

2008 UNIVERSITY OF UTAH ECCLES INSTITUTE OF HUMAN GENETICS REROOF

15 NORTH 2030 EAST / SALT LAKE CITY / UT 84112

CONSTRUCTION DOCUMENTS

DATE: 01/18/08



STATE OF UTAH

DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 801.538.3018 / www.dfc.state.ut.us

DFCM PROJECT NO. 07127750

ARCHITECT:
SCOTT P. EVANS, AIA



**SCOTT P. EVANS - ARCHITECT
& ASSOCIATES P.C.**

108 WEST CENTER STREET / BOUNTIFUL, UTAH 84010 /
801.298.1368 / www.spe-architect.com

ELECTRICAL ENGINEER:
DAVID L. AFFLECK



SPECTRUM ENGINEERS

WALKER BANK BUILDING 175 SOUTH MAIN STREET
300 SALT LAKE CITY, UTAH 84111 /
801.355.5151 / www.spectrum-engineers.com

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
AL.	ALUMINUM
ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT
&	AND
L	ANGLE
APPD.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT OR ARCHITECTURAL
AC	ARCHITECTURAL CONCRETE
AVG.	AVERAGE
@	AT
BM	BEAM
BLKG.	BLOCKING
BOT.	BOTTOM
BRKT.	BRACKET
BLDG.	BUILDING
CSMU	CALCIUM SILICATE MASONRY UNIT
C.B.	CATCH BASIN
CTR.	CENTER
CL	CENTERLINE
C TO C	CENTER TO CENTER
	CHANNEL
C.O.	CLEANOUT
COL.	COLUMN
COMP.	COMPOSITION
C.M.U.	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CSK.	COUNTERSINK
CU.	CUBIC
CU. FT.	CUBIC FOOT
CFM	CUBIC FEET PER MINUTE
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DEPT.	DEPARTMENT
DIAG.	DIAGONAL
∅	DIAMETER
DM.	DIMENSION
DBL.	DOUBLE
DWG.	DRAWING
ELEC.	ELECTRICAL
EW	ELECTRIC WATER COOLER
EL.	ELEVATION
EQUIP.	EQUIPMENT
EJ/EXP. JT.	EXPANSION JOINT
EIFS	EXTERIOR INSULATION FINISH SYSTEM
F.S.	FAR SIDE
FT. or '	FEET OR FOOT
F.V.	FIELD VERIFY
F.F.	FINISH FLOOR
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
FRT	FIRE RETARDANT TREATED
FD	FLOOR DRAIN
FLUOR.	FLUORESCENT
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
G.A.	GAGE OR GAUGE
GSU	GLAZED STRUCTURAL UNIT
GYP. BD.	GYPSUM BOARD
HDW.	HARDWARE
HGT.	HEIGHT
HSB	HIGH STRENGTH BOLT
HORIZ.	HORIZONTAL
"	INCH
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INTER.	INTERMEDIATE
K	KIP (1,000 LB.)
LAB.	LABORATORY
MFG.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NBFU	NATIONAL BOARD OF FIRE UNDERWRITERS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. or #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
d	PENNY
/	PER
PERP.	PERPENDICULAR
∅	PHASE
LB. or #	POUND
PREFAB.	PREFABRICATED
PL	PROPERTY LINE
R	RADIUS
REINF.	REINFORCING
REQ'D.	REQUIRED
REV.	REVISION
R&S	ROD & SHELF
RD	ROOF DRAIN
RM	ROOM
RD. or ∅	ROUND
SHT.	SHEET
SIM.	SIMILAR
SAB	SOUND ATTENUATION BLANKET
SPEC.	SPECIFICATION
SQ. or	SQUARE
SYM.	SYMMETRICAL
SSEIS	SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM
T.O.M.	TOP OF MASONRY
T.B.C.	TOP BACK OF CURB
T.L.	TOP OF LANDSCAPING
T.W.	TOP OF WALK
TOS	TOP OF STEEL
T.O.P.W.	TOP OF PARAPET WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VWC.	VINYL WALL COVERING
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

MATERIAL DESIGNATIONS

	EARTH
	ASPHALT
	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK
	CAST STONE
	WOOD (FINISH)
	WOOD (STUDS, NAILERS)
	WOOD (BLOCKING)
	PLYWOOD
	BATT INSULATION
	ACOUSTIC TILE
	GYPSUM BOARD
	STEEL
	PARTICLE BOARD
	RIGID INSULATION

GRAPHIC SYMBOLS

	DETAIL/WALL or SECTION NUMBER
	SHEET NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	ROOM NAME
	ROOM NUMBER
	REVISION NUMBER
	DETAIL, WALL or SECTION NUMBER
	SHEET NUMBER
	GRID REFERENCE
	REFERENCE NORTH (PLANS)
	ELEVATION REFERENCE
	KEYED NOTE NUMBER
	INTERIOR ELEVATION MARKER
	WALL TYPES
	DRAWINGS REVISION
	REVISION NUMBER

CODE ANALYSIS

APPLICABLE CODES		
	Original Year	Year
UBC	1985	2002
Mechanical Code	?	Uniform Code for
Plumbing Code	?	Building Conservation
Fire Code	?	ADA Accessibility
International Energy Conservation Code		Guidelines

A. Original Occupancy and Group: **B-2**

Change in Use: Yes No Mixed Occupancy: Yes No

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

B. Seismic Design Category: **N.A.** Design Wind Speed: **90** mph

C. Type of Construction: **Original I-FR**

D. Roof Structure is Concrete and is Fire Resistant

E. New Membrane is to be Class B per 2006 IBC Table 1505.1

DRAWING INDEX

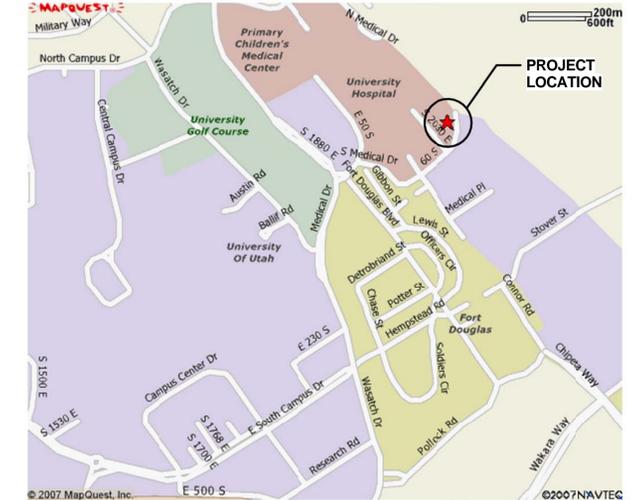
SHT. #	DRAWING TITLE
GI-001	GENERAL:
GI-002	TITLE SHEET
	GENERAL INFORMATION
	ARCHITECTURAL:
AS-101	SITE PLAN
AE-101	ROOF PLAN
AE-102	ROOF PLAN (LOCATION OF WALK PADS)
AE-103	REFERENCE ELEVATIONS
AE-501	DETAILS
AE-502	DETAILS
AE-503	DETAILS
	ELECTRICAL:
EE-001	SYMBOL LEGEND & SHEET INDEX
EE-101	ROOF HEAT TRACE PLAN



B4 PROJECT PHOTO
SCALE: NONE



A3 VICINITY MAP
SCALE: NONE



A4 LOCATION MAP
SCALE: NONE



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108 West Center Street
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SPE PROJECT #: 07-09
DRAWN BY: JBE
CHECKED BY: SPE
DESIGNED BY: SPE

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SHEET TITLE

**GENERAL
INFORMATION**

SHEET NUMBER:

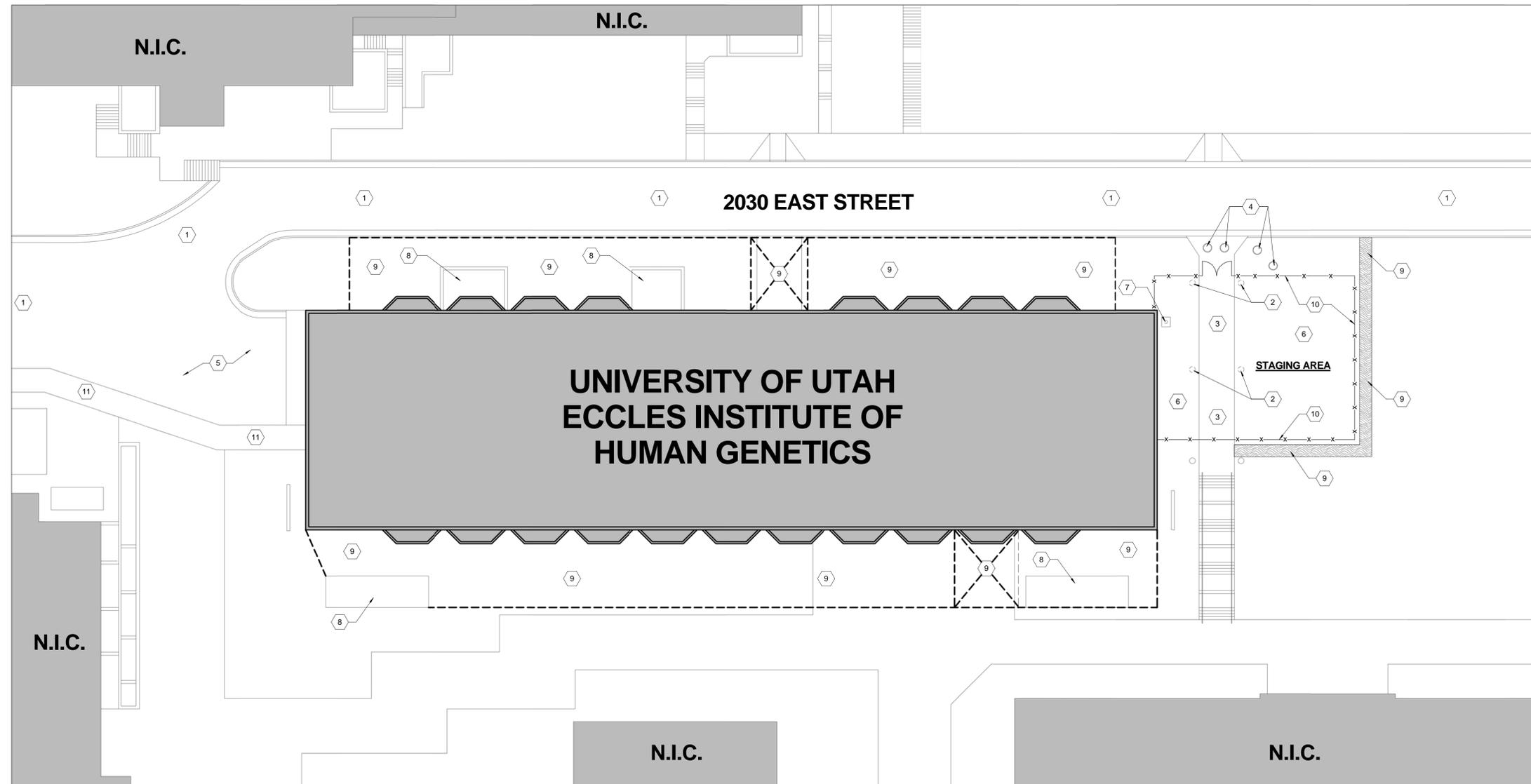
GI-002

GENERAL SITE NOTES

1. ALL WORK WILL HAVE TO BE STAGED FROM THE NORTH OR SOUTH ENDS OF THE BUILDING.
2. ANY CRANE WORK SHOULD BE LIMITED TO THE HOURS OF 0600 TO 1800 HOURS, OR FROM 1800 TO 0600 HOURS, THE LATTER TIME BEING OPTIMAL FOR ACCESS TO THE BUILDINGS IN THE AREA.
3. CONTRACTOR'S STAGING AREA IS TO BE PROVIDED WITH A SECURE, LOCKED, 6'-0" OR 8'-0" (PER IBC 3306) TALL TEMPORARY CHAIN LINK FENCE. STAGING AREA SHALL NOT BLOCK DOORS, DOCKS, SIDEWALKS ETC. ALL GAPS IN FENCE TO BE MAINTAINED LESS THAN 4". REMOVE AND SECURE ALL LADDERS AT THE END OF EACH DAY. DUMPSTER MUST BE KEPT IN LOCKED FENCED AREA - COMPLY WITH IBC 3306.
4. PROTECT ALL EXISTING IMPROVEMENTS INCLUDING LANDSCAPING, SPRINKLING SYSTEMS, SIDEWALKS, PARKING AREAS, SURROUNDING ROOFS ETC. - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION (TO THE SATISFACTION OF THE OWNER AND ARCHITECT).
5. SAFETY ZONES SHOULD BE ESTABLISHED WHEN WORK IS BEING DONE ON THE BAY LEDGES TO AVOID INJURY FROM ANY FALLING MATERIALS.
6. SAFETY ZONES SHOULD BE ESTABLISHED WHEN WORK IS BEING DONE ON THE NORTH AND SOUTH EDGES OF THE BUILDING TO AVOID INJURY FROM ANY FALLING MATERIALS.
7. ACCESS INTO THE BUILDING WILL BE LIMITED TO THE SOUTH AND NORTH STAIRWELLS - ELEVATOR USE WILL BE LIMITED TO THE NORTH FREIGHT ELEVATOR ONLY.
8. AVOID BLOCKING ACCESS TO THE TWO ENTRANCES ON THE WEST SIDE OF THE BUILDING FOR PROLONGED PERIODS OF TIME - THE EAST MAIN ENTRANCE SHALL NEVER HAVE ACCESS RESTRICTED TO THE OCCUPANTS.

