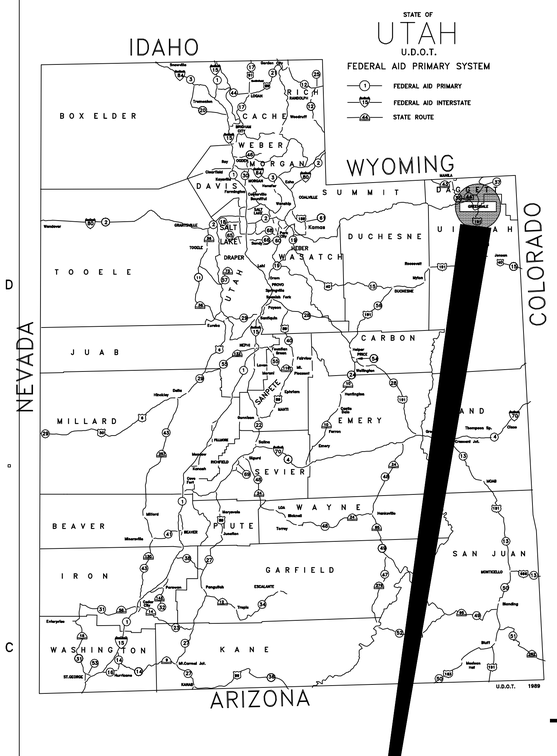

LOCATION MAP
NO SCALE

UDOT MAINTENANCE STATION #3437A

GREENDALE, UTAH

DFCM PROJECT #07029900

CONSTRUCTION DOCUMENTS

FEBRUARY, 2008

PREPARED BY

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CODE ANALYSIS

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	N.A.
International Fire Code	2006	ADA Accessibility	
International Energy		Guildelines	2006
Conservation Code	2006		

A. Occupancy and Group: S2 (GARAGE) B (OFFICES ACCESSORY)

Change in Use: Yes ____ No X Mixed Occupancy: Yes X No ____

Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category: B Design Wind Speed: 90 MPH, EXPOSURE C

C. Type of Construction (circle one):

I A | I B | II A | II B | III A | III B | IV HT | V A | (V B)

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

North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: YES Nonseparated Uses: YES

F: Sprinklers:

Required: NO Provided: NO Type of Sprinkler System: N.A.

G: Number of Stories: 1 Building Height: 24'-6"

H: Actual Area per Floor (square feet): 4,997 SF

I: Tabular Area: 9000 SF

J: Area Modifications:

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

$15750\ SF = 9000 + \left[\frac{9000\ (75)}{100}\right] + \left[\frac{9000\ (0)}{100}\right]$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1 \quad \frac{4{,}997\ SF}{15750\ SF} = .317$

c) Total Allowable Area for:

1) One Story: 15750 SF
2) Two Story: $A_a(2)$ N.A.
3) Three Story: $A_a(3)$ N.A.

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

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

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

L. Design Occupant Load: 13* (Per IBC TABLE 1004.1.2 Using 500 S.F. per Occupant for garages, 100 S.F. for office areas)

Exit Width Required: 3.9" Exit Width Provided: 36"

M. Minimum Number of Required Plumbing Facilities: *UNISEX (IBS SECTION 2902.2 EXPECTION 2)

Actual Occupant Load: 4 BASED ON ACTUAL UDOT STAFFING

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 (EMERGENCY EYEWASH)
d) Drinking Fountains: 1 Service Sinks: 1

MAXIMUM EMPLOYEES PERMITTED = 15

GENERAL NOTE:

1. CONSTRUCTION OF NEW STATE BUILDINGS AND REMODELING OF EXISTING BUILDINGS SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE DFCM STANDARDS, INCLUDING ENHANCED ACCESSIBILITY. THE DFCM STANDARDS CAN BE FOUND AT THE FOLLOWING WEB SITE: www.dfcm.utah.gov.

2. STEEL BUILDINGS SHALL COMPLY WITH IBC SECTION 106.3.4.2, DEFERRED SUBMITTALS.

CLIENT

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RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

COVER SHEET

G000

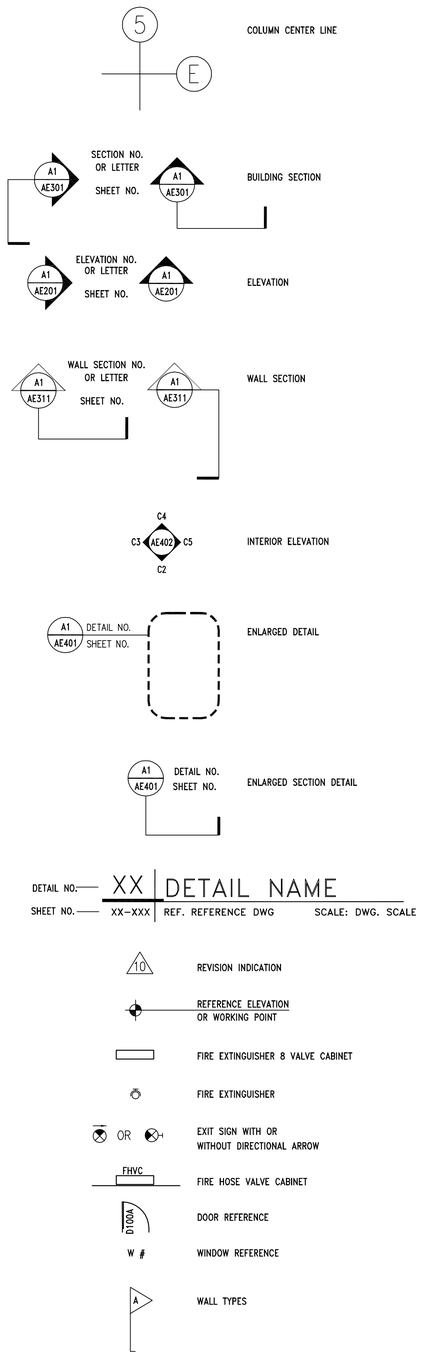
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
3. ALL DIMENSIONS ARE TO FACE OF CONCRETE OR FACE OF GYPSUM BOARD, U.N.O.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
5. DIMENSIONS NOTED AS N.T.S. ARE TO BE FIELD VERIFIED.
6. ALL WOOD IN CONTACT WITH OR WITHIN 8" OF SOILS IS TO BE FIELD TREATED FOR MOISTURE, RODENT AND INSECT PROTECTION.
7. THE CONTRACTOR SHALL COORDINATE THE SEQUENCING OF WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
8. CONTRACTOR SHALL LEAVE WORK AREAS BROOM CLEAN AND FREE OF TOOLS, EQUIPMENT, ETC., AT THE END OF EACH SHIFT. ALL CONSTRUCTION ACTIVITY SHALL BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTOR SHALL PROTECT OWNERS EXISTING CONSTRUCTION AND EQUIPMENT ADJACENT TO NEW CONSTRUCTION. CONTRACTOR SHALL CLEAN ALL SURFACES TO "LIKE NEW" CONDITION AT THE COMPLETION OF
9. PROVIDE WATER SUPPLY ROUGH-IN AND ELECTRICAL SUPPLY TO IRRIGATION CONTROLS. PROVIDE PVC SLEEVE UNDER PAVEMENTS AND WALKS
10. THE DESIGN OF THE PRE MANUFACTURED STRUCTURAL ROOF SYSTEM INCLUDING THE STEEL DECK, JOISTS, GIRDERS, COLUMNS AND THE LATERAL FORCE RESISTING SYSTEM (INCLUDING RIGID FRAMES) IS THE RESPONSIBILITY OF THE PRE MANUFACTURED METAL BUILDING SUPPLIER. FOOTINGS, STEEL COLUMNS, CONCRETE PIER SIZES & LOCATIONS SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDE AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

GRAPHIC SYMBOLS

- EARTH
- SAND
- CONC. W/ FINISH
- TILE W/ BED
- BRICK
- CMU
- LIMESTONE
- WOOD (BLOCKING)
- WOOD FRAMING
- STEEL
- RIGID INSULATION
- PLASTER
- COMP. FILLER
- METAL LATH
- GRAVEL
- CONCRETE
- CAST STONE
- MARBLE
- GRANITE
- STONE
- PLYWOOD
- WOOD FINISH
- ALUMINUM
- BATT INSULATION
- ACOUSTICAL TILE
- BACKER ROD AND FILLER
- GYPSUM BOARD
- FENCE

ARCHITECTURAL LEGEND



ABBREVIATIONS

ALT.	ALTERNATE
ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
&	AND
ARCH.	ARCHITECTURAL
@	AT OR AT THE
BM.	BEAM
BLK.	BLOCK
BLKG.	BLOCKING
BD.	BOARD
BOT.	BOTTOM
BLDG.	BUILDING
CLKG.	CAULKING
C.I.	CAST IRON
CLG.	CEILING
CEM.	CEMENT
CTR.	CENTER
	CENTER LINE
CER.	CERAMIC
C.T.	CERAMIC TILE
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALLED
CLR.	CLEAR (...ANCE)
CLO.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUE/CONTINUOUS
CONTR.	CONTRACTOR
C.J.	CONTROL JOINT
CORR.	CORRIDOR
CNTR.	COUNTER
CTSK.	COUNTERSUNK
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
D.S.	DOWNSPOUT
DWG.	DRAWING
D.F.	DRINKING FOUNTAIN
EA.	EACH
ELEC.	ELECTRIC (AL)
ELEV./EL.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXP.	EXPANSION
EXT.	EXTERIOR
EW	EACH WAY
FIN.	FINISH
F.A.	FIRE ALARM
F.E.	FIRE EXTINGUISHER
F.E.C.	F.E. CABINET
FLR./FL.	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
FDN.	FOUNDATION
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
GA.	GAUGE
GL.	GLASS
GR.	GRADE
GND.	GROUND
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
HDWR.	HARDWARE
HDWD.	HARDWOOD
HT.	HEIGHT
H.P.	HIGH POINT
HORIZ.	HORIZONTAL
H.B.	HOSE BIBB
HM	HOLLOW METAL
HR.	HOURS (FIRE RATING)
IN.	INCH
I.D.	INSIDE DIAMETER
INUSL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
J-BOX	JUNCTION BOX
KIT.	KITCHEN
LAM.	LAMINATE
LAV.	LAVATORY
LT.	LIGHT
L.P.	LOW POINT
MAINT.	MAINTENANCE
MFR.	MANUFACTURER
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MEN	MEN'S TOILET
MTL./MET.	METAL
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MUL.	MULLION
NOM.	NOMINAL
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. OR #	NUMBER
OFOI	OWNER FURNISH, OWNER INSTALL
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFF.	OFFICE
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
OPP. H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
PTD.	PAINTED
PR.	PAIR
PART.	PARTITION
PED.	PEDESTRIAN
PLAS.	PLASTER
P. LAM.	PLASTIC LAMINATE
PL	PLATE
PM	PRESSED METAL
PLYWD.	PLYWOOD
PT.	POINT
Q.T.	QUARRY TILE
RAD.	RADIUS
R.W.L.	RAIN WATER LEADER
RE:	REFER TO
REFL.	REFLECTED
REINF.	REINFORCING
REQ.	REQUIRED
REV.	REVISED
R.	RISER
R.D.	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING
SCHED.	SCHEDULE
SEAL.	SEALANT
SECT.	SECTION
S.SK.	SERVICE SINK
SHT.	SHEET
SIM.	SIMILAR
SL./SLP.	SLOPE
S.C.	SOLID CORE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL/STRUCTURE
SYM.	SYMMETRICAL
S.STL	STAINLESS STEEL
TEL.	TELEPHONE
TEMP.	TEMPORARY/TEMPERED
THK.	THICK (NESS)
T & G	TONGUE AND GROOVE
T/CONC.	TOP OF CONCRETE
T/CURB	TOP OF CURB
T.O.P.	TOP OF PLATE
T/WALL	TOP OF WALL
T.	TREAD
TYP.	TYPICAL
UNF.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VAR.	VARY OR VARIES
VERT.	VERTICAL
V.T.R.	VENT THROUGH ROOF
W/	WITH
WD.	WOOD
WP.	WATERPROOF
WSCT.	WAINSCOT
W/O	WITHOUT
W.P.	WORKING POINT
W.R.	WATER RESISTANT

INDEX OF DRAWINGS

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SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, LEGENDS AND DRAWING INDEX

G001

MASTER KEYNOTE LIST – (APPLIES TO ARCHITECTURAL DRAWINGS ONLY – NOT ALL KEYNOTES APPLY TO THIS FACILITY)

DIVISION 1 GENERAL REQUIREMENTS

DIVISION 2 SITEWORK

02200 EARTHWORK

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
02200.C0 SAND

02512 ZERO VOIDS ASPHALT PAVING

02512.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)

02513 ASPHALT CONCRETE PAVING

02513.A0 ASPHALT CONCRETE PAVING

02822 CHAIN LINK FENCES & GATES

02822.A1 CANTILEVERED GATE
02822.B1 2" ø GATE FRAME
02822.C1 NEW 6' HIGH CHAIN LINK FENCE – SEE CIVIL
02822.D1 TENSION TIE WIRE
02822.E1 LINE POSTS @ 10'-0" O.C.
02822.F1 2" DIAMOND MESH STEEL FABRIC

02831 HORIZONTAL SLIDING GATE OPERATORS

02831.A1 PHYSICAL TRAVEL STOP
02831.B1 HYDRAULIC SLIDE GATE OPERATOR W/AUDIO ALARM
02831.C1 UNDERGROUND OBSTRUCTION LOOP
02831.D1 GATE SENSORS
02831.E1 KEY PAD ACCESS ON PEDESTAL
02831.F1 CARD READER ON PEDESTAL
02831.G1 FIRE ACCESS & KNOX BOX ON PEDESTAL
02831.H1 GATE RECEIVER POCKET

DIVISION 3 CONCRETE

03053 CONCRETE WATER PROOFING ADMIXTURE

03053.A0 CONCRETE WATER PROOFING ADMIXTURE

03054 OLIOPHOBIC TOPICAL CONCRETE SEALER

03054.A0 OLIOPHOBIC TOPICAL SEALER

03300 CAST-IN-PLACE CONCRETE

03300.A0 CONCRETE – SLAB ON GRADE
03300.A1 CONCRETE SLAB-ON-GRADE – SEE STRUCTURAL
03300.A2 CONCRETE SLAB-ON-GRADE (THICKNESS)
03300.B1 CONCRETE SLAB – SEE STRUCTURAL
03300.B2 CONCRETE SLAB (THICKNESS)
03300.C0 FOOTING
03300.C1 FOOTING – SEE STRUCTURAL
03300.D0 CONCRETE PAD
03300.E0 RETAINING WALL
03300.F0 CAST-IN-PLACE REINFORCED CONCRETE
03300.G0 CONCRETE OVER METAL DECK – SEE STRUCTURAL
03300.H0 FOUNDATION WALL, SEE STRUCTURAL
03300.H1 CONCRETE PIER – SEE STRUCTURAL
03300.J0 REINFORCING
03300.J1 REINFORCING – SEE STRUCTURAL
03300.J2 #4 BARS CONTINUOUS (QUANTITY)
03300.J3 #5 BARS CONTINUOUS (QUANTITY)
03300.K1 THICKENED SLAB – SEE STRUCTURAL
03300.L1 30# FELT
03300.M1 MOISTURE BARRIER
03300.N0 CONCRETE CURB
03300.P3 CONTROL JOINT – SEE STRUCTURAL
03300.P4 CONSTRUCTION JOINT
03300.P6 CHAMFER JOINT
03300.P7 SAWCUT CONSTRUCTION JOINT, TYP.
03300.T1 CONCRETE @ STAIR TREAD

DIVISION 5 METALS

05120 STRUCTURAL STEEL

05120.A1 STEEL BEAM – SEE STRUCTURAL – GALVANIZED
05120.B1 STEEL COLUMN – SEE STRUCTURAL – GALVANIZED
05120.C1 TUBE STEEL BEAM – SEE STRUCTURAL – GALVANIZED
05120.D1 TUBE STEEL COLUMN – SEE STRUCTURAL

05310 STEEL DECK

05310.A1 METAL DECK – SEE STRUCTURAL

05400 COLD-FORMED METAL FRAMING

05400.A0 STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SIZE, SPACING AND GAUGE
05400.A1 6" STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SPACING AND GAUGE
05400.A2 3 5/8" STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SPACING AND GAUGE
05400.X1 STEEL STUD
05400.X2 STEEL TRACK
05400.X3 STEEL JOIST – SEE STRUCTURAL

05500 METAL FABRICATIONS

05500.A1 ANGLE – SEE STRUCTURAL
05500.A2 STEEL ANGLE (SIZE) – GALVANIZED
05500.B0 CLIP ANGLE
05500.B2 CLIP ANGLE (SIZE)
05500.C1 SHEET METAL ANGLE – 22 GA. – GALVANIZED (SIZE)
05500.D0 CHANNEL (SIZE)
05500.D1 CHANNEL – SEE STRUCTURAL
05500.D2 HAT CHANNEL (SIZE)
05500.E0 PLATE (SIZE)
05500.E1 PLATE – SEE STRUCTURAL
05500.E2 PLATE (SIZE) – GALVANIZED
05500.E3 BENT PLATE – SEE STRUCTURAL
05500.F1 THRU BOLT (DIAMETER)
05500.G1 BENT BAR TAB (THICKNESS)
05500.G2 BARTAB (THICKNESS)

05500 METAL FABRICATIONS CONTINUED

05500.G2 BARTAB (THICKNESS)
05500.H1 LAG BOLTS (DIAMETER)
05500.J1 PIPE BOLLARD (DIAMETER) – GALVANIZED & PAINTED
05500.K0 TUBE STEEL SUPPORTS – SEE STRUCTURAL
05500.K1 TUBE STEEL (SIZE, SPACING)
05500.L1 HILTI X-EDNI SHOT PIN (SPACING)
05500.M1 CHECKERED PLATE (SIZE) GALVANIZED
05500.P0 ANCHOR BOLT(S)
05500.P1 ANCHOR BOLTS (DIAMETER, SPACING)
05500.P2 EPOXY ANCHOR (SIZE)

05500 METAL FABRICATIONS (CONT.)

05500.V0 FLOOR PLATE
05500.X1 STEEL STUD – SEE STRUCTURAL
05500.X2 STEEL RUNNER – SEESTRUCTURAL
05500.Y0 AIR DUCT SCREEN
05500.Y1 AIR DUCT SCREEN – SEE MECHANICAL – PAINTED
05500.Z0 CHAIN – GALVANIZED

05510 METAL STAIRS

05510.A1 LADDER RUNGS
05510.B0 LADDER RAILS
05510.C0 LADDER MOUNTING BRACKET
05510.D1 RUBBER SHOE AT BOTTOM OF EACH RAIL
05510.E1 NON SKID SURFACE @ NOSING
05510.F0 STEEL STRINGER – (SIZE)
05510.F1 STEEL STRINGER – (SIZE) – GALVANIZED
05510.G1 3/16" STEEL CLOSURE PLATE – GALVANIZED
05510.H0 CONC. FILLED METAL PAN STAIR – GALVANIZED
05510.H1 PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD – (SIZE) – GALVANIZED
05510.J1 METAL PAN STAIR SUPPORT – (SIZE) – GALVANIZED
05510.J2 PAN ANCHORAGE – (SIZE) – GALVANIZED
05510.K1 STEEL CHANNEL DECK SUPPORT – GALVANIZED

05521 PIPE & TUBE RAILINGS

05521.A1 1 1/2" O.D. STEEL GUARDRAIL
05521.A2 PIPE GUARDRAIL (DIAMETER) – GALVANIZED
05521.A3 1 1/2" O.D. PIPE GUARDRAIL – GALVANIZED
05521.B1 1 1/2" O.D. HANDRAIL
05521.B2 PIPE HANDRAIL (DIAMETER) – GALVANIZED
05521.B3 1 1/2" O.D. PIPE HANDRAIL – GALVANIZED
05521.C2 ESCUTCHEON WITH EASED EDGES (SIZE)
05521.D1 PIPE RAIL SUPPORT – GALVANIZED
05521.E1 1" I.D. PIPE RAILING ANCHOR – GALVANIZED
05521.F1 1/2" DIA. THRU BOLT

05530 GRATINGS

05530.A0 TRENCH FRAME – GALVANIZED
05530.A1 STEEL GRATE 22-W-4 (SIZE) GALVANIZED
05530.B0 ALUMINUM BAR PANELS
05530.C1 METAL GRATE PANEL – GALV.
05530.C2 METAL GRATE TREAD – GALV.

DIVISION 6 WOOD AND PLASTICS

06105 MISCELLANEOUS CARPENTRY

06105.L2 BLOCKING AS REQUIRED
06105.P1 2X4
06105.P2 2X6
06105.P6 4X4
06105.P9 2 x FRAMING, FIRE TREATED
06105.P10 PRESSURE TREATED WOOD TIMBER (SIZE)
06105.Q2 SHIM AS REQUIRED
06105.R2 SHEATHING – PLYWOOD (THICKNESS) GRADE (SIZE)
06105.R3 PLYWOOD PANEL (THICKNESS)
06105.V1 EXTERIOR GRADE PLYWOOD (THICKNESS)
06105.V6 PEGBOARD (THICKNESS)
06105.Z0 ANCHOR AS REQUIRED

06402 INTERIOR ARCHITECTURAL WOODWORK

06402.A0 SILL
06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)
06402.C1 PAINT GRADE WOOD CAP (THICK)
06402.E1 WIRE PULL
06402.F1 PROVIDE WHITE MELAMINE FINISH @ ALL INTERIOR SURFACES
06402.H0 SHELF(VES)
06402.H1 ADJUSTABLE SHELVES (FINISH)
06402.H2 SHELVING (DEPTH)
06402.K0 BASE UNIT (FINISH)
06402.K2 BASE UNIT W/ADJ. SHELF(VES) (FINISH)
06402.K3 BASE UNIT W/DRAWERS (FINISH)
06402.K4 BASE UNIT W/DRAWER & ADJ. SHELF(VES) (FINISH)
06402.L2 WALL UNIT W/ADJ. SHELF(VES) (FINISH)
06402.P0 COUNTERTOP
06402.P2 COUNTERTOP – P. LAM. ON 3/4" PLYWOOD
06402.X0 WORKBENCH (DEPTH)

06651 SOLID SURFACE FABRICATIONS

06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07122 HOT FLUID-APPLIED WATERPROOFING

07122.A0 HOT FLUID APPLIED MEMBRANE
07122.B0 RIGID INSULATION BOARD (THICKNESS)

07210 BUILDING INSULATION

07210.A1 BATT INSULATION (R-VALUE)
07210.B1 RIGID INSULATION (THICKNESS)
07210.D0 VAPOR BARRIER
07210.E0 FOUNDATION WALL INSULATION (THICKNESS)

07729 ROOF SNOW GUARDS

07729.A0 STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM

07901 JOINT SEALANTS

07901.A0 CONT. SEALANT
07901.B0 ASPHALT SATURATED FIBERBOARD
07901.C0 CONT. CAULK
07901.D0 JOINT FILLER
07901.G0 BACKER ROD
07901.H1 5/8" BEAD OF DE NEFF SWELLSEAL WA MASTIC
07901.H2 CONCENTRATED DRY PAC
07901.H3 CONCENTRATED SLURRY COAT

DIVISION 8 DOORS AND WINDOWS

08111 STANDARD STEEL DOORS AND FRAMES

08111.A0 PRESSED METAL FRAME
08111.A1 GROUT-FILLED PRESSED METAL FRAME
08111.B0 HOLLOW METAL DOOR
08111.C0 JAMB ANCHOR

08360 SECTIONAL OVERHEAD DOORS

08360.A0 HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0 WEATHERSTRIPPING
08360.D0 DOOR GUIDE

08521 HORIZONTAL SLIDING VINYL (PVC) WINDOWS

08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

08710 DOOR HARDWARE

08710.A0 THRESHOLD
08710.B0 DOOR SWEEP
08710.C0 WEATHERSTRIPPING

08800 GLAZING

08800.C0 WIRE GLASS
08800.G1 CLEAR INSULATING GLASS (SIZE)
08800.G2 TEMPERED GLASS
08800.G3 OPAQUE INSULATING GLASS

DIVISION 9 FINISHES

09255 GYPSUM BOARD ASSEMBLIES

09255.A1 GYPSUM BOARD (THICKNESS)
09255.A2 WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.B2 TYPE 'X' GYPSUM BOARD (THICKNESS)
09255.C3 CEMENT BOARD (THICKNESS)
09255.H0 METAL STUD
09255.H1 METAL STUDS (SIZE, SPACING)
09255.J0 METAL RUNNER
09255.K0 DOUBLE STUDS
09255.K1 DOUBLE STUDS (GAGE)
09255.L1 7/8" X 1-3/8" METAL ANGLE
09255.L2 2-1/2" X 2-1/2" METAL ANGLE
09255.M2 METAL CORNER BEAD (TYP)
09255.P0 Z-FURRING CHANNEL
09255.Q0 7/8" METAL FURRING CHANNEL
09255.R2 CHANNEL (SIZE, SPACING)
09255.S1 8 GA. WIRE HANGERS (SPACING)
09255.S2 18 GA. WIRE TIES
09255.S3 18 GA. METAL MOUNTING STRIPS
09255.S4 SPLAY WIRE (SIZE)
09255.S5 VERTICAL WIRES (SIZE)
09255.U1 SUSPENDED CEILING SYSTEM
09255.U2 MAIN TEE
09255.U4 CONDUIT COMPRESSION BRACE
09255.V0 EDGE TRIM (TYP)
09255.V2 LC-BEAD (PREFERRED USG 200-A TRIM)
09255.V4 VINYL TRIM

09300 TILE

09300.A1 FLOOR TILE – SEE FINISH SCHED.
09300.B1 WALL TILE – SEE FINISH SCHED.
09300.C0 TILE BASE
09300.D1 BULLNOSE TRIM UNIT
09300.E1 1/2" x 6" TILE TRIM PIECE – SEE FINISH SCHED.
09300.G1 MORTAR BED
09300.G4 WATERPROOF MEMBRANE

09511 ACOUSTICAL PANEL CEILINGS

09511.A0 LAY-IN ACOUSTICAL CEILING SYSTEM
09511.A1 HEAVY DUTY "T" BAR GRID SYSTEM
09511.A2 CEILING SUSPENSION SYSTEM – MAIN RUNNER
09511.A3 CEILING SUSPENSION SYSTEM – CROSS RUNNER
09511.B1 VERTICAL WIRE HANGER (SIZE)
09511.B2 BRACING WIRE (SIZE)
09511.C1 COMPRESSION STRUTS
09511.D1 METAL ANGLE EDGE
09511.E1 LAY IN ACOUSTICAL CEILING PANEL

09660 RESILIENT TILE FLOORING

09660.A1 VINYL COMPOSITION TILE
09660.B1 VINYL TRANSITION STRIP

09678 RESILIENT WALL BASE AND ACCESSORIES

09678.E1 RUBBER BASE (SIZE)

09900 PAINTING

09900.A1 PAINT – SEE FINISH SCHED.
09900.B1 GALVANIZED METAL PRIMER

DIVISION 10 SPECIALTIES

10100 VISUAL DISPLAY BOARDS

10100.C0 MARKER BOARD

10425 SIGNS

10425.A0 ROOM SIGNAGE
10425.A1 OIL SIGNAGE
10425.B1 WELDING SIGNAGE
10425.C1 ACCESSIBLE SIGNAGE
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE

10500 METAL LOCKERS AND STORAGE CABINETS

10500.A0 METAL LOCKERS (WIDTH)
10500.B0 METAL STORAGE CABINETS

10522 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

10522.A0 FIRE EXTINGUISHER

10800 TOILET AND BATH ACCESSORIES

10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0 TOILET TISSUE DISPENSER
10800.C1 RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0 MOP RACK
10800.E0 GRAB BAR
10800.E1 GRAB BAR (SHOWER)
10800.F0 ROBE HOOK
10800.F1 DOUBLE PRONG ROBE HOOK
10800.H0 SOAP DISPENSER
10800.H1 SOAP DISH
10800.P1 SHOWER CURTAIN ROD
10800.P2 SHOWER CURTAIN
10800.R1 FRAMED MIRROR (SIZE)
10800.T1 FOLDING SHOWER SEAT
10800.T0 METAL SHELF (SIZE)

DIVISION 12 FURNISHINGS

12511 HORIZONTAL LOUVER BLINDS

12511.A0 HORIZONTAL LOUVER BLINDS

DIVISION 13 SPECIAL CONSTRUCTION

13125 METAL ARCH BUILDING SYSTEM

13125.A0 METAL ARCH BUILDING SYSTEM
13125.B0 STANDING SEAM METAL ROOF
13125.B1 STANDING SEAM METAL ROOF RIDGE
13125.B2 STANDING SEAM METAL CANOPY
13125.C0 METAL RAIN GUTTER W/DOWNSPOUTS
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.C3 GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.D0 METAL FLASHING
13125.D1 METAL DRIP FLASHING
13125.D2 METAL HEAD FLASHING
13125.D3 METAL SILL FLASHING
13125.D4 METAL FLASHING, FINISH TO MATCH ROOF PANELS
13125.D5 RIDGE FLASHING, TO MATCH ROOF PANELS
13125.D6 DOOR HEAD FLASHING
13125.D7 JAMB FLASHING
13125.D8 CONTINUOUS PRE-FINISHED SHEET METAL CLOSURE
13125.D9 FLEXIBLE ROOF RIDGE
13125.D10 ROOF RIDGE SUPPORT
13125.E0 METAL TRIM
13125.E1 JAMB TRIM
13125.E2 PANEL TRIM
13125.E3 RAKE TRIM
13125.E4 RAKE SLIDE
13125.E5 METAL EAVE CLOSURE
13125.E6 WALL CLOSURE
13125.E7 METAL OUTSIDE CLOSURE
13125.E8 CORNER TRIM
13125.E9 FRAMED OPENING HEADER
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.F2 BLIND RIVET
13125.F3 POP RIVET
13125.F4 METAL WALL PANEL TRIM
13125.G0 STANDING SEAM METAL FACIA
13125.H0 BREAK METAL
13125.H1 METAL ANGLE
13125.H2 HIGH RAKE SUPPORT ANGLE
13125.H3 RAKE ANGLE
13125.H4 4" x 4" CONT. ANGLE
13125.H5 BACKUP PLATE ANGLE
13125.H6 EAVE SUPPORT ANGLE
13125.H7 EAVE STRUT

13125 METAL ARCH BUILDING SYSTEM (CONT.)

13125.J0 STRUCTURAL MEMBER – PRIMED AND PAINTED
13125.J1 STRUCTURAL GIRT – PAINTED
13125.J2 ROOF PURLIN – PAINTED
13125.J3 STRUCTURAL GIRT
13125.J4 ROOF PURLIN – PRIMED
13125.J5 STRUCTURAL GIRT – PRIMED
13125.K0 CLIP
13125.K1 LOW PANEL CLIP
13125.L1 STEEL COLUMN – PAINTED
13125.L2 STEEL COLUMN – GALV. – PAINTED
13125.L3 STEEL COLUMN – GALVANIZED
13125.L4 STEEL COLUMN – PRIMED AND PAINTED
13125.L5 STEEL COLUMN – PRIMED
13125.M1 STEEL BEAM – PAINTED
13125.M2 STEEL BEAM – GALV. – PAINTED
13125.M3 STEEL BEAM – GALVANIZED
13125.M4 STEEL BEAM – PRIMED AND PAINTED
13125.M5 STEEL BEAM – PRIMED
13125.N1 ANCHOR
13125.N2 FASTENER (SPACING)
13125.P1 DOUBLE BEAD TAPE SEALER
13125.P2 SEALANT
13125.P3 THERMAL BREAK
13125.Q0 METAL VENT
13125.Q1 VENT MATERIAL
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

DIVISION 15 EQUIPMENT

15000 MECHANICAL

15050.A1 MECH. PENETRATIONS
15250.A1 PIPE INSULATION AT ALL EXPOSED PIPE
15410.A0 URINAL
15410.A1 URINAL, ACCESSIBLE
15410.B0 SINK FAUCET
15410.B1 SINK FAUCET W/ADA LEVER HANDLES
15410.C0 UTILITY SINK
15410.D1 FLOOR SINK
15410.E0 TRENCH DRAIN
15410.E1 DRAIN W/ SEDIMENT BUCKET
15410.E2 FLOOR DRAIN
15410.F0 TOILET
15412.A0 EMERGENCY SHOWER & EYE WASH
15452.A1 DRINKING FOUNTAIN
15486.A1 FUEL FIRED WATER HEATER
15490.A0 WASTE OIL PUMP
15490.B0 WASTE OIL CARTS
15490.C0 WASTE OIL PIT
15490.D0 600 GAL WASTE OIL TANK – O.F.C.I.
15491.A0 AIR COMPRESSOR
15491.B0 OVERHEAD LUBE REEL
15491.C0 OVERHEAD HOSE REEL
15600.A0 RADIANT HEATING SYSTEM
15611.A1 GAS FIRED FURNACE
15670.A1 CONDENSER UNIT – SEE MECHANICAL
15838.A0 EXHAUST FAN – SEE MECHANICAL
15838.A1 EXHAUST FAN VENT
15861.A1 MECHANICAL DUCTWORK SEE MECHANICAL
15887.A1 LOUVER W/ BIRD SCREEN
15887.B1 INTAKE GRAVITY HOOD – SEE MECHANICAL

DIVISION 16 ELECTRICAL

16000 ELECTRICAL

16129.A0 CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS
16210.A1 ELECTRICAL METER – SEE ELECTRICAL DRAWINGS
16411.A1 EMERGENCY DISCONNECT – SEE ELECTRICAL
16442.A0 ELECTRICAL PANEL
16510.A0 INTERIOR LIGHTS
16510.B0 WALL MOUNTED INTERIOR LIGHTS
16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS
16520.B3 EXTERIOR FLOOD LIGHTS – MOUNT TO STEEL COLUMN

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
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F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

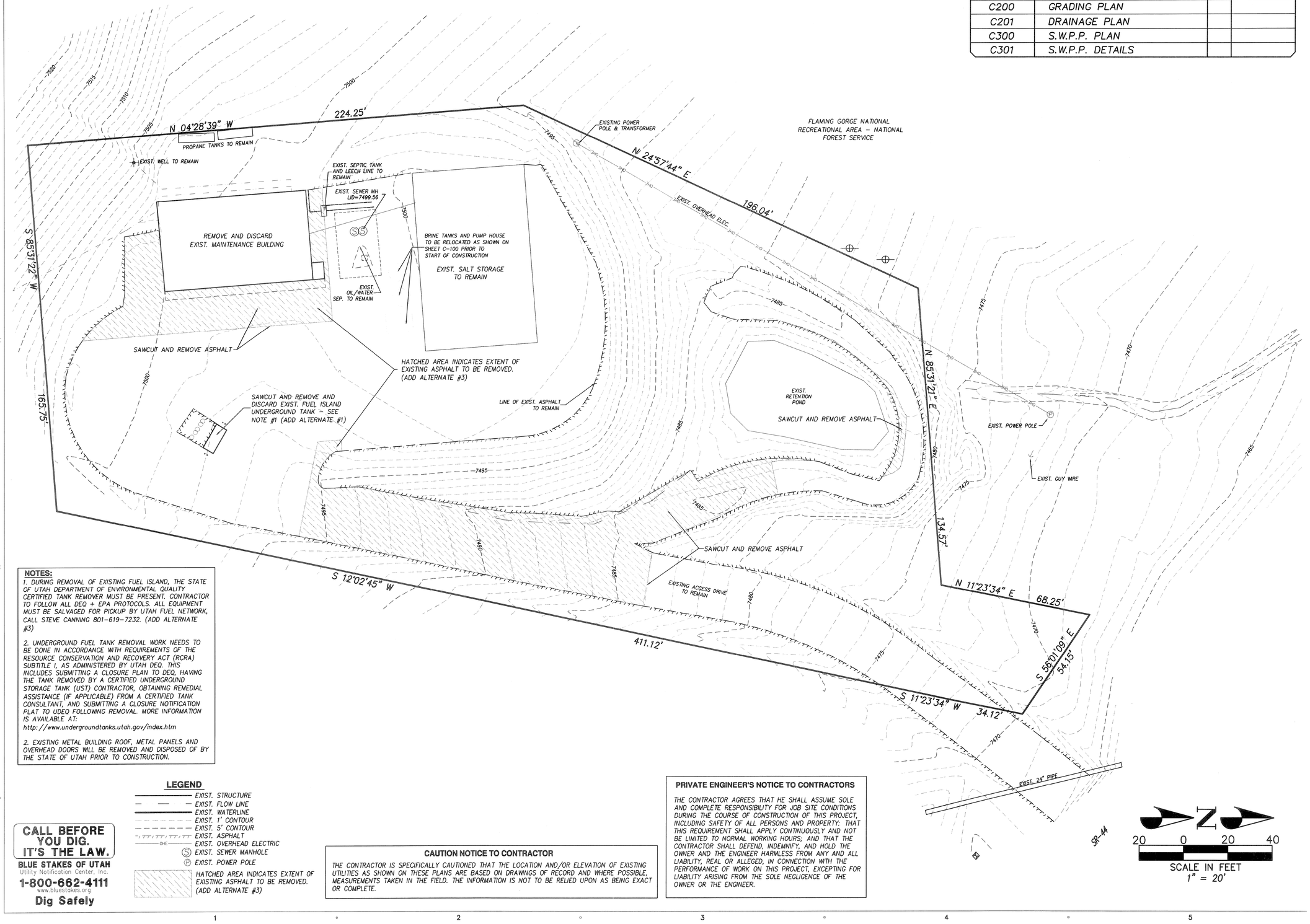
DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

MASTER KEYNOTE LIST

G002

INDEX OF SHEETS



NOTES:

1. DURING REMOVAL OF EXISTING FUEL ISLAND, THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY CERTIFIED TANK REMOVER MUST BE PRESENT. CONTRACTOR TO FOLLOW ALL DEQ + EPA PROTOCOLS. ALL EQUIPMENT MUST BE SALVAGED FOR PICKUP BY UTAH FUEL NETWORK, CALL STEVE CANNING 801-619-7232. (ADD ALTERNATE #3)

2. UNDERGROUND FUEL TANK REMOVAL WORK NEEDS TO BE DONE IN ACCORDANCE WITH REQUIREMENTS OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) SUBTITLE I, AS ADMINISTERED BY UTAH DEQ. THIS INCLUDES SUBMITTING A CLOSURE PLAN TO DEQ, HAVING THE TANK REMOVED BY A CERTIFIED UNDERGROUND STORAGE TANK (UST) CONTRACTOR, OBTAINING REMEDIAL ASSISTANCE (IF APPLICABLE) FROM A CERTIFIED TANK CONSULTANT, AND SUBMITTING A CLOSURE NOTIFICATION PLAT TO UDEQ FOLLOWING REMOVAL. MORE INFORMATION IS AVAILABLE AT:
http://www.undergroundtanks.utah.gov/index.htm

2. EXISTING METAL BUILDING ROOF, METAL PANELS AND OVERHEAD DOORS WILL BE REMOVED AND DISPOSED OF BY THE STATE OF UTAH PRIOR TO CONSTRUCTION.

LEGEND

- EXIST. STRUCTURE
- EXIST. FLOW LINE
- EXIST. WATERLINE
- EXIST. 1' CONTOUR
- EXIST. 5' CONTOUR
- EXIST. ASPHALT
- OHE — EXIST. OVERHEAD ELECTRIC
- (S) EXIST. SEWER MANHOLE
- (P) EXIST. POWER POLE
- HATCHED AREA INDICATES EXTENT OF EXISTING ASPHALT TO BE REMOVED. (ADD ALTERNATE #3)

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CAUTION NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON DRAWINGS OF RECORD AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

N

20 0 20 40

SCALE IN FEET
1" = 20'

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 +/-
GREENDALE, UTAH

DESIGNER

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1135 South West Temple, Ste. A
Salt Lake City, UT 84101
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PEPG ENGINEERING, L.L.C.
421 W. 12300 S. #400 • DRAPER, UT 84020
PH: (801) 562-2521 • FAX: (801) 562-2551

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 272207
DARWIN R. SMITH
STATE OF UTAH
2-1-2008

ISSUE

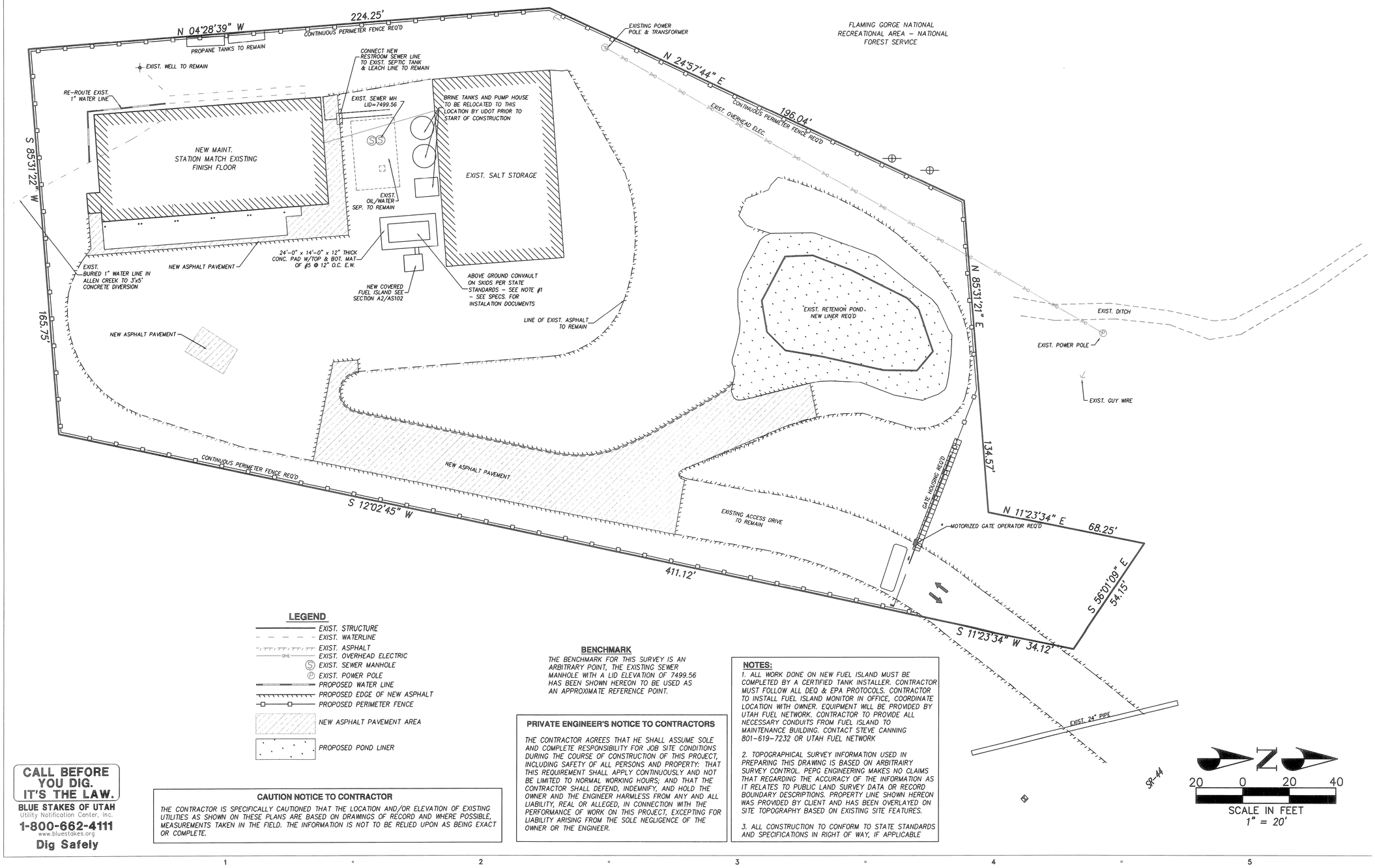
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
PEPG PROJECT NO:	6600.0712
DRAWN BY:	RSL
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	FEBRUARY 2008

SHEET TITLE

SITE PLAN DEMOLITION

AD101



LEGEND

- EXIST. STRUCTURE
- EXIST. WATERLINE
- EXIST. ASPHALT
- OHE — EXIST. OVERHEAD ELECTRIC
- (S) EXIST. SEWER MANHOLE
- (P) EXIST. POWER POLE
- PROPOSED WATER LINE
- PROPOSED EDGE OF NEW ASPHALT
- PROPOSED PERIMETER FENCE
- NEW ASPHALT PAVEMENT AREA
- PROPOSED POND LINER

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS AN ARBITRARY POINT, THE EXISTING SEWER MANHOLE WITH A LID ELEVATION OF 7499.56 HAS BEEN SHOWN HEREON TO BE USED AS AN APPROXIMATE REFERENCE POINT.

