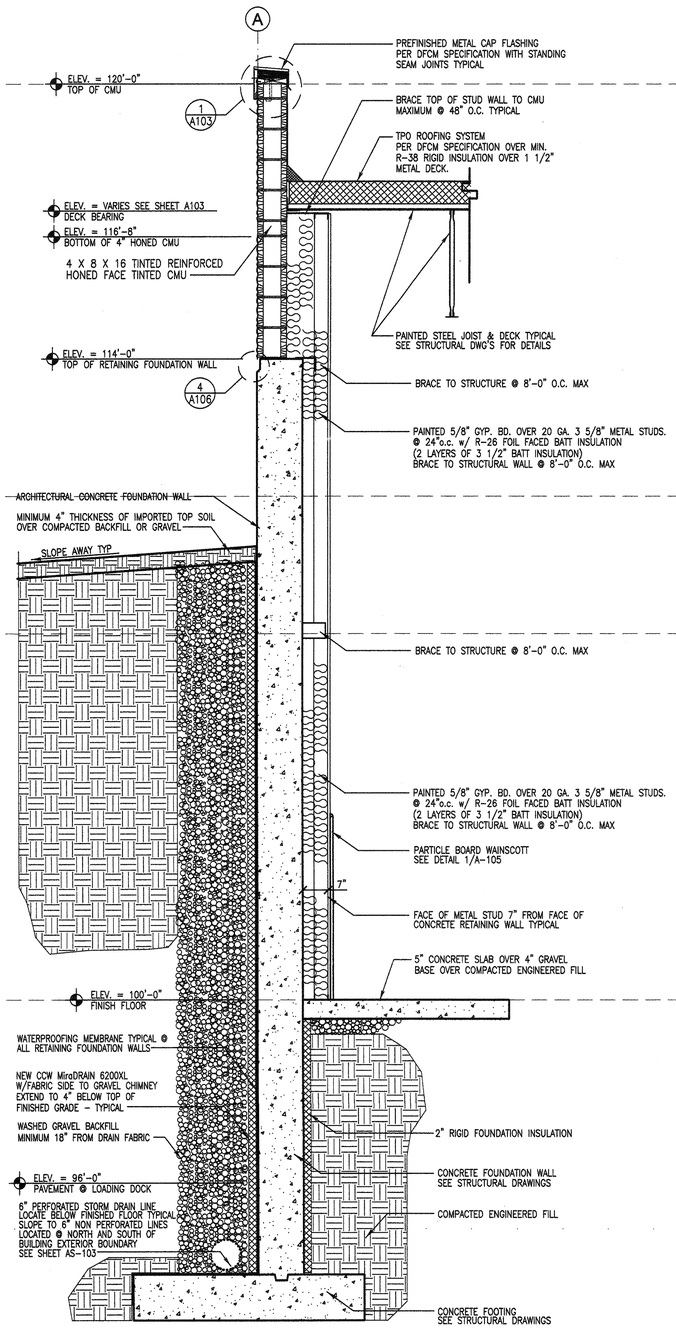
DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A202
PLOT SCALE: 3/16"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
202

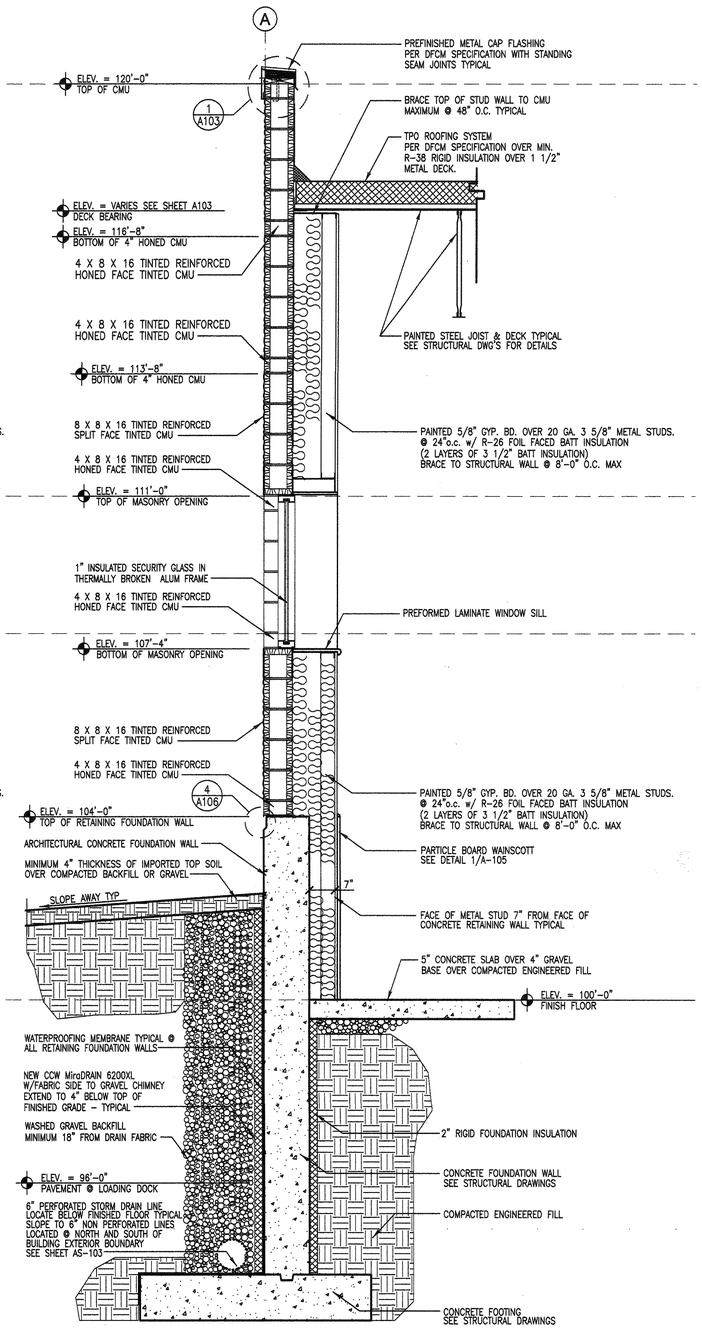


NOTE:
SEE STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATION
SEE SOILS REPORT FOR MINIMUM DEPTH OF SOIL TO BOTTOM OF FOOTINGS, AND OVER EXCAVATION REQUIREMENTS - TYPICAL

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



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



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

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WALL SECTIONS

STATE OF UTAH FRANK N. MURDOCK 124498 REGISTERED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A301
PLOT SCALE: 3/4"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

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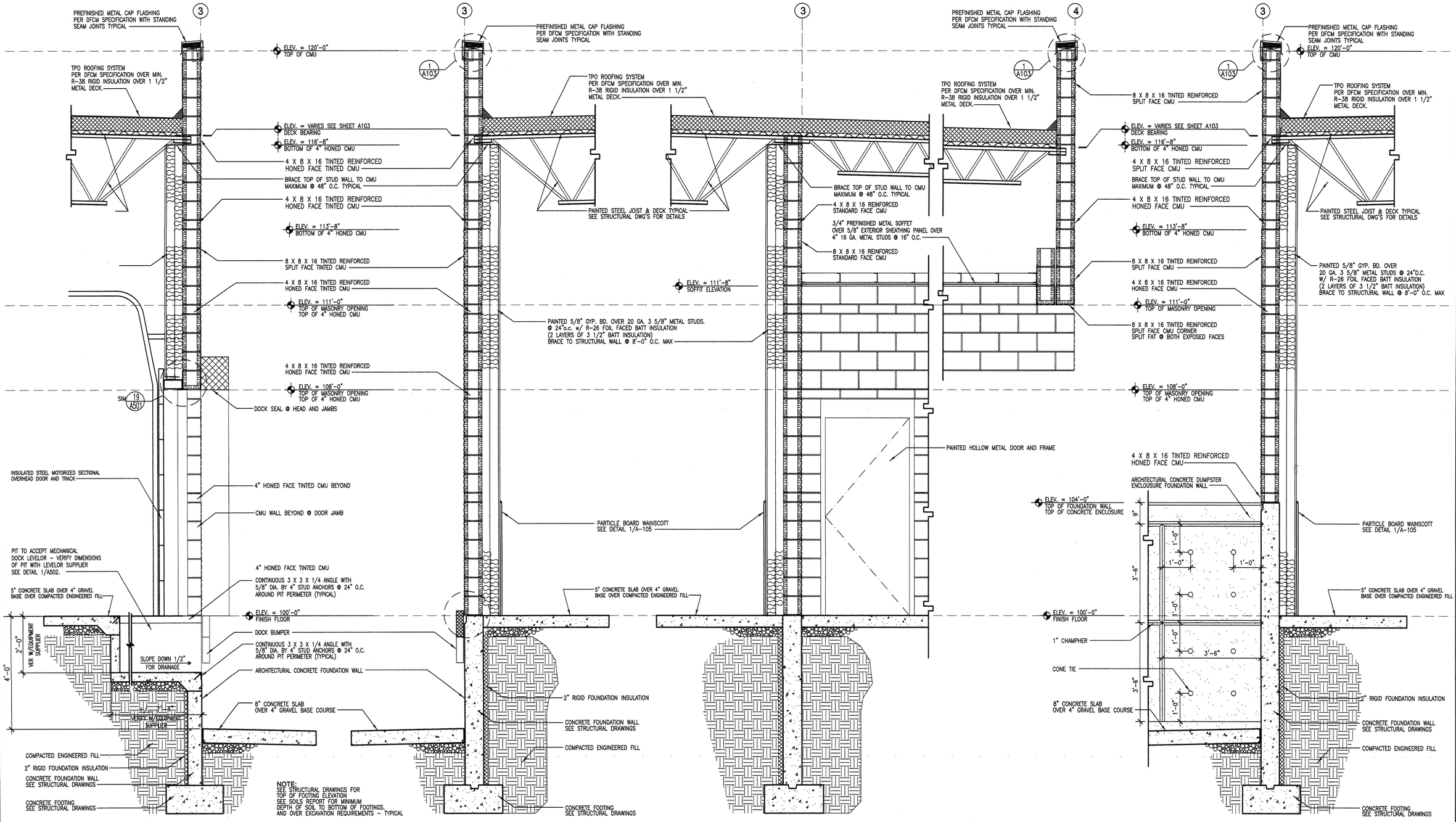
301



4 A302 WALL SECTION @ GRID "3"
SCALE: 3/4" = 1'-0"

3 A302 WALL SECTION @ GRID "3"
SCALE: 3/4" = 1'-0"

2 A302 WALL SECTIONS @ GRIDS "3" & "4"
SCALE: 3/4" = 1'-0"

1 A302 WALL SECTION @ GRID "3"
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

STATE OF UTAH FRANK N. MURDOCK 224498 LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A302
PLOT SCALE: 3/4"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

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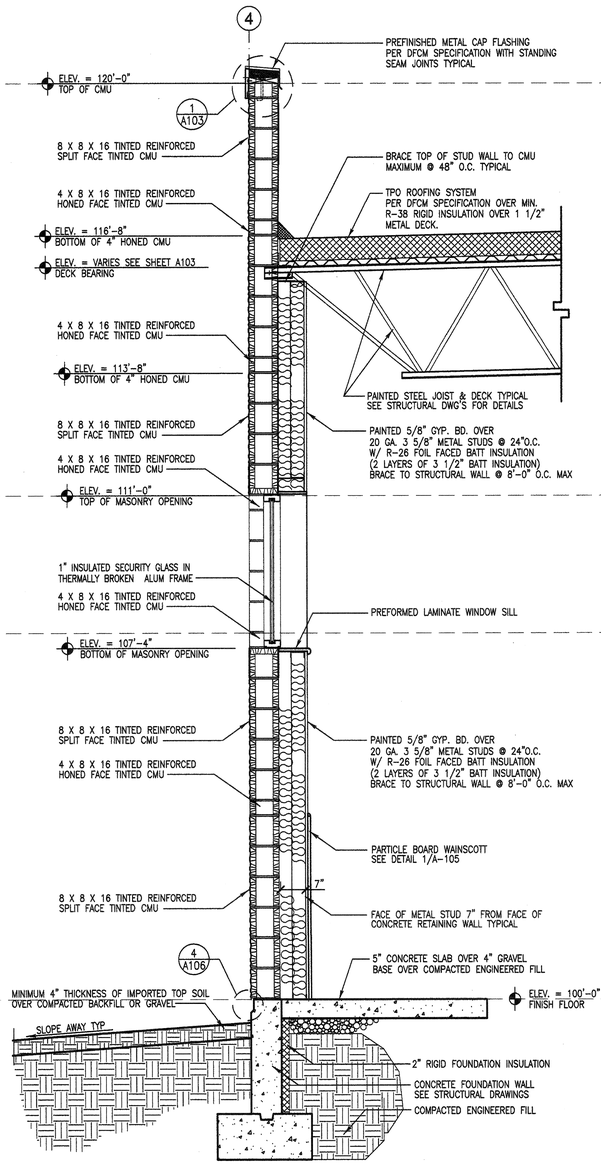
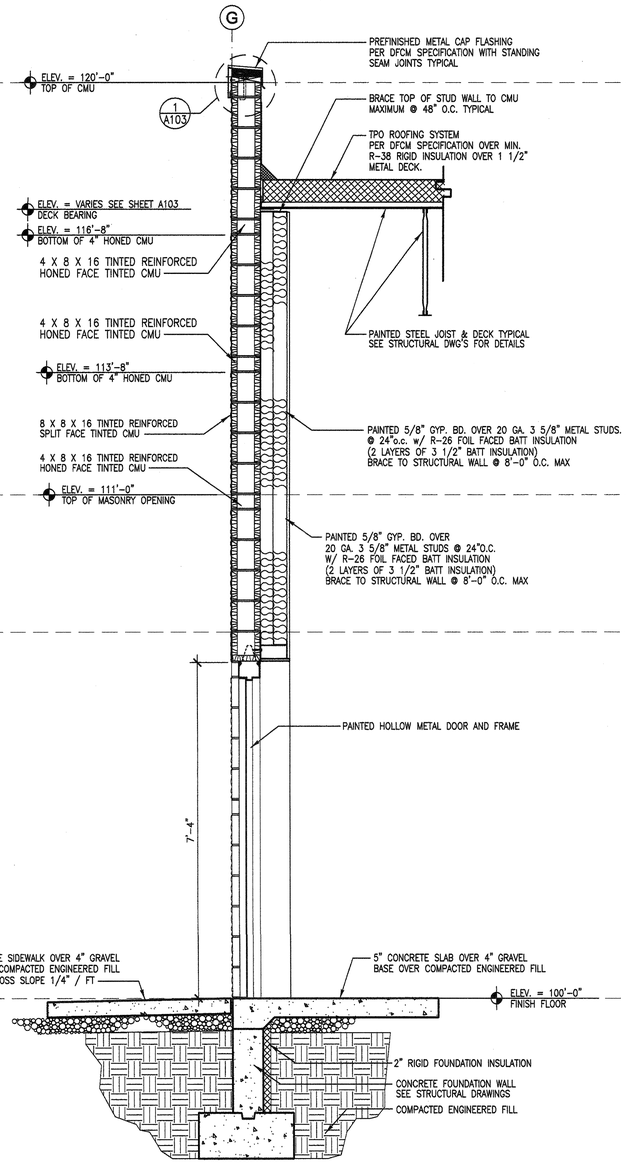
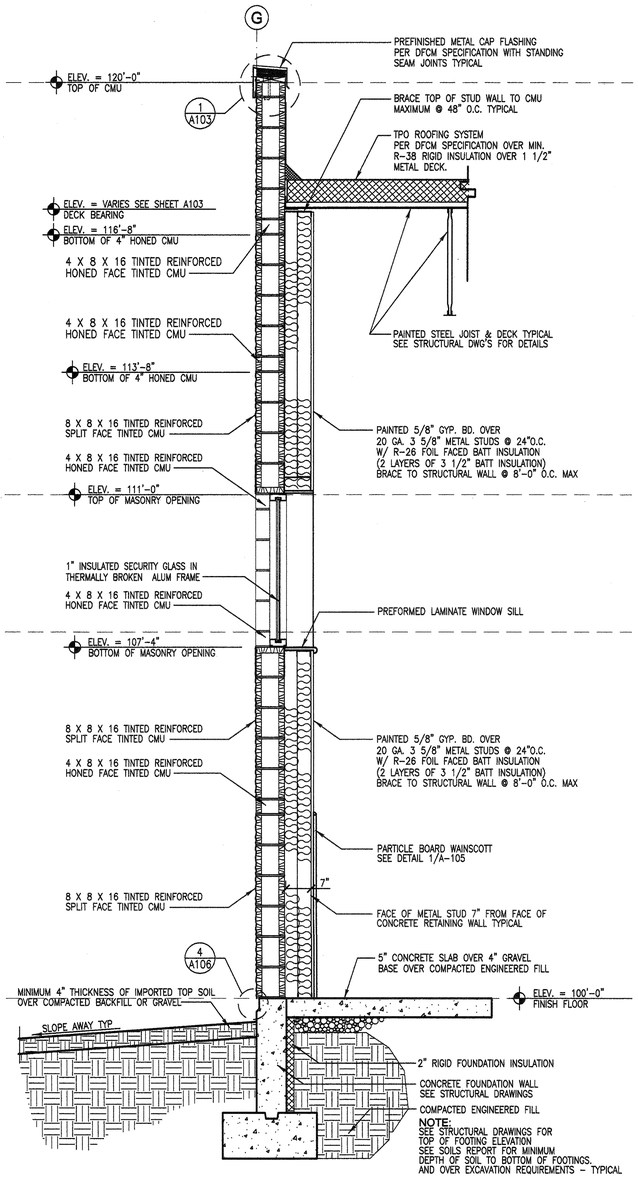
302



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



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



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

NOTE:
SEE STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATION
SEE SOILS REPORT FOR MINIMUM DEPTH OF SOIL TO BOTTOM OF FOOTINGS, AND OVER EXCAVATION REQUIREMENTS - TYPICAL

NEW CEDAR CITY LIQUOR STORE

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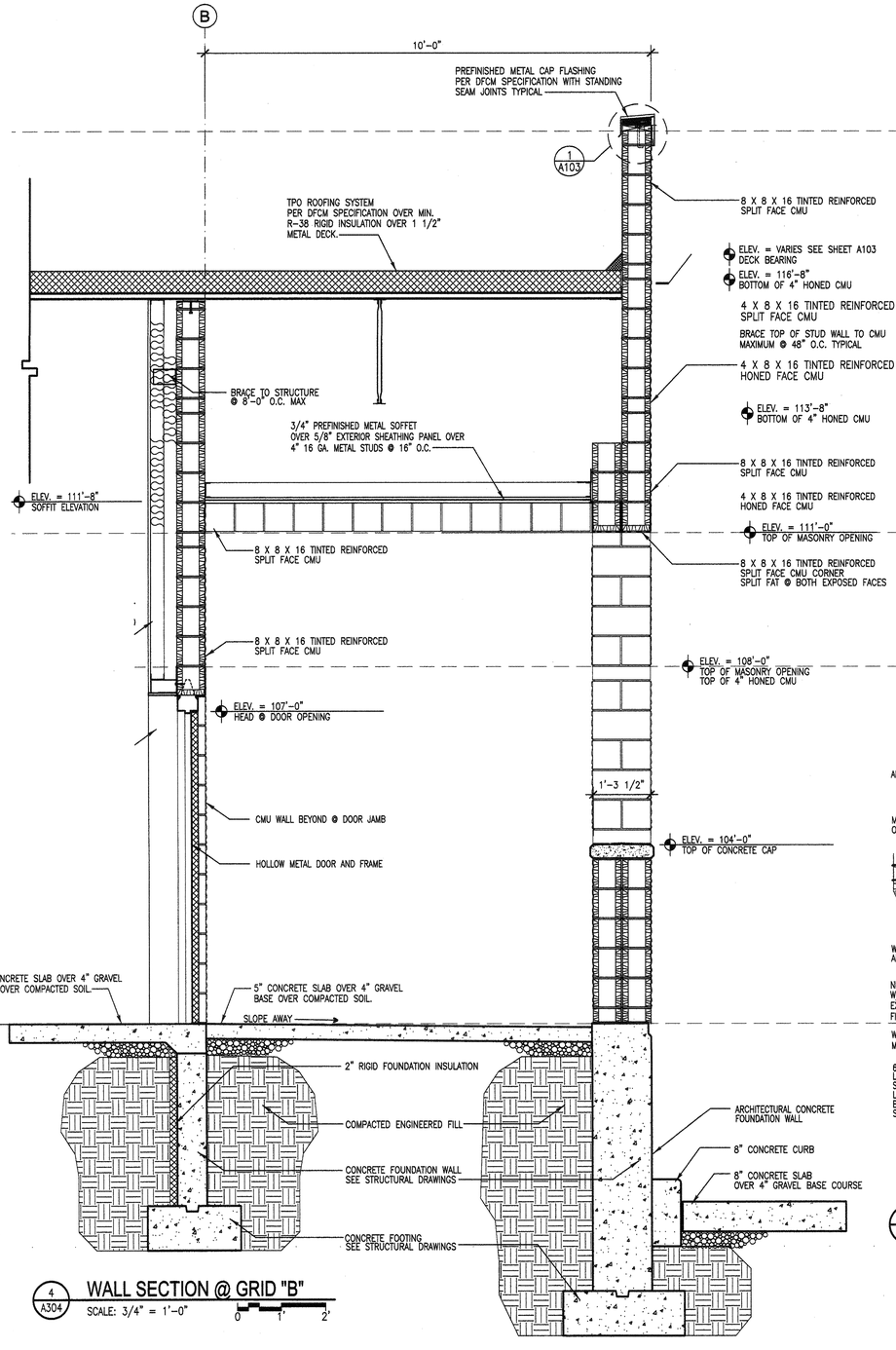
WALL SECTIONS

STATE OF UTAH FRANK N. MURDOCK 124898 REGISTERED LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A303
PLOT SCALE: 75 = 12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
303



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WALL SECTIONS

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124498
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LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A304
PLOT SCALE: .75 = 12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

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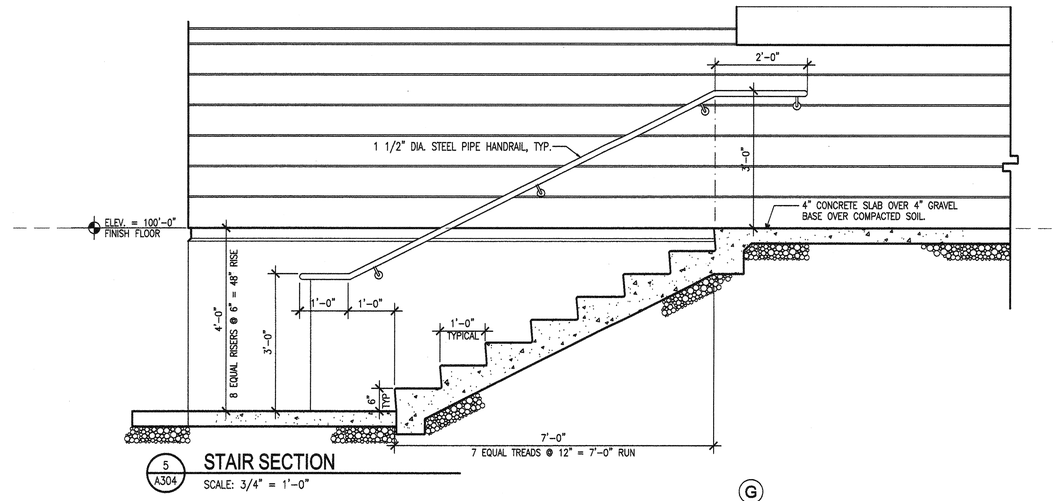
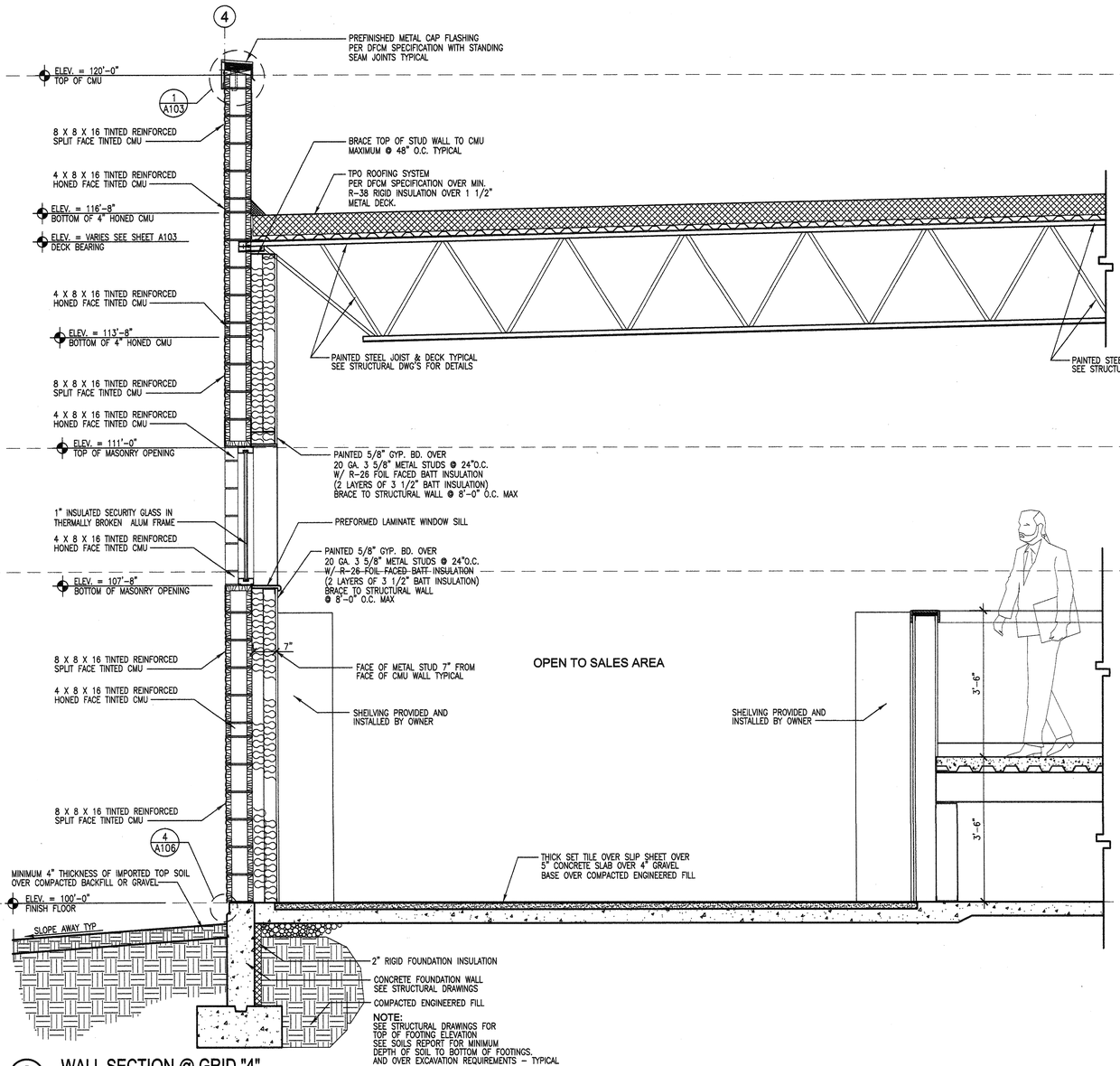
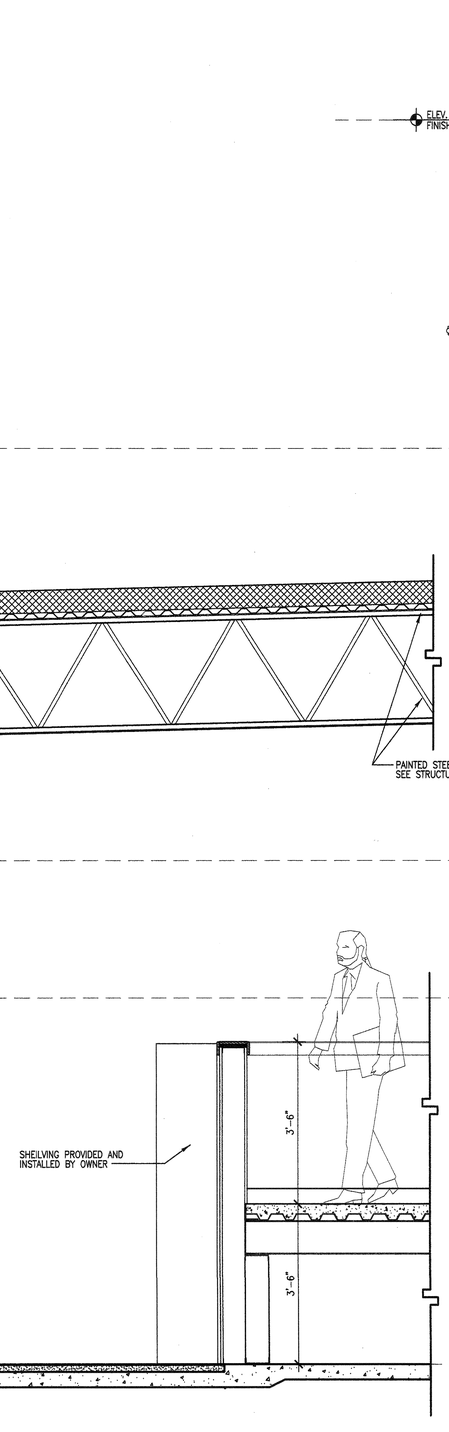
304

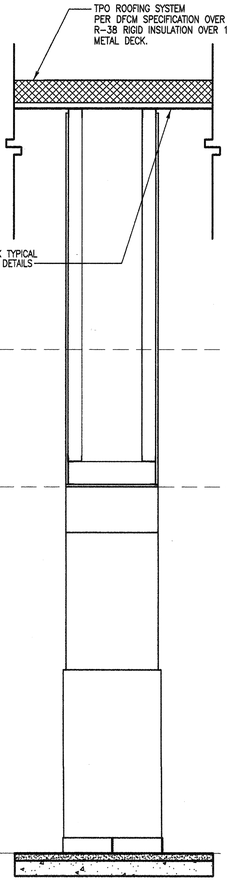


5 / A304 **STAIR SECTION**
SCALE: 3/4" = 1'-0"



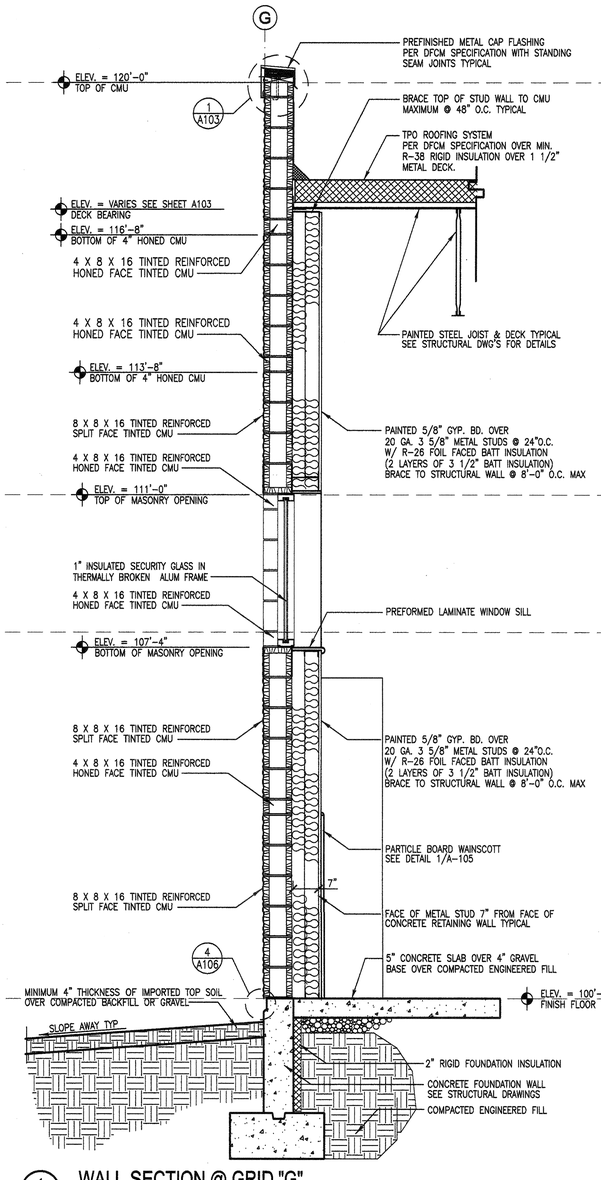
3 / A305 **WALL SECTION @ GRID "4"**
SCALE: 3/4" = 1'-0"





NOT USED

2 / A305 **WALL SECTION @ OPENING**
SCALE: 3/4" = 1'-0"



1 / A305 **WALL SECTION @ GRID "G"**
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

