



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

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

DFCM PROJECT No. 06304790 / CONTRACT No. 077170

DESIGN DEVELOPMENT FOR: UTAH VALLEY STATE COLLEGE



MULTI-PURPOSE BUILDING 940 WEST 800 SOUTH, OREM UTAH 84058

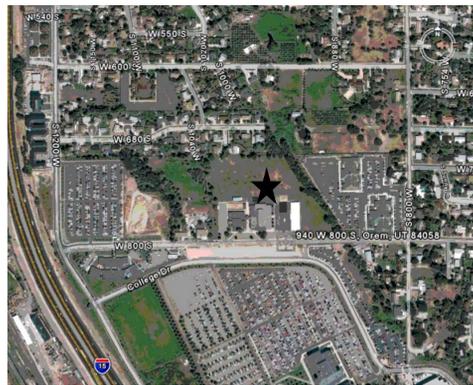


sandstrom | associates ARCHITECTURE, P.C.

845 South 220 East, Orem, UT 84058 phone 801. 229-0088 801. 229-0089 Fax

09/14/07

VICINITY MAP



CONSULTANTS

CIVIL

STANTEC 3995 SOUTH 700 EAST SUITE 300 SALT LAKE CITY, UTAH 84107 PHONE: 801.261.0090 FAX: 801.266.1671

STRUCTURAL

L.R. NELSON CONSULTING ENGINEERS, LLC 51 WEST 9000 SOUTH SANDY, UTAH 84070 PHONE: 801.565.6580 FAX: 801.565.9340

MECHANICAL

WHW ENGINEERING INC. 1354 EAST 3300 SOUTH SUITE 200 SALT LAKE CITY, UTAH 84106 PHONE: 801.466-4021 FAX: 801.466-8536

ELECTRICAL

DONALD C. THOMAS ASSOCIATES 5263 SOUTH 300 WEST SUITE 100 MURRAY, UTAH 84107 PHONE: 801.269.9881 FAX: 801.269.9882

SCHEDULE OF DRAWINGS

CVR COVER SHEET, and SHEET INDEX.

CIVIL C-1 SITE, GRADING, UTILITY PLAN C-2 UTILITY ROUTING PLAN D-1 CIVIL DETAILS

LANDSCAPE

L-1 LANDSCAPE AND IRRIGATION PLAN L-2 LANDSCAPE AND IRRIGATION DETAILS

ARCHITECTURAL

A1.1 MAIN FLOOR PLAN A1.2 CLERESTORY LEVEL PLAN & WALL TYPES A1.3 FURNISHING PLAN

A2.1 REFLECTED CEILING PLAN A2.3 ROOF PLAN A2.4 ROOF DETAILS

A3.1 EXTERIOR ELEVATIONS A3.2 EXTERIOR ELEVATIONS

A4.1 BUILDING SECTIONS

AS.1 DOOR TYPES & SCHEDULE AS.2 DOOR & WINDOW DETAILS

A6.1 INTERIOR ELEVATIONS A6.2 INTERIOR ELEVATIONS

STRUCTURAL

S1.1 STRUCTURAL GENERAL NOTES S2.1 FOUNDATION PLAN S3.1 LOW ROOF FRAMING PLAN S3.2 HIGH ROOF FRAMING PLAN S3.3 ROOF SNOW DRIFT & DIAPHRAM PLAN S4.1 STRUCTURAL FOUNDATION DETAILS S5.1 STRUCTURAL FRAMING DETAILS S5.2 STRUCTURAL FRAMING DETAILS

PLUMBING

P0.1 PLUMBING GENERAL NOTES AND LEGEND P1.1 MAIN FLOOR WATER PLUMBING PLAN P1.2 MAIN FLOOR WASTE PLUMBING PLAN P1.3 PLUMBING ROOF PLAN P5.1 PLUMBING DETAILS P6.1 PLUMBING SCHEDULES

MECHANICAL

M0.1 MECHANICAL GENERAL NOTES AND LEGEND M1.1 MAIN FLOOR MECHANICAL PLAN M1.2 MECHANICAL ROOF PLAN M5.1 MECHANICAL SCHEDULES AND DETAILS\ M6.1 MECHANICAL SCHEDULES AND DETAILS

ELECTRICAL

E1.1 ELECTRICAL SITE PLAN E2.1 LIGHTING PLAN E3.1 POWER PLAN E4.1 POWER RISER DIAGRAM AND SCHEDULES

CODE ANALYSIS

APPLICABLE CODES

Table with columns for Code Name, Year, and Compliance Status. Includes International Building Code, National Electrical Code, etc.

A. Occupancy: E/A-3 Change in Use: Yes No X Mixed Occupancy: Yes No X Special Use and Occupancy (e.g. High Rise, Covered Mall): NA

B. Seismic Design Category: D Occupancy Category: III

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

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

E. Mixed Occupancies: E/A-3 Nonseparated Uses: NA

F. Sprinklers: Required: NO Provided: NO Type of Sprinkler System: NONE

G. Number of Stories: ONE Building Height: 24ft.

H. Actual Area per Floor (square feet): SINGLE STORY (7,098)

I. Tabular Area: 7,098

J. Area Modifications: a) A\_a = A\_t + [A\_t I\_f / 100] + [A\_t I\_s / 100] I\_r = 100 [F/P - 0.25] W/30

b) Sum of the Ratio Calculations for Mixed Occupancies:

Actual Area / Allowable Area <= 1

c) Total Allowable Area for:

- 1) One Story: ONE (1) 2) Two Story: A\_a(2) NA 3) Three Story: A\_a(3) NA

d) Unlimited Area Building: Yes No X Code Section: 503 e) Basic Allowable: 9,500 Max Allowable: 28,500 Actual SF: 7,098

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

Table with columns for Element, Hours, Assembly Listing, and Compliance Status. Includes Exterior Bearing Walls, Interior Bearing Walls, etc.

L. Design Occupant Load: 288

Exit Width Required: 69" Exit Width Provided: 216"

M. Minimum Number of Required Plumbing Facilities:

- a) Water Closets - Required (m) 3 (f) 5 Provided (m) 4 (f) 5 b) Lavatories - Required (m) 1 (f) 1 Provided (m) 3 (f) 3 c) Bath Tubs or Showers: 4 SHOWER d) Drinking Fountains: 1 Service Sinks: 1

FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern. 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to: a) High Rise Requirements. b) Atriums. c) Performance Based Criteria. d) Means or Egress Analysis. e) Fire Assembly Locator Sheet. f) Exterior and Interior Accessibility Route. g) Fire Stopping, Including Tested Design Number.



INSTALL 'LARGE' DRAINAGE SUMP (TYP.)  
SEE DETAIL ON SHEET D-1

INSTALL 6"Ø ROOF DRAIN LINE  
TO SUMP (TYP.), PVC SDR 35  
OR ADS N-12 @ S=2.0% MIN.

EXISTING TURF SOD AND SPRINKLER  
IRRIGATION AREA (TYP).  
REMOVE SOD, REPAIR DAMAGED OR  
DISTURBED SPRINKLER SYSTEM,  
REPLACE TOPSOIL, AND INSTALL NEW  
SOD IN DISTURBED AREAS.  
SEE LANDSCAPE PLANS FOR  
EXISTING SPRINKLER IRRIGATION  
SYSTEM RELOCATION AND NEW  
INSTALLATION.

INSTALL 5' SIDEWALK (TYP.)  
SEE DETAIL ON SHEET D-1

INSTALL 8' SIDEWALK

SEE LANDSCAPE AND IRRIGATION  
PLANS FOR AREAS BETWEEN  
BUILDING AND SIDEWALK (TYP).

INSTALL 8' SIDEWALK  
W/ INTEGRAL CURB  
SEE DETAIL SHEET D-1

INSTALL ADA COMPLIANT  
PEDESTRIAN RAMP,  
SEE DETAIL ON SHEET D-1.

EXISTING ASPHALT PAVEMENT.  
PROTECT IN PLACE (TYP).

INSTALL 1-1/2"Ø WATER METER BOX  
PER OREM CITY STDS.

INSTALL FIRE HYDRANT  
PER OREM CITY STDS.

INSTALL TRANSFORMER PAD.  
SEE ELECTRICAL PLANS  
FOR SERVICE ROUTING.

FF ELEV. = 4598.50  
= ARCH 100'-0"

GRADE TO PROVIDE  
DRAINAGE SWALE

SEE LANDSCAPE AND IRRIGATION  
PLANS FOR AREAS BETWEEN  
BUILDING AND SIDEWALK (TYP).

INSTALL 6' SIDEWALK

COORDINATE GRADING WORK WITH  
THE LANDSCAPE PLAN AND THE  
ARCHITECTURAL PLAN.

GRADE TO PROVIDE  
DRAINAGE SWALE

INSTALL 5' SIDEWALK (TYP.)  
SEE DETAIL ON SHEET D-1

INSTALL 56 LF OF 2"Ø  
WATER SERVICE LINE

INSTALL 'SMALL' DRAINAGE SUMP (TYP.)  
SEE DETAIL ON SHEET D-1

INSTALL 12 LF OF 2"Ø  
WATER SERVICE LINE.  
CONNECT TO WATER MAIN.

SEE SHEET C-2 FOR  
UTILITY CONTINUATION

INSTALL 6"Ø SEWER LATERAL  
195 LF @ S=1.0%  
INSTALL CLEANOUTS AT  
75' MAX. INTERVALS

**GENERAL SITE IMPROVEMENTS:**

1. SITE EARTHWORK AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
2. SURPLUS TOPSOIL SHALL BE STOCKPILED ON SITE AT AN OWNER DESIGNATED LOCATION. SURPLUS TOPSOIL MATERIAL SHALL REMAIN THE PROPERTY OF UVSC.
3. CONSTRUCT FOOTING AND FOUNDATIONS IN ACCORDANCE WITH THE ARCHITECTURAL PLANS AND DETAILS.
4. EXISTING TOPOGRAPHY AND SITE SURVEY IS TAKEN FROM RBG ENGINEERING SURVEY. PROJECT BENCHMARK IS THE WEST QUARTER CORNER OF SEC 22 (N 710128.075, E 1940393.892) ELEVATION 4637.10 (BASED ON RBG ENGINEERING SURVEY). NEW BUILDING FINISH FLOOR ELEVATION, STANTEC 4598.50 = ARCHITECT 100'-0".
5. SITE WORK SHALL BE IN ACCORDANCE WITH OREM CITY REGULATIONS AND REQUIREMENTS.
6. CONTRACT SLOPES TO ELEVATIONS AND GRADES SHOWN.
7. INSTALL AND MAINTAIN EROSION/SEDIMENT CONTROL SILT FENCING ALONG THE CONSTRUCTION DISTURBANCE LIMITS. COMPLY WITH THE PROJECT SWPPP.

**UTILITY NOTES:**

- GENERAL:**
1. SITE EARTHWORK, TRENCH BACKFILL, AND PAVEMENTS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL STUDY.
  - UTILITY TRENCHES SHALL BE IN ACCORDANCE WITH THE DETAILS ON SHEET C-3 AND THE PROJECT SPECIFICATIONS.
- STORM DRAINAGE:**
- GRAVEL SUMPS SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET C-3 AND THE PROJECT SPECIFICATIONS.
- WATER SYSTEM:**
- WATER SYSTEM IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE OREM CITY STANDARDS AND SPECIFICATIONS. METER BOXES SHALL BE IN ACCORDANCE WITH THE OREM CITY STANDARDS AND SPECIFICATIONS. FIRE HYDRANTS, VALVES, AND VALVE BOXES SHALL BE IN ACCORDANCE WITH THE OREM CITY STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE FIRE MARSHAL.
- SANITARY SEWER SYSTEM:**
- SANITARY SEWER SYSTEM IMPROVEMENTS SHALL BE IN ACCORDANCE WITH OREM CITY STANDARDS AND SPECIFICATIONS.
- ELECTRICAL:**
- CONTRACTOR SHALL COORDINATE WORK WITH OREM CITY POWER OR UVSC POWER AS APPLICABLE. TRANSFORMER PAD SHALL BE IN ACCORDANCE WITH THE DETAIL SHEET AND THE PROJECT SPECIFICATIONS.

**LEGEND:**

- FENCE LINE
- - - EXISTING CONTOUR
- FINISH GRADE CONTOUR
- ▨ PROPOSED SIDEWALK
- ▨ EXISTING ASPHALT LIMITS
- DRAINAGE FLOW
- SANITARY SWR MANHOLE
- SANITARY SWR CLEANOUT
- ⊕ GATE VALVE
- ⊕ FIRE HYDRANT
- ⊕ METER VAULT
- AREA DRAIN

**ABBREVIATIONS:**

- TOA = TOP OF ASPHALT
- TOW = TOP OF WALL
- TS = TOP OF SIDEWALK
- TBW = TOP BACK OF WALK
- EOA = EDGE OF ASPHALT
- TBC = TOP BACK OF CURB
- FG = FINISH GRADE
- EG = EXISTING GRADE

**sandstrom | associates**  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801.229-0888 801.229-0889 Fax  
www.sandstromarchitecture.com

**Stantec**

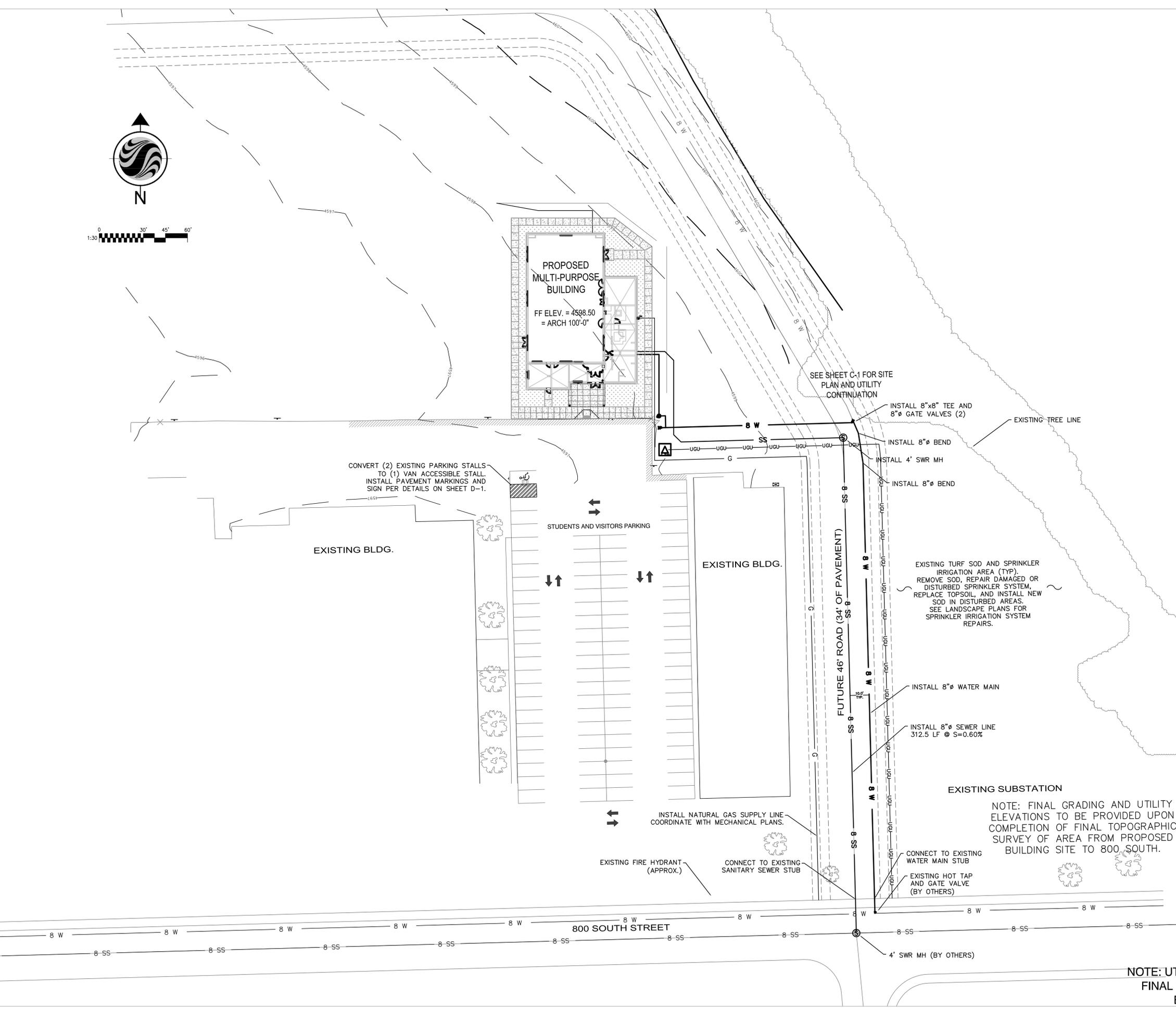
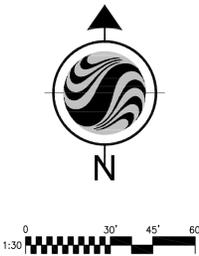
Stantec Consulting Inc.  
3995 S 700 E Ste. 300  
Salt Lake City, UT  
84107-2540  
Tel. 801.261.0090  
Fax. 801.266.1671  
www.stantec.com

**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
08.03.07	DFCM REVIEW

PROJECT NO.	186302200	SA-0627
DATE	JUNE 29, 2007	
DRAWN BY	RWM	
CHECKED BY	ROE SES	
SHEET DESCRIPTION	SITE, GRADING, AND UTILITY PLAN	
SHEET NO.	C-1	

NOTE: FINAL BLDG. ELEVATION AND SITE  
GRADING SUBJECT TO FINAL UTILITY  
DESIGN TO 800 SOUTH STREET



NOTE: UTILITY ROUTING PLAN SUBJECT TO FINAL SURVEY OF 800 SOUTH STREET EXISTING IMPROVEMENTS

**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
08.03.07	DFCM REVIEW

PROJECT NO.	186302200	SA-0627
DATE	JUNE 29, 2007	
DRAWN BY	RWM	
CHECKED BY	RQE SES	
SHEET DESCRIPTION	UTILITY ROUTING PLAN	

02 Oct 2007 - 10:18am - V:\52663\active\186302200\sheet\C-1.dwg



sandstrom | associates  
ARCHITECTURE, PC

845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com

SEAL



Stantec

DESIGN DEVELOPMENT FOR:  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**

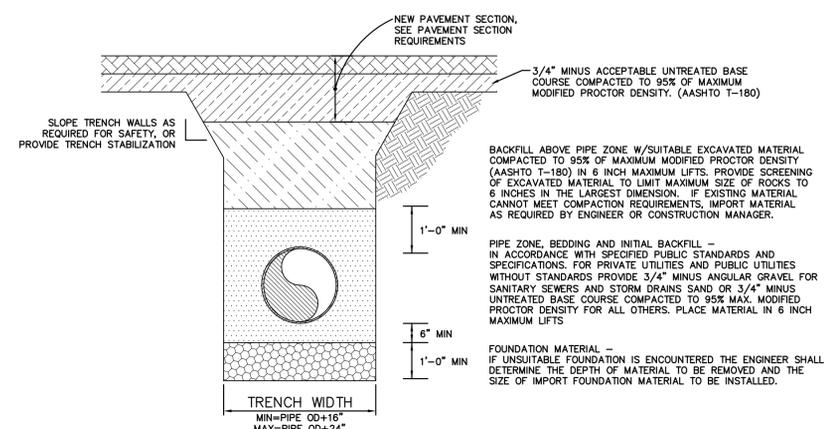
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
08.03.07	DFCM REVIEW
PROJECT NO.	SA-0619
DATE	JUNE 29, 2007
DRAWN BY	
CHECKED BY	SES
SHEET DESCRIPTION	DETAIL SHEET

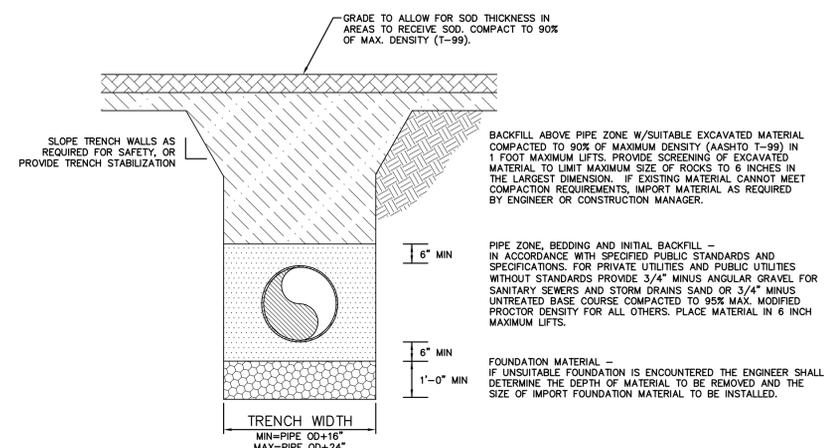
SHEET NO.