NOTES:

1. ALL WORK DONE ON NEW FUEL ISLAND MUST BE COMPLETED BY A CERTIFIED TANK INSTALLER. CONTRACTOR MUST FOLLOW ALL DEQ & EPA PROTOCOLS. CONTRACTOR TO INSTALL FUEL ISLAND MONITOR IN OFFICE, COORDINATE LOCATION WITH OWNER. EQUIPMENT WILL BE PROVIDED BY UTAH FUEL NETWORK. CONTRACTOR TO PROVIDE ALL NECESSARY CONDUITS FROM FUEL ISLAND TO MAINTENANCE BUILDING. CONTACT STEVE CANNING 801-619-7232 OR UTAH FUEL NETWORK

2. TOPOGRAPHICAL SURVEY INFORMATION USED IN PREPARING THIS DRAWING IS BASED ON ARBITRAIRY SURVEY CONTROL. PEPG ENGINEERING MAKES NO CLAIMS THAT REGARDING THE ACCURACY OF THE INFORMATION AS IT RELATES TO PUBLIC LAND SURVEY DATA OR RECORD BOUNDARY DESCRIPTIONS. PROPERTY LINE SHOWN HEREON WAS PROVIDED BY CLIENT AND HAS BEEN OVERLAYED ON SITE TOPOGRAPHY BASED ON EXISTING SITE FEATURES.

3. ALL CONSTRUCTION TO CONFORM TO STATE STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY, IF APPLICABLE

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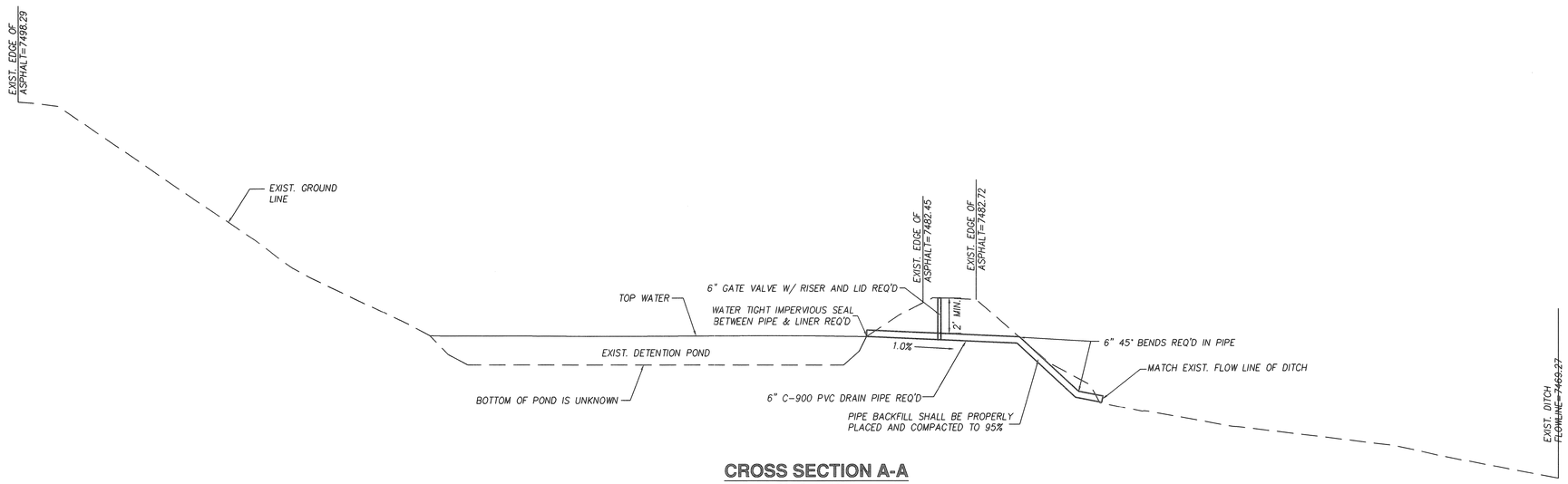
DATE:	FEBRUARY 2008

SHEET TITLE

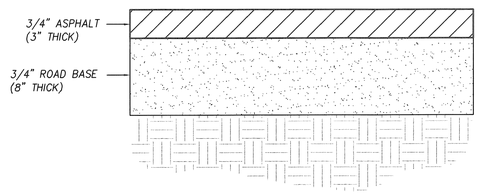
SITE & UTILITY PLAN

C100



CROSS SECTION A-A

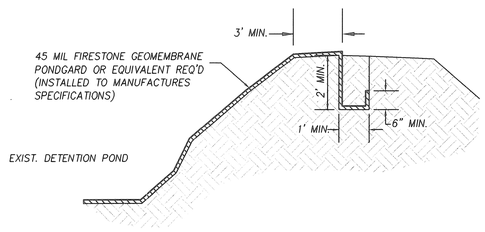
SCALE: 1"=10'
VERTICAL SCALE: 1"=10'



NOTE: MATCH EXISTING PAVEMENT SECTION IF GREATER THAN PAVEMENT SECTION SHOWN.

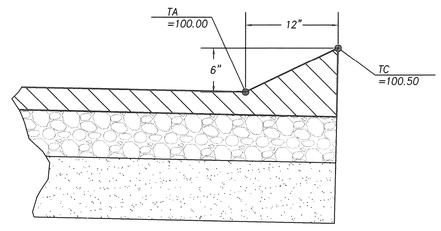
PAVEMENT SECTION

N.T.S.



POND LINER DETAIL

N.T.S.



NOTE: RAISED PORTION SHALL BE HOT MIX ASPHALT PLACED AS PART OF THE ROAD PAVEMENT.

ASPHALT CURB DETAIL

N.T.S.

CLIENT

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SR-44 @ M.P. 0.5 +/-
GREENDALE, UTAH

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No. 272207
DARRIN R. SMITH
12-1-2008
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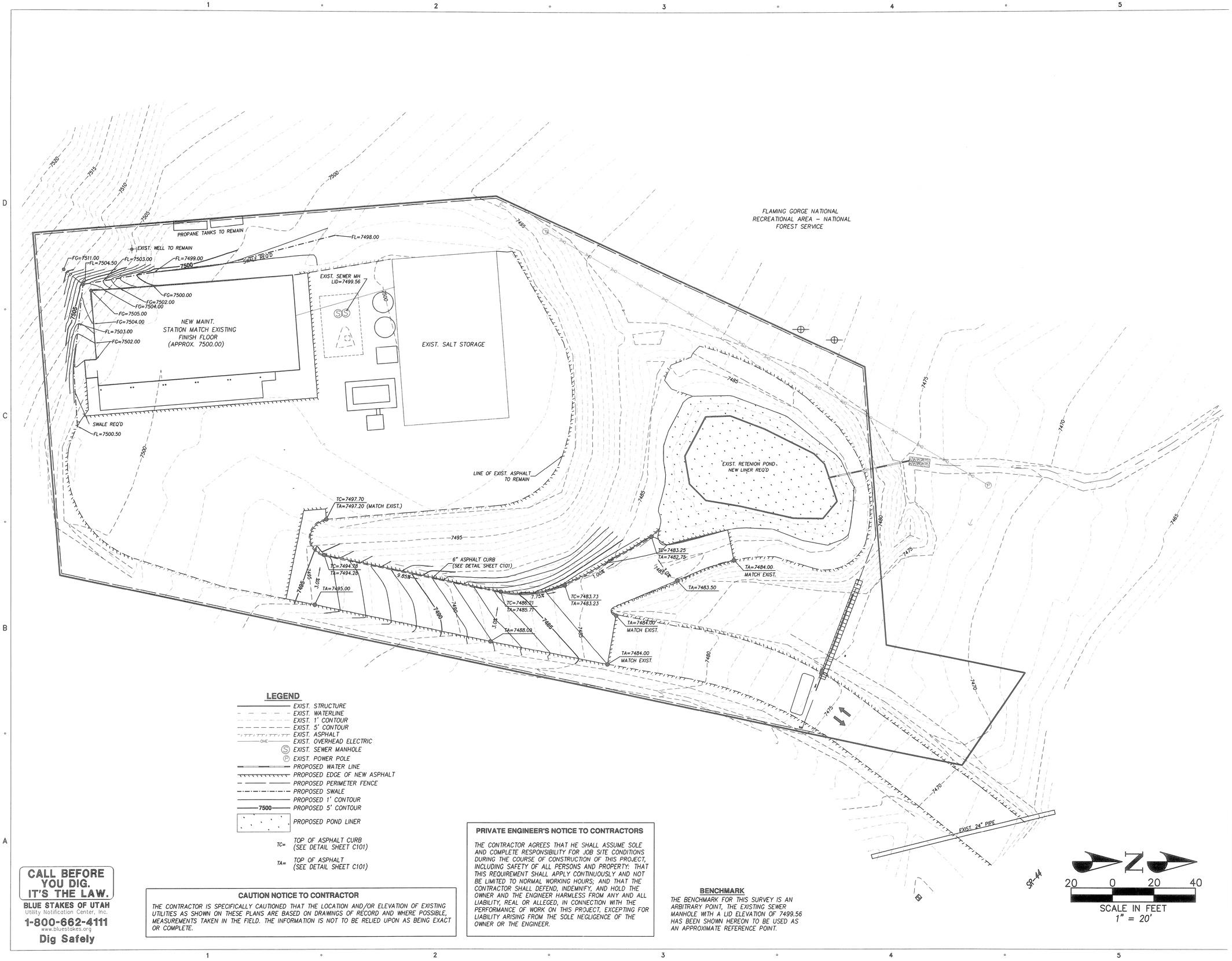
SHEET TITLE

SITE & DRAINAGE DETAILS

C101



LEGEND

- EXIST. STRUCTURE
- EXIST. WATERLINE
- EXIST. 1' CONTOUR
- EXIST. 5' CONTOUR
- EXIST. ASPHALT
- OHE — EXIST. OVERHEAD ELECTRIC
- (S) EXIST. SEWER MANHOLE
- (P) EXIST. POWER POLE
- PROPOSED WATER LINE
- PROPOSED EDGE OF NEW ASPHALT
- PROPOSED PERIMETER FENCE
- PROPOSED SWALE
- PROPOSED 1' CONTOUR
- 7500 — PROPOSED 5' CONTOUR
- PROPOSED POND LINER
- TC= TOP OF ASPHALT CURB (SEE DETAIL SHEET C101)
- TA= TOP OF ASPHALT (SEE DETAIL SHEET C101)

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THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS AN ARBITRARY POINT, THE EXISTING SEWER MANHOLE WITH A LID ELEVATION OF 7499.56 HAS BEEN SHOWN HEREON TO BE USED AS AN APPROXIMATE REFERENCE POINT.

N
20 0 20 40
SCALE IN FEET
1" = 20'

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 +/-
GREENDALE, UTAH

DESIGNER

ARCHIPLEX GROUP
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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 272207
DARRIN R. SMITH
2-1-2008
STATE OF UTAH

ISSUE

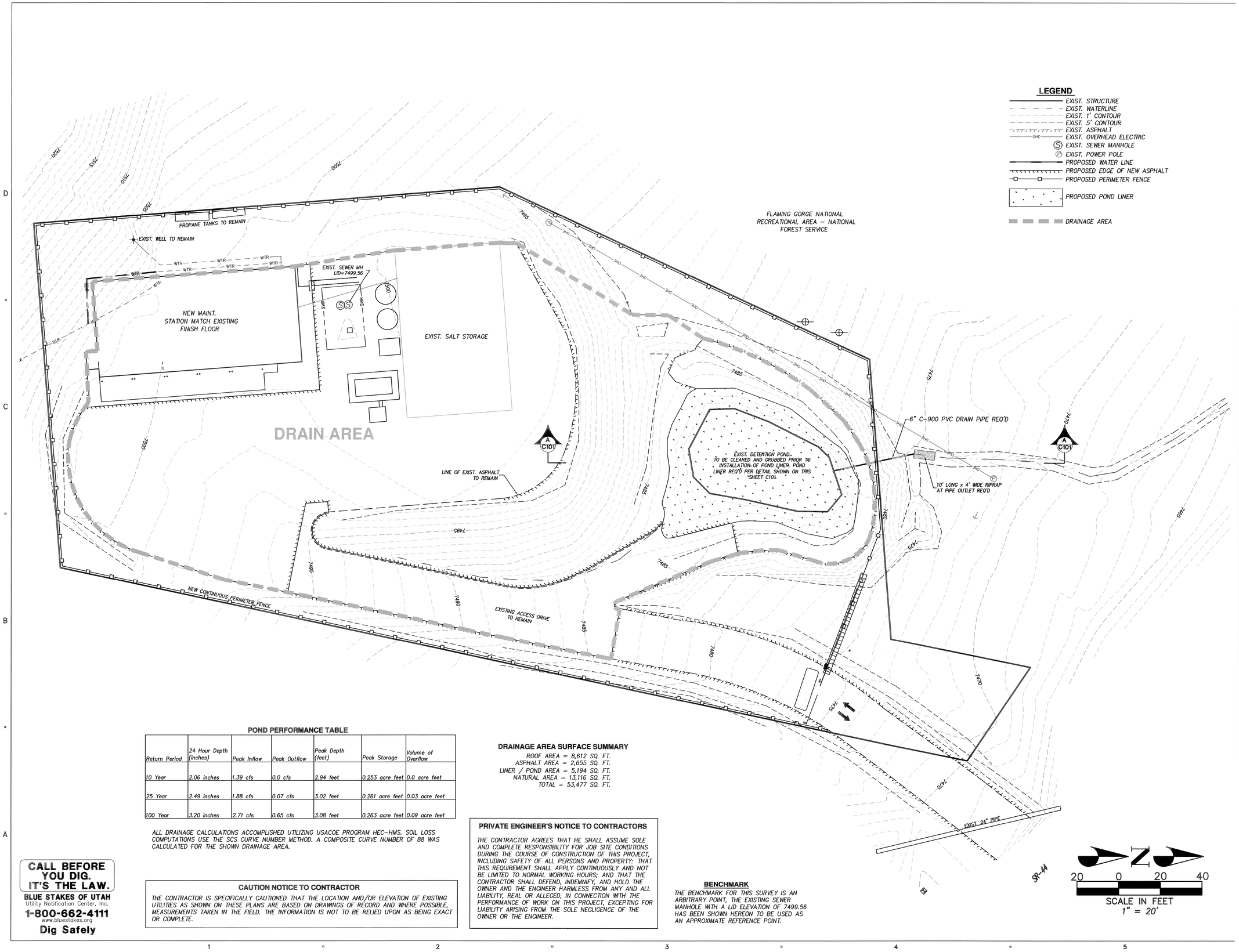
MARK	DATE	DESCRIPTION
	01-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
PEPG PROJECT NO:	6600.0712
DRAWN BY:	RSL
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	FEBRUARY, 2008

SHEET TITLE

GRADING PLAN

C200



POND PERFORMANCE TABLE

Return Period	24 Hour Depth (inches)	Peak Inflow	Peak Outflow	Peak Depth (feet)	Peak Storage	Volume of Overflow
10 Year	2.06 inches	1.39 cfs	0.0 cfs	2.94 feet	0.253 acre feet	0.0 acre feet
25 Year	2.49 inches	1.88 cfs	0.07 cfs	3.02 feet	0.261 acre feet	0.03 acre feet
100 Year	3.20 inches	2.71 cfs	0.65 cfs	3.08 feet	0.263 acre feet	0.09 acre feet

ALL DRAINAGE CALCULATIONS ACCOMPLISHED UTILIZING USACOE PROGRAM HEC-HMS. SOIL LOSS COMPUTATIONS USE THE SCS CURVE NUMBER METHOD. A COMPOSITE CURVE NUMBER OF 88 WAS CALCULATED FOR THE SHOWN DRAINAGE AREA.

DRAINAGE AREA SURFACE SUMMARY

ROOF AREA = 8,612 SQ. FT.
ASPHALT AREA = 2,655 SQ. FT.
LINER / POND AREA = 5,194 SQ. FT.
NATURAL AREA = 13,116 SQ. FT.
TOTAL = 53,477 SQ. FT.

CAUTION NOTICE TO CONTRACTOR

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BENCHMARK

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SCALE IN FEET
1" = 20'

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1-800-662-4111
www.bluestakes.org
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SR-44 @ M.P. 0.5 +/-
GREENDALE, UTAH

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 272201
DARRIN R. SMITH
4-1-2010
STATE OF UTAH

ISSUE

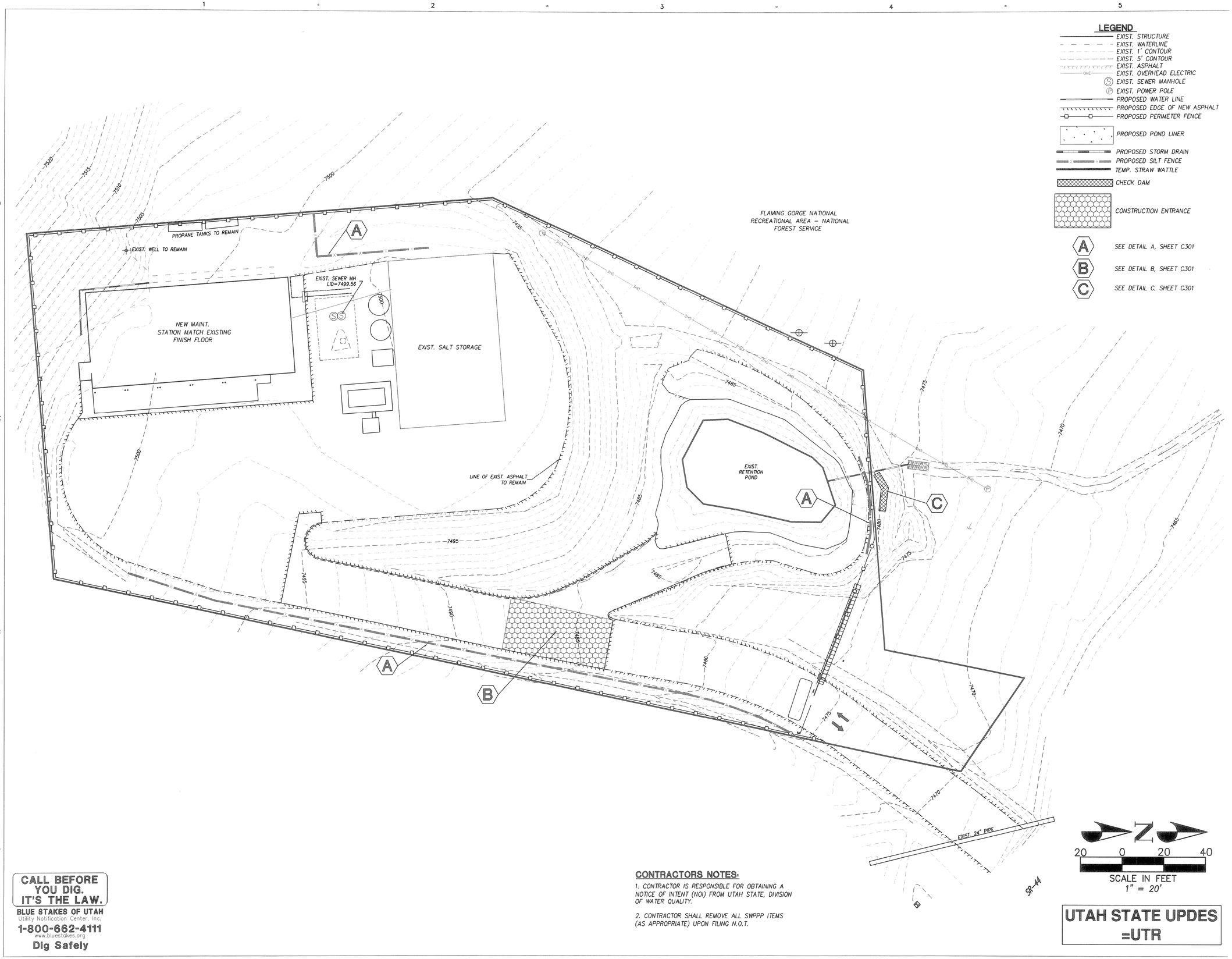
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
PEPG PROJECT NO:	6600.0712
DRAWN BY:	RSL
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	FEBRUARY, 2008

SHEET TITLE

DRAINAGE PLAN

C201



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1-800-662-4111
www.bluestakes.org
Dig Safely

CONTRACTORS NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A NOTICE OF INTENT (NOI) FROM UTAH STATE, DIVISION OF WATER QUALITY.

2. CONTRACTOR SHALL REMOVE ALL SWPPP ITEMS (AS APPROPRIATE) UPON FILING N.O.T.

UTAH STATE UPDES =UTR

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 +/-
GREENDALE, UTAH

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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER
No. 272207
DARRIN R. SMITH
STATE OF UTAH
4-1-2008

ISSUE

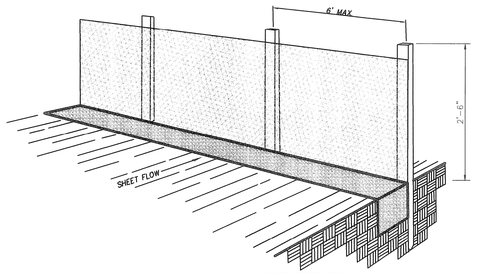
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
PEPG PROJECT NO:	6600.0712
DRAWN BY:	RSL
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	FEBRUARY, 2008

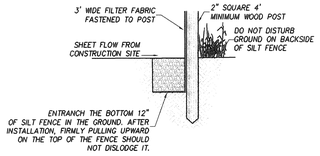
SHEET TITLE

S.W.P.P. PLAN

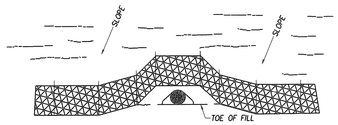
C300



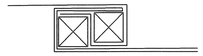
PERSPECTIVE VIEW



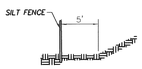
SECTION



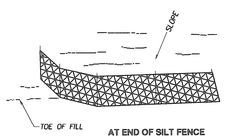
AROUND A PIPE OUTLET



SPLICES (TOP VIEW)



AT TOE OF FILL SLOPE

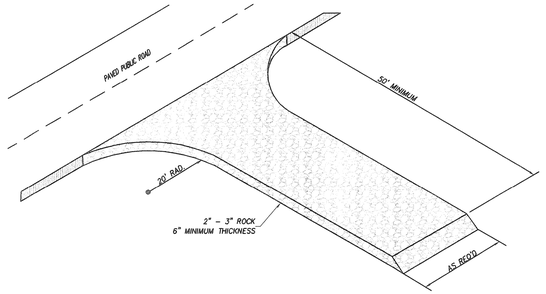


AT END OF SILT FENCE

NOTES FOR SILT FENCE:

1. WHERE PERMITTED, POSITION THE SILT FENCE 5' BEYOND THE TOP OF THE SLOPE.
2. 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.
3. WHEN EXCAVATING THE TRENCH, USE MACHINERY THAT WILL MINIMIZE DISTURBANCE.
4. TO PREVENT RUNOFF FROM FLOWING AROUND THE ENDS OF THE SILT FENCE, RUN THE ENDS OF THE FENCE UP SLOPE.
5. DO NOT PLACE SILT FENCE ACROSS POTENTIAL CONCENTRATED FLOW (E.G., PIPE OUTLETS, DRAINAGE CHANNELS, CUT DITCHES.)
6. 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.
7. MAINTAIN A PROPERLY FUNCTIONING SILT FENCE THROUGHOUT DURATION OF THE PROJECT OR UNTIL DISTURBED AREAS HAVE BEEN VEGETATED.
8. WHEN A STORM EVENT DEPOSITS SEDIMENT BEHIND THE FENCE, REMOVE THE SEDIMENT AND PLACE IT IN A STABLE AREA APPROVED BY THE ENGINEER.
9. IN AREAS THAT HAVE BEEN SEEDED AND MULCHED, REMOVE SILT FENCE UNLESS THEY ARE PROTECTING A WETLAND OR WATER BODY.

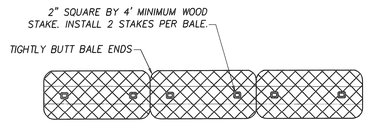
SILT FENCE INSTALLATION (A)
NOT TO SCALE



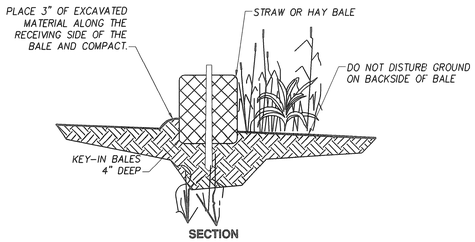
NOTES FOR STABILIZED CONSTRUCTION ENTRANCE:

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

STABILIZED CONSTRUCTION ENTRANCE (B)
NOT TO SCALE



PLAN VIEW

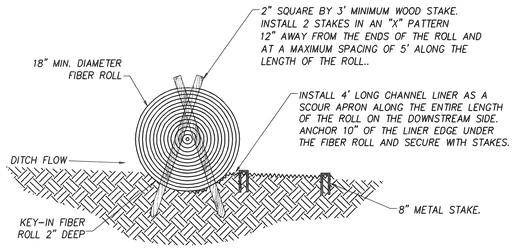


SECTION

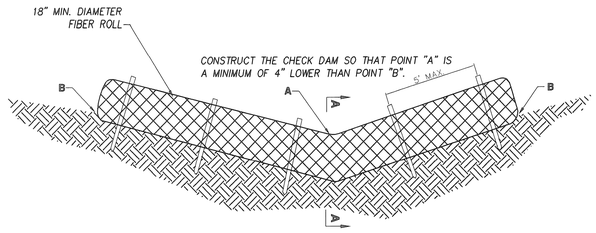
NOTES STRAW BALE BARRIER

1. PLACE STRAW BALE BARRIERS BEFORE BEGINNING EARTH DISTURBING ACTIVITIES.
2. DO NOT PLACE STRAW BALE BARRIERS ACROSS NATURAL STREAM BEDS.
3. MAINTAIN A PROPERLY FUNCTIONING STRAW BALE BARRIER THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL DISTURBED AREAS HAVE BEEN SEEDED AND MULCHED.
4. AFTER SURROUNDING AREAS HAVE BEEN STABILIZED, REMOVE BALES AND STAKES AND LEVEL AND SEED THE AREA. BALES MAY BE BUSTED APART AND SPREAD AS MULCH.

STRAW BALE CHECK DAM (C)
NOT TO SCALE



SECTION A-A



OPTIONAL STRAW BALE CHECK DAM (C)
NOT TO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3737A
SR-44 @ M.P. 0.5 +/-
GREENDALE, UTAH

DESIGNER

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 272207
DARRIN R. SMITH
2-1-2008
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
PEPG PROJECT NO:	6600.0712
DRAWN BY:	RSL
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	FEBRUARY, 2008

SHEET TITLE

S.W.P.P.P. DETAILS

C301

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C2/AE401

5. SEE SHEET A1/AE501 FOR WALL TYPES.

6. TWO BOLLARDS REQUIRED PER SECTIONAL DOOR JAMB. ALIGN WITH DOOR JAMB, SEE DETAILS A2 & B2/AE503.

7. SEE SHEET AE602 FOR WINDOW FRAME TYPES & DETAILS.

8. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION/CONTROL JOINT LOCATIONS IN CONCRETE SLAB.

9. ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.

10. COORDINATE LOCATION & SIZE OF CONCRETE PIER WITH THE STRUCTURAL ENGINEER AND THE METAL BUILDING MANUFACTURER TO MEET ALL ADA REQUIREMENTS.

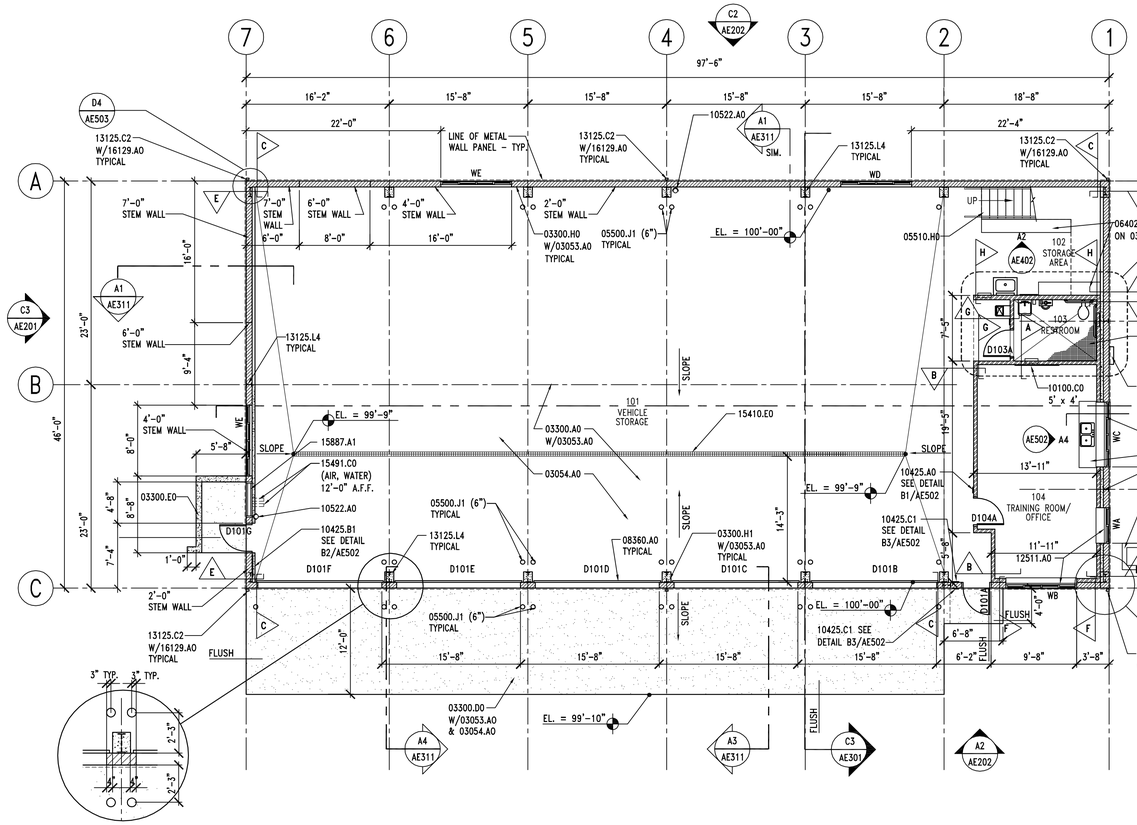
11. COLUMNS SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR TO GET EXACT SIZES AND LOCATIONS FROM APPROVED METAL BUILDING SHOP DRAWINGS.

12. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

13. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101, 102, CONCRETE MEZZANINE, STAIR TREADS & LANDING.

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A0	CONCRETE SLAB ON GRADE
03300.D0	CONCRETE PAD - (THICKNESS)
03300.E0	RETAINING WALL
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.H1	CONCRETE PIER - SEE STRUCTURAL
03300.G0	CONCRETE OVER METAL DECK - SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED
05510.H0	CONCRETE FILLED METAL PAN STAIR - GALVANIZED
06105.R3	PLYWOOD PANEL (THICKNESS)
06402.C1	PAINT GRADE WOOD CAP (THICK)
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.P2	COUNTERTOP - P. LAM. ON 3/4" PLYWOOD
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
10100.C0	MARKER BOARD (L X H)
10425.A0	ROOM SIGNAGE
10425.B1	WELDING SIGNAGE
10425.C1	ACCESSIBLE SIGNAGE
10522.A0	FIRE EXTINGUISHER
12511.A0	HORIZONTAL LOUVER BLINDS
13125.C2	DOWNSPOUT
13125.L4	STEEL COLUMN - PRIMED AND PAINTED
13125.L5	STEEL COLUMN - PRIMED
15410.D1	FLOOR SINK
15410.E0	TRENCH DRAIN
15486.A1	FUEL FIRED WATER HEATER
15491.A0	AIR COMPRESSOR
15491.C0	OVERHEAD HOSE REELS
15611.A1	GAS FIRED FURNACE
15670.A1	CONDENSOR UNIT - SEE MECHANICAL
15838.A0	EXHAUST FAN SEE MECHANICAL DRAWINGS
15887.A1	LOUVER WITH BIRD SCREEN
16129.A0	CONTINUOUSE HEAT TAPE IN DOWNSPOUTS AND GUTTERS
16411.A1	EMERGENCY DISCONNECT - SEE ELECTRICAL
16422.A0	ELECTRICAL PANEL

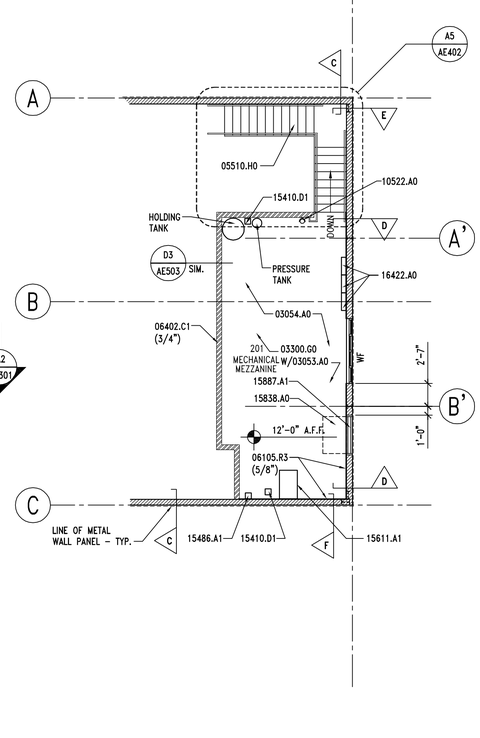


A1 FLOOR PLAN

AE101 REF. SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PLAN NORTH



A4 MEZZANINE PLAN

AE101 REF. SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
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DESIGNER

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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

FIRST FLOOR AND MEZZANINE PLAN

AE101

CEILING SYMBOLS

- PAINTED GYP. BD. CEILING
- 2' x 4' FLUORESCENT LIGHT FIXTURE, SEE ELECT. DRAWINGS FOR TYPE.
- 1' x 4' FLUORESCENT LIGHT FIXTURE
- 1' x 8' FLUORESCENT LIGHT FIXTURE
- RETURN AIR GRILLE – HORIZONTAL (SEE MECH. DRAWINGS)
- SUPPLY AIR GRILLE – HORIZONTAL (SEE MECH. DRAWINGS)
- RADIANT HEAT SYSTEM (SEE MECH. DRAWINGS)
- EXHAUST FAN (SEE MECH. DRAWINGS)
- EXIT SIGN
- EMERGENCY FLOOD LIGHTS
- EXTERIOR WALL MOUNTED LIGHTS

REFLECTED CEILING PLAN LEGEND

ROOM # — 131
TYPE — E
ELEVATION A.F.F. — VARIES

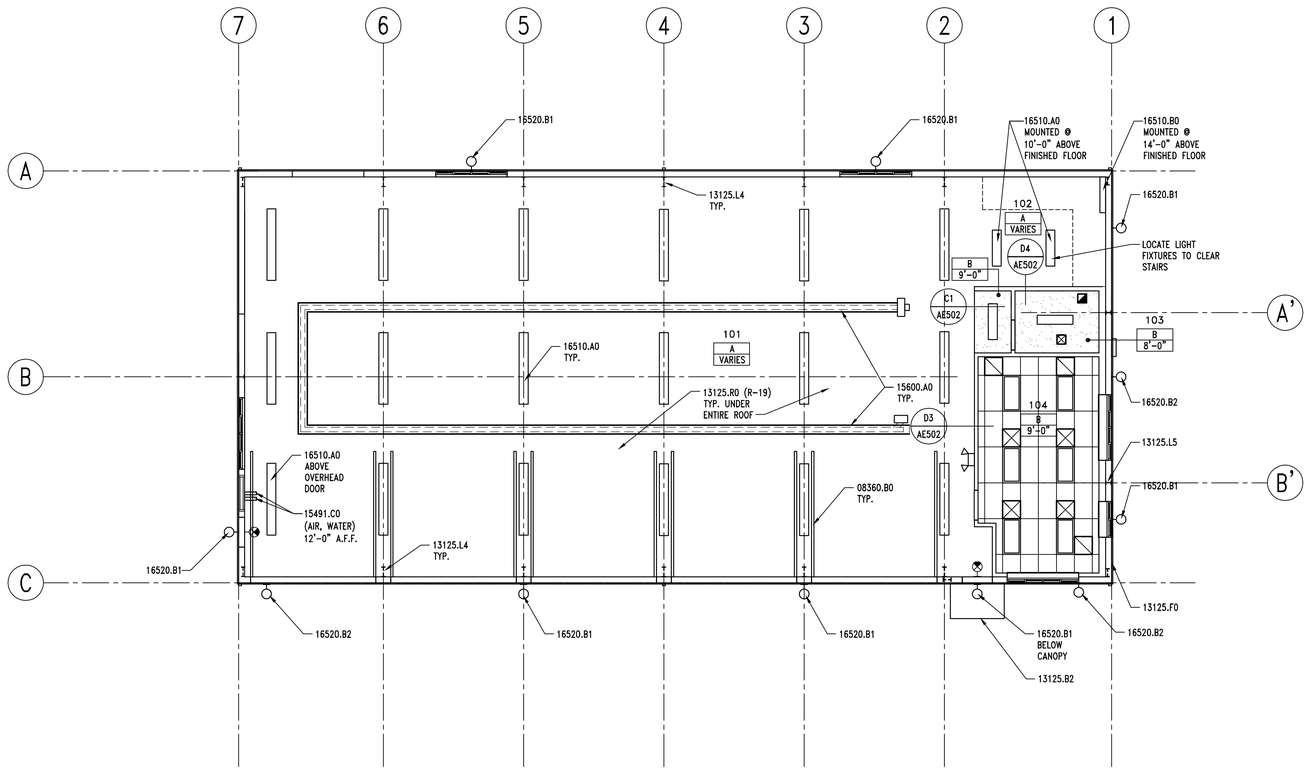
TYPE A	EXPOSED STRUCTURE – PAINTED
TYPE B	5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM – PAINTED
TYPE C	2' X 4' LAY – IN CEILING GRID SYSTEM WITH ACOUSTICAL PANELS

GENERAL NOTES

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
2. CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE NOTES FOR ADDITIONAL CEILING FINISH INFORMATION.
3. SEE DETAIL C1 & C2/AE502 FOR SEISMIC BRACING DETAILS.
4. ROOF STRUCTURE NOT SHOWN FOR CLARITY.
5. COORDINATE LOCATION OF OVERHEAD DOOR TRACKS WITH LIGHTING FIXTURES TO INSURE PROPER OPERATION OF OVERHEAD DOORS.

