

DIVISION OF WILDLIFE RESOURCE NEW SHOP AND OFFICE REMODEL

VERNAL, UTAH

DFCM PROJECT NO. 08286520 OFFICE REMODEL

DFCM PROJECT NO. 07319520 NEW SHOP



State of Utah— Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

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

March 27th, 2009

State of Utah

Department of Administrative Services

Division of Facilities
Construction & Management
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architecture | planning | design

CONSULTANT: xyz engineering

PROJECT TITLE:

DIVISION OF WILDLIFE
RESOURCES

NEW SHOP BUILDING

VERNAL, UTAH

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 27th March, 2009

DFCM PROJECT NO: 07319520

CAD PROJECT NO:

CAD DWG FILE:

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SHEET TITLE

COVER SHEET

SHEET NUMBER

A-G1000

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GENERAL
INFORMATION

SHEET NUMBER

A-G1001

ABBREVIATIONS

Reference to materials or methods have been made on the drawings in accordance with the following abbreviations:

#	NUMBER	GWB.	CYPSUM WALL BOARD
'	FEET	GYP. BD.	CYPSUM WALL BOARD
"	INCHES	HC.	HANDICAPPED
&	AND	HW.	HARDWARE
⊙	AT	H.M.	HOLLOW METAL
∅	DIAMETER	HORIZ.	HORIZONTAL
ADJ	ADJUSTABLE	HR.	HOUR
AFF	ABOVE FINISH FLOOR	HT.	HEIGHT
ALUM	ALUMINUM	HVAC	HEATING/VENTILATION/
ASTM	AMERICAN SOCIETY FOR	HYD	HYDRANT
	TESTING MATERIALS	I.D.	INSIDE DIAMETER
ATS	AUTOMATIC TRANSFER	INFO	INFORMATION
	SWITCH	INSUL.	INSULATION
BD	BOARD	LAV.	LAVATORY
BITUM.	BITUMINOUS	LT.	LIGHT
BLDG	BUILDING	MATL.	MATERIAL
B.M.	BENCHMARK	MAX.	MAXIMUM
B.O.	BOTTOM OF	MECH.	MECHANICAL
BRG.	BEARING	MFR.	MANUFACTURER
BTWN.	BETWEEN	MIN.	MINIMUM
CER.	CERAMIC	MISC.	MISCELLANEOUS
CJ	CONSTRUCTION JOINT	M.O.	MASONRY OPENING
CLG.	CEILING	MTL.	METAL
CLR.	CLEAR	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NO.	NUMBER
COL.	COLUMN	N.T.S.	NOT TO SCALE
CONC.	CONCRETE	O.C.	ON CENTER
CONT.	CONTINUOUS	O.D.	OUTSIDE DIAMETER
CONST.	CONSTRUCTION	O.H.	OVERHEAD
COORD.	COORDINATE	OPP.	OPPOSITE
CTJ	CONSTRUCTION JOINT	PART.	PARTITION
DBL	DOUBLE	PERP.	PERPENDICULAR
DPW	DIRECTOR OF PUBLIC WORKS	PL	PLATE
DIA.	DIAMETER	PNTD.	PAINTED
DPG	DUGWAY PROVING GROUND	PSI	POUNDS PER SQUARE INCH
DTL	DETAIL	R.D.	ROOF DRAIN
DWGS.	DRAWINGS	RAD.	RADIUS
EA.	EACH	REINF.	REINFORCED
EJ	EXPANSION JOINT	REQ'D	REQUIRED
ELEV.	ELEVATION	RET.	RETURN
EQ.	EQUAL	REV.	REVERSED
E.S.	EACH SIDE	RM.	ROOM
EXIST.	EXISTING	R.O.	ROUGH OPENING
EXPAN.	EXPANSION	SCHED.	SCHEDULE
EXT.	EXTERIOR	SHR.	SHOWER
E.W.C.	ELECTRIC WATER COOLER	SHT.	SHEET
F.D.	FLOOR DRAIN	SIM.	SIMILAR
FDN.	FOUNDATION	SPEC.	SPECIFICATION
F.E.	FIRE EXTINGUISHER	STD.	STANDARD
F.E.C.	FIRE EXTINGUISHER CABINET	STR.	STRUCTURAL
F.F.	FINISH FLOOR	SUSP.	SUSPENDED
FIN.	FINISH	THRU	THROUGH
FLR.	FLOOR	T.O.	TOP OF
F.L.	FLOW LINE	T.O.A.	TOP OF ASPHALT
FTG.	FOOTING	T.O.C.	TOP OF CURB
GA.	GAGE	T.O.F.	TOP OF FOOTING
GALV.	GALVANIZED	T.O.S.	TOP OF SLAB OR SIDEWALK
GF-CI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	T.O.W.	TOP OF WALL
GF-GI	GOVERNMENT FURNISHED	TYP.	TYPICAL
G.I.	GOVERNMENT INSTALLED	VERT.	VERTICAL
GND.	GALVANIZED STEEL	VEST.	VESTIBULE
	GROUND	WTH.	WITH
GOVT.	GOVERNMENT	WO	WOOD

LIST OF DRAWINGS

GENERAL	AG-1000	COVER SHEET
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	C-200	GRADING AND DRAINAGE PLAN
	C-300	EROSION CONTROL PLAN
	C-301	EROSION CONTROL DETAILS
	C-400	TYPICAL SECTIONS AND DETAILS
ARCHITECTURAL DRAWINGS NEW SHOP	A-FP100	ARCHITECTURAL FLOOR PLAN
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STRUCTURAL	S1	STRUCTURAL GENERAL NOTES
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	S2	FOUNDATION AND SHEAR WALL PLAN
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MECHANICAL/PLUMBING	M-SH000	SHOP MECHANICAL SCHEDULES
	M-HP100	SHOP MECHANICAL PLANS AND SECTIONS
	M-DT500	SHOP MECHANICAL DETAILS
	M-DT501	SHOP MECHANICAL DETAILS
	M-ME600	SHOP MECHANICAL CONTROLS
	P-SH000	SHOP PLUMBING SCHEDULES
	P-PP100	SHOP PLUMBING PLANS/DIAG.
ELECTRICAL	EL-101	LIGHTING PLAN FIXTURE SCHEDULE
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ARCHITECTURAL DRAWINGS NEW HOUSE/OFFICE REMODEL	A-DP100	DEMOLITION FLOOR PLAN
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	A-RP102	NEW ROOF PLAN
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	A-MS300	RAMP AND STAIR SECTIONS AND WALL TYPES
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STRUCTURAL	S1	STRUCTURAL GENERAL NOTES
	S2	NEW FOUNDATION PLAN
	S3	NEW FLOOR FRAMING PLAN
	SD-1	FRAMING DETAILS
MECHANICAL/PLUMBING	M-SH000	OFFICE MECHANICAL SCHEDULES
	M-HP100	OFFICE MECHANICAL PLANS AND SECTIONS
	M-DT500	OFFICE MECHANICAL DETAILS
	P-SH000	OFFICE PLUMBING SCHEDULES
	P-PP100	OFFICE PLUMBING PLANS/DIAG.
ELECTRICAL	EL-101	LIGHTING PLAN FIXTURE SCHEDULE
	EP-101	EQUIPMENT PLAN
	E-601	RISER DIAGRAMS SCHEDULES

DESIGN TEAM

ARCHITECT

P+A ARCHITECTS
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PHONE: 801.484.8161
FAX: 801.484.3338

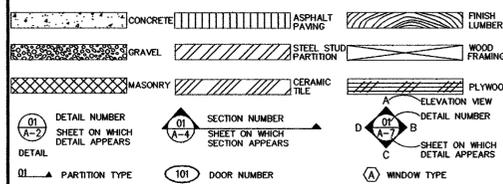
STRUCTURAL

VECTOR ENGINEERING
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9138 SOUTH STATE STREET, SUITE 101
SANDY, UTAH 84070
PHONE: 801.990.1775
FAX: 801.990.1776

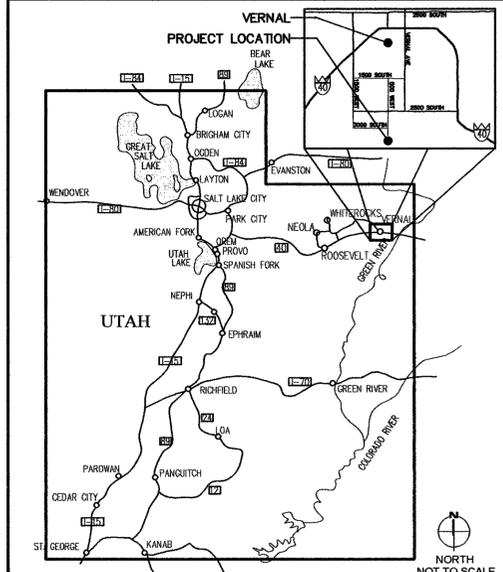
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CUNNING AND ASSOCIATES MECH.
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PHONE: 801.776.4005

GRAPHIC KEY



VICINITY MAP



DFCM CODE CRITERIA (SHOP)

APPLICABLE CODES			
Year	Year		
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	2006
International Fire Code	2006	ADA Accessibility	2006
International Energy Conservation Code	2006	Guidelines	2006

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

B. Seismic Design Category: D2 Design Wind Speed: 90 mph

C. Type of Construction (circle one):
I A I B I C I D I E I F I G I H I J I K I L I M I N I O I P I Q I R I S I T I U I V I W I X I Y I Z

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

E. Mixed Occupancies: NO Nonseparated Uses: ALLOWABLE AREA = 9000 sq ft

F. Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: N/A

G. Number of Stories: 1 Building Height: 24'-0"

H. Actual Area Of Structure (square feet): 1920 square feet

I. Actual Area Of New Addition: N/A

J. Total Area of Structure: 1920 square feet
Mezzanine Not to exceed 1/3 of area of space which they are located, IBC Section 505

K. Mezzanine Area Limitations: Mezzanine Area = 538 sqft Mezzanine Area = 1172sqft

L. Area Modifications:
a) $A_n = A_1 + \left[\frac{A_2 I_2}{100} + \frac{A_3 I_3}{100} \right]$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:
Actual Area ≤ 1 Allowable Area

c) Total Allowable Area for:
1) One Story: -
2) Two Story: $A_n(2)$ -
3) Three Story: $A_n(3)$ -

d) Unlimited Area Building: Yes No X Code Section: N/A

M. 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	N/A	-
Partitions - Permanent	0	-	Fire Walls	0	-
Fire Barriers	0	-	Fire Partitions	0	-
			Smoke Partitions	0	-

N. Design Occupant Load: 9.36 total occupants

Exit Width Required: 32" Exit Width Provided: 32"

O. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1

b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1

c) Bath Tubs or Showers: 1 Shower

d) Drinking Fountains: 2 Provided Service Sinks: 1 Provided

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts through X-ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:

a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means of Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

3) Deferred Submittals As Listed Below To Be Submitted To The Building Official
a) Manufactured Roof Trusses To Be Submitted To Architect & Building Official By May 30th, 2009

DFCM CODE CRITERIA (OFFICE)

APPLICABLE CODES			
Year	Year		
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	2006
International Fire Code	2006	ADA Accessibility	2006
International Energy Conservation Code	2006	Guidelines	2006

A. Occupancy and Group: B
Change in Use: Yes No NO Mixed Occupancy: Yes YES No
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: D2 Design Wind Speed: 90 mph

C. Type of Construction (circle one):
I A I B I C I D I E I F I G I H I J I K I L I M I N I O I P I Q I R I S I T I U I V I W I X I Y I Z

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

E. Mixed Occupancies: NO Nonseparated Uses: NO

F. Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: N/A

G. Number of Stories: 1 Building Height: 14'-0"

H. Actual Area Of Remodel Space (square feet): 1409 square feet

I. Actual Area Of New Addition: N/A

J. Total Area Of Remodel and Addition: 1409 square feet

K. Area Modifications:
a) $A_n = A_1 + \left[\frac{A_2 I_2}{100} + \frac{A_3 I_3}{100} \right]$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:
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1) One Story: -
2) Two Story: $A_n(2)$ -
3) Three Story: $A_n(3)$ -

d) Unlimited Area Building: Yes X No Code Section: N/A

L. 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	N/A	-
Partitions - Permanent	0	-	Fire Walls	0	-
Fire Barriers	0	-	Fire Partitions	0	-
			Smoke Partitions	0	-

N. Design Occupant Load: 8 Occupants

Exit Width Required: 32" Exit Width Provided: 32"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1

b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1

c) Bath Tubs or Showers: 1 EA Provided

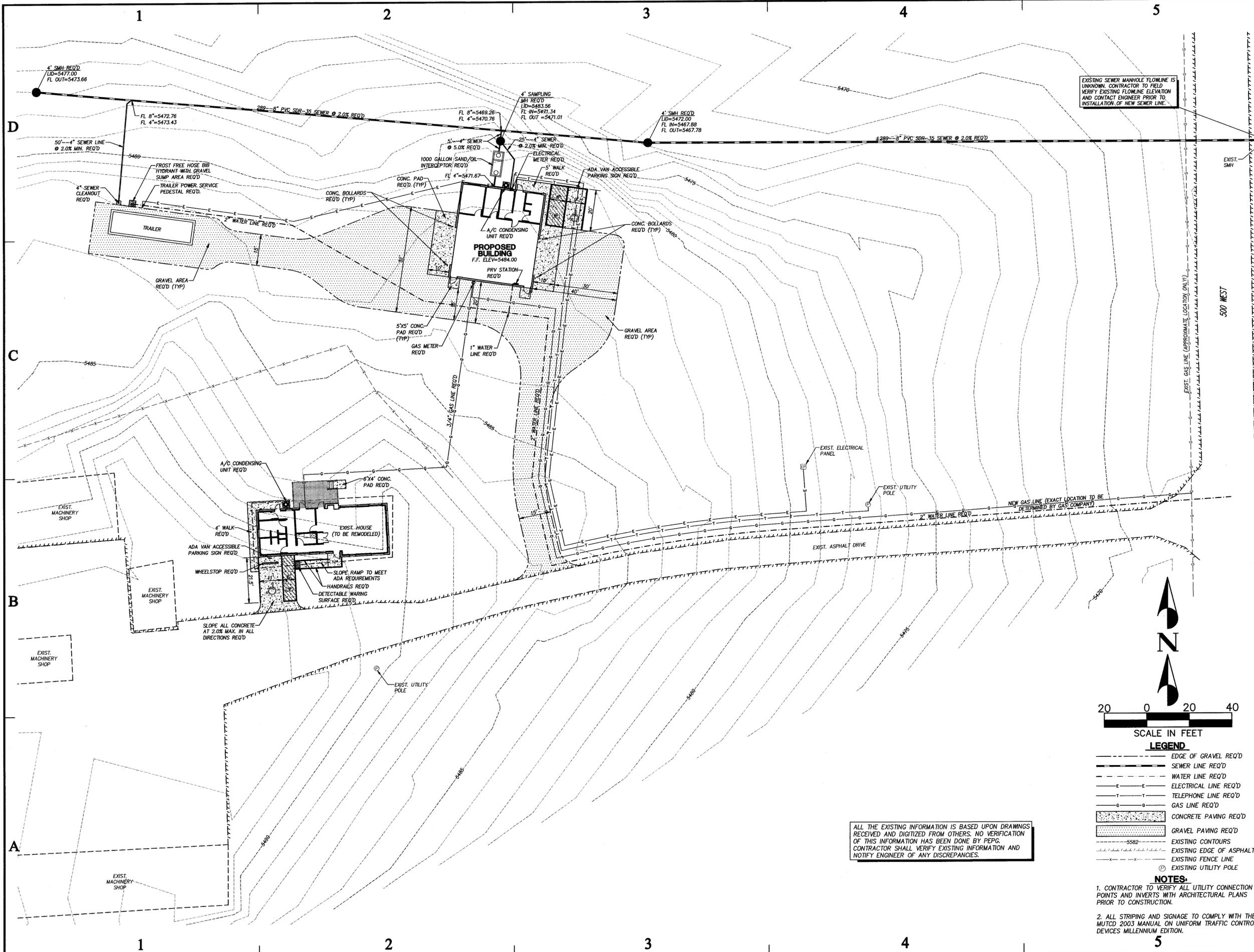
d) Drinking Fountains: 2 Service Sinks: 1 Provided

FOOTNOTES:

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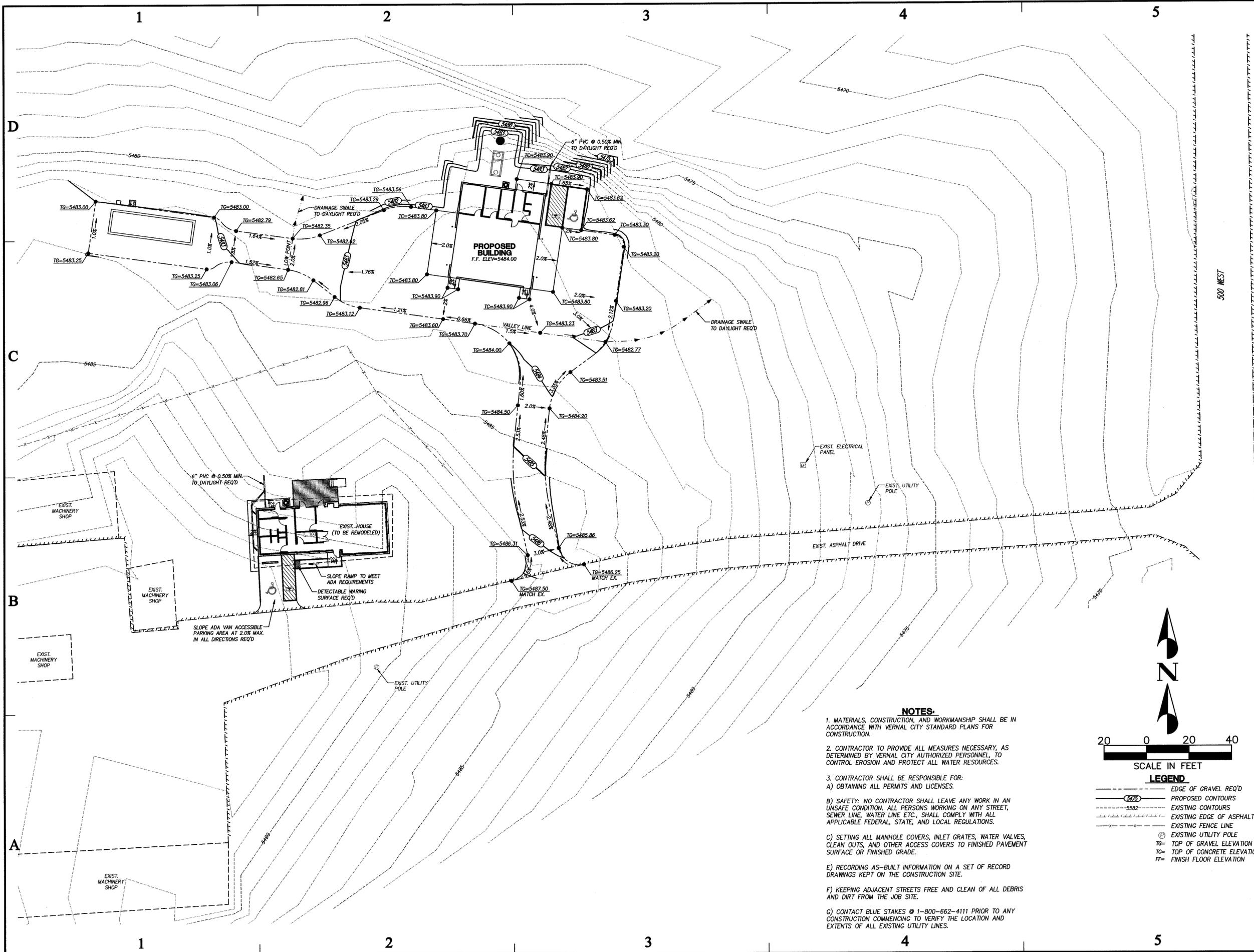
PROFESSIONAL ENGINEER
 No. 272207
 DARRIN R. SMITH
 7-13-2009
 STATE OF UTAH

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SITE &
 UTILITY PLAN
 SHEET NUMBER
C100
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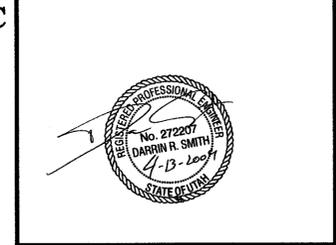
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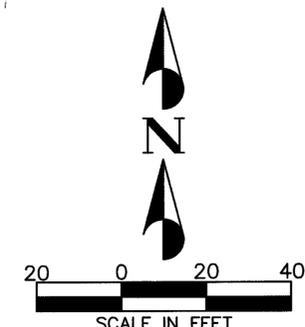
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SHEET TITLE
 GRADING & DRAINAGE PLAN

SHEET NUMBER
 C200
 SHEET OF

- NOTES:**
- MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH VERNAL CITY STANDARD PLANS FOR CONSTRUCTION.
 - CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY, AS DETERMINED BY VERNAL CITY AUTHORIZED PERSONNEL, TO CONTROL EROSION AND PROTECT ALL WATER RESOURCES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - OBTAINING ALL PERMITS AND LICENSES.
 - SAFETY: NO CONTRACTOR SHALL LEAVE ANY WORK IN AN UNSAFE CONDITION. ALL PERSONS WORKING ON ANY STREET, SEWER LINE, WATER LINE ETC., SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
 - SETTING ALL MANHOLE COVERS, INLET GRATES, WATER VALVES, CLEAN OUTS, AND OTHER ACCESS COVERS TO FINISHED PAVEMENT SURFACE OR FINISHED GRADE.
 - RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE.
 - KEEPING ADJACENT STREETS FREE AND CLEAN OF ALL DEBRIS AND DIRT FROM THE JOB SITE.
 - CONTACT BLUE STAKES @ 1-800-662-4111 PRIOR TO ANY CONSTRUCTION COMMENCING TO VERIFY THE LOCATION AND EXTENTS OF ALL EXISTING UTILITY LINES.



LEGEND

	EDGE OF GRAVEL REQ'D
	PROPOSED CONTOURS
	EXISTING CONTOURS
	EXISTING EDGE OF ASPHALT
	EXISTING FENCE LINE
	EXISTING UTILITY POLE
	TOP OF GRAVEL ELEVATION
	TOP OF CONCRETE ELEVATION
	FF= FINISH FLOOR ELEVATION



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SHEET TITLE

EROSION
CONTROL DETAILS

SHEET NUMBER

C301

SHEET OF

1

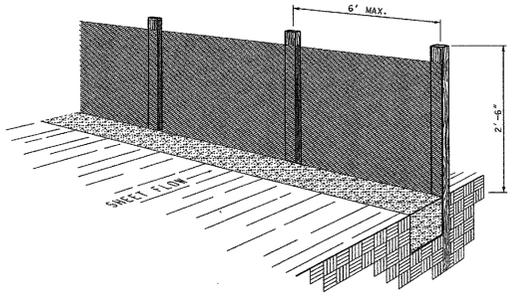
SILT FENCE

3

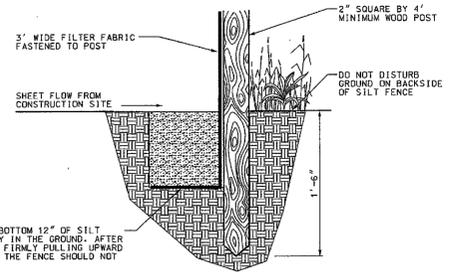
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5

D



PERSPECTIVE VIEW

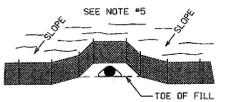


SECTION

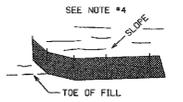
ENTRENCH THE BOTTOM 12" OF SILT FENCE SECURELY IN THE GROUND. AFTER INSTALLATION, FIRMLY PULLING UPWARD ON THE TOP OF THE FENCE SHOULD NOT DISLODGE IT.

NOTES FOR SILT FENCE:

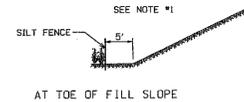
- WHERE PERMITTED, POSITION THE SILT FENCE 5' BEYOND THE TOE OF SLOPE.
- TO AVOID CREATING LOW POINTS ALONG THE SILT FENCE, ALIGN THE FENCE ALONG THE CONTOUR AS MUCH AS POSSIBLE. WHERE EXCESSIVE RUNOFF WILL ACCUMULATE AT A LOW POINT, PROVIDE AN OPENING IN THE FENCE AND INSTALL A SEDIMENT TRAP.
- WHEN EXCAVATING THE TRENCH, USE MACHINERY THAT WILL MINIMIZE DISTURBANCE.
- TO PREVENT RUNOFF FROM FLOWING AROUND THE ENDS OF THE SILT FENCE, RUN THE ENDS OF THE FENCE UP SLOPE.
- DO NOT PLACE SILT FENCE ACROSS POTENTIAL CONCENTRATED FLOWS (E.G., PIPE OUTLETS, DRAINAGE CHANNELS, CUT DITCHES).
- AVOID USING SPLICES ALONG THE FENCE AS MUCH AS POSSIBLE. IF A SPLICE IS NECESSARY, BEFORE POUNDING IN THE END POSTS, OVERLAP THE END POSTS AND TWIST 180 DEGREES.
- MAINTAIN A PROPERLY FUNCTIONING SILT FENCE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL DISTURBED AREAS HAVE BEEN VEGETATED.
- WHEN A STORM EVENT DEPOSITS SEDIMENT BEHIND THE FENCE, REMOVE THE SEDIMENT AND PLACE IT IN A STABLE AREA APPROVED BY THE ENGINEER.
- IN AREAS THAT HAVE BEEN SEEDED AND MULCHED, REMOVE SILT FENCE UNLESS THEY ARE PROTECTING A WETLAND OR WATER BODY.



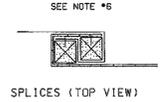
AROUND A PIPE OUTLET



AT END OF SILT FENCE



AT TOE OF FILL SLOPE

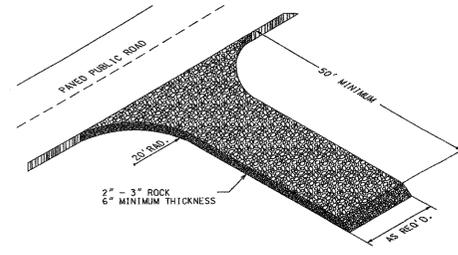


SPLICES (TOP VIEW)

SILT FENCE INSTALLATIONS

DETAIL-A
TEMPORARY EROSION CONTROL (SILT FENCE)
NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE

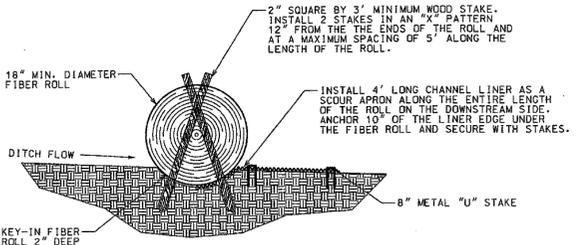


NOTES FOR STABILIZED CONSTRUCTION ENTRANCE:

- PLACE STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- MAINTAIN A PROPERLY FUNCTIONING CONSTRUCTION ENTRANCE THROUGHOUT CONSTRUCTION OR UNTIL DISTURBED AREAS HAVE BEEN PAVED.
- DO NOT ALLOW VEHICLES LEAVING THE CONSTRUCTION SITE TO TRACK MUD ONTO PAVED ROADS.

DETAIL-B
TEMPORARY EROSION CONTROL
(STABILIZED CONSTRUCTION ENTRANCE)
NOT TO SCALE

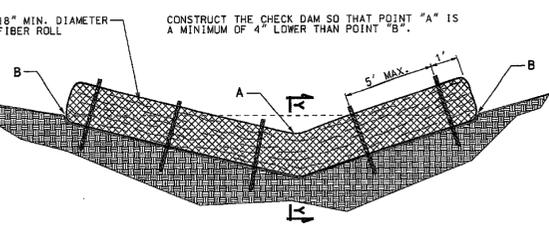
B



SECTION Y - Y

DITCH SIDE SLOPE	LENGTH OF FIBER ROLL REQUIRED FOR HALF OF DITCH	CUBIC YARDS OF STONE REQUIRED FOR HALF OF DITCH
2:1	4.5'	0.25
3:1	6'	0.35
4:1	8'	0.5
6:1	11.5'	0.7
8:1	15'	1.0
10:1	18.5'	1.2
12:1	22.5'	1.4

EXAMPLE: A CUT DITCH WITH A 6:1 FORE SLOPE AND A 2:1 BACK SLOPE WOULD REQUIRE A 16" MIN. FIBER ROLL OR 0.95 CUBIC YARDS MIN. OF STONE.



FIBER ROLL CHECK DAM

DETAIL-C
TEMPORARY EROSION CONTROL (CHECK DAMS)
NOT TO SCALE

A

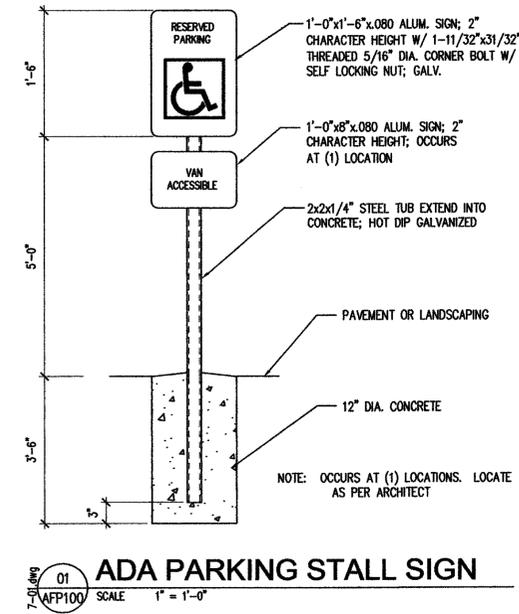
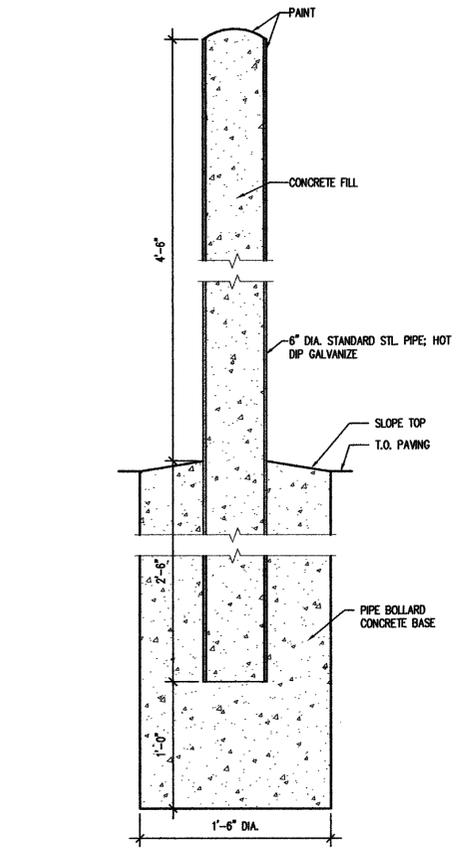
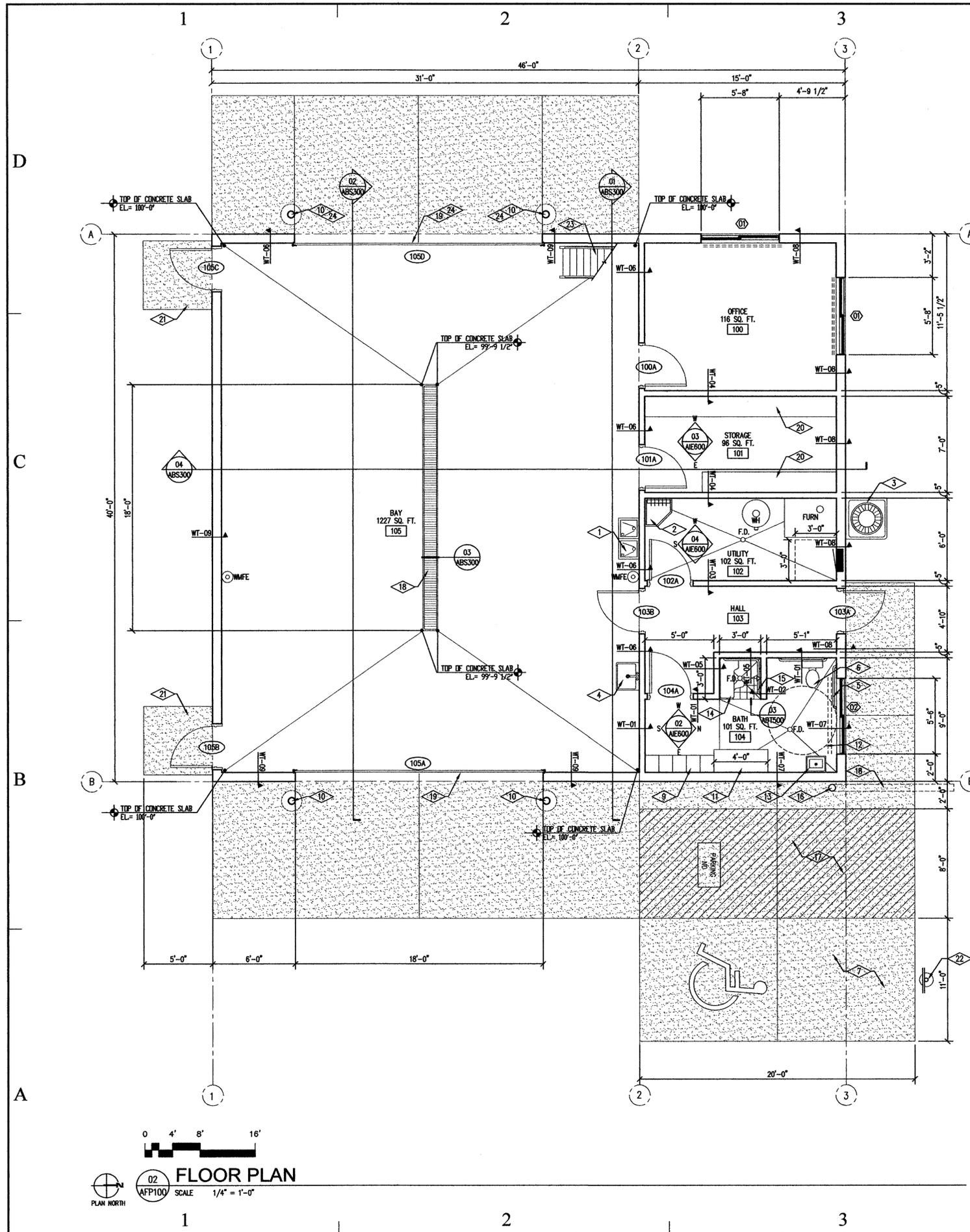
1

2

3

4

5



REFERENCE NOTES

- 1 HIGH/LOW DRINKING FOUNTAINS, SEE PLUMBING DRAWINGS
- 2 MOP SINK WITH SHELF, SEE SPECIFICATION
- 3 A/C CONDENSING UNIT SET ON 4" THICK CAST-IN-PLACE CONCRETE BASE OVER 4" COMPACTED GRAVEL BASE
- 4 SHOP WASH BASIN, SEE PLUMBING DRAWINGS
- 5 ADA GRAB BARS, SEE INTERIOR ELEVATIONS
- 6 ADA WATER CLOSET, SEE PLUMBING DRAWINGS
- 7 ADA VAN PARKING STALL
- 8 6" BURIED PVC PIPE TO RUN UNDER CONCRETE SLAB, GENERAL CONTRACTOR SHALL EXTEND BURIED PIPE 30"-0" FROM EDGE OF CONCRETE SIDE WALK
- 9 PREFINISHED METAL LOCKERS, SEE SPECIFICATION AND INTERIOR ELEVATIONS
- 10 6" DIA CONCRETE FILLED STEEL PAINTED PIPE BOLLARD, SEE DETAIL 03/AFP100
- 11 BUILT IN PLACE ADA BENCH, SEE SECTION 05/AIES00
- 12 5'-0" DIA ADA TURNING CIRCLE
- 13 LAVATORY, SEE PLUMBING DRAWINGS
- 14 ADA SHOWER BENCH, SEE SPECIFICATION AND SECTION
- 15 ADA SHOWER GRAB BAR, SEE SPECIFICATION
- 16 PROVIDE 6" DIA PVC ELBOW AT TOP OF CONCRETE SLAB EXTENDED 6" PVC PIPING TO 8" ABOVE TOP OF CONCRETE SLAB
- 17 PAINTED WITH TRAFFIC WHITE PAINT, "NO PARKING" AND STRIPING
- 18 TRENCH DRAIN, SEE DETAIL
- 19 INSULATED SECTIONAL OVERHEAD DOOR, SEE SPECIFICATION
- 20 PLASTIC LAMINATE SHELVING, SEE INTERIOR ELEVATIONS
- 21 5'-0"x5'-0" 4" THICK CONCRETE STOOP OVER 4" GRAVEL BASE. CONCRETE STOOP TO SLOPE AWAY FROM DOOR
- 22 ADA VAN PARKING SIGN, SEE DETAIL 01/AFP100
- 23 STEEL SHIPS LADDER, SEE SECTIONS AND DETAILS
- 24 PART OF ADD ALT NUMBER 1

GENERAL NOTES

- 1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.
- 2. MOST DIMENSION ARE FROM FACE OF SHEATHING OR GYPSUM BOARD.