D-1

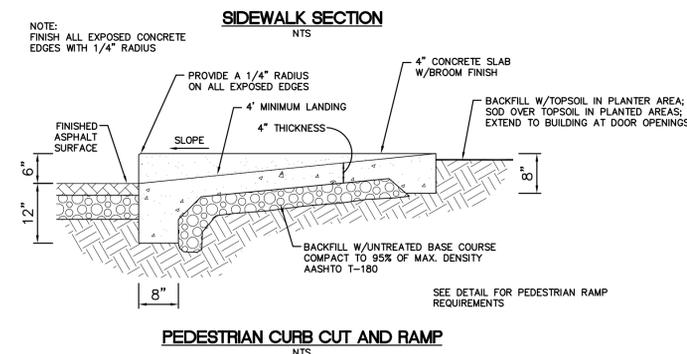
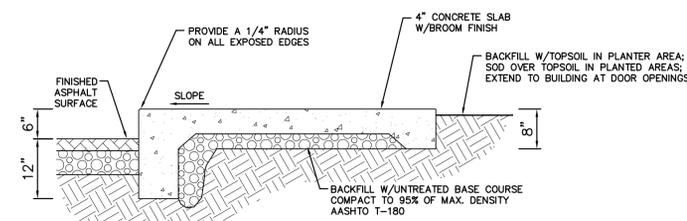
DETAIL SHEET  
NTS D-1



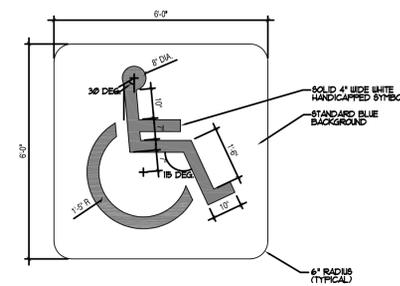
8 TYPICAL TRENCH SECTION  
WITHIN PAVEMENT PRISM  
OR UNDER STRUCTURE AND WALKS  
NTS



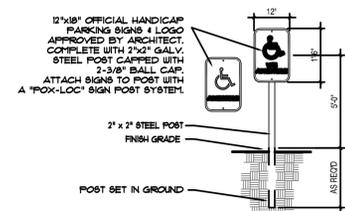
9 TYPICAL TRENCH SECTION  
OUTSIDE PAVEMENT PRISM  
AND WITHIN LANDSCAPED AREAS  
NTS



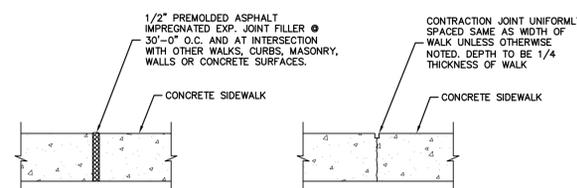
10 INTEGRAL WALK AND CURB  
NTS



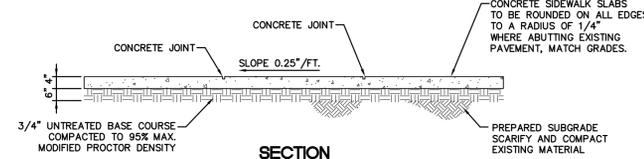
4 A.D.A. PAVEMENT MARKING - DETAIL  
NTS



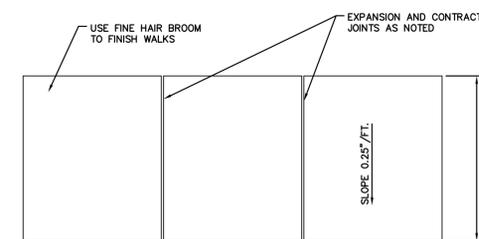
5 A.D.A. PARKING SIGN - DETAIL  
NTS



CONCRETE JOINTS  
NTS

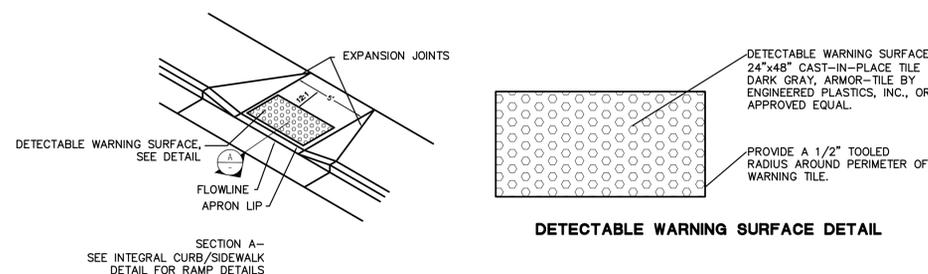


SECTION  
NTS



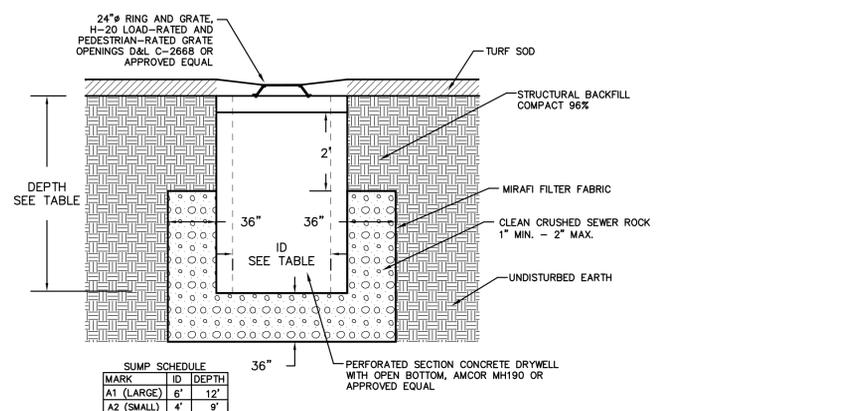
PLAN  
NTS

7 STANDARD WALKWAY  
NTS

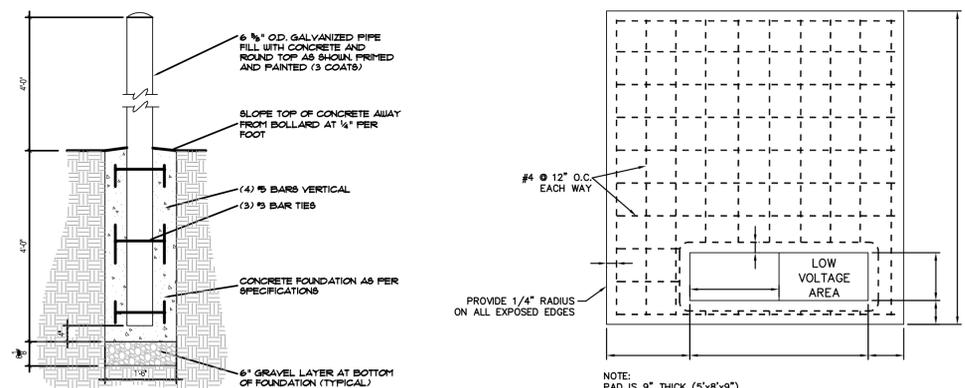


DETECTABLE WARNING SURFACE DETAIL

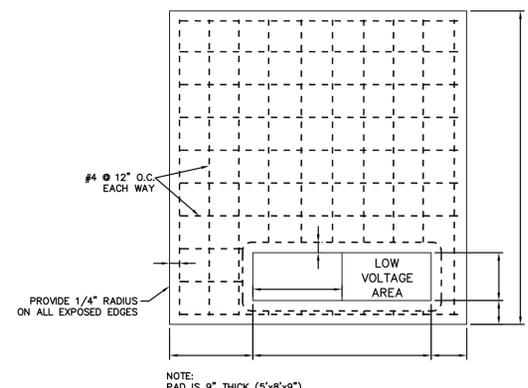
1 PEDESTRIAN RAMP - ADA COMPLIANT - DETAIL  
NTS



2 GRAVEL SUMP DETAIL  
NTS

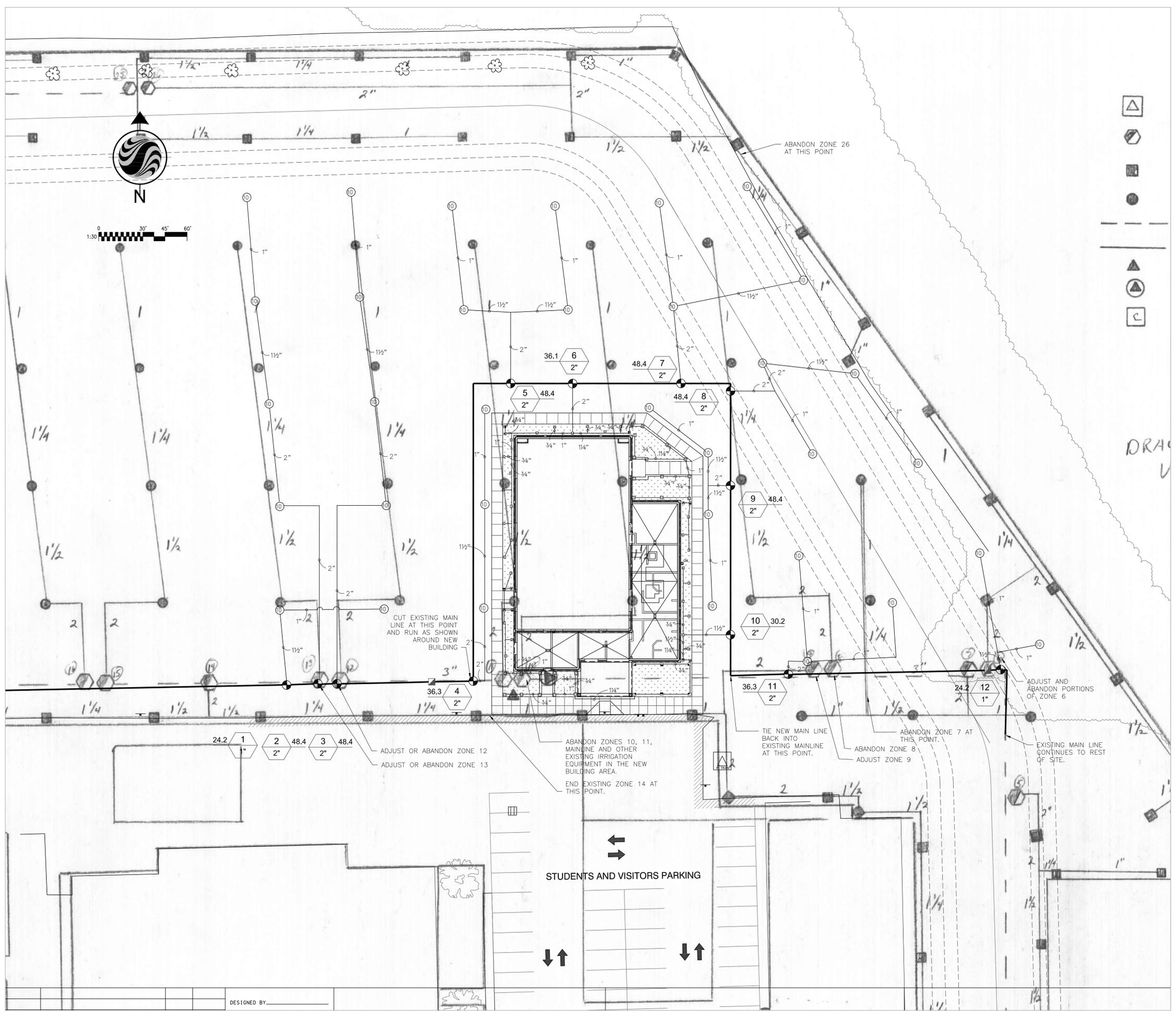


3 BOLLARD - DETAIL  
NTS



6 CONCRETE TRANSFORMER PAD  
NTS

02 Oct 2007 - 10:16am - V:\26863\active\186302001\sheet\1-D-1.dwg



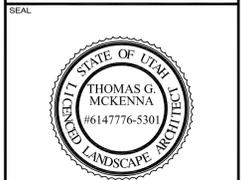
02 Oct 2007 - 10:41am - V:\528663\active\186302100\landscape\L-1\_rev\_080307.dwg

DESIGNED BY \_\_\_\_\_

**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION

PROJECT NO.	186302100	SA-0627
DATE	JULY 2, 2007	
DRAWN BY	SMC	
CHECKED BY	TM AKW	
SHEET DESCRIPTION	LANDSCAPE AND IRRIGATION PLAN	

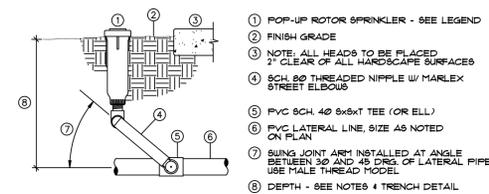


**Stantec**  
Stantec Consulting Inc.  
3995 S 700 E Ste. 300  
Salt Lake City, UT  
84107-2540  
Tel. 801.261.0090  
Fax. 801.266.1671  
www.stantec.com

**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
PROJECT NO.	186302100 SA-0627
DATE	JULY 2, 2007
DRAWN BY	SMC
CHECKED BY	TM AKW
SHEET DESCRIPTION	
<b>IRRIGATION DETAILS</b>	
SHEET NO.	

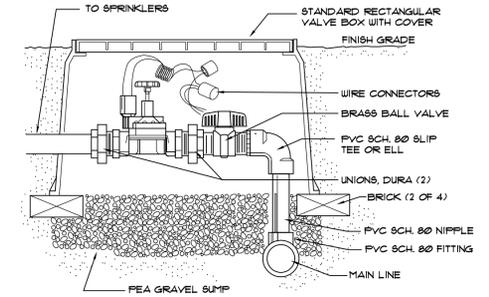
**L-2**



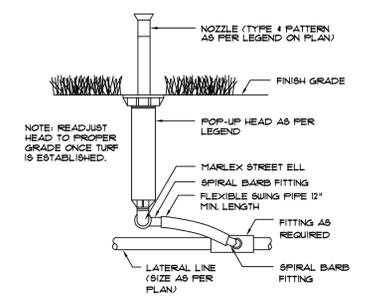
- 1 POP-UP ROTOR SPRINKLER - SEE LEGEND
- 2 FINISH GRADE
- 3 NOTE: ALL HEADS TO BE PLACED 2" CLEAR OF ALL HARDSCAPE SURFACES ON PLAN
- 4 SCH 80 THREADED NIPPLE W/ MARLEX STREET ELBOWS
- 5 PVC SCH. 40 8x8x1 TEE (OR ELL.)
- 6 PVC LATERAL LINE, SIZE AS NOTED
- 7 SWING JOINT ARM INSTALLED AT ANGLE BETWEEN 30 AND 45 DEG. OF LATERAL PIPE. USE MALE THREAD MODEL.
- 8 DEPTH - SEE NOTES. 4 TRENCH DETAIL.

POP-UP GEAR DRIVE ROTOR SPRINKLER  
NTS

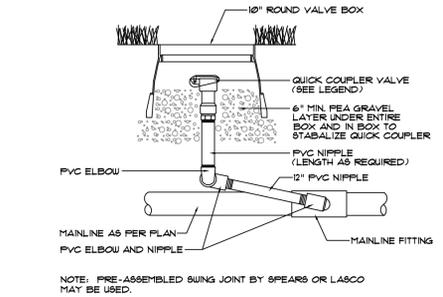
- NOTES**
1. INSPECTION: PRIOR TO BACKFILLING AROUND VALVE BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER. SYSTEM MUST BE PRESSURIZED DURING INSPECTION.
  2. PLACEMENT: FLUSH MAIN LINES PRIOR TO INSTALLING CONTROL VALVES. INSTALL CONTROLLERS AND WIRING PER MANUFACTURER'S RECOMMENDATIONS.
  3. BACKFILL: INSTALL BACKFILL AROUND PIPE AND VALVE BOX AND COMPACT TO PREVENT SETTLING.
  4. VALVE BOX: NO MORE THAN TWO VALVES PER STANDARD VALVE BOX.



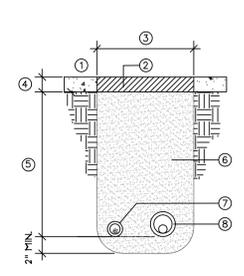
REMOTE CONTROL VALVE  
NO SCALE



POP-UP SPRAY HEAD  
NOT TO SCALE

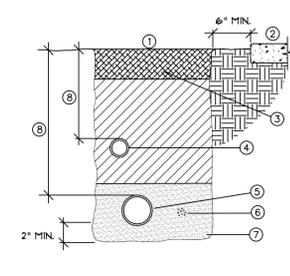


QUICK COUPLER VALVE  
NOT TO SCALE



- 1 EXISTING CONCRETE / ASPHALT
  - 2 SAWCUT & PATCH CONCRETE/ ASPHALT AS REQUIRED
  - 3 WIDTH AS REQUIRED
  - 4 3" DEPTH FOR CONCRETE 3" DEPTH FOR ASPHALT
  - 5 DEPTH AS REQUIRED TO MATCH MAINLINE (18"-30") OR LATERAL (8"-14") PIPING OR CONTROL WIRES (18"-30")
  - 6 COMPACTED BACKFILL FREE FROM ROCKS GREATER THAN 1 1/2" IN DIAMETER
  - 7 CONTROL WIRES 6" TO EITHER SIDE OR 6" UNDER MAINLINE.
  - 8 PVC MAIN LINE/LATERAL
- NOTES:  
• SLEEVES SHALL BE PVC SCH. 40 PIPE.

SLEEVING DETAIL  
NTS



- 1 IF LAWN IS EXISTING, REPLACE & CP AS PER OWNER'S SPECIFICATIONS.
  - 2 ADJACENT HARD SURFACE
  - 3 TOPSOIL FREE FROM ROCKS GREATER THAN 1" DIAMETER
  - 4 NON-PRESSURE LATERAL LINE
  - 5 PRESSURE MAIN LINE
  - 6 DIRECT BURIAL, LOW VOLTAGE CONTROL WIRES: TAPE AND BUNDLE AT 10" O.C. PLACE 6" EITHER SIDE OF PIPE OR 6" BELOW
  - 7 MORTAR SAND BEDDING 2" BELOW AND ABOVE PIPE. NO ROCKS LARGER THAN 1" DIAMETER TO GO BACK INTO TRENCH AS PER WRITTEN SPECIFICATIONS.
  - 8 PIPE DEPTHS:  
MAIN LINE: 18 - 30" COVER  
LATERAL LINE: 12" COVER
- NOTE: SEE SLEEVING DETAIL FOR TRENCHING IN PAVED AREAS.

TRENCH DETAIL  
NTS

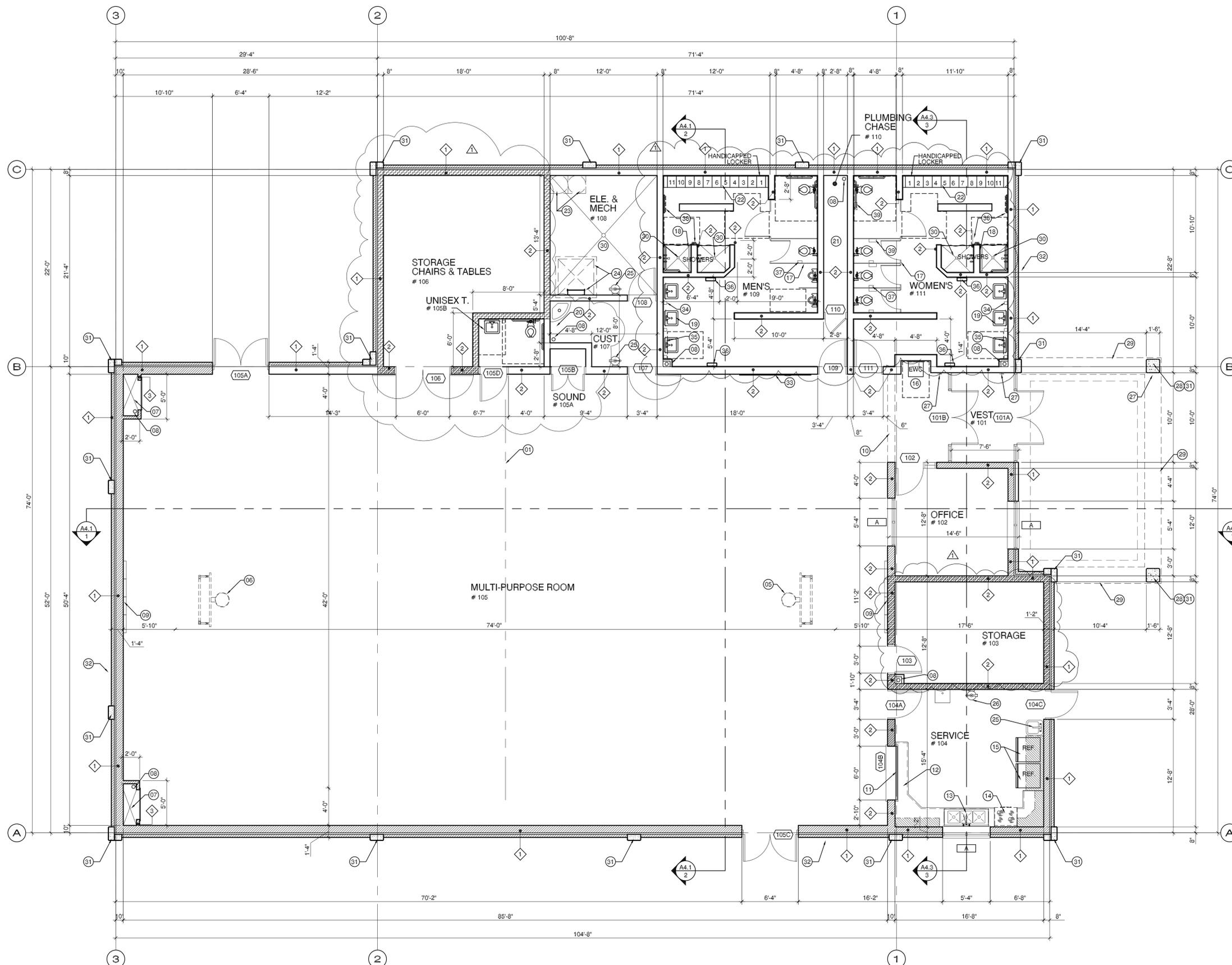
IRRIGATION\_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
EST LCS RCS CST SST	Rain Bird 1804-PRS 15 Strip Series 4" popup with pressure regulator	30		
Q T H TT 10 F	Rain Bird 1804-PRS 12 Series MPR 4" popup with pressure regulator	30		
Q T H TT 10 F	Rain Bird 1804-PRS 15 Series MPR 4" popup with pressure regulator	30		
4 6 8 10 12 15 17	Rain Bird 1804-PRS 4 Series VAN 4" popup with pressure regulator	30		
10	Hunter I25-ADV, 36V Turf Rotor 3 1/2" popup, adjustable and full circle, with check valve	70	12.1	48'
⊕	Rain Bird PES Electric Remote Control Valve			
■	Rain Bird 44LRC 1" Quick Coupler Valve, two piece body, locking cover			
—	Irrigation Lateral Line: PVC Schedule 40			
—	Irrigation Mainline: PVC Schedule 40			
⚡	Valve Callout			
#	Valve Number			
→	Valve Flow			
#"	Valve Size			

NOTES

1. THIS SYSTEM IS BASED UPON AN AVAILABLE STATIC PRESSURE OF TO PSI MINIMUM. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONFIRM THE STATIC WATER PRESSURE AND THE SIZE OF THE POINT OF CONNECTION (POC).
2. COORDINATE AND LOCATE ALL EXISTING UTILITIES ON THE SITE PRIOR TO EXCAVATION.
3. THIS PLAN IS DIAGRAMMATIC. SOME EQUIPMENT MAY BE SHOWN IN PAVED AREAS AND BUILDINGS FOR PLAN CLARITY.
4. INSTALL SLEEVES UNDER ALL PAVED SURFACES WHERE LINES AND CONTROL WIRES CROSS UNDER. SLEEVE SIZE SHALL BE 2 SIZES LARGER THAN THE LINE. EXTEND 6" BEYOND THE PAVED SURFACE ON EACH SIDE.
5. INSTALL MANUAL DRAIN VALVES AT ALL LOW POINTS ALONG IRRIGATION MAIN LINE AND EACH SIDE OF DRIVEWAY WHERE MAIN LINE CROSSES UNDER.
6. INSTALL VARIABLE ARC NOZZLES ON SPRINKLER HEADS AS NEEDED.
7. INSTALL 4" POPUPS IN LAWN AREAS.
8. CONTRACTOR IS TO VERIFY IN THE FIELD ALL LOCATIONS OF EXISTING IRRIGATION SYSTEM COMPONENTS.
9. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING ALL EXISTING IRRIGATION SYSTEM COMPONENTS OUTSIDE OF SCOPE OF WORK.
10. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PARTS OF EXISTING SYSTEM BROKEN DURING CONSTRUCTION.

27 Sep 2007 - 9:54am - S:\Current Jobs\SA-0627 Utah County Academy of Science Gym Addition\1-CDE cad\Arch\A1.1 Floor Plan.dwg



**KEYED NOTES**

01. ROLL-UP CURTAIN (GYM DIVIDER), ELECTRICALLY OPERATED
02. 2" VCT COURT FEATURE STRIP AT BASKETBALL COURT LINES, ACCENT COLOR(S) AS SELECTED BY ARCHITECT.
03. 2" VCT COURT FEATURE STRIP AT VOLLEYBALL AND CIRCLE COURT LINES, ACCENT COLOR(S) AS SELECTED BY ARCHITECT.
04. VOLLEYBALL SLEEVE, SEE DETAIL 2/A1.3
05. FORWARD FOLDING BASKETBALL STOP. (ELECTRICALLY OPERATED)
06. FORWARD FOLDING BASKETBALL STOP. (ELECTRICALLY OPERATED)
07. MECHANICAL CHASE, (RETURN AIR). SEE MECHANICAL SHEETS
08. ROOF DRAIN DOWNSPOUT. SEE PLUMBING SHEETS.
09. WALL PADDING, SEE INT. ELEVATIONS.
10. MASONRY LINTEL ABOVE, SEE STRUCTURAL
11. ROLL-UP METAL DOOR, SEE DOOR SCHEDULE.
12. SERVICE AREA MILLWORK, SEE FURNISHING SHEETS.
13. 3-SINK COMPARTMENT, SEE PLUMBING SHEETS.
14. RANGE, NIC
15. REFRIGERATOR, NIC.
16. ELECTRICAL WATER COOLER, SEE INTERIOR ELEVATIONS AND PLUMBING SHEETS.
17. SOLID PHENOLIC TOILET COMPARTMENTS AND SHOWER DIVIDER, SEE INTERIOR ELEVATIONS.
18. FOLD DOWN HANDICAP SHOWER SEAT.
19. SINK, SEE PLUMBING SHEETS AND SPECS.
20. MOP SINK, SEE PLUMBING SHEETS.
21. PLUMBING CHASE.
22. DOUBLE-TIER METAL LOCKERS, SEE INTERIOR ELEVATIONS AND SPECS.
23. WATER HEATER, SEE PLUMBING SHEETS.
24. ROOF ACCESS HATCH AND LADDER, SEE DETAILS 4/A2.4
25. BRACKET-MOUNTED FIRE EXTINGUISHER
26. HAND SINK
27. ADA ACTUATOR PAD.
28. STRUCTURAL STEEL COLUMN, SEE STRUCTURAL SHEETS.
29. COVERED ENTRANCE ROOF LINE. SEE EXTERIOR ELEVATIONS AND BUILDING SECTIONS.
30. FLOOR DRAIN. SEE PLUMBING SHEETS.
31. PRECAST FEATURE, SEE DETAIL 3/A1.2 REFER TO EXTERIOR ELEVATIONS
32. NOT USED
33. 4' X 8' TACKBOARD
34. SOAP DISPENSER, NIC.
35. 20" X 30" MIRROR, SEE SPECS.
36. PAPER TOWEL/WASTE RECEPTACLE, NIC.
37. TOILET PAPER HOLDER, NIC.
38. STAINLESS STEEL TOWEL/ROBE HOOKS, SEE SPECS.
39. SANITARY NAPKIN WASTE RECEPTACLE, SEE SPECS.

