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	1997
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code	2006	Guidelines	2006

A. Occupancy and Group: S-2 _____ _____

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

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

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

C. Type of Construction (circle one):

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

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

North: _____ South: _____ East: _____ West: _____

E. Mixed Occupancies: NO Nonseparated Uses: NO

F: Sprinklers: NONE

Required: _____ Provided: _____ Type of Sprinkler System: _____

G: Number of Stories: 1 Building Height: 12 FT.

H: Actual Area per Floor (square feet): B = 858 sf

I: Tabular Area: 13,500 sf

J: Area Modifications:

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

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:

1) One Story: _____
2) Two Story: A_a (2)_____
3) Three Story: A_a (3)_____

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

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

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Existing Exterior Bearing Walls			Floors – Ceiling Floors	NONE	
Interior Bearing Walls			Roofs – Ceiling Roofs	NONE	
Exterior Non-Bearing Walls	NONE		Exterior Doors and Windows	NONE	
Structural Frame	NONE		Shaft Enclosures	NONE	
Partitions – Permanent			Existing Fire Wall	NONE	
Fire Barriers	NONE		Fire Partitions	NONE	
Exit Hall Walls & Ceiling			Smoke Partitions	NONE	

L. Design Occupant Load: 2

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

M. Minimum Number of Required Plumbing Facilities: NONE

a) Water Closets – Required (m) _____ (f) _____ Provided (m) _____ (f) _____
b) Lavatories – Required (m) _____ (f) _____ Provided (m) _____ (f) _____
c) Bath Tubs or Showers: _____
d) Drinking Fountains: _____ Service Sinks: _____

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers 1Parts through Σ – ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
   a) High Rise Requirements.
   b) Atriums.
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.
3) NOTE: DEFFERED ITEMS REQUIRE ARCHITECT & OWNER APPROVAL & MUST MEET COMMERCIAL GRADE FOR STUCCO SYSTEM & DEFERRED FOR ROOF TRUSSES.

WOOD FRAMED WALLS
CONCRETE
GYPSUM BOARD
RIGID INSULATION
WOOD DIMENSIONAL LUMBER
WOOD
WINDOW NUMBERS
DOOR NUMBERS
DETAIL NUMBER / SHEET NUMBER — DETAIL
SECTION LETTER / SHEET NUMBER — SECTION OR ELEVATION

LEGEND & SYMBOLS

ACOUST.	ACOUSTIC	SPEC.	SPECIFICATION
ADJ.	ADJUSTABLE	STL.	STEEL
ALUM.	ALUMINUM	T.JI.	TRUSS JOIST
CER.TILE	CERAMIC TILE	REQ.	REQUIRED
CONC.	CONCRETE	W.C.	WATER CLOSET
CONT.	CONTINUOUS	U.N.O.	UNLESS NOTED OTHERWISE
DET.	DETAIL		
ELEV.	ELEVATION		
EXIST/EX.	EXISTING		
EXP.	EXPANSION		
FLR.	FLOOR	P/L	PROPERTY LINE
F.D.	FLOOR DRAIN	FGE.	FINISH GRADE ELEVATION
GALV.	GALVANIZED	TBC.	TOP OF CURB ELEVATION
GA.	GUAGE	TCE.	TOP OF CONCRETE ELEVATION
GYP. BD.	GYPSUM BOARD	FFE.	FINISH FLOOR ELEVATION
INSUL.	INSULATION	—G—	GAS LINE
MAX.	MAXIMUM	—SS—	SANITARY SEWER LINE
MM	MINIMUM	—W—	WATER LINE
MTL.	METAL	—T—	TELEPHONE LINE
N. I. C.	NOT IN CONTRACT	—P—	POWER LINE
OPN'G	OPENING		
REINF.	REINFORCED		
SHT.	SHEET		
O.C.	ON CENTER		

DRAWING INDEX :ORANGE STREET

NUMBER	TITLE
AS-101	TITLE SHEET, SITE PLAN, INDEX, SCHEDULE AND SYMBOLS
AE-101	FLOOR PLAN, ELEVATIONS, AND DETAILS
AE-102	FOOTING FOUNDATION & FRAMING PLANS & DETAILS
E-101	ELECTRICAL SITE, PLAN & PANEL SCHEDULE

STORAGE BUILDING FOR:

