

# GSLEP ADMINISTRATION BUILDING

DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH



State of Utah - Department of Administrative Services

## DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

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

### APPROVALS:

Prime Agency \_\_\_\_\_ Date \_\_\_\_\_  
DFCM \_\_\_\_\_ Date \_\_\_\_\_

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

DFCM PLAN CHECK		Division of Facilities Construction and Management	
Phase	Approved	Reviewed	Program
	Approved	Reviewed	None
Accessibility			Yes No
Architectural			Yes No
Civil			Yes No
Electrical			Yes No
Energy			Yes No
HVAC			Yes No
Landscape			Yes No
Plumbing			Yes No
Specification			Yes No
Structural			Yes No

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

ABBREVIATIONS			
AC. ACOUSTIC	EA. EACH	JAN. JANITOR	REQ'D. REQUIRED
ADD. ADDENDUM	EL. ELECTRIC	JT. JOINT	REV. REVISION
A/C AIR CONDITIONING	E.W.C. ELEC. WATER COOLER	JST. JOIST	REC. RECOMMENDATION
AL. ALUMINUM	ELEV. ELEVATION	LAM. LAMINATED	R.D. ROOF DRAIN
ALT. ALTERNATE	EQ. EQUAL	L.DG. LANDING	RFG. ROOFING
A.B. ANCHOR BOLT	EQUIP. EQUIPMENT	LAV. LAVATORY	RM. ROOM
ARCH. ARCHITECT	EXH. EXHAUST	LT. LIGHT	RGH. ROUGH
ASP. ASPHALT	E.J. EXPANSION JOINT	L.W.C. LIGHT WEIGHT CONCRETE	RND. ROUND
@ AT	EXT. EXISTING	LVR. LOUVER	S.A. SUPPLY AIR
& AND	EXT. EXTERIOR	M.B. MACHINE BOLT	SCR. SCREW
BSMT. BASEMENT	F.E. FIRE EXTINGUISHER	M.O. MASONRY OPENING	SECT. SECTION
B.M. BENCHMARK	F.F.C. FIRE EXTINGUISHER CABINET	MAT'L. MATERIAL	SEL. SELECT
BLCK. BLOCKING	FT. FEET	MFR. MANUFACTURER	SHT. SHEET
BD. BOARD	FIN. FINISH	MAX. MAXIMUM	SIM. SIMILAR
B.O. BOTTOM OF BLDG.	FIXT. FIXTURE	MECH. MECHANICAL	SLDG. SLIDING
	FL. FLASHING	M.L. METAL	SM. SMOOTH
		MIN. MINIMUM	SPEC. SPECIFICATION
		MLDG. MOLDING	SPL. SPLASH
		MULL. MULLION	SQ. SQUARE
			STD. STANDARD
			S.S. STAINLESS STEEL
			STRUC. STRUCTURE
			SUSP. SUSPENDED
			SW.BD. SWITCHBOARD
			T&B TOP & BOTTOM
			TECO TELEPHONE COMPANY
			T.G. TEMPERED GLASS
			T.O.C. TOP OF CURB
			T.O. TOP OF
			T.O.P. TOP OF PARAPET
			T.O.D. TOP OF DECK
			TYP. TYPICAL
			T&G TONGUE & GROVE
			U.N.O. UNLESS NOTED OTHERWISE
			V. VENT
			VERT. VERTICAL
			V.G. VERTICAL GRAIN
			VEST. VESTIBULE
			V.T.R. VENT THROUGH ROOF
			V.C.T. VINYL COMPOSITION TILE
			V.C.P. VITREOUS CLAY PIPE
			W.W.F. WELDED WIRE FABRIC
			W.C. WATER CLOSET
			W.H. WATER HEATER
			W.F. WIDE FLANGE
			W/ WITH
			W/O WITHOUT
			WD. WOOD
			WDW. WINDOW
			W.R. WATER RESISTANT
			W.P. WATER PROOF
			R.A. RETURN AIR
			RAD. RADIUS
			REG. REGISTER
			R.I. RIGID INSULATION
			B.I. BATT INSULATION
			G.W.B. GYPSUM WALL BOARD
			PLYWOOD
			BLOCKING
			CONTINUOUS WOOD
			LEVEL ELEVATION, FLOOR ELEVATION, POINT ELEVATION
			CENTERLINE
			BUILDING SECTION FLAG
			WALL SECTION FLAG
			INTERIOR ELEVATION
			DETAIL
			GRID TAG
			WINDOW TAG
			DOOR TAG
			ROOM TAG
			KEYNOTE TAG
			REVISION TAG
			WINDOW GLAZING TAG
			WALL TYPE SYMBOL

### PROJECT TEAM

#### ARCHITECTURAL

JRCA, Architects

577 South 200 East  
Salt Lake City, Utah 84111  
(801) 533-2100 Fax 533-2101  
Contact: Danny Fuchs - dfuchs@jrcadesign.com

#### CIVIL

Bush and Guggell, Inc.

525 South 300 East  
Salt Lake City, Utah 84111  
(801) 364-1212 Fax 364-1225  
Contact: George Buys - gbuys@bushandguggell.com

#### STRUCTURAL

Shen Engineering

3335 South 900 East #250  
Salt Lake City, Utah 84106  
(801) 466-2625 Fax 466-2611  
Contact: Henry Shen - sheneng@msn.com

#### MECHANICAL & PLUMBING

Dale R. Wilde

1106 East 2700 South  
Salt Lake City, Utah 84106  
(801) 433-1125 Fax 486-0744  
Contact: Ray Wilde - wilde@drwco.com

#### ELECTRICAL

BNA Consulting Engineers

635 South State  
Salt Lake City, Utah 84111  
(801) 532-2196 Fax 532-2305  
Contact: Elaine Fawson - elaine@bnaconsulting.com

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### CONSTRUCTION DOCUMENTS

GSLEP  
ADMINISTRATION BUILDING  
DIVISION OF WILDLIFE RESOURCES  
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04 - 08 - 10	09019

GENERAL  
INFORMATION

GI  
101

### MATERIALS / SYMBOLS LEGEND

	WOOD MOLDING		RIGID INSULATION		BUILDING SECTION FLAG		WINDOW TAG
	STONE IN SECTION		BATT INSULATION		WALL SECTION FLAG		DOOR TAG
	CONCRETE		GYPSUM WALL BOARD		INTERIOR ELEVATION		ROOM TAG
	EARTH		PLYWOOD		DETAIL		KEYNOTE TAG
	GRAVEL		BLOCKING		REVISION TAG		WINDOW GLAZING TAG
	MASONRY		CONTINUOUS WOOD		GRID TAG		WALL TYPE SYMBOL
	STEEL FRAMING		LEVEL ELEVATION, FLOOR ELEVATION, POINT ELEVATION				
			CENTERLINE				

### VICINITY MAP



### ADDITIVE ALTERNATE ONE

DESCRIPTION: APPROXIMATELY 900 SQ. FT. "SHELL"  
ADDITION AS INDICATED ON DRAWINGS

## CONSTRUCTION DOCUMENTS

# CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Fuel Gas Code	2006	ADA Accessibility Guidelines	ANSI A117.1
International Plumbing Code	2006		2003
International Fire Code	2006		
International Energy Conservation Code	2006		

- A. Occupancy and Group: B
- Change in Use: Yes  No  Mixed Occupancy: Yes  No   
 Special Use and Occupancy (e.g. High Rise, Covered Mall): NONE
- B. Seismic Design Category: D Design Wind Speed: 90 mph, Exposure C
- 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: 0 South: 0 East: 0 West: 0
- E. Mixed Occupancies: N Nonseparated Uses: N
- F. Sprinklers:  
 Required: N Provided: N  
 Type of Sprinkler System (IBC 903.3.1) N/A
- G. Number of Stories: 1 Building Height: 19'
- H. Actual Area per Floor (square feet): 3,351
- I. Tabular Area: (table 503) 9,000 SQ. FT.

J. Area Modifications:

$$a) A_a = \left\{ A_1 + \left[ A_1 \times I_f \right] + \left[ A_2 \times I_s \right] \right\} \quad I_f = \left[ F/P - 0.25 \right] W / 30$$

$$A_a = \left\{ 9,000 + \left[ 9,000 \times 0 \right] + \left[ 9,000 \times 0 \right] \right\} = 9,000 \quad \begin{matrix} I_f = 0 \\ I_s = 0 \end{matrix}$$

b) Sum of the Ratio Calculations for Mixed Occupancies: N/A

c) Total Allowable Area for:

- One Story: 9,000
- Two Story: A<sub>a</sub>(2) N/A
- Three Story: A<sub>a</sub>(3) N/A

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	0	
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		

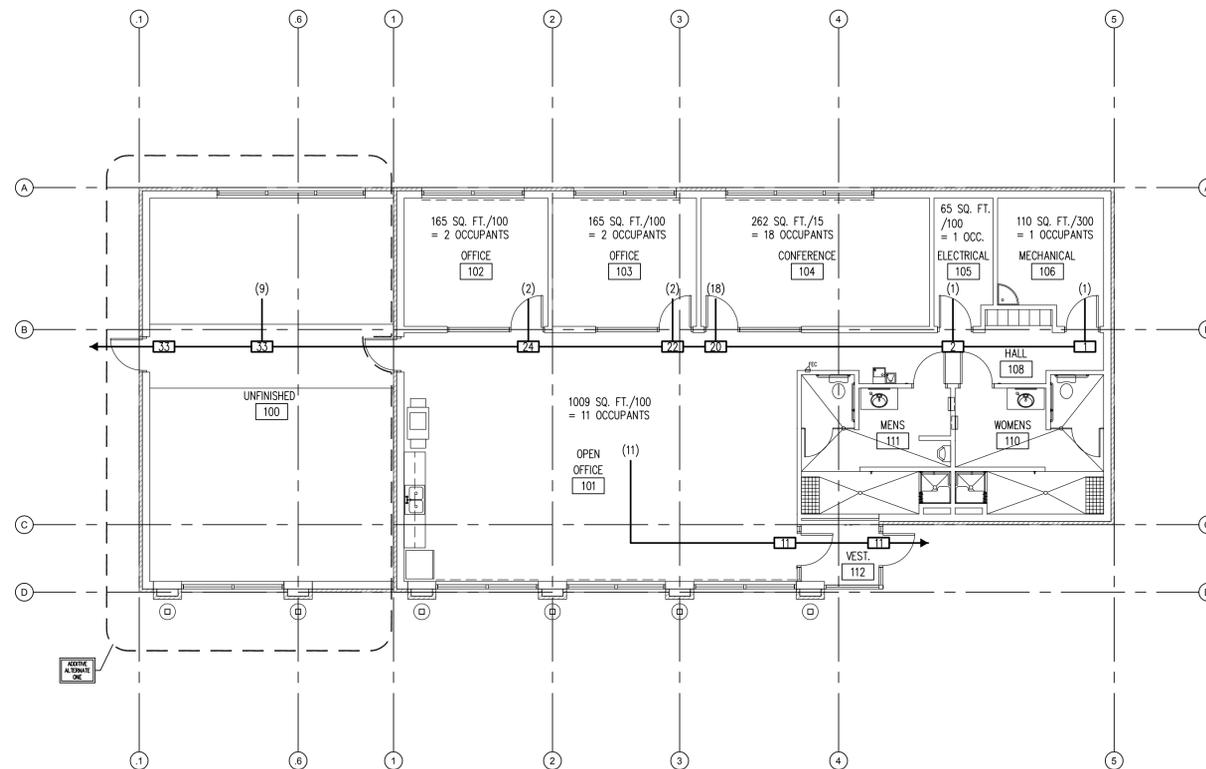
L. Design Occupant Load: 44  
 Exit Width Required: 9 Exit Width Provided: 64

M. Minimum Number of Required Plumbing Facilities:

- Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
- Urinals - Required (m) 0 (f) 0 Provided (m) 1 (f) 0
- Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
- Bath Tubs or Showers: 2
- Drinking Fountains: 1 Service Sinks: 1

FOOTNOTES:

- 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.



**CODE COMPLIANCE PLAN**  
 SCALE 1/8" = 1'-0"



## DEFERRED SUBMITTALS

- BUILDING SIGNAGE AS REQUIRED BY IBC 1110 AND ANSI A117-1 APPROXIMATE DATE: JUNE 15, 2010
- SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ELECTRICAL SYSTEMS, DETAILS AND ENGINEERING CALCULATIONS FOR NON-STRUCTURAL COMPONENTS PERMANENTLY ATTACHED TO STRUCTURE; JUNE 15, 2010
- FIRE ALARM SUBMITTALS; JUNE 15, 2010
- Gypsum Board Ceiling Suspension System Submittals; JUNE 15, 2010

NOTE: DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW W/ AN ACCOMPANIED LETTER FROM THE ARCHITECT STATING THAT THE SUBMITTALS ARE IN CONFORMANCE W/ THE DESIGN WORK RELATED TO THE DEFERRED SUBMITTAL SHALL NOT COMMENCE UNTIL BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL.

- NOTE:
- THESE DOCUMENTS COMPLY WITH DFCM STANDARDS
  - THESE PLANS HAVE BEEN SUBMITTED TO THE STATE FIRE MARSHAL

## LEGEND:

- (2) OCCUPANT LOAD  
 COMBINED OCCUPANT LOAD ALONG PATH OF EGRESS

## CONSTRUCTION DOCUMENTS

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**CODE  
 COMPLIANCE  
 PLAN**

**GI  
 102**

**SPECIAL INSPECTION AND TESTING UNDER THE PROVISIONS OF IBC 1704 AND FOR MISCELLANEOUS AREAS**

Indicate required Special inspections for project by checking the appropriate boxes and provide specific instructions as to the inspection requirements and the expectations of the architect, engineer and owner.

**FABRICATORS (IBC 1704.2)**

Approved Fabricator Fabricators Name: \_\_\_\_\_  
 Unapproved Fabricator Fabricators Name: \_\_\_\_\_  
 In-plant inspections  Steel Construction  Welding  Details

**STEEL (IBC 1704.3)**

Item	Detailed Instructions and Frequencies		
High Strength Bolting (1704.3.3)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
<b>WELDING (1704.3.1)</b>			
Details (1704.3.2)			
Complete & partial penetration groove welds	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Multipass fillet welds	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Single-pass fillet welds > 5/16"	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Single-pass fillet welds ≤ 5/16"	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Floor & roof deck welds	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
<b>REINFORCEMENT STEEL</b>	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Verification of weldability	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Shear wall and shear reinforcement	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Other reinforcement	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Steel frame joint details	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

Structural member surface conditions	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Material application	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Material thickness	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Material density	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Bonding strength	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1704.11)**

Item	Detailed Instructions and Frequencies		
Material and installation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC 1704.12)**

Item	Detailed Instructions and Frequencies		
Material and installation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**ALTERNATIVE CONSTRUCTION METHODS OR MATERIALS (IBC 1704.13)**

Item	Detailed Instructions and Frequencies		
Material and installation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**EPOXY (IBC 1704.13)**

Item	Detailed Instructions and Frequencies		
Material and installation (specify locations)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**SMOKE CONTROL (IBC 1704.14)**

Item	Detailed Instructions and Frequencies		
Material	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Installation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**Special inspection for seismic resistance (IBC 1707)**

Item	Detailed Instructions and Frequencies		
Structural Steel (1707.2)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Structural Wood (1707.3)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Cold-formed steel framing (1707.4)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Pier foundations (1707.5)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Storage racks & access floors (1707.6)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Architectural components (1707.7)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Mechanical & electrical items (1707.8)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Designated systems verification (1707.9)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Seismic isolation systems (1707.10)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**MISCELLANEOUS AREAS**

Item	Detailed Instructions and Frequencies		
These inspections are recommended by the Architect/Engineer and approved by DFCM.			
Suspended Ceiling Grid Clips	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Suspended Ceiling wire spacing (Setmic)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**MASONRY CONSTRUCTION (IBC 1704.5)**

Item	Detailed Instructions and Frequencies		
<b>As masonry construction begins:</b>			
Site prepared mortar	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Construction of mortar joints	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Location of reinforcement, connectors, pre-stressing tendons and anchorages	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Pre-stressing technique	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Grade and size of pre-stressing tendons and anchorages	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
<b>Inspection program verify:</b>			
Size and location of structural elements	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Type, size and location of anchors	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Size, grade and type of reinforcement	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Welding of reinforcement	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Cold and hot weather protection	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Application and measurement of pre-stressing force	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
<b>Prior to grouting verify:</b>			
Clean grout space	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Placement of reinforcement	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Grout mix	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Mortar joints	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Grout placement	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Grout and mortar specimens and prisms	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Construction and submittal compliance verification	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Empirical masonry – Cat. I-III (1708.1.1)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Empirical masonry – Cat. IV (1708.1.1)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Engineered masonry – Cat. I-III (1708.1.1)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Engineered masonry – Cat. IV (1708.1.1)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Engineering & pre-stressing steel (1708.3)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Structural steel (1708.4)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Qualification of mechanical & electrical equipment (1708.5)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Seismically isolated structures (1708.6)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Testing for seismic resistance is	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**WOOD CONSTRUCTION (IBC 1704.6)**

Item	Detailed Instructions and Frequencies		
Prefabricated elements & assembly	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

Soils backfill (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Soils for curb and gutter (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Soils for parking lots (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Soils for utility trench backfill	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Reinforcement for interior slab on grade (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Concrete testing for interior slab on grade (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Masonry Veneer (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Asphalt inspection (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Asphalt testing (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Inspection of seismic resistance (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Steam and water line welding (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Seismic supports for duct work and sealing of joints for duct work	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Seismic supports for electrical raceways, cable trays and lights	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Seismic supports for plumbing lines including gas, water and steam and condensation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Seismic bracing for mechanical units both on slab and suspended	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
	<input type="checkbox"/> Continuous	<input type="checkbox"/> 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

Updated October 8, 2009

**SOILS CONSTRUCTION (IBC 1704.7)**

Item	Detailed Instructions and Frequencies		
Site preparation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Structural fill material	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Testing Agency will test compaction of soils in place according to ASTM D 1556, ASTM D2167, ASTM D2922 and ASTM D 2937, as applicable. Test will be performed at the following locations and frequencies: 1. Paved and building slab areas: at subgrade and at each compacted fill and backfill layer, at least 1 test for every 2000 sf or less of paved area or building slab, but in no case fewer than three tests.
Structural fill lift thickness	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Testing Agency will test compaction of soils in place according to ASTM D 1556, ASTM D2167, ASTM D2922 and ASTM D 2937, as applicable. Test will be performed at the following locations and frequencies: 1. Paved and building slab areas: at subgrade and at each compacted fill and backfill layer, at least 1 test for every 2000 sf or less of paved area or building slab, but in no case fewer than three tests.
Structural fill soil densities	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Testing Agency will test compaction of soils in place according to ASTM D 1556, ASTM D2167, ASTM D2922 and ASTM D 2937, as applicable. Test will be performed at the following locations and frequencies: 1. Paved and building slab areas: at subgrade and at each compacted fill and backfill layer, at least 1 test for every 2000 sf or less of paved area or building slab, but in no case fewer than three tests.
Backfill soils materials	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Testing Agency will test compaction of soils in place according to ASTM D 1556, ASTM D2167, ASTM D2922 and ASTM D 2937, as applicable. Test will be performed at the following locations and frequencies: 1. Paved and building slab areas: at subgrade and at each compacted fill and backfill layer, at least 1 test for every 2000 sf or less of paved area or building slab, but in no case fewer than three tests.
Backfill soil densities	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Testing Agency will test compaction of soils in place according to ASTM D 1556, ASTM D2167, ASTM D2922 and ASTM D 2937, as applicable. Test will be performed at the following locations and frequencies: 1. Paved and building slab areas: at subgrade and at each compacted fill and backfill layer, at least 1 test for every 2000 sf or less of paved area or building slab, but in no case fewer than three tests.

**PILE FOUNDATIONS (IBC 1704.8)**

Item	Detailed Instructions and Frequencies		
Observe driving operation and reporting	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Verify placement & installation data	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**PIER FOUNDATIONS (IBC 1704.9)**

Item	Detailed Instructions and Frequencies		
Observe drilling operation and reporting	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd
Verify placement & installation data	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Not Req'd

**SPRAYED FIRE-RESISTANT MATERIALS (IBC 1704.10)**

Item	Detailed Instructions and Frequencies		

CONSTRUCTION DOCUMENTS

GSLEP  
ADMINISTRATION BUILDING  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

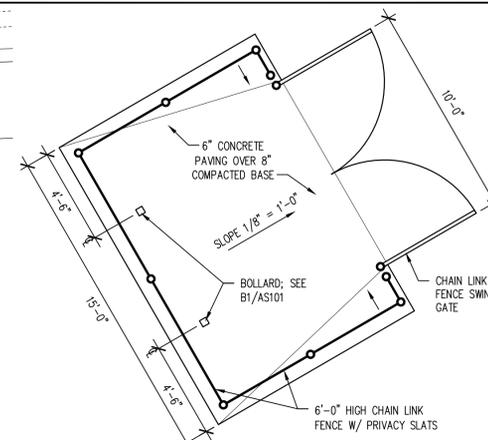
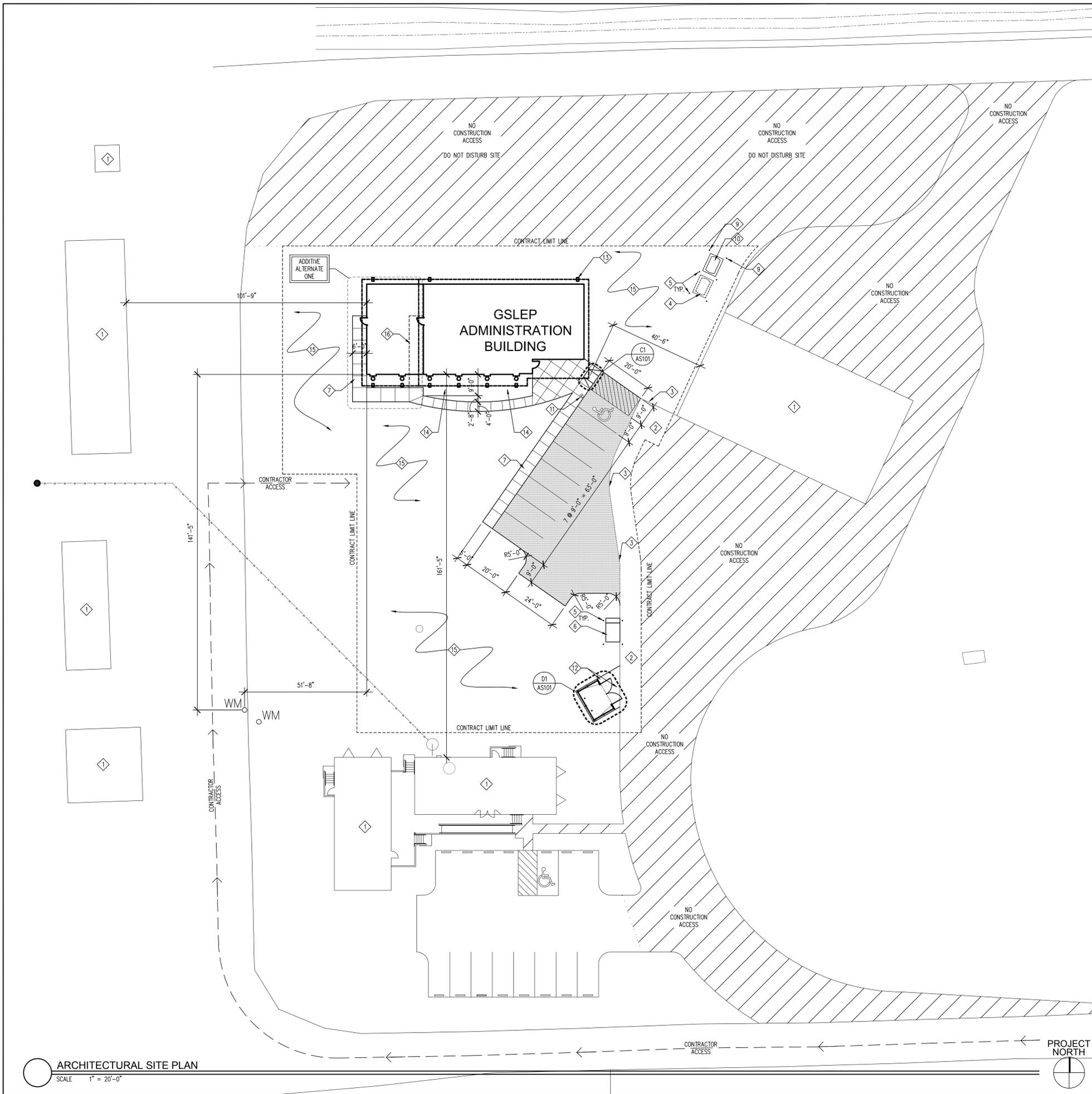


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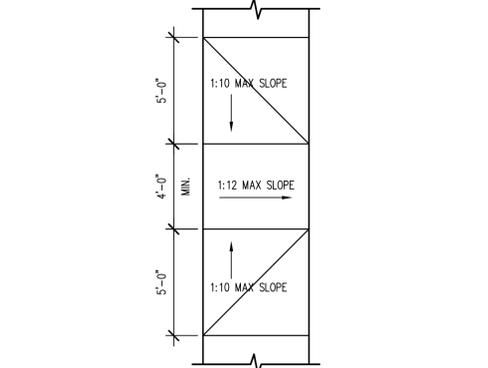
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SPECIAL  
INSPECTION  
CHECK LIST

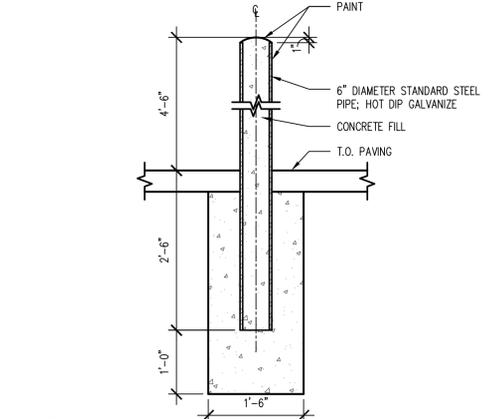
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103



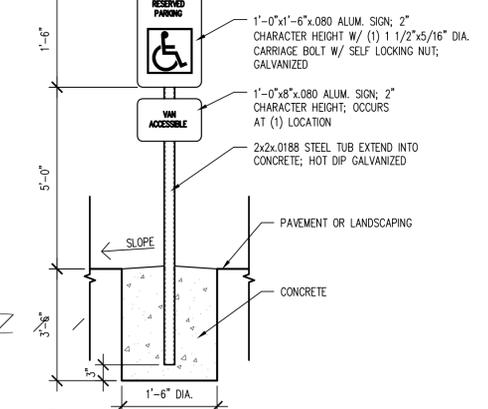
**D1 AS101 ENLARGED PLAN**  
SCALE 1/4" = 1'-0"  
P-01.DWG



**C1 AS101 SIDEWALK RAMP**  
SCALE 1/4" = 1'-0"  
0-03.DWG



**B1 AS101 BOLLARD DETAIL**  
SCALE 3/4" = 1'-0"  
0-02.DWG



**A1 AS101 ADA PARKING STALL SIGN**  
SCALE 3/4" = 1'-0"  
0-01.DWG

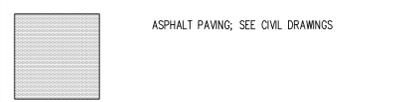
**GENERAL NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING LANDSCAPING & SITE IMPROVEMENTS WHICH ARE TO REMAIN FREE FROM DAMAGE DURING CONSTRUCTION BOTH INSIDE & OUTSIDE THE CONTRACT LIMIT LINE. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED ITEM OR SITE IMPROVEMENTS AS SPECIFIED OR IF NOT SPECIFIED, MATCH EXISTING ADJACENT CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UTILITIES & SITE IMPROVEMENTS WHICH ARE AFFECTED BY, OR WHICH TIE-IN W/ NEW CONSTRUCTION.
3. EXISTING ROAD, PARKING, SERVICE DRIVES & SIDEWALKS SHALL REMAIN ACCESSIBLE & BE KEPT CLEAR OF CONSTRUCTION EQUIPMENT, MATERIALS, MUD, DIRT OTHER DEBRIS.
4. SEE CIVIL DRAWINGS FOR EXTENT OF SITE WORK.

**KEY NOTES:**

- 1 EXISTING BUILDING TO REMAIN
- 2 EXISTING PAVEMENT TO REMAIN
- 3 EDGE OF EXISTING PAVEMENT
- 4 EXISTING PROPANE TANK TO REMAIN
- 5 EXISTING BOLLARD TO REMAIN
- 6 EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- 7 4" THICK CONCRETE PAVING OVER 6" COMPACTED BASE
- 8 NOT USED
- 9 BOLLARD; SEE B1/AS101
- 10 PROPANE TANK CONCRETE PAD; 6" THICK OVER 6" COMPACTED BASE; TANK N.I.C.
- 11 ADA PARKING STALL SIGN; SEE A1/AS101
- 12 6" THICK CONCRETE PAVING OVER 8" COMPACTED BASE
- 13 PRE-CAST CONCRETE SPLASH BLOCK @ GUTTER DOWNSPOUT; TYP. @ (9) LOCATIONS
- 14 2'-4" ± COBBLE ROCK OVER CONT. WEED BARRIER OVER 6" TOP SOIL RESTORE TO PRE-CONSTRUCTION CONDITION
- 15 6'-0" WIDE CONCRETE PAVEMENT, 4" THICK CONCRETE OVER 6" COMPACTED BASE TO BE INCLUDED IN BASE BID; OMIT AS PART OF ADDITIVE ALTERNATE ONE

**LEGEND:**



**CONSTRUCTION DOCUMENTS**

**GSLEP ADMINISTRATION BUILDING**  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

**ARCHITECTS**  
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Salt Lake City, Utah 84111  
(801) 533-2100 fax: 533-2101 jrcadesign.com

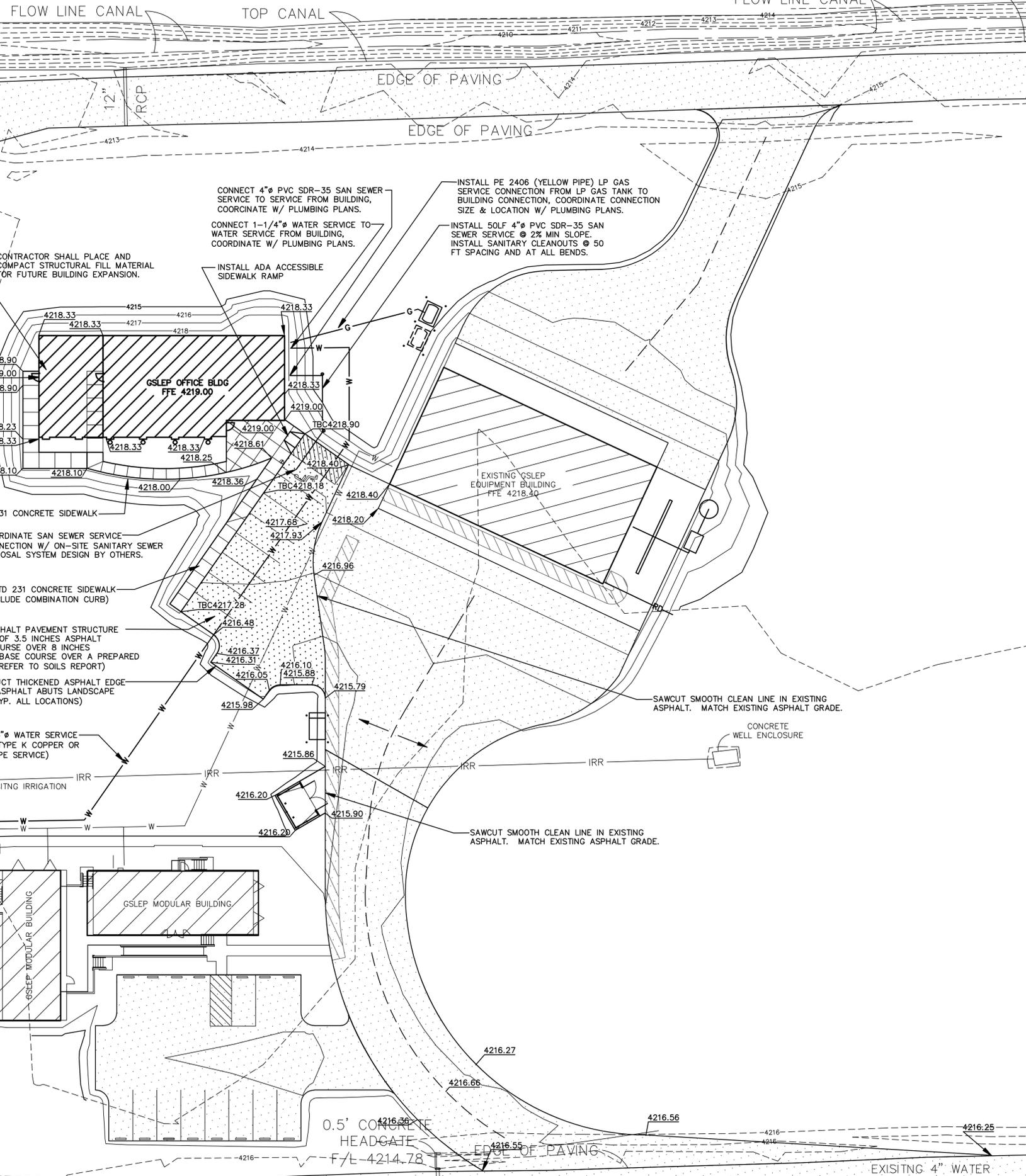
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**ARCHITECTURAL SITE PLAN**

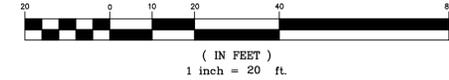
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101

**LEGEND**

- FH FIRE HYDRANT
- PP POWER POLE
- P/T POWER/TELEPHONE LINE
- SP SERVICE POLE
- TP TELEPHONE PEDESTAL
- WM WATER METER
- WV WATER VALVE
- FENCE/GATE



GRAPHIC SCALE

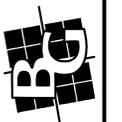


**GENERAL NOTES:**

1. CONTRACTOR SHALL CALL FOR BLUE STAKES, TELEPHONE 1-800-662-4111, A MINIMUM OF 48 HOURS BEFORE ANY EXCAVATION IS TO COMMENCE.
2. CONTRACTOR SHALL HAVE OBTAINED AND REVIEWED THE GEOTECHNICAL ENGINEERING STUDY AND SHALL BE FAMILIAR WITH THE RECOMMENDATIONS MADE IN THAT REPORT.
3. STRIP AND REMOVE EXISTING VEGETATION, ORGANIC TOPSOILS, DEBRIS, FILL, EXISTING FOUNDATIONS, UTILITY TRENCHES AND ANY OTHER DELETERIOUS MATERIALS FROM THE BUILDING AND PAVEMENT AREAS. ORGANIC TOPSOILS MAY EXTEND FROM SIX TO TEN INCHES BELOW THE SURFACE. ALL EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION.
4. THE SUBGRADE SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED TO A FIRM UNYIELDING CONDITION TO A MINIMUM DEPTH OF 8 INCHES PRIOR TO PLACEMENT OF PAVEMENT MATERIALS. IF LOOSE ZONES ARE ENCOUNTERED THAT DO NOT IMPROVE WITH REPEATED COMPACTION, THEY SHALL BE REMOVED AND REPLACED WITH PROPERLY-COMPACTED, STRUCTURAL FILL.
5. PLACE AND COMPACT FILL MATERIALS IN HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED WATER CONTENTS AND DENSITIES THROUGHOUT THE LIFT. NO FILL SHALL BE PLACED OVER FROZEN GROUND. MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION (ASTM D1557).
6. FILL SOILS SHALL NOT CONTAIN SNOW OR ICE, OR BE PLACED IN A FROZEN CONDITION. FILL SOILS SHALL NOT BE PLACED ON SNOW, ICE, OR FROZEN SOILS.
7. NO GRADE CHANGES WILL BE PERMITTED FROM THAT SHOWN AND APPROVED ON THIS PLAN WITHOUT RESUBMITTING THE PROPOSED CHANGES TO THE OWNER, AND HIS REPRESENTATIVE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF OR DAMAGE TO EXISTING IMPROVEMENTS AT OR NEAR THE PROJECT SITE.
9. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES LOCATED AT OR NEAR THE PROJECT SITE AND SHALL PROTECT THOSE UTILITIES FROM ANY POTENTIAL DAMAGE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL IN ACCORDANCE WITH THE DRAPER CITY STANDARDS. CONTRACTOR SHALL WET DOWN ALL DRY MATERIALS TO PREVENT BLOWING DUST AND REMOVE ALL RUBBISH TO PREVENT WIND SCATTERING.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO ADJACENT SURFACE IMPROVEMENTS DURING CONSTRUCTION.
12. ALL EXISTING ASPHALT TO BE CUT SHALL BE SAWCUT IN NEAT STRAIGHT LINES BY THE CONTRACTOR PRIOR TO EXCAVATION.
13. ALL WATER LINE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE TECHNICAL DRAWINGS AND SPECIFICATIONS OF HOOPER WATER IMPROVEMENT DISTRICT (TELEPHONE: 801-985-1991)



**BUSH & GUDGELL, INC.**  
 Engineers - Planners - Surveyors  
 525 South 300 East  
 Salt Lake City, Utah 84111  
 Phone (801) 364-1212 / Fax (801) 364-1225  
 www.bushandgudgell.com



Drawn : GWB Date : 8 APR 2010  
 Designer : GWB  
 Checked : GWB  
 Approved : GWB  
 Scale : 1 INCH = 20 FEET  
 Job No : 102009

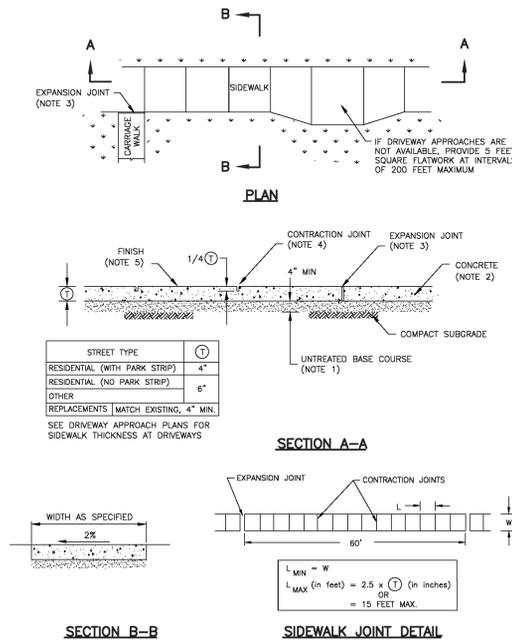
**GSLEP OFFICE BUILDING  
 UTILITY & GRADING PLAN**  
 4786 SOUTH 7800 WEST, HOOPER, UTAH  
 LOCATION: SEC 10, T5N, R3W, S.L.P.A.M.  
 PREPARED FOR: JRCA ARCHITECTS

SHEET  
**C-1**  
 SHEETS  
 FILE: 102009

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**Concrete sidewalk**

- UNTREATED BASE COURSE: Provide material specified in APWA Section 32 11 23.
  - Do not use gravel as a substitute for untreated base course without ENGINEER'S permission.
  - Place material per APWA Section 32 05 10.
  - Compact per APWA Section 31 23 26 to a modified proctor density of 95 percent or greater. Maximum lift thickness before compaction is 8 inches when using riding compaction equipment or 6 inches when using hand held compaction equipment.
- CONCRETE: Class 4000 per APWA Section 03 30 04.
  - If necessary, provide concrete that achieves design strength in less than 7 days. Caution; concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
  - Place concrete per APWA Section 03 30 10.
  - Provide 1/2 inch radius on concrete edges exposed to public view.
  - Cure concrete per APWA Section 03 39 00 with type ID Class A or B (clear with fugitive dye) membrane forming compound unless specified otherwise.
- EXPANSION JOINT: Make expansion joints vertical, full depth, 1/2 inch wide with type F1 joint filler material per APWA Section 32 13 73.
  - Set top of filler flush with surface of concrete.
  - Expansion joints are not required in slip formwork except at the start or end of the installation activity.
- CONTRACTION JOINT: Make contraction joints vertical.
  - 1/8 inch wide and 1 inch deep or 1/4 slab thickness if slab is greater than 4 inches thick.
  - Maximum length to width ratio for non-square panels is 1.5 to 1.
- FINISH: Broomed.