KEYED NOTES

- 1 THIS ROAD IS A FIRE LINE AND ALSO A ENTRANCE/EXIT FOR THE EMERGENCY ROOM AT THE HOSPITAL - IT CAN NEVER BE BLOCKED OR HAVE RESTRICTED ACCESS.
- 2 TEMPORARILY REMOVE EXTG. LIGHT POLES TO CLEAR SPACE FOR CRANE ACCESS - REINSTALL EXTG. LIGHT POLES AS REQUIRED - REMOVAL & REINSTALLATION OF LIGHT POLES SHALL BE DONE BY QUALIFIED LICENSED ELECTRICIAN ONLY.
- 3 PLYWOOD SHEETING SHALL BE LAID OVER THE EXTG. SIDEWALK IN THIS AREA TO PROTECT IT FROM DAMAGE OR FLUID SPILLS DURING THE PROJECT.
- 4 THESE (4) MANHOLES CANNOT BE OBSTRUCTED DURING THIS PROJECT - ACCESS TO THEM MUST BE KEPT AT ALL TIMES.
- 5 THE LOADING DOCK ON THE NORTH END OF THE BUILDING WILL BE OFF LIMITS TO THE PROJECT FROM 0500 TO 1800 HOURS - THIS COULD BE USED AS STAGING AREA FROM 1800 TO 0500 HOURS FOR WORK ON THE NORTH END OR THE BUILDING.
- 6 SETUP FOR THE CRANE PICKS COULD BE ON THE LAWN SOUTH OF THE BUILDING - THE CONTRACTOR IS TO PROTECT ALL EXISTING IMPROVEMENTS INCLUDING LANDSCAPING, SPRINKLING SYSTEMS, SIDEWALKS, PARKING AREAS, SURROUNDING ROOFS ETC. - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION (TO THE SATISFACTION OF THE OWNER AND ARCHITECT).
- 7 EXTG. SPRINKLER CLOCK TO BE PROTECTED FROM DAMAGE - IT CANNOT BE REMOVED DURING THE PROJECT.
- 8 CARE SHOULD BE TAKEN TO AVOID PLACING POWER EQUIPMENT IN THE AREAS AROUND THE AIR INTAKES LOCATED ON THE SOUTHWEST, NORTHWEST AND CENTRAL EAST SECTION OF THE BUILDING.
- 9 PROVIDE PROTECTION OF PEDESTRIANS PER IBC 3306.
- 10 PROVIDE A SECURE, LOCKED, 6'-0" OR 8'-0" (PER IBC 3306) TALL TEMPORARY CHAIN LINK FENCE - ALL GAPS IN FENCE TO BE MAINTAINED LESS THAN 4".
- 11 SKY BRIDGE PROTECT FROM DAMAGE DURING CONSTRUCTION.



A1 SITE PLAN
1" = 20'-0"

ARCHITECTS INFORMATION

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
Telephone - 801.298.1368
Telefax - 801.298.2192
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SHEET TITLE
SITE PLAN

SHEET NUMBER:
AS-101

Last Plotted: 1/22/2008 9:21:31 AM



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ROOF PLAN

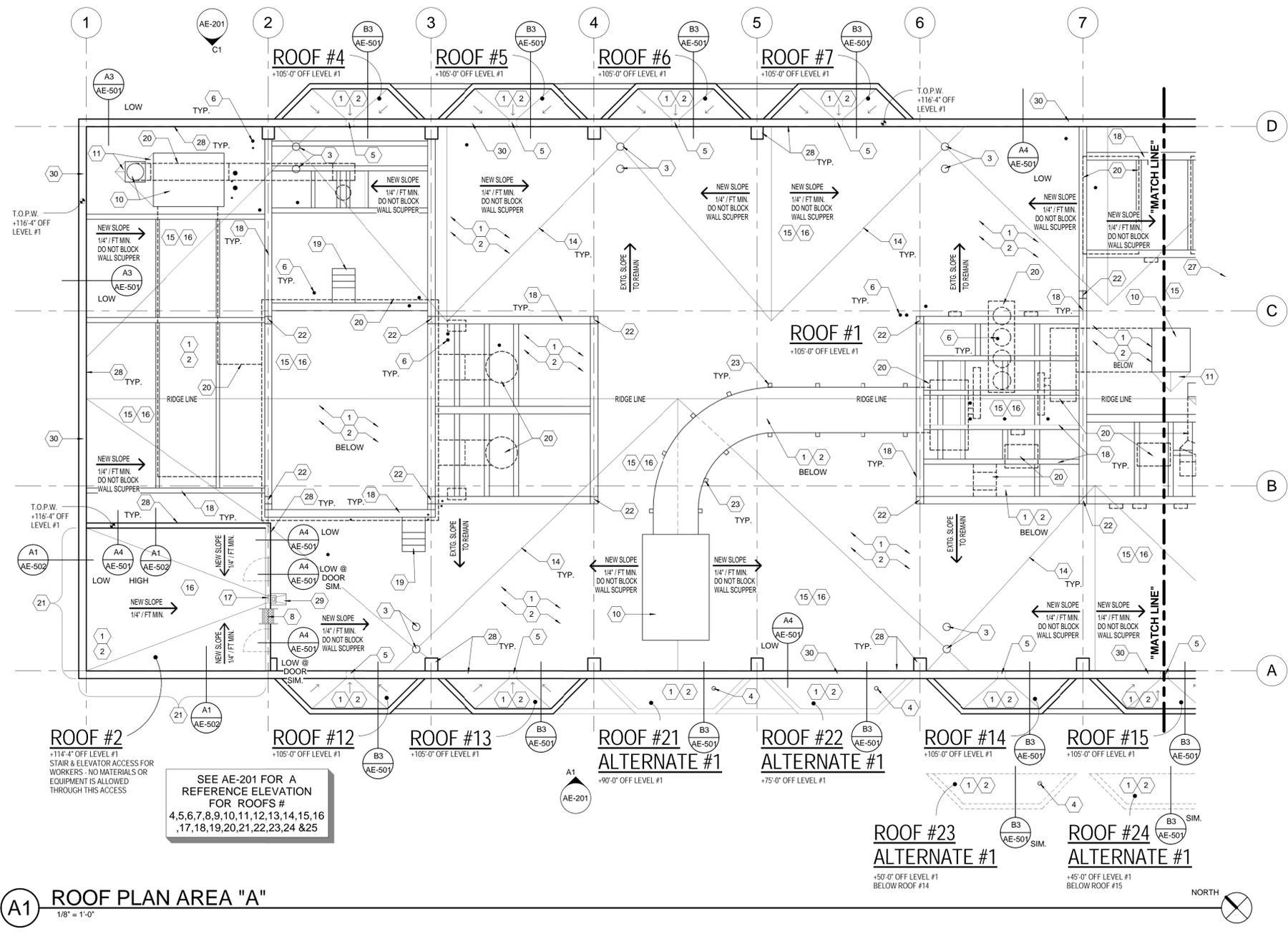
SHEET NUMBER:
AE-101

GENERAL NOTES

- LEVEL #1 = 0'-0" FIRST FLOOR.
- LIGHTNING PROTECTION CABLING & RODS ARE NOT SHOWN FOR CLARITY - SEE KEYED NOTE #15 & 16
- ALL NEW CURBS ARE TO BE CONSTRUCTED LEVEL.
- ALL NEW WOOD THAT COMES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED.
- IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL OF THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER FOR THE 20 YEAR WARRANTY.
- CONTRACTOR'S STAGING AREA IS TO BE PROVIDED WITH A SECURE, LOCKED, 6'-0" TALL TEMPORARY CHAIN LINK FENCE, STAGING AREA SHALL NOT BLOCK DOORS, DOCKS, SIDEWALKS ETC. ALL GAPS IN FENCE TO BE MAINTAINED LESS THAN 4". REMOVE AND SECURE ALL LADDERS AT THE END OF EACH DAY. DUMPSTER MUST BE KEPT IN LOCKED FENCED AREA.
- PROTECT ALL EXISTING IMPROVEMENTS INCLUDING LANDSCAPING, SPRINKLING SYSTEMS, SIDEWALKS, PARKING AREAS, SURROUNDING ROOFS ETC. - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION (TO THE SATISFACTION OF THE OWNER AND ARCHITECT).
- THE CONTRACTOR IS TO COMPLY WITH ALL OSHA RULES & REGULATION FOR SAFETY.
- TIMING FOR THE REMOVAL & REINSTALLATION OF ALL HVAC UNITS IS TO BE COORDINATED WITH OWNER/USER & ARCHITECT.
- REFER TO SHEET AE-103 FOR LOCATION OF NEW WALK PADS.

KEYED NOTES (APPLIES TO AE-101 & AE-102)

- EXTG. SINGLE PLY ROOFING, INSULATION, BALLASTED GRAVEL WHERE OCCURS, LIGHT WEIGHT INSULATED CONCRETE PAVERS & CONCRETE WALKPADS & ALL RELATED MATERIALS TO BE REMOVED DOWN TO THE BEAR DECK UNLESS NOTED OTHERWISE - REFER TO NEW VS EXTG. DETAIL A1/AE-501.
- NEW FULLY ADHERED SINGLE PLY MEMBRANE SYSTEM - WITH INSULATION & TAPERED INSULATION - REFER TO NEW VS EXTG. DETAIL A1/AE-501.
- EXTG. PRIMARY & SECONDARY ROOF DRAIN SYSTEMS TO REMAIN - REFER TO DETAIL C4/AE-503 - PROVIDE NEW CAST IRON ROOF DRAIN DOME TYPICAL
- EXTG. PRIMARY ROOF DRAIN SYSTEMS TO REMAIN - REFER TO DETAIL C1/AE-503 - RECAULK ANY OLD WORN LEADED FITTING AS AND IF REQUIRED.
- EXTG. THRU-THE-WALL SCUPPERS TO REMAIN - FLASH PER DETAIL A2/AE-502.
- EXTG. PIPE/VENT/CONDUIT (SHOWN AS SOLID CIRCLE TYP) TO REMAIN - PROVIDE EXTENSIONS FOR PIPES AND IF REQUIRED TO GIVE A MIN. OF 12" FROM TOP OF PIPE TO NEW ROOFING SURFACE - REFER TO DETAIL B2/AE-502.
- PROVIDE NEW ROOF-TO-ROOF LADDER - PER DETAIL A2/AE-503 - PROVIDE NEW 30"X30" WALK PAD @ TOP & BOTTOM OF ALL NEW LADDERS - SEE AE-103 FOR ALL WALK PADS - F.V. ACTUAL ROOF-TO-ROOF HEIGHT.
- PROVIDE NEW ROOF-TO-ROOF LADDER - PER DETAIL A3/AE-503 - PROVIDE NEW 30"X30" WALK PAD @ TOP & BOTTOM OF ALL NEW LADDERS - SEE AE-103 FOR ALL WALK PADS - F.V. ACTUAL ROOF-TO-ROOF HEIGHT.
- EXTG. BUILDING EXPANSION JOINT TO REMAIN & FLASH PER DETAIL INDICATED.
- EXTG. MECHANICAL UNIT ON CURBS TO REMAIN - TEMPORARILY REMOVE UNIT SET ASIDE FOR REINSTALLATION AS & IF REQUIRED & - RAISE CURB AS REQUIRED TO ACHIEVE 8" MIN. DIM. FROM TOP OF CURB TO SURFACE OF NEW ROOFING - REINSTALL UNIT - REMOVAL & REINSTALLATION OF POWERED UNITS SHALL BE DONE BY QUALIFIED LICENSED MECHANICS ONLY - REFER TO DETAIL D4/AE-502.
- NEW TAPERED INSULATION CRICKET - ALL CRICKETS ARE TO SLOPE A MINIMUM OF 1/4"/FT. - SEE SPEC.
- EXTG. PIPES TO REMAIN & EXTG. PITCH POCKET TO BE REMOVED FLASH PER DETAIL B4/AE-502.
- EXTG. ROOF HATCH/SCUTTLE ON EXTG. CURB (PAINT HATCH - SEE SPEC. - PROVIDE NEW PAINTED STEEL ROOF ACCESS GUARD - REFER TO DETAIL C5/AE-501.
- NEW TAPERED INSULATION SYSTEM SLOPE 1/4" PER FT. MIN.
- REMOVE EXTG. LIGHTNING PROTECTION CABLE CONNECTION PLATES THAT ARE CURRENTLY ATTACHED TO THE ROOF - INSTALL NEW MEMBRANE STRAPS PER DETAIL D4/AE-503.
- EXTG. LIGHTNING PROTECTION RODS & CABLES TO BE TEMPORARILY REMOVED AS REQUIRED TO INSTALL NEW ROOFING, FLASHING, METAL WALL CAP ETC. - REINSTALL ENTIRE LIGHTNING PROTECTION SYSTEM AS REQUIRED - PROVIDE A SEPARATOR (WALKPAD) BETWEEN THE ROOF AND THE CABLE WHEREVER THEIR IS A SPLICE IN THE CABLE THAT IS IN CONTACT WITH THE ROOF - PROVIDE A SEPARATOR (WALKPAD) WHEREVER THE CABLE COMES IN CONTACT WITH ALUMINUM - RODS & CABLES ARE NOT SHOWN FOR CLARITY.
- EXTG. THRU-THE-WALL SCUPPERS TO REMAIN PROVIDE NEW 12"W 8"D RAIN WATER CONDENSATE HEAD & DOWNSPOUTS - PROVIDE HEAT TRACE SYSTEM - SEE ELECTRICAL DRAWINGS - SEE DETAIL C2/AE-503.
- RAISED STEEL BEAM GRID TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. STEEL PORTABLE STAIR TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. MECHANICAL UNITS ON TOP OF EXTG. STEEL BEAM GRID TO REMAIN SHOWN WITH DASHED LINES - ALL UNITS & PIPING ARE NOT SHOWN FOR CLARITY - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- TEMPORARILY REMOVED EXTG. WALL CAP METAL IN THIS AREA TO INSTALL NEW ROOFING - REINSTALL EXTG. WALL CAP METAL AS REQUIRED.
- STEEL COLUMN BENEATH STEEL BEAM GRID - FLASH COLUMN PER DETAIL C2/AE-501.
- EXTG. STEEL SUPPORT LEGS TO REMAIN - FLASH PER DETAIL D1/AE-503 - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. CONCRETE SHAFT TO REMAIN FLASH PER DETAIL A3/AE-501.
- EXTG. FIRE DEPARTMENT CONNECTION VALUES TO REMAIN - FLASH PER DETAIL A5/AE-502 SIM.
- EXTG. FIRE DEPARTMENT CONNECTION VALUES TO REMAIN - FLASH PER DETAIL B4/AE-502 SIM.
- PROVIDE NEW RAIN GUTTER AND DOWNSPOUT - PROVIDE HEAT TRACE SYSTEM - SEE ELECTRICAL DRAWINGS - REFER TO THE DETAIL INDICATED.
- ALTERNATE #2
APPLY A CONCRETE/CMU SEALER ON THE INTERIOR SIDE OF THE ALL PARAPET WALLS/CONCRETE COLUMNS & ELEVATOR PENTHOUSES - SEE SPEC.
- PROVIDE A CONCRETE SPLASH BLOCK ON WALKPAD MATERIAL BELOW DOWNSPOUT AS SHOWN.
- EXTG. WALL CAP METAL TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.