FLOOR PLAN LEGEND

- RM. NAME
- 100 ROOM TAG
- H.B. HOSE BIB
- 102 WINDOW TAG
- 100A DOOR TAG
- F.D. FLOOR DRAIN
- WT-01 WALL TYPE, SEE WALL TYPES SHEET ASC300
- WH WATER HEATER, SEE PLUMBING DRAWINGS
- FURN FURNACE, SEE MECHANICAL DRAWINGS
- DASH LINES AT WINDOW LOCATIONS INDICATE HEW WINDOW COVERINGS AS PER SPECIFICATION
- WMFE WALL MOUNTED FIRE EXTINGUISHER, SEE SPECIFICATION
- HATCH PATTERN INDICATE EXTERIOR AREA OF CONCRETE SLAB. CONCRETE STOOPS AND SIDEWALKS TO BE 5" THICK OVER 4" COMPACTED GRAVEL BASE AND CONCRETE DRIVE APPROACH AND PARKING TO BE 6" THICK OVER 4" COMPACTED GRAVEL BASE

ADD ALT. NO. 1

- 1. ADD ALT NUMBER 1 IS TO PROVIDE SECTIONAL OVERHEAD DOOR, PIPE BOLLARDS AND 6" CONCRETE APRON AT LOCATION SHOWN. BASE BID SHALL INCLUDE WALL BEING FINISHED AT DOOR 105D. GENERAL CONTRACTOR SHALL PROVIDE THE FRAMING FOR SECTIONAL OVERHEAD DOOR THAT WILL BE INSTALLED FOR FUTURE OVERHEAD DOOR INSTALLATION AS PART OF BASE BID.



PROJECT TITLE:

DIVISION OF WILDLIFE
RESOURCES

NEW SHOP BUILDING

VERNAL, UTAH

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CAD PROJECT NO:

CAD DWG FILE:

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SHEET TITLE

FLOOR PLAN

SHEET NUMBER

A-FP100



PROJECT TITLE:

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SHEET TITLE

**REFLECTED
CEILING
PLAN**

SHEET NUMBER

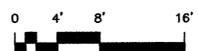
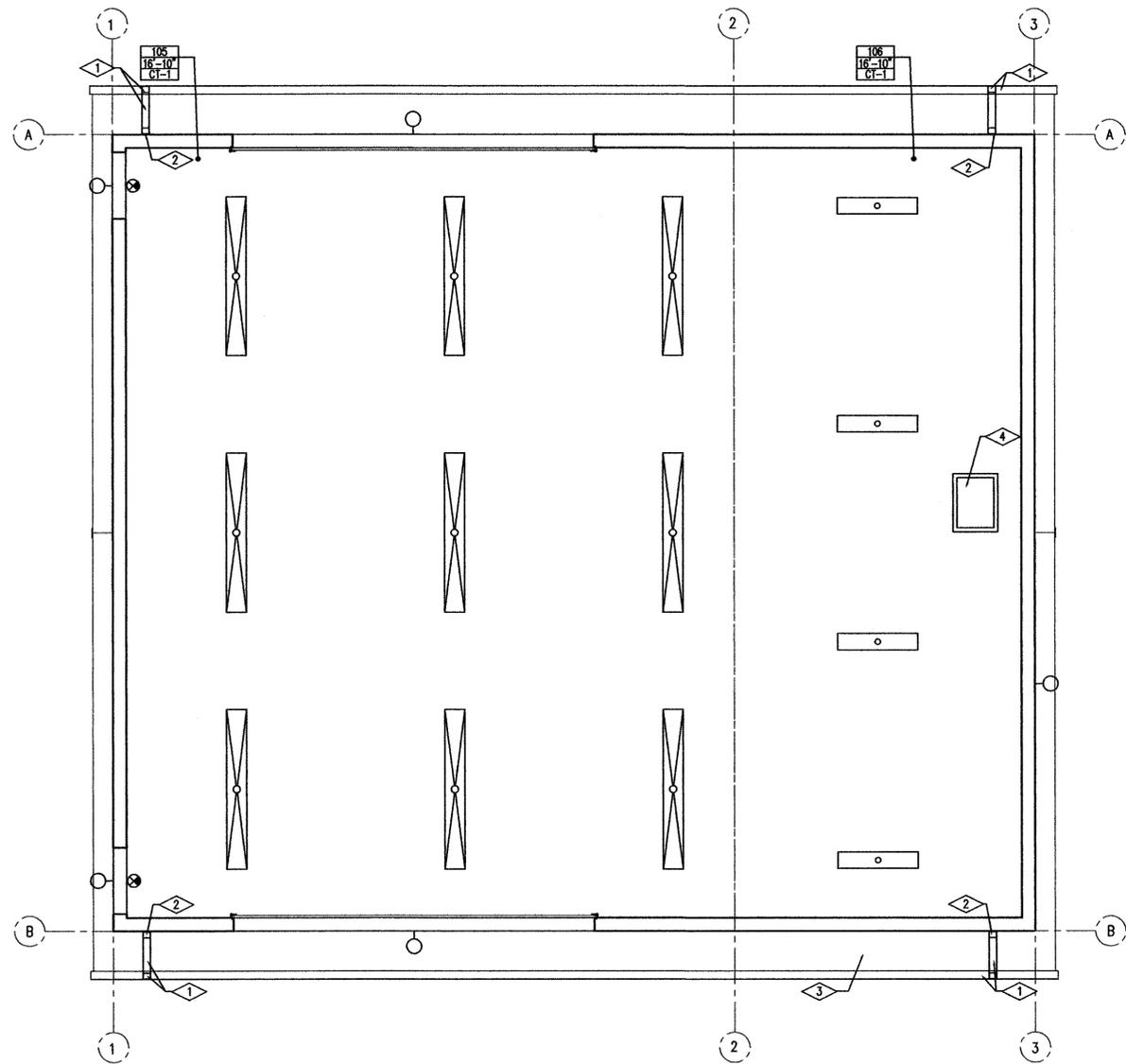
A-FP101

REFERENCE NOTES

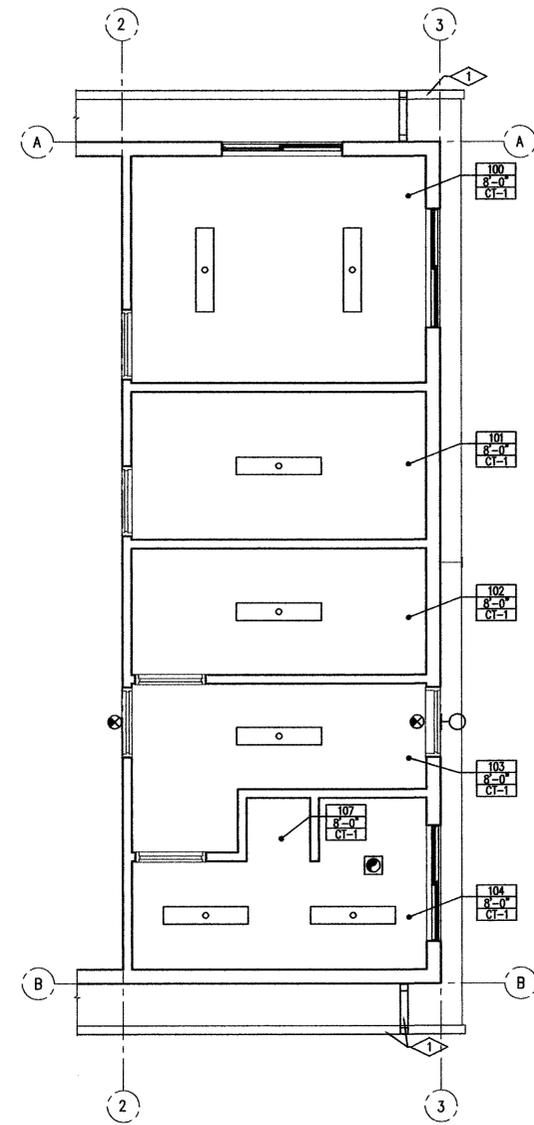
- 1 PREFINISHED, SEAMLESS ALUMINUM RAIN GUTTER WITH DOWN SPOUT, SEE ELEVATIONS
- 2 DOWN SPOUT LOCATION
- 3 PRE-FINISHED VENTED ALUMINUM SOFFIT
- 4 22"x30" CLEAR OPENING ATTIC ACCESS DOOR

LEGEND

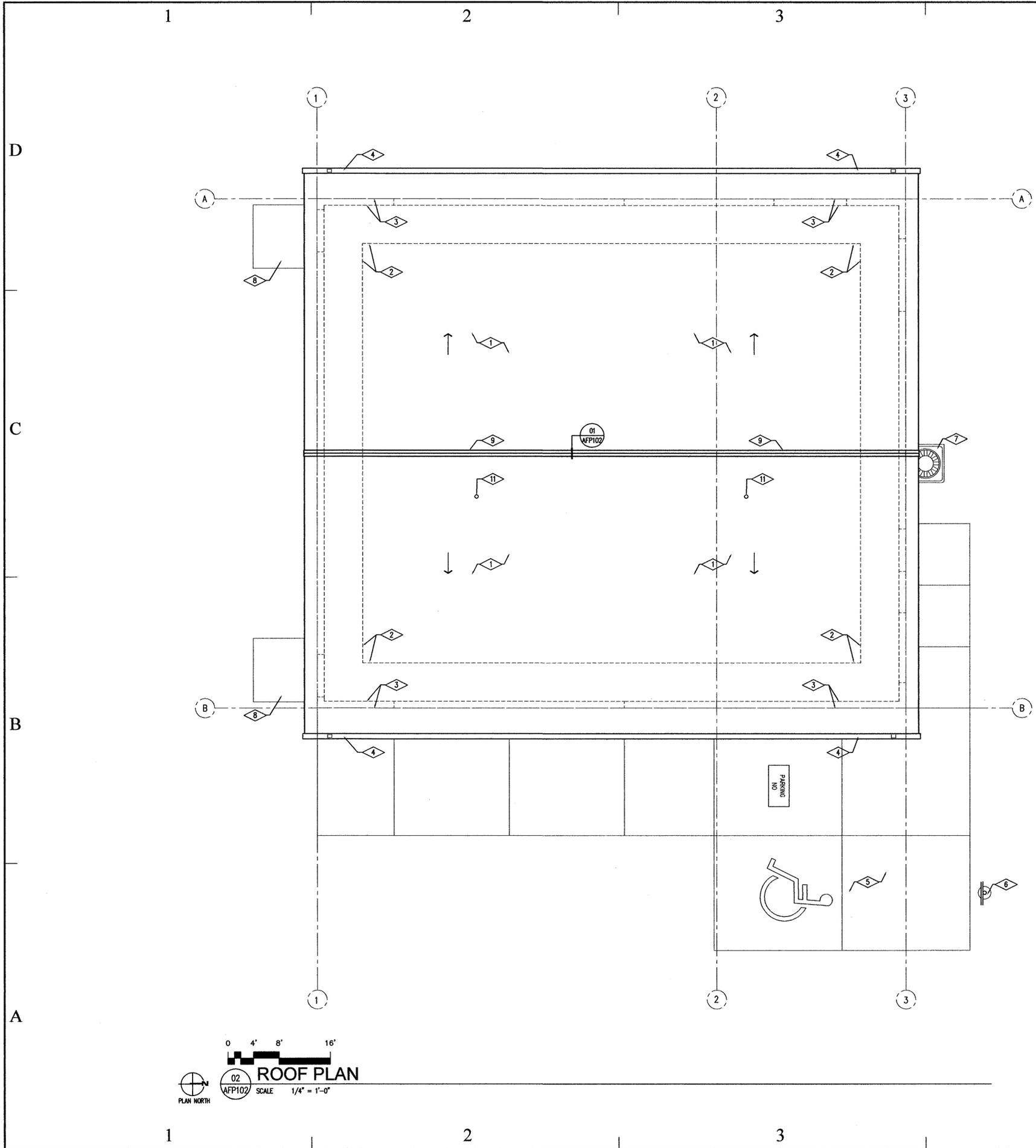
- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
- 101 ROOM NUMBER
- 9'-0" CEILING HEIGHT
- CI-1 CEILING TYPE
- NEW WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- NEW EXIT SIGN, SEE ELECTRICAL DRAWINGS.
- CEILING FAN, SEE MECHANICAL DRAWINGS



02 REFLECTED CEILING SHOP AND MEZZANINE
AFP101 SCALE 1/4" = 1'-0"



01 REFLECTED CEILING OFFICE AND UTILITY ROOMS
AFP101 SCALE 1/4" = 1'-0"



REFERENCE NOTES

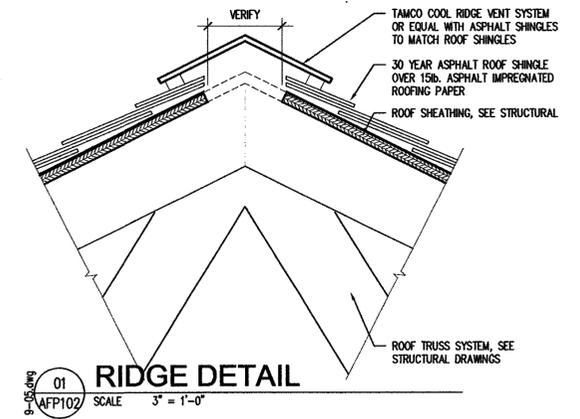
- 1 30 YEAR ASPHALT ROOF SHINGLES OVER 15 LB. ASPHALT ROOFING FELT, SEE SPECIFICATIONS
- 2 DASHED LINES INDICATE ICE AND WATER SHIELD. ICE AND WATER SHIELD TO EXTEND 2'-0" FROM INSIDE WALL LINE TOWARDS INSIDE BUILDING
- 3 DASHED LINES INDICATE WALL LINES BELOW
- 4 PRE-FINISHED SEAMLESS ALUMINUM RAIN GUTTERS WITH DOWN SPOUTS
- 5 ADA VAN CONCRETE PARKING STALL BELOW, SEE FLOOR PLAN
- 6 ADA VAN PARKING SIGN BELOW, SEE DETAIL
- 7 A/C CONDENSING UNIT BELOW ON CONCRETE BASE, SEE FLOOR PLAN
- 8 CONCRETE STOOP BELOW, SEE FLOOR PLAN
- 9 NEW ASPHALT SHINGLE RIDGE VENTS. NEW RIDGE VENT SHALL PROVIDE REQUIRED ATTIC VENTILATION AS PER I.B.C. 1203.2. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/60 OF THE AREA OF THE SPACE VENTILATED, WITH 50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY RIDGE VENT. GENERAL CONTRACTOR TO VERIFY
REQUIRED AREA 1920 SQUARE FEET
NET FREE AREA 1/60x1920=12.8 SQUARE INCHES
MINIMUM OF RIDGE VENT SPACE REQUIRED
- 10 ALL PIPE VENTS TO BE FLASHED WITH HYLAR FINISHED 26 GA. GALVANIZED STEEL WITH 18" BASE AND RAIN GUTTER SLEEVE.

GENERAL NOTES

- 1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.

LEGEND

← ARROW INDICATES DIRECTION OF EXISTING SLOPE



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architecture | planning | design

CONSULTANT: xyz engineering

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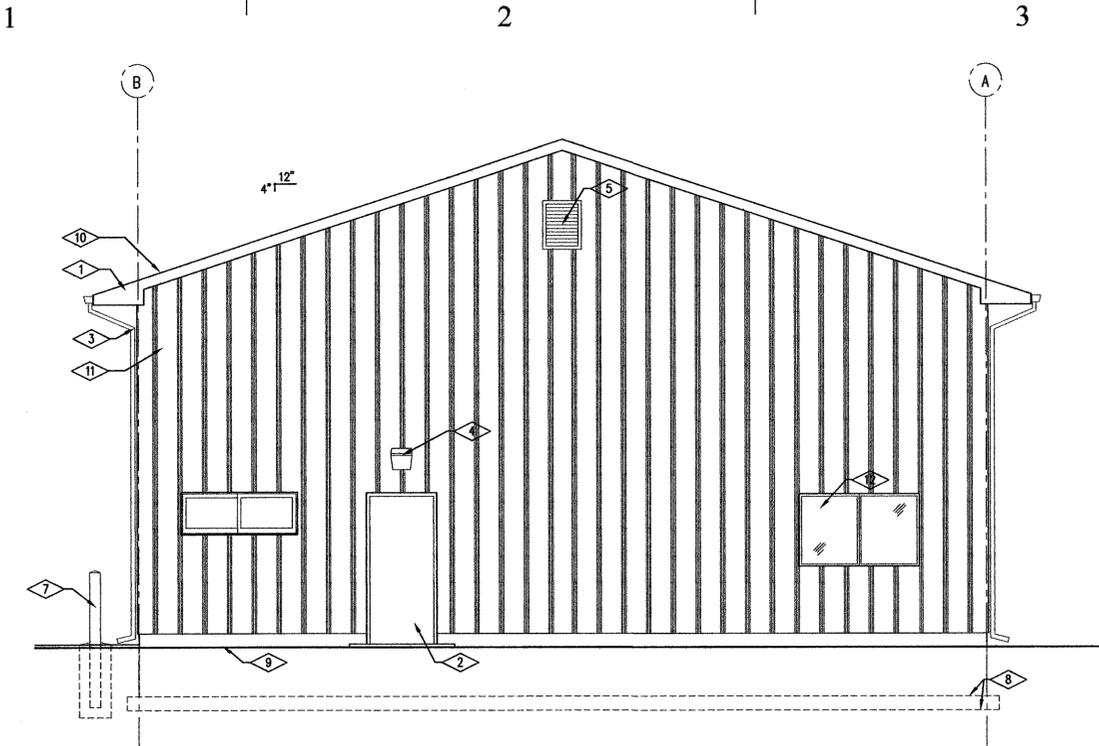
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SHEET TITLE

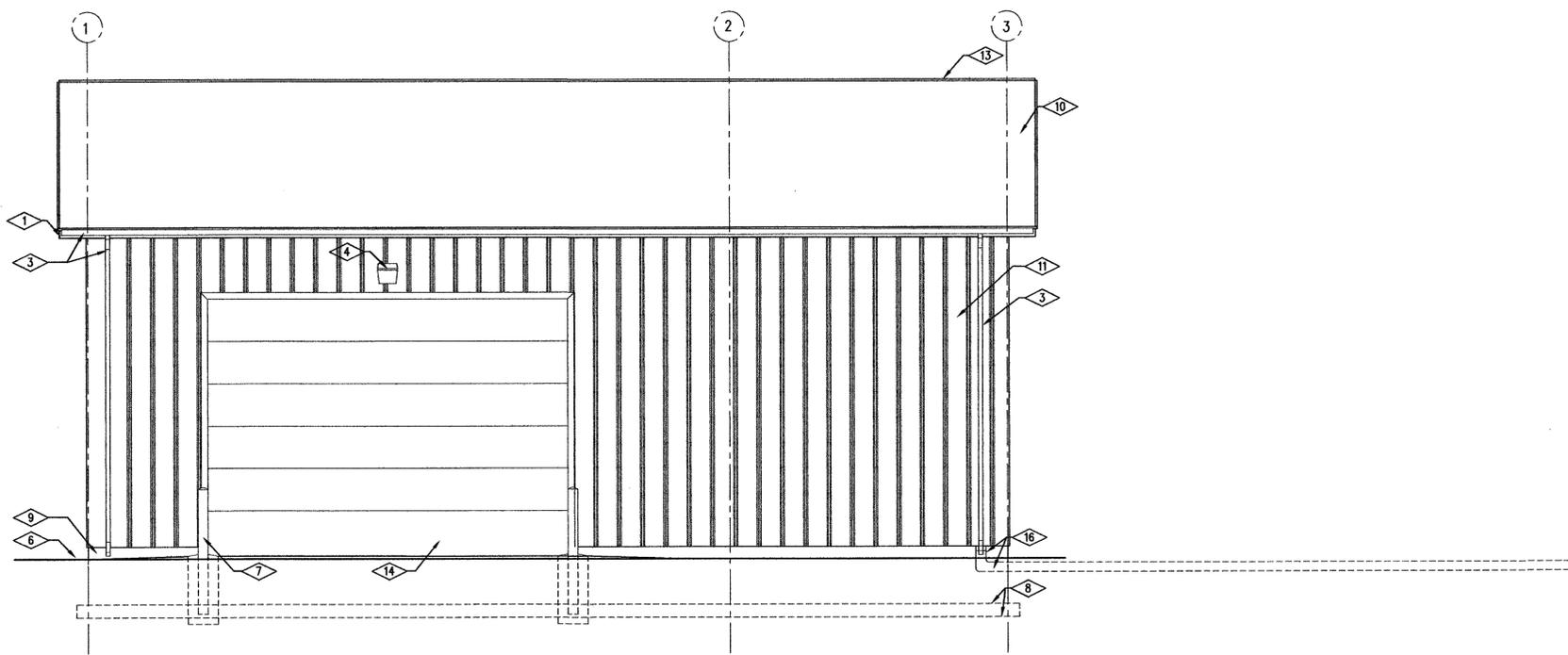
ROOF PLAN

SHEET NUMBER

A-FP102



0 4' 8' 16'
 02 NORTH ELEVATION
 AEL200 SCALE 1/4" = 1'-0"



0 4' 8' 16'
 01 EAST ELEVATION
 AEL200 SCALE 1/4" = 1'-0"

REFERENCE NOTES

- 1 PREFINISHED METAL FASCIA, SEE DETAILS
- 2 PRIMED AND PAINTED HOLLOW METAL DOOR & FRAME, SEE DOOR SCHEDULE
- 3 PRE-FINISHED, SEAMLESS ALUMINUM RAINGUTTERS W/ PRECAST CONCRETE SPLASH AT BASE
- 4 EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWING
- 5 2'-0" WIDE X 2'-6" HIGH LOUVERED PREFINISHED ATTIC VENT WITH BUG SCREEN
- 6 FINISHED GRADE, SEE SITE PLAN
- 7 PAINTED CONCRETE CONCRETE FILLED, STEEL PIPE BOLLARD, SEE DETAIL
- 8 DASHED LINES INDICATE FOOTING & FOUNDATION SYSTEM, SEE STRUCTURAL DRAWINGS
- 9 EXPOSED CONCRETE FOUNDATION WALL, SEE SECTIONS
- 10 30 YEAR ASPHALT SHINGLES OVER 15 LB ASPHALT IMPREGNATED ROOFING PAPER, SEE SPECIFICATION
- 11 PRE FINISHED METAL WALL PANEL SYSTEM WITH EXPOSED FASTENERS, METAL WALL PANEL SYSTEM, FLASHINGS, TRIM AND OTHER ACESORIES BY METAL WALL PANEL MANUFACTURE, METAL WALL PANELS PROFILES TO MATCH EXISTING METAL BUILDING PANELS PROFILES
- 12 VINYL WINDOW, SEE WINDOW TYPES.
- 13 VENTED ASPHALT SHINGLE RIDGE VENT CAP, SEE DETAIL
- 14 SECTIONAL MOTORIZED OVERHEAD GARAGE DOOR, SEE SPECIFICATION
- 15 30 YEAR ASPHALT SHINGLES OVER 15 LB. ROOFING FELT
- 16 6" PVC ROOF DRAIN PIPE

State of Utah

Department of Administrative Services

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architecture | planning | design

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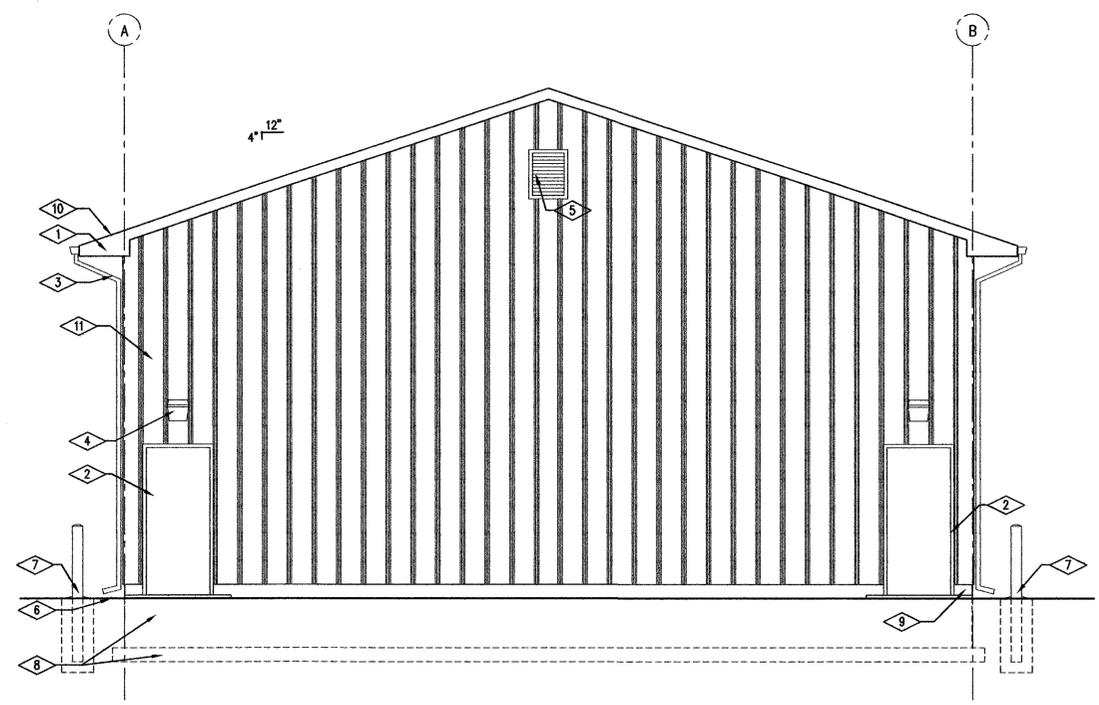
SHEET TITLE

BUILDING ELEVATIONS

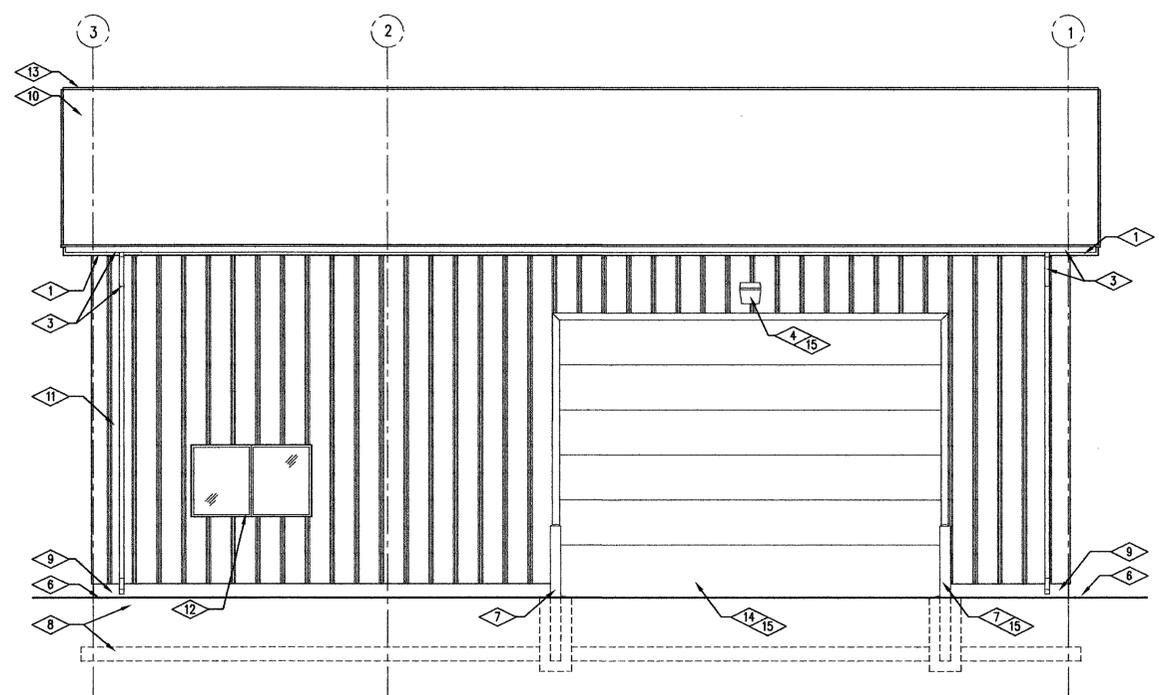
SHEET NUMBER

A-EL200

1 2 3 4



02 SOUTH ELEVATION
AEL201 SCALE 1/4" = 1'-0"



01 WEST ELEVATION
AEL201 SCALE 1/4" = 1'-0"

1 2 3 4 5

REFERENCE NOTES

- 1 PREFINISHED METAL PASCIA, SEE DETAILS
- 2 PRIMED AND PAINTED HOLLOW METAL DOOR & FRAME, SEE DOOR SCHEDULE
- 3 PRE-FINISHED, SEAMLESS ALUMINUM RAINGUTTERS W/ PRECAST CONCRETE SPLASH AT BASE
- 4 EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWING
- 5 2'-0" WIDE X 2'-6" HIGH LOUVERED ATTIC VENT, SEE SPECIFICATIONS
- 6 FINISHED GRADE, SEE SITE PLAN
- 7 PAINTED CONCRETE CONCRETE FILLED, STEEL PIPE BOLLARD, SEE DETAIL
- 8 DASHED LINES INDICATE FOOTING & FOUNDATION SYSTEM, SEE STRUCTURAL DRAWINGS
- 9 EXPOSED CONCRETE FOUNDATION WALL, SEE SECTIONS
- 10 30 YEAR ASPHALT SHINGLES OVER 15 LB ASPHALT IMPREGNATED ROOFING PAPER, SEE SPECIFICATION
- 11 PRE FINISHED METAL WALL PANEL SYSTEM WITH EXPOSED FASTENERS, METAL WALL PANEL SYSTEM, FLASHINGS, TRIM AND OTHER ACCESSORIES BY METAL WALL PANEL MANUFACTURE, METAL WALL PANELS PROFILES TO MATCH EXISTING METAL BUILDING PANELS PROFILES
- 12 VINYL WINDOW, SEE WINDOW TYPES.
- 13 VENTED ASPHALT SHINGLE RIDGE VENT CAP, SEE DETAIL
- 14 SECTIONAL MOTORIZED OVERHEAD GARAGE DOOR, SEE SPECIFICATION
- 15 PART OF ADD ALT NUMBER 1

ADD ALT. NO. 1

- 1. ADD ALT NUMBER 1 IS TO PROVIDE SECTIONAL OVERHEAD DOOR, PIPE BOLLARDS AND 6" CONCRETE APRON AT LOCATION SHOWN. BASE BID SHALL INCLUDE WALL BEING FINISHED AT DOOR 1050. GENERAL CONTRACTOR SHALL PROVIDE THE FRAMING FOR SECTIONAL OVERHEAD DOOR THAT WILL BE INSTALLED FOR FUTURE OVERHEAD DOOR INSTALLATION AS PART OF BASE BID.