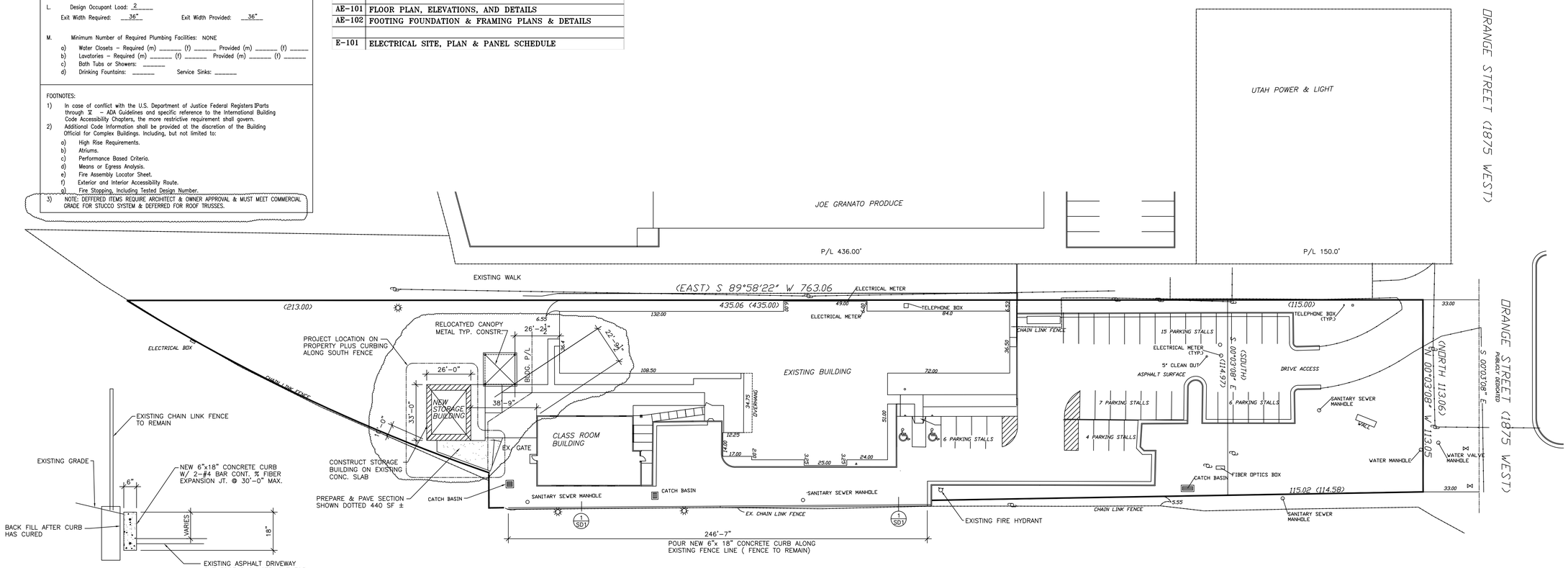
UTAH STATE CORRECTIONS ORANGE STREET FACILITIES

80 SOUTH ORANGE STREET SALT LAKE CITY, UTAH

DFCM PROJECT NO. 08216120

VINCENT DESIGN GROUP INC.
401 EAST 1700 SOUTH
SALT LAKE CITY, UTAH
(801) 484-2046

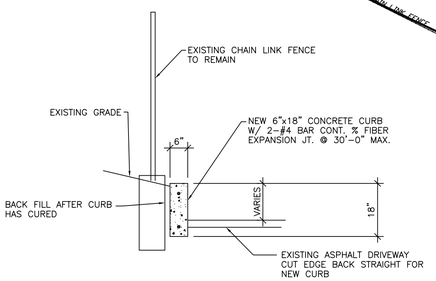
architects/planners



SITE PLAN

SCALE: 1"=30'-0"

NORTH



DETAIL 1/SD1

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

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

NEW STORAGE BUILDING TO:
UTAH STATE CORRECTIONS
ORANGE STREET FACILITIES
80 SOUTH ORANGE STREET
SALT LAKE CITY, UTAH

SITE PLAN, TITLE SHEET & DETAILS

ARCH. PROJECT NO:
DATE: 11/17/2008
DRAWN BY: JOHN
CHECKED BY:
DESIGNED BY:

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DATE	REVISION

SHEET TITLE

AS-101

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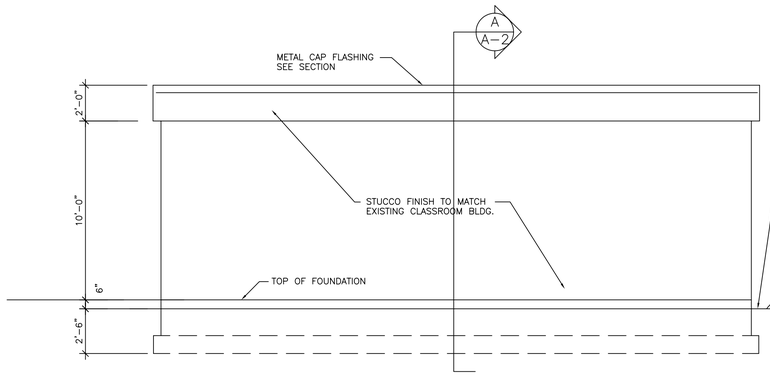
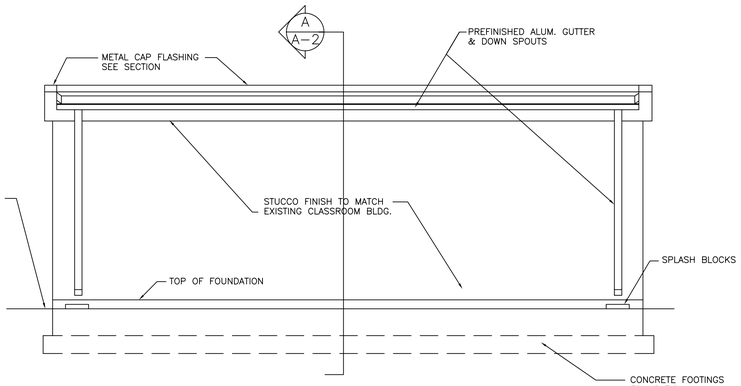