KEYNOTES

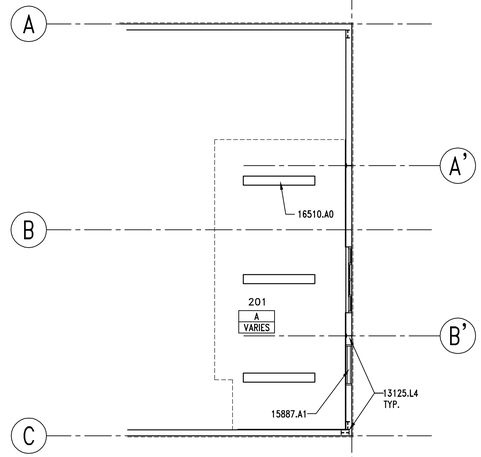
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
13125.B2	STANDING SEAM METAL CANOPY
13125.F0	METAL WALL PANEL
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.L5	STEEL COLUMN – PRIMED
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
15491.C0	OVERHEAD HOSE REELS
15600.A0	RADIANT HEATING SYSTEM
15887.A1	LOUVER WITH BIRD SCREEN
16510.A0	INTERIOR LIGHTS
16510.B0	WALL MOUNTED INTERIOR LIGHTS
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS



A2 | FIRST FLOOR REFLECTED CEILING PLAN
AE121 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PLAN NORTH



A4 | MEZZ. REFL. CEILING PLAN
AE121 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

CLIENT

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SR-44 @ M.P. 0.5 ±
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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8" = 1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

FIRST FLOOR & MEZZANINE REFLECTED CEILING PLANS

AE121

KEYNOTES

07729.A0 STANDING SEAM METAL ROOF 2 PIPE SNOWGAURD SYSTEM

13125.B0 STANDING SEAM METAL ROOF (SLOPE 1:12)
13125.B2 STANDING SEAM METAL CANOPY
13125.C0 METAL RAIN GUTTER WITH DOWNSPOUTS
13125.D9 FLEXIBLE ROOF RIDGE
13125.E3 RAKE TRIM

16129.A0 CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS

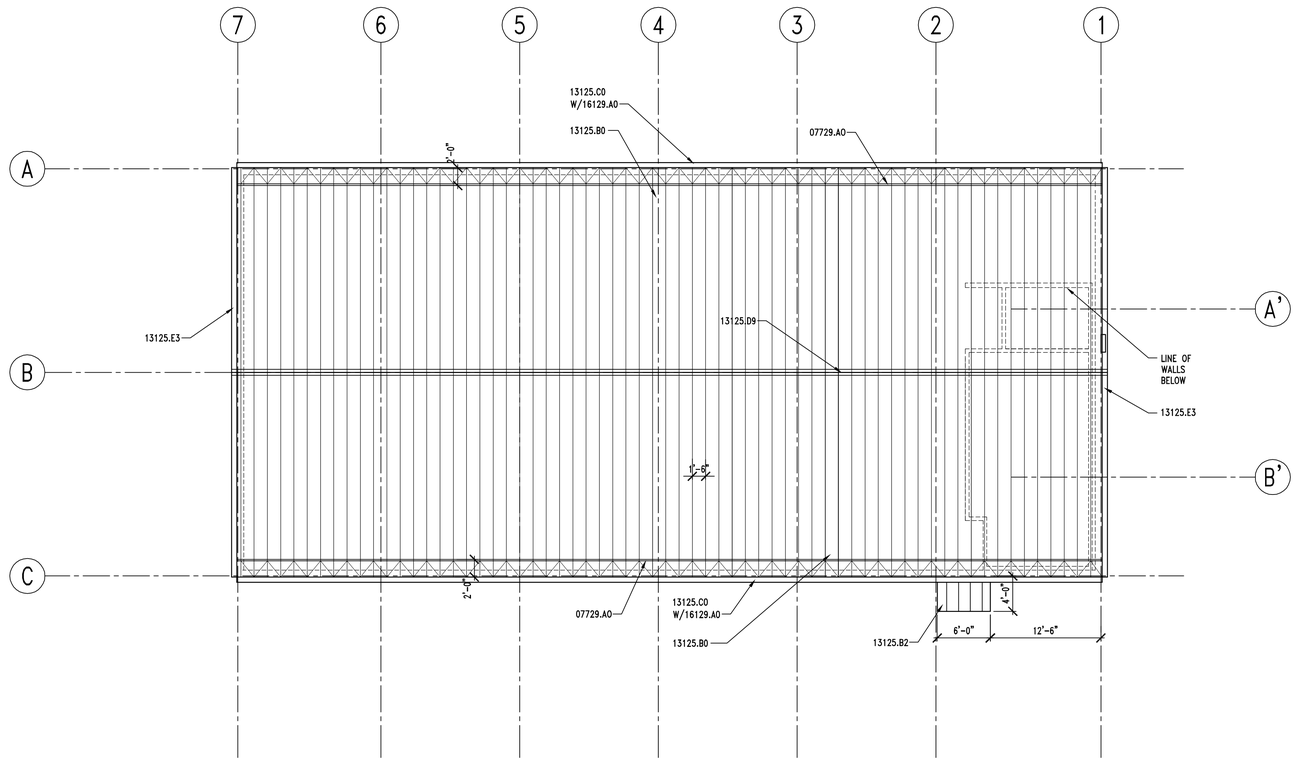
GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. SEE SHEET AE201 FOR EXTERIOR FINISH COLORS.



A2 | ROOF PLAN
AS102 | REF.

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

8' 6' 4' 2' 0' 4' 8' 16'

PLAN NORTH

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

DESIGNER

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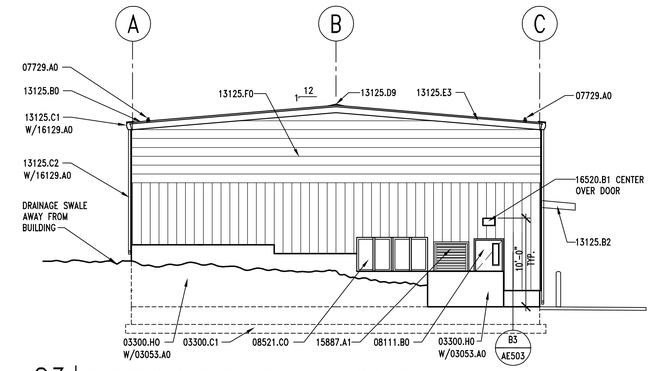
SHEET TITLE

ROOF PLAN

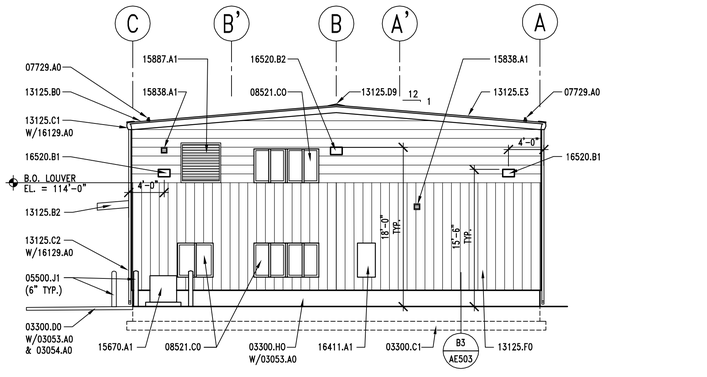
AE141



C3 | EXTERIOR ELEVATION – SOUTH

8' 6' 4' 2' 0' 4' 8' 16'

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"



A3 | EXTERIOR ELEVATION – NORTH

8' 6' 4' 2' 0' 4' 8' 16'

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.C1	FOOTING – SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL – SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PLYWOOD PANEL (THICKNESS)
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW WITH SLIDING GLASS PANEL
10425.C1	ACCESSIBLE SIGNAGE – SEE DETAIL B3/AE502
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.D9	FLEXIBLE ROOF RIDGE
13125.E2	PANEL TRIM
13125.E3	RAKE TRIM
13125.E6	WALL CLOSURE
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.F4	METAL WALL PANEL TRIM
13125.G0	METAL FACIA
13125.H1	METAL ANGLE
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.N1	ANCHOR
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
15050.A1	MECH. PENETRATIONS
15490.C0	WASTE OIL PIT
15670.A1	CONDENSER UNIT
15838.A1	EXHAUST FAN VENT
15887.A1	LOUVER WITH BIRD SCREEN
16129.A0	CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS
16411.A1	EMERGENCY DISCONNECT – SEE ELECTRICAL
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR COLOR SCHEDULE

(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
(08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(08521.B0 & C0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(13125.B0) METAL ROOF, FASCIA: KYNAR 500 "EMERALD GREEN" OR EQUAL
(13125.C1 & E3) GUTTERS & RAKE TRIM: KYNAR 500 "EMERALD GREEN" OR EQUAL
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 4
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 7
(13125.F0) METAL WALL PANEL: SILICONIZED POLYESTER FINISH – COLOR "B" BY ARCHITECT
(13125.G0) METAL FASCIA: SILICONIZED POLYESTER FINISH – COLOR "A" BY ARCHITECT
(15838.A1) EXHAUST VENTS: PRE-FINISHED KYNAR 500 "BONE WHITE" OR EQUAL
(15887.A1) LOUVERS: PRE-FINISHED KYNAR 500 "BONE WHITE" OR EQUAL
(16520.B1 & B2) EXTERIOR LIGHT FIXTURES: KYNAR 500 "BONE WHITE" OR EQUAL

CLIENT

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	02-2008	CONSTRUCTION DOCUMENTS

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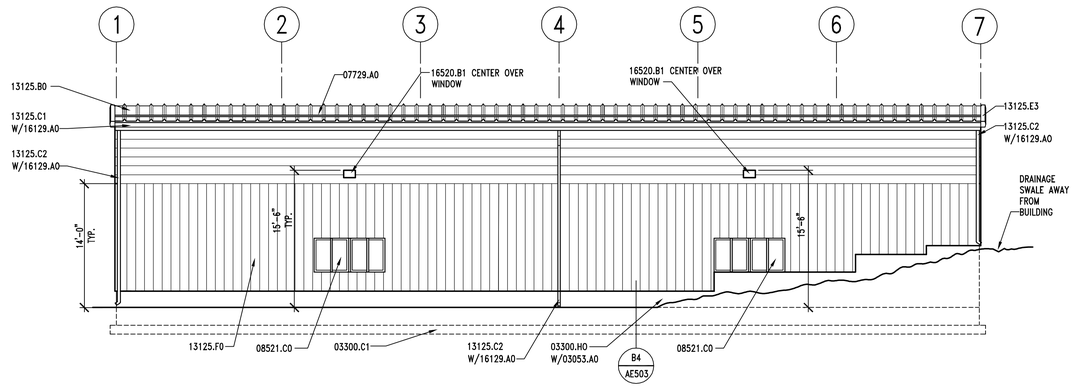
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8" = 1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

EXTERIOR ELEVATIONS

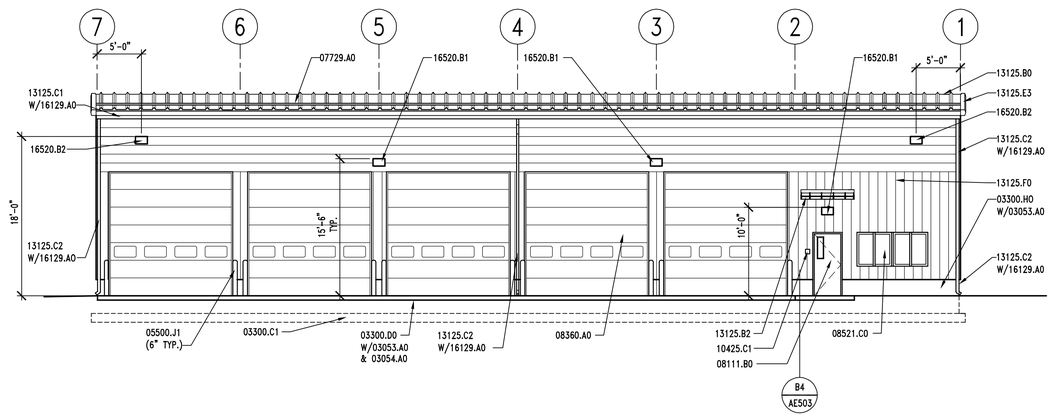
AE201



C2 | EXTERIOR ELEVATION – WEST

AE202 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'



A2 | EXTERIOR ELEVATION – EAST

AE202 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

EXTERIOR ELEVATION KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.C1	FOOTING – SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL – SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PLYWOOD PANEL (THICKNESS)
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW WITH SLIDING GLASS PANEL
10425.C1	ACCESSIBLE SIGNAGE – SEE DETAIL B3/AE502
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.D9	FLEXIBLE ROOF RIDGE
13125.E2	PANEL TRIM
13125.E3	RAKE TRIM
13125.E6	WALL CLOSURE
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.F4	METAL WALL PANEL TRIM
13125.G0	METAL FACIA
13125.H1	METAL ANGLE
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.N1	ANCHOR
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
15050.A1	MECH. PENETRATIONS
15490.C0	WASTE OIL PIT
15670.A1	CONDENSER UNIT
15838.A1	EXHAUST FAN VENT
15887.A1	LOUVER WITH BIRD SCREEN
16129.A0	CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS
16411.A1	EMERGENCY DISCONNECT – SEE ELECTRICAL
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR COLOR SCHEDULE

(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
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(13125.B0) METAL ROOF, FASCIA: KYNAR 500 "EMERALD GREEN" OR EQUAL
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(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 4
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(16520.B1 & B2) EXTERIOR LIGHT FIXTURES: KYNAR 500 "BONE WHITE" OR EQUAL

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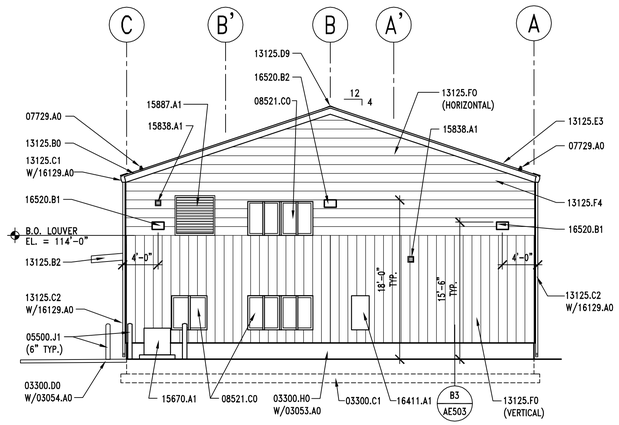
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

EXTERIOR ELEVATIONS

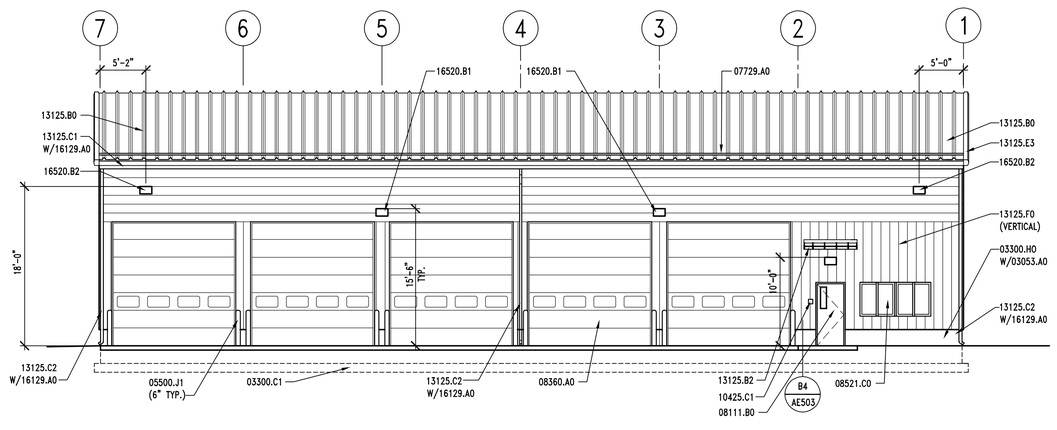
AE202



A3 | EXTERIOR ELEVATION – NORTH

AE203 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'



A2 | EXTERIOR ELEVATION – EAST

AE203 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

EXTERIOR ELEVATION KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.C1	FOOTING – SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL – SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PLYWOOD PANEL (THICKNESS)
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW WITH SLIDING GLASS PANEL
10425.C1	ACCESSIBLE SIGNAGE – SEE DETAIL B3/AE502
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.D9	FLEXIBLE ROOF RIDGE
13125.E2	PANEL TRIM
13125.E3	RAKE TRIM
13125.E6	WALL CLOSURE
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.F4	METAL WALL PANEL TRIM
13125.G0	METAL FACIA
13125.H1	METAL ANGLE
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.N1	ANCHOR
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
15050.A1	MECH. PENETRATIONS
15490.C0	WASTE OIL PIT
15670.A1	CONDENSER UNIT
15838.A1	EXHAUST FAN VENT
15887.A1	LOUVER WITH BIRD SCREEN
16129.A0	CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS
16411.A1	EMERGENCY DISCONNECT – SEE ELECTRICAL
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS

GENERAL NOTES

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2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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EXTERIOR COLOR SCHEDULE

(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
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(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 4
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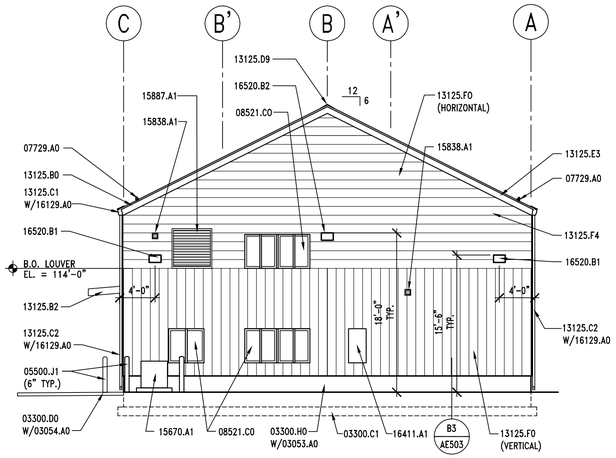
SHEET TITLE

EXTERIOR ELEVATIONS ADD ALT #1

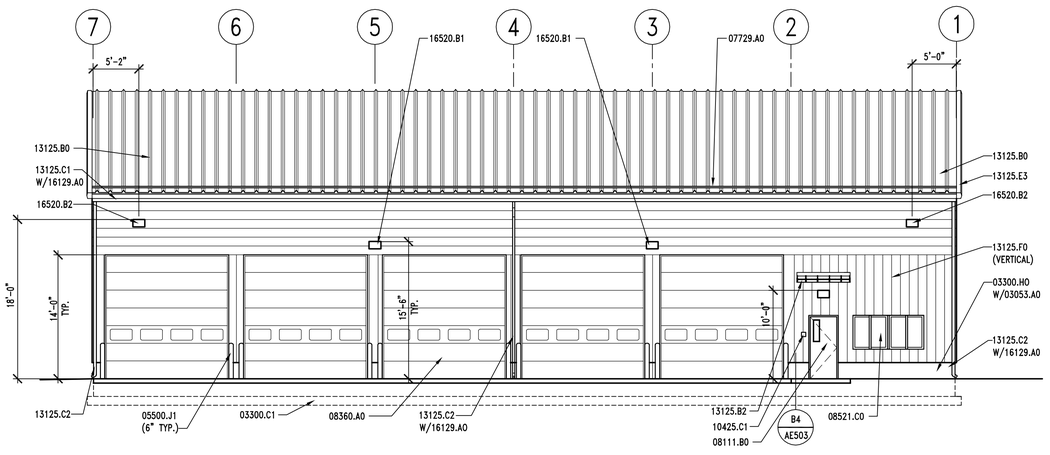
AE203



A3 | EXTERIOR ELEVATION – NORTH

AE204 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'



A2 | EXTERIOR ELEVATION – EAST

AE204 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

EXTERIOR ELEVATION KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.C1	FOOTING – SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL – SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PLYWOOD PANEL (THICKNESS)
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW WITH SLIDING GLASS PANEL
10425.C1	ACCESSIBLE SIGNAGE – SEE DETAIL B3/AE502
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.D9	FLEXIBLE ROOF RIDGE
13125.E2	PANEL TRIM
13125.E3	RAKE TRIM
13125.E6	WALL CLOSURE
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.F4	METAL WALL PANEL TRIM
13125.G0	METAL FACIA
13125.H1	METAL ANGLE
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.N1	ANCHOR
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
15050.A1	MECH. PENETRATIONS
15490.C0	WASTE OIL PIT
15670.A1	CONDENSER UNIT
15838.A1	EXHAUST FAN VENT
15887.A1	LOUVER WITH BIRD SCREEN
16129.A0	CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS
16411.A1	EMERGENCY DISCONNECT – SEE ELECTRICAL
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS

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3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR COLOR SCHEDULE

(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
(08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(08521.B0 & C0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(13125.B0) METAL ROOF, FASCIA: KYNAR 500 "EMERALD GREEN" OR EQUAL
(13125.C1 & E3) GUTTERS & RAKE TRIM: KYNAR 500 "EMERALD GREEN" OR EQUAL
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 4
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 7
(13125.F0) METAL WALL PANEL: SILICONIZED POLYESTER FINISH – COLOR "B" BY ARCHITECT
(13125.G0) METAL FASCIA: SILICONIZED POLYESTER FINISH – COLOR "A" BY ARCHITECT
(15838.A1) EXHAUST VENTS: PRE-FINISHED KYNAR 500 "BONE WHITE" OR EQUAL
(15887.A1) LOUVERS: PRE-FINISHED KYNAR 500 "BONE WHITE" OR EQUAL
(16520.B1 & B2) EXTERIOR LIGHT FIXTURES: KYNAR 500 "BONE WHITE" OR EQUAL

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GREENDALE UTAH

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STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

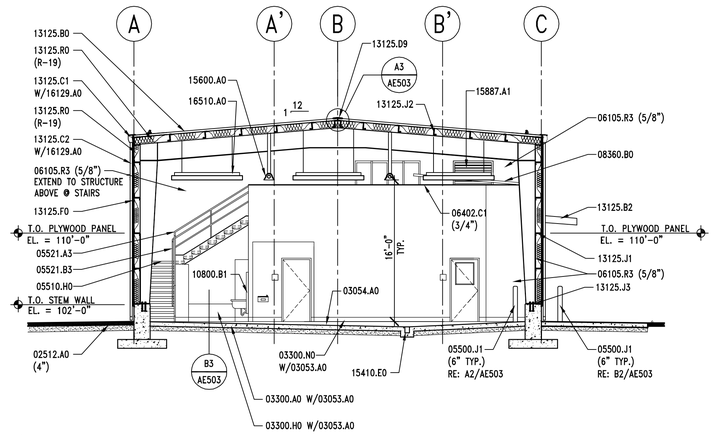
ISSUE		
	02-2008	CONSTRUCTION DOCUMENTS
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

EXTERIOR ELEVATIONS ADD ALT #2

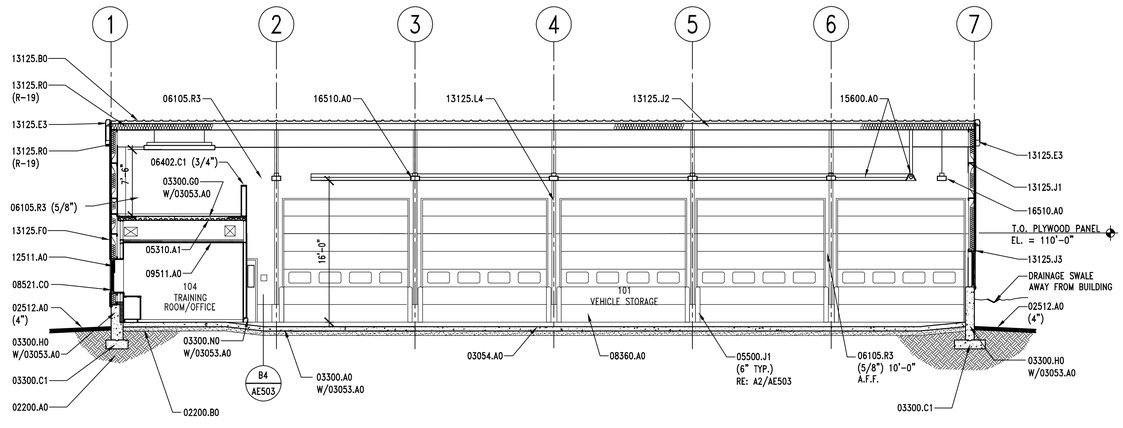
AE204



C3 | BUILDING SECTION

AE301 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'



A2 | BUILDING SECTION

AE301 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

BUILDING SECTION KEYNOTES

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
02512.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)

03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03054.A0 OLIOPHOBIC TOPICAL SEALER
03300.A0 CONCRETE - SLAB ON GRADE
03300.C1 FOOTING - SEE STRUCTURAL
03300.D0 CONCRETE PAD - (THICKNESS)
03300.G0 CONCRETE OVER METAL DECK - SEE STRUCTURAL
03300.H0 FOUNDATION WALL - SEE STRUCTURAL
03300.N0 CONCRETE CURB

05310.A1 METAL DECK - SEE STRUCTURAL
05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
05510.H0 CONC. FILLED METAL PAN STAIR
05521.A3 1½" O.D. PIPE GAURDRAIL - GALVANIZED
05521.B3 1½" O.D. PIPE HANDRAIL - GALVANIZED

06105.R3 PLYWOOD PANEL (THICKNESS)
06402.C1 PAINT GRADE WOOD CAP (THICK.)

07729.A0 STANDING SEAM METAL ROOF 2 PIPE SNOWGAURD SYSTEM

08360.A0 HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

09255.A1 GYPSUM BOARD (THICKNESS)
09511.A0 LAY-IN ACOUSTICAL CEILING SYSTEM

10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE DISPOSAL

12511.A0 HORIZONTAL LOUVER BLINDS

13125.B0 STANDING SEAM METAL ROOF
13125.B2 STANDING SEAM METAL CANOPY
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.D9 FLEXIBLE ROOF RIDGE
13125.E3 RAKE TRIM
13125.F0 METAL WALL PANEL
13125.J1 STRUCTURAL GIRT - PAINTED
13125.J2 ROOF PURLIN - PAINTED
13125.J3 STRUCTURAL GIRT
13125.J5 STRUCTURAL GIRT - PRIMED
13125.L4 STEEL COLUMN - PRIMED & PAINTED
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

15410.E0 TRENCH DRAIN
15600.A0 RADIANT HEATING SYSTEM
15887.A1 LOUVER WITH BIRD SCREEN

16129.A0 CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS
16510.A0 INTERIOR LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

6. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB IN ROOMS 101, 102, CONCRETE MEZZANINE AND STAIRS.

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ISSUE

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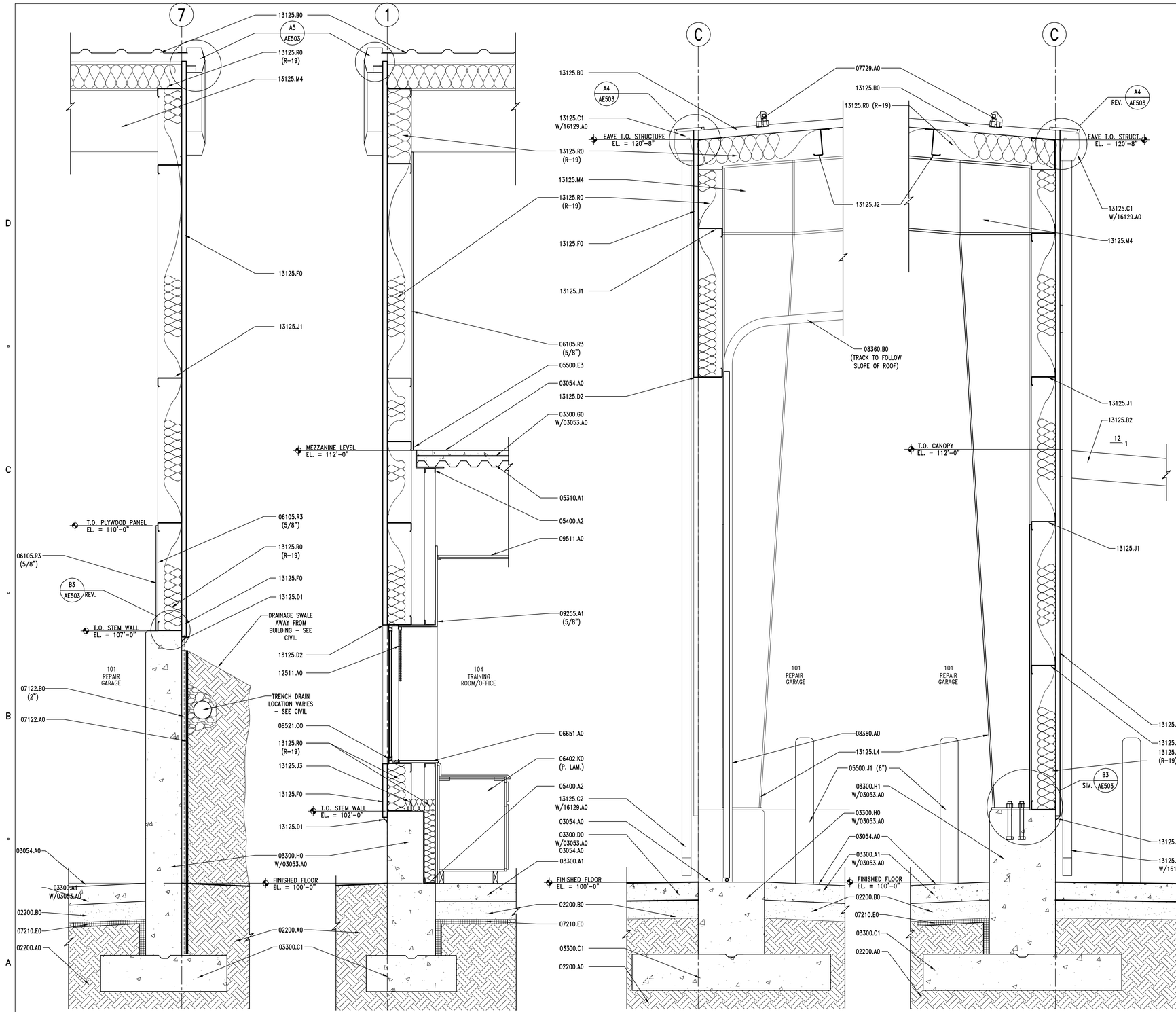
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8" = 1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

BUILDING SECTIONS

AE301



A1 | WALL SECTION

AE311 | REF. AE101, AE301 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

A2 | WALL SECTION

AE311 | REF. AE101, AE301 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

A3 | WALL SECTION

AE311 | REF. AE101, AE301 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

A4 | WALL SECTION

AE311 | REF. AE101, AE301 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

KEYNOTES

02200.A0	COMPACTED FILL
02200.B0	GRAVEL BASE
03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE - SLAB ON GRADE
03300.C1	FOOTING - SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.G0	CONCRETE OVER METAL DECK - SEE STRUCTURAL
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.H1	CONCRETE PIER - SEE STRUCTURAL
05310.A1	METAL DECK - SEE STRUCTURAL
05400.A2	3 5/8" STRUCTURAL STEEL STUDS - SEE STRUCTURAL DRAWINGS FOR SPACING AND GAUGE
05500.E3	BENT PLATE - SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PLYWOOD PANEL (THICKNESS)
06402.C1	PAINT GRADE WOOD CAP (THICK.)
06402.K0	BASE UNIT (FINISH)
06651.A0	1/2" WHITE SOLID SURFACE WINDOW SILL
07122.A0	HOT FLUID APPLIED MEMBRANE
07122.B0	RIGID INSULATION BOARD (THICKNESS)
07210.E0	FOUNDATION WALL INSULATION
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGAURD SYSTEM
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08521.C0	VINYL WINDOW WITH SLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.U1	SUSPENDED CEILING SYSTEM
09511.A0	LAY-IN ACOUSTICAL CEILING SYSTEM
12511.A0	HORIZONTAL LOUVER BLINDS
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.D2	METAL HEAD FLASHING
13125.E3	RAKE TRIM
13125.F0	METAL WALL PANEL
13125.J1	STRUCTURAL GIRT - PAINTED
13125.J2	ROOF PURLIN - PAINTED
13125.J3	STRUCTURAL GIRT
13125.L4	STEEL COLUMN - PRIMED & PAINTED
13125.M4	STEEL BEAM - PRIMED & PAINTED
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
16129.A0	CONTINUOUS HEAT TAPE IN DOWN SPOUTS AND GUTTERS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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ISSUE

MARK	DATE	DESCRIPTION
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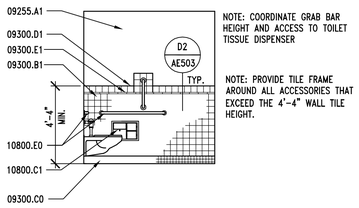
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	3/4" = 1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

WALL SECTIONS

AE311



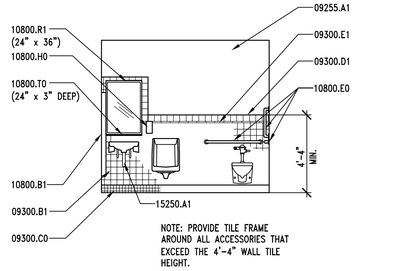
NOTE: COORDINATE GRAB BAR HEIGHT AND ACCESS TO TOILET TISSUE DISPENSER

NOTE: PROVIDE TILE FRAME AROUND ALL ACCESSORIES THAT EXCEED THE 4'-4" WALL TILE HEIGHT.

D1 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

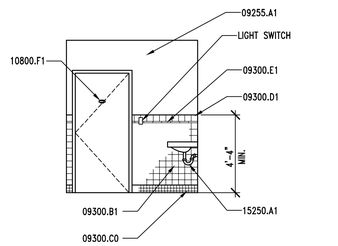


NOTE: PROVIDE TILE FRAME AROUND ALL ACCESSORIES THAT EXCEED THE 4'-4" WALL TILE HEIGHT.

D2 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

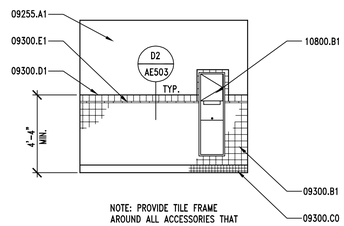
4' 3' 2' 1' 0' 2' 4' 8'



D3 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

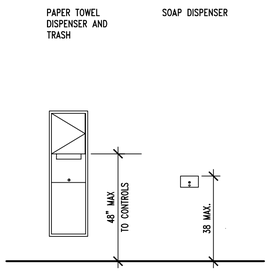


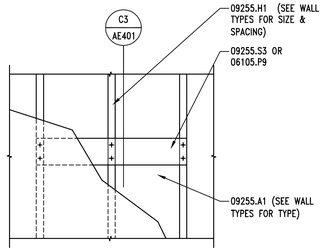
NOTE: PROVIDE TILE FRAME AROUND ALL ACCESSORIES THAT EXCEED THE 4'-4" WALL TILE HEIGHT.

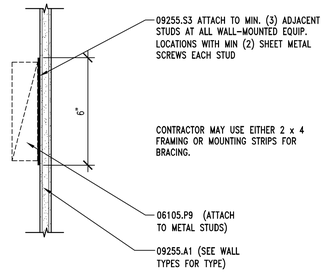
D4 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'



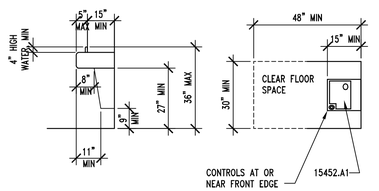




C1 | MOUNTING HEIGHTS

AE401 | REF. AE401 | SCALE: 3/8"= 1'-0"

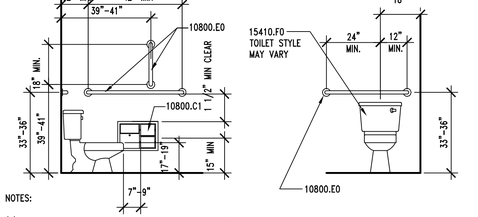
12" 6" 0 1' 2' 4'



C2 | MOUNTING PLATE ELEV.

AE401 | REF. AE401 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'



NOTES:

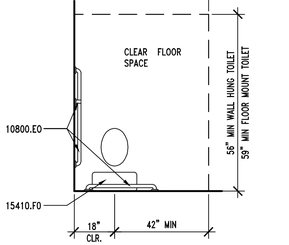
(1) ALL GRAB BARS MUST SUPPORT A LOAD OF 250 POUNDS MIN.

(2) MOUNT GRAB BARS TO MAINTAIN 1 1/2" CLEAR SPACE FROM WALL.

C3 | MOUNTING PLATE SECTION

AE401 | REF. AE401 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



B1 | ACCESSIBLE DRINKING FOUNTAIN DETAIL

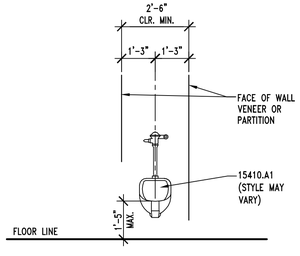
AE401 | REF. AE401 | SCALE: 3/8"= 1'-0"

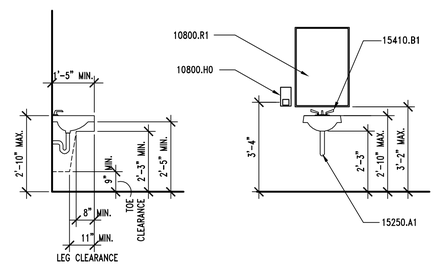
12" 6" 0 1' 2' 4'

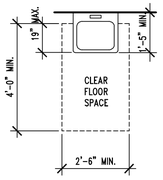
B2 | ACCESSIBLE TOILET DETAIL

AE401 | REF. AE401 | SCALE: 3/8"= 1'-0"

12" 6" 0 1' 2' 4'







A1 | ACCESSIBLE URINAL DETAIL

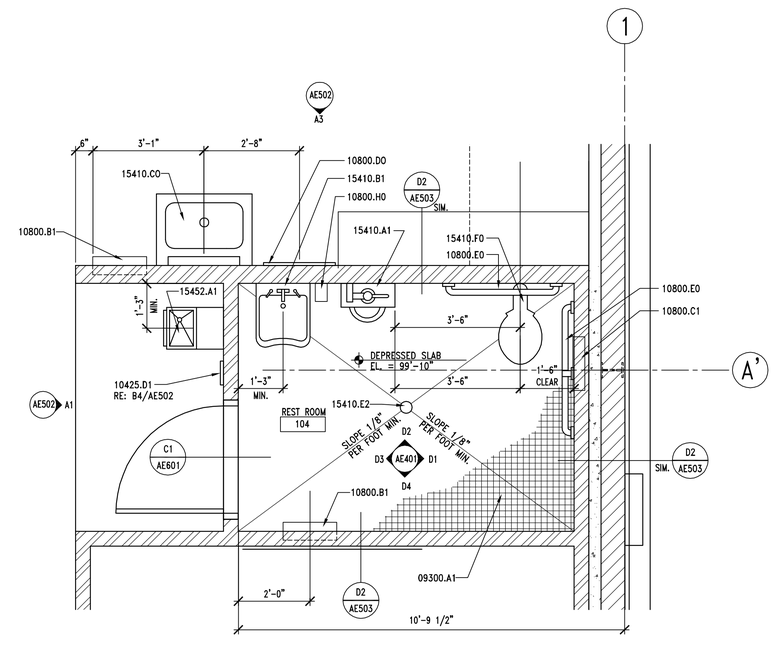
AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

12" 6" 0 1' 2' 4'

A2 | ACCESSIBLE SINK DETAIL

AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

12" 6" 0 1' 2' 4'



A4 | ENLARGED RESTROOM PLAN

AE401 | REF. AE101 | SCALE: 1/2" = 1'-0"

24" 18' 12' 6" 0' 1' 2' 4'

PLAN NORTH

KEYNOTES

06105.P9	2 X FRAMING, FIRE TREATED
09255.A1	GYPSUM BOARD
09255.H1	METAL STUDS (SIZE, SPACING)
09255.S3	18 GA. METAL MOUNTING STRIPS
09300.A1	FLOOR TILE - SEE FINISH SCHED.
09300.B1	WALL TILE - SEE FINISH SCHED.
09300.C0	TILE BASE
09300.D1	BULLNOSE TILE
09300.E1	1/2" x 6" TILE TRIM PIECE - SEE FINISH SCHED.
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C1	RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0	MOP RACK
10800.E0	GRAB BAR
10800.F1	DOUBLE PRONG ROBE HOOK
10800.H0	SOAP DISPENSER
10800.R1	FRAMED MIRROR (SIZE)
10800.T0	METAL SHELF (SIZE)
15250.A1	PIPE INSULATION AT ALL EXPOSED PIPE
15410.A1	URINAL, ACCESSIBLE
15410.B1	SINK FAUCET W/ADA LEVER HANDLES
15410.C0	UTILITY SINK
15410.E2	FLOOR DRAIN
15410.F0	TOILET
15452.A1	DRINKING FOUNTAIN

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C2/AE401

5. SEE C1/AE401 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.

6. SEE DETAILS A1, A2, B1 & B2/AE401 FOR ADA TYPICAL DETAILS

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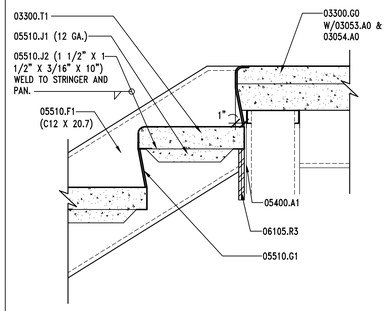
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

ENLARGED RESTROOM FLOOR PLAN, INTERIOR ELEVATION AND DETAILS

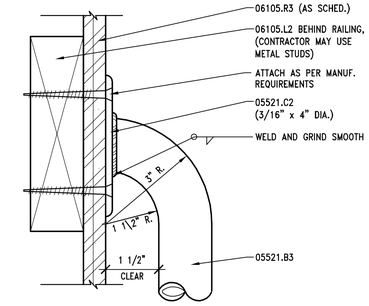
AE401



C1 | STAIR LANDING DETAIL

AE402 | REF. AE402 | SCALE: 1 1/2" = 1'-0"

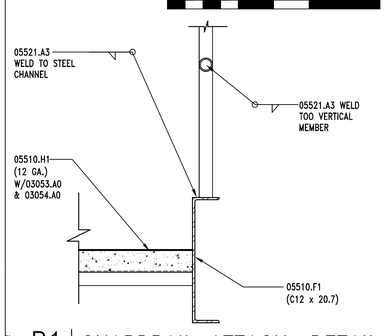
8" 6" 4" 2" 0 4" 8" 16"



C2 | HANDRAIL ATTACHMENT DTL.

AE402 | REF. AE402 | SCALE: 6" = 1'-0"

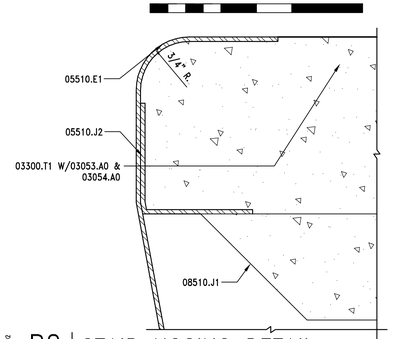
2" 1" 0 1" 2" 4"



B1 | GUARDRAIL ATTACH. DETAIL

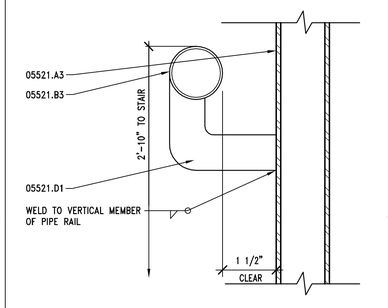
AE402 | REF. AE402 | SCALE: 1 1/2" = 1'-0"

8" 6" 4" 2" 0 4" 8" 16"



B2 | STAIR NOSING DETAIL

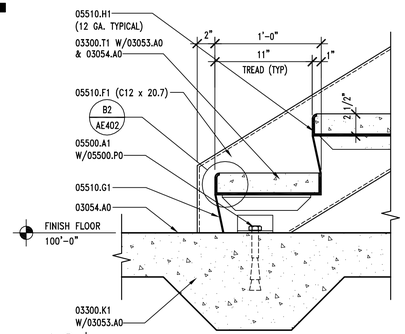
AE402 | REF. AE402 | SCALE: NONE



A1 | HANDRAIL ATTACHMENT DTL.