**RATING LEGEND**

▨ HATCH DENOTES 1 HOUR CONSTRUCTION



**FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

1



845 South 220 East  
Orem, UT 84058  
801.229.0088 801.229.0089 Fax  
www.sandstromarchitecture.com



**DESIGN DEVELOPMENT FOR:  
UTAH VALLEY STATE COLLEGE  
UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

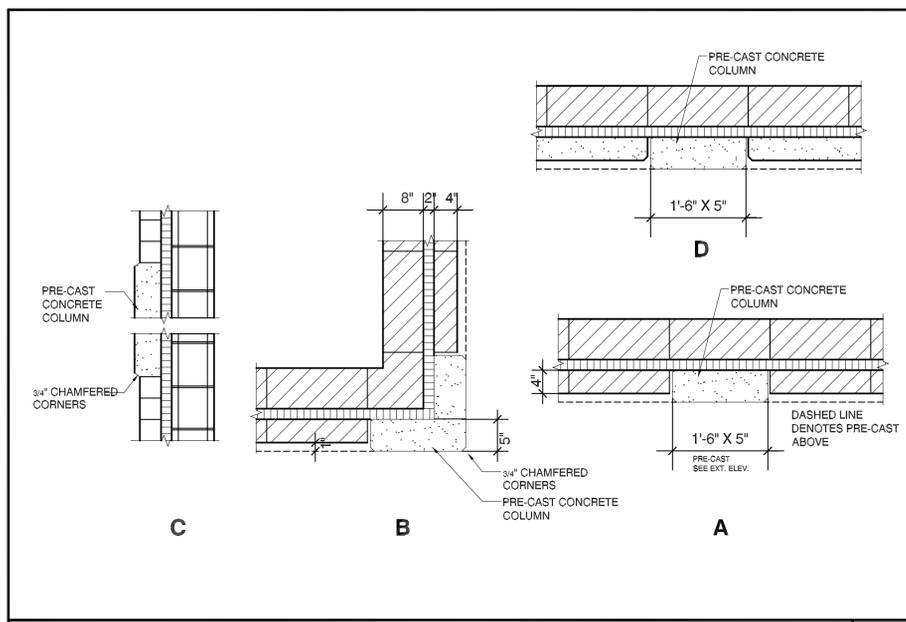
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS

PROJECT NO.	SA-0627
DATE	SEP 10, 06
DRAWN BY	AL
CHECKED BY	SES

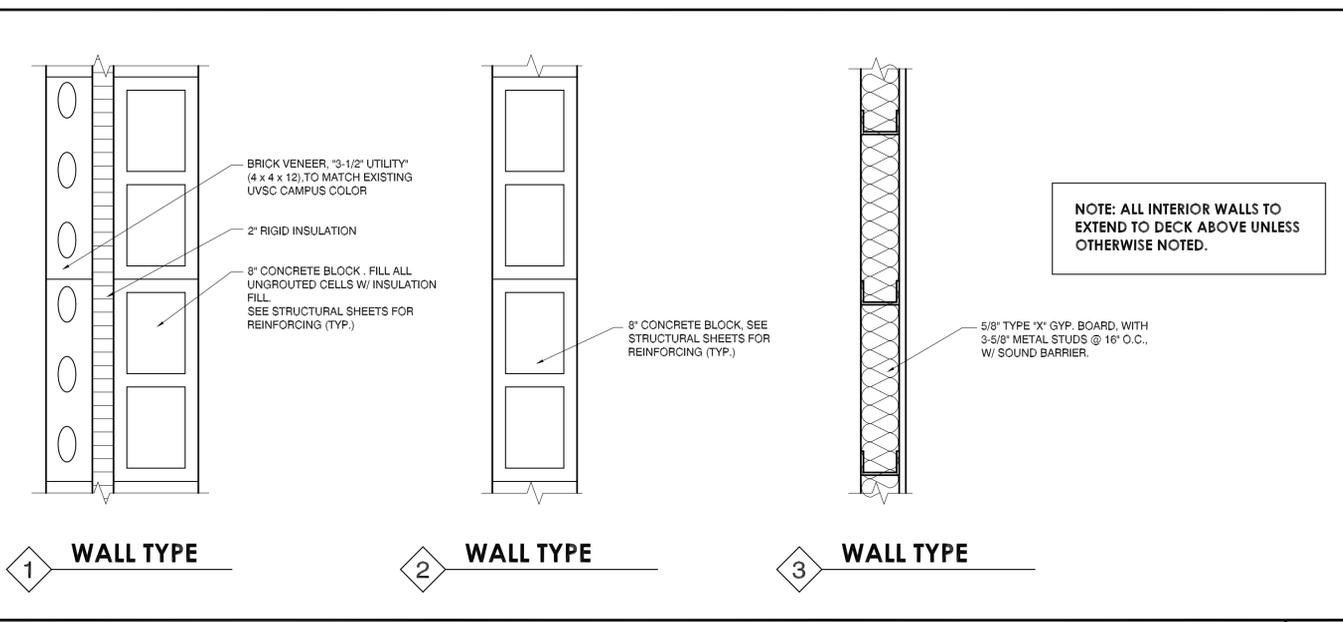
MAIN FLOOR PLAN

SHEET NO.

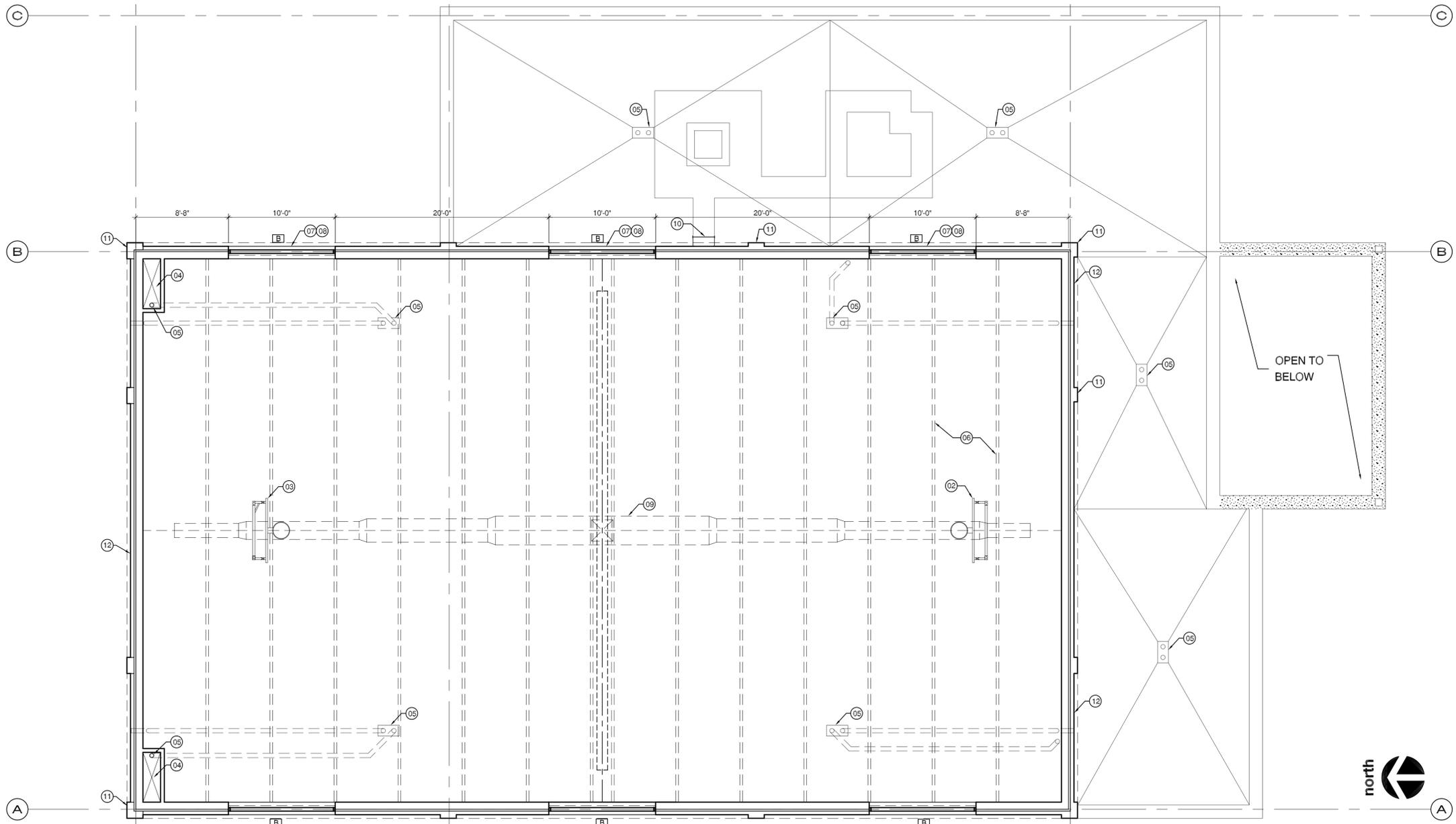
**A1.1**



**PRECAST COLUMN DETAILS**  
SCALE: 3/4" = 1'-0" **3**



**WALL TYPES**  
SCALE: 1-1/2" = 1'-0" **2**



**CLERESTORY LEVEL PLAN**  
SCALE: 3/16" = 1'-0" **1**

**KEYED NOTES**

01. ROLL-UP CURTAIN (GYM DIVIDER), SOLID AND MESH CONFIGURATION, ELECTRICALLY OPERATED.
02. VERTICAL STATIONARY BASKETBALL STOP.
03. FORWARD FOLDING BASKETBALL STOP. (ELECTRICALLY OPERATED)
04. MECHANICAL CHASE, (RETURN AIR). SEE MECHANICAL SHEETS
05. ROOF DRAIN DOWNSPOUT. SEE PLUMBING SHEETS.
06. STEEL JOIST. SEE STRUCTURAL SHEETS.
07. WINDOW PANEL. SEE WINDOW TYPES.
08. MOTORIZED SHADING SYSTEM. SEE ELECTRICAL SHEETS AND SPECS.
09. MECHANICAL DUCT. SEE MECHANICAL SHEETS.
10. STEEL ACCESS LADDER. SEE DETAIL 9 & 10 IN SHEET A2.4.
11. PRECAST COLUMN/FEATURE. SEE DETAIL 3/A1.2
12. PRECAST CONCRETE PANEL ABOVE. SEE EXTERIOR ELEVATIONS.

**sandstrom | associates**  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com



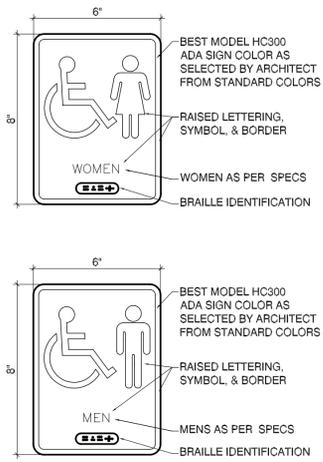
**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

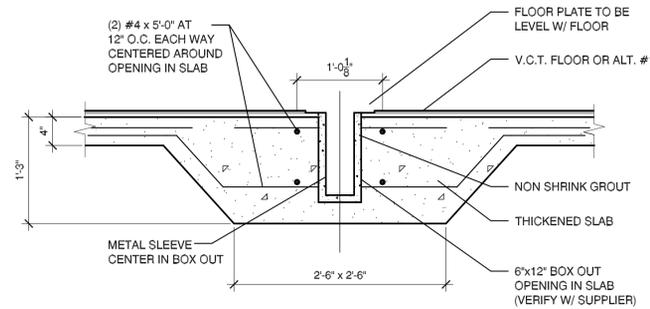
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	<b>WALL TYPES &amp; CLERESTORY LEVEL</b>
SHEET NO.	<b>A1.2</b>

27 Sep 2007 - 10:05am - S:\Current Jobs\SA-0627 Utah County Academy of Science Gym Addition\1-CD's cad\Arch\A1.3 Furnishing Plan.dwg



**RESTROOM SIGNS**  
SCALE: 3" = 1'-0" 3



**VOLLEYBALL POST SLEEVE DETAIL**  
SCALE: 1" = 1'-0" 2

**GENERAL NOTES**

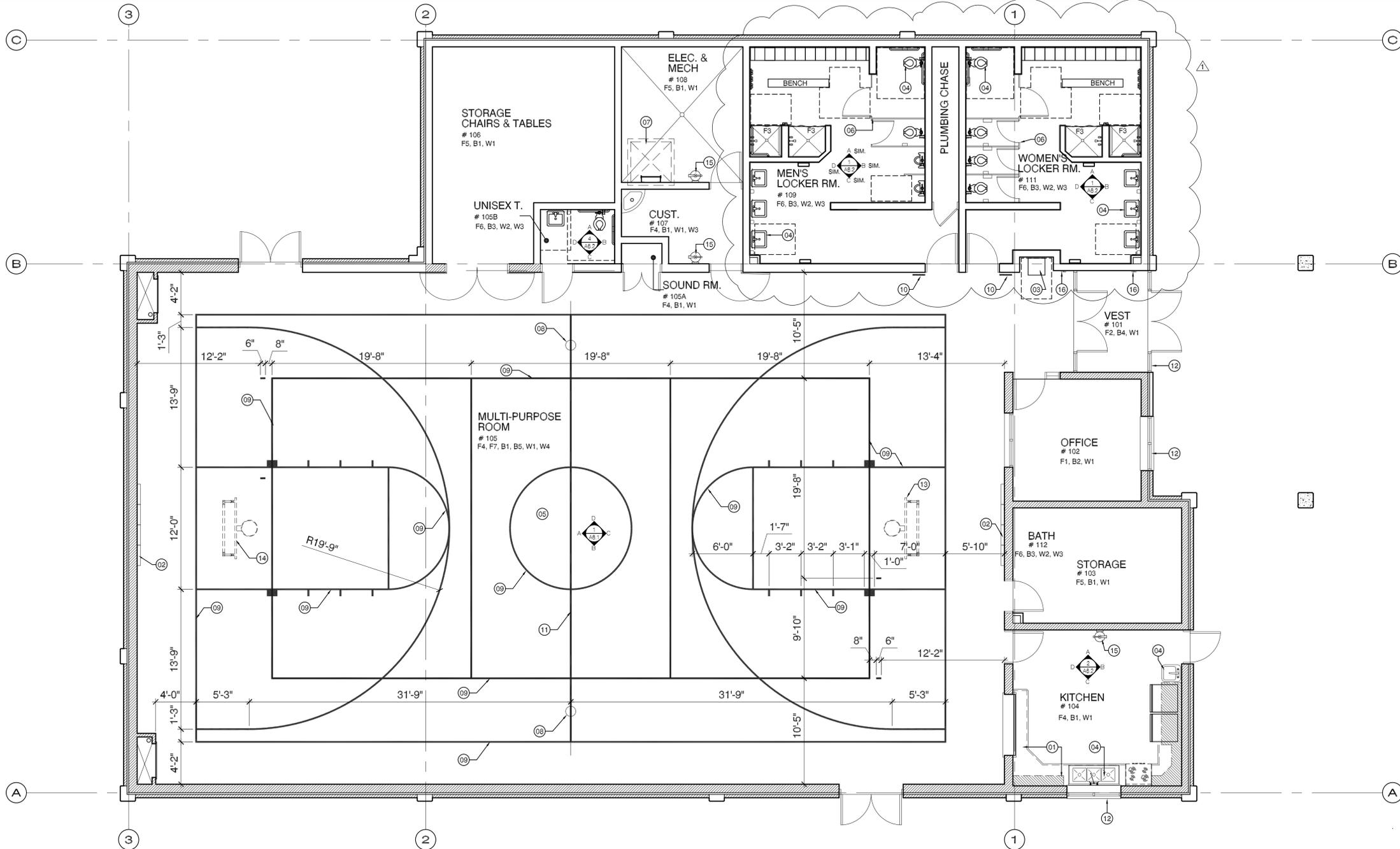
A. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.

**FURNISHING PLAN NOTES**

01. ARCHITECTURAL MILLWORK, SEE INTERIOR ELEVATIONS
02. WALL PADS
03. ELECTRIC WATER COOLER
04. PLUMBING FIXTURE, SEE PLUMBING SHEETS
05. SCHOOL LOGO, REFER TO SPECS. FOR ALLOWANCE
06. SOLID PHENOLIC TOILET PARTITIONS - SEE SPECS
07. ROOF ACCESS HATCH AND LADDER. SEE DETAIL 4/A2.4
08. VOLLEYBALL SLEEVE, SEE DETAIL 2/A1.3
09. 2" VCT COURT FEATURE STRIP AT BASKETBALL COURT AND VOLLEYBALL COURT AND CIRCLE LINES. ACCENT COLORS AS SELECTED BY ARCHITECT, FROM FULL RANGE OF COLORS
10. MEN'S & WOMEN'S RESTROOM SIGNS, SEE 3/A1.3
11. SUSPENDED TOP ROLLING DIVIDER CURTAIN - SEE SPECS.
12. STORE FRONT SYSTEM, REFER TO EXT. ELEVATIONS
13. FIXED MOUNTED BASKETBALL BACKSTOP
14. FORWARD SWINGING, FOLDING BASKETBALL BACKSTOP
15. BRACKET MOUNTED FIRE EXTINGUISHER
16. ADA ACTUATOR. SEE SPECS.

**FINISH SCHEDULE**

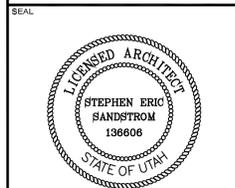
- FLOOR:**
- F1 GLUE-DOWN CARPET
  - F2 ENTRANCE FLOOR MAT
  - F3 2" X 2" UNGLAZED CERAMIC MOSAIC TILE, RECESS SLAB
  - F4 12" X 12" VINYL COMPOSITION TILE
  - F5 EXPOSED CLEAR - SEALED CONCRETE
  - F6 RESINOUS FLOOR
  - F7 HARDWOOD FLOORING (ALTERNATE #1)
- BASE:**
- B1 4" RUBBER COVE BASE
  - B2 4" CARPET BASE
  - B3 6" X 6" CERAMIC TILE
  - B4 4" SELF-COVED ENTRY MAT
  - B5 ALUMINUM BASE (ALTERNATE #1)
- WALLS:**
- W1 PAINTED CONCRETE BLOCK
  - W2 EPOXY COATED CONCRETE BLOCK
  - W3 CERAMIC TILE
  - W4 TECTUM ACOUSTICAL PANELS, SEE ELEVATIONS
- CEILINGS:**
- SEE SELECTED CEILING PLAN FOR CEILING TYPES. SEE INTERIOR ELEVATIONS FOR TRIM



**FURNISHING PLAN**  
SCALE: 3/16" = 1'-0" 1



845 South 220 East  
Orem, UT 84058  
801.229.0068 801.229.0089 Fax  
www.sandstromarchitecture.com



**DESIGN DEVELOPMENT FOR:  
UTAH VALLEY STATE COLLEGE  
UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS

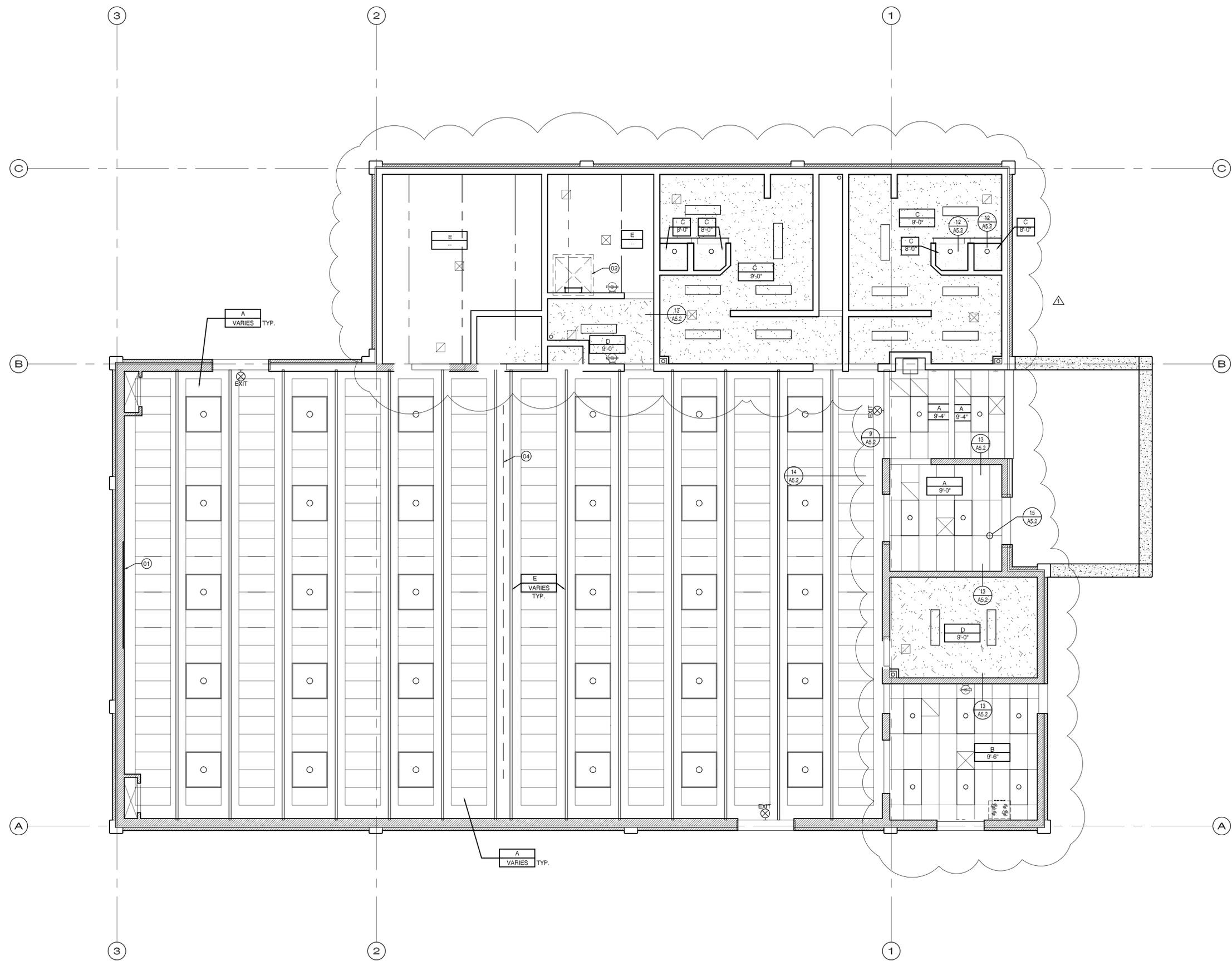
PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES

SHEET DESCRIPTION  
**FURNISHING PLAN**

SHEET NO.

