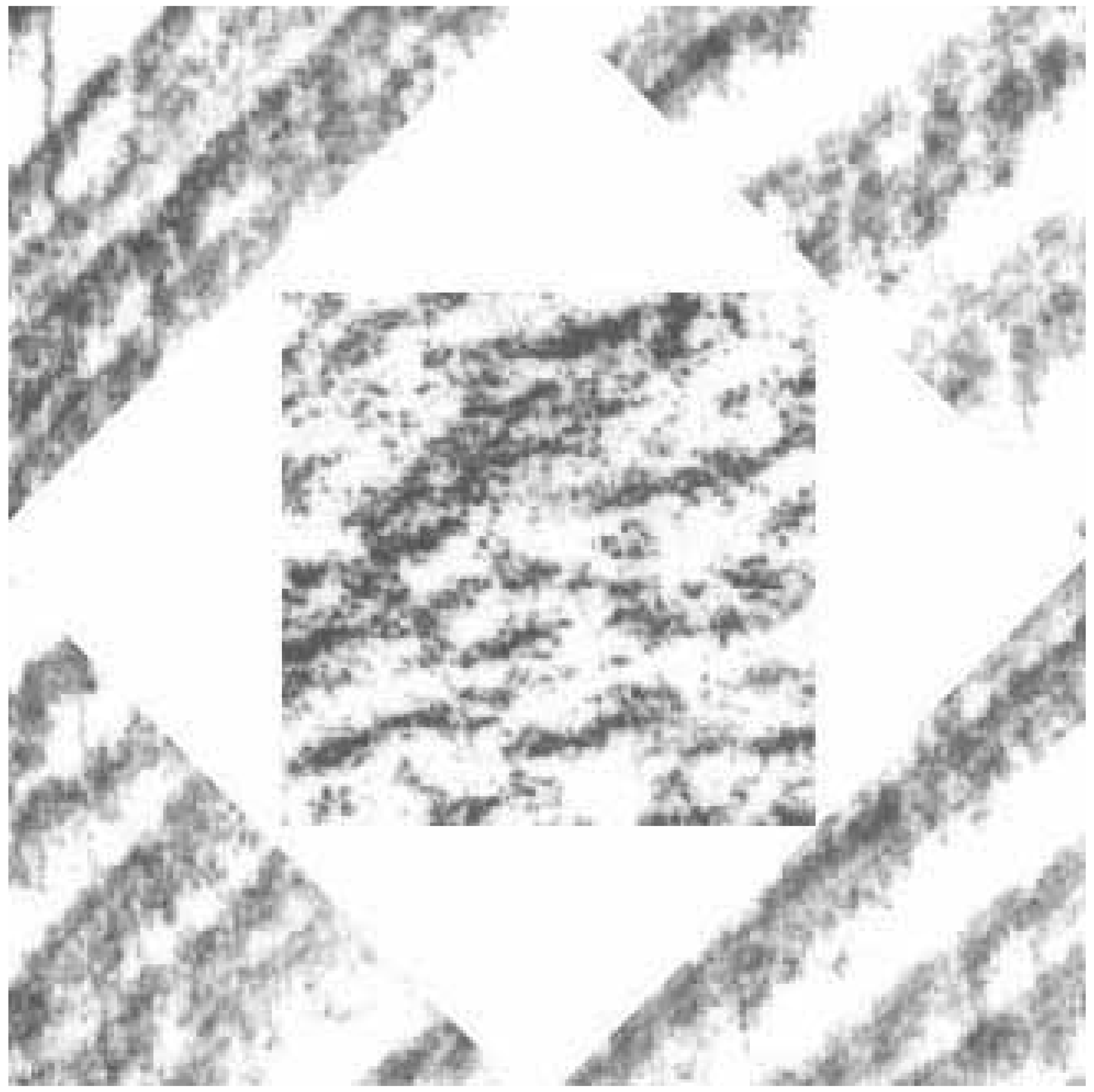


UTILITY TUNNEL EXTENSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

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

CODE ANALYSIS

APPLICABLE CODES

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

A. Occupancy and Group: U

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: N/A Design Wind Speed: N/A mph

C. Type of Construction (circle one): I A (circled), 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: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: N/A Nonseparated Uses: N/A

F. Sprinklers:

Required: N/A Provided: ______ Type of Sprinkler System: ______

G. Number of Stories: N/A Building Height: N/A

H. Actual Area per Floor (square feet): 4,680

I. Tabular Area: ______

J. Area Modifications:

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

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: N/A
2) Two Story: $A_a(2)$ N/A
3) Three Story: $A_a(3)$ N/A

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

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

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

L. Design Occupant Load: 0

Exit Width Required: 0 Exit Width Provided: 48"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) N/A (f) N/A Provided (m) N/A (f) N/A
b) Lavatories - Required (m) N/A (f) N/A Provided (m) N/A (f) N/A
c) Bath Tubs or Showers: N/A
d) Drinking Fountains: N/A Service Sinks: N/A

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.

DRAWING INDEX

ARCHITECTURAL DRAWINGS

GI001	COVER SHEET, GENERAL INFO, & SHEET INDEX
AS101	OVERALL CAMPUS SITE PLAN
AS102	ENLARGED SITE DEMOLITION PLANS & NEW SITE PLANS
AS501	TUNNEL SECTIONS & SITE DETAILS

LANDSCAPE DRAWINGS

L1.1	DEMOLITION & IRRIGATION & PLANTING PLANS & LANDSCAPE DETAILS

MECHANICAL DRAWINGS

MG001	MECHANICAL GENERAL NOTES & LEGEND
MD101	MECHANICAL DEMOLITION SITE PLAN
MD401	LARGE SCALE DEMOLITION PLANS, SECTIONS & ISOMETRICS
ME101	MECHANICAL SITE PLAN
ME102	MECHANICAL CAMPUS WIDE TUNNEL PLAN
ME401	LARGE SCALE PIPING PLANS, SECTIONS & ISOMETRICS
ME402	LARGE SCALE PIPING PLANS, SECTIONS, & ISOMETRICS
ME501	MECHANICAL DETAILS & SECHEDULES
ME502	MECHANICAL DETAILS

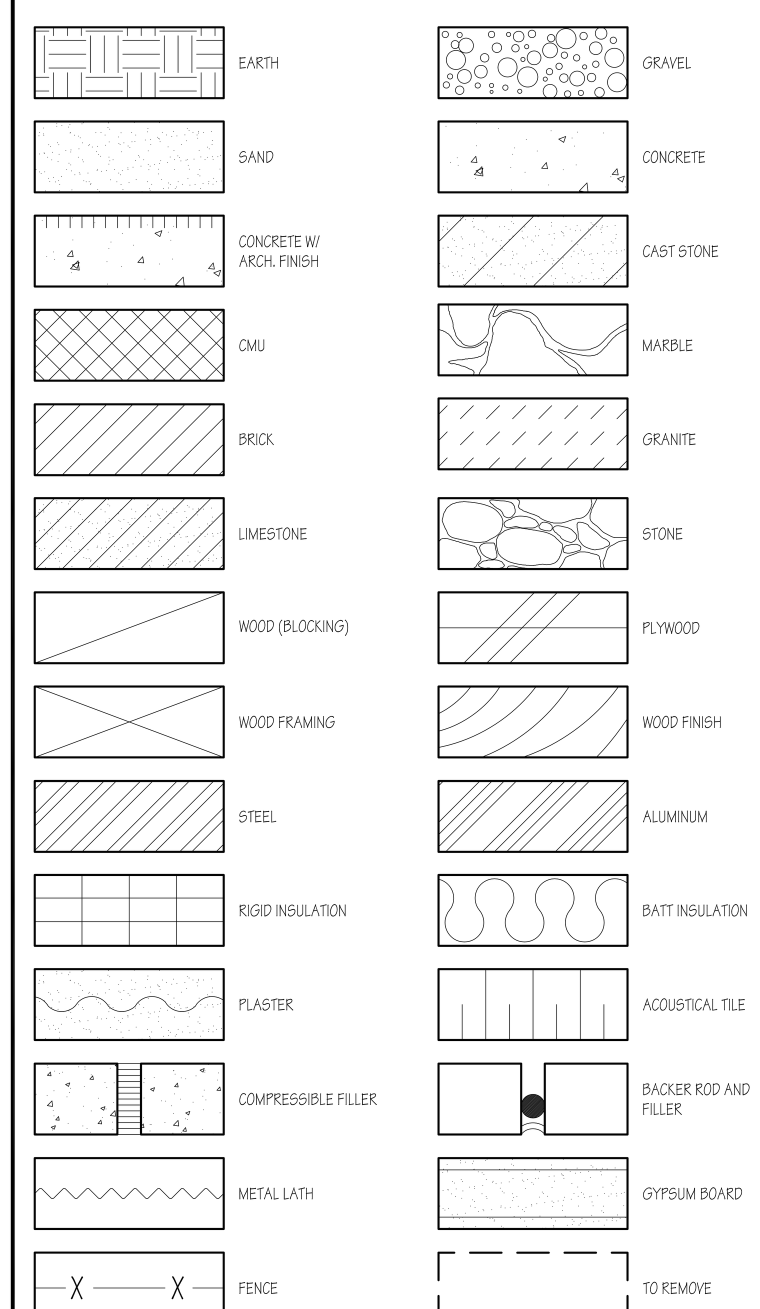
ELECTRICAL DRAWINGS

E-101	ELECTRICAL SITE & BUILDING PLANS
E-601	ONE-LINE DIAGRAM, DETAILS & SYMBOL LIST

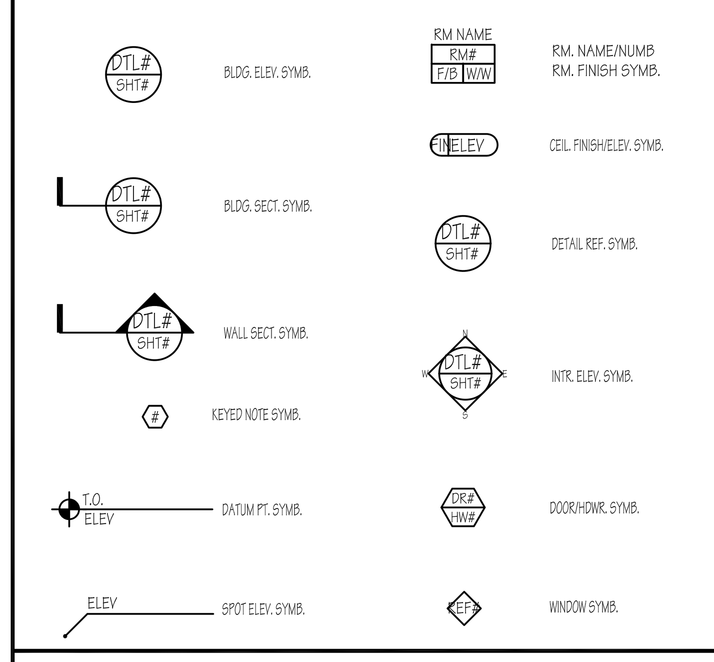
GENERAL ABBREVIATIONS

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

MATERIALS LEGEND



GRAPHIC SYMBOLS



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CONSULTANT

UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

DATE:	15 OCTOBER 2008
DFCM PROJECT NO:	08100600
HFSA PROJECT NO:	0825.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

COVER SHEET, SHEET INDEX, & GENERAL INFO

GI001

SHEET 1 OF 4

A3 OVERALL CAMPUS SITE PLAN
1"=100'-0"

N

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SHEET TITLE

OVERALL
CAMPUS
SITE PLAN

AS101

SHEET 2 OF 4

SITE PLAN KEYED NOTES

1. REPAIR THE CRACKS ON THE INTERIOR SIDE OF THE CONCRETE WALLS & CEILING OF THE TUNNEL WHICH ARE LEAKING AS FOLLOWS:
   1. COMPLETELY ROUT OUT FAULTY CONCRETE TO SOUND CONCRETE.
   2. REMOVE ALL THE LOOSE MATERIAL & SATURATE AREA WITH WATER. ALLOW SSUFFICIENT TIME FOR THE CONCRETE TO ABSORB THE WATER, THEN REMOVE ANY FREE-STANDING WATER.
   3. TO STOP THE FLOW OF WATER, FILL THE CAVITY TO SURFACE WITH XYPEX PATCHN PLUG. FOR LARGE CAVITIES, FIRST HANDRUB A LAYER OF PATCHN PLUG INTO THE CAVITY TO HELP 'KEYY' THE PATCH. LARGE PATCHES MAY REQUIRE THE ADDITION OF AGGREGATE TO THE PATCHN PLUG. FOR THE SIZE & AMOUNT OF AGGREGATE, PLEASE REFER TO THE PRODUCT DATA SHEET. WHERE INCREASED BONDING IS REQUIRED, USE SUITABLE BONDING AGENT.
   4. AFTER THE PATCH HAS SET, APPLY A SLURRY COAT OF XYPEX CONCENTRATE OVER REPAIRED AREA AT A COVERAGE OF 1.5 LB./SQ. YD. (0.8 KG/M2).
   5. CURE BY FOG SPRAYING PERIODICALLY WITH WATER FOR TWO DAYS OR APPLY XYPEX GAMMA CURE IMMEDIATELY AFTER THE SLURRY COAT HAS SET.
2. ALL PARKING LOT STRIPING DISTURBED BY CONSTRUCTION WILL BE REPLACED IN THE SAME PATTERN & COLOR. ALL CURB PAINTING DISTURBED BY CONSTRUCTION WILL BE RE-PAINTED.