APWA STD 231 CONCRETE SIDEWALK

50

December 2005

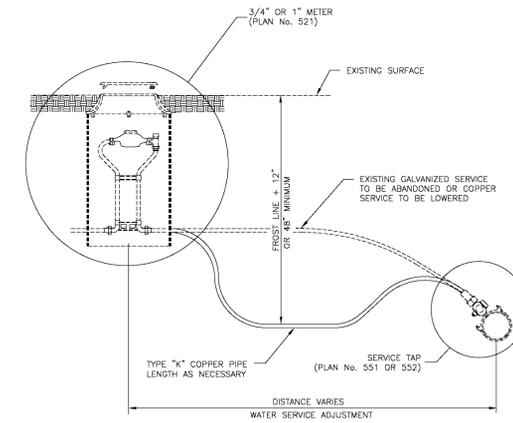
Concrete sidewalk

51

Plan No. 231

**Water service line**

- INSPECTION: Prior to backfilling trench excavation, secure inspection of installation by ENGINEER.
- BACKFILL: Provide and place per APWA Section 33 05 20. Compact per APWA Section 31 23 26 to a modified proctor density of 95 percent or greater. Maximum lift thickness is 8 inches before compaction.
- FITTINGS: Provide brass fittings and nipples. Do not use galvanized materials.



APWA STD 541 WATER SERVICE LINE

228

August 2001

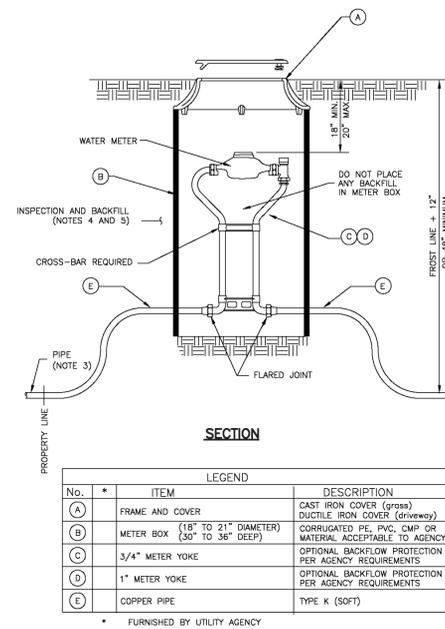
Water service line

229

Plan No. 541

**3/4" and 1" meter**

- METER PLACEMENT:
  - In new construction, install meter at center of lot or per agency requirements.
  - All meters are to be installed in the park strip or within 7 feet of the property line (street side).
  - Do not install meters under driveway approaches, sidewalks, or curb and gutter.
- METER BOX:
  - In landscaped areas and driveway approaches, set box so grade of the frame and cover matches the grade of the surrounding surface.
  - In street surfaces or other vehicular traffic areas, provide the same type of meter box as required for 1 1/2" and 2" service meters. See Plan 522.
- PIPE: Coordinate with utility agency or property owner for type of pipe to be used outside of right-of-way.
- INSPECTION: Prior to backfilling around meter box, secure inspection of installation by ENGINEER.
- BACKFILL: Provide and place per APWA Section 33 05 20. Compact per APWA Section 31 23 26 to a modified proctor density of 95 percent or greater. Maximum lift thickness is 8 inches before compaction.
- CASTING: Grey iron class 35 minimum per ASTM A 48.



APWA STD 521 3/4" AND 1" METER

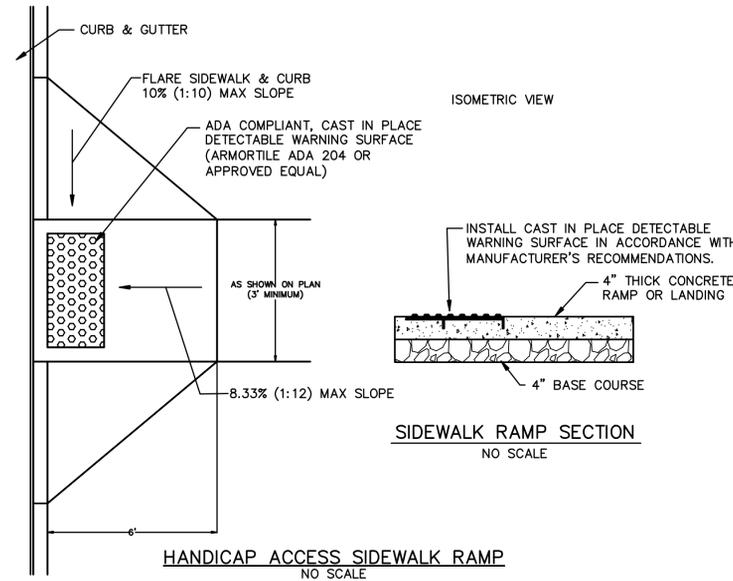
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August 2001

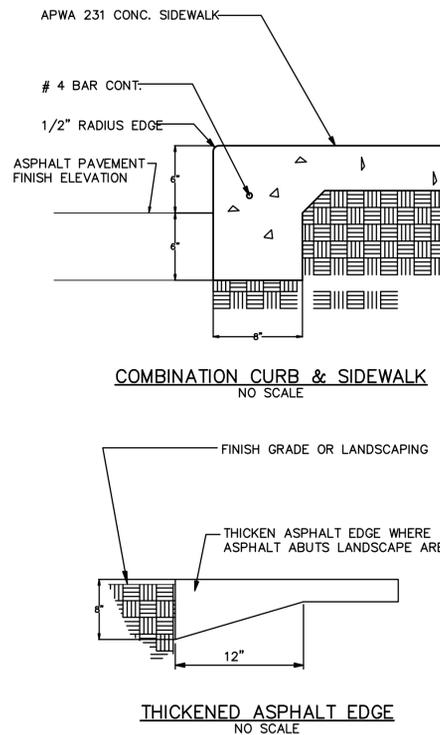
3/4" and 1" meter

215

Plan No. 521



HANDICAP ACCESS SIDEWALK RAMP  
NO SCALE



COMBINATION CURB & SIDEWALK  
NO SCALE

THICKENED ASPHALT EDGE  
NO SCALE

Drawn: GWB Date: 8 APR 2010

Designer: GWB

Checked: GWB

Approved: AS SHOWN

Scale: AS SHOWN

Job No: 102009

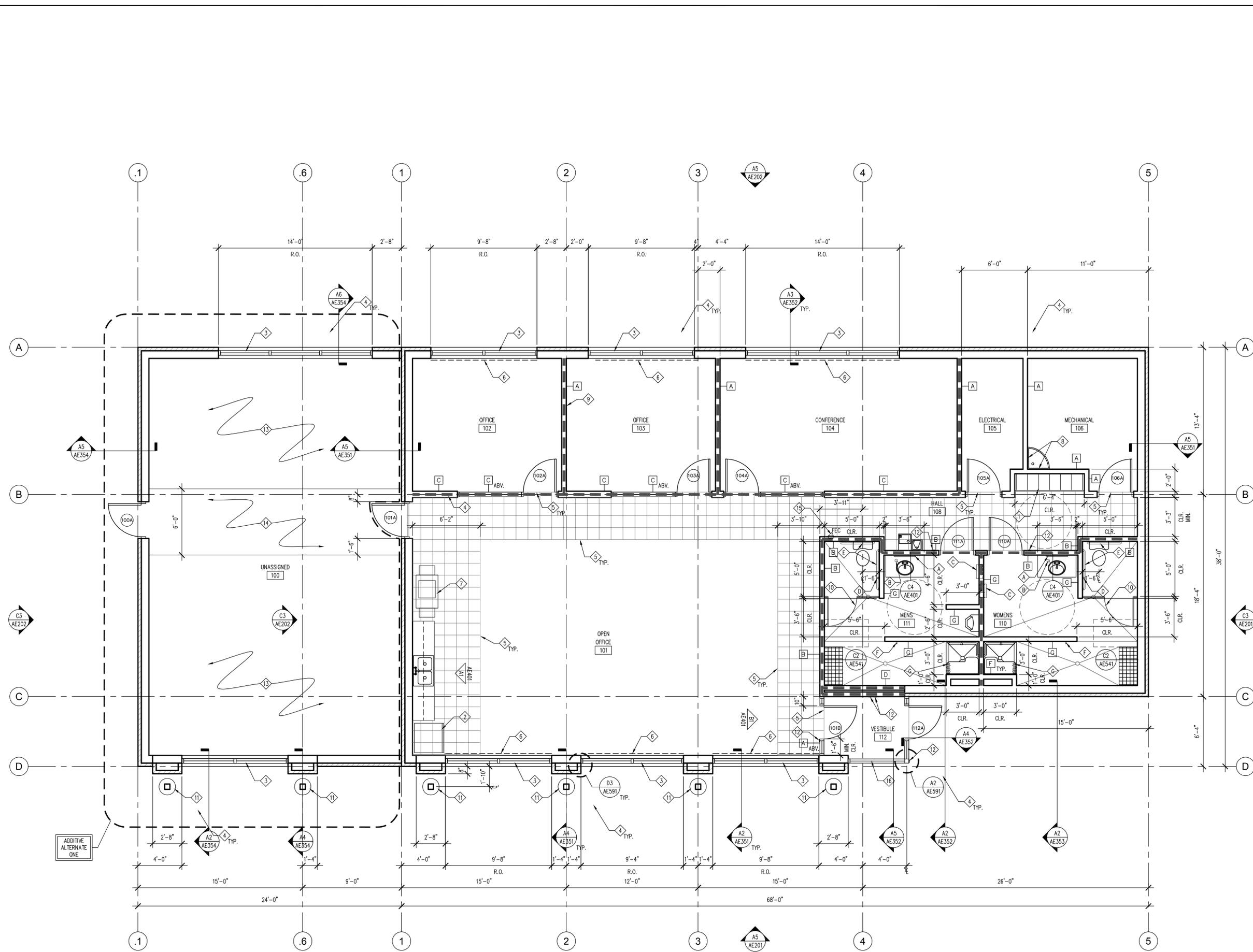
**GSLEP OFFICE BUILDING  
DETAIL SHEET**  
4786 SOUTH 7800 WEST, HOOPER, UTAH  
LOCATION: SEC 10, T8N, R3W, S.L.P.A.M.  
PREPARED FOR: JRCA ARCHITECTS

SHEET  
**C-2**

SHEETS  
FILE: 102009

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

**GENERAL NOTES:**

1. DIMENSIONS TO FACE OF STUDS, U.N.O.
2. DEPRESS SLAB IN ROOMS 110 & 111 1 1/2"

**KEY NOTES:**

- 1 (12) 12" X 18" HALF HIGH PRE-MANUFACTURED WOOD LOCKERS
- 2 REFRIGERATOR; N.I.C.
- 3 ALUMINUM WINDOW SYSTEM
- 4 OF STUD LOCATED ON GRIDLINE
- 5 FLOOR FINISH TRANSITION
- 6 ROLLER BLINDS; FULL HEIGHT OF WINDOW
- 7 COPY MACHINE, N.I.C.
- 8 4'-0" X 4'-0" WALL TILE W/ COVED TILE BASE AND BULLNOSE TRIM @ (2) WALLS ADJACENT TO JANITOR SINK
- 9 FACE OF STUD LOCATED ON GRIDLINE
- 10 TOILET PARTITION
- 11 CONCRETE PIER
- 12 POWERED OPERATOR ACTUATOR
- 13 PROVIDE AND INSTALL 6" COMPACTED BASE, DO NOT CONSTRUCT CONCRETE SLAB IN THIS AREA
- 14 4" THICK CONCRETE SLAB
- 15 FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET
- 16 ALUMINUM STOREFRONT SYSTEM

**TOILET ACCESSORY NOTES:**

- A MIRROR
- B SOAP DISPENSER
- C SEMI-RECESSED WASTE RECEPTACLE
- D VERTICAL GRAB BAR
- E 36" & 42" GRAB BAR
- F ROBE HOOK
- G SHOWER CURTAIN, ROD & HOOKS

**LEGEND:**

- 001 DOOR TAG, SEE DOOR SCHEDULE SHEET AE601
- ROOM ROOM TAG, SEE FINISH SCHEDULE AE601
- WALL TYPE TAG, SEE SHEET AE511
- SOUND WALL, EXTEND ENTIRE WALL ASSEMBLY TO BOTTOM OF ROOF DECK; ALLOW FOR 1/2" ROOF DEFLECTION
- FLOOR TYPE F2; SEE SHEET AE601

**CONSTRUCTION DOCUMENTS**

**GSLEP  
ADMINISTRATION BUILDING**  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH



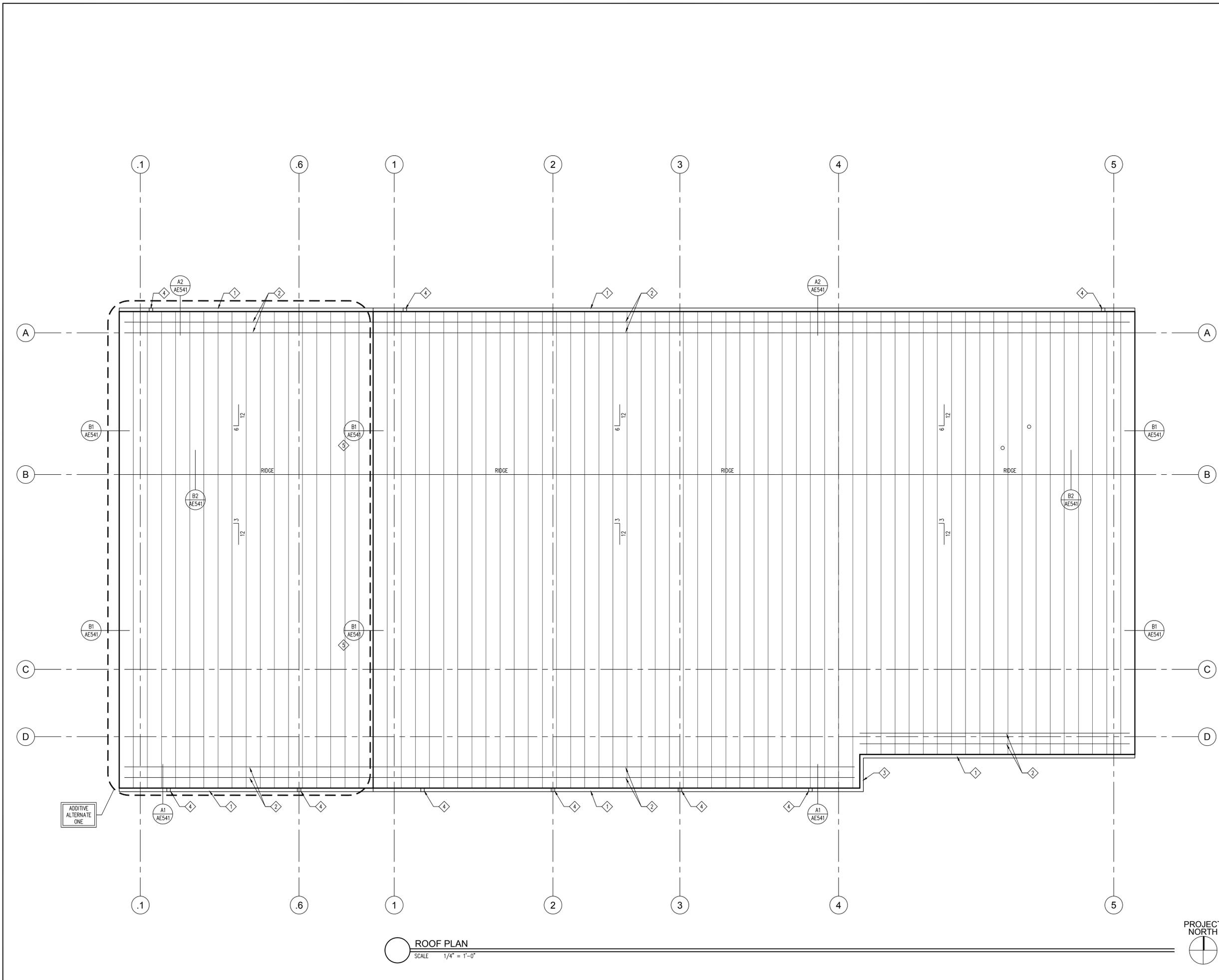
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FLOOR PLAN

**AE  
101**





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

KEY NOTES:

- ◇ GUTTER SYSTEM
- ◇ CONT. SNOW GUARD
- ◇ EXTEND DOWN RAKE @ THIS LOCATION
- ◇ DOWNSPOUT LOCATION
- ◇ DETAIL OCCURS AS PART OF BASE BID

LEGEND:

- STANDING SEAM METAL ROOF PANEL SYSTEM OVER ICE & WATER SHIELD OVER WOOD SHEATHING; INSTALL ICE & WATER SHIELD OVER ENTIRE ROOF AREA
- VENT PIPE, DO NOT INSTALL PIPE FLASHING @ STANDING SEAM

CONSTRUCTION DOCUMENTS

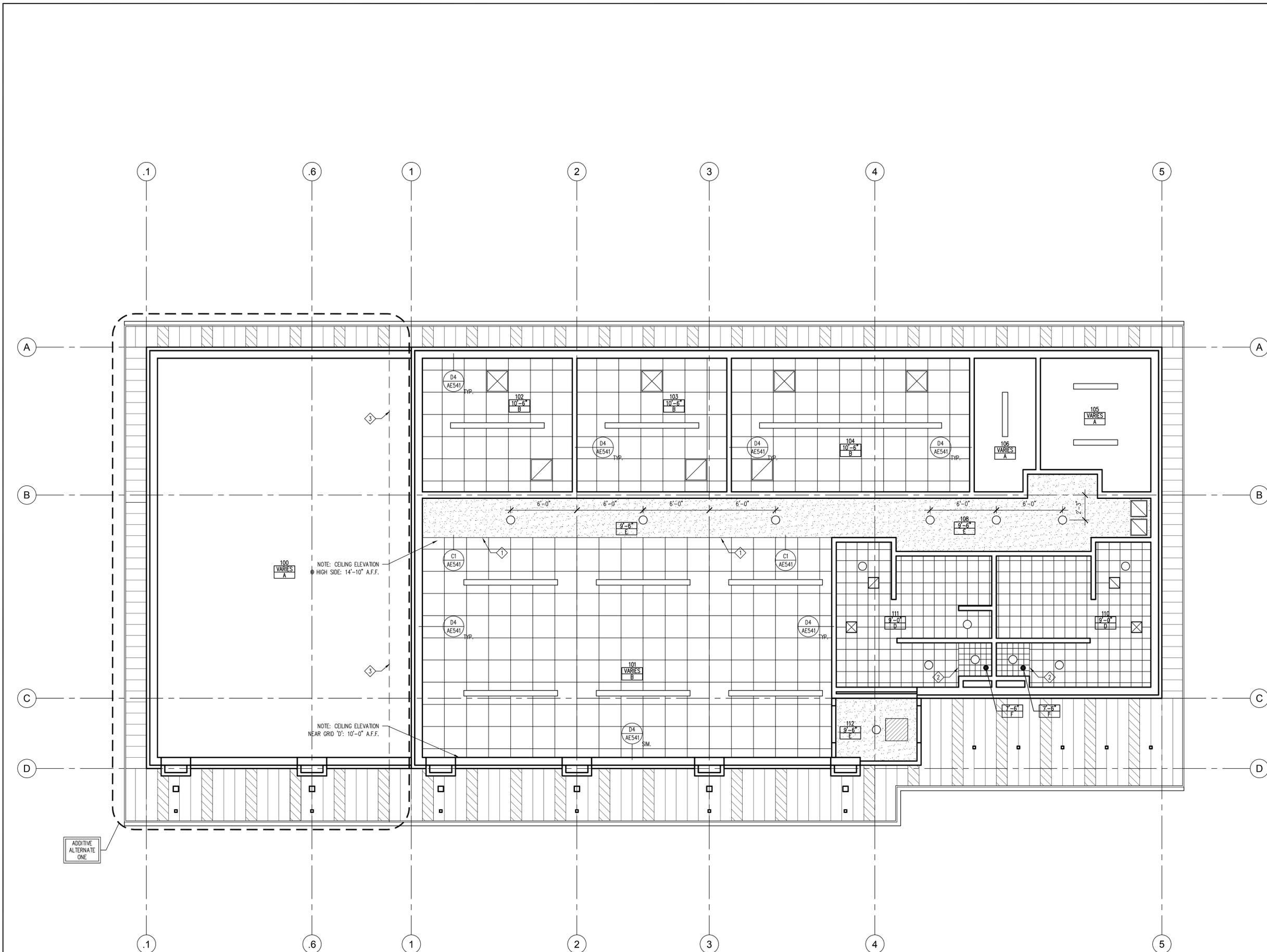
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HOOPER, UTAH



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ROOF PLAN	AE 151
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REFLECTED CEILING PLAN  
SCALE 1/4" = 1'-0"

**GENERAL NOTES:**

1. CEILING IN ROOM 101 SLOPES FROM 10'-0" A.F.F. @ GRID 'D' TO 14'-10" @ HIGH SIDE

**KEY NOTES:**

- GYP. BD. FACIA; 2x4 WOOD STUDS @ 16" O.C. W/ 5/8" GYP. BD.
- GYP. BD. FACIA; 2x4 WOOD STUDS @ 16" O.C. W/ 5/8" WATER RESISTANT GYP. BD. W/ 6" x 6" WALL TILE
- OMIT SOFFIT AS PART OF ADDITIVE ALTERNATE ONE
- HATCH INDICATES PERFORATED SOFFIT PANELS @ 4'-0" O.C.

**CEILING TYPES:**

- A - EXPOSED STRUCTURE, DO NOT PAINT
- B - 24" x 24" SUSPENDED ACOUSTICAL PANEL CEILING, SEE D1/AE541
- C - NOT USED
- D - SUSPENDED GYP. BD. CEILING SYSTEM W/ 12" x 12" ADHERED CEILING TILE; SEE D2/AE541 (SIM.)
- E - SUSPENDED GYP. BD. CEILING SYSTEM; SEE D2/AE541
- F - SUSPENDED GYP. BD. CEILING SYSTEM W/ 5/8" WATER RESISTANT GYP. BD. W/ 6" x 6" WALL TILE

**REFLECTED CEILING PLAN LEGEND**

- RETURN AIR GRILL, SEE MECHANICAL DWGS.
- SUPPLY DIFFUSER, SEE MECHANICAL DWGS.
- ROOM NUMBER  
CEILING HEIGHT  
CEILING TYPE
- RECESSED DOWN LIGHT, SEE ELECTRICAL DWGS.
- LIGHT FIXTURE, SEE ELECTRICAL DWGS.

**CONSTRUCTION DOCUMENTS**

GSLEP  
ADMINISTRATION BUILDING  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

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REFLECTED  
CEILING PLAN

**AE  
161**

**GENERAL NOTES:**

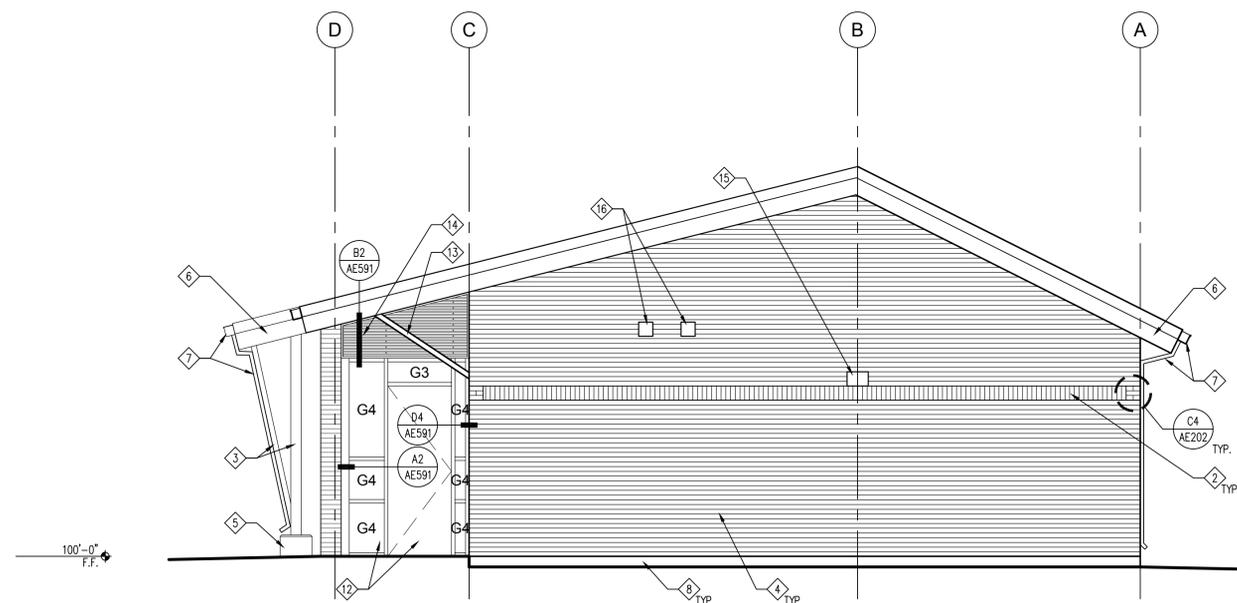
1. ALL MASONRY JOINTS TO BE RAKED JOINTS
2. ALL MASONRY TO RECEIVE WATER REPELLANT

**KEY NOTES:**

- 1 SCHEDULED DOOR & FRAME
- 2 SOLDIER COURSE
- 3 STEEL COLUMN, HOT DIP GALVANIZE, PAINT
- 4 BRICK VENEER
- 5 CONCRETE PIER
- 6 SHEET METAL FLASHING FACIA
- 7 GUTTER SYSTEM
- 8 CONCRETE FOUNDATION WALL
- 9 STANDING SEAM METAL ROOF SYSTEM
- 10 PRE-CAST CONCRETE SILL
- 11 ALUMINUM WINDOW SYSTEM
- 12 ALUMINUM STOREFRONT SYSTEM
- 13 STEEL BRACE; HOT DIP GALVANIZE, PAINT
- 14 METAL WALL PANEL SYSTEM
- 15 LIGHT FIXTURE; BOTTOM OF FIXTURE: 108'-0"
- 16 EXHAUST WALL CAP;  $\frac{1}{4}$  OF WALL CAP: 110'-8"
- 17 DIMENSIONAL CHARACTER SIGN; 6" HIGH LETTERS; HELVETICA
- 18 FABRIC SUN SHADE SYSTEM; SEE A4/AE541
- 19 LOUVER; B.O. LOUVER @ 108'-0"

**GLAZING SCHEDULE**

G1	1/4" CLEAR
G2	1/4" CLEAR - TEMPERED
G3	1" INSULATED
G4	1" INSULATED - TEMPERED



**C3 EAST ELEVATION**

AE201 SCALE 1/4" = 1'-0"

E-EAST.dwg

CONSTRUCTION DOCUMENTS

**GSLEP  
ADMINISTRATION BUILDING**  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

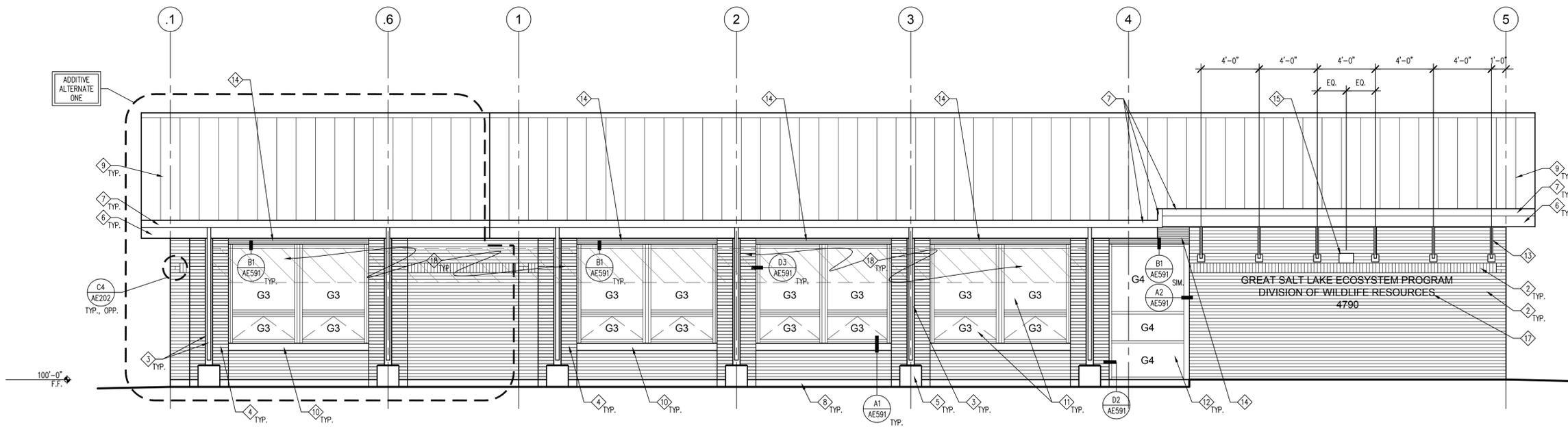


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EXTERIOR  
ELEVATIONS

**AE  
201**



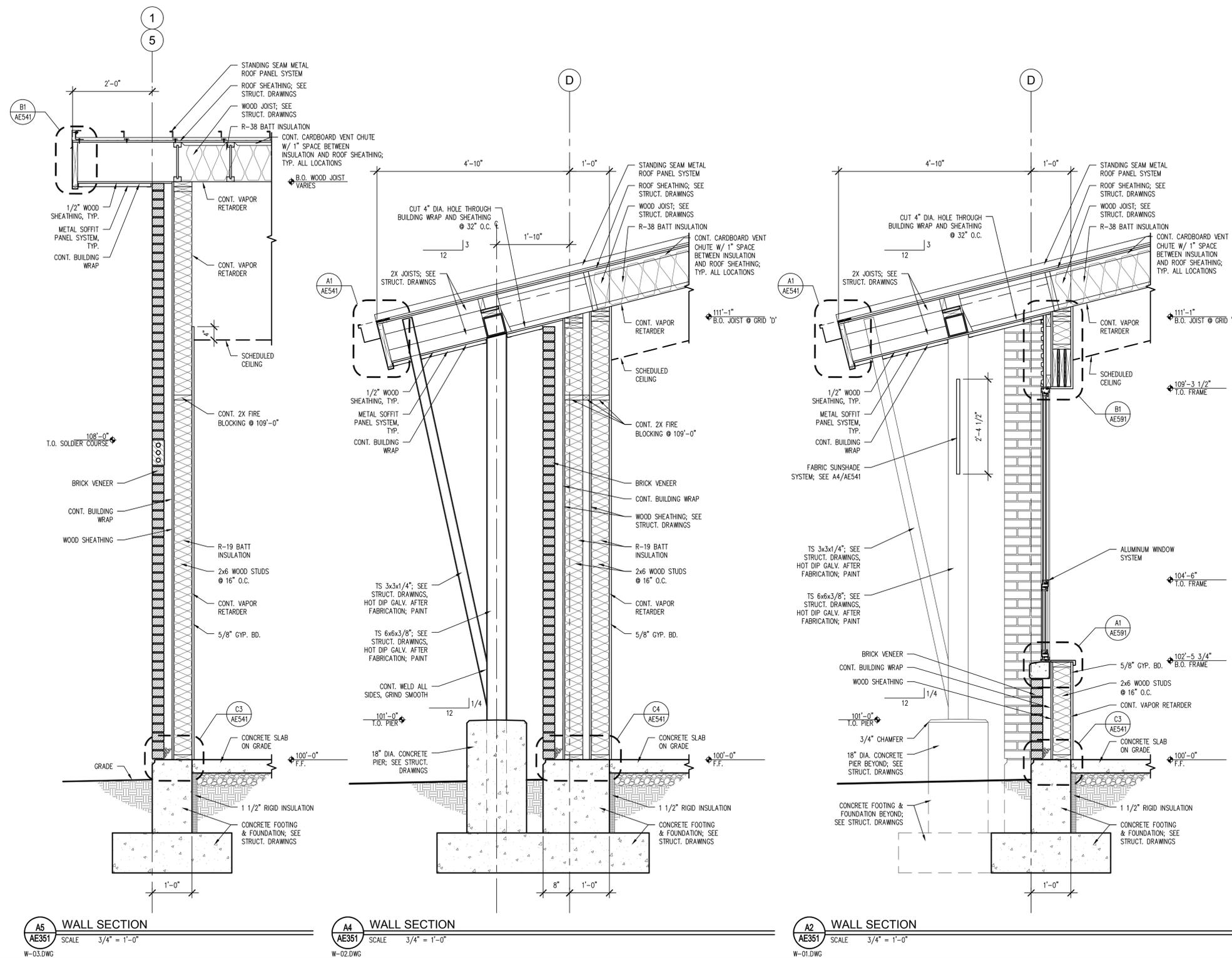
**A5 SOUTH ELEVATION**

AE201 SCALE 1/4" = 1'-0"

E-SOUTH.dwg

GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR TYPE AND SIZE OF HEADER



CONSTRUCTION DOCUMENTS

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 ADMINISTRATION BUILDING  
 DIVISION OF WILDLIFE RESOURCES  
 DFCM PROJECT #09259520  
 HOOPER, UTAH



ARCHITECTS  
 577 South 200 East  
 Salt Lake City, Utah 84111  
 (801) 533-2100 fax: 533-2101 jrcadesign.com

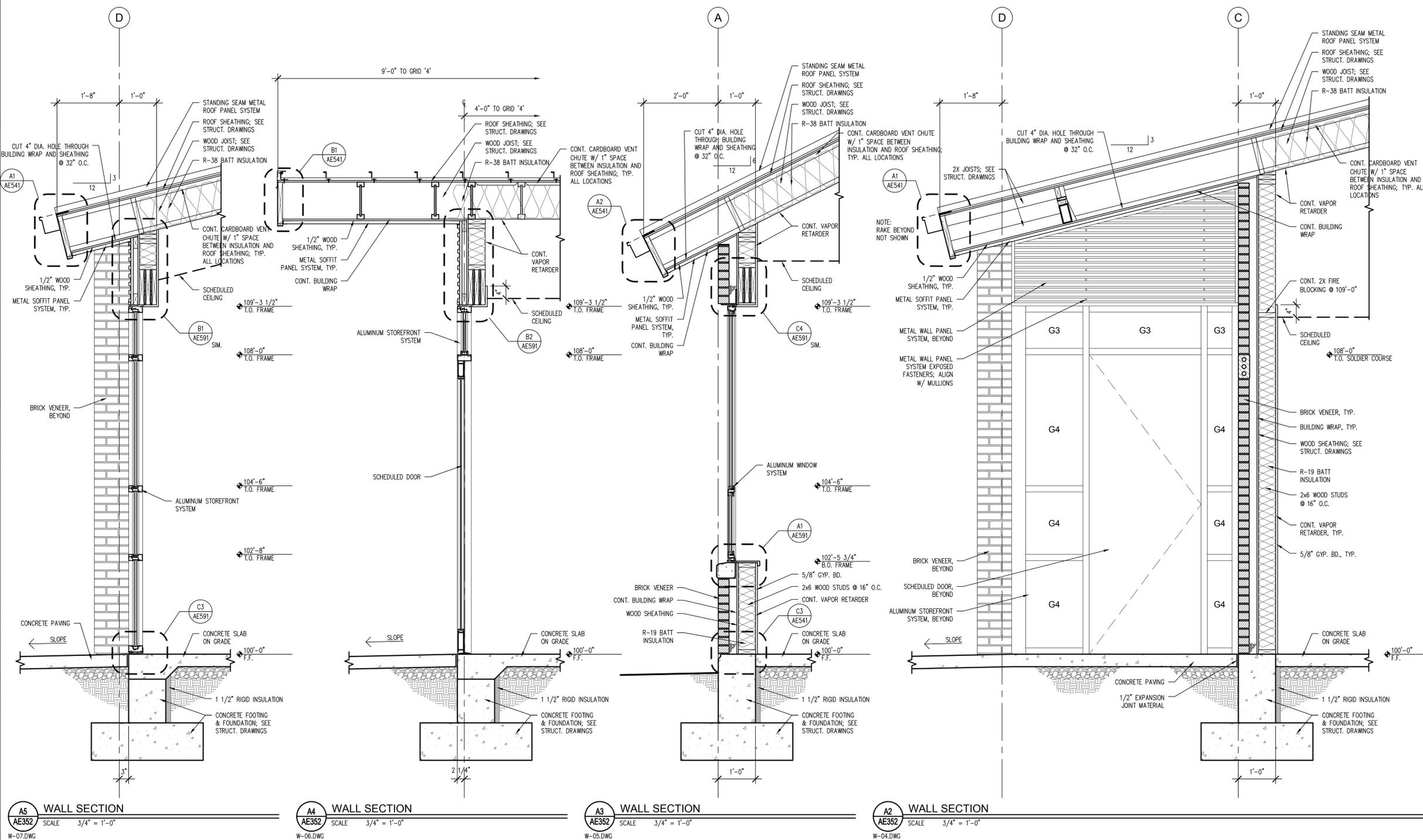
DATE/REVISION	PROJECT #
04 · 08 · 10	09019