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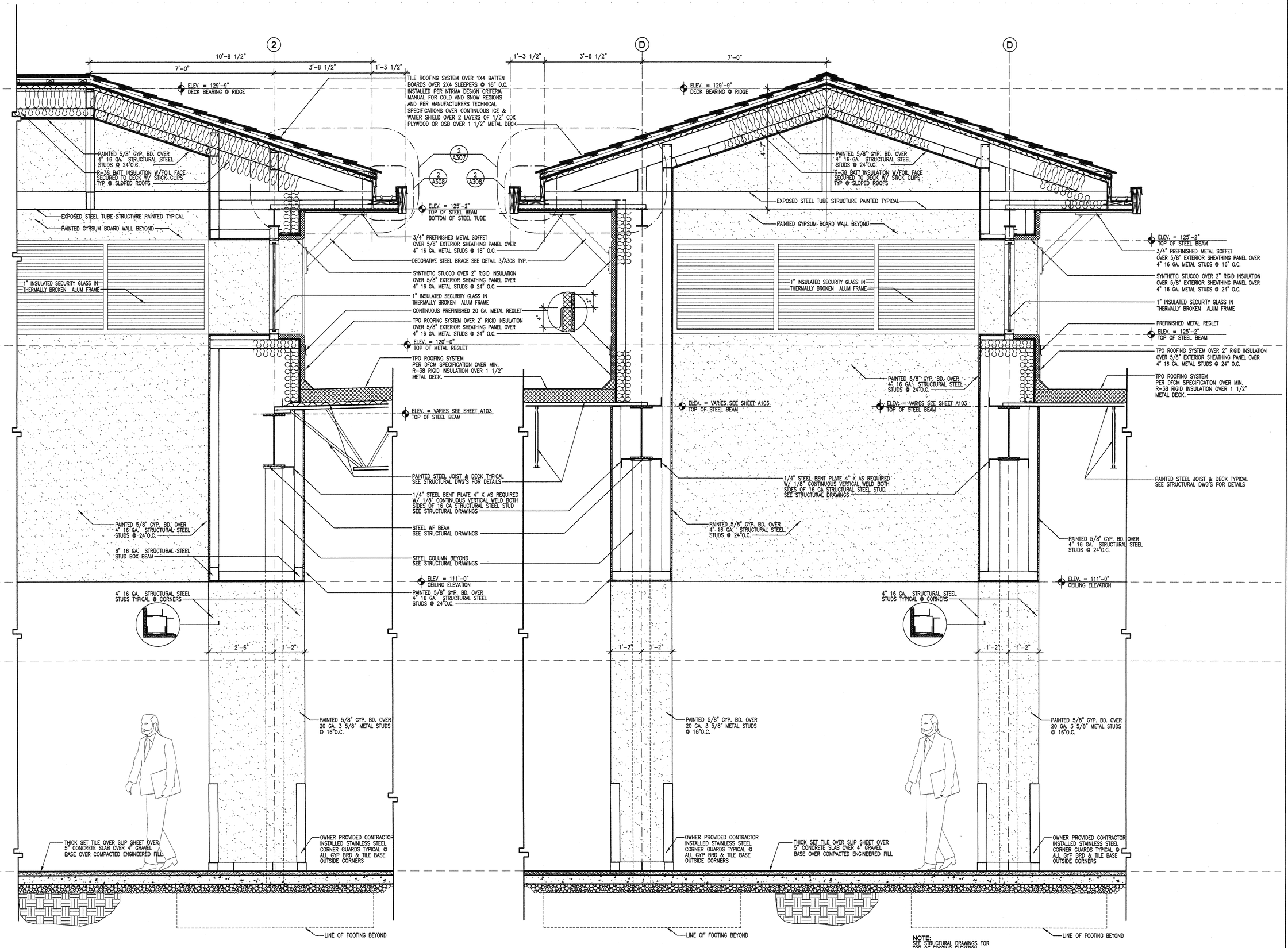
STATE OF UTAH FRANK N. MURDOCK 124498 REGISTERED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A305
PLOT SCALE: .75 = 12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
305



2 A306 WALL SECTION @ GRID "2"
SCALE: 3/4" = 1'-0"

1 A306 WALL SECTION @ GRIDS "D" & "E"
SCALE: 3/4" = 1'-0"

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REVISION #	DATE:

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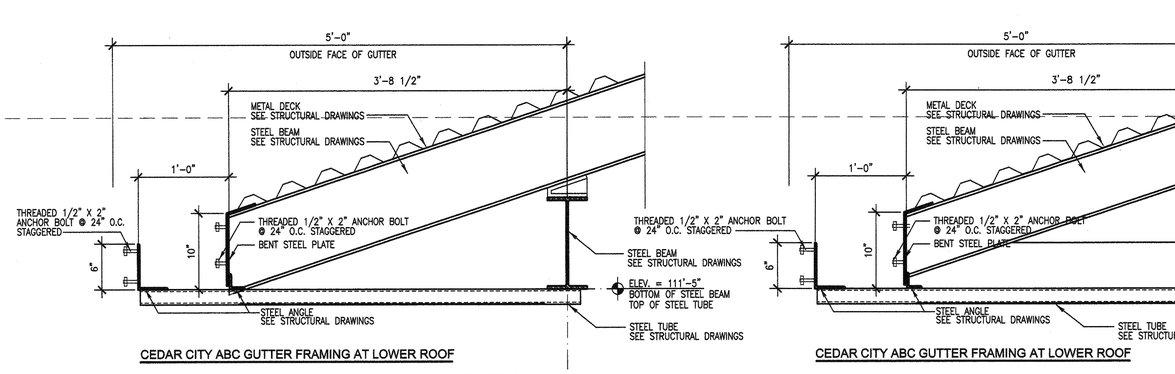
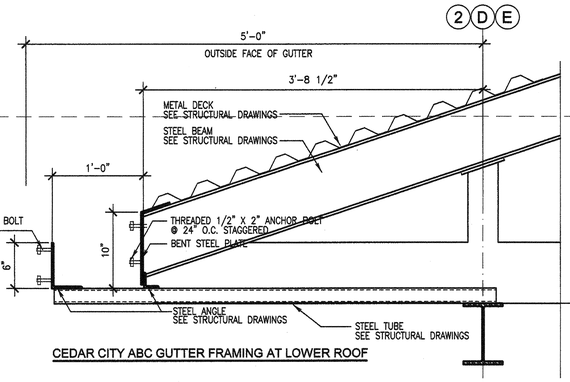
CONSTR. DOC.
FILE NAME: ABCCC-A306
PLOT SCALE: .75 = 12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A 306



CEDAR CITY ABC GUTTER FRAMING AT LOWER ROOF

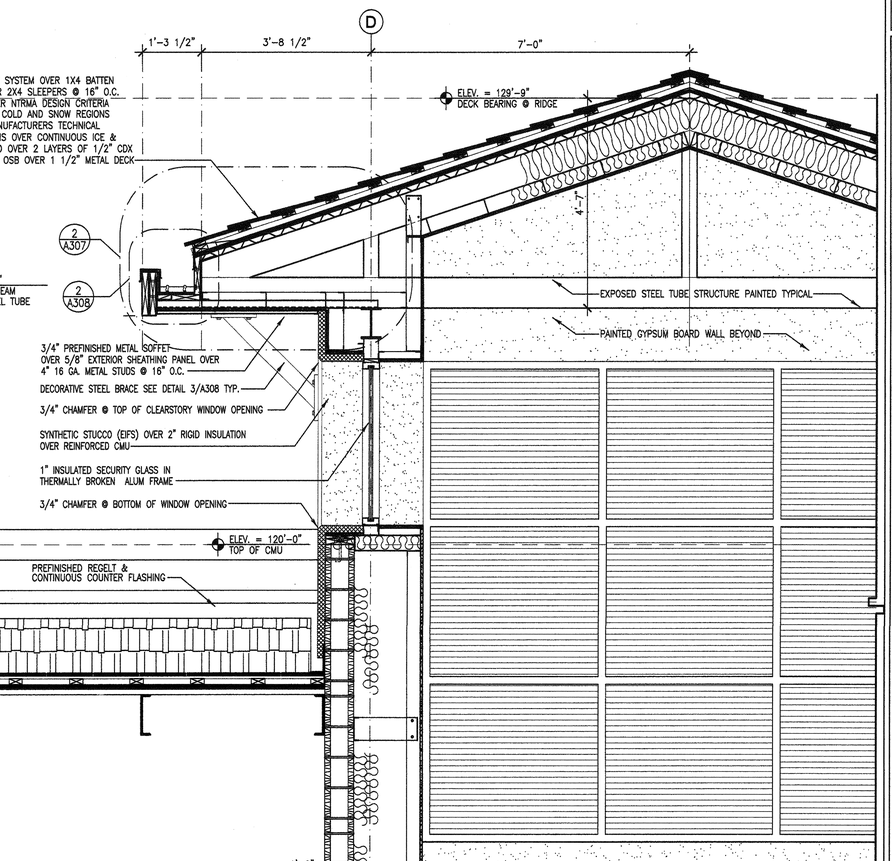


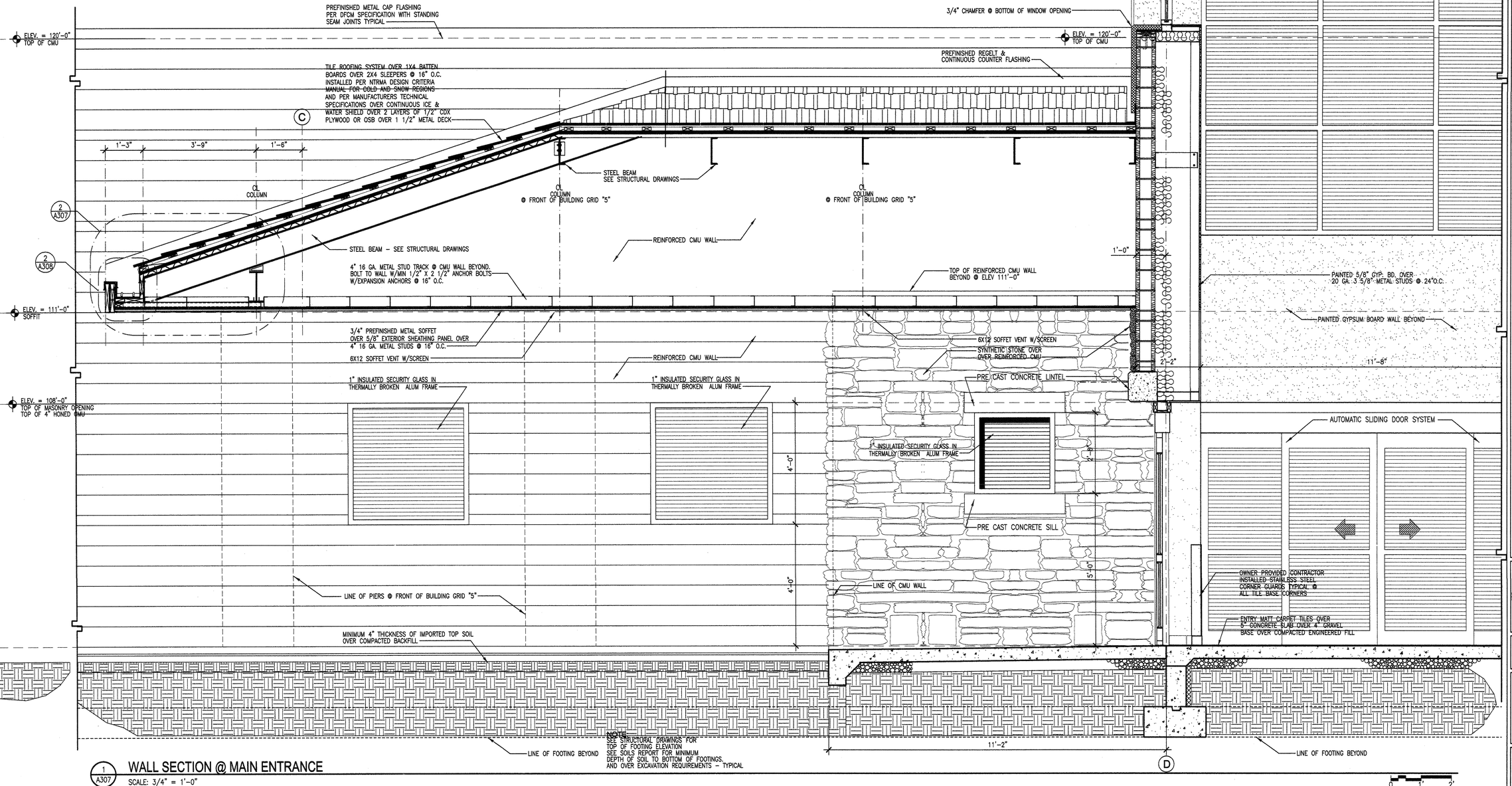
CEDAR CITY ABC GUTTER FRAMING AT LOWER ROOF

2/A307 DETAIL @ SLOPED ROOF GUTTERS

SCALE: 1 1/2" = 1'-0"

0 6" 12"





1/A307 WALL SECTION @ MAIN ENTRANCE

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

0 1' 2'

NEW CEDAR CITY LIQUOR STORE

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PLOT SCALE: .75 = 12
DRAWN BY: STAFF
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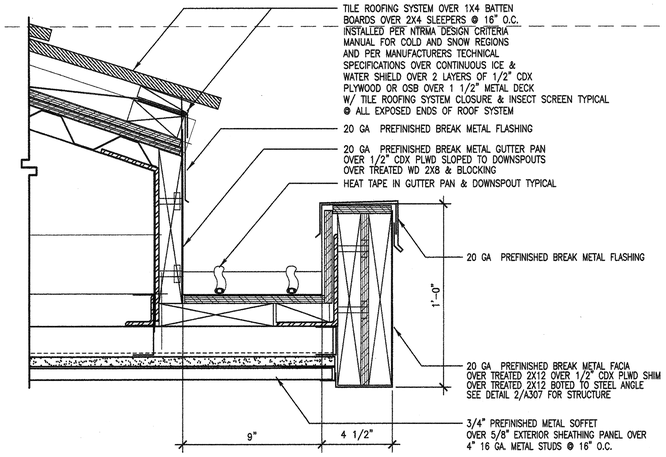
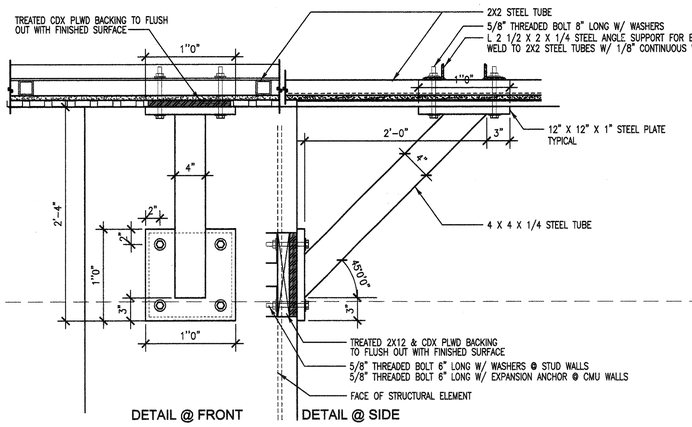
A
307



2/A308 TYPICAL SLOPED ROOF GUTTER DETAIL

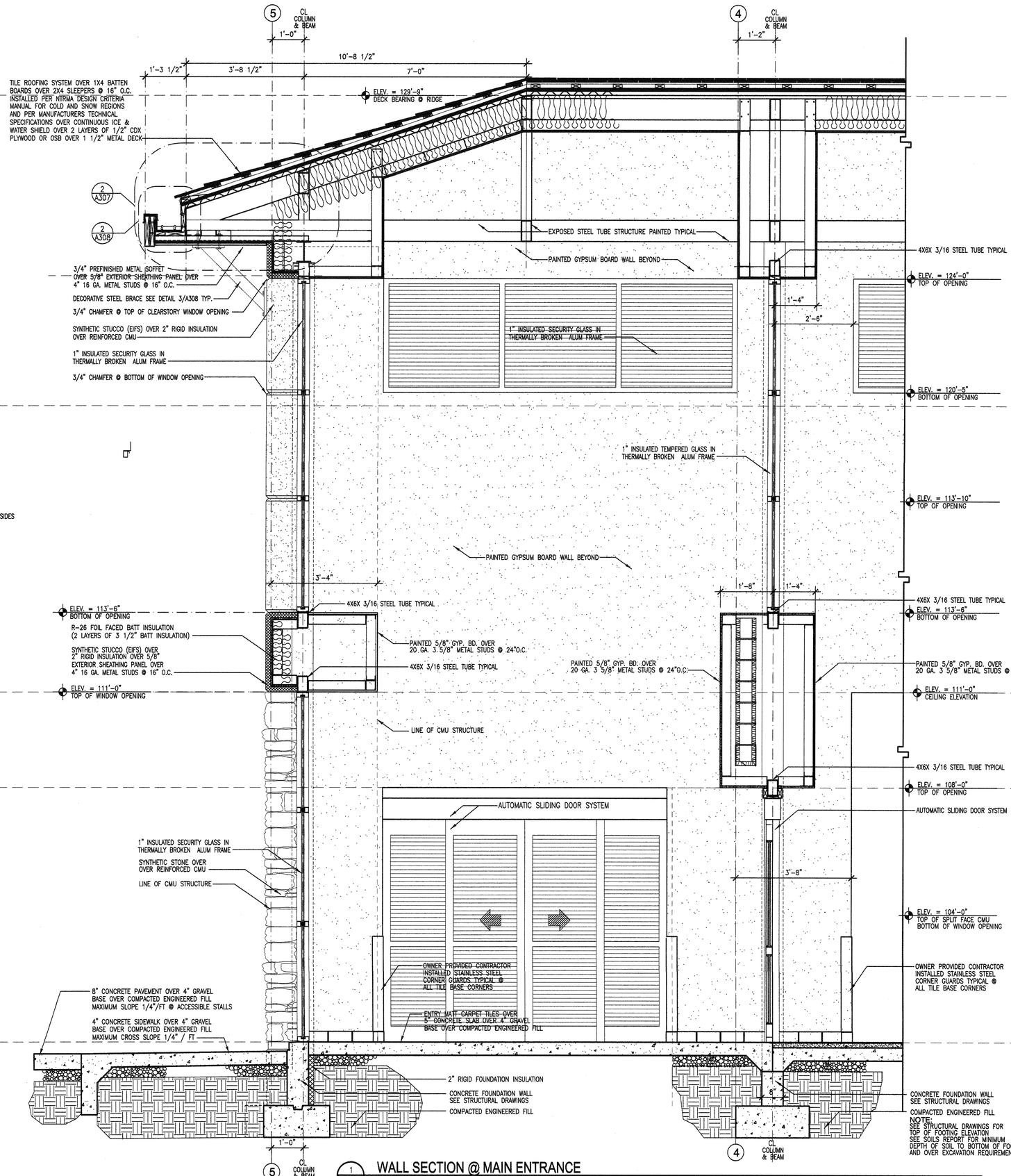
SCALE: 3" = 1'-0"



PROVIDE AND INSTALL 22 DECORATIVE STEEL BRACES IN LOCATION AS INDICATED ON THE EXTERIOR ELEVATIONS SHEET A201 & A202

3/A308 TYPICAL ARCHITECTURAL DECORATIVE BRACE (DODAD)

SCALE:1 1/2" = 1'-0"



1/A308 WALL SECTION @ MAIN ENTRANCE

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

NEW CEDAR CITY LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

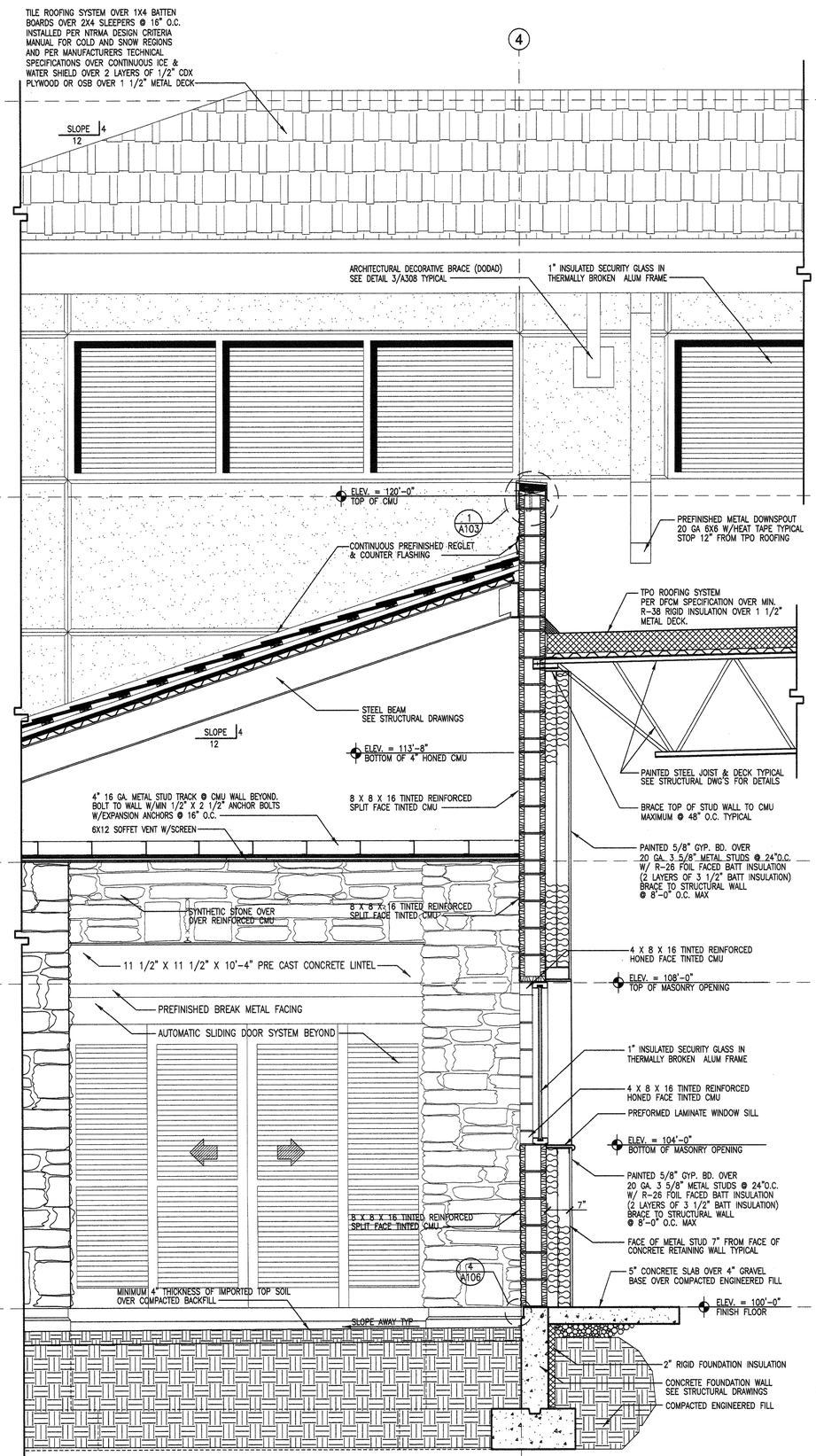
WALL SECTIONS

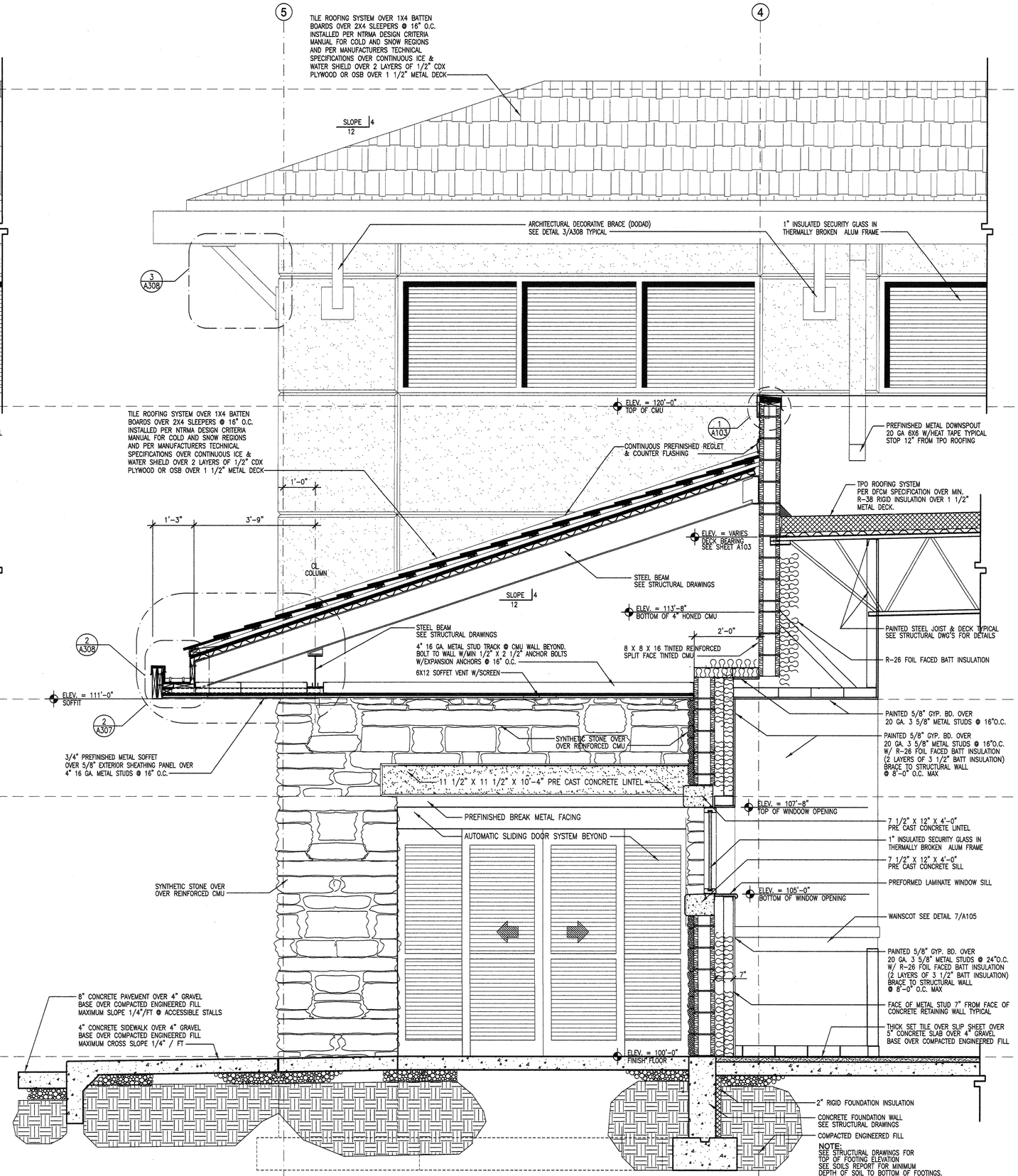
STATE OF UTAH FRANK N. MURDOCK 176807 REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A308
PLOT SCALE: .75 = 12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
308





NEW CEDAR CITY LIQUOR STORE

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CEDAR CITY, UTAH

WALL SECTIONS

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

STATE OF UTAH — FRANK N. MURDOCK JR. — 4-0100 — REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A309
PLOT SCALE: .75 = 12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

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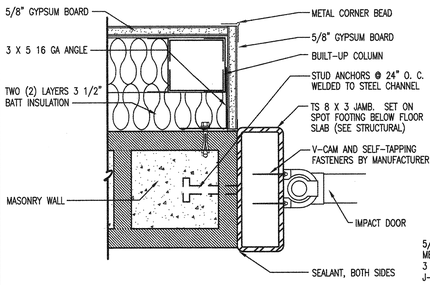
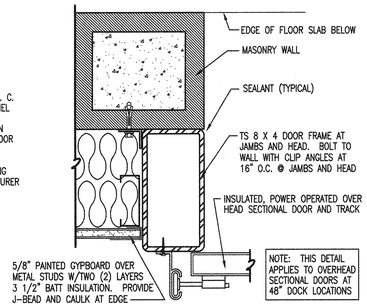
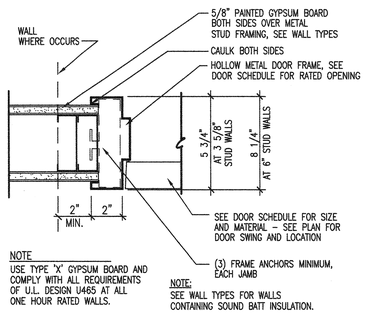
309



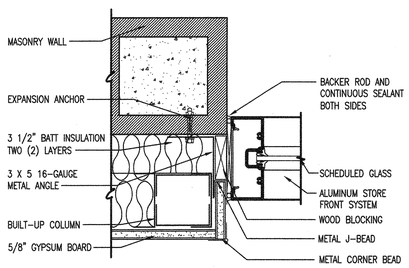
18 A501 IMPACT DOOR JAMB/head sim.
SCALE: NONE



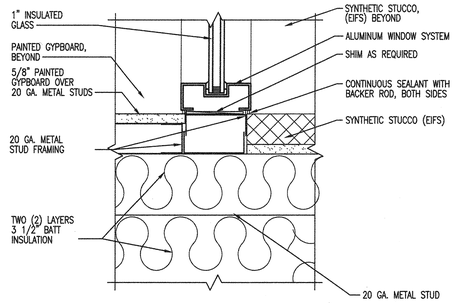
19 A501 OVERHEAD DOOR JAMB
SCALE: NONE



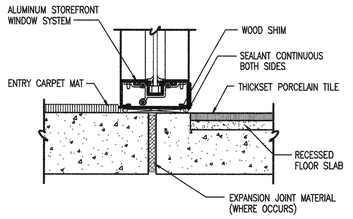
20 A501 HOLLOW METAL DOOR (INTERIOR)
SCALE: NONE



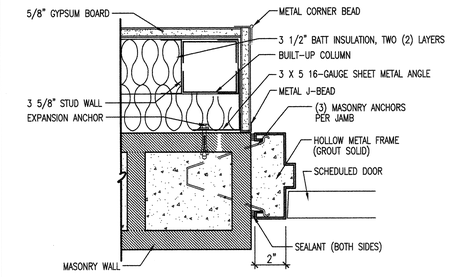
21 A501 STOREFRONT WINDOW JAMB
SCALE: NONE



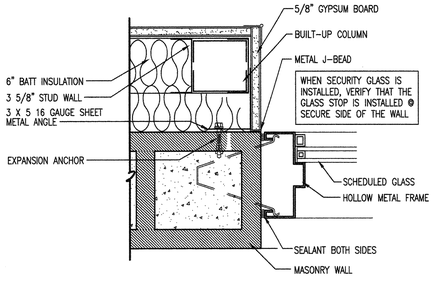
22 A501 STOREFRONT WINDOW SILL
SCALE: NONE



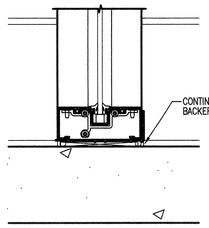
23 A501 STOREFRONT WINDOW SILL
SCALE: NONE



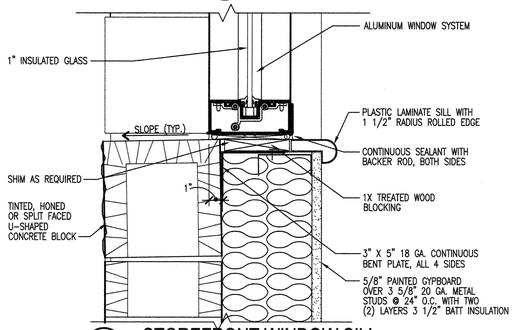
17 A501 HOLLOW METAL DOOR JAMB
SCALE: NONE



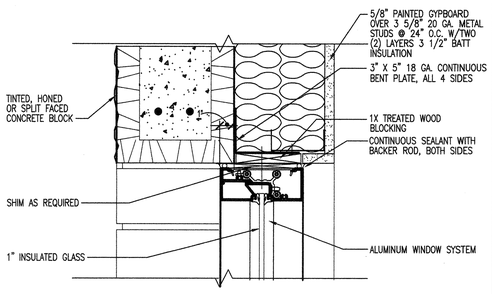
16 A501 HOLLOW METAL WINDOW JAMB
SCALE: NONE



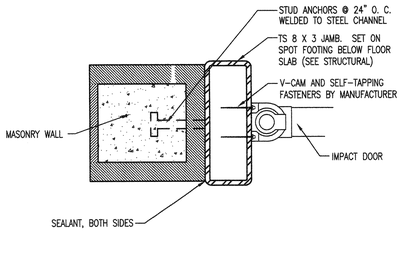
15 A501 STOREFRONT WINDOW SILL
SCALE: NONE



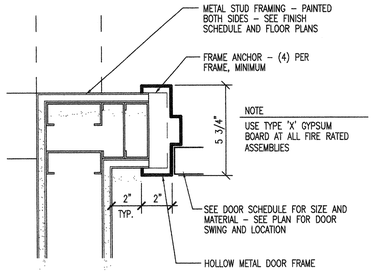
14 A501 STOREFRONT WINDOW SILL
SCALE: NONE



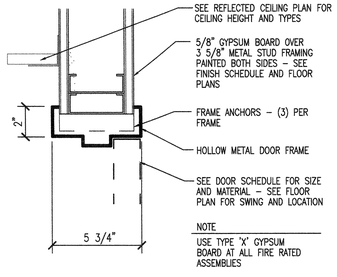
13 A501 STOREFRONT WINDOW HEAD
SCALE: NONE



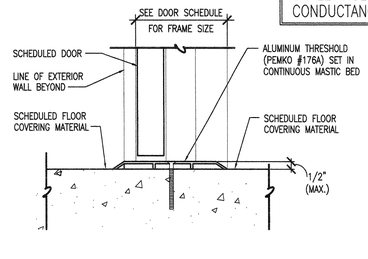
7 A501 IMPACT DOOR JAMB
SCALE: NONE



8 A501 DOOR JAMB DETAIL
SCALE: NONE

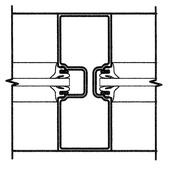


9 A501 DOOR HEAD
SCALE: NONE

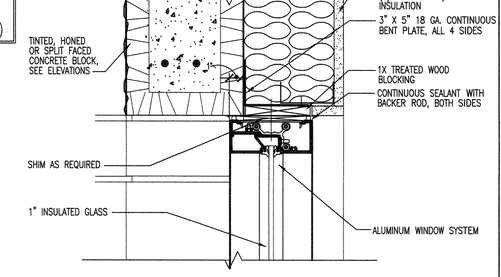


10 A501 DOOR THRESHOLD
SCALE: NONE

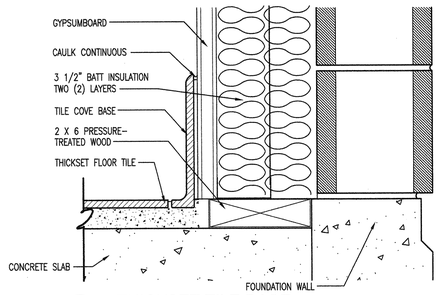
NOTE: ALL ALUMINUM WINDOW AND DOOR FRAMES SHALL INCLUDE AN INTEGRALLY CONCEALED LOW CONDUCTANCE THERMAL BARRIER (THERMAL-BREAK)