SITE PLAN LEGEND

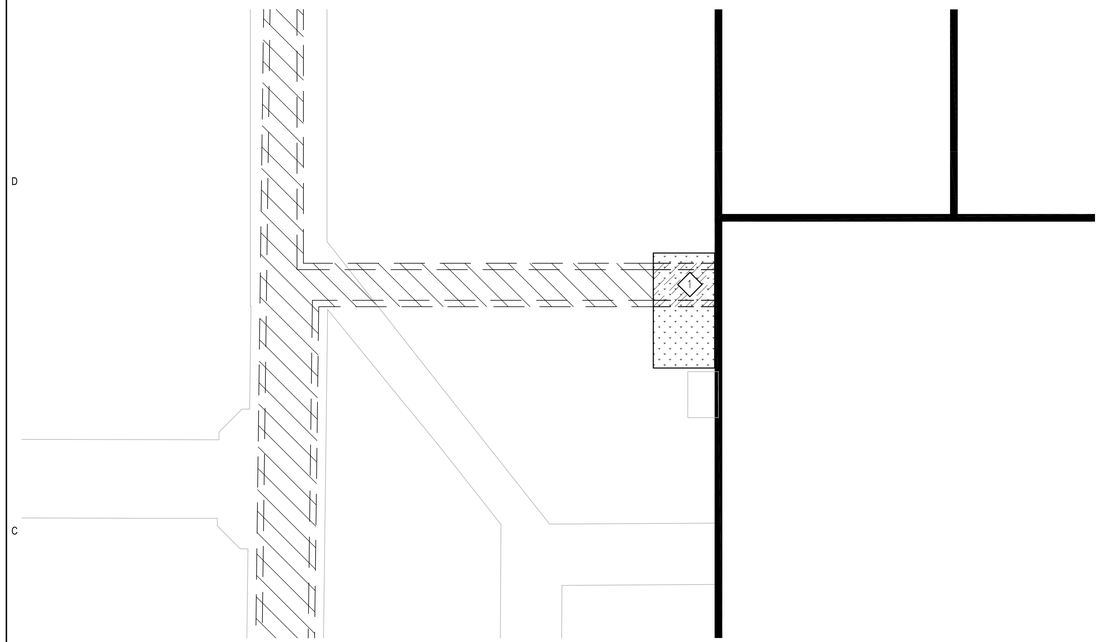
- NEW 3" ASPHALT PAVING & 8" ROAD BASE
- NEW CONCRETE SIDEWALK & BASE, SEE DETAIL D3/AS501
- NEW LANDSCAPING, SEE LANDSCAPE DRAWINGS
- EXCAVATED EXISTING UNDERGROUND TUNNEL, APPLY NEW WATERPROOF MEMBRANE CONTINUOUS BOTH EXTERIOR SIDES & TOP, SEE DETAIL D5/AS501
- EXISTING UNDERGROUND TUNNEL
- NEW CONCRETE CURB, SEE DETAIL D2/AS501
- REINSTALL EXISTING LIGHT POLE ON NEW CONCRETE BASE, SEE DETAIL D4/AS501

GENERAL NOTES

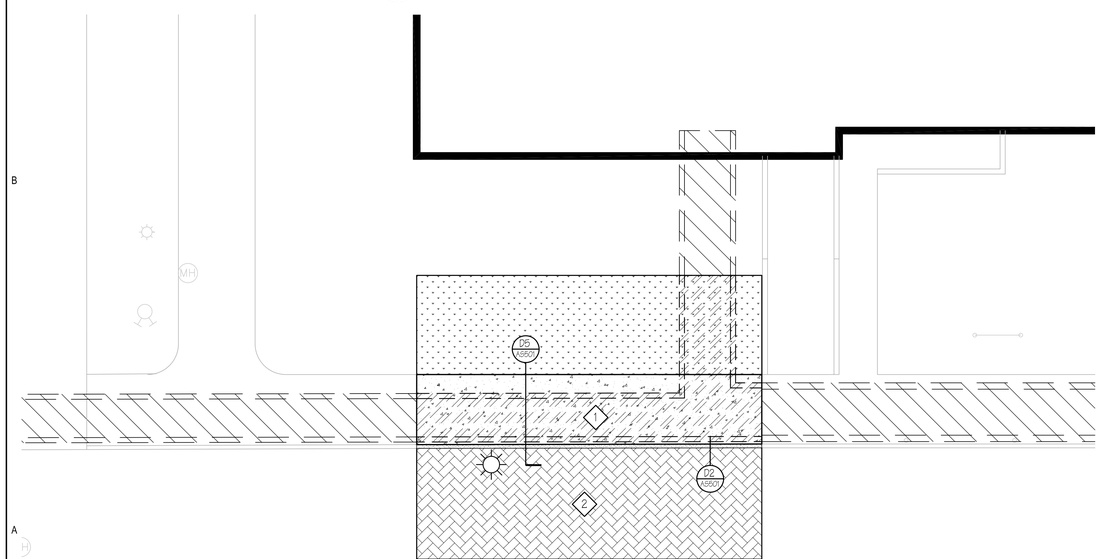
1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
2. PROTECT ALL AREAS & SURFACES ADJACENT TO DEMOLITION & CONSTRUCTION. PATCH & REPAIR ANY DAMAGE RESULTING FROM THE DEMOLITION OF EXISTING ITEMS OR THE CONSTRUCTION OF NEW ITEMS.
3. NOTED AREAS INDICATED THE GENERAL EXTENT OF DEMOLITION. THE CONTRACTOR'S CHOICE OF MEANS & METHODS OF CONSTRUCTION MAY REQUIRE MORE OR LESS DEMOLITION. THE MEANS & METHODS OF DEMOLITION & CONSTRUCTION MUST BE ACCOUNTED FOR IN THE CONTRACTORS BID. ANY DEMOLITION & REPAIR TO ADJACENT SURFACES BEYOND THE AREAS INDICATED IN THE CONTRACT DOCUMENTS WILL NOT BE COMPENSATED FOR AFTER THE BID OPENING.
4. 72-HOUR NOTICE IS REQUIRED FOR ANY UTILITY SHUT DOWN.

DEMOLITION PLAN LEGEND

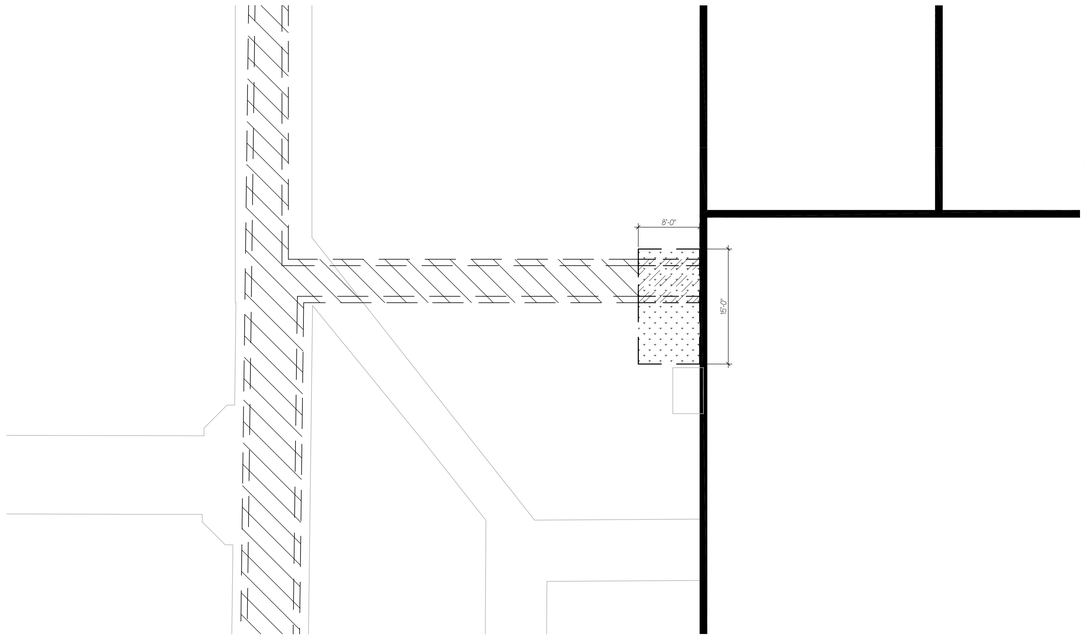
- EXISTING 3" ASPHALT PAVING & 8" ROAD BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT AREA TO BE REMOVED AS REQUIRED
- EXISTING CONCRETE SIDEWALK & BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT CONCRETE TO BE REMOVED BACK TO NEAREST EXISTING CONTROL/EXPANSION JOINT
- EXISTING LANDSCAPING & SOD TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION
- EXISTING CONCRETE TUNNEL TO BE EXPOSED, CAREFULLY EXCAVATE ENTIRE DEPTH, REMOVE EXISTING WATERPROOF MEMBRANE & BEAD BLAST SURFACE, PREP TO RECEIVE NEW WATERPROOF MEMBRANE
- EXISTING UNDERGROUND TUNNEL
- EXISTING LIGHT POLE & CONCRETE BASE TO BE REMOVED, LIGHT POLE TO BE REINSTALLED ON NEW BASE



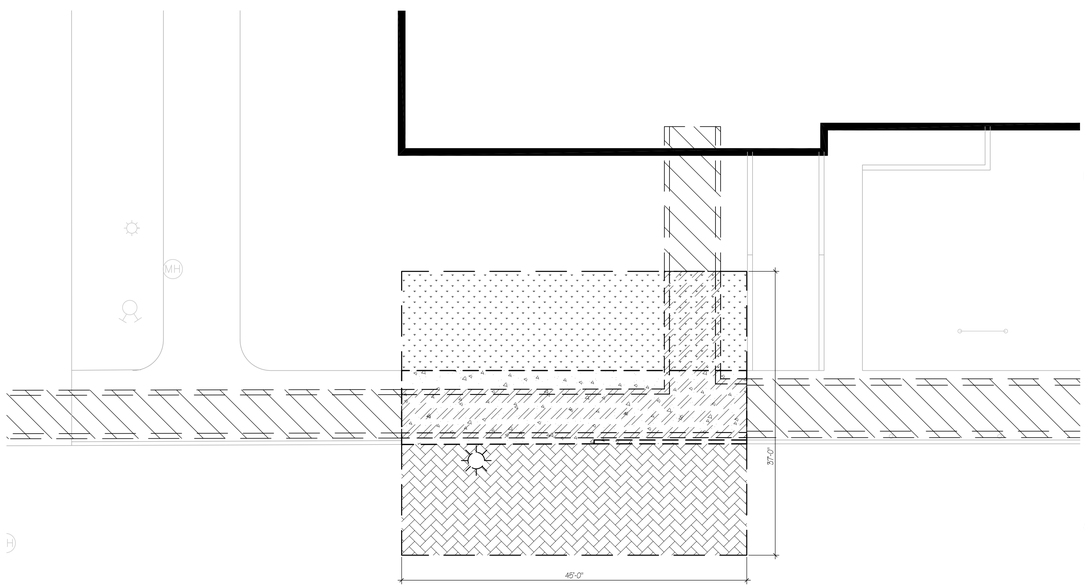
C2 ENLARGED SITE PLAN - ADMIN BLDG
1/8"=1'-0"



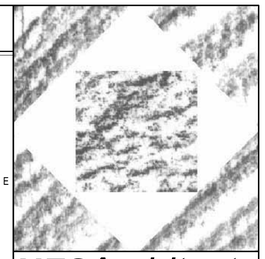
A2 ENLARGED SITE PLAN - CT BLDG
1/8"=1'-0"



C5 ENLARGED DEMO PLAN - ADMIN BLDG
1/8"=1'-0"



A5 ENLARGED DEMO PLAN - CT BLDG
1/8"=1'-0"



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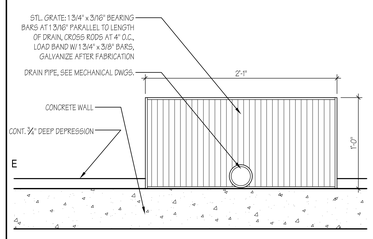
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

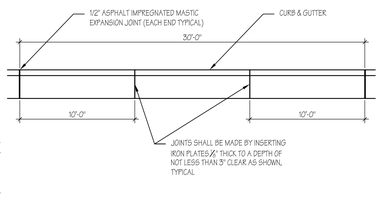
ENLARGED SITE
DEMOLITION PLANS
& NEW SITE PLANS

AS102

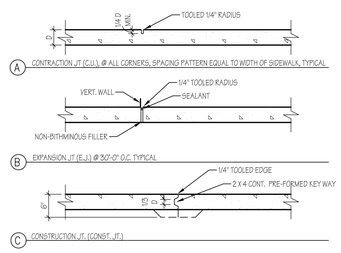
SHEET 3 OF 4



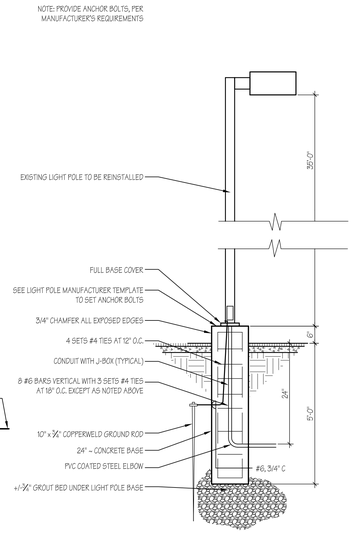
E1 SUMP DETAIL
1-1/2"=1'-0"



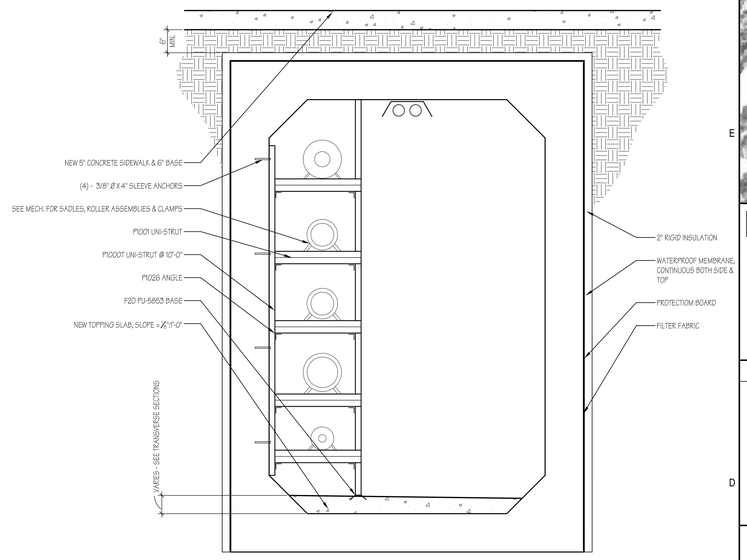
E2 CURB & GUTTER JOINT DETAIL
3/16"=1'-0"