WALL SECTIONS

**AE 351**

**GENERAL NOTES:**

1. SEE STRUCTURAL DRAWINGS FOR TYPE AND SIZE OF HEADER



**GLAZING SCHEDULE**

G1	1/4" CLEAR
G2	1/4" CLEAR - TEMPERED
G3	1" INSULATED
G4	1" INSULATED - TEMPERED

**CONSTRUCTION DOCUMENTS**

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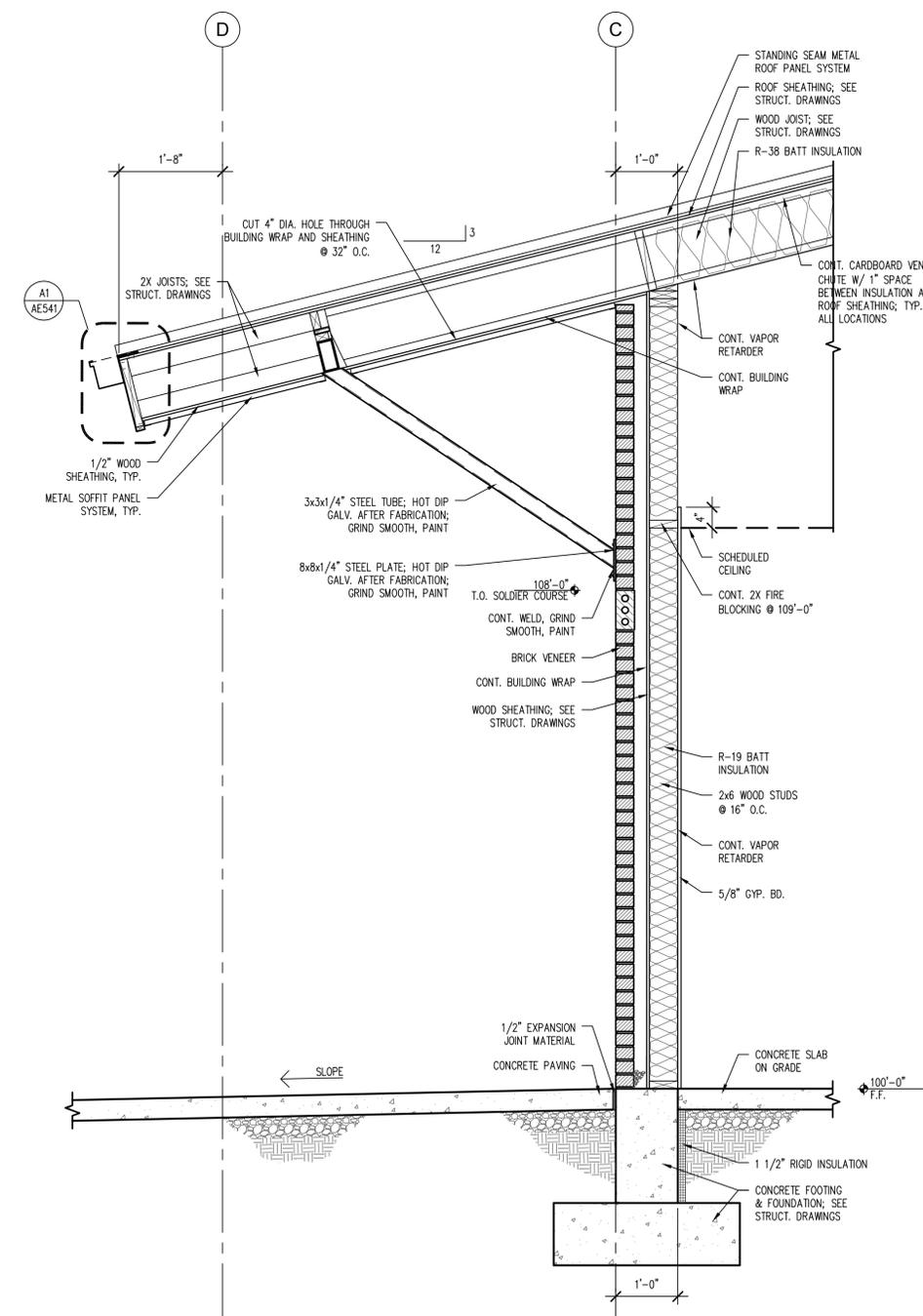
<b>DATE/REVISION</b>	<b>PROJECT #</b>
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**WALL  
SECTIONS**

**AE  
352**

GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR TYPE AND SIZE OF HEADER



**A2**  
**AE353** WALL SECTION  
 SCALE 3/4" = 1'-0"  
 W-08.DWG

CONSTRUCTION DOCUMENTS

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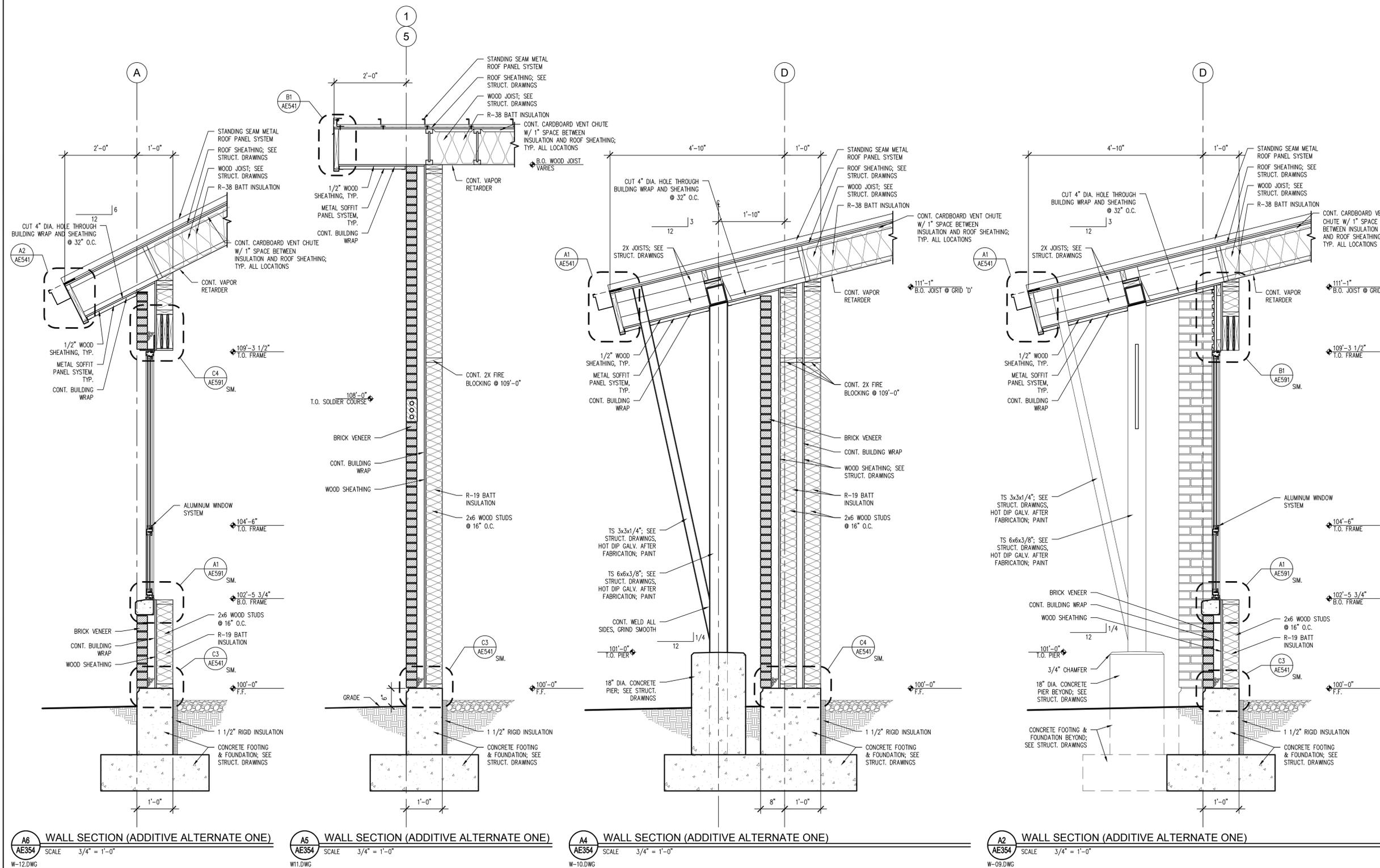
DATE/REVISION	PROJECT #
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WALL  
 SECTIONS

**AE**  
**353**

GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR TYPE AND SIZE OF HEADER



CONSTRUCTION DOCUMENTS

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WALL  
SECTIONS  
(ADDITIVE  
ALTERNATE  
ONE)

AE  
354



1-00 DWG

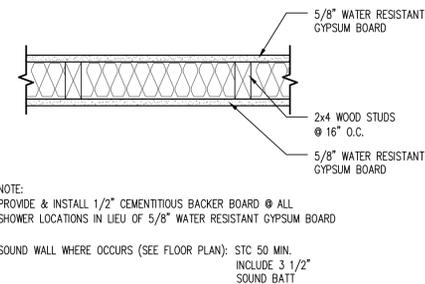
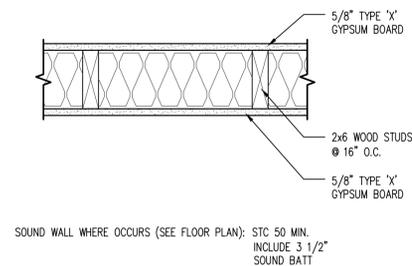
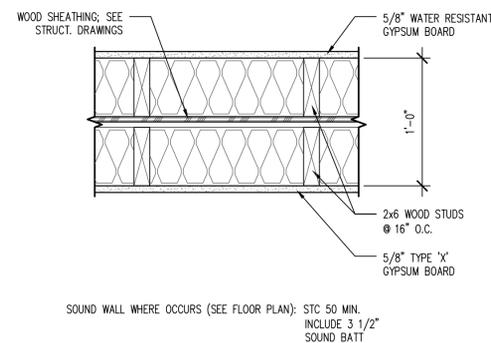
**A5** WALL TYPE - E (NOT USED)  
SCALE 1 1/2" = 1'-0"

**A4** WALL TYPE - D  
SCALE 1 1/2" = 1'-0"

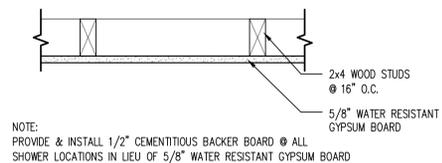
**A3** WALL TYPE - C  
SCALE 1 1/2" = 1'-0"

**A2** WALL TYPE - B  
SCALE 1 1/2" = 1'-0"

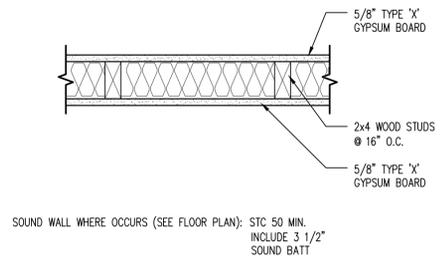
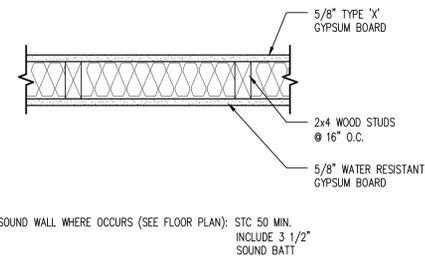
**A1** WALL TYPE - A  
SCALE 1 1/2" = 1'-0"



**B2** WALL TYPE - G  
SCALE 1 1/2" = 1'-0"



**B1** WALL TYPE - F  
SCALE 1 1/2" = 1'-0"



CONSTRUCTION DOCUMENTS

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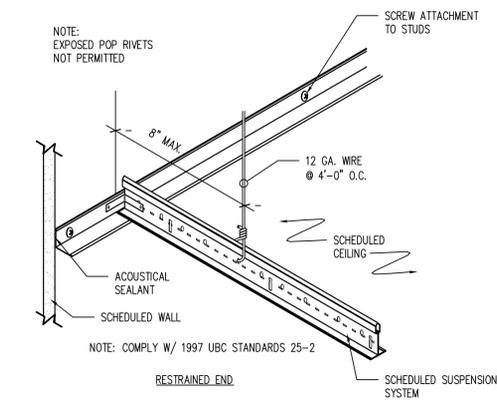


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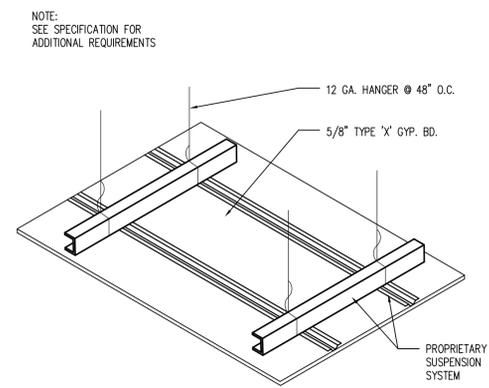
DATE/REVISION	PROJECT #
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WALL TYPES

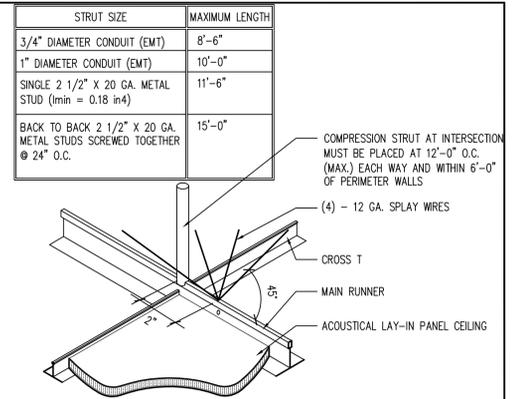
AE  
511



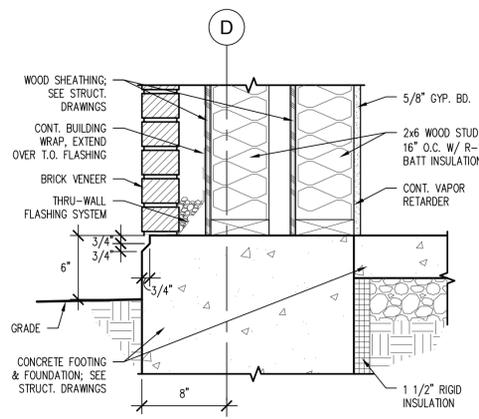
**D4** EDGE DETAIL @ ACOUSTICAL LAY-IN CEILING  
 AE541 SCALE N.T.S.



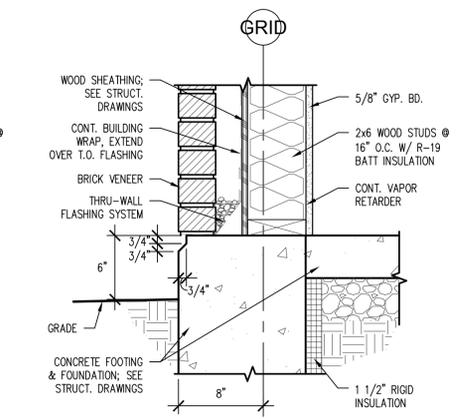
**D2** SUSPENDED GYP. BD. CEILING SYSTEM  
 AE541 SCALE N.T.S.



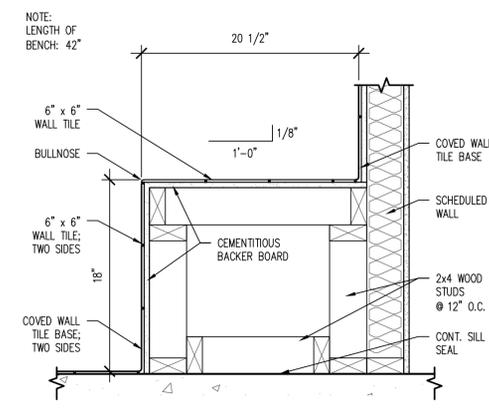
**D1** TYPICAL COMPRESSION STRUT  
 AE541 SCALE N.T.S.



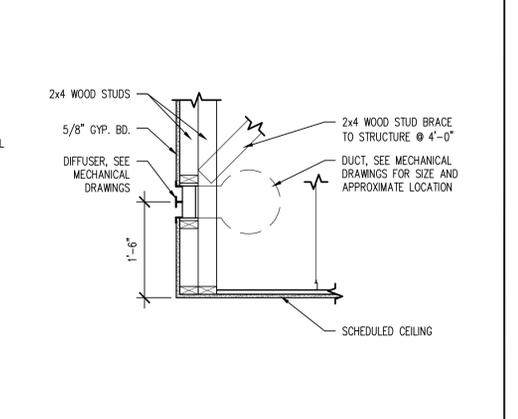
**C4** BASE OF WALL DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 4-07.DWG



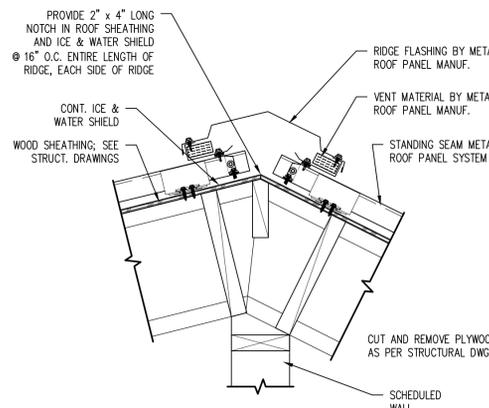
**C3** BASE OF WALL DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 4-06.DWG



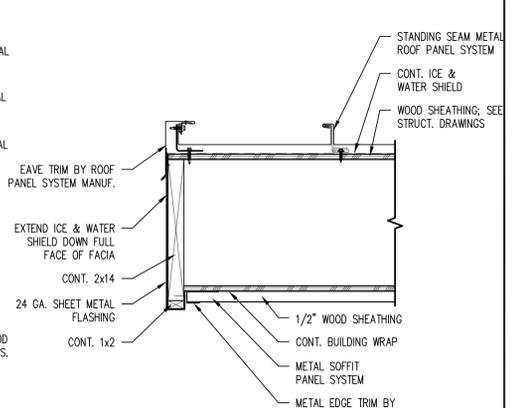
**C2** BENCH DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 2-04.DWG



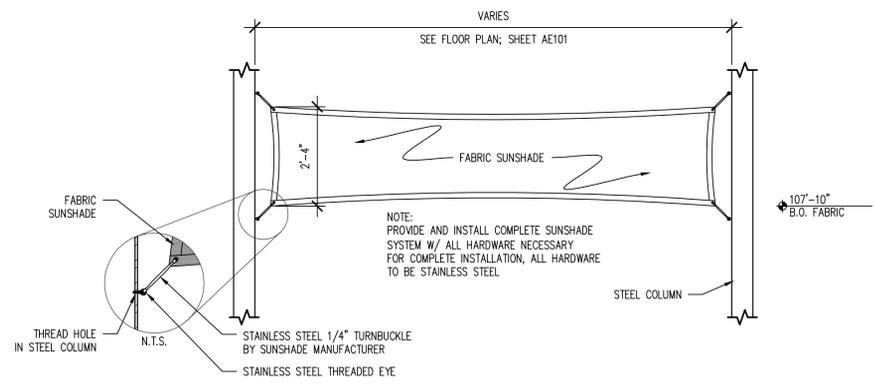
**C1** DIFFUSER DETAIL  
 AE541 SCALE 3/4" = 1'-0"  
 2-05.DWG



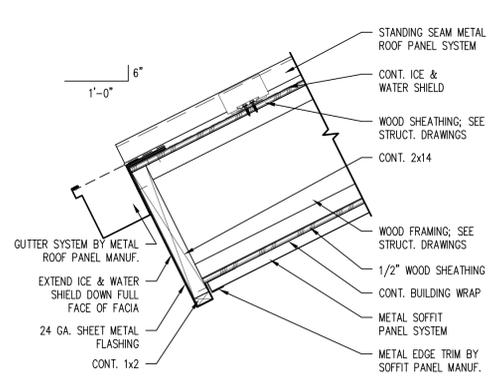
**B2** RIDGE DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 4-01.DWG



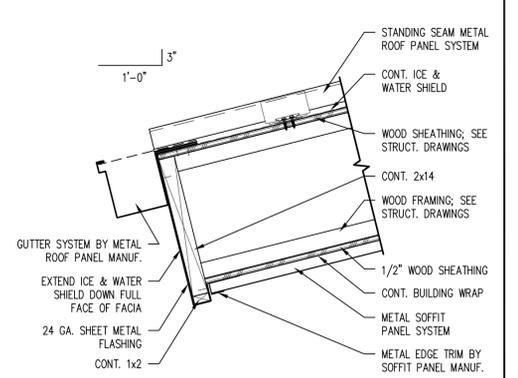
**B1** RAKE DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 4-04.DWG



**A4** FABRIC SUNSHADE SYSTEM DETAIL (OCCURS @ 5 LOCATIONS)  
 AE541 SCALE 1/2" = 1'-0"  
 4-05.DWG



**A2** EAVE DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 4-03.DWG



**A1** EAVE DETAIL  
 AE541 SCALE 1 1/2" = 1'-0"  
 4-02.DWG

CONSTRUCTION DOCUMENTS

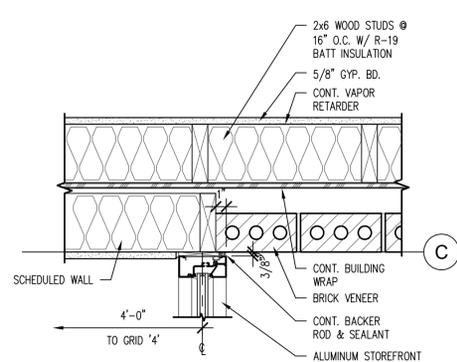
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JRCA  
 ARCHITECTS  
 577 South 200 East  
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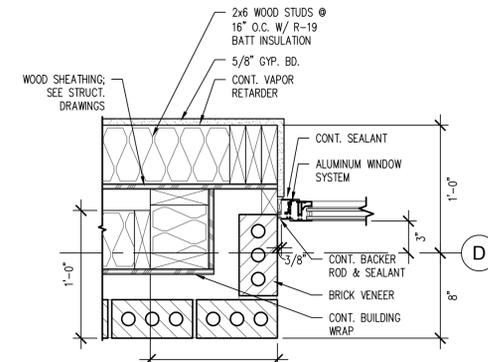
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INTERIOR & BUILDING DETAILS

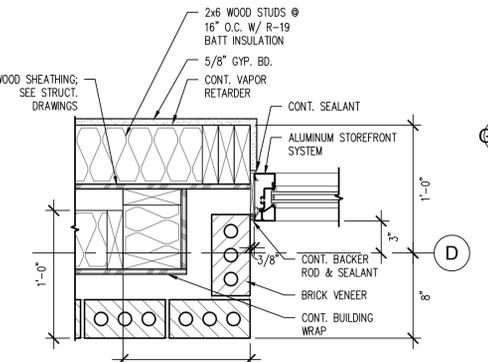
**AE 541**



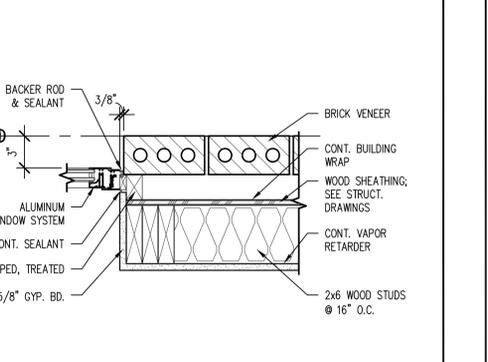
**D4 ALUMINUM STOREFRONT JAMB DETAIL**  
 AE591 SCALE 1 1/2" = 1'-0"  
 9-16.DWG



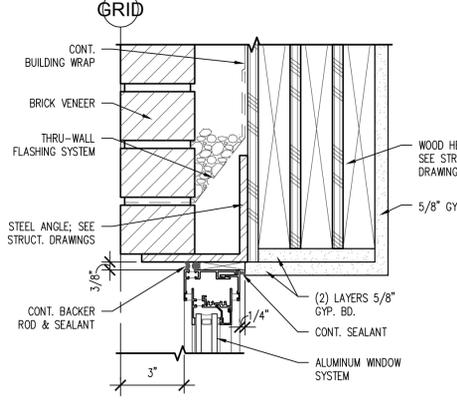
**D3 ALUMINUM WINDOW JAMB DETAIL**  
 AE591 SCALE 1 1/2" = 1'-0"  
 9-11.DWG



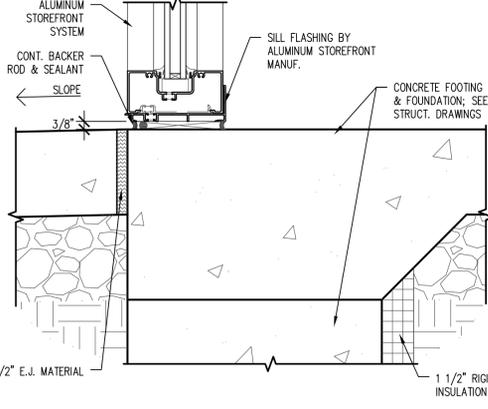
**D2 ALUMINUM STOREFRONT JAMB DETAIL**  
 AE591 SCALE 1 1/2" = 1'-0"  
 9-10.DWG



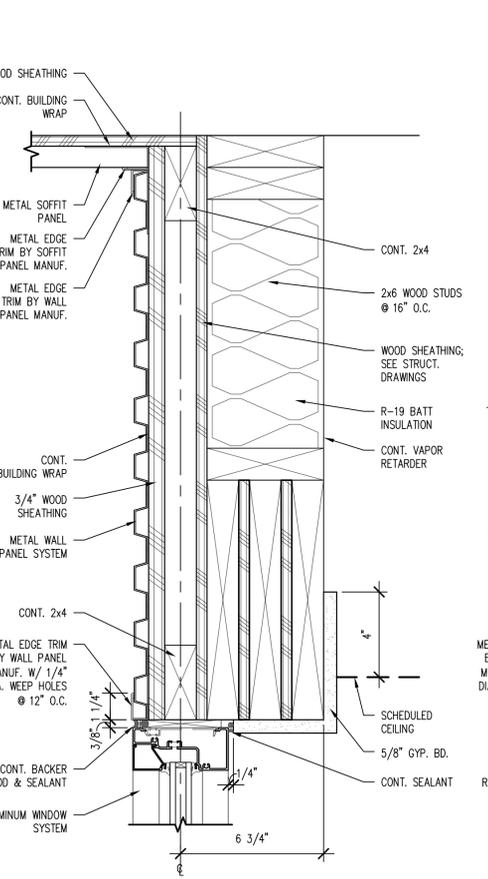
**D1 ALUMINUM WINDOW JAMB DETAIL**  
 AE591 SCALE 1 1/2" = 1'-0"  
 9-13.DWG



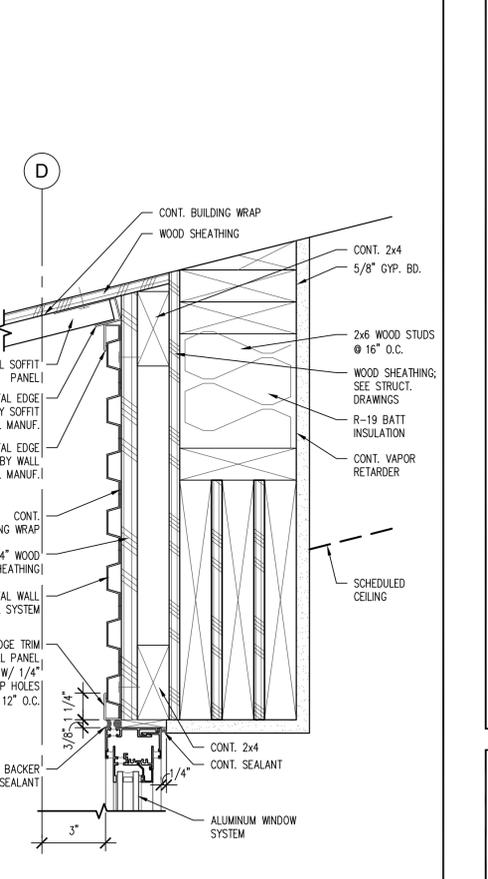
**C4 ALUMINUM WINDOW HEAD DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-04.DWG



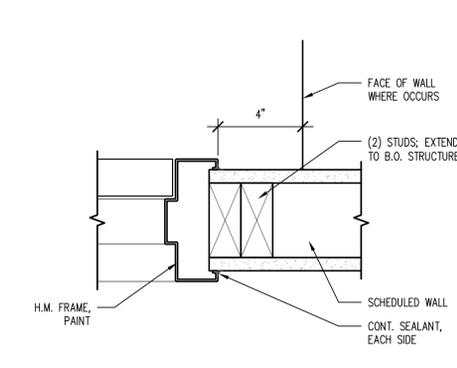
**C3 ALUMINUM STOREFRONT SILL DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-15.DWG



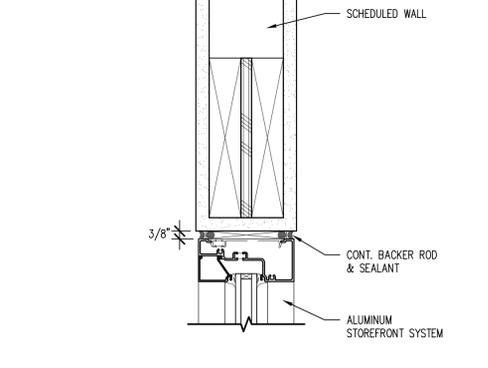
**B2 ALUMINUM STOREFRONT HEAD DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-03.DWG



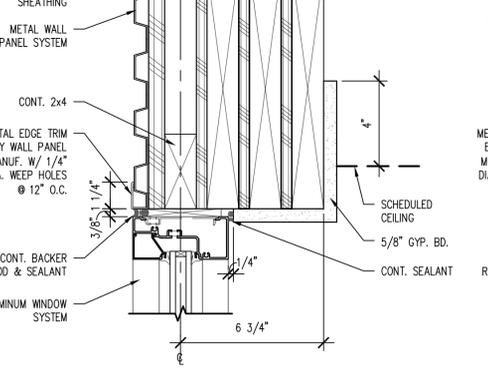
**B1 ALUMINUM WINDOW HEAD DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-02.DWG



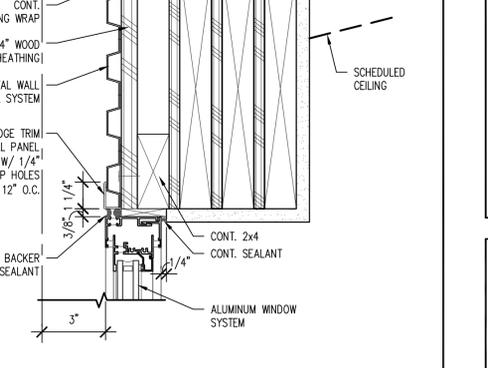
**B5 INTERIOR H.M. DOOR HEAD**  
 AE591 SCALE 3" = 1'-0"  
 9-08.DWG



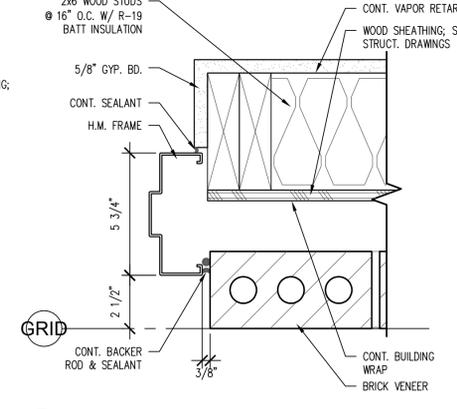
**B4 INTERIOR H.M. DOOR JAMB**  
 AE591 SCALE 3" = 1'-0"  
 9-09.DWG



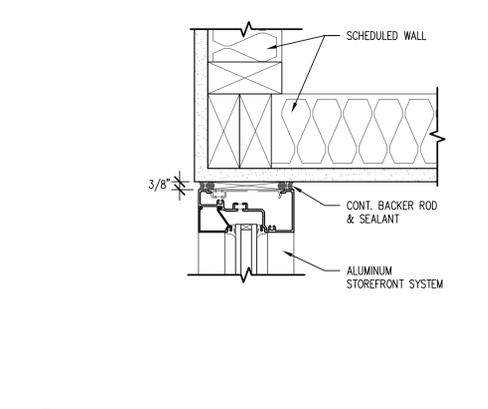
**B3 ALUMINUM STOREFRONT HEAD DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-06.DWG



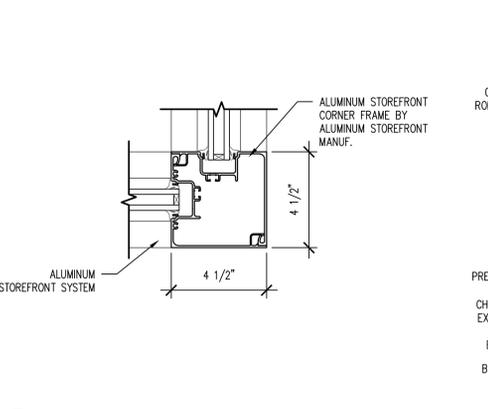
**B2 ALUMINUM STOREFRONT HEAD DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-03.DWG



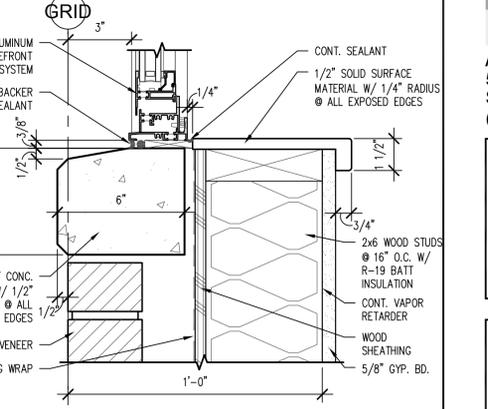
**A5 ALUMINUM WINDOW HEAD DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-12.DWG



**A4 H.M. FRAME JAMB DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-14.DWG



**A3 ALUMINUM STOREFRONT JAMB DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-07.DWG



**A2 ALUMINUM STOREFRONT JAMB DETAIL**  
 AE591 SCALE 3" = 1'-0"  
 9-05.DWG

CONSTRUCTION DOCUMENTS

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DOOR &  
 WINDOW  
 DETAILS

**AE  
 591**

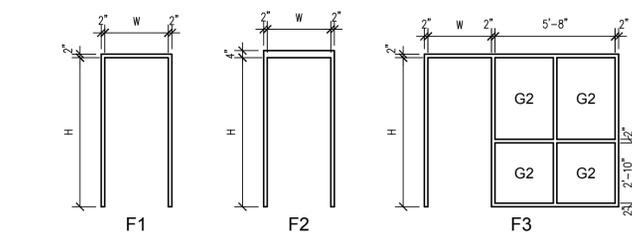
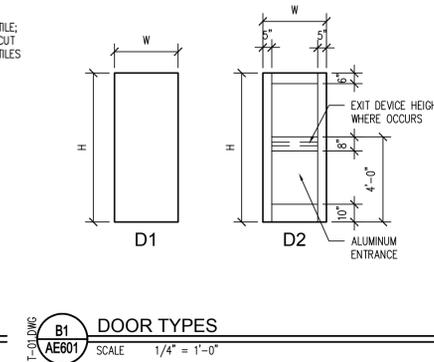
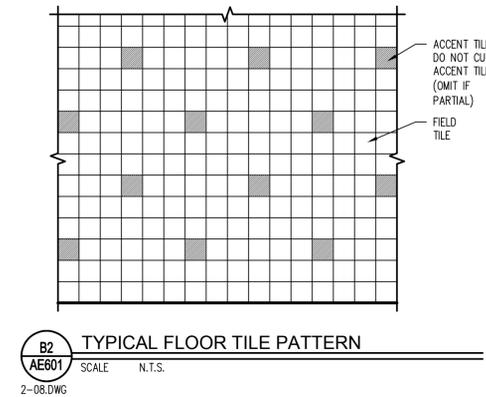
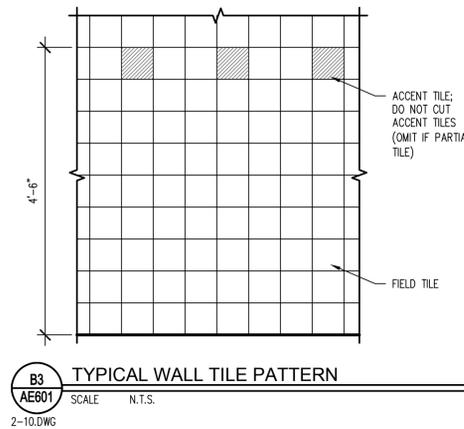
DOOR SCHEDULE													
DOOR	DOOR					FRAME					FIRE RATING	NOTES	
	SIZE	TYPE	MATL	FINISH	GLAZING	TYPE	MATL	FINISH	DETAIL AE591				
									HEAD	JAMB			THRSH
100A	3'-0" x 7'-0"	D1	HM	---	---	F2	HM	---	A4	A5	---	---	1
101A	3'-0" x 7'-0"	D1	HM	---	---	F2	HM	---	A4	A5	---	---	---
101B	3'-0" x 8'-0"	D2	AL	---	G2	---	AL	---	---	---	---	---	---
102A	3'-0" x 7'-0"	D1	WD	---	---	F3	HM	---	B5	B4	---	---	---
103A	3'-0" x 7'-0"	D1	WD	---	---	F3	HM	---	B5	B4	---	---	---
104A	3'-0" x 7'-0"	D1	WD	---	---	F3	HM	---	B5	B4	---	---	---
105A	3'-0" x 7'-0"	D1	WD	---	---	F1	HM	---	B5	B4	---	---	---
106A	3'-0" x 7'-0"	D1	WD	---	---	F1	HM	---	B5	B4	---	---	---
110A	3'-0" x 7'-0"	D1	WD	---	---	F1	HM	---	B5	B4	---	---	---
111A	3'-0" x 7'-0"	D1	WD	---	---	F1	HM	---	B5	B4	---	---	---
112A	3'-0" x 8'-0"	D2	AL	---	G4	---	AL	---	---	---	---	---	---

NOTES:  
1. DOOR 100A AS PART OF ADDITIVE ALTERNATE ONE

ROOM FINISH SCHEDULE										
ROOM NO	ROOM NAME	FLOOR	BASE	WALLS				NOTES		
				N	E	S	W			
100	UNASSIGNED	---	---	---	---	---	---	---		
101	OPEN OFFICE	F1/F2	B1	W2	W2	W2	W2	---		
102	OFFICE	F1	B1	W2	W2	W2	W2	---		
103	OFFICE	F1	B1	W2	W2	W2	W2	---		
104	CONFERENCE	F1	B1	W2	W2	W2	W2	---		
105	ELECTRICAL	F5	B1	W2	W2	W2	W2	---		
106	MECHANICAL	F5	B1	W2	W2	W2	W2	---		
108	HALL	F2	B1	W2	W2	W2	W2	---		
110	WOMENS	F3	B2	W1	W1	W1	W1	1		
111	MENS	F3	B2	W1	W1	W1	W1	1		
112	VESTIBULE	F4	B1	W2	W2	W2	W2	---		

NOTES:  
1. ALL WALLS IN ROOMS 110 & 111 SHALL BE TYPE W1

ROOM FINISH LEGEND	
<b>FLOOR FINISH</b>	
F1	CARPET
F2	13" x 13" LINOLEUM TILE
F3	2" x 2" CERAMIC MOSAIC FLOOR TILE; (SEE B2/AE601 FOR TYP. FLOOR TILE PATTERN) DEPRESS SLAB 1 1/2"; SEAL GROUT
F4	ENTRY CARPET
F5	SEALED CONCRETE
<b>BASE FINISH</b>	
B1	4" RUBBER BASE
B2	6" x 6" COVED CERAMIC TILE BASE
<b>WALL FINISH</b>	
W1	6" x 6" CERAMIC WALL TILE; FULL HEIGHT OF WALL (SEE B3/AE601 FOR TYP. WALL TILE PATTERN)
W2	PAINTED SURFACE
<b>GLAZING SCHEDULE</b>	
G1	1/4" CLEAR
G2	1/4" CLEAR - TEMPERED
G3	1" INSULATED
G4	1" INSULATED - TEMPERED



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SCHEDULES /  
DOOR & FRAME  
TYPES

AE  
601

# GENERAL STRUCTURAL NOTES:

## I. GENERAL:

- THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS SHALL BE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
- REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR STRUCTURAL DRAWINGS. WHERE THE STRUCTURAL NOTES, DRAWINGS OR SPECIFICATIONS DISAGREE, THE CONTRACTOR MAY REQUEST A CLARIFICATION. OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL.
- CONTRACTOR SHALL COMPARE ALL DIMENSIONS AND CONDITIONS ON CONTRACT DOCUMENTS AND AT THE SITE. ANY OMISSION OR CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. IN CASE OF ANY CONFLICT FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY ARCHITECT/ENGINEER.
- SEE THE ARCHITECTURAL DRAWINGS FOR DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, RECESSES, DEPRESSIONS, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND ADJACENT PROPERTIES.
- CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL PORTIONS OF THE BUILDING UNTIL THE ENTIRE STRUCTURE OF THE BUILDING IS COMPLETE.
- OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER'S FIELD REPRESENTATIVES SHALL NOT BE CONSIDERED AS INSPECTION OR APPROVAL OF CONSTRUCTION.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN UTAH.