**A1.3**

27 Sep 2007 - 10:13am - S:\Current\Jobs\SA-0627 Utah County Academy of Science Gym Addition\1-CD's cad\Arch\A2.1 Reflected Ceiling Plan.dwg

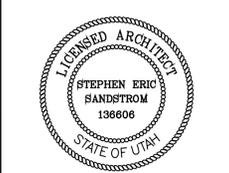


**GENERAL NOTES**

- A- PRIOR TO INSTALLATION OF CEILING SYSTEM, ALL MECHANICAL, ELECTRICAL, FIRE PROTECTION AND CEILING SUB-CONTRACTORS SHALL COORDINATE THEIR WORK WITH THE REFLECTED CEILING PLAN. IF ANY CONFLICTS OCCUR, THE REFLECTED CEILING PLAN SHALL TAKE PRECEDENCE.
- B- CUT ALL ROOFING ANCHORS THAT PENETRATE EXPOSED PAINTED STRUCTURE AT 2" FROM DECKING.
- C- ALL CEILING SYSTEMS SHALL BE BRACED AS PER CURRENT IBCO AND LOCAL BUILDING CODE. SEE DETAIL 6/A2.3.
- D- ALL LIGHT FIXTURES SHALL BE SUSPENDED WITH #9 WIRES FROM EACH CORNER, INDEPENDENT OF CEILING SUPPORT SYSTEM, TO STRUCTURE ABOVE. SEE ELECTRICAL SHEETS.
- E- ALL EXPOSED STEEL JOIST, DECK, MECHANICAL DUCT WORK, CONDUIT, ETC., TO BE PAINTED.

**sandstrom|associates**  
ARCHITECTURE, P.C.

845 South 230 East  
Orem, UT 84059  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com



**SHEET NOTES**

- 01. MOTORIZED PROJECTION SCREEN. SEE SPECS FOR SIZE.
- 02. ROOF ACCESS HATCH. SEE DETAIL 4/A2.4
- 03. ONE-HOUR RATED 22" X 30" MINIMUM CEILING ACCESS PANEL. KEYED LOCK. COLOR TO MATCH CEILING.
- 04. SUSPENDED TOP ROLLING DIVIDER CURTAIN - SEE SPEC.

**CEILING LEGEND**

<b>A</b>	2' x 4' ACOUSTICAL PANEL (SPEC TYPE I).	
<b>B</b>	2' x 4' VINYL COATED ACOUSTICAL PANEL (SPEC TYPE II).	
<b>C</b>	EPOXY PAINTED SMOOTH FINISH GYP. BD. SEE 9/A2.2.	
<b>D</b>	PAINTED MEDIUM KNOCK DOWN TEXTURE. SEE 6/A2.2.	
<b>E</b>	PAINTED EXPOSED STRUCTURE, DECKING, DUCTWORK, PIPING, CONDUITS, ETC.	

**LIGHT/HVAC SYMBOLS**

LIGHT FIXTURES		
LIGHT FIXTURES		
EXIT SIGN		
SUPPLY GRILL		
RETURN GRILL		

**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

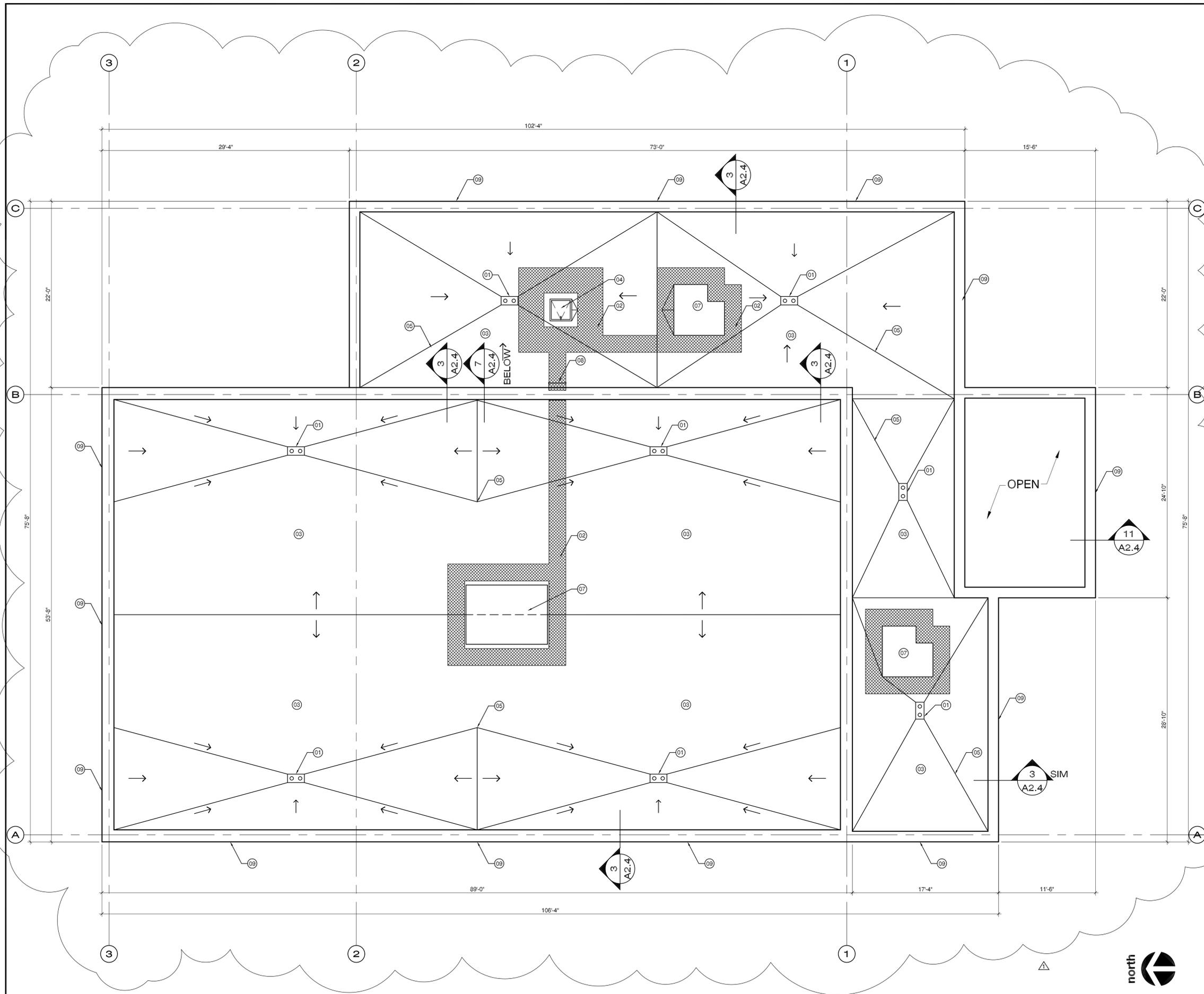
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES

REFLECTED CEILING PLAN

A2.1

27 Sep 2007 - 10:18am - S:\Current\_Lobby\SA-0627 Utah County Academy of Science Gym Addition\CDs cad\Arch\A&3 Roof Fla.dwg



**GENERAL NOTES**

- A. ALL MECHANICAL UNITS AND OTHER ROOF PENETRATIONS MAY NOT BE SHOWN. REFER TO MECHANICAL AND PLUMBING SHEETS. PROVIDE FLASHINGS, CRICKETS AND REGLETS AT EACH UNIT, SHOWN OR NOT. VERIFY EACH LOCATION ON MECHANICAL AND PLUMBING SHEETS.
- B. ABSOLUTELY ALL MECHANICAL UNITS SHALL BE MOUNTED ON TOP OF A CURB. SLEEPER INSTALLATION WILL NOT BE ALLOWED.
- C. CUT OFF ALL ROOFING INSULATION ANCHORS TO WITHIN 2' OF ROOF DECK IN ALL AREAS WHERE THE STRUCTURE IS TO BE EXPOSED.
- D. OPENINGS IN THE ROOF SHALL NOT BE LOCATED WITHIN 5 FEET OF EITHER SIDE OF THE 2 HOUR SEPARATION WALLS OR WITHIN 10'-0" OF PARAPET WALLS.

**sandstrom|associates**  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801. 229-0088 801. 229-0089 Fax  
www.sandstromarchitecture.com

SEAL

LICENSED ARCHITECT  
STEPHEN ERIC SANDSTROM  
136606  
STATE OF UTAH

**KEYED NOTES**

- 01. ROOF DRAINS.
- 02. SHADED AREA INDICATES PROTECTIVE ROOFING WALKWAY FULLY ADHERED. SEE SPEC.
- 03. SINGLE-PLY MEMBRANE ROOFING SYSTEM. SEE SPEC.
- 04. ROOF HATCH. SEE 4/A2.4.
- 05. FIELD CONTOURED INSULATION ROOFING CRICKETS. SLOPE 1/2" PER FOOT MINIMUM.
- 06. PLUMBING VENTS, EXHAUST DUCT AND OTHER ROOF PENETRATIONS FLASH AS PER ROOF MANUFACTURERS RECOMMENDATIONS. SEE MECHANICAL & PLUMBING SHEETS FOR LOCATIONS.
- 07. MECHANICAL UNIT.
- 08. STEEL ACCESS LADDER. SEE DETAIL 9/A2.4
- 09. PRE-FINISHED METAL FLASHING, COLOR BY ARCHITECT.

**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	<b>ROOF DRAINAGE PLAN</b>

SHEET NO.  
**A2.3**

**ROOF DRAINAGE PLAN**  
SCALE: 3/16" = 1'-0" **1**

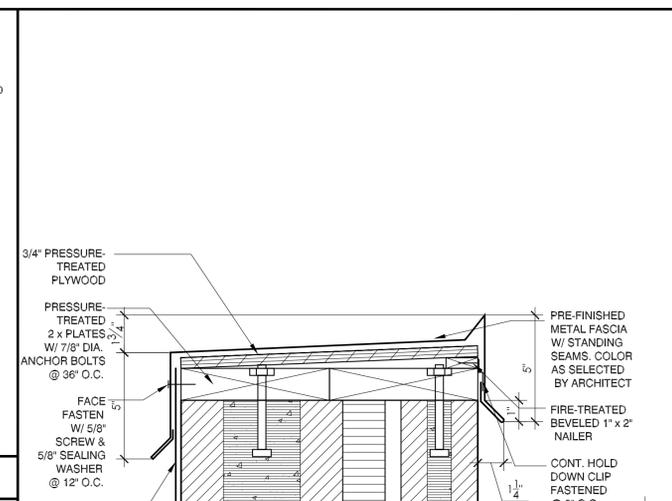
Copyright © 2006, Sandstrom Associates Architecture, P.C.



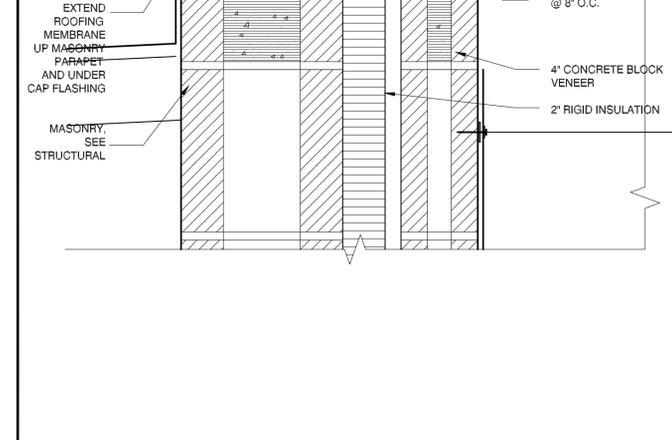
**DESIGN DEVELOPMENT FOR:  
UTAH VALLEY STATE COLLEGE  
UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

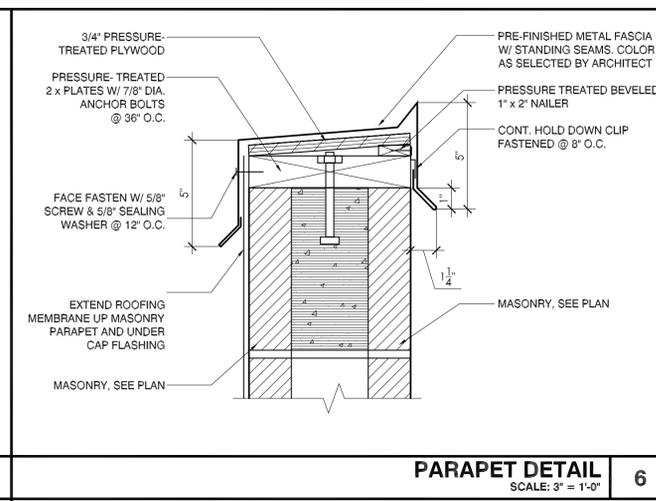
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS
PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	ROOF DETAILS
SHEET NO.	A2.4



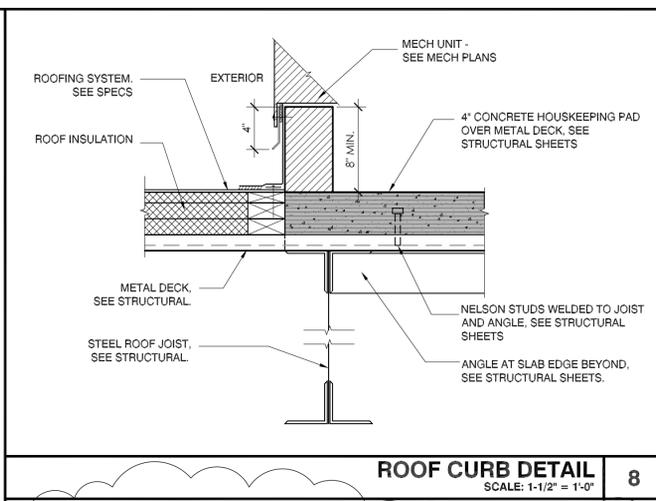
**PARAPET DETAIL 3**  
SCALE: 3" = 1'-0"



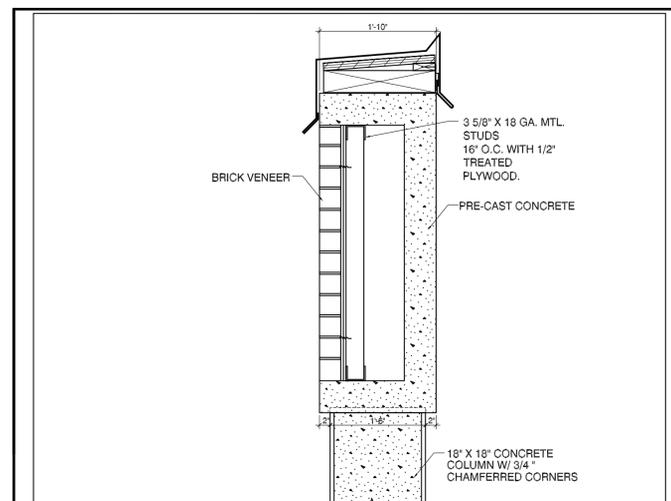
**PARAPET DETAIL 6**  
SCALE: 3" = 1'-0"



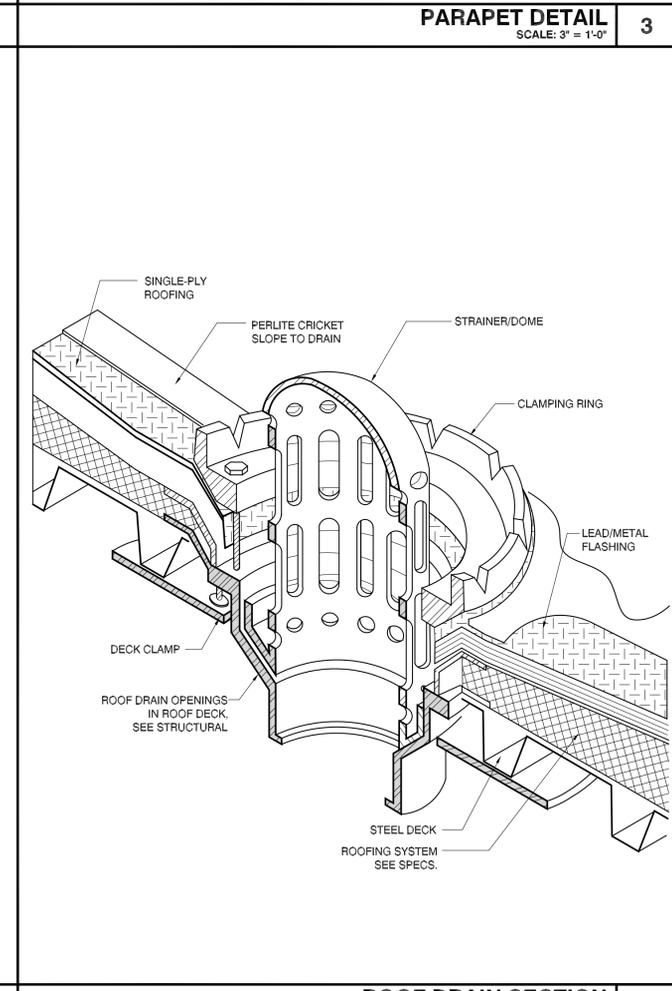
**PARAPET DETAIL 8**  
SCALE: 3" = 1'-0"



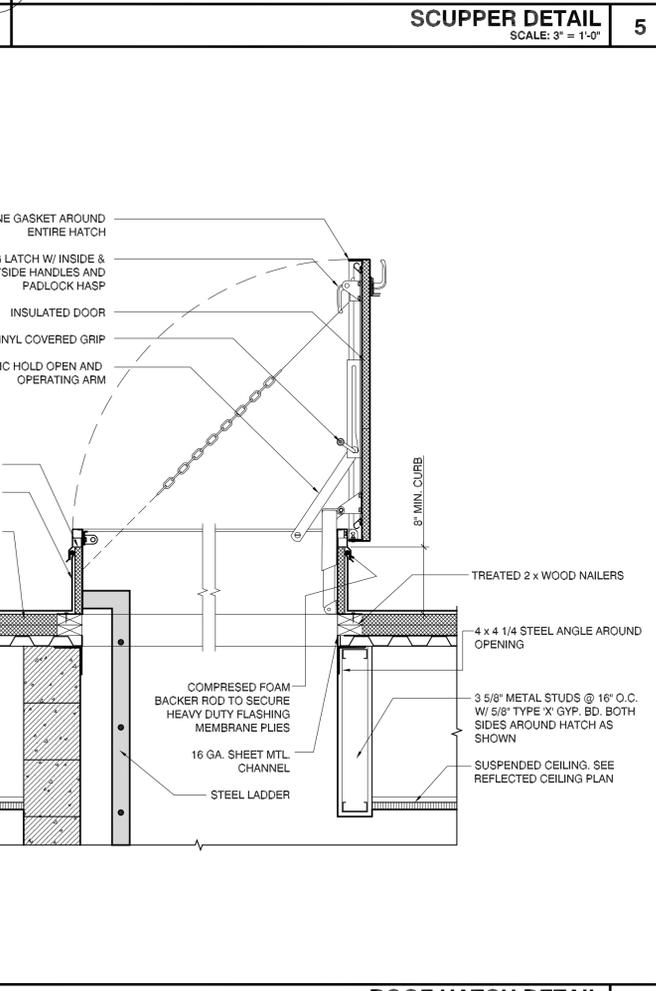
**ROOF CURB DETAIL**  
SCALE: 1-1/2" = 1'-0"



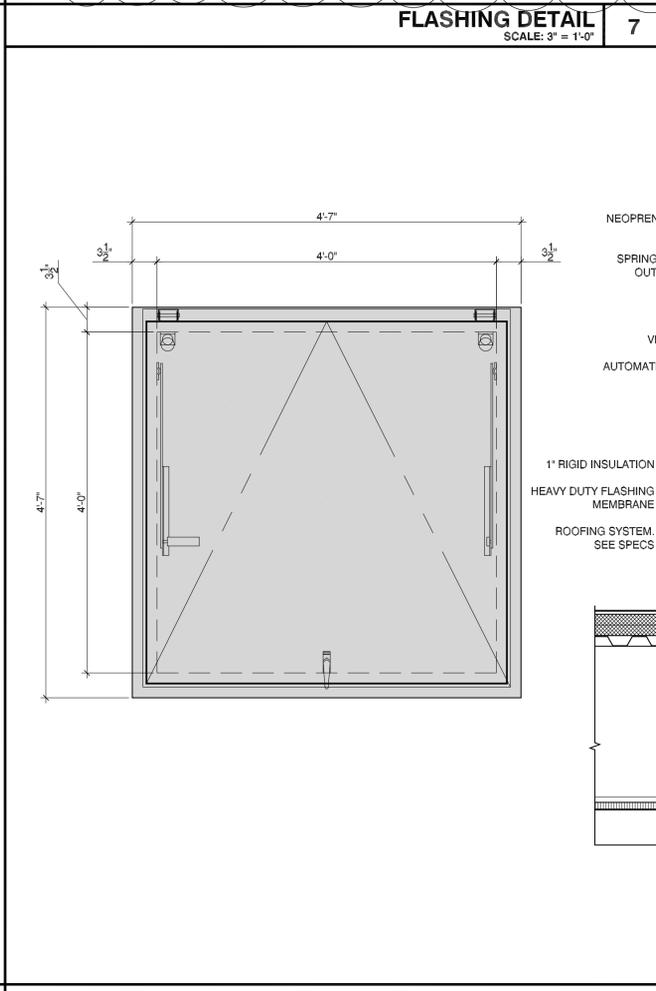
**PRE-CAST ENTRY FASCIA**  
SCALE: 3/4" = 1'-0"



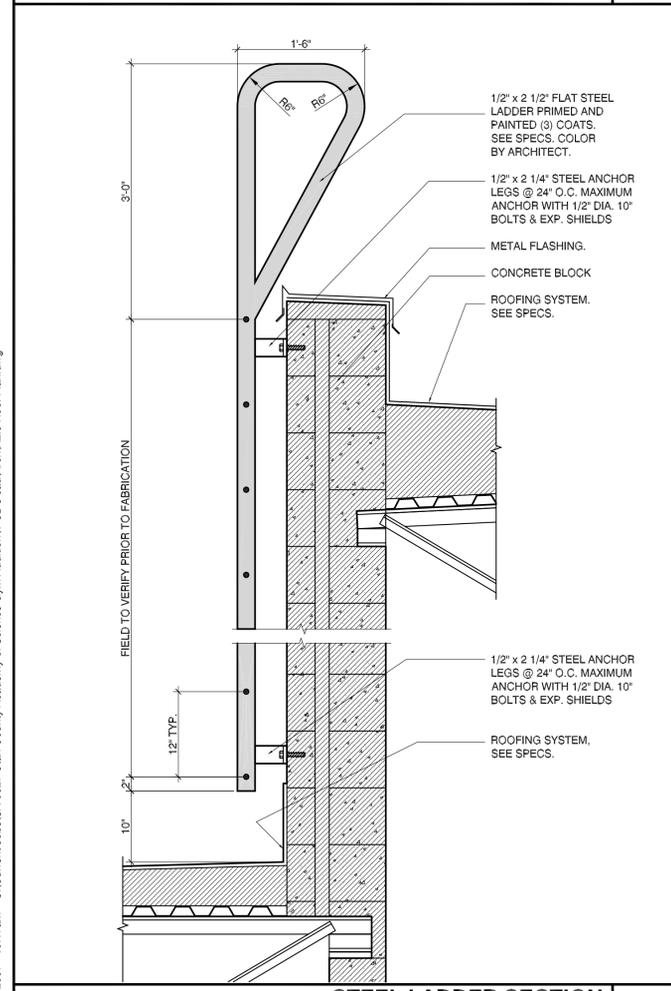
**ROOF DRAIN SECTION**  
NOT TO SCALE



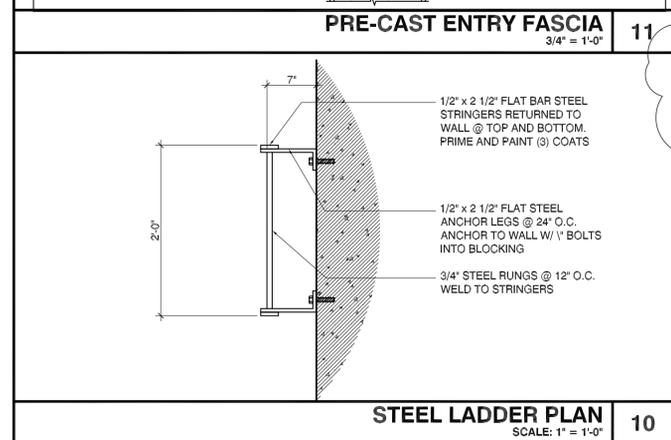
**ROOF HATCH DETAIL**  
SCALE: 1" = 1'-0"