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SHEET TITLE

BUILDING ELEVATIONS

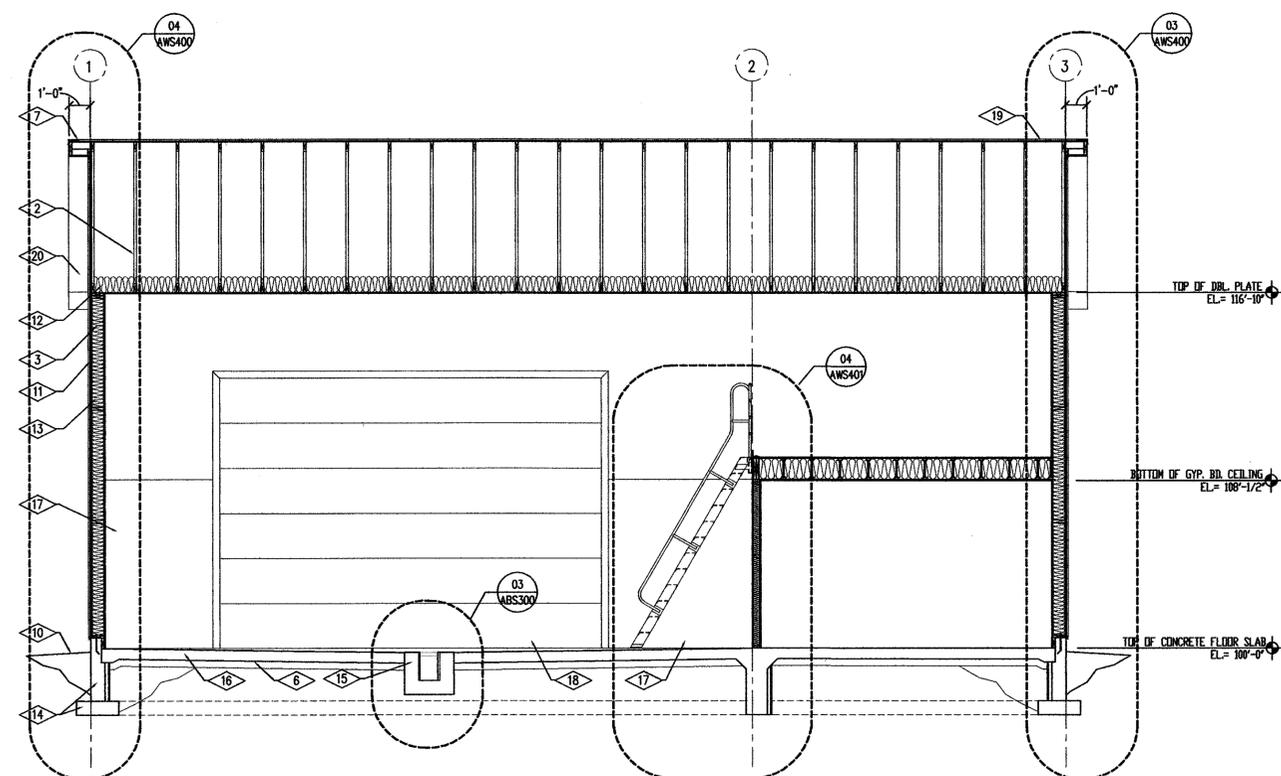
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A-EL201

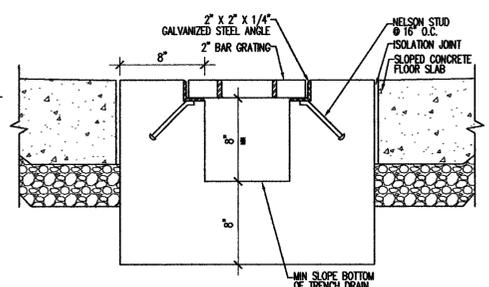


REFERENCE NOTES

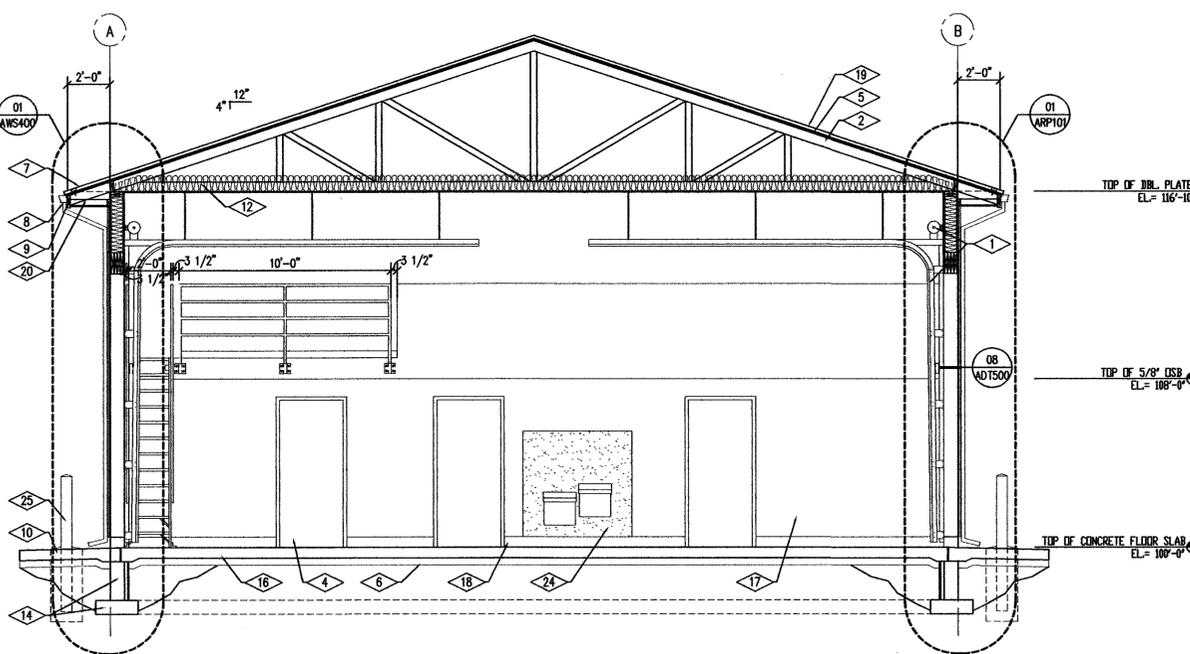
- 1 MOTORIZED SECTIONAL OVERHEAD DOOR AND TRACK SYSTEM, SEE SPECIFICATIONS
- 2 WOOD TRUSS SYSTEM, SEE STRUCTURAL DRAWINGS
- 3 2"x8" WOOD STUD FRAMING
- 4 HOLLOW METAL DOOR & FRAME BEYOND, SEE SCHEDULE AND SPECIFICATION
- 5 ROOF SHEATHING, SEE STRUCTURAL
- 6 4" COMPACTED GRAVEL BASE
- 7 PROVIDE ICE AND WATER SHIELD AT PERIMETER OF ROOF, SEE ROOF PLAN
- 8 BAKED ENAMEL SEAMLESS RAINGUTTERS WITH DOWN SPOUTS. EXTEND RAIN GUTTER 1'-8" FROM BASE OF STRUCTURE. PROVIDE A PRECAST CONCRETE SPLASH AT DOWN SPOUT LOCATIONS.
- 9 PREFINISHED METAL FASCIA & SOFFIT, SEE DETAIL & SPECIFICATION
- 10 FINISH GRADE, SEE SITE PLAN
- 11 PREFINISHED BAKED ENAMEL METAL WALL PANEL SYSTEM, WITH EXPOSED FASTENERS WITH NEOPRENE WASHERS, SEE SPECIFICATION
- 12 R-38 BATT INSULATION IN CEILING
- 13 R-25 WALL BATT INSULATION
- 14 CONCRETE FOOTING AND FOUNDATION, SEE STRUCTURAL DRAWINGS
- 15 FLOOR TRENCH DRAIN, SEE DETAIL
- 16 CONCRETE FLOOR SLAB, SEE STRUCTURAL. CONCRETE FLOOR SLAB IN SHOP AREA TO SLOPE TOWARDS TRENCH DRAIN
- 17 PROVIDE 5/8" O.S.B. TO 8'-0" A.F.F. AT BAY AREA WALLS, PRIMED AND PAINTED
- 18 BASE, AS SCHEDULED
- 19 30 YEAR ASPHALT SHINGLES OVER 15 LB. ASPHALT IMPREGNATED ROOFING FELT
- 20 PREFINISHED VENTED ALUMINUM SOFFIT
- 21 4"x4" x 1/4" STEEL ANGLE, SEE SECTION
- 22 PRIMED AND PAINTED GYPSUM BOARD WALLS. SEE FINISH SCHEDULE
- 23 SHIPS LADDER, SEE SECTION AND DETAILS
- 24 PROVIDE 5'-0" WIDE X 5'-0" HIGH FRP PANEL BEHIND NEW WATER FOUNDATION. PROVIDED ALL REQUIRED TRIM AT FRP PANEL
- 25 6" DIA. GALVANIZED STEEL CONCRETE FILLED PIPE BOLLARD, SEE DETAIL



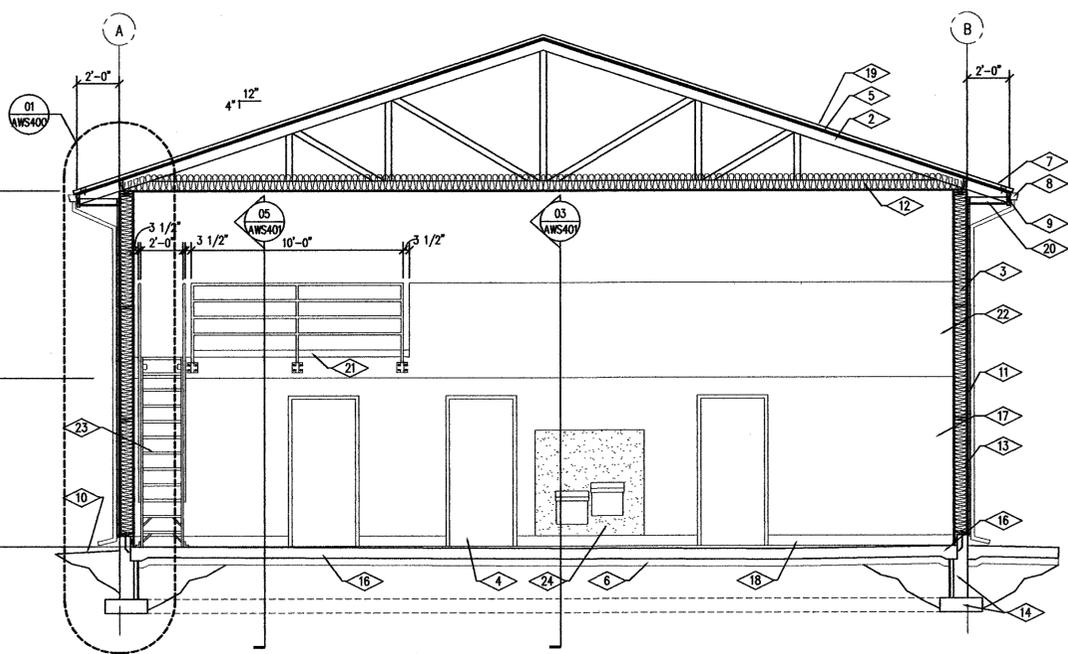
04 BUILDING SECTION
ABS300 SCALE 1/4" = 1'-0"



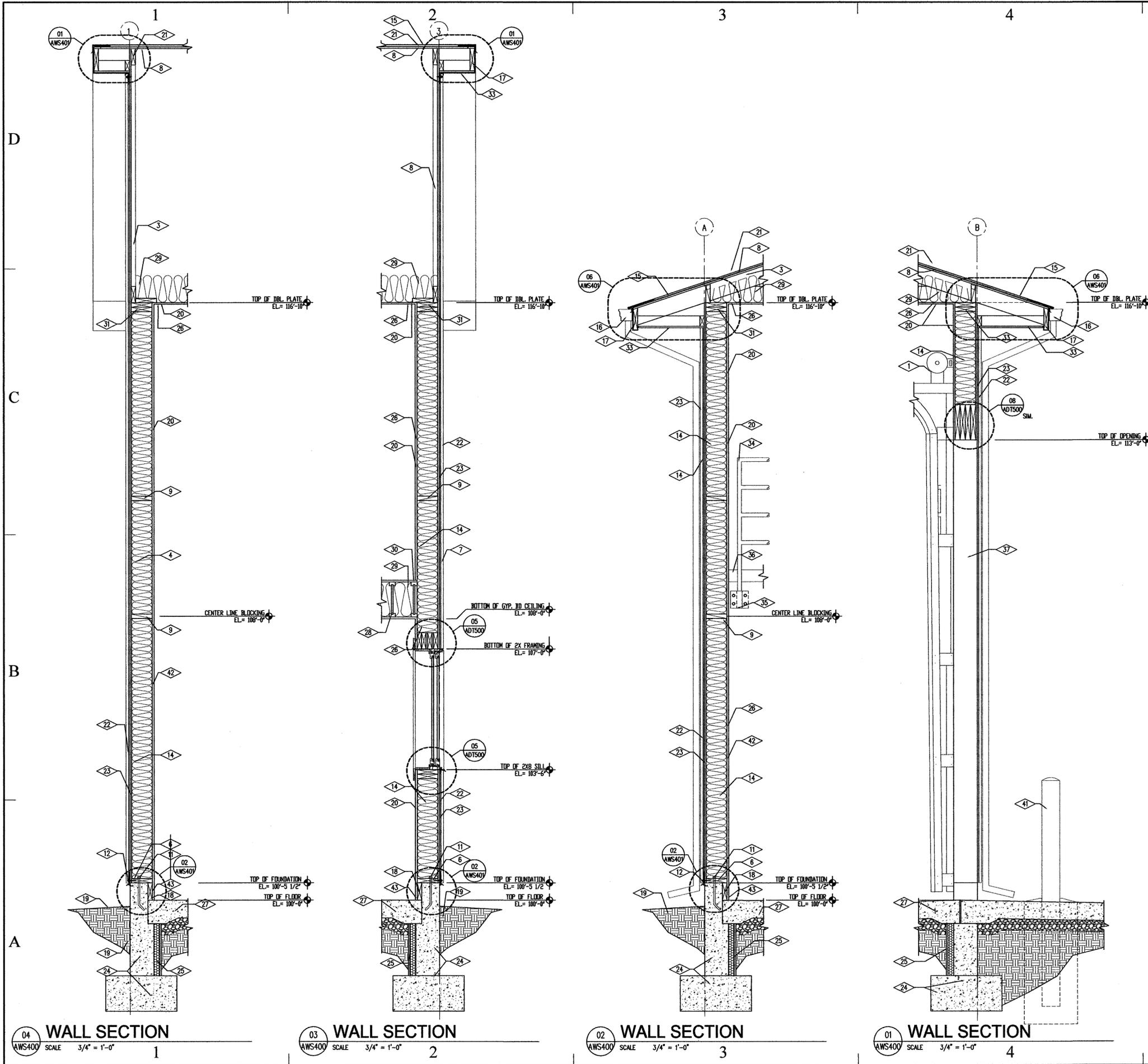
03 TRENCH DRAIN SECTION
ABS300 SCALE 1 1/2" = 1'-0"



02 BUILDING SECTION
ABS300 SCALE 1/4" = 1'-0"



01 BUILDING SECTION
ABS300 SCALE 1/4" = 1'-0"



5 REFERENCE NOTES

- 1 MOTORIZED SECTIONAL OVERHEAD DOOR AND TRACK SYSTEM, SEE SPECIFICATIONS
- 2 NOT USED
- 3 WOOD TRUSS SYSTEM SEE STRUCTURAL DRAWINGS
- 4 2"x8" WOOD STUD FRAMING, SEE STRUCTURAL
- 5 HOLLOW METAL DOOR & FRAME BEYOND, SEE SPECIFICATION
- 6 2"x8" TREATED SILL PLATE W/ SILL GASKET, SEE SPECIFICATION
- 7 15LB. ASPHALT IMPREGNATED BUILDING PAPER
- 8 ROOF SHEATHING, SEE STRUCTURAL
- 9 FIRE BLOCKING, SEE DETAIL
- 10 4" COMPACTED GRAVEL BASE
- 11 ANCHOR BOLT, SEE STRUCTURAL
- 12 PROVIDE BASE FLASHING AT BOTTOM OF METAL WALL PANEL AS PER METAL WALL PANEL MANUFACTURER REQUIREMENTS, SEE DETAIL
- 13 15LB. ROOFING FELT OVER ROOF SHEATHING, SEE SPECIFICATION
- 14 R-25 BATT INSULATION
- 15 PROVIDE ICE AND WATER SHIELD AT PERIMETER OF ROOF, SEE ROOF PLAN
- 16 BAKED ENAMEL SEAMLESS RAINGUTTERS WITH DOWN SPOUTS. EXTEND RAIN GUTTER 1'-8" FROM BASE OF STRUCTURE. PROVIDE A PRECAST CONCRETE SPLASH AT DOWN SPOUT LOCATIONS.
- 17 PREFINISHED METAL FASCIA & SOFFIT, SEE DETAIL & SPECIFICATION
- 18 TREATED 2"x6" ANCHORED TO CONCRETE ROUNDED WALL WITH RECESSED 1/2" EXPANSION ANCHOR BOLTS AT 24" O.C.
- 19 FINISH GRADE, SEE SITE PLAN
- 20 5/8" TYPE "X" GYPSUM BOARD, PRIMED AND PAINTED
- 21 30 YEAR ASPHALT SHINGLE OVER 15 LB. ASPHALT IMPREGNATED ROOFING FELT
- 22 PREFINISHED BAKED ENAMEL METAL WALL PANEL SYSTEM, WITH EXPOSED FASTENERS AND NEOPRENE WASHERS, SEE SPECIFICATION
- 23 WALL SHEATHING, SEE STRUCTURAL DRAWINGS
- 24 CONCRETE FOOTING & FOUNDATION, SEE STRUCTURAL
- 25 2" FOUNDATION PERIMETER INSULATION WITH 1/2" PROTECTION BOARD
- 26 6 MIL VAPOR BARRIER
- 27 6" CONCRETE FLOOR SLAB, SEE STRUCTURAL
- 28 MEZZINE FLOOR FRAMING, SEE STRUCTURAL
- 29 R-38 BATT INSULATION
- 30 FLOOR SHEATHING, SEE STRUCTURAL
- 31 DBL. 2X TOP PLATE
- 32 NOT USED
- 33 PRE FINISHED, VENTED METAL, SOFFIT SYSTEM, SEE SPECIFICATION



PROJECT TITLE:

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RESOURCES

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B VERNAL, UTAH

MARK	DATE	DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS		
ISSUE DATE: 27th March, 2009		
DFCM PROJECT NO: 07319520		
CAD PROJECT NO:		
CAD DWG FILE:		
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SHEET TITLE		

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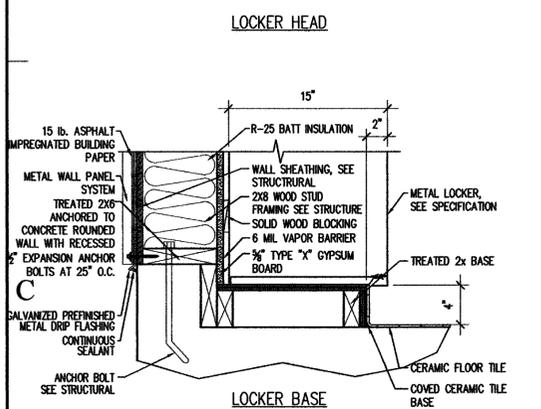
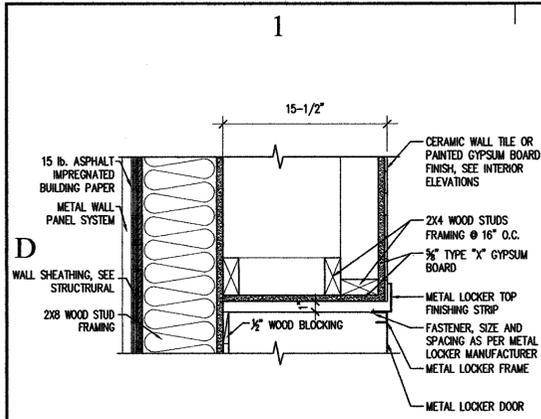
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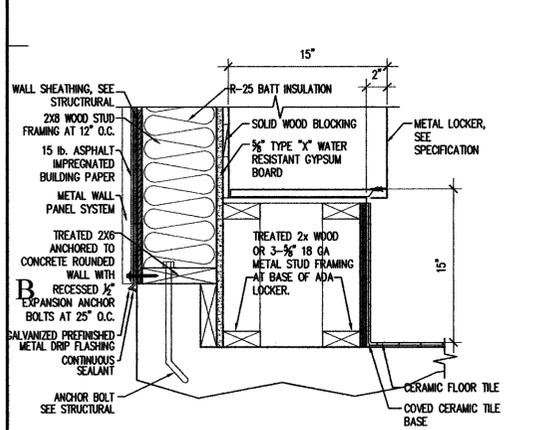
WALL SECTIONS

SHEET NUMBER

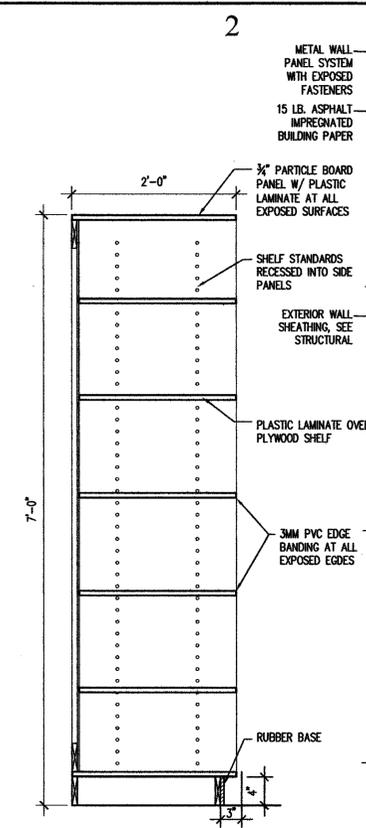
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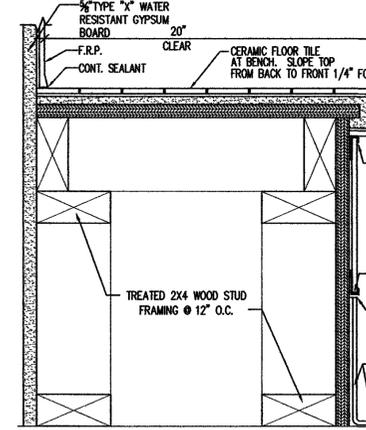
09 LOCKER DETAIL
 SCALE 1-1/2" = 1'-0"



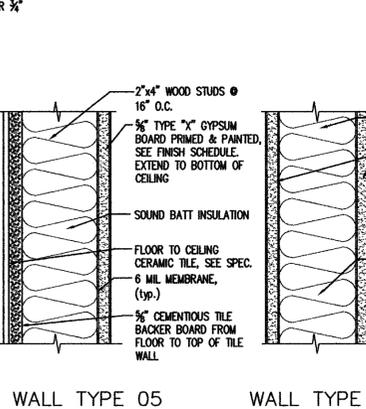
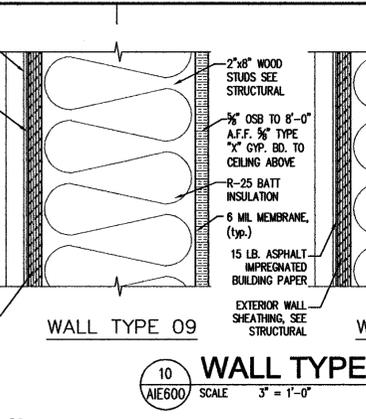
06 ADA LOCKER BASE DETAIL
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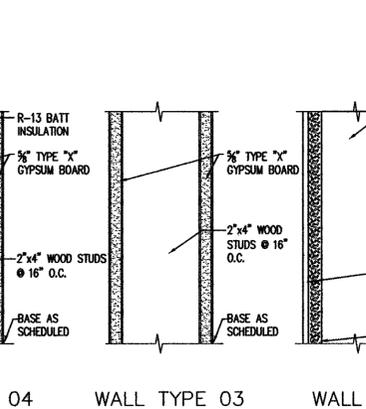
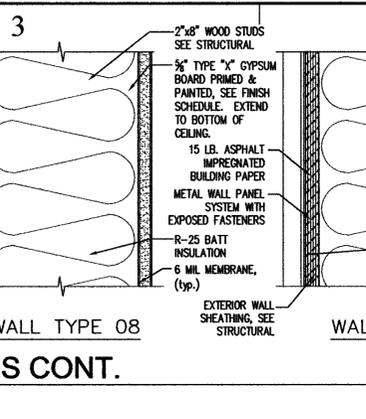
08 CASEWORK SECTION
 SCALE 1" = 1'-0"



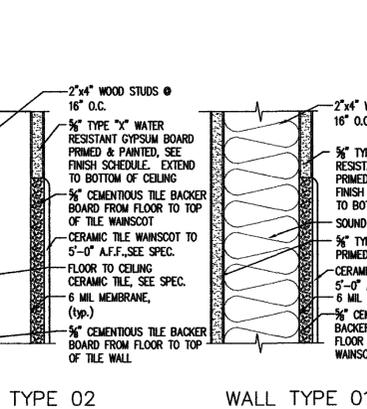
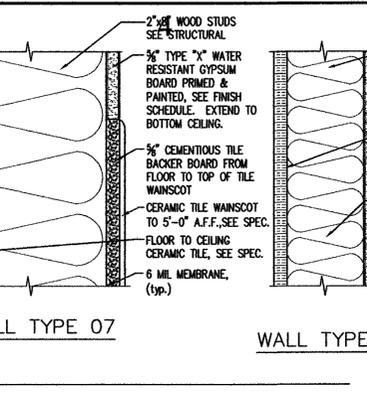
05 BENCH SECTION
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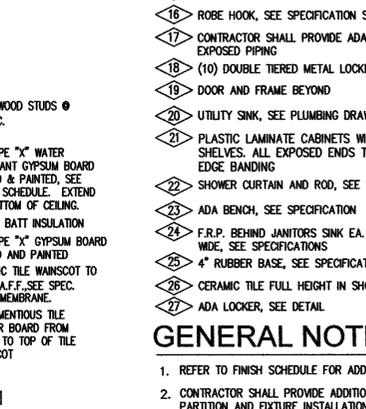
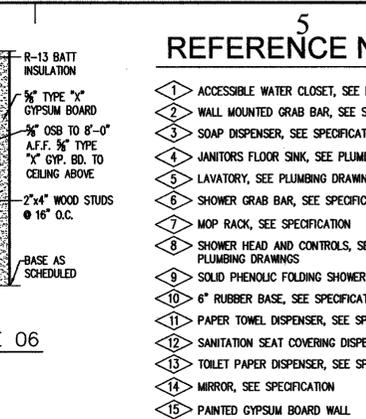
07 WALL TYPES
 SCALE 3" = 1'-0"



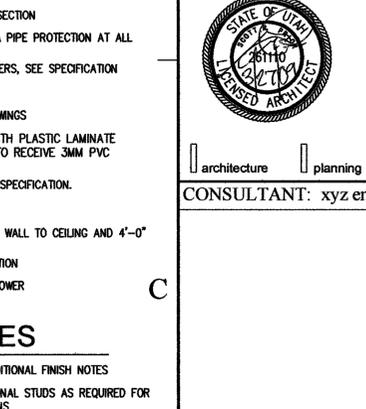
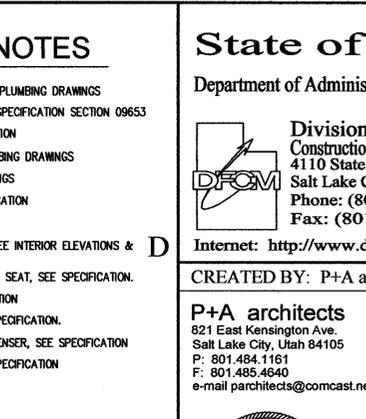
04 INT. ELE. UTILITY 102
 SCALE 1/4" = 1'-0"



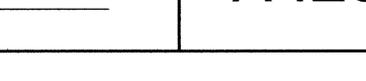
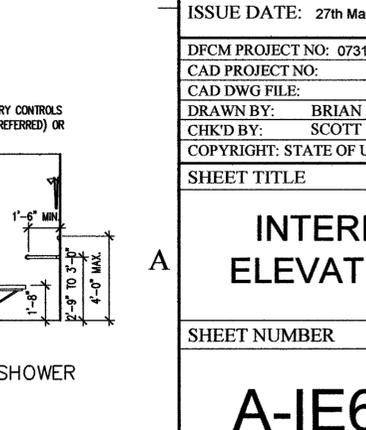
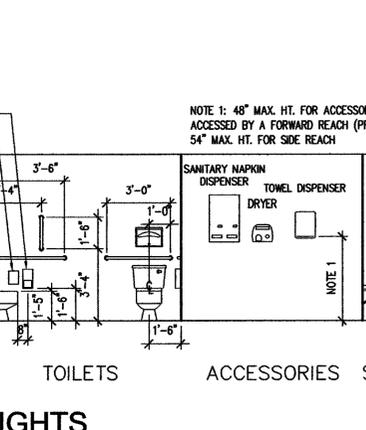
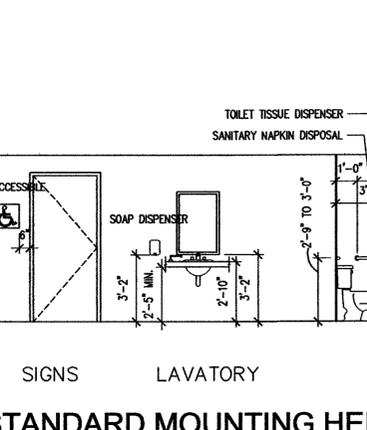
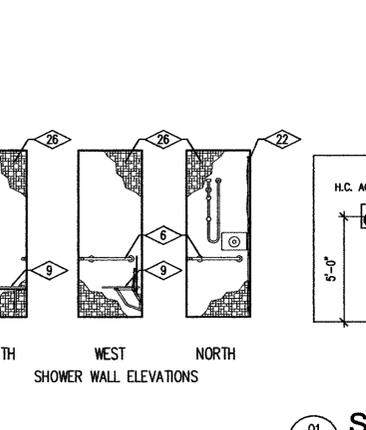
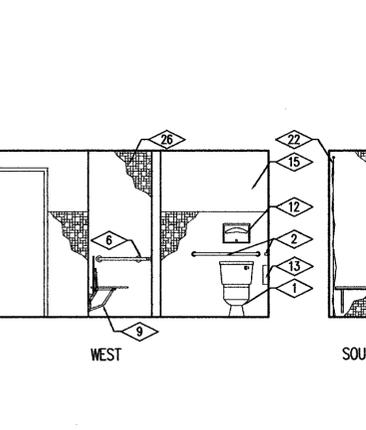
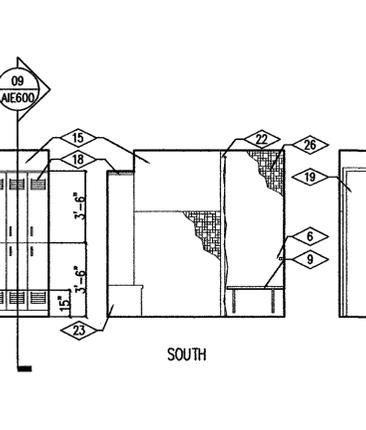
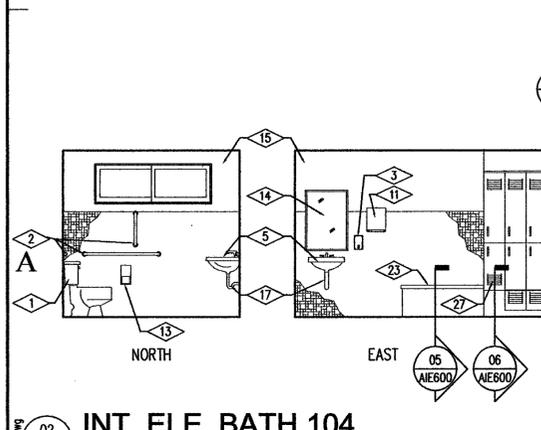
03 INT. ELE. STORAGE ROOM 101
 SCALE 1/4" = 1'-0"



02 INT. ELE. BATH 104
 SCALE 1/4" = 1'-0"



02 INT. ELE. BATH 104
 SCALE 1/4" = 1'-0"



5 REFERENCE NOTES

- 1 ACCESSIBLE WATER CLOSET, SEE PLUMBING DRAWINGS
- 2 WALL MOUNTED GRAB BAR, SEE SPECIFICATION SECTION 09653
- 3 SOAP DISPENSER, SEE SPECIFICATION
- 4 JANITORS FLOOR SINK, SEE PLUMBING DRAWINGS
- 5 LAVATORY, SEE PLUMBING DRAWINGS
- 6 SHOWER GRAB BAR, SEE SPECIFICATION
- 7 MOP RACK, SEE SPECIFICATION
- 8 SHOWER HEAD AND CONTROLS, SEE INTERIOR ELEVATIONS & PLUMBING DRAWINGS
- 9 SOLID PHENOLIC FOLDING SHOWER SEAT, SEE SPECIFICATION
- 10 6" RUBBER BASE, SEE SPECIFICATION
- 11 PAPER TOWEL DISPENSER, SEE SPECIFICATION
- 12 SANITATION SEAT COVERING DISPENSER, SEE SPECIFICATION
- 13 TOILET PAPER DISPENSER, SEE SPECIFICATION
- 14 MIRROR, SEE SPECIFICATION
- 15 PAINTED GYPSUM BOARD WALL
- 16 ROBE HOOK, SEE SPECIFICATION SECTION
- 17 CONTRACTOR SHALL PROVIDE ADA PIPE PROTECTION AT ALL EXPOSED PIPING
- 18 (10) DOUBLE TIERED METAL LOCKERS, SEE SPECIFICATION
- 19 DOOR AND FRAME BEYOND
- 20 UTILITY SINK, SEE PLUMBING DRAWINGS
- 21 PLASTIC LAMINATE CABINETS WITH PLASTIC LAMINATE SHELVES. ALL EXPOSED ENDS TO RECEIVE 3MM PVC EDGE BANDING
- 22 SHOWER CURTAIN AND ROD, SEE SPECIFICATION
- 23 ADA BENCH, SEE SPECIFICATION
- 24 F.R.P. BEHIND JANITORS SINK EA. WALL TO CEILING AND 4'-0" WIDE, SEE SPECIFICATIONS
- 25 4" RUBBER BASE, SEE SPECIFICATION
- 26 CERAMIC TILE FULL HEIGHT IN SHOWER
- 27 ADA LOCKER, SEE DETAIL

GENERAL NOTES

1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES
2. CONTRACTOR SHALL PROVIDE ADDITIONAL STUDS AS REQUIRED FOR PARTITION AND FIXTURE INSTALLATIONS
3. GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING AND ADDITIONAL STUDS AS REQUIRED FOR INSTALLATION OF TOILET PARTITIONS, URINAL SCREENS, ALL PLUMBING FIXTURES, APPLIANCES, COUNTER TOPS ETC. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL BACKING REQUIRED TOILET ROOM ACCESSORIES.
4. CONTRACTOR TO FIELD VERIFY LOCATION AND PLACEMENT OF ALL FIXTURES AND ACCESSORIES AND COORDINATE WITH A.D.A. REQUIREMENTS
5. PROVIDE PLYWOOD BEHIND ALL MIRROR SURFACES FLUSH WITH TILE. EXTEND TILE 2" INSIDE EDGE OF MIRROR TO CONCEAL EDGE, TYPICAL.
6. TILE AT WALLS TO INCLUDE 15% FACTOR FOR ACCENT COLOR. PATTERN FOR ACCENT BANDS TO BE PROVIDED DURING CONSTRUCTION PERIOD USING FULL AND HALF SIZE PIECES (HALF SIZES MAY INCLUDE DIAGONAL CUTS).
7. ALL CORNERS AND TERMINATORS AT TILE SHALL BE BULLNOSED
8. CONTRACTOR SHALL PROVIDE ADA PIPE PROTECTION AT ALL EXPOSED PIPING

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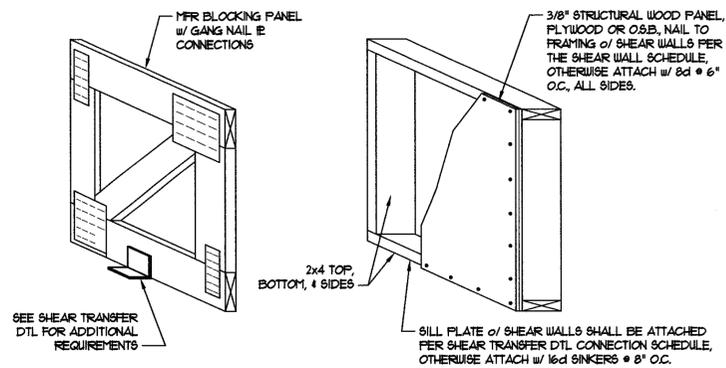
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architecture | planning | design

CONSULTANT: xyz engineering

PROJECT TITLE:
 DIVISION OF WILDLIFE RESOURCES
 NEW SHOP BUILDING
 VERNAL, UTAH

MARK	DATE	DESCRIPTION
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INTERIOR ELEVATIONS		
SHEET NUMBER		
A-IE600		



TYPICAL BLOCKING PANEL

N.T.S.