## II. DESIGN CRITERIA:

- BUILDING CODE: 2006 INTERNATIONAL BUILDING CODE (IBC) w/ AMENDMENTS
- LOADINGS:
  - ROOF SNOW LOAD = 30 PSF DRIFTING 4 w/ IMPORTANT FACTOR PER IBC
  - BASIC WIND LOAD = 30 MPH ZONE - EXPOSURE C
  - SEISMIC DESIGN DATA: SDC-D2, S<sub>s</sub>=1.088 S<sub>10</sub> 368.11R+6.5, F<sub>a</sub>=1.5 WOOD SHEAR WALL SYSTEM, V<sub>101</sub>442W, C<sub>a</sub>=0.14, SITE CLASS: D EQUIVALENT LATERAL FORCE PROCEDURE

## C. FOUNDATION:

- ALL EXTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 30" BELOW LOWEST ADJACENT FINISH FLOOR OR FINISH GRADE ONTO UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL (SEE SOIL REPORT) AND BE DESIGNED USING AN ALLOWABLE BEARING CAPACITY OF UP TO 2000 PSF. INTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 18" BELOW LOWEST ADJACENT FINISH FLOOR OR FINISH GRADE.
- ALL FOOTING EXCAVATIONS ARE TO BE REVIEWED BY A QUALIFIED GEO-TECHNICAL REPRESENTATIVE WHO IS FAMILIAR WITH THE ABOVE REFERENCED SOILS REPORT, TO VERIFY THE SUITABILITY OF THE DESIGN BEARING PRESSURE USED.
- SOIL REPORT: "AMEC" JOB # 2-817-004015.

## III. CONCRETE:

- ALL MATERIALS SHALL COMPLY WITH ACI 318 AND ACI 347 PUBLICATIONS AND APPLICABLE ASTM PUBLICATIONS.
- CONCRETE MATERIAL PROPERTIES: 28-DAY COMPRESSIVE STRENGTHS ARE TO BE 3000 PSI TYPICAL UNLESS NOTED OTHERWISE. DESIGN BASED ON 2500 PSI. CONCRETE SLAB ON GRADE TO BE 4000 PSI.
- CAST-IN-PLACE CONCRETE:
  - SPACING OR CONSTRUCTION JOINTS OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
  - PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE UNLESS NOTED OTHERWISE.
  - PROVIDE CLASS B LAP SPLICES FOR ALL REINFORCING UNLESS NOTED OTHERWISE.
  - PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS AT ALL EXPOSED SLAB ON GRADE AREAS.

## IV. REINFORCING STEEL:

- ALL BARS #4 AND LARGER TO BE ASTM A 615 GRADE 60. ALL #3 AND #5 BARS TO BE ASTM A 615 GRADE 40. DETAILED FABRICATED AND ERECTED IN ACCORDANCE WITH ACI-318, LATEST ADOPTION.
- ALL REINFORCING STEEL SHALL BE BENT, DETAILED AND CHAIRED AS PER "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES".
- WELDED WIRE FABRIC TO BE IN ACCORDANCE WITH ASTM A 185.
- ALL BARS INDICATED ON THE PLANS TO BE WELDED SHALL CONFORM TO ASTM A 106 (GRADE 60).
- CONCRETE COVER REQUIREMENTS FOR DEFORMED BARR REINFORCING STEEL SHALL COMPLY WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE".
  - CAST-IN-PLACE CONCRETE:
    - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
    - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER: 2"
    - #5 BARS AND SMALLER: 1-1/2"
  - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS: #11 BARS OR SMALLER: 3/4" BEAMS, COLUMNS, PRIMARY REINFORCING TIES, STIRRUPS, SPIRALS: 1-1/2"
- DETAILING: SUBMIT PLACING DRAWINGS PER ACI DETAILING MANUAL, ACI 318-06. FABRICATE ONLY AFTER REVIEW AND APPROVAL. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY SHOWN ON DRAWINGS.
  - LAP SPLICE LENGTHS SHALL BE AS FOLLOWS: 30 BAR DIAMETER FOR #3 AND #4 BARS 40 BAR DIAMETER FOR #5 THROUGH #8 BARS DO NOT SPLICE STIRRUPS AND TIES DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.

## VI. STRUCTURAL AND MISCELLANEOUS STEEL:

- MATERIAL PROPERTIES:
  - ALL SHAPES, PLATES, ANGLES, AND CHANNELS TO BE ASTM A-36 UNLESS NOTED OTHERWISE.
  - ALL WF SHAPES WEIGHING 84 POUNDS PER LINEAR FOOT OR LESS TO BE ASTM A 572, GRADE 50. ALL WF SHAPES WEIGHING MORE THAN 84 POUNDS PER LINEAR FOOT TO BE ASTM A 572, GRADE 58.
  - SQUARE OR RECTANGULAR TUBES TO BE ASTM A 500, GRADE B, F<sub>y</sub> = 46 KSI.

## 4. ALL STEEL TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST ADOPTION.

## B. WELDING:

- FOR STRUCTURAL STEEL TO BE IN ACCORDANCE WITH AWS REQUIREMENTS FOR E70XX ELECTRODES E60XX MAY BE USED FOR WELDING STEEL FLOOR AND ROOF DECKS.
- MINIMUM WELDS: ALL INTERSECTING STEEL SHAPES THAT ARE NOT BOLTED SHALL BE CONNECTED BY A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. FILLET WELD SIZES THAT ARE NOT SHOWN SHALL BE 1/8" LESS THAN THE THINNESS OF THE CONNECTED PARTS FOR THICKNESS 1/4" AND LARGER. FILLET WELDS ON PLATES LESS THAN 1/4" SHALL BE OF THE SAME SIZE AS THE THINNESS OF THE CONNECTED PART.

## C. BOLTS:

- ALL BOLTS TO BE 3/4" DIAMETER ASTM A 325-N UNLESS NOTED OTHERWISE. A325N BOLTS SHALL BE USED IN CONNECTIONS FOR SIMPLE SPAN FRAMING AND BEAMS TO BEARING PLATE CONNECTIONS. TIGHTEN BOLTS TO SNUG TIGHT CONDITION.
- BOLTS, NUTS AND WASHERS SHALL NOT BE REUSED.
- ANCHOR BOLTS SHALL BE ASTM A 307 OR A 36.
- EXPANSION BOLTS ARE 3/4" DIAMETER RAMSET "DYNABOLTS" INSTALLED IN ACCORDANCE WITH ICBO #1312. MINIMUM EMBEDMENT TO BE 3 1/2" IN CONCRETE AND 5" IN SOLID GROUTED MASONRY. ALL CONCRETE OR MASONRY SHALL BE AT ITS SPECIFIED DESIGN STRENGTH AT THE TIME OF INSTALLATION.

## VII. WOOD:

### A. DIMENSIONAL LUMBER: ALL TO BE GRADE STAMPED PER WCLB RULES.

- ALL JOISTS, BEAMS, PLATES, HEADERS AND OTHER LUMBER TO BE DFI/LARCH #2 UNLESS OTHERWISE NOTED.
- 2" X 4 SUB-FURLINGS TO BE DFI/LARCH NO.1.
- 2" X 6 SUB-FURLINGS TO BE DFI/LARCH NO.1.
- FURLINGS TO BE DFI DENSE #1.
- 4X AND 6X POSTS TO BE DFI/LARCH NO.1.
- WALL STUDS TO BE DFI/LARCH #2 GRADE OR BETTER.

### B. GLU-LAMS:

- TO BE GRADE STAMPED PER AITC, DFI/LARCH COMBINATION 24F-V8 FOR CONTINUOUS SPANS AND DFI/LARCH COMBINATION 24F-V4 FOR SIMPLE SPANS. GLUED WITH WATERPROOF GLUE.

### C. PLYWOOD:

- ROOF SHEATHING TO BE STD 5/8" C-D WITH EXTERIOR GLUE, IDENTIFICATION INDEX 32/16. NAIL WITH 8d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- EXTERIOR WALLS TO BE STD 1/2" MIN. 4 PLY APA ENGINEERED WOOD ASSOCIATION EXPOSURE 1 OR EXTERIOR GRADE C-D RATING 24/0. PLYWOOD SHALL BE INSTALLED W/C OR BETTER SIDE OUT. NAIL WITH 8d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR SHEAR WALL SHEATHING AND NAILING.

### D. PLYWOOD WEB JOISTS:

- TO BE DESIGNED, DETAILED AND FABRICATED BY TRUS-JOIST AND HAVE THE APPROVAL OF ICBO.
- JOISTS ARE TO BE DESIGNED FOR THE LIVE LOADS LISTED ABOVE AND FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 15 PSF.
- DESIGN JOISTS FOR TWICE THE WEIGHT OF MECHANICAL UNITS INDICATED ON THE PLANS IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION TECHNICAL NOTE #9. REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL UNITS REQUIRED.

### E. SPECIAL TREATMENTS (AMERICAN WOOD PRESERVERS INSTITUTE STANDARDS):

- ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL: PRESERVE TREAT WITH WOLMAN COA PRESERVATIVE OR EQUAL AS APPROVED BY THE ARCHITECT.
- FIRE RETARDANT: PRESERVE TREAT WITH DRICON OR EQUAL AS APPROVED THE ARCHITECT.
- ALL FASTENERS TO PRESERVATIVE TREATED WOOD SHALL MEET THE REQUIREMENTS OF 1801304.95.

### F. WOOD NAILING SCHEDULE:

- JOIST TO BILL OR GIRDER TOENAIL 3-8d
- BRIDGING TO JOIST TOENAIL EACH END 2-8d
- 1"x6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL 2-8d
- WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL 3-8d
- SUBFLOOR TO JOIST OR GIRDER BLIND AND FACE NAIL 2-16d
- SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 2-16d
- TOP PLATE TO STUD END NAIL 2-16d
- STUD TO SOLE PLATE TOENAIL 4-8d OR FACE NAIL 2-16d
- DOUBLE STUDS FACE NAIL 16d @ 24" O.C.
- DOUBLED TOP PLATES FACE NAIL 16d @ 16" O.C.
- TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL 2-16d
- CONTINUOUS HEADER 2 PIECES 16d @ 16" O.C. ALONG 2 EDGES
- CEILING JOISTS TO PLATE TOENAIL 3-8d
- CONTINUOUS HEADER TO STUD TOENAIL 4-8d
- CEILING JOIST, LAPS OVER PARTITIONS FACE NAIL 3-16d
- CEILING JOIST TO PARALLEL PARTERS FACE NAIL 3-16d
- PARTER TO PLATE TOENAIL 4-8d
- BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8d
- 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL 2-8d
- WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL 3-8d
- BUILT UP CORNER STUDS 16d @ 24" O.C.
- BUILT-UP GIRDERS AND BEAMS 10d @ 32" O.C. AT TOP AND BOTTOM AND STAGGERED 2-20d AT EACH END 4 SPLICE
- PLANKS 2-16d AT EACH BEARING

## VIII. MISCELLANEOUS:

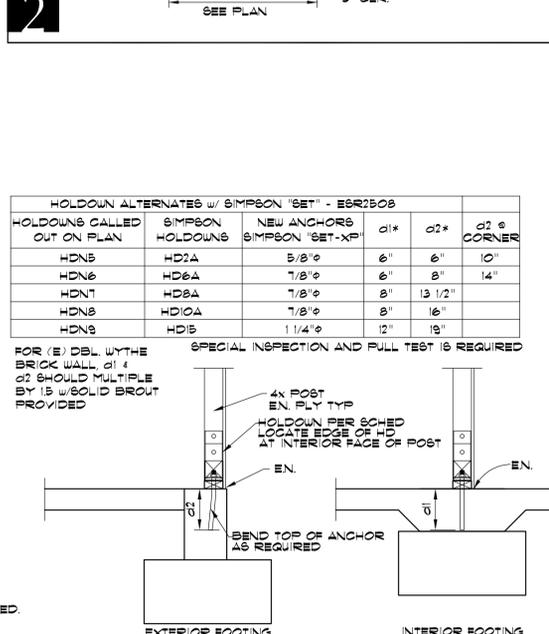
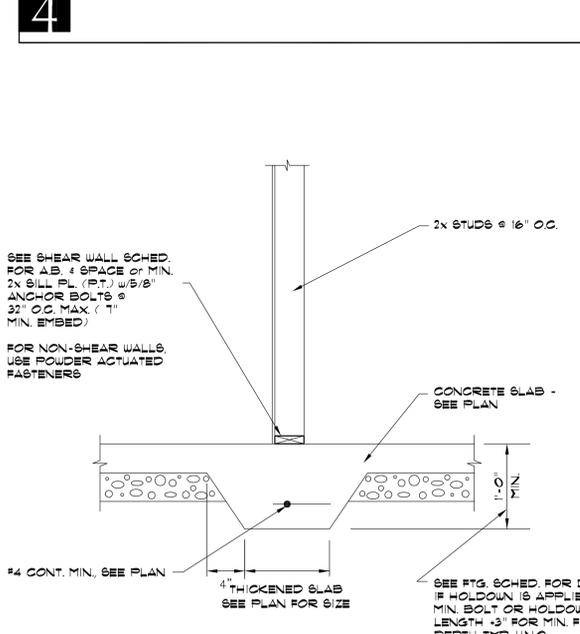
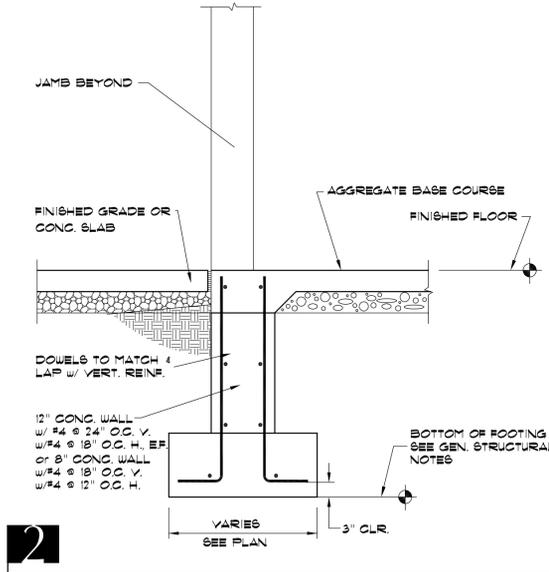
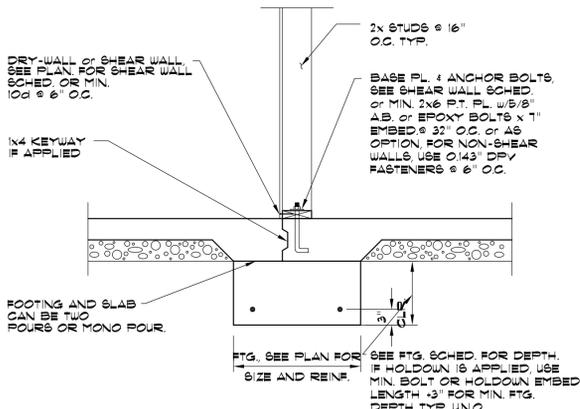
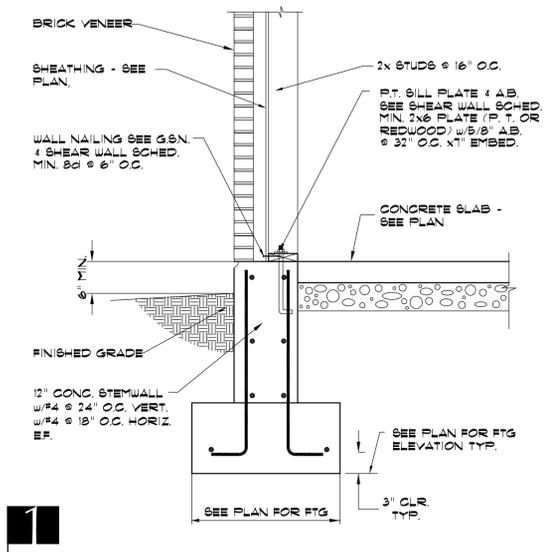
- GYPSON WALLBOARD: FOR SHEAR WALLS TO BE STANDARD 1/2" GYPSON WALLBOARD. NAIL WITH 5D COOLER NAILS AT 1" O.C. TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.
- STUCCO: FOR SHEAR WALLS TO BE STANDARD 7/8" PORTLAND CEMENT PLASTER ON EXPANDED METAL OR WOVEN WIRE LATH.

NAIL WITH NO.11 GAGE, 1 1/2" LONG, 7/16" HEAD NAILS OR NO.16 GAGE STAPLES WITH 7/8" LONG LEGS AT 6" O.C. TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.

IX. SPECIAL INSPECTION: SPECIAL INSPECTION IS NOT REQUIRED IN ACCORDANCE WITH IBC SECTION 1704.

X. BRICK AND/OR STONE VENEER NOTES:

- TO WOOD STUD WALLS: VENEER SHALL BE ATTACHED TO THE WOOD STUDS WITH A 1" MINIMUM WIDE X 22 GAUGE GALVANIZED CORRUGATED BRICK TIE SPACED AT A MAXIMUM OF 16" O.C. IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS. ANCHOR TIES SHALL EXTEND TO A NO. 9 GAUGE HORIZONTAL JOINT REINFORCEMENT WIRE IN THE VENEER WHICH SHALL BE CONTINUOUS AND SHALL BE PLACED AT 16" O.C. MAXIMUM AT THE CENTER OF THE VENEER. CORRUGATED METAL TIES SHALL FORM A 180-DEGREE HOOK AROUND THE NO. 9 GAUGE WIRE USED AS HORIZONTAL JOINT REINFORCEMENT IN THE VENEER. SPOT BEDDING AT THE CORRUGATED TIES SHALL BE OF CEMENT MORTAR ENTIRELY SURROUNDING THE TIES. ATTACH TIES TO STUDS WITH A MINIMUM #10 X 1 1/2" WOOD SCREW.
- TO CONCRETE WALLS: 22 GAUGE GALVANIZED DOVETAIL SLOTS SHALL BE INSTALLED VERTICALLY IN CONCRETE AT 16" O.C. VENEER SHALL BE ATTACHED TO THE CONCRETE WITH 1" X 22 GAUGE CORRUGATED GALVANIZED DOVETAIL BRICK ANCHORS OR 3/16" DIAMETER GALVANIZED DOVETAIL TRIANGLE WIRES SPACED AT A MAXIMUM OF 16" O.C. IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS. ANCHOR TIES SHALL EXTEND TO A NO. 9 GAUGE HORIZONTAL JOINT REINFORCEMENT WIRE IN THE VENEER WHICH SHALL BE CONTINUOUS AND SHALL BE PLACED AT 16" O.C. MAXIMUM AT THE CENTER OF THE VENEER.
- OTHER METHODS OF ATTACHMENT MAY BE USED AFTER WRITTEN ACCEPTANCE BY THE ARCHITECT AND STRUCTURAL ENGINEER.



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**LICENSED PROFESSIONAL ENGINEER**  
No. 260129  
HUA SHEN  
STATE OF UTAH

CONSTRUCTION DOCUMENT

**GSLEP**  
**ADMINISTRATION BUILDING**  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

**JRCA**  
**ARCHITECTS**  
577 South 200 East  
Salt Lake City, Utah 84111  
(801) 533-2100 fax: (801) 533-2101 jrca@esign.com

DATE/REVISION PROJECT #  
4 - 8 - 10 SEI0026  
05 - 24 - 10 REV. 1

SHEET DESCRIPTION: **GENERAL STRUCTURAL NOTES & DETAILS**

SHEET NO. **S 101**

XXXX 2x6 STUDS @ 16" O.C.  
 XXXX BRICK VENEER

HOLDOWN SCHEDULE			
MARK	TYPE	END STUD ANCHOR BOL.	LOCATION
HDN1	MS1AT	(2) 2x6 STUDS MIN.	FLOOR TO FLOOR
HDN2	MS1EO	(2) 2x6 STUDS MIN.	FLOOR TO FLOOR
HDN3	DBL. MS1EO	(4) 2x6 STUDS MIN. OF 8x6	FLOOR TO FLOOR
HDN4	HDB	(4) 2x6 STUDS MIN. OF 8x6	FLOOR TO FLOOR
HDN5	SH16	(2) 2x6 STUDS MIN.	FOUNDATION
HDN6	SH14	(2) 2x6 STUDS MIN.	FOUNDATION
HDN7	SH12	(2) 2x6 STUDS MIN.	FOUNDATION
HDN8	HD1A	(2) 2x6 STUDS MIN.	FOUNDATION
HDN9	HDB	(2) 2x6 STUDS MIN.	FOUNDATION

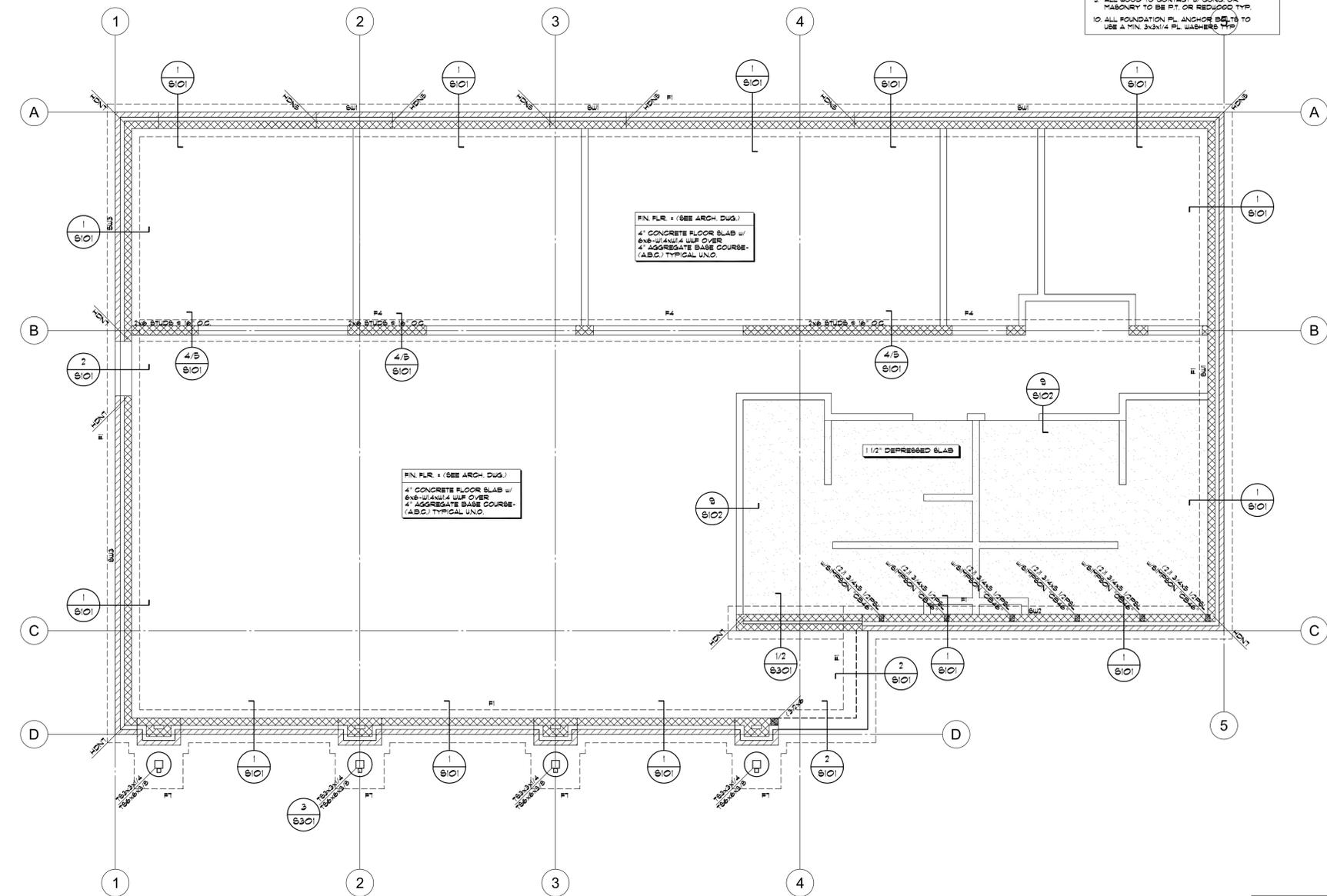
NOTE: IF REM. JOINT IS USED HDN5 SHALL BE STANDARD. HDN6 SHALL BE STANDARD. SAME SIZE EPOXY BOLTS CAN BE USED AS SUBSTITUTION OF SH16 TYPE. SEE SIMPSON'S FOR MIN. EMBEDDED LENGTH.

- FOUNDATION PLAN NOTES:**
- SEE GENERAL STRUCTURAL NOTES SHEET AND STANDARD CONCRETE DETAIL SHEET FOR:
    - GENERAL STRUCTURAL NOTES
    - TYPICAL EXCAVATION ADJACENT TO FOOTING
    - TYPICAL SLAB JOINT DETAILS
    - TYPICAL STEPPED FOOTING
  - US - DENOTES CONCRETE WALL STEP
  - FI - DENOTES FOOTING MARK - SEE FOOTING SCHEDULE
  - K.C.J. - DENOTES KEYED CONTR. JOINT - SEE STANDARD DETAIL
  - C.J. - DENOTES CONTROL JOINT - SEE STANDARD DETAIL
  - F-1-1-1 - DENOTES FOOTING STEP, SEE DETAIL TYPICAL
  - CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS. SLAB SLOPES & DEPRESSIONS NOT NOTED.
  - ALL SLABS ON GRADE ARE TO BE JOINTED AT NO MORE THAN 15'-0" EACH WAY USING JOINTS PER STANDARD DETAIL. IN ADDITION, NO SECTION OF CONCRETE SHALL HAVE AN ASPECT RATIO OF GREATER THAN 1:1.1. PROVIDE (2) 4" x 4" TIE-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB BARS PER ABOVE. SUBMIT COMPLETE JOINT LAYOUT PLAN TO THE ARCHITECT FOR PRIOR REVIEW.
  - ALL WOOD TO CONTACT W/ CONC. OR REASON TO BE P.T. OR REDWOOD TYP.
  - ALL FOUNDATION PL. ANCHORS SHALL BE TO USE A MIN. 3/4" PL. WASHERS TYP.

- CONCRETE POUR NOTES:**
- VERIFY FTG. STEP LOCATIONS AND HEIGHT IN FIELD PRIOR TO FORMING FOOTINGS. MAKE FTG. REBAR CONTINUOUS THROUGH FTGS. WITH BENT BARS AT CORNERS. LAP BARS 40 BAR DIAMETERS AT SPLICES AND TIE.
  - ACCURATELY LOCATE ANCHOR BOLTS AND HOLDDOWNS FROM THE PLAN AND VERIFY PRIOR TO PLACING CONCRETE.
  - DO NOT POUR ANY CONCRETE UNTIL THE FORMS ARE ADEQUATELY BOLSTERED AND SUPPORTED AND ALL REBAR IS IN PLACE AND SECURED.
  - DO NOT PERMIT FIN. GRADE TO COME CLOSER THAN 6" TO TOP OF CONCRETE.

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**PROFESSIONAL ENGINEER**  
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 HUA SHEN  
 STATE OF UTAH



**FOUNDATION PLAN-BASE BID**  
 SCALE 1/4" = 1'-0"

BASE BID: PHASE I IS BUILT ONLY  
 ALTERNATIVE: PHASE I IS BUILT RIGHT WITH PHASE II

**NUMBER OF KING STUDS:**  
 ONE KING STUD FOR OPENING 2'-0" TO 5'-0"  
 TWO KING STUDS FOR OPENING 5'-0" TO 10'-0"  
 THREE KING STUDS FOR OPENING 10'-0" TO 15'-0"  
 FOUR KING STUDS FOR OPENING 15'-0" TO 20'-0"

**NOTE ON EPOXY BOLTS (IF APPLY):**  
 ALL EPOXY BOLTS ARE TO BE SIMPSON  
 SET HIGH STRENGTH EPOXY AS  
 PER (IBC/CC CODE) ER-1508  
 THE INSTALLING REQUIREMENT FOR EPOXY BOLTS  
 AND/OR REBAR DOVELS ARE AS FOLLOWS:  
 DIAMETER/DRILL DIA/EMBED DEPTH/EDGE DIST./SPACING DIST.  
 1/2" / 3/8" / 4 1/4" / 1 3/4" / 6" @ 3'-0"  
 5/8" / 3/4" / 5" / 1 3/4" / 1'-0"  
 3/4" / 7/8" / 6 3/4" / 1 3/4" / 1'-0"

FOOTING SCHEDULE			
BASED ON SOIL BEARING = 1000 PSF			
SEE SOIL REPORT			
MARK	SIZE	REINFORCING	REMARKS
F1	2'-0" x CONT. x 12"	(2) #4 CONT.	
F2	2'-6" x CONT. x 12"	(3) #4 CONT.	
F3	3'-0" x CONT. x 12"	(3) #4 CONT.	
F4	1'-4" x CONT. x 12"	(1) #4 CONT.	THICKENED SLAB
F5	2'-0" x CONT. x 12"	(2) #4 CONT.	THICKENED SLAB
F6	2'-6" BQ. x 12"	(2) #5 EW.	
F7	3'-0" BQ. x 12"	(3) #5 EW.	
F8	3'-6" BQ. x 12"	(4) #5 EW.	
F9	4'-0" BQ. x 12"	(4) #5 EW.	
F10	4'-6" BQ. x 12"	(5) #5 EW.	
F11	5'-0" BQ. x 12"	(5) #5 EW.	
F12	5'-6" BQ. x 13"	(6) #5 EW.	
F13	6'-0" BQ. x 13"	(6) #5 EW.	
F14	7'-0" BQ. x 14"	(6) #6 EW.	

CONSTRUCTION DOCUMENT

**GSLEP**  
**ADMINISTRATION BUILDING**  
 DIVISION OF WILDLIFE RESOURCES  
 DFCM PROJECT #09259520  
 HOOPER, UTAH

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DATE/REVISION	PROJECT #
4 · 8 · 10	SEI0026
05 · 24 · 10	REV. I

SHEET DESCRIPTION:  
**FOOTING & FOUNDATION PLAN**

SHEET NO.  
**S201**  
**BASE BID**

AutoCAD Version: 13.24  
 April 08, 10:06 AM, 2010  
 Drawing: S:\Projects\09259520\09259520.dwg (P.04)

XXXX 2x6 STUDS @ 16" O.C.  
 XXXX BRICK VENEER

HOLDOWN SCHEDULE			
MARK	TYPE	END STUD	ANCHOR BOLT
HDN1	MS1AT	(2) 2x6 STUDS MIN.	.. FLOOR TO FLOOR
HDN2	MS1EO	(2) 2x6 STUDS MIN.	.. FLOOR TO FLOOR
HDN3	DBL. MS1EO	(4) 2x6 STUDS MIN. OF 8x6	.. FLOOR TO FLOOR
HDN4	HDS	(2) 2x6 STUDS MIN.	.. FLOOR TO FLOOR
HDN5	SHOULDER	(2) 2x6 STUDS MIN.	.. 80TB16 FOUNDATION
HDN6	SHOULDER	(2) 2x6 STUDS MIN.	.. 80TB28 FOUNDATION
HDN7	SHOULDER	(2) 2x6 STUDS MIN.	.. 80TB28 FOUNDATION
HDN8	HDCA	(2) 2x6 STUDS MIN.	.. 80TB28 FOUNDATION
HDN9	HDS	(2) 2x6 STUDS MIN.	.. 11/4" x 13" FOUNDATION

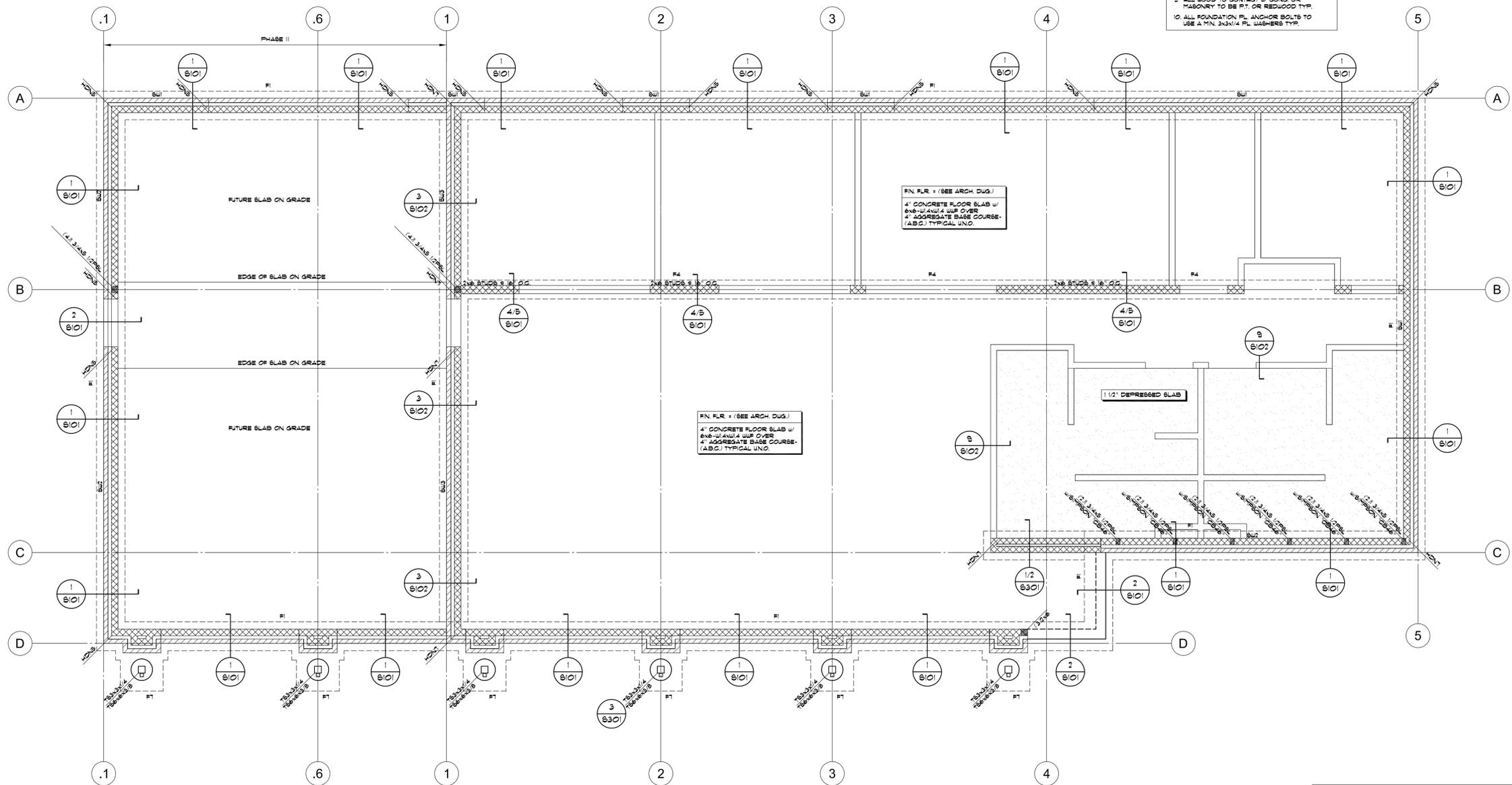
NOTE: IF REM JOINT IS USED HDN5 SHALL BE SHOWN IN HDN6 SHALL BE SHOWN IN SAME SIZE EPOXY BOLTS CAN BE USED AS SUBSTITUTION OF 80TB28 TYP. SEE SIMPSON'S FOR MIN. EMBEDDED LENGTH.