AE402 | REF. AE402 | SCALE: 6" = 1'-0"

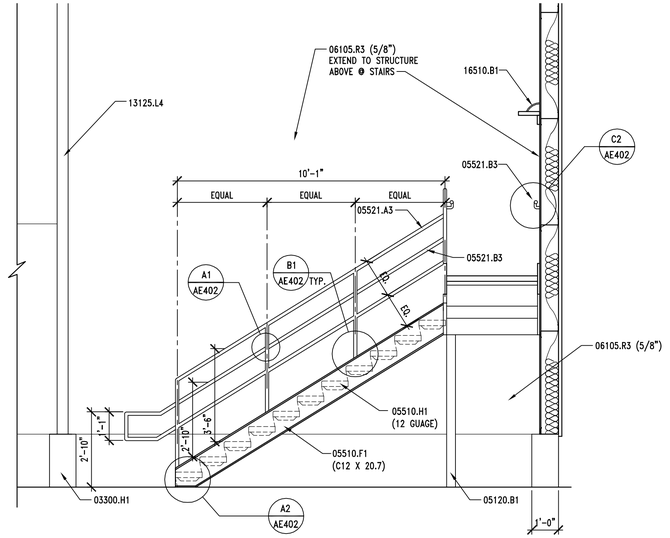
2" 1" 0 1" 2" 4"



A2 | STAIR BASE DETAIL

AE402 | REF. AE402 | SCALE: 1 1/2" = 1'-0"

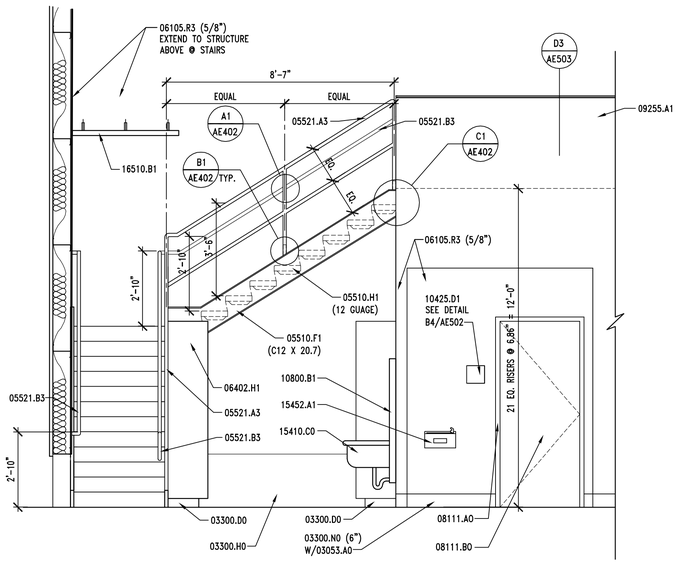
8" 6" 4" 2" 0 4" 8" 1'-4"



C3 | STAIR ELEVATION

AE402 | REF. AE402 | SCALE: 3/8" = 1'-0"

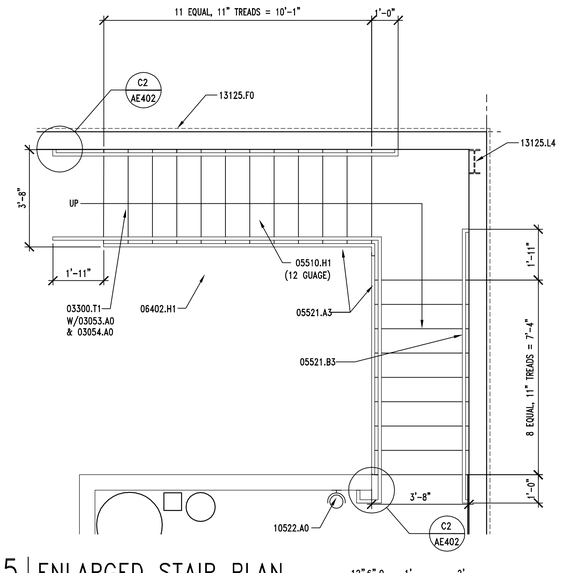
12" 6" 0 1' 2' 4'



A3 | STAIR ELEVATION

AE402 | REF. AE402 | SCALE: 3/8" = 1'-0"

12" 6" 0 1' 2' 4'



A5 | ENLARGED STAIR PLAN

AE402 | REF. AE101 | SCALE: 3/8" = 1'-0"

12" 6" 0 1' 2' 4'

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.G0	CONCRETE OVER METAL DECK - SEE STRUCTURAL
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.H1	CONCRETE PIER - SEE STRUCTURAL
03300.K1	THICKENED SLAB - SEE STRUCTURAL
03300.T1	CONCRETE AT STAIR TREAD
05120.B1	COLUMN - SEE STRUCTURAL - GALVANIZED
05400.A1	6" STRUCTURAL STEEL STUDS - SEE STRUCTURAL DRAWINGS FOR SPACING AND GAUGE
05500.A1	ANGLE - SEE STRUCTURAL
05500.P0	ANCHOR BOLT(S)
05510.E1	NON SKID SURFACE @ NOSING
05510.F1	STEEL STRINGER - (SIZE) - GALVANIZED
05510.G1	3/16" STEEL CLOSURE PLATE - GALVANIZED
05510.H1	PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD - (SIZE) - GALV.
05510.J1	METAL PAN STAIR SUPPORT - (SIZE) - GALVANIZED
05510.J2	PAN ANCHORAGE - (SIZE) - GALVANIZED
05510.K1	STEEL CHANNEL DECK SUPPORT - GALVANIZED
05521.A3	1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED
05521.B3	1 1/2" O.D. PIPE HANDRAIL - GALVANIZED
05521.C2	ESCUTCHEON WITH EASED EDGES (SIZE)
05521.D1	PIPE RAIL SUPPORT - GALVANIZED
06105.L2	BLOCKING AS REQUIRED
06105.R3	PLYWOOD PANEL (THICKNESS)
06402.H1	ADJUSTABLE SHELVES (FINISH)
09255.A1	GYPSUM BOARD (THICKNESS)
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10522.A0	FIRE EXTINGUISHER
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
13125.F0	METAL WALL PANEL
13125.L4	STEEL COLUMN - PRIMED AND PAINTED
15410.C0	UTILITY SINK
15452.A1	DRINKING FOUNTAIN
16510.B1	INTERIOR MOUNTED LIGHT FIXTURE

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

CLIENT

UDOT CONNECTING COMMUNITIES

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SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

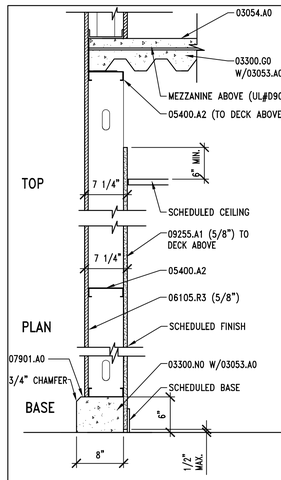
MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

STAIR PLAN, SECTION, ELEVATIONS AND DETAILS

AE402

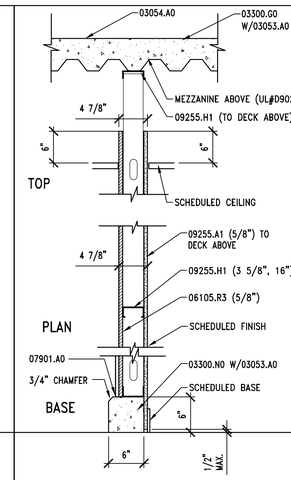


PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
H	AS NOTED	6"	N.R.	---	---

COMMENT

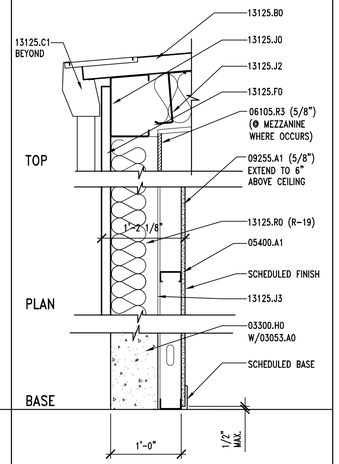


PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
G	AS NOTED	3 5/8"	N.R.	---	---

COMMENT

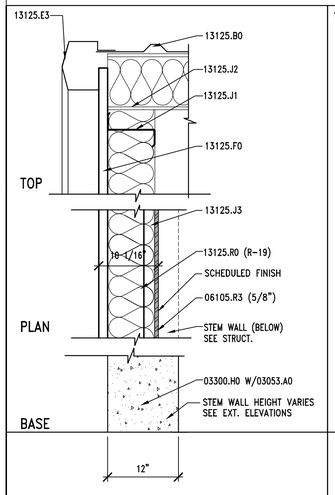


PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
F	AS NOTED	3-5/8"	N.R.	---	---

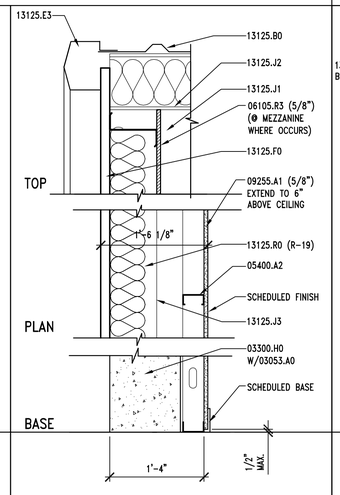
COMMENT



12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
E	AS NOTED	–	N.R.	---	---

COMMENT

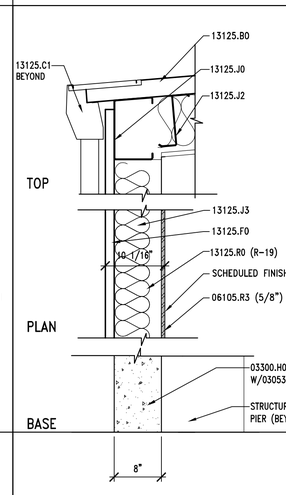


PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
D	AS NOTED	3-5/8"	N.R.	---	---

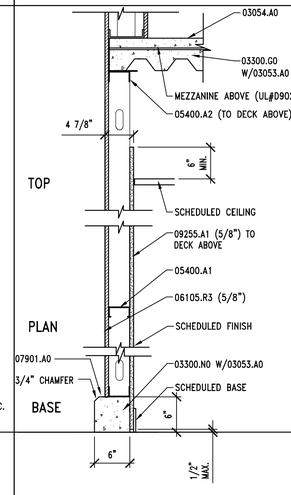
COMMENT



12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
C	AS NOTED	–	N.R.	---	---

COMMENT

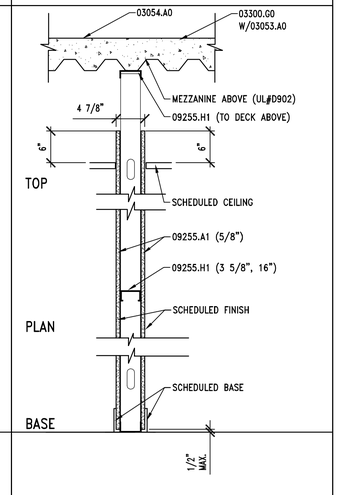


PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
B	AS NOTED	3-5/8"	N.R.	---	---

COMMENT



PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

12" 9" 6" 3" 0 6" 1' 2'

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
A	AS NOTED	3 5/8"	N.R.	---	---

COMMENT

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.G0	CONCRETE OVER METAL DECK – SEE STRUCTURAL
03300.H0	FOUNDATION WALL – SEE STRUCTURAL
03300.N0	CONCRETE CURB
05400.A1	6" STRUCTURAL STEEL STUDS – SEE STRUCTURAL FOR SPACING AND GAUGE
05400.A2	3 5/8" STRUCTURAL STEEL STUDS – SEE STRUCTURAL FOR SPACING AND GAUGE
06105.R3	PLYWOOD PANEL (THICKNESS)
07901.A0	CONT. SEALANT
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H1	METAL STUDS (SIZE, SPACING)
13125.B0	STANDING SEAM METAL ROOF
13125.C1	METAL RAIN GUTTER
13125.E3	RAKE TRIM
13125.F0	METAL WALL PANEL
13125.J0	STRUCTURAL MEMBER – PRIMED AND PAINTED
13125.J1	STRUCTURAL GIRT – PAINTED (SEE GENERAL NOTE#4)
13125.J2	ROOF PURLIN – PAINTED
13125.J3	STRUCTURAL GIRT (SEE GENERAL NOTE #4)
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. CONTRACTOR TO ENSURE THAT METAL BUILDING MANUF. PROVIDES STRUCTURAL GIRTS IN SUFFICIENT QUANTITY TO SUPPORT INTERIOR FINISHES.

A1 WALL TYPES

AE501 | REF. AE101 | SCALE: 1" = 1'-0"

CLIENT

UDOT CONNECTING COMMUNITIES

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SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

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ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

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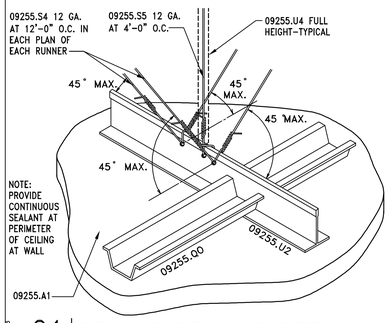
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

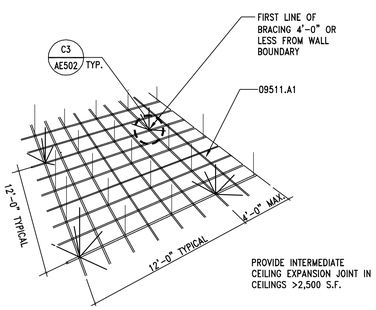
WALL TYPES

AE501



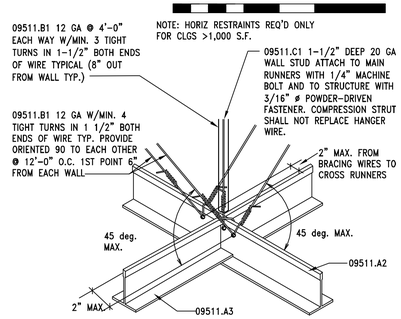
C1 | SEISMIC BRACING DETAIL

AE502 | REF. AE121 | SCALE: NONE



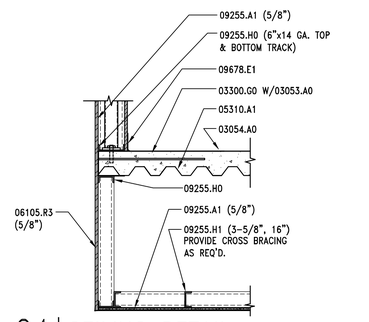
C2 | SEISMIC BRACING DETAIL

AE502 | REF. AE121 | SCALE: NO SCALE



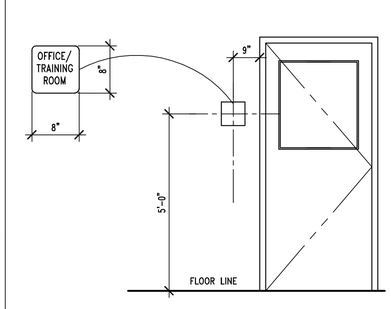
C3 | SEISMIC BRACING DETAIL

AE502 | REF. AE121, AE502 | SCALE: NO SCALE



C4 | CEILING DETAIL

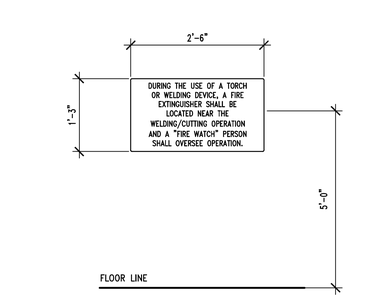
AE502 | REF. AE101 | SCALE: 3/4" = 1'-0"



RE: SPECIFICATION – 10425 FOR MORE INFORMATION

B1 | SIGNAGE "A"

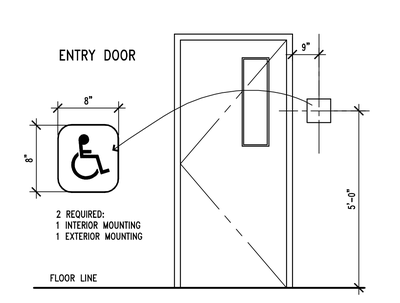
AE502 | REF. AE502 | SCALE: NONE



RE: SPECIFICATION – 10425 FOR MORE INFORMATION

B2 | SIGNAGE "B"

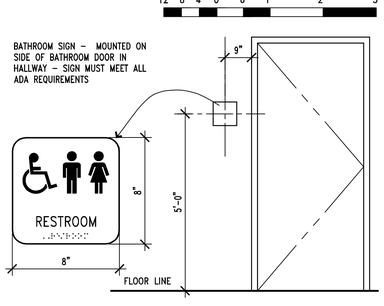
AE502 | REF. AE101 | SCALE: NONE



RE: SPECIFICATION – 10425 FOR INFO.

B3 | SIGNAGE "C"

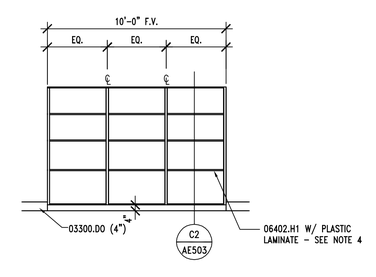
AE502 | REF. AE101 | SCALE: NONE



RE: SPECIFICATION – 10425 FOR INFO.

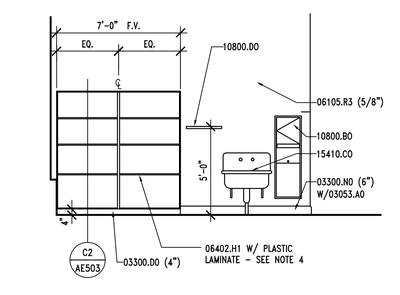
B4 | SIGNAGE "D"

AE502 | REF. AE101 | SCALE: NONE



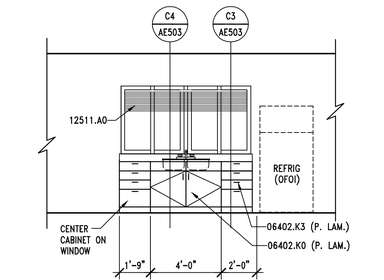
A2 | TYP. SHELVING ELEVATION

AE502 | REF. AE101 | SCALE: 1/4" = 1'-0"



A3 | TYP. SHELVING ELEVATION

AE502 | REF. AE101 | SCALE: 1/4" = 1'-0"



A4 | TRAINING ROOM ELEV.

AE502 | REF. AE101 | SCALE: 1/4" = 1'-0"

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.DO	CONCRETE PAD
03300.GO	CONCRETE OVER METAL DECK – SEE STRUCTURAL
03300.NO	CONCRETE CURB (6")
05310.A1	METAL DECK – SEE STRUCTURAL
06105.R3	PLYWOOD PANEL (THICKNESS)
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.K0	BASE UNIT (FINISH)
06402.K3	BASE UNIT WITH DRAWERS (FINISH)
07901.A0	CONTINUOUS SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.H1	METAL STUDS (SIZE, SPACING)
09255.M2	METAL CORNER BEAD (TYP)
09255.Q0	7/8" METAL FURRING CHANNEL
09255.S4	SPLAY WIRE (SIZE)
09255.S5	VERTICAL WIRES (SIZE)
09255.U2	MAIN TEE
09255.U4	3/4" CONDUIT COMPRESSION BRACE
09511.A1	HEAVY DUTY "T" BAR GRID SYSTEM
09511.A2	CEILING SUSPENSION SYSTEM – MAIN RUNNER
09511.A3	CEILING SUSPENSION SYSTEM – CROSS RUNNER
09511.B1	VERTICAL WIRE HANGER (SIZE)
09511.B2	BRACING WIRE (SIZE)
09511.C1	COMPRESSION STRUTS
09511.D1	METAL ANGLE EDGE
09511.E1	LAY IN ACOUSTICAL CEILING PANEL
09678.E1	RUBBER BASE (SIZE)
10425.C1	ACCESSIBLE SIGNAGE
10800.B0	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
10800.D0	MOP RACK
12511.A0	HORIZONTAL LOUVER BLINDS
15410.C0	UTILITY SINK
15452.A1	DRINKING FOUNTAIN

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR PLASTIC LAMINATE COLORS.

4. PROVIDE QUANITY OF ADJUSTABLE SHELVING AS SHOWN IN ELEVATION.

CLIENT

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GREENDALE UTAH

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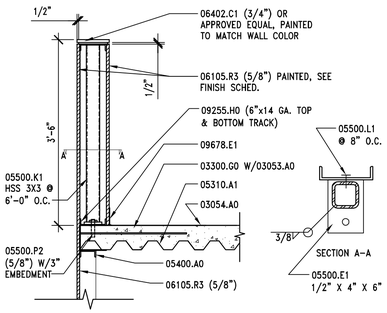
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

SIGNAGE
MISC. ELEVATIONS
AND DETAILS

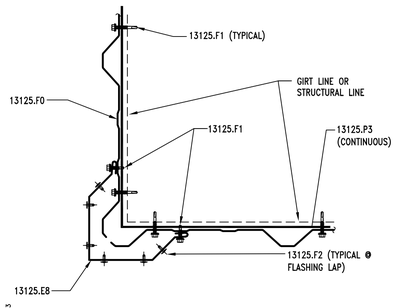
AE502



D3 | LOW PARTITION WALL DTL.

XGD-AE0TD3AE503 | AE503 | REF. AE101 | SCALE: 3/4" = 1'-0"

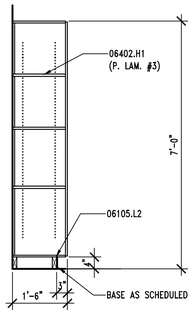
12" 8" 4" 0 6" 1' 2' 3'



D4 | CORNER FLASHING DETAIL

XGD-AE0TD4AE503 | AE503 | REF. AE101, AE201, AE202 | SCALE: 3" = 1'-0"

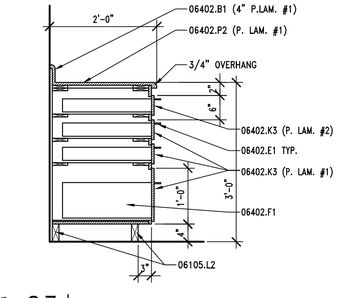
4" 3" 2" 1" 0 2" 4" 8"



C2 | SHELVING SECTION

XGD-AE0TC2AE503 | AE503 | REF. AE502 | SCALE: 1/2" = 1'-0"

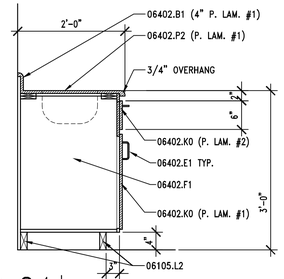
24" 18" 12" 6" 0 1' 2' 4'



C3 | BASE CABINET SECTION

XPC-AE0TC4AE505 | AE503 | REF. AE502 | SCALE: 3/4" = 1'-0"

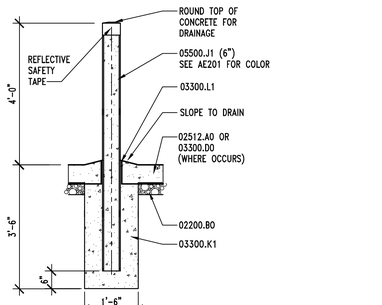
12" 8" 4" 0 6" 1' 2' 3'



C4 | BASE CABINET SECTION

XGD-AE0TC4AE503 | AE503 | REF. AE502 | SCALE: 3/4" = 1'-0"

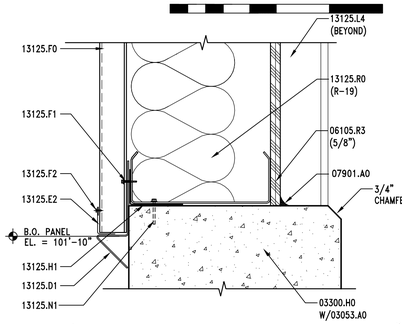
12" 8" 4" 0 6" 1' 2' 3'



B2 | EXT. PIPE BOLLARD DTL.

XGD-AE0TB2AE503 | AE503 | REF. AE101, AE201, AE202 & AE301 | SCALE: 1/2" = 1'-0"

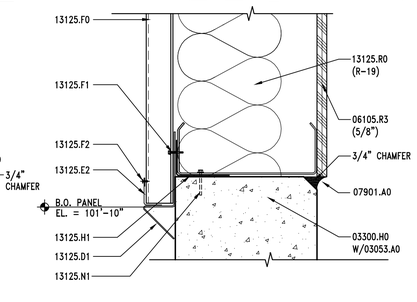
24" 18' 12' 6" 0' 1' 2' 4'



B3 | WALL PANEL @ STEM WALL

XGD-AE0TB3AE503 | AE503 | REF. AE201, AE301, AE311 & AE402 | SCALE: 3" = 1'-0"

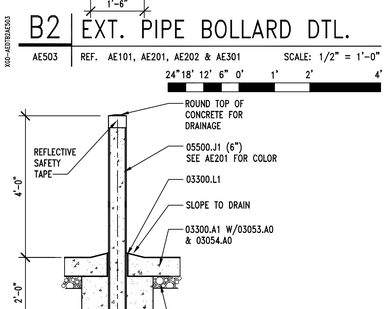
4" 3" 2" 1" 0 2" 4" 8"



B4 | WALL PANEL @ STEM WALL

XGD-AE0T-BA4E503 | AE503 | REF. AE202, AE301 | SCALE: 3" = 1'-0"

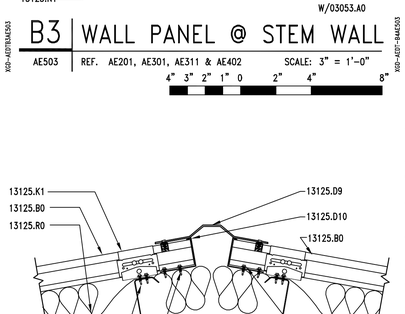
4" 3" 2" 1" 0 2" 4" 8"



A2 | INT. PIPE BOLLARD DTL.

XGD-AE07A2AE503 | AE503 | REF. AE101, AE201, AE202 & AE301 | SCALE: 1/2" = 1'-0"

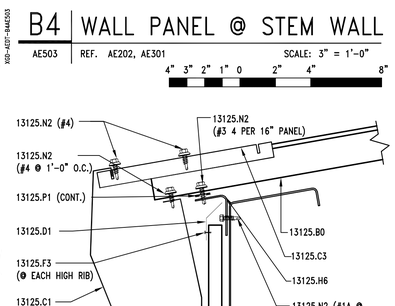
24" 18' 12' 6" 0' 1' 2' 4'



A3 | RIDGE DETAIL

XPC-AE07A3AE503 | AE503 | REF. AE301 | SCALE: 1 1/2" = 1'-0"

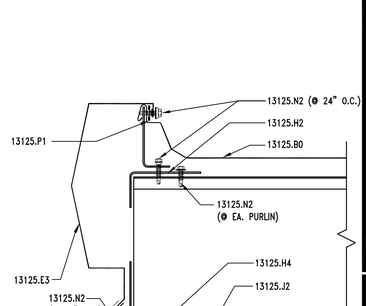
8" 6" 4" 2" 0 4" 8" 1'-4"



A4 | GUTTER DETAIL

XGD-AE07A4AE503 | AE503 | REF. AE311 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



A5 | STARTING RAKE DETAIL

XGD-AE07A5AE503 | AE503 | REF. AE311 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

KEYNOTES

02200.B0	GRAVEL BASE
02512.A0	ZERO VOIDS ASPHALT PAVING (THICKNESS)
03053.A0	CONCRETE WATERPROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB – ON – GRADE – SEE STRUCTURAL
03300.D0	CONCRETE PAD (HEIGHT)
03300.G0	CONCRETE OVER METAL DECK – SEE STRUCTURAL
03300.H0	FOUNDATION WALL – SEE STRUCTURAL
03300.K1	CONCRETE PIPE BASE
03300.L1	30# FELT
05310.A1	METAL DECK – SEE STRUCTURAL
05400.A0	STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SIZE, SPACING AND GAUGE
05500.E1	STEEL PLATE – SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) – GALV. & PAINTED
05500.K1	TUBE STEEL (SIZE, SPACING)
05500.L1	HILTI X-EDNI SHOT PIN (SPACING)
05500.P2	EPOXY ANCHOR (SIZE)
06105.L2	BLOCKING AS REQUIRED
06105.R3	PLYWOOD PANEL (THICKNESS)
06402.B1	PLASTIC LAMINATE BACKSLAPSH (HEIGHT)
06402.C1	PAINT GRADE WOOD CAP (THICKNESS)
06402.E1	WIRE PULL
06402.F1	PROVIDE WHITE MELAMINE FINISH @ ALL INTERIOR SURFACES
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.K0	BASE UNIT (FINISH)
06402.K3	BASE UNIT W/DRAWERS (FINISH)
06402.P2	COUNTERTOP – P. LAM. ON 3/4" PLYWOOD
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGAURD SYSTEM
07901.A0	CONT. SEALANT
09255.A1	GYPSUM BOARD
09255.A2	WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09300.A1	FLOOR TILE – SEE FINISH SCHEDULE
09300.B1	WALL TILE – SEE FINISH SCHEDULE
09300.C0	TILE BASE
09300.D1	BULLNOSE TRIM UNIT
09300.E1	1/2" X 6" TILE TRIM PIECE – SEE FINISH SCHEDULE
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
09678.E1	RUBBER BASE
13125.B0	STANDING SEAM METAL ROOF
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.C3	GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.D1	METAL DRIP FLASHING
13125.D9	FLEXIBLE ROOF RIDGE
13125.D10	ROOF RIDGE SUPPORT
13125.E2	PANEL TRIM
13125.E3	RAKE TRIM
13125.E4	RAKE SLIDE
13125.E8	CORNER TRIM
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.F3	POP RIVET
13125.H1	METAL ANGLE
13125.H2	HIGH RAKE SUPPORT ANGLE
13125.H4	4" X 4" CONTINUOUS ANGLE
13125.H6	EAVE SUPPORT ANGLE
13125.H7	EAVE STRUT
13125.J2	ROOF PURLIN – PAINTED
13125.K1	LOW PANEL CLIP
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.N1	ANCHOR
13125.N2	FASTENER (SPACING)
13125.P1	DOUBLE BEAD TAPE SEALER
13125.P2	SEALANT
13125.P3	THERMAL BREAK
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

CLIENT

UDOT CONNECTING COMMUNITIES

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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

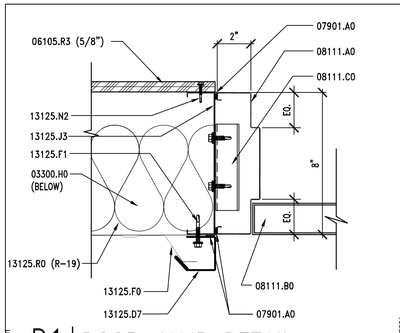
MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

MISC. DETAILS

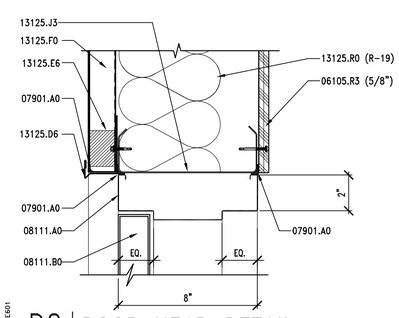
AE503



D1 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

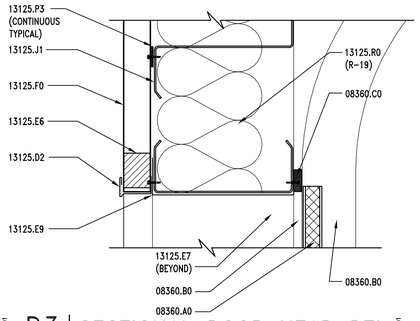
4" 3" 2" 1" 0 2" 4" 8"



D2 | DOOR HEAD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

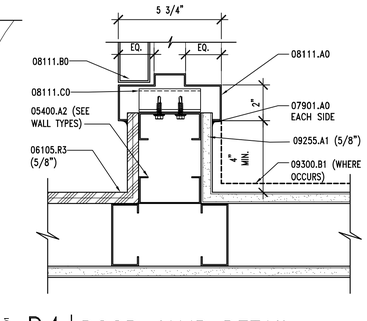
4" 3" 2" 1" 0 2" 4" 8"



D3 | SECTIONAL DOOR HEAD DTL.

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

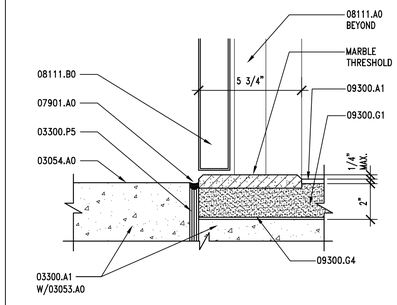
4" 3" 2" 1" 0 2" 4" 8"



D4 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

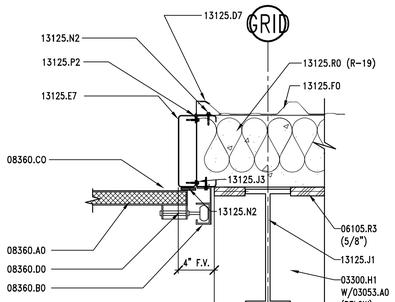
4" 3" 2" 1" 0 2" 4" 8"



C1 | MARBLE THRESHOLD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1' -0"

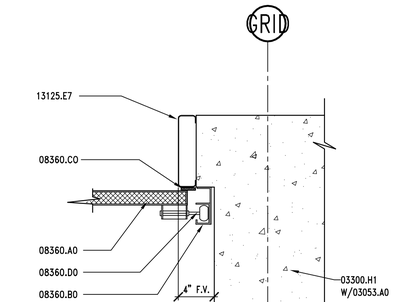
4" 3" 2" 1" 0 2" 4" 8"



C2 | SECTIONAL DOOR JAMB DTL.

AE601 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

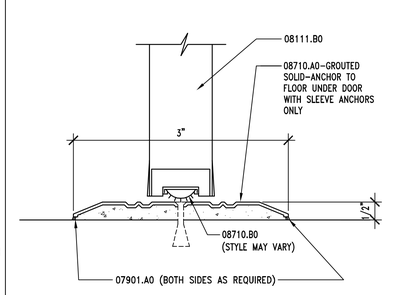
8" 6" 4" 2" 0 4" 8" 1'-4"



C3 | SECTIONAL DOOR JAMB DTL.

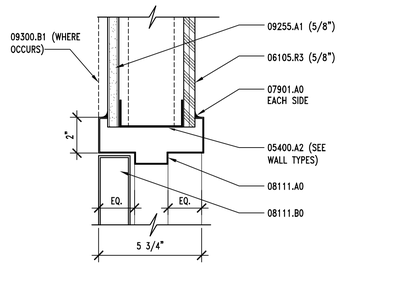
AE601 | REF. AE601 | SCALE: 1 1/2 = 1'-0"

8" 6" 4" 2" 0 4" 8" 1'-4"



B1 | THRESHOLD DETAIL

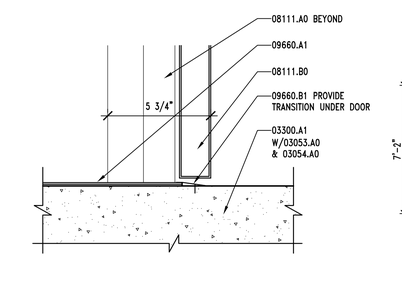
AE601 | REF. AE601 | SCALE: NONE



B2 | DOOR HEAD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1' -0"

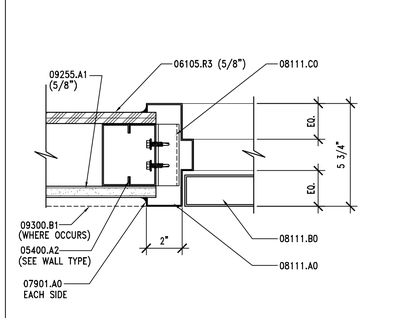
4" 3" 2" 1" 0 2" 4" 8"



B3 | VCT-CONCRETE TRANSITION

AE601 | REF. AE601 | SCALE: 3" = 1' -0"

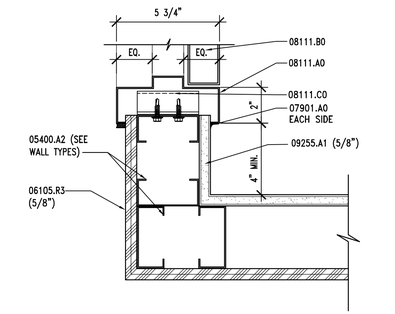
4" 3" 2" 1" 0 2" 4" 8"



A1 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

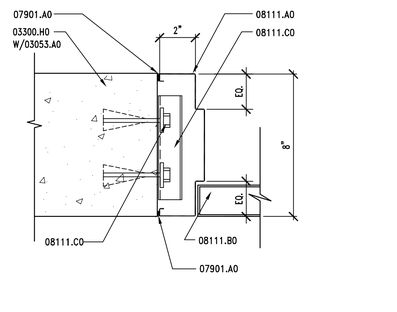
4" 3" 2" 1" 0 2" 4" 8"



A2 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



A3 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

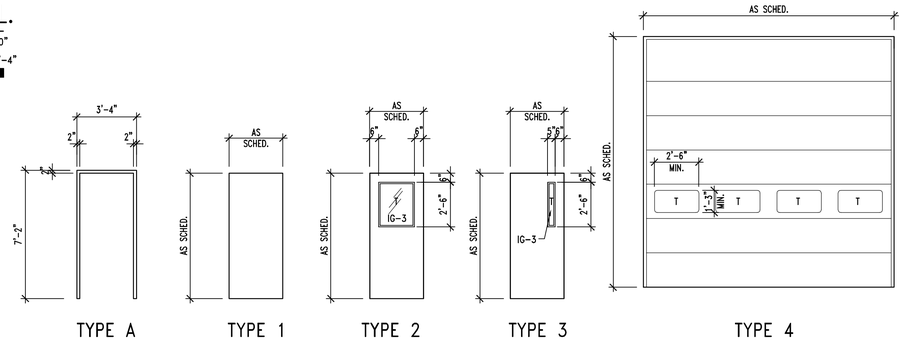
4" 3" 2" 1" 0 2" 4" 8"

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB ON GRADE - SEE STRUCTURAL
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.H1	CONCRETE PEIR - SEE STRUCTURAL
03300.P5	ISOLATION JOINT
05400.A2	STRUCTURAL STEEL STUDS - SEE STRUCTURAL DRAWINGS FOR SIZE, SPACING AND GAUGE
06105.R3	PLYWOOD PANEL (THICKNESS)
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08111.C0	JAMB ANCHOR
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0	WEATHERSTRIPPING
08360.D0	DOOR GUIDE
08710.A0	THRESHOLD
08710.B0	DOOR SWEEP
09255.A1	GYPSUM BOARD (THICKNESS)
09300.A1	FLOOR TILE - SEE FINISH SCHEDULE
09300.B1	WALL TILE - SEE FINISH SCHEDULE
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
09660.A1	VINYL COMPOSITION TILE
09660.B1	VINYL TRANSITION STRIP
13125.D2	METAL HEAD FLASHING
13125.D6	DOOR HEAD FLASHING
13125.D7	JAMB FLASHING
13125.E6	WALL CLOSURE
13125.E7	METAL OUTSIDE CLOSURE
13125.E9	FRAMED OPENING HEADER
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.J1	STRUCTURAL GIRT - PAINTED
13125.J3	STRUCTURAL GIRT
13125.N2	FASTENER (SPACING)
13125.P2	SEALANT
13125.P3	THERMAL BREAK
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT
2. DO NOT SCALE DRAWINGS.
3. SEE SPECIFICATIONS FOR GLAZING SCHEDULE.
4. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS



DOOR FRAME TYPES

DOOR TYPES

DOOR SCHEDULE

DOOR #	ROOM #	DOORS TYPE	DOORS WIDTH	DOORS HEIGHT	DOORS THICK.	DOORS MATERIAL	DOORS FINISH	DOORS GLASS	FRAMES TYPE	FRAMES MATERIAL	FRAMES FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH.	LABEL	REMARKS
D101A	101	3	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	D2/AE601	A3 & D1/AE601	B1/AE601	-	INSULATED
D101B	101	4	14'-0"	14'-0"	-	ST	-	T	-	ST	P. FIN	D3/AE601	C2 & C3/AE601	-	-	SECTIONAL INSULATED DOOR
D101C	101	4	14'-0"	14'-0"	-	ST	-	T	-	ST	P. FIN	D3/AE601	C2 & C3/AE601	-	-	SECTIONAL INSULATED DOOR
D101D	101	4	14'-0"	14'-0"	-	ST	-	T	-	ST	P. FIN	D3/AE601	C2 & C3/AE601	-	-	SECTIONAL INSULATED DOOR
D101E	101	4	14'-0"	14'-0"	-	ST	-	T	-	ST	P. FIN	D3/AE601	C2 & C3/AE601	-	-	SECTIONAL INSULATED DOOR
D101F	101	4	14'-0"	14'-0"	-	ST	-	T	-	ST	P. FIN	D3/AE601	C2 & C3/AE601	-	-	SECTIONAL INSULATED DOOR
D101G	101	3	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	D2/AE601	A3 & D1/AE601	B1/AE601	-	INSULATED
D103A	103	1	3'-0"	7'-0"	1 3/4"	HM	PT	-	A	HM	PT	B2/AE601	A1 & D4/AE601	C1/AE601	-	-
D104A	104	2	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	B2/AE601	A1 & A2/AE601	B3/AE601	-	-

HM = HOLLOW METAL P. FIN. = PRE-FINISHED T = TEMPERED ST = STEEL PT = PAINTED

CLIENT

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GREENDALE UTAH

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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

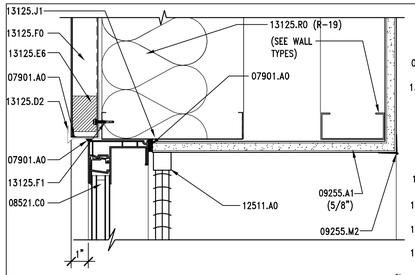
MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

DOOR SCHEDULE
DOOR TYPES,
AND DETAILS

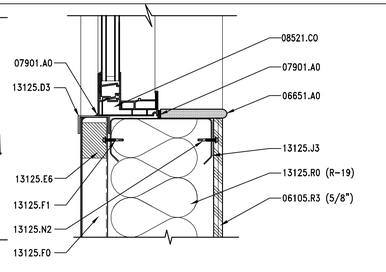
AE601



D1 WINDOW HEAD DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

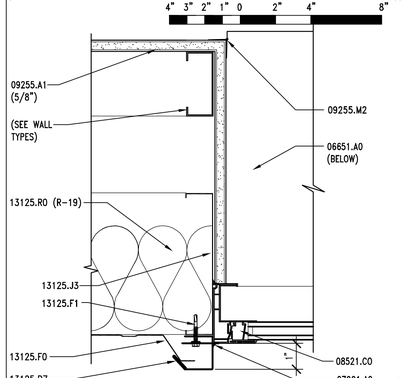
4" 3" 2" 1" 0 2" 4" 8"



D2 WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

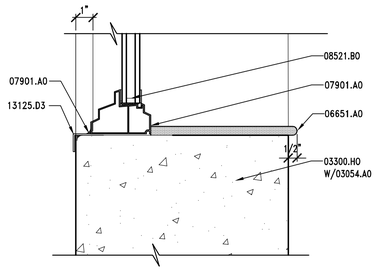
4" 3" 2" 1" 0 2" 4" 8"



C1 WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

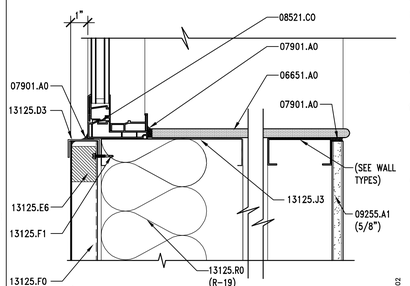
4" 3" 2" 1" 0 2" 4" 8"



C2 WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

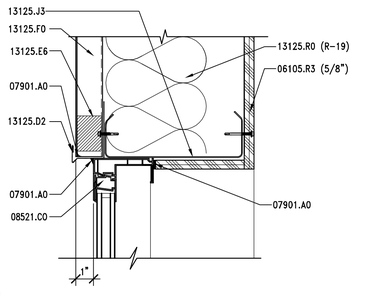
4" 3" 2" 1" 0 2" 4" 8"



B1 WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

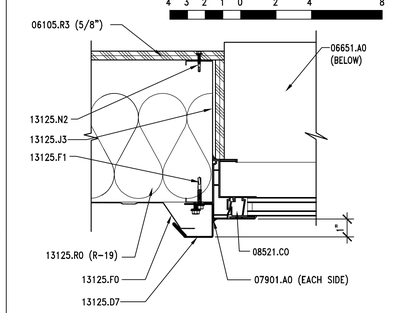
4" 3" 2" 1" 0 2" 4" 8"



B2 WINDOW HEAD DETAIL

AE602 | REF. AE602 | SCALE: 3' = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



A1 WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

KEYNOTES

03054.A0 OLIOPHOBIC TOPICAL CONCRETE SEALER
03300.H0 FOUNDATION WALL – SEE STRUCTURAL

06105.R3 PLYWOOD PANEL (THICKNESS)
06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL

07901.A0 CONT. SEALANT

08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL
08800.G2 TEMPERED GLASS

09255.A1 GYPSUM BOARD (THICKNESS)
09255.M2 METAL CORNER BEAD (TYP)

12511.A0 HORIZONTAL LOUVER BLINDS

13125.D2 METAL HEAD FLASHING
13125.D3 METAL SILL FLASHING
13125.D7 JAMB FLASHING
13125.E6 WALL CLOSURE
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.J3 STRUCTURAL GIRT
13125.N2 FASTENER (SPACING)
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS

3. ALL FLASHING TO BE PAINTED TO MATCH WINDOW FRAMES

4. SEE SPECIFICATIONS FOR ALL GLAZING TYPES.

5. ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS C: FLAME SPREAD 76–200; SMOKE-DEVELOPED 0–450. EXCEPTION: MATERIALS, OTHER THAN TEXTILES, TESTED IN ACCORDANCE WITH SECTION 803.2.