**FLASHING DETAIL**  
SCALE: 3" = 1'-0"



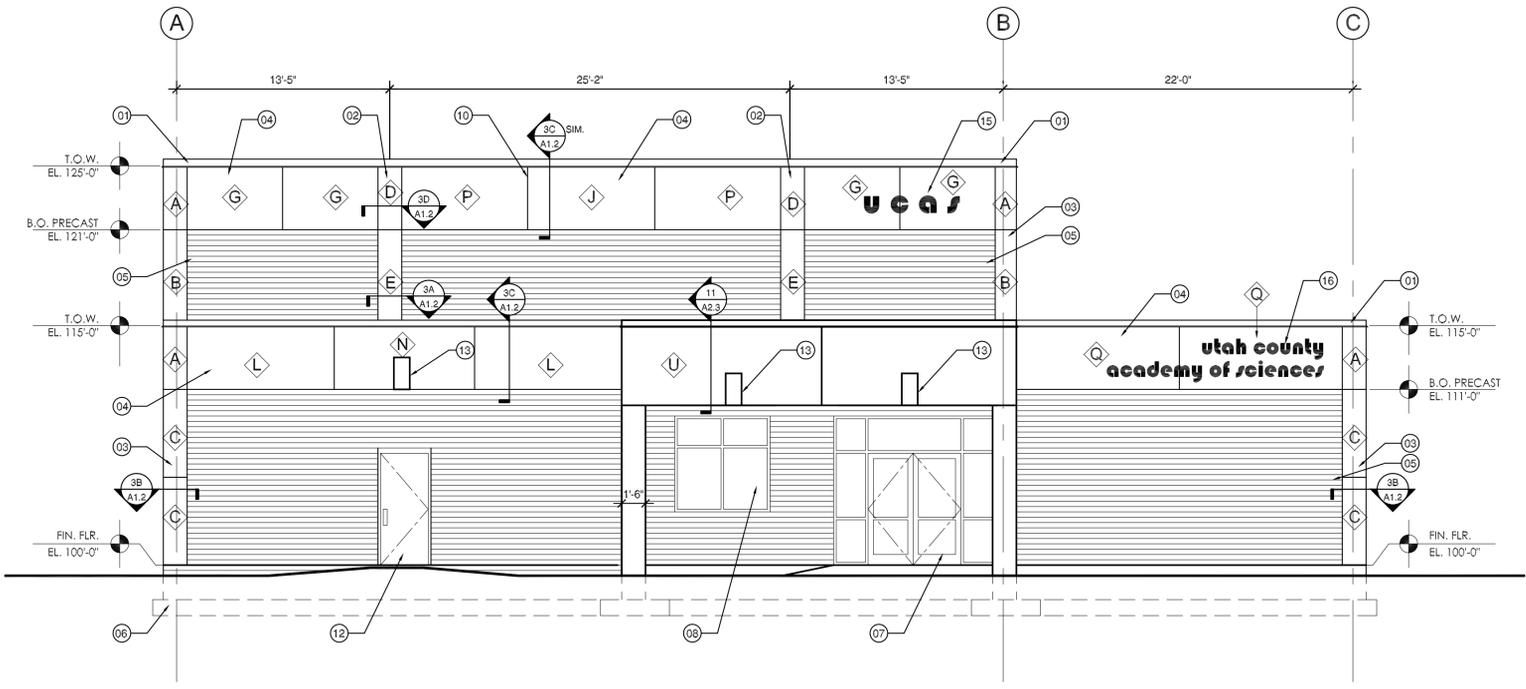
**STEEL LADDER SECTION**  
SCALE: 1" = 1'-0"



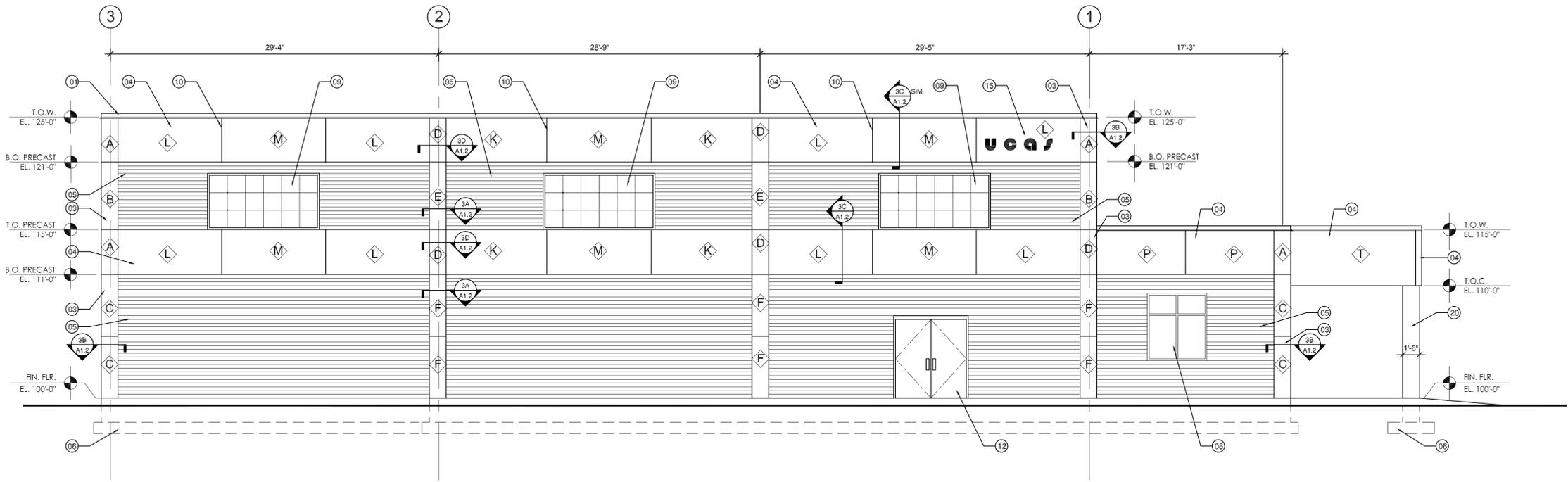
**STEEL LADDER PLAN**  
SCALE: 1" = 1'-0"

27 Sep 2007 - 10:17am - S:\Current\_Lobby\SA-0627 Utah County Academy of Science Gym Addition\1-CD's cad\Arch\A2.3 Roof Plan.dwg

Copyright © 2006, Sandstrom Associates Architecture, P.C.



**SOUTH ELEVATION**  
SCALE: 3/16" = 1'-0" 2



**WEST ELEVATION**  
SCALE: 3/16" = 1'-0" 1

**SHEET NOTES**

01. PRE-FINISHED METAL CAP FLASHING AND DRIP EDGE. COLOR TO MATCH ALUMINUM STOREFRONT SYSTEM.
02. PRECAST CONCRETE COLUMN. SEE SCHEDULE AND SPECS
03. PRECAST CONCRETE CORNER. SEE SCHEDULE AND SPECS
04. PRECAST CONCRETE PANEL. SEE SCHEDULE AND SPECS
05. BRICK VENEER. COLOR BY ARCHITECT.
06. CONCRETE FOOTINGS AND FOUNDATION WALL. SEE STRUCTURAL SHEETS.
07. DARK BRONZE. ALUMINUM STOREFRONT SYSTEM. SEE DOOR TYPES.
08. DARK BRONZE. ALUMINUM WINDOW SYSTEM. SEE WINDOW TYPES.
09. TRANSLUCENT WALL/WINDOW SYSTEM. SEE WINDOW TYPES.
10. EXPANSION JOINT.
11. APPROXIMATE LOCATION OF ROOF DRAIN, AND DOWNSPOUT BRASS SCUPPER. SEE PLUMBING, VERIFY W/ ARCHITECT FINAL LOCATION.
12. HOLLOW METAL INSULATED DOOR. COLOR TO MATCH ALUMINUM STOREFRONT SYSTEM. SEE DOOR SCHEDULE.
13. EXTERIOR WALL LIGHT FIXTURE. SEE ELECTRICAL.
14. ROOF LINE. SEE ROOF PLAN.
15. ALUMINUM NAME LETTERS 18" TALL AND 4" DEEP.
16. ALUMINUM NAME LETTERS 12" TALL AND 4" DEEP.
17. 18"x18" PRE-CAST COLUMN.

**PRECAST SCHEDULE**

- CORNERS**
- A - 1'-6" X 4'-0"
  - B - 1'-6" X 6'-0"
  - C - 1'-6" X 5'-6"
- COLUMNS**
- D - 1'-6" X 4'-0"
  - E - 1'-6" X 6'-0"
  - F - 1'-6" X 5'-6"
  - R - 1'-6" X 1'-0"
- PANELS**
- G - 6'-0" X 4'-0"
  - H - 7'-10" X 4'-0"
  - J - 8'-0" X 4'-0"
  - K - 9'-0" X 4'-0"
  - L - 9'-3" X 4'-0"
  - M - 9'-4" X 4'-0"
  - N - 8'-10" X 4'-0"
  - O - 7'-5" X 4'-0"
  - P - 7'-11" X 4'-0"
  - Q - 10'-3" X 4'-0"
  - S - 7'-6" X 4'-0"
  - T - 11'-0" X 5'-0"
  - U - 24'-8" X 5'-0"

**sandstrom** associates  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801.229.0066 801.229.0089 Fax  
www.sandstromarchitecture.com



**DESIGN DEVELOPMENT FOR:  
UTAH VALLEY STATE COLLEGE  
UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

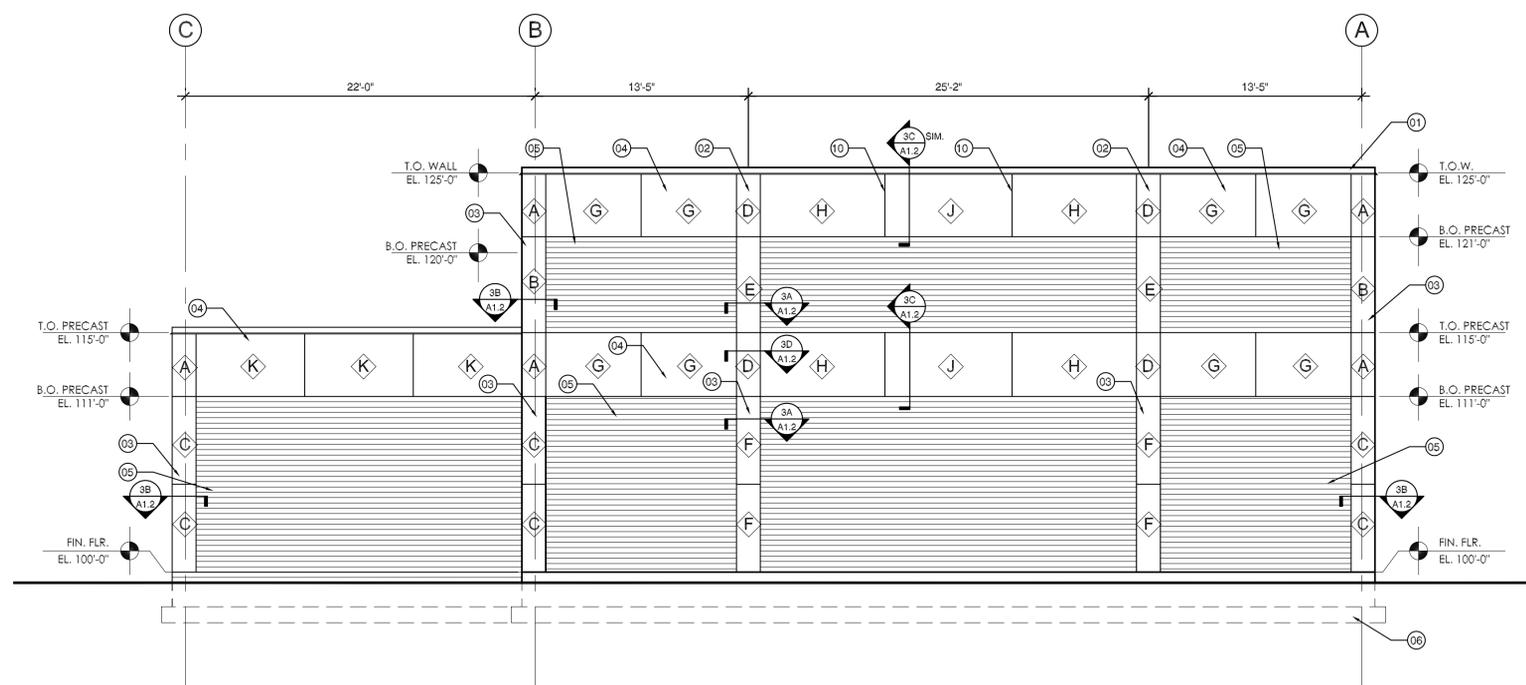
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	EXTERIOR ELEVATIONS
SHEET NO.	A3.1

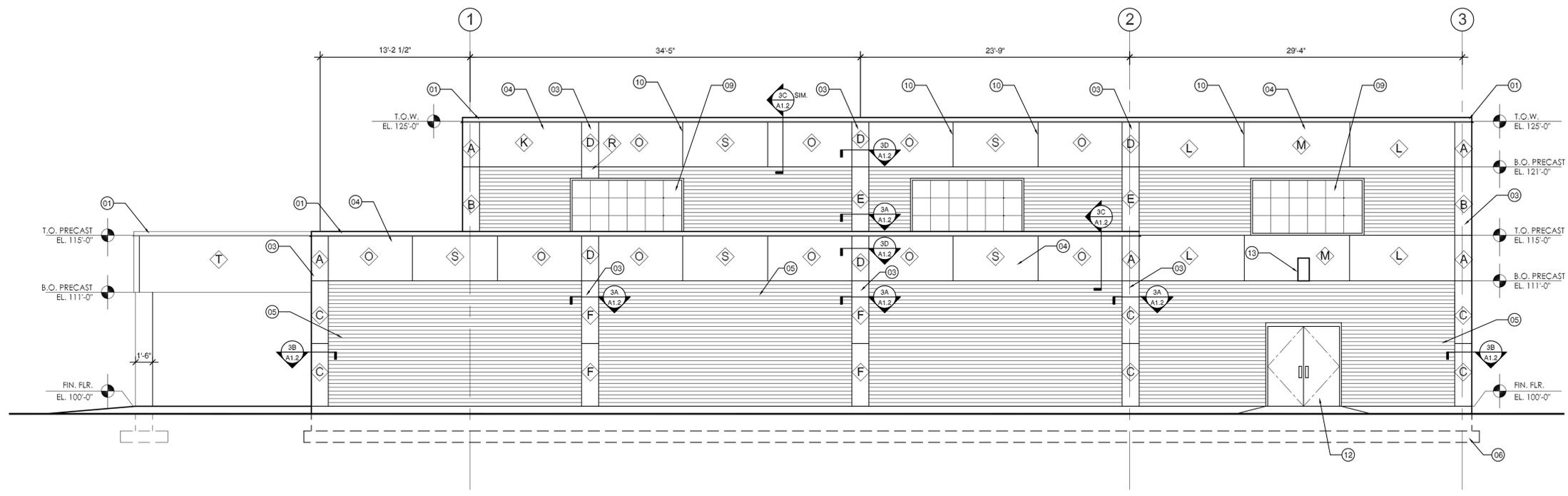
**A3.1**

27 Sep 2007 - 10:24am - S:\Current Jobs\SA-0627 Utah County Academy of Sciences Gym Addition\1-CD's cad\Arch\A3.1 Exterior Elevations.dwg

Copyright © 2006, Sandstrom Associates Architecture, P.C.



NORTH ELEVATION  
SCALE: 3/16" = 1'-0" 2



EAST ELEVATION  
SCALE: 3/16" = 1'-0" 1

SHEET NOTES

01. PRE-FINISHED METAL CAP FLASHING AND DRIP EDGE. COLOR TO MATCH ALUMINUM STOREFRONT SYSTEM.
02. PRECAST CONCRETE COLUMN. SEE SCHEDULE AND SPECS
03. PRECAST CONCRETE CORNER. SEE SCHEDULE AND SPECS
04. PRECAST CONCRETE PANEL. SEE SCHEDULE AND SPECS
05. BRICK VENEER. COLOR BY ARCHITECT.
06. CONCRETE FOOTINGS AND FOUNDATION WALL. SEE STRUCTURAL SHEETS.
07. DARK BRONZE, ALUMINUM STOREFRONT SYSTEM, SEE DOOR TYPES.
08. DARK BRONZE, ALUMINUM WINDOW SYSTEM, SEE WINDOW TYPES.
09. TRANSLUCENT WALL/WINDOW SYSTEM, SEE WINDOW TYPES.
10. EXPANSION JOINT.
11. APPROXIMATE LOCATION OF ROOF DRAIN, AND DOWNSPOUT BRASS SCUPPER. SEE PLUMBING, VERIFY W/ ARCHITECT FINAL LOCATION.
12. HOLLOW METAL INSULATED DOOR, COLOR TO MATCH ALUMINUM STOREFRONT SYSTEM, SEE DOOR SCHEDULE.
13. EXTERIOR WALL LIGHT FIXTURE, SEE ELECTRICAL.
14. ROOF LINE, SEE ROOF PLAN.
15. ALUMINUM NAME LETTERS 18" TALL AND 4" DEEP.
16. ALUMINUM NAME LETTERS 12" TALL AND 4" DEEP.
17. 18"x18" PRE-CAST COLUMN.

PRECAST SCHEDULE

- CORNERS
- A - 1'-6" X 4'-0"
  - B - 1'-6" X 6'-0"
  - C - 1'-6" X 5'-6"
- COLUMNS
- D - 1'-6" X 4'-0"
  - E - 1'-6" X 6'-0"
  - F - 1'-6" X 5'-6"
  - R - 1'-6" X 1'-0"
- PANELS
- G - 6'-0" X 4'-0"
  - H - 7'-10" X 4'-0"
  - J - 8'-0" X 4'-0"
  - K - 9'-0" X 4'-0"
  - L - 9'-3" X 4'-0"
  - M - 9'-4" X 4'-0"
  - N - 8'-10" X 4'-0"
  - O - 7'-5" X 4'-0"
  - P - 7'-11" X 4'-0"
  - Q - 10'-3" X 4'-0"
  - S - 7'-8" X 4'-0"
  - T - 11'-0" X 5'-0"
  - U - 24'-8" X 5'-0"

**sandstrom** associates  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801.229-0068 801.229-0089 Fax  
www.sandstromarchitecture.com

SEAL

LICENSED ARCHITECT  
STEPHEN ERIC SANDSTROM  
136606  
STATE OF UTAH

**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
 DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
 940 WEST 800 SOUTH, OREM UTAH 84058

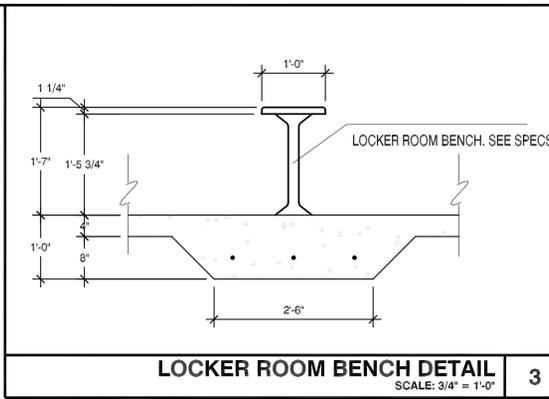
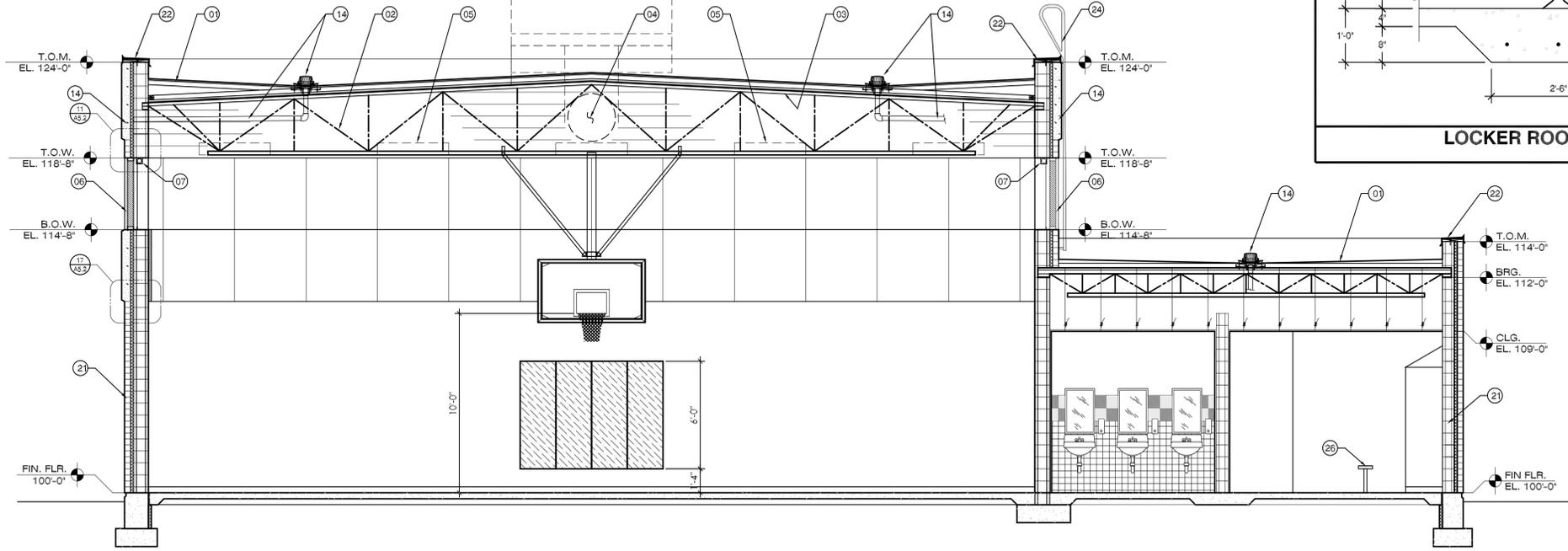
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	EXTERIOR ELEVATIONS
SHEET NO.	A3.2

27 Sep 2007 - 10:26am - S:\Current Jobs\SA-0627 Utah County Academy of Science Gym Addition\1-CDs cad\Arch\A3.1 Exterior Elevations.dwg

Copyright © 2006, Sandstrom Associates Architecture, P.C.