EAST ELEVATION

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



WEST ELEVATION

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

FINISH SCHEDULE																
ROOM NO.	ROOM NAME	FLOOR: CONCRETE	FLOOR: TILE	FLOOR: WOOD	FLOOR: CARPET	BASE: WOOD	BASE: RUBBER	BASE: TILE	BASE: CARPET	WALLS: PAINT	WALLS: WALL COVERING	WALLS: TILE	WALLS: WAINSCOT	CEILING: PAINT OF G.B.	CEILING: ACOUSTIC TILE	CEILING HEIGHT	REMARKS
1	STORAGE #1	O				O				O	O			O		VARIES	
2	STORAGE #2					O				O				O		VARIES	
3	STORAGE #3					O				O				O		VARIES	

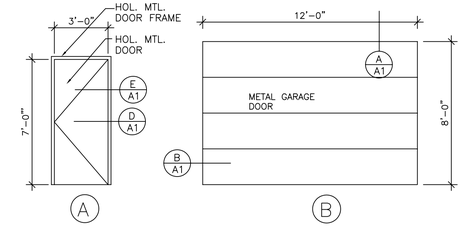
NOTE: PAINT ALL NEW GYP. BRD. WALLS ON BOTH SIDES & CEILINGS.

DOOR SCHEDULE									
MARK	DOOR SIZE	ASSEMBLY: SINGLE	ASSEMBLY: PAIR	DETAIL: HEAD	DETAIL: JAMB	MATERIAL: DOOR	MATERIAL: FRAME	DOOR TYPE	HDWR. GROUP	REMARKS
1	3'-0" x7'-0" x 1 3/4"	O		D/A1	D/A1	HMTL	HMTL	A	H-1	EXTERIOR DOOR
2	12'-0"x8'-0"	O		A/A1	B/A1	MTL	MTL	B		GARAGE DR., MOTORIZED
3	3'-0" x7'-0" x 1 3/4"	O		E/A1	E/A1	HMTL	HMTL	A	H-2.	
4	3'-0" x7'-0" x 1 3/4"	O		E/A1	E/A1	HMTL	HMTL	A	H-2	

HARDWARE SCHEDULE:

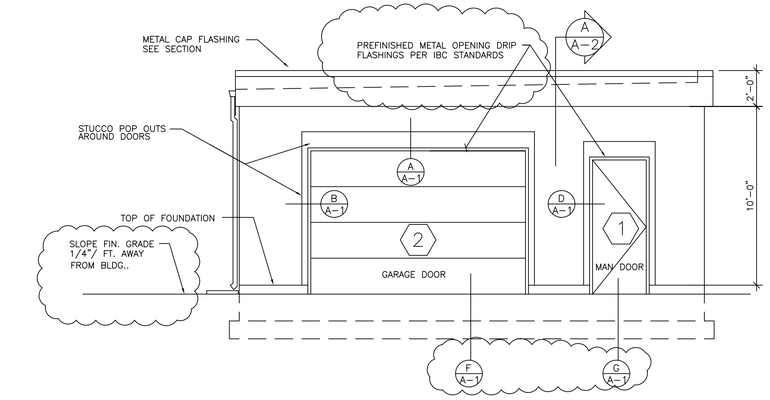
H-1 2 PR. BUTTS – STANLEY – US26D, LEVER TYPE LOCK SET, ENTRY FUNCTION (HEAVY DUTY), WEATHER STRIP THRESHOLD, CLOSER, BOTTOM SWEEP