6. AS PER SPECIFICATION SECTION 09900.1.2.B CONTRACTOR TO FIELD PAINT ALL EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT.

ROOM FINISH SCHEDULE

ROOM NAME & NUMBER		FLOOR	BASE	WALLS				DOOR/FRAMES	P. LAM.	CEILING	REMARKS
				WEST	EAST	NORTH	SOUTH				
101	REPAIR GARAGE	F1	–	W1 & W5	W1 & W5	W1, W3 & W5	W1 & W5	D1	–	C3	–
102	STORAGE AREA	F1	–	W1 & W5	W1 & W3	W1 & W5	–	–	P3	C3	–
103	RESTROOM	F3	B3	W2 & W4	W2 & W4	W2 & W4	W2 & W4	D2	–	C1	USE BULLNOSE AT TOP OF WAINSCOT
104	TRAINING ROOM/OFFICE	F2	B1	W2	W2	W2	W2	D2	P1 & P2	C4	–
201	MEZZANINE	F1	B2	W1	W1 & W5	W1 & W5	W1	–	–	C3	PAINT LOW WALL, CAP & DECK ANGLE TO MATCH DOOR COLOR #1

ROOM FINISH LEGEND

FLOOR

F1. CONCRETE FLOOR, WITH INTEGRAL ANIT HYDRO ADMIXTURE AND OLIOPHOBIC TOPICAL SEALER.

F2. 12" x 12" VINYL COMPOSITION TILE – ARMSTRONG STANDARD EXCELON IMPERIAL TEXTURE #51858–SANDRIFT WHITE OR EQUAL

F3. 2" x 2" CERAMIC TILE – DALTILE, KEYSTONES, MEXICAN SAND SPECKLE W/MAPEI GROUT #05 – CHAMOIS OR EQUAL

BASE

B1. 4" RUBBER BASE – JOHNSONITE #49 – BEIGE OR EQUAL

B2. 4" RUBBER BASE – JOHNSONITE #38 – PEWTER OR EQUAL

B3. 2" x 2" COVED TILE BUILT UP BASE – DALTILE, #MB5B – KEYSTONES, MEXICAN SAND SPECKLE OR EQUAL

WALL

W1. PLYWOOD PANEL: CDX GRADE PLYWOOD – PAINTED BENJAMIN MOORE #2127–60 – FEATHER GRAY OR EQUAL

W2. GYPSUM BOARD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL

W3. GYPSUM BOARD – PAINTED BENJAMIN MOORE #2127–60 – FEATHER GRAY OR EQUAL

W4. 4 1/4" x 4 1/4" CERAMIC WALL TILE – DALTILE #X735 – ALMOND – MATTE FINISH W/1/2" x 6" FLAT TOP LINER – DALTILE #K174 – MEXICAN SAND – SEMI–GLOSS FINISH OR EQUAL W/MAPEI GROUT #39 – IVORY OR EQUAL

W5. METAL BUILDING EXPOSED STRUCTURE – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL.

DOOR & FRAMES

D1. PAINTED – BENJAMIN MOORE #2124–30 DEEP SILVER OR EQUAL

D2. PAINTED – ICI #427 – DEERFIELD OR EQUAL

PLASTIC LAMINATE

P1. COUNTER TOP/CABINET FACE – WILSONART #4781–60 SUNSTONE OR EQUAL

P2. CABINET FACE – WILSONART #4794–60 WINDSWEPT BRONZE OR EQUAL

P3. SHELVING – WILSONART #073–60 PEWTER OR EQUAL

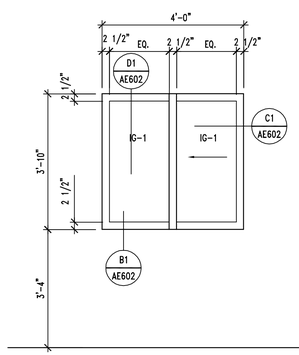
CEILING

C1. GYPSUM BOARD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL

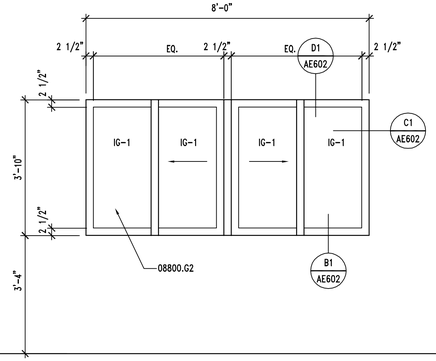
C2. GYPSUM BOARD – PAINTED BENJAMIN MOORE #2127–60 – FEATHER GRAY OR EQUAL

C3. METAL BUILDING EXPOSED STRUCTURE – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL.

C4. ARMSTRONG ALTIMA WITH TEGULAR EDGE OR EQUAL COLOR: WHITE



TYPE A



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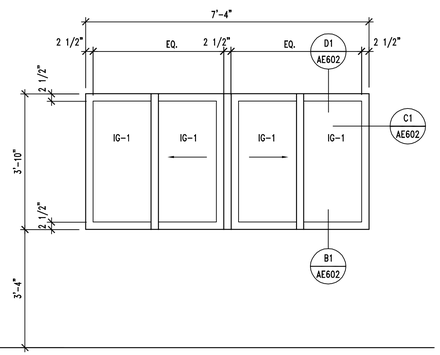

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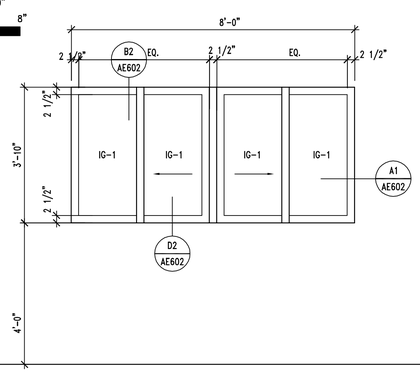

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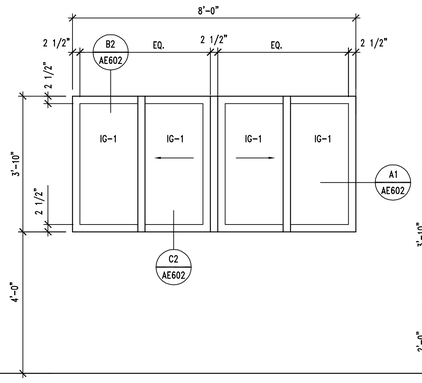
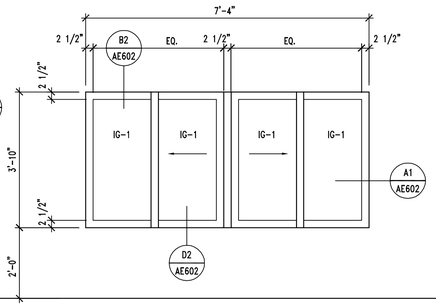


TYPE E



TYPE F

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR–44 @ M.P. 0.5 ±
GREENDALE UTAH

DESIGNER

ARCHIPLEX GROUP
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F:(801) 961–7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95–310818–0301
LICENSED ARCHITECT

ISSUE

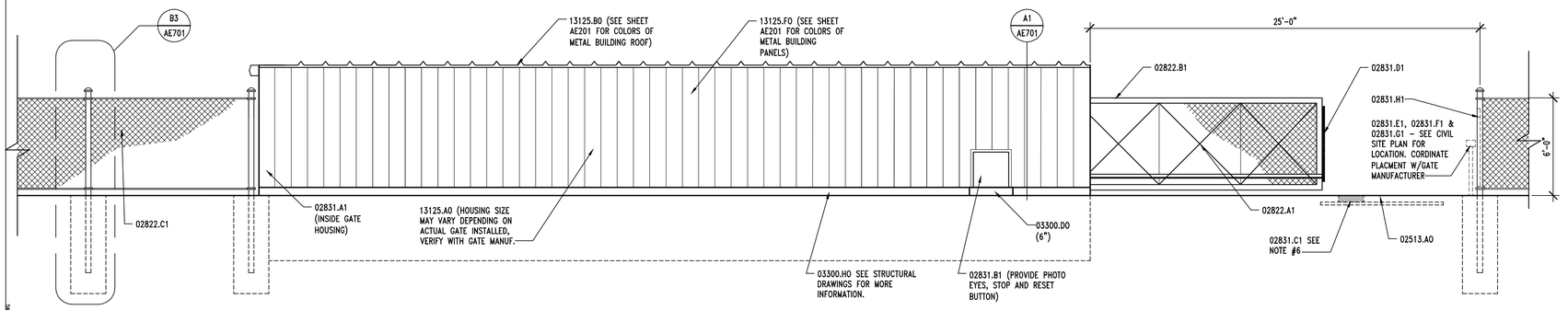
MARK	DATE	DESCRIPTION
	02–2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

WINDOW FRAME TYPES, FINISH SCHEDULE AND DETAILS

AE602



D1 GATE HOUSING ELEVATION

AE701 | REF. AE701 | SCALE: 1/4" = 1' -0"

4' 3' 2' 1' 0' 2' 4' 8'

GENERAL NOTES

02512.A0	PAVEMENT AS SCHEDULED
02513.A0	ASPHALT CONCRETE PAVING
02822.A1	CANTILEVERED GATE
02822.B1	2" ≠ GATE FRAME
02822.C1	NEW 6' HIGH CHAIN LINK FENCE – SEE CIVIL
02822.D1	TENSION TIE WIRE
02822.E1	LINE POSTS @ 10'-0" O.C.
02822.F1	2" DIAMOND MESH STEEL FABRIC
02831.A1	PHYSICAL TRAVEL STOP
02831.B1	HYDRAULIC SLIDE GATE OPERATOR W/AUDIO ALARM
02831.C1	UNDERGROUND OBSTRUCTION LOOP
02831.D1	PROVIDE GATE SENSORS
02831.E1	KEY PAD ACCESS ON PEDESTAL
02831.F1	CARD READER ON PEDESTAL
02831.G1	FIRE ACCESS & KNOX BOX ON PEDESTAL
02831.H1	GATE RECEIVER POCKET
03300.C1	FOOTING SEE STRUCTURAL
03300.D0	CONCRETE CURB (SIZE)
03300.H0	CONCRETE CURB AND FOUNDATION WALLS
03300.N0	CONCRETE CURB – SEE STRUCTURAL
05500.J1	PIPE BOLLARD – DETAIL B2/AE503
05500.K0	STEEL TUBES – SEE STRUCTURAL
13125.A0	GATE HOUSING METAL BUILDING
13125.B0	STANDING SEAM METAL ROOF
13125.F0	METAL WALL PANEL
13125.H1	BENT PLATE ROOF SUPPORT

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

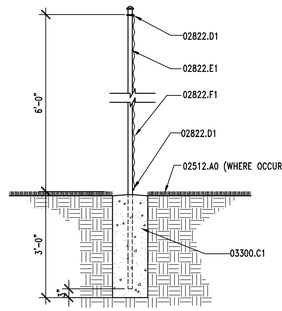
2. DO NOT SCALE DRAWINGS.

3. SEE ELECTRICAL DRAWINGS FOR ALL POWER & CONTROL INFORMATION.

4. ALL METAL PANELS SYSTEMS FOR ANCILLARY PUMP ENCLOSURE AND GATE ENCLOSURE TO MATCH SPECIFICATION REQUIREMENTS OF SECTION 13125.

5. CONTRACTOR TO PROVIDE ALL REQUIRED CODE & SAFETY DEVICES AS REQIRED BY GATE MANUFACTURER.

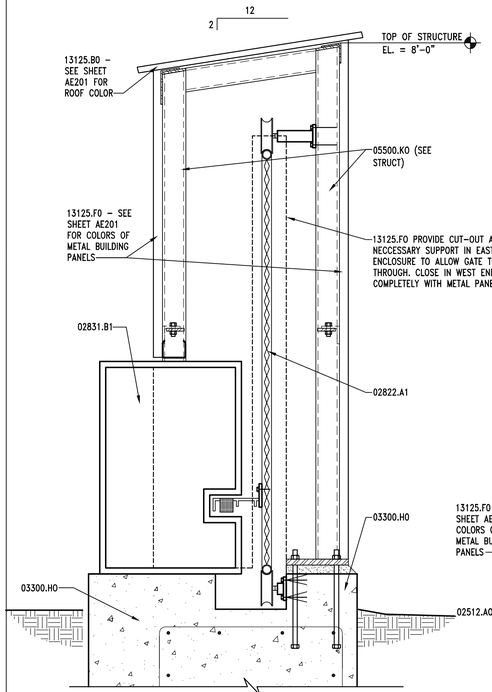
6. INSTALL LOOP APPROPRIATE DISTANCE BELOW PAVEMENT FOR LARGE TRUCKS. COORDINATE LOCATION W/OWNER & ARCHITECT BEFORE INSTALLATION



B3 CHAIN LINK FENCE DETAIL

AE701 | REF. AE701 | SCALE: 1/2" = 1'-0"

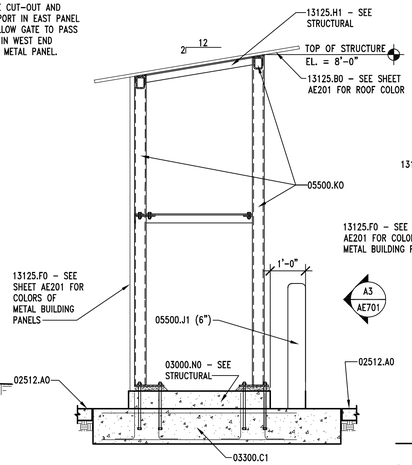
24" 18' 12' 6" 0' 1' 2' 4'



A1 GATE HOUSING

AE701 | REF. AE701 | SCALE: 3/4" = 1'-0"

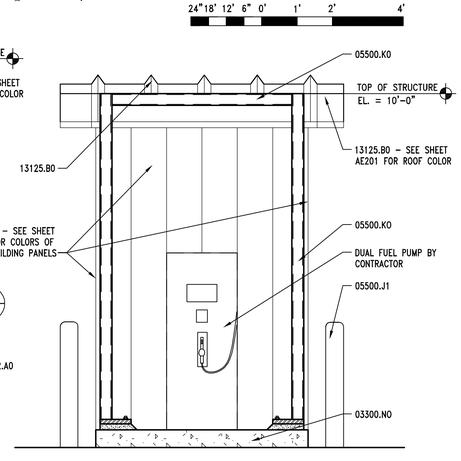
12" 9" 6" 3" 0 6" 1' 2'



A2 SECTION VIEW FUEL ISLAND

AE701 | REF. AE701 | SCALE: 1/2" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'



A3 FUEL ISLAND ELEVATION

AE701 | REF. AE701 | SCALE: 1/2" = 1'- 0"

10' 5' 0' 5' 10' 20'

CLIENT

UDOT CONNECTING COMMUNITIES

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SR-44 @ M.P. 0.5 ±
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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
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LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
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DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2008

SHEET TITLE

GATE PLAN, GATE HOUSING, ELEVATION AND FENCE DETAILS

AE701

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code — International Building Code 2006
2. Roof Snow Load
   a. Ground Snow Load — P_g = 78 psf
   b. Snow Importance Factor — I_s = 1.0
   c. Snow Exposure Coefficient — C_e = 1.0
   d. Thermal Exposure Coefficient — C_t = 1.0
   e. Roof Snow Load — $P_f = 0.7 * C_e * C_t * I_s * P_g$ = 55 psf plus Snow Drift
3. Mezzanine Floor Loads
   a. Dead — 54 psf
   b. Live — 125 psf
4. Seismic Loads
   a. Short Period Mapped Spectral Acceleration — S_S = 0.333
   b. Soil Site Class — B
   c. Short Period Site Coefficient — F_a = 1.0
   d. 5% Damped Design Spectral Response Acceleration — $S_{DS} = 2/3 * F_a * S_S$
   e. Seismic Importance Factor — I_E = 1.00
   f. Response Modification Coefficient — R = 5.0
   g. Seismic Response Coefficient — $C_s = S_{DS} * I_E / R$
   h. W — Dead Loads of Structure
   i. Building Seismic Design Category — D
   j. System Overstrength Factor — 3.0
   k. Deflection Amplification Factor — 3.0
   l. Base Shear — $V = C_S * W = 0.044$ W (Strength Design)
4. Wind Loads
   a. Wind Velocity (3 Second Gust) — 90 mph
   b. Exposure Type — C
   c. Wind Importance Factor — 1.00

FOUNDATION

1. Soils Investigation Report: None.
2. Soil bearing pressure: 1500 psf. Assumed by Owner.
3. Frost Protection: 48 inches minimum.
4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in the soils report.

EARTHWORK

1. Clearing: The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
2. Proof roll and/or compact the entire building pad area with normal compaction equipment, in the presence of a qualified soils engineer to achieve, or verify the existence of, zero deflection and zero flexure.
3. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3 inches and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8 inches in uncompacted thickness.
4. Floor slabs thicknesses shall be required by the plans and underlain by a granular layer at least 4 inches thick. The granular layer shall have a maximum size less than 1 inch with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.
5. Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Admixtures:
      i. Air-entraining admixtures comply with ASTM C 260 (when used).
      ii Calcium chloride shall not be added to the concrete mix.
   e. Type I cement complying with ASTM C-150 shall be used for all concrete.
   f. The water/cement ratios shall meet the requirements of ACI 318.
   g. Provide air entraining as recommended by ACI 318.
   h. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
   a. Footings ..... 3,000 psi
   b. Interior Slabs on Grade ..... 4,000 psi
   c. Walls ..... 4,000 psi
   d. Normal Weight concrete over Steel Deck ..... 3,500 psi
   e. All Site Concrete ..... 4,000 psi
3. 5 1/2" thick (total thickness) normal weight concrete slab shall be poured over the steel deck. Reinforce slab with 6" x 6" - W2.1/W2.1 welded wire fabric minimum, unless noted otherwise. Welded Wire Fabric shall be placed 1" to 1-1/2" below the top of the slab.
   a. At contractor's option, the welded wire fabric may be substituted with 100% virgin polypropylene synthetic fiber containing no reprocessed olefin materials and specifically manufactured to an optimum gradation for use as concrete secondary reinforcement. Application shall be 1.5 lbs minimum per cubic yard.
4. Only one grade or type of concrete shall be poured on the site at any given time.
5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
   b. Suspended slabs shall be re-supported after form removal until concrete reaches its 28-day specified compressive strength.
6. Reinforcement shall have the following concrete cover:
   Cast-in-place Concrete: ..... Clear Cover
   a. Cast against and permanently exposed to earth ..... 3"
   b. Formed concrete exposed to earth or weather:
      #6 thru #18 bars ..... 2"
      #5 and smaller bars ..... 1-1/2"
   c. Concrete not exposed to weather or in contact with ground:
      Slabs, Walls, Joists; #11 bars and smaller ..... 3/4"
      Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals ..... 1-1/2"
7. Construction Joints and Control Joints:
   a. Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
   b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
      i. Saw cut a depth of 1/4 the thickness of the slab
      ii. Tooled joints a depth of 1/4 the thickness of the slab
   c. Install construction or control joints in slabs on grade at a spacing not to exceed 75 times the slab thickness in any direction for reinforced slabs, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
   d. In exposed areas, install construction or control joints in concrete over metal deck at a spacing not to exceed 10 feet o/c. Coordinate location with architectural drawings.
8. Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
9. Detailing:
   a. Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" on sheet S601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
   d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
   g. See detail B2/SS01 for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

EPOXY

1. Epoxy shall be "HIT HY 150 MAX" or "HIT RE 500 " by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epcon Injection System" by Ramset/Redhead, "Power-Fast" by Rawl, or approved equal.
2. All drilled holes shall be 1/8 inch larger than the bar or anchor bolt being installed.
3. After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
4. Follow all manufacturer's recommendations for epoxy installation.

STRUCTURAL STEEL

1. Material:
   a. Other shapes & Plates — ASTM A36
   b. Deformed Bar Anchors (DBA) — ASTM A496
   c. Bolted Connections: — ASTM A325
2. Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
   a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
   b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1,
   c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
   d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
   e. AISC "Seismic Provision for Structural Steel Buildings"
3. Welding
   a. All welding and cutting shall be performed by AWS certified welders.
   b. Use E-70 XX or as noted otherwise.
   c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
   d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors(HSAs).
   e. Do not weld anchor bolts, including "tack" welds.
   f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
4. Bolted Connections:
   a. Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition.
   b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.
   c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
   d. Bolts, nuts and washers shall not be reused.

METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the deck under a three span condition.
3. All deck supporting members shall be dry before welding.
4. Crimp seams before button punching or welding interlocking seams.
5. Where deck is to receive sprayed-on fire proofing, deck shall be coated, as required, with special paint that will allow the sprayed-on fire proofing to adhere to the deck.

   Steel Floor Deck
   a. Steel floor deck shall be 3" deep X 18 gauge minimum Non-Composite Formlock deck with interlocking side seams and #10 screws at 8" o.c. with the following properties:

	18 Gauge
Minimum S ($in^3/_{ft}$) =	0.767
Minimum I ($in^4/_{ft}$) =	1.203

   b. Steel deck with 5 1/2" thick (overall thickness) normal weight concrete slab shall have a minimum diaphragm shear capacity of 450 lbs/ft. for a 1 deck span.
   c. Deck Attachment:
      i. Frame Fastening: #12 STS @ 36/4 Pattern.
      ii Stitch Fastening: (1) # 10 STS per plan.
   d. Attach interlocking seams with 3/16" Ø button punch at 18" o.c., or with 1 1/2" top seam weld at 36" o.c. or with Verco PunchLok System at 36" o.c. or with ASC DeltaGrip Sytsem at 36"o/c Closer spacings may be used to develop minimum shear requirements.
   e. Provide a 2-inch minimum bearing at supports.

COLD-FORMED STEEL

1. All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI).
2. Light Gauge Steel Framing:
   a. Galvanized steel must meet the minimum requirements of ASTM A446 Grade D (Fy = 50 ksi) for 12, 14 and 16-gauge and ASTM A446 Grade A (Fy = 33 ksi) for 18-gauge and lighter. Galvanized coatings must meet the ASTM A525 specification.
   b. Follow all manufacturers' recommendations for the use of these products.
   c. Unless noted otherwise, all welded connections shall be done according to AWS standards.
   d. All interior non-bearing steel-stud walls that extend above the ceiling but do not attach to the structure above shall be brace with diagonal metal-stud braces (45 degrees). The kl/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" o/c. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used.
3. Prefabricated Systems: Submit complete shop drawings and calculations of all elements for review. Shop Drawings shall bear the stamp of a Professional Engineer registered in the State of Utah.

PREFABRICATED METAL BUILDING

1. The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
2. Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the State of Utah. Complete calculations shall be submitted with the shop drawings.
3. Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect and Engineer.
4. The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and lateral systems.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with out special inspection. Items requiring special inspection and quality assurance are:

1. Soils (IBC 1704.7)
   a. Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the soils report.
   b. During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the soils report.
   c. The special inspector shall determine that the in-place dry density of the compacted fill material complies with the soils report.
      i. Continuous Footing Backfill: At each compacted backfill layer, at least one test for each 25 linear feet or less of wall length, but no fewer than 2 tests.
      ii. Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.
   d. See specifications for further requirements.
2. Concrete placement (IBC Section 1704.4)
   a. Continuous special inspection shall be provided
   b. Cylinders, slump, temperature and air-entrainment shall be done for every 50 cubic yards or each day's production if less than 50 cubic yards.
   c. See specifications for further concrete testing requirements.
3. Bolts installed in concrete (IBC Section 1704.4)
   a. All bolts shall be inspected prior to and during concrete placement.
4. Embeds and Inserts installed in concrete (IBC Section 1704.4)
   a. All embeds and inserts shall be inspected prior to and during concrete placement.
5. Concrete reinforcing steel placement (IBC Section 1704.4)
   a. All Reinforcing shall be inspected prior to concrete placement.
6. Structural welding, including steel deck (IBC 1704.3)
   a. Periodic special inspection of metal floor prior to concrete placement and roof decks.
   b. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
   c. Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
   d. Continuous special inspection of complete and partial penetration welds.
7. High Strength bolted connections (IBC Section 1704.3.3)
   a. Periodic special inspection of bearing type connections.
   b. Continuous special inspection of slip critical connections. Special inspector shall be present to observe the pre-installation testing and calibration procedures.
8. Epoxy Anchors (IBC Section 1704.13)
   a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

1. Prefabricated Metal Building

LEGEND OF MARKS AND ABREVIATIONS

AB	ANCHOR BOLT(S)	JST	JOIST
ABV	ABOVE		
ALT	ALTERNATE	k	KIP(S) = 1000 POUNDS
APPROX.	APPROXIMATE	KLF	KIPS PER LINEAL FOOT
ARCH	ARCHITECT(URAL)	KSF	KIPS PER SQUARE FOOT
BLDG	BUILDING	LBS	POUNDS
BLW	BELOW	LF	LINEAL FOOT
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOT	BOTTOM	LLV	LONG LEG VERTICAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN		
		MAX	MAXIMUM
CC	CENTER-TO CENTER	MECH	MECHANICAL
C.J.	CONST/CONTROL JOINT	MFR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONST	CONSTRUCTION		
CTR	CENTER	NIC	NOT IN CONTRACT
CW-x	CONCRETE WALL	NTS	NOT TO SCALE
DBA	DEFORMED BAR ANCHOR	O.C.	ON CENTER
DBE	DECK BEARING ELEVATION	O.F.	OUTSIDE FACE
DBL	DOUBLE	OPNG	OPENING
DET	DETAIL	OPP	OPPOSITE
DIA	DIAMETER		
DIM	DIMENSION	PCF	POUNDS PER CUBIC FOOT
DN	DOWN	PL	PLATE
DWG	DRAWING	PLF	POUNDS PER LINEAL FOOT
DWL	DOWEL	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
EA	EACH	PT	POINT
E.F.	EACH FACE		
ELEC	ELECTRICAL	REINF	REINFORCING
ELEV	ELEVATION	REQD	REQUIRED
EQUIP	EQUIPMENT		
EQ	EQUAL		
E.W.	EACH WAY	SHT	SHEET
EXST	EXISTING	SI	SPECIAL INSPECTION
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SOG	SLAB-ON-GRADE
		SQ	SQUARE
FC-x	CONTINUOUS FOOTING MARK	STAG	STAGGERED
F.D.	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STL	STEEL
F.F.	FINISHED FLOOR	STR	STRUCTURAL
FS-x	SQUARE FOOTING MARK	STS	SELF TAPPING SCREWS
FT	FOOT		
FTG	FOOTING	T&B	TOP AND BOTTOM
FTS-x	THICKEN SLAB MARK	TEMP	TEMPERATURE
		THDS	THREADS
GA	GAUGE	T.O.	TOP OF
GALV	GALVANIZED	TOC	TOP OF CONCRETE
GSN	GENERAL STRUCTURAL NOTES	TOD	TOP OF DECK
		TOF	TOP OF FOOTING
HORIZ	HORIZONTAL	TOW	TOP OF WALL
HT	HEIGHT	TYP	TYPICAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE		
I.F.	INSIDE FACE	VERT	VERTICAL
IN.	INCH		
INT	INTERIOR	W/	WITH
		WWF	WELDED WIRE FABRIC
JT	JOINT	WWM	WELDED WIRE MESH

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PROFESSIONAL SEAL

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
BHB PROJECT NO:	07099
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

SHEET TITLE

GENERAL STRUCTURAL NOTES

S001

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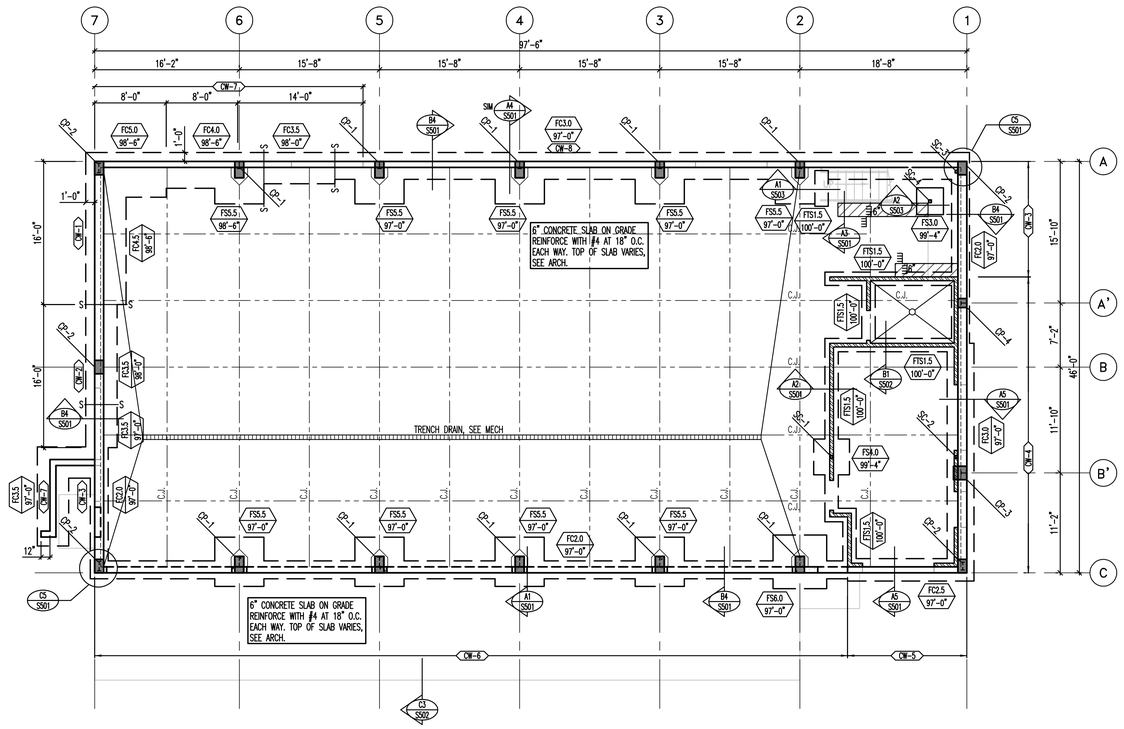
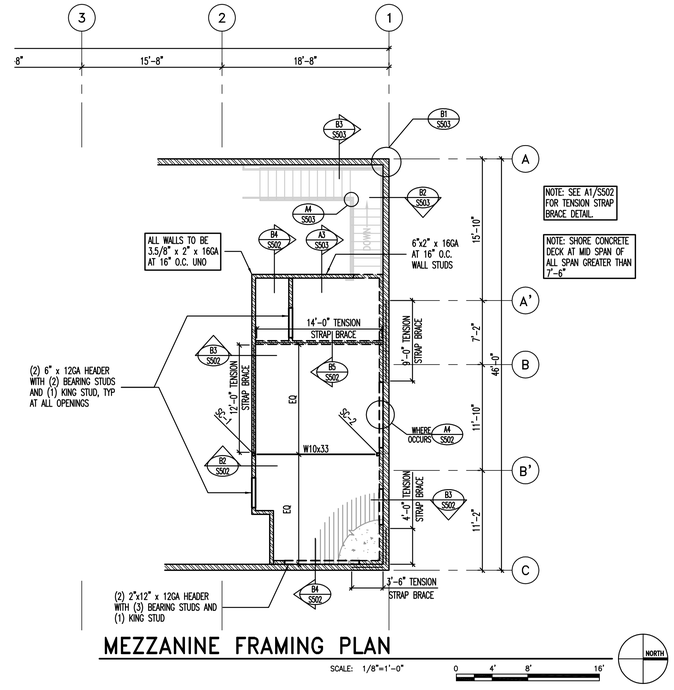


FOOTING AND FOUNDATION PLAN

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



MEZZANINE FRAMING PLAN

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

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- FOOTING DESIGNATION / TOP OF FOOTING ELEVATION
- INDICATES CONCRETE WALL.
- DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL B4/S501 AND C3/S502.
- INDICATES CONCRETE OVER METAL FLOOR DECK. SEE GENERAL STRUCTURAL NOTES ON SHEET S001.
- INDICATES 4" THICK CONCRETE HOUSE-KEEPING PAD. REINF WITH #4 BARS AT 12" O.C. EACH WAY. SEE DETAIL A3/S501 AND A4/S501.
- CW-x — INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S601.
- FCxx — INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601.
- FSxx — INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S601.
- CP-x — INDICATES CONCRETE PIER TYPE, SEE SCHEDULE ON SHEET S601.
- C.J. — INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS C3/S501 AND C4/S501.
- SC-x — INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S-601.

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
4. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
5. SEE DETAILS C1/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
6. SEE DETAIL C3/S501 AND C4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
7. SEE DETAIL B1/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
8. SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
9. SEE DETAIL A3/S501 AND A4/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
11. FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.
12. SEE "EARTHWORK" NOTES ON SHEET S001 AND DETAIL C1/S502 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.

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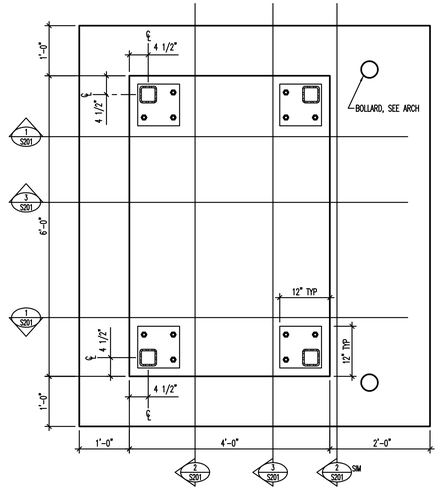
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

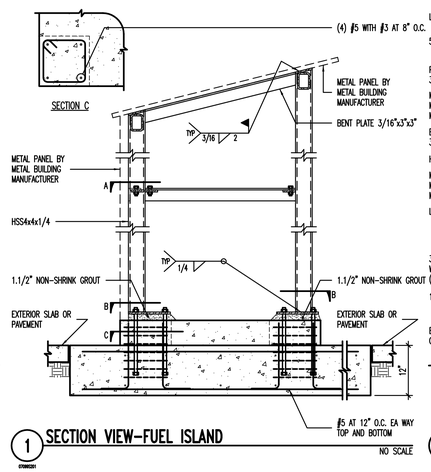
SHEET TITLE

FOOTING AND FOUNDATION PLAN

S101



PLAN VIEW FUEL ISLAND



1 SECTION VIEW-FUEL ISLAND

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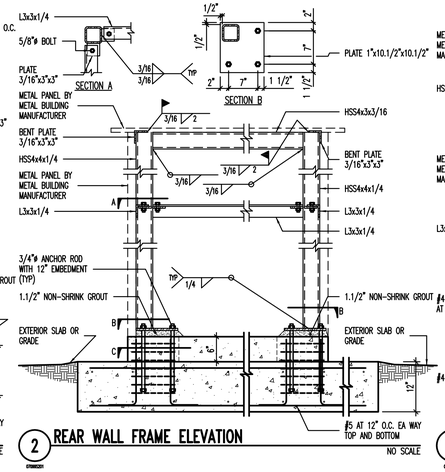

2 REAR WALL FRAME ELEVATION

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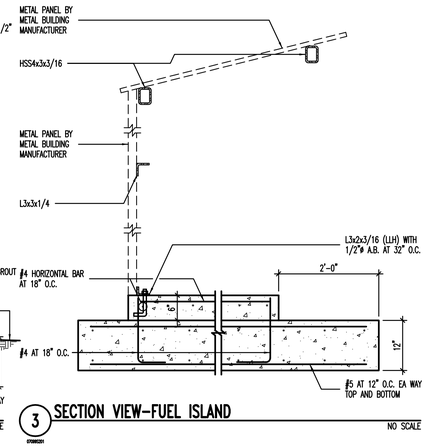

3 SECTION VIEW-FUEL ISLAND

NO SCALE

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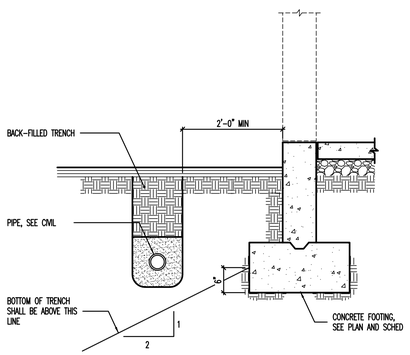
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

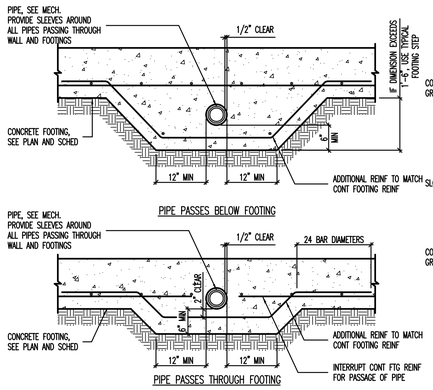
SHEET TITLE

FUEL ISLAND DETAILS

S201



C1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING
NO SCALE



C2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING
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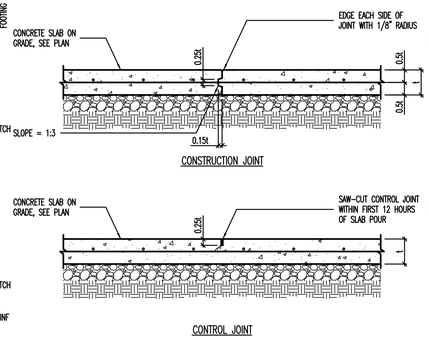

C3 TYPICAL SLAB ON GRADE JOINT DETAILS
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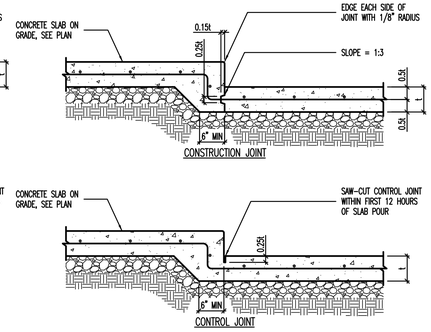

C4 JOINT DETAILS AT SLAB DEPRESSIONS
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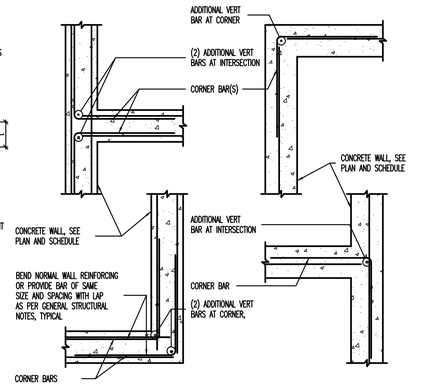
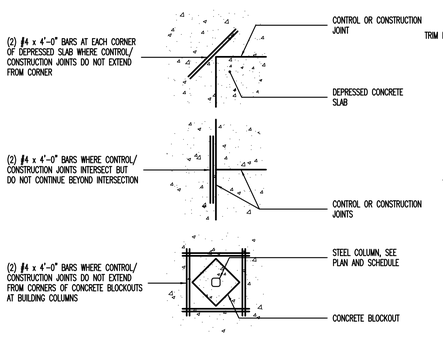


C5 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW]
NO SCALE



B1 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]
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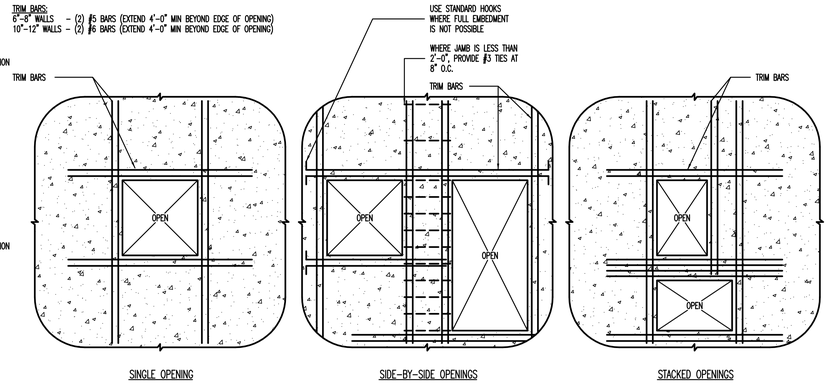
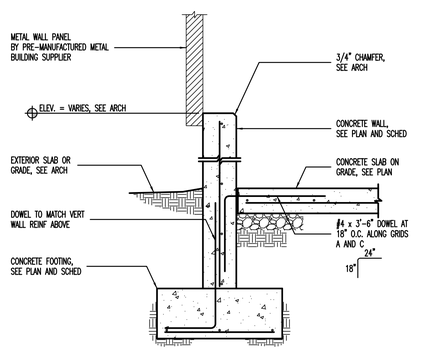
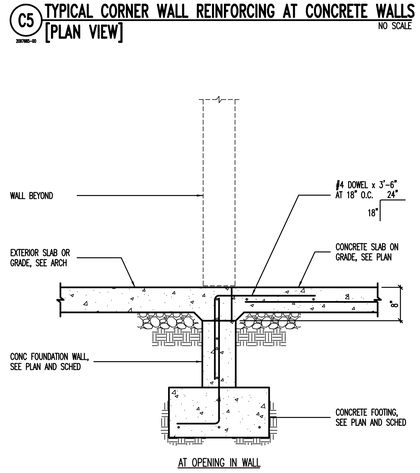
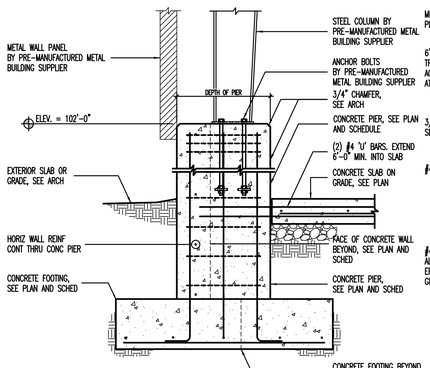