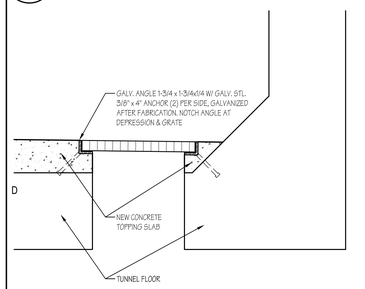
E3 SIDEWALK JOINT DETAILS
3/4"=1'-0"



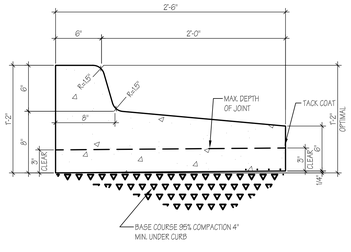
D4 LIGHT POLE BASE DETAIL
1/8"=1'-0"



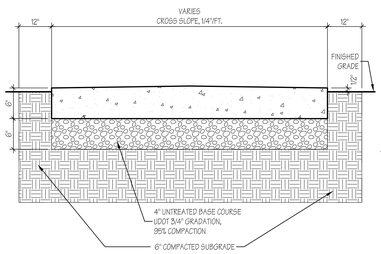
D5 TUNNEL SECTION
3/4"=1'-0"



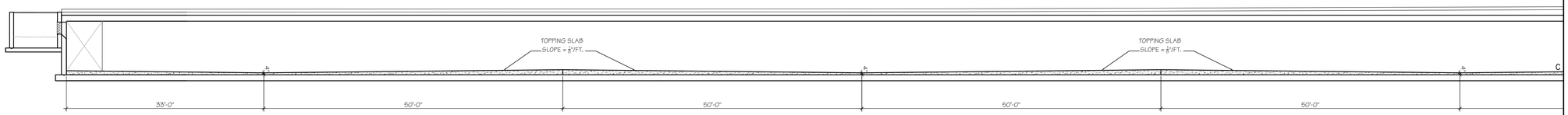
D1 SUMP DETAIL
1-1/2"=1'-0"



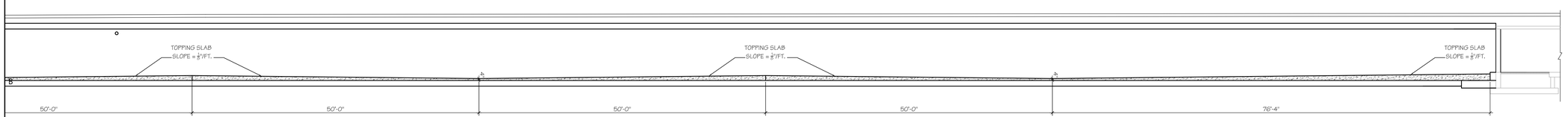
D2 CURB & GUTTER DETAIL
1-1/2"=1'-0"



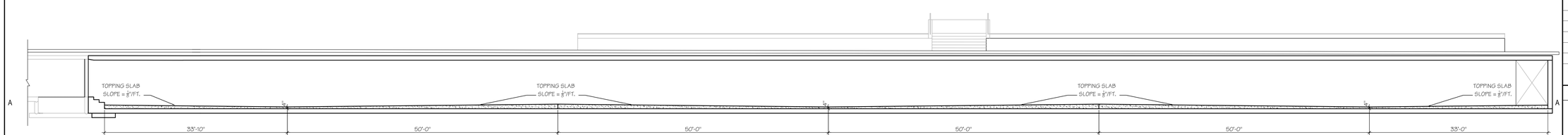
D3 SIDEWALK CROSS SECTION
1-1/2"=1'-0"



C4 TUNNEL SECTION
1/8"=1'-0"



B4 TUNNEL SECTION
1/8"=1'-0"



A4 TUNNEL SECTION
1/8"=1'-0"

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UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

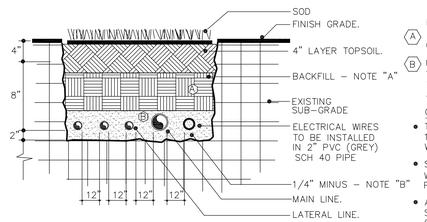
DATE:	15 OCTOBER 2008
DFCM PROJECT NO:	08100600
HFSA PROJECT NO:	0825.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

TUNNEL SECTIONS & SITE DETAILS

AS501

SHEET 4 OF 4



NOTES:

(A) EX. TRENCH M'TRL @ 2" MINUS

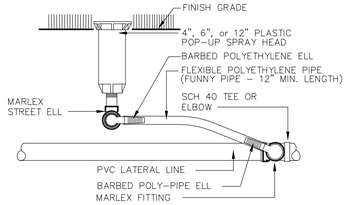
(B) USE 2" LAYER OF 1/4" MINUS MATERIAL TO BED ALL PIPES & WIRES.

GENERAL NOTE:

- TRENCHES MUST BE 12" FROM BLDGS; WALKS; HRDSRFCES.
- SETTLE TRENCHES W/ WATER PRIOR TO PLACING TOPSOIL.
- ALL PIPES MUST BE SEPARATED A MIN. OF 12" FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE IN ALL TRENCHES.

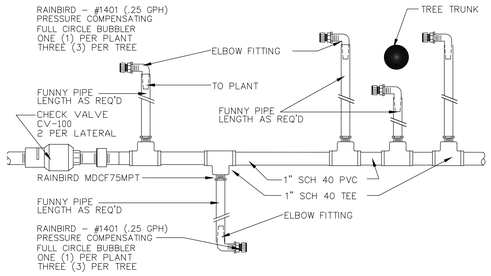
TRENCHING DETAIL — 1 / L1.1

Not to Scale



SWING JOINT–SPRAY HEAD — 2 / L1.1

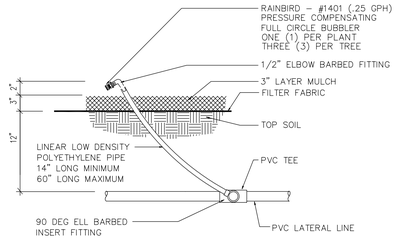
Not to Scale



TOP VIEW

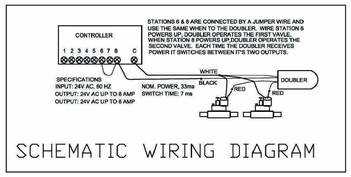
DRIP LINE – LATERAL — 3 / L1.1

SCALE: NOT TO SCALE

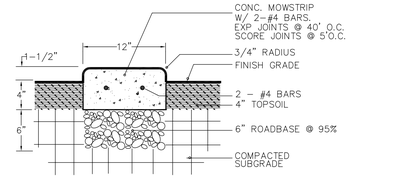


DRIP EMITTER – SECTION — 4 / L1.1

SCALE: NOT TO SCALE

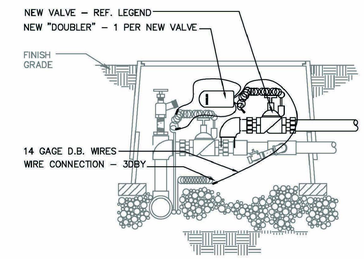


SCHEMATIC WIRING DIAGRAM



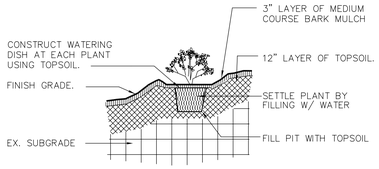
MOWSTRIP — 6 / L1.1

Not to Scale



EX. VALVE W/ DOUBLER — 5 / L1.1

SCALE: NOT TO SCALE



SHRUB PLANTING DETAIL — 7 / L1.1

Not to Scale

IRRIGATION LEGEND

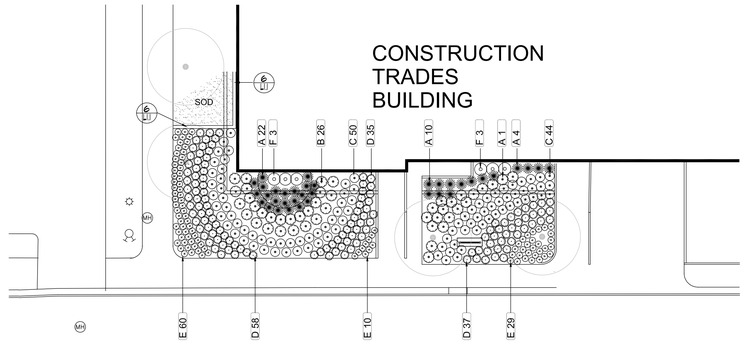
SYM	DESCRIPTION
⊕	RAINBIRD 1804-PRS-15Q
ⓘ	RAINBIRD 1804-PRS-15H
–ʌ–ʌ–ʌ–ʌ–	LATERAL LINE - PVC SCH 40, S.A.S
	RAINBIRD 200-PESB SERIES ELEC. REMOTE CONTROL VALVE (2")
	LATERAL LINE - PVC SCH 40, S.A.S 12" BURY. ● 1", ●● 1 1/4", ●●● 1 1/2", ●●●● 2".
	CUT EXISTING PIPE OR CONTROL WIRES

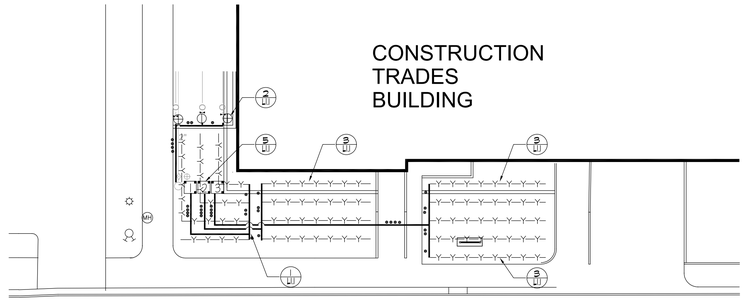
NOTES:

1. LOCATE ALL VALVE BOXES A MIN. OF 5' FROM ALL HARDSURFACES.
2. POINT OF CONNECTION.
3. THIS SPRINKLER IRRIGATION PLAN IS DRAWN FOR GRAPHIC CLARITY. WHERE PIPING AND VALVES ARE SHOWN IN CONCRETE AREAS, EXCEPT WHERE CROSSING, THE INTENT IS FOR THE PIPING AND VALVES TO BE PLACED IN THE ADJACENT PLANTING AREAS.

LEGEND of SYMBOLS

SYMBOLS	DESCRIPTION
	EXISTING SIGN TO REMAIN
	EXISTING TUNNEL
	EXISTING LIGHT POLES
	EXISTING TREES TO REMAIN
	EX. QUICK COUPLER TO REMAIN
	EX. DRAIN TO REMAIN
HTS	EX. CONTROL VALVES TO REMAIN
	EX. LATERAL LINES TO BE REMOVED (SHRUB AREA)
	EX. LATERAL LINES TO BE REMOVED (LAWN AREA)
	NEW KENTUCKY BLUEGRASS (SOD)
	REMOVE SOD FROM THESE AREAS
	REMOVE SHRUBS FROM THESE AREAS

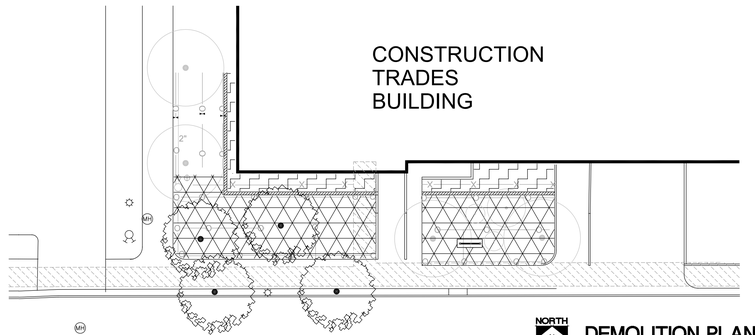




NORTH

IRRIGATION PLAN

SCALE : 1" = 20'



NORTH

DEMOLITION PLAN

SCALE : 1" = 20'

PLANTING SCHEDULE

	BOTANICAL NAME	COMMON NAME	SIZE
A	MISCANTHUS S. ZEBRINUS	ZEBRA GRASS	1 GAL. CAN
B	PANICUM V. HEAVY METAL	HEAVY METAL SWITCH GRASS	1 GAL. CAN
C	CALAMAGROSTIS X. ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER GRASS	1 GAL. CAN
D	SCHISACHYRIUM SCOPARIUM 'BLAZE'	BLAZE LITTLE BLUESTEM	1 GAL. CAN
E	FESTUCA OVINA GLAUCA	BLUE FESCUE	1 GAL. CAN
F	PHYLOSTACHYS AUREOSULCATA	YELLOW GROVE BAMBOO	3 GAL. CAN

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LANDSCAPE ARCHITECT — BRENT D. MORRIS — 105710-5301 — STATE OF UTAH

bma — brent morris associates ■ landscape architects

UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

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HFSA PROJECT NO:	0825.01
CAD DWG FILE NO:	
DRAWN BY:	
CHECKED BY:	BRENT
DESIGNED BY:	BRENT
DWG TYPE:	LANDSCAPE
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

DEMOLITION & IRRIGATION & PLANTING PLANS & LANDSCAPE DETAILS

L1.1

SHEET OF ?

MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY		
A / ME-101		SECTION LETTER DESIGNATION SECTION DRAWN ON THIS SHEET
A2		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION
AH / 1		MECHANICAL EQUIPMENT DESIGNATION EQUIPMENT ITEM DESIGNATION
1		REVISION DESIGNATOR AND NUMBER
1		KEY NOTE DESIGNATOR AND NUMBER
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
AFF		ABOVE FINISHED FLOOR
AP		ACCESS PANEL
C EL.		CENTER LINE ELEVATION
INV. ELEV.		INVERT ELEVATION
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
CC		CONTROL CONTRACTOR
EC		ELECTRICAL CONTRACTOR
NIC		NOT IN CONTRACT
NTS		NOT TO SCALE
NC		NORMALLY CLOSED
NO		NORMALLY OPEN
SYMBOL	ABR.	DESCRIPTION
AIR SIDE		
	AP	ACCESS PANEL
		EXISTING EQUIPMENT TO BE REMOVED
		EXISTING EQUIPMENT TO REMAIN
		NEW EQUIPMENT

SYMBOL	ABR.	DESCRIPTION
WET SIDE		
		MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)
		MANUAL ACTUATOR (GATE, GLOBE, S&D, OS&Y, ETC. VALVES)
		THREADED OR SWEAT VALVE CONNECTION
		FLANGED VALVE CONNECTION
		BUTTERFLY VALVE
		GATE VALVE
		CHECK VALVE
	CBV	CIRCUIT BALANCING VALVE
	BV	BALL VALVE
P	PRV	PRESSURE RELIEF VALVE
		NEEDLE VALVE
		AUTOMATIC AIR VENT
		MANUAL AIR VENT
		STRAINER
		STRAINER W/ PLUGGED BLOW OFF
		PRESSURE GAUGE AND GAUGE COCK - WATER
		PRESSURE GAUGE AND GAUGE COCK - STEAM
		THERMOMETER AND THERMOWELL
F		FLOW SWITCH
T / IBT		INVERTED BUCHEK STEAM TRAP
F&T		FLOAT & THERMOSTATIC STEAM TRAP
		DIRECTION OF FLOW

SYMBOL	ABR.	DESCRIPTION
WET SIDE CONT		
		PITCH DOWN
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		EXISTING PIPING TO BE REMOVED
		EXISTING PIPING TO REMAIN
		NEW PIPING
		PIPE CAP OR PLUG
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		EXPANSION JOINT
		ANCHOR POINT
	CW	CULINARY COLD WATER
	HW	CULINARY HOT WATER
		RECIRCULATED CULINARY HOT WATER
CHWS		CHILLED WATER SUPPLY
CHWR		CHILLED WATER RETURN
LPS		LOW PRESSURE STEAM
LPR		LOW PRESSURE STEAM RETURN
MPS		MEDIUM PRESSURE STEAM
MPR		MEDIUM PRESSURE STEAM RETURN
HPS		HIGH PRESSURE STEAM
HPR		HIGH PRESSURE STEAM RETURN
PC		PUMPED CONDENSATE

GENERAL NOTES:

G-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE BY WRITTEN PROPOSAL TO THE ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGES UNTIL WRITTEN APPROVAL IS GIVEN.

G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS AT SITE.

G-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SUPPORTS AND PIPING SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR PIPE SUPPORTS ANCHORS ETC.

G-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-7 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

G-8 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-9 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND SLCC REQUIREMENTS.

G-10 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM. CHEMICAL TREATMENT SHALL BE DONE BY COLLEGE'S WATER TREATMENT SERVICE ORGANIZATION, POWER ENGINEERING.

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UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

DATE:	15 OCTOBER 2008
DFCM PROJECT NO:	08100600
HFSA PROJECT NO:	0825.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	WP
DESIGNED BY:	STAFF
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL GENERAL NOTES AND LEGEND

MG001

SHEET OF

SHEET NOTES:

1. REMOVE EXISTING CHILLED WATER SERVING CONSTRUCTION TRADES BUILDING. CAP AT TUNNEL EXIT.
2. SEE SHEET ME401 FOR LARGE SCALE PIPING PLANS IN THIS AREA.
3. SEE SHEET ME402 FOR LARGE SCALE PIPING PLANS IN THIS AREA.
4. REMOVE EXISTING CHILLED WATER PIPING IN CONSTRUCTION TRADES TO POINT SHOWN AND CAP. COORDINATE WITH G.C. TO PATCH AND REPAIR WALL AS NECESSARY.
5. EXISTING BURIED CHILLED WATER PIPING IN THIS AREA SHALL BE ABANDONED IN PLACE.

MECHANICAL DEMOLITION SITE PLAN
SCALE: 1/32" = 1'-0"

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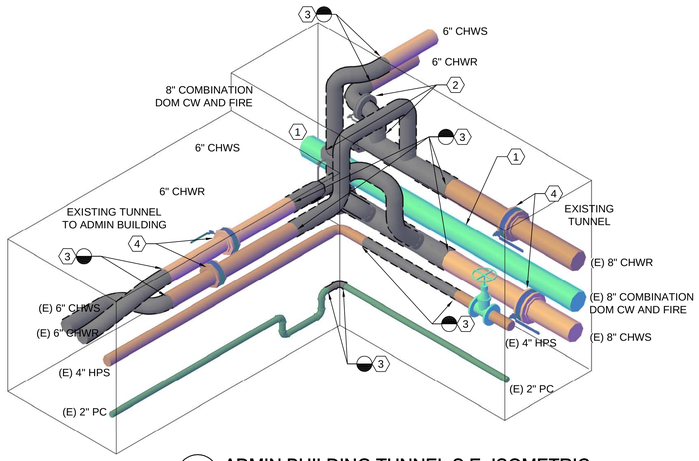
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

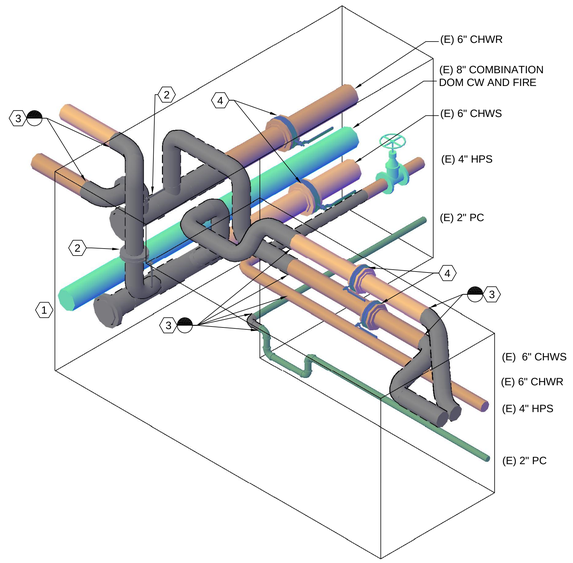
MECHANICAL DEMOLITION SITE PLAN

MD101

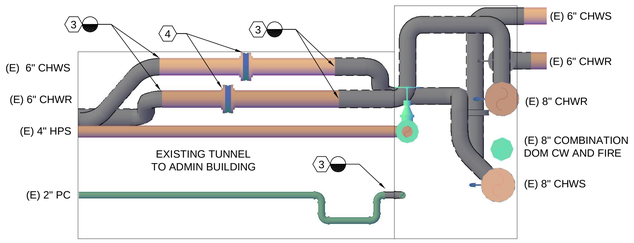
SHEET OF



D1 ADMIN BUILDING TUNNEL S.E. ISOMETRIC PIPING DEMOLITION PLAN
SCALE: NONE



D3 ADMIN BUILDING TUNNEL S.W. ISOMETRIC PIPING DEMOLITION PLAN
SCALE: NONE



C1 ADMIN BUILDING TUNNEL SECTION PIPING DEMOLITION PLAN
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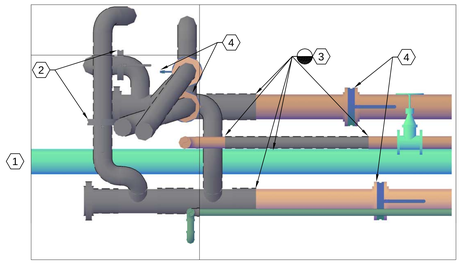
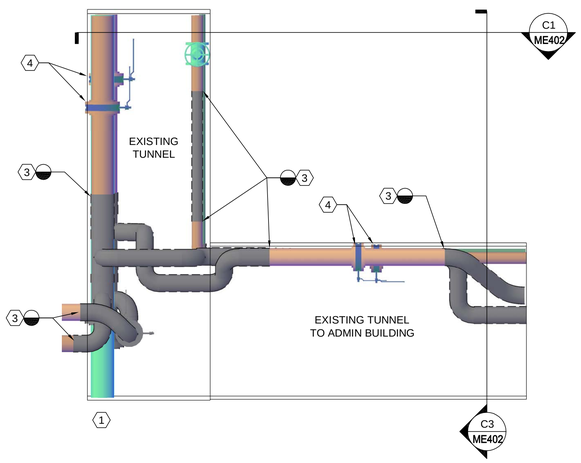


C3 ADMIN BUILDING TUNNEL SECTION PIPING DEMOLITION PLAN
SCALE: NONE



A1 ADMIN BUILDING TUNNEL PIPING DEMOLITION PLAN
SCALE: NONE

SHEET NOTES:

1. EXISTING DOMESTIC WATER FIRE LINE SHALL REMAIN.
2. REMOVE EXISTING VALVES THAT WERE INSTALLED IN PREVIOUS CONTRACT.
3. REMOVE EXISTING PIPING TO APPROXIMATE LOCATIONS SHOWN.
4. EXISTING VALVES SHALL REMAIN.

GENERAL NOTE:

1. FIELD VERIFY EXACT LOCATION, DIMENSION, ETC. PRIOR TO ORDERING OR FABRICATING ANY PIPING.
2. HIGH PRESSURE STEAM SHALL BE SCHEDULE 80 BLACK STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
3. PUMPED CONDENSATE SHALL BE SCHEDULE 80 STEEL WITH THREADED FITTINGS. SEE SPECIFICATIONS.
4. CHILLED WATER PIPING SHALL BE SCHEDULE 40 STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
5. COORDINATE EXACT PIPING LOCATION AND ROUTING WITH ALL OTHER PLANS, DISCIPLINES, FIELD CONDITIONS, ETC.

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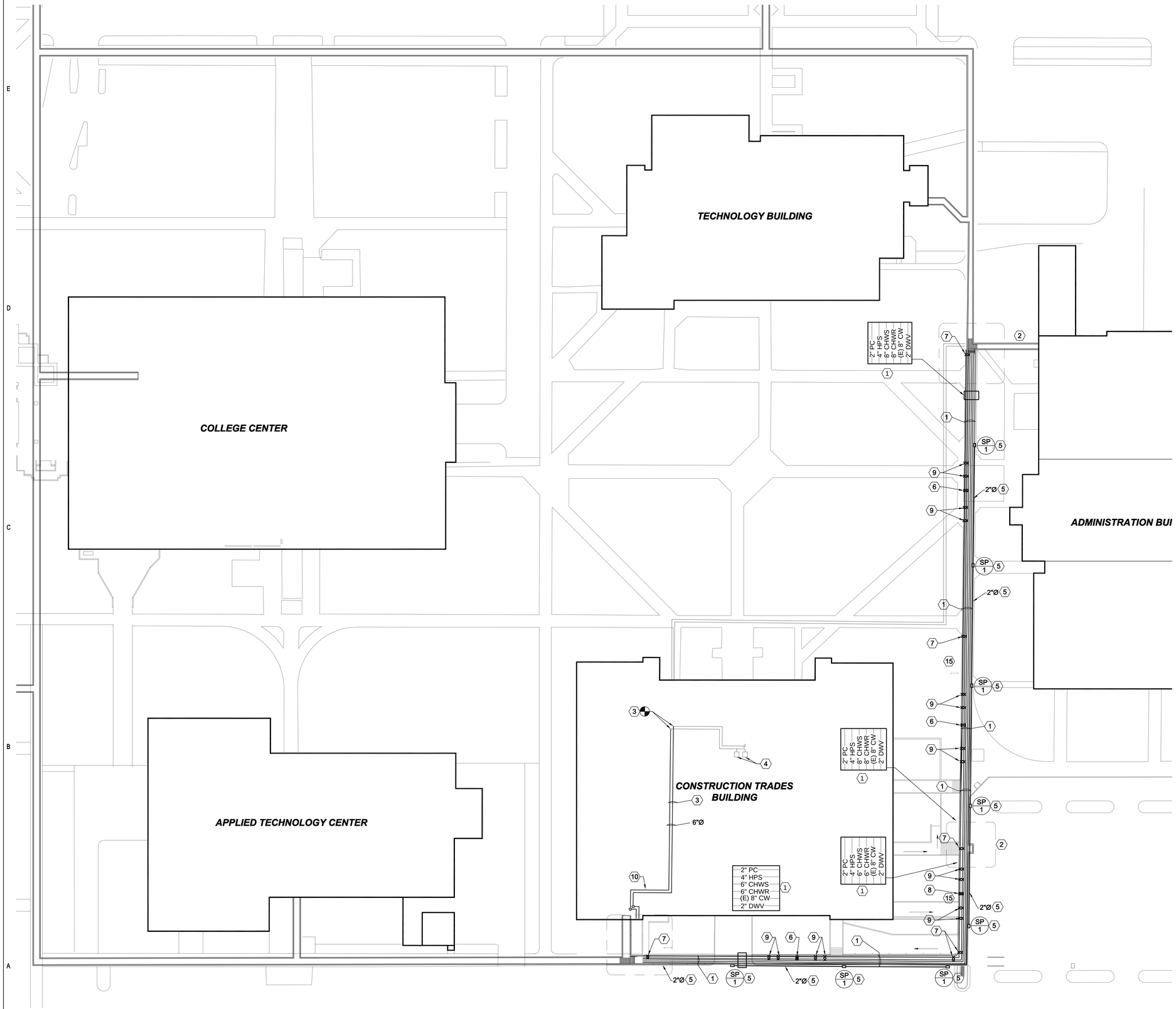
SHEET TITLE

LARGE SCALE DEMOLITION PLANS, SECTIONS, AND ISOMETRICS

MD401

SHEET OF



MECHANICAL SITE PLAN
SCALE: 1/32" = 1'-0"

SHEET NOTES:

1. PROVIDE NEW CHWS, CHWR, HPS, AND PC LINES IN NEW TUNNEL. TIE INTO EXISTING PIPING AT TUNNEL CONNECTIONS. SEE DETAILS ME401,ME402, ME501, AND ME502. SEE DETAILS FOR PIPING SUPPORTS.
2. DISCONNECT EXISTING CHILLED WATER SUPPLY AND RETURN PIPING. RE-CONNECT EXISTING CHWS TO NEW CHWR AND EXISTING CHWR TO NEW CHWS.
3. PROVIDE NEW 6" CHWS AND 6" CHWR FROM TUNNEL TO EXISTING PIPING IN CORRIDOR CEILING OF CONSTRUCTION TRADES BUILDING. COORDINATE PHASING WITH OWNER AND G.C.
4. SUB-CONTRACT WITH JOHNSON CONTROLS TO ADJUST EXISTING PUMP CONTROLS AND SET POINTS UPON PROJECT COMPLETION.
5. PROVIDE SUMP PUMP IN EXISTING TUNNEL FLOOR. PROVIDE 1-1/2" DISCHARGE PIPING UP TO 2" WASTE PIPING ON WALL. PROVIDE CHECK VALVE IN 1-1/2" PIPE AT POINT OF CONNECTION. ROUTE 2" WASTE PIPING ON WALL TO EXISTING FLOOR DRAINS IN ADMINISTRATION BUILDING AND CONSTRUCTION TRADES BUILDING MECHANICAL ROOMS. SLOPE TO DRAINS. COORDINATE WITH FIELD CONDITIONS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PRINTS AND ALL DISCIPLINES.
6. PROVIDE INLINE SLIP TYPE EXPANSION JOINT WITH 8" COMPRESSION TRAVEL IN STEAM AND CONDENSATE PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS WITH ANCHORS AND GUIDES AS NECESSARY.
7. PROVIDE STEAM AND CONDENSATE PIPING ANCHORS. SEE DETAIL. COORDINATE WITH EXPANSION JOINT MANUFACTURERS FOR RECOMMENDED DISTANCE BETWEEN ANCHOR AND EXPANSION JOINT. COORDINATE EXACT DIMENSION AND LOCATION WITH ARCHITECTURAL.
8. PROVIDE INLINE SLIP TYPE EXPANSION JOINT WITH 4" COMPRESSION TRAVEL IN STEAM AND CONDENSATE PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS INCLUDING ANCHORS AND GUIDES AS NECESSARY.
9. PROVIDE PIPE GUIDES AT EXPANSION JOINTS. SEE DETAIL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
10. COORDINATE WITH G.C. TO CORE DRILL MECHANICAL ROOM WALL FOR NEW PIPING PENETRATIONS. FIELD VERIFY EXACT LOCATION.