7

STUD HEIGHT TABLE	
STUD WALL TYPE	MAX. HEIGHT
2x4 STUD @ 16" O.C.	10'-0"
2x4 STUD @ 12" O.C.	11'-6"
(2) 2x4 STUD @ 16" O.C.	14'-0"
2x4 DFL #2 @ 16" O.C.	12'-0"
2x4 DFL #2 @ 12" O.C.	13'-0"
(2) 2x4 DFL #2 @ 16" O.C.	14'-0"
2x6 STUD @ 16" O.C.	17'-0"
2x6 STUD @ 12" O.C.	19'-6"
(2) 2x6 STUD @ 16" O.C.	22'-6"
2x6 DFL #2 @ 16" O.C.	18'-6"
2x6 DFL #2 @ 12" O.C.	20'-6"
(2) 2x6 DFL #2 @ 16" O.C.	22'-6"
2x8 DFL #2 @ 24" O.C.	19'-0"
2x8 DFL #2 @ 12" O.C.	26'-6"
(2) 2x8 DFL #2 @ 16" O.C.	30'-0"
1-3/4 x 7-1/4 LVL STUDS @ 16" O.C.	27'-0"

NOTES:
 1. THIS TABLE ASSUMES IBC WIND LOADS w/ 90 mph, EXP. "B"
 2. THIS TABLE ASSUMES AXIAL DL = 500 lb/ft, LL = 500 lb/ft.

STANDARD STUD TABLE

N.T.S.

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SHEAR WALL SCHEDULE					SILL ANCHORAGE SCHEDULE				
MARK	MIN. MATERIAL / BLOCKING	SHEAR NAILING		CAPACITY	MARK	END SILL THICKNESS	1/2" BOLT SPACING		CAPACITY
		EDGES / BOUNDARIES	FIELD NAILING				1/2" BOLT SPACING	3/4" BOLT SPACING	
△	1/2" FLYTD OR OSB BLOCKED	8d COMMON NAILS @ 6" O.C.	8d COMMON NAILS @ 8" O.C.	220	△	2x	32" O.C.	48" O.C.	305
△	1/2" FLYTD OR OSB BLOCKED	8d COMMON NAILS @ 4" O.C.	8d COMMON NAILS @ 8" O.C.	320	△	2x	24" O.C.	32" O.C.	350
△	1/2" FLYTD OR OSB BLOCKED	8d COMMON NAILS @ 3" O.C.	8d COMMON NAILS @ 8" O.C.	410	△	3x	18" O.C.	24" O.C.	600
△	1/2" FLYTD OR OSB BLOCKED	8d COMMON NAILS @ 2" O.C.	8d COMMON NAILS @ 8" O.C.	530	△	3x	12" O.C.	16" O.C.	865

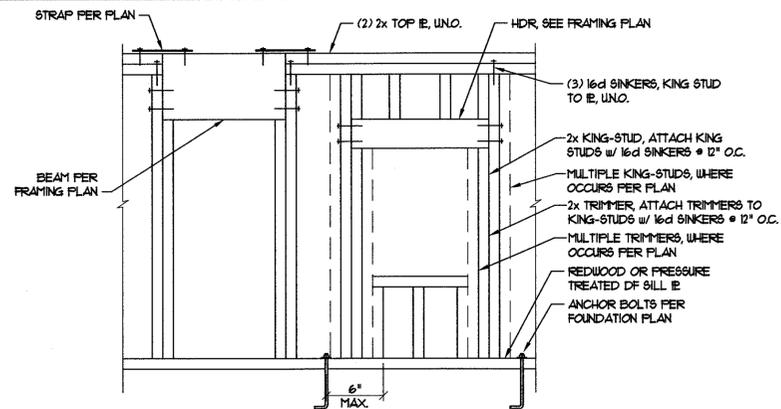
- ALL SHEAR WALLS SHALL BE FRAMED TO THE MINIMUM LENGTHS SHOWN ON THE PLANS WITH THE TOLERANCES INDICATED ON THE TABLE BELOW.
- ALL SHEAR WALLS SHALL TERMINATE ON AT LEAST 10" FULL HEIGHT STUD. ADDL STUDS OR SOLID PORTS SHALL BE INSTALLED AS REQD FOR HOLD-DOWNS, WHERE THEY OCCUR.
- ALL FLYTD / OSB SHEAR WALLS SHALL BE NAILED W/ COMMON NAILS AS INDICATED ON THE SCHEDULES (8d SHANK DIA. = .3125" SHANK DIA. = .3187").
- DOUBLE SIDED SHEAR WALLS SHALL HAVE SILL ANCHORAGE SPACED AT HALF THE VALUE INDICATED ON THE TABLE.
- DOUBLE SIDED SHEAR WALLS WITH WALL SPACING LESS THAN 4" O.C. SHALL HAVE INTERIOR PANEL EDGES NAILED TO ALTERNATE STUDS.
- ALL SHEAR-WALL ANCHOR BOLTS SHALL INCLUDE A STEEL 3"x6"x1/8" PLATE WASHER BETWEEN THE SILL & INT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 1/2" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 8". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
- FOR SHEAR WALLS 7" AND 7 1/2" ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ADJUTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NORMAL MEMBER. WALLS SHALL BE STAGGERED.
- ALL ANCHOR BOLTS SHALL HAVE 1" MIN. EMBEDMENT AND SHALL BE PER ARM ASMT.
- FOR ALL DOUBLE-SIDED SHEAR WALLS TOP AND 7/8" FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ADJUTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NORMAL MEMBER. WALLS SHALL BE STAGGERED.
- ALL SHEAR-WALLS SHALL BE ANCHORED WITH THE HOLD-DOWN ANCHORAGE SHOWN IN THE ABOVE TABLE UNLESS SPECIFICALLY NOTED OTHERWISE.
- WHERE SILL PLATES ARE APPLIED, EACH END SHALL BE FRAMED W/ (2) 8d NAILS.

SHEAR WALL LENGTH TOLERANCES	
SPECIFIED SHEAR WALL LENGTH	ACCEPTABLE SHEAR WALL TOLERANCE
UP TO 3'-0"	± 1/2"
OVER 3'-0" AND UP TO 5'-0"	± 3/4"
OVER 5'-0" AND UP TO 10'-0"	± 1"
OVER 10'-0"	± 1 1/2"

STANDARD SHEAR WALL SCHEDULE

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1



TYPICAL WALL FRAMING

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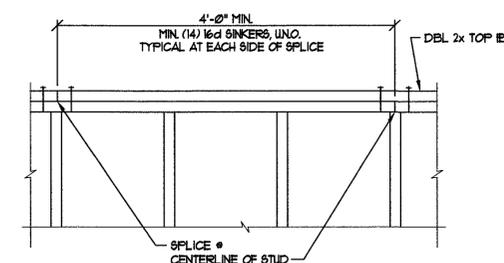
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7/16" & 3/8" SHEATHING NAILING ALTERNATES	
8d COMMON NAIL SPACING	ICBO APPROVED STAPLE SPACING 16 GAUGE (1-1/2" LONG)
2" O.C.	N/A
3" O.C.	N/A
4" O.C.	2" O.C.
6" O.C.	3" O.C.
12" O.C.	6" O.C.

STANDARD ALTERNATE NAILING TABLE

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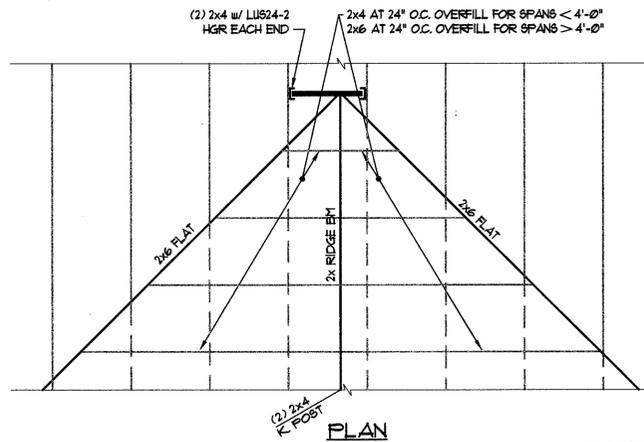
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TYPICAL TOP PLATE SPLICE

N.T.S.

9



TYPICAL OVERBUILD

N.T.S.

6

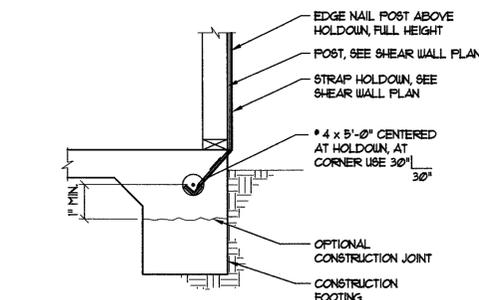
HOLDOWN ANCHORAGE SCHEDULE	
HOLDOWN	ANCHORAGE
STHD8	PER MANUFACTURER & DTL 10'-
STHD14	PER MANUFACTURER & DTL 10'-
PHD8 & HDQ8	SSTB28 OR 7/8" DIA. A307 ALL THREAD ROD EPOXY GROUTED IN 1" DIA. x 15" DEEP HOLE w/ HILTI HIT-RE 500-SD EPOXY. NO SUBSTITUTIONS.
HTT16 & HTT22	5/8" DIA. A307 ALL THREAD ROD w/ END NUT & WASHER EMBEDDED 10" OR 5/8" DIA. A307 ALL THREAD ROD EPOXY GROUTED IN 3/4" DIA. x 10" DEEP HOLE w/ HILTI HIT-RE 500-SD EPOXY. NO SUBSTITUTIONS.

NOTE:
 INCREASE FOOTING DEPTH AS REQUIRED FOR 3" MIN. COVER BELOW BOLT & COORDINATE EXACT LOCATIONS WITH THE FRAMING CONTRACTOR.
 HOLD-DOWNS MAY BE INSTALLED 4" MAX. FROM SHEAR WALL EDGE. BOUNDARY NAILING MUST BE PROVIDED @ STUDS ALIGNED w/ HOLD-DOWNS.

STANDARD HOLDOWN ANCHORAGE SCHEDULE

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2



TYPICAL STRAP DETAIL

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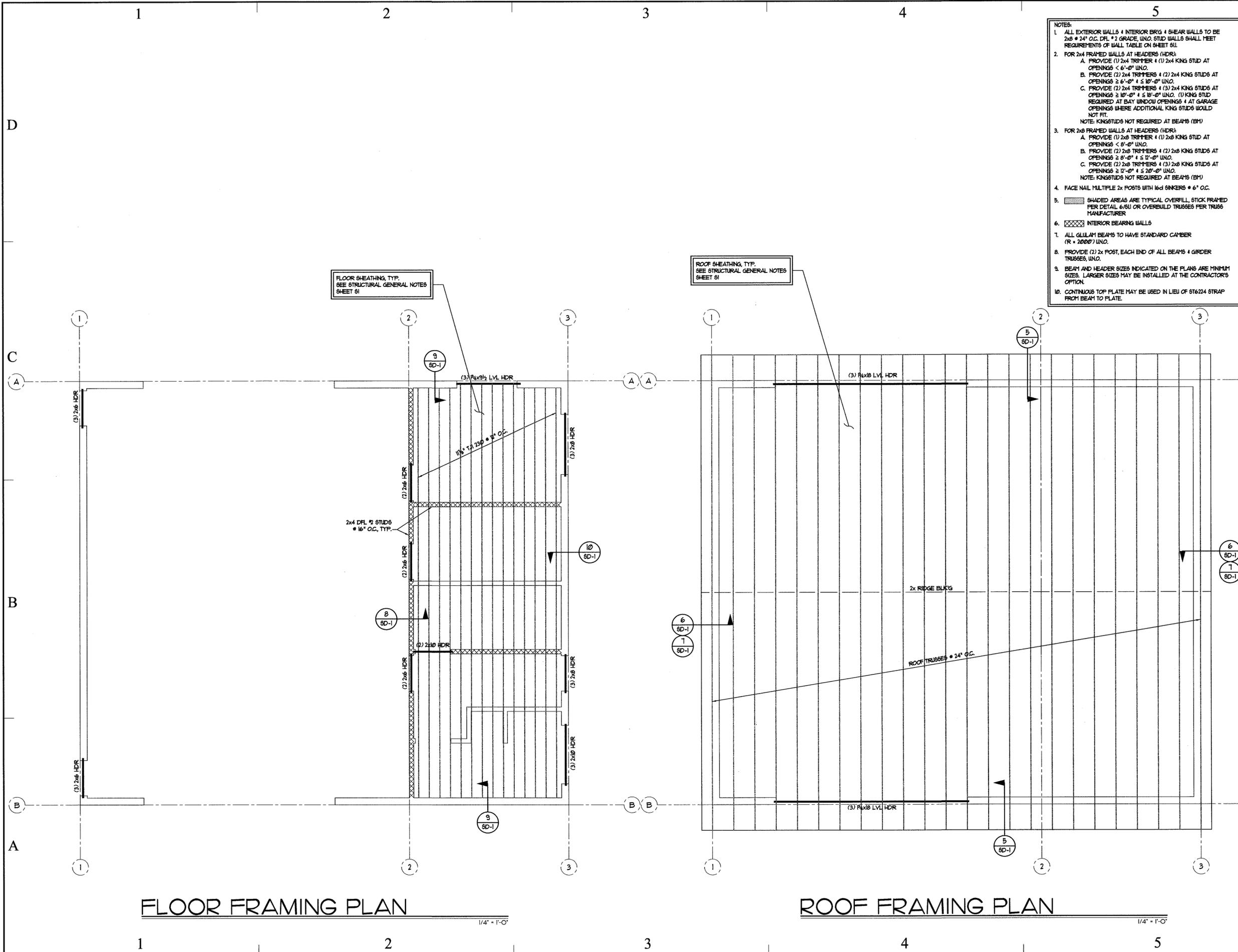
FOOTING SCHEDULE		
MARK	SIZE	REBAR
F2.0	2'-0" SQ. x 12" THICK	(3) * 4 EACH WAY
F2.5	2'-6" SQ. x 12" THICK	(4) * 4 EACH WAY
F3.0	3'-0" SQ. x 12" THICK	(4) * 4 EACH WAY
F3.5	3'-6" SQ. x 12" THICK	(5) * 4 EACH WAY
F4.0	4'-0" SQ. x 12" THICK	(6) * 4 EACH WAY
F4.5	4'-6" SQ. x 12" THICK	(6) * 4 EACH WAY
F5.0	5'-0" SQ. x 12" THICK	(7) * 4 EACH WAY
F5.5	5'-6" SQ. x 12" THICK	(8) * 4 EACH WAY

STANDARD SPOT FOOTING SCHEDULE

N.T.S.

3

- NOTES:
- ALL EXTERIOR WALLS & INTERIOR BRG & SHEAR WALLS TO BE 2x8 @ 24" O.C. DFL #2 GRADE UNO. STUD WALLS SHALL MEET REQUIREMENTS OF WALL TABLE ON SHEET 8U.
 - FOR 2x4 FRAMED WALLS AT HEADERS (HDR):
 - PROVIDE (1) 2x4 TRIMMER & (1) 2x4 KING STUD AT OPENINGS < 6'-0" UNO.
 - PROVIDE (2) 2x4 TRIMMERS & (2) 2x4 KING STUDS AT OPENINGS ≥ 6'-0" & ≤ 10'-0" UNO.
 - PROVIDE (2) 2x4 TRIMMERS & (3) 2x4 KING STUDS AT OPENINGS ≥ 10'-0" & ≤ 18'-0" UNO. (1) KING STUD REQUIRED AT BAY WINDOW OPENINGS & AT GARAGE OPENINGS WHERE ADDITIONAL KING STUDS WOULD NOT FIT.
 NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
 - FOR 2x8 FRAMED WALLS AT HEADERS (HDR):
 - PROVIDE (1) 2x8 TRIMMER & (1) 2x8 KING STUD AT OPENINGS < 8'-0" UNO.
 - PROVIDE (2) 2x8 TRIMMERS & (2) 2x8 KING STUDS AT OPENINGS ≥ 8'-0" & ≤ 12'-0" UNO.
 - PROVIDE (2) 2x8 TRIMMERS & (3) 2x8 KING STUDS AT OPENINGS ≥ 12'-0" & ≤ 20'-0" UNO.
 NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
 - FACE NAIL MULTIPLE 2x POSTS WITH 16d SINKERS @ 6" O.C.
 - SHADED AREAS ARE TYPICAL OVERFILL, STICK FRAMED PER DETAIL 6/8U OR OVERBUILD TRUSSES PER TRUSS MANUFACTURER.
 - INTERIOR BEARING WALLS
 - ALL GLULAM BEAMS TO HAVE STANDARD CAMBER (R = 2000') UNO.
 - PROVIDE (2) 2x POST, EACH END OF ALL BEAMS & GIRDER TRUSSES, UNO.
 - BEAM AND HEADER SIZES INDICATED ON THE PLANS ARE MINIMUM SIZES. LARGER SIZES MAY BE INSTALLED AT THE CONTRACTOR'S OPTION.
 - CONTINUOUS TOP PLATE MAY BE USED IN LIEU OF ST6224 STRAP FROM BEAM TO PLATE.



FLOOR FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN

1/4" = 1'-0"

PLUMBING SYMBOL LEGEND \ ABBREVIATIONS			
FD	FLOOR DRAIN	RISE IN PIPE	CHECK VALVE
FOO	FLOOR CLEAN OUT	ELBOW IN PIPE	BALANCE VALVE
WCO	WALL CLEAN OUT	TEE IN PIPE	VTR
DCM	DOMESTIC COLD WATER (DCM)	GAS SHUTOFF VALVE	WHA
DHM	DOMESTIC HOT WATER (DHM)	GAS PRESSURE REGULATOR	A.D.
DHWP	DOMESTIC HOT WATER RECIRC. (DHWP)	BALL VALVE	A.F.F.
WASTE (W)	WASTE (W)	PIPE CAP	WH
VENT (V)	VENT (V)	VALVE IN DROP	HB
DROP IN PIPE	DROP IN PIPE	UNION	MV

PLUMBING FIXTURE SCHEDULE							
SYMBOL	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS
P-1	WATER CLOSET, FLOOR MOUNTED, FLUSH TANK TYPE, ADA COMPLIANT	1/2"	-	INT.	3"	2"	-
P-2	LAVATORY, WALL MOUNTED, ADA COMPLIANT, AUTOMATIC FAUCET	1/2"	1/2"	1-1/4"	2"	1-1/2"	-
P-3	SERVICE SINK, WALL MOUNTED, PORCELAIN COATED CAST IRON W/ P-TRAP	1/2"	1/2"	3"	3"	2"	-
P-4	B-LEVEL ELECTRIC WATER COOLER	1/2"	-	1-1/2"	1-1/2"	1-1/2"	-
P-5	SERVICE SINK, FLOOR MOUNTED, PORCELAIN COATED CAST IRON	1/2"	1/2"	3"	3"	2"	-
P-6	SHOWER, SINGLE VALVE, THERMOSTATIC MIXING	1/2"	1/2"	2"	2"	2"	-
FD	FLOOR DRAIN, 6" DIAMETER GRATE	-	-	2"	2"	2"	-
SD	SHOWER DRAIN, 6" DIAMETER GRATE	-	-	2"	2"	2"	-
TD-1	12" WIDE PRE-SLOPED TRENCH DRAIN WITH GALVANIZED STEEL GRATE	-	-	-	-	-	ZURN Z882 OR EQUAL
CB-1	24" x 24" CATCH BASIN WITH GALVANIZED STEEL GRATE	-	-	-	4"	-	ZURN Z887 OR EQUAL
COTG	CLEAN OUT TO GRADE	-	-	-	-	-	-
FOO	FLOOR CLEAN OUT	-	-	-	-	-	-
WCO	WALL CLEAN OUT	-	-	-	-	-	-

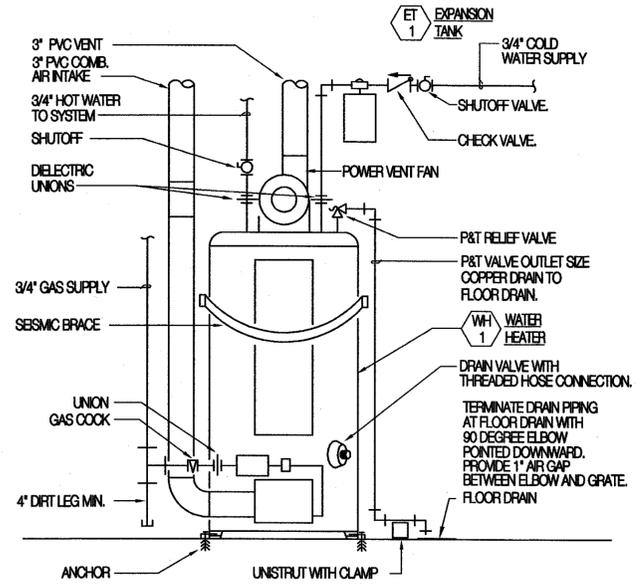
- GENERAL FIXTURE NOTES:**
- THE PLUMBING CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF ALL PLUMBING EQUIPMENT AND THE RELATED ROUGH IN LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS. PROVIDE ALL ACCESSORIES AND OPTIONS REQUIRED TO PROVIDE THE OWNER A COMPLETELY FUNCTIONAL PLUMBING SYSTEM.
 - ALL WALL HUNG PLUMBING FIXTURES SHALL BE SUPPORTED BY FLOOR MOUNTED CARRIERS BY WADE, SMITH, JOSAM, MIFAB, OR WATTS. CARRIERS SHALL BE CONSTRUCTED UTILIZING ALL METAL COMPONENTS WITH SUPPORT FEET SECURELY ANCHORED TO THE FLOOR STRUCTURE. FIXTURES SHALL SUPPORT FIXTURE INDEPENDENT FROM WALL STRUCTURE.
 - EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED QUARTER TURN STOP VALVE BRASS CRAFT MODEL KTOR, OR ENGINEER APPROVED EQUIV.
 - FIXTURES AND ACCESSORIES SHALL BE AS SCHEDULED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM.
 - ADA COMPLIANT FIXTURES SHALL BE INSTALLED WITH PRE-FORMED INSULATION AND PROTECTIVE COVERS ON P-TRAPS AND STOPS. COVERS TO BE MANUFACTURED BY BUCKAROODS OR TRUEBRO.
 - CAULK ALL FIXTURES TO THE WALL OR FLOOR WITH AFFIXABLE SILICONE COMPOUND. UTILIZE MULTIPLE BEADS TO FILL GAPS AND FINISH TO SMOOTH, FILLETED EDGE APPROPRIATE TOOLS. PROVIDE PROFESSIONAL APPEARANCE.
 - ALL PLUMBING SHALL BE INSTALLED TO CONFORM TO THE LATEST ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE INCLUDING LOCAL AMENDMENTS. CONSULT AUTHORITIES HAVING JURISDICTION.

WATER HEATER (WH)												
SYMBOL	NOMINAL INPUT BTUH	TANK VOLUME GALLONS	MINIMUM THERMAL EFF. (%)	INTAKE & EXHAUST TYPE / SIZE	ELEC. REQUIREMENTS			WATER CHARACTERISTICS			A.Q. SMITH MODEL	REMARKS
					VOLTS	PH.	HZ.	EWI °F	LWT °F	RECOVERY (GPH)		
WH-1	42,000	40	80+	PVC 3"	120	1	60	40	122	42.4	GPDH-40	

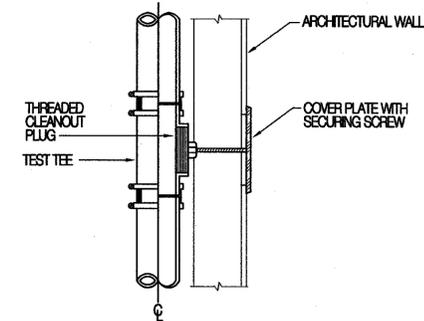
SEE SPECIFICATION SECTION 15446 FOR ADDITIONAL REQUIREMENTS.

EXPANSION TANK (ET)						
SYMBOL	TANK VOLUME GAL.	ACCEPT VOLUME GAL.	DUTY	AMTROL MODEL	ARRANGEMENT	REMARKS
ET-1	0.9	2.1	DOMESTIC WATER	ST-6	VERTICAL	

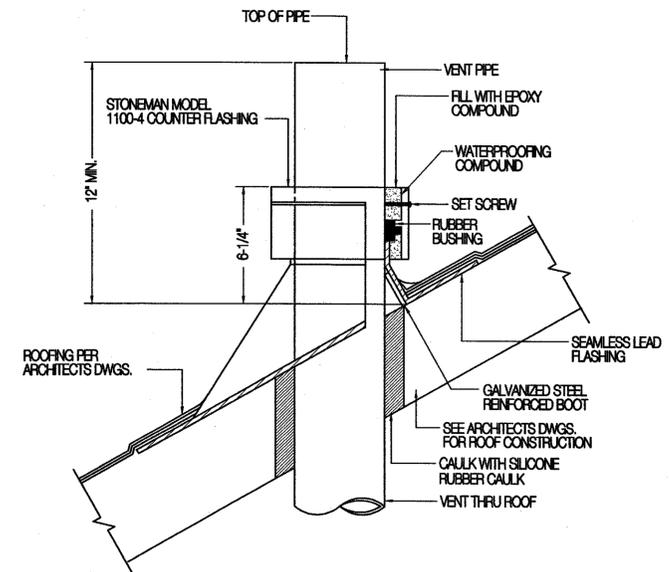
SEE SPECIFICATION SECTION 15410 FOR ADDITIONAL REQUIREMENTS.



1 WATER HEATER DETAIL
P-SH000 SCALE: NONE



2 WALL CLEANOUT DETAIL
P-SH000 SCALE: NONE



3 VENT THROUGH ROOF DETAIL
P-SH000 SCALE: NONE

State of Utah

Department of Administrative Services

Division of Facilities
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architecture | planning | design

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PROJECT TITLE:

DIVISION OF WILDLIFE RESOURCES

NEW SHOP BUILDING

VERNAL, UTAH

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 27th March, 2009

DFCM PROJECT NO: 07319520

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: STAFF

CHK'D BY: NDC

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SHEET TITLE

SHOP PLUMB. SCHEDULES

SHEET NUMBER

P-SH000

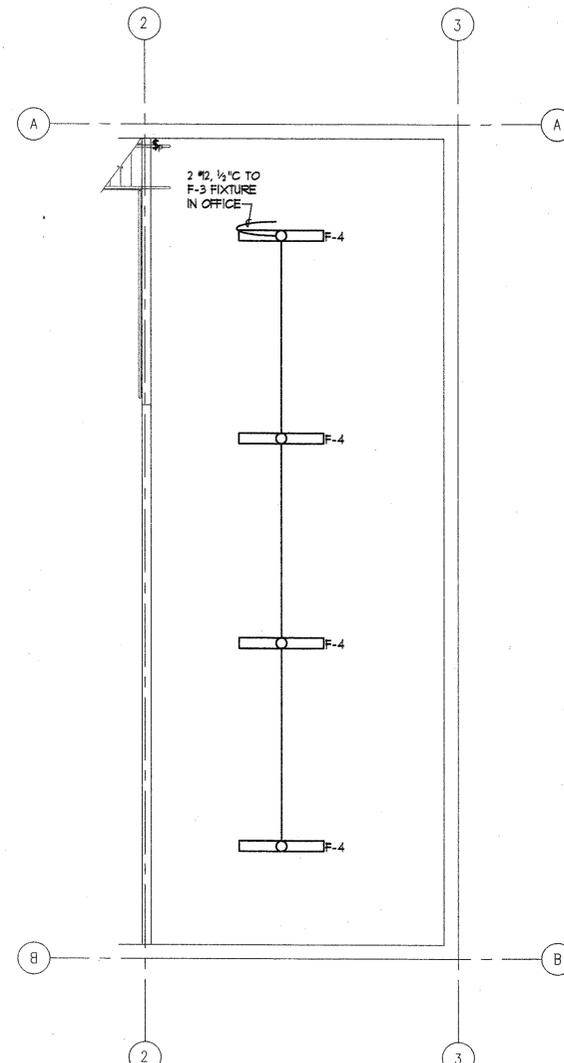


GENERAL NOTES:

- COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
- COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
- WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.
- MULTIPLE BALLASTS SHALL BE CONNECTED WITH INSIDE LAMP BALLAST CONTROLLED BY ONE SWITCH AND OUTSIDE LAMP BALLAST CONTROLLED BY SECOND SWITCH.

REFERENCE NOTES:

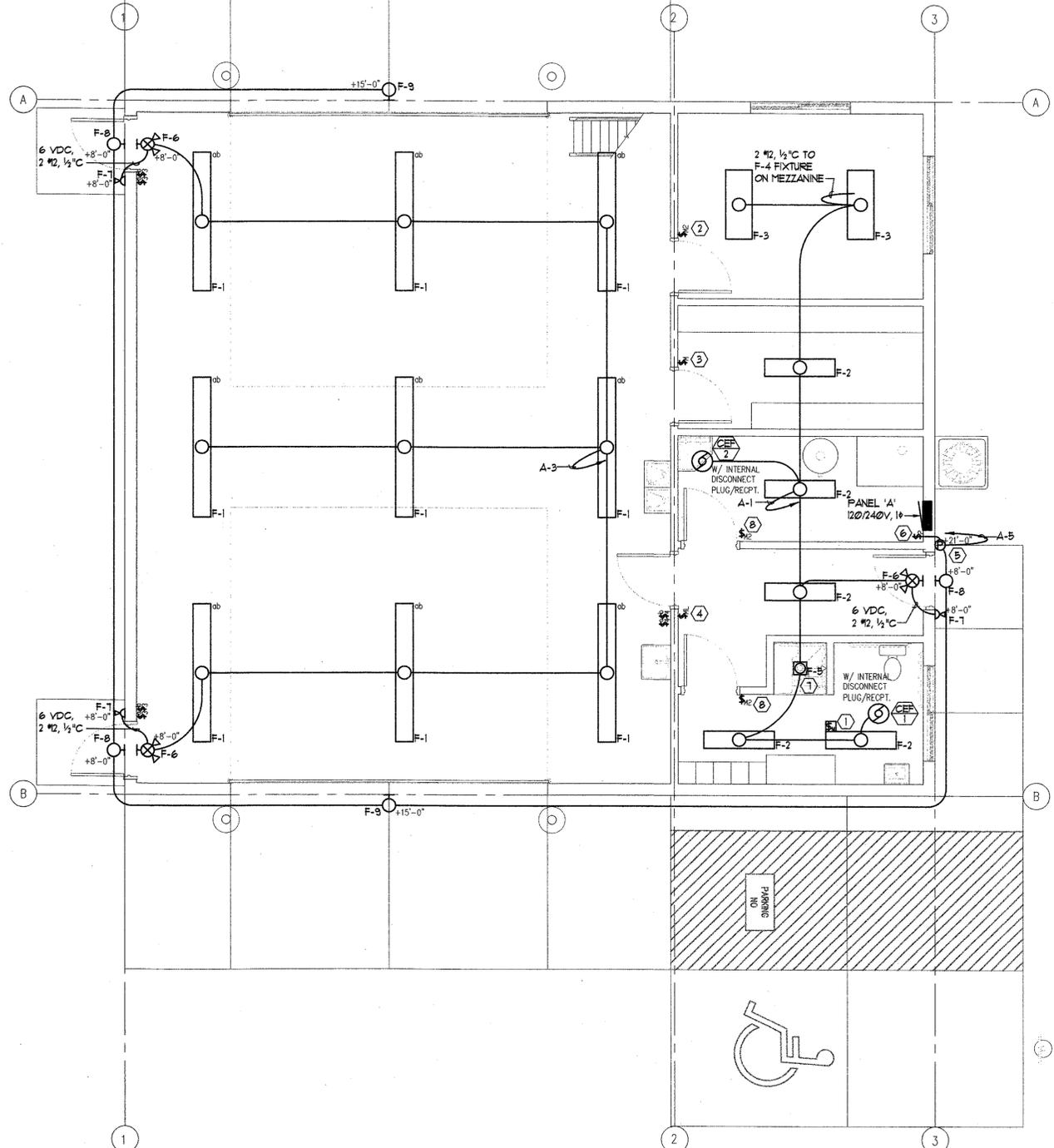
- PROVIDE LINE VOLTAGE DUAL TECHNOLOGY MOTION SENSOR. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CONNECT LOCAL SWITCHES TO LOAD SIDE OF SENSOR. SENSOR: WATT STOPPER TYPE 'DT-355' OR APPROVED EQUAL.
- PROVIDE DUAL CIRCUIT OCCUPANCY SENSOR SWITCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CIRCUIT INSIDE LAMP BALLAST(S) TO ONE SWITCH LEG AND OUTSIDE LAMP BALLAST(S) TO OTHER SWITCH LEG. SWITCH: WATT STOPPER TYPE 'FU-200' OR APPROVED EQUAL.
- PROVIDE OCCUPANCY SENSOR SWITCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SWITCH: WATT STOPPER TYPE 'WA-200' OR APPROVED EQUAL.
- PROVIDE OCCUPANCY SENSOR SWITCH WITH NIGHT LIGHT. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SWITCH: WATT STOPPER TYPE 'UN-100' OR APPROVED EQUAL.
- PROVIDE PHOTOCELL - 2000 WATT, 120 VOLT, WITH 8PST CONTACTS. INSTALL OUTSIDE FACING NORTH AND AWAY FROM LIGHT SOURCES. PHOTOCELL: TORK #101 OR APPROVED EQUAL.
- PROVIDE 8PDT SWITCH, LABEL 'EXTERIOR LIGHTING'. CONNECT EXTERIOR LIGHTING DIRECTLY THROUGH ONE POLE AND LABEL 'MANUAL'. CONNECT EXTERIOR LIGHTING THROUGH PHOTOCELL AND SECOND POLE AND LABEL 'AUTOMATIC'.
- DOWNLIGHT INSTALLED IN INSULATED CEILING. HOLD INSULATION BACK FROM FIXTURES MINIMUM OF 3" FROM ALL FIXTURE COMPONENTS. COORDINATE CLEARANCE REQUIREMENTS WITH FIXTURE MANUFACTURER, SUPPLIER AND GENERAL CONTRACTOR PRIOR TO ORDERING.
- PROVIDE DUAL CIRCUIT OCCUPANCY SENSOR SWITCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CIRCUIT LIGHT FIXTURES TO ONE SWITCH LEG AND EXHAUST FAN TO OTHER SWITCH LEG. SWITCH: WATT STOPPER TYPE 'FU-200' OR APPROVED EQUAL.