H-2 1 1/2 PR. BUTTS – STANLEY – US26D, LEVER TYPE LOCK SET, OFFICE FUNCTION (HEAVY DUTY), 3 SILENCERS



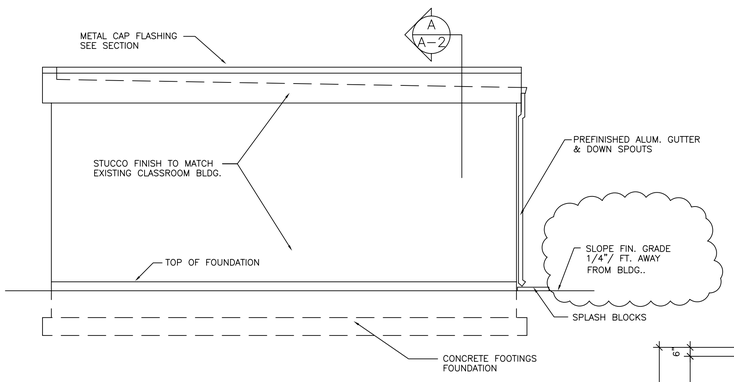
DOOR TYPES

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



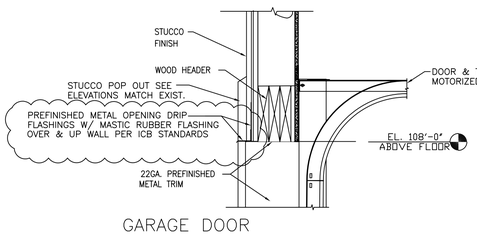
SOUTH ELEVATION

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



NORTH ELEVATION

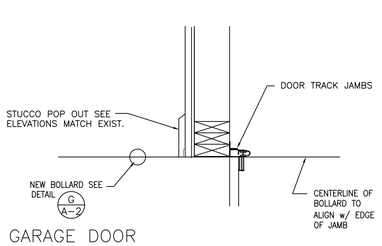
SCALE: 1/4" = 1'-0"



DOOR HEAD DETAIL

A / A-1

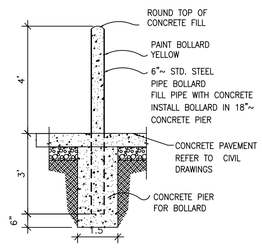
SCALE: NTS



DOOR JAMB DETAIL

B / A-1

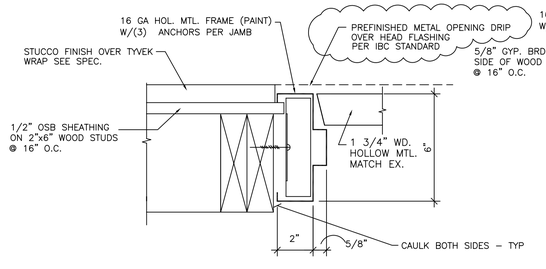
SCALE: NTS



BOLLARD DETAIL

C / A-1

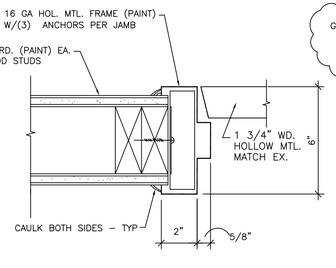
SCALE: 3/8"=1'-0"



DETAIL

D / A-1

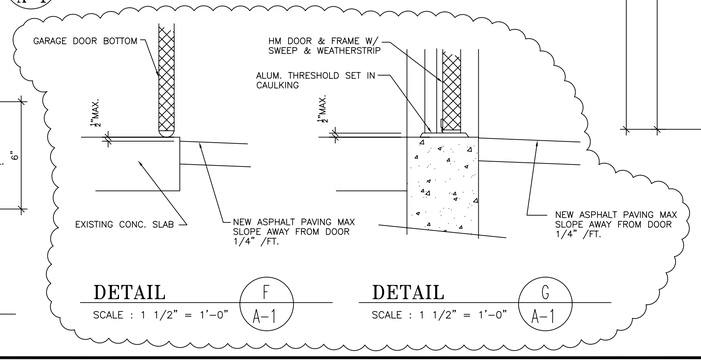
SCALE : 3" = 1'-0"



DETAIL

E / A-1

SCALE : 3" = 1'-0"