GENERAL NOTES:

1. SLOPE STEAM PIPING IN DIRECTION OF FLOW TO CORNER OF TUNNEL. PROVIDE END OF MAIN STEAM TRAP AT FUTURE STUB OUT. PROVIDE STEAM TRAPS AT EVERY ELEVATION CHANGE AND EVERY 100'.
2. SLOPE CONDENSATE PIPING FROM TUNNEL CORNER TO EXISTING TUNNELS.
3. SLOPE DRAINAGE PIPING TO FLOOR DRAINS IN EXISTING MECHANICAL ROOMS.

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UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

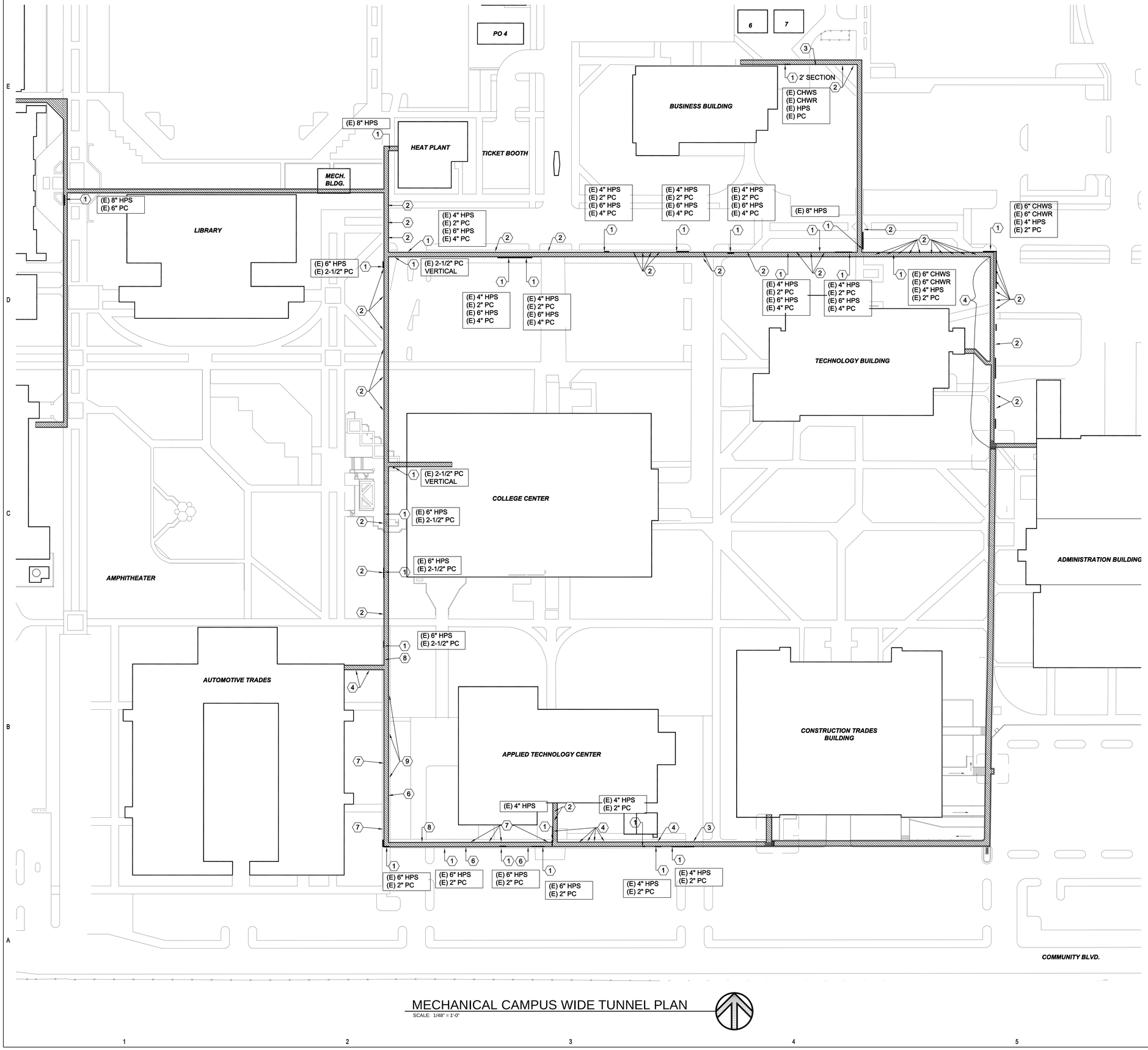
MARK	DATE	DESCRIPTION

DATE:	15 OCTOBER 2008
DFCM PROJECT NO:	08100600
HFSA PROJECT NO:	0825.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	WP
DESIGNED BY:	STAFF
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL SITE PLAN

ME101
SHEET OF



MECHANICAL CAMPUS WIDE TUNNEL PLAN

SCALE: 1/48" = 1'-0"

SHEET NOTES:

1. REPLACE 10' SECTION OF INSULATION ON ALL PIPING DENOTED. INCLUDE JACKET, LABELING, ETC. SEE SPECIFICATION FOR INSULATION THICKNESS. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING **PRIOR** TO ORDERING.
2. PROVIDE NEW UNISTRUT FRAME WITH SUPPORTS, ROLLERS, ETC. FOR ALL PIPES DENOTED IN THIS AREA. SEE DETAIL. AFTER INSTALLING NEW FRAME, REMOVE OLD FRAME.
3. RE-SUPPORT COLD WATER PIPE ON BOTH SIDES OF WATER VALVE.
4. PROVIDE NEW CLEVIS HANGER AT EXISTING PIPING. FIELD VERIFY SIZE AND LOCATION.
5. REPLACE INSULATION FOR CHWS, CHWR, HPS, AND PC FOR THIS TUNNEL SECTION.
6. PROVIDE NEW UNISTRUT SUPPORT AND ROLLER FOR HIGH PRESSURE STEAM PIPE. RE-CONNECT TO EXISTING FRAME. SEE DETAIL.
7. PROVIDE NEW UNISTRUT SUPPORT AND ROLLER FOR CONDENSATE PIPE. RE-CONNECT TO EXISTING FRAME. SEE DETAIL.
8. PROVIDE NEW UNISTRUT SUPPORT AND ROLLER FOR WATER LINE. RE-CONNECT TO EXISTING FRAME. SEE DETAIL.
9. PROVIDE NEW UNISTRUT SUPPORT AND ROLLER FOR COMPRESSED AIR, OXYGEN AND ACETYLENE. RE-CONNECT TO EXISTING FRAME. SEE DETAIL.

GENERAL NOTES:

1. FIELD VERIFY EXACT LOCATION AND SIZING OF PIPE, INSULATION, HANGER ETC **PRIOR** TO ORDERING.
2. ALL SUPPORTS IN CORRODED AREAS TO BE REPLACED AND MOUNTED WITH PLATE TYPE CONNECTION ANCHORED TO EXISTING CONCRETE.
3. REPAIR INSULATION AFTER REPLACING SUPPORTS.

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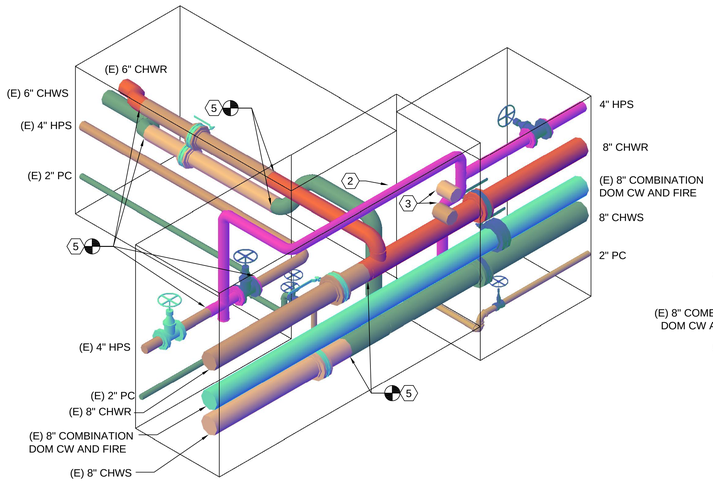
CHECKED BY:	WP
DESIGNED BY:	STAFF
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

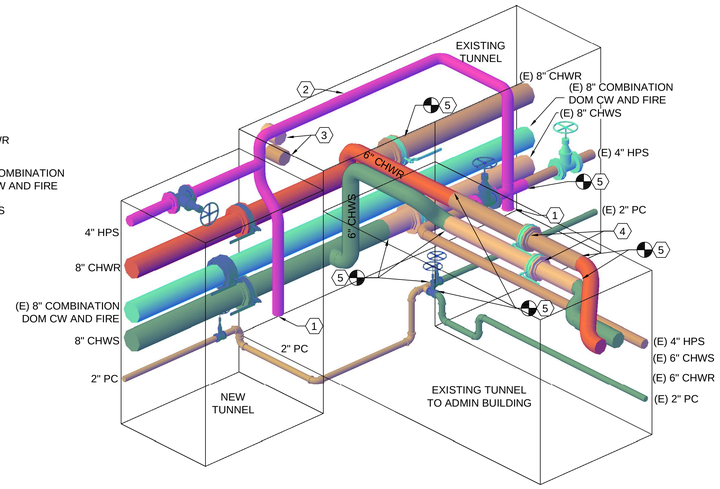
MECHANICAL CAMPUS WIDE TUNNEL PLAN

ME102

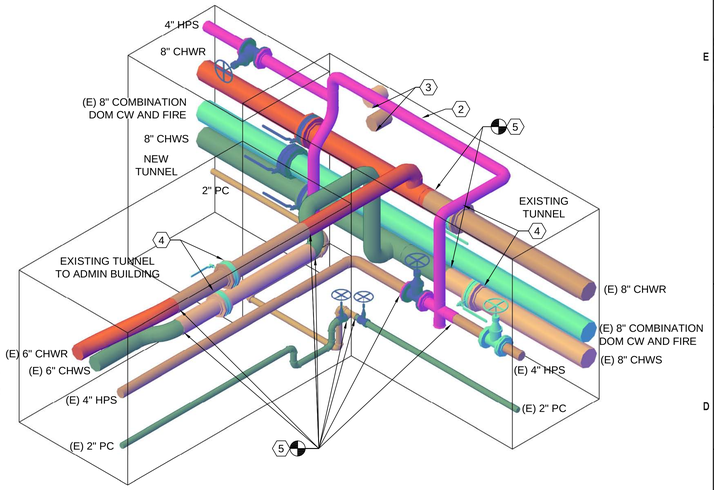
SHEET OF



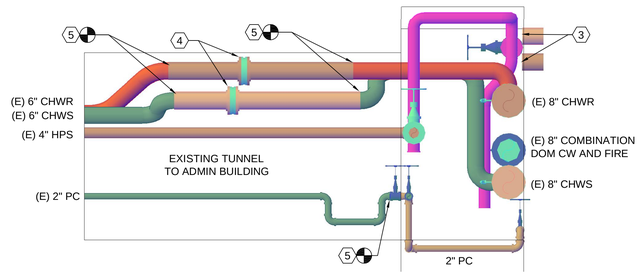
D1 ADMIN BUILDING TUNNEL NEW PIPING ISOMETRIC
SCALE: NONE



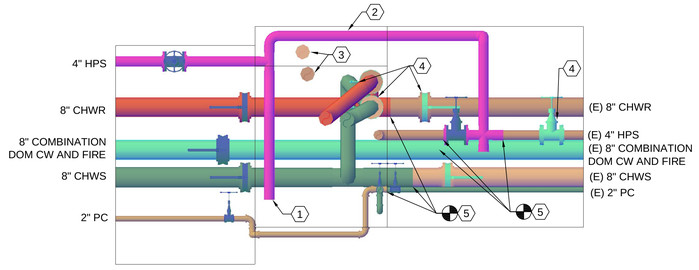
D3 ADMIN BUILDING TUNNEL NEW PIPING S.W. ISOMETRIC
SCALE: NONE



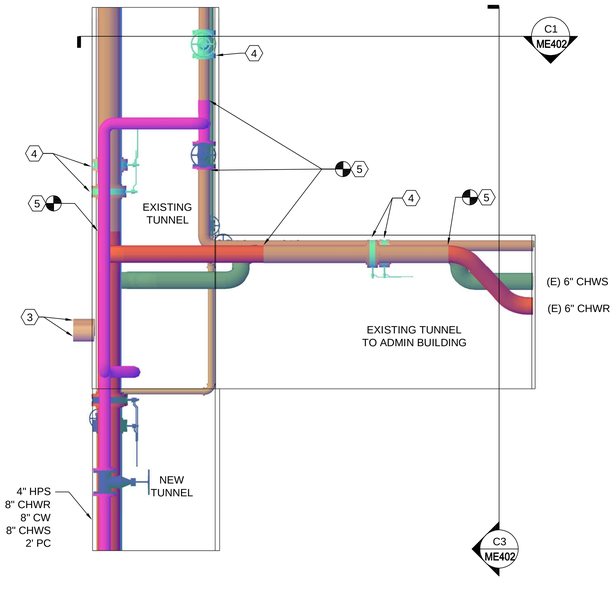
D5 ADMIN BUILDING TUNNEL NEW PIPING S.E. ISOMETRIC
SCALE: NONE



C1 ADMIN BUILDING TUNNEL NEW PIPING SECTION
SCALE: NONE



C3 ADMIN BUILDING TUNNEL NEW PIPING SECTION
SCALE: 1/2"=1'-0"



A3 ADMIN BUILDING TUNNEL NEW PIPING PLAN
SCALE: 1/2"=1'-0"

SHEET NOTES:

1. PROVIDE DRIP LEG AND TRAP. SEE DETAIL ON SHEET ME501.
2. PROVIDE MANUAL AIR VENTS AT HIGH POINTS IN PIPING.
3. EXISTING CHILLED WATER SUPPLY AND RETURN PIPE TO BE CAPPED AND ABANDONED IN PLACE.
4. EXISTING VALVES SHALL REMAIN.
5. RE-CONNECT TO EXISTING PIPING WHERE SHOWN.