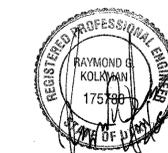
02 LIGHTING PLAN - MEZZANINE
SCALE 1/4" = 1'-0"

FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP
F-1	DAYBRITE METALUX	T1F-332-PP-UNV-1/42EB10R DC1M-332-UNV-ER82 4&2	8', 3 LAMP (TANDEM), SURFACE, INDUSTRIAL FIXTURE WITH 10% UPLIGHT, WHITE STEEL HOUSING AND ONE (1) FOUR LAMP AND ONE (1) 2 LAMP UNIVERSAL ELECTRONIC PROGRAMMED START BALLASTS (CONNECTED FOR INBOARD / OUTBOARD LAMP OPERATION).	6F32T8/TL835
F-2	DAYBRITE METALUX	CAN-232-UNV-1/2EB10R W-232-A-UNV-ER81	4', 2 LAMP, SURFACE WRAP-AROUND FLUORESCENT FIXTURE WITH PRISMATIC LENS, WHITE STEEL HOUSING AND UNIVERSAL ELECTRONIC PROGRAMMED START BALLAST.	2F32T8/TL835
F-3	DAYBRITE METALUX	CAN-432-UNV-2/2EB10R W-432-A-UNV-ER82	4', 4 LAMP, SURFACE WRAP-AROUND FLUORESCENT FIXTURE WITH PRISMATIC LENS, WHITE STEEL HOUSING AND TWO (2) TWO LAMP UNIVERSAL ELECTRONIC PROGRAMMED START BALLAST.	4F32T8/TL835
F-4	DAYBRITE METALUX	T-232-UNV-1/2EB10R SS-232-UNV-ER81	4', 2 LAMP, SURFACE STRIPLIGHT FIXTURE WITH WHITE STEEL HOUSING AND UNIVERSAL ELECTRONIC PROGRAMMED START BALLAST.	2F32T8/TL835
F-5	CAPRI HALO	FR6V180-R12P H280E1CAT-70PS	COMPACT FLUORESCENT IC RATED DOWNLIGHT FIXTURE WITH 6" DIAMETER APERTURE, ALBALITE LENS, WHITE TRIM (MOUNT LOCATION LABEL) AND 120 VOLT ELECTRONIC BALLAST.	1CF18PLT/35K
F-6	MCPHLBEN SURE-LITES	EXCLL-1R-DEH18 UNH1SRWDHL	COMBINATION LED EXIT LIGHT / EMERGENCY WALLPACK WITH RED LETTERS, CANDY, PRISMATIC DIFFUSER, STEEL HOUSING, WHITE FINISH, LEAD CALCIUM BATTERY (20 W @ 1-1/2 HRS), CHARGER, INDICATOR LIGHT, TEST SWITCH AND TWO (2) 5.4 W HEADS.	FURNISHED W/ FIXTURE
F-7	MCPHLBEN LIGHTOLIER	CCH1W10 ER-1-H10-W	REMOTE EMERGENCY HEAD WITH WHITE BACK PLATE, CLEAR DIFFUSER, GASKETED AND 10 W 6 VOLT HALDGEN HEAD.	FURNISHED W/ FIXTURE
F-8	NITE BRITES LUMARK	WCM-100M-MT MH-MN-100-H-MT	WALL MOUNTED METAL HALIDE FIXTURE WITH MEDIUM THROW DISTRIBUTION, PRISMATIC GLASS LENS, POWDER COAT FINISH AND MULTI-TAP HIGH POWER FACTOR BALLAST.	100W MH
F-9	NITE BRITES LUMARK	WCL-250M-MT MH-M4-250-H-MT	WALL MOUNTED METAL HALIDE FIXTURE WITH MEDIUM THROW DISTRIBUTION, PRISMATIC GLASS LENS, POWDER COAT FINISH AND MULTI-TAP HIGH POWER FACTOR BALLAST.	250W MH



01 LIGHTING PLAN - MAIN FLOOR
SCALE 1/4" = 1'-0"



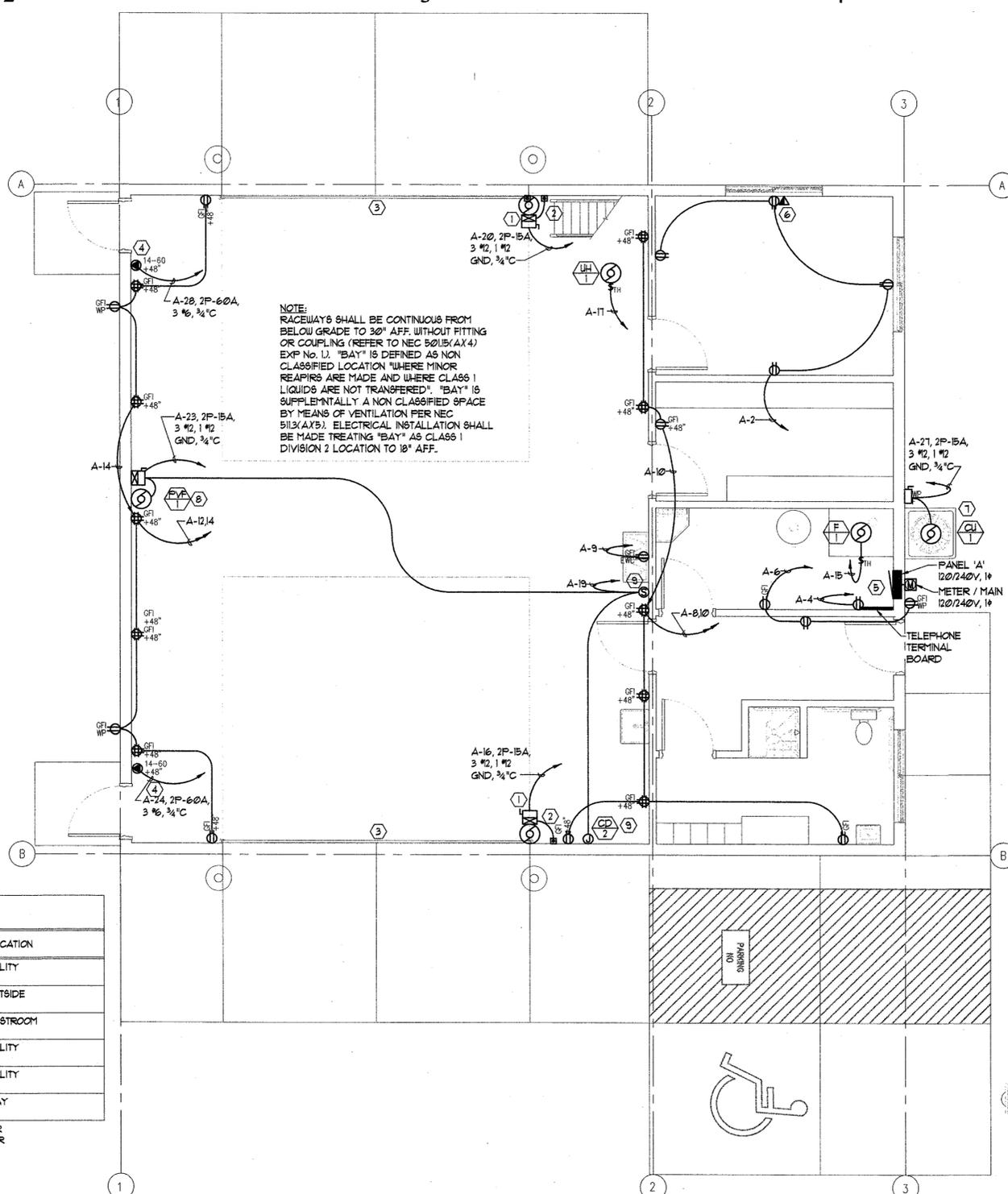
GENERAL NOTES:

- COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
- WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, THE BRANCH CIRCUIT SHALL BE THAT SIZE WIRE THROUGHOUT, INCLUDING SWITCH LEGS, ETC.
- FIELD COORDINATE LOCATION OF ALL NEW OUTLETS WITH OWNER'S FURNITURE AND EQUIPMENT LOCATIONS PRIOR TO ROUGHING IN NEW OUTLETS.

REFERENCE NOTES:

- OVERHEAD DOOR MOTOR STARTER FURNISHED WITH OVERHEAD DOOR. TO BE INSTALLED AND WIRED COMPLETE BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE FUSIBLE DISCONNECT SWITCH WITH PROVISIONS TO PADLOCK IN "OFF" POSITION.
- OVERHEAD DOOR MOTOR "OPEN-CLOSE-STOP" PUSHBUTTONS FURNISHED WITH OVERHEAD DOOR. TO BE INSTALLED AND WIRED COMPLETE BY ELECTRICAL CONTRACTOR. VERIFY QUANTITY OF CONTROL CONDUCTORS REQUIRED WITH OVERHEAD DOOR SUPPLIER.
- OVERHEAD DOOR SAFETY STRIP / ELECTRIC EYE FURNISHED WITH OVERHEAD DOOR. TO BE INSTALLED WITH DOOR AND WIRED COMPLETE BY ELECTRICAL CONTRACTOR. VERIFY QUANTITY OF CONTROL CONDUCTORS REQUIRED WITH OVERHEAD DOOR SUPPLIER.
- COORDINATE SPECIAL PURPOSE OUTLET REQUIREMENTS WITH OWNER'S EQUIPMENT PRIOR TO BEGINNING WORK. PROVIDE COMPATIBLE RECEPTACLE (MODIFY BRANCH AS REQUIRED) AND LOCATE AS DIRECTED.
- WORKING SPACE FOR ELECTRICAL EQUIPMENT FROM FLOOR TO 6'-6" ABOVE FLOOR. FULL WIDTH OF EQUIPMENT (OR 36" WIDE, WHICHEVER IS GREATER) TO EXTEND MINIMUM 36" FROM THE FRONT OF EQUIPMENT ENCLOSURE IN ACCORDANCE WITH NEC ARTICLE 110.26. COORDINATE WITH OTHER CONTRACTORS TO KEEP THE ELECTRICAL WORKING SPACE CLEAR OF PIPING, DUCTWORK, CONDUIT, ETC. ALSO, THE AREA ABOVE THE PANELBOARDS TO THE STRUCTURAL CEILING (BOTTOM OF ROOF DECK) THE WIDTH AND DEPTH OF THE PANELBOARD ENCLOSURE IS A DEDICATED ELECTRICAL SPACE IN ACCORDANCE WITH NEC ARTICLE 110.26(F). COORDINATE WITH OTHER CONTRACTORS TO KEEP THE DEDICATED ELECTRICAL SPACE CLEAR OF PIPING, DUCTWORK, ETC.
- PROVIDE 4" SQ. OUTLET BOX WITH SINGLE GANG FLASTER RING WITH 3/4" C TO TELEPHONE TERMINAL BOARD. TERMINATE RACEWAY WITH INSULATED THROUGH CONNECTOR. PROVIDE 200 LB TENSILE STRENGTH NYLON FULL STRING.
- PROVIDE CONTROL WIRING BETWEEN IN CONDUIT BETWEEN FURNACE F1 AND CONDENSING UNIT CU1. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE STARTER AND DISCONNECT FOR PROPELLER VENTILATION FAN AND WIRE COMPLETE. COORDINATE STARTER REQUIREMENTS WITH EQUIPMENT SUPPLIER AND INSTALLER. PRIOR TO BEGINNING WORK. INTERLOCK WITH CARBON MONOXIDE DETECTOR AND CONTROL DAMPER.
- INTERLOCK CARBON MONOXIDE DETECTOR AND CONTROL DAMPER. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER(S) AND INSTALLER(S), PRIOR TO BEGINNING WORK.

NOTE:
RACEWAYS SHALL BE CONTINUOUS FROM BELOW GRADE TO 30" AFF. WITHOUT FITTING OR COUPLING (REFER TO NEC 501.5(A)(4) EXP No. 1). "BAY" IS DEFINED AS NON CLASSIFIED LOCATION "WHERE MINOR REPAIRS ARE MADE AND WHERE CLASS 1 LIQUIDS ARE NOT TRANSFERRED". "BAY" IS SUPPLEMENTALLY A NON CLASSIFIED SPACE BY MEANS OF VENTILATION PER NEC 513(A)(5). ELECTRICAL INSTALLATION SHALL BE MADE TREATING "BAY" AS CLASS 1 DIVISION 2 LOCATION TO 18" AFF.

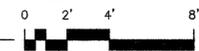


EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS HP.	BREAKER	STARTERS FURNISH/INSTALL	AUX. CONT.	LOCATION
F 1	FURNACE	A-15	120	1	1/5 HP	1P-15A	E E	5 TH	UTILITY
CU 1	CONDENSING UNIT	A-21	240	1	11.7A MCA	2P-15A	Ø Ø Ø		OUTSIDE
CEF 1	EXHAUST FAN	A-1	120	1	121 WATTS	1P-20A	Ø Ø Ø		RESTROOM
CEF 2	EXHAUST FAN	A-1	120	1	81 WATTS	1P-20A	Ø Ø Ø		UTILITY
UH 1	UNIT HEATER	A-11	120	1	12 AMPS	1P-15A	E E	5 TH	UTILITY
PVF 1	PROPELLER VENTILATION FAN	A-23	240	1	1 1/2 HP	2P-15A	E E Ø	2	BAY

E - ELECTRICAL CONTRACTOR
M - MECHANICAL CONTRACTOR
Ø - SUPPLIED WITH EQUIPMENT

EQUIPMENT PLAN - MAIN FLOOR
SCALE 1/4" = 1'-0"
PLAN NORTH





COMcheck Software Version 3.4.0 Lighting Compliance Certificate

2006 IECC

Report Date: 03/24/09

Data filename: C:\DWR Vernal Shop.cck

Section 1: Project Information

Project Title: DWR NEW SHOP AND OFFICE REMODEL

Construction Site: Shop Building
Vernal, UT

Owner/Agent:

Designer/Contractor:
Ray Kolkman
Thomas and Kolkman Engineering Co.,
Inc.
64 West 1700 South
Salt Lake City, UT 84115
(801) 484-8161

Section 2: General Information

Building Use Description by: Activity Type
Project Type: New Construction

Activity Type(s): Workshop
Floor Area: 2430

Section 3: Requirements Checklist

Interior Lighting:

- 1. Total actual watts must be less than or equal to total allowed watts.
- | Allowed Watts | Actual Watts | Complies |
|---------------|--------------|----------|
| 3402 | 2242 | YES |

Exterior Lighting:

- 2. Efficacy greater than 45 lumens/W.
Exemptions:
Specialized lighting highlighting features of historic buildings; signage; safety or security lighting; low-voltage landscape lighting.
- 3. Comply with Sections 505.2.4 and 505.6 of IECC 2006 and attach documentation.

Controls, Switching, and Wiring:

- 4. Independent controls for each space (switch/occupancy sensor).
Exemptions:
Areas designated as security or emergency areas that must be continuously illuminated.
Lighting in stairways or corridors that are elements of the means of egress.
- 5. Master switch at entry to hotel/motel guest room.
- 6. Individual dwelling units separately metered.
- 7. Each space provided with a manual control to provide uniform light reduction by at least 50%.
Exemptions:
Only one luminaire in space;
An occupant-sensing device controls the area;
The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Page 1 of 3

- 8. Automatic lighting shutoff control in buildings larger than 5,000 sq. ft.
Exemptions:
Sleeping units, patient care areas, and spaces where automatic shutoff would endanger safety or security.
- 9. Photoelectric/astromerical time switch on exterior lights.
Exemptions:
Lighting intended for 24 hour use.
- 10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
Exemptions:
Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2006 IECC requirements in COMcheck Version 3.4.0 and to comply with the mandatory requirements in the Requirements Checklist.

Ray Kolkman - Vernal, UT
Ray Kolkman - Signature
4/6/09 - Date

Page 2 of 3



COMcheck Software Version 3.4.0 Lighting Application Worksheet

2006 IECC

Report Date:

Data filename: C:\DWR Vernal Shop.cck

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Workshop	2430	1.4	3402
Total Allowed Watts =			3402

Section 2: Actual Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt	E (C x D)
Workshop (2430 sq. ft.)				
Linear Fluorescent 1: F-1: Tandem 3 Lamp Industrial / 48" T8 32W / Electronic	6	9	168	1494
Linear Fluorescent 2: F-2: 4' 2 Lamp Wraparound / 48" T8 32W / Electronic	2	5	56	280
Linear Fluorescent 3: F-3: 4' 4 Lamp Wraparound / 48" T8 32W / Electronic	4	2	112	224
Linear Fluorescent 4: F-4: 4' 2 Lamp Striplight / 48" T8 32W / Electronic	2	4	56	224
Compact Fluorescent 1: F-5: Downlight / Triple 4-pin 18W / Electronic	1	1	20	20
Total Actual Watts =				2242

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Actual Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 3402
Total Actual Watts = 2242
Project Compliance = 1160

Lighting PASSES through 100% compliance.

Page 3 of 3

State of Utah

Department of Administrative Services



Division of Facilities
Construction & Management
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architecture planning design

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PROJECT TITLE:

DIVISION OF WILDLIFE
RESOURCES

NEW SHOP

VERNAL, UTAH

MARK DATE DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 27th March, 2009

DFCM PROJECT NO: 07319520

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: RGK

CHKD BY: WBG

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SHEET TITLE

RISER DIAGRAMS
SCHEDULES

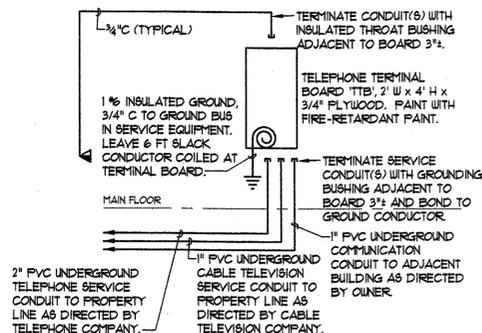
SHEET NUMBER

E-601

SHEET OF

TELEPHONE RISER NOTES

- BURY ALL UNDERGROUND CONDUITS OUTSIDE OF BUILDING MINIMUM 24 INCHES BELOW FINISH GRADE.
- ALL CONDUIT THROUGH GRADE AND ELBOWS USED WITH PVC CONDUIT SHALL BE CORROSION PROTECTED GALVANIZED RIGID STEEL CONDUIT.
- COORDINATE INSTALLATION OF TELEPHONE SERVICE WITH LOCAL TELEPHONE COMPANY PRIOR TO BEGINNING WORK.
- COORDINATE TELEPHONE/DATA SYSTEM REQUIREMENTS INCLUDING OUTLET LOCATIONS, OUTLET QUANTITIES, JACK TYPE, CABLING, ETC. WITH OWNER PRIOR TO BEGINNING WORK.

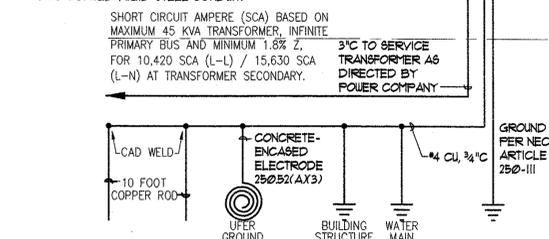


COMMUNICATION RISER DIAGRAM

01 E-601 SCHEMATIC

POWER RISER NOTES

- COORDINATE INSTALLATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY PRIOR TO BEGINNING WORK.
- ALL NEW CONDUCTORS SHOWN SHALL BE COPPER.
- BURY ALL UNDERGROUND CONDUITS MINIMUM 24 INCHES BELOW FINISH GRADE WITH YELLOW MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 16 INCHES ABOVE THE CONDUIT.
- ALL CONDUIT THROUGH GRADE AND ELBOWS USED WITH PVC CONDUIT SHALL BE FACTORY PVC COATED RIGID STEEL CONDUIT.



POWER RISER DIAGRAM

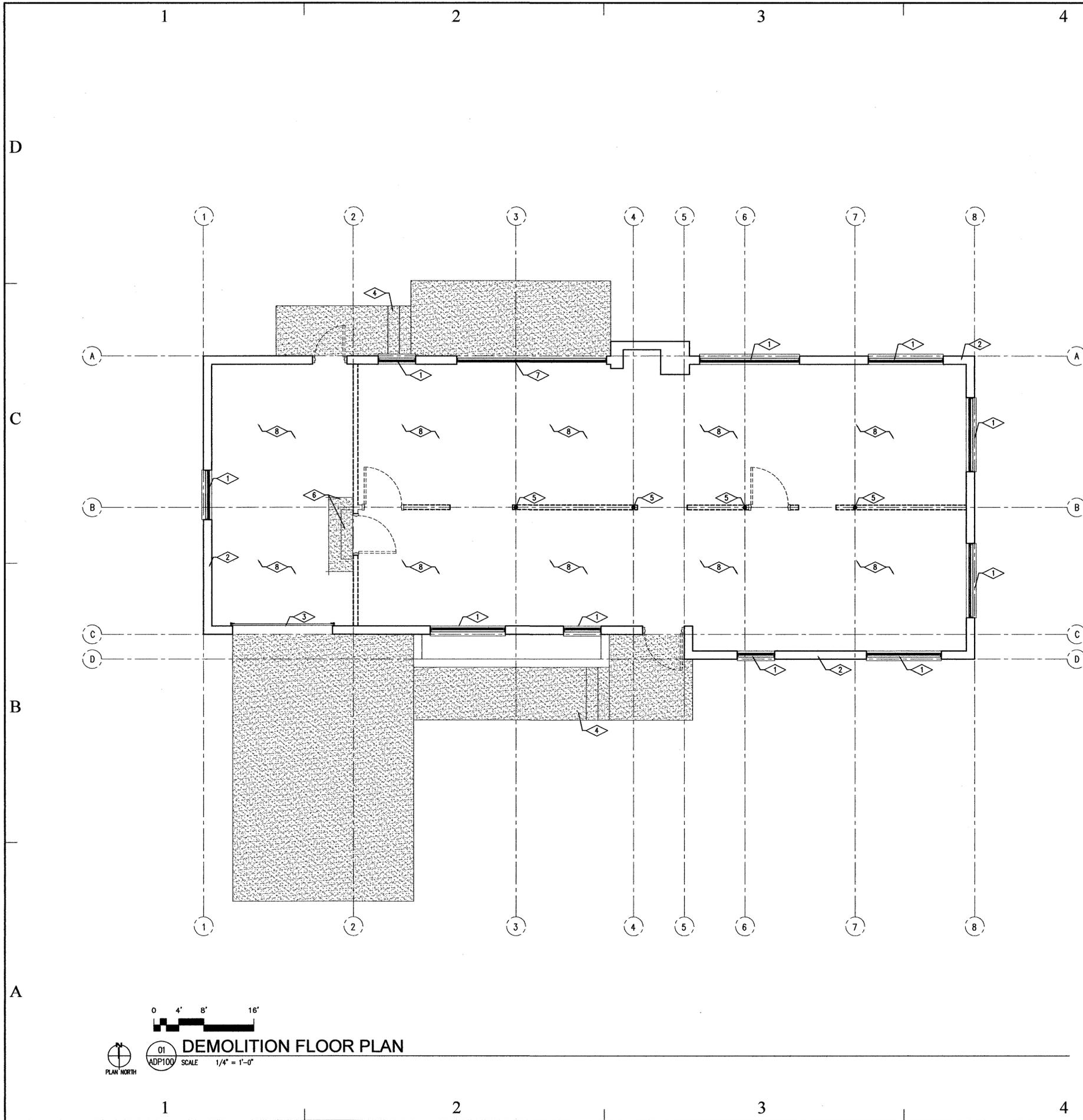
02 E-601 SCHEMATIC

NO	POLES	BREAKER	AMPS	LTS	NO.	NO.	LOAD -VA	REMARKS
1	1	20	12		1,064		720	LTS - OFFICE, RESTROOM & STORAGE
2	1	11			1,640		1,640	LTS - BAY
3	1	1			950		950	LTS - TELEPHONE TERMINAL BOARD
4	1	5			540		540	LTS - EXTERIOR
5	1	3			540		540	LTS - UTILITY, HALL & EXTERIOR
6	1							SPARE
7	1							SPARE
8	1	8			1,440		1,440	LTS - BAY (NE) & RESTROOM
9	1	1			500		500	OUT - EWC
10	1	6			1,080		1,080	LTS - BAY (NW) & STORAGE
11	1							SPARE
12	1							SPARE
13	1	8			1,440		1,440	LTS - BAY (SE)
14	1							SPARE
15	1	6			1,080		1,080	LTS - BAY (SW)
16	2	15			588		588	FORNAGE
17	1	15			144		144	UNIT HEATER
18	1				960		960	DOOR OPERATOR - EAST
19	1	15			500		500	CO DETECTOR AND CONTROL DAMPER
20	2	15			960		960	DOOR OPERATOR - WEST
21	1							SPACE
22	1				960		960	SPACE
23	2	15			624		624	PROPELLER VENTILATION FAN
24	2	60			6,000		6,000	OUT - WELDER
25	1				624		624	SPACE
26	1				6,000		6,000	SPACE
27	2	15			1,404		1,404	CONDENSING UNIT
28	2	60						OUT - WELDER
29	1				1,404		1,404	SPACE
30	1							SPACE
31	1							SPACE
32	1							SPACE
33	1							SPACE
34	1							SPACE
35	1							SPACE
36	1							SPACE
37	1							SPACE
38	1							SPACE
39	1							SPACE
40	1							SPACE
41	1							SPACE
42	1							SPACE

TYPE	VA	AMPS
TOTAL CONNECTED LOAD	15,966	15.736
CONNECTED	31,702	31.472
MULTIPLIER		
TOTAL		
L&C=LIGHTING & CONTINUOUS	3,380	X 1.25 = 4,225
LW = LARGEST MOTOR	2,808	X 1.25 = 3,510
MH = MOTORS & NON-CONT.	19,034	X 1 = 19,034
R = RECEPTACLE	6,480	1/2 @ 10KVA = 6,480
K = KITCHEN EQUIPMENT	0	@ 100% = 0
TOTAL CALCULATED LOAD	33,249	VA 139 AMPS

SYMBOL LIST

SYMBOL	DESCRIPTION
○	FLUORESCENT FIXTURE
○	WALL MOUNTED FIXTURE
○	CEILING MOUNTED FIXTURE
⊗	DOWNLIGHT (RECESSED) FIXTURE
⊕	COMBINATION EXIT LIGHT / EMERGENCY FIXTURE
⊖	REMOTE EMERGENCY HEAD
⊙	SINGLE POLE SWITCH
⊕	OCCUPANCY SENSOR SWITCH
⊖	OCCUPANCY SENSOR SWITCH - DUAL CIRCUIT
⊕	OCCUPANCY SENSOR W/ SWITCHPACK
⊙	JUNCTION BOX
⊕	DUPLEX RECEPTACLE
⊕	DUPLEX RECEPTACLE W/ GROUND FAULT PROTECTION
⊕	RECEPTACLE FOR ELECTRIC WATER COOLER
⊕	SPECIAL PURPOSE OUTLET W/ NEMA DESIGNATION
⊕	POWER PANELBOARD, 120/240 VOLT, 1 PHASE
⊕	2 PHASE, 3 WIRE HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
⊕	BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
⊕	TELE/DATA OUTLET
⊕	MANUAL MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION
⊕	COMBINATION DISCONNECT / STARTER
⊕	MOTOR
⊕	FIXTURE SCHEDULE SYMBOL
⊕	KEYED NOTE SYMBOL
⊕	EQUIPMENT SCHEDULE SYMBOL
⊕	INDICATES DEVICE/EQUIPMENT IN MINIMUM NEMA 3R ENCLOSURE
⊕	INDICATES DEVICE INSTALLED "UNDER COUNTER"
⊕	ELEVATION INDICATED IS "TO BOTTOM OF FIXTURE"



5
REFERENCE NOTES

- 1 EXISTING WINDOWS TO BE REMOVED
- 2 EXISTING MASONRY WALLS TO REMAIN UNDISTURBED
- 3 EXISTING GARAGE DOOR AND TRACK SYSTEM TO BE REMOVED
- 4 EXISTING CONCRETE STAIR TO BE REMOVED
- 5 EXISTING STEEL COLUMN TO REMAIN UNDISTURBED
- 6 GENERAL CONTRACTOR SHALL SAW CUT EXISTING CONCRETE FLOOR AS NECESSARY TO REMOVE EXISTING CONCRETE STEP
- 7 EXISTING SLIDING GLASS DOOR AND THRESHOLD TO BE REMOVED
- 8 EXISTING GYPSUM BOARD CEILING AND ATTIC INSULATION TO BE REMOVED

LEGEND

- HATCH PATTERN INDICATES EXISTING 5" THICK, REINFORCED CONCRETE SLAB TO BE REMOVED
- EXISTING GYPSUM BOARD AND WOOD FRAMED WALLS TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING HOLES IN WOOD SUB-FLOORING SYSTEM

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CONSULTANT: xyz engineering

PROJECT TITLE:

DIVISION OF WILDLIFE RESOURCES

NEW SHOP BUILDING

VERNAL, UTAH

MARK	DATE	DESCRIPTION

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ISSUE DATE: 27th March, 2009

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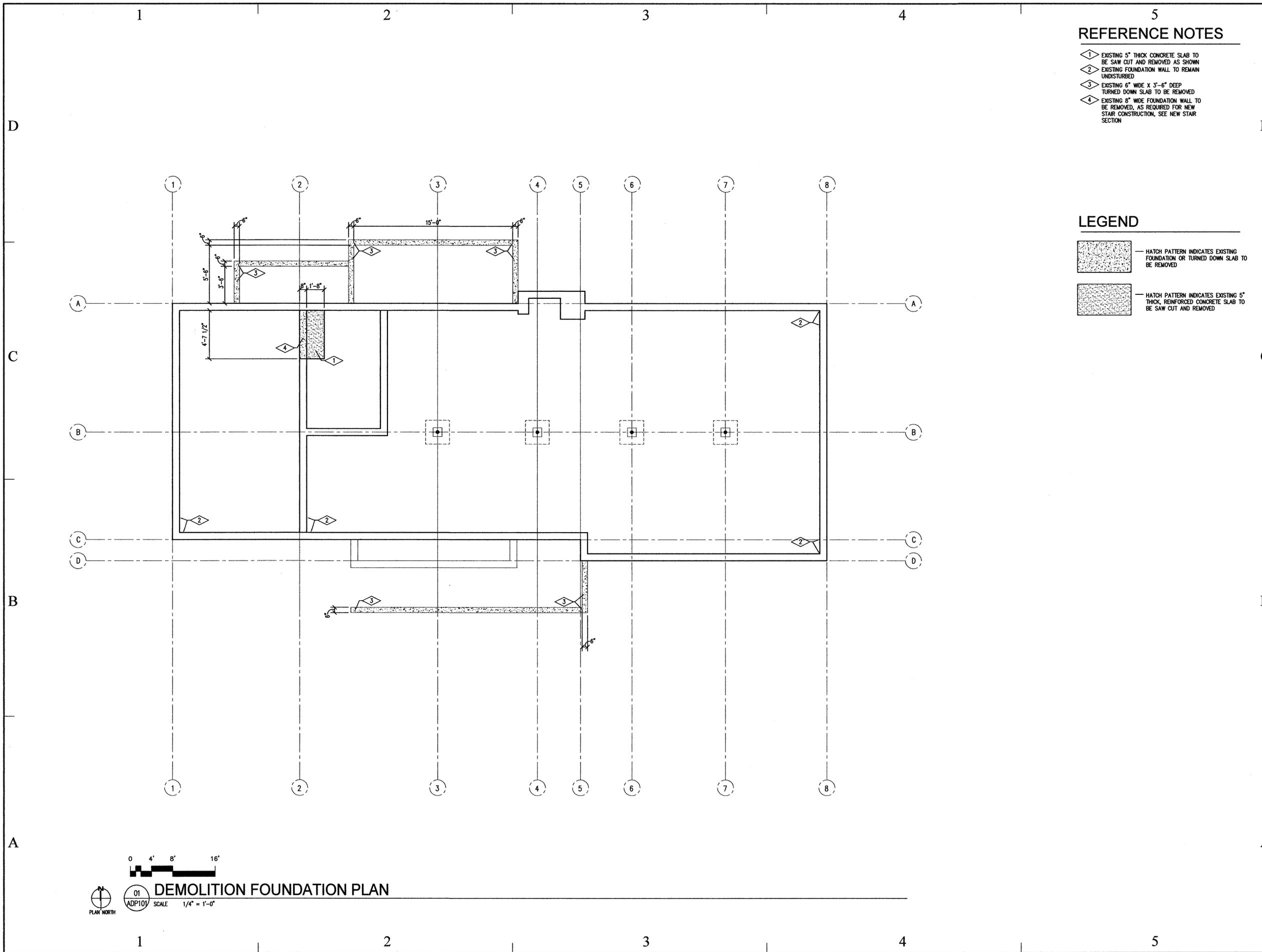
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SHEET TITLE