27 Sep 2007 - 10:27am - S:\Current Jobs\SA-0627 Utah County Academy of Science Gym Addition\1-CD's cad\Arch\A4.1 Building Sections.dwg



**LOCKER ROOM BENCH DETAIL**  
SCALE: 3/4" = 1'-0" **3**

**SHEET NOTES**

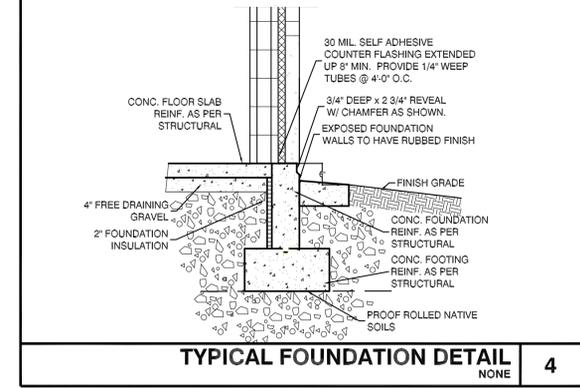
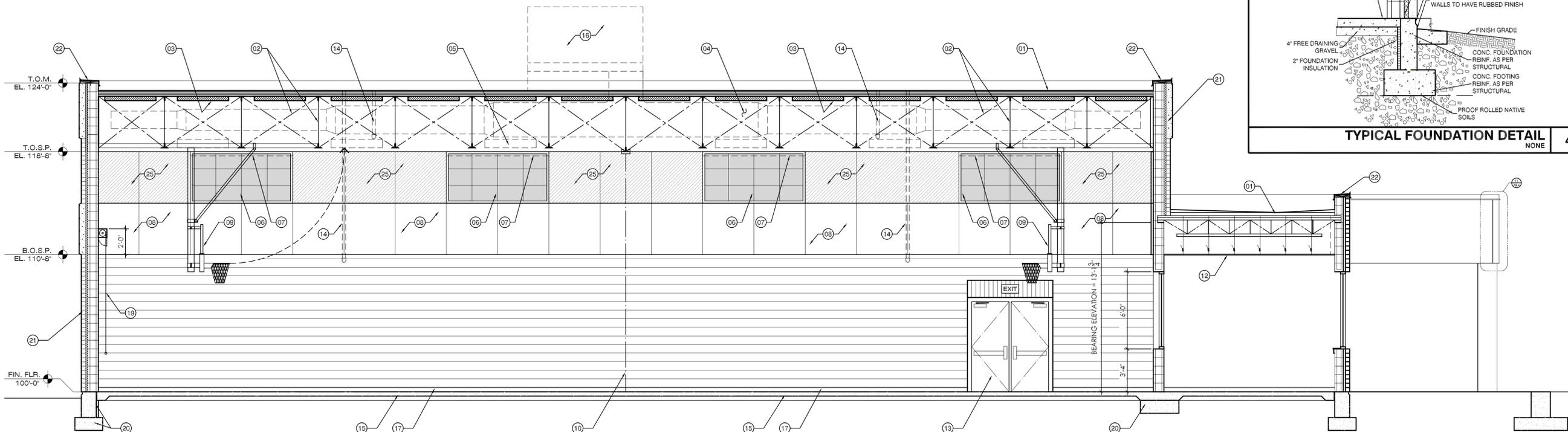
01. ROOF SYSTEM, SEE SPECS.
02. STEEL ROOFING JOIST AND BRACING, SEE STRUCTURAL.
03. 2'-0" x 4'-0" ACOUSTICAL PANEL, SEE SPECS.
04. MECHANICAL DUCT, SEE MECHANICAL.
05. ELECTRICAL FIXTURE, SEE ELECTRICAL.
06. 4'-0" x 8'-0" WINDOW PANEL.
07. MOTORIZED SHADING SYSTEM.
08. 4'-0" x 4'-0" ACOUSTICAL SOUND PANEL, FIELD COLOR, SEE INTERIOR ELEVATIONS.
09. VERTICAL FRONT DROP BASKETBALL BACKSTOP, ELECTRICALLY OPERATED, SEE SPECS.
10. ROLL-UP CURTAIN DIVIDER, ELECTRICALLY OPERATED, SEE SPECS.
11. WALL PADDING, SEE SPECS.
12. SUSPENDED CEILING PANELS, SEE REFLECTED CEILING PLAN.
13. HOLLOW METAL DOOR, SEE DOOR SCHEDULE.
14. APPROXIMATE LOCATION OF ROOF DRAIN AND DOWNSPOUTS SCUPPER, SEE PLUMBING SHEETS, VERIFY LOCATION WITH ARCHITECT.
15. CONCRETE SLAB AND MOISTURE BARRIER, SEE STRUCTURAL AND SOILS REPORT.
16. ROOF TOP UNIT, SEE MECHANICAL SHEETS.
17. 4" HIGH RUBBER BASE.
18. MILLWORK, SEE FURNISHING PLAN AND INTERIOR ELEVATIONS SHEET.
19. WALL MOUNTED SCREEN, SEE FURNISHING PLAN AND INTERIOR ELEVATIONS.
20. CONCRETE FOOTING AND FOUNDATION WALL, SEE STRUCTURAL SHEETS.
21. EXTERIOR WALL SYSTEM, SEE WALL TYPES IN SHEET A1.2.
22. METAL FLASHING TO BE PAINTED TO MATCH CONCRETE MASONRY BLOCK OR BRICK VENEER, SEE FLASHING DETAILS IN SHEET A2.3 ROOF DRAINAGE PLAN.
23. STEEL STRUCTURE TO BE PAINTED, VERIFY COLOR WITH ARCHITECT.
24. STEEL ACCESS LADDER, SEE DETAIL 9/A2.4.
25. 4'-0" x 4'-0" ACOUSTICAL SOUND PANEL, ACCENT COLOR, SEE INTERIOR ELEVATIONS.
26. LOCKER ROOM BENCH, SEE DETAIL 3/A4.1.

**sandstrom|associates**  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801.229.0088 801.229.0089 Fax  
www.sandstromarchitecture.com

SEAL

**BUILDING SECTION**  
SCALE: 1/4" = 1'-0" **2**



**TYPICAL FOUNDATION DETAIL**  
NONE **4**

**BUILDING SECTION**  
SCALE: 1/4" = 1'-0" **1**

**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**

DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

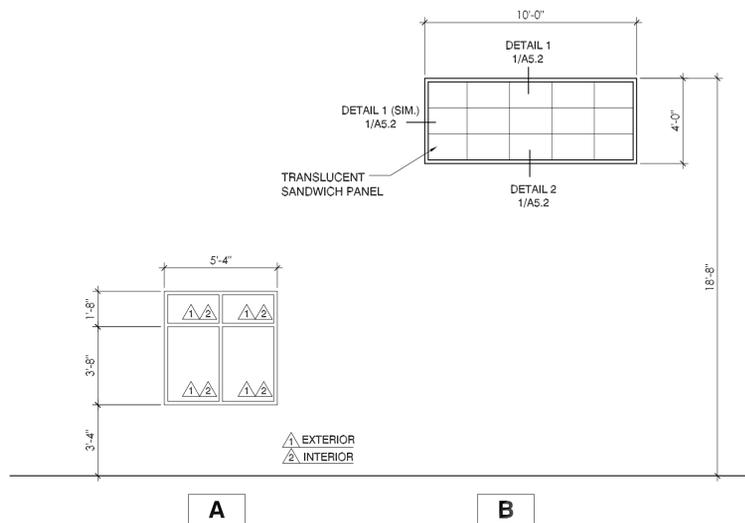
DATE	REVISION
NOV 17, 06	COST ESTIMATE SET

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	BUILDING SECTIONS
SHEET NO.	A4.1

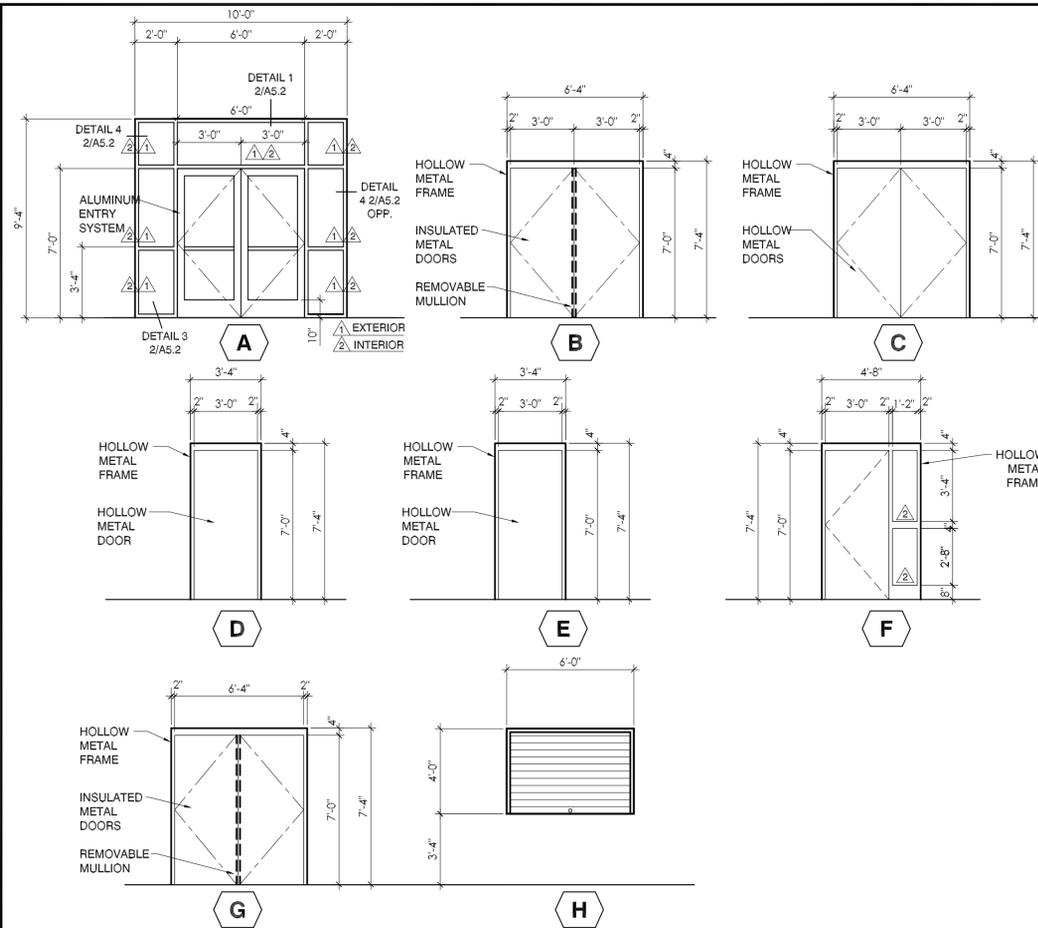
**A4.1**

Copyright © 2006, Sandstrom Associates Architecture, P.C.

27 Sep 2007 - 10:31am - S:\Current Jobs\0627 Utah County Academy of Science Gym Addition\1-CD's cad\Arch\A5.1 Door Schedule & Details.dwg



**WINDOW TYPES**  
SCALE: 1/4" = 1'-0" **3**



**DOOR & DOOR FRAME TYPES**  
SCALE: 1/4" = 1'-0" **4**

MARK	TYPE	DOOR SIZE			ASSEMBLY		HAND	MATERIAL	DETAILS AS.2		HARDWARE GROUP	LABEL	REMARKS	MARK
		WIDTH	HEIGHT	THICK	SINGLE	PAIR			HEAD	JAMB				
		3'-0" AS NOTED	7'-0" AS NOTED	1 3/4"										
101A	A	•	•	•	•	•	LH/RH	ALUM.	18	7.2 SIM	AL-01		INSULATED DOOR	101A
101B	A	•	•	•	•	•	LH/RH	ALUM.	12	7	AL-02			101B
102	F	•	•	•	•	•	RH	H.M.	5	8.1 SIM	06			102
103	D	•	•	•	•	•	RH	H.M.	5 SIM.	1 SIM.	05	(60)		103
104A	D	•	•	•	•	•	LH	H.M.	5 SIM.	6 SIM.	06			104A
104B	H	•	•	•	•	•		OVHD	STL		08			104B
104C	D	•	•	•	•	•	RHR	H.M.	18 SIM.	4	03		INSULATED DOOR	104C
105A	G	•	•	•	•	•	LH/RH	H.M.	18 SIM.	4	01		INSULATED DOOR	105A
105B	D	•	•	•	•	•	LH/RH	H.M.	5 SIM.	6	09			105B
105C	B	•	•	•	•	•	LH/RH	H.M.	18 SIM.	4	01		INSULATED DOOR	105C
105D	D	•	•	•	•	•	LH	H.M.	5 SIM.	1.3	11			105D
106	C	•	•	•	•	•	LH/RH	H.M.	5 SIM.	1	04	(60)	MAGNETIC HOLDERS	106
107	B	•	•	•	•	•	RHR	H.M.	5 SIM.	1.6	07	(60)		107
108	B	•	•	•	•	•	RH	H.M.	5 SIM.	1.8	07			108
109	D	•	•	•	•	•	RH	H.M.	5 SIM.	1.3	10			109
110	D	•	•	•	•	•	RHR	H.M.	5 SIM.	6.8	07			110
111	D	•	•	•	•	•	LH	H.M.	5 SIM.	3.1	10			111
ACCESS DOOR		•	•	•	•	•		STEEL			08			ACCESS DOOR

**DOOR SCHEDULE** **1**

**GENERAL NOTES**

- A- REFER TO SPECIFICATIONS FOR HARDWARE REQUIREMENTS.
- B- ALL CLOSURES ARE TO BE SET IN ACCORDANCE WITH ADA REDUCED OPENING FORCE REQUIREMENTS. COMPLY WITH CURRENT ANSI STANDARD A117.1.
- C- KEYING TO BE VERIFIED BY OWNER.
- D- REFER TO SPECIFICATIONS FOR PAINTING REQUIREMENTS OF HOLLOW METAL DOORS AND FRAMES, AND PRE-FINISH REQUIREMENTS OF ALUMINUM WINDOWS AND STOREFRONT ENTRANCES.
- E- THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY DIMENSIONS OF ALL OPENINGS PRIOR TO THE FABRICATION OF HOLLOW METAL AND ALUMINUM FRAMES.
- F- ALL HOLLOW METAL FRAMES ARE TO BE GROUTED SOLID.
- G- IN ALL HEAD AND JAMB DETAILS, SEALANT SHALL BE APPLIED CONTINUOUS TO BOTH SIDES OF FRAME.
- H- SEE STRUCTURAL SHEETS FOR ALL MASONRY REINFORCING.
- J- ALL CLOSERS TO BE SET FOR 180 DEGREE SWING. NO EXCEPTIONS.
- K- FILL ALL VOIDS BETWEEN WINDOW SILL, HEAD, JAMB, & ROUGH OPENING FRAMING.
- L- STOREFRONT SYSTEM, SEE SPECIFICATIONS.

**GLAZING LEGEND**

- △ 1" TEMPERED LOW-E INSULATED GLAZING
- △ 1/4" FULLY TEMPERED SAFETY GLAZING (IMPACT RESISTANT), TO MEET CATEGORY II OF CPSC 16 CFR 1201.



845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com



**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
 DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
 940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS

PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	JDW
CHECKED BY	SES

**DOOR TYPES & SCHEDULE**

SHEET NO.

**A5.1**

Copyright © 2006, Sandstrom Associates Architecture, P.C.



sandstrom ASSOCIATES  
ARCHITECTURE, P.C.

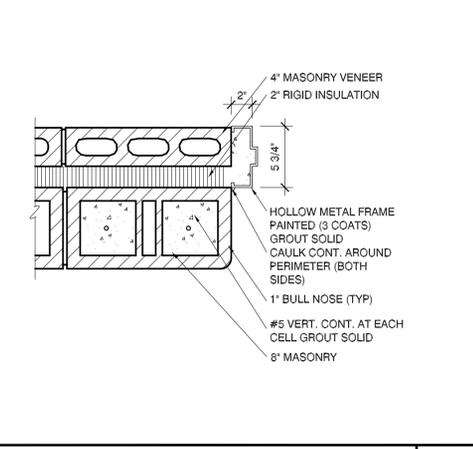
845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com



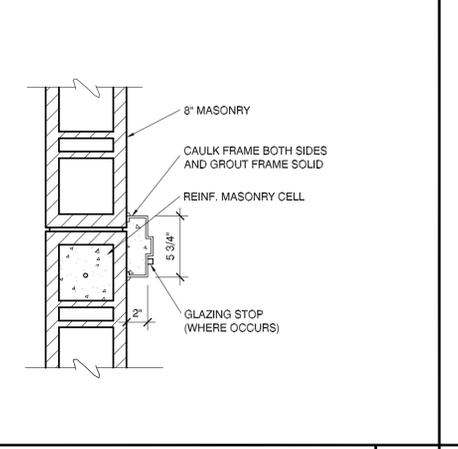
DESIGN DEVELOPMENT FOR:  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS
PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	DOOR & WINDOW DETAILS

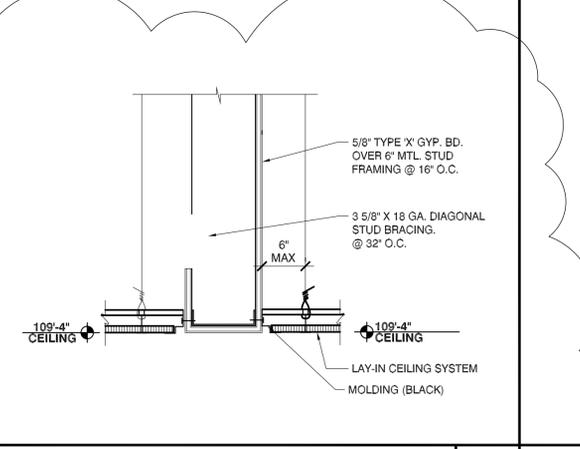
**A5.2**



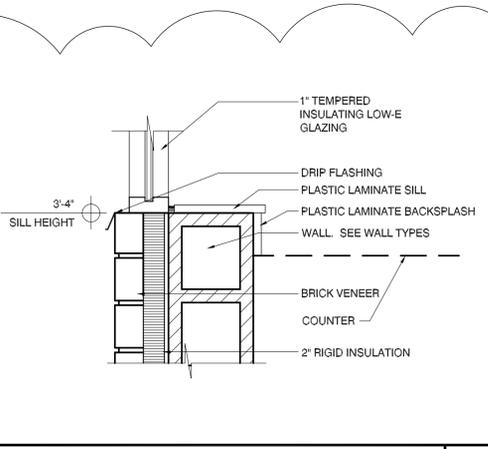
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **4**



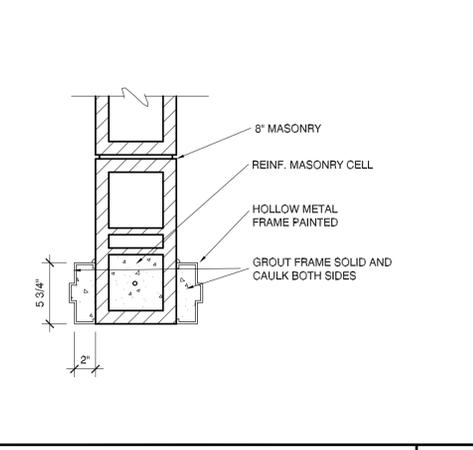
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **8**



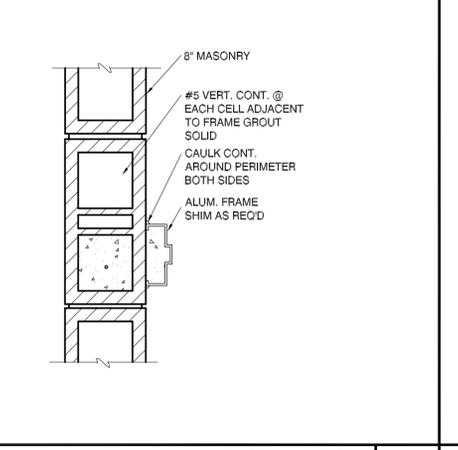
**HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0" **12**



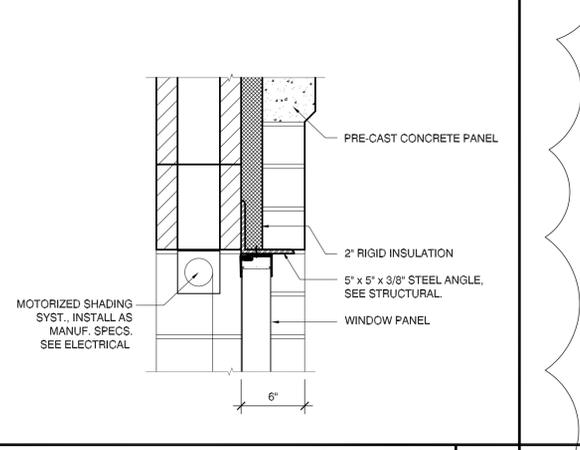
**SILL DETAIL**  
SCALE: 1 1/2" = 1'-0" **16**



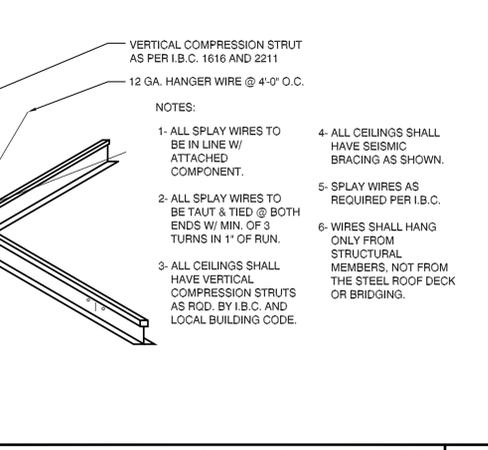
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **3**



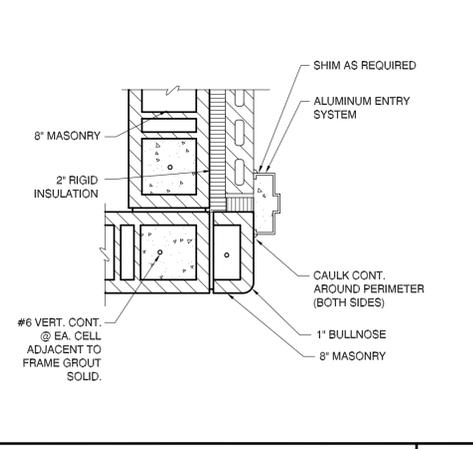
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **7**



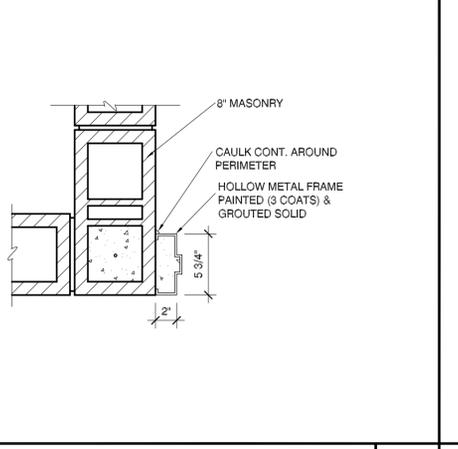
**MOTORIZED SHADE DETAIL**  
NO SCALE **11**



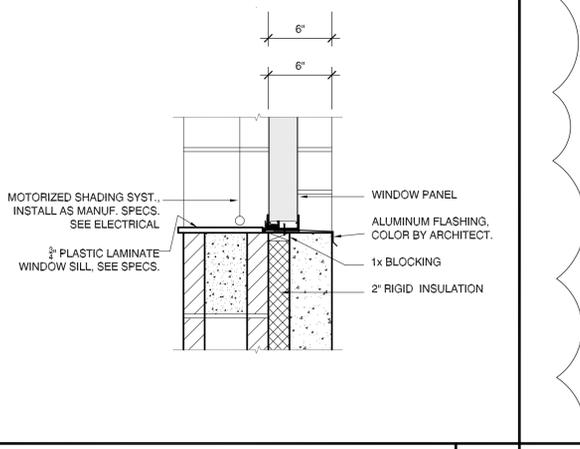
**SEISMIC BRACING DETAIL**  
SCALE: NONE **15**



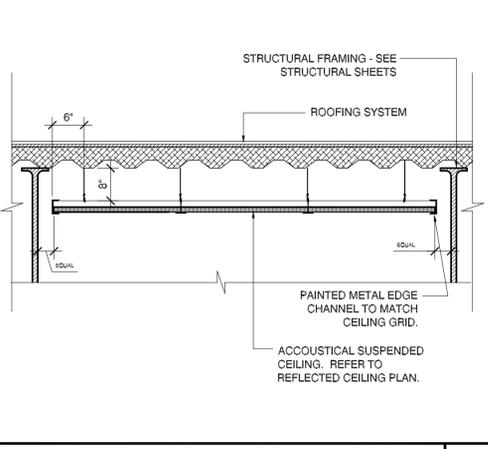
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **2**