B2 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER.
NO SCALE

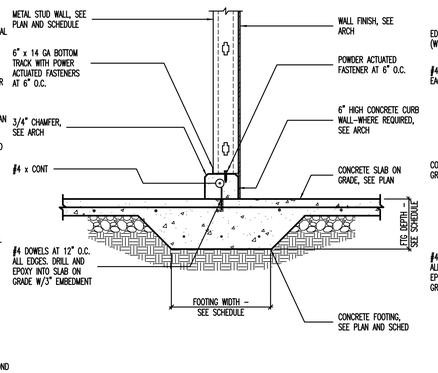


B4 FOUNDATION WALL DETAIL
NO SCALE

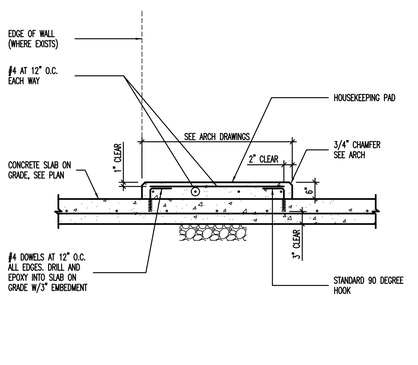




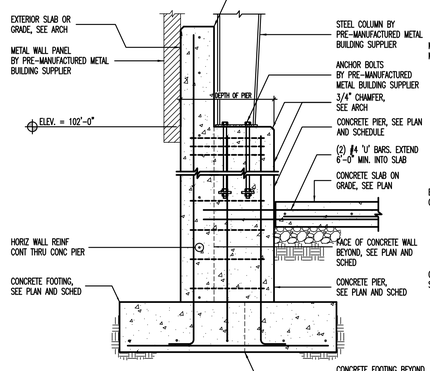
A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING
NO SCALE



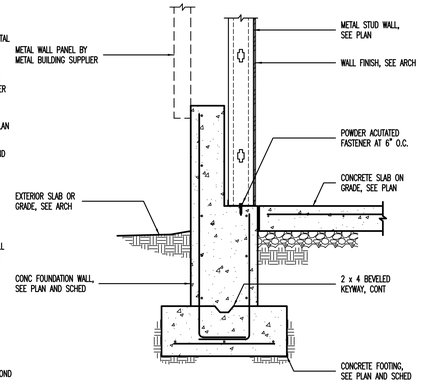
A2 THICKENED SLAB FOOTING AT INTERIOR STUD WALL
NO SCALE



A3 TYPICAL HOUSEKEEPING PAD
NO SCALE



A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING
NO SCALE



A5 METAL STUD WALL AT FOOTING
NO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
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PROFESSIONAL SEAL

ISSUE

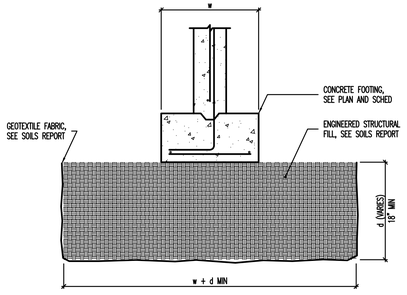
MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
BHB PROJECT NO:	07099
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

SHEET TITLE

FOOTING AND FOUNDATION DETAILS

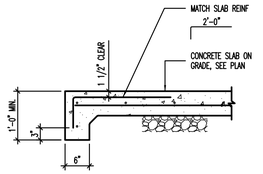
S501



C1 ENGINEERED STRUCTURAL FILL DETAIL

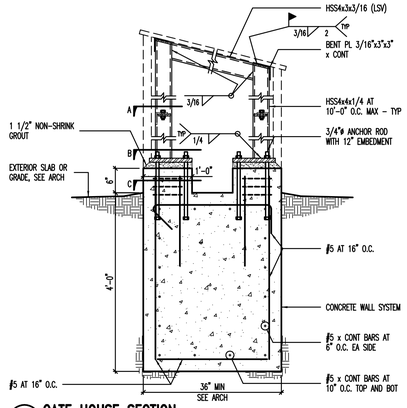
NO SCALE

C2 NOT USED



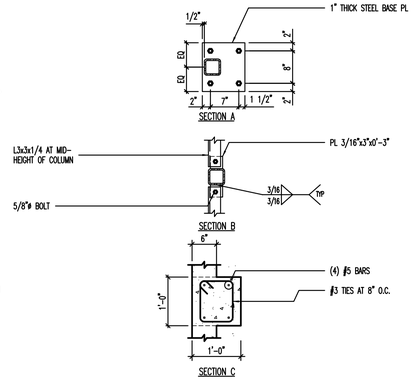
C3 SLAB TURNDOWN DETAIL

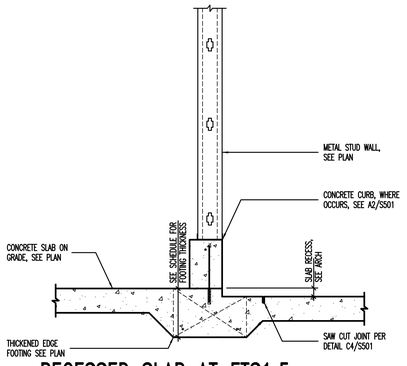
NO SCALE



C4 GATE HOUSE SECTION

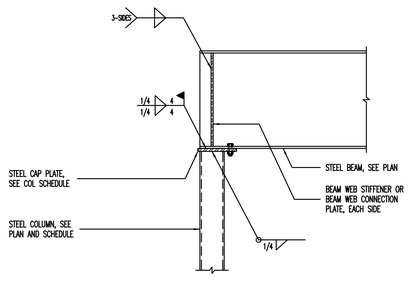
NO SCALE





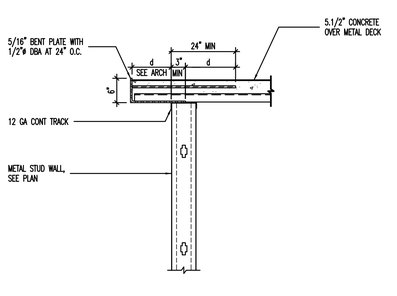
B1 RECESSED SLAB AT FTS1.5

NO SCALE



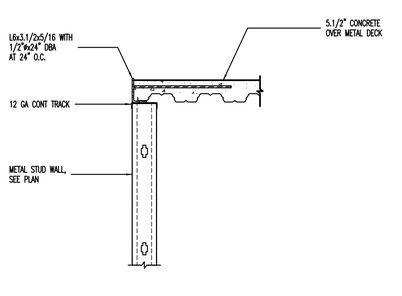
B2 TYPICAL STEEL BEAM BEARING AT STEEL COLUMN

NO SCALE



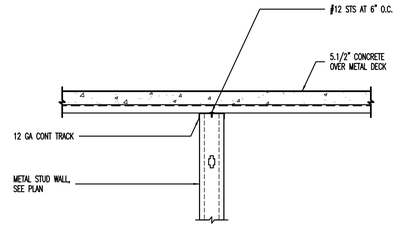
B3 STEEL DECK EDGE DETAIL PERPENDICULAR TO WALL

NO SCALE



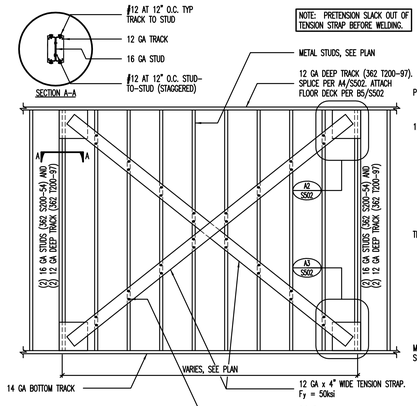
B4 STEEL DECK EDGE DETAIL PERPENDICULAR TO WALL

NO SCALE



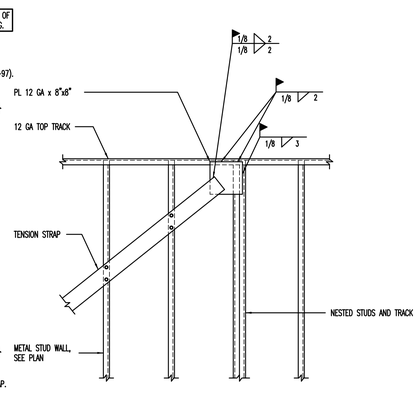
B5 STEEL DECK ON INTERIOR BEARING WALL

NO SCALE



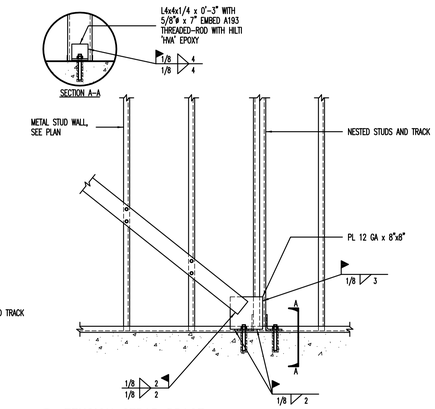
A1 TENSION STRAP BRACE

NO SCALE



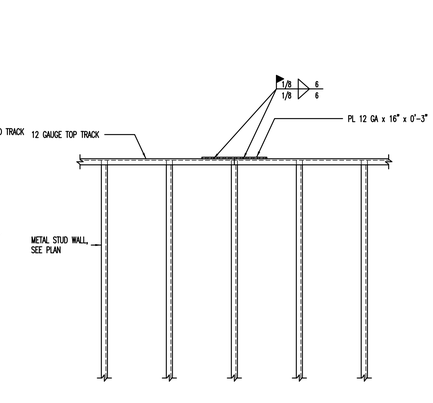
A2 TENSION STRAP BRACE

NO SCALE



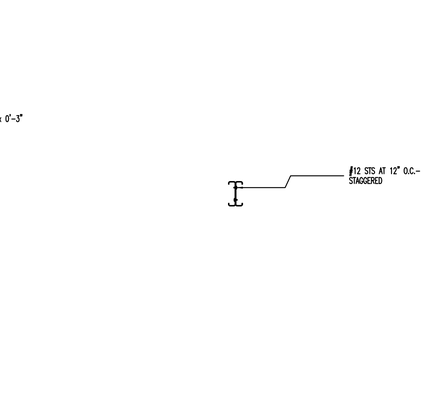
A3 TENSION STRAP BRACE

NO SCALE



A4 TOP TRACK SPLICE DETAIL

NO SCALE



A5 TYPICAL HEADER SECTION

NO SCALE

CLIENT

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PROFESSIONAL SEAL

ISSUE

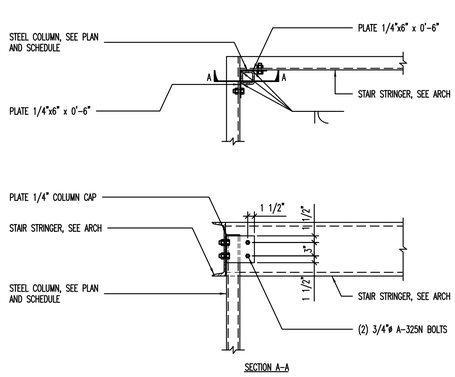
MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
BHB PROJECT NO:	07099
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

SHEET TITLE

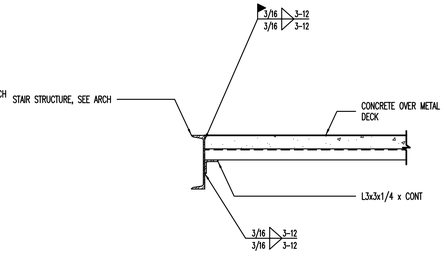
FOOTING AND FOUNDATION DETAILS

S502



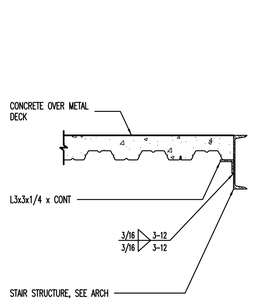
B1 STEEL COLUMN TO STAIR STRINGER CONNECTION

NO SCALE



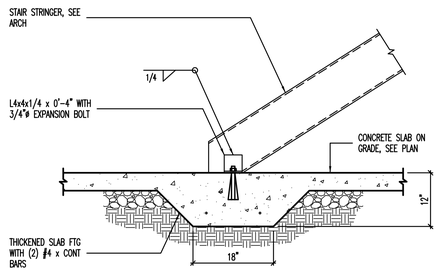
B2 STAIR LANDING DETAIL

NO SCALE



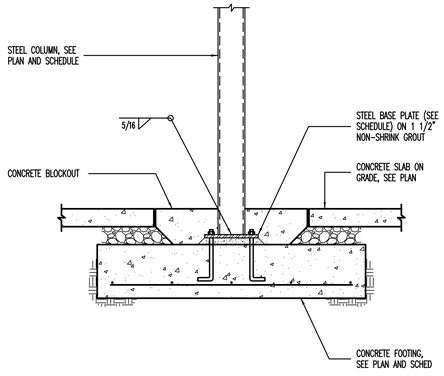
B3 STAIR LANDING DETAIL

NO SCALE



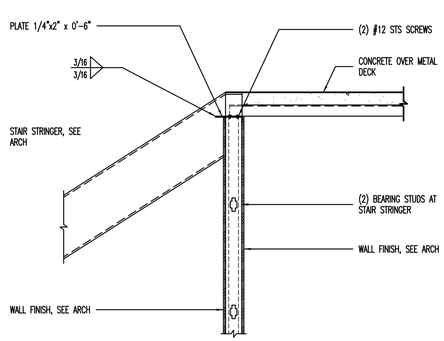
A1 TYPICAL STAIR STRINGER BEARING DETAIL

NO SCALE



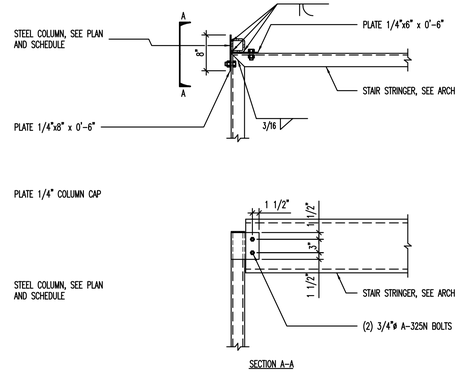
A2 TYPICAL INTERIOR STEEL COLUMN TO FOOTING DETAIL

NO SCALE



A3 STAIR STRINGER CONNECTION TO METAL STUD WALL

NO SCALE



A4 STEEL COLUMN TO STAIR STRINGER CONNECTION

NO SCALE

CLIENT

LDOT CONNECTING COMMUNITIES

STATION #3437A
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PROFESSIONAL SEAL

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
BHB PROJECT NO:	07099
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

SHEET TITLE

MEZZAZINE STAIR DETAILS

S503

CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS1.5	1'-6"	CONT	12"	–	–	–	–	2	#4	CONT	EQ	THICKENED SLAB
FC2.0	2'-0"	CONT	12"	–	–	–	–	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	–	#5	2'-0"	14"	3	#5	CONT	EQ	
FC3.0	3'-0"	CONT	12"	–	#5	2'-6"	14"	3	#5	CONT	EQ	
FC3.5	3'-6"	CONT	12"	–	#5	3'-0"	14"	3	#5	CONT	EQ	
FC4.0	4'-0"	CONT	12"	–	#5	3'-6"	14"	4	#5	CONT	EQ	
FC4.5	4'-6"	CONT	12"	–	#5	4'-0"	14"	4	#5	CONT	EQ	
FC5.0	5'-0"	CONT	12"	–	#5	4'-6"	14"	5	#5	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS7.0	7'-0"	7'-0"	14"	8	#5	6'-6"	EQ	8	#5	6'-6"	EQ	
FS7.5	7'-6"	7'-6"	14"	8	#5	7'-0"	EQ	8	#5	7'-0"	EQ	

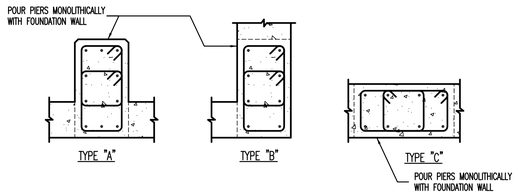
CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

C1 CONCRETE FOOTING SCHEDULE
SCHED_CONC_FTG-CSWD-SYMB
NO SCALE

CONCRETE PIER SCHEDULE

MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-1	12" x 22"	(10) #5	(2) #3 AT 8" O.C.	A	
CP-2	12" x 18"	(8) #5	(2) #3 AT 8" O.C.	B	
CP-3	12" x 18"	(8) #5	(2) #3 AT 8" O.C.	C	
CP-4	12" x 18"	(8) #5	(2) #3 AT 8" O.C.	C	

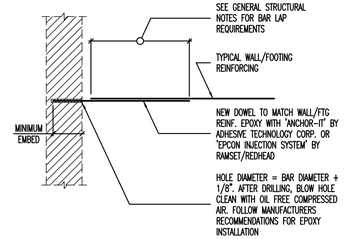
CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



C2 CONCRETE PIER SCHEDULE
SCHED_CONC_PIER-01
NO SCALE

EPOXY DOWEL EMBED SCHEDULE

DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	6 1/2"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



C3 EPOXY DOWEL EMBED SCHEDULE
SCHED_MFG_MAS-01
NO SCALE

CONCRETE WALL SCHEDULE

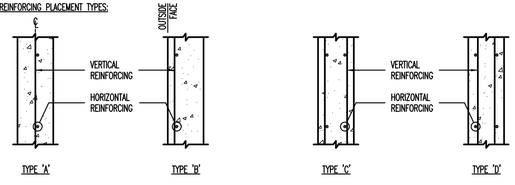
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-1	12"	#5 AT 16" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #5	C	.
CW-2	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	
CW-3	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	
CW-4	12"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	20"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"
CW-5	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"
CW-6	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	
CW-7	8"	#5 AT 15" O.C.	#4 AT 12" O.C.	(1) #5	B	
CW-8	8"	#5 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	B	

CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:



A1 CONCRETE WALL SCHEDULE
SCHED_CONC_WALL-01
NO SCALE

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

CONCRETE REINFORCING BAR LAP SPLICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. SPLICES FOR BUNDLED BARS:
   a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
   d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

A2 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE
SCHED_CONC_REINF-01
NO SCALE

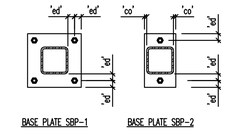
STEEL COLUMN SCHEDULE

MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS
SC-1	HSS3x3x1/4	1/2" (SBP-1)	1/2" (SCP-1)	
SC-2	HSS3x3x1/4	1/2" (SBP-2)	1/2" (SCP-1)	
SC-3	HSS3x3x1/4	1/2" (SBP-3)	1/4" SEE DETAIL B1/SS03	
SC-4	HSS3x3x1/4	1/2" (SBP-1)	1/4" SEE DETAIL A4/SS03	

STEEL COLUMN NOTES:
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4"ø ANCHOR BOLTS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
2. ALL CAP PLATE BOLTS SHALL BE 3/4"ø A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
3. ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

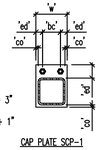
STEEL BASE PLATE TYPES:

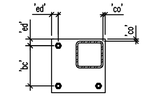
BASE PLATE LEGEND
co = 1/2" MINIMUM
ed = 1 1/2" MINIMUM
bc = 3" MINIMUM



STEEL CAP PLATE TYPES:

CAP PLATE LEGEND
co = 1/2" MINIMUM
ed = 1 1/2" MINIMUM
bc = BEAM OR GIRDER GAGE
w = BEAM OR GIRDER GAGE + 3"
OR
BEAM OR GIRDER WIDTH + 1"
OR
COLUMN WIDTH + 1"
WHICHEVER IS GREATER





A3 STEEL COLUMN SCHEDULE
SCHED_SS_COL-01
NO SCALE

CLIENT

LDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
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PROFESSIONAL SEAL

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
BHB PROJECT NO:	07099
DRAWN BY:	CHRIS B.
CHECKED BY:	GERALD M.
SCALE:	
DATE:	FEBRUARY, 2008

SHEET TITLE

STRUCTURAL SCHEDULES

S601

SYMBOL SCHEDULE

RT-1	SPECIFIED MECHANICAL EQUIPMENT (SEE SCHEDULE)
A 150	SPECIFIED REGISTER OR GRILLE & DESIGN CFM (SEE SCHEDULE)
3	REFERENCE TO GENERAL NOTES FOR CLARIFICATION
6"Φ	DUCTWORK INSIDE DIMENSION (ROUND)
12/10	DUCTWORK INSIDE DIMENSIONS (RECTANGULAR - WIDTH/HEIGHT)
	SUPPLY AIR TOWARDS
	SUPPLY AIR AWAY
	RETURN AIR OR EXHAUST AIR TOWARDS
	RETURN AIR OR EXHAUST AIR AWAY
	DIRECTION OF AIR FLOW
3/4"-S	REFRIGERATION PIPE SIZE (SUCTION)
3/8"-L	REFRIGERATION PIPE SIZE (LIQUID)
	CEILING GRILLE
VD	VOLUME DAMPER
FD	FIRE DAMPER
SD	SMOKE DETECTOR
UC	UNDERCUT DOOR
S	SENSOR
T	THERMOSTAT
W	SWITCH

FURNACE

MARK	MANUFACTURER CATALOG No.	CFM	INPUT BTU	OUTPUT BTU	V	PHASE	HP	S.P.	RPM	DRIVE	FILTER SIZE	NOTES
F-1	TRANE #TUX1B080A9421A	800	80,000	74,000	115	1	1/2	0.5	1075	DIRECT	14"X20"X1"	(1)

(1) AFUE - 93; R-22; PROVIDE W/TXC050C4HPD EVAPORATOR; CONCENTRIC VENT KIT, CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER, PROPANE.

EXHAUST FAN SCHEDULE

MARK	SERVES	CFM	STATIC PRESS.	HP	RPM	V	PHASE	SONES	WEIGHT	MAKE & MODEL	NOTES
EF-1	RESTROOM	120	0.15	50W	1200	120	1	1.7	22	COOK #SC-240	(4) (5) (6)
EF-2	VEHICLE SVC BAY	6,000	0.25	1.0	701	208	1	19.7	299	COOK XLP 30	(1) (2) (3) (7) (8) (9)

(1) PROVIDE WALL FAN AS PACKAGED UNIT
(2) CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH
(3) INNER LOCK LOUVER MOTOR WITH FAN MOTOR
(4) CEILING GRILLE
(5) COOK WCA-2 WALL CAP AND DAMPER
(6) CONTROL WITH MOTION DETECTOR
(7) INTEGRAL EXHAUST SHUTTER
(8) MOTORIZED INLET LOUVER. INTERLOCK LOUVER WITH FAN MOTOR SEE PLANS FOR LOCATION
(9) SAFETY INLET SCREEN

CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER CATALOG No.	NOM. TONS	AMB. TEMP.	V	PHASE	MCA	MOCP	FLA	SEER	SUCTION TEMP.	NOTES
CU-1	TRANE #2TTB3024A100	2.0	96	208/230	1	12	20	8.1	13	45	(1)

(1) PROVIDE WITH FUSED DISCONNECT, CONNECT TO EVAPORATOR COIL IN F-1, ANTI-SHORT CYCLE, PROGRAMMABLE THERMOSTAT, HIGH/LOW PRESSURE SWITCH, FACTORY INSTALLED ACCUMULATOR, CRANKCASE HEATER, LOW AMBIENT COOLING, CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER.

GAS-FIRED RADIANT HEATERS

MARK	MODEL MANUFACTURER	INPUT BTUH	UNIT WEIGHT	AFUE RATING	GAS CONNECTION	ELEC. REQ.	AMPS	FLUE SIZE	REMARKS
RH-1	ROBERTS GORDON CO-RAY-VAC #B-10	80,000	35	80%	1/2"	120/1/60	1.0	4"Φ	(1) (2) (3)

(1) ROBERTS GORDON #EP-100 VACUUM PUMP (VP-1), 1/3HP, 120 VOLT; PROVIDE FRESH AIR INTAKE, 7-DAY PROGRAMMABLE THERMOSTAT; HEAT TREATED ALUMINIZED STEEL TUBE AND POLISHED ALUMINUM REFLECTOR, PROPANE GAS.
(2) 7 DAY PROGRAMMING THERMOSTAT.
(3) PROVIDE ULTRA RAYVAC CONTROLLER 120V/20A.
(4) COORDINATE ALL LOCATIONS WITH ARCHITECT.

REGISTER, LOUVER & GRILLE SCHEDULE

MARK	TYPE	NECK/SIZE	SERVICE	MAX CFM	NOMINAL SIZE	REMARKS
1	CEILING DIFFUSER	6"Φ	SUPPLY	176	12X12	PRICE #SCDA (1) (3) (4) (6)
2	CEILING DIFFUSER	8"Φ	SUPPLY	280	24X24	PRICE #SCDA (2) (3) (4) (6)
3	TRANSFER GRILLE	12" X 12"	TRANSFER	N.A.	12X12	PRICE #80D (6)
4	RETURN GRILLE	12" X 12"	RETURN	630	12X12	PRICE #80D (6)
L1	INLET LOUVER	48" X 66"	TRANSFER	N.A.	48X66	RUSKIN ELC-445D (5) (6)
L2	EXHAUST LOUVER	54" X 54"	TRANSFER	N.A.	54X54	RUSKIN ELF-811S (6)
L3	INLET LOUVER	16" X 16"	TRANSFER	N.A.	16X16	RUSKIN ELF-811DD (6)

(1) 12" X 12" FACE MODULE.
(2) 24" X 24" FACE MODULE.
(3) 3 CONCENTRIC CONES.
(4) SET FOR HORIZONTAL DISCHARGE.
(5) PROVIDE WITH TWO ACTUATORS NO. G6D221, 115V, 150VA RUNNING, 10 VA HOLDING.
(6) COORDINATE ALL LOCATIONS WITH ARCHITECT.

GENERAL NOTES CONTINUED

24. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
25. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
26. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
27. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO NEAREST DRAIN. SEE DETAILS SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR DEPTH OF AIR CONDITIONING CONDENSATE TRAP.
28. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
29. DO NOT INSTALL EXPOSED PIPING ABOVE OR WITHIN THE CODE REQUIRED WORKING CLEARANCES OF ANY ELECTRICAL PANEL BOARD OR SWITCH GEAR (30" WIDE OR THE WIDTH OF THE PANEL, WHICHEVER IS GREATER AND 36" IN FRONT - FLOOR TO CEILING.) COORDINATE WITH ELECTRICAL CONTRACTOR.
30. ALL LOUVERS AND EXHAUST FANS TO BE WHITE.

GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC AND PLUMBING) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
4. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
5. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
7. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
8. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
9. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
10. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
11. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
12. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
13. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C44. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
16. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.
17. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTION FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
18. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
19. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
20. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
21. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
22. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
23. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER
CLIFFORD DEE HOLMES
01/25/08
NUMBER 309570
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

MECHANICAL SYMBOLS AND SCHEDULES

M001

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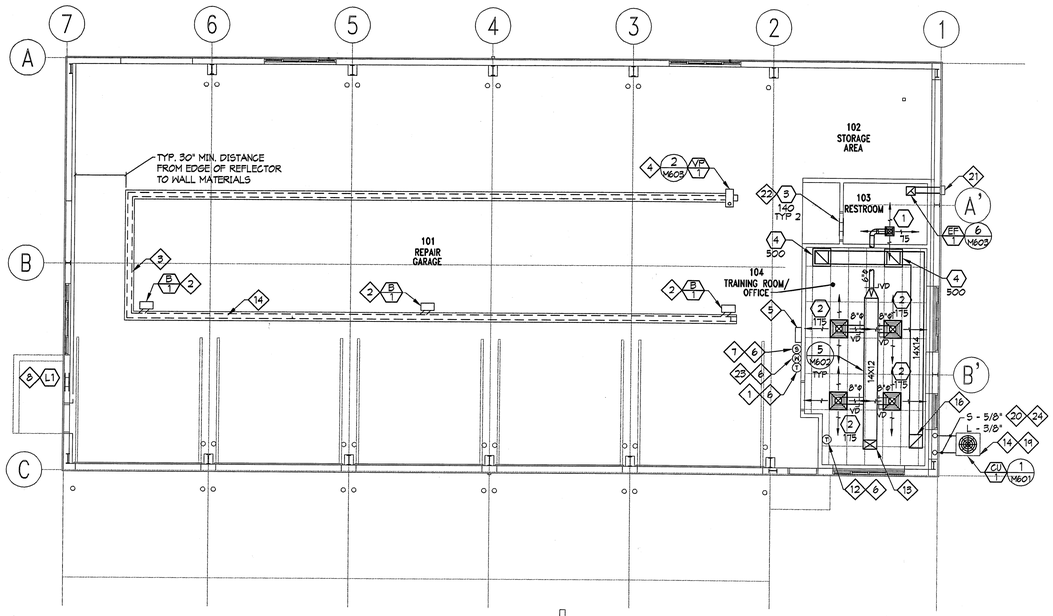
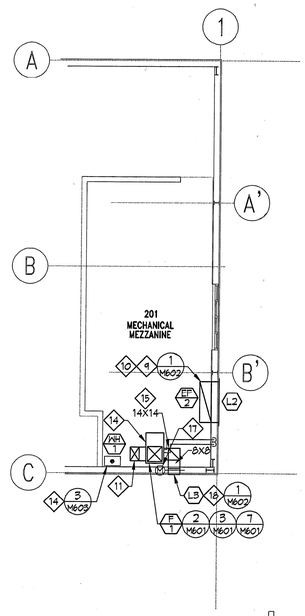


MAINTENANCE BUILDING PLAN

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

NORTH



MEZZANINE FLOOR PLAN

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

NORTH

KEY NOTES

1. THERMOSTAT FOR RADIANT HEAT SYSTEM.
2. 4" COMBUSTION AIR THROUGH ROOF.
3. MOUNT RADIANT HEATERS PARALLEL WITH ROLL UP DOORS (TYPICAL). COORDINATE EXACT LOCATION WITH ARCHITECT.
4. 4" TYPE B FLUE THROUGH ROOF. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
5. RADIANT HEAT SYSTEM CONTROL PANEL. SEE SCHEDULE.
6. MOUNT 5'-0" AFF.
7. CARBON MONOXIDE DETECTOR. INTERLOCK THROUGH AUTO/ON SWITCH WITH EXHAUST FAN EF-2.
8. COMBINATION LOUVER. INTERLOCK ACTUATOR WITH EF-2 REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
9. REFERENCE ARCH. DRAWINGS FOR LOCATION.
10. EXHAUST LOUVER. LOUVER TO HAVE WHITE FINISH.
11. DROP 14" X 12" DUCT DOWN THROUGH FLOOR.
12. THERMOSTAT TO CONTROL F-1.
13. 14" X 12" DUCT UP THROUGH MEZZANINE FLOOR.
14. MECHANICAL CONTRACTOR SHALL COORDINATE ANY/ALL CHANGES TO SUPPLIED EQUIPMENT ELECTRICAL WITH ELECTRICAL CONTRACTOR.
15. 14" X 14" RETURN DOWN THROUGH FLOOR.
16. 14" X 14" RETURN DUCT UP THROUGH MEZZANINE FLOOR.
17. INTERLOCK DAMPER MOTOR WITH F-1.
18. FRESH AIR LOUVER. PROVIDE INSECT SCREEN AND BALANCING DAMPER. SET DAMPER TO 200 CFM.
19. MOUNT CONDENSING UNIT ON CONCRETE PAD. PAD BY THIS CONTRACTOR.
20. REFRIGERATION LINE SIZES ARE FOR BIDDING PURPOSES ONLY. PROVIDE REFRIGERATION LINE SETS PER MANUFACTURER'S RECOMMENDATIONS.
21. EXHAUST FAN WALL CAP. REFER TO SCHEDULE.
22. MOUNT TRANSFER GRILLE ABOVE DOOR WITH CHANNEL BORDER ON BOTH SIDES OF THE WALL.
23. MANUAL OVERRIDE SWITCH LOCATION FOR EF-2. SEE ELECTRICAL DRAWINGS.
24. RISE IN EXTERIOR WALL WITH REFRIGERATION PIPING TO MEZZANINE LEVEL.

CLIENT

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MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

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ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2008

SHEET TITLE

MECHANICAL FLOOR PLAN

M201

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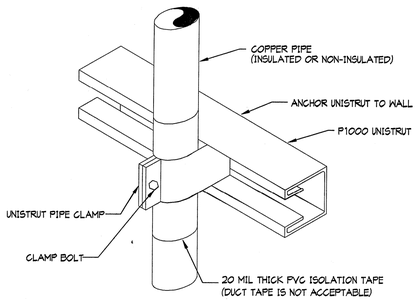
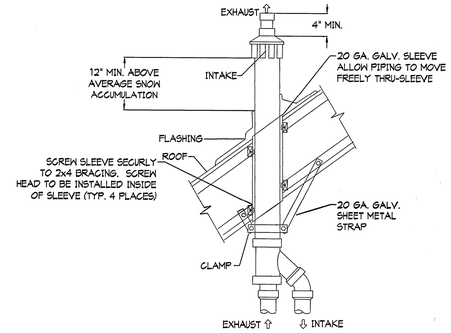


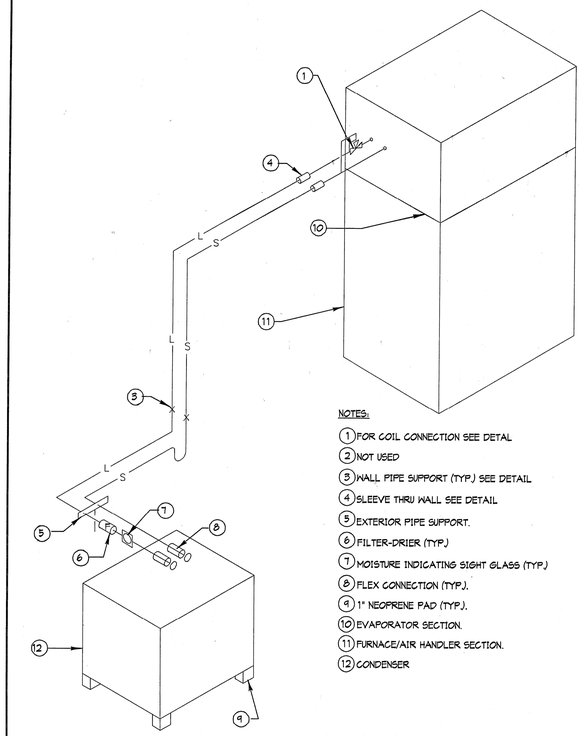
PIPE SUPPORT DETAIL

SCALE: NO SCALE — 6



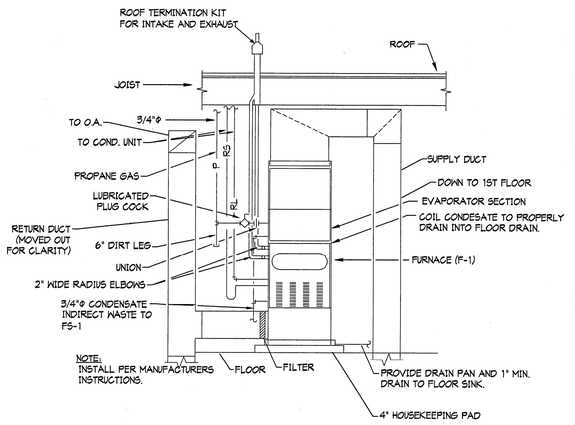
CONCENTRIC ROOF TERMINATION DETAIL

SCALE: NO SCALE — 3



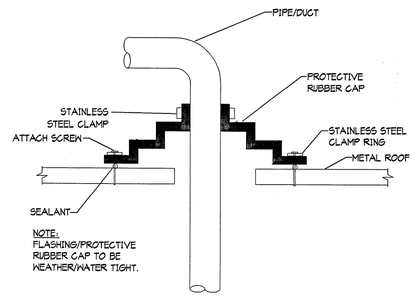
NOTES:

1. FOR COIL CONNECTION SEE DETAL
2. NOT USED
3. WALL PIPE SUPPORT (TYP.) SEE DETAIL
4. SLEEVE THRU WALL SEE DETAIL
5. EXTERIOR PIPE SUPPORT.
6. FILTER-DRIER (TYP.)
7. MOISTURE INDICATING SIGHT GLASS (TYP.)
8. FLEX CONNECTION (TYP.).
9. 1" NEOPRENE PAD (TYP.).
10. EVAPORATOR SECTION.
11. FURNACE/AIR HANDLER SECTION.
12. CONDENSER



90% EFFICIENT FURNACE DETAIL

SCALE: NO SCALE — 7

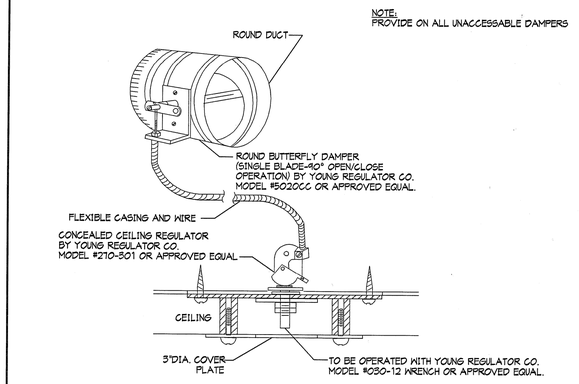


METAL ROOF PENETRATION DETAIL

SCALE: NO SCALE — 4

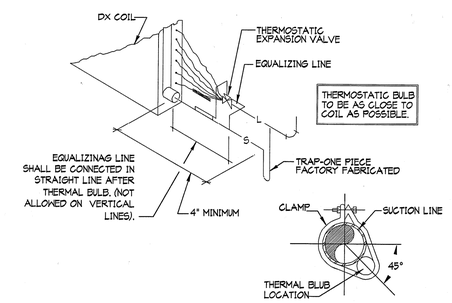
REFRIGERANT PIPING SCHEMATIC DETAIL

SCALE: NO SCALE — 1



DAMPER AND REGULATOR DETAIL

SCALE: NO SCALE — 5



REFRIGERANT COIL CONNECTION DETAIL

SCALE: NO SCALE — 2

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER — CLIFFORD DEE HOLMES — 01/25/08 — NUMBER 309570 — STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

MECHANICAL DETAILS

M601

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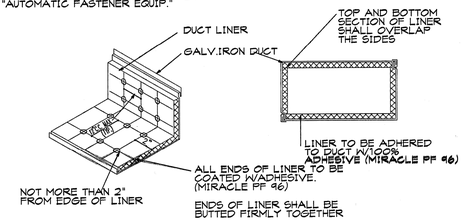
METAL FASTENERS:
GMARK INSUL-PINS, DURO DYNE FASTENERS OR GRIP NAILS.

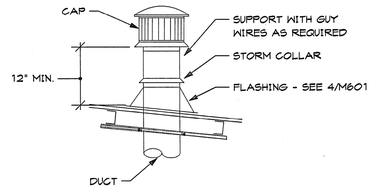
GRIP NAILS SHALL BE INSTALLED BY "GRIPNAIL AIR HAMMER" OR BY "AUTOMATIC FASTENER EQUIP."

NOTE:
ALL SUPPLY AIR DUCTS SHALL BE WRAPPED EXTERNALLY AS PER SPECIFICATIONS



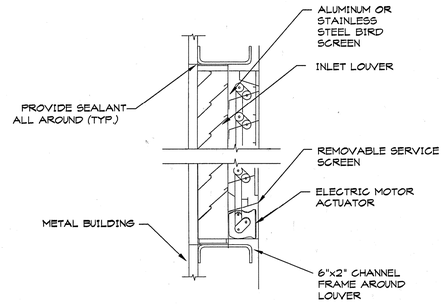
DUCT LINER DETAIL

SCALE: NO SCALE (7)



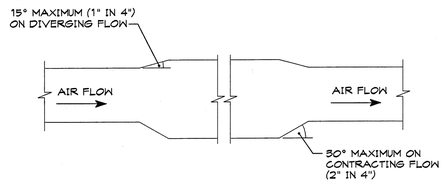
INTAKE VENT PIPE DETAIL

SCALE: NO SCALE (4)



OUTLET / INLET LOUVER DETAIL

SCALE: NO SCALE (1)



NOTE:
THE 15° MAXIMUM TRANSITION ANGLE NOTED ON THIS DETAIL IS MORE RESTRICTIVE THAN THE SMACNA ALLOWANCE OF 20°.

CONVERGING AND DIVERGING TRANSITIONS

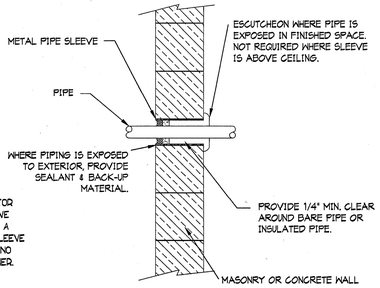
SCALE: NO SCALE (8)

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING ① AT JOINTS: MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS &/OR INTERMEDIATE REINFORCING	MIN. H, IN.	DRIVE SLIP / PLAIN S SLIP: RECOMMENDED GAGE	HEMMED S SLIP: RECOMMENDED GAGE	ALTERNATE BAR SLIP: RECOMMENDED GAGE	REINFORCED BAR SLIP: RECOMMENDED GAGE	BAR SLIP / ANGLE SLIP: RECOMMENDED GAGE	BAR SLIP / ANGLE SLIP: REINFORCED ANGLE SIZE	STAND. SEAM / ANGLE REINFOR. STAND. SEAM: REINFORCED ANGLE SIZE	POCKET LOCK / ANGLE REINFORCED POCKET LOCK: RECOMMENDED GAGE	POCKET LOCK / ANGLE REINFORCED POCKET LOCK: REINFORCED ANGLE SIZE
UP THRU 12	26	NONE REQ.	1	26	26	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
13 – 18	24	NONE REQ.	1	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
19 – 30	24	1X1X1/8 @ 60"	1	–	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
31 – 42	22	1X1X1/8 @ 60"	1	–	–	22	22	22	NOT REQ.	NOT REQ.	22	NOT REQ.
43 – 54	22	1.5X1.5X1/8@60"	1 1/2	–	–	22	22	22	1.5X1.5X1/8	NOT REQ.	22	NOT REQ.
55 – 60	20	1.5X1.5X1/8@60"	1 1/2	–	–	–	22	22	1.5X1.5X1/8	NOT REQ.	22	NOT REQ.
61 – 84	20	1.5X1.5X1/8@30"	1 1/2	–	–	–	22	22	1.5X1.5X1/8	1.5X1.5X1/8	22	1.5X1.5X1/8

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

DUCT CONSTRUCTION DETAIL

SCALE: NO SCALE (5)



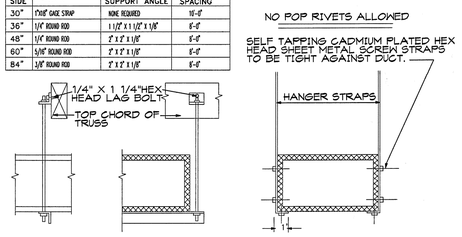
NOTE:
PIPE SLEEVES ARE REQUIRED ON THIS PROJECT. CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY PIPE INSTALLED WITHOUT A PIPE SLEEVE, INSTALL THE SLEEVE AND REINSTALL THE PIPE AT NO ADDITIONAL COST TO THE OWNER.