DETAIL

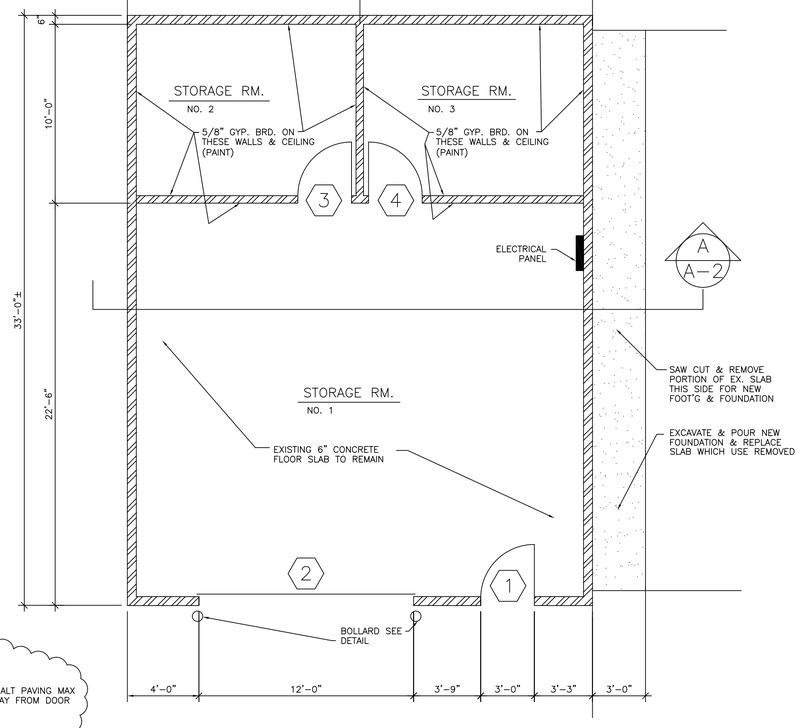
F / A-1

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

DETAIL

G / A-1

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



FLOOR PLAN

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

NORTH

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VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

NEW STORAGE BUILDING TO:

UTAH STATE CORRECTIONS
ORANGE STREET FACILITIES

80 SOUTH ORANGE STREET
SALT LAKE CITY, UTAH

FLOOR PLAN, ELEVATIONS & SCHEDULES

ARCH. PROJECT NO:
DATE:11/17/2008
DRAWN BY:JOHN
CHECKED BY:
DESIGNED BY:

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DATE	REVISION

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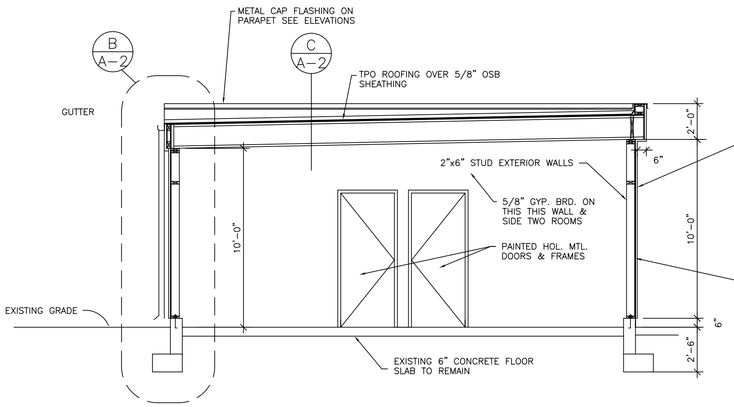
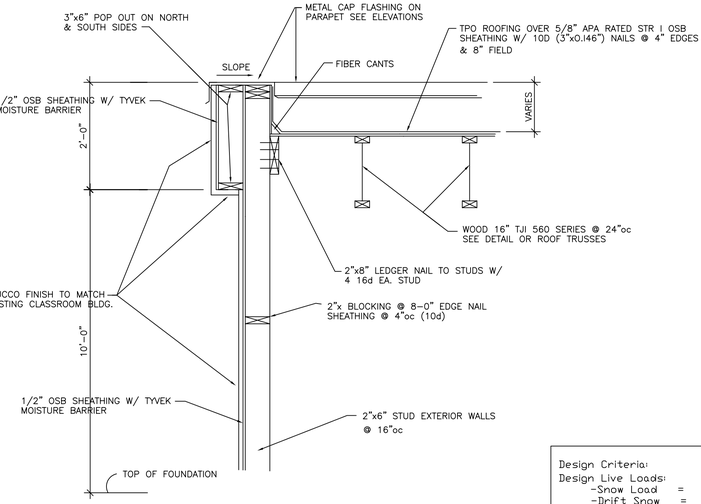


SECTION A
SCALE: 1/4" = 1'-0"