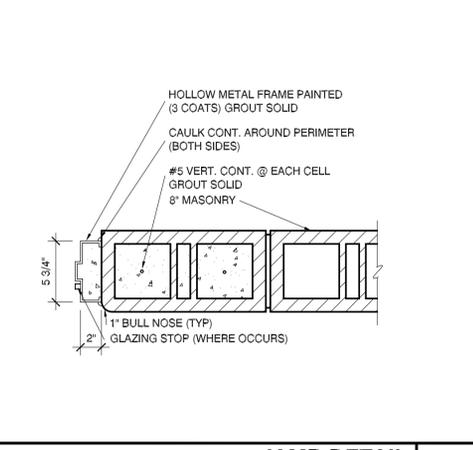
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **6**



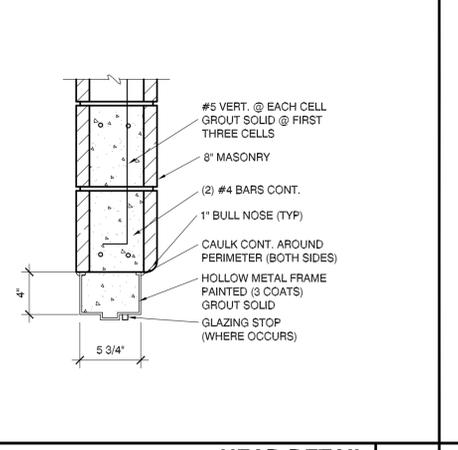
**SILL DETAIL**  
NO SCALE **10**



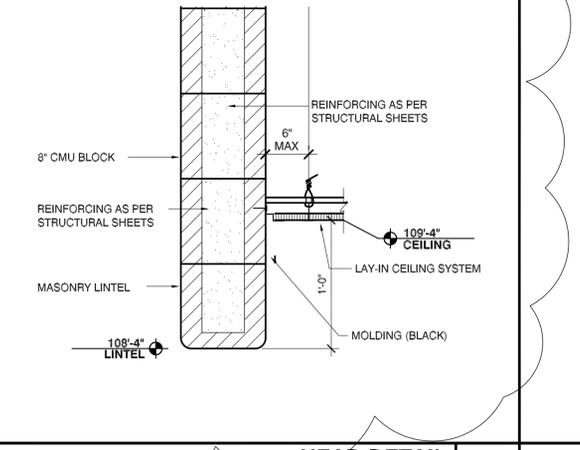
**ACOUSTICAL CEILING PANELS**  
SCALE: 3/4" = 1'-0" **14**



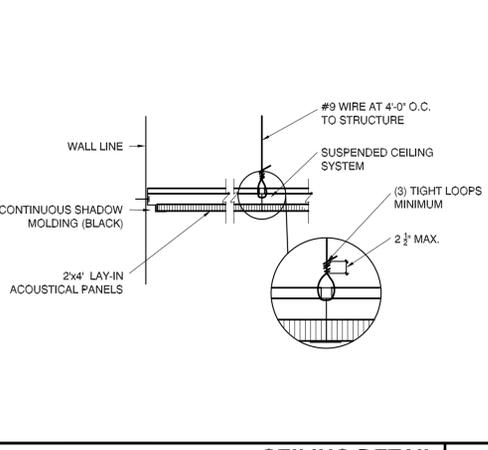
**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0" **1**



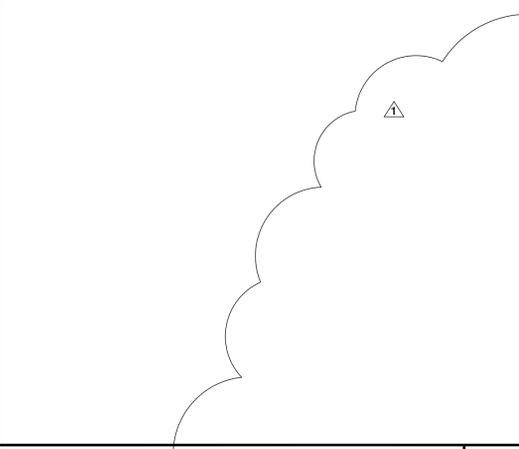
**HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0" **5**



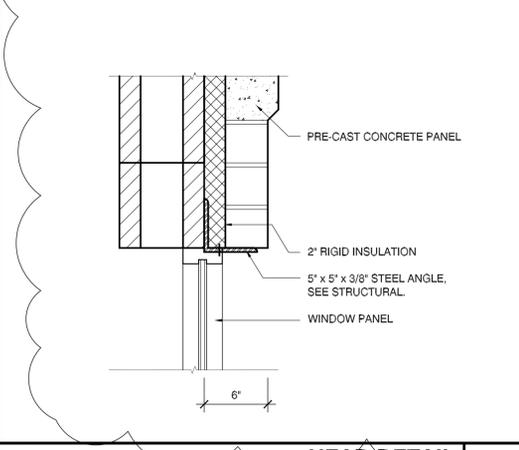
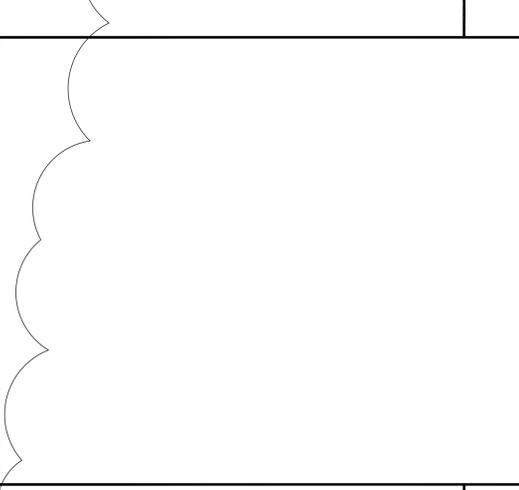
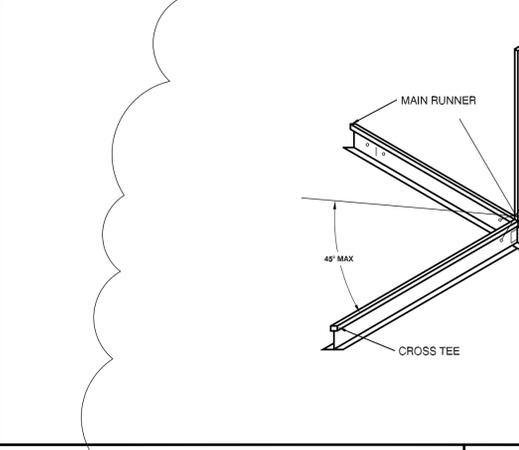
**HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0" **9**



**CEILING DETAIL**  
SCALE: 1 1/2" = 1'-0" **13**

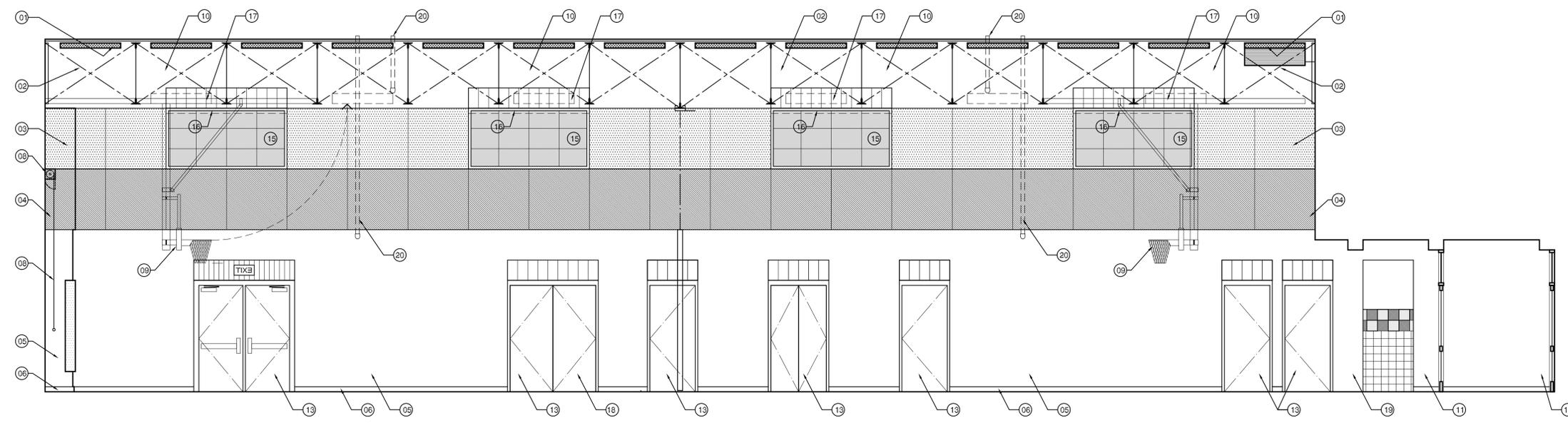


**HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0" **17**



27 Sep 2007 - 10:33am - S:\Current Jobs\SA\_0627 Utah County Academy of Science Gym Addition\1-CDs cad\Arch\A5.1 Door Schedule & Details.dwg

27 Sep 2007 - 10:37am - S:\Current Jobs\SA-0627 Utah County Academy of Science Gym-Addition\1-CDS cad\Arch\A6.1 INTERIOR ELEVATIONS.dwg

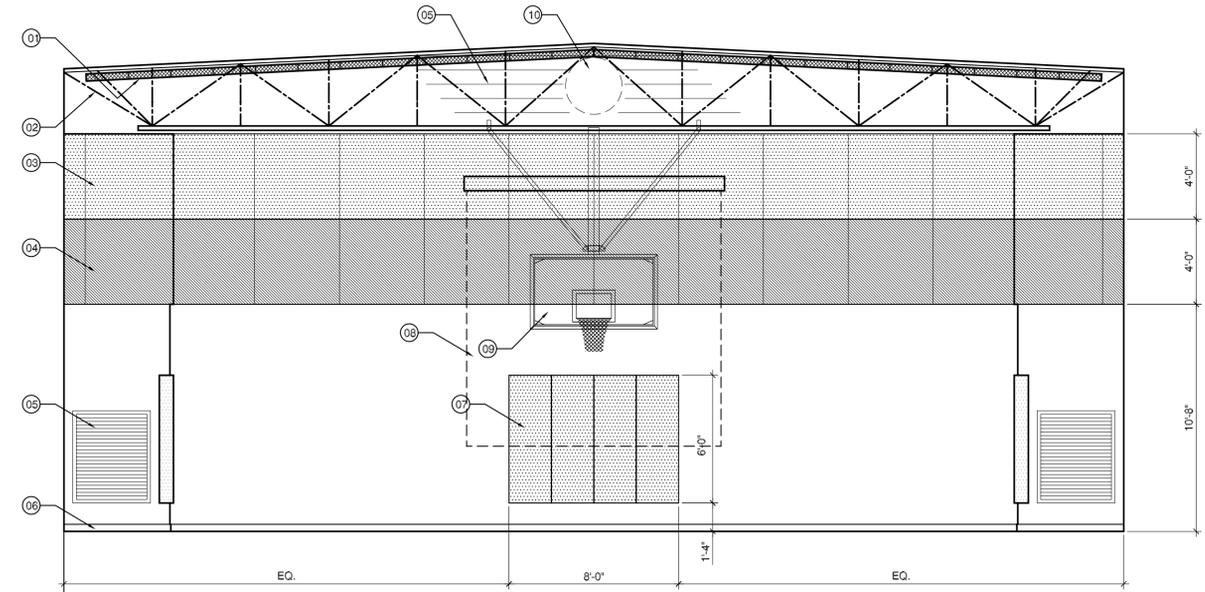
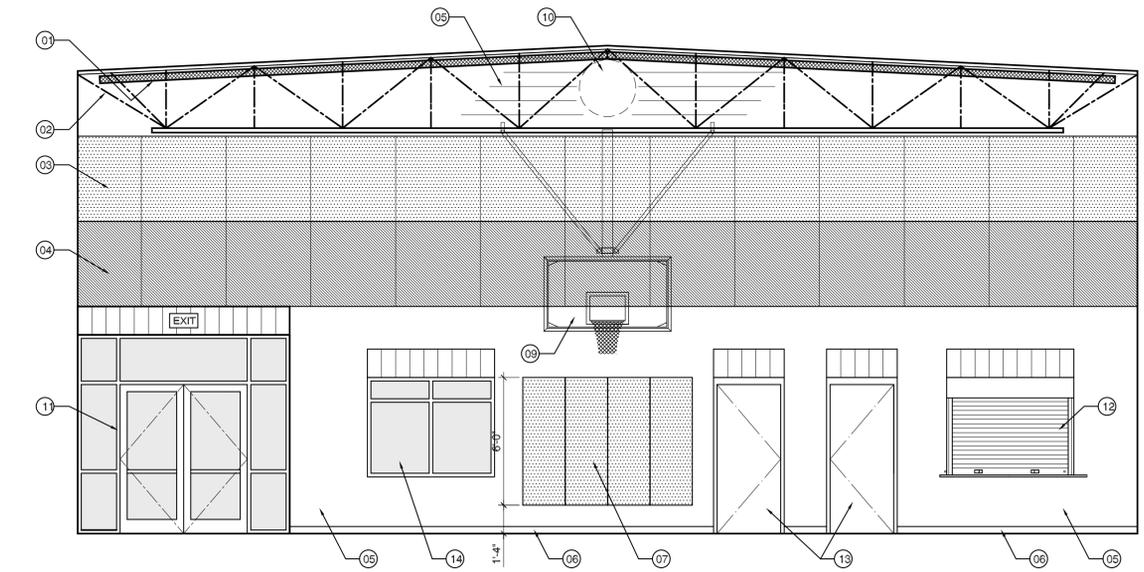
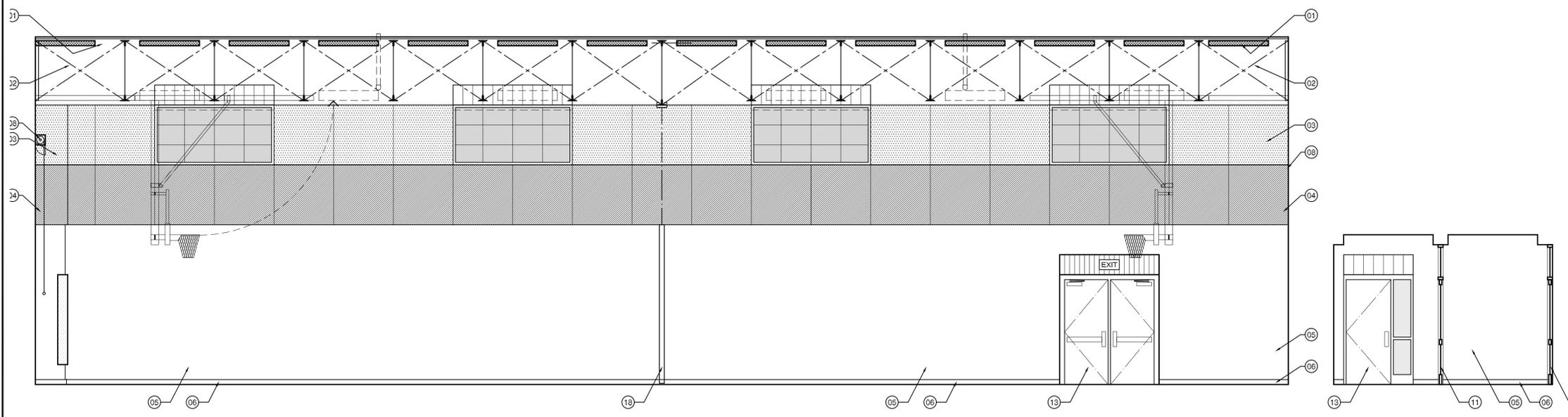


- ### SHEET NOTES
01. 2' x 4' SOUND PANELS. SEE REFLECTED CEILING PLAN.
  02. STEEL ROOF JOIST AND BRACING. TO BE PAINTED.
  03. 4' x 4' SOUND PANEL. FABRIC ACCENT COLOR.
  04. 4' x 4' SOUND PANEL. FABRIC FIELD COLOR.
  05. CONCRETE WALL. TO BE PAINTED. SEE SPECS.
  06. 4" HIGH RUBBER BASE.
  07. WALL PADDING. VERIFY COLOR WITH ARCHITECT.
  08. WALL MOUNTED PROJECTION SCREEN. SEE SPECS. INSTALL PER MANUFACTURER STANDARDS.
  09. BASKETBALL STOP. AT NORTH SIDE VERTICAL FRONT DROPPED. ELECTRICALLY OPERATED. AT SOUTH SIDE VERTICAL STATIONARY.
  10. EXPOSED MECHANICAL DUCT AND DIFFUSERS TO BE PAINTED.
  11. ALUMINUM STOREFRONT SYSTEM. SEE STOREFRONT TYPES. SHEET AS.1.
  12. OVERHEAD ROLL-UP COUNTER DOOR. CRANK OPERATED.
  13. HOLLOW METAL DOOR AND FRAME. TO BE PAINTED. VERIFY COLOR WITH ARCHITECT.
  14. HOLLOW METAL WINDOW FRAME. TO BE PAINTED. SEE WINDOW TYPES SHEET AS.1.
  15. WINDOW PANEL. SEE SPECS. AND WINDOW TYPES SHEET AS.1.
  16. MOTORIZED SHADING SYSTEM. SEE SPECS. AND ELECTRICAL SHEETS.
  17. LIGHT FIXTURE. SEE ELECTRICAL SHEETS.
  18. 50'-0" W x 18'-8" H (FIELD VERIFY), ROLL-UP CURTAIN (GYM DIVIDER). SOLID AND MESH CONFIGURATION. ELECTRICALLY OPERATED. SEE SHEET AS.1.
  19. CERAMIC TILE AT DRINKING FOUNTAIN ENCLOSURE.
  20. APPROXIMATE LOCATION OF ROOF DRAIN DOWNSPOUTS. SEE PLUMBING SHEETS. VERIFY WITH ARCHITECT LOCATION.



845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com

**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
 DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
 940 WEST 800 SOUTH, OREM UTAH 84058



**INTERIOR ELEVATIONS MULTI-PURPOSE ROOM # 114**  
SCALE: 1/4" = 1'-0" 1

DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	
<b>INTERIOR ELEVATIONS MULTI-PURPOSE RM. # 114</b>	
SHEET NO.	
<b>A6.1</b>	

Copyright © 2006, Sandstrom Associates Architecture, P.C.

27 Sep 2007 - 10:38am - S:\Current Jobs\SA-0627 Utah County Academy of Science Gym Addition\1-CDs cad\Arch\A6.1 INTERIOR ELEVATIONS.dwg

SHEET NOTES

01. BRACKET MOUNTED FIRE EXTINGUISHER.
02. TOILETS OR URINALS. SEE PLUMBING SCHEDULE. TOILET SEAT HEIGHT TO BE 17'-19". URINALS TO BE MOUNTED AT 17" MAX AFF.
03. 42" GRAB BAR TO BE MOUNTED AT 33" AFF. 18" VERTICAL BAR TO BE MOUNTED 39" FROM THE BACK WALL AND 39" AFF.
04. SOAP DISPENSER (NIC).
05. TOILET PAPER DISPENSER (NIC).
06. REFRIGERATOR / FREEZER.
07. WINDOW. SEE WINDOW TYPES.
08. SINK TO BE MOUNTED AT 34" AFF. SEE PLUMBING SCHEDULE.
09. BASE. SEE FURNISHINGS.
10. WALL. SEE FURNISHINGS PLAN.
11. DOOR. SEE DOOR SCHEDULE.
12. PLASTIC LAMINATE TOP.
13. 4" PLASTIC LAMINATE BACKSPASH.
14. DOUBLE TIER LOCKERS.
15. 20" X 30" MIRROR, MOUNTED ABOVE SINK FIXTURE. NOT TO EXCEED 40" AFF.
16. CERAMIC WALL TILE. SEE FURNISHING SCHEDULE. (ACCENT AS INDICATED BY SHADING).
17. ARCHITECTURAL MILLWORK.
18. SANITARY NAPKIN WASTE RECEPTACLE. SEE SPECS.
19. SOLID PHENOLIC TOILET COMPARTMENTS.
20. PAPER TOWEL/ WASTE RECEPTICAL. NIC.
21. DASHED LINE INDICATES ACCESSIBLE AREAS, TURN AROUND, ETC.
22. FOLDING HANDICAP SHOWER SEAT.
23. STAINLESS STEEL TOWEL/ROBE HOOKS. SEE SPECS.
24. LOCKER BENCH. SEE SPECS.
25. RANGE. (NIC)
26. SLOPE TO DRAIN. SEE PLUMBING SHEETS.
27. MEN'S AND WOMEN'S RESTROOM SIGNS. SEE DETAIL 3/A1.3.
28. CONTROLS AND HAND FIXTURE TO BE MOUNTED BETWEEN 38" - 48" O.F.F. AND WITHIN 15" LEFT OR RIGHT OF CENTERLINE OF SEAT.



**sandstrom|associates**  
ARCHITECTURE, P.C.

845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com

SEAL

**DESIGN DEVELOPMENT FOR:  
UTAH VALLEY STATE COLLEGE  
UCAS MULTI-PURPOSE BUILDING**

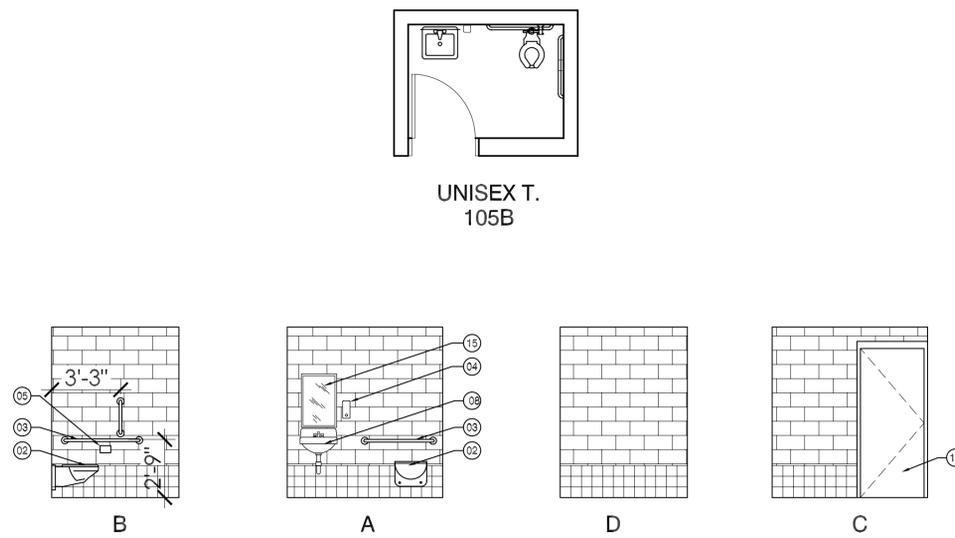
DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
940 WEST 800 SOUTH, OREM UTAH 84058

DATE	REVISION
NOV 17, 06	COST ESTIMATE SET
AUG 03, 07	IBC CORRECTIONS

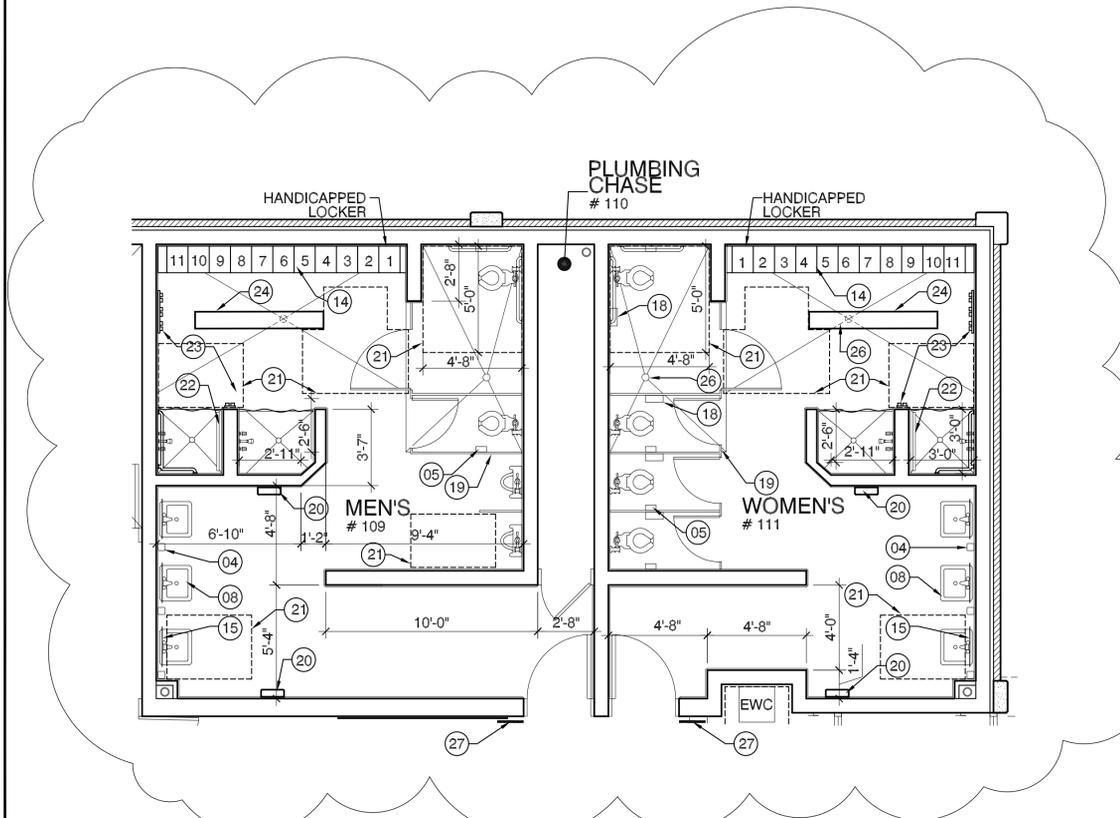
PROJECT NO.	SA-0627
DATE	SEP 15, 06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	<b>INTERIOR ELEVATIONS MULTI-PURPOSE RM. # 114</b>
SHEET NO.	