GENERAL NOTE:

1. FIELD VERIFY EXACT LOCATION, DIMENSION, ETC. PRIOR TO ORDERING OR FABRICATING ANY PIPING.
2. HIGH PRESSURE STEAM SHALL BE SCHEDULE 80 BLACK STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
3. PUMPED CONDENSATE SHALL BE SCHEDULE 80 STEEL WITH THREADED FITTINGS. SEE SPECIFICATIONS.
4. CHILLED WATER PIPING SHALL BE SCHEDULE 40 STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
5. COORDINATE EXACT PIPING LOCATION AND ROUTING WITH ALL OTHER PLANS, DISCIPLINES, FIELD CONDITIONS, ETC.

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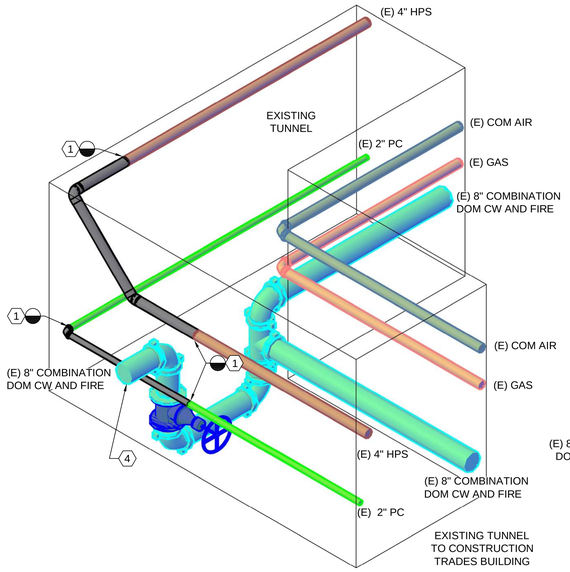
SHEET TITLE

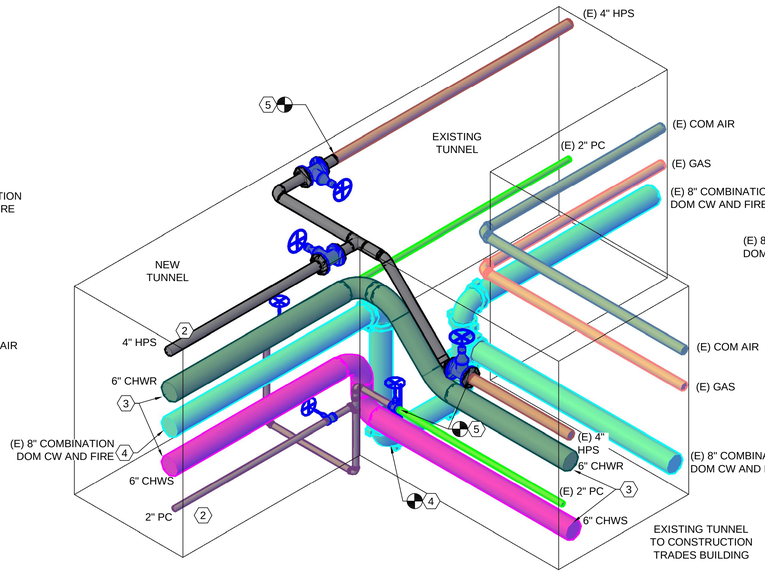
LARGE SCALE PIPING PLANS, SECTIONS, AND ISOMETRICS

ME401

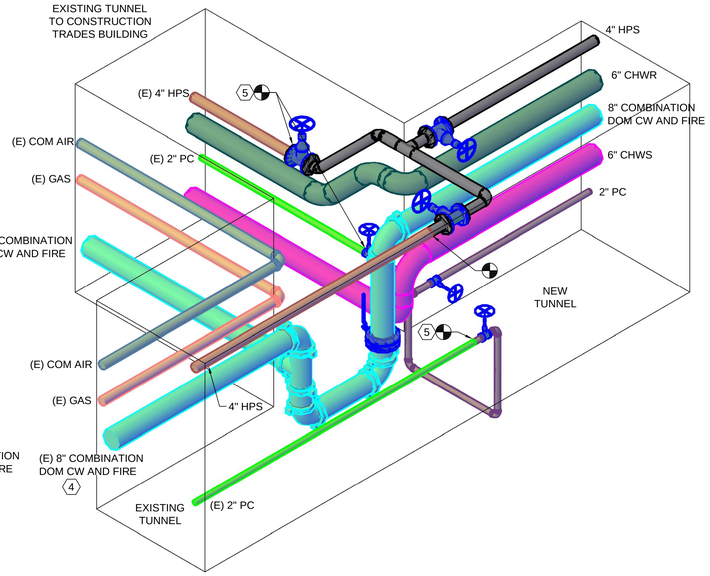
SHEET OF



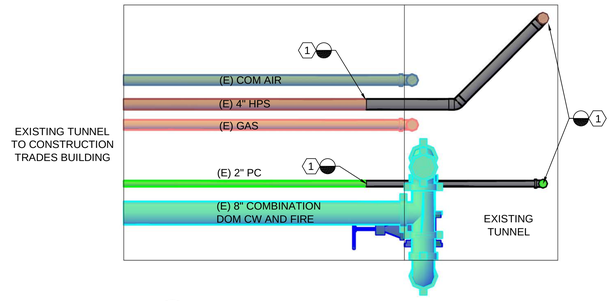
D1 CONSTRUCTION TRADES TUNNEL PIPING DEMOLITION ISOMETRIC
SCALE: NONE



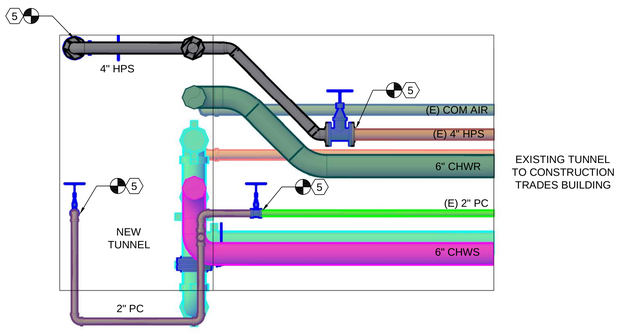
D3 CONSTRUCTION TRADES TUNNEL NEW PIPING ISOMETRIC LOOKING SOUTHWEST
SCALE: NONE



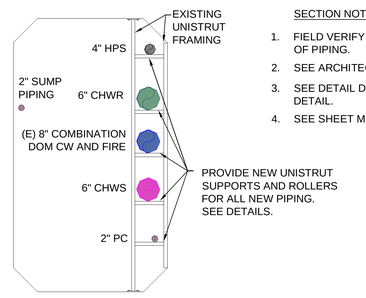
D3 CONSTRUCTION TRADES TUNNEL NEW PIPING ISOMETRIC LOOKING NORTH EAST
SCALE: NONE



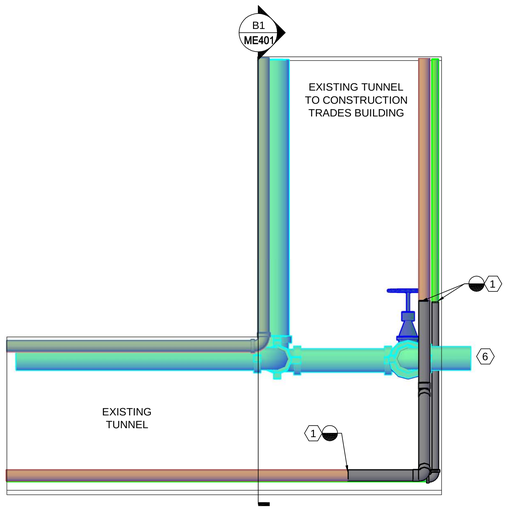
B1 CONSTRUCTION TRADES TUNNEL SECTION PIPING DEMOLITION PLAN
SCALE: NONE



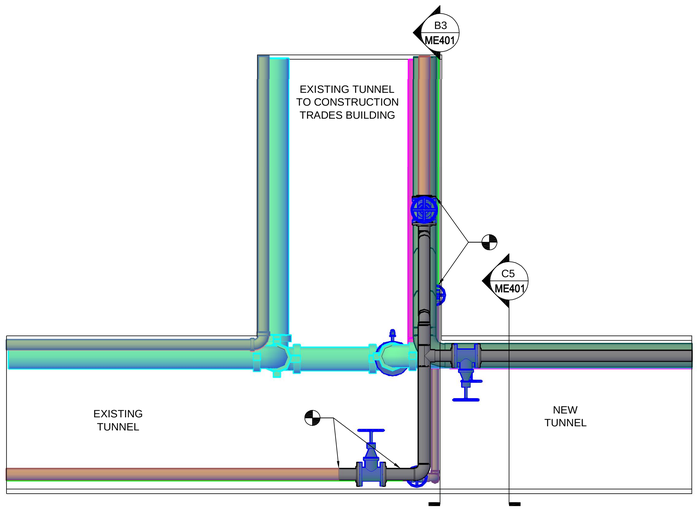
B3 CONSTRUCTION TRADES TUNNEL NEW PIPING SECTION
SCALE: NONE



B5 NEW TUNNEL TYPICAL PIPING SECTION
SCALE: NONE



A1 CONSTRUCTION TRADES TUNNEL PIPING DEMOLITION PLAN
SCALE: NONE



A3 CONSTRUCTION TRADES TUNNEL NEW PIPING PLAN
SCALE: NONE

SECTION NOTES:

1. FIELD VERIFY EXACT LOCATION, ROUTING, AND SLOPING OF PIPING.
2. SEE ARCHITECTURAL PLANS FOR UNISTRUT SUPPORTS.
3. SEE DETAIL D4 ON ME501 FOR PIPE ROLLER AND SADDLE DETAIL.
4. SEE SHEET ME101 FOR GENERAL ROUTING.

SHEET NOTES:

1. REMOVE SECTION OF EXISTING PIPING AS SHOWN. PROVIDE ISOLATION VALVES AT POINT OF REMOVAL. SEE MD101.
2. PROVIDE NEW STEAM AND CONDENSATE PIPING IN NEW TUNNEL. SEE PLAN VIEW ME101.
3. NEW CHILLED WATER PIPING SEE ME101 AND ME102.
4. EXISTING DOMESTIC WATER/FIRE LINE SHALL REMAIN.
5. RE-CONNECT TO EXISTING PIPING IN TUNNEL. PROVIDE ISOLATION VALVE AT POINT OF CONNECTION. SEE DEMOLITION PLANS AND DETAILS.

GENERAL NOTE:

1. FIELD VERIFY EXACT LOCATION, DIMENSION, ETC. PRIOR TO ORDERING OR FABRICATING ANY PIPING.
2. HIGH PRESSURE STEAM SHALL BE SCHEDULE 80 BLACK STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
3. PUMPED CONDENSATE SHALL BE SCHEDULE 80 STEEL WITH THREADED FITTINGS. SEE SPECIFICATIONS.
4. CHILLED WATER PIPING SHALL BE SCHEDULE 40 STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
5. COORDINATE EXACT PIPING LOCATION AND ROUTING WITH ALL OTHER PLANS, DISCIPLINES, FIELD CONDITIONS, ETC.