DEMOLITION FLOOR PLAN

SHEET NUMBER

A-DP100



5
REFERENCE NOTES

- ① EXISTING 5" THICK CONCRETE SLAB TO BE SAW CUT AND REMOVED AS SHOWN
- ② EXISTING FOUNDATION WALL TO REMAIN UNDISTURBED
- ③ EXISTING 6" WIDE X 3"-6" DEEP TURNED DOWN SLAB TO BE REMOVED
- ④ EXISTING 8" WIDE FOUNDATION WALL TO BE REMOVED, AS REQUIRED FOR NEW STAIR CONSTRUCTION, SEE NEW STAIR SECTION

LEGEND

- HATCH PATTERN INDICATES EXISTING FOUNDATION OR TURNED DOWN SLAB TO BE REMOVED
- HATCH PATTERN INDICATES EXISTING 5" THICK, REINFORCED CONCRETE SLAB TO BE SAW CUT AND REMOVED

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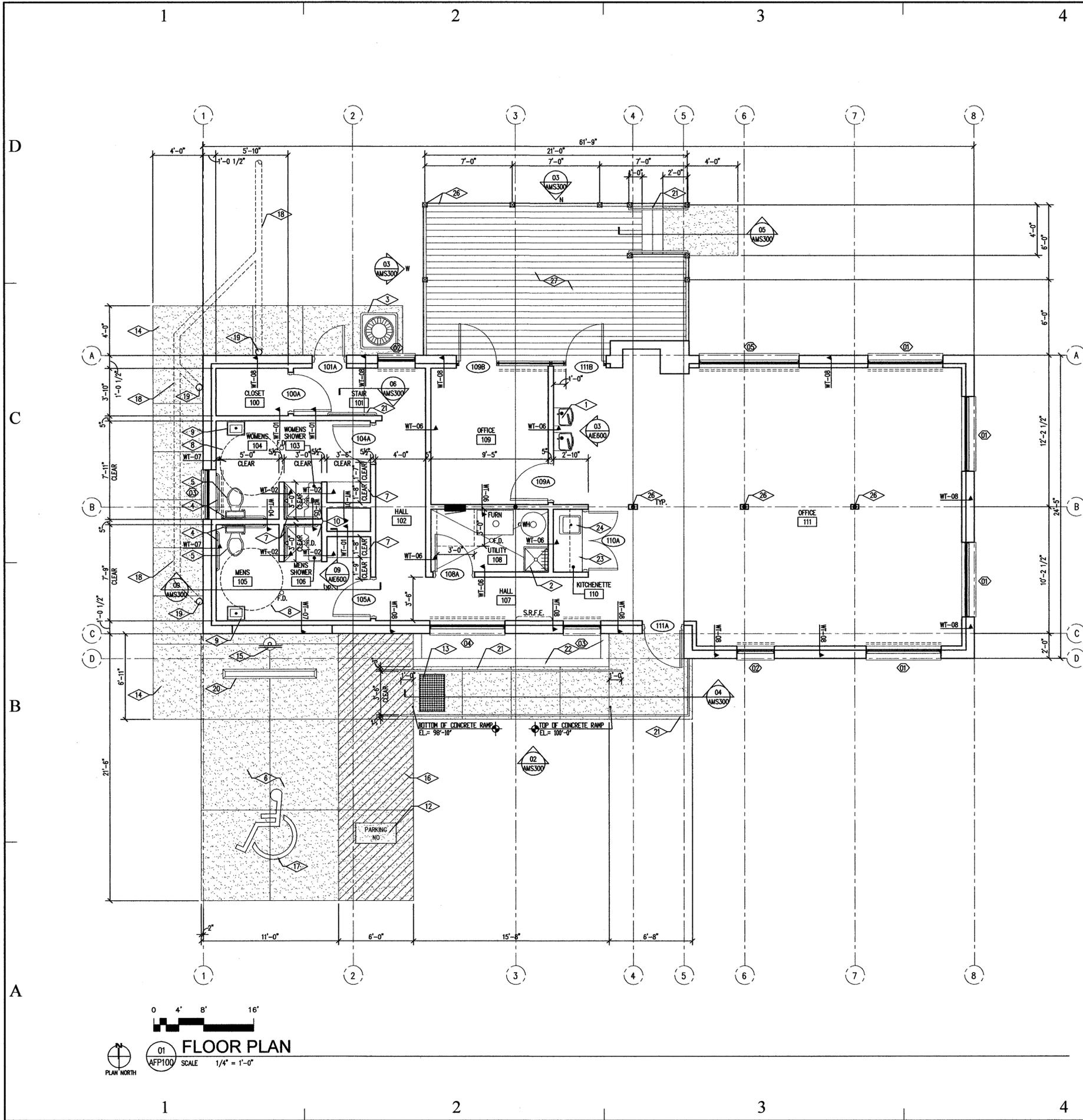
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SHEET TITLE

DEMOLITION FOUNDATION PLAN

SHEET NUMBER

A-**DP101**



REFERENCE NOTES

- 1 HIGH/LOW ADA DRINKING FOUNTAIN, SEE PLUMBING DRAWINGS
- 2 MOP SINK WITH SHELF, SEE SPECIFICATION
- 3 A/C CONDENSING UNIT WITH PRECAST CONCRETE BASE
- 4 ADA GRAB BARS, SEE INTERIOR ELEVATIONS
- 5 ADA WATER CLOSET, SEE PLUMBING DRAWINGS
- 6 ADA VAN PARKING STALL
- 7 ADA DRESSING BENCH, SEE SECTION AND SPECIFICATION
- 8 5'-0" DIA ADA TURNING CIRCLE
- 9 LAVATORY, SEE PLUMBING DRAWINGS
- 10 ADA SHOWER BENCH, SEE SPECIFICATION
- 11 ADA SHOWER GRAB BAR, SEE SPECIFICATION
- 12 PAINTED WITH TRAFFIC WHITE PAINT, "NO PARKING AREA"
- 13 24"x36" CAST-IN PLACE TRUNCATED DOME DETECTABLE WARNING SYSTEM. USE "ADA WALKWAY INC". CAST IN PLACE TRUNCATED DOME WARNING SYSTEM OR EQUAL. CONTACT NUMBER 1-866-838-5638
- 14 NEW 5" THICK CONCRETE SIDEWALK OVER 4" COMPACTED GRAVEL BASE.
- 15 VAN ACCESSIBLE ADA PARKING SIGN, SEE DETAIL 04/ASP100. SLOPE NOT TO EXCEED 1:48 AS PER ANSI CHAPTER 5
- 16 NEW PAINTED ADA ACCESS AISLE WITH "NO PARKING" PAINTING INDICATED.
- 17 GENERAL CONTRACTOR TO PAINT AD INTERNATIONAL SYMBOL FOR ACCESSIBLE PARKING STALL
- 18 6" BURIED PVC PIPE TO RUN UNDER CONCRETE SLAB. GENERAL CONTRACTOR SHALL EXTEND BURIED PIPE 30'-0" FROM EDGE OF CONCRETE SIDE WALK
- 19 PROVIDE 6" DIA PVC ELBOW EXTENDED 6" PVC PIPING TO 8" ABOVE TOP OF CONCRETE SLAB
- 20 PRE-CAST CONCRETE WHEELSTOP
- 21 NEW 1 1/2" POWDER COATED PIPE RAILING, SEE SECTIONS
- 22 EXISTING MASONRY PLANTER. GENERAL CONTRACTOR SHALL RESET EXISTING MASONRY CAP
- 23 NEW PLASTIC LAMINATE CABINETS AND COUNTER TOPS
- 24 NEW SINK, SEE PLUMBING DRAWINGS
- 25 COMPOSITE EXTERIOR DECK, SEE EXTERIOR DECK NOTES BELOW.
- 26 GENERAL CONTRACTOR SHALL PROVIDE 2X4 FRAMING AND 3/4" TYPE "X" GYPSUM BOARD FINISH AT EXISTING COLUMNS
- 27 NEW EXTERIOR DECK WITH GUARD RAILING, SEE EXTERIOR DECK NOTE BELOW

GENERAL NOTES

1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.
2. MOST DIMENSION ARE FROM FACE OF SHEATHING OR GYPSUM BOARD.

FLOOR PLAN LEGEND

- RM. NAME — ROOM TAG
- 100 — ROOM TAG
- 102 — WINDOW TAG
- 100A — DOOR TAG
- F.D. — FLOOR DRAIN
- WT-01 — WALL TYPE, SEE WALL TYPES SHEET ASC300
- WH — WATER HEATER, SEE PLUMBING DRAWINGS
- FURN — FURNACE, SEE MECHANICAL DRAWINGS
- DASH LINES AT WINDOW LOCATIONS INDICATE NEW WINDOW COVERINGS AS PER SPECIFICATION
- HATCH PATTERN INDICATES NEW 5" THICK CONCRETE SLAB OVER 4" COMPACTED GRAVEL BASE
- S.R.F.E. — SEMI RECESSED FOR EXTINGUISHER CABINET AND FIRE EXTINGUISHER

EXTERIOR DECK NOTES

1. USE TREX DECKING PRODUCTS OR EQUAL.
2. DECKING TO BE TREX BRASILIA DECKING 5/8"x6".
3. USE TREX DESIGNER SERIES RAILING SYSTEM.
 - a. TOP RAILING
 - b. BOTTOM RAILING
 - c. BALUSTERS
 - d. POST SKIRTS
 - e. RAIL POST SLEEVES
 - f. PYRAMID POST CAPS
4. USE TREX TRIM.
 - a. CORNER PROFILE
 - b. TRIM BOARD 3/4"x12"



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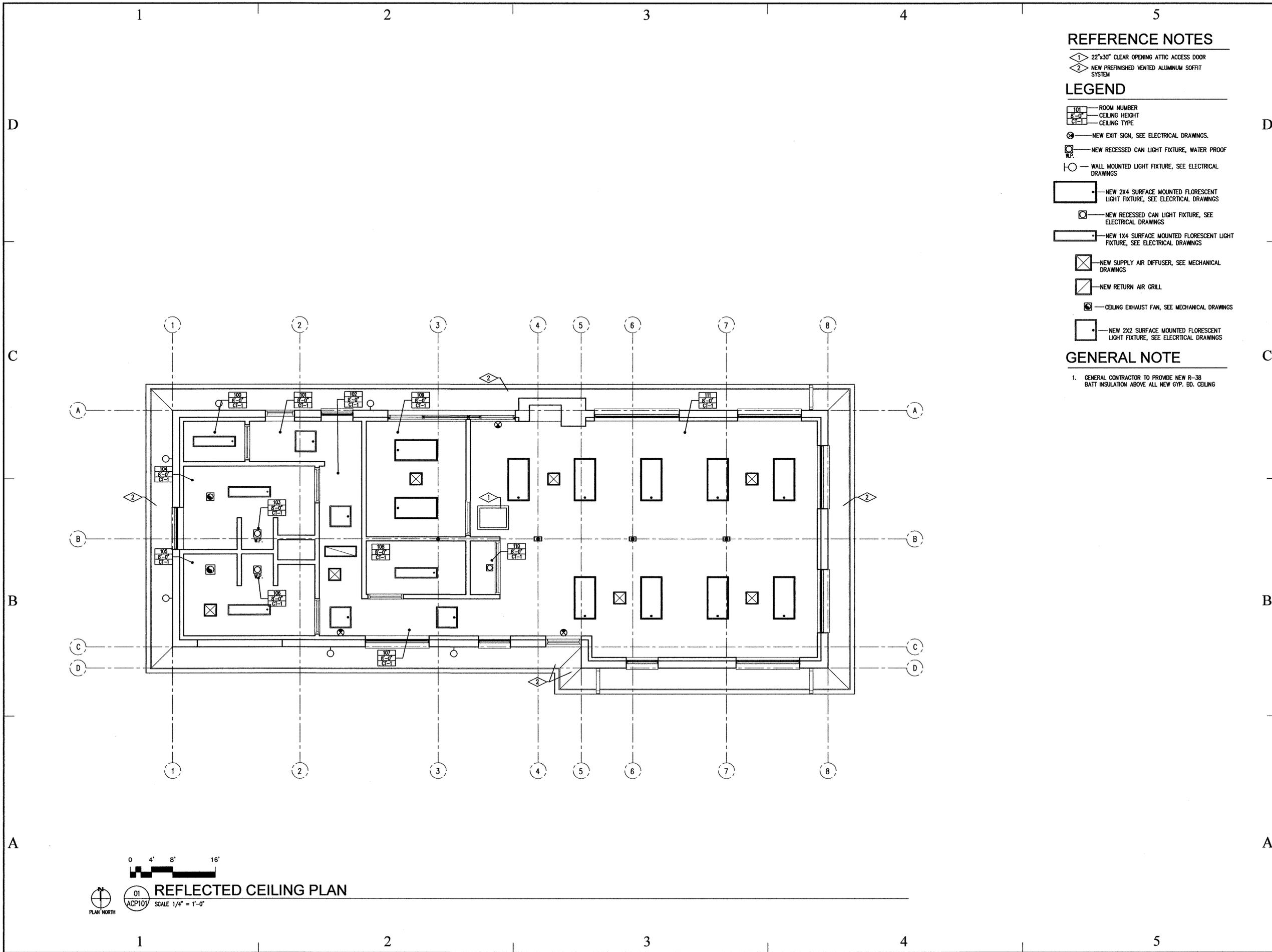
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FLOOR PLAN

SHEET NUMBER

A-FP100



REFERENCE NOTES

- ① 22"x30" CLEAR OPENING ATTIC ACCESS DOOR
- ② NEW PREFINISHED VENTED ALUMINUM SOFFIT SYSTEM

LEGEND

- | | |
|-------|----------------|
| 101 | ROOM NUMBER |
| 8'-0" | CEILING HEIGHT |
| G1-1 | CEILING TYPE |
- ⊙ NEW EXIT SIGN, SEE ELECTRICAL DRAWINGS.
- ⊙ WP. NEW RECESSED CAN LIGHT FIXTURE, WATER PROOF DRAWINGS
- WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- ▭ NEW 2X4 SURFACE MOUNTED FLORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- ⊙ NEW RECESSED CAN LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- ▭ NEW 1X4 SURFACE MOUNTED FLORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- ⊗ NEW SUPPLY AIR DIFFUSER, SEE MECHANICAL DRAWINGS
- ⊘ NEW RETURN AIR GRILL
- ⊙ CEILING EXHAUST FAN, SEE MECHANICAL DRAWINGS
- ▭ NEW 2X2 SURFACE MOUNTED FLORESCENT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

GENERAL NOTE

1. GENERAL CONTRACTOR TO PROVIDE NEW R-38 BATT INSULATION ABOVE ALL NEW GYP. BD. CEILING

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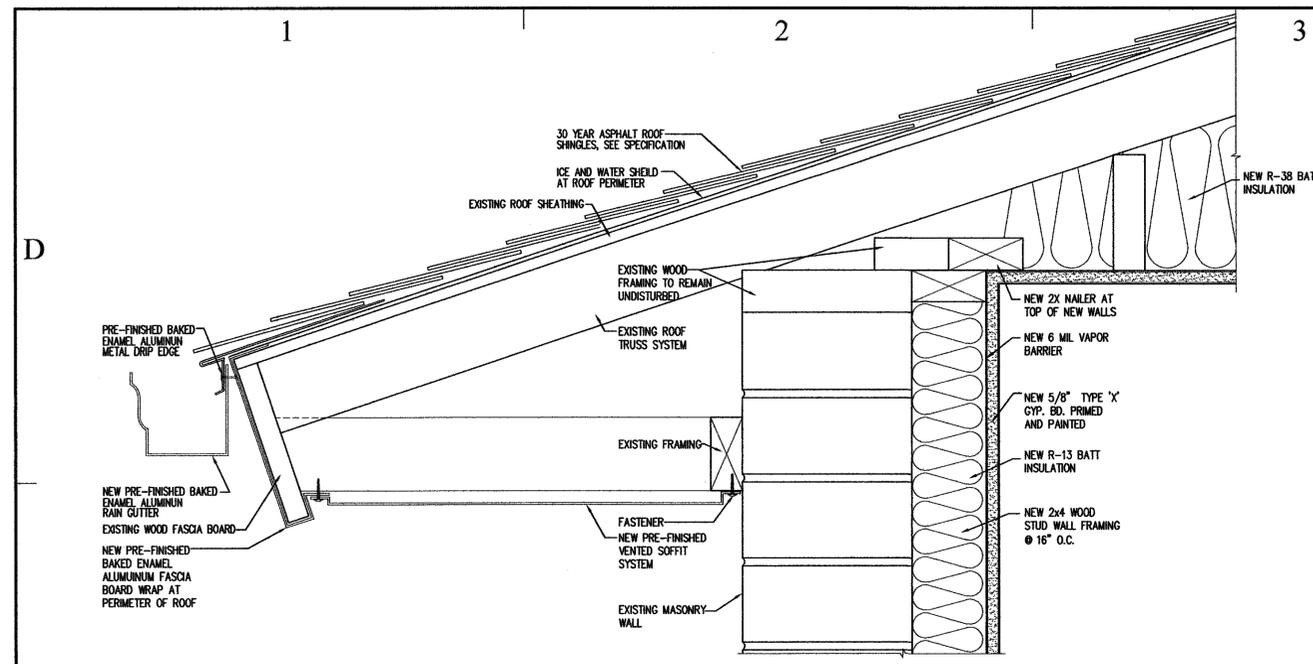
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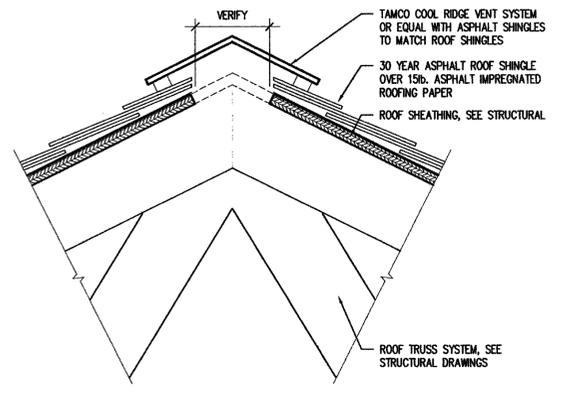
REFLECTED CEILING PLAN

SHEET NUMBER

A-CP101



03 ROOF SOFFIT, FASCIA AND TOP OF WALL DETAIL
 SCALE 3" = 1'-0"



02 RIDGE DETAIL
 SCALE 3" = 1'-0"

5 REFERENCE NOTES

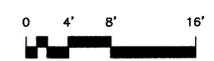
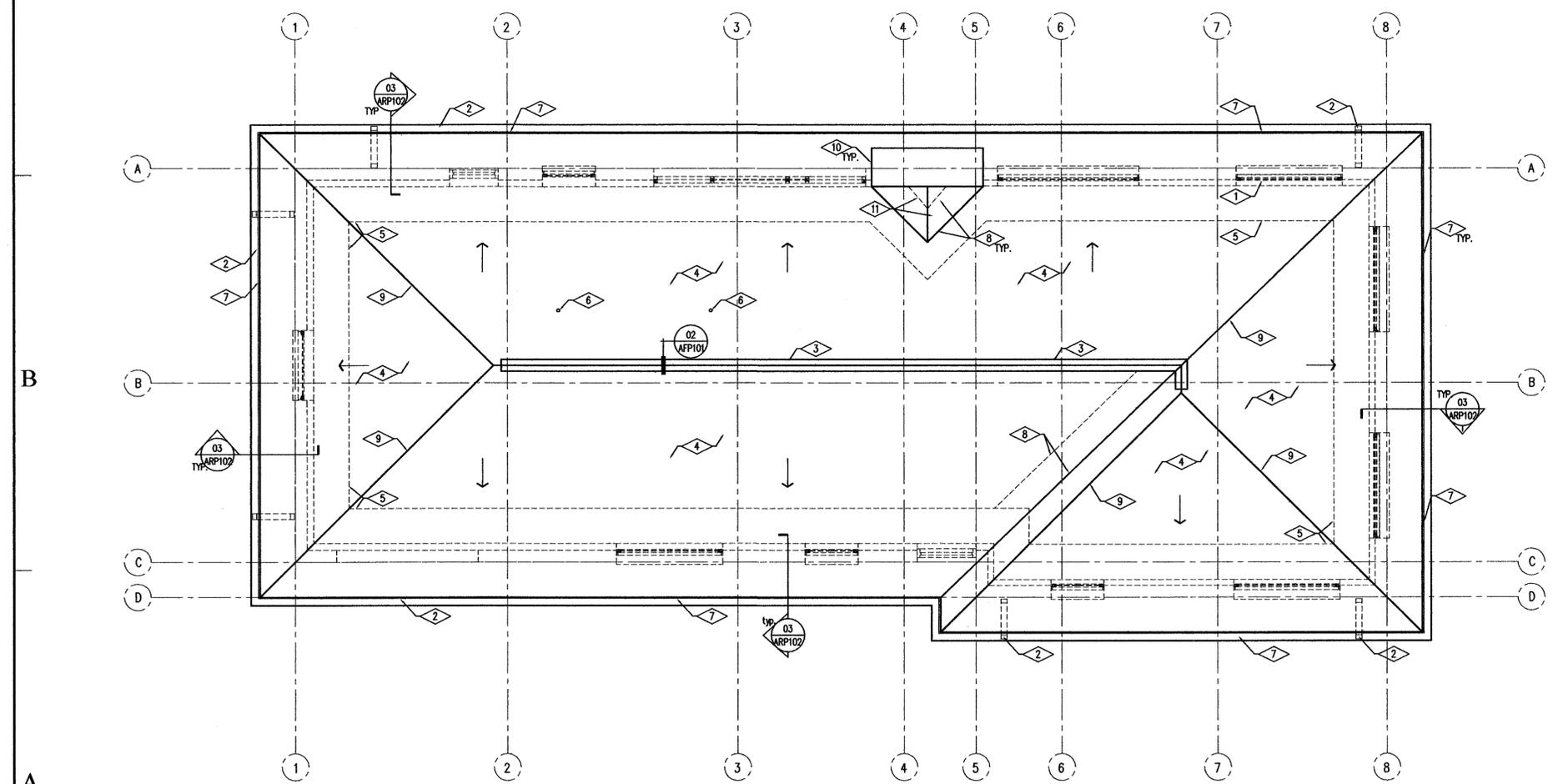
- 1 DASHED LINE INDICATES WALL BELOW
- 2 NEW BAKED ENAMEL SEAMLESS ALUMINUM RAINGUTTERS WITH DOWN SPOUT LOCATIONS AS SHOWN. GENERAL CONTRACTOR TO EXTEND BASE OF DOWN SPOUT 1'-8" FROM FACE OF BUILDING. GENERAL CONTRACTOR SHALL PROVIDE PRECAST CONCRETE SPLASH AT DOWN SPOUT LOCATIONS
- 3 NEW ASPHALT SHINGLE RIDGE VENTS. NEW RIDGE VENT SHALL PROVIDE REQUIRED ATTIC VENTILATION AS PER I.B.C. 1203.2. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/60 OF THE AREA OF THE SPACE VENTILATED, WITH 50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY RIDGE VENT. GENERAL CONTRACTOR TO VERIFY
- 4 REQUIRED AREA 1438 SQUARE FEET NET FREE AREA $V_{net} = 1438 - 9.58$ SQUARE INCHES MINIMUM OF RIDGE VENT SPACE REQUIRED
- 5 NEW 30 YEAR ASPHALT SHINGLES OVER 15 lb. ROOFING FELT
- 6 DASHED LINE INDICATES NEW ICE AND WATER SHIELD. ICE AND WATER SHIELD SHALL CONFORM TO ASTM D226 TYPE 1 AND TO EXTEND A MINIMUM OF 2'-0" BEYOND INSIDE WALL LINE
- 7 ALL EXISTING PIPE VENTS TO BE FLASHED WITH HYLAR FINISHED 26 GA. GALVANIZED STEEL WITH 18" BASE AND RAIN GUTTER SLEEVE.
- 8 NEW PREFINISHED METAL DRIP EDGE AT PERIMETER OF ROOF.
- 9 GENERAL CONTRACTOR TO PROVIDE 3 ROWS OF ICE AND WATER SHIELD AT ROOF VALLEY LOCATIONS
- 10 RIDGE LINE, PROVIDE ASPHALT SHINGLE RIDGE CAP
- 11 PROVIDE NEW 24 G.I. FLASHING AND COUNTER FLASHING AT EXISTING CHIMNEY
- 12 EXISTING SADDLE

DEMO ROOF PLAN GENERAL NOTES

- 1. REMOVE ALL EXISTING ROOF SHINGLES, DRIP EDGES AND ROOFING FELTS ECT. DOWN TO EXISTING ROOF SHEATHING PRIOR TO NEW ROOF SYSTEM INSTALLATION.
- 2. REMOVE EXISTING WOOD SOFFIT SYSTEM AND EXISTING RAIN GUTTERS.

ROOF PLAN LEDGEND

← ARROW INDICATES DIRECTION OF EXISTING SLOPE



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

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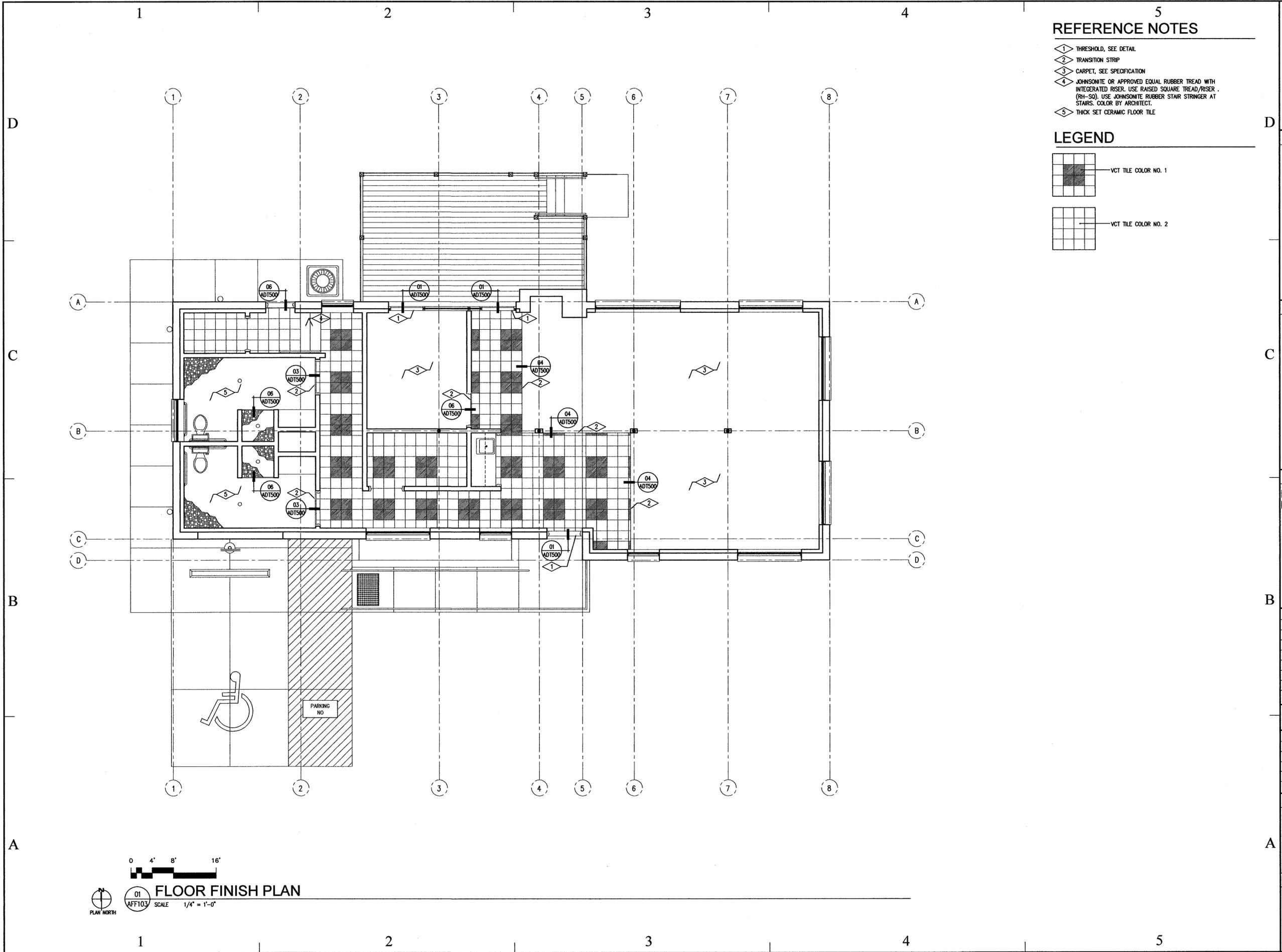
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ROOF PLAN

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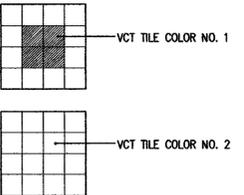
A-RP102



5
REFERENCE NOTES

- 1 THRESHOLD, SEE DETAIL
- 2 TRANSITION STRIP
- 3 CARPET, SEE SPECIFICATION
- 4 JOHNSONITE OR APPROVED EQUAL RUBBER TREAD WITH INTEGRATED RISER. USE RAISED SQUARE TREAD/RISER (RH-SQ). USE JOHNSONITE RUBBER STAIR STRINGER AT STAIRS. COLOR BY ARCHITECT.
- 5 THICK SET CERAMIC FLOOR TILE

LEGEND



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FLOOR FINISH PLAN

SHEET NUMBER

A-FF103



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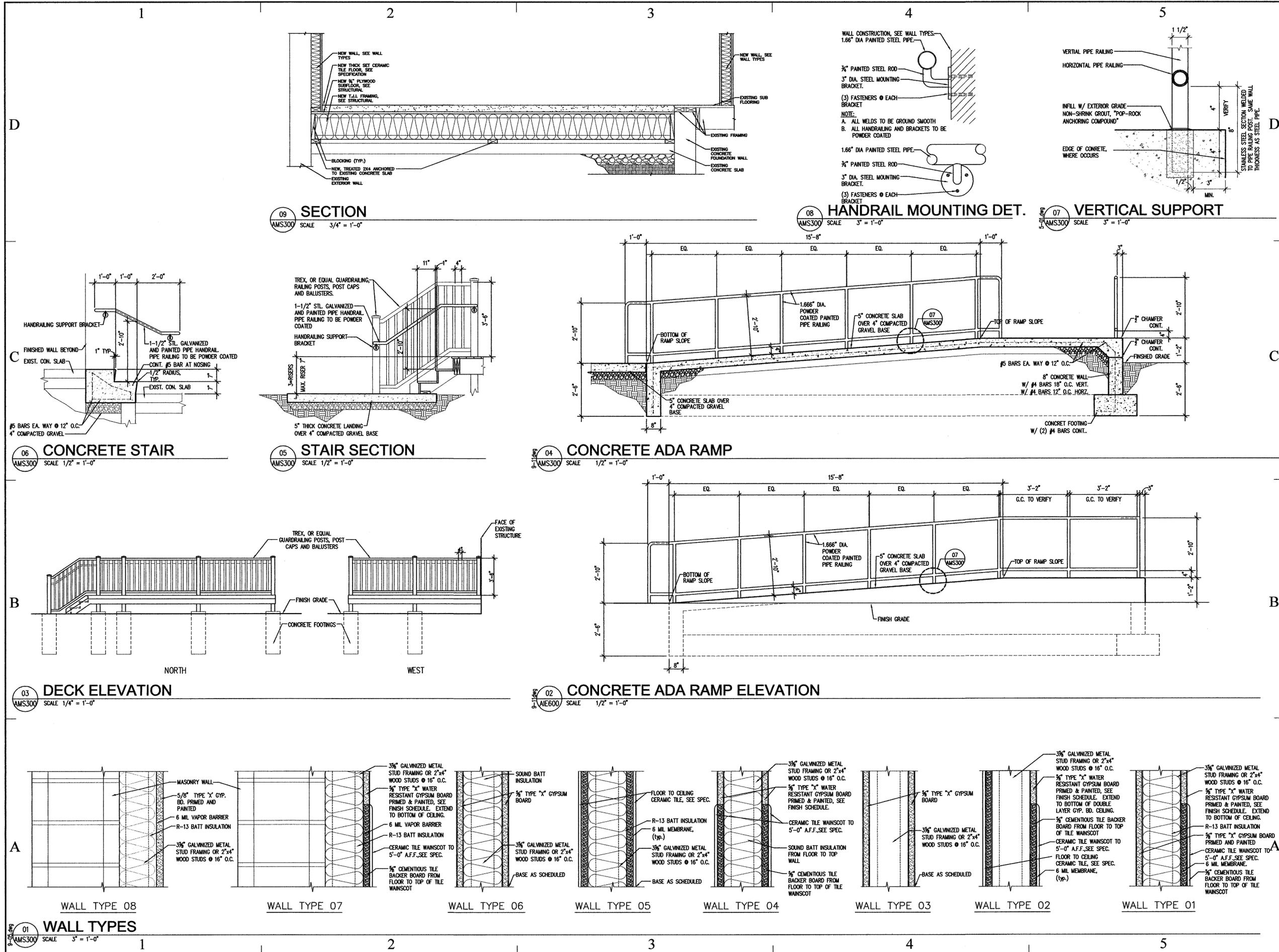
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SHEET TITLE