SEE AE-201 FOR A REFERENCE ELEVATION FOR ROOFS # 4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24 & 25

A1 ROOF PLAN AREA "A"
1/8" = 1'-0"

A4 KEY PLAN
1" = 40'-0"



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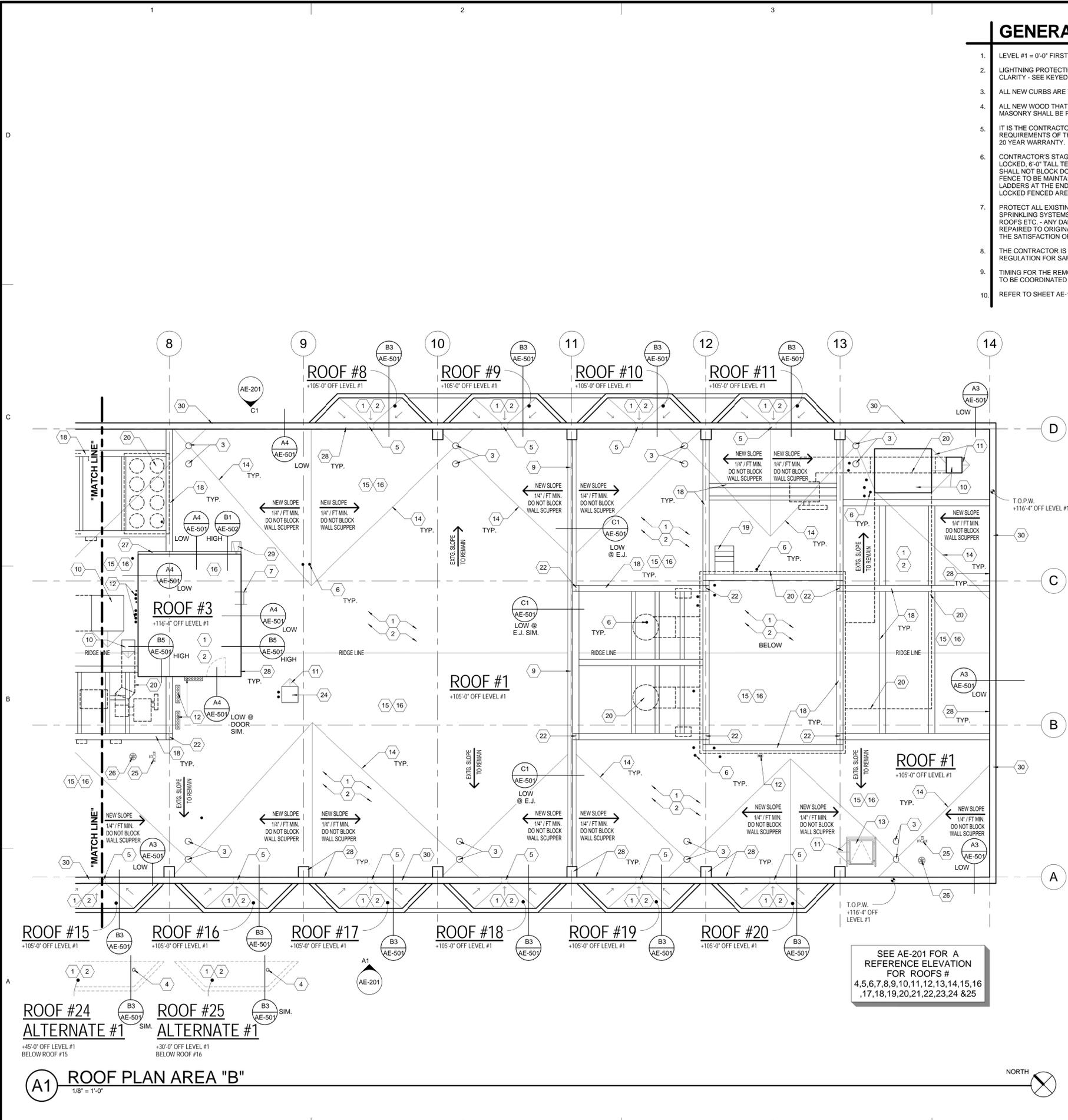
AE-102

GENERAL NOTES

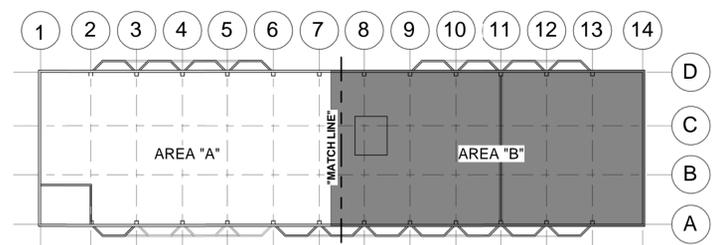
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- EXTG. SINGLE PLY ROOFING, INSULATION, BALLASTED GRAVEL WHERE OCCURS, LIGHT WEIGHT INSULATED CONCRETE PAVERS & CONCRETE WALKPADS & ALL RELATED MATERIALS TO BE REMOVED DOWN TO THE BEAR DECK UNLESS NOTED OTHERWISE - REFER TO NEW VS EXTG. DETAIL A1/AE-501.
- NEW FULLY ADHERED SINGLE PLY MEMBRANE SYSTEM - WITH INSULATION & TAPERED INSULATION - REFER TO NEW VS EXTG. DETAIL A1/AE-501.
- EXTG. PRIMARY & SECONDARY ROOF DRAIN SYSTEMS TO REMAIN - REFER TO DETAIL C4/AE-503 - PROVIDE NEW CAST IRON ROOF DRAIN DOME TYPICAL
- EXTG. PRIMARY ROOF DRAIN SYSTEMS TO REMAIN - REFER TO DETAIL C1/AE-503 - RECAULK ANY OLD WARM LEADED FITTING AS AND IF REQUIRED.
- EXTG. THRU-THE-WALL SCUPPERS TO REMAIN - FLASH PER DETAIL A2/AE-502.
- EXTG. PIPE/VENT/CONDUIT (SHOWN AS SOLID CIRCLE TYP) TO REMAIN - PROVIDE EXTENSIONS FOR PIPE AS AND IF REQUIRED TO GIVE A MIN. OF 12" FROM TOP OF PIPE TO NEW ROOFING SURFACE - REFER TO DETAIL B2/AE-502.
- PROVIDE NEW ROOF-TO-ROOF LADDER - PER DETAIL A2/AE-503 - PROVIDE NEW 30"X30" WALK PAD @ TOP & BOTTOM OF ALL NEW LADDERS - SEE AE-103 FOR ALL WALK PADS - F.V. ACTUAL ROOF-TO-ROOF HEIGHT.
- PROVIDE NEW ROOF-TO-ROOF LADDER - PER DETAIL A3/AE-503 - PROVIDE NEW 30"X30" WALK PAD @ TOP & BOTTOM OF ALL NEW LADDERS - SEE AE-103 FOR ALL WALK PADS - F.V. ACTUAL ROOF-TO-ROOF HEIGHT.
- EXTG. BUILDING EXPANSION JOINT TO REMAIN & FLASH PER DETAIL INDICATED.
- EXTG. MECHANICAL UNIT ON CURBS TO REMAIN - TEMPORARILY REMOVE UNIT SET ASIDE FOR REINSTALLATION AS & IF REQUIRED - RAISE CURB AS REQUIRED TO ACHIEVE 8" MIN. DIM. FROM TOP OF CURB TO SURFACE OF NEW ROOFING - REINSTALL UNIT - REMOVAL & REINSTALLATION OF POWERED UNITS SHALL BE DONE BY QUALIFIED LICENSED MECHANICS ONLY - REFER TO DETAIL D4/AE-502.
- NEW TAPERED INSULATION CRICKET - ALL CRICKETS ARE TO SLOPE A MINIMUM OF 1/4"/FT. - SEE SPEC.
- EXTG. PIPES TO REMAIN & EXTG. PITCH POCKET TO BE REMOVED FLASH PER DETAIL B4/AE-502.
- EXTG. ROOF HATCH/SCUTTLE ON EXTG. CURB (PAINT HATCH - SEE SPEC. - PROVIDE NEW PAINTED STEEL ROOF ACCESS GUARD - REFER TO DETAIL C5/AE-501.
- NEW TAPERED INSULATION SYSTEM SLOPE 1/4" PER FT. MIN.
- REMOVE EXTG. LIGHTNING PROTECTION CABLE CONNECTION PLATES THAT ARE CURRENTLY ATTACHED TO THE ROOF - INSTALL NEW MEMBRANE STRAPS PER DETAIL D4/AE-503.
- EXTG. LIGHTNING PROTECTION RODS & CABLES TO BE TEMPORARILY REMOVED AS REQUIRED TO INSTALL NEW ROOFING, FLASHING, METAL WALL CAP ETC. - REINSTALL ENTIRE LIGHTNING PROTECTION SYSTEM AS REQUIRED - PROVIDE A SEPARATOR (WALKPAD) BETWEEN THE ROOF AND THE CABLE WHEREVER THEIR IS A SPLICE IN THE CABLE THAT IS IN CONTACT WITH THE ROOF - PROVIDE A SEPARATOR (WALKPAD) WHEREVER THE CABLE COMES IN CONTACT WITH ALUMINUM - RODS & CABLES ARE NOT SHOWN FOR CLARITY.
- EXTG. THRU-THE-WALL SCUPPERS TO REMAIN PROVIDE NEW 12" W 8"D RAIN WATER CONDUCTOR HEAD & DOWNSPOUTS - PROVIDE HEAT TRACE SYSTEM - SEE ELECTRICAL DRAWINGS - SEE DETAIL C2/AE-503.
- RAISED STEEL BEAM GRID TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. STEEL PORTABLE STAIR TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. MECHANICAL UNITS ON TOP OF EXTG. STEEL BEAM GRID TO REMAIN SHOWN WITH DASHED LINES - ALL UNITS & PIPING ARE NOT SHOWN FOR CLARITY - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- TEMPORARILY REMOVED EXTG. WALL CAP METAL IN THIS AREA TO INSTALL NEW ROOFING - REINSTALL EXTG. WALL CAP METAL AS REQUIRED.
- STEEL COLUMN BENEATH STEEL BEAM GRID - FLASH COLUMN PER DETAIL C2/AE-501.
- EXTG. STEEL SUPPORT LEGS TO REMAIN - FLASH PER DETAIL D1/AE-503 - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. CONCRETE SHAFT TO REMAIN FLASH PER DETAIL A3/AE-501.
- EXTG. FIRE DEPARTMENT CONNECTION VALUES TO REMAIN - FLASH PER DETAIL B4/AE-502 SIM.
- EXTG. FIRE DEPARTMENT CONNECTION VALUES TO REMAIN - FLASH PER DETAIL B4/AE-502 SIM.
- PROVIDE NEW RAIN GUTTER AND DOWNSPOUT - PROVIDE HEAT TRACE SYSTEM - SEE ELECTRICAL DRAWINGS - REFER TO THE DETAIL INDICATED.
- ALTERNATE #2
APPLY A CONCRETE/CMU SEALER ON THE INTERIOR SIDE OF THE ALL PARAPET WALLS/CONCRETE COLUMNS & ELEVATOR PENTHOUSES - SEE SPEC.
- PROVIDE A CONCRETE SPLASH BLOCK ON WALKPAD MATERIAL BELOW DOWNSPOUT AS SHOWN.
- EXTG. WALL CAP METAL TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.