- FOUNDATION PLAN NOTES:**
- SEE GENERAL STRUCTURAL NOTES SHEET AND STANDARD CONCRETE DETAIL SHEET FOR:
    - GENERAL STRUCTURAL NOTES
    - TYPICAL EXCAVATION ADJACENT TO FOOTING
    - TYPICAL SLAB JOINT DETAILS
    - TYPICAL STEPPED FOOTING
  - US - DENOTES CONCRETE WALL STEP
  - R1 - DENOTES FOOTING MARK - SEE FOOTING SCHEDULE
  - K.C.J. - DENOTES KEYED CONTR. JOINT - SEE STANDARD DETAIL
  - C.J. - DENOTES CONTROL JOINT - SEE STANDARD DETAIL
  - R----S - DENOTES FOOTING STEP, SEE DETAIL TYPICAL
  - CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS. SLAB SLOPES & DEPRESSIONS NOT NOTED.
  - ALL SLABS ON GRADE ARE TO BE JOINTED AT NO MORE THAN 15'-0" EACH WAY USING JOINTS PER STANDARD DETAIL. IN ADDITION, NO SECTION OF CONCRETE SHALL HAVE AN ASPECT RATIO OF GREATER THAN 1:1.1. PROVIDE (2) 4" x 4" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB BARS PER ABOVE. SUBMIT COMPLETE JOINT LAYOUT PLAN TO THE ARCHITECT FOR PRIOR REVIEW.
  - ALL WOOD TO CONTACT W/ CONC. OR MASONRY TO BE P.T. OR REDWOOD TYP.
  - ALL FOUNDATION JOINT ANCHOR BOLTS TO USE A MIN. 3/4" PL. WASHERS TYP.

- CONCRETE POUR NOTES:**
- VERIFY FTG STEP LOCATIONS AND HEIGHT IN FIELD PRIOR TO FORMING FOOTINGS. MAKE FTG REBAR CONTINUOUS THROUGH FTGS WITH BENT BARS AT CORNERS. LAP BARS 40 BAR DIAMETERS AT SPICES AND TE.
  - ACCURATELY LOCATE ANCHOR BOLTS AND HOLD-DOWNS FROM THE PLAN AND VERIFY PRIOR TO PLACING CONCRETE.
  - DO NOT POUR ANY CONCRETE UNTIL THE FORMS ARE ADEQUATELY BOLSTERED AND SUPPORTED AND ALL REBAR IS IN PLACE AND SECURED.
  - DO NOT PERMIT FIN. GRADE TO COME CLOSER THAN 6" TO TOP OF CONCRETE.

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FIN. FLR. ± (SEE ARCH. DWG.)  
 4" CONCRETE FLOOR SLAB w/  
 8x6-1/4" x 1/4" W/P OVER  
 4" AGGREGATE BASE COURSE -  
 (A.B.C.) TYPICAL UNO

**FOUNDATION PLAN-ALTERNATIVE**

SCALE 1/4" = 1'-0"

BASE S/D: PHASE I IS BUILT ONLY  
 ALTERNATIVE: PHASE II IS BUILT RIGHT WITH PHASE I.

**NUMBER OF KING STUDS:**  
 ONE KING STUD FOR OPNG. 2'-0" TO 5'-0"  
 TWO KING STUDS FOR OPNG. 5'-0" TO 10'-0"  
 THREE KING STUDS FOR OPNG. 10'-0" TO 15'-0"  
 FOUR KING STUDS FOR OPNG. 15'-0" TO 20'-0"

**NOTE ON EPOXY BOLTS (IF APPLY):**  
 ALL EPOXY BOLTS ARE TO BE SIMPSON STRONG-TIE SET HIGH STRENGTH EPOXY AS PER (GBO/CC CODE) ER-5178. THE INSTALLING REQUIREMENT FOR EPOXY BOLTS AND/OR REBAR DOVELS ARE AS FOLLOWS:  
 DIAMETER/DRILL DIA/EMBED DEPTH/EDGE DIST./SPACING DIST.  
 1/2" / 5/8" / 4-1/2" / 1-3/4" / 6-3/8"  
 5/8" / 3/4" / 5" / 1-3/4" / 7-1/2"  
 3/4" / 7/8" / 6-3/4" / 1-3/4" / 10-1/8"

**FOOTING SCHEDULE** BASED ON SOIL BEARING = 10000 PSF SEE SOIL REPORT

MARK	SIZE	REINFORCING	REMARKS
R1	2'-0" x CONT. x 12"	(2) #4 CONT.	
R2	2'-6" x CONT. x 12"	(3) #4 CONT.	
R3	3'-0" x CONT. x 12"	(3) #4 CONT.	
R4	1'-4" x CONT. x 12"	(1) #4 CONT.	THICKENED SLAB
R5	2'-0" x CONT. x 12"	(2) #4 CONT.	THICKENED SLAB
R6	2'-6" BQ. x 12"	(2) #5 EW.	
R7	3'-0" BQ. x 12"	(3) #5 EW.	
R8	3'-6" BQ. x 12"	(4) #5 EW.	
R9	4'-0" BQ. x 12"	(4) #5 EW.	
R10	4'-6" BQ. x 12"	(5) #5 EW.	
R11	5'-0" BQ. x 12"	(5) #5 EW.	
R12	5'-6" BQ. x 13"	(6) #5 EW.	
R13	6'-0" BQ. x 13"	(6) #5 EW.	
R14	7'-0" BQ. x 14"	(6) #5 EW.	

CONSTRUCTION DOCUMENT

**GSLEP**  
**ADMINISTRATION BUILDING**  
 DIVISION OF WILDLIFE RESOURCES  
 DFCM PROJECT #09259520  
 HOOPER, UTAH

**JRCA**  
**ARCHITECTS**  
 577 South 200 East  
 Salt Lake City, Utah 84111  
 (801) 533-2100 fax: (801) 533-2101 jrcaesign.com

DATE/REVISION PROJECT #  
 4 · 8 · 10 SEI0026  
 05 · 24 · 10 REV. I

SHEET DESCRIPTION:  
**FOOTING & FOUNDATION PLAN**

SHEET NO.  
**S201**  
 ALT.

INDICATES WINDOW OPENING REINFORCEMENT. SEE DETAIL S-2.3 TYP.

ALL DBL. IN JOISTS ARE TO BE CONNECTED W/IGUE AND W/2#6 @ 6" O.C.  
 ALL DBL. TJ JOISTS ARE TO BE CONNECTED W/TIF PL-GLUE W/2#6 @ 6" O.C.  
 ALL MICRO-LAM DBL. BEAMS ARE TO BE CONNECTED W/IGUE AND 3#6 @ 6" O.C.  
 ALL DBL. STUDS ARE TO BE CONNECTED WITH 1/2" DIA. @ 24" O.C. STAGGERED

**TYPICAL DRAG-STRUCT. NOTES**  
 DRAG1  
 (1) EXTRA JOIST (OR JOIST BLSG.) W/SIMPSON 1064' CONT. W/ FULL NAILING TYP. SEE DET. S-6.301

DRAG2  
 SIMPSON 1064' CONT. FROM BEAM OR BLSG. TO SHEAR WALL. W/ FULL NAILING TYP. SEE DET. S-6.301

DRAG3  
 3" X BLSG. (OR 3" WIDE JOIST) W/SIMPSON 1064' CONT. W/ FULL NAILING TYP. SEE DET. S-6.301

**ROOF FRAMING PLAN NOTES:**

- SEE GENERAL STRUCTURAL NOTES SHEET AND STANDARD WOOD FRAMING DETAILS FOR:
  - GENERAL STRUCTURAL NOTES
  - TYPICAL HEADER DETAIL
  - TYPICAL TOP PLATE BRIDGE DETAIL
  - TYPICAL SHEAR WALL DETAIL
- KIP + KING POST. SEE PLAN FOR SIZE AND LOCATION TYPICAL.
- ALL ROOF JOISTS ARE TO BE TJ JOISTS. SEE PLAN FOR SIZE AND BRACE TYP.
- ESTABLISH AND VERIFY ALL OPENINGS + INSERTS FOR MECHANICAL, ELECTRICAL + PLUMBING WITH THE APPROPRIATE TRADES. DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE PLYWOOD DECK IS NOT ALLOWED.
- PROVIDE JOIST BRIDGES AS PER MANUFACTURER'S SPECIFICATION.
- PROVIDE SOLID BLOCKING AT JOIST BEARINGS TYPICAL UNO.
- PROVIDE 1/8" GAP ON ROOF DECK PLYWOOD OR ROLLUP MANUFACTURER'S SPECIFICATION.
- SEE STANDARD DETAIL FOR MULTI-STUDS TO WOOD BEAM/HEADER CONNECTION TYPICAL.
- SHEAR WALLS SHOWN ARE BELOW FRAMING LEVEL. COORDINATE WITH FRAMING PLANS.

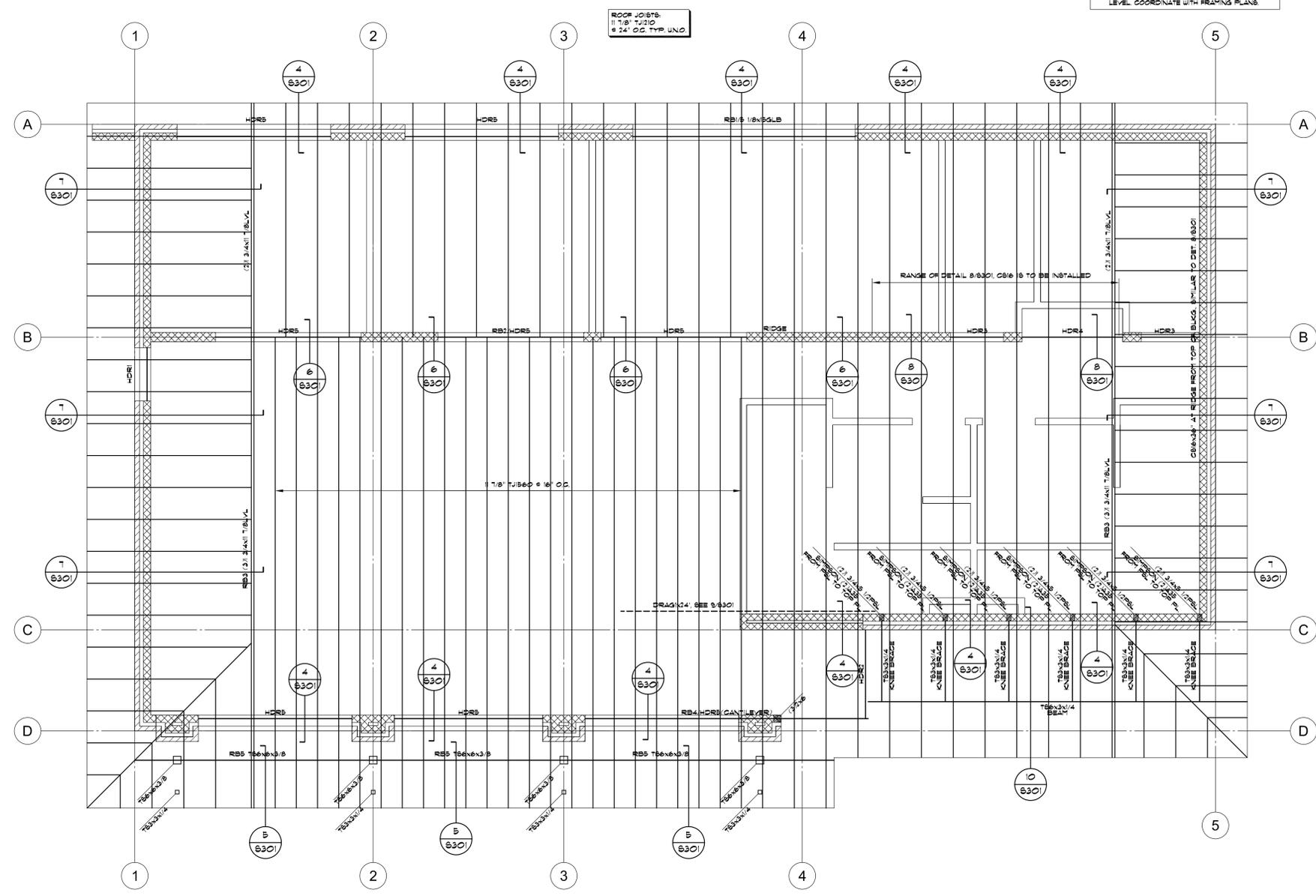
**HEADER SCHEDULE**

MARK	SIZE	END BRG.	REMARKS
HDR-1	(3)2x6	(2)2x6	--
HDR-2	(3)2x6	(2)2x6	--
HDR-3	(3)2x10	(2)2x6	--
HDR-4	(3)2x12	(3)2x6	--
HDR-5	5 1/8"x12 GLB	(3)2x6	OR (3) 3/4"x11 7/8" LVL
HDR-6	(2)2x6	(2)2x4	--
HDR-7	(2)2x10	(3)2x4	--
HDR-8	(2)2x10	(3)2x4	--
HDR-9	(2)2x12	(3)2x4	--
HDR-10	3 1/8"x12 GLB	(4)2x4	OR (2) 3/4"x11 7/8" LVL

**NOTES:**

- GULLIAM BEAMS SHALL BE COMBINATION SYMBOL 24F-V4 FOR REGULAR BEAM AND 24F-V8 FOR GANTLEVERED BEAM TYPICAL.
- ALL GULLIAM BEAMS TO BE ZERO CAMBER BEAMS UNO.
- ALL MULTI-MEMBER BEAMS + STUDS SHALL BE NAILED TOGETHER W/2" ROUS 16d @ 6" O.C. BOTH SIDES TYPICAL.

DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.



**ROOF FRAMING PLAN-BASE BID**

SCALE 1/4" = 1'-0"

BASE BID. PHASE I IS BUILT ONLY. ALTERNATIVE PHASE II IS BUILT RIGHT WITH PHASE I.

**SCHEDULE FOR SIMPSON HANGERS ON 12" MAX BEAMS AND JOISTS TYP. TOP MOUNT HANGERS**

MEMBER	FACE MOUNT HANGERS	FACE MOUNT HANGERS
9 1/2" TJ SERIES	IT	UB
DBL. 8 1/2" TJ	MTU	GLBT
DBL. 11 7/8" TJ	ITB	UB
1 3/4" LVL@PBL	MTU	MTU
3 1/2" LVL@PBL	HU	HU
5 1/4" LVL@PBL	GLTY	HU/HGU
7 1/4" LVL@PBL	HGLTY	HU/HGU
3 1/8" GLB	GLBT	GLBT
5 1/8" GLB	GLBT	GLBT
6 3/4" GLB	GLBT	GLBT
8 3/4" GLB	HGLBT	HGLBT
2x JOISTS	HU	LUB
(2)2x	HUB-2TF	LUB
(3)2x	HUB-3TF	LUB

**TYPICAL ROOF DECK:**

5/8" PLYWOOD SHEATHING SPAN RATINGS 32/16  
 SEE GENERAL STRUCTURAL NOTES-TYPICAL NAILING  
 8d @ 6" O.C. AT ALL PANEL EDGES SUPPORTED EDGES AND ALL TOP OF SHEAR WALLS  
 8d @ 12" O.C. AT ALL PANEL FIELD  
 FLANGE SHEATHING LONG-WISE ACROSS FRAMING  
 STAGGER END JOINTS UNBLOCKED DIAPHRAGM

**SHEARWALL SCHEDULE**

MARK	PLYWOOD	SHEATHING	INTER NAILING	BOTTOM PLATE	NAILING THRU FLOOR
SW1	1/2" (C-D, C-D)	8d @ 6" O.C.	8d @ 12" O.C.	2xPL	ANCHOR BOLTS TO CONC. @ 6" O.C.
SW2	1/2" (C-D, C-D)	8d @ 4" O.C.	8d @ 12" O.C.	2xPL	3/4" # AB x 10' @ 48" O.C. @ 3' O.C.
SW3	1/2" (C-D, C-D)	8d @ 3" O.C.	8d @ 12" O.C.	2xPL	3/8" LAG BOLTS @ 8" O.C. 3/4" # AB x 10' @ 24" O.C.
SW4	1/2" (C-D, C-D)	8d @ 2" O.C.	8d @ 12" O.C.	3xPL	3/8" LAG BOLTS @ 8" O.C. 3/4" # AB x 10' @ 32" O.C.
SW5	DBL 1/2" (C-D, C-D)	8d @ 4" O.C.	8d @ 12" O.C.	3xPL	1/2" LAG BOLTS @ 8" O.C. 3/4" # AB x 10' @ 24" O.C.

NOTE: FOR DOUBLE SIDED PLYWOOD SHEAR WALLS, THE PANEL JOINTS ON BOTH FACES TO BE OFFSET TO FALL ON DIFFERENT STUDS TYPICAL.  
 1/2" (C-D, C-D) PLYWOOD CAN BE SUBSTITUTED BY 1/8" OSB TYP. UNO.  
 FOR 6M4 FRAMING AT PANEL EDGES TO BE STAGGERED TYP.  
 WHERE LAG BOLTS TO BE USED, THE RM JOIST OR JOIST BLOCKING TO BE MIN. 3x MEMBER TYP.

CONSTRUCTION DOCUMENT

**GSLEP**  
**ADMINISTRATION BUILDING**  
 DIVISION OF WILDLIFE RESOURCES  
 DFCM PROJECT #09259520  
 HOOPER, UTAH

**JRCA**  
**ARCHITECTS**  
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DATE/REVISION PROJECT #  
 4 · 8 · 10 SE10026  
 05 · 24 · 10 REV. 1

SHEET DESCRIPTION:  
**ROOF FRAMING PLAN**

SHEET NO.  
**S202**  
 BASE BID

INDICATES WINDOW OPENING REINFORCEMENT. SEE DETAIL S-2.3 TYP.

ALL DBL. IN JOISTS ARE TO BE CONNECTED W/ GLUE AND W/ 2#6 @ 6" O.C.  
 ALL DBL. TJ JOISTS ARE TO BE CONNECTED W/ TYP. FL-GLUE W/ 2#6 @ 6" O.C.  
 ALL MICRO-LAM DBL. BEAMS ARE TO BE CONNECTED W/ GLUE AND 3#6 @ 6" O.C.  
 ALL DBL. STUDS ARE TO BE CONNECTED WITH 12#6 @ 6" O.C. STAGGERED

INDICATES WINDOW OPENING REINFORCEMENT. SEE DETAIL S-2.3 TYP.

EXTRA JOIST (OR JOIST BUCK) W/ SIMPSON CMB CONT. W/ FULL NAILING TYP. SEE DET. S-3.30

DRAGS:  
 SIMPSON 1064' CONT. BRCH BEAM (OR BUCK) TO SHEAR WALL W/ FULL NAILING TYP. SEE DET. S-3.30

DRAGS:  
 3" X BUCK (OR 3" WIDE JOIST) W/ SIMPSON CMB4' CONT. W/ FULL NAILING TYP. SEE DET. S-3.30

ROOF FRAMING PLAN NOTES:

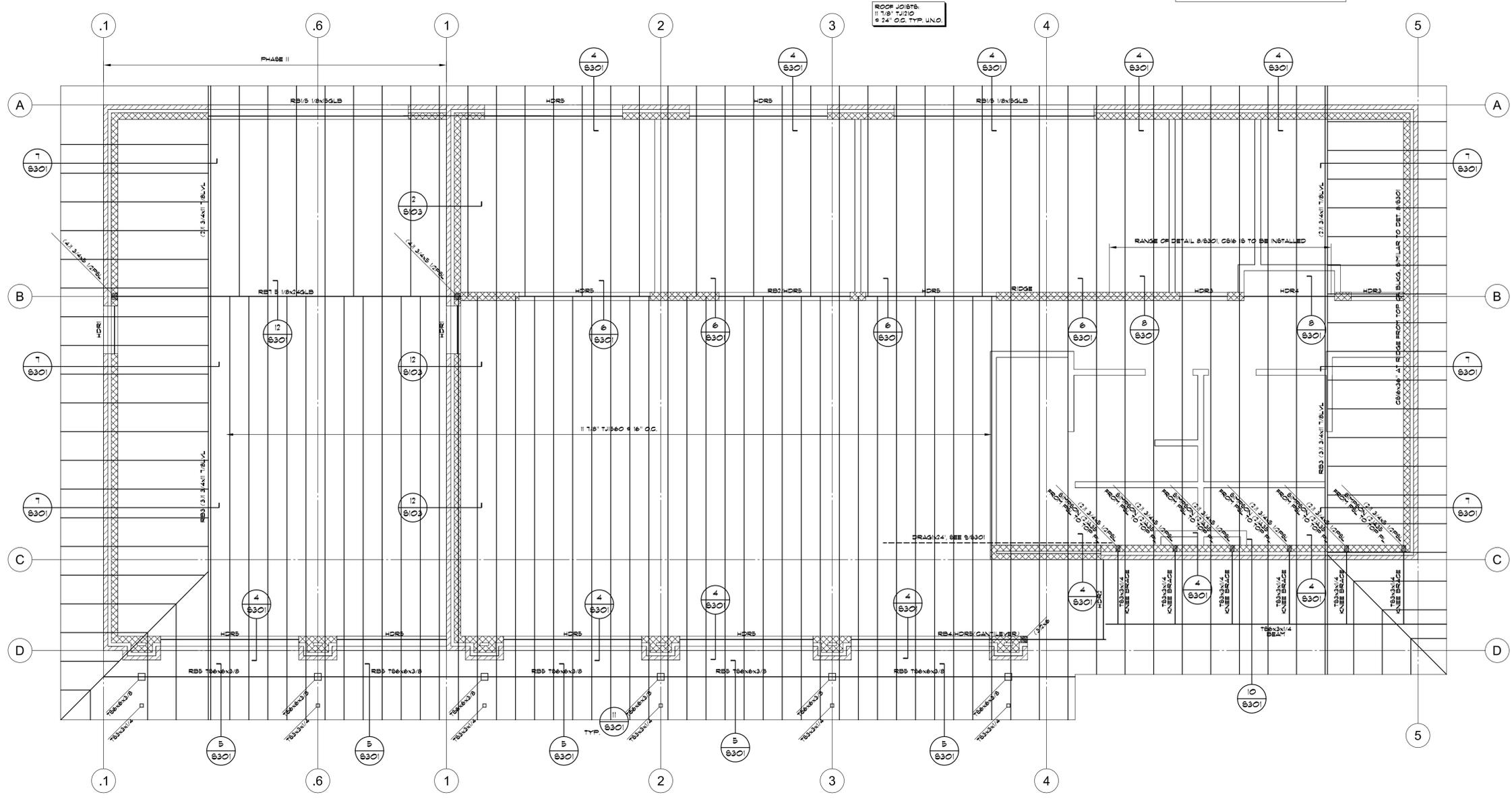
- SEE GENERAL STRUCTURAL NOTES SHEET AND STANDARD WOOD FRAMING DETAILS FOR:
  - A. GENERAL STRUCTURAL NOTES
  - B. TYPICAL HEADER DETAIL
  - C. TYPICAL TOP PLATE BRUCE DETAIL
  - D. TYPICAL SHEAR WALL DETAIL
- KIP + KING ROOF. SEE PLAN FOR SIZE AND LOCATION TYPICAL.
- ALL ROOF JOISTS ARE TO BE TJ JOISTS. SEE PLAN FOR SIZE AND BRACE TYP.
- ESTABLISH AND VERIFY ALL OPENINGS + INSERTS FOR MECHANICAL, ELECTRICAL + PLUMBING WITH THE APPROPRIATE TRADES. DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- HANGING CEILING DUCTWORK OR OTHER ITEMS FROM THE PLYWOOD DECK IS NOT ALLOWED.
- PROVIDE JOIST BRIDGING AS PER MANUFACTURER'S SPECIFICATION.
- PROVIDE SOLID BLOCKING AT JOIST BEARINGS TYPICAL UNO.
- PROVIDE 1/8" GAP ON ROOF DECK PLYWOOD OR ROLL-ON MANUFACTURER'S SPECIFICATION.
- ALL HEADERS OVER OPENINGS TO BE MIN. (3) 2X6 AT BRG WALLS W/ 12#6 STUDS BRGS.
- SEE STANDARD DETAIL FOR MULTI-STUDS TO WOOD BEAM/HEADER CONNECTION TYPICAL.
- SHEAR WALLS SHOWN ARE BELOW FRAMING LEVEL. COORDINATE WITH FRAMING PLANS.

HEADER SCHEDULE

MARK	SIZE	END BRG.	REMARKS
HDR-1	(3)2x6	(2)2x6	--
HDR-2	(3)2x6	(2)2x6	--
HDR-3	(3)2x10	(2)2x6	--
HDR-4	(3)2x10	(2)2x6	--
HDR-5	5 1/8"x12' GLB	(3)2x6	OR (3) 3/4"x11 7/8" LVL
HDR-6	(2)2x6	(2)2x4	--
HDR-7	(2)2x10	(2)2x4	--
HDR-8	(2)2x10	(2)2x4	--
HDR-9	(2)2x10	(2)2x4	--
HDR-10	3 1/8"x12' GLB	(4)2x4	OR (2) 3/4"x11 7/8" LVL

NOTES:  
 1. GULLAM BEAMS SHALL BE COMBINATION SYMBOL 24F-V4 FOR REGULAR BEAM AND 24F-V8 FOR GANTLEVERED BEAM TYPICAL.  
 2. ALL GULLAM BEAMS TO BE ZERO CAMBER BEAMS UNO.  
 3. ALL MULTI-MEMBER BEAMS + STUDS SHALL BE NAILED TOGETHER W/ 12#6 @ 6" O.C. BOTH SIDES TYPICAL.

DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.



ROOF JOISTS:  
 11 7/8" TJ110  
 @ 24" O.C. TYP. UNO.

**ROOF FRAMING PLAN-ALTERNATIVE**

SCALE 1/4" = 1'-0"

BASE B/D: PHASE I IS BUILT ONLY  
 ALTERNATIVE: PHASE II IS BUILT RIGHT WITH PHASE I.

SCHEDULE FOR SIMPSON HANGERS ON 12" MAX BEAMS AND JOISTS TYP. TOP MOUNT HANGERS

MEMBER	TOP MOUNT HANGERS
9 1/2" TJ SERIES	1T
DBL 8 1/2" TJ	1UB
11 7/8" TJ110	1T
DBL 11 7/8" TJ	1UB
1 3/4" LVL@PBL	1UJ
3 1/2" LVL@PBL	1UJGU
1 1/4" LVL@PBL	1UJGLTY
1 1/4" LVL@PBL	1UJGLTY
3 1/8" GLB	1GLB
5 1/8" GLB	1GLB
6 3/4" GLB	1GLB
8 3/4" GLB	1GLB
2x JOISTS	1LUB
(2)2x	1LUB-3TF

TYPICAL ROOF DECK:  
 5/8" PLYWOOD SHEATHING SPAN RATINGS 32/16  
 SEE GENERAL STRUCTURAL NOTES-TYPICAL NAILING  
 8D @ 6" O.C. AT ALL PANEL EDGES SUPPORTED EDGES AND ALL TOP OF SHEAR WALLS  
 8D @ 12" O.C. AT ALL PANEL FIELD  
 FLANGE SHEATHING LONG-WISE ACROSS FRAMING  
 STAGGER END JOINTS UNBLOCKED DIAPHRAGM

SHEARWALL SCHEDULE

MARK	PLYWOOD	SHEATHING	INTER NAILING	BOTTOM PLATE	NAILING THRU FLOOR
SW1	12" (C-D, C-D)	8d @ 6" O.C.	8d @ 12" O.C.	2xPL	3/4" x AB x 10' x 48' O.C. 16d @ 3' O.C.
SW2	12" (C-D, C-D)	8d @ 4" O.C.	8d @ 12" O.C.	2xPL	3/4" x AB x 10' x 32' O.C. 3/8" LAG BOLTS @ 8' O.C. 3/4" x AB x 10' x 24' O.C.
SW3	12" (C-D, C-D)	8d @ 3" O.C.	8d @ 12" O.C.	2xPL	3/8" LAG BOLTS @ 8' O.C. 3/4" x AB x 10' x 32' O.C.
SW4	12" (C-D, C-D)	8d @ 2" O.C.	8d @ 12" O.C.	2xPL	3/8" LAG BOLTS @ 8' O.C. 3/4" x AB x 10' x 32' O.C.
SW5	DBL 12" (C-D, C-D)	8d @ 4" O.C.	8d @ 12" O.C.	3xPL	1/2" LAG BOLTS @ 8' O.C. 3/4" x AB x 10' x 24' O.C.

NOTE: FOR DOUBLE SIDED PLYWOOD SHEAR WALLS, THE PANEL JOINTS ON BOTH FACES TO BE OFFSET TO FALL ON DIFFERENT STUDS TYPICAL.  
 12" (C-D, C-D) PLYWOOD CAN BE SUBSTITUTED BY 1 1/8" OSB TYP UNO.  
 FOR 6M4 FRAMING AT PANEL EDGES TO BE 38TD AND NAILS TO BE STAGGERED TYP.  
 WHERE LAG BOLTS TO BE USED, THE RM JOIST OR JOIST BLOCKING TO BE MIN. 3x MEMBER TYP.