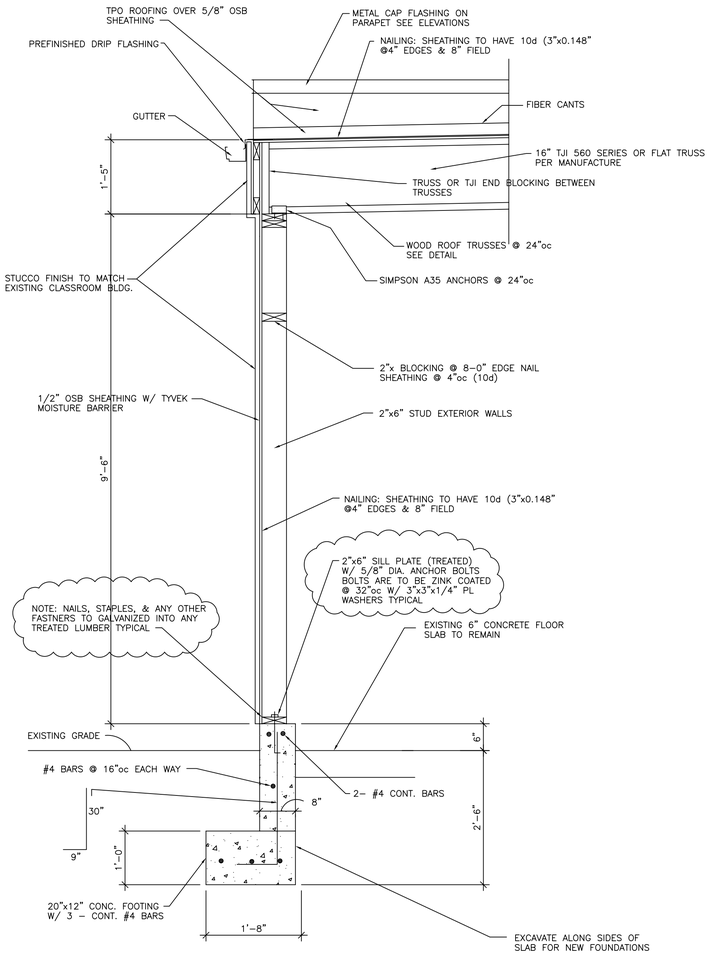


DETAIL C
SCALE: 3/4" = 1'-0"

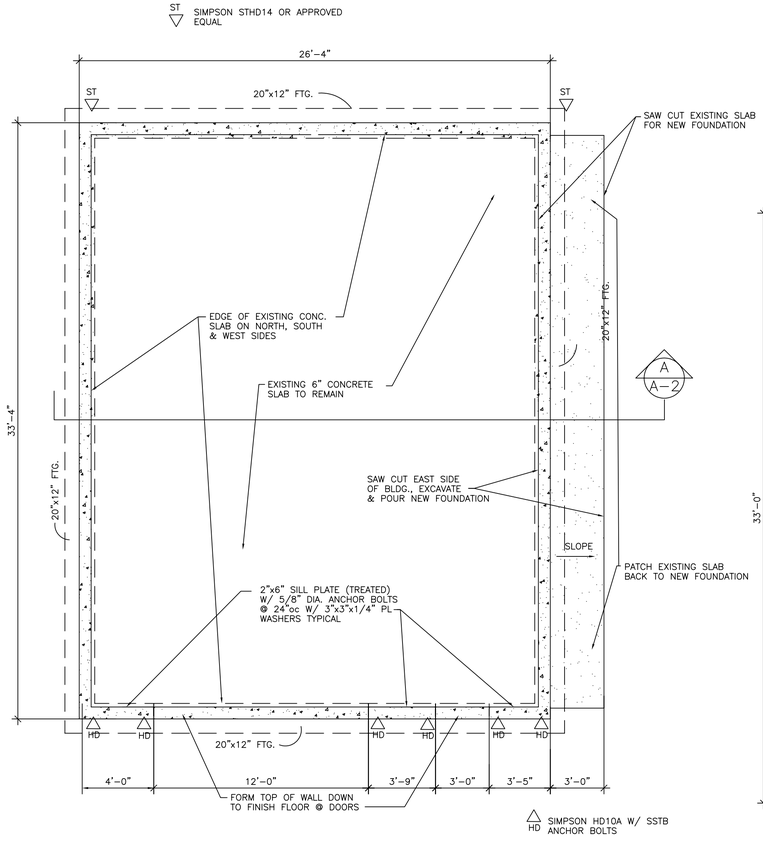
Design Criteria:
Design Live Loads:
- -Snow Load = 30 psf
- -Drift Snow = 45 psf
- -Dead Load = 20 psf UNO
- -Wind Load = 90 MPH 3 Sec. gust, exp. C.
- -Soil Pressure = 1500 psf (Assumed)

Basis for seismic design:
- -2006 International Building Code
- -I = 1.0
- -Base shear coefficient R =6.5, Ss = 1.68 Fa = 1.0, S1 = 1.02, Fv = 1.5, Site Class D

Lateral force resisting system:
Plywood diaphragm with plywood shear walls.