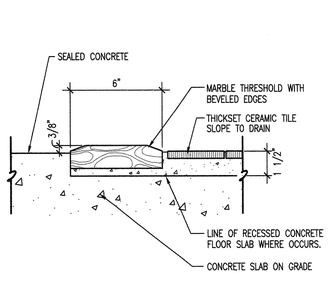
11 A501 STOREFRONT MULLION/MUNTON
SCALE: NONE



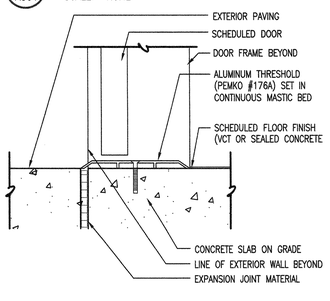
12 A501 STOREFRONT WINDOW JAMB
SCALE: NONE



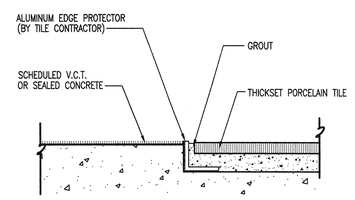
6 A501 THICKSET TILE BASE
SCALE: NONE



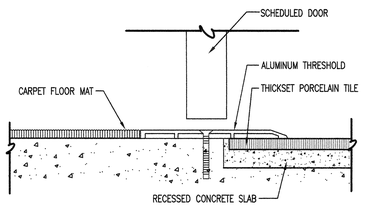
5 A501 MARBLE THRESHOLD
SCALE: NONE



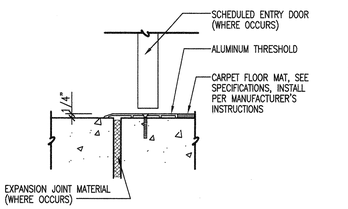
4 A501 DOOR THRESHOLD
SCALE: NONE



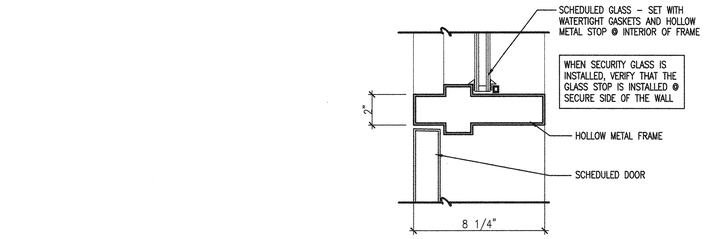
3 A501 CONCRETE TO TILE TRANSITION
SCALE: NONE



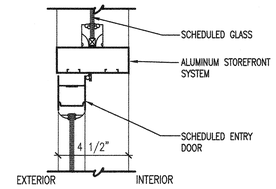
2 A501 TILE TO FLOOR MAT DETAIL
SCALE: NONE



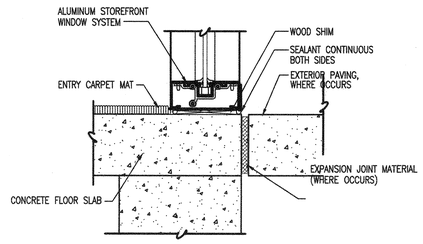
1 A501 DOOR THRESHOLD (entry mat)
SCALE: NONE



26 A501 HM DOOR HEAD/TRANSOM SILL
SCALE: NONE



25 A501 STOREFRONT DOOR HEAD/TRANSOM SILL
SCALE: NONE



24 A501 STOREFRONT WINDOW SILL
SCALE: NONE

NEW CEDAR CITY LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

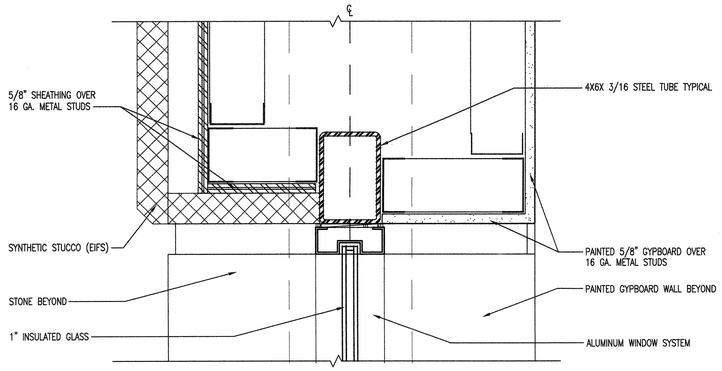
MISCELLANEOUS DETAILS

STATE OF UTAH
FRANK N. MURDOCK
172488
REGISTERED ARCHITECT

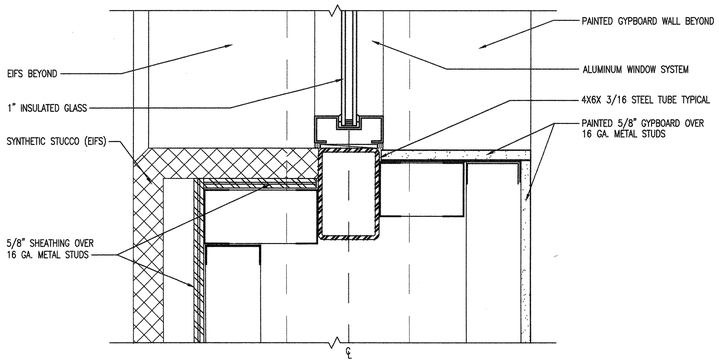
REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A501
PLOT SCALE: 3/12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A 501



10 A502 STOREFRONT WINDOW HEAD
SCALE: NONE



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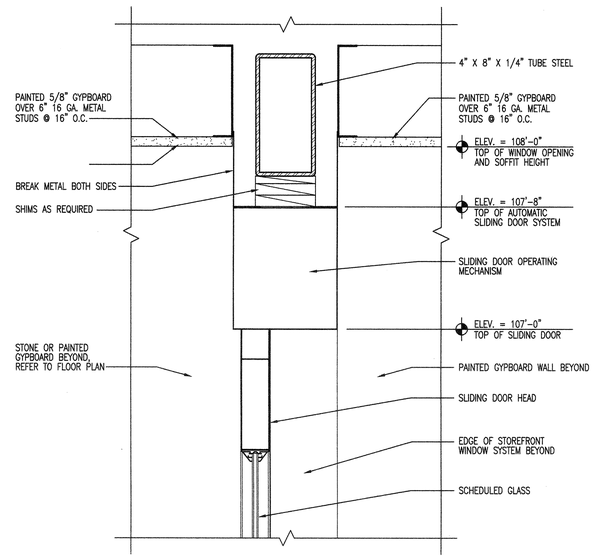
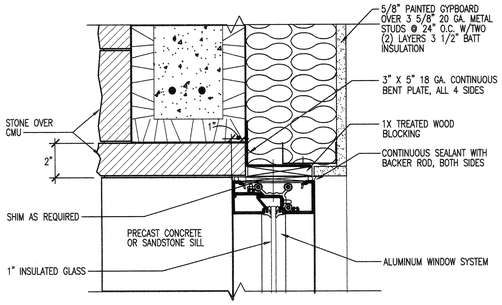
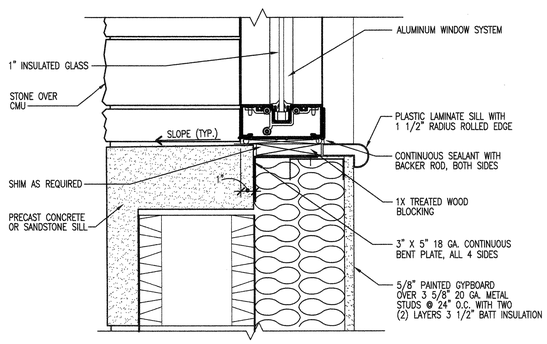
SCALE: NONE



8 A502 AUTOMATIC SLIDING DOOR HEAD
SCALE: NONE



5 A502 STOREFRONT WINDOW JAMB
SCALE: NONE



6 A502 STOREFRONT WINDOW SILL
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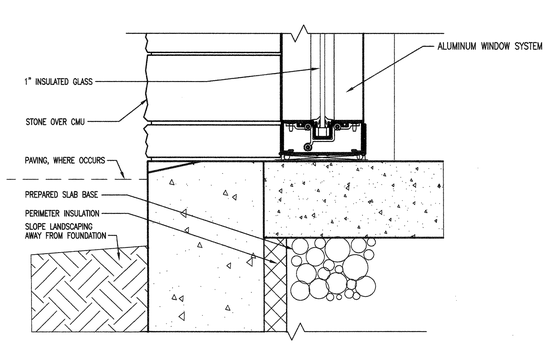

7 A502 STOREFRONT WINDOW SILL
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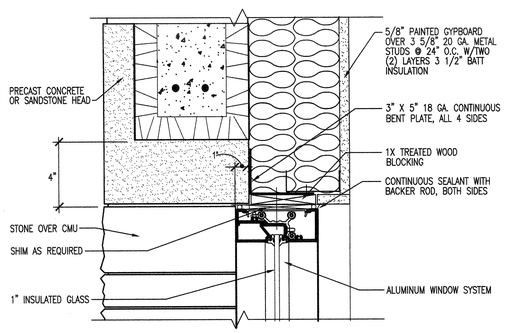
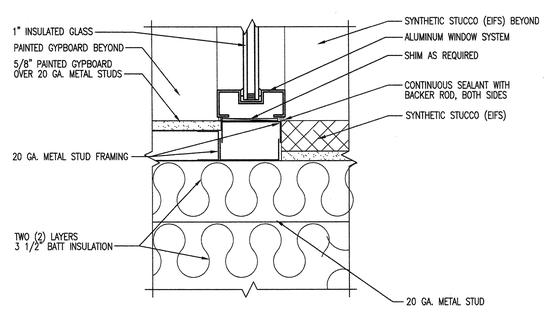
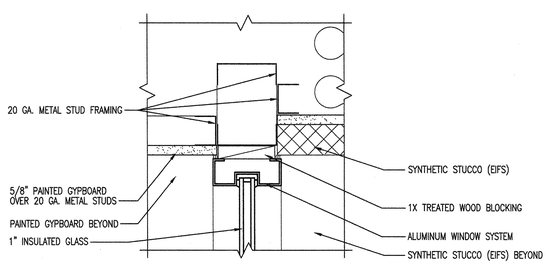


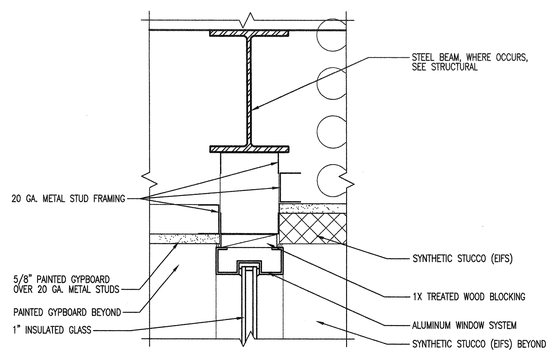
4 A502 STOREFRONT WINDOW HEAD
SCALE: NONE



3 A502 WINDOW SILL
SCALE: NONE



2 A502 WINDOW JAMB
SCALE: NONE



1 A502 WINDOW HEAD
SCALE: NONE

NEW CEDAR CITY LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

MISCELLANEOUS DETAILS

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STATE OF UTAH
FRANK N. MURDOCK
124498
3/31/10
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONSTR. DOC.
FILE NAME: ABCCC-A502
PLOT SCALE: 3:12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

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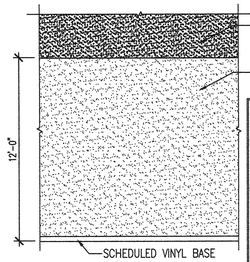
502

FINISH SCHEDULE

ROOM	FLOOR	WALL	BASE	CEILING	HEIGHT	REMARKS
ENTRY VESTIBULE	THINSET TILE/ENTRY MAT	PAINTED GYPBOARD	CERAMIC TILE	PAINTED GYPBOARD	14'-0"	
CLERESTORY	---	PAINTED GYPBOARD	---	PAINTED GYPBOARD	VARIES	
SALES AREA	THICKSET TILE	PAINTED GYPBOARD	CERAMIC TILE	EXPOSED STRUCTURE	VARIES	
STORAGE ROOM	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	PAINTED GYPBOARD	11'-6"	
OFFICE AND STAIRS	CARPET (TILES/BROADLOOM)	PAINTED GYPBOARD	VINYL	EXPOSED STRUCTURE	VARIES	RAISED PLATFORM @ 3'-6" A.F.F.
STORAGE	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	EXPOSED STRUCTURE	VARIES	
JANITOR'S ROOM	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	PAINTED GYPBOARD	11'-6"	PARTIAL TILE @ TWO WALLS, SEE 22/A104
WOMEN'S TOILET	THICKSET TILE	TILE/PAINTED GYPBOARD	TILE	PAINTED GYPBOARD	11'-6"	WALL TILE TO 8'-0" A.F.F., ALL WALLS
MEN'S TOILET	THICKSET TILE	TILE/PAINTED GYPBOARD	TILE	PAINTED GYPBOARD	11'-6"	WALL TILE TO 8'-0" A.F.F., ALL WALLS
LUNCH COUNTER	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	EXPOSED STRUCTURE	VARIES	SEE INTERIOR ELEVATIONS FOR CABINETRY
ENCLOSED DOCK	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	EXPOSED STRUCTURE	VARIES	
WAREHOUSE	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	EXPOSED STRUCTURE	VARIES	

WALL PAINT SCHEDULE

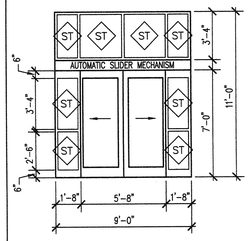


NOTE: WALL PAINT SHALL INCLUDE EGGSHELL BLACK, BASE WALL COLOR PLUS THREE ACCENT COLORS. ACCENT COLORS SHALL BE ON WALL LOCATIONS AS SELECTED BY ARCHITECT. ACCENT COLORS SHALL BE FROM FLOOR TO 12' A.F.F. AND FROM CORNER TO CORNER OF SELECTED WALLS UNLESS OTHERWISE DIRECTED BY ARCHITECT.

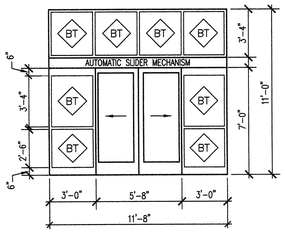
GLASS TYPES

- A — 1" THICK "LOW E" INSULATING GLASS: 1/4" TINTED FLOAT GLASS EXTERIOR AND 1/4" CLEAR FLOAT GLASS INTERIOR WITH 1/2" AIR SPACE.
- ACT — 1" THICK "LOW E" INSULATING GLASS: 1/4" CLEAR FLOAT TEMPERED GLASS EXTERIOR AND 1/4" CLEAR FLOAT TEMPERED GLASS INTERIOR WITH 1/2" AIR SPACE.
- BT — 1/4" CLEAR FLOAT TEMPERED GLASS
- P — 1/8" POLYCARBONATE AT IMPACT DOORS AND OVERHEAD DOORS (PROVIDED AND INSTALLED BY DOOR MANUFACTURER).
- S — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 TINTED FLOAT GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.
- ST — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 TINTED FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.
- SCT — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 CLEAR FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

FRAME TYPES



TYPE F-1



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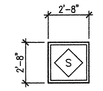

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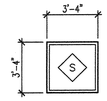

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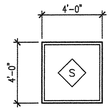
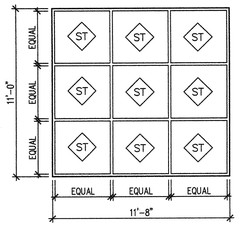
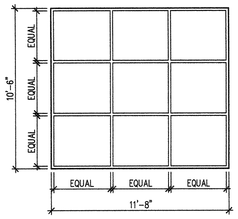


TYPE F-5

NOTE: CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS



TYPE F-6A



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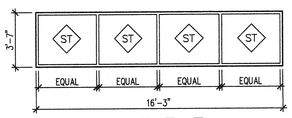
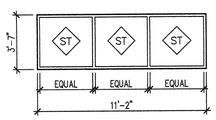


TYPE F-7



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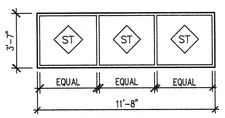
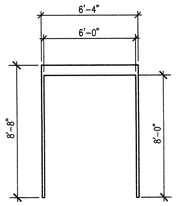


TYPE F-9



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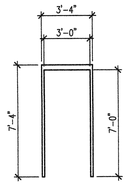
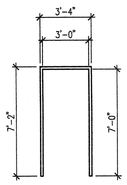
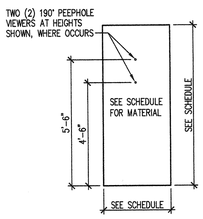


TYPE F-11

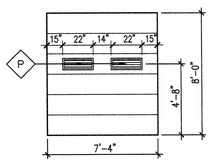


TYPE F-12

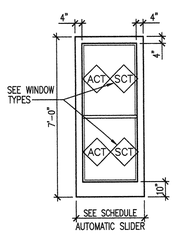
DOOR TYPES



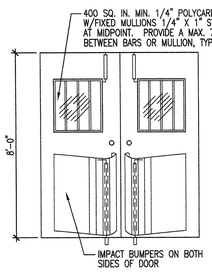
TYPE D-1



TYPE D-2
OVERHEAD SECTIONAL DOOR



TYPE D-3



TYPE D-4
DOUBLE IMPACT DOOR

WINDOW SCHEDULE

NO.	SIZE		FRAME			GLASS	WDW	DETAIL REFERENCE				NO.	REMARKS
⚠	WIDTH	HEIGHT	MATERIAL	TYPE	FINISH	TYPE	BLINDS	HEAD	LEFT JAMB	RIGHT JAMB	SILL	⚠	CONTRACTOR TO VERIFY ALL WINDOW DIMENSIONS WITH THE MANUFACTURER
1	9'-0"	11'-0"	ALUM	F-1	FF	ST	---	8/A502	12/A501	12/A501	24/A501	1	ENTRY DOOR INTEGRAL TO WDW FRAME
2	12'-0"	11'-0"	ALUM	F-2	FF	SCT	---	8/A502	12/A501	12/A501	23/A501	2	ENTRY DOOR INTEGRAL TO WDW FRAME
3	9'-0"	11'-0"	ALUM	F-1	FF	ST	---	8/A502	12/A501	12/A501	24/A501	3	ENTRY DOOR INTEGRAL TO WDW FRAME
4	11'-8"	11'-0"	ALUM	F-6A	FF	SCT	---	10/A502	5/A502	5/A502	7/A502	4	
5	2'-8"	2'-8"	ALUM	F-3	FF	SCT	---	4/A502	5/A502	5/A502	6/A502	5	
6	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	6	
7	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	7	
8	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	8	
9	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	9	
10	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	10	
11	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	11	
12	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	12	
13	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	13	
14	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	14	
15	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	15	
16	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	16	
17	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	17	
18	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	18	
19	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	19	
20	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	20	
21	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	21	
22	2'-8"	2'-8"	ALUM	F-3	FF	S	---	4/A502	5/A502	5/A502	6/A502	22	
23	11'-8"	10'-6"	ALUM	F-6B	FF	S	---	10/A502	10/A502sim	10/A502sim	9/A502	23	
24	11'-2"	3'-7"	ALUM	F-8	FF	S	---	1/A502	2/A502	2/A502	3/A502	24	
25	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	25	
26	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	26	
27	11'-8"	3'-7"	ALUM	F-9	FF	S	---	1/A502	2/A502	2/A502	3/A502	27	
28	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	28	
29	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	29	
30	11'-2"	3'-7"	ALUM	F-8	FF	S	---	1/A502	2/A502	2/A502	3/A502	30	
31	11'-8"	10'-6"	ALUM	F-6B	FF	SCT	---	1/A502	2/A502	2/A502	3/A502	31	
32												32	
33												33	
34												34	
35												35	

DOOR SCHEDULE

NO.	SIZE			DOOR			FRAME			DETAIL REFERENCE			HDW.	REMARKS
	WIDTH	HEIGHT	THICK.	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.		
01	PR. 3'-0"	7'-0"	---	D-3	ALUMINUM	FF	F-1	ALUMINUM	FF	25/A501	---	1/A501	1	SEE NOTE 1.
02	PR. 3'-0"	7'-0"	---	D-3	ALUMINUM	FF	F-2	ALUMINUM	FF	25/A501	---	2/A501	1	SEE NOTE 1.
03	PR. 3'-0"	7'-0"	---	D-3	ALUMINUM	FF	F-1	ALUMINUM	FF	25/A501	---	1/A501	1	SEE NOTE 1.
04	3'-0"	7'-0"	---	D-1	HOLLOW METAL	FF	F-11	HOL. MTL.	PAINTED	17/A501	17/A501 SIM	1/A501	7	SEE NOTE 3.
05	7'-4"	8'-0"	---	D-2	SEE SPECS	FF	---	STEEL	PAINTED	19/A501sim.	19/A501	---	6	SEE NOTE 2.
06	3'-0"	7'-0"	---	D-1	HOLLOW METAL	FF	F-11	HOL. MTL.	PAINTED	17/A501	17/A501 SIM	1/A501	7	SEE NOTE 3.
07	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	5/A501	5	
08	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	5/A501	5	
09	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	---	4	
10	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	---	4	
11	PR. 3'-0"	8'-0"	---	D-4	IMPACT	FF	F-10	HOL. MTL.	PAINTED	18/A501sim.	7 & 18/A501	---	8	LIGHTWEIGHT IMPACT DOORS
12	PR. 3'-0"	8'-0"	---	D-4	IMPACT	FF	F-10	HOL. MTL.	PAINTED	18/A501sim.	18/A501	---	8	LIGHTWEIGHT IMPACT DOORS
13	PR. 3'-0"	8'-0"	---	D-4	IMPACT	FF	F-10	HOL. MTL.	PAINTED	7/A501sim.	7/A501	---	8	LIGHTWEIGHT IMPACT DOORS

NOTE 1 - AUTOMATIC SLIDERS W/SENSOR ACTIVATION AND FULL BREAKOUT. PROVIDE 10" BOTTOM RAIL AND CONTINUOUS THRESHOLD.
NOTE 2 - INSULATED OVERHEAD SECTIONAL DOOR W/OPERATOR. PROVIDE AUTO REVERSING MECHANISM AND OPERATIONAL INTERFACE WITH DOCK LEVELER CONTROLS.
NOTE 3 - PROVIDE TWO (2) PEEPHOLE VIEWERS IN EACH DOOR, SEE DOOR TYPE D-1 FOR INSTALLATION HEIGHTS.

NEW CEDAR CITY LIQUOR STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

DOOR, WINDOW AND FINISH SCHEDULES

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

STATE OF UTAH
FRANK N. MURDOCK
124488
LICENSED ARCHITECT
3/31/09

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST. DOC.
FILE NAME: ABCCC-A601
PLOT SCALE: 1:48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2009

A
601

STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

ROOF:
- DEAD LOAD: DL = 20 PSF
- GROUND SNOW LOAD: Pg = 50 PSF
- FLAT ROOF SNOW LOAD: Pf = 35 PSF
- SNOW EXPOSURE FACTOR: Ce = 1.0
- SNOW IMPORTANCE FACTOR: I = 1.0
- THERMAL FACTOR: Ct = 1.0

WIND LOAD:
- BASIC WIND SPEED: V = 90 MPH (3 SEC GUST)
- IMPORTANCE FACTOR: I = 1.0
- WIND EXPOSURE: "C"
- COMPONENT AND CLADDING PRESSURE: P = 20 PSF

SEISMIC:
- OCCUPANCY CATEGORY: II
- SPECTRAL RESPONSE COEF: SDS = 0.58, SD1 = 0.29
- SITE CLASS: D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM:
  - SPECIAL REINFORCED MASONRY SHEAR WALLS
  - R=5, OMEGA=2.5, Cd=3.5, Cs=0.116

SOILS:
- NET ALLOWABLE SOIL PRESSURE = 2000 PSF

GENERAL

1. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
3. 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.
4. 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.
5. 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.
6. 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.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
8. 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 THE STRUCTURAL ELEMENTS ARE COMPLETE.
9. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
10. 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 STEEL JOISTS.
11. ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
12. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
13. OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
14. 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

1. 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.
2. THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
3. SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
4. OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS 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.
5. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1704.3 AND TABLE 1704.3.
6. WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.3.
7. 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.
8. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.4.
9. 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
10. SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1704.7.
11. EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS ICBO REPORT TO STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

1. 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:
   - A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   - B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   - C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
   - D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

STRUCTURAL DEFERRED SUBMITTALS

1. 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.

   ITEMS:
   1. OPEN WEB METAL JOISTS AND GIRDERS
   2. CONCRETE MIX DESIGN

FOOTINGS

1. ALL FOOTINGS SHALL BEAR ON 18" MINIMUM OF COMPACTED STRUCTURAL FILL AS PER THE GEOTECHNICAL REPORT BY GORDAN SPILKER HUBER GEOTECHNICAL CONSULTANTS, INC.
2. FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
3. EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-6" BELOW FINISHED EXTERIOR GRADE.
4. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
5. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE GEOTECHNICAL REPORT BY GORDON SPIKER HUBER GEOTECHNICAL CONSULTANTS, INC. JOB NUMBER 0128-034-08, DATED FEB 10, 2009 SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.
6. 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.
7. ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-05 AND ACI STANDARD 318-05.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
4. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.
5. 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.
6. ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICE SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
7. 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.
8. COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
   - A. UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS). 3"
   - B. SLABS ON GRADE.............................. 2"
   - C. FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC), BEAMS AND COLUMNS........................... 2"
   - D. STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH........................... 1"
   - E. INTERIOR WALL SURFACES...................... 1"
   - F. INTERIOR BEAMS AND COLUMNS.................. 1-1/2"
   - G. IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
9. PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

CONCRETE

1. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS: **DUE TO SOIL CONDITIONS, TYPE V CEMENT MUST BE USED AND THE WATER TO CEMENT RATIO SHALL BE LIMITED TO 0.45.**
   - 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
2. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
3. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:

WIDTH	HORIZ REINF	VERT REINF
8" WALL	#5 @ 12"	#5 @ 16" CENTER OF WALL

CONCRETE, CONT

5. DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE 36 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.
6. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
7. ADD (2) #5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.
8. 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.
9. 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-W1.4xW1.4 WELDED WIRE FABRIC.
10. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THRU JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEYED.
11. WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT WITH SEALANT.

MASONRY (CMU)

1. 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 ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2"x3" MINIMUM.
2. 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 VOIDS. 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.
3. AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.
4. ALL STEEL JOIST, JOIST GIRDER, AND STEEL BEAM POCKETS IN MASONRY SHALL BE GROUTED SOLID UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
5. 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.
6. ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING. LAP ALL SPLICES IN MASONRY PER REBAR SHEDULE. PLACE ALL BARS SECURELY PRIOR TO GROUTING.
7. 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
8. ALL HORIZONTAL REINFORCING SHALL TERMINATE WITH A HOOK AROUND VERTICAL REINFORCING.
9. 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.
10. 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.
11. 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.
12. STOP GROUT POURS 1/2" BELOW TOP OF BLOCK UNITS.
13. ALL ANCHOR BOLTS MUST BE PLACED IN GROUTED CELLS.
14. 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.
15. 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.
16. 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

1. 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 2006 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
4. STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 35 KSI.
5. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
6. 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

7. 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.
8. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT 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.
9. ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE". UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING 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 HE 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.
10. 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.
11. WHERE JOISTS CAN NOT BEAR 2-1/2" ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" MINIMUM BEARING ON BEAM.
12. CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE (L1-1/2x1-1/2x1/8) 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.
13. A CERTIFICATE OF COMPLIANCE FOR THE STEEL ROOF JOISTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL UPON COMPLETION OF FABRICATIONS, PER IBC 2206.5.
14. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 10 PSF, UNLESS NOTED OTHERWISE.
15. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS:
    - LIVE OR SNOW LOAD SPAN/360
    - TOTAL LOAD SPAN/240
16. PROVIDE CAMBER IN OPEN WEB JOIST AND GIRDER PER STEEL JOIST INSTITUTE RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
17. JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD WITH UNBRACED LENGTH EQUAL TO SKYLIGHT OPENING.
18. WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FOOT, PROVIDE SLOPED BEARING SEAT.
19. 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.
20. JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL 500 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
21. GIRDERS SHALL BE DESIGNED FOR AN ADDITIONAL 1000 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
22. JOIST MANUFACTURER TO DESIGN FOR THE MECHANICAL UNITS SHOWN WITH WEIGHTS GREATER THAN 500 LBS.
23. SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY IBC 2006 SHALL BE PROVIDED BY THE OWNER.
24. 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.
25. 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 OR OTHER 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.
26. STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI. SUBMIT ICBO REPORT WITH SHOP DRAWINGS.
27. 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.
28. DECK SHALL HAVE A MINIMUM BEARING LENGTH OF 2".

LIGHT GAGE METAL FRAMING

1. 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 THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AND ICBO REPORT ER-4943P.
2. 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 ICBO APPROVED.
3. ALL COMPONENTS SHALL BE GALVANIZED ACCORDING TO REQUIREMENTS OF ASTM A-525 FOR MINIMUM G-60 COATING.
4. 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-446, 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.
5. 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.
6. ADEQUATE LATERAL BRACING MUST BE PROVIDED DURING CONSTRUCTION.
7. 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.
8. 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 NAIL OR POWER-DRIVEN FASTENERS, OR 16" OC FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACK.
9. 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 PLYWOOD DIAPHRAGMS AND SILL PLATES SHALL BE AS INDICATED IN STRUCTURAL NOTES, AND DETAILED.

DRILL & EPOXY

1. USE HILTI HIT RE 500 ADHESIVE SYSTEM OR EQUIVALENT FOR CONNECTIONS INTO EXISTING CONCRETE & HILTI HIT HY 150 OR EQUIVALANT FOR CONNECTIONS WITH SOLID GROUTED MASONRY.
2. USE HILTI HY20 ADHESIVE SYSTEM OR EQUIVALENT FOR ALL HOLLOW UNIT CMU CONNECTIONS AND UNREINFORCED MASONRY WALLS, INCLUDING MULTI-WYTHE WALLS.
3. 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)

ABBRV	TERM	ABBRV	TERM
(#)	NUMERICAL QUANTITIES	(E)	EXISTING
	WHEN ENCLOSED IN	E	MODULUS OF ELASTICITY
	PARENTHESES	EA	EACH
		EJ	EXPANSION JOINT
A/E	ARCHITECT/ENGINEER	EL	ELEVATION
AB	ANCHOR BOLT	ELEV	ELEVATOR
ADDM	ADDENDUM	ENGR	ENGINEER
ALUM	ALUMINUM	EQ	EQUAL
APPROX	APPROXIMATELY	EQL SP	EQUALLY SPACED
ARCH	ARCHITECT		(EQUAL SPACES)*
	(ARCHITECTURAL)*	EQUIP	EQUIPMENT
ASTM	AMERICAN SOCIETY FOR	EQUIV	EQUIVALENT
	TESTING AND MATERIALS	EST	ESTIMATE
		ETC	AND SO FORTH
B PL	BASE PLATE	EW	EACH WAY
B/B	BACK TO BACK	EXCL	EXCLUDE
BLW	BELOW	EXP	EXPANSION
BLKG	BLOCKING	EXT	EXTERIOR
BM	BEAM		
BOS	BOTTOM OF STEEL	(F)	FUTURE
BOT	BOTTOM	FDTN	FOUNDATION
BRG	BEARING	FFE	FINSHED FLOOR
BTWN	BETWEEN		ELEVATION
		FIN	FINISH (FINISHED)*
C TO C	CENTER TO CENTER	FLR	FLOOR
CD	CONTRACT DOCUMENTS	FRMG	FRAMING
CIP	CAST-IN-PLACE	FSE	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
CONN	CONNECTION		BEAM
CONT	CONTINUOUS (CONTINUE)*		
CONTR	CONTRACTOR	HGR	HANGER
COORD	COORDINATE	HORIZ	HORIZONTAL
CTR	CENTER		(HORIZONTALLY)*
		HSA	HEADED STUD ANCHOR
D	DEPTH	HSS	HOLLOW STRUCTURAL
d	PENNY NAIL		SECTION
DB	DECK BEARING		
DBA	DEFORMED BAR ANCHOR	I	MOMENT OF INERTIA
DBL	DOUBLE	ID	INSIDE DIAMETER
DFS	DOUGLAS FIR - SOUTH	INT	INTERIOR
DIA	DIAMETER		
DIAG	DIAGONAL	JST	JOIST
DIM	DIMENSION		
DL	DEAD LOAD	KIP, (K)	THOUSAND POUNDS
DTL	DETAIL	KIP FT	THOUSAND FOOT/POUNDS
DWG	DRAWING	KLF	KIPS PER LINEAL FOOT

TERMS AND ABBREVIATIONS (L - Z)

ABBRV	TERM	ABBRV	TERM
LB	POUND	SCHED	SCHEDULE
LHS	LEFT HAND SIDE	SECT	SECTION
LL	LIVE LOAD	SF	SQUARE FOOT (FEET)*
LLH	LONG LEG HORIZONTAL	SGL	SINGLE
LLV	LONG LEG VERTICAL	SHTHG	SHEATHING
LONG	LONGITUDINAL	SIM	SIMILAR
LSL	LAMINATED STRAND	SL	SNOW LOAD
	LUMBER	SOG	SLAB ON GRADE
LTWT	LIGHTWEIGHT	SPCL	SPECIAL
LVL	LAMINATED VENEER	SPEC	SPECIFICATION
	LUMBER	SQ	SQUARE
		STD	STANDARD
MAX	MAXIMUM	STIF	STIFFENER
MECH	MECHANICAL	STRUCT	STRUCTURE
MFR	MANUFACTURER		(STRUCTURAL)*
MIN	MINIMUM	SYMM	SYMMETRICAL
MISC	MISCELLANEOUS		
		T&B	TOP AND BOTTOM
NA	NOT APPLICABLE	T&G	TONGUE AND GROOVE
NTS	NOT TO SCALE	THRU	THROUGH
		TO FDN	TOP OF FOUNDATION
OC	ON CENTER	TOB	TOP OF BEAM
OD	OUTSIDE DIAMETER	TOC	TOP OF CONCRETE
OPNG	OPENING	TOF	TOP OF FOOTING
OPP	OPPOSITE	TOJ	TOP OF JOIST
OPT	OPTIONAL	TOM	TOP OF MASONRY
OSB	ORIENTED STRAND BOARD	TOP	TOP OF PARAPET
		TOS	TOP OF STEEL
PERP	PERPENDICULAR	TOW	TOP OF WALL
PLF	POUNDS PER LINEAL	TWS	THREADED WELDED STUD
	FOOT	TYP	TYPICAL
PSL	PARALLEL STRAND		
	LUMBER	UNO	UNLESS NOTED
PT	POST TENSIONED		OTHERWISE
QA	QUALITY ASSURANCE	VERT	VERTICAL (VERTICALLY)*
QC	QUALITY CONTROL		
		W/	WITH
(RE)	REMOVE EXISTING	W/O	WITHOUT
REINF	REINFORCE (REINFORCED,	WL	WIND LOAD
	REINFORCING)*	WLD	WELD (WELDED)*
REQD	REQUIRED	WWF	WELDED WIRE FABRIC
RFI	REQUEST FOR		
	INFORMATION	XS	EXTRA STRONG
RS	ROUGH SAWN	XXS	DOUBLE EXTRA STRONG
RTU	ROOF TOP UNIT		

NOTES:
1. * CONTEXT INDICATES WHICH ABBREVIATION TERM IS IMPLIED. CONTACT ENGINEER IF MEANING IS NOT OBVIOUS.
2. NOT ALL ABBREVIATIONS ARE USED.
3. MANY ABBREVIATIONS MAY BE MADE PLURAL BY ADDING AN S SUFFIX.
4. FOR ABBREVIATIONS NOT LISTED, REFER TO THE US NATIONAL CAD STANDARD, VERSION 3.1. TERMS AND ABBREVIATIONS SECTION, OR CONTACT ENGINEER.