SEE AE-201 FOR A REFERENCE ELEVATION FOR ROOFS # 4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24 & 25



A1 ROOF PLAN AREA "B"
1/8" = 1'-0"

A4 KEY PLAN
1" = 40'-0"

KEYED NOTES

1 PROVIDE NEW 30"x30" WALK PADS AS SHOWN - COORDINATE FINAL LOCATION WITH THE OWNER & ARCHITECT BEFORE INSTALLING - LEAVE A 2' GAP BETWEEN WALK PADS FOR WATER FLOW - SEE SPEC.



**SCOTT P. EVANS
ARCHITECT &
ASSOCIATES P.C.**

108 West Center Street
Bountiful, Utah 84010
Telephone - 801.298.1368
Telefax - 801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

**2008 UNIVERSITY OF UTAH
ECCLES INSTITUTE OF HUMAN
GENETICS REROOF**



15 NORTH 2030 EAST
SALT LAKE CITY, UT 84112



REVISIONS:

NO.	DATE	DESCRIPTION
01	01/18/08	CONSTRUCTION DOCUMENTS

ISSUED:

NO.	DATE	DESCRIPTION
01	01/18/08	CONSTRUCTION DOCUMENTS

DFCM PROJECT #: 07127750
SPE PROJECT #: 07-09

DRAWN BY: JBE
CHECKED BY: SPE
DESIGNED BY: SPE

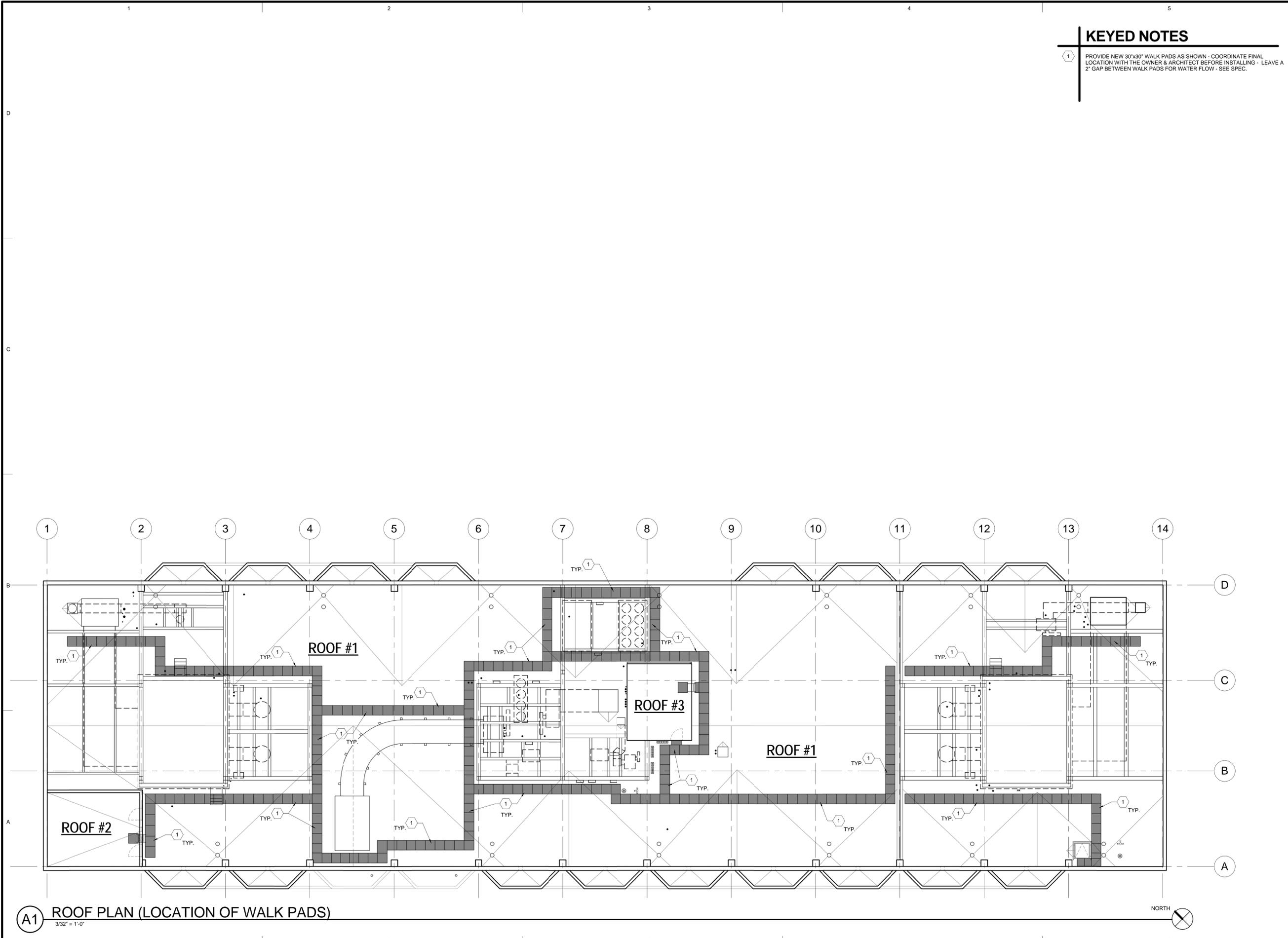
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SHEET TITLE:

**ROOF PLAN
(LOCATION OF
WALK PADS)**

SHEET NUMBER:

AE-103

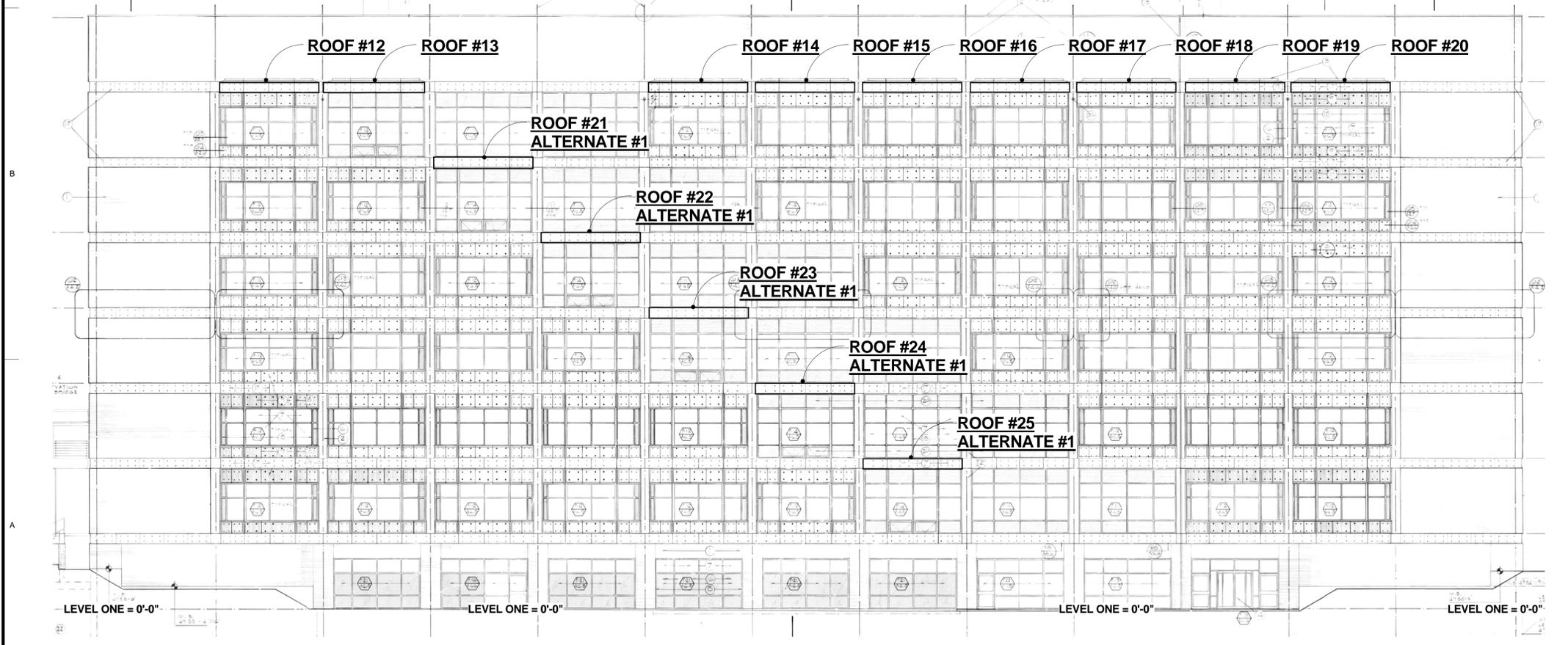


A1 ROOF PLAN (LOCATION OF WALK PADS)
3/32" = 1'-0"

Last Plotted: 1/22/2008 9:19:18 AM



C1 EAST REFERENCE ELEVATION
SCALE: NONE



A1 WEST REFERENCE ELEVATION
SCALE: NONE

ARCHITECTS INFORMATION

**SCOTT P. EVANS
ARCHITECT &
ASSOCIATES P.C.**

108 West Center Street
Bountiful, Utah 84010
Telephone - 801.298.1368
Telefax - 801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

PROJECT NAME:

**2008 UNIVERSITY OF UTAH
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15 NORTH 2030 EAST
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DFCM PROJECT #: 07127750
SPE PROJECT #: 07-09
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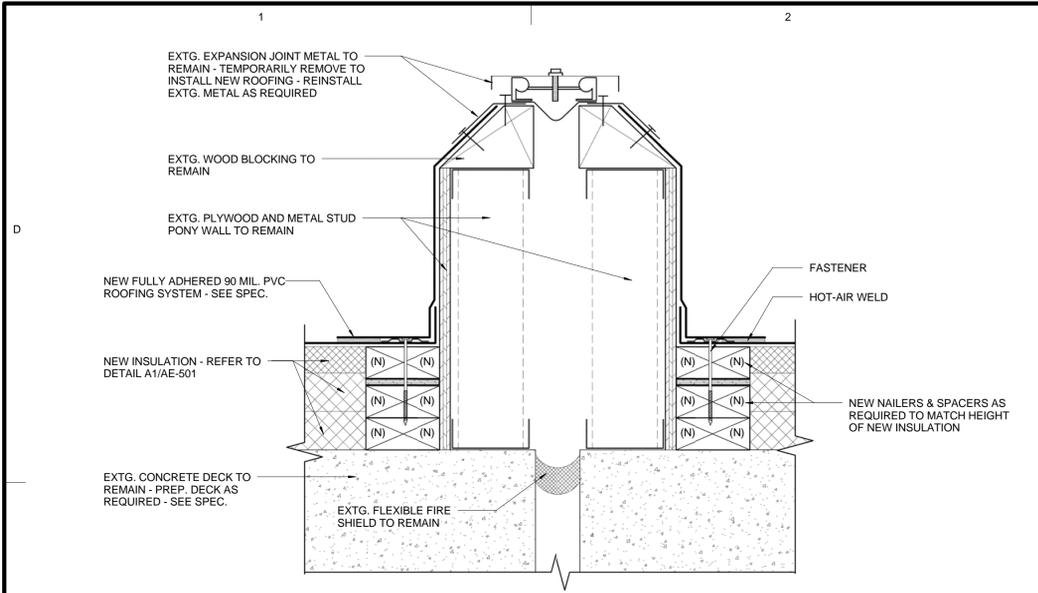
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SHEET NUMBER:
AE-201