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UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

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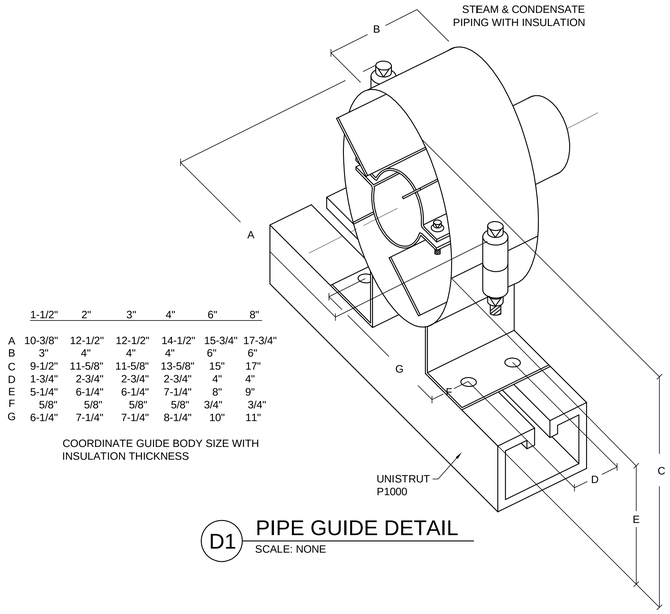
DESIGNED BY:	STAFF
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

LARGE SCALE PIPING PLANS, SECTIONS, AND ISOMETRICS

ME402

SHEET OF

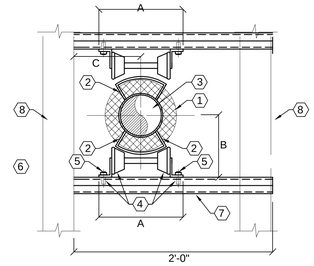


	1-1/2"	2"	3"	4"	6"	8"
A	10-3/8"	12-1/2"	12-1/2"	14-1/2"	15-3/4"	17-3/4"
B	3"	4"	4"	4"	6"	6"
C	9-1/2"	11-5/8"	11-5/8"	13-5/8"	15"	17"
D	1-3/4"	2-3/4"	2-3/4"	2-3/4"	4"	4"
E	5-1/4"	6-1/4"	6-1/4"	7-1/4"	8"	9"
F	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"
G	6-1/4"	7-1/4"	7-1/4"	8-1/4"	10"	11"

COORDINATE GUIDE BODY SIZE WITH INSULATION THICKNESS

D1 PIPE GUIDE DETAIL
SCALE: NONE

TABLE 1							
PIPE SIZE	USAGE	INSULATION THICKNESS	A	B	C	ROLLER MODEL	SADDLE MODEL
2"	PUMPED CONDENSATE	2"	9"	5-1/2"	6"	B-LINE B219-2	B-LINE B3162-2
4"	STEAM	3"	10-7/8"	7-3/8"	8"	B-LINE B219-4	BILINE B3164-4
6"	CHILLED WATER	1"	10"	6-7/16"	10"	B-LINE B219-3	B-LINE B3160-6
8"	DOMESTIC FIRE WATER	1"	10-7/8"	7-7/16"	10"	B-LINE B219-4	B-LINE B3160-8

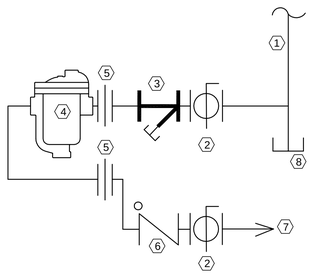


D4 PIPE SADDLE AND ROLLER DETAIL
SCALE: NONE

DETAIL NOTES:

1. PIPE INSULATION. SEE TABLE 1 FOR THICKNESS.
2. PIPE SADDEL. SEE TABLE 1 FOR MODEL No.
3. 2"Ø, 4"Ø, 6"Ø AND 8"Ø PIPE.
4. PIPE ROLLER ASSEMBLIES. SEE TABLE 1 FOR MODEL No.
5. 1/2"Ø BOLT, LOCKWASHER AND NUT.
6. TUNNEL WALL. SEE ARCHITECTURAL.
7. 2'-0" UNISTRUT PIPE SUPPORTS. SEE ARCHITECTURAL DRAWINGS.
8. VERTICAL UNISTRUT. SEE ARCHITECTURAL DRAWINGS.
9. SEE SECTION B5/ME501 FOR TYPICAL VERTICAL SPACING IN TUNNEL. COORDINATE WITH FIELD CONDITIONS AND ARCHITECTURAL.

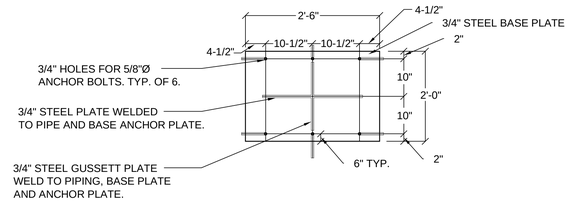
PROVIDE UPPER ROLLER SUPPORT FOR SEISMIC SUPPORT. LEAVE 1/4" GAP BETWEEN UPPER SUPPORT AND PIPE.

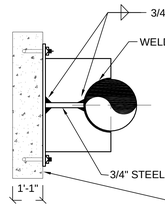


DETAIL NOTES:

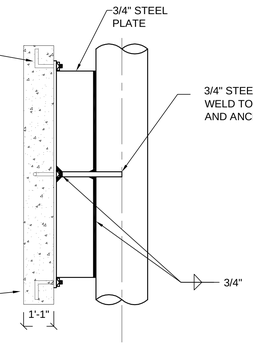
1. DRIP LEG (LINE SIZE UP TO 4". FOR 6" AND LARGER, DRIP LEG SHALL BE AT LEAST 3/4 LINE SIZE, BUT NO LESS THAN 4")
2. BALL VALVE
3. STRAINER (INSTALL IN HORIZONTAL).
4. INVERTED BUCKET TRAP. SEE SPECIFICATIONS.
5. UNION
6. CHECK VALVE
7. ROUTE HIGH PRESSURE CONDENSATE PIPING TO PUMPED CONDENSATE RETURN LINE.
8. DIRT LEG WITH CAP

C1 STEAM TRAP PIPING DETAIL
SCALE: NONE

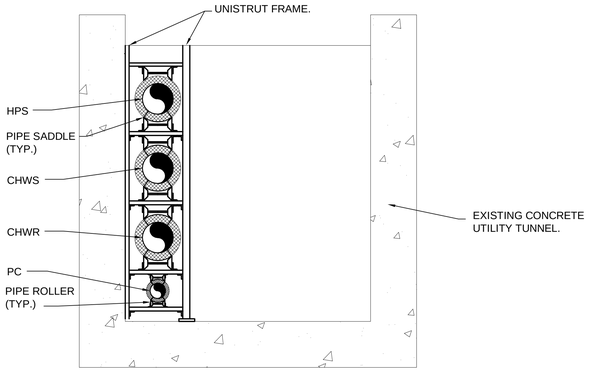




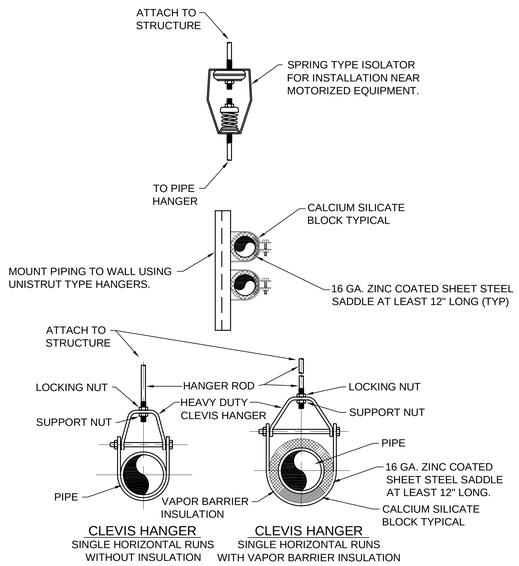
WHERE TUNNEL IS CAST IN PLACE:
5/8"Ø BOLTS, TYP. OF 6. 6" VERTICAL AND 6" HORIZONTAL. PROVIDE WITH NUT AND LOCKING WASHER.
WHERE TUNNEL IS PRECAST:
SHOOT ANCHORS INTO PRECAST CONCRETE USING HILTI OR EQUAL. COORDINATE WITH ARCHITECTURAL.



C4 STEAM AND CONDENSATE PIPE ANCHOR DETAIL
SCALE: NONE



A3 UNISTRUT FRAME DETAIL
SCALE: NONE



A3 CHILLED WATER INTERIOR PIPE HANGER DETAIL
SCALE: NONE

SUMP PUMP SCHEDULE

SYMBOL	SERVICE TYPE	GPM	FT. HD.	OUTLET SIZE	MOTOR		COMMENTS	SCHEDULE NOTES
					POWER	HP		
SP 1	SUBMERSIBLE	17	158	1-1/2"	115/1/60	1/4	LITTLE GIANT SP-14	1,2

1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. PROVIDE WITH 10' POWER CORD.
3. PROVIDE WITH AUDIBLE AND BMS ALARM.

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UTILITY TUNNEL
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PHASE 2

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REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

DATE:	15 OCTOBER 2008
DFCM PROJECT NO:	08100600
HFSA PROJECT NO:	0825.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	WP
DESIGNED BY:	STAFF
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL
DETAILS AND
SCHEDULES

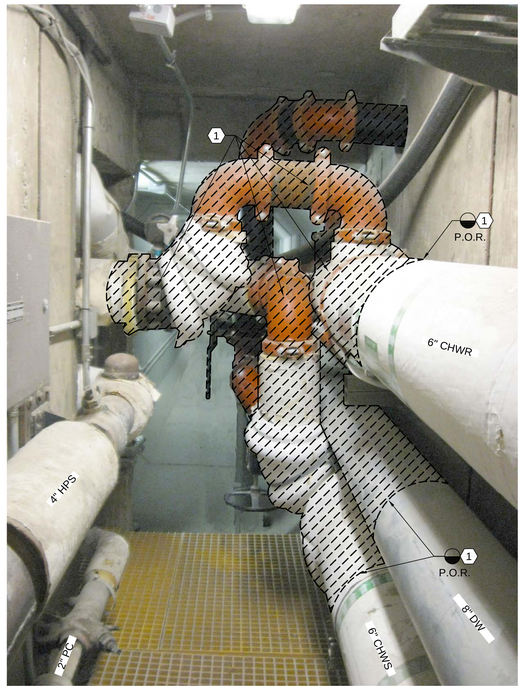
ME501

SHEET OF

D1 TYPICAL DETERIORATED INSULATION DETAIL
SCALE: NONE

C1 TYPICAL FAILED CLEVIS SUPPORT DETAIL
SCALE: NONE

A1 TYPICAL FAILED UNISTRUT DETAIL
SCALE: NONE



C3 ADMIN. BUILDING TUNNEL DETAIL
SCALE: NONE

A3 ADMIN. BUILDING TUNNEL DETAIL
SCALE: NONE

C4 CONSTRUCTION TRADES TUNNEL DETAIL
SCALE: NONE

A4 ADMIN. BUILDING TUNNEL DETAIL
SCALE: NONE

SHEET NOTES:

1. REMOVE PIPING AS SHOWN. SEE DETAIL SHEETS MD 401, ME401, AND ME402. PROVIDE ISOLATION VALVES FOR RE-CONNECTION AT POINT OF REMOVAL.
2. RE-CONNECT EXISTING CHWS TO NEW CHWR AND EXISTING CHWR TO NEW CHWS.

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UTILITY TUNNEL EXPANSION PHASE 2

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

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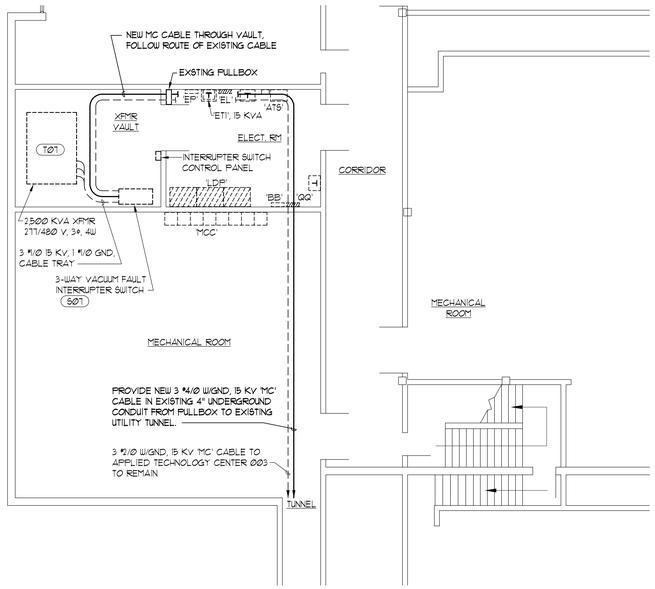
SHEET TITLE