A6 TERMS AND ABBREVIATIONS
1717_01 Abbreviations SCALE: NONE

CALDER RICHARDS CONSULTING ENGINEERS
634 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.466.1699 F: 801.467.2495

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NEW CEDAR CITY LIQUOR STORE
DEPT. OF ALCHOLIC BEVERAGE CONTROL
CEDAR CITY, UT

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

STRUCTURAL NOTES

PROFESSIONAL STRUCTURAL ENGINEER
SHAUN A. PACKER
191304
STATE OF UTAH
4-7-09

REVISION # DATE:
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S001

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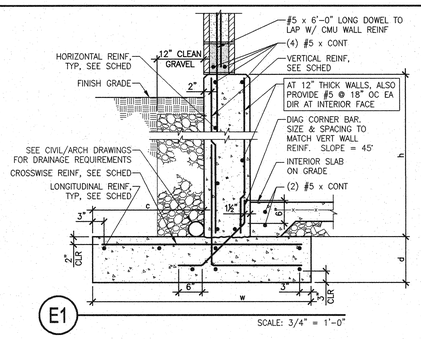
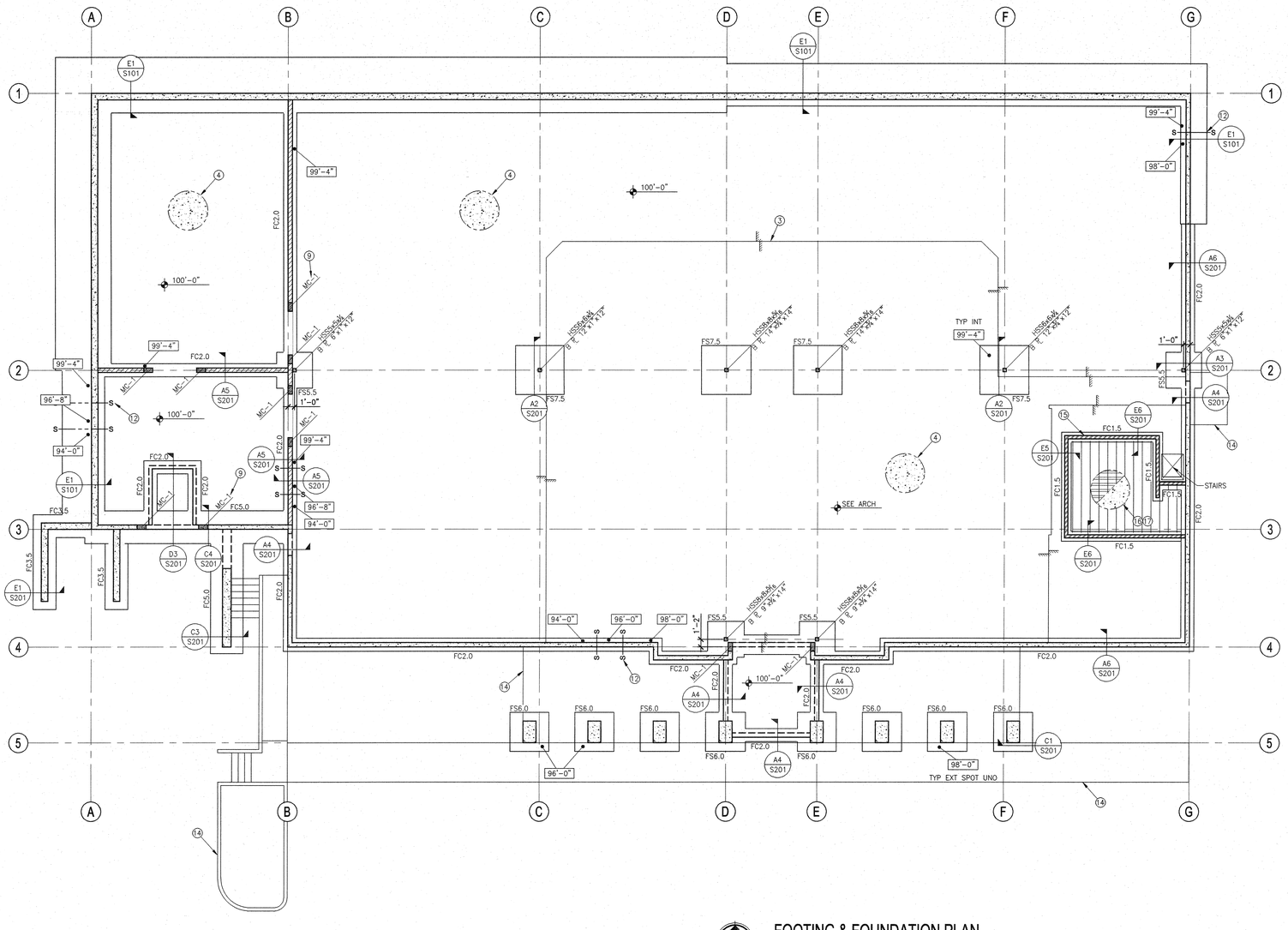


RETAINING WALL SCHEDULE								
MAX RETAINING HEIGHT h	WALL			FOOTING				
	t	VERT	HORIZ	d	w	c	CROSSWISE	LONGIT
6'-0"	8"	#5 @ 14"	#5 @ 12"	1'-0"	4'-0"	2'-6"	#5 @ 14"	(5) #5
9'-0"	12"	#6 @ 12"	#5 @ 18"	1'-4"	6'-6"	4'-6"	#6 @ 16"	(6) #6
12'-0"	12"	#8 @ 9"	#5 @ 18"	1'-6"	8'-6"	5'-6"	#8 @ 16"	(8) #6

TYPE "B" LEVEL BACKFILL



FOOTING & FOUNDATION PLAN

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

PLAN NOTES (FTG & FDTN):

(1) CIRCLED NOTES ARE KEYED ON PLAN.

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. TOP OF SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: xxx'-xx" SLOPE UNIFORMLY TO FLOOR DRAINS.
3. SEE DETAIL **A1/S201** FOR TYPICAL STEP IN SLAB. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF STEPS.
4. SLAB ON GRADE SHALL BE 5" CONCRETE OVER 4" FREE-DRAINING GRAVEL. REINFORCE SLAB WITH 6x6-W1.4xW1.4 WWF (USE FLAT SHEETS).
5. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER STRUCTURAL NOTES. SEE DETAIL **B2/S201**.
6. SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE **THIS SHEET** FOR FOOTING SIZE AND REINFORCEMENT.
7. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
8. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
9. SEE DETAIL **D5/S201** FOR MASONRY COLUMN SCHEDULE INDICATING SIZE AND REINFORCEMENT.
10. SEE DETAIL **B1/S201** FOR CONTROL/EXPANSION JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
11. SEE DETAILS **B3/S201** & **C2/S201** FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
12. SEE DETAIL **B4/S201** FOR TYPICAL STEP IN FOOTING.
13. FOUNDATION DESIGN INFORMATION WAS OBTAINED FROM THE SOILS REPORT PREPARED BY GSH GEOTECHNICAL CONSULTANTS, INC. ALL SITE PREPARATION, EXCAVATION, FILL, COMPACTION, AND PLACEMENT WORK PREFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT.
14. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
15. SEE DETAILS **D2, E3, E4, E5, & E6** ON **SHEET S201** FOR SMALL OVERBUILD OFFICE MEZZ FRAMING.
16. FLOOR SLAB SHALL BE A TOTAL OF 4" THICK (WITH STEEL DECK), LIGHT WEIGHT CONCRETE (110 PCF). REINFORCE SLAB WITH 6x6 – W1.4xW1.4 WWF IN ADDITION TO ANY MILD REINFORCEMENT SHOWN ON PLANS.
17. FLOOR DECK SHALL BE 1½" 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. BUTTON PUNCH ALL DECK LAPS @ 36" OC.
18. SEE DETAILS **B5/S201** & **C5/S201** FOR REINFORCEMENT LAP SPLICE SCHEDULES.

LEGEND:

FCx.0, FSx.0, FRx.0/y.0	CONTINUOUS FOOTING, SPOT FOOTING TYPES RESPECTIVELY, SEE SCHEDULE	FCx.x	CONCRETE FOOTING & FDTN WALL
xx'-xx"	TOP OF FTG ELEVATION		CONC WALL
	CONC SLAB ON GRADE		RECESS IN CONC FDTN WALL
	BEAM	MC-x	MASONRY COLUMN IN WALL ABOVE
	JOIST		STEEL COLS – TUBE
			STEEL STUD WALL

FOOTING SCHEDULE				
MARK	SIZE	REINFORCEMENT		NOTES
	WIDTH x THICK x LENGTH	LONGITUDINAL	TRANSVERSE	
FC1.5	1'-6" x 1'-0" x CONT	(3) #4	–	
FC2.0	2'-0" x 1'-0" x CONT	(3) #4		
FC3.5	3'-6" x 1'-0" x CONT	(4) #5	#5 @ 18"	
FC5.0	5'-0" x 1'-2" x CONT	(5) #5	#5 @ 16"	
FS5.5	5'-6" x 1'-0" x 5'-6"	(5) #5	(5) #5	
FS6.0	6'-0" x 1'-2" x 6'-0"	(6) #5	(6) #5	
FS7.5	7'-6" x 1'-4" x 7'-6"	(7) #6	(7) #6	

FOOTING NOTES:

1. PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
2. ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS2.0, MINIMUM, UNO ON PLANS.

B6 — FOOTING SCHEDULE

3110.00 R-SCHFTGS FOOTING SCHEDULE — SCALE: NONE

CALDER RICHARDS CONSULTING ENGINEERS
424 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.466.1699 F: 801.467.3495

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NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCHOLIC BEVERAGE CONTROL
CEDAR CITY, UT

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

FOOTING & FOUNDATION PLAN

PROFESSIONAL STRUCTURAL ENGINEER — SHAUN A. PACKER — # 191304 — STATE OF UTAH

REVISION #	DATE:
	PERMIT RESPONSE 04-07-09

DFCM PROJECT NO.: 08227030
CONSTRUCTION DOCS
FILE NAME: S101.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 31, 2009

S101

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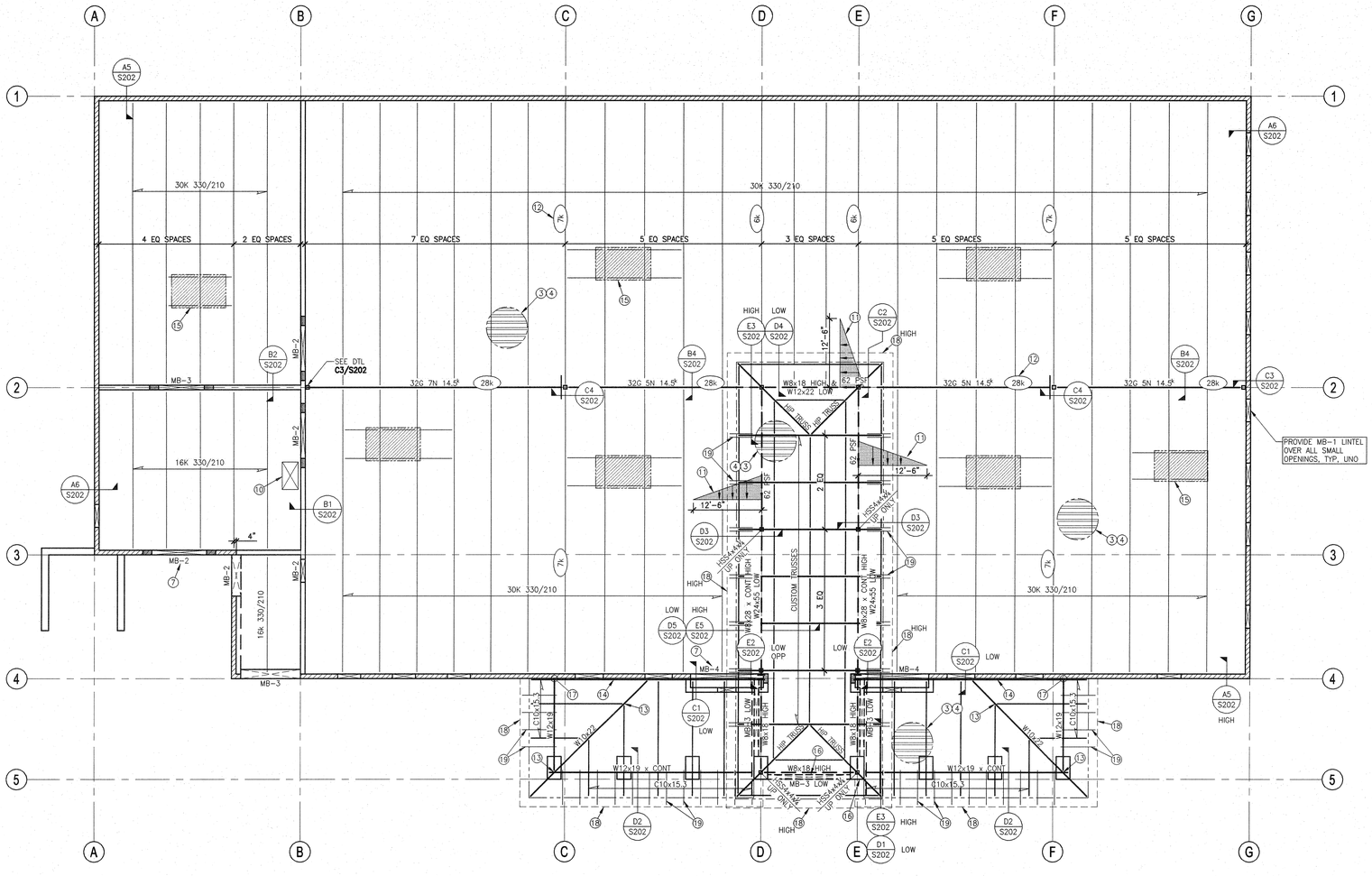
PLAN NOTES (ROOF FRAMING):

- ○ CIRCLED NOTES ARE KEYED ON PLAN.

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.

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 1½" 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) ¾"ø PUDDLE WELDS
   B. DECK SPAN PARALLEL TO SUPPORTS:
      ¾"ø PUDDLE WELDS @ 12" OC
   C. SEAMS:
      1½" TOP SEAM WELDS OR VERCO PUNCH LOCK @ 24" OC
5. ALL CONTINUOUS DECK ANGLES TO BE FULL DEVELOPMENT BUTT WELDED AT SPLICES.
6. SEE **A2/S202** FOR TYPICAL ROOF OPENING DETAIL.
7. SEE DETAIL **B5/S202** FOR MASONRY BEAM SCHEDULE INDICATING SIZE & REINFORCEMENT.
8. SEE DETAIL **B1/S201** FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
9. SEE DTL **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 K)
13. SEE DETAIL **D6/S202** FOR TYPICAL BEAM TO BEAM OR CHANNEL TO BEAM CONNECTION.
14. EPOXY ANCHOR EDGE CHANNEL TO SOLID GROUTED CMU WALL PER DTL **C1/S202**.
15. JOIST MFR TO DESIGN JOISTS AND GIRDERS 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.
16. SEE ARCH DWGS FOR TOP OF CMU AT ENTRY.
17. POCKET END OF BEAM IN WALL PER DETAIL **D1/S202, SIM.**
18. APPROX EDGE OF GUTTER SYSTEM, SEE ARCH DWGS.
19. L2x GUTTER SUPPORTS, SEE DETAIL **D2/S202** FOR LOW CANOPY ROOF AND DETAIL **E5/S202** FOR HIGH ROOF.



ROOF FRAMING PLAN

SCALE: 1/8" = 1'–0"

LEGEND:

- STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
- BEAM
- JOIST
- SNOW DRIFT DIAGRAM (# PSF, xx'–xx")
- MASONRY WALL (SHADED IF GROUTED SOLID)
- MB–# MASONRY BEAM
- STEEL COLS – TUBE
- STEEL STUD WALL

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ROOF FRAMING PLAN

PROFESSIONAL STRUCTURAL ENGINEER
SHAUN A. PADDOCK
191304
STATE OF UTAH

REVISION #	DATE:
	PERMIT RESPONSE 04–07–09

DFCM PROJECT NO.: 08227030
CONSTRUCTION DOCS
FILE NAME: S102.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 31, 2009

S102

CALDER RICHARDS
CONSULTING ENGINEERS
534 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.466.1699 F: 801.467.2495

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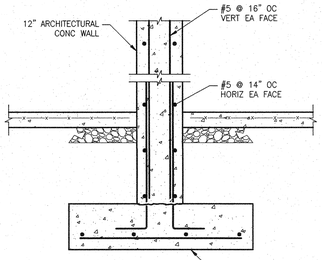
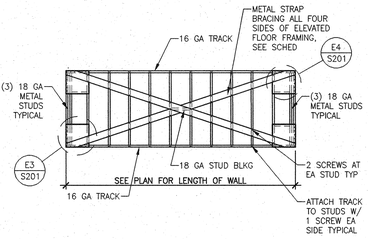
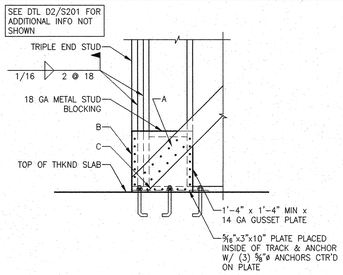
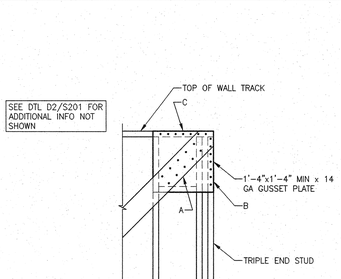


E1 SCALE: 3/4" = 1'-0"

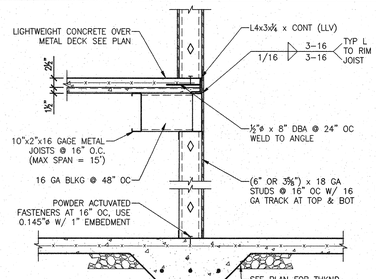




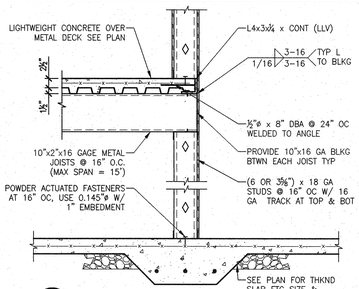
E3 SCALE: 3/4" = 1'-0"



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



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



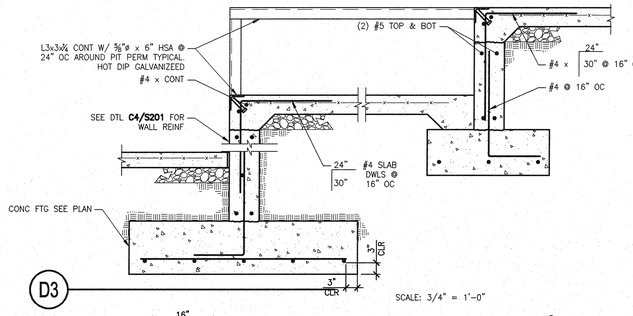
E6 SCALE: 3/4" = 1'-0"

STRAP BRACE SCHEDULE

STRAP	FASTENERS (SEE DETAILS)		
	NO 12-3/8" MIN SELF DRILLING SCREWS		
	(A) STRAP TO GUSSET ℄	(B) GUSSET TO EA END STUD	(C) GUSSET TO CONT TRACK
4"x16 GA	10	8	8

NOTE:
1/8" FILLET WELDS MAY BE SUBSTITUTED FOR SCREWS. PROVIDE 1"x1/16" FILLET WELD FOR EACH SCREW.

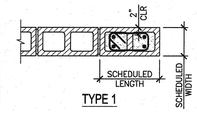
D2 SCALE: 3/4" = 1'-0"



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

MASONRY COLUMN SCHEDULE

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

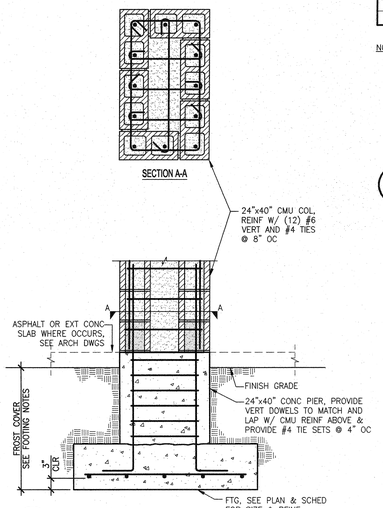


TYPE 1

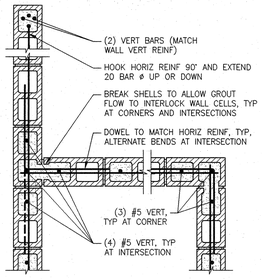
MASONRY COLUMN NOTES:

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

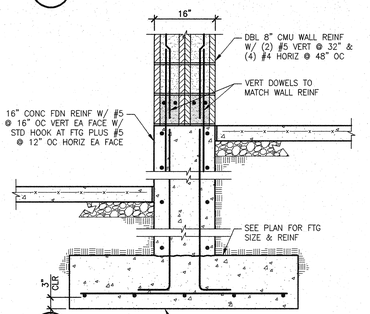
D5 MASONRY COLUMN SCHEDULE
5310.00 SCALE: NONE



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

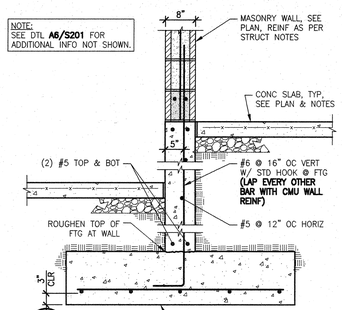


C2 5252_03 SCALE: 3/4" = 1'-0"



C3 3152_01 SCALE: 3/4" = 1'-0"

NOTE:
SEE DTL **A6/S201** FOR ADDITIONAL INFO NOT SHOWN.



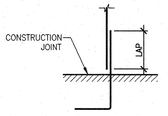
C4 3152_01 SCALE: 3/4" = 1'-0"

MASONRY REINFORCING LAP SPLICE SCHEDULE

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
MASONRY SINGLE MAT	1'-7"	2'-1"	2'-7"	4'-4"	5'-1"	6'-2"	7'-10"	MECH	MECH
MASONRY DOUBLE MAT	1'-7"	2'-4"	3'-6"	6'-10"	9'-1"	12'-5"	15'-4"	MECH	MECH

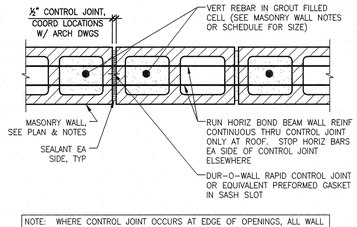
MASONRY REBAR SPLICE NOTES:

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



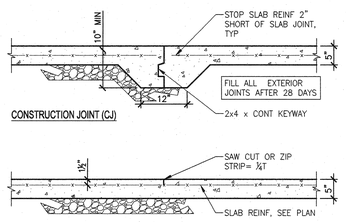
REBAR DEVELOPMENT DETAIL

C5 SCALE: NONE

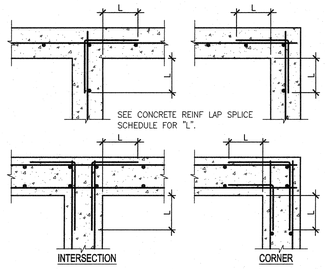


NOTE: WHERE CONTROL JOINT OCCURS AT EDGE OF OPENINGS, ALL WALL BEAM REINF AND GROUT MUST BE CONTINUOUS THROUGH JOINT. USE OPEN END UNITS OR BREAK OUT TOP HALF OF SHELL FOR GROUT FLOW AT JOINT OF BEAM. DELETE PREFORMED GASKET FOR HEIGHT OF BEAM.

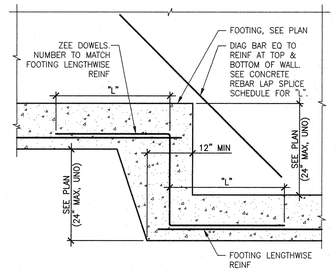
B1 TYP MASONRY CONTROL JOINT
5257_01 SCALE: NONE



B2 TYPICAL SLAB JOINT DETAILS
3600.02 SCALE: NONE



B3 WALL INTERSECTION DOWELS
3200.02 SCALE: NONE



B4 FOOTING STEP (CONC FDTN)
3231.02 SCALE: NONE

CONCRETE REINFORCING LAP SPLICE SCHEDULE

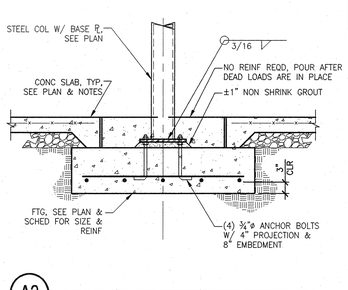
BAR SIZE	TENSION BARS "Ld"															
	f'c=3000psi				f'c=4000psi				f'c=5000psi				f'c=6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	16"	21"
#4	22"	29"	29"	38"	18"	25"	26"	33"	17"	22"	23"	30"	16"	20"	21"	27"
#5	28"	36"	37"	48"	24"	31"	32"	42"	21"	28"	24"	37"	20"	25"	26"	34"
#6	33"	43"	45"	58"	29"	37"	39"	50"	26"	33"	35"	45"	24"	30"	32"	41"
#7	48"	63"	63"	82"	42"	55"	55"	71"	37"	48"	48"	62"	34"	45"	45"	58"
#8	55"	72"	72"	93"	48"	63"	63"	81"	42"	55"	55"	71"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	71"	71"	92"	48"	62"	62"	80"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	103"	54"	70"	70"	90"	50"	65"	65"	84"
#11	78"	101"	101"	131"	68"	88"	88"	114"	60"	77"	77"	100"	55"	72"	72"	93"

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

B5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE

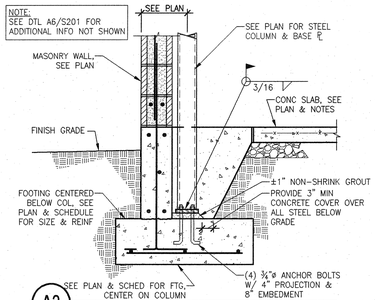
STEP IN SLAB ON GRADE

A1 SLAB STEP DETAIL
3677_05 C-SLBSTP SCALE: 3/4" = 1'-0"

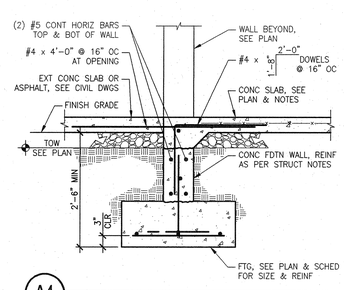


A2 4331.01 SCALE: 3/4" = 1'-0"

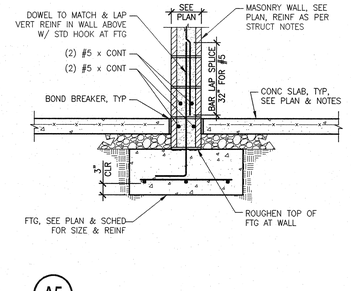
NOTE:
SEE DTL A6/S201 FOR ADDITIONAL INFO NOT SHOWN



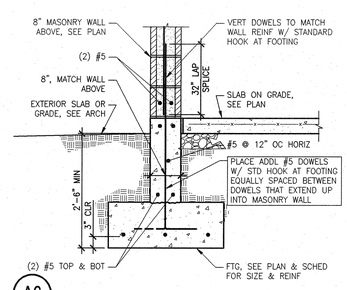
A3 3143_03 SCALE: 3/4" = 1'-0"



A4 3632.02 SCALE: 3/4" = 1'-0"



A5 3152_01 SCALE: 3/4" = 1'-0"



A6 SCALE: 3/4" = 1'-0"

CALDER RICHARDS
CONSULTING ENGINEERS
324 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.466.1699 F: 801.467.2495

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NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCHOLIC BEVERAGE CONTROL
CEDAR CITY, UT

STRUCTURAL DETAILS

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

PROFESSIONAL STRUCTURAL ENGINEER 5744 SHAUN B. PACKER #191304 STATE OF UTAH

REVISION #	DATE:
PERMIT RESPONSE	04-07-09

OFCM PROJECT NO.:
08227030
CONSTRUCTION DOCS
FILE NAME: S201.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 31, 2009

S201

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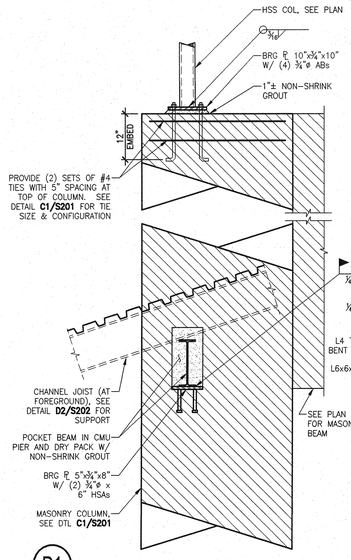
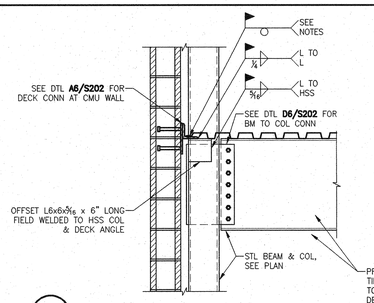


D1 SCALE: 3/4" = 1'-0"



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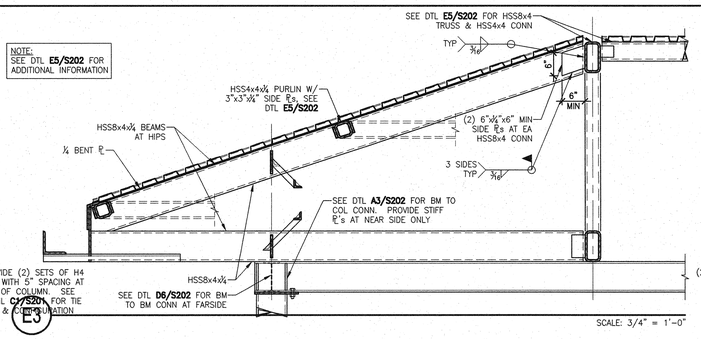

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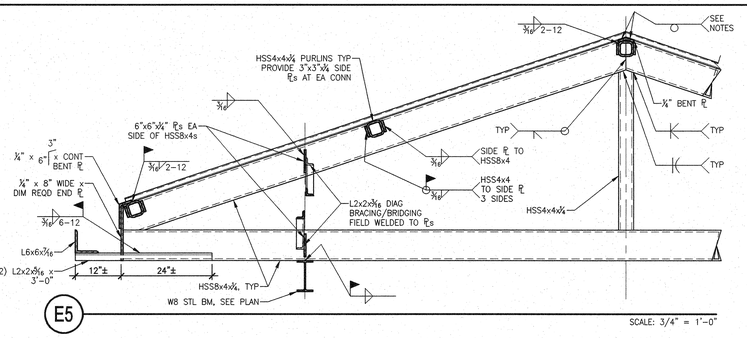
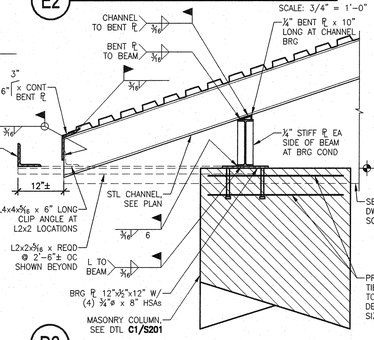
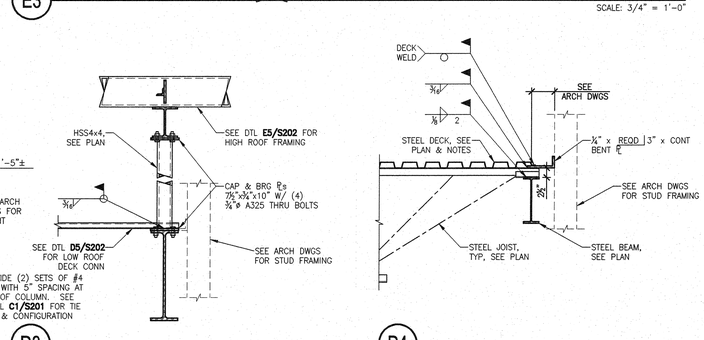


E5 SCALE: 3/4" = 1'-0"

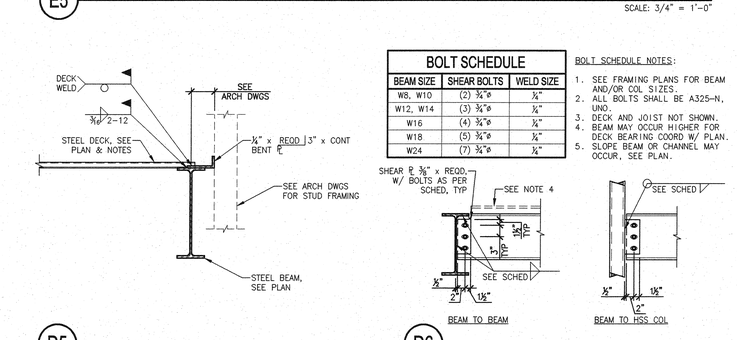
D2 4452_02 MR-OPNG3 SCALE: NONE



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



D4 SCALE: 3/4" = 1'-0"



D5 SCALE: 3/4" = 1'-0"

BOLT SCHEDULE		
BEAM SIZE	SHEAR BOLTS	WELD SIZE
W8, W10	(2) ¾"ø	¼"
W12, W14	(3) ¾"ø	¼"
W16	(4) ¾"ø	¼"
W18	(5) ¾"ø	¼"
W24	(7) ¾"ø	¼"

BOLT SCHEDULE NOTES:

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

BEAM TO BEAM

BEAM TO HSS COL

D6 4744_03 S-BMCON1 SCALE: 3/4" = 1'-0"

C1 SCALE: 3/4" = 1'-0"

C2 4345_04 SCALE: 3/4" = 1'-0"

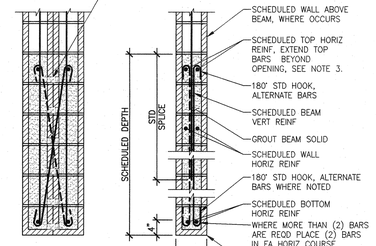
C3 4345_01 SCALE: 3/4" = 1'-0"

C4 4345_02 SCALE: 3/4" = 1'-0"

MASONRY BEAM SCHEDULE						
MARK	WIDTH	DEPTH	REINFORCEMENT			NOTES
			BOTTOM HORIZONTAL	TOP HORIZONTAL	VERTICAL	
MB-1	WALL	16"	(2) #5	—	MATCH WALL VERTS.	TYPICAL, UNO
MB-2	WALL	24"	(2) #5	(2) #5	#4 x ⅄ @ 16"	
MB-3	WALL	32"	(2) #5	(2) #5	#4 x ⅄ @ 16"	
MB-4	WALL	48"	(2) #5	(2) #5	#4 x ⅄ @ 16"	

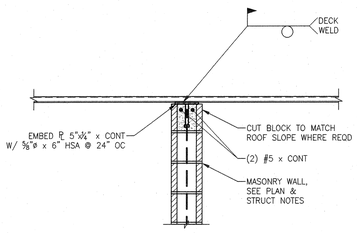
MASONRY BEAM NOTES:

1. 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.
2. GROUT BEAMS SOLID FOR DEPTH SHOWN IN SCHEDULE, PLUS AS PER DETAILS, STRUCURAL NOTES AND/OR WALL SCHEDULE.
3. 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.
4. 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 ONE VERTICAL BAR IN EACH GROUTED CELL. SEE PLAN AND SCHEDULE WHERE SPECIAL MASONRY COLS OCCUR AT JAMBS, BELOW BEAM BEARING OR OTHER LOCATIONS.
5. 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.
6. NO DUCTS, OPENINGS, OR PENETRATIONS SHALL OCCUR THROUGH BEAMS UNLESS NOTED ON STRUCTURAL DRAWINGS.
7. MASONRY WALLS ABOVE BEAMS, WHERE OCCUR SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, UNO.
8. REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL HORIZONTAL AND VERTICAL REINFORCING.