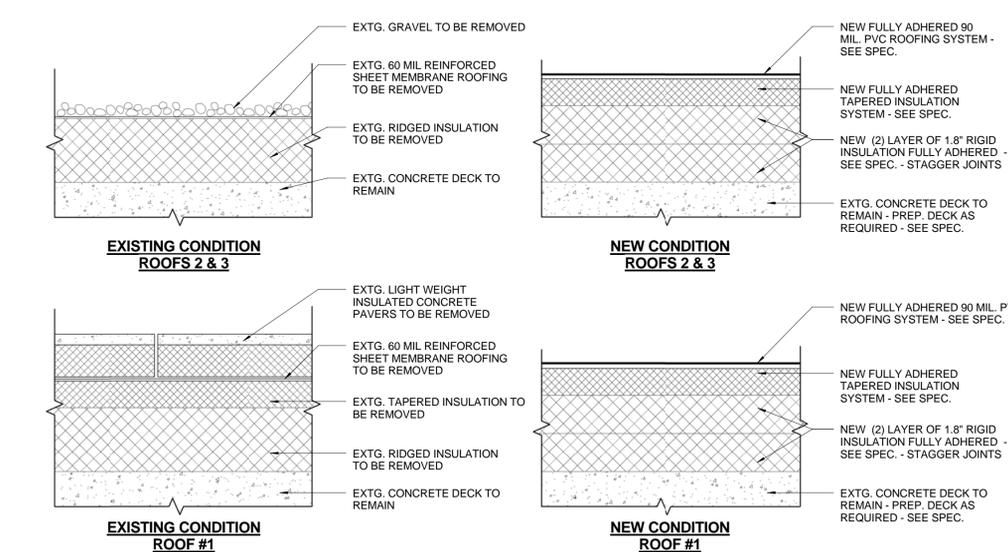
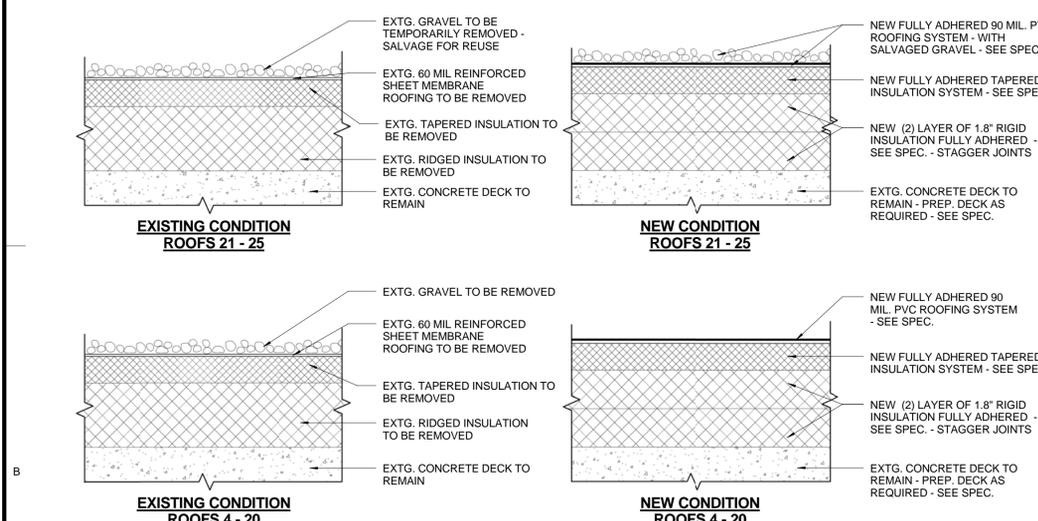
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REVISIONS	
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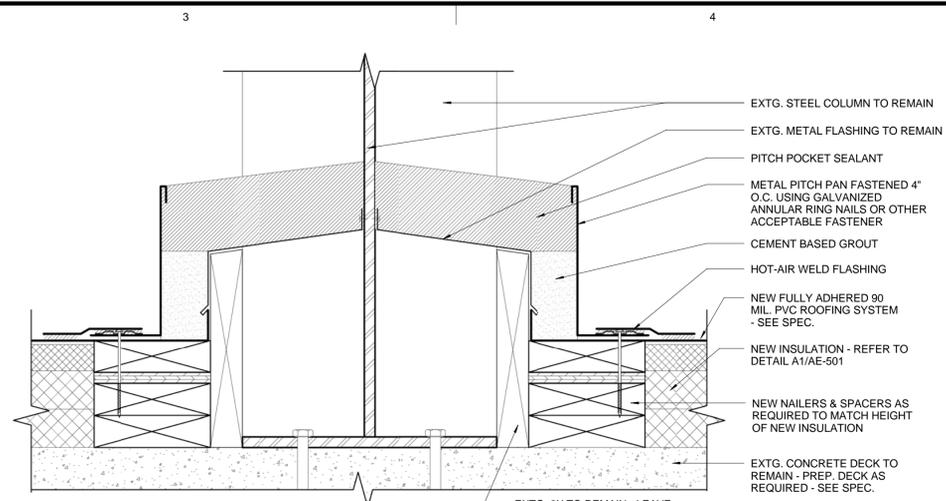
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SPE PROJECT #:	07-09
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	SPE



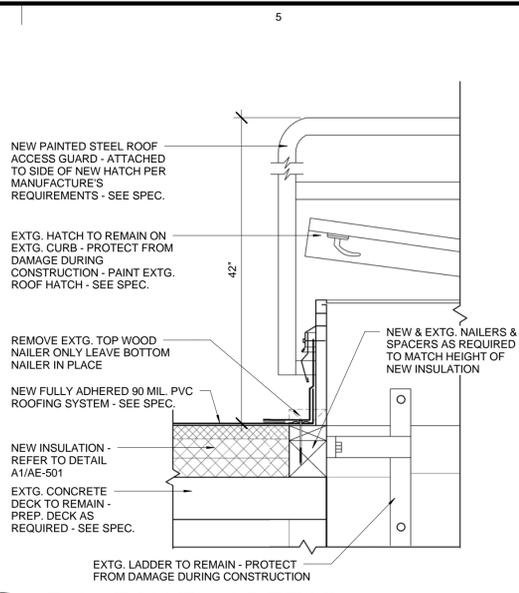
C1 EXPANSION JOINT DETAIL
 3" = 1'-0"



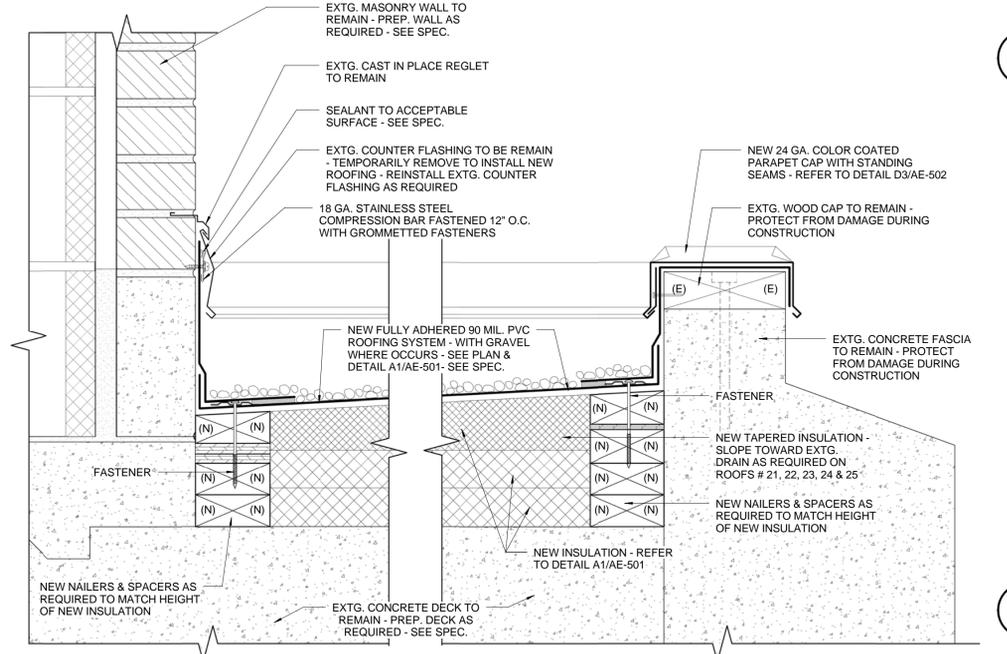
A1 NEW VS. EXTG. CONDITION DETAILS
 3" = 1'-0"



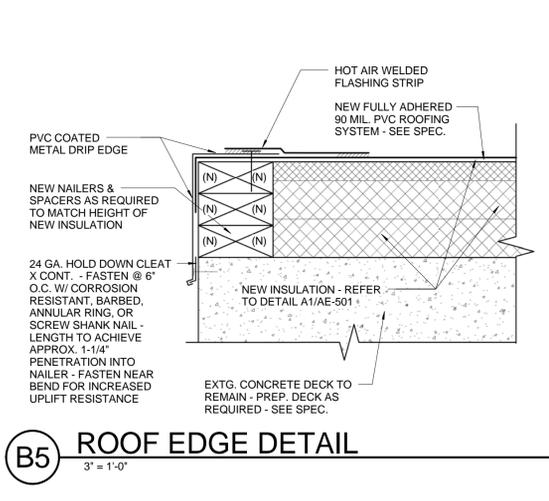
C2 STEEL COLUMN DETAIL
 3" = 1'-0"



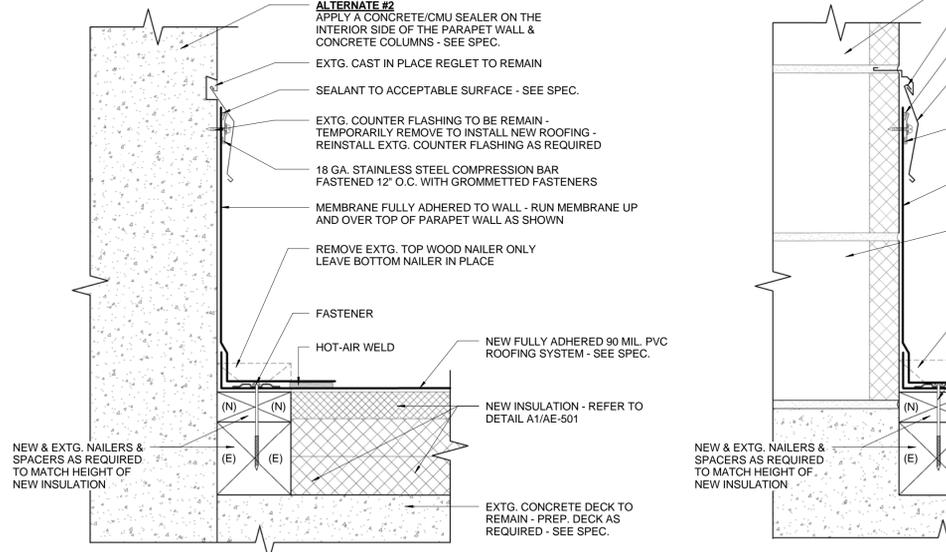
C5 ROOF HATCH DETAIL
 1 1/2" = 1'-0"



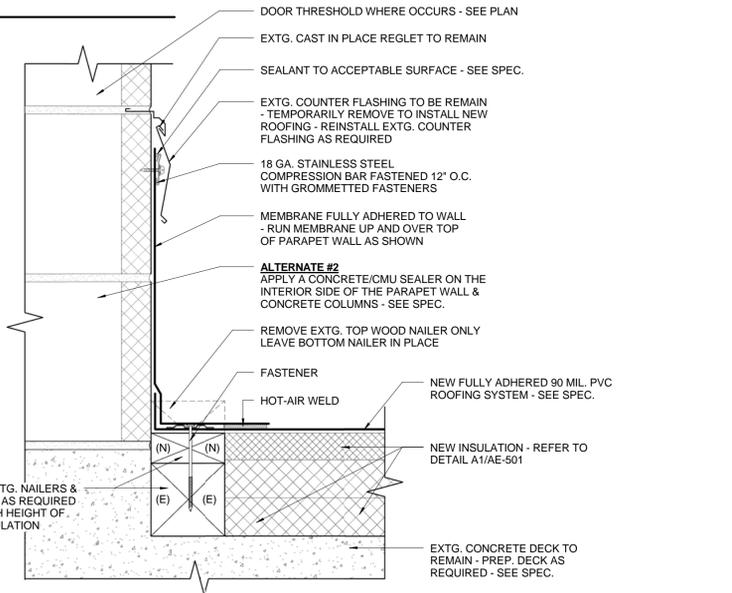
B3 ROOF EDGE & ROOF TO WALL DETAIL
 3" = 1'-0"



B5 ROOF EDGE DETAIL
 3" = 1'-0"



A3 ROOF TO WALL DETAIL
 3" = 1'-0"



A4 ROOF TO WALL DETAIL
 3" = 1'-0"