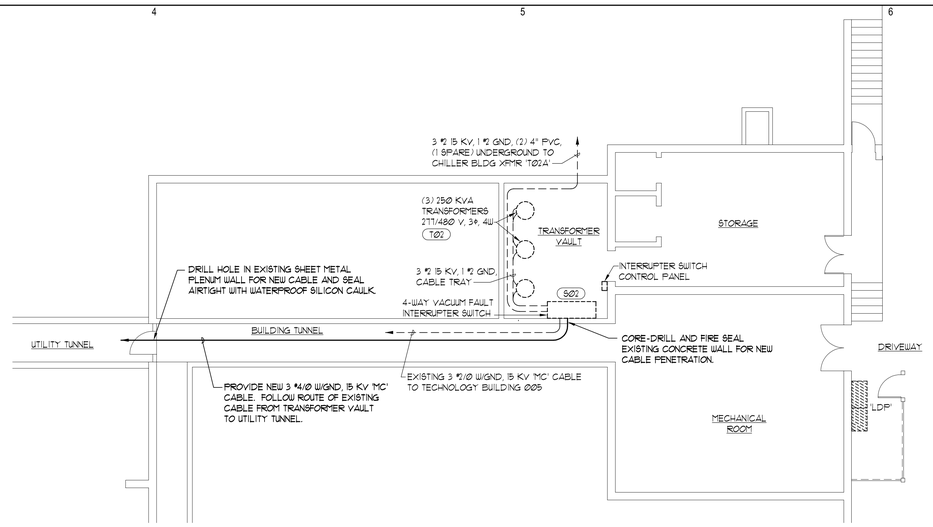
MECHANICAL DETAILS

ME502

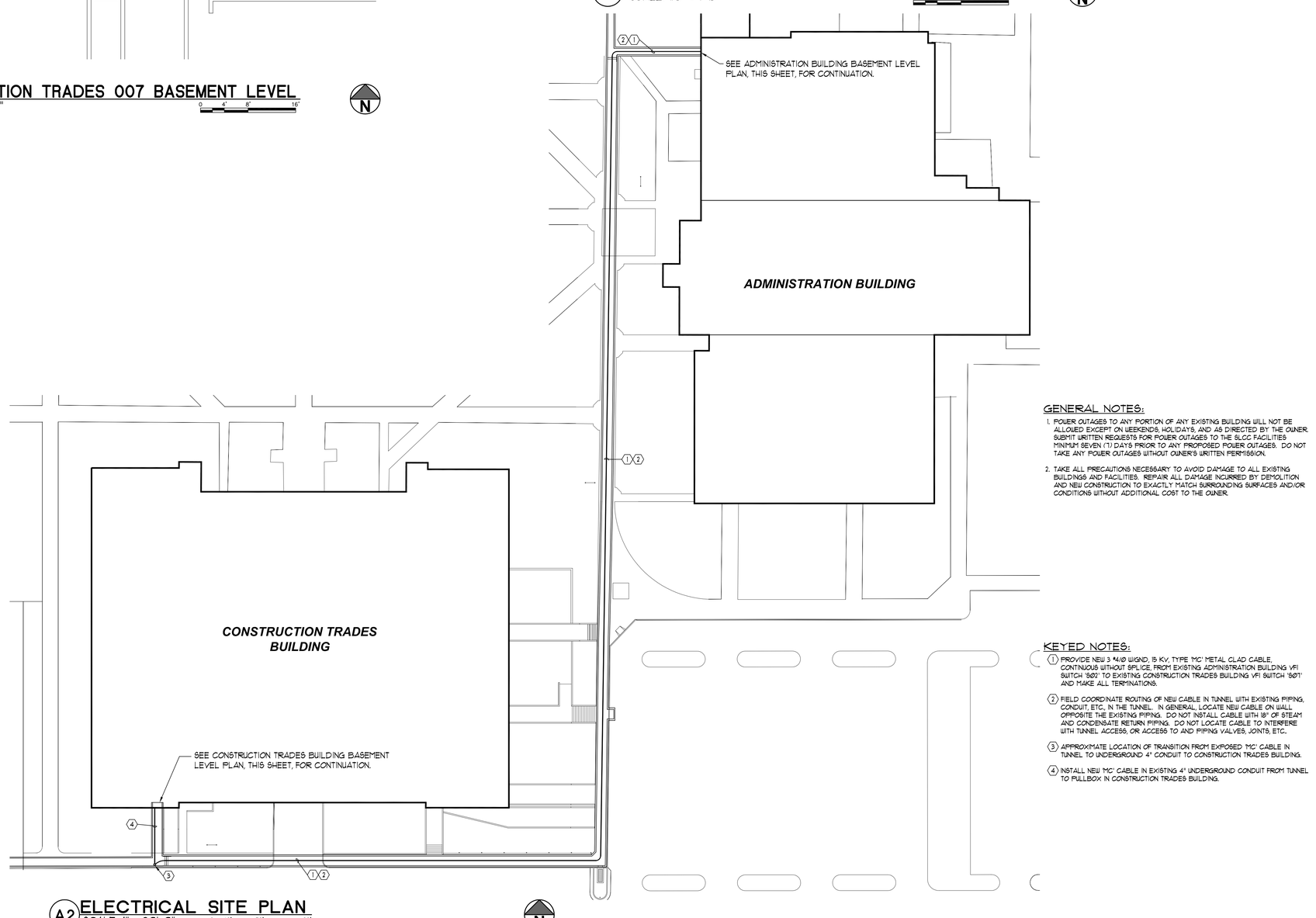
SHEET OF



D2 CONSTRUCTION TRADES 007 BASEMENT LEVEL
SCALE: 1/8" = 1'-Ø"



D4 ADMINISTRATION BUILDING 002 BASEMENT LEVEL
SCALE: 1/8" = 1'-Ø"



A2 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-Ø"

GENERAL NOTES:

1. POWER OUTAGES TO ANY PORTION OF ANY EXISTING BUILDING WILL NOT BE ALLOWED EXCEPT ON WEEKENDS, HOLIDAYS, AND AS DIRECTED BY THE OWNER. SUBMIT WRITTEN REQUESTS FOR POWER OUTAGES TO THE SLCC FACILITIES MINIMUM SEVEN (7) DAYS PRIOR TO ANY PROPOSED POWER OUTAGES. DO NOT TAKE ANY POWER OUTAGES WITHOUT OWNER'S WRITTEN PERMISSION.
2. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ALL EXISTING BUILDINGS AND FACILITIES. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER.

KEYED NOTES:

1. PROVIDE NEW 3 #4/0 W/GND, 15 KV, TYPE 'MC' METAL CLAD CABLE, CONTINUOUS WITHOUT SPLICE, FROM EXISTING ADMINISTRATION BUILDING VFI SWITCH 'S02' TO EXISTING CONSTRUCTION TRADES BUILDING VFI SWITCH 'S01' AND MAKE ALL TERMINATIONS.
2. FIELD COORDINATE ROUTING OF NEW CABLE IN TUNNEL WITH EXISTING PIPING, CONDUIT, ETC., IN THE TUNNEL. IN GENERAL, LOCATE NEW CABLE ON WALL OPPOSITE THE EXISTING PIPING. DO NOT INSTALL CABLE WITH 18" OF STEAM AND CONDENSATE RETURN PIPING. DO NOT LOCATE CABLE TO INTERFERE WITH TUNNEL ACCESS, OR ACCESS TO AND PIPING VALVES, JOINTS, ETC..
3. APPROXIMATE LOCATION OF TRANSITION FROM EXPOSED 'MC' CABLE IN TUNNEL TO UNDERGROUND 4" CONDUIT TO CONSTRUCTION TRADES BUILDING.
4. INSTALL NEW 'MC' CABLE IN EXISTING 4" UNDERGROUND CONDUIT FROM TUNNEL TO PULLBOX IN CONSTRUCTION TRADES BUILDING.

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UTILITY TUNNEL
EXPANSION
PHASE 2

SALT LAKE COMMUNTY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

DATE:	15 OCTOBER, 2008
DFCM PROJECT NO:	08100600
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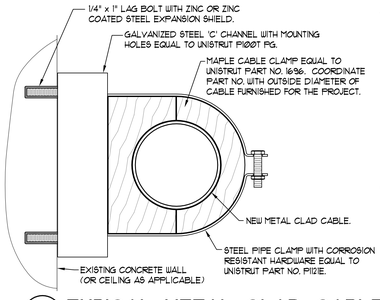
CAD DWG FILE NO:	0825 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

ELECTRICAL SITE AND BUILDING PLANS

E-101

SHEET 1 OF 2 (ELECT)



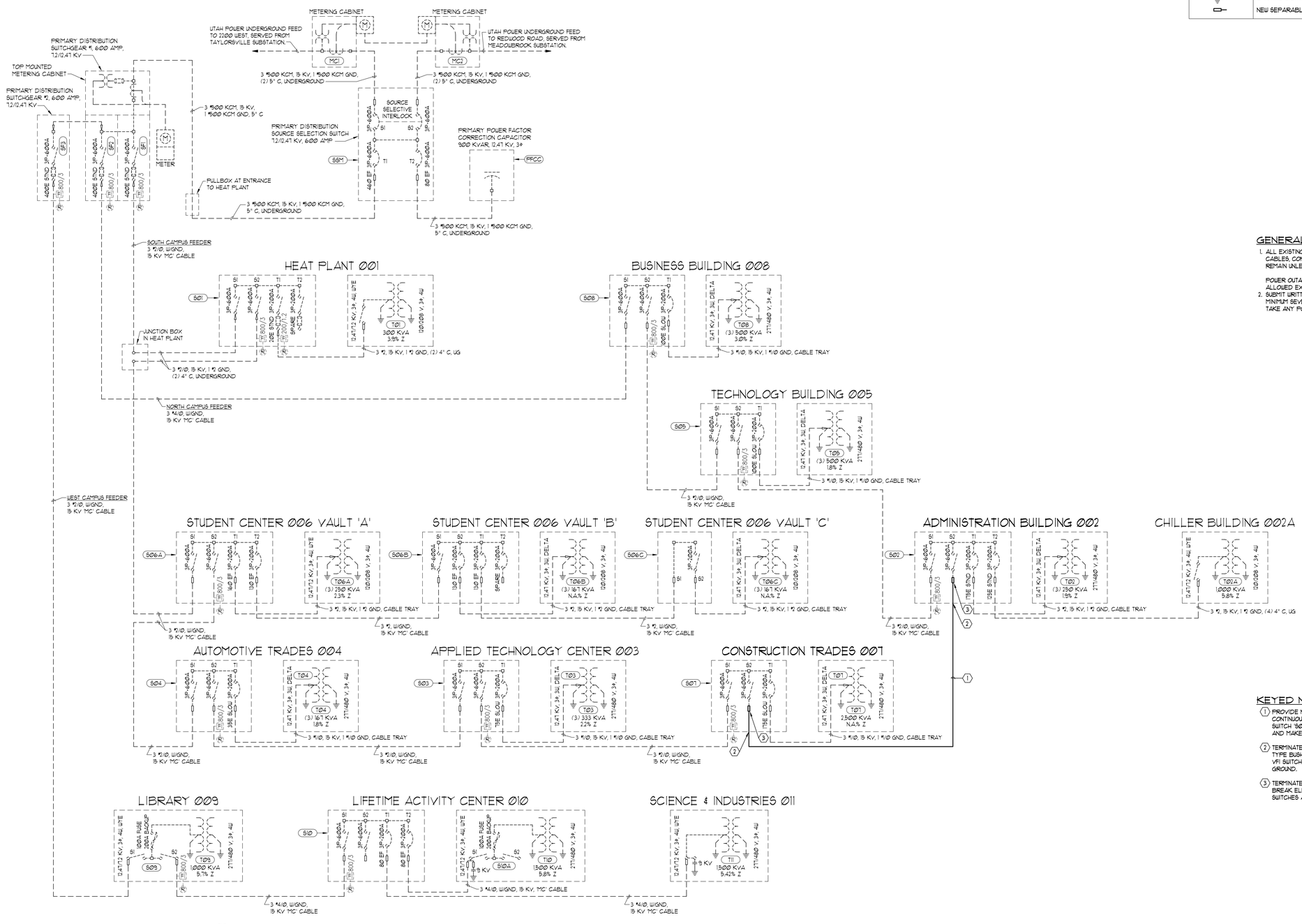
MC CABLE SUPPORT NOTES:

1. DO NOT USE SHOT ANCHORS OF ANY KIND.
2. EPOXY ANCHORS ARE ACCEPTABLE FOR SUBSTITUTE OF EXPANSION ANCHORS.
3. DRILL-IN ANCHORS ARE SUBJECT TO APPROVAL OF THE PROJECT ENGINEER.
4. SUPPORT DETAIL MAY BE MODIFIED TO SUIT CONDITIONS AT EACH SUPPORT LOCATION, SUBJECT TO APPROVAL OF PROJECT ENGINEER.
5. PROVIDE CABLE SUPPORTS AT MAXIMUM 6'-0" ON CENTER.
6. PROVIDE CABLE SUPPORTS WITHIN 12" OF WALL PENETRATIONS AND INSTALL CABLE CENTERED IN THE WALL OPENING.

E5 TYPICAL METAL CLAD CABLE SUPPORT DETAIL
SCALE: NONE

SYMBOL LIST

SYMBOL	DESCRIPTION
	EXISTING POWER PANELBOARD, 120/208 VOLT, 3 PHASE
	EXISTING POWER PANELBOARD, 277/480 VOLT, 3 PHASE
T	EXISTING TRANSFORMER
	NEW CIRCUIT OR RACEWAY
	EXISTING CIRCUIT OR RACEWAY
T02	PRIMARY DISTRIBUTION EQUIPMENT SYMBOL
1	KEYED NOTE SYMBOL
FI	EXISTING FAULTED CIRCUIT INDICATOR SENSORS (ONE-LINE DIAGRAM)
R	EXISTING REMOTE DISPLAY FOR FAULTED CIRCUIT INDICATOR (ONE LINE DIAGRAM)
	EXISTING INTERRUPTER SWITCH (ONE-LINE DIAGRAM)
	EXISTING FUSED INTERRUPTER SWITCH (ONE-LINE DIAGRAM)
	EXISTING ELECTRONIC TRIP INTERRUPTER SWITCH (ONE-LINE DIAGRAM)
	EXISTING TRANSFORMER BAYONET FUSING (ONE-LINE DIAGRAM)
	EXISTING STRESS CONE TERMINATION (ONE-LINE DIAGRAM)
	EXISTING SEPARABLE CONNECTOR TERMINATION (ONE-LINE DIAGRAM)
9 KV	EXISTING LIGHTNING ARRESTOR INDICATING VOLTAGE (ONE-LINE DIAGRAM)
	NEW SEPARABLE CONNECTOR TERMINATION (ONE-LINE DIAGRAM)



A1 SLCC REDWOOD ROAD CAMPUS PRIMARY ONE-LINE DIAGRAM
SCHEMATIC

GENERAL NOTES:

1. ALL EXISTING PRIMARY DISTRIBUTION SYSTEM SWITCHGEAR, TRANSFORMERS, CABLES, CONDUCTORS, ETC., ARE SHOWN FOR REFERENCE ONLY AND ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

   POWER OUTAGES TO ANY PORTION OF ANY EXISTING BUILDING WILL NOT BE ALLOWED EXCEPT ON WEEKENDS, HOLIDAYS, AND AS DIRECTED BY THE OWNER.
2. SUBMIT WRITTEN REQUESTS FOR POWER OUTAGES TO THE SLCC FACILITIES MINIMUM SEVEN (7) DAYS PRIOR TO ANY PROPOSED POWER OUTAGES. DO NOT TAKE ANY POWER OUTAGES WITHOUT OWNER'S WRITTEN PERMISSION.

KEYED NOTES:

1. PROVIDE NEW 3 #4/0 W/GND, 15 KV, TYPE 'MC' METAL CLAD CABLE, CONTINUOUS WITHOUT SPLICE, FROM EXISTING ADMINISTRATION BUILDING VFI SWITCH '502' TO EXISTING CONSTRUCTION TRADES BUILDING VFI SWITCH '507' AND MAKE ALL TERMINATIONS.
2. TERMINATE 'MC' CABLE IN TRANSFORMER VAULT WITH SUITABLE GROUNDING TYPE BUSHING. EXTEND SINGLE MEDIUM VOLTAGE CONDUCTORS TO EXISTING VFI SWITCH. EXTEND GROUND CONDUCTORS TO EXISTING TRANSFORMER VAULT GROUND.
3. TERMINATE NEW MEDIUM VOLTAGE CONDUCTORS WITH 15 KV, 600 AMP, DEAD BREAK ELBOWS AND CONNECT TO EXISTING SWITCH AS INDICATED. EXISTING SWITCHES ARE TO REMAIN IN THE OPEN POSITION.

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SHEET TITLE

ONE-LINE DIAGRAM, DETAILS, AND SYMBOL LIST

E-601

SHEET 2 OF 2 (ELECT)