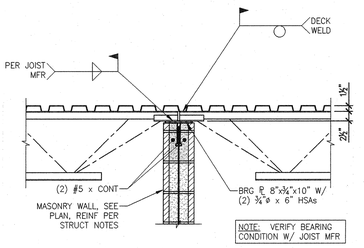


DBL WYTHE MASONRY BEAM DETAIL

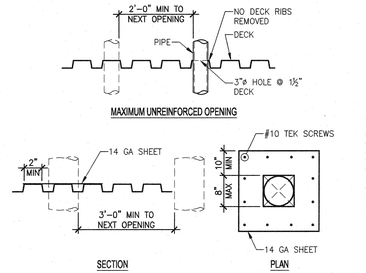
MASONRY BEAM DETAIL



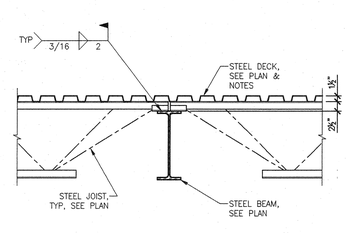
B1 5246_06 SCALE: 3/4" = 1'-0"



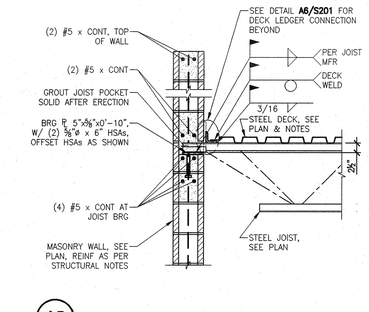
B2 5245_04 SCALE: 3/4" = 1'-0"



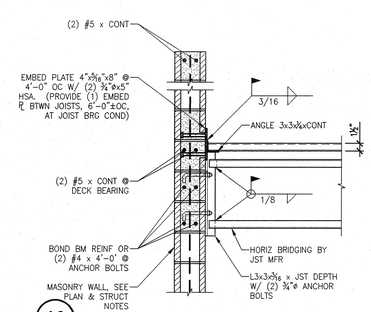
B3 4677_01 SCALE: NONE



B4 4445_04 SCALE: 3/4" = 1'-0"



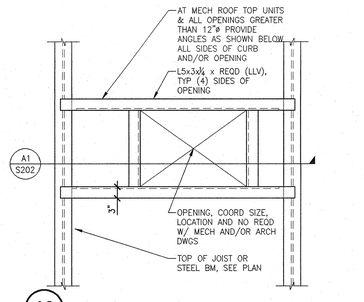
A5 4552.01 SCALE: 3/4" = 1'-0"



A6 5246_04 Bridging To Wall SCALE: 3/4" = 1'-0"

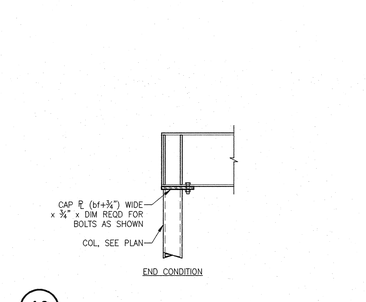
MASONRY BEAM SCHEDULE

SCALE: NONE

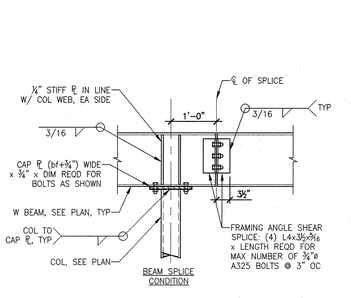


A1 4546_02 SCALE: NONE

A2 4546_03 SCALE: NONE



A3 4344_05 S-BMCON2 SCALE: 3/4" = 1'-0"



A4 4344_06 SCALE: 3/4" = 1'-0"

CALDER RICHARDS CONSULTING ENGINEERS
634 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.466.1899 F: 801.467.2495

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NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCHOLIC BEVERAGE CONTROL
CEDAR CITY, UT

STRUCTURAL 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:
PERMIT RESPONSE 04-07-09

DFCM PROJECT NO.:
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CONSTRUCTION DOCS
FILE NAME: S202.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 31, 2009

S202

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PIPING LEGEND

GATE VALVE		CHILLED WATER SUPPLY	—CHS—
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	—CHR—
BALL VALVE		CONDENSER WATER SUPPLY	—CWS—
BUTTERFLY VALVE		CONDENSER WATER RETURN	—CWR—
MOTORIZED BUTTERFLY VALVE	M	HEATING WATER SUPPLY	—HWS—
HEAT TRACING		HEATING WATER RETURN	—HWR—
DEIONIZED WATER	—DI—	WATER TREATMENT	—WT—
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	—HG—
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	—RL—	PIPE CAP	
REFRIGERANT SUCTION	—RS—	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	—T—
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	—D—
FLOW SWITCH	F	ROOF DRAIN PIPING	—RD—
AQUASTAT	A	OVERFLOW DRAIN PIPING	—OD—
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	—SD—
VACUUM	—V—	STORM DRAIN PIPING BELOW GRADE	—SD—
FLOOR DRAIN		FIRE SERVICE	—F—
FLOOR SINK		NATURAL GAS	—G—
HOT GAS BYPASS	—HGBP—	COMPRESSED AIR	—CA—
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	—S—
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	—C—

MECHANICAL LEGEND

- RETURN OR EXHAUST DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- SUPPLY AIR DUCT DOWN
- SUPPLY AIR DUCT UP
- SPIN-IN FITTING W/MVD
- FLEXIBLE DUCT
- CEILING SLOT DIFFUSER
- CEILING DIFFUSER
- CEILING EXHAUST GRILLE
- CEILING GRILLE
- ACCESS PANEL
- MANUAL VOLUME DAMPER
- MOTORIZED DAMPER (M)
- FIRE DAMPER (F)
- COMBINATION FIRE/SMOKE DAMPER (FS)
- THERMOSTAT OR TEMP SENSOR (T)
- POINT OF CONNECTION TO EXISTING
- DETAIL TAG — DETAIL NO. / DRAWING NO.
- KEYED NOTE — NOTE NO.
- SECTION CUT LINE — SECTION NO. / DRAWING NO.
- CONTROL TRANSFORMER (TRX)
- LOW PRESSURE DUCT W/ TURNING VANES
- BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED

GENERAL NOTES

1. 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" - 2.0 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 STRECHED 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 SHOWN ARE INSIDE CLEAR DIMENSIONS.
14. M.C. IS TO REAL ALL KEYED NOTOES 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.)

PLUMBING FIXTURE CONNECTION SCHEDULE

	DESCRIPTION	CONNECTION SIZE: COLD WATER	HOT WATER	WASTE	VENT	SPECIFICATIONS
WC-1	WATER CLOSET (HANDICAP)	1½"	NA	4"	3"	K-4302, SEAT: 1655/C, FLUSH VALVE: ZURN ZR-6000XL-WS1 (INSTALL FLUSH HANDLE TO BE ON OPEN SIDE)
U-1	WALL MOUNTED URINAL (ADA) AUTOMATIC FLUSH VALVE	¾"	N/A	2"	1½"	URINAL: KOHLER DEXTER MODEL K-5016-ET ELONGATED URINAL WITH TOP ¾" SPUD 1.0 GPF. FLUSH VALVE: KOHLER MODEL: K-10961 BATTERY POWERED. MOUNT AT 17" A.F.F.
L-1	LAVATORY	½"	½"	1½"	1¼"	KOHLER: GREENWICH WALL MOUNT K-2031-N W/ ACCESSORY MODEL #102G FOR HANDICAP INSTALLATION & K-8998 TRAP FAUCET: SYMMONS ULTRA SENSE S-6080-G W/ GRID DRAIN POWER HYDROGUARD SERIES 480 TEMPERING VALVE.
HB-1	HOSE BIBB	¾"	N/A	N/A	N/A	WOODFORD: MODEL 74P-¾
FD-1	FLOOR DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 2005 w/ A05NB 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/ ½ GRATE AND TRAP PRIMER
SC-1	SILLCOCK	¾"	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 DOME PROVIDE CAST IRON DOME.
OD-1	OVERFLOW DRAIN	N/A	N/A	SEE PLANS	N/A	J.R. SMITH 1080Y - C - R - CI DOME PROVIDE CAST IRON DOME.
DSN-1	DOWNSPOUT NOZZLE	N/A	N/A	SEE PLANS	N/A	J.R. SMITH 1770
WHA	WATER HAMMER ARRESTORS	AS REQUIRED	AS REQUIRED	N/A	N/A	J. R. SMITH 5020
SS-1	SERVICE SINK	¾"	¾"	3"	2"	KOHLER: K-6710 w/ K-9142 STRAINER FAUCET: CHICAGO FAUCET MODEL # 897-RCF
S-1	SINK (SS 2 COMPARTMENT)	½"	½"	2"	1½"	JUST: DLX-1829-A-GR WITH J35 STRAINER FAUCET: CHICAGO FAUCET MODEL # 786-SWE29CP PROVIDE W/ GARBAGE DISPOSAL UNIT GDU-1: ISE MODEL PRO 77, 1 hp, 115 V, 1Φ, 9.0 amps
EWC-1	ELECTRIC WATER COOLER	½"	N/A	1½"	1¼"	SUNROC: NWCA-8-BL (BI LEVEL FOUNTAIN) 7.8 gph, 4.5 FLA, 415 Watts, 120v - 1Φ, R-134A
IMB-1	ICE MAKER BOX	½"	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 ¼ TURN STOPS INSTALLED (NO EXCEPTIONS TAKEN).

ROOF TOP UNIT SCHEDULE RTU-

PLAN CODE	UNIT TONAGE	TOTAL CFM	EXTERNAL STATIC PRESSURE	DESIGN CRITERIA: OUTSIDE AIR TEMP.	RETURN AIR DB	RETURN AIR WB	LEAVING AIR TEMP	EER	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPACITY: INPUT (MBH)	OUPUT (MBH)	ELECTRICAL: VOLTS PHASE	MCA	MOP	DIMENSIONS (in.): Length	Width	Height	OPER. WEIGHT (lbs)	MANUFACTURER & MODEL NO	REMARKS
RTU-1 & RTU-2	8.5	3,600	0.6	95	80	62	54.3/53.2	10.2	75.92	166.40	134.78	208 / 3	45.1	60	89	54	55	1,550	TRANE YSC102A3EHA	SEE GENERAL NOTES
RTU-3 thru. RTU-7	5	2,000	0.6	95	80	62	54.3/53.2	10.2	47.41	108.16	86.53	208 / 3	31.5	45	70	45	51	800	TRANE YSC060A3EHA	SEE GENERAL NOTES

GENERAL NOTES:

1. VALUES ARE RATED AT SITE ELEVATION.
2. PROVIDE 10% MINIMUM OUTSIDE AIR SET POINTS.
3. PROVIDE 14" HIGH SEWLF 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.
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 Ft. OF PLEMUN 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: WATTS	H.P.	VOLTAGE & PHASE	SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	ACCESSORIES
EF-1 thru. EF-3	SEE PLANS	ROOF CENTRUGAL	100	.25"	970	NA	1/6	120 / 1	5.2	BACK DRAFT	Switch with lights	12" x 12"	65	PENN BARRY DOMEX DX08B	PROVIDE FACTORY 14" CURB

GAS FIRED UNIT HEATER SCHEDULE UH-

PLAN CODE	HEATING MBH OUTPUT REQ'D. ELEVATION	MANUFACTURER & MODEL NO.	SPECIFIED UNIT CAP.: INPUT (S.L.) (MBH)	OUTPUT (S.L.) (MBH)	CFM (STD.)	THROW AT 12' MOUNTING (FT.)	ELECTRICAL: VOLT/ PHASE	FAN H.P.	FLUE SIZE / TYPE	SIZE: LENGTH	WIDTH	HEIGHT	WEIGHT	REMARKS
UH-1	80	MODINE PD 100	100	80	1,460	41	120 / 1	1/12	6"Φ / "B"	30"	18"	29"	110 lbs.	W/T-STAT, PIPE HANGER KIT AND FACTORY 2LB. GAS TRAIN.

THIS APPLIES TO ALL:

ALL EQUIPMENT, SUPPLIES AND INSTALL ION SHALL COMPLY TO DFCM STANDARDS.
THE DFCM STANDARDS CAN BE FOUND AT WWW: DFCM.UTAH.GOV.
IT IS OUR KNOWLEDGE THAT THESE DRAWINGS MEET THE DFCM STANDARDS, BUT DOES NOT RELIEF CONTRACTOR FROM REFEREEING AND FOLLOWING DFCM STANDARDS.

AIR DEVICE SCHEDULE

GRILLE NUMBER — GRILLE CFM

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	MANUFACTURER & MODEL NO.	REMARKS
1	SUPPLY	8"Φ	See Plans	30	315	PRICE 8"Φ / RCD / B12	
2	SUPPLY	10"Φ	See Plans	30	490	PRICE 8"Φ / RCD / B12	
3	SUPPLY	12"Φ	See Plans	30	630	PRICE 8"Φ / RCD / B12	
4	SUPPLY	6"Φ	See Plans	30	235	PRICE 6"Φ / 12" x 12" / SCDA / 3 / B12	
5	SUPPLY	8"Φ	See Plans	30	400	PRICE 8"Φ / 24" x 24" / SCDA / 3 / B12	
6	SUPPLY	10"Φ	See Plans	30	545	PRICE 10"Φ / 24" x 24" / SCDA / 3 / B12	
7	EXHAUST	6"Φ	See Plans	16	180	PRICE 6"Φ / 12" x 12" / PDDR / 2 / B12	PROVIDE OBD
8	RETURN	22" x 22"	See Plans	10	1340	PRICE 22" x 22" / 24" x 24" / PDDR / 3 / B12	PROVIDE W/SOUND BOOT
9	SUPPLY	16" x 6"	Side Wall	30	415	PRICE 16" x 6" / 520D / 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
P-1	CIRCULATOR	8	26	3250	1/8	120 / 1	TACO 0013	BRONZE FITTED

ELECTRIC WATER HEATER SCHEDULE EWH-

PLAN CODE	INPUT (KW)	RECOVERY RATE (GAL/HR)	TEMP RISE (°F)	DIMENSIONS	ELECTRICAL: VOLT & PHASE	AMPS	MANUFACTURER & MODEL NO.	REMARKS
EWH-1	2,500	13	80	26" x 18" x 21"	208 / 1	10.4	A.O. SMITH DEL-15	WITH AMTROL ST-5 EXPANSION TANK

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

MECHANICAL SCHEDULES & NOTES

REGISTERED PROFESSIONAL ENGINEER ALAN D. SPENDLOVE 166911 STATE OF UTAH 4/1/09

REVISION # DATE:

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FILE NAME: See Sheet
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CHECKED BY: P.M.'s
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M0.1

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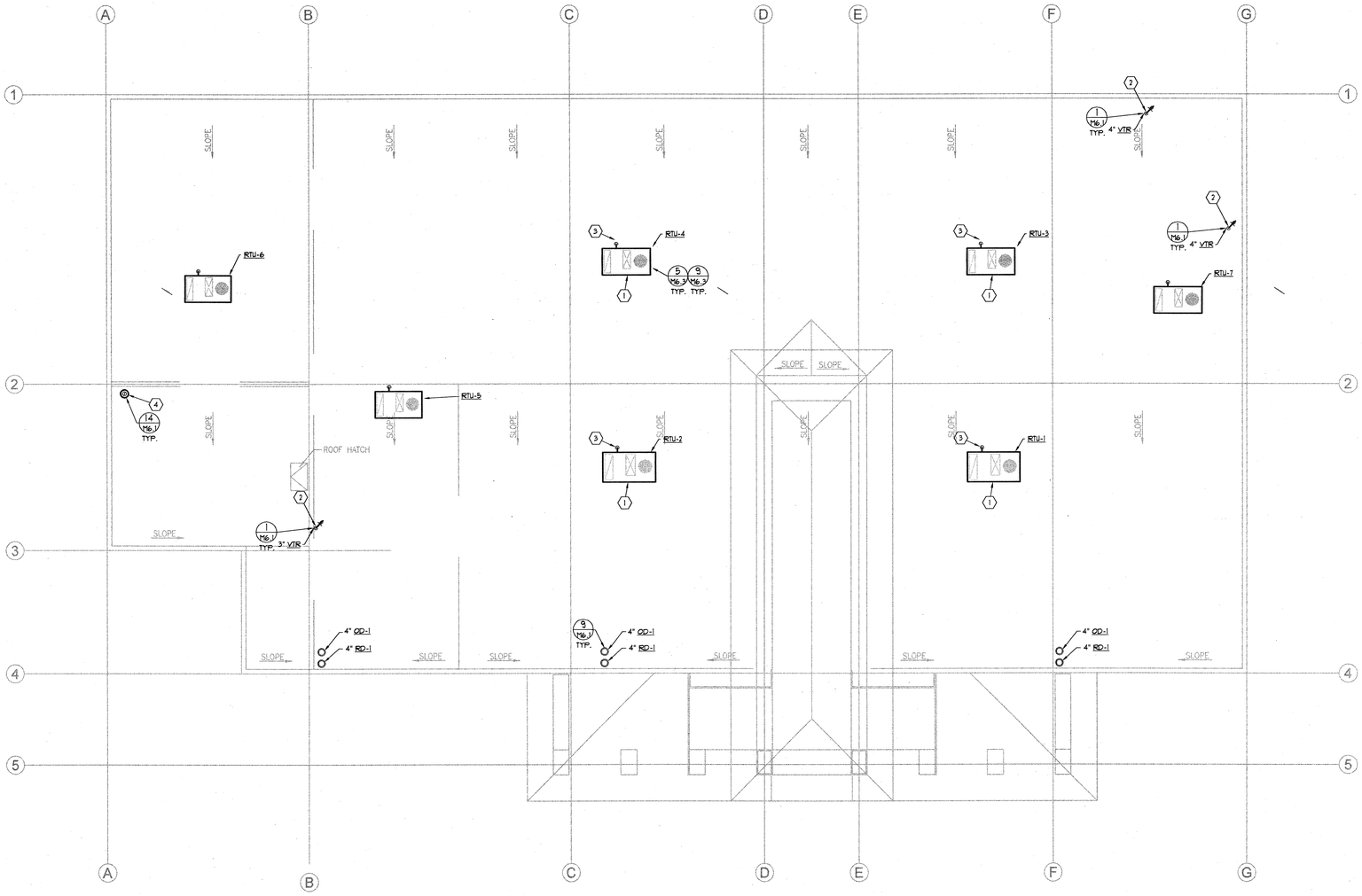

KEYED NOTES:

1. COORDINATE WITH ARCH's PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT. (TYPICAL).
2. VENT THOUGH ROOF. WATER PROOF AND SEAL ALL PENETRATIONS AS REQUIRED. (TYPICAL).
3. COORDINATE ALL OTHER TRADES AND DROP GAS PIPING DOUN 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.

GENERAL NOTES:

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

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

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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ROOF PLAN

REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENCER
166611
STATE OF UTAH
4/30/09

REVISION # DATE:

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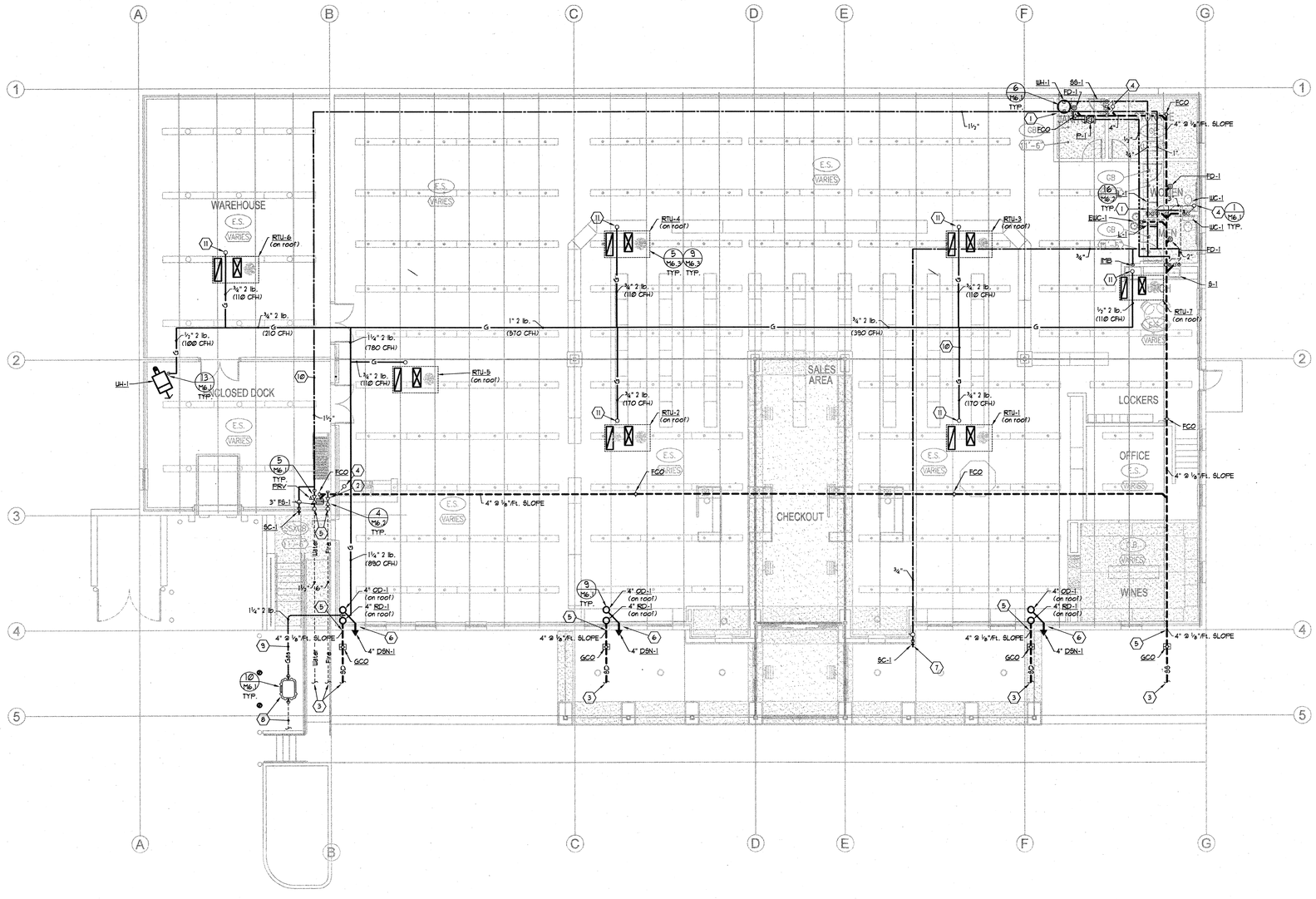

KEYED NOTES:

1. M.C. TO PROVIDE 4" THICK HOUSE KEPING 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 Ft. OUTSIDE OF BLDG. (TYPICAL).
4. VENT THOUGH ROOF. WATER PROOF AND SEAL ALL PENETRATIONS AS REQUIRED. (TYPICAL).
5. M.C. TO COORDINATE WITH CIVIL AND ARCH's PLANS FOR FINIAL 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 COCKS. (TYPICAL).
8. YARD GAS PIPING AND GAS METER BY LOCAL GAS COMPANY. METER SIZE REQUIREMENTS - 1,000 CFH @ 2 lb. PIPING SIZED FOR TOTAL LENGHT OF 250 Ft.
9. M.C. TO DROP PIPING TO ROUTE INTO BUILDING BELOW SLAB. PROVIDE REQUIRED PIPING WITH-IN VENTED SLEEVE AS REQUIRED BY CODE. COORDINATE WITH LOCAL GAS COMPANY.
10. ROUTE PIPING UP IN JIOST SPACE.
11. RISE GAS PIPING UP THOUGH ROOF AND CONNECT TO MECHANICAL EQUIPMENT AS REQUIRED BY CODE. (TYPICAL).

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 CEILINGS.
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 @ ¼"/Ft. SLOPE AND PIPING 4" AND LARGER SHALL SLOPE @ ⅛"/Ft. SLOPE.
12. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING SYSTEMS.

M 2.1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"
6' 0 4' 8' 12' 16'

NEW CEDAR CITY LIQUOR STORE
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CEDAR CITY, UTAH

PLUMBING 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) 532-4220

REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENDLOVE
166911
STATE OF UTAH
4/6/09

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Salt Lake City, UT 84116
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M2.1

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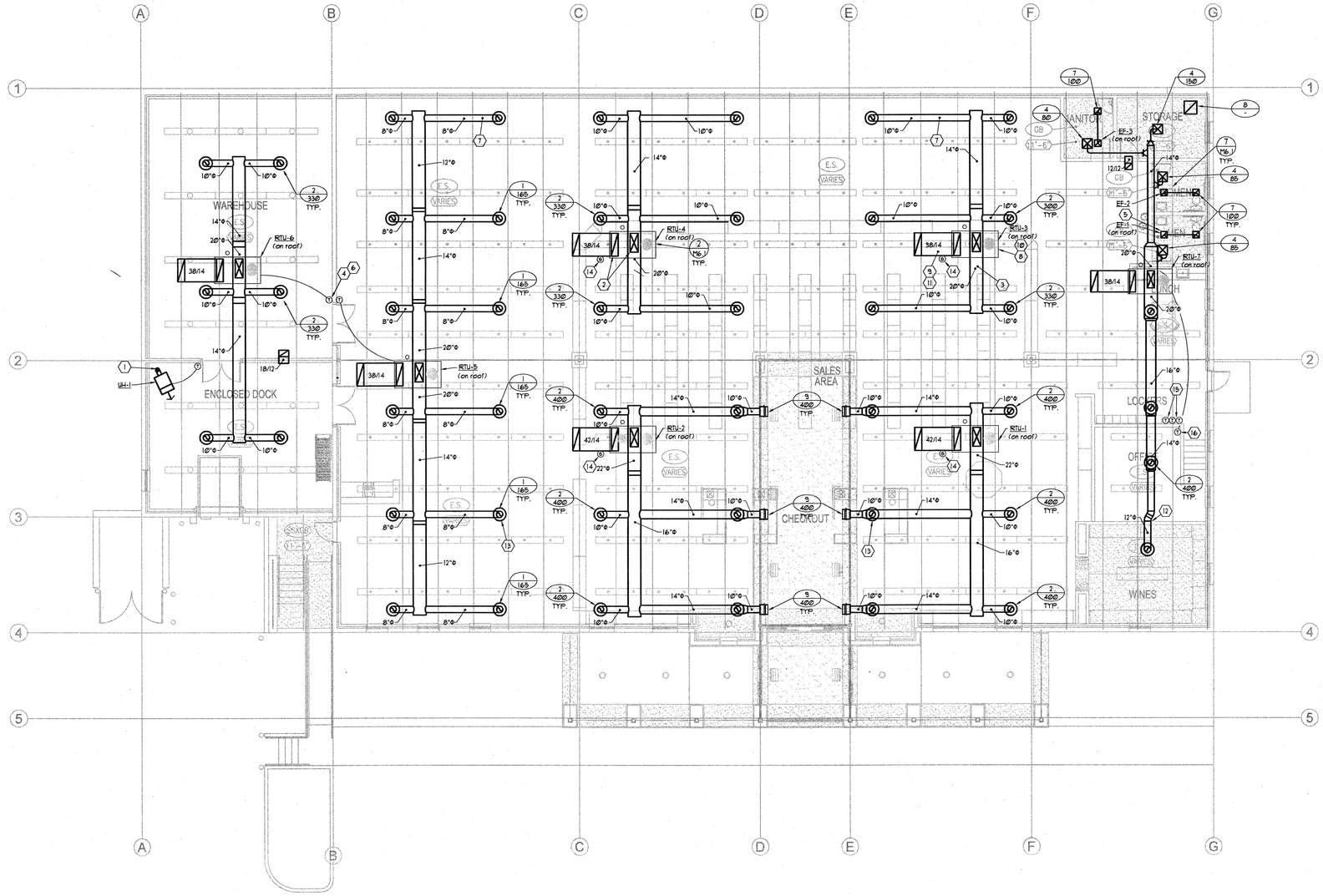

KEYED NOTES:

1. 6" TYPE "B" FLUE UP THROUGH ROOF SEE DETAIL 6/M6.2
2. PROVIDE AND INSTALL DUCTWORK DROPS DOWN FROM UNIT SIZED FULL SIZE OF UNITS OPENINGS. (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 9715I T-STAT'S. (TYPICAL)
5. 12" x 12" RISER TO EXHAUST FAN ON ROOF.
6. PROVIDE LOCKING COVER FOR T-STAT.
7. ROUTE DUCTWORK THOUGH WEBBING OF STRUCTURE. (TYPICAL)
8. OUTLINE OF RTU ON ROOF ABOVE.
9. HOLD DUCTWORK TIGHT TO BOTTOM OF STRUCTURAL.
10. COORDINATE WITH ARCH/STRUCTURAL PLANS AS TO FINAL LOCATION/OREIENTATION OF RTU'S. (TYPICAL)
11. PROVIDE 10' OF LINED RETURN AIR DUCTWORK WITH OPENING TURNED UPWARDS ON END.
12. COORDINATE WITH ARCH/STRUCTURAL PLANS TO ROUTE DUCTWORK UP INTO SLOPED CEILING IN WINE ROOM.
13. COORDINATE WITH ARCH's PLANS FOR FINAL ELEVATION OF GRILLES. (TYPICAL).
14. PROVIDE TEMPERATURE SENSOR FOR SPACE TEMP. CONTROL ON RETURN AIR DUCTWORK WITH ADJUSTABLE T-STAT ON WALL BY OFFICE AS SHOUN. (TYPICAL).
15. PROVIDE ROBERTSHAW 9715I T-STAT WITH LOCKING COVER FOR UNITS WITH TEMPERATURE SENSORS AT THIS LOCATION. (TYPICAL).
16. PROVIDE ROBERTSHAW 9715I T-STAT WITH LOCKING COVER. (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-STAT'S 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 AND DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
12. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRANT PROVISIONS OF IBC 1613.1 FOR ALL MECHANICAL SYSTEMS.