PIPE THRU WALL ABOVE GRADE

SCALE: NO SCALE (2)

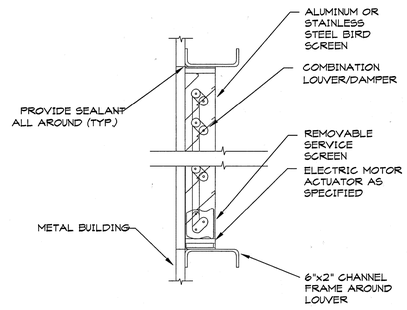
HANGER SIZES FOR RECTANGULAR DUCT

MAX. SIDE	HANGER	HORIZANTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"X16" GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	2" X 2" X 1/8"	8'-0"
60"	5/16" ROUND ROD	2" X 2" X 1/8"	8'-0"
84"	3/8" ROUND ROD	2" X 2" X 1/8"	8'-0"



DUCT STRAP HANGER DETAIL

SCALE: NO SCALE (6)



COMBINATION LOUVER/DAMPER DETAIL

SCALE: NO SCALE (3)

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CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER
CLIFFORD DEE HOLMES
01/25/08
NUMBER 309570
STATE OF UTAH

ISSUE

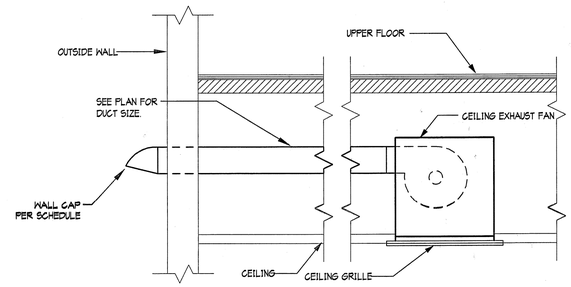
MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

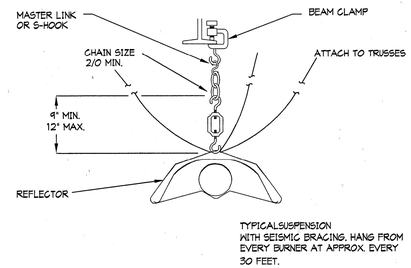
SHEET TITLE

MECHANICAL DETAILS

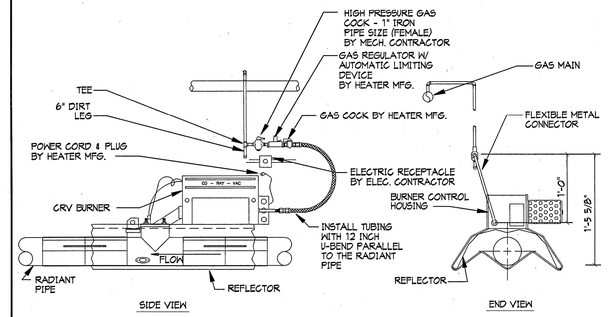
M602



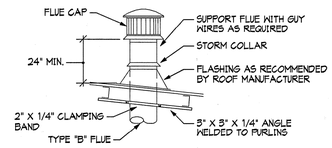
EXHAUST FAN — SCALE: NO SCALE — 4



RADIANT HEATING SEISMIC DETAIL — SCALE: NO SCALE — 1



GAS CONNECTION TO CRV BURNER DETAIL — SCALE: NO SCALE — 2



FLUE CAP DETAIL — SCALE: NO SCALE — 3

CLIENT

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LICENSED PROFESSIONAL ENGINEER
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309570
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

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DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

MECHANICAL DETAILS

M603

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GENERAL NOTES TO ALL SHEETS

55. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.

56. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.

57. HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

58. DIVISION 15 SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS FROM TO JOB COMPLETION AND FINAL PAYMENT.

PLUMBING SYMBOL SCHEDULE

SYMBOL	ABBREVIATION	DESCRIPTION
	CW	COLD WATER LINE
	HW	HOT WATER LINE
	HWR	HW RECIRCULATION LINE
CW	CW	CW LINE UNDER FLOOR
HW	HW	HW LINE UNDER FLOOR
HWR	HWR	HWR LINE UNDER FLOOR
	SAN	SANITARY WASTE LINE (BELOW FLOOR OR GRADE)
	SAN	SANITARY WASTE LINE (ABOVE FLOOR OR GRADE)
SANEI	SANEI	EXISTING SANITARY WASTE LINE
V	V	VENT LINE
C	COND	A/C CONDENSATE LINE (SIZED TO DISCHARGE)
UP	UP	PIPE RISER UP (VIEWED CEILING TO FLOOR)
DN	DN	PIPE RISER DOWN (VIEWED CEILING TO FLOOR
SOV	SOV / GV	SHUT-OFF VALVE / GATE VALVE
SOV	SOV / BV	SHUT-OFF VALVE / BALL VALVE
SOV	SOV / GV (NC)	SOV / GV (NORMALLY CLOSED)
SOV	SOV /BV (NC)	SOV / BV (NORMALLY CLOSED)
SOV	SOV / GC	SHUT-OFF VALVE /GAS COCK
CK V	CK V	CHECK VALVE
UN	UN	UNION
PRV	PRV	PRESSURE REGULATING VALVE
P&T	P&T	PRESS. & TEMP. RELIEF VALVE
STR	STR	"Y" STRAINER
PR GA	PR GA	PRESSURE GAUGE
MTR MTR	MTR MTR	WATER METER
GAS MTR	GAS MTR	GAS METER
RW	RW	RAIN WATER LINE (ABOVE FLOOR)
G	G	NATURAL GAS LINE
LP	LP	LIQUID PROPANE LINE
F	F	FIRE SPRINKLER LINE
SW	SW	SOFT WATER LINE
CA	CA	COMPRESSED AIR LINE
CA	CA	COMPRESSED AIR LINE (BELOW FLOOR)
DN	DN	DEDICATED WASTE LINE
SOV IN YB	SOV IN YB	SHUT-OFF VALVE IN YARD BOX
FH	FH	FIRE HYDRANT
FDC	FDC	FIRE DEPT. CONNECTION
WMS	WMS	WATER METER SONIC
PIV	PIV	POST INDICATOR VALVE
POC	POC	POINT OF CONNECTION
W	W	UTILITY WATER MAIN - SIZE
SAN	SAN	SANITARY SEWER MAIN - SIZE
G	G	UTILITY GAS MAIN - SIZE
SD	SD	UTILITY STORM DRAIN - SIZE
GC	GC	AIR CONNECTION

ABBREVIATION SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A/C	AIR CONDITIONING	HB	HOSE BIBB
ASR	AUTOMATIC SPRINKLER RISER	HD	HUB DRAIN
AVG	AVERAGE	HTR	HEATER
BFP	BACKFLOW PREVENTER	IE	INVERT ELEVATION
BTU	BRITISH THERMAL UNITS	IW	INDIRECT WASTE
CB	CATCH BASIN	MAX	MAXIMUM
CFH	CUBIC FEET PER HOUR	MHB	THOUSAND BTU'S PER HOUR
CL	CENTERLINE	MC	MECHANICAL CONTRACTOR
CO	CLEANOUT	MECH	MECHANICAL
CONC	CONCRETE	MH	MANHOLE
CONTD	CONTINUED	MIN	MINIMUM
CONTR	CONTRACTOR		
COTG	CLEANOUT TO GRADE	(N)	NEW
		NIC	NOT IN CONTRACT
DN	DOWN		
DS	DOWNSPOUT		
		OD	OVERFLOW DRAIN
(E)	EXISTING		
(ER)	EXISTING TO BE REMOVED	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	PIV	POST INDICATOR VALVE
ELEV	ELEVATION	POC	POINT OF CONNECTION
EXIST	EXISTING	PSI	POUNDS PER SQUARE INCH
		PSIL	PSI LOSS
FCO	FLOOR CLEANOUT		
FD	FLOOR DRAIN	RD	ROOF DRAIN
FE	FIRE EXTINGUISHER	REG	REGULATOR
FEC	FE & CABINET	REQD	REQUIRED
FHB	FLOOR HOSE BOX	RI & C	ROUGH-IN AND CONNECT
FHC	FIRE HOSE AND CABINET		
FL	FLOOR	STA	STATION
FPS	FEET PER SECOND		
FS	FLOOR SINK	VEL	VELOCITY
FT.HD	FEET OF HEAD	VTR	VENT THRU ROOF
FTR	FLUE THRU ROOF		
FU	FIXTURE UNIT	W/	WITH
		WCO	WALL CLEANOUT
GC	GENERAL CONTRACTOR	WF	WALL FAUCET
GPM	GALLONS PER MINUTE	WTR	WATER
GR	GRADE		

GAS FIRED WATER HEATER SCHEDULE

MARK	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	RECOV GPH	TANK SIZE	TEMP. F IN/OUT	FLUE SIZE	REMARKS
WH	BRADFORD WHITE RM-I-40T6EN (LP)	HOT WATER	40	PROPANE	40,000	41	20"	40°/140°	2"	(1) (2)

1. PROVIDE WITH EXPANSION TANK, A.O. SMITH-AMTROL ST-5-2 GAL, 8"Ø x 12"H
2. INSTALL PER MANUFACTURERS REQUIREMENTS

AIR COMPRESSOR

MARK	DUTY	ACFM @ 135 PSI	RECEIVER CAP. (GAL)	ELECTRICAL VOLT/PH	ELECTRICAL HP	MANUFACTURER & MODEL NO
AC	SHOP AIR	10.3	60	230/1	3.0	SPEED AIR WW GRANGER # 4B236
CA	COMPRESSED AIR CONNECTION					

* START/STOP, WITH PROVISION FOR NO LOAD START. INCLUDE MAGNETIC STARTER

GENERAL NOTES TO ALL SHEETS

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. RUN ALL SOIL WASTE AND VENT PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
3. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.
4. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.
5. MAINTAIN A MINIMUM OF 6'-0" OF GROUND COVER OVER ALL UNDERGROUND WATER MAINS AND A MINIMUM OF 8'-0" OF GROUND COVER OVER ALL UNDERGROUND SEWERS AND DRAINS.
6. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
7. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
8. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNION, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
9. WHERE DOMESTIC GOLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
10. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
11. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.
12. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
13. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
14. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
15. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
16. PROVIDE ALL PLUMPING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
17. UNLESS OTHERWISE NOTED, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC.
18. PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 100 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.
19. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
20. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
21. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
22. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
23. PROVIDE FLEXIBLE CONNECTION IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.
24. DO NOT INSTALL EXPOSED PIPING ABOVE OR WITHIN THE CODE REQUIRED WORKING CLEARANCES OF ANY ELECTRICAL PANEL BOARD OR SWITCH GEAR (30" WIDE OR THE WIDTH OF THE PANEL, WHICHEVER IS GREATER AND 36" IN FRONT - FLOOR TO CEILING.) COORDINATE WITH ELECTRICAL CONTRACTOR.
25. COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
26. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITSIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
27. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
28. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILAR WITH SITE CONDITIONS.
29. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRNET ADOPTED EDITION OF THE BUILDING CODES, MECHANICAL CODES AND PLUMBING CODES.
30. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
31. ALL DOMESTIC GOLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE "L" COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
32. PROVIDE INSULATION FOR THE FOLLOWING: A. DOMESTIC HOT WATER PIPING: 1" THICK FOR ALL PIPE SIZES. B. DOMESTIC COLD WATER PIPING: 1/2" THICK FOR PIPE SIZES 1/2" TO 6". (PROVIDE CONTINUOUS VAPOR BARRIER.)

PLUMBING FIXTURE SCHEDULE

EQUIPMENT AND INSTALLATION BY PLUMBING CONTRACTOR
PROVIDE SPECIFIED ITEMS OR APPROVED EQUALS. (REFER TO SPECIFICATIONS)

MARK	DESCRIPTION	W	V	CW	HW
P1	WATER CLOSET (ADA) - FLOOR MOUNTED TANK TYPE, CRANE - HYMONT #31055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLON'S PER FLUSH. TANK TO HAVE PRESSURE ASSISTED FLUSH. SEAT - PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1955C PROVIDE CHROME PLATED SUPPLY AND STOP.	4"	2"	1/2"	-
P2	LAVATORY - WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE, SIZE 24"X21", FAUCET AND DRAIN - SYMMONS S-4080 WITH DRAIN GRID, BATTERY OPERATED WITH BATTERY INSIDE BODY OF FAUCET. PROVIDE CHROME PLATED SUPPLIES AND STOPS. DEARBORN, 17 GA TUBE "P" TRAP, CHROME PLATED. FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROWRAP. PROVIDE WITH CARRIER.	1 1/2"	1 1/2"	1/2"	1/2"
P3	UTILITY SINK - ELKAY ESSN 2520-G, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND LK173 CAST IRON P-TRAP.	3"	2"	3/4"	3/4"
P4	NOT USED	-	-	-	-
P5	NOT USED	-	-	-	-
P6	2 COMPARTMENT SINK - JUST #DL-ADA-2233-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"X33" OD WITH TWO COMPARTMENTS THAT ARE 16"X14"X8" DEEP, MATERIAL - 18 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN. INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND CONDENSATION REDUCTION. FAUCET AND DRAIN - GOOSENECK WITH SPRAY. JUST JNF-201 WITH TEAR DROP HANDLES AND JB-99 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLATED SUPPLY AND STOPS. DEARBORN 17 GA TUBE "P" TRAP, CHROME PLATED.	2"	1 1/2"	1/2"	1/2"
P7	URINAL - WALL MOUNTED URINAL CRANE #1147, 1.0 GPF, VITEROUS CHINA, MOUNT 17" A.F.F. TO MEET ADA REQUIREMENTS. PROVIDE WITH SLOAN #8186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.	2"	1 1/2"	3/4"	-
P8	TRAP PRIMER - TRAP PRIMER MIFAB #500 COMPLETE WITH MIFAB MI-GAP AIR GAP FITTING AND STAINLESS STEEL ACCESS DOOR.	-	-	1/2"	-
P9	DRINKING FOUNTAIN - ADA COMPLIANT WATER COOLER, 12 GPH, SEMI-RECESSED, 115 VOLTS, 400 WATTS, 4.8 AMPS, ELKAY #EBRKG-13.	2"	1 1/2"	1/2"	-
TD	TRENCH DRAIN - JTRENCH DRAIN J.R. SMITH #9851, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C CAST IRON SLOTTED GRATE, FULLY SLOPED CHANNELS.	3"	2"	-	-
HB1	HOSE BIB - SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE. (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 293 WITH E21 VACUUM BREAKER	-	-	3/4"	-
WH1	WALL HYDRANT - MADE WB600,175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUM BREAKER. WALL HYDRANT TO BE SIZED FOR WALL THICKNESS.	-	-	3/4"	-
FD1	FLOOR DRAIN - FLOOR DRAIN J.R. SMITH #2005-A, WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP.	3"	1 1/2"	-	-
FD2	FLOOR DRAIN - SMITH #2340 NB, FLOOR DRAIN WITH SEDIMENT BUCKET, DEEP SEAL P-TRAP, AND NICKEL BRONZE TOP.	4"	2"	-	-
FS1	FLOOR SINK - FLOOR SINK J.R. SMITH #3020. COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER	2"	2"	-	-

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04/30/07
NUMBER 309570
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	05/01/07	CONSTRUCTION DOCUMENTS

DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDW
SCALE:	1/8"=1'-0"
DATE:	MAY 1, 2007

SHEET TITLE

PLUMBING SYMBOLS AND SCHEDULES

P001

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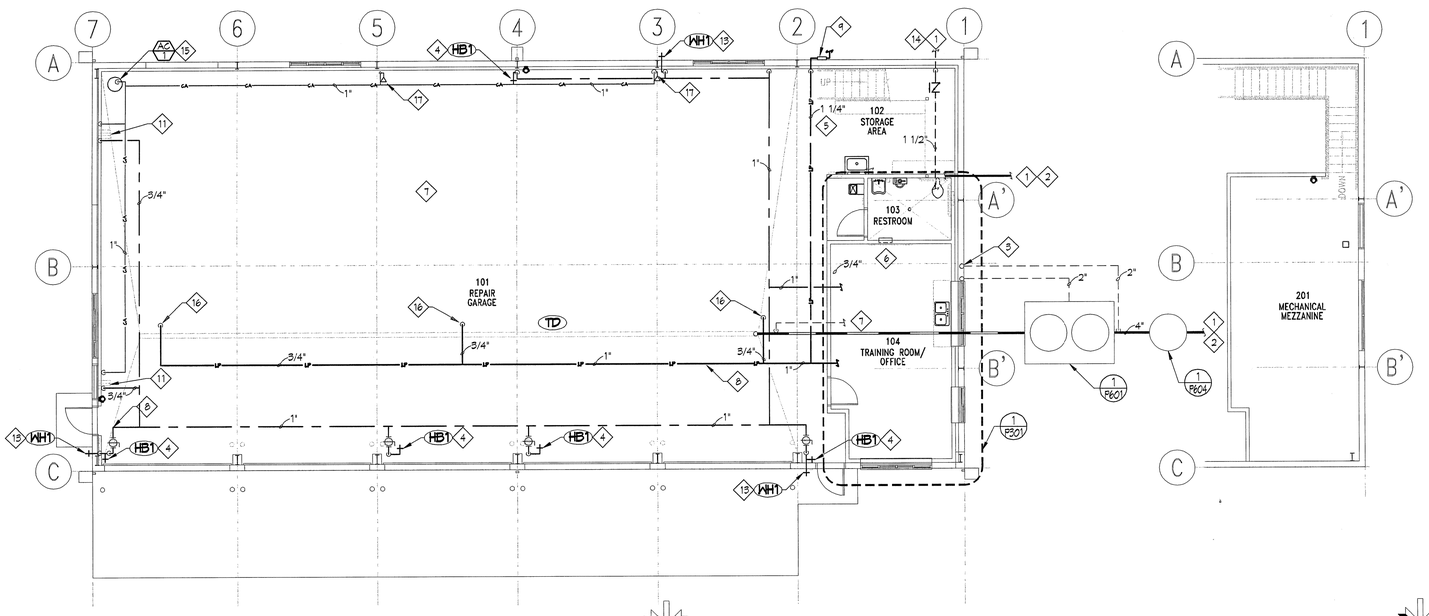

MAINTENANCE BUILDING PLAN

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

NORTH

MEZZANINE FLOOR PLAN

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

NORTH

KEY NOTES

1. SEE SITE DRAWINGS FOR CONTINUATION.
2. SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
3. VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR. THEN VENTS MAY BE CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
4. PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 9'-0" AFF.
5. ROUTE PIPING ABOVE STRUCTURE.
6. ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
7. PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. CAP LINE FOR FUTURE EXPANSION.
9. AT BUILDING EXTERIOR PROVIDE PROPANE SHUTOFF VALVE AT 24" A.F.G. PROVIDE PRESSURE REGULATOR TO REGULATE PRESSURE FROM 10 PSI TO 2 PSI. TURN, PENETRATE BUILDING WALL AND RISE TO ROOF TRUSSES. SEAL PENETRATION AND PROVIDE ESCUTCHEON.
10. EXTEND PROPANE GAS PIPING FROM TANK FARM TO THIS POINT. CONFIRM EXACT LOCATIONS.
11. CONNECT 1" COMPRESSED AIR LINE AND 3/4" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
12. 3/4" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
13. DROP WITH CW LINE ON WARM SIDE OF INSULATION TO WH1 AT 18" AFG.
14. REUSE EXISTING HOLDING TANK AND BLADDER TANK. RELOCATE TO MEZZANINE. REUSE EXISTING WATER SUPPLY. MAKE CONNECTION TO EXISTING IN THIS AREA. CONFIRM EXACT LOCATION.
15. AIR COMPRESSOR BY THIS CONTRACTOR. CONNECT 1-1/4" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
16. GAS LINE DOWN TO HEATER BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR TO REGULATE GAS PRESSURE FROM 2 PSI TO 11" W.C.. REFERENCE DETAIL 2/M603.
17. DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 5'-0" A.F.F.
18. CONNECT TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND INVERTED ELEVATION TO PROVIDE PROPER FLOW TO EXISTING SEPTIC DRAIN FIELD.

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	05/01/07	CONSTRUCTION DOCUMENTS

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ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDW
SCALE:	1/8"=1'-0"
DATE:	MAY 1, 2007

SHEET TITLE

PLUMBING PLAN

P201

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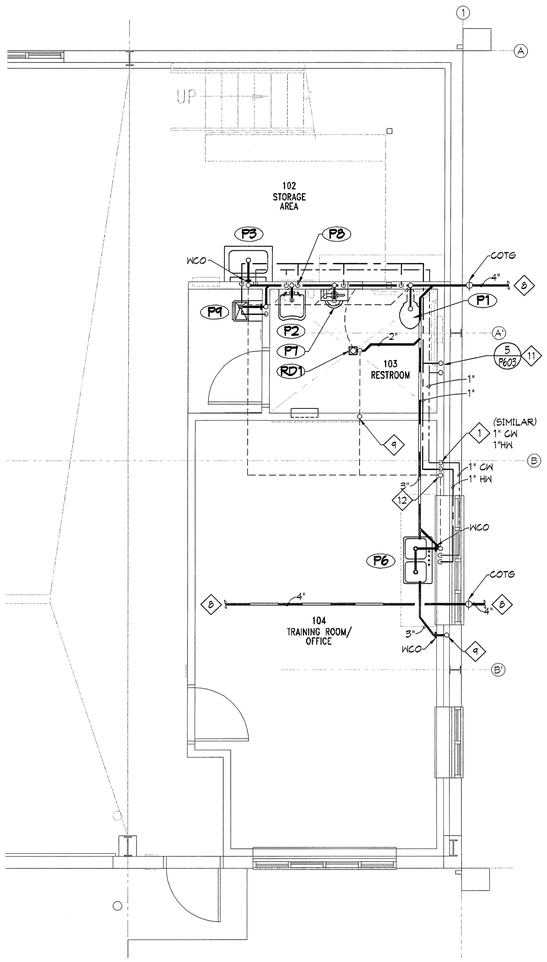
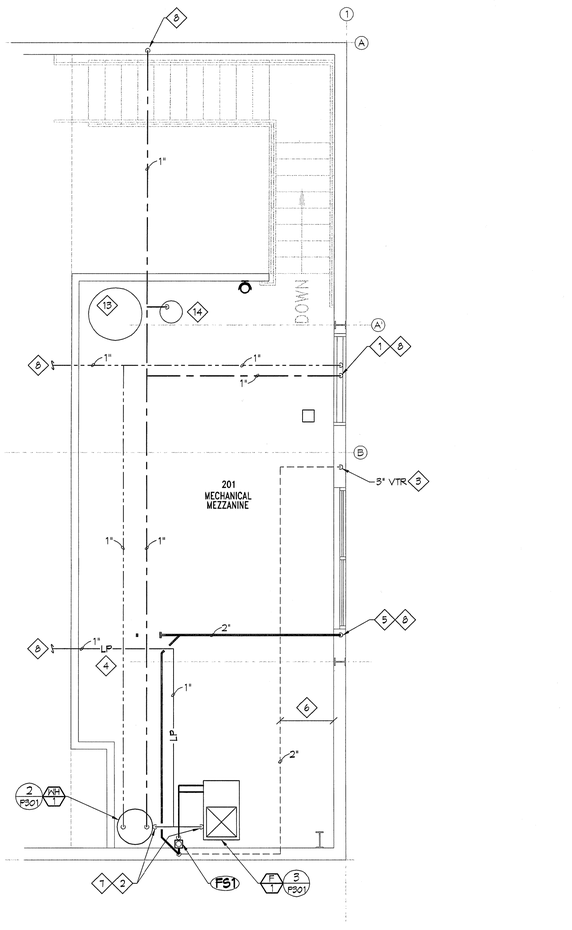


PLUMBING ENLARGEMENT (1 / P301)
SCALE: 1/4" = 1'-0"

NORTH



MEZZANINE PLUMBING PLAN (2 / P301)
SCALE: 1/4" = 1'-0"

NORTH

KEY NOTES

1. DROP WITH WATER LINES TO LEVEL BELOW. ENSURE WATERLINES DROP ON WARM SIDE OF INSULATION.
2. MAKE CONNECTION TO FURNACE AND COOLING COIL CONDENSATE DRAIN CONNECTIONS AND ROUTE TO DRAIN INDIRECTLY INTO FLOOR SINK. 1" MIN PVC.
3. 3" VENT LINE FROM BELOW CONTINUE THROUGH ROOF.
4. PROPANE GAS LINE.
5. DROP TO LEVEL BELOW WITH SANITARY SEWER LINE.
6. MAINTAIN MINIMUM OF 36" CLEAR SPACE IN FRONT OF ELECTRICAL PANELS IN THIS AREA. CONFIRM EXACT LOCATION AND COORDINATE WITH E.C.
7. MAKE GAS CONNECTION TO GAS APPLIANCE THROUGH SHUTOFF VALVE, UNION AND FLEXIBLE CONNECTOR.
8. CONTINUED PLUMBING PLAN P201.
9. RISE TO CEILING LEVEL WITH VENT.
10. DROP FROM LEVEL ABOVE WITH SANITARY DRAIN LINE.
11. DROP FROM LEVEL ABOVE WITH WATER LINES.
12. RISE TO LEVEL ABOVE WITH SANITARY VENT LINE.
13. EXISTING HOLDING TANK RELOCATED TO THIS AREA.
14. EXISTING PRESSURE TANK RELOCATED TO THIS AREA.

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MARK	DATE	DESCRIPTION
	05/01/07	CONSTRUCTION DOCUMENTS

DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDW
SCALE:	1/4"=1'-0"
DATE:	MAY 1, 2007

SHEET TITLE

PLUMBING ENLARGEMENTS

P301

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NOTES:

1 PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OF PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SANITRAY DISTRICT PRIOR TO BACKFILLING.

2 WIDTH OF TROUGH IN MANHOLE MUST BE SAME SIZE AS THE INLET PIPE INTO MANHOLE. DEPTH OF TROUGH MUST BE THE SAME AS ½ OF INLET PIPE DIAMETER

3 CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

4 REINFORCEMENT STEEL SHALL BE ASTM A615 GRADE 60.

5 THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-½ INCHES.

6 THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH.

7 THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA:

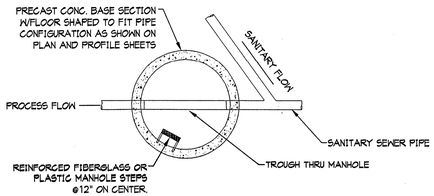
A) WALLS DESIGNED FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 90 PCF PLUS TRUCK SURCHARGES
B) TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.

8 MANHOLES WILL HAVE STAINLESS OR PLASTIC STEPS.

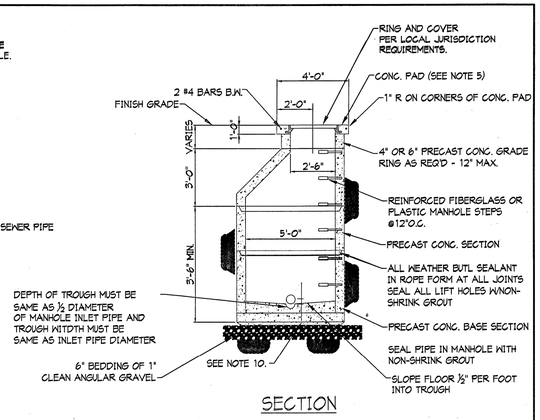
9 ALL MANHOLES MUST HAVE ROUND NOTCHED COVERS WITH PICK HOLE FOR REMOVAL

10 FOR NEW CONSTRUCTION BOTTOM OF INLET PIPE INTO MANHOLE MUST BE AT LEAST 3 INCHES ABOVE THE BOTTOM OF THE TROUGH THRU THE MANHOLE.

NOTE:
SANITARY PIPING FROM TOILETS MUST TIE IN DOWNSTREAM FROM SAMPLING MANHOLE.



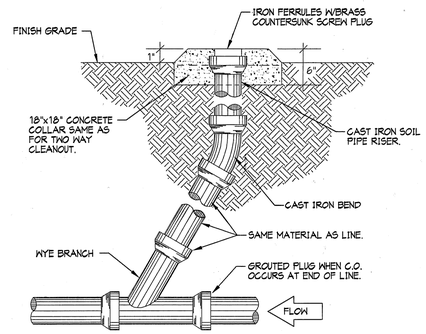
PLAN VIEW



SECTION

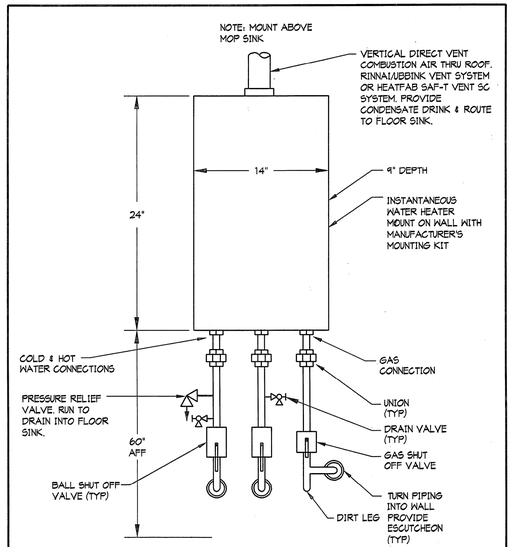
SAMPLING MANHOLE DETAIL

SCALE: NO SCALE — 4



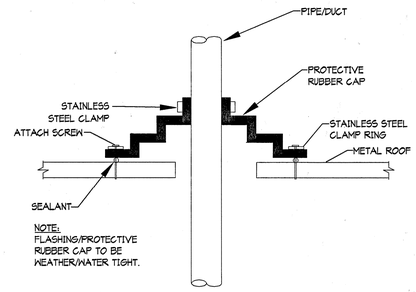
EXTERIOR CLEANOUT DETAIL

SCALE: NO SCALE — 1



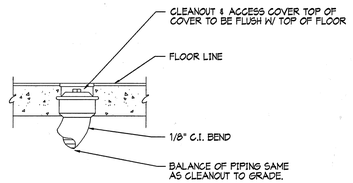
GAS INSTANTANEOUS WATER HEATER

5



METAL ROOF PENETRATION DETAIL

SCALE: NO SCALE — 2



FLOOR CLEANOUT

SCALE: NO SCALE — 3

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CLIFFORD DEE HOLMES
01/25/08
ALASKA
309570
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

PLUMBING DETAILS

P601

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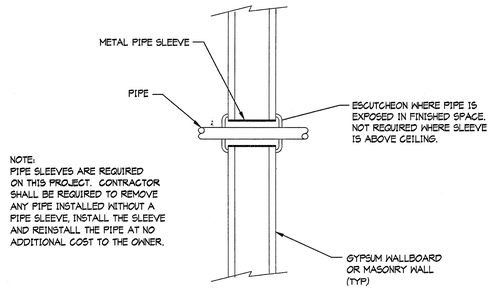
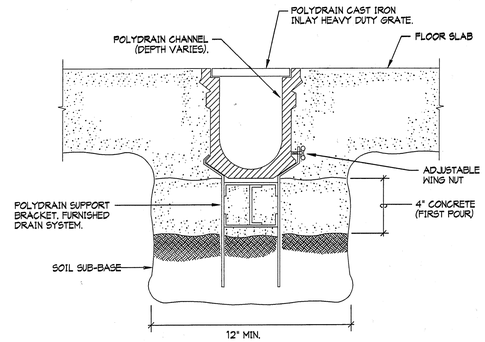
PIPING THRU GYPSUM WALL



NOTE:
PIPE SLEEVES ARE REQUIRED ON THIS PROJECT. CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY PIPE INSTALLED WITHOUT A PIPE SLEEVE, INSTALL THE SLEEVE AND REINSTALL THE PIPE AT NO ADDITIONAL COST TO THE OWNER.

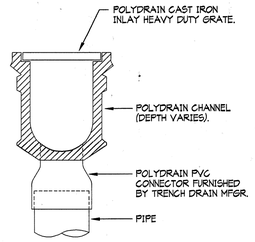
SCALE: NO SCALE — (4)

TYPICAL TRENCH DRAIN DETAIL



TRENCH DRAIN INSTALLATION

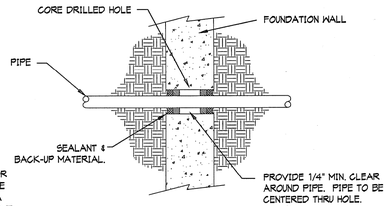
NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR WEATHERPROOF REQUIREMENTS.



TRENCH DRAIN PIPING

SCALE: NO SCALE — (1)

PIPE THRU WALL - BELOW GRADE



NOTE:
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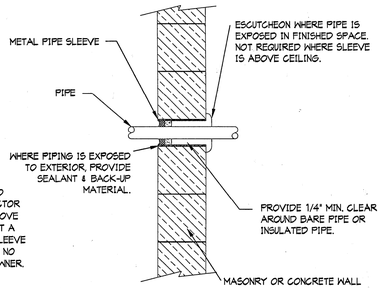
SCALE: NO SCALE — (5)

PIPE THRU WALL ABOVE GRADE



NOTE:
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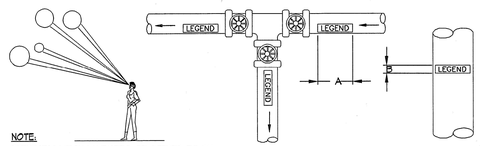
SCALE: NO SCALE — (2)

PIPE IDENTIFICATION DETAIL



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

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

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

SCALE: NO SCALE — (3)

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DESIGNER

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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER
CLIFFORD DEE HOLMES
01/25/08
NUMBER 309570
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

PLUMBING DETAILS

P602

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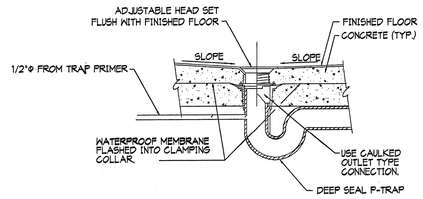
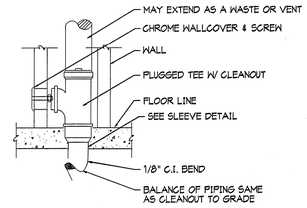
FLOOR DRAIN DETAIL

SCALE: NO SCALE — (7)



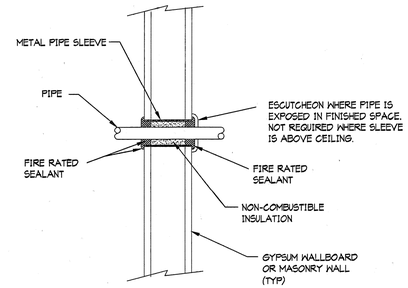
WALL CLEANOUT - ALL VERTICAL PIPE

SCALE: NO SCALE — (4)



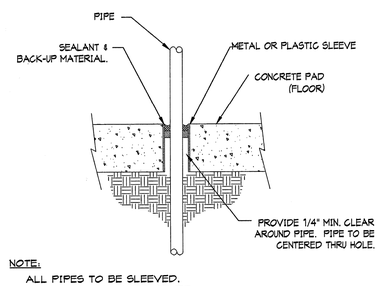
PIPING THRU FIRE-RATED WALL

SCALE: NO SCALE — (1)



PIPING THRU ON GRADE FLOOR

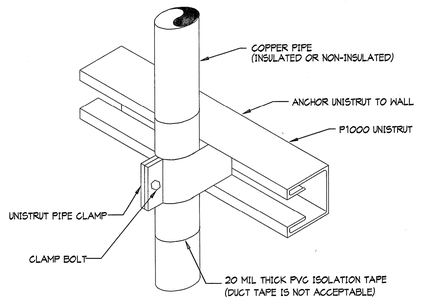
SCALE: NO SCALE — (8)



NOTE:
ALL PIPES TO BE SLEEVED. THIS INCLUDES WATER, SEWER ETC.

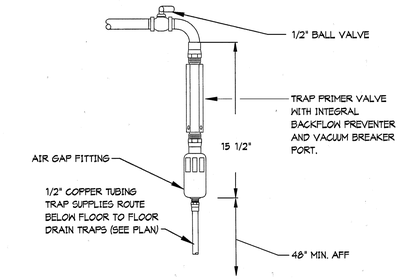
PIPE SUPPORT DETAIL

SCALE: NO SCALE — (5)



TRAP PRIMER DETAIL

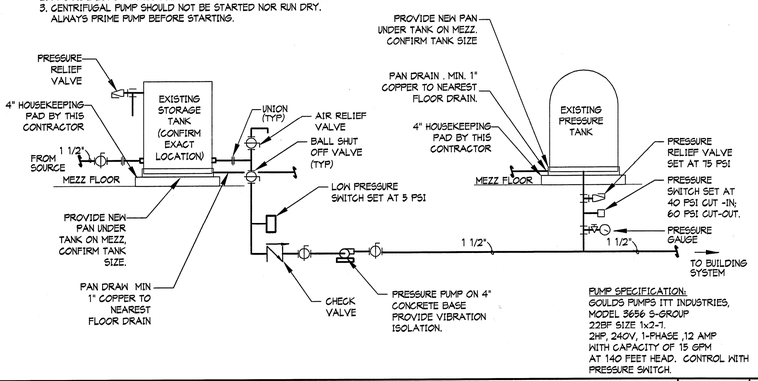
SCALE: NO SCALE — (2)



WATER PRESSURE SYSTEM

SCALE: NO SCALE — (9)

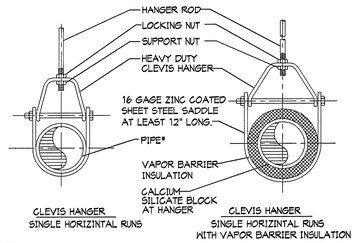
NOTE:
1. PLACE PUMP AS CLOSE TO STORAGE TANK AS POSSIBLE.
2. PROVIDE LONG RADIUS ELBOWS ON SUCTION AND DISCHARGE PIPING.
3. CENTRIFUGAL PUMP SHOULD NOT BE STARTED NOR RUN DRY. ALWAYS PRIME PUMP BEFORE STARTING.



PUMP SPECIFICATION:
GOULDS PUMPS ITT INDUSTRIES, MODEL 3656 S-GROUP 22BF SIZE 1x2-1, 2HP, 240V, 1-PHASE ,12 AMP WITH CAPACITY OF 15 GPM AT 140 FEET HEAD. CONTROL WITH PRESSURE SWITCH.

PIPE HANGERS DETAIL

SCALE: NO SCALE — (6)

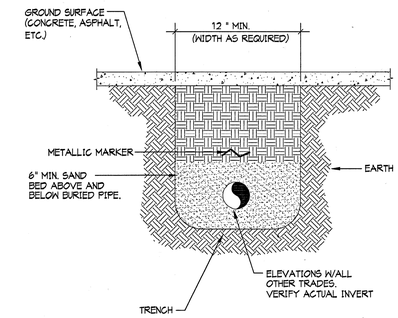


NOTE:
*INSTALL 20 MIL THICK PVC ISOLATION TAPE BETWEEN PIPE AND HANGER FOR DISSIMILAR MATERIAL. WRAP TAPE AROUND PIPE (DUCT TAPE OR ELECTRICIAN TAPE IS NOT ACCEPTABLE)

*PLUMBER'S TAPE IS NOT AN ACCEPTABLE METHOD TO HANG PIPE.

BURIED PIPE DETAIL

SCALE: NO SCALE — (3)



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LICENSED PROFESSIONAL ENGINEER — CLIFFORD DEE HOLMES — 01/25/08 — NUMBER 309570 — STATE OF UTAH

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DFCM PROJECT NO:	07029900
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DRAWN BY:	LCM
CHECKED BY:	CDH
SCALE:	NONE
DATE:	FEBRUARY, 2008

SHEET TITLE

PLUMBING DETAILS

P603

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ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	NOTES
○	FLUORESCENT LIGHT FIXTURE		(1) (2) (3)
⊗	EXIT LIGHT FIXTURE - WALL MOUNT		(1) (2) (4) (5)
○	WALL LIGHT FIXTURE		(1) (2)
$	SINGLE POLE SWITCH		(6)
$3	THREE WAY SWITCH		(6)
$M	MOTION SENSING SWITCH		(7)
T	THERMOSTAT		
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE		(6)
	DUPLEX CONVENIENCE OUTLET - GFI		(6)
	SINGLE CONVENIENCE OUTLET		(6)
	DOUBLE DUPLEX OUTLET		(6)
	SINGLE PHASE SPECIAL OUTLET		(6)
	NEMA - SUBSCRIPT MARKS TYPE		
	1. 125 V 30 A 5-30R 5-30P 3W		
	2. 250 V 20 A 6-20R 6-20P 3W		
	3. 250 V 50 A 10-50R 10-50P 3W		(13)
	4. 250 V 60 A		
J	JUNCTION BOX		(12)
J	JUNCTION BOX		(12) MOUNT AS NOTED
F	FAN MOTOR OUTLET - CEILING OR AS NOTED		
	TELEPHONE OUTLET		(6)
X	VEHICLE EXHAUST FAN SWITCH		
S	CARBON MONOXIDE SENSOR		
	DISCONNECT SWITCH		(7)
F	FUSED DISCONNECT SWITCH		(8) (13)
	MAGNETIC STARTER WITH DISCONNECT		(7)
	MULTI-MEDIA STRUCTURED CABLING OUTLET		
	MAIN POWER PANEL		
	PANEL BOARD		
	EMERGENCY LIGHT FIXTURE		(1) (2)
	OVERHEAD DOOR CONTROL		

———	WIRING IN CND IN CEILING OR WALL	— — —	WIRING IN CND IN GROUND OR FLOOR
——○	CONDUIT TURNED UP	——●	CONDUIT TURNED DOWN
——►	CIRCUIT HOME RUN TO PANEL. 3 CONDUCTORS INCLUDING THE EQUIPMENT GROUND CONDUCTOR.		
//►	CIRCUIT HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATE NUMBER OF CIRCUITS. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. EX. TWO CIRCUITS, FOUR CONDUCTORS, COMMON NEUTRAL AND THREE CIRCUITS WITH 7 CONDUCTORS (SEPERATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.		