CONSTRUCTION DOCUMENT

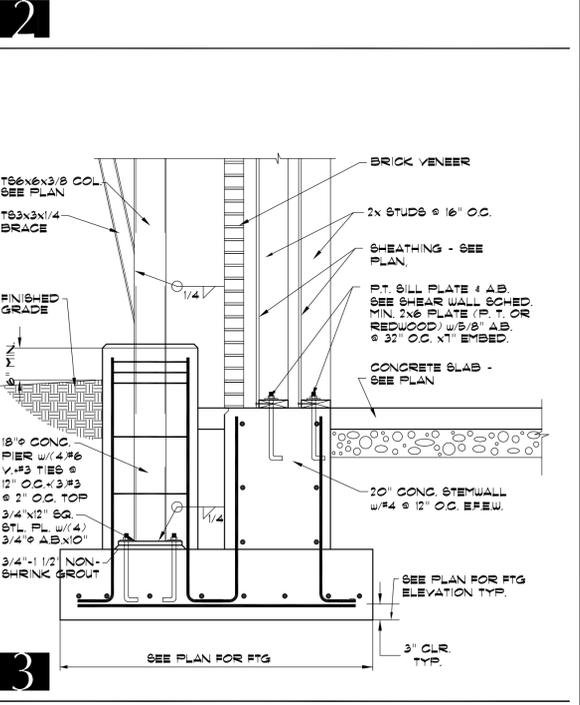
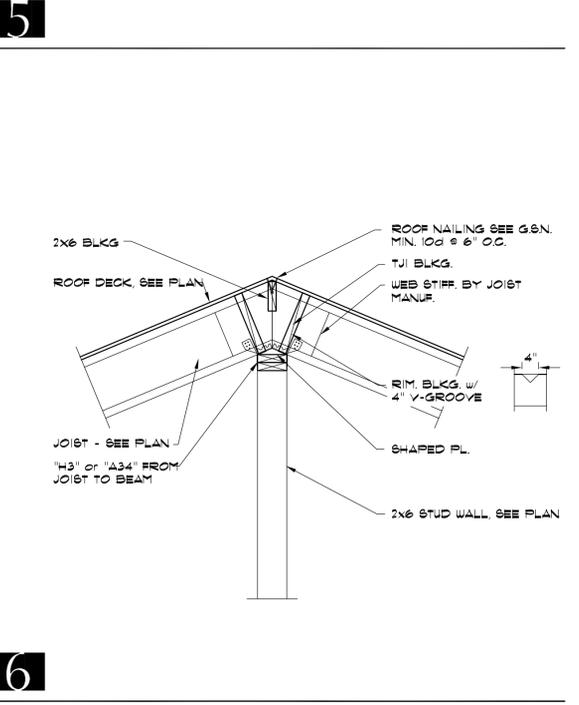
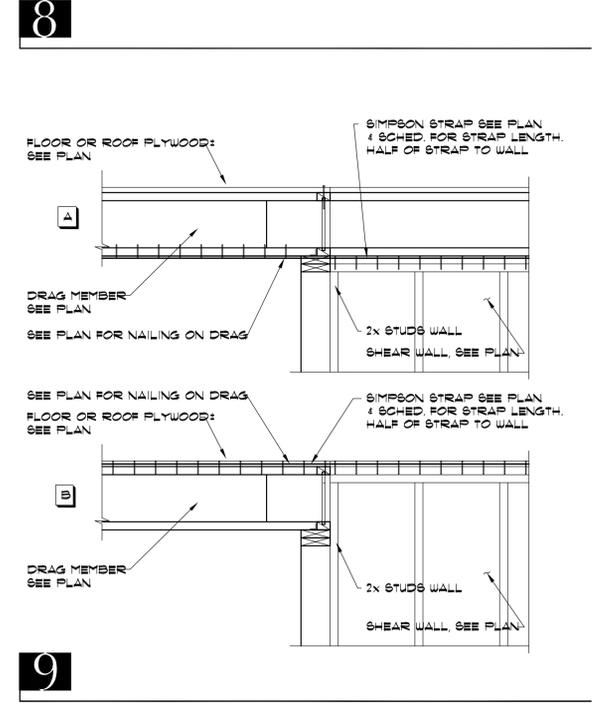
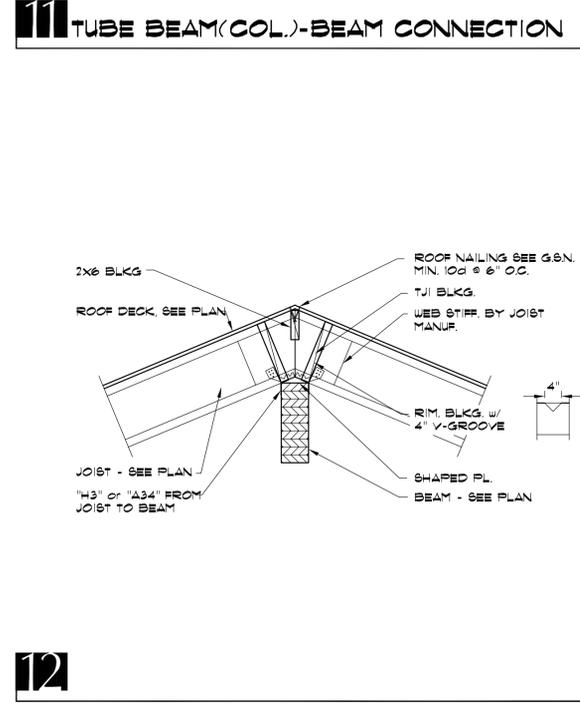
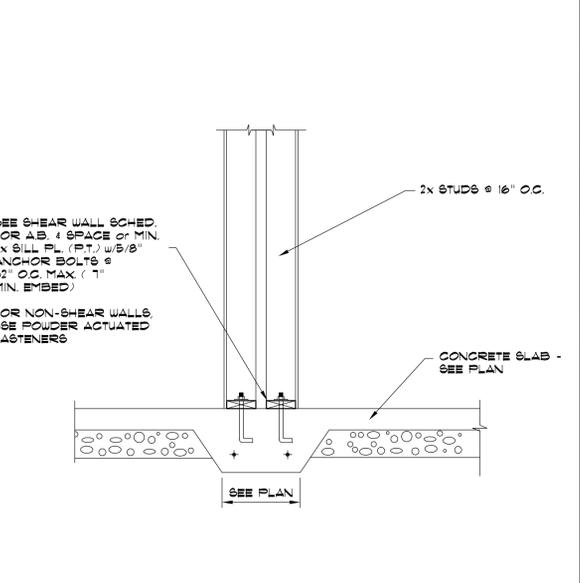
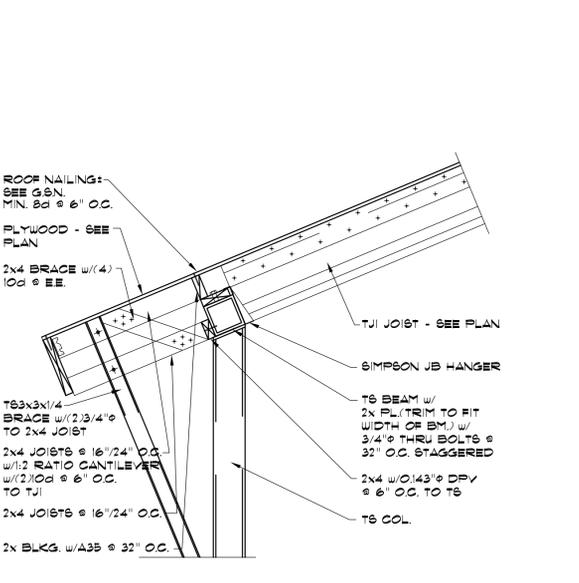
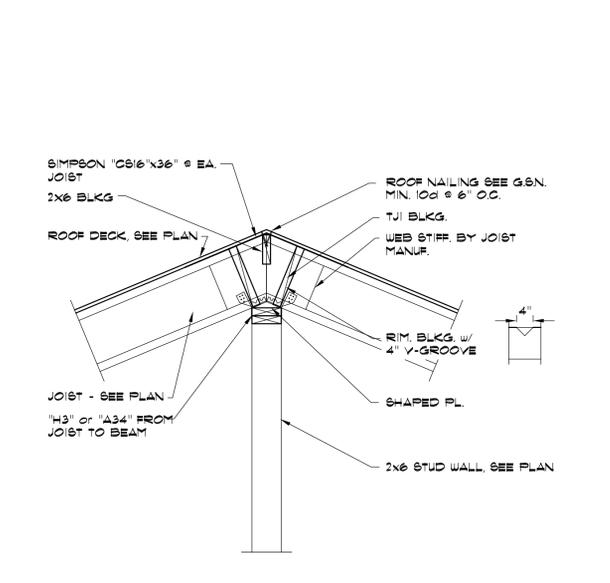
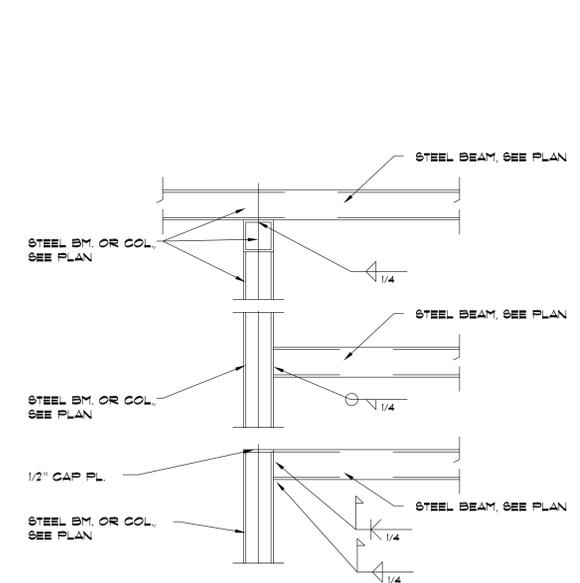
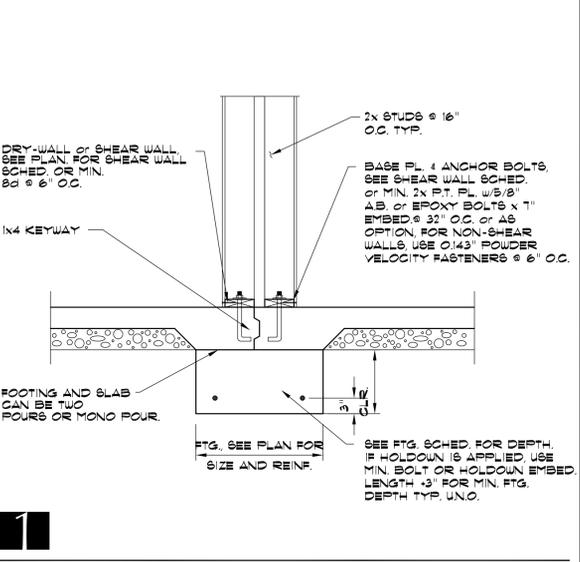
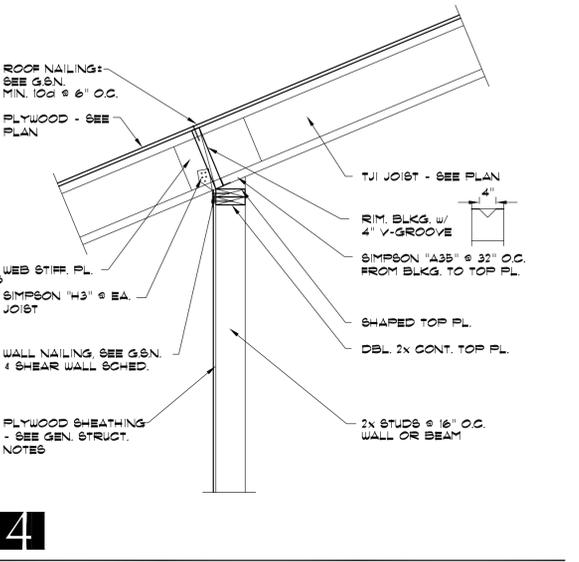
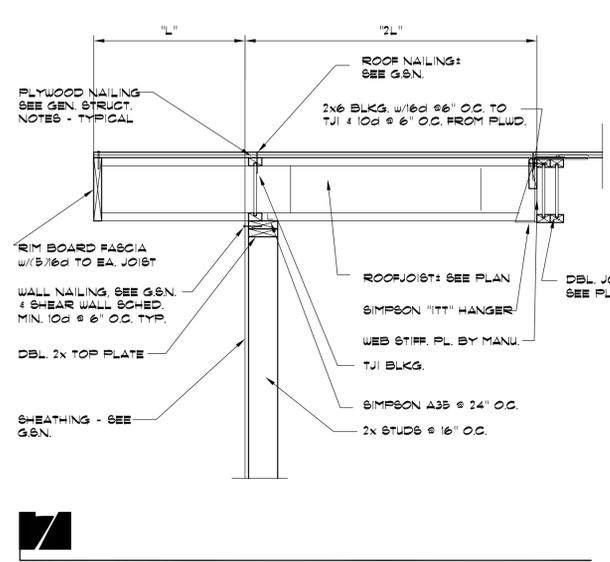
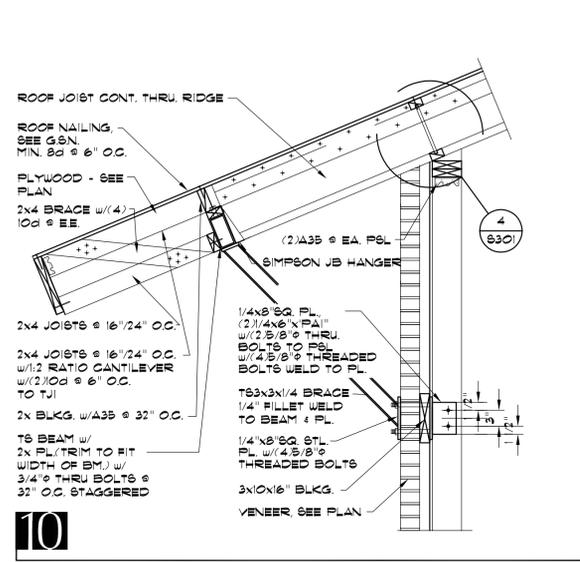
**GSLEP**  
**ADMINISTRATION BUILDING**  
 DIVISION OF WILDLIFE RESOURCES  
 DFCM PROJECT #09259520  
 HOOPER, UTAH

**JRCA**  
**ARCHITECTS**  
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DATE/REVISION PROJECT #  
 05 · 24 · 10 SEI0026  
 REV. 1

SHEET DESCRIPTION:  
**ROOF FRAMING PLAN**

SHEET NO.  
**S202**  
 ALT.



CONSTRUCTION DOCUMENT

**GSLEP ADMINISTRATION BUILDING**  
 DIVISION OF WILDLIFE RESOURCES  
 DFCM PROJECT #09259520  
 HOOPER, UTAH

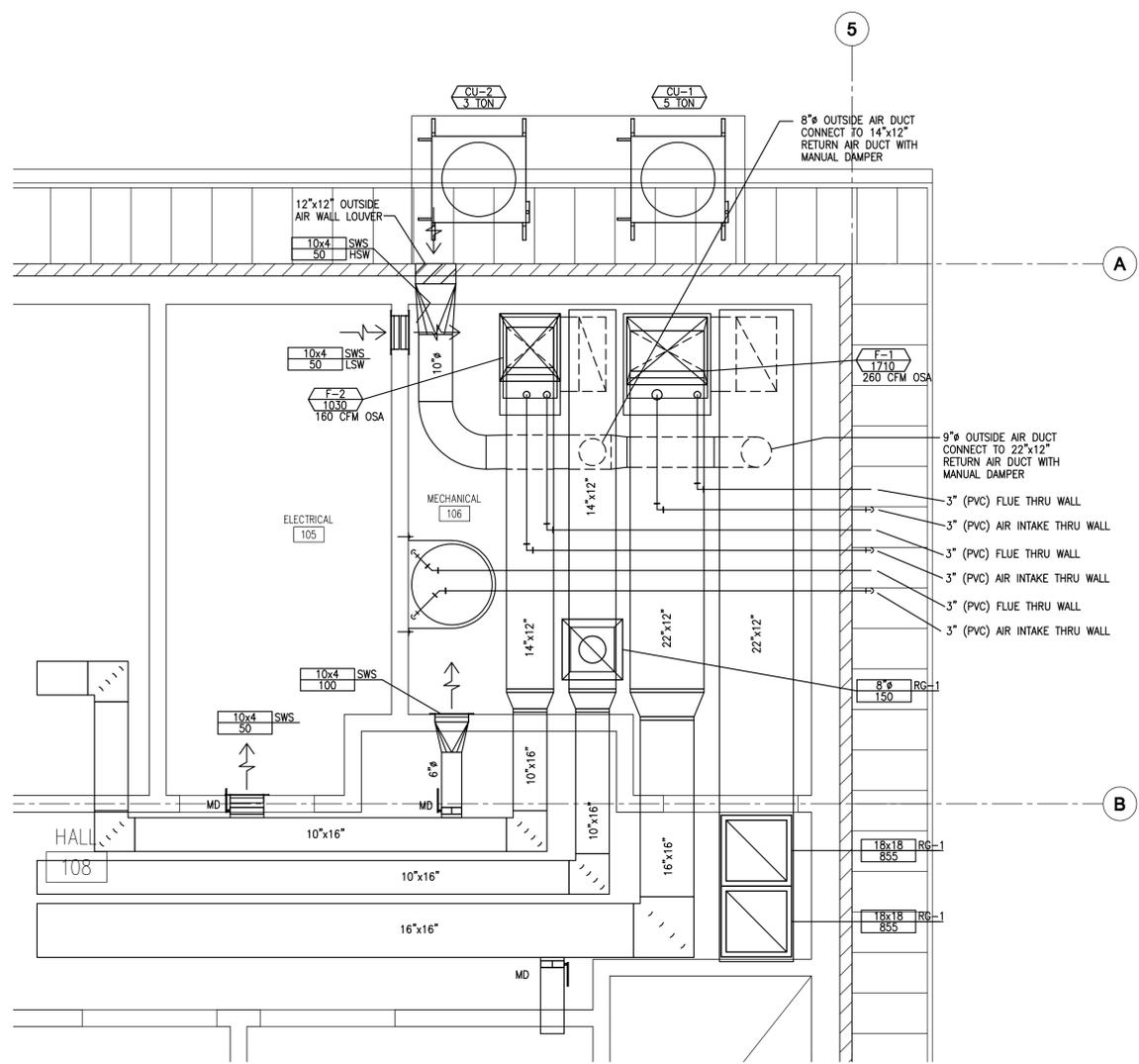
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DATE/REVISION	PROJECT #
4 · 8 · 10	SE10026
05 · 24 · 10	REV. 1

SHEET DESCRIPTION:  
**TYPICAL STRUCTURAL DETAILS**

SHEET NO.  
**S 301**





**1 MAIN LEVEL FLOOR PLAN - ENLARGED MECHANICAL ROOM**  
SCALE 1/2" = 1'-0"

**DALE R. WILDE CO.**  
CONSULTING ENGINEERS  
1106 E. 2700 So. SALT LAKE CITY, UTAH 84106  
PHONE (801) 433-1125 FAX (801) 486-0744

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DATE MARCH 15, 2010

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**GSLEP**  
**ADMINISTRATION BUILDING**  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

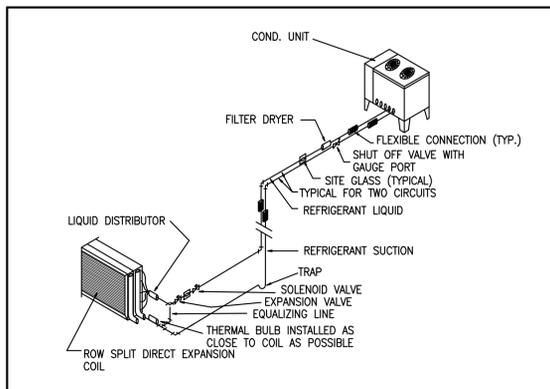


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Salt Lake City, Utah 84111  
(801) 533-2100 fax: 533-2101 [jrcadesign.com](http://jrcadesign.com)

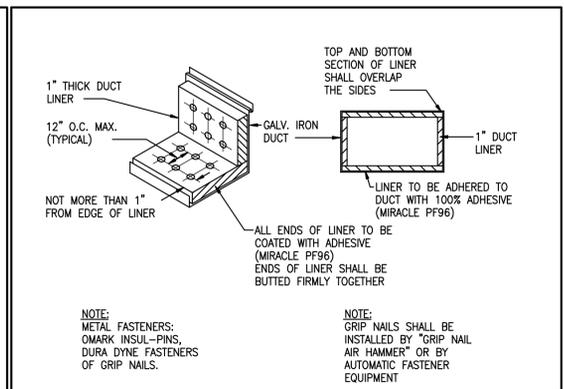
DATE/REVISION	PROJECT #
04 - 06 - 10	09019

FLOOR PLAN  
ENLARGED  
MECHANICAL  
ROOM

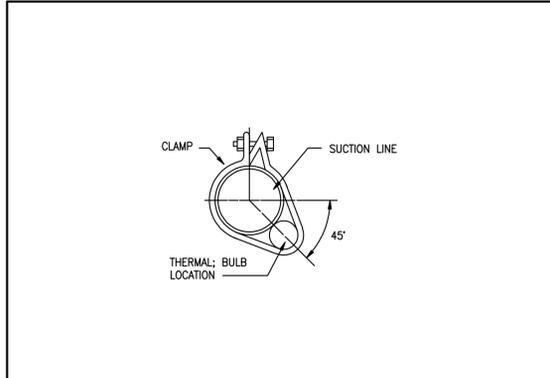
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**102**



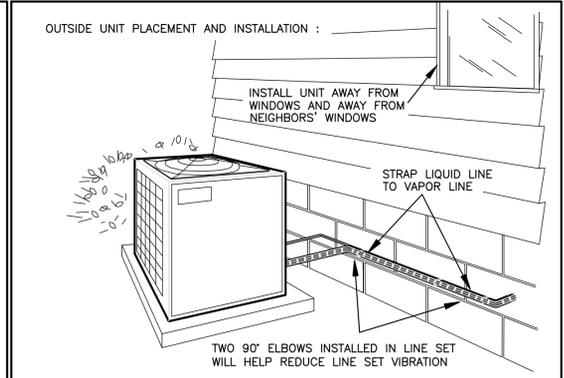
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SCALE: NONE



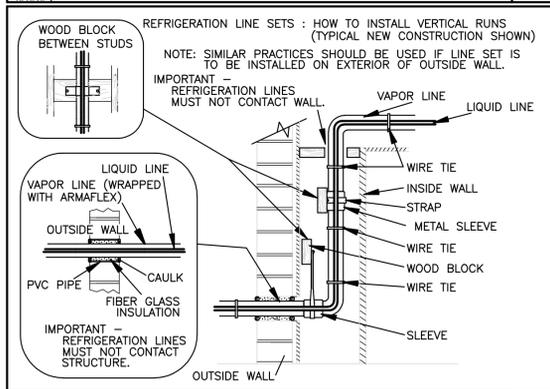
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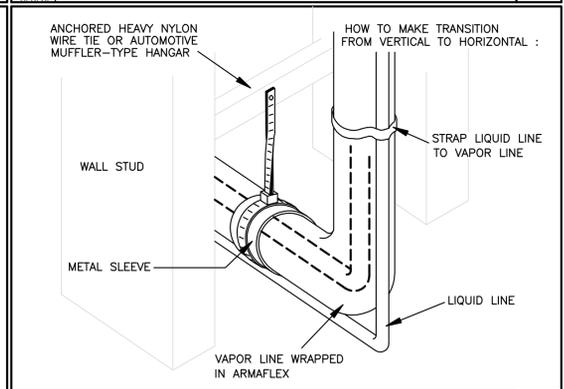
**\*DETAIL\* REFRIGERANT COIL CONNECTION**  
SCALE: NONE



**\*DETAIL\* OUTSIDE UNIT PLACEMENT**  
SCALE: NONE



**\*DETAIL\* REFRIGERANT -VERTICAL LINE SETS**  
SCALE: NONE



**\*DETAIL\* REFRIGERANT LINE SETS TRANSITIONS**  
SCALE: NONE

**DALE R. WILDE CO.**  
CONSULTING ENGINEERS  
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**GSLEP**  
**ADMINISTRATION BUILDING**  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH



**ARCHITECTS**  
577 South 200 East  
Salt Lake City, Utah 84111  
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DATE/REVISION	PROJECT #
04 - 06 - 10	09019

**MECHANICAL**  
**DETAILS**

M  
103

*DIFFUSER AND GRILLE SCHEDULE*	
<p>NOTES:</p> <p>DIFFUSER SIZING IS BASED ON AIR BEING INTRODUCED AT 25 DEGREES F. TEMPERATURE DIFFERENTIAL, AND AIR BEING DIFFUSED AT THE FIVE FOOT LEVEL TO A VELOCITY NOT GREATER THAN 50 FPM. DIFFUSERS SELECTED SO AS NOT TO EXCEED THE NC-30 CURVE.</p> <p>REGISTER AND GRILLE SIZING IS SELECTED SO AS NOT TO EXCEED THE NC-30 CURVE.</p> <p>MANUFACTURER SHALL GUARANTEE TO MEET THE ABOVE PERFORMANCE FACTORS AND REPLACE ALL DIFFUSERS WHERE REQUIRED.</p>	
SYMBOL	DESCRIPTION
CD	<p><b>CEILING SUPPLY DIFFUSER</b></p> <p>LOUVER FACE TYPE SUPPLY DIFFUSER 4 FULLY ADJUSTABLE CONES MINIMUM 24" x 24" FACE FULLY LOUVERED FRAME FOR MOUNTING IN 24" x 24" T-BAR GRID OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE AND DIFFUSION PATTERN ON THE DRAWINGS</p> <p>CARNES SETA KRUEGER 5SHPC METAL-AIR 5500-6 PRICE AMD-36 TITUS TDC-AA FRAME 3 TUTTLE AND BAILEY AM-LT</p>
CD-1	<p><b>CEILING SUPPLY DIFFUSER</b></p> <p>LOUVER FACE TYPE SUPPLY DIFFUSER 4 FULLY ADJUSTABLE CONES MINIMUM FRAME FOR MOUNTING IN GYPSUM BOARD CEILING OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE AND DIFFUSION PATTERN ON THE DRAWINGS</p> <p>CARNES SESA KRUEGER 5SHPC METAL-AIR 5500-1 PRICE AMD-1 TITUS TDC-AA FRAME 6 TUTTLE AND BAILEY AM-SF</p>
LD	<p><b>LINEAR SUPPLY DIFFUSER</b></p> <p>CUSTOM FLOW LINEAR DIFFUSER HORIZONTALLY BLACK INTERIOR ALL ALUMINUM CONSTRUCTION CONCEALED FRAME 1-1/2" WIDE SLOT LENGTH SHOWN ON THE DRAWINGS</p> <p>PRICE JS215 TYPE 22</p>
RG	<p><b>CEILING RETURN DIFFUSER</b></p> <p>LOUVER FACE TYPE SUPPLY DIFFUSER 24" x 24" FACE FULLY LOUVERED FRAME FOR MOUNTING IN 24" x 24" T-BAR GRID OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE SHOWN ON THE DRAWINGS</p> <p>KRUEGER 5SH METAL-AIR 5500-6 PRICE AMD-36 TITUS TDC-AA FRAME 6 TUTTLE AND BAILEY AM-LT</p>
RG-1	<p><b>CEILING RETURN DIFFUSER</b></p> <p>LOUVER FACE TYPE SUPPLY DIFFUSER FRAME FOR MOUNTING IN GYPSUM BOARD CEILING OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE AND DIFFUSION PATTERN ON THE DRAWINGS</p> <p>KRUEGER 5SH METAL-AIR 5500-1 PRICE AMD-1 TITUS TDC-AA FRAME 6 TUTTLE AND BAILEY AM-SF</p>
SWS	<p><b>SIDEWALL SUPPLY GRILLE</b></p> <p>DOUBLE DEFLECTION TYPE VERTICAL FACE BARS HORIZONTAL REAR BARS ALL BARS ON 3/4" CENTERS 1-1/4" FLANGED FRAME OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZES AND PERFORMANCE SHOWN ON DRAWINGS</p> <p>KRUEGER 5880 METAL-AIR V4004 PRICE 620 TITUS 300FS TUTTLE AND BAILEY A64</p>

*EQUIPMENT SCHEDULE*	
SYMBOL	DESCRIPTION
F-1	<p><b>UPFLOW TWO-STAGE CONDENSING PROPANE FIRED FURNACE</b></p> <p>MANUFACTURE TRANE MODEL NUMBER TUX120R960V</p> <p>RATINGS 1st STAGE INPUT BTUH 78,000 1st STAGE CAPACITY BTUH (ICS) 72,000 2nd STAGE INPUT BTUH 120,000 2nd STAGE CAPACITY BTUH (ICS) 112,000 AFUE (ICS) 92.5 TEMP. RISE (MIN.-MAX.) °F 40 - 70</p> <p>BLOWER DRIVE DIRECT DIA. WIDTH (in.) 11 x 10 No. USED 1 SPEEDS (No.) 4 CFM vs in. w.g. 1710 CFM / 0.5 ESP MOTOR HP 3/4 R.P.M. 1100 VOLTS/PH/HZ 115/1/60</p> <p>COMBUSTION FAN - TYPE CENTRIFUGAL DRIVE - No. SPEEDS DIRECT - VARIABLE MOTOR HP - RPM 1/15 - 5000 VOLTS/PH/HZ 115/1/60 FL AMPS 1.1</p> <p>FILTER - FURNISHED YES TYPE RECOMMENDED HIGH VELOCITY FILTER (No.-SIZE-THK.) 1 - 24"x25"x1"</p> <p>VENT - SIZE (in.) 3" ROUND</p> <p>HEAT EXCHANGER TYPE - FRIED ALUMINIZED STEEL TYPE 1 UNFRIED GAUGE (FRIED) 20</p> <p>ORIFICES - MAIN 6 - 56 L.P. GAS QTY. (FIRED)</p> <p>GAS VALVE REDUNDANT - TWO STAGE</p> <p>DIRECT IGNITION DEVICE TYPE HOT SURFACE IGNITER</p> <p>BURNER - TYPE IN-SHOT NUMBER 6</p> <p>POWER CONN. - V/PH/HZ 115/1/60 AMPACITY (IN AMPS) 12.9 FUZE SIZE - MAX. (AMPS) 15</p> <p>PIPE CONN. SIZE (in.) 0.50</p> <p>DIMENSIONS HEIGHT 40" LENGTH 28-1/2" WIDTH 24-1/2" WEIGHT 205 LBS SHIPPING / 193 LBS NET</p>
CC-1	<p><b>COOLING COIL - UP-FLOW CASED</b></p> <p>MANUFACTURE TRANE MODEL NUMBER TXC061C5HPB</p> <p>INDOOR COIL - TYPE PLATE FIN ROWS / F.P.L. 3 / 14 FACE AREA (sq. ft.) 6.19 TUBE SIZE (in.) 3/8 REFRIGERANT CONTROL TXVB DRAIN CONN. SIZE (in.) 3/4 NPT</p> <p>REFRIGERANT CONNECTION BRAZED LINE SIZE (GAS)(in.) 1-1/8" LINE SIZE (LIQUID)(in.) 3/8"</p> <p>DIMENSIONS HEIGHT 30-1/16" LENGTH 21-3/8" WIDTH 24-1/2" WEIGHT 77 LBS SHIPPING / 74 LBS NET</p>
CU-1	<p><b>CONDENSING UNIT</b></p> <p>MANUFACTURE TRANE MODEL NUMBER TTBO60D100A</p> <p>EXPANSION TYPE TXV-B</p> <p>RATING (COOLING) BTUH (TOTAL) 57,500 BTUH (SENSIBLE) 37,800 INDOOR AIRFLOW (CFM) 1800 SYSTEM POWER (KW) 6.15 SEER (BTU/WATT-HR) 10.00</p> <p>POWER CONNS - V/PH/HZ 208-230/1/60 MIN. BRCH. CIR. AMPACITY 58 BR. CIR. } MAX. (AMPS) 60 / 50 PROT. RTG. } MIN. (AMPS) 60 / 50</p> <p>COMPRESSOR CLIMATUFF - SCROLL No. USED - No. SPEEDS 1 - 1 VOLT/PH/HZ 208-230/1/60 R.L. AMPS - L.R. AMPS 29.0 - 169</p> <p>FACTORY INSTALLED NO START COMPONENTS NO INSULATION / SOUND BLANKET NO COMPRESSOR HEAT NO</p> <p>OUTDOOR FAN - TYPE PROPELLER DIA. (in.) No. USED 22 - 1 TYPE DRIVE - No. SPEEDS DIRECT - 1 CFM @ 0.0 in. w.g. 3250 No. MOTORS - HP 1 - 1/4 MOTOR SPEED R.P.M. 825 VOLT/PH/HZ 200-230/1/60 F.L. AMPS 1.90</p> <p>OUTDOOR COIL - TYPE SPINE FIN ROWS - F.P.L. 1 - 24 FACE AREA (sq. ft.) 25.17 TUBE SIZE (in.) 3/8</p> <p>REFRIGERANT LBS - 410A 8 LBS., 3 OZ. FACTORY SUPPLIED YES LINE SIZE (GAS)(in.) 1-1/8" LINE SIZE (LIQUID)(in.) 3/8"</p> <p>FCCV RESTRICTOR ORIFICE SIZE 0.092</p> <p>DIMENSIONS HEIGHT 41" LENGTH 32-3/4" WIDTH 28-3/4" WEIGHT 265 LBS SHIPPING - 249 LBS NET</p>

*EQUIPMENT SCHEDULE*	
SYMBOL	DESCRIPTION
F-2	<p><b>UPFLOW TWO-STAGE CONDENSING PROPANE FIRED FURNACE</b></p> <p>MANUFACTURE TRANE MODEL NUMBER TUX080R942V</p> <p>RATINGS 1st STAGE INPUT BTUH 52,000 1st STAGE CAPACITY BTUH (ICS) 48,000 2nd STAGE INPUT BTUH 80,000 2nd STAGE CAPACITY BTUH (ICS) 74,000 AFUE (ICS) 92.5 TEMP. RISE (MIN.-MAX.) °F 35 - 65</p> <p>BLOWER DRIVE DIRECT DIA. WIDTH (in.) 10 x 8 No. USED 1 SPEEDS (No.) 4 CFM vs in. w.g. 1030 CFM / 0.5 ESP MOTOR HP 1/3 R.P.M. 1075 VOLTS/PH/HZ 115/1/60</p> <p>COMBUSTION FAN - TYPE CENTRIFUGAL DRIVE - No. SPEEDS DIRECT - VARIABLE MOTOR HP - RPM 1/15 - 5000 VOLTS/PH/HZ 115/1/60 FL AMPS 1.1</p> <p>FILTER - FURNISHED YES TYPE RECOMMENDED HIGH VELOCITY FILTER (No.-SIZE-THK.) 1 - 17"x25"x1"</p> <p>VENT - SIZE (in.) 2" ROUND</p> <p>HEAT EXCHANGER TYPE - FRIED ALUMINIZED STEEL TYPE 1 UNFRIED GAUGE (FRIED) 20</p> <p>ORIFICES - MAIN 4 - 56 L.P. GAS QTY. (FIRED)</p> <p>GAS VALVE REDUNDANT - TWO STAGE</p> <p>DIRECT IGNITION DEVICE TYPE HOT SURFACE IGNITER</p> <p>BURNER - TYPE IN-SHOT NUMBER 4</p> <p>POWER CONN. - V/PH/HZ 115/1/60 AMPACITY (IN AMPS) 9.4 FUZE SIZE - MAX. (AMPS) 15</p> <p>PIPE CONN. SIZE (in.) 0.50</p> <p>DIMENSIONS HEIGHT 40" LENGTH 28-1/2" WIDTH 17-1/2" WEIGHT 158 LBS SHIPPING / 148 LBS NET</p>
CC-2	<p><b>COOLING COIL - UP-FLOW CASED</b></p> <p>MANUFACTURE TRANE MODEL NUMBER TXC036C4HPB</p> <p>INDOOR COIL - TYPE PLATE FIN ROWS / F.P.L. 3 / 12 FACE AREA (sq. ft.) 4.13 TUBE SIZE (in.) 3/8 REFRIGERANT CONTROL FCCV DRAIN CONN. SIZE (in.) 3/4 NPT</p> <p>REFRIGERANT CONNECTION BRAZED LINE SIZE (GAS)(in.) 7/8" LINE SIZE (LIQUID)(in.) 3/8"</p> <p>DIMENSIONS HEIGHT 30-1/16" LENGTH 21-3/8" WIDTH 17-1/2" WEIGHT 54 LBS SHIPPING / 51 LBS NET</p>
CU-2	<p><b>CONDENSING UNIT</b></p> <p>MANUFACTURE TRANE MODEL NUMBER TTBO36C100A</p> <p>EXPANSION TYPE FACT INS 71</p> <p>RATING (COOLING) BTUH (TOTAL) 34,000 BTUH (SENSIBLE) 23,700 INDOOR AIRFLOW (CFM) 1200 SYSTEM POWER (KW) 6.15 SEER (BTU/WATT-HR) 10.00</p> <p>POWER CONNS - V/PH/HZ 208-230/1/60 MIN. BRCH. CIR. AMPACITY 22 BR. CIR. } MAX. (AMPS) 35 PROT. RTG. } MIN. (AMPS) 35</p> <p>COMPRESSOR CLIMATUFF No. USED - No. SPEEDS 1 - 1 VOLT/PH/HZ 208-230/1/60 R.L. AMPS - L.R. AMPS 16.0 - 88</p> <p>FACTORY INSTALLED NO START COMPONENTS NO INSULATION / SOUND BLANKET NO COMPRESSOR HEAT NO</p> <p>OUTDOOR FAN - TYPE PROPELLER DIA. (in.) No. USED 18 - 1 TYPE DRIVE - No. SPEEDS DIRECT - 1 CFM @ 0.0 in. w.g. 3000 No. MOTORS - HP 1 - 1/4 MOTOR SPEED R.P.M. 1075 VOLT/PH/HZ 200-230/1/60 F.L. AMPS 1.30</p> <p>OUTDOOR COIL - TYPE SPINE FIN ROWS - F.P.L. 1 - 24 FACE AREA (sq. ft.) 14.93 TUBE SIZE (in.) 3/8</p> <p>REFRIGERANT LBS - 410A 5 LBS., 10 OZ. FACTORY SUPPLIED YES LINE SIZE (GAS)(in.) 7/8" LINE SIZE (LIQUID)(in.) 3/8"</p> <p>FCCV RESTRICTOR ORIFICE SIZE 0.071</p> <p>DIMENSIONS HEIGHT 41" LENGTH 32-3/4" WIDTH 28-3/4" WEIGHT 188 LBS SHIPPING - 174 LBS NET</p>

*EQUIPMENT SCHEDULE*	
SYMBOL	DESCRIPTION
EF-1	<p><b>EXHAUST FAN CEILING MOUNTED</b></p> <p>MANUFACTURE COOK MODEL NUMBER GEMINI GC-160</p> <p>SPECIFICATION AIRFLOW 160 CFM STATIC PRESSURE 0.125" SP SONES 4.0 RPM 1500</p> <p>ELECTRICAL VOLTS/PH/HZ 120/1/60 WATTS 113</p> <p>DIMENSIONS HEIGHT 8-3/8" LENGTH 13-1/2" WIDTH 15-1/2" WEIGHT 15 LBS.</p>
RH-1	<p><b>RADIANT HEATER CEILING MOUNTED</b></p> <p>MANUFACTURE AZTEC RADIANT HEATING BY QMARK MODEL NUMBER CP378</p> <p>ELECTRICAL VOLTS/PH/HZ 208/1/60 WATTS 375</p> <p>DIMENSIONS HEIGHT 1" LENGTH 24" WIDTH 24"</p> <p>ACCESSORIES RECESS MOUNTING FRAME QRF2424</p>

**\*GENERAL NOTES\***

COORDINATE ALL SUSPENDED EQUIPMENT WITH ARCHITECTURAL REFLECTED CEILING PLAN.

IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES.

COORDINATE ALL ROOF MOUNTED MECHANICAL EQUIPMENT WITH STRUCTURAL PLANS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL STRUCTURE REQUIRED TO SUPPORT THE EQUIPMENT IF EQUIPMENT WEIGHT AND DIMENSIONS EXCEED WHAT HAS BEEN SCHEDULED AND SHOWN ON THE DRAWINGS.

COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL DRAWINGS.

ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. INCREASE SIZES AS REQUIRED FOR DUCT LINER.

ALL EQUIPMENT DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE.

ALL QUESTION MUST BE SUBMITTED TO THE ARCHITECT IN THE FORM OF AN RFI. ANY RFI SENT DIRECTLY TO ENGINEER WILL BE RETURNED UNREAD.

ANY RFIs THAT HAVE BEEN CORRECTED OR APPROVED BY THE ENGINEER WILL BE JUST FOR CLARIFICATION, AND DOES NOT CONSTITUTE A CHANGE ORDER.

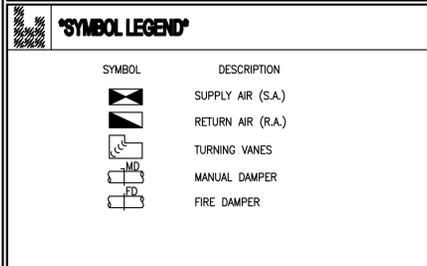
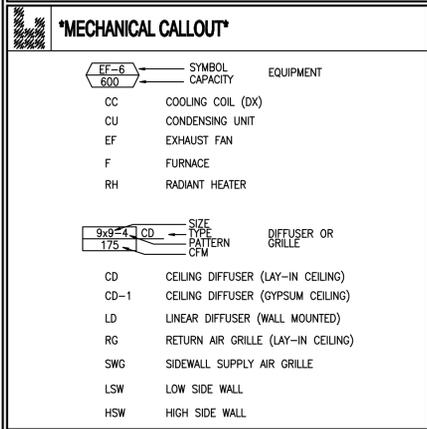
CHANGE ORDERS MUST BE SUBMITTED TO THE ARCHITECT. THE CHANGE ORDER SHALL BE COMPLETE BY LISTING THE FINAL PRICING WITH PROPER BREAKDOWN AND DOCUMENTATION. POSSIBLE TIME EXTENSION OR DELAY AND THE ASSOCIATED COST FOR THE TIME EXTENSION OR DELAY. MATERIAL AND LABOR COST.

RFIs WITH BE RETURNED TO ARCHITECT FROM ENGINEER WITHIN 5 WORKING DAYS.

CHANGE ORDERS WILL BE RETURNED TO ARCHITECT FROM ENGINEER WITHIN 15 DAYS.

DO NOT PROCEED WITH RFI UNTIL CHANGE ORDER HAS BEEN APPROVED BY ARCHITECT, OWNER AND ENGINEER. IF CONTRACTOR DOES SO IT WILL BE AT THEIR OWN RISK.

IF TIME EXTENSIONS AND/OR DELAYS ARE INCURRED DUE TO FAILURE TO ISSUE AN RFI, CHANGE REQUEST, CHANGE ORDER, OR IMPROPER AND/OR INCOMPLETE DOCUMENTATION THE COST ASSOCIATED WITH THE DELAY WILL BE BORNE BY THE CONTRACTOR.