M 2.2 **HVAC PLAN**

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

6' 0 4' 8' 12' 16'

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HVAC 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) 532-4220

REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENDLOVE
166511
STATE OF UTAH
1-14-09

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1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
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M2.2

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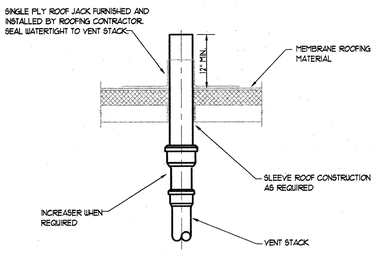
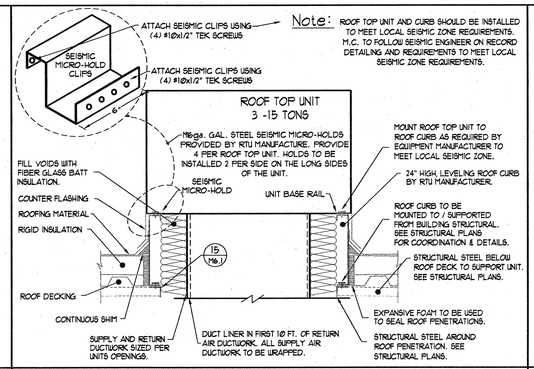


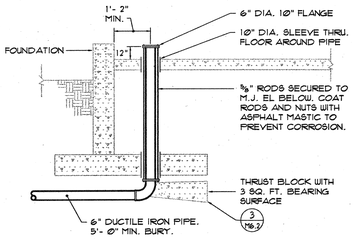
1 M6.1 VENT THROUGH ROOF DETAIL

NOT TO SCALE



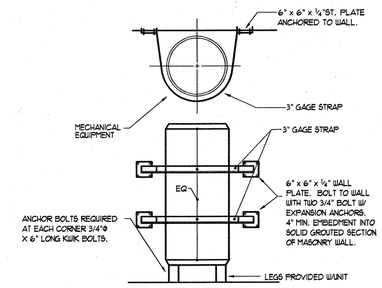
2 M6.1 ROOF TOP UNIT CURB DETAIL

NOT TO SCALE



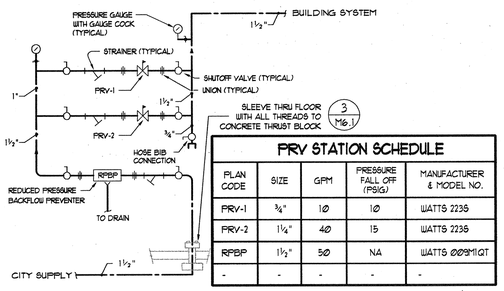
3 M6.1 WATER ENTRY DETAIL

NOT TO SCALE



4 M6.1 FLOOR MOUNTED EQUIPMENT ANCHOR & STRAP DETAIL

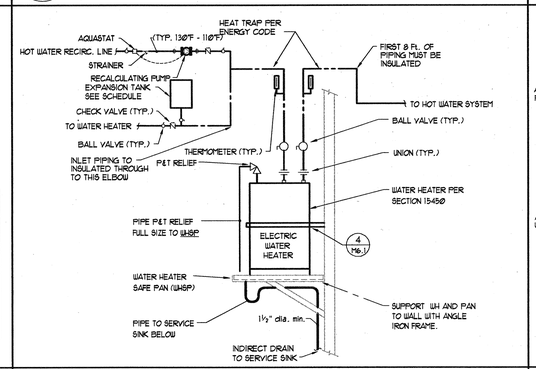
NOT TO SCALE



PRV STATION SCHEDULE				
PLAN CODE	SIZE	GPM	PRESSURE FALL OFF (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	¾"	10	10	WATTS 223S
PRV-2	1¼"	40	15	WATTS 223S
RPBP	1½"	50	NA	WATTS 009M1QT
-	-	-	-	-

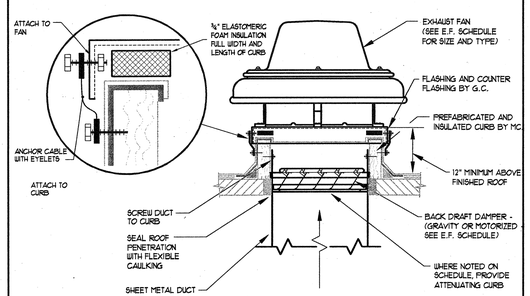
5 M6.1 PRV STATION DETAIL

NOT TO SCALE



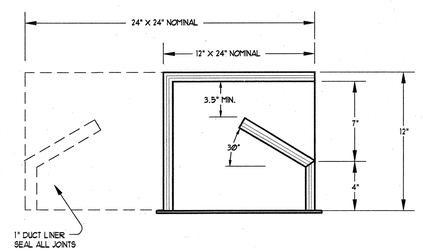
6 M6.1 ELECTRIC WATER HEATER PIPING DETAIL (WALL HUNG)

NOT TO SCALE



7 M6.1 EXHAUST FAN AND CURB DETAIL

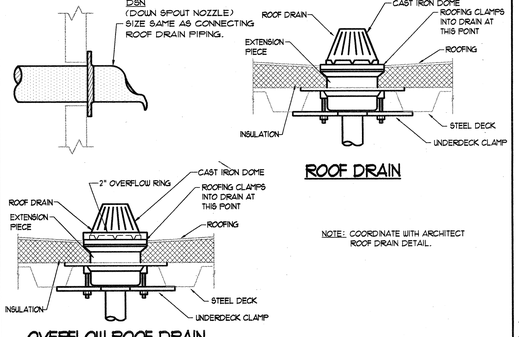
NOT TO SCALE



TYPICAL OF ALL RETURN AIR GRILLES

8 M6.1 RETURN AIR GRILLE SOUND BOOT DETAIL

NOT TO SCALE



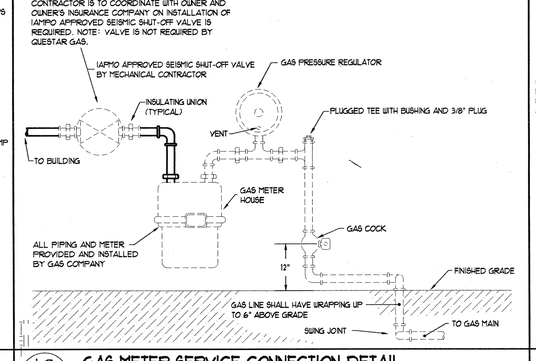
ROOF DRAIN

NOTE: COORDINATE WITH ARCHITECT ROOF DRAIN DETAIL.

OVERFLOW ROOF DRAIN

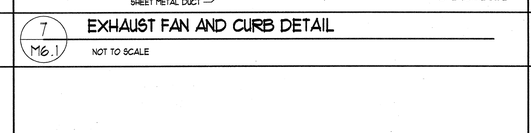
9 M6.1 ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL

NOT TO SCALE



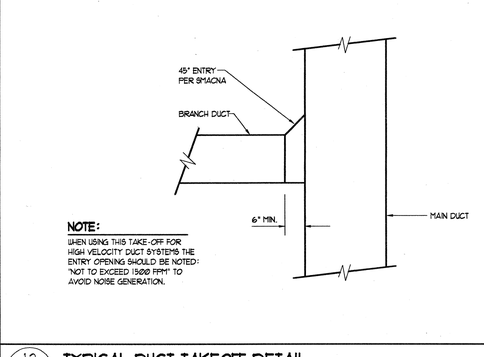
10 M6.1 GAS METER SERVICE CONNECTION DETAIL

NOT TO SCALE



11 M6.1 DIFFUSER MOUNTING DETAIL

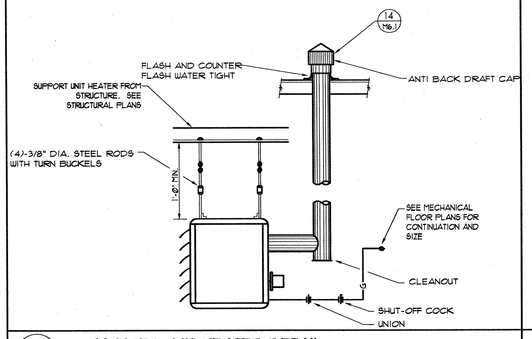
NOT TO SCALE



NOTE:
WHEN USING THIS TAKE-OFF FOR HIGH VELOCITY DUCT SYSTEMS THE ENTRY OPENING SHOULD BE NOTED: "NOT TO EXCEED 1500 FPM" TO AVOID NOISE GENERATION.

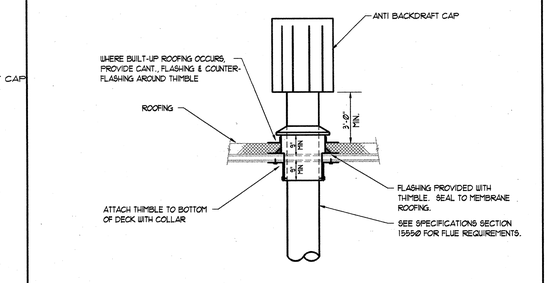
12 M6.1 TYPICAL DUCT TAKEOFF DETAIL

NOT TO SCALE



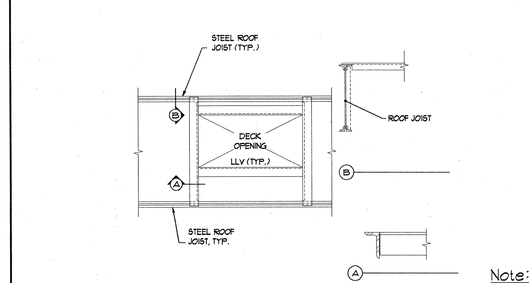
13 M6.1 GAS FIRED UNIT HEATER DETAIL

NOT TO SCALE



14 M6.1 FLUE ROOF PENETRATION DETAIL

NOT TO SCALE



Note: ROOF TOP UNIT AND CURB SHOULD BE INSTALLED TO MEET LOCAL SEISMIC ZONE REQUIREMENTS. M.C. TO FOLLOW SEISMIC ENGINEER ON RECORD DETAILING AND REQUIREMENTS TO MEET LOCAL SEISMIC ZONE REQUIREMENTS.

15 M6.1 ROOF CURB SEISMIC DETAIL (See Structural Plan for final detailing)

NOT TO SCALE

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

NEW CEDAR CITY LIQUOR STORE

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CEDAR CITY, 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

REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENDLOVE
166911
STATE OF UTAH
4/1/09

REVISION # DATE:

DFCM PROJECT NO.: 08227030
CONST. DOC.
FILE NAME: See Sheet
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: P.M.'s
DATE: JANUARY 2009

MECHANICAL DETAILS

M6.1

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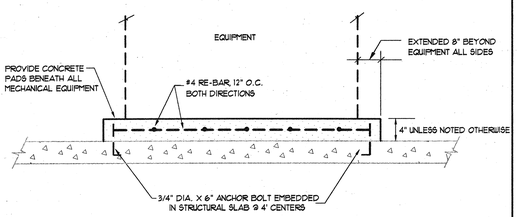
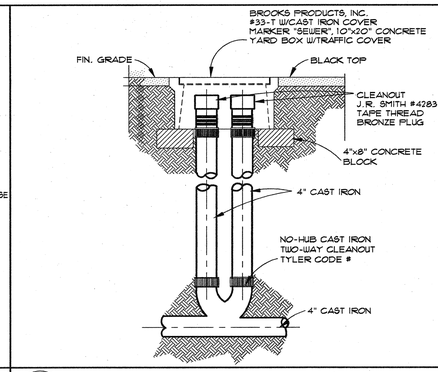


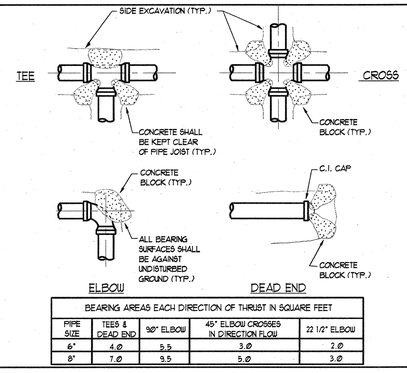
1 M6.2 HOUSEKEEPING PAD DETAIL

NOT TO SCALE



2 M6.2 TWO - WAY CLEANOUT DETAIL

NOT TO SCALE

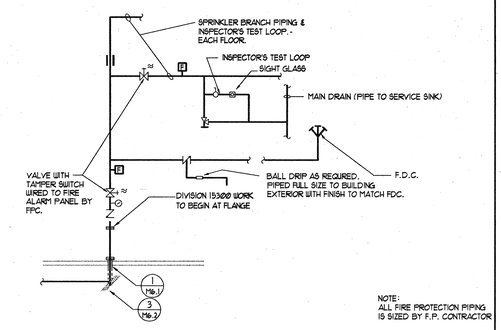


BEARING AREAS EACH DIRECTION OF THRUST IN SQUARE FEET

PIPE SIZE	TEES & DEAD END	90° ELBOW	45° ELBOW CROSSES IN DIRECTION FLOW	22 1/2° ELBOW
6"	4.0	5.5	3.0	2.0
8"	7.0	9.5	5.0	3.0

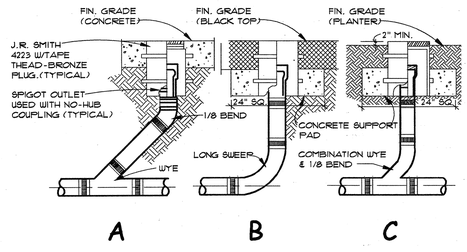
3 M6.2 THRUST BLOCK DETAIL

NOT TO SCALE



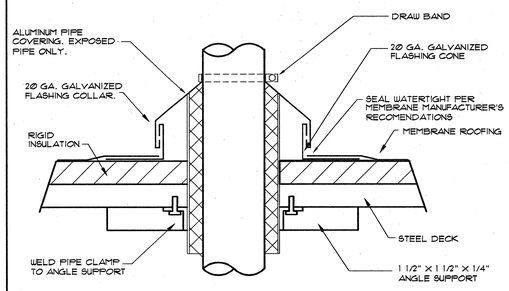
4 M6.2 TYPICAL FIRE SPRINKLER SERVICE ENTRY DETAIL

NOT TO SCALE



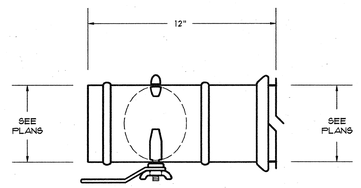
5 M6.2 SURFACE/YARD CLEANOUT DETAIL

NOT TO SCALE



6 M6.2 PIPE PENETRATION THRU ROOF DETAIL

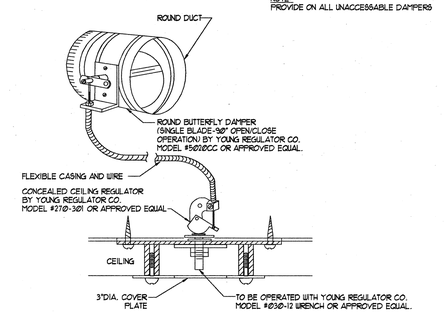
NOT TO SCALE



7 M6.2 TYPICAL MANUAL VOLUME DAMPER DETAIL

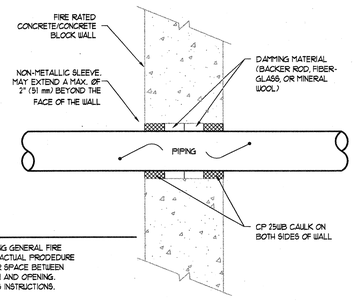
NOT TO SCALE

NOTE:
PROVIDE ON ALL UNACCESSABLE DAMPERS



8 M6.2 DAMPER AND REGULATOR DETAIL

NOT TO SCALE

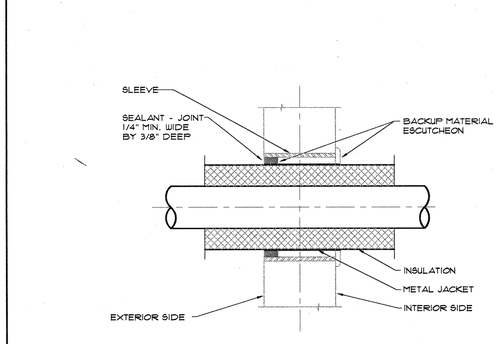


NOTE !!!

TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

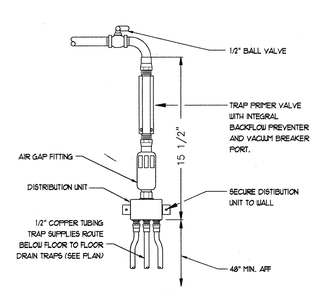
9 M6.2 FIRESTOP thru. CONCRETE WALL

NOT TO SCALE



10 M6.2 PIPE SLEEVE FOR INSULATED PIPE THRU WALL

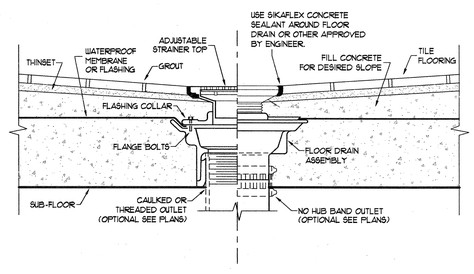
NOT TO SCALE



11 M6.2 TRAP PRIMER DETAIL

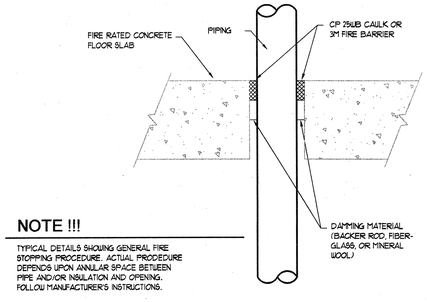
NOT TO SCALE

NOTE: THIS IS A TYPICAL FLOOR DRAIN INSTALLATION. FOR DIFFERENT TYPES OF FLOORING THE TOP FINISH (SHOWN AS THINSET AND TILE) MAY DIFFER FROM WHAT'S SHOWN. SEE ARCHITECTURAL PLANS FOR FLOORING TYPES.



12 M6.2 TYPICAL FLOOR DRAIN / SINK DETAIL

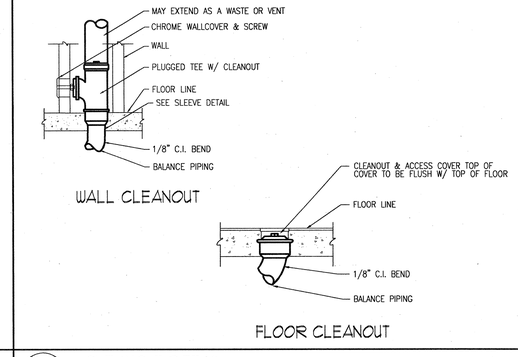
NOT TO SCALE



NOTE !!!

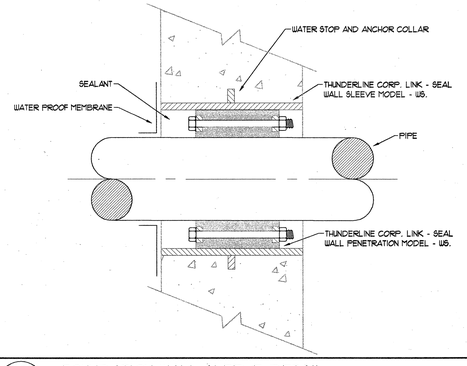
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

13 M6.2 FIRESTOP thru. CONCRETE FLOOR



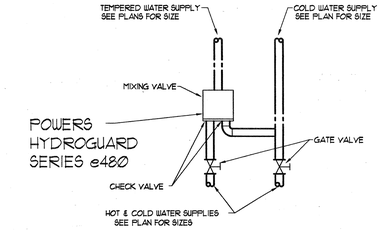
14 M6.2 CLEANOUT DETAIL

NOT TO SCALE



15 M6.2 FOUNDATION WALL SLEEVE DETAIL

NOT TO SCALE



16 M6.2 MIXING VALVE DETAIL

NO SCALE

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1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

NEW CEDAR CITY LIQUOR STORE

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MECHANICAL 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

REGISTERED PROFESSIONAL ENGINEER ALAN RD SPENDLOVE 166911 STATE OF UTAH 4/6/09

REVISION #	DATE:

DFCM PROJECT NO.: 08227030
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FILE NAME: See Sheet
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DRAWN BY: STAFF
CHECKED BY: P.M.'s
DATE: JANUARY 2009

M6.2

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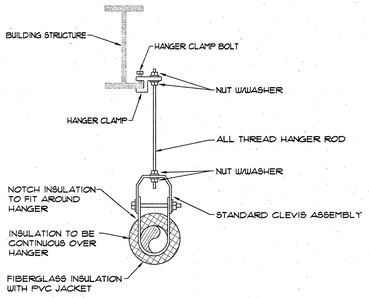
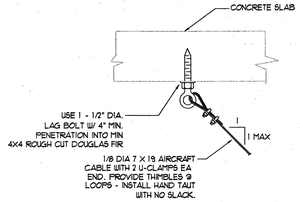
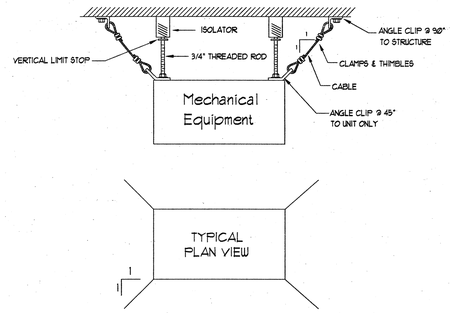


1 M6.3 PIPE HANGER DETAIL
NOT TO SCALE



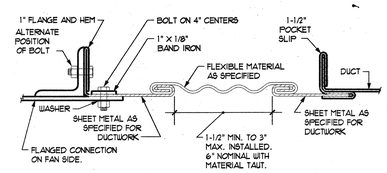
ANCHORAGE OF 1/8 INCH DIA AIR CRAFT CABLE IN WOOD.

2 M6.3 ANCHORAGE OF AIRCRAFT CABLE DETAIL
NOT TO SCALE

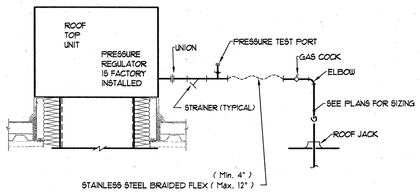


NOTES: 1) CABLES TO BE INSTALLED HAND TAUT W/O SLACK.
2) CABLE IS 7 X 19 AIRCRAFT CABLE.

3 M6.3 CABLE RESTRAINT DETAIL
NOT TO SCALE

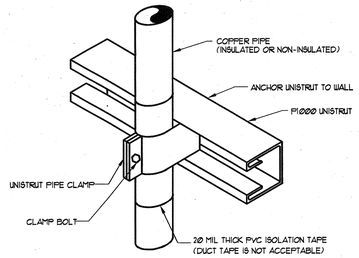


4 M6.3 RETANGULAR FLEXIBLE CONNECTION DETAIL
NOT TO SCALE



NOTE:
1. PIPING AND PIPING COMPONENTS REQUIREMENT TO MEET ALL CURRENT CODES.
2. CONTRACTOR TO VERIFY UNITS PRESSURE REGULATOR MEETS BUILDING GAS PRESSURE. IF NOT, CONTRACTOR TO PROVIDE EXTERNAL REGULATOR AS REQUIRED.

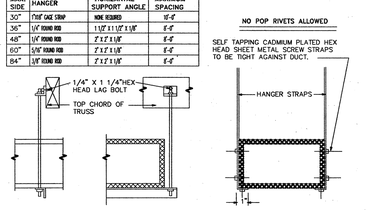
5 M6.3 GAS PIPING FOR RTU
NOT TO SCALE



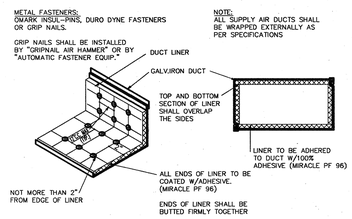
6 M6.3 PIPE SUPPORT DETAIL
NOT TO SCALE

HANGER SIZES FOR RECTANGULAR DUCT

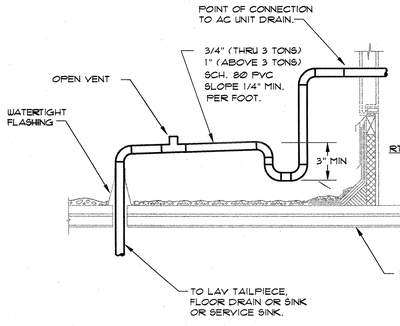
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"x8" CAZ STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	2" X 2" X 1/8"	8'-0"
60"	5/16" ROUND ROD	2" X 2" X 1/8"	8'-0"
84"	3/8" ROUND ROD	2" X 2" X 1/8"	8'-0"



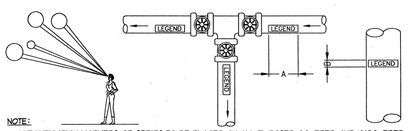
7 M6.3 DUCT STRAP HANGER DETAIL
NOT TO SCALE



8 M6.3 DUCT LINER DETAIL
NOT TO SCALE



9 M6.3 CONDENSATE DRAINAGE DETAIL
SCALE: NTS

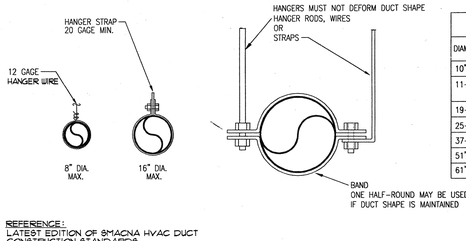


NOTE:
IDENDIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES, BRANCHES, CHANGE IN DIRECTION OF FLOW AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME, ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATION DIRECTION OF FLOW.

OUTSIDE DIAMETER OF PIPE OR COVERING		LENGTH OF COLOR FIELD A		SIZE OF LETTERS B	
INCHES	MM	INCHES	MM	INCHES	MM
3/4" TO 1-1/4"	19 TO 32	8"	200	1/2"	13
1-1/2" TO 2"	38 TO 51	8"	200	3/4"	19
2-1/2" TO 6"	64 TO 150	12"	300	1-1/4"	32
8" TO 10"	200 TO 250	24"	600	2-1/2"	64
OVER 10"	OVER 250	32"	800	3-1/2"	89

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RETURN	YELLOW	BLACK ON YELLOW
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED
NATURAL GAS	YELLOW	BLACK ON YELLOW
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

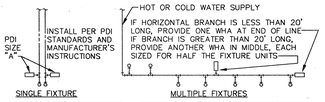
10 M6.3 PIPE IDENTIFICATION DETAIL
NOT TO SCALE



REFERENCE:
LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS LOWER HANGER ATTACHMENTS FIGURE

MINIMUM HANGER SIZE FOR ROUND DUCT				
DIAMETER	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
10" DN	12'	ONE 12 Ga.	1/4"	1"x22 Ga.
11-18"	12'	TWO 12 Ga. OR ONE 8 Ga.	1/4"	1"x20 Ga.
19-24"	12'	TWO 10 Ga.	1/4"	1"x20 Ga.
25-36"	12'	TWO 8 Ga.	3/8"	1"x20 Ga.
37-50"	12'	N/A	TWO 3/8"	TWO 1"x20 Ga.
51"-60"	12'	N/A	TWO 3/8"	TWO 1"x18 Ga.
61"-84"	12'	N/A	TWO 3/8"	TWO 1"x16 Ga.

11 M6.3 ROUND DUCT HANGER DETAIL
NOT TO SCALE



SINGLE FIXTURE

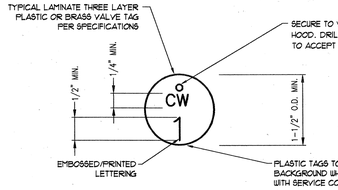
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

MULTIPLE FIXTURES

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. SIZING CHARTS ARE BASED ON SIOUX CHIEF. USE SPECIFIC MANUFACTURERS SIZING CHARTS.

12 M6.3 WATERHAMMER ARRESTERS DETAILS
SCALE: NTS



NOTE:
REFERENCE ALL "VALVE TAGS" TO "VALVE TAG CHART", "O&M MANUALS DATA" (INDEX VALVES PER CHART).

TAG LEGEND (PLUMBING EXAMPLE)

CW = COLD WATER
HW = HOT WATER
HWC = HOT WATER RECIRCULATING
G = NATURAL GAS
FP = FIRE PROTECTION

TAG LEGEND (FIRE PROTECTION EXAMPLE)

FP-C = FIRE PROTECTION CONTROL VALVES
FP-D = FIRE PROTECTION DRAIN VALVES

EXAMPLE VALVE TAG CHART

VALVE TAG CHART FOR: XXXXXXXX MOD: XXX AREA: XXX WING : XX FLOOR: XX

VALVE TAG #	LOCATION (ALSO SEE AS-BUILT DWGS)	FUNCTION (WHAT IT DOES & WHAT/WHERE IT SERVICES)	TYPE	SIZE	MFG.	MODEL #
CW-1	RM. XXX - ABOVE CEILING	ON/OFF - FIXTURES IN RM. XXX & XXX	BV	1"	XXXX	XX-XXX-XX
CW-2	CORR. XXX - ABOVE DOOR @ RM. XXX	BALANCE - 2nd FLOOR, EAST SIDE, NORTH WING...	BF.V	1-1/2"	XXXX	XX-XXX-XX
CW-3	BOILER RM. XXX - NE CORNER	ON/OFF - MAIN - BLDG'S X,Y, & Z	GV	8"	XXXX	XX-XXX-XX
CW-4	RM. XXX - BEHIND N. ACCESS PANEL	ON/OFF - EXT. FIELDHOUSE & FIELD HYD. - IRRIGATION	BV	3"	XXXX	XX-XXX-XX
HW-1	RM. XXX - ABOVE CEILING	ON/OFF - MIXING VALVE - EYEWASH	BV	1"	XXXX	XX-XXX-XX

ALL MAJOR SYSTEMS ON-OFF, CONTROL AND BALANCING VALVES SHALL HAVE AN ASTERIK "#"

1 ABBREVIATIONS TO BE AS INDICATED FOR EACH DESIGN SYSTEM AS INDICATED ON DESIGN DRAWINGS.

2 VALVE TAGS SHOULD BE INDICATED IN "VALVE CHARTS" AND ON "PROJECT RECORD DRAWINGS TO CORRELATED WITH TAG I.D.'S.

13 M6.3 VALVE TAG DETAIL & VALVE CHART FORMAT
NOT TO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1) AT JOINTS: MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS &/OR INTERMEDIATE REINFORCING	MIN. TL IN.	DRIVE SLIP: PLAIN S, SLIP	DRIVE SLIP: HEMMED S, SLIP	ALTERNATE BAR SLIP	REINFORCED BAR SLIP	BAR SLIP	ANGLE SLIP	STAND. SEAM: ANGLE REINFOR STANDSEAM	POCKET LOCK: ANGLE REINFORCED POCKET LOCK
				RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE	REINFORCED ANGLE SIZE	REINFORCED ANGLE SIZE	REINFORCED ANGLE SIZE
UP THRU 12	26	NONE REQ.	1	26	26	24	24	24	NOT REQ.	NOT REQ.	NOT REQ.
13 - 18	24	NONE REQ.	1	24	24	24	24	24	NOT REQ.	NOT REQ.	NOT REQ.
19 - 30	24	10'0"/8 @ 60"	1	-	24	24	24	24	NOT REQ.	NOT REQ.	NOT REQ.
31 - 42	22	10'0"/8 @ 60"	1	-	-	22	22	22	NOT REQ.	NOT REQ.	NOT REQ.
43 - 54	22	1.5X1.5X1/8@60"	1 1/2	-	-	22	22	22	1.5X1.5X1/8	NOT REQ.	NOT REQ.
55 - 60	20	1.5X1.5X1/8@60"	1 1/2	-	-	-	22	22	1.5X1.5X1/8	NOT REQ.	NOT REQ.
61 - 84	20	1.5X1.5X1/8@32"	1 1/2	-	-	-	22	22	1.5X1.5X1/8	1.5X1.5X1/8	1.5X1.5X1/8

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED

14 M6.3 DUCT CONSTRUCTION DETAIL
NOT TO SCALE

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

NEW CEDAR CITY LIQUOR STORE
DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

MECHANICAL DETAILS

ALAN D. SPENDLOVE 166911 REGISTERED PROFESSIONAL ENGINEER STATE OF UTAH 4/10/09

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M6.3

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EQUIPMENT SUSPENSION DETAIL

EQUIPMENT RESTRAINT DETAIL

EQUIPMENT BRACE DETAIL

EQUIPMENT BRACING NOTES:

1. DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. SIZE RESTRAINTS PER EQUIPMENT OPERATING WEIGHTS.
4. PROVIDE LATERAL BRACING FOR ALL SUSPENDED EQUIPMENT.
5. SECURE FLOOR MOUNTED SPRING ISOLATED EQUIPMENT USING SEISMIC SPRING ISOLATORS.
6. RIGIDLY MOUNTED EQUIPMENT SHALL BE SECURED WITH ANCHOR BOLTS SIZED FOR OPERATING WEIGHTS. PROVIDE NEOPRENE WASHERS AND SLEEVES FOR EQUIPMENT MOUNTED ON NEOPRENE PADS.
7. 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.

1 / M6.4 EQUIPMENT SUSPENSION DETAIL

NOT TO SCALE

SIZE PIPE AS REQUIRED
SEE DRAWINGS

2 / M6.4 GAS PIPE SLEEVE VENTING DETAIL

NO 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"Φ	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"Φ	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"Φ	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"Φ	36
84" SQ.	4" X 4" X 1/4"	4" X 4" X 14 GA.	4" X 4" X 14 GA.	D.O.	3/8"Φ	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"Φ	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"Φ - 1" 5/8"Φ - 1-1/8"
3/8"Φ - 1" 3/4"Φ - 1-1/4"
1/2"Φ - 1" 7/8"Φ - 1-1/2"

DUCT BRACING NOTES:

1. DESIGN RESTRAINTS PER SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. 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 LONGITUDAL BRACE FOR A DUCT SECTION CONNECTED PERPENDICULAR TO IT, PROVIDING 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.

3 / M6.4 SEISMIC RESTRAINT OF DUCTS DETAIL

NOT TO SCALE

DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOISTS.

PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

* INSULATE ALL PIPING IN CONDITIONED AND UNCONDITIONS SPACES.