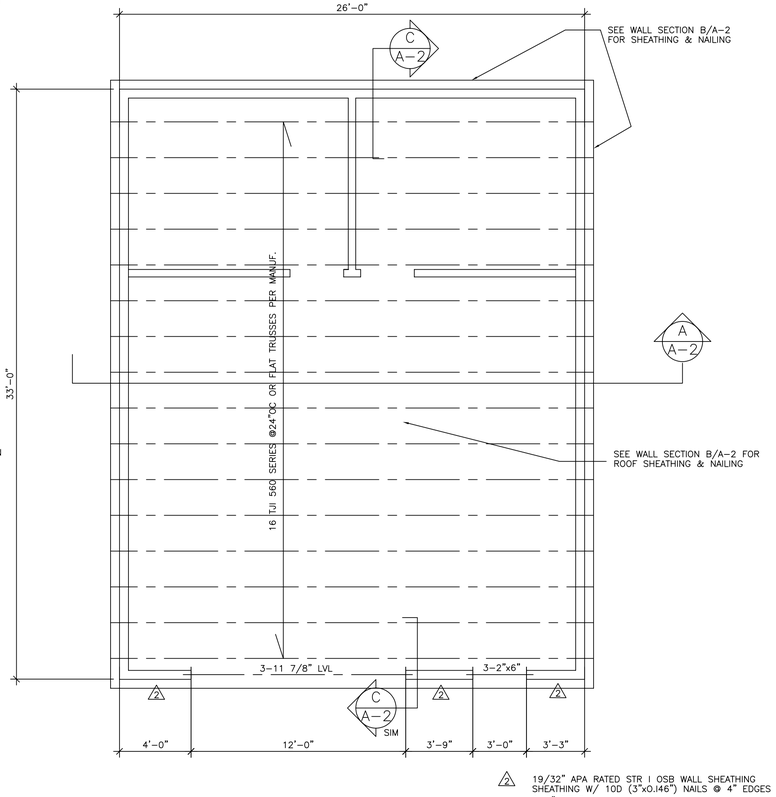


SECTION B
SCALE: 3/4" = 1'-0"



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

NORTH



2 19/32" APA RATED STR I OSB WALL SHEATHING SHEATHING W/ 10D (3"x0.146") NAILS @ 4" EDGES & 8" FIELD

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

NORTH

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

NEW STORAGE BUILDING TO:
UTAH STATE CORRECTIONS
ORANGE STREET FACILITIES
80 SOUTH ORANGE STREET
SALT LAKE CITY, UTAH

FRAMING PLAN, SECTIONS & DETAILS

ARCH. PROJECT NO:
DATE:11/17/2008
DRAWN BY:JOHN
CHECKED BY:
DESIGNED BY:

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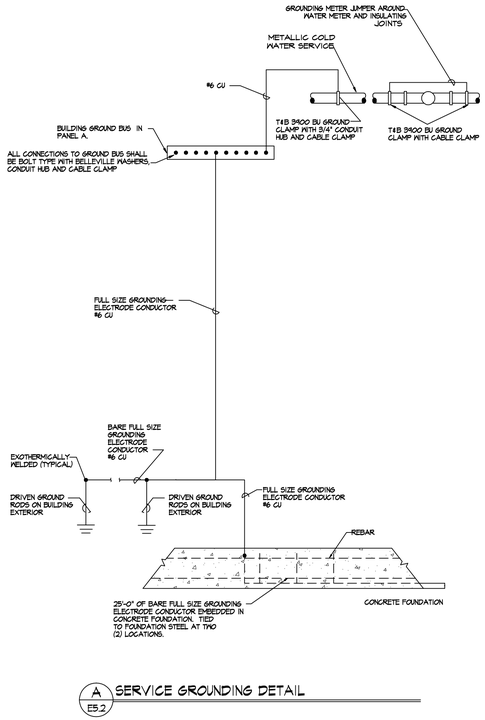
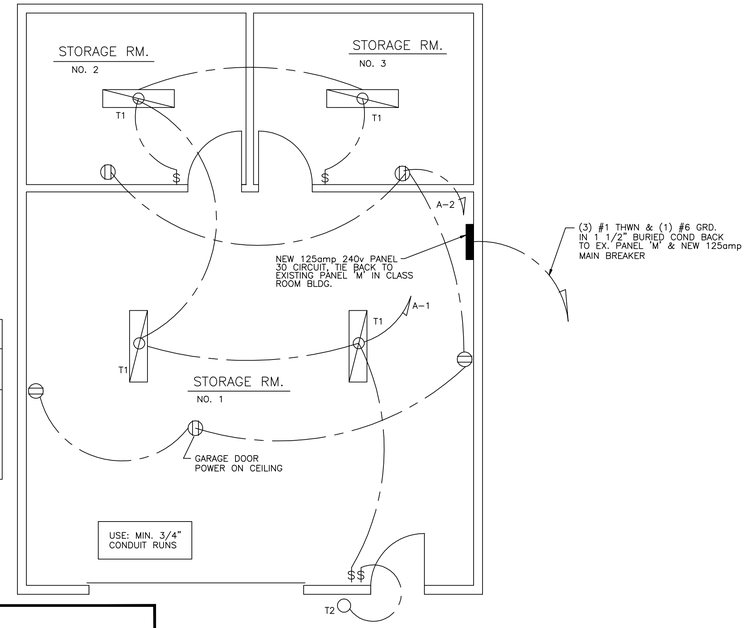


A E5.2 SERVICE GROUNDING DETAIL

ELECTRICAL PLAN

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

NORTH



LIGHT FIXTURES

T1	LITHONIA SURFACE MOUNT 2 LAMP T-8 STRIP LIGHT 120v
T2	HALO M200-640-123P 100W HPS, 120v

PANEL SCHEDULE

PANEL: A
VOLTAGE: 208 / 120 PHASE: 1
MOUNTING: SURFACE WIRE: 3
ENCLOSURE: NEMA 1
REMARKS:

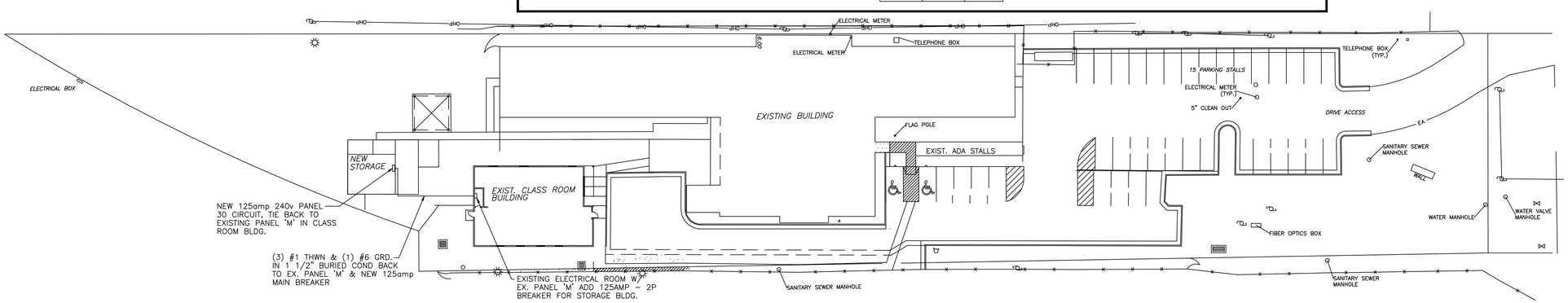
BUS AMPS: 125
MAIN OVERCURRENT DEVICE: BREAKER
MAIN OVERCURRANT AMPS: 125
MINIMUM EQUIPMENT RATING: 10,000 AMPS (RMS-SYM)

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

BREAKER NO.	BREAKER AMPS	BREAKER POLE	CIRCUIT NAME	FEEDER C	FEEDER WIRE	FEEDER GRD	CKT. LOAD USE	CKT. LOAD WATTS	LOAD/PHASE(VA) φA	LOAD/PHASE(VA) φB	CKT. LOAD WATTS	CKT. LOAD USE	FEEDER GRD	FEEDER WIRE	FEEDER C	CIRCUIT NAME	BREAKER POLE	BREAKER AMPS	BREAKER NO.
1	20	1	LIGHTS		#12	#12	L	1,000	2,000		1,000	R	#12	#12		RECPTS	1	20	2
3	20	1	SPARE													SPARE	1	20	4
5	20	1	SPARE													SPARE	1	20	6
7	20	1	SPARE													SPARE	1	20	8
9	20	1	SPARE													SPARE	1	20	10
11	20	1	SPARE													SPARE	1	20	12
13		1	SPACE													SPACE			14
15		1	SPACE													SPACE			16
17		1	SPACE													SPACE			18
19		1	SPACE													SPACE			20
21		1	SPACE													SPACE			22
23		1	SPACE													SPACE			24
25		1	SPACE													SPACE			26
27		1	SPACE													SPACE			28
29		1	SPACE													SPACE			30
31		1	SPACE													SPACE			32
33		1	SPACE													SPACE			34
35		1	SPACE													SPACE			36
37		1	SPACE													SPACE			38
39		1	SPACE													SPACE			40
41		1	SPACE													SPACE			42

	φA	φB	DEMAND
LIGHTING LOAD (VA)	1,000	0	1,000
LIGHTING CONTINUOUS LOAD (VA)			250
RECEPTACLE LOAD PER NEC 220.13(VA)	1,000	0	1,000
EQUIPMENT LOAD (VA)	0	0	0
25% LARGEST MOTOR			0
KITCHEN EQUIPMENT LOAD (VA)	0	0	0
0 UNITS @ 100% (PER NEC TABLE 220.56)			
TOTAL LOAD (VA)	2,000	0	2,250
TOTAL LOAD (AMPS):	17	0	11

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



ELECTRICAL SITE PLAN

SCALE: 30' = 1'-0"

NORTH

PVE Inc. Consulting Mechanical Electrical Engineers
90 South 400 West, Suite 340
Salt Lake City UT, 84101
Phone: (801) 359-3158
Fax: (801) 521-4114

VDG VINCENT DESIGN GROUP, INC.
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REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. LEVORSEN
STATE OF UTAH

NEW STORAGE BUILDING TO:
UTAH STATE CORRECTIONS ORANGE STREET FACILITIES
80 SOUTH ORANGE STREET
SALT LAKE CITY, UTAH

ELECTRICAL SITE PLAN

ARCH. PROJECT NO: 06-73
DATE: 10/12/2007
DRAWN BY: JSI
CHECKED BY: DPL
DESIGNED BY: DPL

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DATE	REVISION
-	-

SHEET TITLE
E-101
ELECTRICAL -