INSTALL CONDUIT AS DRAWN ON THE PLANS. THE ONLY EXCEPTIONS ARE THOSE AUTHORIZED IN WRITING BY THE ENGINEER.
ALL CONDUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC.

ABBREVIATIONS/NOTES

AFF - ABOVE FINISHED FLOOR, AFG - ABOVE FINISHED GRADE,
AIC - AMPS INTERUPTING CAPACITY, BC - BARE COPPER, BFC - BELOW FINISHED CEILING
BFG - BELOW FINISHED GRADE, GND. OR G. - GONDUIT, CT - CURRENT TRANSDUCER,
DFA - DROP FROM ABOVE, EC - ELECTRICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
MC - MECHANICAL CONTRACTOR, MCA - MINIMUM CIRCUIT AMPS,
P.C. - PLUMBING CONTRACTOR, POC - POINT OF CONNECTION, POS - POINT OF SALES,
RMC - RIGID METAL CONDUIT, SCA - SHORT CIRCUIT AMPERES,
TC - TEMP. CONTROL CONTRACTOR, VA - VOLT/AMPS, VIF - VERIFY IN FIELD,
WP - WEATHER PROOF/NEMA 3R

(1) SEE LIGHTING FIXTURE SCHEDULE FOR TYPE AND SPECIFICS.
(2) SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING OF FIXTURE.
(3) WIRE FIXTURE FROM ADJACENT J-BOX
(4) DO NOT SWITCH
(5) PROVIDE DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS BY THE DARKENED AREA
(6) ACCEPTABLE EQUALS ARE P&S, LEVITON, COOPER, HUBBELL
(7) ACCEPTABLE EQUALS ARE GENERAL ELECTRIC, ALLEN-BRADLEY, SQUARE D
(8) ACCEPTABLE EQUALS ARE LEVITON, P&S, HUBBELL, COOPER
(9) PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED
(10) USE HEAVY DUTY FOR 480 VOLT.
(11) ACCEPTABLE EQUALS ARE HUBBELL, ORTRONICS, SIEMON
(12) SWITCH WITH LIGHTS UNLESS INDICATED OTHERWISE.
(13) PROVIDE RECEPTACLE CONFIGURATION AND NUMBER OF CONDUCTORS REQUIRED BY EQUIPMENT.

LIGHT-FIXTURE SCHEDULE

	DESCRIPTION TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS No	LAMPS TYPE	VOLTS	MOUNTING	REMARKS
	8' 4-LAMP INDUSTRIAL FLUORESCENT FIXTURE							
L1		METALUX	8TDIM232-120V-EEB2	4	F32T8SP35	120	PENDENT	(1)
								110 VA
	RECESSED FLANGED 2'X4' 3-LAMP FLUORSCENT FIXTURE							
L2		METALUX	2FC8-332A-120VEEB2	3	F32T8SP35	120	RECESSED	(1)
								98 VA
	SURFACE MOUNTED FLUORSCENT WRAP AROUND FIXTURE							
L3		METALUX	W8232A-120VEEB1	2	F32T8SP35	120	SURFACE	
								68 VA
	EMERGENCY BATTERY PACK							
L4		SURELITES	CCTN6SD-SM	2	C/N UNIT	120	SURFACE	
								32 VA
	LED EXIT SIGN W/ REMOTE CAPACITY							
L5		SURELITES	LPXTODGWH	-	LED	120	UNIV.	
								7 VA
	OUTDOOR 250W METAL HALIDE WALLPACK							
L6		LUMARK	MHWL250-120V-WHT	1	250WMH	120	SURFACE	
								275 VA
	OUTDOOR 400W METAL HALIDE FLOOD LIGHT							
L7		McGRAW EDISON	AMF-Y-400MH-120-T6-WH	1	400WMH	120	WALL	
								460 VA
	100W METAL HALIDE FIXTURE							
L8		LUMARK	MHIP-T-100-120V-EM/EC/12V-F1-PE	1	15"TDC	120	WALL	(2)
								110 VA
	4' 2-LAMP FLUORESCENT WALL FIXTURE							
L9		METALUX	BC232-120V-EEB1	2	F32T8SP35			
								65 VA
	POLE LIGHT - 30' POLE							
L10		McGRAW EDISON	CLM-AM-400MH-240-35-FGAP/ MA100T-AP-RS56M305V	1	400WMH	240	POLE	
								460 VA
	BATTERY PACK							
L11		SURE-LITES	XRO			120	WALL 7'-6"	
								18 VA

NOTE: THE FIXTURES LISTED IN THIS SCHEDULE REPRESENT THE QUALITY AND TYPE OF FIXTURES DESIRED. EQUALS OF THOSE MANUFACTURERS NOTED IN THE REMARKS ARE ACCEPTED. FOR THOSE FIXTURES WITHOUT A MANUFACTURE DESIGNATION IN THE REMARK COLUMN THE SUPPLIER MAY SUBMIT A FIXTURE THEY BELIEVE TO BE EQUAL TO THE ONE SPECIFIED. TO BE ACCEPTABLE THE FIXTURES SUBMITTED MUST BE OF THE SAME TYPE AND MATERIAL AS THAT SPECIFIED AND MUST RECEIVE APPROVAL FROM THE ENGINEER BY ADDENDUM PRIOR TO BID.

(1) PROVIDE TWO BALLASTS AND WIRE FOR INBOARD/OUTBOARD SWITCHING.
(2) ORDER WITH MR16, 35W LAMP FOR 12V EMERGENCY CIRCUIT.

MECHANICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ELECTRICAL V/PH	MCA	MOCP	LMHP	DISCONNECT SIZE/POLE	FUSE SIZE	REMARKS
B-1	RADIANT HEATER	120/1	1.0					
CU-1	CONDENSER	230/1	12.0	20.0				(1)
EF-1	EXHAUST FAN	120/1	0.4					(2)
EF-2	EXHAUST FAN	230/1	8.0	15.0	1.0			(4)(5)
F-1	FURNACE	120/1	9.8	15.0	1/2	20A SWITCH/1	NF	(6)
VP-1	VACUUM PUMP	120/1	4.8	15.0	1/3	20A SWITCH/1	NF	(6)
WELL	WELL PUMP	240/1	11.0	35.0	3	60/2	25AF	
LM	LOUVER MOTOR	120/1	1.5					(4)
GATE	AUTO GATE	240/1	8.0	20.0	1	30/2	20AF	(7)
WH-1	WATER HEATER	120/1	0.8					
	PRESSURE PUMP	240/1	6.8		2	30/2		(3)

V/PH/Hz = VOLTAGE / PHASE / HERTZ
MCA = MINIMU CIRCUIT AMPACITY
MOCP = MAXIMUM OVER CURRENT PROTECTION LISTED BY THE MANUFACTURER
NF = NON-FUSED
LMHP = LARGEST MOTOR HORSE POWER

NOTES:
(1) UNIT FURNISHED WITH DISCONNECT INSTALLED BY EC.
(2) SWITCH WITH LIGHT FIXTURE
(3) PROVIDE NEMA 1 DISCONNECT. FUSE TO MAX FUSE SIZE AS LISTED BY MANUFACTURER
(4) INTERLOCK LOUVER MOTOR WITH FAN MOTOR. COORDINATE WITH MC.
(5) PROVIDE COMBINATION STARTER (SQUARE D 8538-5BG61V02-GP15X20YT4)
(6) PROVIDE DISCONNECT DEVICE AS REQUIRED BY UNIT.
(7) ASSUMED LOAD AND VOLTAGE. E.C. SHALL CONFIRM LOAD AND VOLTAGE.

CONDUIT/CONDUCTOR SCHEDULE

MARK	AMPS	CONDUIT CABLE	CONDUCTOR QTY	CONDUCTOR SIZE	CONDUCTOR INSUL.	REMARKS
(12)	20	3/4"	2	12	(1)	(2)
(12)	20	3/4"	4	12	(1)	(2)
(20)	30	3/4"	2	10	(1)	(2)
(20)	30	1"	2	10	(1)	(2)
(28)	50	3/4"	2	8	(1)	(2)
(26)	65	1"	2	6	(1)	(2)
(35)	100	1 1/4"	3	3	(1)	(2)
(3-4)	335	3"	3	400	(1)	(2)
(330)	200	2 1/2"	3	3/0	(1)	(2)

NOTE:
(1) THHN/THWN-2.
(2) ALL CONDUIT SHALL CONTAIN A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. ACCOUNT FOR PARALLEL RUNS.

SUFFIX:
"A" INDICATES ALUMINUM CONDUCTORS
"Y" INDICATES YELLOW ISOLATED GROUND CONDUCTOR IN ADDITION TO THE GROUND CONDUCTOR IN NOTE ABOVE.

GENERAL NOTES

1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.

2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS THEY APPLY. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.

3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.

4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.

5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.

6. ELECTRICAL CONTRACTOR SHALL CONFIRM THE EXAGT LOCATION OF THE POWER COMPANY SERVICE TRANSFORMER, BEFORE INSTALLING THE SERVICE CONDUIT.

7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SERVICE FEEDER TO THE BUILDING WITH THE LOCAL UTILITY. PROVIDE LABOR AND CONDUIT, CONDUCTORS, WEATHER HEAD (IF AERIAL FEED), WIRE WAYS, TRANSFORMER LUGS, METER BASES, METER CONDUIT, CONDUCTORS, ETC., AS NEEDED FOR A COMPLETE ELECTRIC SERVICE TO THIS FACILITY.

8. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.

9. THE CONTRACTOR SHALL NOTIFY THE MANUFACTURER THAT THE LAYOUT AND DIMENSIONS ARE CRITICAL FOR ALL PANELS, SWITCHGEAR, ETC. AND NO PIECE OF EQUIPMENT SHALL EXCEED THE PHYSICAL SIZE INDICATED ON THE PLANS.

10. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.

11. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LIGHT FIXTURE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.

12. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.

13. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.

14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE TELEPHONE SERVICE CONDUIT WITH A NYLON PULL CORD INSTALLED. EC SHALL CONFIRM ROUTING, SIZE, AND LOCATION OF THE TELEPHONE SERVICE CONDUIT, AND THE MAIN TELEPHONE BOARD WITH THE TELEPHONE COMPANY AND EACH TELEPHONE OUTLET WITH OWNER PRIOR TO ROUGH-IN.

15. EC SHALL INSTALL A 3/4" CONDUIT WITH (1) #6 BARE COPPER CONDUCTOR FROM TELEPHONE DEMARK TO THE MAIN GROUNDING BUS.

16. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.

17. LIGHT FIXTURES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.

18. ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID.

19. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT WITH FULL CORD, FROM ALL HEATING/COOLING EQUIPMENT TO THE THERMOSTAT, FOR THE AUTOMATIC TEMPERATURE SYSTEM CONTROL. CONFIRM AND COORDINATE WITH THE MECHANICAL CONTRACTOR.

20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE STRUCTURED CABLING FROM EACH TELEPHONE OR MULTIMEDIA OUTLET TO THE TELEPHONE/DATA BOARD/RACK. THE CABLE SHALL BE LABELED ON EACH END FOR PROPER IDENTIFICATION BEFORE THE CABLE ENDS ARE TERMINATED. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE CABLES IN THE OUTLET AND IN THE PATCH PANEL OR BLOCK IN THE TELECOMMUNICATIONS CLOSET.

21. AFTER THE FACILITY IS COMPLETE AND BEEN IN FULL OPERATION FOR TWO WEEKS THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE UTILITY DEMAND, THE SYSTEM VOLTAGE (PHASE TO PHASE AND PHASE TO GROUND) AND AN AMMETER READING (EACH PHASE) ON THE MAIN FEEDERS. THESE READINGS SHALL BE OBTAINED DURING NORMAL OPERATING HOURS FOR THE FACILITY AND SHALL BE RECORDED AND A COPY SENT TO THE ENGINEER.

22. DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL REMOVE, REROUTE, AND/OR RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT THAT CONFLICTS WITH THE REMODEL OR ADDITION. ALL SYSTEMS SHALL BE OPERABLE AT THE COMPLETION OF THE PROJECT.

23. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL EQUIPMENT IS REMOVED.

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STAN WALTER JOHNS
01/31/08
NUMBER 5246941
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	02-2008	CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO:	077325
DFCM PROJECT NO:	07029900
ARCHIPLEX PROJECT NO:	0708.01
DRAWN BY:	LCM
CHECKED BY:	SWJ
SCALE:	NONE
DATE:	FEBRUARY, 2008

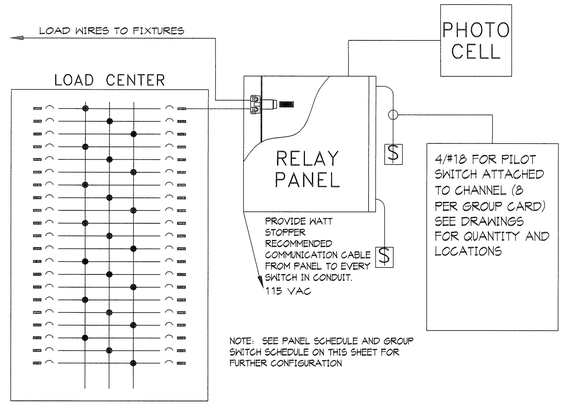
SHEET TITLE

GENERAL NOTES, SCHEDULES

E001

EC SHALL PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM WITH ALL CABLING, SWITCHES, CABINETS, PHOTO CELLS ETC.

TYPICAL RELAY PANEL CONNECTIONS



PANEL SCHEDULE - LCP

RELAY	CIRCUIT	DESCRIPTION	SWITCH/SENSOR
1	A-3	SHOP LIGHTS	WALL SWITCH
2	A-3	SHOP LIGHTS	WALL SWITCH
3	A-3	SHOP LIGHTS	WALL SWITCH
4	A-3	SHOP LIGHTING	WALL SWITCH
5	A-5	SHOP LIGHTING	WALL SWITCH
6	A-5	SHOP LIGHTING	WALL SWITCH
7	A-9	L6 WALL LIGHTS	PHOTOCELL
8	A-19	L6 WALL LIGHTS	PHOTOCELL
9	A-11	L7 WALL LIGHTS	WALL SWITCH
10	A-17	L7 WALL LIGHTS	WALL SWITCH
11	M-32	GATE LIGHTING	PHOTOCELL
12	A-19	SPARE	
13		SPARE	

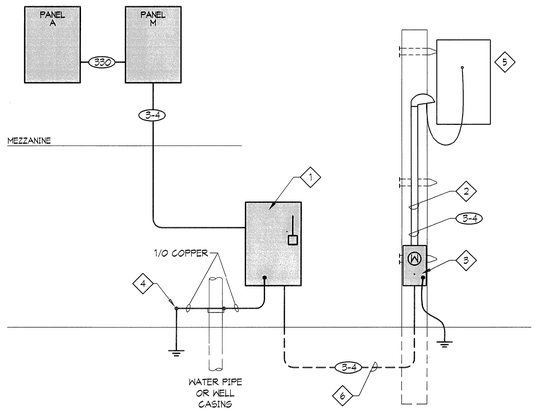
LCP ID: O
LOCATION: MEZZANINE
SUPPLY CIRCUIT: A-2

GROUP SWITCH SCHEDULE - LCP

CHANNEL	DESCRIPTION	FUNCTION	LOADS CONTROLLED
A	SHOP	ON/OFF	LCP O: 1-5
B	LIGHTS	ON/OFF	LCP O: 6,7
C	FLOOD LIGHTS	ON/OFF	LCP O: 8,9
D	OPEN STORAGE	ON/OFF	LCP O: 9

LCP ID: O
LOCATION: MEZZANINE

LIGHTING CONTROL PANEL CONFIGURATION — SCALE: NONE — 1



POWER RISER
SCALE: NONE

KEY NOTES

1. SERVICE DISCONNECT. PROVIDE A 400 AMP, TWO POLE, NEMA 3R, FUSED DISCONNECT, FUSED 350 AMPS. INSTALL THE DISCONNECT ON THE SIDE OF THE BUILDING. SEE SHEET E201.
2. PROVIDE A MAST, WEATHERHEAD AND CONDUCTORS ON THE POLE DOWN TO THE METER BASE AS REQUIRED BY THE POWER COMPANY.
3. PROVIDE A 320 AMP METER BASE THAT COMPLIES WITH ALL REQUIREMENTS OF THE POWER COMPANY. INSTALL THE METER BASE ON THE POWER COMPANY POLE AND INSTALL THE NEW SERVICE DROP AND SERVICE ENTRANCE CONDUCTORS AS SHOWN. GROUND THE METER BASE AS REQUIRED BY THE POWER COMPANY.
4. EC SHALL PROVIDE 30' OF #4 AWG BARE COPPER ENCASED IN AT LEAST 2" OF CONCRETE LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH PER 2005 NEC SECTION 250.52 (A)(3).
5. POWER COMPANY EXISTING POLE AND NEW POLE MOUNTED TRANSFORMER. COORDINATE WITH THE POWER COMPANY FOR THE REQUIREMENTS AND PROVIDE A COMPLETE ELECTRICAL SERVICE TO THE FACILITY.
6. DO NOT PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN THIS CONDUIT FROM THE METER TO THE SERVICE DISCONNECT.

PANEL: M — NQOD — TYPE: MEZZANINE — LOCATION: — VOLTAGE 120 / 240 — PHASE 1 WIRES 3 — AIC 10000 AMPS — MOUNTING: X SURFACE, FLUSH — FEED: X BOTTOM, TOP — MAINS: 400 AMP, X LUGS, BREAKER — DIMS. 20" W, 5.75" D, 62" H — SPECIAL EQUIPMENT: X GROUND BUS; X SUB-FEED BRKR; NEMA 3R; SURGE PROTECTOR

CIR NO	CIRCUIT DESCRIPTION	CODE	OUTLETS LTS	OUTLETS CO	OUTLETS MIS	BRKR P	BRKR AMP	WIRE SIZE	CIRCUIT LOAD	COMBINED PHASES A	COMBINED PHASES C	CIRCUIT LOAD	WIRE SIZE	BRKR AMP	BRKR P	OUTLETS MIS	OUTLETS CO	OUTLETS LTS	CODE	CIRCUIT DESCRIPTION	CIR NO
1	PANEL A	1,3			1	2	200		12024	12944		920		20	2	1			1	GATE	2
3						-			11935		12855	920		--	-					-----	4
5	OVERHEAD DOOR				1	1	20	10	1200	1430		230		20	2			1	1	GATE LIGHT	6
7	OVERHEAD DOOR				1	1	20	10	1200		1430	230		--	-					-----	8
9	OVERHEAD DOOR				1	1	20	10	1200	1200				20	1					SPARE	10
11	OVERHEAD DOOR				1	1	20	10	1200		1200			20	1					SPARE	12
13	OVERHEAD DOOR				1	1	20	10	1200	1200				20	1					SPARE	14
15	HEAT CABLE	6			1	1	20	10	1200		1200			20	1					SPARE	16
17	HEAT CABLE	6			1	1	20	10	1200	1200				20	1					SPARE	18
19	HEAT CABLE	6			1	1	20	10	1200		1200			20	1					SPARE	20
21	HEAT CABLE	6			1	1	20	10	1200	1200				20	1					SPARE	22
23	VEHICLE PLUG				1	1	20	10	1200		1200			20	1					SPARE	24
25	VEHICLE PLUG				1	1	20	10	1200	2376		1176	12	15	1	1				F-1	26
27	VEHICLE PLUG				1	1	20	10	1200		1200			35	2					SPARE	28
29	VEHICLE PLUG				1	1	20	10	1200	1200					-						30
31	VEHICLE PLUG				1	1	20	10	1200		3240	2040		35	2				1	WELL PUMP	32
33	ROOF HEAT CABLE	6			1	1	20	10	1200	3240		2040			-						34
35	ROOF HEAT CABLE	6			1	1	20	10	1200		2640	1440		20	2	1			1	CU-1	36
37	SPARE				1	1	20			1440		1440			-						38
39	SPARE				2	1	20				4800	4800		50	2	1			1	WELDER	40
41						-				4800		4800			-						42

NOTE:

PHASE TOTALS			CONN LOAD	CODES
VA	32250	30465	62 KVA	1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
DIV			AV. AMPS	2 = SHUNT-TRIP BREAKER; 5 = GFCI BREAKER
AMPS	269	258	265 A	3 = SUBFEED BREAKER; 6 = GFEP BREAKER

4 = PROVIDE LOCK OFF DEVICE

THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL: A — NQOD — TYPE: MEZZANINE — LOCATION: — VOLTAGE 120 / 240 — PHASE 1 WIRES 3 — AIC 10000 AMPS — MOUNTING: X SURFACE, FLUSH — FEED: BOTTOM, X TOP — MAINS: 225 AMP, X LUGS, BREAKER — DIMS. 20" W, 5.75" D, 35" H — SPECIAL EQUIPMENT: X GROUND BUS; SUB-FEED BRKR; NEMA 3R; SURGE PROTECTOR

CIR NO	CIRCUIT DESCRIPTION	CODE	OUTLETS LTS	OUTLETS CO	OUTLETS MIS	BRKR P	BRKR AMP	WIRE SIZE	CIRCUIT LOAD	COMBINED PHASES A	COMBINED PHASES C	CIRCUIT LOAD	WIRE SIZE	BRKR AMP	BRKR P	OUTLETS MIS	OUTLETS CO	OUTLETS LTS	CODE	CIRCUIT DESCRIPTION	CIR NO
1	LIGHTING CTL.				1	1	20	12	180	1580		1200	12	20	1	2				TRAINING RM 104	2
3	SHOP LTS.		15			1	20	10	1340		2540	1200	12	20	1	2				TRAINING RM 104	4
5	SHOP LTS.		10			1	20	10	1152	2532		1380	12	20	1	2				TRAINING RM 104	6
7	OFFICE/MEZZ LTS.		13		1	1	20	12	1306		2062	756	12	20	1	1	1			P-9, RM 103	8
9	TYPE L7 EXTERIOR		3			1	20	10	1440	3040		1650	12	20	1	1				MICROWAVE	10
11	TYPE L6 EXTERIOR		4			1	20	10	1500		2400	900	10	20	1		5			REPAIR RM 101	12
13	REFRIGERATOR				1	1	20	12	850	1840		540	10	20	1		3			EXTERIOR PWR	14
15	COUNTER				1	1	20	12	1200		2016	816		20	2	1			1	PRESSURE PUMP	16
17	EXTERIOR L7		2			1	20	10	920	1136		816			-						18
19	EXTERIOR L6		3			1	20	10	645		1445	500	12	20	1		1			PHONE/DATA	20
21	SPARE					1	20			936		936	12	15	1	4				B-1 CONTROLLER	22
23	SPARE					1	20				180	180	12	20	1		1			REPAIR GARAGE	24
25	SPARE					1	20			0				15	1					SPARE	26
27	SPARE					1	20				330	330	12	20	1	1				WH-1, LM	28
29	SPARE					1	20			0				20	1					SPARE	30
31	SPARE					1	20				0			30	2					SPARE	32
33	SPARE					1	20			0				-							34
35	SPARE					1	20				960	960		15	2	1			1	EF-2	36
37	SPARE					1	20			960		960		-							38
39	SPARE					2	15				0			30	2					SPARE	40
41						-				0				-							42

NOTE:

PHASE TOTALS			CONN LOAD	CODES
VA	12024	11935	24 KVA	1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
DIV			AV. AMPS	2 = SHUNT-TRIP BREAKER; 5 = GFCI BREAKER
AMPS	100	99	100 A	3 = SUBFEED BREAKER; 6 = GFEP BREAKER

4 = PROVIDE LOCK OFF DEVICE

THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

SERVICE LOAD CALCULATIONS

DESCRIPTION	LOAD	DEMAND	NEW LOAD	AMPS
LIGHTING	7378	1.25	9222.5	
HVAC	2112	1	2112	
CONTINUOUS	18830	1.25	23538	
RECEPTACLES	1440	1	1440	
NON-CONTINUOUS	29756	1	29756	
LARGEST 5HP NEW MOTOR	6720	0.25	1680	
TOTAL SERVICE LOAD			67148 = 282.3	

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #3437A
SR-44 @ M.P. 0.5 ±
GREENDALE UTAH

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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER — STAN WALTER JOHNS — 01/31/08 NUMBER 5246941 — STATE OF UTAH

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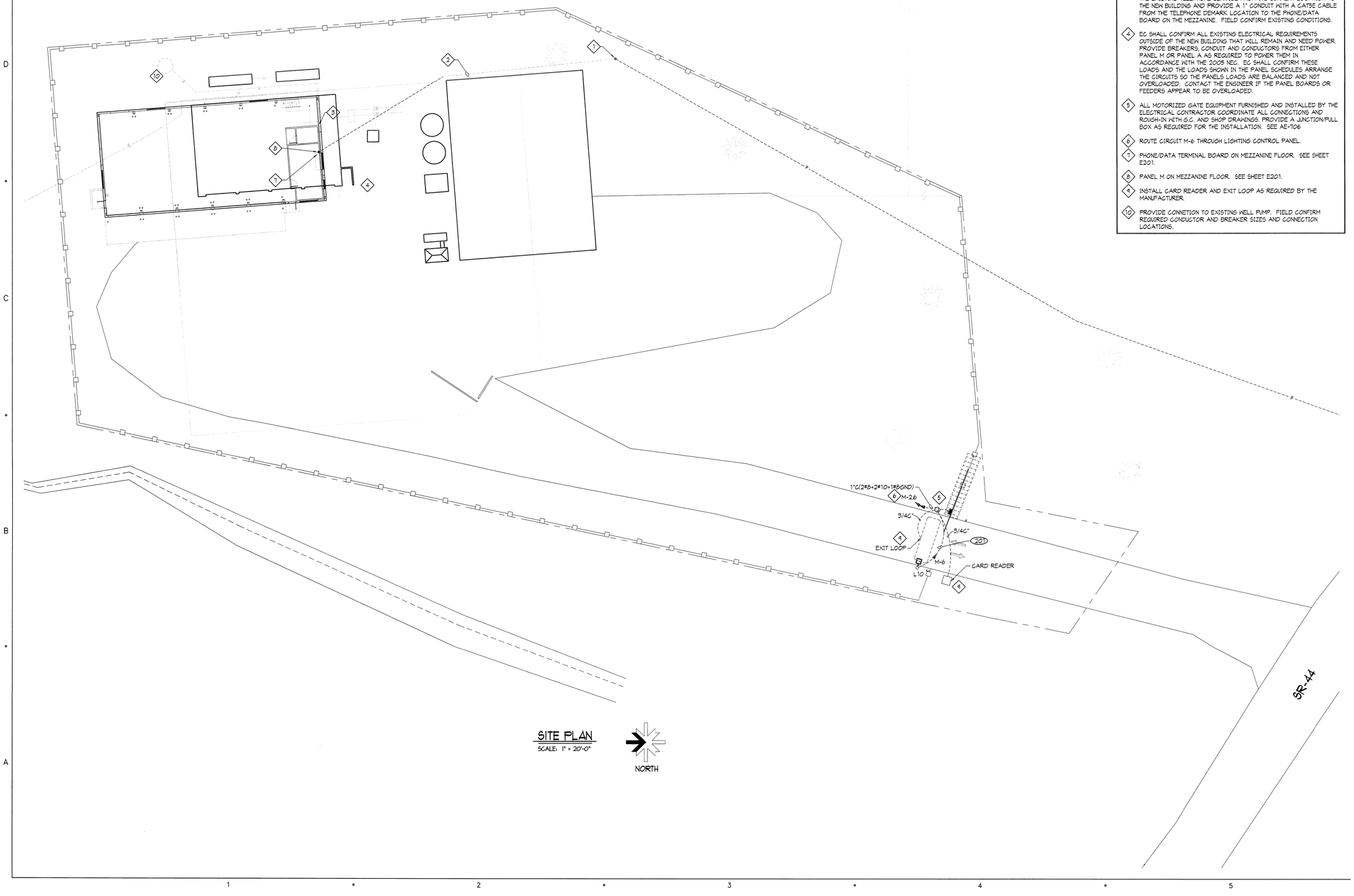
SHEET TITLE

ELECTRICAL PANELS, LOAD CALCS, AND RISER DIAGRAM

E002



KEY NOTES

1. EXISTING POWER COMPANY POWER POLE WITH SINGLE PHASE POLE MOUNTED TRANSFORMER. EC SHALL FIELD CONFIRM THE EXACT LOCATION AND REQUIREMENTS FOR THE NEW SERVICE AND CONNECTIONS WITH THE POWER COMPANY AND PROVIDE A COMPLETE ELECTRICAL SERVICE TO THE FACILITY.
2. EC SHALL REMOVE THE EXISTING SERVICE ENTRANCE FEEDERS AND PROVIDE THE NEW FEEDER AS SHOWN ON SHEET E002. FIELD CONFIRM EXISTING CONDITIONS AND PROVIDE UNOBSTRUCTED ROUTING FOR THE INSTALLATION OF THE FEEDER. INSTALL THE SERVICE ENTRANCE FEEDERS AS REQUIRED BY THE POWER COMPANY AND THE 2005 NEC.
3. EC SHALL COORDINATE WITH THE TELEPHONE COMPANY AND EXTEND THE EXISTING TELEPHONE SERVICE FROM ITS CURRENT LOCATION TO THE NEW BUILDING AND PROVIDE A 1" CONDUIT WITH A CAT5E CABLE FROM THE TELEPHONE DEMARK LOCATION TO THE PHONE/DATA BOARD ON THE MEZZANINE. FIELD CONFIRM EXISTING CONDITIONS.
4. EC SHALL CONFIRM ALL EXISTING ELECTRICAL REQUIREMENTS OUTSIDE OF THE NEW BUILDING THAT WILL REMAIN AND NEED POWER. PROVIDE BREAKERS, CONDUIT AND CONDUCTORS FROM EITHER PANEL M OR PANEL A AS REQUIRED TO POWER THEM IN ACCORDANCE WITH THE 2005 NEC. EC SHALL CONFIRM THESE LOADS AND THE LOADS SHOWN IN THE PANEL SCHEDULES ARRANGE THE CIRCUITS SO THE PANELS LOADS ARE BALANCED AND NOT OVERLOADED. CONTACT THE ENGINEER IF THE PANEL BOARDS OR FEEDERS APPEAR TO BE OVERLOADED.
5. ALL MOTORIZED GATE EQUIPMENT FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR COORDINATE ALL CONNECTIONS AND ROUGH-IN WITH G.C. AND SHOP DRAWINGS. PROVIDE A JUNCTION/PULL BOX AS REQUIRED FOR THE INSTALLATION. SEE AE-106
6. ROUTE CIRCUIT M-6 THROUGH LIGHTING CONTROL PANEL.
7. PHONE/DATA TERMINAL BOARD ON MEZZANINE FLOOR. SEE SHEET E201.
8. PANEL M ON MEZZANINE FLOOR. SEE SHEET E201.
9. INSTALL CARD READER AND EXIT LOOP AS REQUIRED BY THE MANUFACTURER.
10. PROVIDE CONNETION TO EXISTING WELL PUMP. FIELD CONFIRM REQUIRED CONDUCTOR AND BREAKER SIZES AND CONNECTION LOCATIONS.

SITE PLAN
SCALE: 1" = 20'-0"

NORTH

CLIENT

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SR-44 @ M.P. 0.5 ±
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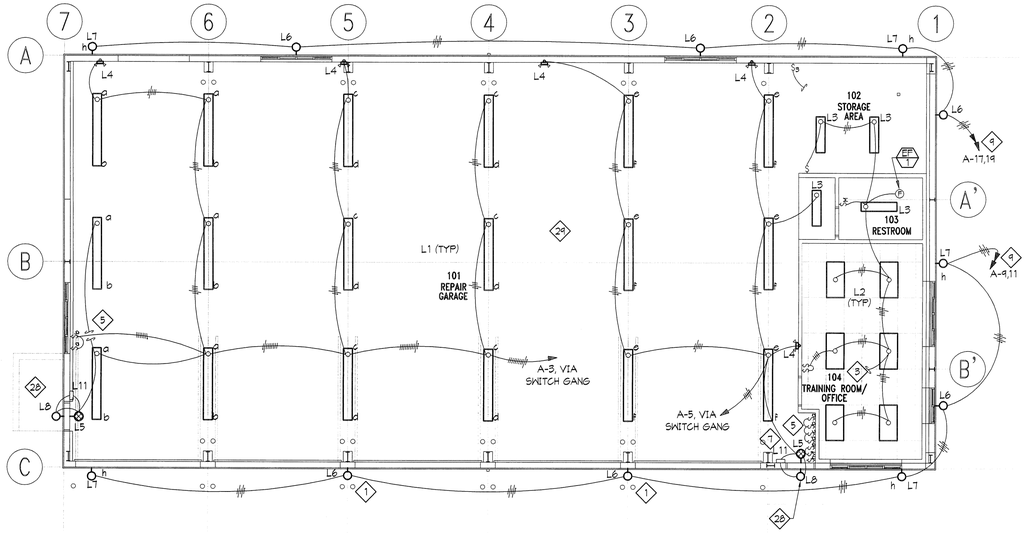
SHEET TITLE

SITE PLAN

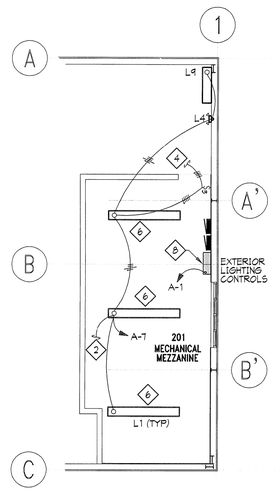
E101



MAIN LEVEL LIGHTING PLAN

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

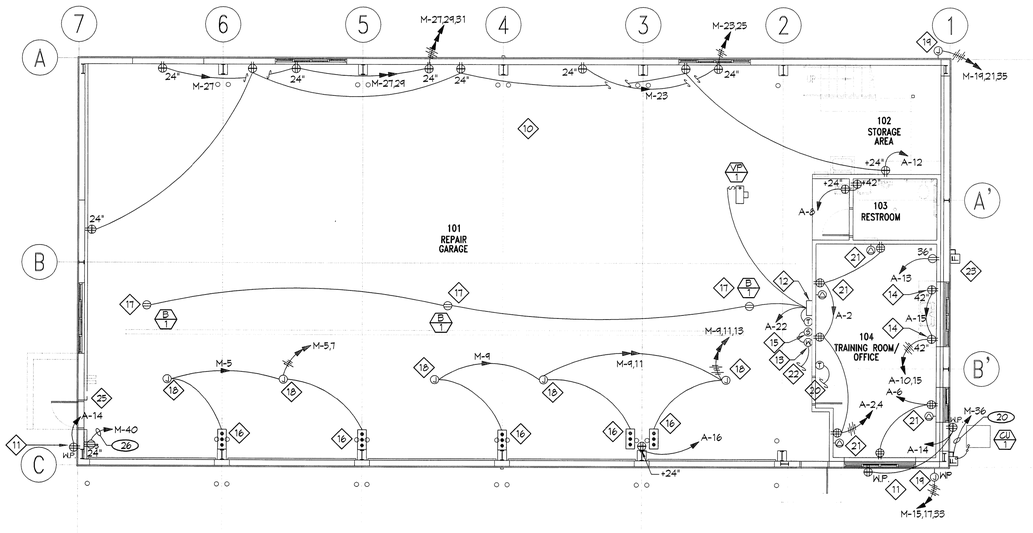
NORTH



MEZZANINE LIGHTING PLAN

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

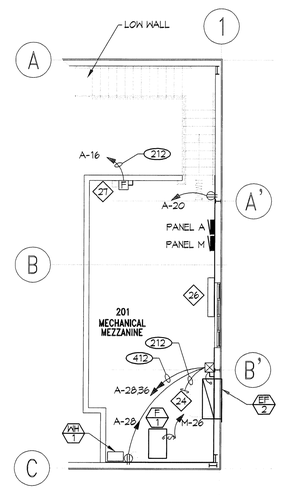
NORTH



MAINTENANCE BUILDING PLAN

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

NORTH



MEZZANINE FLOOR PLAN

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

NORTH

KEY NOTES

1. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LUMINAIRES.
2. TO LIGHT FIXTURE BELOW. SEE ROOM 104 ON MAIN LEVEL LIGHTING PLAN.
3. TO LIGHT FIXTURE ABOVE. SEE ROOM 201 ON MEZZANINE LIGHTING PLAN.
4. TO THREE WAY SWITCH AT BOTTOM OF STAIRS. SEE MAIN LEVEL LIGHTING PLAN.
5. USE ONE WATTSTOPPER DATA LINE SWITCH WITH A BUTTON FOR EACH LETTER SHOWN. SEE DETAIL 1/E002.
6. CONNECT BOTH BALLASTS TOGETHER TO THE SWITCH LEG IN THESE LUMINAIRES ABOVE THE MEZZANINE.
7. USE WATTS STOPPER DATALINE SWITCHES TO CONTROL TYPE L7 LIGHTS AND TO OVER-RIDE PHOTOCELL FOR TYPE L6 LIGHTS. SEE DETAIL 1/E002.
8. EC SHALL PROVIDE A LIGHTING CONTROL PANEL (WATT STOPPER LI 24S-12Q1GAC-115) WITH A ASTRONOMICAL NETWORK CLOCK AND PHOTO CELL. SEE DETAIL 1/E002.
9. INSTALL CIRCUITS FOR EXTERIOR LUMINAIRES THROUGH THE LIGHTING PANEL ON THE MEZZANINE LEVEL FOR CONTROL. SEE DETAIL 2/E002.
10. ALL RECEPTACLES IN THE REPAIR GARAGE AND IN THE STORAGE AREA SHALL BE INSTALLED AT 24" AFF OR GREATER AND BE GFCI RECEPTACLES.
11. OUTLETS FOR BLOCK HEATERS. INSTALL AT 36" A.F.F.
12. RADIANT HEATING CONTROL PANEL FURNISHED BY MC. PROVIDE CONDUIT AND CONDUCTORS FROM THE PANEL TO THE B-1 UNITS AND TO VP-1. COORDINATE WITH MC AND PROVIDE ALL REQUIRED CONDUIT, CONDUCTORS AND CONNECTION FOR THE RADIANT HEATING SYSTEM.
13. MANUAL OVER-RIDE SWITCH FOR CONTROL OF EF-2. WIRE SO THAT IN AUTO THE CARBON MONOXIDE SENSOR STARTS AND STOPS EF-2 AND IN ON THE SWITCH STARTS AND STOPS EF-2.
14. INSTALL RECEPTACLE HORIZONTALLY IN BACK SPLASH.
15. CARBON MONOXIDE SENSOR PROVIDED BY MC. PROVIDE CONNECTION FROM IT TO THE MANUAL OVER-RIDE SWITCH AND EF-2 STARTER. COORDINATE WITH MC.
16. DOOR CONTROLS PROVIDED BY OVERHEAD DOOR SUPPLIER INSTALLED AND CONNECTED BY EC. CONFIRM AND PROVIDE ALL MATERIALS AND LABOR REQUIRED TO POWER AND OPERATE THE OVERHEAD DOORS.
17. RECEPTACLE INSTALL ON STRUCTURE FOR POWER TO THE B-1 UNIT. COORDINATE WITH MC AND PROVIDE POWER TO THE B-1 UNITS AND INTER-CONNECTION WITH THE RADIANT HEATING CONTROL PANEL.
18. JUNCTION BOX FOR POWER TO OVERHEAD DOOR OPERATOR. CONFIRM LOCATION AND PROVIDE AS REQUIRED BY THE OVERHEAD DOOR SUPPLIER.
19. PROVIDE WEATHER PROOF JUNCTION BOX FOR POWER TO RAIN GUTTER DE-ICING CABLE. INSTALL UNDER EAVE. PROVIDE DE-ICING CABLE (RAYCHEM GM-1X 52'T CABLE) IN GUTTER AND DOWNSPOUTS. INSTALL THE CABLE TO THE BOTTOM OF EACH DOWNSPOUT. FOR DOWNSPOUTS IN THE CENTER OF THE RUN, LOOP CABLE TO THE BOTTOM OF THE OF THE DOWNSPOUT AND CONTINUE BACK UP TO THE GUTTER. FOR ROOF DE-ICING, INSTALL CABLE IN A ZIG-ZAG PATTERN GOING UP FROM THE ROOF EDGE 18" AND SPACING EACH PEAK 24" APART.
20. THERMOSTAT FOR CONTROL OF F-1. PROVIDE 3/4" CONDUIT WITH PULL CORD FROM THERMOSTAT TO F-1. CABLE/CONDUCTORS PROVIDED BY MC. COORDINATE WITH MC.
21. PROVIDE 3/4" CONDUIT WITH CAT5E CABLE FROM EACH MULTI-MEDIA OUTLET TO PHONE/DATA BACK-BOARD. CONFIRM REQUIREMENTS WITH OWNER AND PROVIDE A COMPLETE PHONE/DATA SYSTEM.
22. PROVIDE CONNECTION TO EF-2 COMBINATION STARTER FOR REMOTE CONTROL FROM CARBON MONOXIDE SENSOR AND MANUAL OVER-RIDE SWITCH. CONFIRM REQUIREMENTS WITH MC AND PROVIDE REQUIRED COMPONENTS FOR A FULLY FUNCTIONAL EXHAUST/VENTILATION SYSTEM.
23. SERVICE DISCONNECT. SEE POWER RISER SHEET E002.
24. INTER-CONNECT THE EF-2 STARTER WITH THE LOUVER ACTUATOR THROUGH A NORMALLY OPEN CONTACT ON THE STARTER SO THE DAMPER OPENS WHEN EF-2 OPERATES.
25. LOUVER ACTUATOR. EC SHALL INTER-CONNECT WITH EF-2 STARTER FOR SIMULTANEOUS OPERATION OF BOTH. SEE KEY NOTE 24.
26. PHONE/DATA BOARD. EC SHALL PROVIDE A 3/4"X24"X24" PLYWOOD BACKBOARD INSTALLED WITH THE TOP AT 5'-6" AFF FOR THE PHONE/DATA BOARD. INSTALL ALL CONDUITS FROM THE MULTI-MEDIA OUTLETS TO THIS BOARD.
27. FUSED DISCONNECT FOR PRESSURE PUMP. SEE DETAIL 9/P601.
28. WIRE 12V AUXILIARY SOCKET, CONTAINED INSIDE TYPE L8 FIXTURE, TO BATTERY PACK, L11, SUCH THAT 12V SOCKET IS ENERGIZED UPON POWER OUTAGE.
29. SEE ARCH PLANS FOR LOCATIONS OF ALL LIGHTING FIXTURES.

CLIENT

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LIGHTING AND POWER PLANS

E201