REVISIONS	
NO.	DESCRIPTION

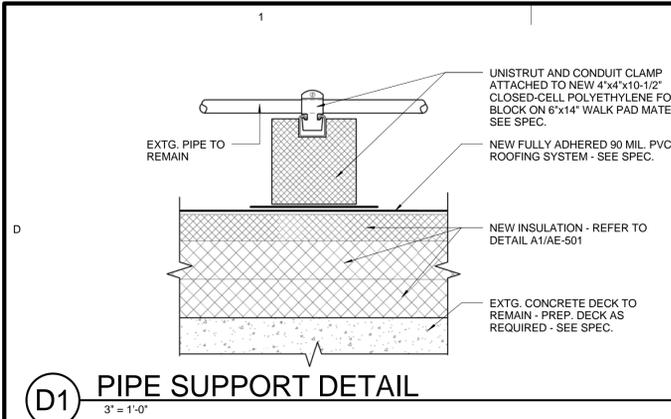
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01	01/18/08	CONSTRUCTION DOCUMENTS

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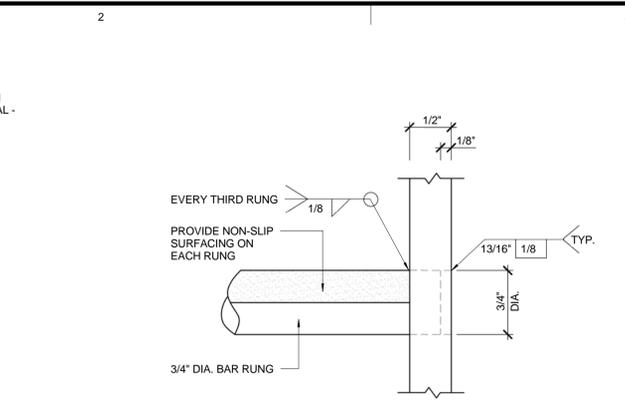
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SHEET TITLE: **DETAILS**

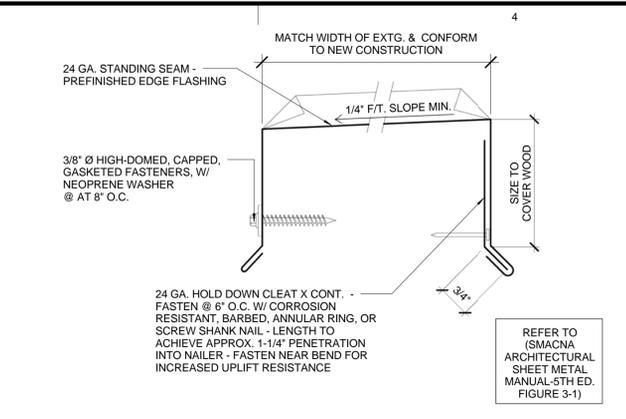
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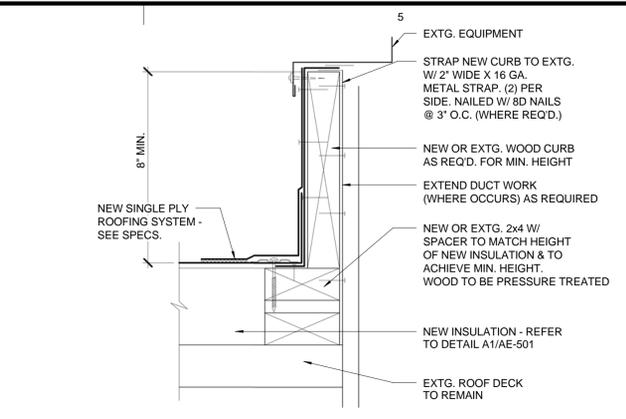
D1 PIPE SUPPORT DETAIL
 3' = 1'-0"



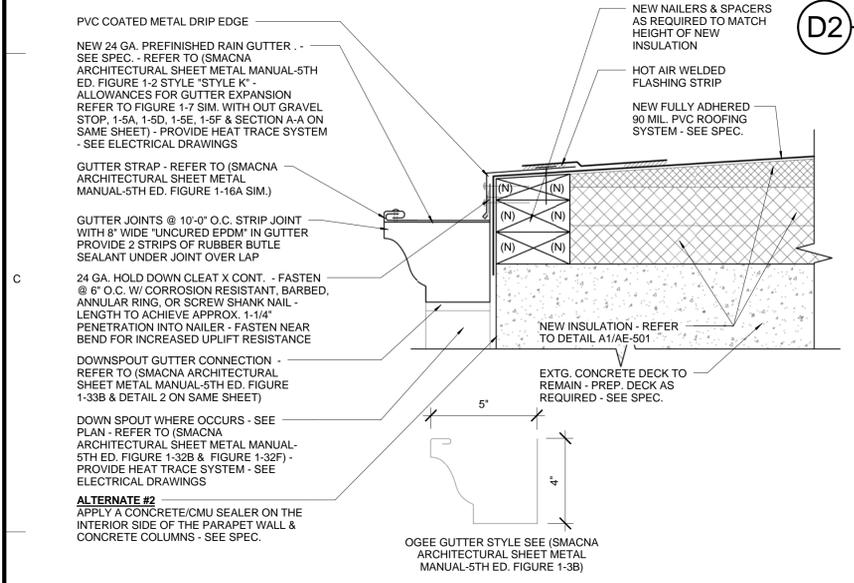
D2 LADDER RUNG DETAIL
 3' = 1'-0"



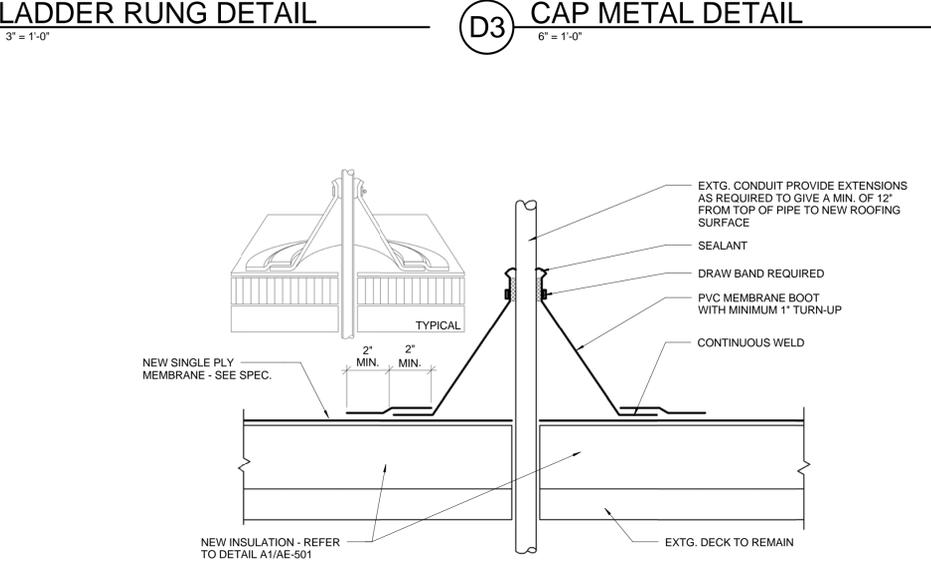
D3 CAP METAL DETAIL
 6' = 1'-0"



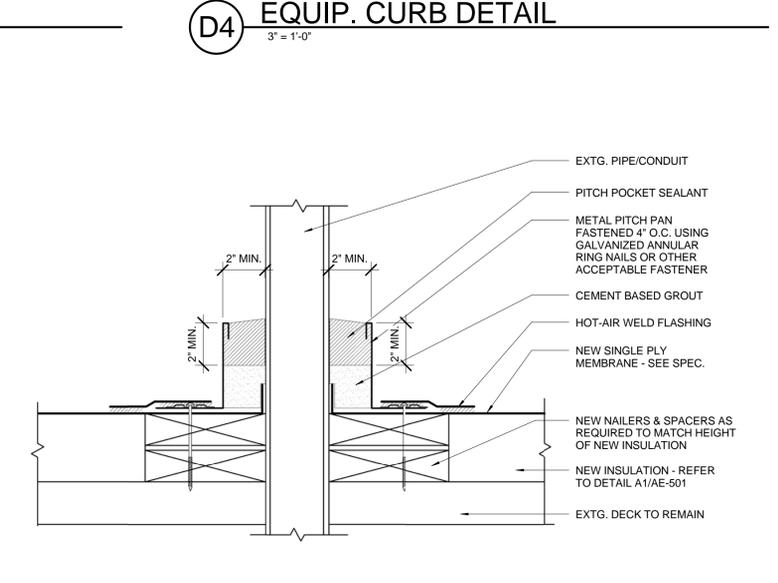
D4 EQUIP. CURB DETAIL
 3' = 1'-0"



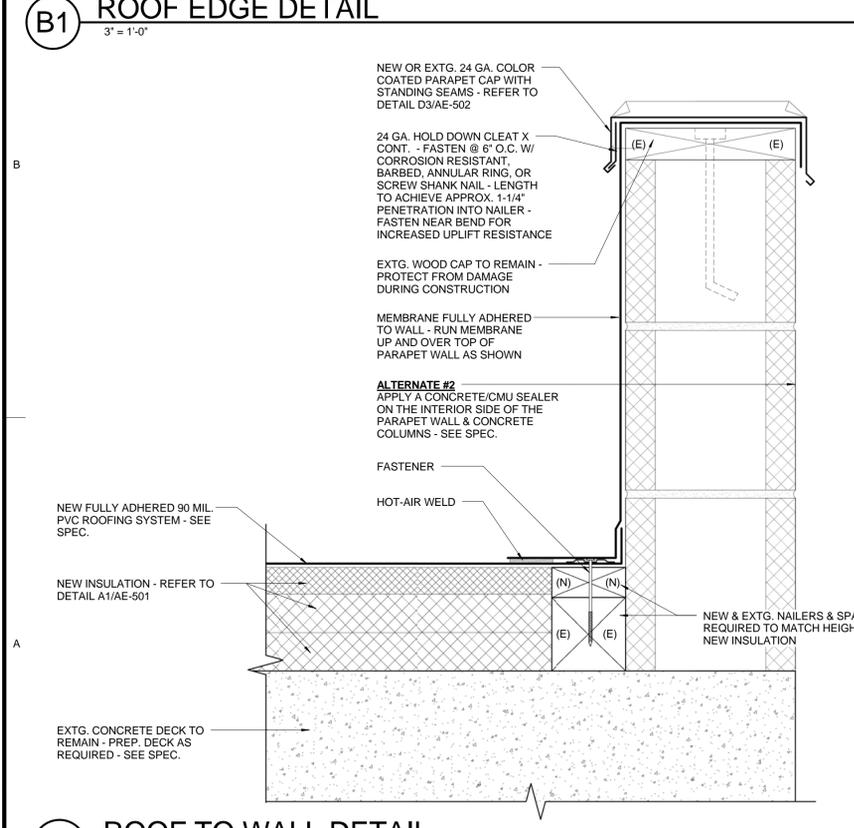
B1 ROOF EDGE DETAIL
 3' = 1'-0"



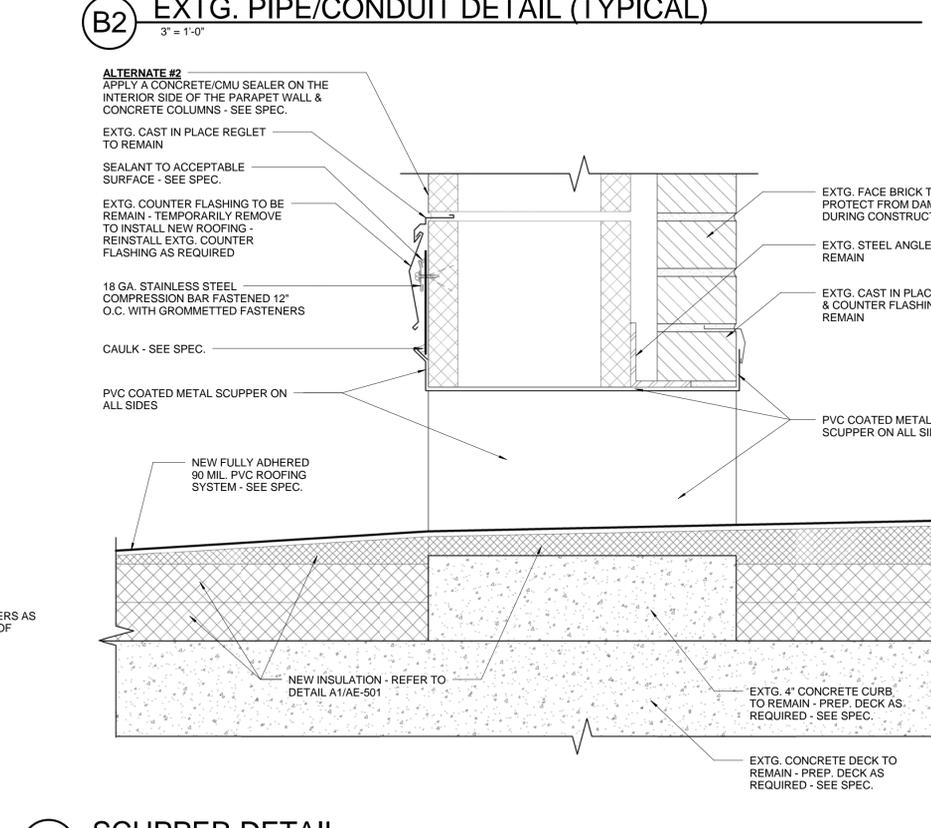
B2 EXTG. PIPE/CONDUIT DETAIL (TYPICAL)
 3' = 1'-0"