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DFCM PROJECT #09259520  
HOOPER, UTAH

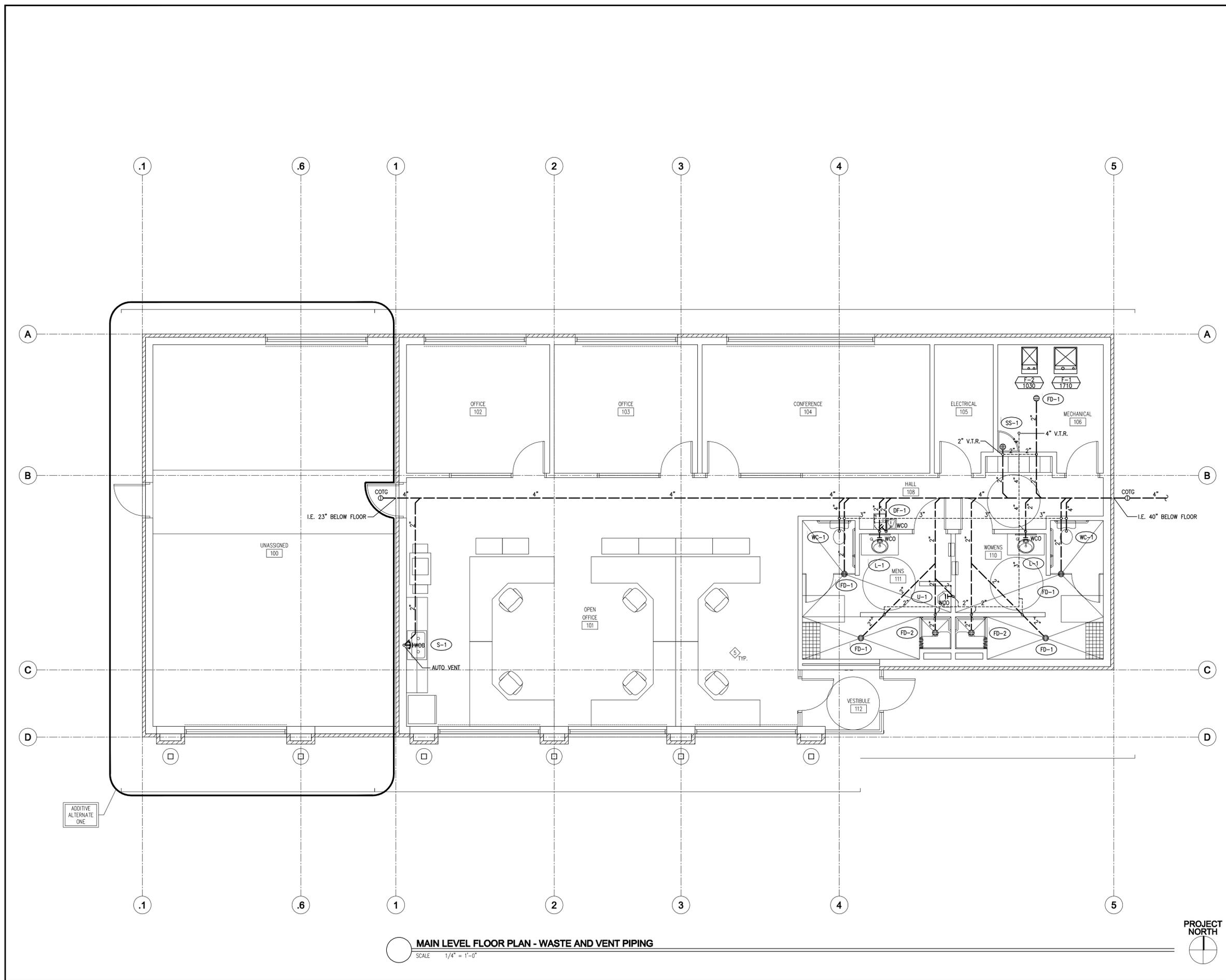
**JRCA**

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04 - 06 - 10 09019

MECHANICAL SCHEDULES AND NOTES

**M 104**



**KEY NOTES:**

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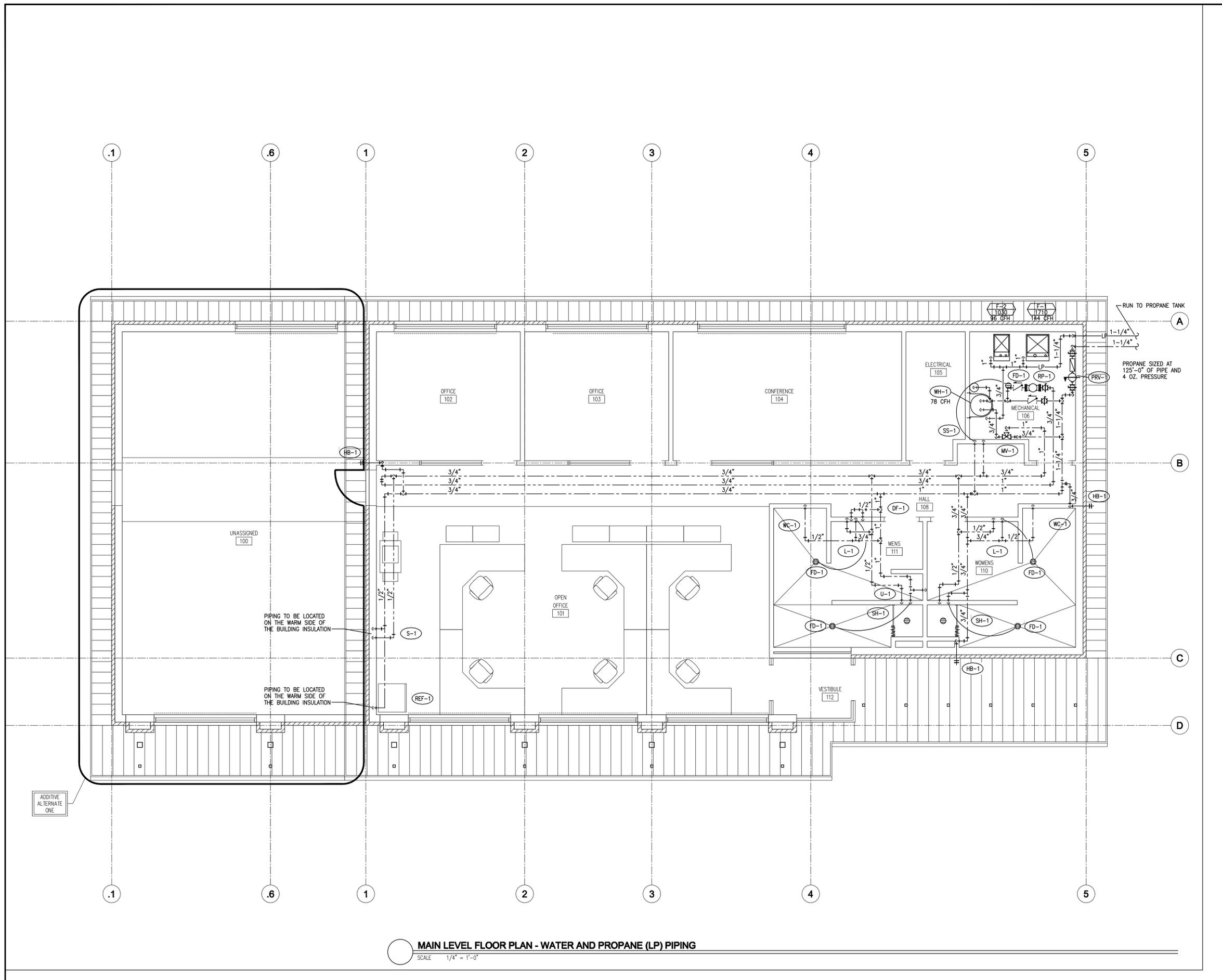
**FLOOR PLAN**  
**WASTE AND VENT**  
**PIPING**

**P**  
**101**

**MAIN LEVEL FLOOR PLAN - WASTE AND VENT PIPING**  
 SCALE 1/4" = 1'-0"



ADDITIVE  
 ALTERNATE  
 ONE



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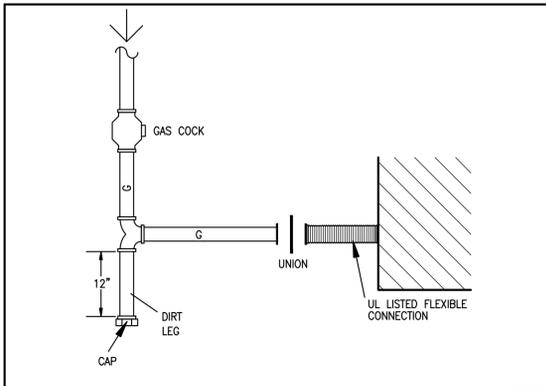
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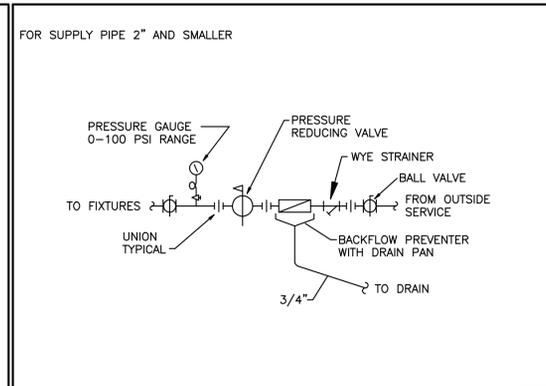
FLOOR PLAN  
 WATER AND  
 PROPANE PIPING

**P**  
**102**

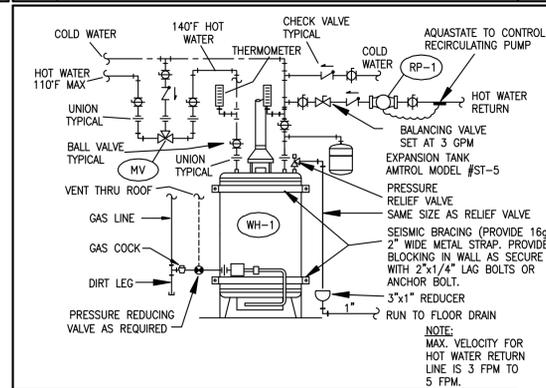
**MAIN LEVEL FLOOR PLAN - WATER AND PROPANE (LP) PIPING**  
 SCALE 1/4" = 1'-0"



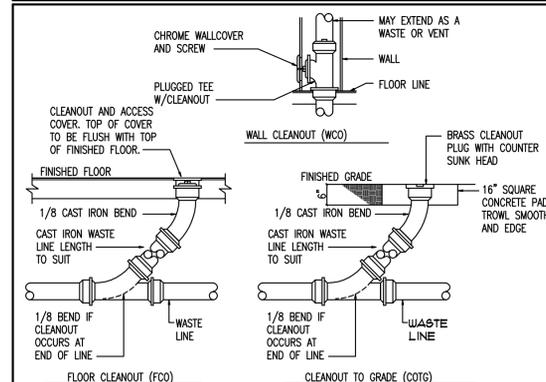
**\*DETAIL\* GAS CONNECTION**  
SCALE: NONE



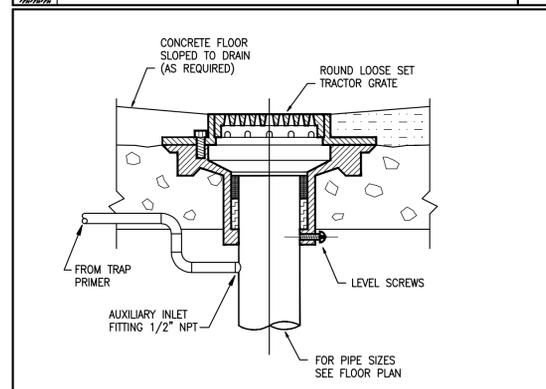
**\*DETAIL\* PRV STATION**  
SCALE: NONE



**\*DETAIL\* WATER HEATER WITH RECIRC.PUMP**  
SCALE: NONE



**\*DETAIL\* CLEANOUTS**  
SCALE: NONE



**\*DETAIL\* FLOOR DRAIN W/TRAP PRIMER**  
SCALE: NONE

**\*WATER FIXTURE UNITS\***

QTY.	FIXTURE	OCCUPANCY	TYPE OF SUPPLY CONTROL	LOAD VALUES, IN WATER SUPPLY FIXTURE UNITS (wsfu)		
				COLD	HOT	TOTAL
2	DRINKING FOUNTAIN	OFFICE	3/8" VALVE	0.5		0.5
1	KITCHEN SINK	PRIVATE	FAUCET	1.0	1.0	1.4
2	LAVATORY	PUBLIC	FAUCET	3.0	3.0	4.0
1	SERVICE SINK	OFFICE	FAUCET	2.25	2.25	3.0
2	SHOWER HEAD	PUBLIC	MIXING VALVE	6.0	6.0	8.0
1	URINAL	PUBLIC	3/4" FLUSH VAL	5.0		5.0
2	WATER CLOSET	PUBLIC	FLUSH TANK	10.0		10.0
TOTAL FIXTURE UNITS				27.75	12.25	31.90
GALLONS PER MINUTE				23.94		
PIPE SIZE				1-1/4"		

2006 INTERNATIONAL PLUMBING CODE

**\*PROPANE (LP) REQUIREMENTS\***

QTY.	FIXTURE	BTUH	CFH
1	FURNACE (F-1)	0	0
1	FURNACE (F-2)	0	0
1	WATER HEATER (WH-1)	0	0
TOTALS		0	0
BUILDING GAS PRESSURE		4 OZ.	
DEVELOPED PIPE LENGTH		0'-0"	
SIZE OF BUILDING GAS MAIN		0"	

2006 INTERNATIONAL PLUMBING CODE

**\*MECHANICAL LEGEND\***

SYMBOL	DESCRIPTION	ABBREVIATION
[Symbol]	BACKFLOW PREVENTER	BFP
[Symbol]	BALANCING VALVE	
[Symbol]	BALL VALVE	
[Symbol]	CHECK VALVE	
[Symbol]	DRAIN	D
[Symbol]	GAS COCK	
[Symbol]	PRESSURE GAUGE	
[Symbol]	PRESSURE REDUCING VALVE	PRV
[Symbol]	PUMP	P
[Symbol]	RELIEF VALVE	
[Symbol]	STRAINER	
[Symbol]	THERMOMETER	
[Symbol]	THREE WAY MIXING VALVE	
[Symbol]	UNION	
[Symbol]	VALVE IN RISER	

**\*PLUMBING LEGEND\***

SYMBOL	DESCRIPTION	ABBREVIATION
[Symbol]	SOIL OR WASTE (ABOVE FLOOR)	S OR W
[Symbol]	SOIL OR WASTE (BELOW GRADE OR FLOOR)	S OR W
[Symbol]	VENT	V
[Symbol]	COLD WATER	CW
[Symbol]	HOT WATER	HW
[Symbol]	RECIRCULATING HOT WATER	RHW
[Symbol]	PROPANE	LP
[Symbol]	VENT THRU ROOF	VTR
[Symbol]	WALL CLEAN OUT	WCO
[Symbol]	FLOOR CLEAN OUT	FCO
[Symbol]	CLEAN OUT TO GRADE	COTG

**\*DRAINAGE FIXTURE UNITS\***

QTY.	FIXTURE TYPE	DRAINAGE FIXTURE UNIT VALUE AS LOAD FACTORS	MINIMUM SIZE OF TRAP (inches)
2	DRINKING FOUNTAIN	1.0	1-1/4"
5	FLOOR DRAIN	10.0	2"
1	KITCHEN SINK, DOMESTIC	2.0	1-1/2"
2	LAVATORY	2.0	1-1/4"
2	SHOWER COMPARTMENT, DOMESTIC	4.0	1-1/2"
1	SERVICE SINK	2.0	1-1/2"
1	URINAL, 1 GALLON PER FLUSH OR LESS	2.0	NOTE a
2	WATER CLOSET, PUBLIC (1.6 GPM)	16.0	NOTE a
TOTAL FIXTURE UNITS		39.0	
PIPE SIZE		4"	

2006 INTERNATIONAL PLUMBING CODE

a TRAP SIZE SHALL BE CONSISTENT WITH THE FIXTURE OUTLET SIZE.  
b FOR THE PURPOSE OF COMPUTING LOADS ON BUILDING DRAINS AND SEWERS, WATER CLOSETS OR URINALS SHALL NOT BE RATED AT A LOWER DRAINAGE FIXTURE UNIT UNLESS THE LOWER VALUES ARE CONFIRMED BY TESTING.

**\*BUILDING DRAINS AND SEWERS\***

DIAMETER OF PIPE (INCHES)	MAXIMUM NUMBER OF DRAINAGE FIXTURE UNITS CONNECTED TO ANY PORTION OF THE BUILDING DRAIN OR THE BUILDING SEWER, INCLUDING BRANCHES OF THE BUILDING DRAIN, a			
	SLOPE PER FOOT			
	1/16 INCH	1/8 INCH	1/4 INCH	1/2 INCH
1-1/4"			1	1
1-1/2"			3	3
2"			21	26
2-1/2"			24	31
3"		36	42	50
4"		180	216	250
5"		390	480	575
6"		700	840	1,000

THE MINIMUM SIZE OF ANY BUILDING DRAIN SERVING A WATER CLOSET SHALL BE 3 INCHES.

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**GSLEP**  
ADMINISTRATION BUILDING  
DIVISION OF WILDLIFE RESOURCES  
DFCM PROJECT #09259520  
HOOPER, UTAH

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DATE/REVISION	PROJECT #
04 - 06 - 10	09019

PLUMBING  
DETAILS AND  
NOTES

**P**  
**103**

*PLUMBING FIXTURE SCHEDULE*							
SYMBOL	FIXTURE	MANUFACTURE	MODEL	WASTE	VENT	H.W.	C.W.
DF-1 	HI-LOW DRINKING FOUNTAIN (ELEC. COOLER)  STOPS  SUPPLY  COLOR  WALL SUPPORT	ACORN AQUA ELKAY HYR840-BL ADA SUNROC  NIBCO NIBCO  BRASSCRAFT WATTS B&T  BY ARCHITECT  J.R. SMITH MIFAB ZURN WADE	A11208F EZ5TL8C HYR840-BL ADA PRV8ACSL  7105 ANGLE STOP 7100 STRAIGHT STOP  CHROME PLATED CHROME PLATED  (2) 834 MC-33 (2) Z1223 W440-AMII				1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. TWO STATION BARRIER-FREE WALL MOUNTED WATER COOLER. 3. PUSH BAR ON FRONT AND BOTH SIDES. 4. CAPACITY OF 9.7 GPM OF 50 DEGREES F. WITH 70 DEGREES F. ROOM AIR. 5. WALL CARRIER. 6. CHROME PLATED "P" TRAP. 7. 115v/60h/1p - (4.0 FLA) 370 WATTS - 1/5 H.P. COMP. 8. MOUNT BUBBLERS AT 32-7/8" A.F.F. AND 38-3/8" A.F.F.							
FD-1 	FLOOR DRAIN   TRAP PRIMER	J.R. SMITH ZURN JOSAM WATTS DRAINAGE WADE  J.R. SMITH MIFAB JOSAM WADE WATTS ZURN TRAP GUARD	2005-A Z-415 30000-Z-S F1100-C-1 FD-100-A5 W-1102-STD5-1  2699 MI-TSP-2 88250 2400T A200T Z1022.5IP TB-22-IP	2	1-1/2		1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. 2" CAST IRON "P" TRAP WITH PRIMER TAPPING FITTING. 3. 5" DIAMETER NICKEL BRONZE STRAINER.							
FD-2 	FLOOR DRAIN	J.R. SMITH ZURN JOSAM MIFAB WATTS DRAINAGE WADE	2005-A Z-415 30000-Z-S F1100-C-1 FD-100-A5 W1102-STD5-1	2	1-1/2		
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. 2" CAST IRON "P" TRAP. 3. 5" DIAMETER NICKEL BRONZE STRAINER.							
HB-1 	HOSE BIBB (EXTERIOR)	WOODFORD ZURN JOSAM J.R. SMITH MIFAB WATTS DRAINAGE WADE PRIER	65 Z1321-C 71050 5600T HY1000 HY-420 W-8600 C634				3/4
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. NON-FREEZE. 3. INTEGRAL VACUUM BREAKER. 4. CHROME FINISH. 5. 12" MINIMUM LENGTH, 18" IF POSSIBLE.							
L-1 	LAVATORY (COUNTERTOP) (A.D.A.)  FAUCET  STOPS  SUPPLY  PROTECTIVE PIPE COVERS	KOHLER AMERICAN STANDARD BRIGGS CRANE  KOHLER AMERICAN STANDARD MOEN CHICAGO FAUCET SYMMONS  BRIGGS/SAYCO NIBCO NIBCO WATTS B&T  BRASSCRAFT WATTS B&T  TRUEBRO PLUMBEREX	PENNINGTON K-2196-1N AQUALYN 0476.028 OAKBROOK 6534 ACCESS PRO 1580  CORALAIS K-15182-P RELIANT 7385.003 VILLETA L4701 420-CP S-20-FR-IPS  S1503 7105 ANGLE STOP 7100 STRAIGHT STOP  CHROME PLATED CHROME PLATED  102-EZ 105-EZ 2003	1-1/2	1-1/2	1/2	1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. VITREOUS CHINA / SELF-RIMMING 3. FAUCET HOLES AT 4" ON CENTER. 4. FAUCET WITH FLOW RESTRICTOR AND AERATOR. 5. INTEGRAL PERFORATED GRID DRAIN. 6. 17 GAUGE CHROME PLATED TUBE "P" TRAP. 7. CHROME PLATED SUPPLY PIPES AND STOPS.							
MV-1 	MIXING VALVE	LEONARD SYMMONS LAWLER MFG. BRADLEY	TM-50 5-400 66-50 S59-2080			110°F 1 140°F 3/4	3/4
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. THERMOSTATIC MIXING VALVE. 3. COMBINATION STRAINER, CHECK AND STOPS. 4. SET TO MIX 140 DEG. F. WATER TO 110 DEG. F. 5. SET AT 34 GPM AT 20 P.S.I. DIFFERENTIAL.							
PRV-1 	WATER PRESSURE REDUCING VALVE  BALL VALVE  BACKFLOW PREVENTER  PRESSURE GAUGE	WATTS  NIBCO  WATTS  TRERICE	UB5  S-590  909  500X				1-1/4
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. ALL BRONZE PRESSURE REDUCER WITH INTEGRAL STRAINER. 3. 0 TO 200 P.S.I. PRESSURE GAUGE 4. SET REDUCING VALVE TO 50 P.S.I. 5. SEE DETAIL ON DRAWING.							
REF-1	REFRIGERATOR CONNECTION	GUY GRAY	M1B4				1/2
NOTES: 1. ICE MAKER BOX 2. POWDER COATED							

*PLUMBING FIXTURE SCHEDULE*							
SYMBOL	FIXTURE	MANUFACTURE	MODEL	WASTE	VENT	H.W.	C.W.
RP-1 	RECIRCULATING PUMP	GRUNDFOS	UP15-18SF				3/4
NOTES: 1. FLANGE SIZE 3/4" 2. 1 SPEED 3. 120v/60h/1p - 1/25 H.P. - 85 WATTS 4. PROVIDE BALANCING VALVE WITH DISCHARGE SET AT 3 GPM.							
SS-1 	SERVICE SINK (FLOOR TYPE)  FAUCET  RIM GUARD	KOHLER AMERICAN STANDARD  KOHLER AMERICAN STANDARD CHICAGO FAUCET T&S BRASS  KOHLER AMERICAN STANDARD	WHITBY K-6710 FLORWELL 7741.000  K-8907 8344.112.002 897-RCF B-0665-RGH  K-8940 7745.811	3	1-1/2	1/2	1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. ENAMELED CAST IRON. 3. RIM GUARD 4. FAUCET WITH FLOW RESTRICTOR AND AERATOR MOUNTED AT 42" A.F.F. 5. INTEGRAL PERFORATED GRID DRAIN. 6. CAST IRON "P" TRAP. 7. 60" HOSE WITH HOSE HOOK.							
SH-1 	SHOWER STALL (A.D.A.)  SHOWER VALVE	LASCO  KOHLER AMERICAN STANDARD MOEN SYMMONS  KOHLER AMERICAN STANDARD MOEN	FREEDOM LINE 3636-BFS  TRITON K-T6910-4A T675.501XH & R120SS HOSPITALITY 8325 TSP-56-300-H321-X-LR-V  K9513/K8516/K8501 1662.551 3867	2	1-1/2	1/2	1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. OPEN PIECE ACRYLIC 36"x36" 3. PRESSURE BALANCED VALVE 4. 2-1/2 G.P.M. FLOW RESTRICTOR. 5. SINGLE LEVER HANDLE FAUCET, CHROME FINISHED. 6. BALL JOINT, ARM AND ESCUTCHEON. 7. 2-1/2 G.P.M. FLOW RESTRICTOR. 8. 69" METAL HOSE WITH SHOWER HEAD AND 24" SLIDE BAR. 9. WRAP AROUND GRAB BAR. 10. CURTAIN ROD. 11. SERVICE STOPS. 12. VACUUM BREAKER.							
S-1 	SINK (COUNTERTOP) (DOUBLE COMPARTMENT)  FAUCET (GOOSENECK)  DISPOSAL  STAINLESS STEEL CUP STRAINER  STOPS  SUPPLIES	ELKAY JUST KOHLER  ELKAY JUST KOHLER CHICAGO FAUCET T&S BRASS  IN-SINK-AERATOR  ELKAY JUST KOHLER  NIBCO NIBCO  BRASSCRAFT WATTS B&T	PSR3321 CDL-2133-B-GR K-3145-4  LKDC2432BH J-1174-KS K-10445-CP 786-GNBA-E3-XK B-2866-05  EVOLUTION COMPACT  LK-35 J-35 K-8813  7105 ANGLE STOP 7100 STRAIGHT STOP  CHROME PLATED CHROME PLATED	1-1/2	1-1/2	1/2	1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. 18 GAUGE TYPE 302 STAINLESS STEEL, SOUND DEADENED. 3. 33"x19" BY 7-1/2" DEEP, DOUBLE COMPARTMENT. 4. SELF-RIMMING 5. FOUR FAUCET HOLES. 6. FAUCET WITH GOOSENECK SWING SPOUT, AERATOR AND LEVER HANDLES. 7. CHROME PLATED SUPPLY PIPES AND STOPS. 8. 17 GAUGE CHROME PLATED TUBE "P" TRAP. 9. DISPOSAL 120v/60h/1p - 3/4 H.P. MOTOR							
U-1 	URINAL (WALL HUNG)  FLUSH VALVE (EXPOSED)  WALL SUPPORT	KOHLER AMERICAN STANDARD CRANE  SLOAN ZURN DELANY  JOSAM J.R. SMITH MIFAB WADE WATTS ZURN	BARDON K-4960-ET WASHBROOK 6590.005 CRAWFORD 7399  REGAL 186-0.5 Z6003AV-WSI I-1451-0B  17810 637 MC-32 W-400-AM11 CA-321 Z1222	2	1-1/2		3/4
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. VITREOUS CHINA 3. SIPHON JET FLUSH - 0.7 GALLON PER FLUSH. 4. 3/4" TOP SPUD. 5. INSTALL RIM AT 24" A.F.F. FOR STANDARD INSTALLATION. 6. INSTALL RIM AT 17" A.F.F. TO MEET A.D.A. REQUIREMENTS.							
WC-1 	WATER CLOSET (FLOOR TYPE) (TANK TYPE) (A.D.A.)  SEAT  STOP  SUPPLY	KOHLER AMERICAN STANDARD TOTO  CHURCH BEMS COMFORT SEATS BENEKE  NIBCO NIBCO  BRASSCRAFT WATTS B&T	HIGHLINE K-3519 CADET 3 2835.128 ECO PROMENADA CST424EF  295C 1955-C C106C 523  7105 ANGLE STOP 7100 STRAIGHT STOP  CHROME PLATED CHROME PLATED	4	2		1/2
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. 1.28 GALLONS PER FLUSH. 3. VITREOUS CHINA. 4. ELONGATED BOWL - TANK TYPE. 5. OPEN FRONT SEAT WITH STAINLESS STEEL HINGE POST AND CHECK. 6. CHROME PLATED SUPPLY PIPE AND STOP.							

*PLUMBING FIXTURE SCHEDULE*							
SYMBOL	FIXTURE	MANUFACTURE	MODEL	WASTE	VENT	H.W.	C.W.
WH-1 	WATER HEATER (PROPANE)  EXPANSION TANK  PRESSURE RELIEF VALVE	BRADFORD WHITE  AMTROL WATTS REGULATOR ELBI  WATT	PDX-65S-65B-3X  ST-25V DETA-30 XT-30  40L				3/4  3/4
NOTES: 1. CHOOSE ONE MANUFACTURE FOR EACH CATEGORY. 2. RECOVERY RATE OF 6.3 G.P.H. AT A 100°F. TEMPERATURE RISE. 3. 54 GALLON GLASS LINED STORAGE TANK 4. ENAMELED STEEL JACKET WITH HIGH DENSITY FIREGLASS INSULATION. 5. 150 P.S.I. WORKING PRESSURE. 6. 65,000 BTUH PROPANE - 3" VENT AND 3" AIR INTAKE 7. ASME AND U.L. LISTED. 8. 5 YEAR WARRANTY. 9. SET WATER TEMPERATURE AT 140°F. 10. SEE DETAIL ON DRAWINGS.							

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04 • 06 • 10	09019

PLUMBING SCHEDULES

**P**  
**104**

## FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	8 PENDANT MOUNTED INDIRECT; 3 LAMPS PER 4; PERFORATED HOUSING, ADJUSTABLE AIRRAFT CABLE SUSPENSION DUST COVER	PEARLESS 10CRM7 332 R8 120 EB SGT LALP F1 XX SCEP DU	120	(3) F32 T8 B35 PER 4
B	12 PENDANT MOUNTED INDIRECT; 3 LAMPS PER 4; PERFORATED HOUSING, ADJUSTABLE AIRRAFT CABLE SUSPENSION DUST COVER DUAL LEVEL SWITCHING	PEARLESS 10CRM7 332 R16 120 EB DCT LALP F1 XX SCEP DU	120	(3) F32 T8 B35 PER 4
C	4 STRIP LIGHT; 2 LAMP	LITHONIA C232 WS	120	(2) F32 T8 B35
D	RECESSED FLUORESCENT CAN; 8 APPARATUS; HORIZONTAL LAMP; CLEAR ALZAK LENS; ELECTRONIC BALLAST	GOTHAM AF132TRT 6AR LD 120	120	(1) 32W T8 39K
DE	RECESSED FLUORESCENT CAN; 8 APPARATUS; HORIZONTAL LAMP; CLEAR ALZAK LENS; ELECTRONIC BALLAST EMERGENCY BATTERY PACK; INTEGRAL TEST SWITCH	GOTHAM AF132TRT 6AR LD 120 EL	120	(1) 32W T8 39K
E	RECESSED FLUORESCENT CAN; 8 APPARATUS; HORIZONTAL LAMP; LENSED SHOWER LIGHT; ELECTRONIC BALLAST	GOTHAM AF132TRT 6AR CAL	120	(1) 32W T8 39K
F	WALL MOUNTED FLUORESCENT; 2 LAMP PERFORATED METAL	PROUDENTIAL WAL-14 P 218 04 BAL SC 120 WM	120	(2) F32 T8 B35
G	EXTERIOR WALL MOUNTED FLUORESCENT; COLOR BY ARCHITECT INCLUDING BRONZE, BLACK, WHITE, NATURAL ALUMINUM PAINT	GARDCO 101 MT 222TRF 120 NP	120	(2) 32W T8 39K
GE	EXTERIOR WALL MOUNTED FLUORESCENT; REMOTE EMERGENCY BATTERY	GARDCO 101 EMR MT 222TRF 120 NP B84CG	120	(1) 150W P8MH
H	EXTERIOR POLE LIGHT 12 SQUARE STEEL POLE	GARDCO G15 1 EXL 150P8MH 120 NP F CM 12 D1 NP	120	(1) 150W P8MH
J	8 INDUSTRIAL APERTURED REFLECTOR 10% UPLIGHT 2 LAMPS PER 4	LITHONIA TAF10 232 120 ACEP	120	(2) F32 T8 B35 PER 4
JE	8 INDUSTRIAL APERTURED REFLECTOR 10% UPLIGHT 2 LAMPS PER 4; 1400 LUMEN EMERGENCY BATTERY	LITHONIA TAF10 232 120 ACEP EL14	120	(2) F32 T8 B35 PER 4
K	RECESSED FLUORESCENT CAN DAMP LABEL COLOR BY ARCHITECT INCLUDING BRONZE, BLACK, WHITE, NATURAL ALUMINUM PAINT	GARDCO 220 F 32 TRT 120 NP F	120	(1) 32W T8 39K
XI	DECAST EXIT LIGHT; LED	LITHONIA LES WYG 120 ELN	120	INCLUDED

LIGHT FIXTURE ABBREVIATION SCHEDULE		LIGHT FIXTURE GENERAL NOTES	
NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.			
A.F.F.	ABOVE FINISH FLOOR	1.	REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	4.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT	5.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT		
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED		

### BIDDING REQUIREMENTS

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
- PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
- WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
- WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

### PRIOR APPROVAL REQUIREMENTS

- PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
- PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
- ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
- IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
- PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
- SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

### LIGHTING SHOP DRAWING REQUIREMENTS

- REFER TO SPECIFICATIONS 16001, 16510 & 16551.
- MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
- LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
- COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
- CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAME.
- VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.
- PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

## GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
- SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

## ELECTRICAL SYMBOL SCHEDULE

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
  - HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
  - REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
  - SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
  - NEMA TYPE "N" NON-FUSED UNLESS NOTED "F" (FUSED). USE "HP" 480 V.
  - HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
  - PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
  - DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
  - COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
  - SUBSCRIPT DENOTES NEMA CONFIGURATION.
  - HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
- \* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS				STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL				JUNCTION BOX (1" IN FLOOR)	AS NOTED	
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN				MOTOR OUTLET	TO SUIT EQUIP.	
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN				PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
	CONDUIT RUN CONCEALED IN WALL OR CEILING				TIME CLOCK	+5'-0"	2.
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				PUSHBUTTON	+4'-0"	2.
	CONDUIT UP				NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
	CONDUIT DOWN				FUSED DISCONNECT SWITCH	+5'-0"	5.
	CONDUIT STUB LOCATION	CAP CONDUIT			MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
	CABLE TRAY	AS NOTED			MAGNETIC STARTER	+5'-0"	7.
	CEILING LIGHT FIXTURE	CEILING	1.		MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
	WALL LIGHT FIXTURE	AS NOTED	1.		VARIABLE FREQUENCY DRIVE	+6'-6"	
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.		PANEL BOARD	TOP AT +6'-0"	
	FLUORESCENT LIGHT FIXTURE	AS NOTED	1		MAIN DISTRIBUTION PANEL		
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED		TELEPHONE TERMINAL BOARD		
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM		BELL	+7'-6"	
	FLOOD OR TRACK FIXTURE	AS NOTED			CHIME	+7'-6"	
	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.		FIRE ALARM MANUAL STATION	+4'-0"	2.
	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.		FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.
	SINGLE POLE SWITCH	+4'-0"	2.		FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
	SINGLE POLE SWITCH WITH PILOT LIGHT	+4'-0"	4, 2.		FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
	THREE-WAY SWITCH	+4'-0"	2.		SMOKE DETECTOR	CEILING	
	FOUR-WAY SWITCH	+4'-0"	2.		DUCT SMOKE DETECTOR		MTD. IN DUCT
	KEY OPERATED SWITCH	+4'-0"	2.		HEAT DETECTOR	CEILING	
	SWITCH WITH PILOT LIGHT	+4'-0"	2.		FIRE/SMOKE DAMPER		
	VARIABLE INTENSITY SWITCH	+4'-0"	2.		DOOR HOLDER	AS NOTED	
	TIMER SWITCH	+4'-0"	2.		FLOW SWITCH		
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.		TAMPER SWITCH		
	OCCUPANCY SENSOR	CEILING			WATER FLOOD INDICATOR		
	OCCUPANCY SENSOR	+4'-0"	2.		O.S. & Y. VALVE		SEE DIAGRAM
	POWER PACK	CEILING	SEE DIAGRAM, SPEC.		FIRE ALARM RELAY		
	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.		FIRE ALARM CONTROL MODULE		
	LOW VOLTAGE TRANSFORMER				FIRE ALARM MONITOR MODULE		
	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED	9, 11.		FIRE ALARM STROBE	+6'-8"	6.
	SIMPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.		DURESS PUSHBUTTON	+4'-0"	
	DUPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.		SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
	DUPLEX RECEPTACLE		9.		SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER. MAN
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM		MAGNETIC SHEAR LOCK		
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2, 9.		SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.
	ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED	9, 11.		INFRARED SENSOR	AS NOTED	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.		SECURITY MOTION DETECTOR		MOUNT AS PER. MAN
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9, 11.		GLASS BREAK DETECTOR	CEILING	
	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.		ELECTRIC DOOR STRIKE		
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9, 11.		ACCESS CONTROL CARD READER	+4'-0"	2.
	FLOOR OUTLET WITH 20A DEVICE	FLOOR			CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
	MULTIPLE SERVICE FLOOR BOX	FLOOR			DOOR POSITION INDICATING SWITCH		
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10, WITH CAP. 11.		SOUND SYSTEM SPEAKER	+8'-0" OR AS NOTED	
	CORD DROP	SEE DIAGRAM			INTERCOM SPEAKER	AS NOTED	
	PLUGMOLD	+46" OR AS NOTED			VOLUME CONTROL	+4'-0"	2.
	TELEVISION OUTLET	+16" OR AS NOTED	11.		MICROPHONE OUTLET	+16"	11.
	DATA OUTLET	+16" OR AS NOTED	9, 11.		MICROPHONE FLOOR OUTLET	FLOOR	
	TELEPHONE OUTLET	+16" OR AS NOTED	9, 11.		MICROPHONE CEILING OUTLET	CEILING	
	TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9, 11.		SOUND EQUIPMENT CABINET		CIRCUIT TO 120V
	TELEPHONE OUTLET	FLOOR			ARCHITECTURAL ROOM NUMBER		
	CALL SWITCH	+4'-0"	2.		LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	CLOCK	+7'-6"	8.		EQUIPMENT NUMBER		
	CLOCK/SPEAKER COMBINATION	+7'-6"					

## INDEX OF ELECTRICAL DRAWINGS

- E001 SYMBOLS, SCHEDULES AND NOTES
- E100 ELECTRICAL SITE PLAN
- E200 LIGHTING PLAN
- E300 POWER PLAN
- E400 ONE-LINE DIAGRAM, EQUIPMENT AND PANELBOARD SCHEDULES
- E500 ELECTRICAL DIAGRAMS

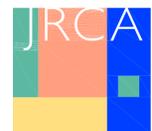
## CONSTRUCTION DOCUMENTS

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DFCM PROJECT #09259520  
HOOPER, UTAH

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SYMBOLS,  
SCHEDULES  
& NOTES

E  
001

SHEET KEYNOTES

- ① CIRCUIT THROUGH LIGHTING CONTACTOR.
- ② PROVIDE A 4" CONDUIT TO EXISTING COMMUNICATIONS VAULT.  
PROVIDE PULL ROPE.