**A6.2**

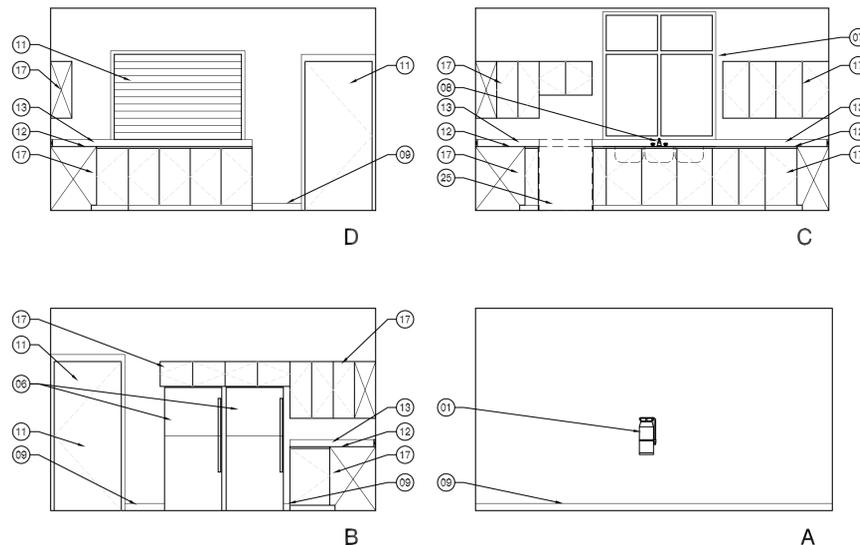
PRINTED: 27 Sep 2007 - 10:38am



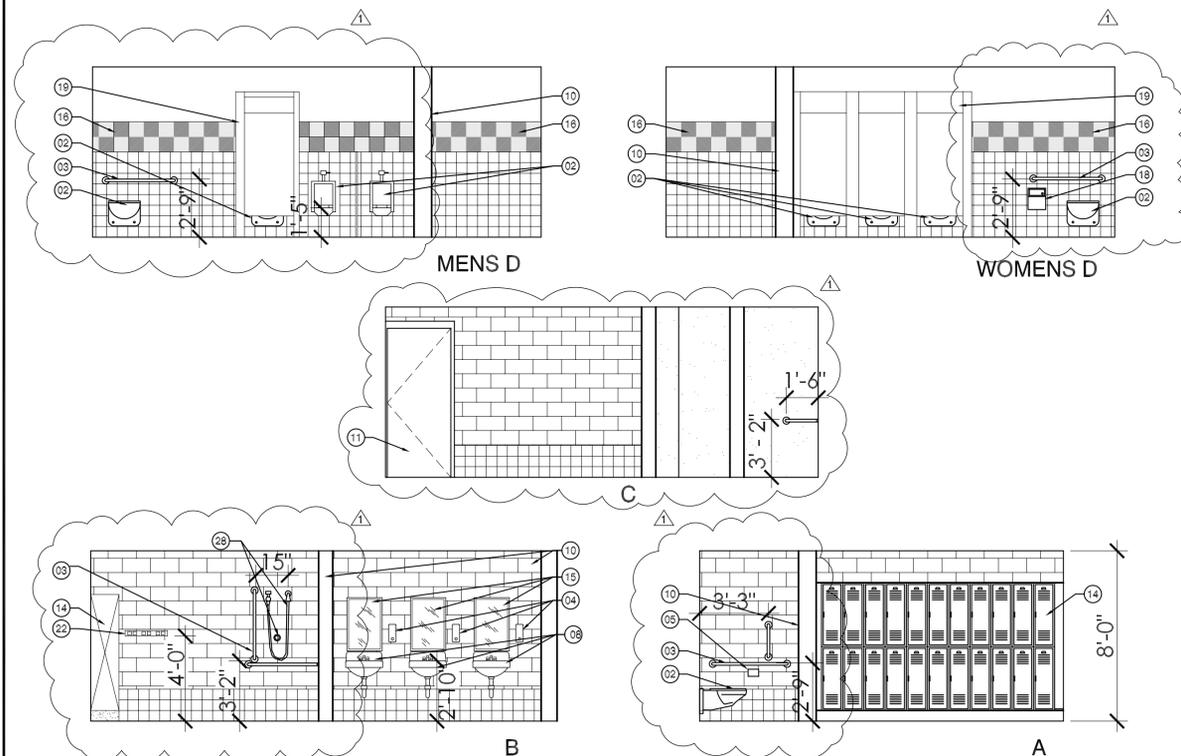
**UNISEX TOILET ELEVATIONS AND PLAN**  
SCALE: 1/4" = 1'-0" **4**



**RESTROOMS AND CHASE #109, #110, #111**  
SCALE: 1/2" = 1'-0" **3**



**INTERIOR ELEVATIONS SERVICE # 104**  
SCALE: 1/4" = 1'-0" **2**



**INTERIOR ELEVATIONS BATHROOMS # 109, 111**  
SCALE: 1/4" = 1'-0" **1**

Copyright © 2006, Sandstrom Associates Architecture, P.C.

# STRUCTURAL GENERAL NOTES

SHEET INDEX	
SHT #	SHEET NAME
91.1	STRUCTURAL GENERAL NOTES
92.1	FOUNDATION PLAN
93.1	LOW ROOF FRAMING PLAN
93.2	HIGH ROOF FRAMING PLAN
93.3	ROOF SNOW DRIFT & DIAPHRAGM PLAN
94.1	STRUCTURAL FOUNDATION DETAILS
95.1	STRUCTURAL FRAMING DETAILS
95.2	STRUCTURAL FRAMING DETAILS



845 South 220 East  
Orem, UT 84058  
801.229-0088 801.229-0089 Fax  
www.sandstromarchitecture.com

## A. GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON DRAWINGS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODE:  
THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
  - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
  - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
  - SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFER, GROOVES, INSERTS, ETC.
  - SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
  - FLOOR AND ROOF FINISHES.
  - STAIR FRAMING AND DETAILS (EXCEPT AS SHOWN).
  - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
  - PIPE RUNS, SLEEVES, HANGER, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
  - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
  - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
  - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOUNTS.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- OPENINGS, POCKETS, ETC. LARGER THAN 6 INCHES SHALL NOT BE PLACED IN SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED ON STRUCTURAL MEMBERS.
- ASTM SPECIFICATIONS NOTED SHALL BE THE LATEST REVISION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR LINED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- | LIVE LOADS                             |         |
|--|---------|
| FLOOR LIVE LOAD                        | 100 PSF |
| ROOF LIVE LOAD                         | 20 PSF  |
| LIVE LOAD REDUCTION (WHERE APPLICABLE) | YES     |

SEISMIC	
SEISMIC IMPORTANCE FACTOR	1.25
SEISMIC OCCUPANCY CATEGORY	III
MAPPED SPECTRAL RESPONSE ACCELERATIONS	$S_g = 1.223$ AND $S_1 = 0.516$
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENT	$S_{DS} = 0.824$ AND $S_{D1} = 0.516$
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE RESISTING SYSTEMS	SPECIAL REINF. CMU WALLS
DESIGN BASE SHEAR	$C_s \times$ DEAD WEIGHT(W)
SEISMIC RESPONSE COEFFICIENTS, $C_d$	0.144
RESPONSE MODIFICATION FACTORS	$R = 5$
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

SPECIAL LOADS	
FLOOD LOAD	N.A. (OUTSIDE FLOOD HAZARD AREA)
OTHER SPECIAL LOADS	N.A.

**B. FOUNDATION**

1. FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE SOIL PRESSURE OF 1200 PSF. THE SOILS INVESTIGATION & REPORT WERE PERFORMED BY:  
RB&G ENGINEERING  
2007-019  
APRIL 30, 2007

2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF BULKHEADS AND OPENINGS, ETC.

3. CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.

4. FOOTINGS SHALL BE PLACED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

5. THE SOIL UNDER PERIMETER BEAMS AND SLAB SHALL BE NEAR OPTIMUM MOISTURE PRIOR TO CONCRETE PLACEMENT AND SHALL BE VERIFIED BY SOILS ENGINEER.

6. CONCRETE PLACEMENT SHALL BE IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE SPECIFIED AND SLAB SURFACE SHALL BE CURED WITH HUMTS COMPOUND OR EQUAL.

7. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE PER THE REQUIREMENTS OF THE PROJECT SOILS REPORT. FLOODING WILL NOT BE PERMITTED.

- C. CONCRETE**
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST APPROVED EDITION) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS.
  - REINFORCED CONCRETE DESIGN IS BY THE "ULTIMATE STRENGTH DESIGN METHOD", ACI 318-(LATEST EDITION).
  - SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES:
 

LOCATION IN STRUCTURE	STRENGTH PSI	TYPE
SLABS ON GRADE	4000	HARD ROCK
FOOTINGS	3000	HARD ROCK

 DESIGN BASED ON 2500 PSI, 28-DAY STRENGTH, THEREFORE, SPECIAL INSPECTION IS NOT REQUIRED.
  - CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL WITH THE FOLLOWING REQUIREMENTS:
    - COMPRESSIVE STRENGTH AT AGE 28 DAYS AS SPECIFIED ABOVE.
    - LARGE AGGREGATE-HARDROCK, 3/4" MAXIMUM SIZE CONFORMING TO ASTM C-33
    - CEMENT-ASTM C-150, TYPE II PORTLAND CEMENT,
    - MAXIMUM SLUMP 5-INCHES.
    - NO ADMIXTURES, EXCEPT FOR ENTRAINED AIR, AND AS APPROVED BY THE ENGINEER.
    - MAXIMUM WATER/CEMENT RATIO = 0.50
  - CONCRETE MIXING OPERATIONS, ETC, SHALL CONFORM TO ASTM C-94.
  - PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 614 AND PROJECT SPECIFICATIONS.
  - CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:  
CONCRETE POURED DIRECTLY AGAINST EARTH - 3 INCHES CLEAR STRUCTURAL SLABS - 3/4 INCHES CLEAR (TOP AND BOTTOM) FORMED CONCRETE WITH EARTH BACKFILL - 2 INCHES CLEAR
  - ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
  - PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
  - CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENING ARE PROVIDED.

SNOW LOAD	
GROUND SNOW LOAD, $P_g$	43 PSF
ROOF SNOW LOAD	33 PSF
FLAT ROOF SNOW LOAD, $P_f$	33 PSF
SNOW EXPOSURE FACTOR, $C_e$	1.0
SNOW IMPORTANCE FACTOR, $I$	1.1
THERMAL FACTOR, $C_t$	1.0

WIND	
BASIC WIND SPEED	90 MPH
WIND IMPORTANCE FACTOR, $I_w$	1.15
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	$\pm 0.18$
COMPONENT & CLADDING	
ROOF	+10.0 PSF OR -28.2 PSF
WALL	+14.6 PSF OR -19.5 PSF

- MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-460, SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 8.5.1. OF ACI 318 FOR THE SPECIFIED 28-DAY STRENGTH.
- SHRINKAGE OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-157, SHALL NOT EXCEED 0.00040 INCHES/INCH.

## D. REINFORCING STEEL

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICH EVER IS GREATER.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- REBAR SPLICES ARE TO BE: CLASS "B".
- REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.

## E. CONCRETE & CLAY MASONRY (CMU & ATLAS BLOCK)

- CONCRETE MASONRY UNITS SHALL BE GRADE N-II UNITS, CONFORMING TO THE LATEST ASTM DESIGNATION C-90. ( $F'm = 2500$  PSI, SPECIAL INSPECTION IS REQUIRED)
  - CLAY MASONRY UNITS SHALL BE GRADE SW UNITS, CONFORMING TO THE LATEST ASTM DESIGNATION C-90. ( $F'm = 4400$  PSI, SPECIAL INSPECTION IS REQUIRED)
- PORTLAND CEMENT SHALL CONFORM TO ASTM DESIGNATION C-150 & BE AS SPECIFIED FOR CONCRETE
- MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF I.B.C. TABLE 21-A, TYPE S, & PROJECT SPECIFICATIONS. MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
- GROUT SHALL CONFORM TO REQUIREMENTS OF SECTION 2103 OF I.B.C. FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF 3150 PSI AT 28 DAYS
- PROVIDE A MINIMUM OF 1/2" GROUT BETWEEN MAIN REINFORCING & MASONRY UNITS.
- LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 5 FEET.
- CELLS SHALL BE IN RUNNING BOND. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
- REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE & HEIGHT OF UNITS, LAYING PATTERN & JOINT TYPE.

## F. METAL DECKING

- STEEL DECKING SHALL BE MANUFACTURED BY VERO IN DEPTHS AND GAGES SHOWN ON THE STRUCTURAL DRAWING. EXCEPTION: ALTERNATE DECKING DESIGN & MANUFACTURER MAY BE USED WITH ENGINEERS APPROVAL. ALTERNATE DECKING DESIGN SHALL PROVIDE EQUIVALENT VERTICAL LOAD & SHEAR LOAD CAPACITY AS ORIGINAL DECKING DESIGN.
- THE GAGE AND ATTACHMENT OF THE DECK IS DESIGNED TO PROVIDE A DIAPHRAGM SHEAR CAPACITY IN ACCORDANCE WITH EVALUATION REPORT NO. 2078 OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS. OTHER ICBO APPROVED METHODS OF ATTACHMENT AND GAGE WILL BE ACCEPTABLE AS AN EQUAL IF THEY MEET THE DIAPHRAGM SHEAR CAPACITY AS DECKING DESIGN SHOWN ON STRUCTURAL DRAWINGS.
- ALL STEEL DECKING FINISH SHALL BE GALVANIZED G60.

## I. STRUCTURAL STEEL

- HOT-ROLLED STRUCTURAL STEEL SHAPES SHALL BE PER ASTM A992. GRADE 50 MIN. ( $f_y = 50$  ksi)
- STRUCTURAL STEEL PLATES SHALL BE PER ASTM A36 MIN. ( $f_y = 36$  ksi)
- STRUCTURAL TUBE STEEL SECTIONS SHALL BE PER ASTM A500 GRADE B MIN. ( $F_y = 46$  ksi)
- NUTS AND BOLTS IN STRUCTURAL STEEL CONNECTIONS SHALL BE PER ASTM A325N, WITH HARDENED WASHERS, AND SHALL BE 3/4" DIA. MIN. UNLESS NOTED OTHERWISE.
- ANCHOR BOLTS SHALL BE PER ASTM A307, U.N.O.
- WELDS SHALL BE BY E70XX, LOW HYDROGEN ELECTRODES. WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN A SHOP APPROVED BY THE BUILDING OFFICIAL.
- ALL STEEL SHALL BE PROPERLY PRIMED AND PAINTED SEE ARCHITECTURAL FOR COLOR.
- ALL STEEL BEAMS SHALL HAVE WEB STIFFENERS ON BOTH SIDES AT ALL BEARING LOCATIONS, AND AT CONCENTRATED LOADS WEB STIFFENER SHALL BE SAME THICKNESS AS WEB OF BEAM TYPICAL UNLESS NOTED OTHERWISE
- ALL STEEL BEAMS SUPPORTING CONCRETE SHALL HAVE A SINGLE ROW OF 3/4" DIA. STUDS @ 18" O.C. MIN. UNLESS NOTED OTHERWISE. USE 3" LONG STUDS AT 5" TOTAL SLAB DEPTH AND 4 1/2" LONG STUDS AT 6 1/2" TOTAL SLAB DEPTH

- STEEL DETAILER SHALL PROVIDE STANDARD STAIR DETAILING INCORPORATING C12x20.7 STRINGERS OR APPROVED EQUAL SUBMIT SHOP DRAWINGS FOR APPROVAL.
- ANY CONNECTIONS NOT DETAILED ON PLANS SHALL BE PROVIDED BY STEEL DETAILER AND SUBMITTED TO ENGINEER FOR APPROVAL
- NUMBERS IN PARENTHESIS AT BEAM CALL OUTS INDICATE REQUIRED NUMBER OF 3/4" DIA. STUDS. USE 3" LONG STUDS AT 5" TOTAL SLAB DEPTH AND 4 1/2" LONG STUDS AT 6 1/2" TOTAL SLAB DEPTH
- BEAM CALL OUTS INCLUDING "C=" INDICATES TOTAL AMOUNT OF REQUIRED BEAM CAMBER.
- ALL STEEL JOIST REQUIREMENTS AND DETAILS SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE AND MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
- ALL JOISTS WITH TOTAL LOAD/LIVE LOAD DESIGNATION ARE TO BE DESIGNED BY SUPPLIER WITH ALL LOADS SHOWN ON DRAWINGS.
- JOIST BRIDGING, BRACING, ETC. SHALL BE PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

## J. OPEN WEB STEEL JOIST

- PROVIDE JOISTS FABRICATED IN COMPLIANCE WITH STEEL JOIST INSTITUTE (SJI) "STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS."
- LIMIT LL DEFLECTION TO L/360 AND TL DEFLECTION TO L/240. BRIDGING: PROVIDE HORIZONTAL OR DIAGONAL TYPE BRIDGING FOR JOISTS COMPLYING WITH SJI "SPECIFICATIONS."
- PROVIDE BRIDGING ANCHORS FOR ENDS OF BRIDGING LINES TERMINATING AT WALLS OR BEAMS.
- END ANCHORAGE: PROVIDE END ANCHORAGE'S TO SECURE JOISTS TO ADJACENT CONSTRUCTION, COMPLYING WITH SJI "SPECIFICATIONS."
- ALL JOISTS SHALL BE SHOP PAINTED. REMOVE LOOSE SCALE, HEAVY RUST, AND OTHER FOREIGN MATERIALS FROM FABRICATED JOISTS AND ACCESSORIES BEFORE APPLICATION OF SHOP PAINT.
- PROVIDE TEMPORARY BRIDGING, CONNECTIONS, AND ANCHORS TO ENSURE LATERAL STABILITY DURING CONSTRUCTION.
- WHERE JOIST LENGTHS ARE 36 FEET AND LONGER, INSTALL A CENTER ROW OF BOLTED BRIDGING TO PROVIDE LATERAL STABILITY BEFORE SLACKENING OF HOISTING LINES.
- BRIDGING: INSTALL BRIDGING SIMULTANEOUSLY WITH JOIST ERECTION, BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF BRIDGING LINES AT TOP AND BOTTOM CHORDS WHERE TERMINATING AT WALLS OR BEAMS.
- WELD JOISTS TO SUPPORTING STEEL FRAMEWORK WHERE INDICATED IN ACCORDANCE WITH SJI "SPECIFICATIONS" FOR TYPE OF JOISTS USED. COORDINATE WELDING SEQUENCE AND PROCEDURE WITH PLACING OF JOISTS.

## K. SHOP DRAWINGS

- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
- THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED FOR REVIEW.
- VERIFY ALL DIMENSIONS WITH ARCHITECT.
- ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE RED-LINED OR FLAGGED BY SUBMITTING PARTIES, SHALL BE CONSIDERED APPROVED AFTER ENGINEERS REVIEW, U.N.O.
- THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO THE ORIGINAL DRAWINGS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.
- THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWING.
- THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.
- REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

## L. SPECIAL INSPECTIONS

- PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE BELOW NOTED SECTION OF THE 2006 INTERNATIONAL BUILDING CODE FOR THE ITEMS SHOWN BELOW.
- WHERE SPECIAL INSPECTION IS REQUIRED, IT SHALL BE PERFORMED BY A REGISTERED DEPUTY INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE GOVERNING JURISDICTION. COPIES OF THE INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND ARCHITECT/ENGINEER FOR REVIEW.
- ITEMS REQUIRING SPECIAL INSPECTION:
 

INSPECTION	CODE SECTION
A. EPOXY GROUTED ANCHOR BOLTS	1704.13
B. DRAG TRUSS CONNECTIONS TO SHEAR WALLS (PERIODIC)	1707.3
C. STRUCTURAL STEEL WELDING (CONTINUOUS OR IN AN APPROVED SHOP)	1707.2
D. CMU (CONTINUOUS AND PERIODIC, LEVEL 1 IN TABLE 1704.5.1)	1704.5 & 1708.1
E. CONCRETE CONSTRUCTION	1704.4
F. ARCHITECTURAL COMPONENTS (PERIODIC)	1707.7

## M. STRUCTURAL OBSERVATIONS

- THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL FROM L.R. NELSON CONSULTING ENGINEERS, LLC TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1702 OF THE I.B.C.
- AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
- STRUCTURAL OBSERVER SHALL OBSERVE ROOF FRAMING TO CMU WALL CONNECTIONS (INCLUDING ROOF DIAPHRAGM CONNECTIONS) AND CHORD REINFORCING IN THE CMU WALL

## N. DEFERRED SUBMITTALS

- DEFERRED SUBMITTAL ITEMS MUST BE REVIEWED AND APPROVED BY OUR OFFICE PRIOR TO FABRICATION.
- ITEMS REQUIRING DEFERRED SUBMITTAL:
  - OPEN WEB STEEL TRUSS JOISTS
  - OPEN WEB STEEL GIRDER TRUSSES
  - PRECAST CONCRETE COLUMNS
  - PRECAST CONCRETE BEAMS

**RELEASED FOR:  
BUILDING DEPARTMENT SUBMITTAL**

**DATE: 6-22-07**

PROJECT NO.	SA-0627
DATE	SEP 15.06
DRAWN BY	AL
CHECKED BY	SES
SHEET DESCRIPTION	STRUCTURAL GENERAL NOTES
SHEET NO.	S1.1

<b>L. R. NELSON CONSULTING ENGINEERS, L.L.C.</b>	51 West 9000 South Sandy, Utah 84070 (801) 565-8580 (801) 565-9340 FAX
JOB #	U850-022-071

**DESIGN DEVELOPMENT FOR:**  
**UTAH VALLEY STATE COLLEGE**  
**UCAS MULTI-PURPOSE BUILDING**  
 DFCM PROJECT No. 06304790 / CONTRACT No. 077170  
 940 WEST 800 SOUTH, OREM UTAH 84058