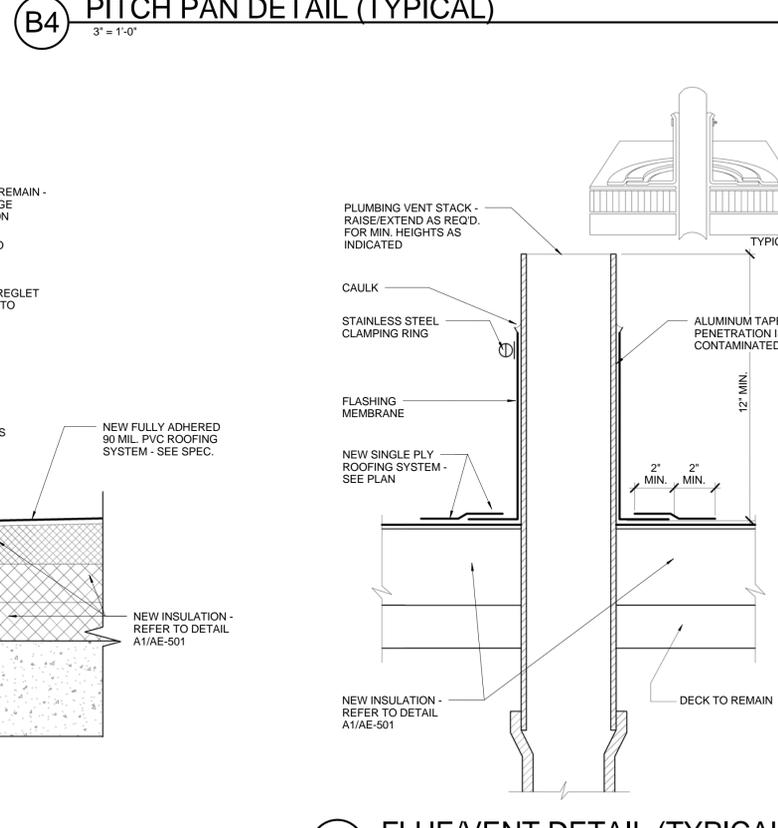
B4 PITCH PAN DETAIL (TYPICAL)
 3' = 1'-0"



A1 ROOF TO WALL DETAIL
 3' = 1'-0"



A2 SCUPPER DETAIL
 3' = 1'-0"



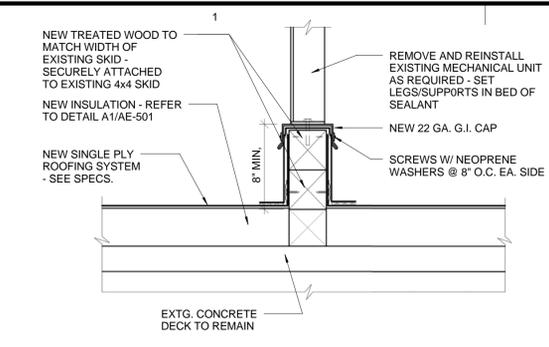
A5 FLUE/VENT DETAIL (TYPICAL)
 3' = 1'-0"

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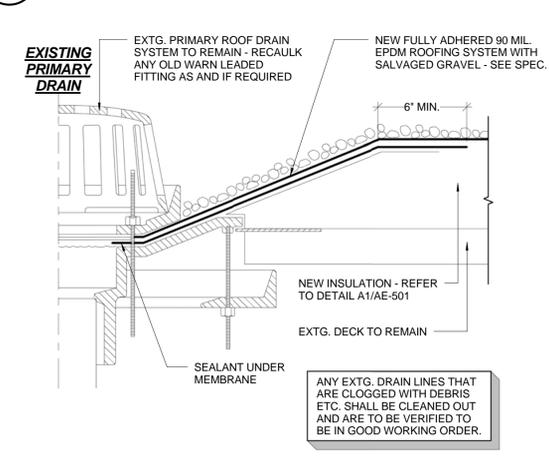
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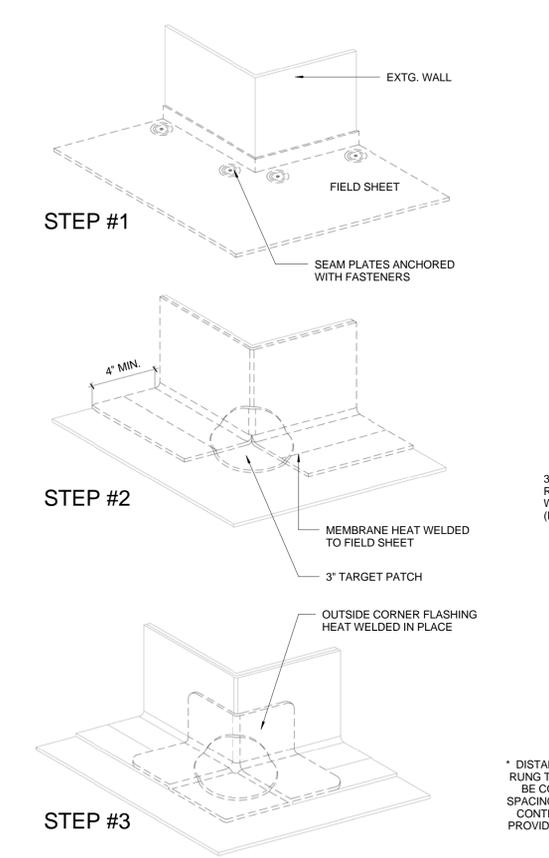
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SPE PROJECT #:	07-09
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	SPE
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SHEET TITLE:	DETAILS
SHEET NUMBER:	AE-503



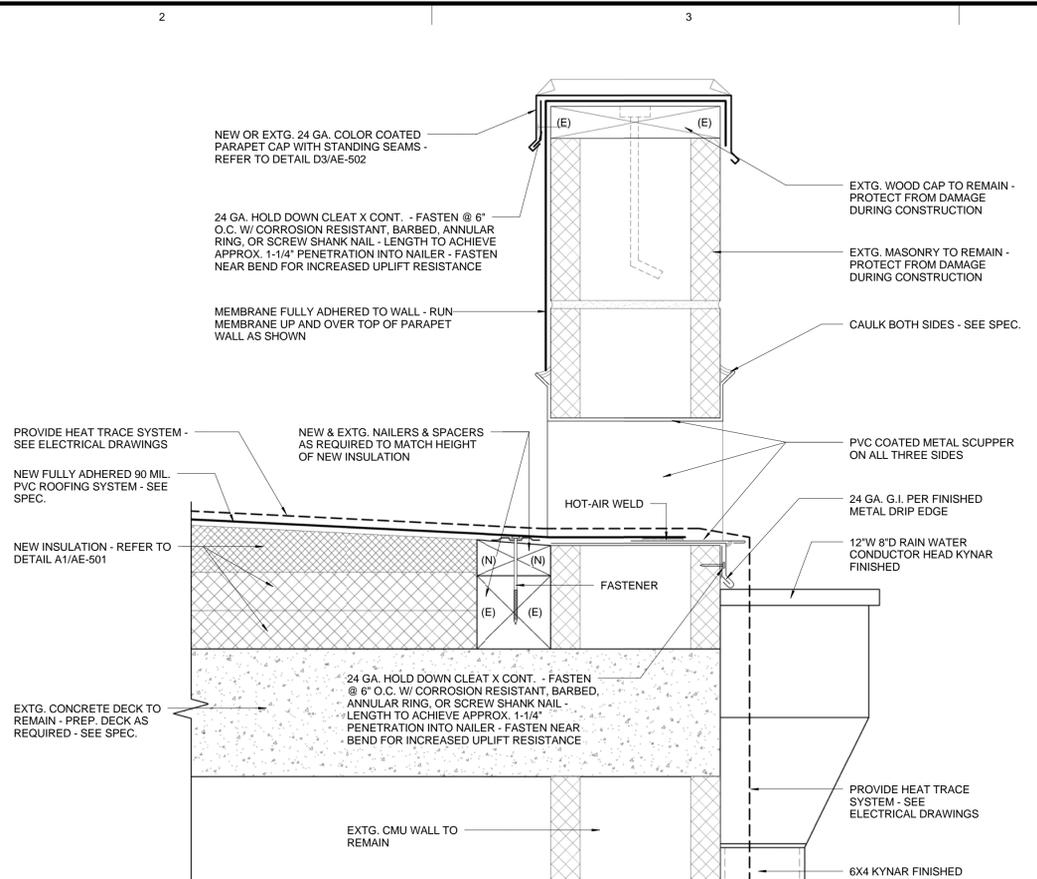
D1 LEG SUPPORT DETAIL
 1 1/2" = 1'-0"



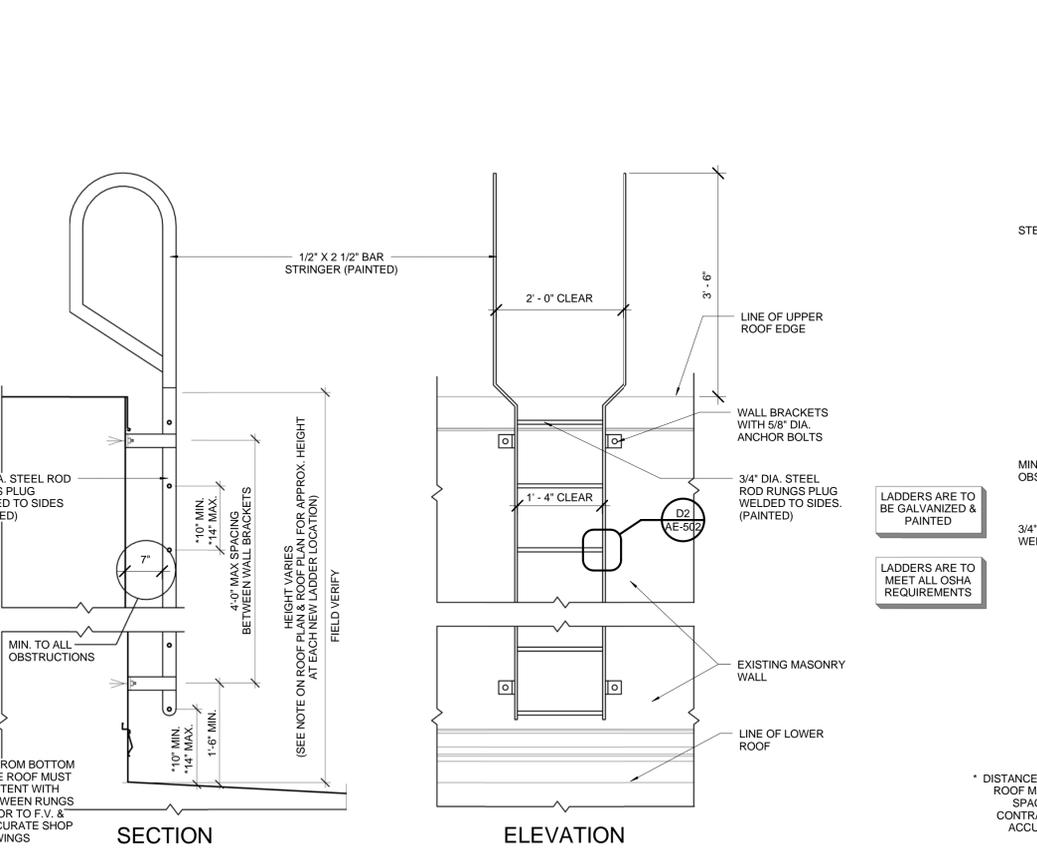
C1 ROOF DRAIN DETAIL
 3" = 1'-0"