RAMP AND MISC.
SECTION, WALL
TYPES

SHEET NUMBER

A-MS300



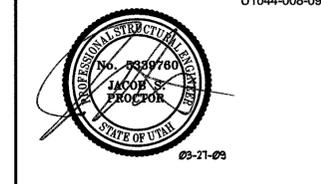
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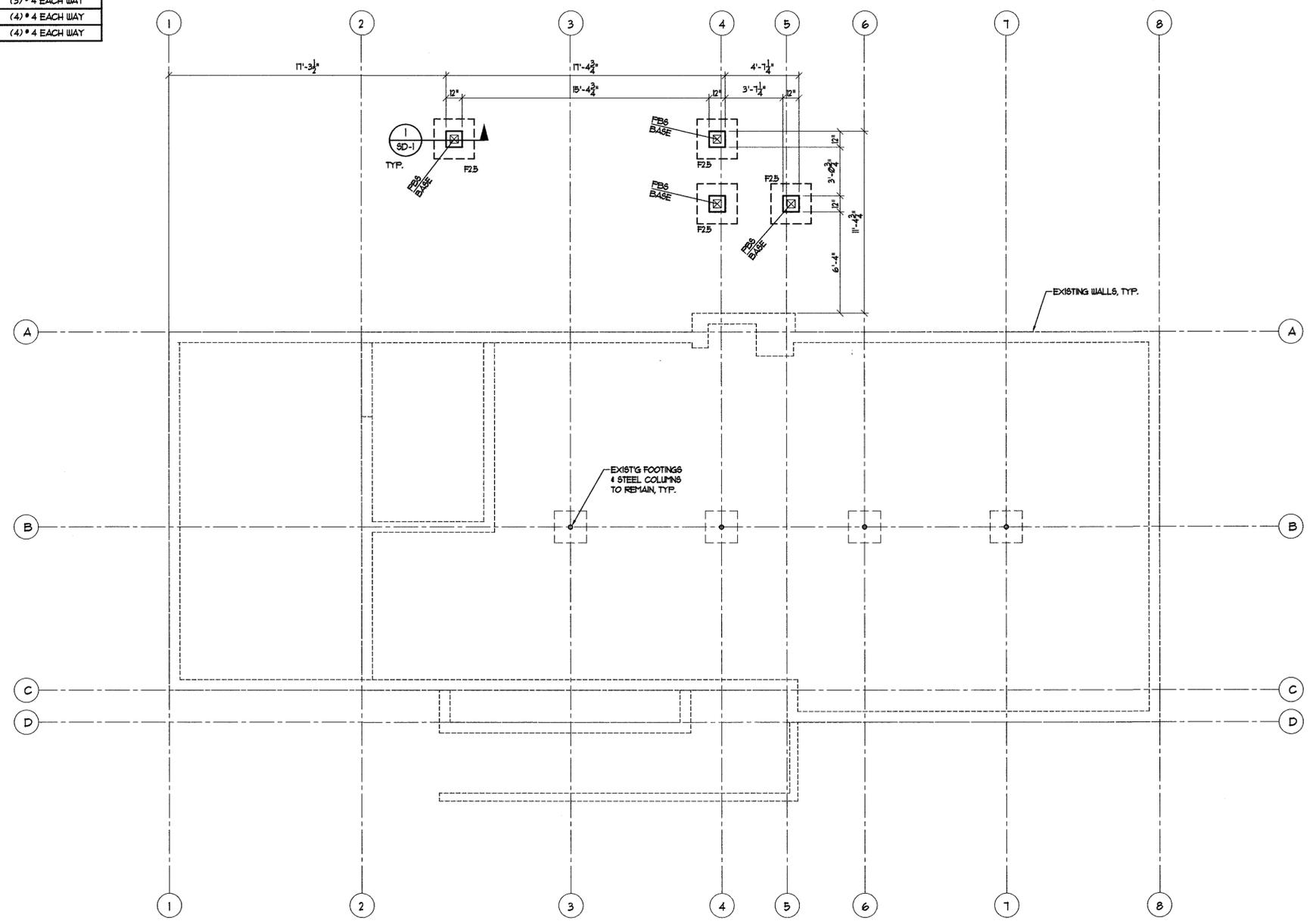
NEW FOUNDATION PLAN

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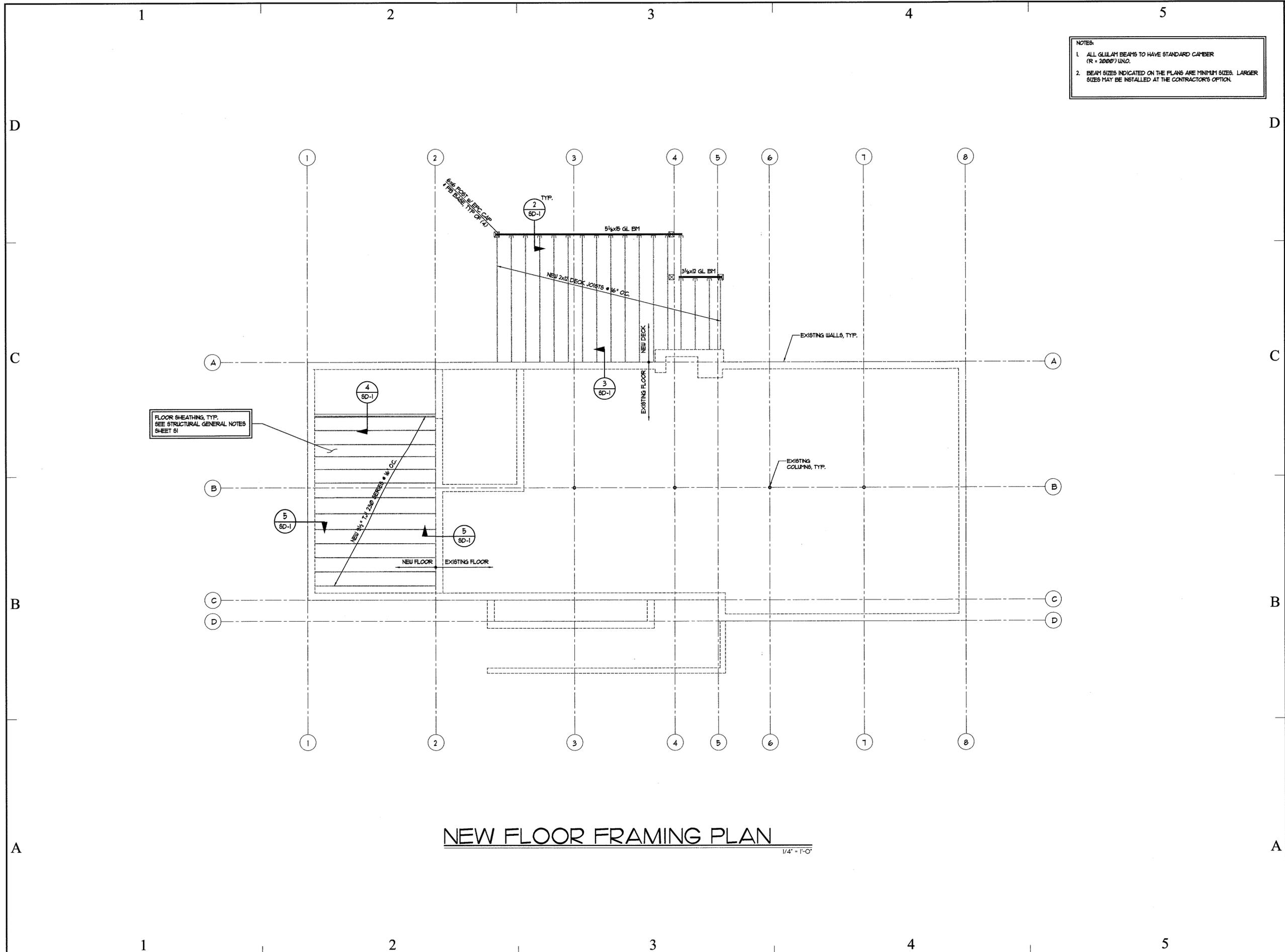
S2

FOUNDATION NOTES:
 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
 2. ISOLATED FOOTINGS TO BE CENTERED BELOW POSTS.

FOOTING SCHEDULE		
MARK	SIZE	REBAR
F2.0	2'-0" SQ. x 12" THICK	(3) # 4 EACH WAY
F2.5	2'-6" SQ. x 12" THICK	(4) # 4 EACH WAY
F3.0	3'-0" SQ. x 12" THICK	(4) # 4 EACH WAY



NEW FOUNDATION PLAN
 1/4" = 1'-0"



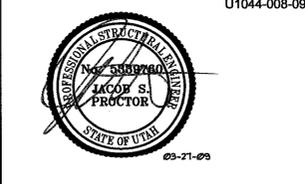
NEW FLOOR FRAMING PLAN
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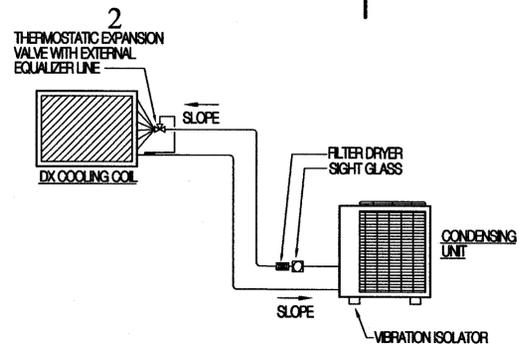
NEW FLOOR FRAMING PLAN

SHEET NUMBER

S3

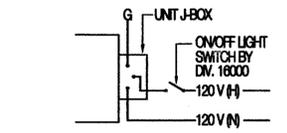
SYMBOL LEGEND

	SUPPLY AIR DIFFUSER
	RETURN OR EXHAUST GRILLE
	ACoustically LINED DUCTWORK (INSIDE CLEAR DIMENSION)
	SLOPE IN DUCT, SEE SECTIONS FOR SLOPE DIRECTION
	RECTANGULAR SUPPLY AIR DUCT CROSS SECTION
	ROUND SUPPLY AIR DUCT CROSS SECTION
	HAND DAMPER
	RISE OR DROP IN DUCT
	THERMOSTAT
	SUPPLY AIR DIRECTION
	RETURN AIR DIRECTION
	ABOVE FINISHED FLOOR
	HIGH EFFICIENCY TAKEOFF
	ACoustICAL LINING
	OUTSIDE AIR
	SUPPLY AIR
	RETURN AIR
	NECK

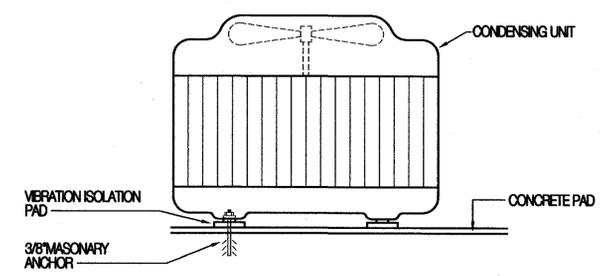


NOTE:
THE CONTRACTOR ALONG WITH HIS EQUIPMENT SUPPLIER SHALL SUBMIT A COMPLETE REFRIGERATION PIPING SHOP DRAWING SHOWING SIZES, TRAPS, PITCHES, VALVES, FILTER/DRYER, SEPARATORS, SIGHT GLASSES, ETC. THE DRAWING SHALL BE BASED ON ACTUAL BUILDING CONDITIONS. TRAP AS REQUIRED TO ACCOMMODATE SUCTION LINE RISER.

REFRIGERANT PIPING SCHEMATIC
M-SH000 SCALE: NONE



CEILING EXHAUST FAN CONTROL DIAGRAM



CONDENSING UNIT MOUNTING DETAIL
M-SH000 SCALE: NONE

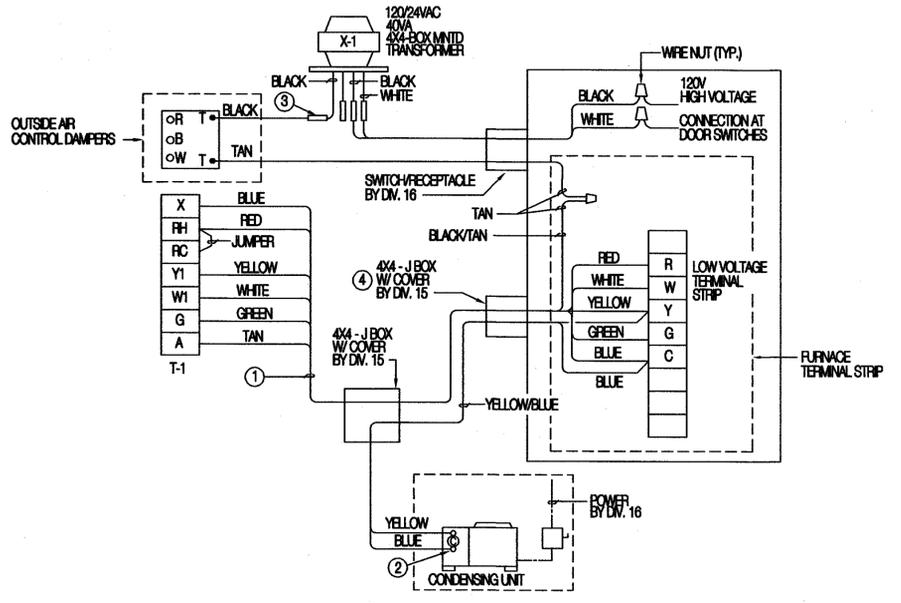


DIAGRAM NOTES

1. THERMOSTAT CABLE: 8 CONDUCTOR, 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE CONDUCTORS PARALLEL, ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
2. F CONDENSING UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN CONDENSING UNIT TO PROPERLY INTERFACE CONTROLS.
3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT.
4. ALL WIRING TO BE PLENUM RATED.

FURNACE CONTROL DIAGRAM

FURNACES (F)

SYMBOL	INPUT (BTUH)	MIN. RECD. OUTPUT (BTUH) ①	MIN. CFM ①	MIN. E.S.P. IN. WG.	FAN SPEED	ELECTRICAL REQUIREMENTS					CARRIER MODEL	REMARKS	
						VOLTS	PH.	HZ.	HP.	MCA			MOCP
F-1	80,000	75,000	1,000	0.5"	MED	120	1	60	1/3	10.4	15	58MKB080-12	

① CAPACITIES AT JOB SITE ELEVATION.

DX COOLING COILS (CC)

SYMBOL	TOTAL CAPACITY (BTUH) ①	SENSIBLE CAPACITY (BTUH) ①	MINIMUM CFM	MINIMUM AREA (SQ. FT.)	MAXIMUM ΔP IN. WG. ②	UNIT SERVED	CARRIER MODEL	REMARKS

① CAPACITIES AT JOB SITE ELEVATION.
② WET COIL.

AIR COOLED CONDENSING UNITS (CU)

SYMBOL	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	COND. COIL AREA	COND. COIL CFM	AMBIENT AIR TEMP. (F)	ELECTRICAL REQUIREMENTS					UNIT SERVED	CARRIER MODEL	REMARKS
						VOLTS	PH.	HZ.	MCA	MOCP			
CU-1	28,400	23,900	23.71	3,170	95°	208	1	60	18.7	30	CC-1	244BA430	NOMINAL 2.5 TON CONDENSING UNIT

① CAPACITIES AT JOB SITE ELEVATION.

CEILING EXHAUST FANS (CEF)

SYMBOL	MINIMUM CFM	TOTAL STATIC PRESSURE IN. WG.	ELECTRICAL REQUIREMENTS				BROAN MODEL	SERVICE	REMARKS
			VOLTS	PH.	HZ.	WATTS			
CEF-1	75	0.375"	120	1	60	87	L100MG	RESTROOM	
CEF-2	75	0.375"	120	1	60	87	L100MG	RESTROOM	

① CAPACITIES AT JOB SITE ELEVATION.

CONTROL DAMPERS (CD)

SYMBOL	APPROX. SIZE	TYPE	FUSION MODEL	SERVICE	REMARKS
CD-1	8" Ø	90 DEGREE	CDRS-25	OUTSIDE AIR	

GRILLES AND DIFFUSERS

SYMBOL	CFM	NECK SIZE	FACE SIZE	KRUEGER MODEL	REMARKS
S-1	AS NOTED	AS NOTED	AS NOTED	SH	WITH O.B.D.
R-1/TG-1	AS NOTED	AS NOTED	AS NOTED	S85	

CONTROL EQUIPMENT

SYMBOL	DESCRIPTION	HONEYWELL MODEL NO.	REMARKS
T-1	THERMOSTAT	TB8220 SERIES	
X-1	TRANSFORMER	AT140A1000	
DM-1	DAMPER MOTOR	MS7605A2008	

GENERAL NOTES FOR MECHANICAL CONTROLS

1. ALL ELECTRICAL INSTALLATION, INCLUDING POWER DISTRIBUTION AND SPECIAL SYSTEMS, IS INCLUDED IN THE SCOPE OF THE GENERAL CONTRACT. OF SPECIFIC CONCERN ARE THE CONTROL SYSTEMS RELATED TO MECHANICAL EQUIPMENT. RESPONSIBILITY FOR THE CONTROL SYSTEMS RELATED TO MECHANICAL EQUIPMENT, RESPONSIBILITY FOR THE CONTROL WORK IS DIVIDED BETWEEN THE PROJECT ELECTRICIAN (DN. 16000) AND A SPECIALTY CONTROLS CONTRACTOR (DN. 16000).
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH DIVISION 16000 AND TO THE FULLEST EXTENT POSSIBLE, PRODUCTS AND PRACTICES SHALL BE SIMILAR FOR ALL INSTALLATIONS.
3. THE ELECTRICIAN SHALL PROVIDE ALL POWER TO AND THROUGHOUT THE BUILDING, TO INCLUDE MOTOR CONTROL CENTERS, BREAKER PANELS AND ALL OTHER SYSTEMS DESIGNATED TO THE ELECTRICIANS.
4. THE ELECTRICIAN SHALL RUN AND CONNECT ALL WIRING AND DEVICES 120 VOLTS AND ABOVE WHICH POWER MOTORS AND OTHER MECHANICAL DEVICES WHERE CONTROL DEVICES ARE LOCATED IN POWER CIRCUIT. THE CONTROLS CONTRACTOR SHALL INTERRUPT THE CIRCUIT IN THE MECHANICAL EQUIPMENT. JUNCTION BOX, WIRE THROUGH THE CONTROL DEVICE AND BACK TO THE JUNCTION BOX.
5. BREAKERS AND DISCONNECTS, AUXILIARY CONTACTS, STANDARD PILOT LIGHTS AND MAGNETIC STARTERS ARE THE RESPONSIBILITY OF DIVISION 16000.
6. AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, CONTROL PANEL SWITCHES & DEVICES, THERMOSTATS, PRESSURE SWITCHES, ELECTRIC OPERATED VALVES, ETC., ARE THE RESPONSIBILITY OF DIVISION 15000.
7. ANY QUESTION OF RESPONSIBILITY SHALL BE CLARIFIED BY THE GENERAL CONTRACTOR.
8. ALL WIRING SHALL TERMINATE AT LABELED TERMINAL STRIPS.

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PROJECT TITLE:
DIVISION OF WILDLIFE RESOURCES

OFFICE REMODEL

VERNAL, UTAH

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 27th March, 2009

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SHEET TITLE

OFFICE SCHED. AND DETAILS

SHEET NUMBER

M-SH000

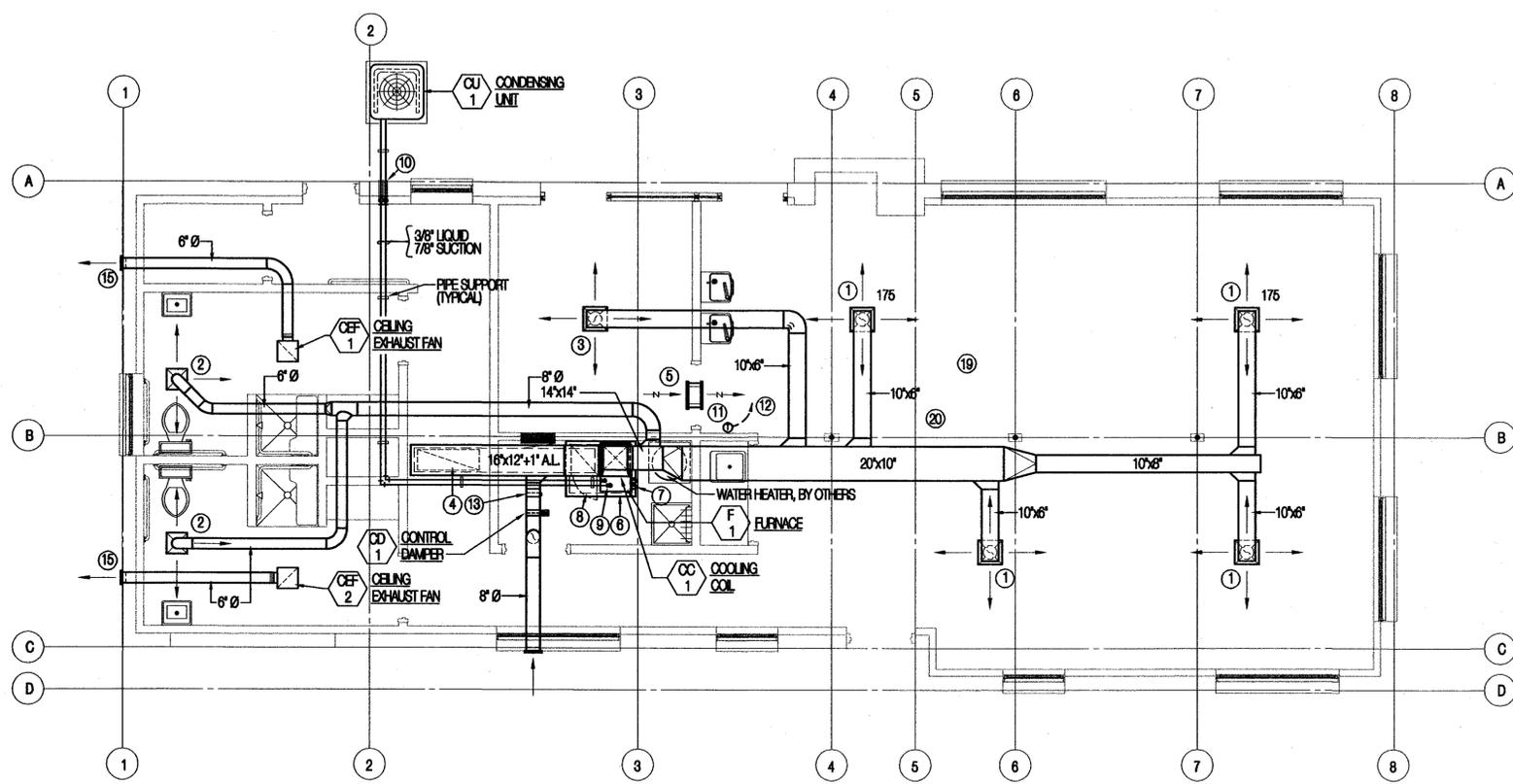
1

2

3

4

5



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



DRAWING NOTES

- ① [S-1] 175 CFM, 8" Ø NK. S.A. DIFFUSER ON BOTTOM OF DUCTWORK. PROVIDE BELLMOUTH TAKEOFF ON BOTTOM OF DUCT AND O.B.D. IN GRILLE FACE.
- ② [S-1] 75 CFM, 6" Ø NK. S.A. DIFFUSER WITH O.B.D.
- ③ [S-1] 160 CFM, 8" Ø NK. S.A. DIFFUSER ON BOTTOM OF DUCTWORK. PROVIDE BELLMOUTH TAKEOFF ON BOTTOM OF DUCT AND O.B.D. IN GRILLE FACE.
- ④ [R-1] 12"x36" NK. RA. GRILLE ON BOTTOM OF DUCT.
- ⑤ [TG-1] 14"x6" NK. T.A. GRILLE.
- ⑥ 40"Wx34"Dx11"H +1" A.L. (FIELD VERIFY) RETURN AIR PLENUM BELOW FURNACE. PLENUM TO BE CONSTRUCTED WITH 1"x1"x1/8" BLACK ANGLE IRON FRAME COVERED WITH 22 GAUGE GALVANIZED SHEET METAL. SHEET METAL TO BE SEALED AND FASTENED TO FRAME WITH POP RIVETS, TYPICAL ONE RIVET EVERY 6". SECURE FRAME TO FLOOR WITH 1/4" LAG BOLTS. NOTE THAT A SHEETMETAL BOTTOM IS REQUIRED IN THE PLENUM BECAUSE IT SITS ON A PLYWOOD FLOOR.
- ⑦ 3" PVC COMBUSTION AIR AND VENT PIPING TO TERMINATION KIT ON ROOF, SEE DETAIL 7/M-DT500.
- ⑧ FILTER HOLDING FRAME WITH ACCESS DOOR, SEE DETAIL 9/M-DT500 FOR ADDITIONAL INFORMATION.
- ⑨ REFRIGERATION PIPING CONNECTION AT DX COOLING COIL, CONNECT PER DETAIL 2/M-DT500.
- ⑩ PIPE SLEEVES AROUND REFRIGERATION PIPING AT WALL PENETRATION, SEAL WATER TIGHT PER DETAIL 5/M-DT500.
- ⑪ PROVIDE AND INSTALL NEW THERMOSTAT, MOUNT THERMOSTAT AT 48" A.F.F.
- ⑫ PLENUM RATED THERMOSTAT CABLE FROM THERMOSTAT TO FURNACE TERMINAL STRIP IN MECHANICAL CLOSET. SEE CONTROL DRAWINGS SHEET M000 FOR ADDITIONAL INFORMATION.
- ⑬ BALANCE 8" Ø OUTSIDE AIR MANUAL DAMPER TO 100 CFM.
- ⑭ BROAN MODEL 643 WALL CAP. REMOVE BACKRAFT DAMPER FROM WALL CAP PRIOR TO INSTALLATION. TRANSITION OUTSIDE AIR DUCTWORK TO WALL CAP INLET SIZE AND CONNECT. FINISH WALL CAP TO MATCH BUILDING EXTERIOR WITH TWO COATS PRIMER AND TWO COATS PAINT. PAINT BY G.C.
- ⑮ BROAN MODEL 641 WALL CAP OR EQUAL. TRANSITION EXHAUST DUCTWORK TO 6" Ø AND CONNECT TO WALL CAP. FINISH WALL CAP TO MATCH BUILDING EXTERIOR WITH TWO COATS PRIMER AND TWO COATS PAINT. PAINT BY G.C.

State of Utah

Department of Administrative Services

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PROJECT TITLE:

DIVISION OF WILDLIFE RESOURCES

OFFICE REMODEL

B VERNAL, UTAH

MARK	DATE	DESCRIPTION
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SHEET TITLE

OFFICE HVAC PLAN

SHEET NUMBER

M-HP100

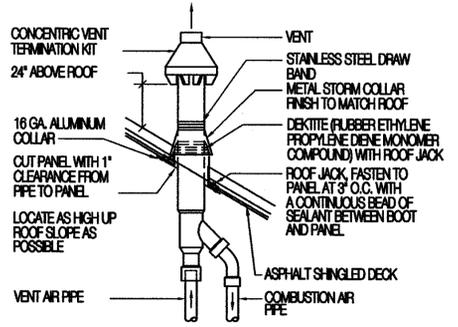
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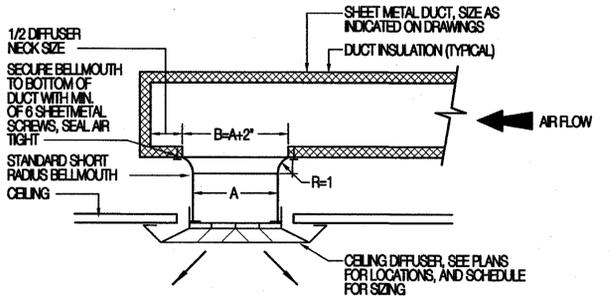
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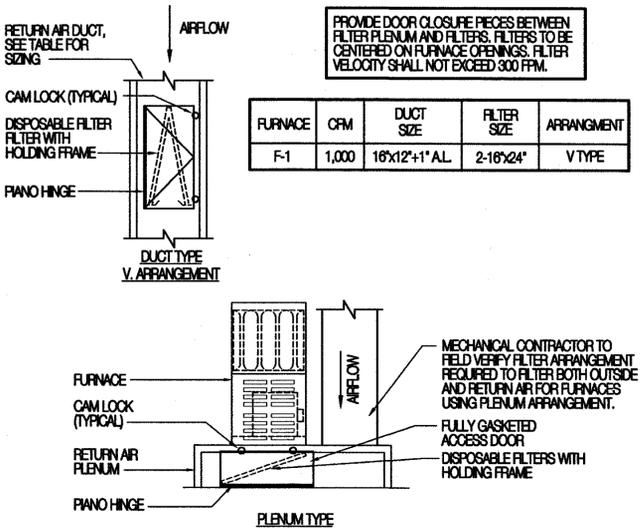


NOTE:
PAINT ALL VENT AND COMBUSTION PIPING TO MATCH ROOF COLOR.

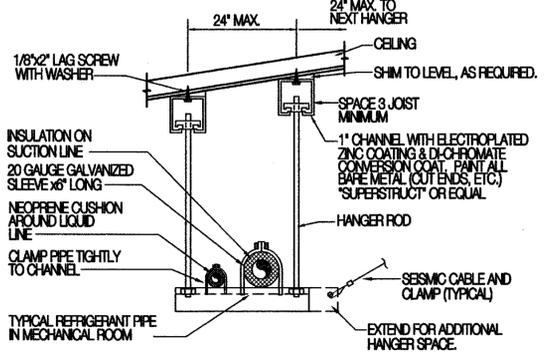
7 VENT ASSEMBLY KIT DETAIL
M-DT500 SCALE: NONE



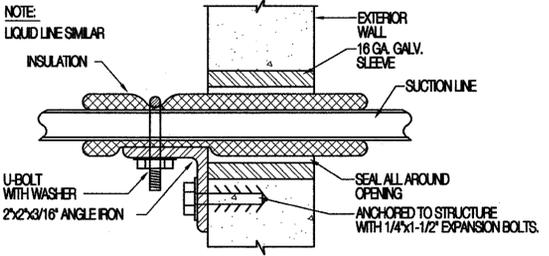
8 RECT. RUNOUT/DIFFUSER DETAIL
M-DT500 SCALE: NONE



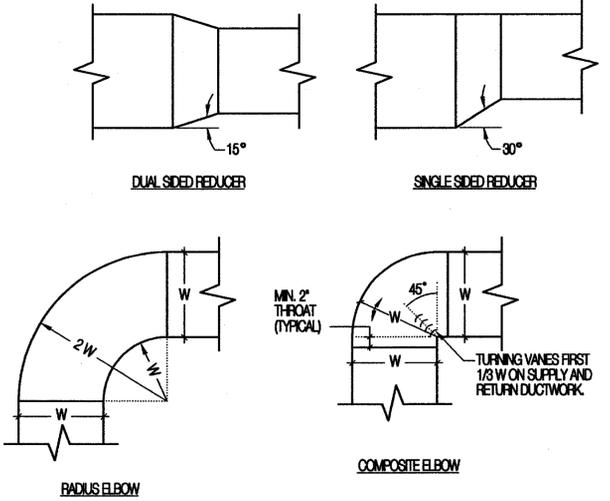
9 RETURN AIR FILTER DETAIL
M-DT500 SCALE: NONE



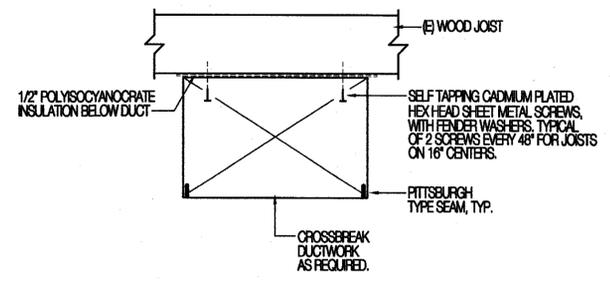
4 REFRIGERANT PIPING SUPPORT FROM JOIST DETAIL
M-DT500 SCALE: NONE



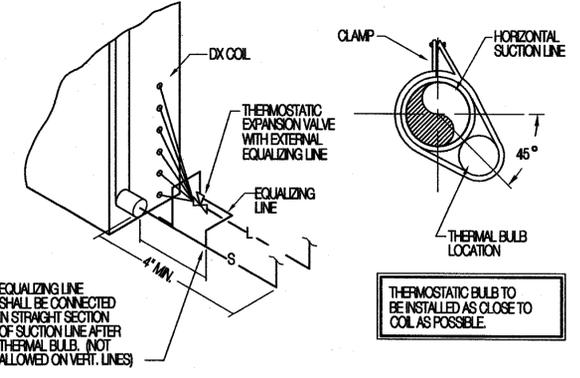
5 REFRIG. PIPING ANCHOR AT WALL
M-DT500 SCALE: NONE



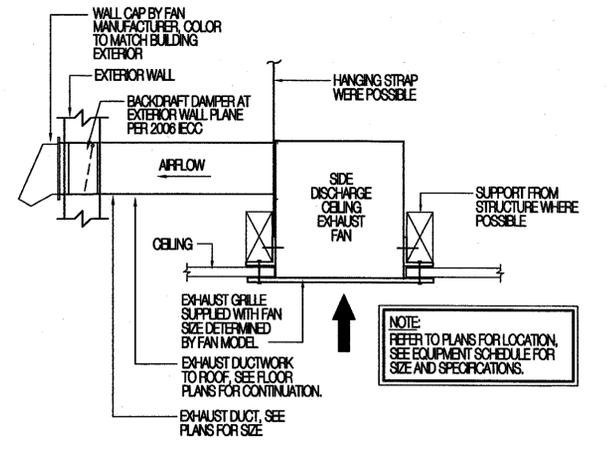
6 RECTANGULAR DUCT FITTINGS
M-DT500 SCALE: NONE



1 RECT. DUCT RUNOUT HANGER DETAIL
M-DT500 SCALE: NONE



2 DX COIL INSTALLATION DETAIL
M-DT500 SCALE: NONE



3 CEILING EXHAUST FAN DETAIL
M-DT500 SCALE: NONE

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OFFICE REMODEL
VERNAL, UTAH

MARK | DATE | DESCRIPTION
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SHEET NUMBER
M-DT500

PLUMBING SYMBOL LEGEND \ ABBREVIATIONS

FD	FLOOR DRAIN	RISE IN PIPE	CHECK VALVE
FOO	FLOOR CLEAN OUT	ELBOW IN PIPE	BALANCE VALVE
WCO	WALL CLEAN OUT	TEE IN PIPE	VTR
DCW	DOMESTIC COLD WATER (DCW)	GAS SHUTOFF VALVE	WHA
DHW	DOMESTIC HOT WATER (DHW)	GAS PRESSURE REGULATOR	AD
DHWRC	DOMESTIC HOT WATER RECIRC. (DHWRC)	BALL VALVE	A.F.F.
WASTE (W)	WASTE (W)	PIPE CAP	WH
VENT (V)	VENT (V)	VALVE IN DROP	HB
DROP IN PIPE	DROP IN PIPE	UNION	MV

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS
P-1	WATER CLOSET, FLOOR MOUNTED, FLUSH TANK TYPE, ADA COMPLIANT	1/2"	-	INT.	3"	2"	-
P-2	LAVATORY, WALL MOUNTED, ADA COMPLIANT, AUTOMATIC FAUCET	1/2"	1/2"	1-1/4"	2"	1-1/2"	-
P-3	SHOWER, SINGLE VALVE, THERMOSTATIC MIXING	1/2"	1/2"	2"	2"	2"	-
P-4	SERVICE SINK, FLOOR MOUNTED, PORCELAIN COATED CAST IRON	1/2"	1/2"	2"	2"	2"	-
P-5	BAR SINK, STAINLESS STEEL	1/2"	1/2"	1-1/2"	2"	1-1/2"	-
P-6	BILEVEL ELECTRIC WATER COOLER	1/2"	-	1-1/2"	2"	1-1/2"	-
FD	FLOOR DRAIN, 6" DIAMETER GRATE	-	-	2"	2"	2"	-
SD	SHOWER DRAIN, 6" DIAMETER GRATE	-	-	2"	2"	2"	-
WCO	WALL CLEAN OUT	-	-	-	-	-	-

GENERAL FIXTURE NOTES:

- THE PLUMBING CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF ALL PLUMBING EQUIPMENT AND THE RELATED ROUGH IN LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS. PROVIDE ALL ACCESSORIES AND OPTIONS REQUIRED TO PROVIDE THE OWNER A COMPLETELY FUNCTIONAL PLUMBING SYSTEM.
- ALL WALL HUNG PLUMBING FIXTURES SHALL BE SUPPORTED BY FLOOR MOUNTED CARRIERS BY WADE, SMITH, JOSAM, MIFAB, OR WATTS. CARRIERS SHALL BE CONSTRUCTED UTILIZING ALL METAL COMPONENTS WITH SUPPORT FEET SECURELY ANCHORED TO THE FLOOR STRUCTURE. FIXTURE ARMS SHALL SUPPORT FIXTURE INDEPENDENT FROM WALL STRUCTURE.
- EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED QUARTER TURN STOP VALVE BRASS CRAFT MODEL KITCR, OR ENGINEER APPROVED EQUAL.
- FIXTURES AND ACCESSORIES SHALL BE AS SCHEDULED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM.
- ADA COMPLIANT FIXTURES SHALL BE INSTALLED WITH PRE-FORMED INSULATION AND PROTECTIVE COVERS ON P-TRAPS AND STOPS. COVERS TO BE MANUFACTURED BY BUCKROOS OR TRUEBRO.
- CAULK ALL FIXTURES TO THE WALL OR FLOOR WITH APPLICABLE SILICONE COMPOUND. UTILIZE MULTIPLE BEADS TO FILL GAPS AND FINISH TO SMOOTH, FILED EDGE APPROPRIATE TOOLS. PROVIDE PROFESSIONAL APPEARANCE.
- ALL PLUMBING SHALL BE INSTALLED TO CONFORM TO THE LATEST ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE INCLUDING LOCAL AMENDMENTS. CONSULT AUTHORITIES HAVING JURISDICTION.