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ELECTRICAL  
SITE PLAN

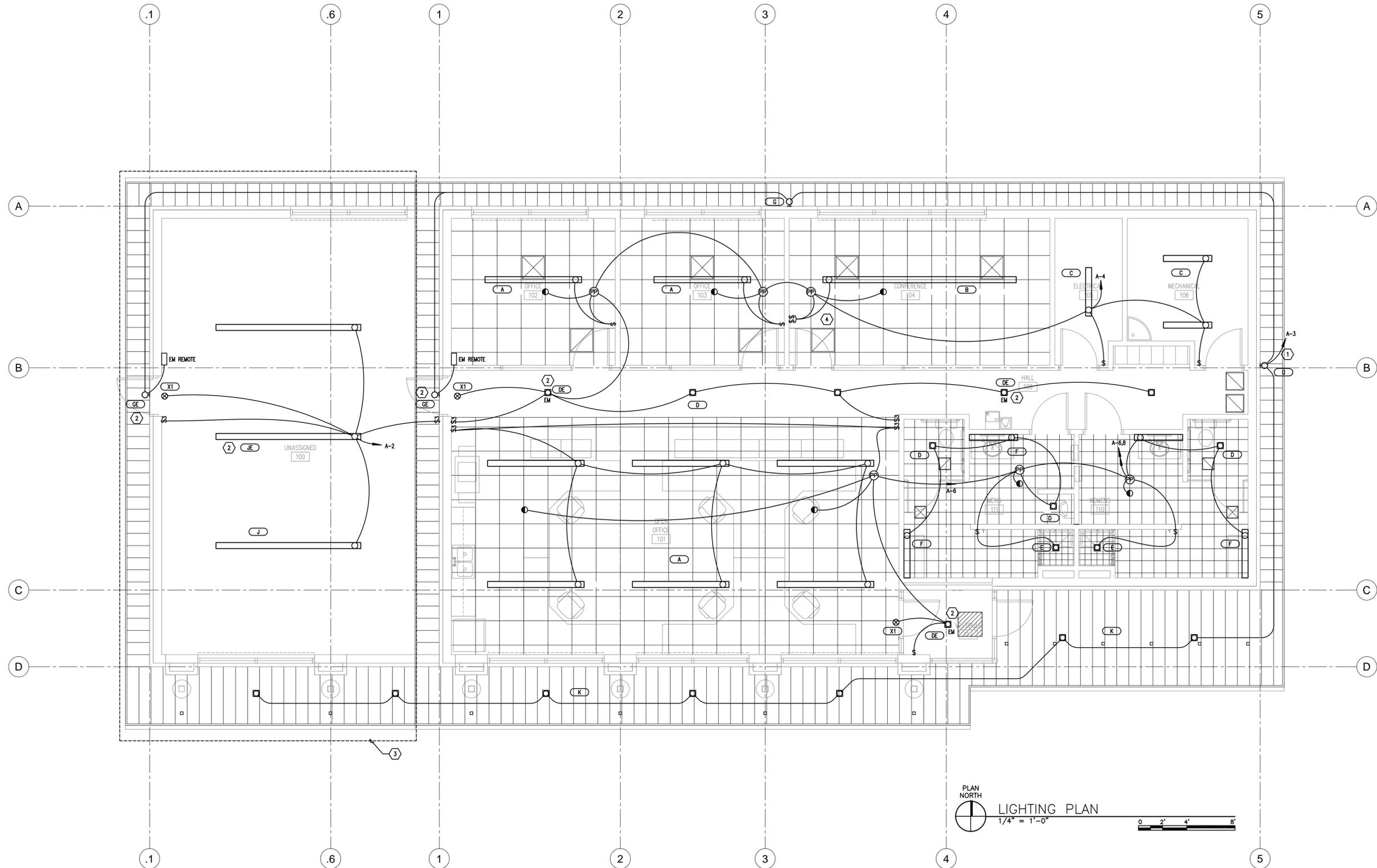
E  
100



By: bharmani; Jun 15, 2010 - 1:55pm  
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# SHEET KEYNOTES

- ① CIRCUIT THROUGH LIGHTING CONTACTOR.
- ② EXTEND A HOT CONDUCTOR AHEAD OF THE SWITCH OR CONTACTOR TO THE EMERGENCY BATTERY PACK.
- ③ ADD ALTERNATE NO.1. IF ADD ALTERNATE IS ACCEPTED, DELETE TYPE G FIXTURE ON GRID LINE 1.
- ④ SWITCH INSIDE LAMPS WITH FIRST SWITCH AND OUTSIDE LAMPS WITH SECOND SWITCH.



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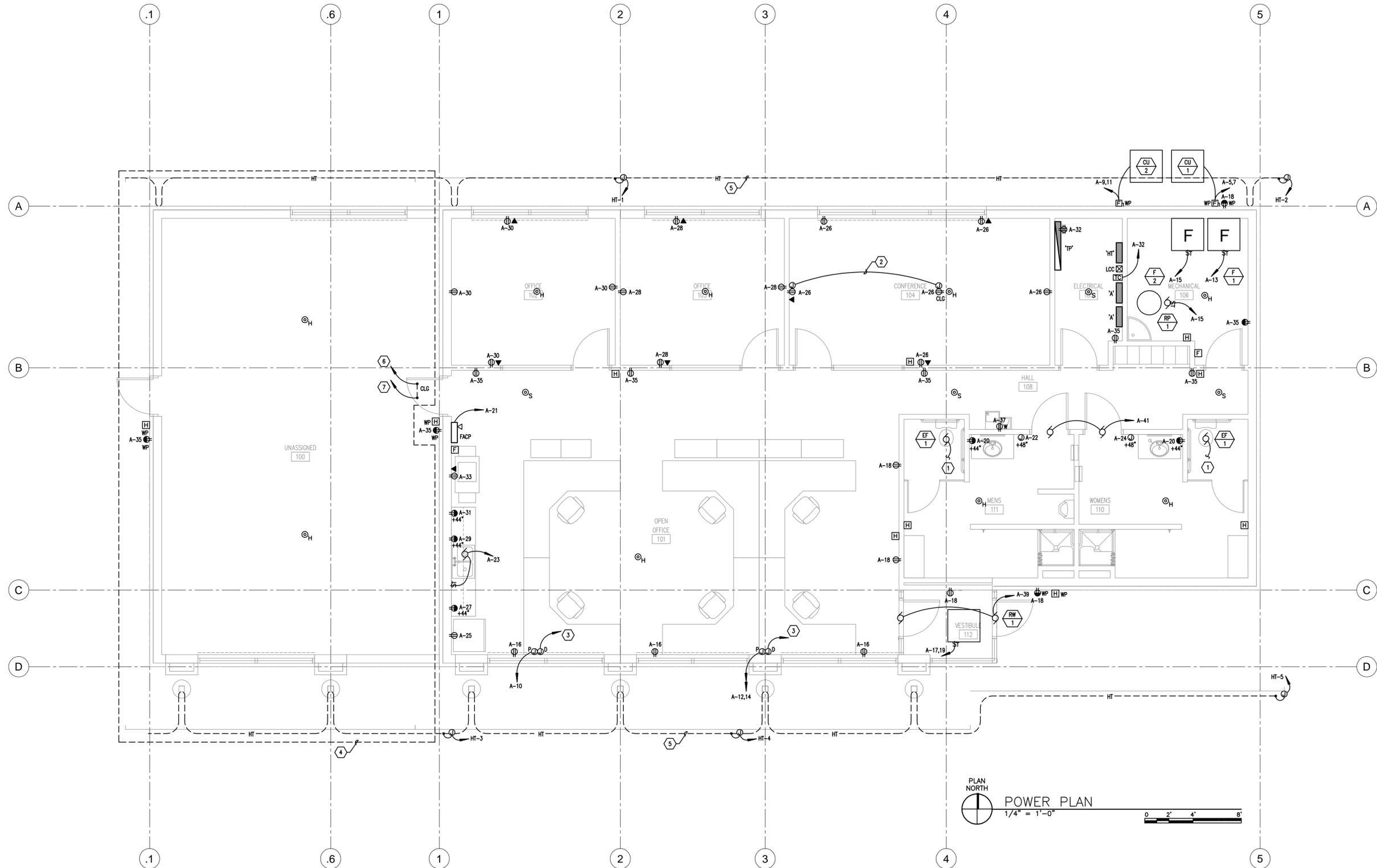
LIGHTING PLAN

**E**  
**200**

By: bharmandi, Jun 15, 2010 - 1:56pm  
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# SHEET KEYNOTES

- 1 CIRCUIT TO LIGHTING CIRCUIT. CONTROL WITH OCCUPANCY SENSOR.
- 2 PROVIDE A 1" CONDUIT TO LAY-IN CEILING FOR FUTURE PROJECTOR CABLE.
- 3 PROVIDE A 1-1/2" CONDUIT TO TP FOR FUTURE TELEPHONE/DATA CABLES.
- 4 ADD ALTERNATE NO.1 IF ADD ALTERNATE IS ACCEPTED CHANGE WEATHER PROOF HORN/STROBE AND CONVENIENCE OUTLET AT GRID 1 TO NON WEATHERPROOF.
- 5 PROVIDE RAYCHEM GM-1XT-120 SELF REGULATING HEAT CABLE IN GUTTER AND DOWNSPOUTS. CABLE SHALL LOOP UP AND DOWN DOWNSPOUT AND LOOP 18" INTO CATCH BASINS PROVIDE END CAPS AT END OF EACH RUN. PROVIDE DOWNSPOUT HANGERS AT EACH DOWNSPOUT.
- 6 STUB (4) 3/4" CONDUITS TO PANEL A, SECTION 2 PROVIDE PULL STRING.
- 7 STUB (4) 1" CONDUITS TO TELEPHONE PANEL PROVIDE PULL STRING.



CONSTRUCTION DOCUMENTS

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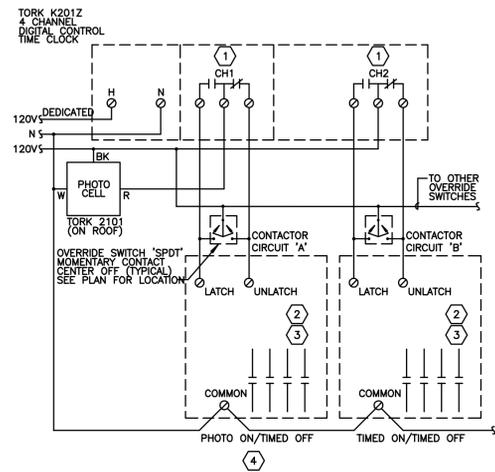
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POWER PLAN

**E**  
**300**

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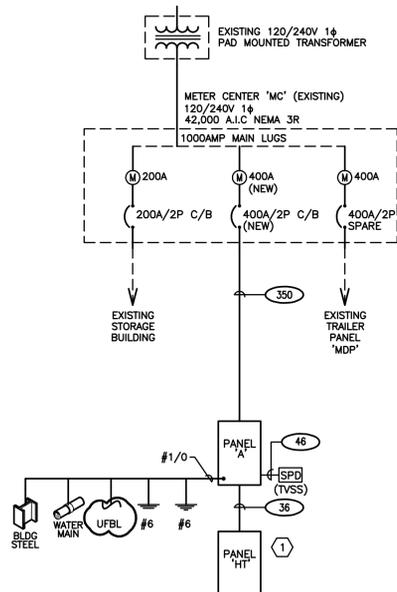
REFERENCE NOTES

- 1 TIMED ON/TIMED OFF EACH CHANNEL CAN BE SET FOR MULTIPLE ON/OFF SCHEDULING.
- 2 SEE CONTACTOR SCHEDULE FOR NUMBER OF POLES REQUIRED AND CIRCUIT.
- 3 MECHANICALLY HELD CONTACTORS WITH COIL CLEARING CONTACTS SQUARE-D CLASS 8903.
- 4 CONTACTOR CAN BE PROGRAMMED FOR PHOTO ON / PHOTO OFF.

CONTACTOR SCHEDULE

CONTACTOR #	CIRCUITS CONTROLLED	CONTACTOR SIZE	CONTACTOR PANEL	CONTACTOR CIRCUIT CONTROLLED
1	A-1	20A/1P	LCC	'A' (PHOTO ON/TIMED OFF)
2	A-3	20A/1P	LCC	'B' (PHOTO ON/TIMED OFF)
3				
4				

DIAGRAM P005 LIGHTING CONTROL NTS



1 ONE-LINE DIAGRAM NO SCALE

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRES			OCBP		REF. NOTES		REMARKS
							NO. SETS	NO.	SIZE	EQUIP. GND (1)	TYPE	AMPS	STARTER	
CU-1	CONDENSING UNIT	38 MCA	230	1	30.40	3/4"	1	2	8	10	CB	50	2A	
CU-2	CONDENSING UNIT	22 MCA	230	1	17.60	3/4"	1	2	10	10	CB	30	2A	
DF-1	DRINK FOUNTAIN	4 FLA	120	1	4.00	3/4"	1	2	12	12	CB	15	12A	
EF-1	EXHAUST FAN	113 VA	120	1	0.94	3/4"	1	2	12	12	CB	15		SWITCH WITH LIGHTS
F-1	FURNACE	12.9 FLA	120	1	12.90	3/4"	1	2	12	12	CB	20	4A	
F-2	FURNACE	8.4 FLA	120	1	8.40	3/4"	1	2	12	12	CB	20	4A	
RH-1	RADIANT HEATER	375 VA	230	1	1.63	3/4"	1	2	12	12	CB	15	2A	
RP-1	RECIRCULATING PUMP	1025 HP	120	1	1.75	3/4"	1	2	12	12	CB	15	4A	

- NOTES:
- NON-FUSED DISCONNECT SWITCH
  - FUSED DISCONNECT SWITCH
  - BREAKER IN ENCLOSURE
  - MANUAL STARTER WITH THERMAL OVERLOAD
  - MAGNETIC STARTER
  - MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
  - MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
  - MAGNETIC STARTER/BREAKER COMBINATION
  - VARIABLE FREQUENCY DRIVE
  - REDUCED VOLTAGE STARTER
  - DIRECT CONNECTION
  - RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
  - TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE
  - SOLID STATE SOFT STARTER
- A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16  
 B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16  
 C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16  
 D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.
- CB = CIRCUIT BREAKER - THERMAL MAGNETIC  
 CKW = CHILLER KILOWATTS
- NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

PANELBOARD SCHEDULE

PANEL A TYPE NCOB 120/240 VOLTS 1 PH 3 W

MOUNTING: FLUSH DIMENSIONS: 20 W, 6 D (H), H LOCATION: ELECT RM MAINS X BREAKER, X LUGS, X SUBFEED LUGS, X ISO GROUND, 200% NEUTRAL

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	L. PHASE LOAD		R. PHASE LOAD		CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	A	B						
PARKING LOT LIGHTING	20	1	12	1	180		244		2	20	1	12	SHELL SPACE TEMP/LTG	
EXTERIOR BUILDING LTG	20	1	12	3					825	4	20	1	12	OFF. CONF. MECH. LTG
CU-1	50	2	8	5	3600		876		8	20	1	12	OFFICE LIGHTING	
CU-2	30	2	10	7	2112		3600		8	20	1	12	RESTROOM	
F-1	20	1	12	11	1548		2112		12	20	1	12	SYSTEMS FURNITURE CO'S	
F-2, RP-1	20	1	12	15	1128		720		14	20	1	12	SYSTEMS FURNITURE CO'S	
RH-1	15	2	12	17	187		540		18	20	1	12	OFFICE OUTLETS	
				19			187		350	20	20	1	12	EXTERIOR CO'S
FIRE ALARM PANEL	20	1	12	21	500		2000		22	30	1	10	HAND DRYER	
DISPOSAL	20	1	12	23	1200		1200		24	30	1	10	HAND DRYER	
REFRIGERATOR	20	1	12	25	1200		1080		26	20	1	12	CONFERENCE CO'S	
COUNTER OUTLET	20	1	12	27	500		720		28	20	1	12	OFFICE CO'S	
COUNTER OUTLET	20	1	12	29	500		720		30	20	1	12	OFFICE CO'S	
COUNTER OUTLET	20	1	12	31	500		500		32	20	1	12	TELEPHONE, TIMELOCK CO'S	
COPY MACHINE	20	1	12	33	500				34	20	1		SPARE	
HALL EXTERIOR CO'S	20	1	12	35	1280				36	20	1		SPARE	
DRINKING FOUNTAIN CO'S	20	1	12	37	540				38	20	1		SPARE	
ADA DOOR OPENERS	20	1	12	39			100		40	50	2	6	HEAT CABLE PNL.	
ADA DOOR OPENERS	20	1	12	41					42				HT	
					10867	10867	9980	9168						CONNECTED LOAD TOTAL
					20767	19755	TOTAL							40622 W
					173	165	AMPS/PHASE							EQUIP RATING
														22,000

PANELBOARD SCHEDULE

PANEL A TYPE NCOB 120/240 VOLTS 1 PH 3 W

MOUNTING: FLUSH DIMENSIONS: 20 W, 6 D (H), H LOCATION: ELECT RM MAINS X BREAKER, X LUGS, X SUBFEED LUGS, X ISO GROUND, 200% NEUTRAL

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	L. PHASE LOAD		R. PHASE LOAD		CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	A	B						
SPARE	20	1	12	43					44	20	1	12	SPARE	
SPARE	20	1	12	45					46	20	1	12	SPARE	
SPARE	20	1	12	47					48	20	1	12	SPARE	
SPARE	20	1	12	49					50	20	1	12	SPARE	
SPARE	20	1	12	51					52	20	1	12	SPARE	
SPARE	20	1	12	53					54	20	1	12	SPARE	
SPARE	20	1	12	55					56	20	1	12	SPARE	
SPARE	20	1	12	57					58	20	1	12	SPARE	
SPARE	20	1	12	59					60	20	1	12	SPARE	
SPARE	20	1	12	61					62	20	1	12	SPARE	
SPARE	20	1	12	63					64	20	1	12	SPARE	
SPARE	20	1	12	65					66	20	1	12	SPARE	
SPACE ONLY				67					68				SPACE ONLY	
SPACE ONLY				69					70				SPACE ONLY	
SPACE ONLY				71					72				SPACE ONLY	
SPACE ONLY				73					74				SPACE ONLY	
SPACE ONLY				75					76				SPACE ONLY	
SPACE ONLY				77					78				SPACE ONLY	
SPACE ONLY				79					80				SPACE ONLY	
SPACE ONLY				81					82				SPACE ONLY	
SPACE ONLY				83					84				SPACE ONLY	
					20767	19755	TOTAL							CONNECTED LOAD TOTAL
					173	165	AMPS/PHASE							EQUIP RATING
														22,000

SHEET KEYNOTES

- 1 PROVIDE RAYCHEM HTPG-120/240-12-2-5/1P-12-50GP HEAT TAPE CONTROL PANEL WITH GIT-1 GUTTER SENSOR.

COPPER CONDUCTOR & CONDUIT SCHEDULE

TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUIT SIZE	INSUL. ATION	EQ. GND. COND.
(20)	30	3/4"	2	10	THHN	10
(30)	30	3/4"	3	10	THHN	10
(40)	30	3/4"	4	10	THHN	10
(28)	40	3/4"	2	8	THHN	10
(38)	40	3/4"	3	8	THHN	10
(48)	40	3/4"	4	8	THHN	10
(26)	55	3/4"	2	6	THHN	8
(36)	55	3/4"	3	6	THHN	8
(46)	55	3/4"	4	6	THHN	8
(24)	70	1"	2	4	THHN	8
(34)	70	1"	3	4	THHN	8
(44)	70	1-1/4"	4	4	THHN	8
(23)	85	1"	2	3	THHN	8
(33)	85	1"	3	3	THHN	8
(43)	85	1-1/4"	4	3	THHN	8
(32)	95	1-1/4"	3	2	THHN	6
(42)	95	1-1/4"	4	2	THHN	6
(31)	110	1-1/4"	3	1	THHN	6
(41)	110	1-1/2"	4	1	THHN	6
(51)	110	2"	5	1	THHN	6
(31X)	150	1-1/2"	3	1/0	THHN	6
(41X)	150	1-1/2"	4	1/0	THHN	6
(51X)	150	2"	5	1/0	THHN	6
(32X)	175	1-1/2"	3	2/0	THHN	6
(42X)	175	2"	4	2/0	THHN	6
(52X)	175	2"	5	2/0	THHN	6
(33X)	200	2"	3	3/0	THHN	6
(43X)	200	2"	4	3/0	THHN	6
(53X)	200	2-1/2"	5	3/0	THHN	6
(34X)	230	2"	3	4/0	THHN	4
(44X)	230	2-1/2"	4	4/0	THHN	4
(54X)	230	2-1/2"	5	4/0	THHN	4
(325)	255	2"	3	250	THHN	4
(425)	255	2-1/2"	4	250	THHN	4
(525)	255	2-1/2"	5	250	THHN	4
(335)	310	2-1/2"	3	350	THHN	3
(435)	310	3"	4	350	THHN	3
(535)	310	3"	5	350	THHN	3
(340)	335	3"	3	400	THHN	3
(440)	335	3"	4	400	THHN	3
(540)	335	3"	5	400	THHN	3
(350)	380	3-1/2"	3	500	XHHW	3
(450)	380	3-1/2"	4	500	XHHW	3
(550)	380	3-1/2"	5	500	XHHW	3

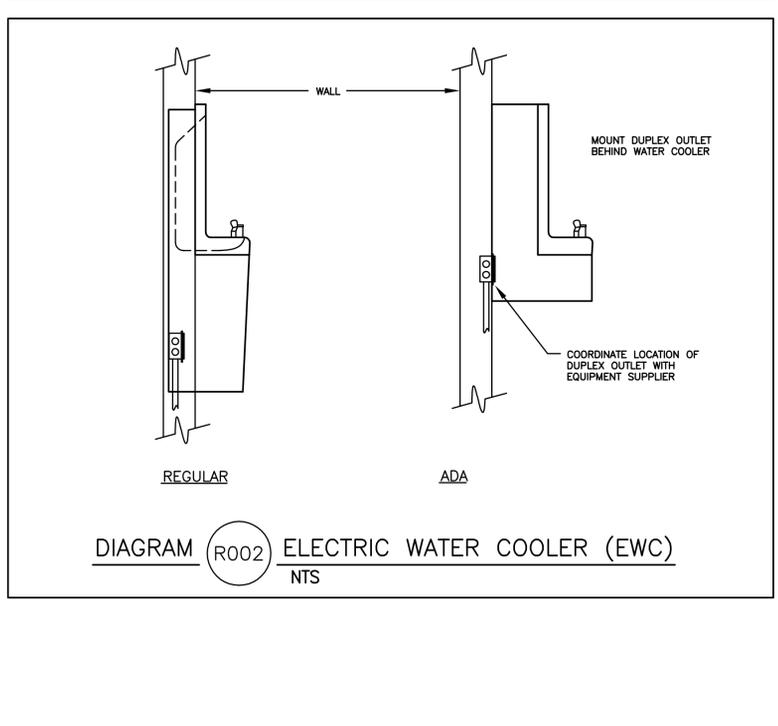
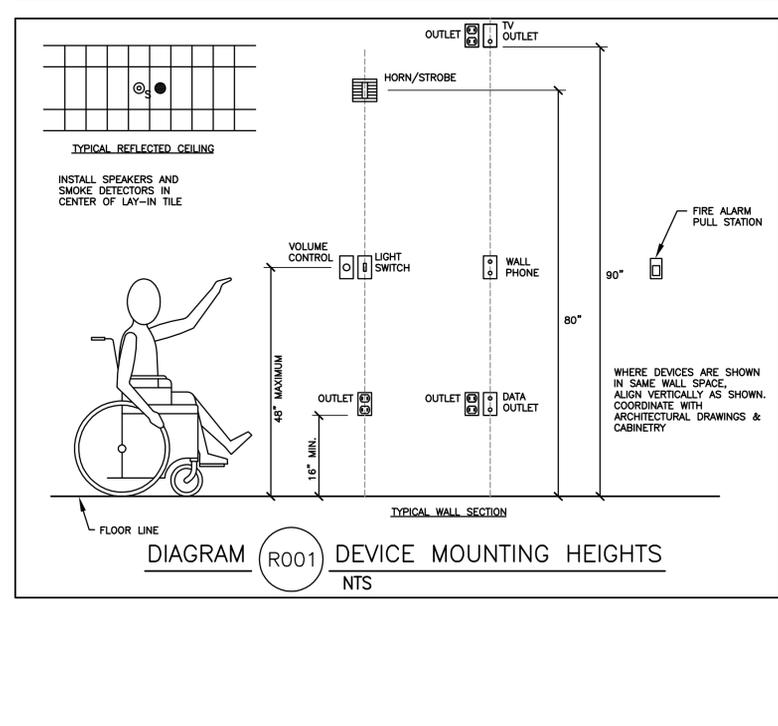
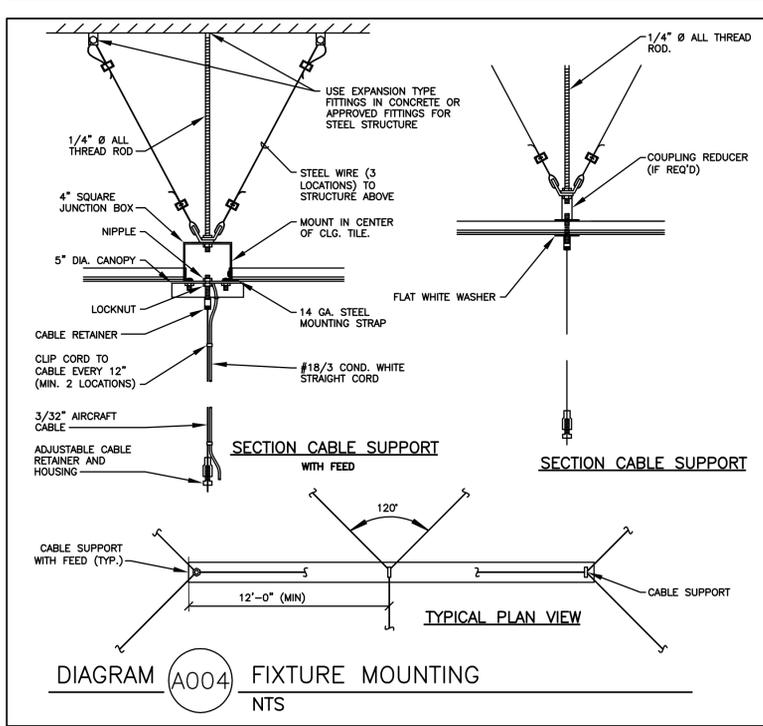
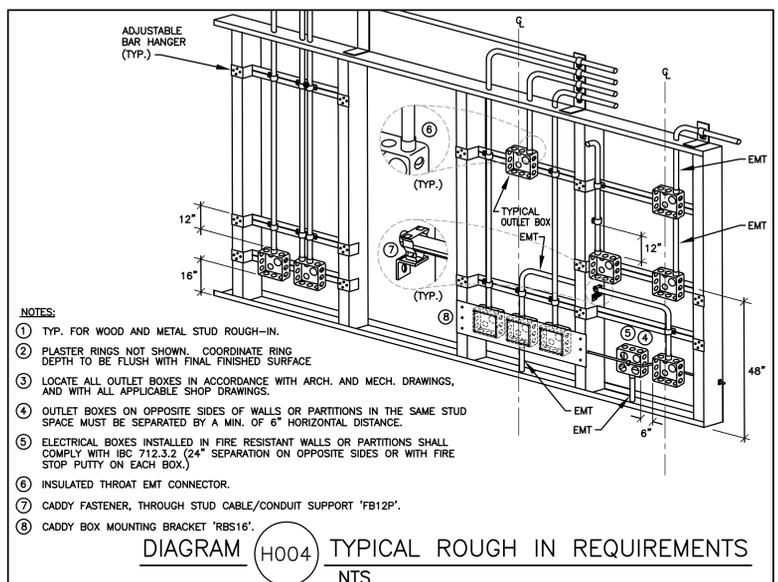
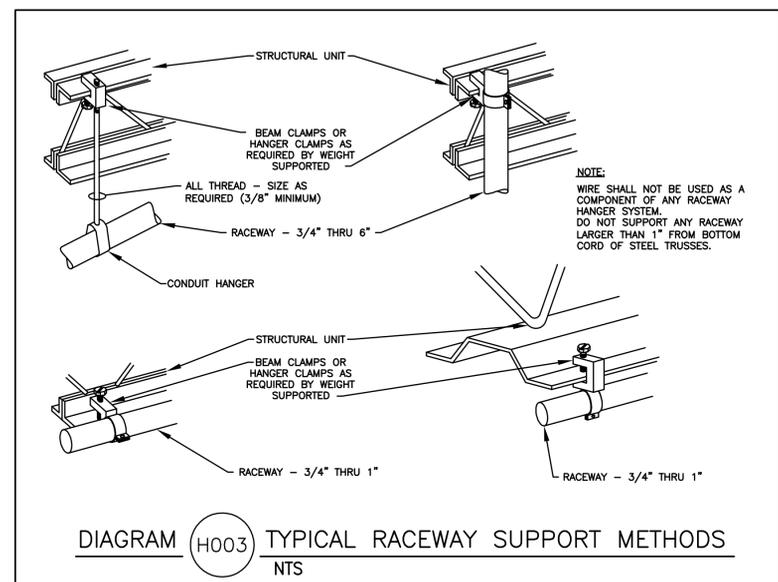
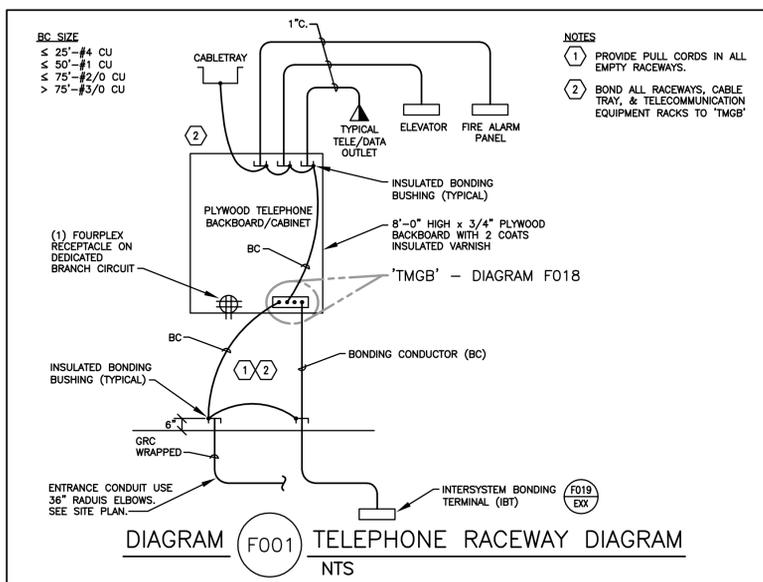
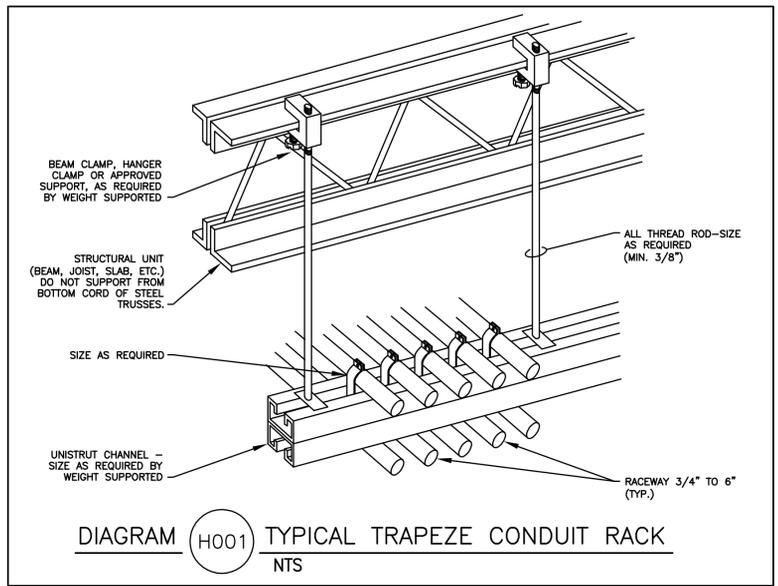
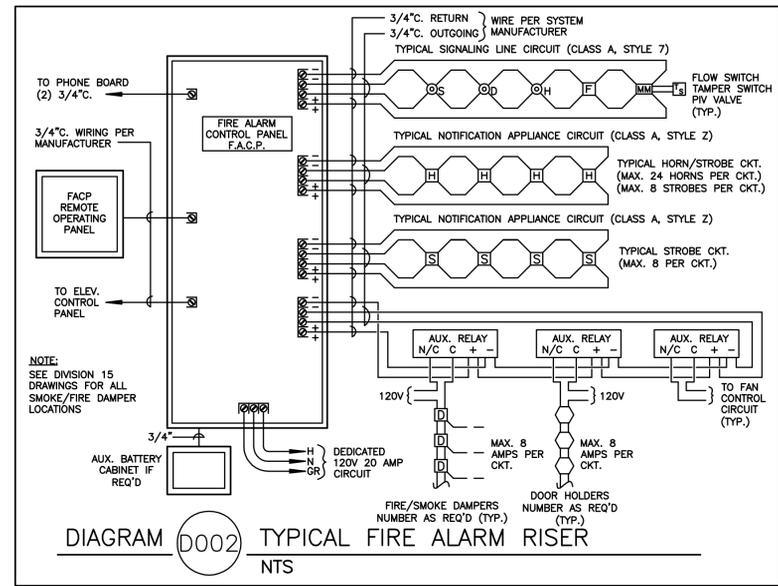
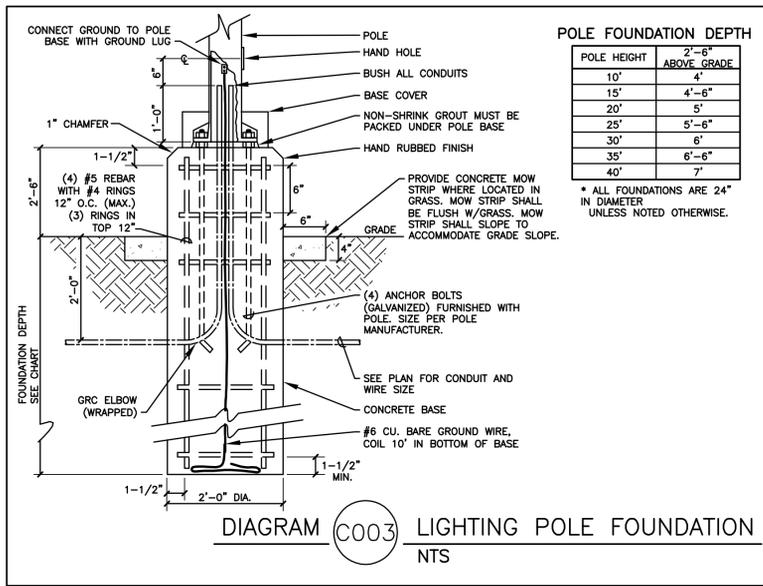
COPPER CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS

TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.
(325-2)	600	510	2	3	250	2-1/2" 1
(425-2)	600	510	2	4	250	2-1/2" 1
(525-2)	600	510	2	5	250	2-1/2" 1
(435-2)	700	620	2	4	350	3" 1/0
(440-2)	700	670	2	4	400	3" 1/0
(350-2)	800	760	2	3	500	3" 1/0
(450-2)	800	760	2	4	500	4" 1/0
(550-2)	800	760	2	5	500	4" 1/0
(460-2)	800	840	2	4	600	4" 1/0
(335-3)	900	930	3	3	350	3" 2/0
(435-3)	900	930	3	4	350	3" 2/0
(535-3)	900	930	3	5	350	3" 2/0
(440-3)	1000	1005	3	3	400	3" 2/0
(540-3)	1000	1005	3	4	400	3" 2/0
(450-3)	1000	1005	3	5	400	3" 2/0
(335-4)	1200	1240	4	4	350	3" 3/0
(435-4)	1200	1240	4	5	350	3" 3/0
(535-4)	1200	1260	3	4	600	4" 3/0
(335-5)	1500	1550	5	3	350	3" 4/0
(440-5)	1600	1675	5	4	400	3" 4/0
(540-5)	1600	1675	5	5	400	3" 4/0
(460-4)	1600	1680	4	4	600	4" 4/0
(560-4)	2000	2010	6	4	400	3" 250
(460-6)	2500	2520	6	4	600	4" 350
(450-8)	3000	3040	8	4	500	4" 400
(450-1)	4000	4180	11	4	500	4" 500

- NOTES:  
 IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.  
 GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS  
 \* 200% NEUTRAL

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CONSTRUCTION DOCUMENTS

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DFCM PROJECT #09259520  
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DATE/REVISION	PROJECT #
04 · 08 · 10	10027A

ELECTRICAL  
DIAGRAMS

**E**  
**500**

By: bharrandi, Jun 15, 2010 - 1:56pm  
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