4 / M6.4 PIPE INSULATION DETAILS

NO SCALE

SCHEDULE "B" TRANSVERSE BRACING FOR PIPE						
PIPE SIZE INCHES	BOLTS TO ANGLES	LONGITUDAL, TRANSVERSE & VERTICAL ANGLES	ROD DIAMETER INCHES	MAXIMUM ROD LENGTH	MAXIMUM INTERVAL OF BRACES IN FEET: 40-S STEEL OR CAST IRON	MAXIMUM INTERVAL OF BRACES IN FEET: 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"	45.1	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"	53.9	28.6
10	1/2"	3" X 3" 1/4"	7/8"	43"	59.4	30.8

PIPING BRACING NOTES:

1. DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. SEISMIC BRACING IS REQUIRED FOR ALL PIPING 2-1/2" AND LARGER.
4. DO NOT USE BRANCH SECTIONS TO BRACE PIPING MAINS.
5. PROVIDE FLEXIBLE COUPLINGS AT PENETRATIONS THROUGH BUILDING SEISMIC AND EXPANSION JOINTS AND WHERE PIPING IS RIGIDLY CONNECTED TO EQUIPMENT.
6. 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 / M6.4 TRANSVERSE SWAY BRACING DETAIL

NOT TO SCALE

5 / M6.4 TRAP PRIMER DETAIL

SCALE: NTS

6 / M6.4 HEAT MAINTENANCE CABLE INSTALLATION DETAIL

SCALE: NTS

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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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

MECHANICAL DETAILS

REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENDLOVE
166911
STATE OF UTAH
4/6/09

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M6.4

By: khoacke; Apr 3, 2009 - 12:58 PM, Date Plotted: Apr 3, 2009 - 1:02 PM X:\Projects\2008\08224.00.01 - Liquor Store - Cedar City\E100 - 08224.01.dwg

ELECTRICAL SYMBOLS

NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT. DASHED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ETC.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
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-1,3	BRANCH CIRCUIT HOMERUNS TO PANEL w/PANEL & CIRCUIT NUMBER DESIGNATIONS.	N/A
	CONDUIT RISER UP	N/A
	CONDUIT RISER DOWN	N/A
	CONDUIT STUB (CAP CONDUIT)	AS NOTED
	CABLE TRAY	AS NOTED
	BUS DUCT	AS NOTED
ELECTRICAL POWER		
J	JUNCTION BOX	AS NOTED
	DUPLEX RECEPTACLE	+16"
	QUAD RECEPTACLE	+16"
	SPLIT WIRED DUPLEX RECEPTACLE	+16"
WP	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI	+16"
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"
EWC	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
	MUTI-OUTLET WIREWAY	+46"
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"
VFD	VARIABLE FREQUENCY DRIVE	+78"
	MOTOR CONNECTION	AS NOTED
ELECTRICAL DISTRIBUTION		
T	TELEPHONE COMPANY PEDESTAL	AS NOTED
GS	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"
EPO	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+48"
T	LINE VOLTAGE THERMOSTAT	+48"
	CLOCK	AS NOTED
N	NURSE CALL BED/BATH STATION	+48"
N	NURSE CALL LIGHT	+84"
NURS	NURSE CALL STATION PANEL	TOP AT 6'-0"

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
LIGHTING CONTROL		
$	SINGLE POLE SWITCH	+48"
$3	3-WAY SWITCH	+48"
$4	4-WAY SWITCH	+48"
$P	SWITCH WITH PILOT LIGHT	+48"
$D	DIMMER SWITCH	+48"
$K	KEYED SWITCH	+48"
$TM	TIMER SWITCH (SPRING WOUND)	+48"
$T	MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED
$L	LOW VOLTAGE SWITCH	+48"
$C	CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)	+48"
	SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION. MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY*	+48"
	OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING
TS	TIME SWITCH	+60"
	LIGHTING CONTACTOR	+60"
P	PHOTOCELL	AS NOTED
LIGHTING		
	FLUORESCENT FIXTURE (TYPICAL)	CEILING
EM	FLUORESCENT EMERSENCY FIXTURE (TYPICAL)	CEILING
	SURFACE MOUNTED FIXTURE	CEILING
	RECESSED FIXTURE	CEILING
	WALL MOUNTED FIXTURE	AS NOTED
	WALL MOUNTED EMERSENCY EGRESS FIXTURE	AS NOTED
	FLUORESCENT STRIP	CEILING
	TRACK LIGHTING	CEILING
	EMERGENCY LIGHTING UNIT	+84"
/XX	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)	+84"
	WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+84"
	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		
XX X	FEEDER TAG (ONE LINE DIAGRAM)	N/A
	REVISION TAG INDICATOR	N/A
EX	DETAIL INDICATOR: TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.	N/A
X-XX	MECHANICAL EQUIPMENT SYMBOL	N/A
X	KEYED NOTE REFERENCE	N/A

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
AUDIO / VIDEO		
TV	TELEVISION OUTLET	AS NOTED
V	VOLUME CONTROL	+48"
S	SPEAKER	CEILING
M	MICROPHONE JACK	+16"
A	AUXILIARY JACK	+16"
IC	INTERCOM STATION	+48"
	BELL	+84"
	CHIME	+84"
FIRE ALARM		
F	FIRE ALARM MANUAL PULL STATION	SEE DETAIL
	FIRE ALARM HORN/STROBE	SEE DETAIL
	FIRE ALARM HORN/STROBE WITH GUARD	SEE DETAIL
WP	FIRE ALARM HORN/STROBE WATERPROOF	SEE DETAIL
	FIRE ALARM STROBE	SEE DETAIL
S	SMOKE DETECTOR	CEILING
SB	SMOKE DETECTOR BATTERY-BACKED	CEILING
SD	DUCT SMOKE DETECTOR	IN DUCT
SE	SMOKE DETECTOR (ELEVATOR RECALL)	CEILING
H	HEAT DETECTOR	CEILING
G	GAS DETECTOR	+16"
	DOOR HOLDER	AS NOTED
	PRESSURE SWITCH	AS NOTED
	FIRE ALARM FLOW SWITCH	AS NOTED
T	FIRE ALARM TAMPER SWITCH	AS NOTED
	FIRE ALARM FIREFIGHTER PHONE	+48"
CM	CONTROL MODULE	AS NOTED
MM	MONITOR MODULE	AS NOTED
FSD	FIRE/SMOKE DAMPER	AS NOTED
R	FIRE ALARM RELAY	AS NOTED
GAA	FIRE ALARM GENERATOR ANNUNCIATOR	TOP AT 6'-0"
FST	FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED
FACP	FIRE ALARM CONTROL PANEL	TOP AT 6'-0"
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL	TOP AT 6'-0"
SECURITY		
	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB
	SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED
KP	SECURITY SYSTEM KEYPAD ARM/DISARM	+48"
	SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED
	SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED
REX	REQUEST TO EXIT MOTION DETECTOR	AS NOTED
	SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED
	SECURITY SYSTEM GLASS BREAK SENSOR	AS NOTED
CR	SECURITY SYSTEM CARD READER	+48"
AK	SECURITY SYSTEM DOOR ACCESS KEYPAD	+48"
	SECURITY SYSTEM CCTV CAMERA	AS NOTED
DVR	DIGITAL VIDEO RECORDER	AS NOTED
MON	SECURITY SYSTEM CCTV MONITOR	AS NOTED
SERT	SECURITY SYSTEM PANEL	TOP AT 6'-0"
PS	POWER SUPPLY* LOW VOLTAGE	AS NOTED

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	(N)	NEW
AFP	ARC FAULT PROTECTOR	EWH	ELECTRIC WATER HEATER	NIC	NOT IN CONTRACT
AIC	AMP INTERRUPTING CURRENT (SYMMETRICAL)	(F)	FUTURE	NL	NIGHT LIGHT
AL	ALUMINUM	FA	FIRE ALARM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BG	BELOW GRADE	FLA	FULL LOAD AMPS	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	GFI	GROUND FAULT INTERRUPTER	PNL	PANEL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GFP	GROUND FAULT PROTECTOR	(R)	RELOCATE
CKT	CIRCUIT	GRC	GALVANIZED RIGID CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CO	CONDUIT ONLY	GRND	GROUND	TYP	TYPICAL
CU	COPPER	IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
C/W	COMPLETE WITH	MCB	MAIN CIRCUIT BREAKER	WP	WEATHER PROOF
E	EMERGENCY	MCC	MOTOR CONTROL CENTER	(X)	DEMOLISH/DELETE
(E)	EXISTING	MH	MANHOLE	XMR	TRANSFORMER
EPO	EMERGENCY POWER OFF	MLO	MAIN LUGS ONLY		

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

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
2. 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 LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, 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 CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
3. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURES CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN INTENT AND SPECIFICATION.
4. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
5. 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.
6. 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.
7. 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 ELECTRICAL 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 PANELBOARD(S).
8. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
9. ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH IN OF ELECTRICAL DEVICE JUNCTION BOXES.
10. CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
11. 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.
12. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
13. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
14. ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.
15. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
16. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
17. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
18. 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.
19. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
20. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH UL LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
21. 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.
22. WIRE FOR GENERAL USE SHALL BE COPPER 75° C RATED . WIRING FOR HID FIXTURES WITHIN 3' OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
23. 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 INSURE 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 OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
24. ALL WIRING IN PATIENT TREATMENT AREAS 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 COMPLY WITH ARTICLE 517 OF THE 2008 NATIONAL ELECTRICAL CODE (e.g. WIRING, DEVICE PLACEMENT, ETC.).
25. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
26. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, 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.
27. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
28. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
29. ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
30. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
31. 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.

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NEW CEDAR CITY LIQUOR STORE
DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

ELECTRICAL SYMBOLS, NOTES, & LEGEND

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

REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. LEVORSEN
STATE OF UTAH
4-3-09

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PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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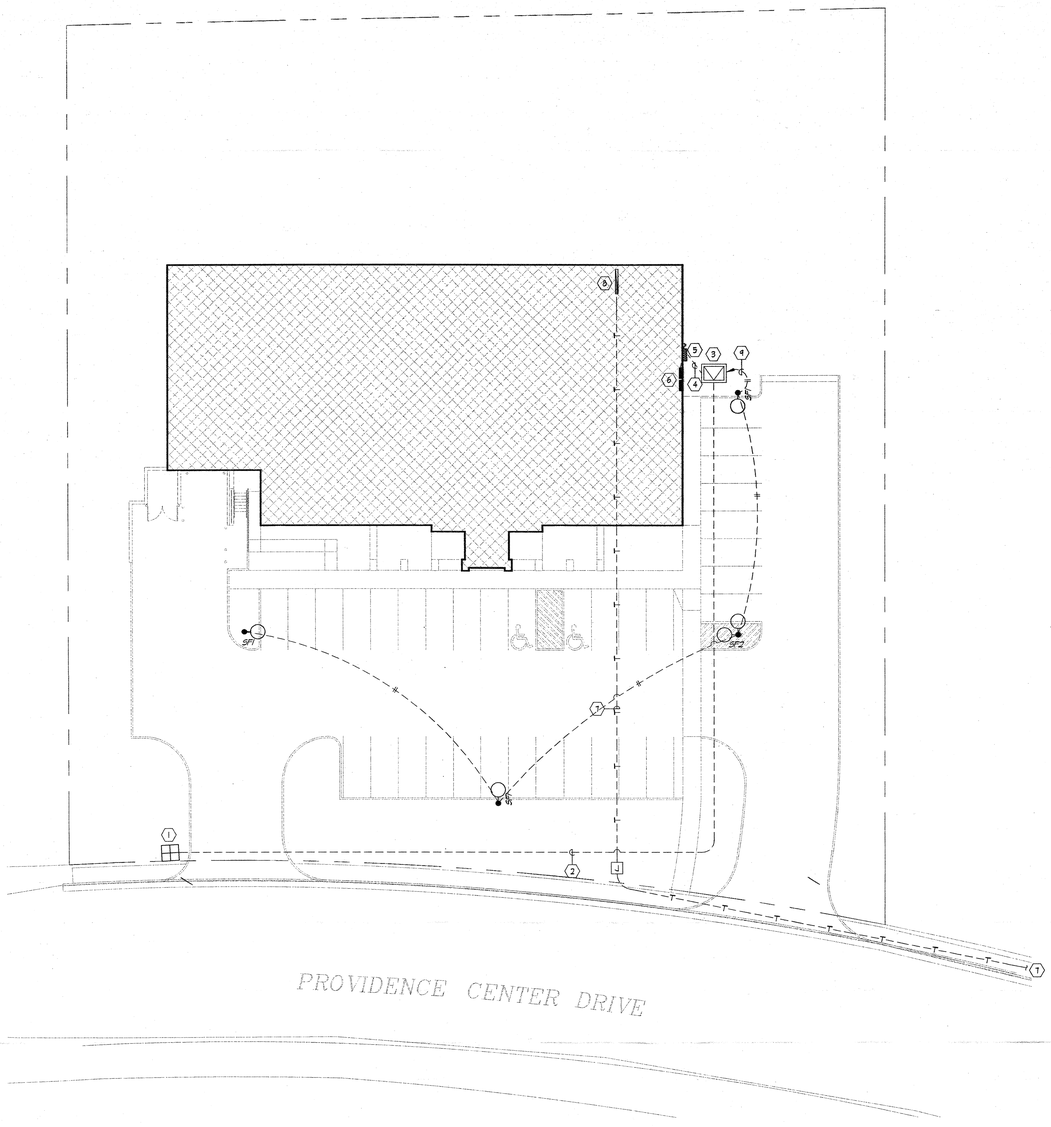

A E101 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"
0' 10' 25' 40' 70'
NORTH

GENERAL SITE PLAN NOTES:

1. ELECTRICAL CONTRACTOR TO REFER TO THE CIVIL ENGINEER'S DRAWINGS AND COORDINATE ELECTRICAL INSTALLATION WITH ALL UTILITIES.
2. ELECTRICAL CONTRACTOR TO INCLUDE A MINIMUM AMOUNT OF $20,000 IN HIS BID FOR POWER COMPANY UTILITY WORK. IF ACTUAL FEES ARE LESS THAN THIS AMOUNT, CONTRACTOR SHALL REIMBURSE THE DIFFERENCE TO THE OWNER BY CHANGE ORDER.
3. 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 (⑴):

1. POWER COMPANY GROUND SLEEVE. VERIFY THE EXACT LOCATION WITH THE POWER COMPANY DURING THE BIDDING PROCESS.
2. PRIMARY FEEDER FROM TRANSFORMER VAULT TO POWER COMPANY GROUND SLEEVE (SEE ONE LINE DIAGRAM).
3. NEW TRANSFORMER VAULT (SEE ONE LINE DIAGRAM).
4. MAIN SERVICE FEEDER (SEE ONE LINE DIAGRAM).
5. EUSERC RATED CT/MAIN BREAKER ENCLOSURE (SEE ONE LINE DIAGRAM).
6. PANELBOARDS 'P1' & 'P2'.
7. MAIN TELEPHONE COMPANY SERVICE CONDUIT (SEE RISER DIAGRAM). VERIFY EXACT SERVICE TERMINATION POINT WITH TELEPHONE COMPANY DURING THE BIDDING PROCESS. PROVIDE ALL CONDUIT AND TRENCHING. (SEE TELEPHONE RISER DIAGRAM).
8. MAIN TELEPHONE BOARD (SEE RISER).
9. TO P1-16,18, CIRCUIT VIA LIGHTING CONTROL PANEL 'LC'. SEE PANEL SCHEDULE FOR BRANCH FEEDER CONDUIT AND WIRE SIZE. SEE LIGHTING CONTROL PANEL SCHEDULE AND DETAIL FOR LIGHTING CONTROL.

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

SITE PLAN - ELECTRICAL

REGISTERED INDEPENDENT PROFESSIONAL ENGINEER No. 154857 DEAN F. EVERSEN STATE OF UTAH

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E 101

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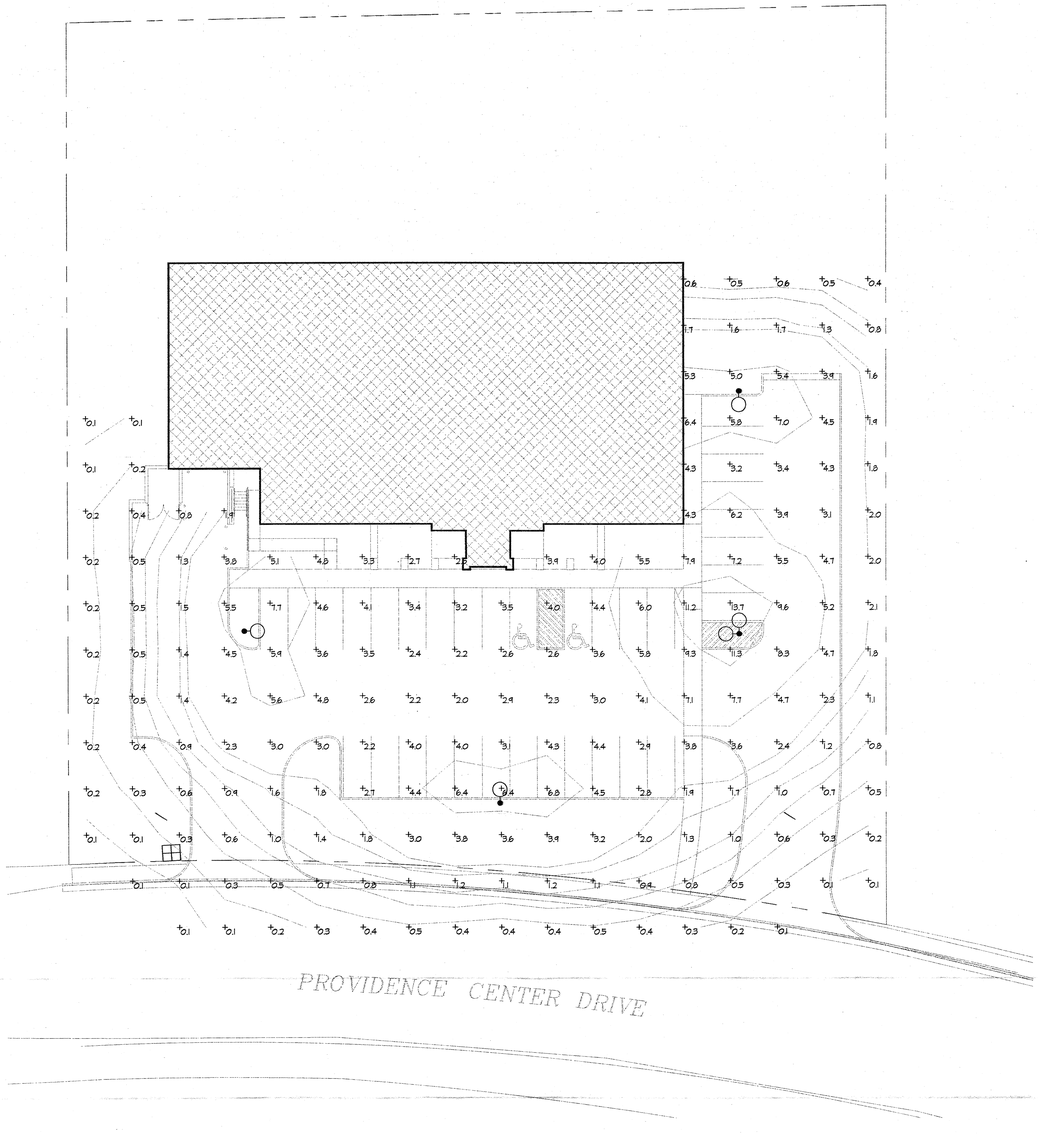

A E102 **SITE PLAN - LIGHTING CALCULATIONS**
SCALE: 1" = 20'-0"
0' 10' 25' 40' 70'
NORTH

NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

SITE PLAN - LIGHTING CALCULATIONS

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

REGISTERED PROFESSIONAL ENGINEER
No. 154957
DEAN P. LEVORSEN
STATE OF UTAH
4-3-09

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1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

E 102

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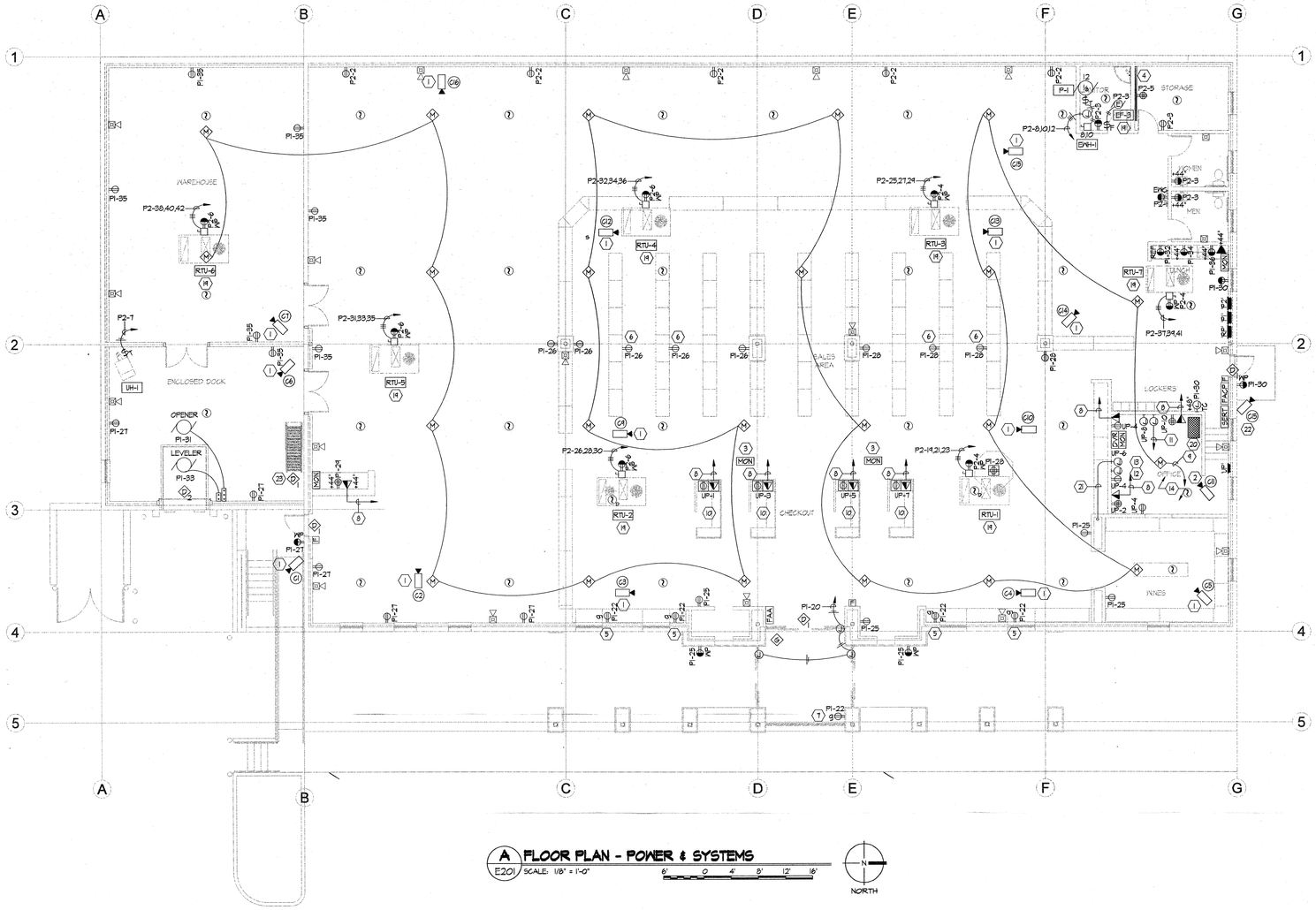

A FLOOR PLAN - POWER & SYSTEMS
E201 SCALE: 1/8" = 1'-0"

6' 0 4' 8' 12' 16'

NORTH

GENERAL NOTES:

1. PROVIDE AND INSTALL A ¾" CONDUIT WITH SECURITY SYSTEM WIRE FROM EACH SECURITY DEVICE TO THE SECURITY PANEL LOCATED IN THE OFFICE.

KEYED NOTES ((•)):

1. SECURITY CCTV CAMERA TO BE STEM MOUNTED ON A PEDESTAL (18" TO 24" AS REQUIRED) TO CLEAR LIGHTING FIXTURES. PROVIDE AND INSTALL A ¾" 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 SAFE. PROVIDE AND INSTALL A ¾" 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. DUPLEX CONVENIENCE OUTLET MOUNTED HORIZONTALLY IN BASE OF SHELVING.
7. OUTLET MOUNTED AT +84" FOR "OPEN" SIGN. CIRCUIT VIA LIGHTING CONTROL PANEL (SEE LIGHTING CONTROL DETAIL AND SCHEDULE).
8. (1)-1" CONDUIT WITH NYLON PULL STRING TO THE DATA RACK AND (1)-1"CONDUIT WITH NYLON PULL STRING TO THE TELEPHONE BOARD. SEE SHEET TELEPHONE/DATA RISER DIAGRAM.
9. ¾" CONDUIT WITH SECURITY SYSTEM WIRE TO SECURITY PANEL.
10. SEE POINT OF SALE UNDER COUNTER DETAIL.
11. DATA RACK. 2" CONDUIT WITH NYLON PULL STRING 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 PULL STRING, STUB CAP AND MARK FOR SPRINKLER CONTROLS.
17. EUSERC RATED CT/MAIN BREAKER CABINET (SEE ONE LINE DIAGRAM).
18. METER BASE (SEE ONE LINE DIAGRAM).
19. UNIT LOCATED ON ROOF.
20. UPS SYSTEM.
21. (2)-2" CONDUITS NORTH NYLON PULL STRING TO STRUCTURE FOR FUTURE VIDEO CABLES.
22. SECURITY CCTV CAMERA TO BE MOUNTED ON WALL AS REQUIRED IN A SECURITY ENCLOSURE. PROVIDE AND INSTALL A ¾" CONDUIT TO CCTV/SECURITY PANEL LOCATED IN THE OFFICE.
23. ROOF HATCH SECURITY DOOR CONTACT.

NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

FLOOR PLAN - POWER & SYSTEMS

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

REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. EVORSEN
STATE OF UTAH
4-30-09

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PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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A FLOOR PLAN - LIGHTING
E301 SCALE: 1/8" = 1'-0"

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 WATT-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 WATT-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 LEG(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.

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 EM 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 a THRU f (SEE LIGHTING CONTROL DETAIL).
9. UNIT LOCATED ON ROOF.

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, 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

FLOOR PLAN - LIGHTING

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH 4-3-09

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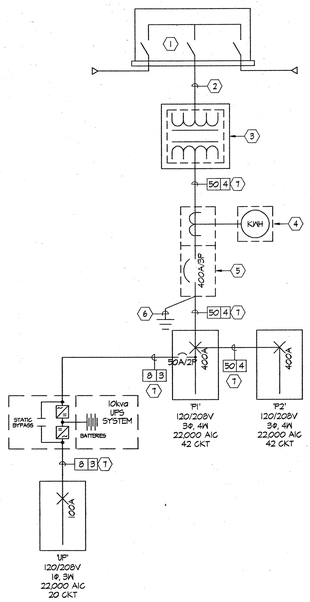
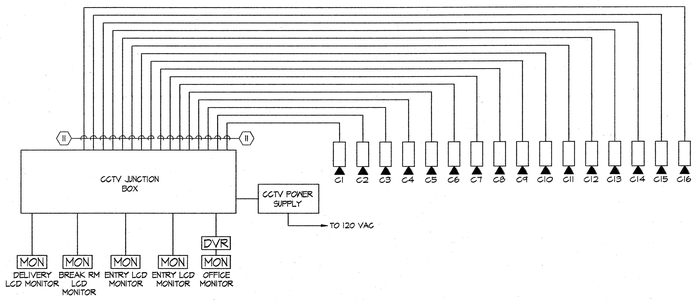


A ONE LINE DIAGRAM
E401



D CCTV RISER DIAGRAM
E401

CONDUIT & WIRE SCHEDULE

SYMBOL SIZE	QTY	CONDUIT	WIRE SIZE & TYPE	GROUND	AMPS	REMARKS
12	2	¾"	#12 THHN CU	#12 THHN CU	25	
	3	¾"				
	4	¾"				
10	3	¾"	#10 THHN CU	#10 THHN CU	30	
	4	¾"				
8	2	¾"	#8 THHN CU	#10 THHN CU	40	
	3	¾"				
	4	¾"				
6	2	¾"	#6 THHN CU	#8 THHN CU	55	
	3	¾"				
	4	¾"				
4	2	¾"	#4 THHN CU	#8 THHN CU	70	
	3	1"				
	4	1¼"				
3	2	1"	#3 THHN CU	#8 THHN CU	85	
	3	1"				
	4	1¼"				
2	2	1¼"	#2 THHN CU	#6 THHN CU	95	
	3	1¼"				
	4	1¼"				
1	2	1¼"	#1 THHN CU	#6 THHN CU	110	
	3	1½"				
	4	1½"				
1A	2	1½"	#1/0 THHN CU	#6 THHN CU	150	
	3	1½"				
	4	1½"				
2A	2	1½"	#2/0 THHN CU	#6 THHN CU	175	
	3	1½"				
	4	2"				
3A	2	1½"	#3/0 THHN CU	#6 THHN CU	200	
	3	2"				
	4	2"				
4A	2	2"	#4/0 THHN CU	#4 THHN CU	230	
	3	2"				
	4	2½"				
2S	2	2"	#250 KMCM THHN CU	#4 THHN CU	255	
	3	2"				
	4	2½"				
3S	2	2"	#300 KMCM THHN CU	#3 THHN CU	285	
	3	3"				
	4	3"				
3S	2	2"	#350 KMCM THHN CU	#3 THHN CU	310	
	3	3"				
	4	3"				
40	2	2½"	#400 KMCM THHN CU	#3 THHN CU	335	
	3	3"				
	4	3"				
50	2	3"	#500 KMCM THHN CU	#3 THHN CU	380	
	3	4"				
	4	4"				
60	2	3"	#600 KCM THHN CU	#3 THHN CU	420	
	3	4"				
	4	4"				

EXAMPLE:

3A 4 =(4)-#3/0 THHN/THWN + (1)#6 THHN/THWN GND, 2"CONDUIT

50 4 =(4)-#500kmcm THHN CU + (1)-#1/0 THHN CU GND, 4"CONDUIT

2 SETS, 2 SETS, PARALLEL FEEDERS

1/A GND

NOTES:
1. PARALLEL RUNS REQUIRE A LARGER GROUND WIRE PER CONDUIT - SEE NATIONAL ELECTRICAL CODE.
2. WHERE THHN CONDUCTORS SHALL BE RUN UNDERGROUND, PROVIDE THHN INSULATION IN LIEN OF THHN INSULATION ON ALL UNDERGROUND CONDUCTORS.

GENERAL NOTES:

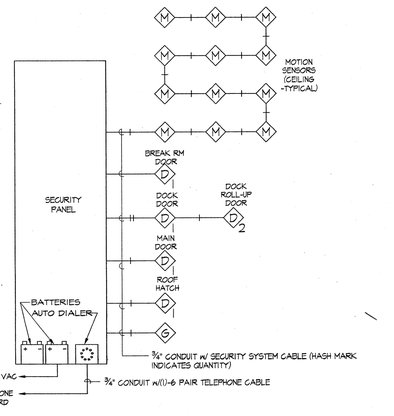
1. CONTRACTOR TO PROVIDE ALL TRENCHING AND BACKFILL. POWER COMPANY TO PROVIDE AND INSTALL PRIMARY CABLE. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. ALL SERVICE WORK SHALL CONFORM TO POWER COMPANY INSTALLATION STANDARDS.

KEYED NOTES (#):

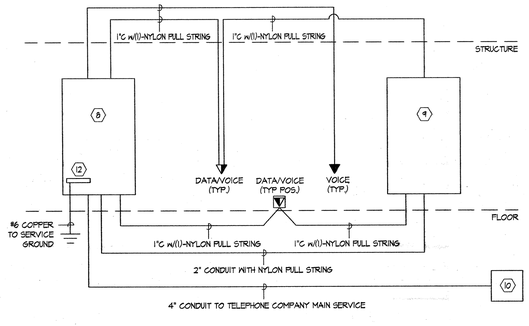
1. GROUND SLEEVE PROVIDED AND INSTALLED BY POWER COMPANY. FIELD VERIFY THE EXACT LOCATION DURING THE BIDDING PROCESS.
2. (1)-4" PVC CONDUIT WITH (3)-#2 15KV, 220 MIL PVC JACKETED, CONC. NEUTRAL PRIMARY CONDUCTORS INSIDE, SUPPLIED AND INSTALLED BY DIV 16 CONTRACTOR. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL PRIMARY LOAD BREAK ELBOWS AND MAKE ALL PRIMARY CONNECTIONS. ALL PRIMARY WORK SHALL CONFORM TO HURRICANE CITY SPECIFICATIONS. CONTACT HURRICANE CITY AT (435) 635-2811.
3. TRANSFORMER AND CONCRETE VAULT. 150 KVA 12470 to 208/120, 3 PHASE, PAD MOUNT TRANSFORMER. LOCATE PER SITE PLAN. TRANSFORMER AND VAULT TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND MEET ALL HURRICANE CITY SPECIFICATIONS AND INSTALLATION STANDARDS.
4. PROVIDE AND INSTALL EUSERC RATED METER BASE AS PER HURRICANE CITY POWER COMPANY SPECIFICATIONS.
5. EUSERC RATED MAIN BREAKER/CT ENCLOSURE AS PER HURRICANE CITY POWER COMPANY STANDARDS. MOUNTED ON BUILDING AT A LOCATION DESIGNATED BY THE ARCHITECT.
6. #2/0 COPPER TO GROUND (SEE SERVICE GROUNDING DETAIL).
7. GROUND REQUIRED REGARDLESS OF CONDUIT TYPE.
8. TELEPHONE TERMINAL BOARD. PROVIDE 96"W x 48"H x ¾"TH" CDX PLYWOOD PAINTED WITH THREE COATS OF FIRE RETARDANT PAINT.
9. DATA TERMINAL JUNCTION BOX. PROVIDE AND INSTALL A 12"W12"x6" JUNCTION BOX AS REQUIRED. JUNCTION BOX SHALL MEET THE STATE OF UTAH LIQUOR CONTROL COMMISSION STANDARDS AND SPECIFICATIONS.
10. 12"x24"x24" COMMUNICATIONS JUNCTION BOX AS PER UTAH STATE DEPARTMENT OF ITS AT THE PROPERTY LINE.
11. PROVIDE (1)-2" CONDUIT PER EIGHT CCTV VIDEO CABLES. PROVIDE AND INSTALL (2)- 2" CONDUITS TOTAL.
12. COPPER TERMINAL GROUND STRIP.

GENERAL FIRE ALARM NOTES:

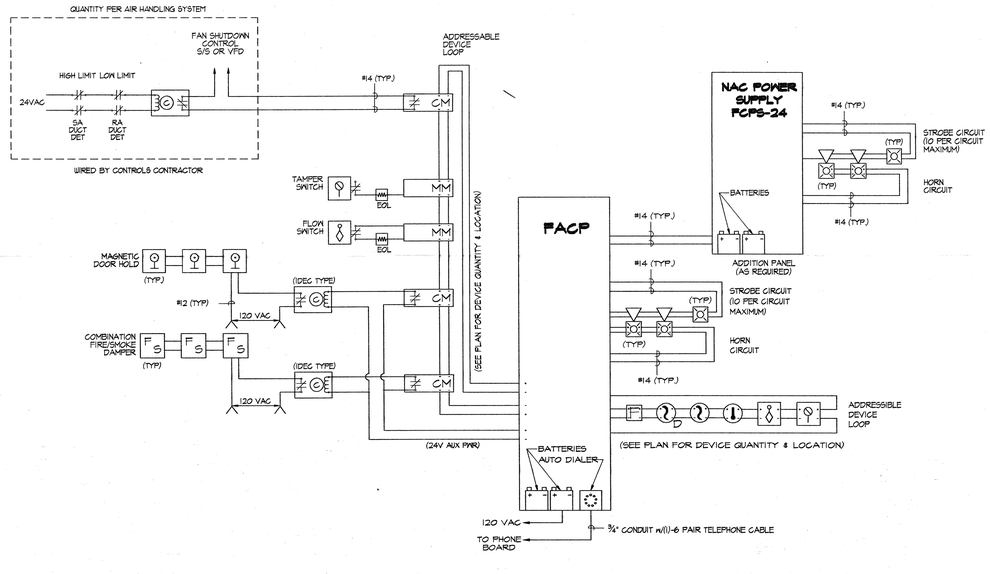
1. COORDINATE FIRE ALARM DEVICES WITH LIGHTING FIXTURES, SPEAKERS, GRILLS, ETC.
2. DO NOT INSTALL SMOKE DETECTORS WITHIN 3'-0" OF ANY MECHANICAL GRILL.
3. FIRE ALARM CONTROL PANEL AND ANNUNCIATOR ENCLOSURES SHALL CONTAIN A FLANGE AROUND PERIMETER TO FACILITATE AND IMPROVE THE AESTHETIC TRANSITION FROM ENCLOSURE TO SHEETROCK.
4. VERIFY ANY POTENTIAL ADDITIONAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
5. DUCT SMOKE DETECTORS SHOWN FOR REFERENCE.COORDINATE DUCT SMOKE DETECTOR LOCATIONS WITH MECHANICAL PLANS.
6. PLANS ARE BASED UPON 98 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
7. PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS & SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
8. PLANS ARE BASED UPON 10 TOTAL STROBE LIGHTS (WHATEVER COMBINATION HORN.STROBE OR INDIVIDUAL STROBES) PER CIRCUIT. PROVIDE FIRE ALARM HORN ON EXTERIOR OF BUILDING. SELECT STROBES BASED UPON ROOM SIZE AND MANUFACTURER.
9. FLOW & TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITORING DEVICES REQUIRED BY ACTUAL REQUIREMENTS.
10. HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE LOCKED HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN THE SPRINKLER HEAD.
11. ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
12. HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS (IF REQUIRED) BASED ON 70 MILLIAMPS.
13. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 60 HOURS PLUS 25% SPARE CAPACITY.
14. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
15. RUN SPARE LOOPS IN SAME CONDUIT.
16. PROVIDE DUCT DETECTOR AT EACH FLOOR PRIOR TO CONNECTION TO A COMMON RETURN & PRIOR TO RE-CIRCULATING OR REFRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY & SERVING MORE THAN ONE STORY.
17. PROVIDE MANUAL PULL STATIONS IN BOILER ROOM.
18. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS & PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.
19. PROVIDE AND INSTALL SMOKE DETECTOR AND/OR DUCT SMOKE DETECTOR WITHIN 5'-0" OF A SMOKE/FIRE DAMPER AS PER REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.