WATER HEATER (WH)

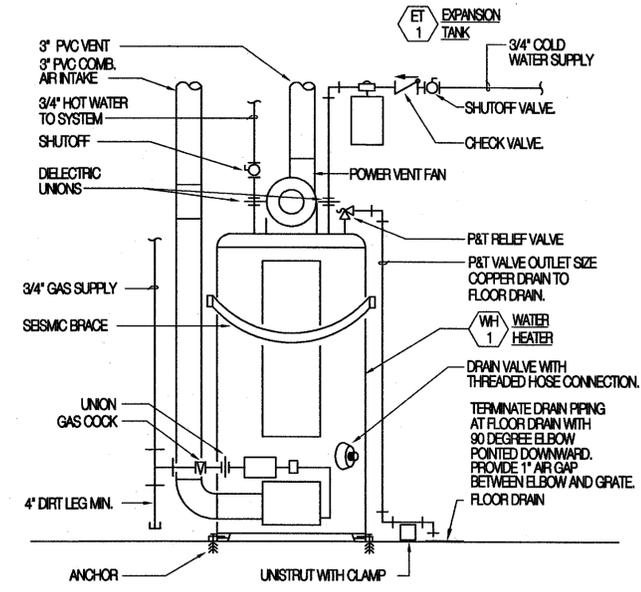
SYMBOL	NOMINAL INPUT BTUH	TANK VOLUME GALLONS	MINIMUM THERMAL EFF. (%)	INTAKE & EXHAUST TYPE / SIZE	ELEC. REQUIREMENTS			WATER CHARACTERISTICS			A.O. SMITH MODEL	REMARKS
					VOLTS	PH.	HZ.	EWI °F	LWT °F	RECOVERY (GPH)		
WH-1	42,000	40	80+	PVC3"	120	1	60	40	122	42.4	GPDH-40	

SEE SPECIFICATION SECTION 15446 FOR ADDITIONAL REQUIREMENTS.

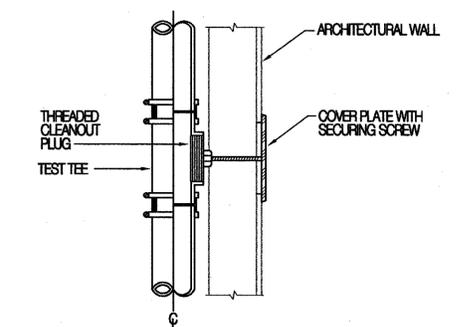
EXPANSION TANK (ET)

SYMBOL	TANK VOLUME GAL.	ACCEPT VOLUME GAL.	DUTY	AMTROL MODEL	ARRANGEMENT	REMARKS
ET-1	0.9	2.1	DOMESTIC WATER	ST-5	VERTICAL	

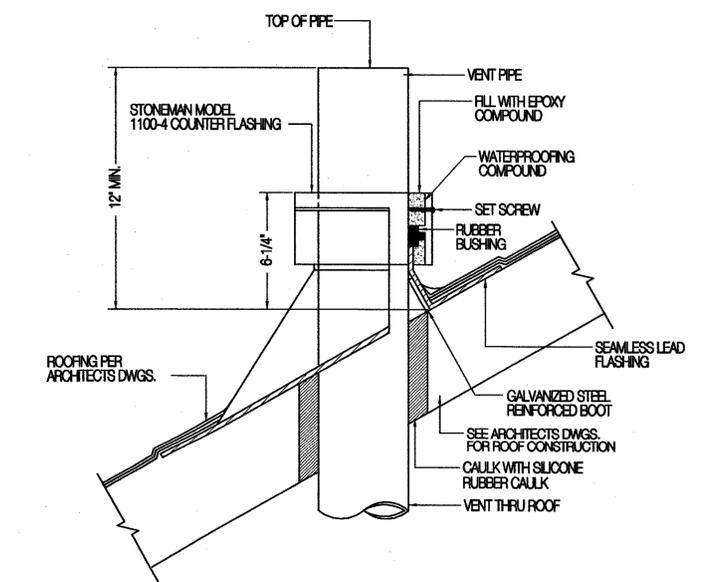
SEE SPECIFICATION SECTION 15410 FOR ADDITIONAL REQUIREMENTS.



1 WATER HEATER DETAIL
SCALE: NONE



2 WALL CLEANOUT DETAIL
SCALE: NONE



3 VENT THROUGH ROOF DETAIL
SCALE: NONE

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VERNAL, UTAH

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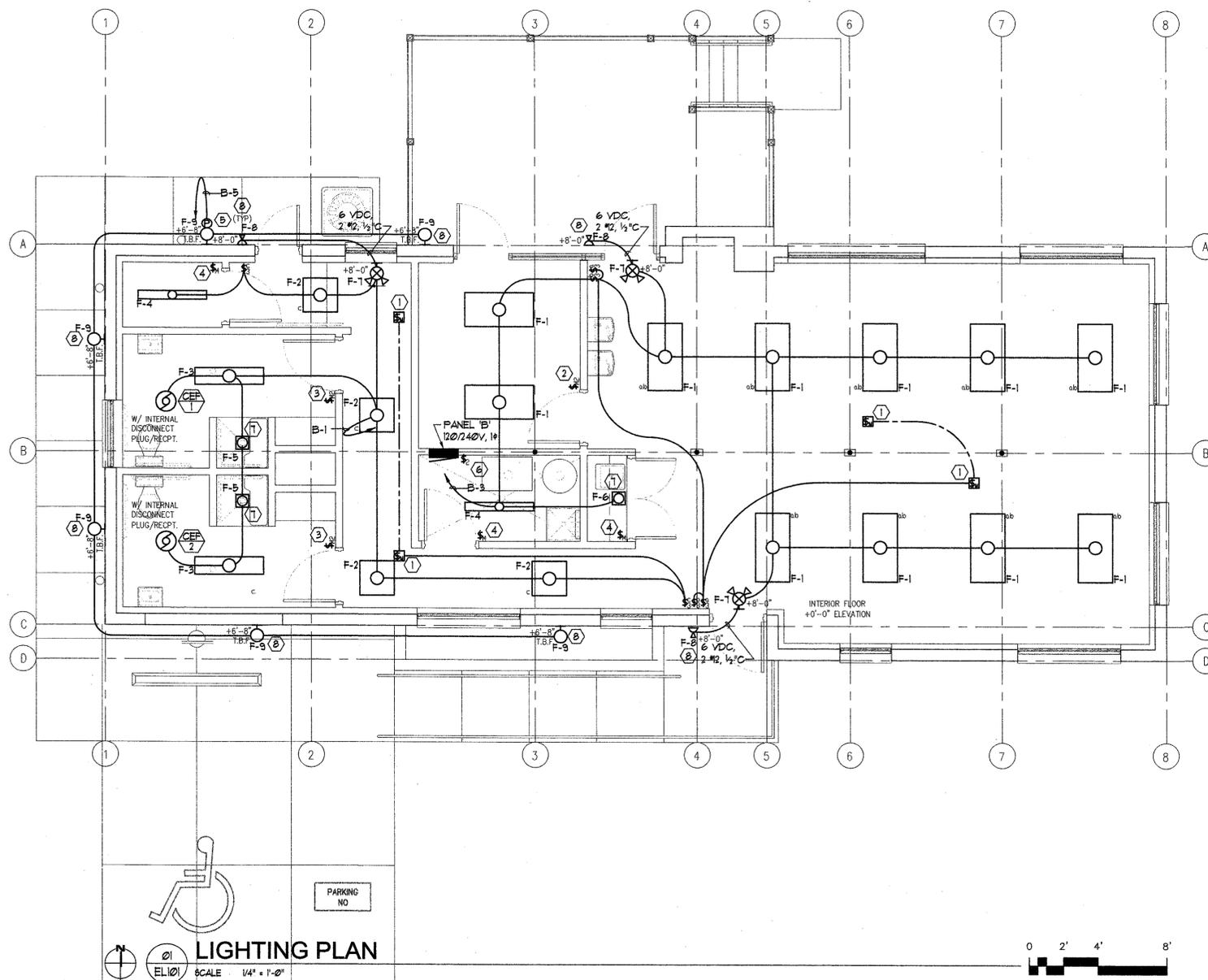
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SHEET TITLE

OFFICE PLUMB. SCHEDULES

SHEET NUMBER

P-SH000



GENERAL NOTES:

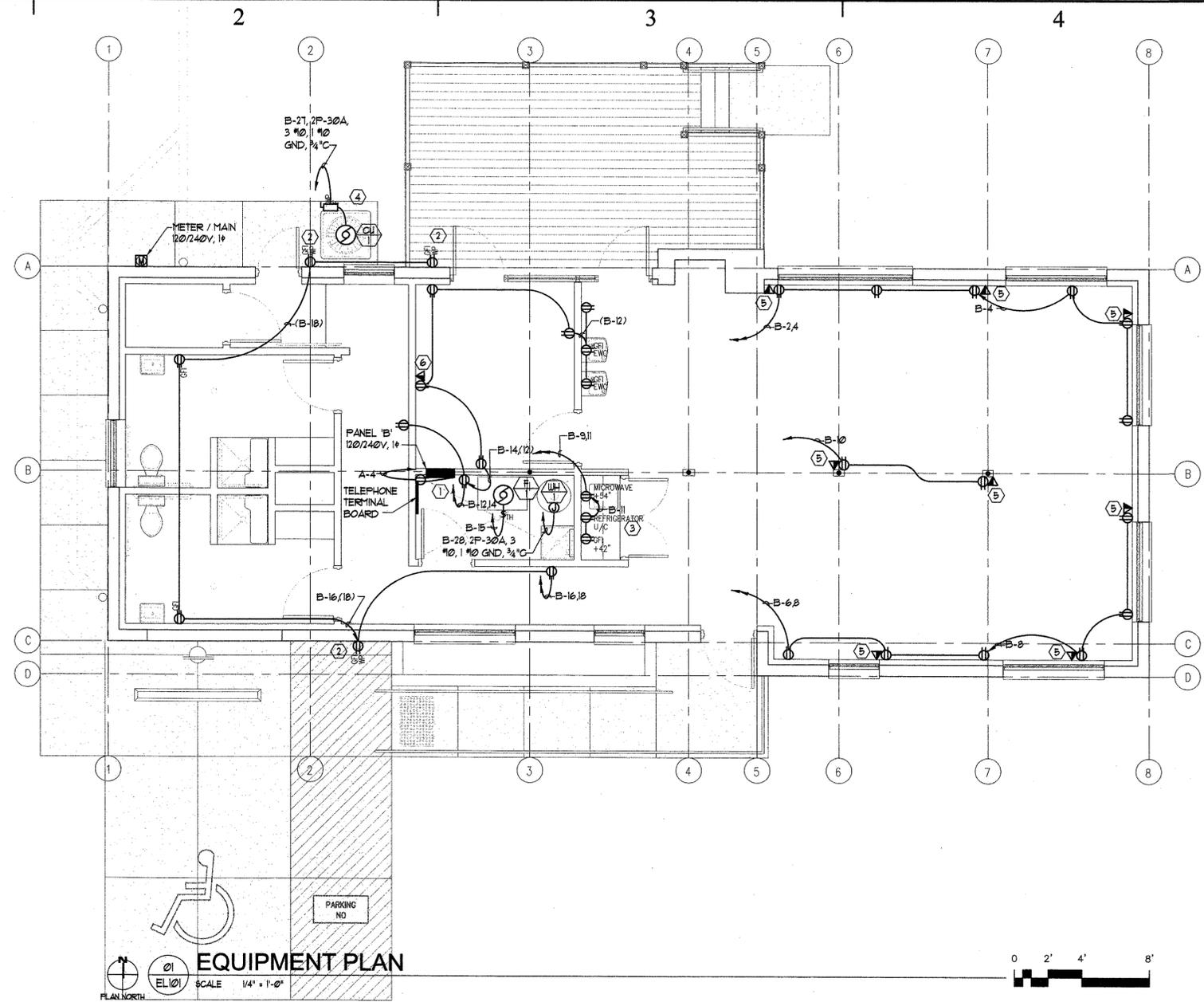
- COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
- COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
- WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.
- MULTIPLE BALLASTS SHALL BE CONNECTED WITH INSIDE LAMP BALLAST CONTROLLED BY ONE SWITCH AND OUTSIDE LAMP BALLAST CONTROLLED BY SECOND SWITCH.

REFERENCE NOTES:

- PROVIDE LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR AND SWITCH PACK. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CIRCUIT INSIDE LAMP BALLAST(S) TO ONE SWITCH LEG AND OUTSIDE LAMP BALLAST(S) TO OTHER SWITCH LEG. SWITCH: WATT STOPPER TYPE 'FUI-200' OR APPROVED EQUAL.
- PROVIDE DUAL CIRCUIT OCCUPANCY SENSOR SWITCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CIRCUIT INSIDE LAMP BALLAST(S) TO ONE SWITCH LEG AND OUTSIDE LAMP BALLAST(S) TO OTHER SWITCH LEG. SWITCH: WATT STOPPER TYPE 'FUI-200' OR APPROVED EQUAL.
- PROVIDE DUAL CIRCUIT OCCUPANCY SENSOR SWITCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CIRCUIT LIGHT FIXTURES TO ONE SWITCH LEG AND EXHAUST FAN TO OTHER SWITCH LEG. SWITCH: WATT STOPPER TYPE 'FUI-200' OR APPROVED EQUAL.
- PROVIDE OCCUPANCY SENSOR SWITCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SWITCH: WATT STOPPER TYPE 'WA-100' OR APPROVED EQUAL.
- PROVIDE PHOTOCELL - 2000 WATT, 120 VOLT, WITH 8PST CONTACTS. INSTALL OUTSIDE FACING NORTH AND AWAY FROM LIGHT SOURCES. PHOTOCELL: TORK '1201' OR APPROVED EQUAL.
- PROVIDE 8PST SWITCH LABEL 'EXTERIOR LIGHTING'. CONNECT EXTERIOR LIGHTING DIRECTLY THROUGH ONE POLE AND LABEL 'MANUAL'. CONNECT EXTERIOR LIGHTING THROUGH PHOTOCELL AND SECOND POLE AND LABEL 'AUTOMATIC'.
- DOWNLIGHT INSTALLED IN INSULATED CEILING. HOLD INSULATION BACK FROM FIXTURE MINIMUM OF 3" FROM ALL FIXTURE COMPONENTS. COORDINATE CLEARANCE REQUIREMENTS WITH FIXTURE MANUFACTURER, SUPPLIER AND GENERAL CONTRACTOR PRIOR TO ORDERING.
- INSTALL NEW FIXTURE ON EXISTING EXTERIOR MASONRY WALL. OUTLET BOXES SHALL BE INSTALLED FLUSH. RACEWAYS SHALL BE ROUTED TO THE INTERIOR OF THE BUILDING AND RUN CONCEALED WITHIN INTERIOR WALLS. REPAIR EXISTING WALL AS REQUIRED TO MATCH SURROUNDING SURFACES. FIELD VERIFY REQUIREMENTS AND COORDINATE WITH GENERAL CONTRACTOR.

FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP
F-1	DAYBRITE METALUX	2SM-332-FS12-UNV-1/21EB10R 2M-332-A-UNV-ER82	2' X 4', 3 LAMP, SURFACE MODULAR FLUORESCENT FIXTURE WITH #12 0.125" PRISMATIC LENS, WHITE STEEL HOUSING AND ONE (1) 1 LAMP / ONE (1) 2 LAMP, UNIVERSAL ELECTRONIC PROGRAMMED START BALLASTS.	3F32T8/TL835
F-2	DAY-BRITE METALUX	2SM-217-FS21-UNV-ER81 2M317-A125-UNV-EB81	2' X 2', 2 LAMP, SURFACE FLUORESCENT FIXTURE WITH WHITE STEEL HOUSING, FLUSH STEEL DOOR, 0.125" THICK ACRYLIC PRISMATIC LENS, AND ONE (1) 2 LAMP, UNIVERSAL ELECTRONIC PROGRAMMED START BALLAST.	2F17T8/TL835
F-3	DAYBRITE METALUX	CAN-232-UNV-1/2EB10R V-232-A-UNV-ER81	4', 2 LAMP, SURFACE WRAP-AROUND FLUORESCENT FIXTURE WITH PRISMATIC LENS, WHITE STEEL HOUSING AND UNIVERSAL ELECTRONIC PROGRAMMED START BALLAST.	2F32T8/TL835
F-4	DAY-BRITE METALUX	SJ-132-UNV-EB10R CR-132-UNV-ER81	4', 1 LAMP, SURFACE WRAP-AROUND FLUORESCENT FIXTURE WITH PRISMATIC LENS, WHITE STEEL HOUSING AND ONE (1) 1 LAMP <10% THD UNIVERSAL ELECTRONIC PROGRAMMED START BALLAST.	1F32T8/TL835
F-5	CAPRI HALO	FR6V180-R12P H280E1CAT-70PS	COMPACT FLUORESCENT IC RATED DOWNLIGHT FIXTURE WITH 6" DIAMETER APERTURE, ALBALITE LENS, WHITE TRIM (WET LOCATION LABEL) AND 120 VOLT ELECTRONIC BALLAST.	1CF18PLT/35K
F-6	CAPRI HALO	FR6V2632U-RMA100CLR H285E1CAT-406SC	COMPACT FLUORESCENT IC RATED DOWNLIGHT FIXTURE WITH 6" DIAMETER APERTURE, OPEN CLEAR REFLECTOR, WHITE TRIM AND 120 VOLT ELECTRONIC BALLAST.	1CF26PLT/35K
F-7	McPHILBEN SURE-LITES	EXCLL-1R-BEH18 UNH1SRVDHL	COMBINATION LED EXIT LIGHT / EMERGENCY WALLPACK WITH RED LETTERS, CANOPY, PRISMATIC DIFFUSER, STEEL HOUSING, WHITE FINISH, LEAD CALCIUM BATTERY (20 V @ 1-1/2 HRS), CHARGER, INDICATOR LIGHT, TEST SWITCH AND TWO (2) 5.4 W HEADS.	FURNISHED W/ FIXTURE
F-8	McPHILBEN LIGHTOLIER	CCHIV10 ER-1-H10-V	REMOTE EMERGENCY HEAD WITH WHITE BACK PLATE, CLEAR DIFFUSER, GASKETED AND 10 W 6 VOLT HALOGEN HEAD.	FURNISHED W/ FIXTURE
F-9	RECEPSEB LIGHTING	ZE-XL-MH50-120-HPF-BR-BB-CTB	WALL MOUNTED METAL HALIDE FIXTURE WITH WHITE TRANSLUCENT .125" ACRYLIC DIFFUSER, CLEAR TOP AND BOTTOM, SQUARE ALUMINUM BAR CAGE, PERFORATED VERTICAL BAND, BRONZE POWDER COAT FINISH, ALUMINUM BACKPLATE / BACK BOX AND 120 VOLT HIGH POWER FACTOR BALLAST.	50W MH



- GENERAL NOTES:**
- COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
 - WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, THE BRANCH CIRCUIT SHALL BE THAT SIZE WIRE THROUGHOUT, INCLUDING SWITCH LEGS, ETC.
 - FIELD COORDINATE LOCATION OF ALL NEW OUTLETS WITH OWNER'S FURNITURE AND EQUIPMENT LOCATIONS PRIOR TO ROUGHING IN NEW OUTLETS.

- REFERENCE NOTES:**
- WORKING SPACE FOR ELECTRICAL EQUIPMENT FROM FLOOR TO 6'-6" ABOVE FLOOR, FULL WIDTH OF EQUIPMENT (OR 30" WIDE, WHICHEVER IS GREATER) TO EXTEND MINIMUM 36" FROM THE FRONT OF EQUIPMENT ENCLOSURE IN ACCORDANCE WITH NEC ARTICLE 110.26. COORDINATE WITH OTHER CONTRACTORS TO KEEP THE ELECTRICAL WORKING SPACE CLEAR OF PIPING, DUCTWORK, CONDUIT, ETC. ALSO, THE AREA ABOVE THE PANELBOARDS TO THE STRUCTURAL CEILING (BOTTOM OF ROOF DECK), THE WIDTH AND DEPTH OF THE PANELBOARD ENCLOSURE IS A DEDICATED ELECTRICAL SPACE IN ACCORDANCE WITH NEC ARTICLE 110.26(F). COORDINATE WITH OTHER CONTRACTORS TO KEEP THE DEDICATED ELECTRICAL SPACE CLEAR OF PIPING, DUCTWORK, ETC.
 - PROVIDE NEW EXTERIOR OUTLET ON EXISTING MASONRY WALL, INCLUDING SHALL FS BOX WITH NEMA 3R COVER WHILE IN USE. RACEWAYS SHALL BE ROUTED TO THE INTERIOR OF THE BUILDING AND RUN CONCEALED WITHIN INTERIOR WALLS. REPAIR EXISTING WALL AS REQUIRED TO MATCH SURROUNDING SURFACES. FIELD VERIFY REQUIREMENTS AND COORDINATE WITH GENERAL CONTRACTOR.
 - COORDINATE OUTLET LOCATIONS IN KITCHENETTE WITH ARCHITECTURAL ELEVATIONS, CABINET SUPPLIER / INSTALLER AND GENERAL CONTRACTOR.
 - PROVIDE CONTROL WIRING BETWEEN IN CONDUIT BETWEEN FURNACE F/1 AND CONDENSING UNIT CU/1. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - PROVIDE 4" SQ. OUTLET BOX WITH SINGLE GANG FLASTER RING WITH 1" TO TELEPHONE TERMINAL BOARD. TERMINATE RACEWAY WITH INSULATED THROUGH CONNECTOR. PROVIDE 200 LB TENSILE STRENGTH NYLON FULL STRING.

EQUIPMENT SCHEDULE										
EQUIP. NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS H.P.	BREAKER	STARTERS	FURNISH/INSTALL	AUX. CONT.	LOCATION
F-1	FURNACE	B-15	120	1	1/3 HP	1P-15A	E E	E	5"	UTILITY
CU-1	CONDENSING UNIT	B-21	240	1	18.7A MCA	2P-30A	S S S	S	S	OUTSIDE
CEF-1	EXHAUST FAN	B-1	120	1	87 WATTS	1P-20A	S S S	S	S	WOMEN'S
CEF-2	EXHAUST FAN	B-1	120	1	87 WATTS	1P-20A	S S S	S	S	MEN'S

E - ELECTRICAL CONTRACTOR
M - MECHANICAL CONTRACTOR
S - SUPPLIED WITH EQUIPMENT

EQUIPMENT PLAN
SCALE 1/4" = 1'-0"
PLAN NORTH



COMcheck Software Version 3.4.0 Lighting Compliance Certificate

2006 IECC

Report Date: 03/26/09
Data filename: C:\DWR Vernal Office.cck

Section 1: Project Information

Project Title: DWR NEW SHOP AND OFFICE REMODEL

Construction Site: Office Building
Vernal, UT

Owner/Agent:

Designer/Contractor:
Ray Kolkman
Thomas and Kolkman Engineering Co.,
Inc.
64 West 1700 South
Salt Lake City, UT 84115
(801) 484-8181

Section 2: General Information

Building Use Description by: Activity Type
Project Type: New Construction

Activity Type(s): Office
Floor Area: 1440

Section 3: Requirements Checklist

Interior Lighting:

- 1. Total actual watts must be less than or equal to total allowed watts.
- | Allowed Watts | Actual Watts | Complies |
|---------------|--------------|----------|
| 1440 | 1375 | YES |

Exterior Lighting:

- 2. Efficiency greater than 45 lumens/W.
- 3. Comply with Sections 505.2.4 and 505.6 of IECC 2006 and attach documentation.

Controls, Switching, and Wiring:

- 4. Independent controls for each space (switch/occupancy sensor).
- 5. Master switch at entry to hotel/motel guest room.
- 6. Individual dwelling units separately metered.
- 7. Each space provided with a manual control to provide uniform light reduction by at least 50%.

Page 1 of 3

- 8. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
- 9. Photocell/astronomical time switch on exterior lights.
- 10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2006 IECC requirements in COMcheck Version 3.4.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name: Title Signature Date

Page 2 of 3



COMcheck Software Version 3.4.0 Lighting Application Worksheet

2006 IECC

Report Date:
Data filename: C:\DWR Vernal Office.cck

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Office	1440	1	1440
Total Allowed Watts =			1440

Section 2: Actual Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Office (1440 sq.ft.)				
Linear Fluorescent 1: F-1: 3 Lamp 2'x4' Surface / 48" T8 32W / Electronic	3	12	85	1020
Linear Fluorescent 2: F-2: 2 Lamp 2'x2' Surface / 24" T8 17W / Electronic	2	4	29	116
Linear Fluorescent 3: F-3: 4' 2 Lamp Wraparound / 48" T8 32W / Electronic	2	2	56	112
Linear Fluorescent 4: F-4: 4' 1 Lamp Wraparound / 48" T8 32W / Electronic	1	2	29	58
Compact Fluorescent 1: F-5: Downlight / Triple 4-pin 18W / Electronic	1	2	20	40
Compact Fluorescent 2: F-6: Downlight / Triple 4-pin 26W / Electronic	1	1	29	29
Total Actual Watts =				1375

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Actual Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 1440
Total Actual Watts = 1375
Project Compliance = 65

Lighting PASSES (Project Compliance >= 65)

Page 3 of 3

State of Utah

Department of Administrative Services



Division of Facilities
Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267

Internet: http://www.dfc.state.ut.us

CREATED BY: P+A architects

P+A architects

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architecture planning design

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PROJECT TITLE:

DIVISION OF WILDLIFE
RESOURCES

OFFICE REMODEL

VERNAL, UTAH

MARK DATE DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 27th March, 2009

DFCM PROJECT NO: 08286520

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: RGK

CHKD BY: WBG

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SHEET TITLE

RISER DIAGRAMS
SCHEDULES

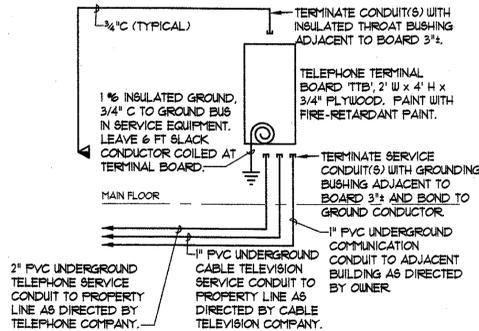
SHEET NUMBER

E-601

SHEET OF

TELEPHONE RISER NOTES

- BURY ALL UNDERGROUND CONDUITS OUTSIDE OF BUILDING MINIMUM 24 INCHES BELOW FINISH GRADE.
- ALL CONDUIT THROUGH GRADE AND ELBOWS USED WITH PVC CONDUIT SHALL BE CORROSION PROTECTED GALVANIZED RIGID STEEL CONDUIT.
- COORDINATE INSTALLATION OF TELEPHONE SERVICE WITH LOCAL TELEPHONE COMPANY PRIOR TO BEGINNING WORK.
- COORDINATE TELEPHONE/DATA SYSTEM REQUIREMENTS INCLUDING OUTLET LOCATIONS, OUTLET QUANTITIES, JACK TYPE, CABLING, ETC. WITH OWNER PRIOR TO BEGINNING WORK.

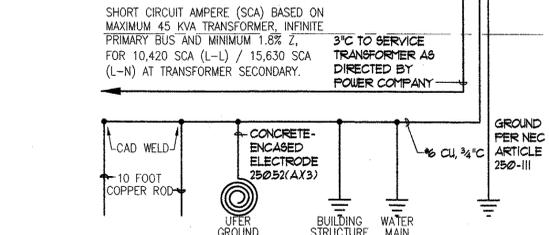


COMMUNICATION RISER DIAGRAM

01 E-601 SCHEMATIC

POWER RISER NOTES

- COORDINATE INSTALLATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY PRIOR TO BEGINNING WORK.
- ALL NEW CONDUCTORS SHOWN SHALL BE COPPER.
- BURY ALL UNDERGROUND CONDUITS MINIMUM 24 INCHES BELOW FINISH GRADE WITH YELLOW MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 1/8 INCHES ABOVE THE CONDUIT.
- ALL CONDUIT THROUGH GRADE AND ELBOWS USED WITH PVC CONDUIT SHALL BE FACTORY PVC COATED RIGID STEEL CONDUIT.



POWER RISER DIAGRAM

02 E-601 SCHEMATIC

NO.	BREAKER	NO.	NO.	LOAD -VA	REMARKS
1	1	20	9	484	LTS - HALL, RESTROOMS & CLOSET
2	1	1	3	540	DUTS - OFFICE
3	1	1	13	1,380	LTS - OFFICES, UTILITY & KITCHENETTE
4	1	1	3	540	DUTS - OFFICE
5	1	1	5	300	LTS - EXTERIOR
6	1	1	3	540	DUTS - OFFICE
7	1	1	3	540	SPARE - OFFICE
8	1	1	3	540	DUTS - OFFICE
9	1	1	1	1,500	DUT - KITCHENETTE
10	1	1	2	360	DUTS - OFFICE
11	1	1	2	1,500	DUTS - KITCHENETTE
12	1	1	4	720	DUTS - OFFICE
13	1	1	1	180	DUT - TELEPHONE TERMINAL BOARD
14	1	20	5	1,340	DUTS - UTILITY, OFFICE & EWC
15	1	15	1	1,253	FURNACE
16	1	20	2	360	DUTS - RESTROOMS
17	1	1	1	360	SPARE
18	1	1	4	720	DUTS - HALL & EXTERIOR
19	1	1	1	360	SPARE
20	1	1	1	360	SPARE
21	1	1	1	360	SPARE
22	1	1	1	360	SPARE
23	1	1	1	360	SPARE
24	1	20	1	360	SPARE
25	1	1	1	360	SPACE
26	1	1	1	360	SPACE
27	2	30	1	2,244	CONDENSING UNIT
28	2	30	1	2,250	WATER HEATER
29	1	1	1	2,244	SPACE
30	1	1	1	2,250	SPACE
31	1	1	1	2,250	SPACE
32	1	1	1	2,250	SPACE
33	1	1	1	2,250	SPACE
34	1	1	1	2,250	SPACE
35	1	1	1	2,250	SPACE
36	1	1	1	2,250	SPACE
37	1	1	1	2,250	SPACE
38	1	1	1	2,250	SPACE
39	1	1	1	2,250	SPACE
40	1	1	1	2,250	SPACE
41	1	1	1	2,250	SPACE
42	1	1	1	2,250	SPACE
TOTAL CONNECTED LOAD				10,458	10,787
CONNECTED				21,245	VA
MULTIPLIER				1.25	
TOTAL				2,488	VA
L&C=LIGHTING & CONTINUOUS				1,990	X 1.25 = 2,488
LN=LARGEST MOTOR				4,488	X 1.25 = 5,610
M=MOTORS & NON-CONT.				9,727	X 1.25 = 12,159
R=RECEPTACLE				5,040	VA NEC 220-13
K=KITCHEN EQUIPMENT				0	VA NEC 220-20
TOTAL CALCULATED LOAD				22,864	VA 95 AMPS

SYMBOL LIST

SYMBOL	DESCRIPTION
○	FLUORESCENT FIXTURE
□	WALL MOUNTED FIXTURE
○	CEILING MOUNTED FIXTURE
⊗	DOWNLIGHT (RECESSED) FIXTURE
⊕	COMBINATION EXIT LIGHT / EMERGENCY FIXTURE
⊖	REMOTE EMERGENCY HEAD
⊙	SINGLE POLE SWITCH
⊕	OCCUPANCY SENSOR SWITCH
⊖	OCCUPANCY SENSOR SWITCH - DUAL CIRCUIT
⊕	OCCUPANCY SENSOR W/ SWITCHPACK
⊙	JUNCTION BOX
⊕	DUPLEX RECEPTACLE
⊖	DUPLEX RECEPTACLE W/ GROUND FAULT PROTECTION
⊕	RECEPTACLE FOR ELECTRIC WATER COOLER
⊖	SPECIAL PURPOSE OUTLET W/ NEMA DESIGNATION
⊕	POWER PANELBOARD, 120/240 VOLT, 1 PHASE
⊖	2 PHASE, 3 WIRE HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
⊕	BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
⊖	TELE/DATA OUTLET
⊕	MANUAL MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION
⊖	COMBINATION DISCONNECT / STARTER
⊕	MOTOR
⊖	FIXTURE SCHEDULE SYMBOL
⊕	KEYED NOTE SYMBOL
⊖	EQUIPMENT SCHEDULE SYMBOL
⊕	INDICATES DEVICE/EQUIPMENT IN MINIMUM NEMA 3R ENCLOSURE
⊖	INDICATES DEVICE INSTALLED "UNDER COUNTER"
⊕	ELEVATION INDICATED IS "TO BOTTOM OF FIXTURE"