B SECURITY SYSTEM RISER DIAGRAM
E401



C TELEPHONE/DATA RISER DIAGRAM
E401



E FIRE ALARM RISER DIAGRAM
E401

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

NEW CEDAR CITY LIQUOR STORE
DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

ELECTRICAL RISER DIAGRAMS

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

LICENSED PROFESSIONAL ENGINEER
No. 154867
DEAN F. LEVORSEN
STATE OF UTAH
4-30-09

REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST. DOC.
FILE NAME: E401 - 08224.01
SCALE: AS SHOWN
DRAWN BY: KJH
CHECKED BY: RKR
DATE: JANUARY 2009

E
401

By: khoskes Apr 3, 2009 - 12:53 PM, Date Plotted: Apr 3, 2009 - 1:01 PM X:\Projects\2008\08224.00.01 - Liquor Store - Cedar City\E401 - 08224.01.dwg
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PANEL SCHEDULE

PANEL: P1 — BUS AMPS: 400
VOLTAGE: 208 / 120 PHASE: 3 — MAIN OVERCURRENT DEVICE: LUGS
MOUNTING: SURFACE WIRE: 4 — MAIN OVERCURRENT AMPS: N/A
ENCLOSURE: NEMA 1 — MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)
REMARKS: PROVIDE WITH SUB-FEED LUGS

USE
E = Equipment Load — M = Motor Load
L = Lighting Load — K = Kitchen Equipment
R = Receptacle Load

BREAKER No.	BREAKER AMPS	BREAKER POLE	KEYED NOTE	CIRCUIT NAME	FEEDER C	FEEDER WIRE	FEEDER GRD	CKT. LOAD USE	CKT. LOAD WATTS	LOAD/PHASE (VA) φA	φB	φC	CKT. LOAD WATTS	CKT. LOAD USE	FEEDER GRD	FEEDER WIRE	FEEDER C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	BREAKER AMPS	BREAKER No.
1	20	1		RETAIL LTG	3/4"	#10	#10	L	1,056	1,959			847	L	#10	#10	3/4"	RETAIL LTG		1	20	2
3	20	1		RETAIL LTG	3/4"	#10	#10	L	1,056		1,953		847	L	#10	#10	3/4"	RETAIL LTG		1	20	4
5	20	1		RETAIL LTG	3/4"	#10	#10	L	1,056			2,005	449	L	#10	#10	3/4"	RETAIL LTG		1	20	6
7	20	1		RETAIL LTG	3/4"	#10	#10	L	1,848	3,432			1,584	L	#10	#10	3/4"	STORAGE LTG		1	20	8
9	20	1		RETAIL LTG	3/4"	#10	#10	L	1,848		3,432		1,584	L	#10	#10	3/4"	STORAGE LTG		1	20	10
11	20	1		RETAIL LTG	3/4"	#10	#10	L	1,210			2,596	1,386	L	#10	#10	3/4"	STORAGE LTG		1	20	12
13	20	1		STORAGE LTG	3/4"	#10	#10	L	1,584	2,434			850	L	#10	#10	3/4"	EXTERIOR LTG		1	20	14
15	20	1		STORAGE LTG	3/4"	#10	#10	L	1,584		2,584		1,000	L	#10	#10	1"	PARKING LTG		2	20	16
17	20	1		STORAGE LTG	3/4"	#10	#10	L	1,452			2,452	1,000	L	--	#10	--	----------		--	--	18
19	20	1		RESTRM/STORAGE LTG	3/4"	#12	#12	L	946	846			500	L	#12	#12	3/4"	AUTOMATIC DOOR		1	20	20
21	20	1		STORAGE LTG	3/4"	#10	#10	L	1,584		1,784		200	L	#12	#12	3/4"	OPEN/CLOSE SIGN		1	20	22
23	20	1		DOCK LTG	3/4"	#10	#10	L	792			792						SPARE		1	20	24
25	20	1		RETAILS RCPT	3/4"	#12	#12	R	1,080	2,160			1,080	R	#12	#12	3/4"	RETAIL RCPT		1	20	26
27	20	1		STORAGE/DOCK RCPT	3/4"	#10	#10	R	1,080		2,160		1,080	R	#12	#12	3/4"	RETAIL RCPT		1	20	28
29	20	1		DOCK CMPTR	3/4"	#10	#10	M	400			400	500	E	#12	#12	3/4"	TIME CLCK/BREAK RM RCPT		1	20	30
31	20	1		DOOR OPENER	3/4"	#10	#10	M	1,200	2,400			1,200	E	#12	#12	3/4"	REFRIGERATOR		1	20	32
33	20	1		DOCK LEVELER	3/4"	#10	#10	M	1,200		2,400		1,200	E	#12	#12	3/4"	MICROWAVE		1	20	34
35	20	1		STORAGE RCPT	3/4"	#10	#10	R	1,080			1,260	180	R	#12	#12	3/4"	BREAK RM RCPT		1	20	36
37	20	1		SPARE		#N/A	#N/A											SPARE		1	20	38
39	20	1		SPARE		#N/A	#N/A											SPARE		1	20	40
41	20	1		SPARE		#N/A	#N/A											SPARE		1	20	42

	φA	φB	φC	DEMAND
LIGHTING LOAD (VA)	8,715	9,753	7,845	26,313
LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)				6,515
RECEPTACLE LOAD PER NEC 220.44 (VA)	2,160	2,160	1,860	5,980
EQUIPMENT LOAD (VA)	2,400	2,400	500	5,300
25% LARGEST MOTOR (VA)				300
KITCHEN EQUIPMENT LOAD (VA)	0	0	0	0
0 UNITS @ 100%				
TOTAL LOAD (VA)	13,275	14,313	10,205	44,471
TOTAL LOAD (AMPS):	111	119	85	123

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) BREAKER.
C. PROVIDE GFCI BREAKER.

PANEL SCHEDULE

PANEL: P2 — BUS AMPS: 400
VOLTAGE: 208 / 120 PHASE: 3 — MAIN OVERCURRENT DEVICE: LUGS
MOUNTING: SURFACE WIRE: 4 — MAIN OVERCURRENT AMPS: N/A
ENCLOSURE: NEMA 1 — MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)
REMARKS:

USE
E = Equipment Load — M = Motor Load
L = Lighting Load — K = Kitchen Equipment
R = Receptacle Load

BREAKER No.	BREAKER AMPS	BREAKER POLE	KEYED NOTE	CIRCUIT NAME	FEEDER C	FEEDER WIRE	FEEDER GRD	CKT. LOAD USE	CKT. LOAD WATTS	LOAD/PHASE (VA) φA	φB	φC	CKT. LOAD WATTS	CKT. LOAD USE	FEEDER GRD	FEEDER WIRE	FEEDER C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	BREAKER AMPS	BREAKER No.
1	20	1		ENG	3/4"	#12	#12	E	500	1,400			900	R	#10	#10	3/4"	STORAGE RCPT		1	20	2
3	20	1		RESTRM/STORAGE RCPT	3/4"	#12	#12	R	720		1,260		540	R	#10	#10	3/4"	ROOFTOP RCPT		1	20	4
5	20	1		TELCO BOARD RCPT	3/4"	#12	#12	R	360			1,080	720	R	#10	#10	3/4"	ROOFTOP RCPT		1	20	6
7	20	1		UNIT HEATER UH-1	3/4"	#10	#10	M	360	1,442			1,082	E	#12	#12	3/4"	ELEC WTR HTR EWH-1		2	20	8
9	20	1		SPARE							1,082		1,082	E	--	#12	--	----------		--	--	10
11	20	1		SPARE								456	456	M	#12	#12	3/4"	PUMP P-1		1	20	12
13	20	1		SPARE														SPARE		1	20	14
15	20	1		SPARE														SPARE		1	20	16
17	20	1		SPARE														SPARE		1	20	18
19	60	3		ROOFTOP UNIT RTU-1	1"	#6	#10	E	5,416	5,416								SPARE		1	20	20
21	---	---		----------	---	#6	---	E	5,416		5,416							SPARE		1	20	22
23	---	---		----------	---	#6	---	E	5,416			5,416						SPARE		1	20	24
25	40	3		ROOFTOP UNIT RTU-3	3/4"	#8	#10	E	3,782	4,148			5,416	E	#10	#6	1"	ROOFTOP UNIT RTU-2		3	60	26
27	---	---		----------	---	#8	---	E	3,782		4,148		5,416	E	---	#6	---	----------		---	---	28
29	---	---		----------	---	#8	---	E	3,782			4,148	5,416	E	---	#6	---	----------		---	---	30
31	40	3		ROOFTOP UNIT RTU-5	3/4"	#8	#10	E	3,782	1,564			3,782	E	#10	#8	3/4"	ROOFTOP UNIT RTU-4		3	40	32
33	---	---		----------	---	#8	---	E	3,782		1,564		3,782	E	---	#8	---	----------		---	---	34
35	---	---		----------	---	#8	---	E	3,782			1,564	3,782	E	---	#8	---	----------		---	---	36
37	40	3		ROOFTOP UNIT RTU-7	3/4"	#8	#10	E	3,782	1,564			3,782	E	#10	#8	3/4"	ROOFTOP UNIT RTU-6		3	40	38
39	---	---		----------	---	#8	---	E	3,782		1,564		3,782	E	---	#8	---	----------		---	---	40
41	---	---		----------	---	#8	---	E	3,782			1,564	3,782	E	---	#8	---	----------		---	---	42

	φA	φB	φC	DEMAND
LIGHTING LOAD (VA)	0	0	0	0
LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)				0
RECEPTACLE LOAD PER NEC 220.44 (VA)	900	1,260	1,080	3,240
EQUIPMENT LOAD (VA)	31,684	30,824	30,198	92,706
25% LARGEST MOTOR (VA)				114
KITCHEN EQUIPMENT LOAD (VA)	0	0	0	0
0 UNITS @ 100%				
TOTAL LOAD (VA)	32,584	32,084	31,278	96,060
TOTAL LOAD (AMPS):	272	267	261	267

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) BREAKER.
C. PROVIDE GFCI BREAKER.

PANEL SCHEDULE

PANEL: LP — BUS AMPS: 100
VOLTAGE: 208 / 120 PHASE: 1 — MAIN OVERCURRENT DEVICE: LUGS
MOUNTING: FLUSH WIRE: 3 — MAIN OVERCURRENT AMPS: N/A
ENCLOSURE: NEMA 1 — MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)
REMARKS: LOAD CENTER

USE
E = Equipment Load — M = Motor Load
L = Lighting Load — K = Kitchen Equipment
R = Receptacle Load

BREAKER No.	BREAKER AMPS	BREAKER POLE	KEYED NOTE		FEEDER C	FEEDER WIRE	FEEDER GRD	CKT. LOAD USE	CKT. LOAD WATTS	LOAD/PHASE (VA) φA	φB	CKT. LOAD WATTS	CKT. LOAD USE	FEEDER GRD	FEEDER WIRE	FEEDER C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	BREAKER AMPS	BREAKER No.
1	20	1		POS RCPT	3/4"	#12	#12	R	500	860		360	R	#12	#12	MC	OFFICE RCPT		1	20	2
3	20	1		POS RCPT	3/4"	#12	#12	R	500		1,040	540	R	#12	#12	MC	OFFICE RCPT		1	20	4
5	20	1		POS RCPT	3/4"	#12	#12	R	500	1,000		500	E	#12	#12	MC	CCTV POWER		1	20	6
7	20	1		POS RCPT	3/4"	#12	#12	R	500		1,000	500	E	#12	#12	MC	DATA RACK		1	20	8
9	20	1		SPARE						360		360	R	#12	#12	MC	OFFICE RCPT		1	20	10
11	20	1		SPARE													SPACE				12
13				SPACE													SPACE				14
15				SPACE													SPACE				16
17				SPACE													SPACE				18
19				SPACE													SPACE				20

	φA	φB	DEMAND
LIGHTING LOAD (VA)	0	0	0
LIGHTING CONTINUOUS LOAD (VA)			0
RECEPTACLE LOAD PER NEC 220.13(VA)	1,720	1,540	3,260
EQUIPMENT LOAD (VA)	500	500	1,000
25% LARGEST MOTOR			0
KITCHEN EQUIPMENT LOAD (VA)	0	0	0
0 UNITS @ 100% (PER NEC TABLE 220.56)			
TOTAL LOAD (VA)	2,220	2,040	4,260
TOTAL LOAD (AMPS):	19	17	20

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) BREAKER.
C. PROVIDE GFCI BREAKER.

LIGHT FIXTURE SCHEDULE

FIXTURE NUMBER	FIXTURE MANUFACTURER	FIXTURE CATALOG #	DESCRIPTION	LAMPS TYPE	LAMPS QTY.	FIXTURE VOLTS	FIXTURE WATTS	FIXTURE MOUNTING	REMARKS
F1	AXIS	SOSSN-32-T8-2-SCBA-E-36-C	32 FOOT PENDANT DIRECT	F32T8/SP35 ECO	16	120	528	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F1E	AXIS	SOSSN-32-T8-2-SCBA-E-36-BIL00-C	32 FOOT PENDANT DIRECT W/EM	F32T8/SP35 ECO	16	120	528	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS PROVIDE WITH ELECTRONIC EM BALLAST
F2	AXIS	SOSSN-24-T8-2-SCBA-E-36-C	24 FOOT PENDANT DIRECT	F32T8/SP35 ECO	12	120	396	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F2E	AXIS	SOSSN-24-T8-2-SCBA-E-36-BIL00-C	24 FOOT PENDANT DIRECT W/EM	F32T8/SP35 ECO	12	120	396	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS PROVIDE WITH ELECTRONIC EM BALLAST
F3	AXIS	SOSSN-16-T8-2-SCBA-E-36-C	16 FOOT PENDANT DIRECT	F32T8/SP35 ECO	8	120	264	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F4	AXIS	SOSSN-12-T8-2-SCBA-E-36-C	12 FOOT PENDANT DIRECT	F32T8/SP35 ECO	6	120	198	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F4E	AXIS	SOSSN-12-T8-2-SCBA-E-36-BIL00-C	12 FOOT PENDANT DIRECT W/EM	F32T8/SP35 ECO	6	120	198	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS PROVIDE WITH ELECTRONIC EM BALLAST
F5	AXIS	SOSSN-8-T8-2-SCBA-E-36-C	8 FOOT PENDANT DIRECT	F32T8/SP35 ECO	4	120	132	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F6	SHAPER	461-CFL/1/26-SAL	PENDANT MOUNTED FLOURESCENT	26DTT	1	120	27	PENDANT	PROVIDE WITH ELECTRONIC BALLAST
F7	AMETRIX	VP-SI-P-1-ED70-W-Y104	70 WATT METAL HALIDE UPLIGHT	70W MH	1	120	80	SURFACE WALL	PROVIDE WITH ELECTRONIC BALLAST
F8	PORTFOLIO OMEGA	C6042-E-6001-LI 5632PLTU-T6CS	FLUOR. DOWNLIGHT W/ALZAK TRIM 32 TRT LAMP	32 TRT	8	120	34	RECESSED	PROVIDE WITH ELECTRONIC BALLAST
F9	INVUE	ENV-42-CF-EB-35-BZ-GFG	WALL SCONCE	42 TRT	1	120	45	SURFACE WALL	COLOR TO BE SELECTED BY ARCHITECT
F10	DAYBRITE LUMARK	WLDIOOM-LP M46P-IOOH-MT-LL	100 WATT METAL HALIDE WALL PACK	100W MH	1	120	118	SURFACE WALL	
F11	METALUX DAYBRITE	8TIA-232-EBBI TIA232-I/4EB	46" INDUSTRIAL FLUORESCENT (TANDEM)	F32T8/SP35 ECO	8	120	132	SURFACE/CHAIN	PROVIDE WITH ELECTRONIC BALLAST
F12	METALUX DAYBRITE	W6-232A-EBBI CAN232-I/2EB	1X4 SURFACE FLUORESCENT (2 LAMP)	F32T8/SP35 ECO	2	120	66	SURFACE CEILING	PROVIDE WITH ELECTRONIC BALLAST
F13	DAYBRITE METALUX	CD 232N-2/1-EB BE-232-EBBI	48" WALL MTD. FLUORESCENT WITH 2-LAMP	F32T8/SP35 ECO	2	120	66	SURFACE WALL	PROVIDE WITH ELECTRONIC BALLAST
F14	DAYBRITE LUMARK	WLDIOOM-LP M46P-IOOH-MT-LL	100 WATT METAL HALIDE WALL PACK	100W MH	1	120	118	SURFACE WALL	
EM	BODINE IOTA	B50 I-320	EMERGENCY BALLAST ((2)-4 FOOT T-8 LAMP)	----	----	120	----	----	EMERGENCY BALLAST ((1)-4 FOOT T8 LAMP, 1100 LUMENS MIN. VERIFY COMPATIBILITY BEFORE ORDERING
E6	BODINE IOTA	B4CFI ICE-420-EM-1	EMERGENCY BALLAST ((1)-39 WATT COMPACT FLUORESCENT, COLD WEATHER)	----	----	120	----	----	EMERGENCY BALLAST COMPACT FLUOR., COLD WEATHER VERIFY COMPATIBILITY BEFORE ORDERING
EM1	SURE-LITES McPHILBEN	CC-6-WH CT6	2-HEAD EM WALL PACK (SURFACE)	INCLUDED	2	120	5.4	SURFACE WALL	
X1	ISOLITE McPHILBEN	LPDGEMDS-WHWHG ER35L-1-WB	POWERED SINGLE FACE EXIT W/ "EM" BATTERY PACK	INCLUDED	2	120	11.2	UNIVERSAL	NICKEL/CADMIUM BATTERY SINGLE FACE EXIT
G2	ISOLITE McPHILBEN	LPDGEMDS-WHWHG ER35L-2-WB	POWERED DOUBLE FACE EXITW "EM" BATTERY PACK	INCLUDED	2	120	11.2	SURFACE	NICKEL/CADMIUM BATTERY DOUBLE FACE EXIT

NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE A 'QUICK DISCONNECT HARNESS' FOR EACH FLUORESCENT LIGHTING FIXTURE TO SERVE AS A MEANS OF DISCONNECT TO ALLOW THE FIXTURE BALLAST TO BE SERVICED IN PLACE AS PER THE NATIONAL ELECTRICAL CODE 2008, ARTICLE 410.130 (G).

SITE LIGHTING FIXTURE SCHEDULE

FIXT #	FIXTURE MANUFACTURER	FIXTURE CATALOG #	FIXTURE VOLTS	FIXTURE #/POLE	FIXTURE WATTS	FIXTURE MOUNTING	LAMPS TYPE	LAMPS QTY/FIXT.	POLE MANUFACTURER	POLE HEIGHT	POLE CATALOG #	REMARKS
SF1	INVUE	ICM-400-MH-35-BZ-PRGPR	208	1	465	POLE	400W MH	1	INVUE	25'-0"	SRT-25-5-BZ-K-1-S-H	
SF2	INVUE	ICM-400-MH-35-BZ-PRGPR	208	2	930	POLE	400W MH	1	INVUE	25'-0"	SRT-25-5-BZ-K-1-S-H	

EQUIPMENT SCHEDULE

UNIT #	DESCRIPTION	ELECTRICAL LOAD	VOLTS	PHASE	AMPS	REFERENCE NOTES DISCONNECT	STARTER SIZE	ENCLOSURE	REMARKS
RTU-1	ROOFTOP UNIT	16248 VA	208	3	45.1	1A	--	1T	
RTU-2	ROOFTOP UNIT	16248 VA	208	3	45.1	1A	--	1T	
RTU-3	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	--	1T	
RTU-4	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	--	1T	
RTU-5	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	--	1T	
RTU-6	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	--	1T	
RTU-7	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	--	1T	
EF-1	EXHAUST FAN	1/6 HP	120	1	4.4	11A	--	--	
EF-2	EXHAUST FAN	1/6 HP	120	1	4.4	11A	--	--	
EF-3	EXHAUST FAN	1/6 HP	120	1	4.4	11A	--	--	
UH-1	UNIT HEATER	1/12 HP	120	1	3.0	4A	--	1B	
P-1	RECIRC. PUMP	1/8 HP	120	1	3.8	4A	--	1B	
EWH-1	ELECTRIC WATER HEATER	2163 VA	208	1	10.4	1A	30	1B	

NOTES:
1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE SPEED DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET ETC.
13. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE
14. MAXIMUM CIRCUIT AMPS (MCA)
15. FULL LOAD CURRENT
16. PROVIDE WITH NEMA 1 ENCLOSURE
17. PROVIDE WITH NEMA 3R ENCLOSURE

A. FURNISHED, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION, FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
C. FURNISHED UNDER ANOTHER DIVISION, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
D. FURNISHED, INSTALLED AND FINAL CONNECTION UNDER ANOTHER DIVISION.

OVERCURRENT PROTECTION DEVICES:
CB = THERMAL MAGNETIC CIRCUIT BREAKER
FN = FUSE, NON-INDICITVE LOAD
FI = FUSE, INDUCTIVE LOAD
MO = MAGNETIC ONLY CIRCUIT BREAKER
NA = NOT APPLICABLE

GENERAL NOTES:
1. VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH IN.
2. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.
3. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHN.

LIGHTING CONTROL PANEL

Name: RP
VOLTS: 120/208 V 3Φ, 4-WIRE
LOCATION: BREAK ROOM
MOUNTING: SURFACE

RELAY #	RELAY AMP	RELAY POLE	SUPPLY	AREA SERVED	LV SWITCH*	AUTOMATION SCHEDULE A	B	C	D	E
1	20	1	P1-1	RETAIL LTG	a		X			
2	20	1	P1-3	RETAIL LTG	b		X			
3	20	1	P1-5	RETAIL LTG	a		X			
4	20	1	P1-2	RETAIL LTG	b		X			
5	20	1	P1-4	RETAIL LTG	a		X			
6	20	1	P1-6	RETAIL LTG	b		X			
7	20	1	P1-7	RETAIL LTG	a		X			
8	20	1	P1-8	RETAIL LTG	b		X			
9	20	1	P1-11	RETAIL LTG	a		X			
10	20	1	P1-11	RETAIL DOWNLIGHTS	c		X			
11	20	1	P1-11	CHECKPOUT LTG	d		X			
12	20	1	P1-11	WINES LTG	e		X			
13	20	1	P1-14	ENTRY LIGHTING	f		X			
14	20	1	P1-8	STORAGE LTG	z		X			
15	20	1	P1-10	STORAGE LTG	z		X			
16	20	1	P1-12	STORAGE LTG	z		X			
17	20	1	P1-13	STORAGE LTG	z		X			
18	20	1	P1-15	STORAGE LTG	z		X			
19	20	1	P1-17	STORAGE LTG	z		X			
20	20	1	P1-14	EXTERIOR LTG		X				
21	20	2	P1-16,18	PARKING LTG		X				
22	--	--	----------	----------		X				
23	20	1	P1-22	SIGN RCPT	g		X			
24				SPACE						

Automation Schedules: (A) Auto ON / Auto OFF
(B) Manual ON / Auto OFF
(C) Dusk - Dawn
(D) Dusk - Auto OFF
(E) Daylight Sensor

* SEE PLAN FOR LOCATION OF LOW VOLTAGE SWITCH

NOTE: ELECTRICAL CONTRACTOR TO PROVIDE SPACE IN THIS PANEL FOR FUTURE EXPANSION

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By: khoacks Apr 3, 2009 — 12:55 PM, Date Plotted: Apr 3, 2009 — 1:00 PM X:\Projects\2008\08224.00.01 - Liquor Store - Cedar City\E501 - 08224.01.dwg

NEW CEDAR CITY LIQUOR STORE
DEPT. OF ALCOHOLIC BEVERAGE CONTROL
CEDAR CITY, UTAH

ELECTRICAL SCHEDULES

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

REGISTERED PROFESSIONAL ENGINEER
No. 154857
DEAN P. LEGGREEN
STATE OF UTAH
4-3-09

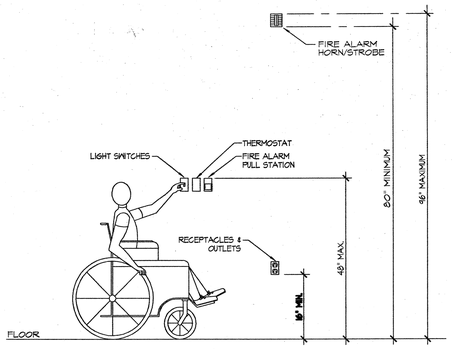
REVISION # DATE:

DFCM PROJECT NO.:
08227030
CONST. DOC.
FILE NAME: E501 - 082701
SCALE: AS SHOWN
DRAWN BY: KJH
CHECKED BY: RKR
DATE: JANUARY 2009

E 501

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

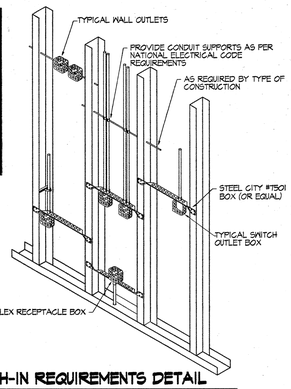
By: khancke Apr 3, 2009 – 12:57 PM, Date Plotted: Apr 3, 2009 – 1:00 PM X:\Projects\2008\08224.00.01 – Liquor Store – Cedar City\E601 – 08224.01.dwg



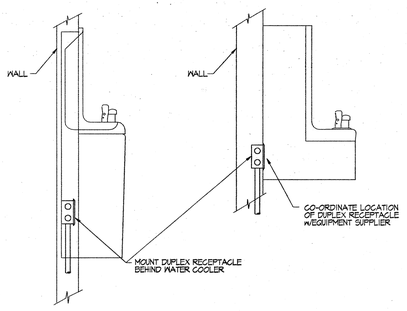
A E601 MOUNTING HEIGHTS DETAIL

NOTES:

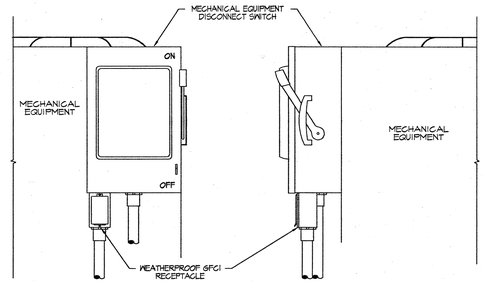
1. TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPERATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.



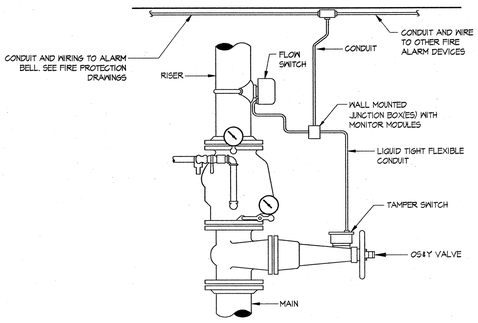
B E601 TYPICAL ROUGH-IN REQUIREMENTS DETAIL



C E601 ELECTRIC WATER COOLER DETAIL



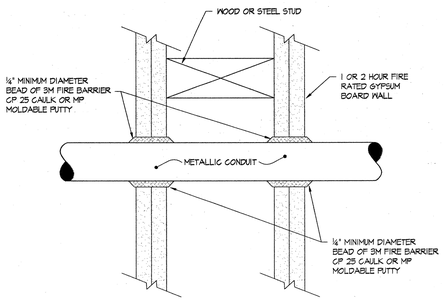
D E601 WEATHER PROOF RECEPTACLE MOUNTING DETAIL



E E601 FIRE SPRINKLER RISER CONNECTION

NOTE:

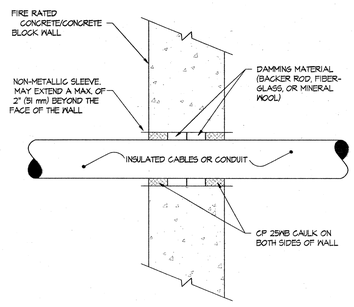
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



F E601 FIRE STOP THRU GYPSUM BOARD WALL

NOTE:

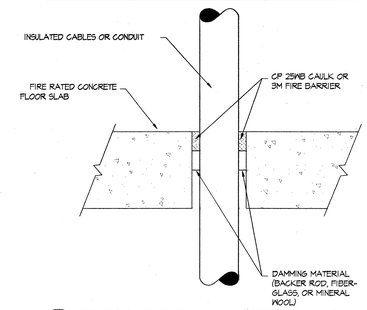
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



G E601 FIRESTOP THRU CONCRETE/MASONRY WALL

NOTE:

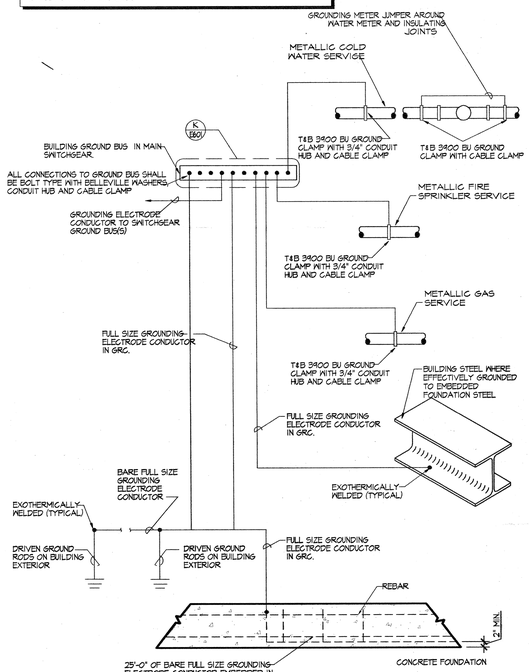
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



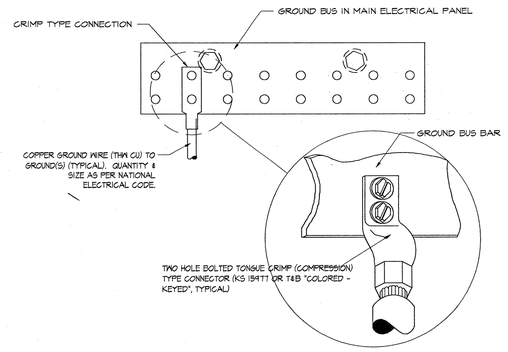
H E601 FIRESTOP THRU CONCRETE FLOOR

NOTE:

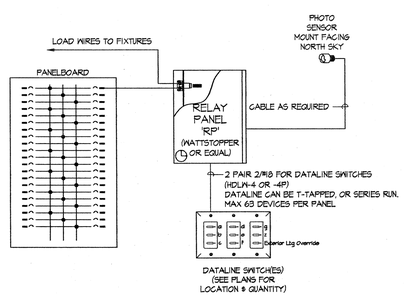
WHEN AVAILABLE CONTRACTOR SHALL PROVIDE ALL GROUNDING MEANS INDICATED. CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLTION AND MATERIALS



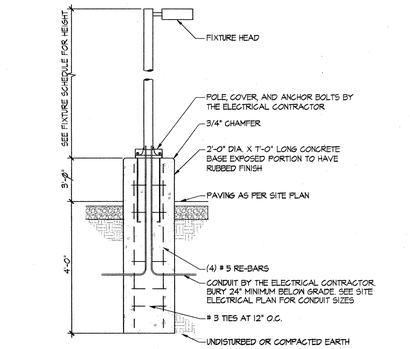
J E601 SERVICE GROUNDING DETAIL



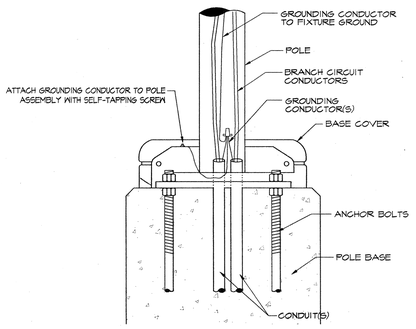
K E601 SERVICE BUS GROUNDING DETAIL



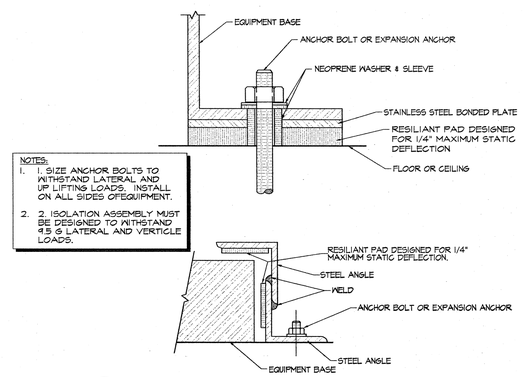
N E601 SERVICE BUS GROUNDING DETAIL



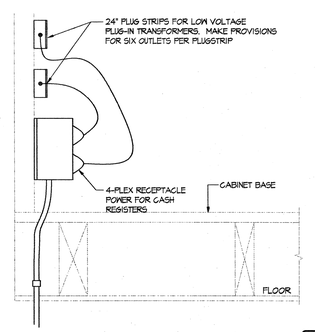
L E601 POLE BASE DETAIL



M E601 ENLARGED POLE BASE DETAIL



P E6.2 SEISMIC RESTRAINT DETAIL



Q E6.2 POINT OF SALE UNDER COUNTER DETAIL

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

NEW CEDAR CITY LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
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ELECTRICAL 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

REGISTERED PROFESSIONAL ENGINEER No. 154667 DEAN P. SWORDEN STATE OF UTAH 4-3-09

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E 601

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