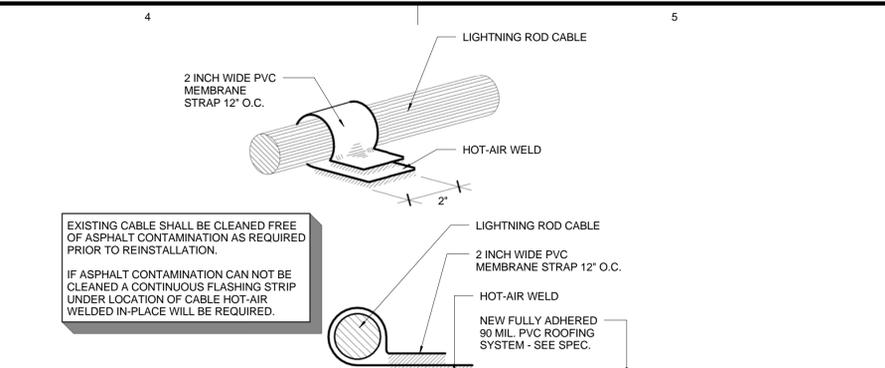
A1 TYP. MEMBRANE CORNER
 SCALE: NONE



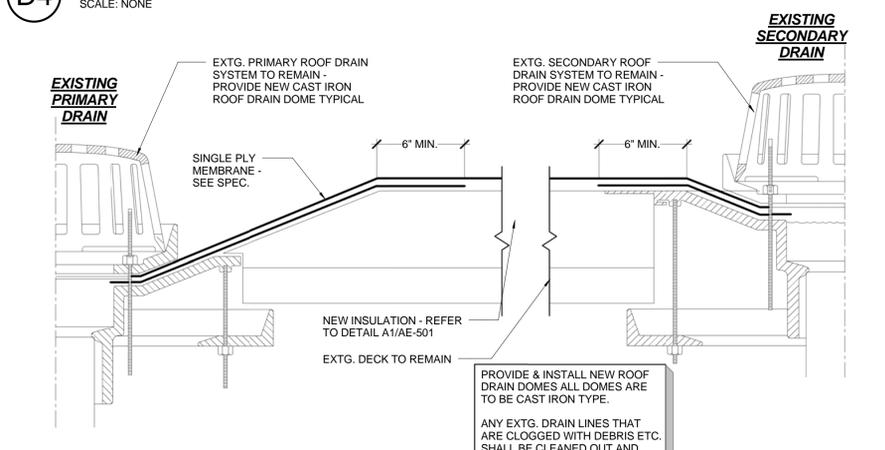
C2 SCUPPER DETAIL
 3" = 1'-0"



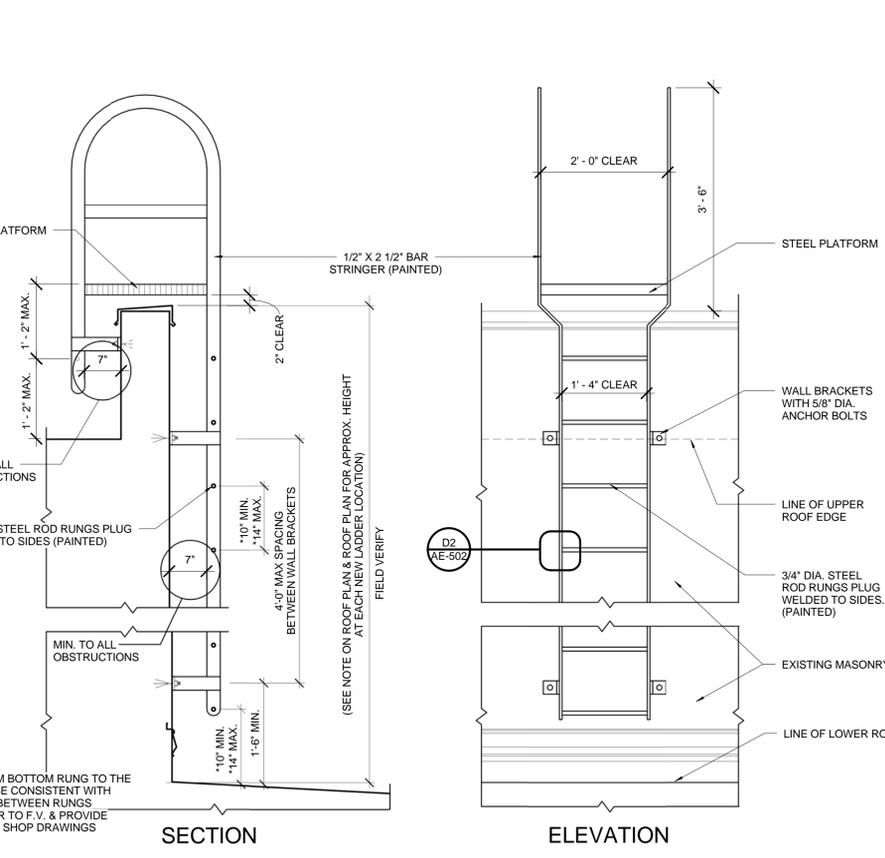
A2 ROOF TO ROOF LADDER DETAIL
 3/4" = 1'-0"



D4 LIGHTNING CABLE STRAP DETAIL
 SCALE: NONE



C4 ROOF DRAIN DETAIL
 3" = 1'-0"



A3 ROOF TO ROOF LADDER DETAIL
 3/4" = 1'-0"

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CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) **5**_{IG}

SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1)			IG	SE	NOTES
			QTY	SIZE	G			
1	20	.75	2	12	12	12	8	2
2	20	.75	3	12	12	12	8	2,3
3	20	.75	4	12	12	12	8	2,3
4	30	.75	2	10	10	10	8	2
5	30	.75	3	10	10	10	8	2
6	30	.75	4	10	10	10	8	2
7	40	1	2	8	10	8	6	2
8	40	1	3	8	10	8	6	2
9	40	1	4	8	10	8	6	2
10	55	1	2	6	10	8	4	2
11	55	1	3	6	10	8	4	2
12	55	1.25	4	6	10	8	4	2
13	70	1	2	4	8	4	2	2
14	70	1.25	3	4	8	4	2	2
15	70	1.25	4	4	8	4	2	2
16	85	1.25	2	3	8	3	2	2
17	85	1.25	3	3	8	3	2	2
18	85	1.25	4	3	8	3	2	2
19	95	1.25	3	2	8	2	2	2
20	95	1.50	4	2	8	2	2	2
21	130	1.50	3	1	6	2	2	2
22	130	1.50	4	1	6	2	2	2
23	150	2	3	1/0	6	2	1/0	2
24	150	2	4	1/0	6	2	1/0	2
25	175	2	3	2/0	6	2	2/0	2
26	175	2	4	2/0	6	2	2/0	2
27	200	2	3	3/0	6	2	2/0	2
28	200	2.50	4	3/0	6	2	2/0	2
29	230	2.50	3	4/0	4	2	2/0	2
30	230	2.50	4	4/0	4	2	2/0	2
31	255	2.50	3	250	4	1	2/0	2
32	255	2.50	4	250	4	1	2/0	2
33	310	3	3	350	3	1/0	3/0	2
34	310	3	4	350	3	1/0	3/0	2
35	380	3.50	3	500	3	3/0	3/0	2
36	380	4	4	500	3	3/0	3/0	2
37	400	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	2 EA 3	4	250	1	4/0	3/0	2
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0	4
54	2010	6 EA 3.50	4	400	250	250	250	4
55	2660	7 EA 4	4	500	350	350	350	4
56	3040	8 EA 4	4	500	500	500	500	4
57	4180	11 EA 4	4	500	500	500	500	4
58		5 EA 4						6
59		5						6
60		10 EA 4						6

CONDUCTOR AND CONDUIT SCHEDULE NOTES

- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
- RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
WIRING METHODS	
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.
	DOWNSPOUT LOCATION.
ELECTRICAL POWER AND DISTRIBUTION	
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	kW	KILOWATT
2WAY	TWO-WAY	kWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3PH	THREE-PHASE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4OUT	QUADRUPE RECEPTACLE OUTLET	LPS	LOW PRESSURE SODIUM
4PDT	FOUR-POLE DOUBLE THROW	LRA	LOCKED ROTOR AMPS
4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR-WIRE	LV	LOW VOLTAGE
4WAY	FOUR-WAY	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MCCP	MOTOR CONTROL PROTECTION
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPERE INTERRUPTING CAPACITY	MG	MOTOR GENERATOR
ALUM	ALUMINUM	MH	MANHOLE
AMP	AMPERE	MIN	MINIMUM
ANN	ANNUNCIATOR	MLO	MAIN LUGS ONLY
AP	ACCESS POINT (WIRELESS DATA)	MCCP	MAXIMUM OVERCURRENT PROTECTION
AR	AS REQUIRED	NA	NOT APPLICABLE
ASC	AMPS SHORT CIRCUIT	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AV	AUDIO VISUAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AWG	AMERICAN WIRE GAGE	NFC	NATIONAL FIRE CODE
BB XFMR	BUCK-BOOST TRANSFORMER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C	CEILING MOUNTED	NIC	NOT IN CONTRACT
CATV	COMMUNITY ANTENNA TELEVISION	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	OC	ON CENTER
CCTV	CLOSED CIRCUIT TELEVISION	OCP	OVER CURRENT PROTECTION
CF/CI	CUSTOM FINISH AS SELECTED BY ARCHITECT	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	OF/OI	OWNER FURNISHED/OWNER INSTALLED
CKT	CIRCUIT	OFF	OBTAIN FROM PLANS
CM	CONSTRUCTION MANAGER	OH DR	OVERHEAD (COILING) DOOR
CND	CONDUIT	OL	OVERLOAD
CO	CONVENIENCE OUTLET	PB	PUSHBUTTON
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PF	POWER FACTOR
CP	CONTROL PANEL	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CTV	CABLE TELEVISION	PT	POTENTIAL TRANSFORMER
CU	COPPER	PTZ	PAN/TILT/ZOOM
CSA	UNIT OF SOUND LEVEL	QTY	QUANTITY
DPDT	DOUBLE POLE DOUBLE THROW	R	REMOVE
DS	DISCONNECT SWITCH	RCP	REFLECTED CEILING PLAN
EA	EACH	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RNC	RIGID NONMETALLIC CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
ENT	ELECTRICAL NONMETALLIC TUBING	RR	REMOVE AND RELOCATE
EPO	EMERGENCY POWER OFF EQUIPMENT	SCA	SHORT CIRCUIT AMPS
EQIP	EXISTING	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
EX	FURNITURE MOUNTED	SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE, DOUBLE THROW
FLA	FULL LOAD AMPS	SPEC	SPECIFICATION
FMC	FLEXIBLE METAL CONDUIT	SPST	SINGLE POLE, SINGLE THROW
FOB	FREIGHT ON BOARD	S/S	START/STOP
FWNR	FULL VOLTAGE NON-REVERSING	ST	SINGLE THROW
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
G	GROUND	SWGR	SWITCHGEAR
GEN	GENERATOR	TL	TWIST LOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TELEPHONE POLE
GFP	GROUND FAULT PROTECTION	TP	TWISTED PAIR
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TV	TELEVISION
HOA	HAND-OFF-AUTOMATIC HORSE POWER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HIGH POWER FACTOR	TYP	TYPICAL
HPF	HIGH PRESSURE SODIUM	UF	UNDERFLOOR
HV	HIGH VOLTAGE	UGND	UNDERGROUND
HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLTS
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT AMPERE
IN/IS	INSULATED/ISOLATED	VFC/VFD	VARIABLE FREQUENCY CONVERTER
I/O	INPUT/OUTPUT	W/	WITH
IR	INFRARED	W/O	WITHOUT
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
		XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
 - THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
 - THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
 - THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ELECTRICAL SHEET INDEX

SHEET NO	SHEET TITLE
EE-001	SYMBOL LEGEND & SHEET INDEX
EE-101	ROOF HEAT TRACE PLAN



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.

108 West Center Street
Bountiful, Utah 84010
Telephone - 801.298.1368
Telefax - 801.298.2192
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

PROJECT NAME:

**2008 UNIVERSITY OF UTAH
ECCLES INSTITUTE OF HUMAN
GENETICS REROOF**

15 NORTH 2030 EAST
SALT LAKE CITY, UT 84112

REVISIONS:

NO.	DATE	DESCRIPTION
01	01/18/08	CONSTRUCTION DOCUMENTS

ISSUED:

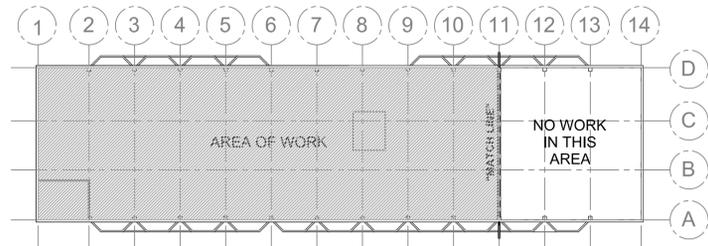
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SPE PROJECT #: 07-09
DRAWN BY: PSS
CHECKED BY: THJ
DESIGNED BY: DLA

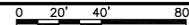
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SYMBOL LEGEND & SHEET INDEX

SHEET NUMBER:
EE-001



D1 KEY PLAN
1" = 40'-0"



GENERAL SHEET NOTES

- COORDINATE DESIRED ROUTING OF CONDUITS ON ROOF WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- ALL HEAT TRACE CABLE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION GUIDE AND INSTALLATION CONNECTORS AND DEVICES SHALL BE COORDINATE WITH THE ROOF TYPE. COORDINATE WITH ROOF INSTALLER.

SHEET KEYNOTES

- PROVIDE NEW 30mA GFI, 20A/1P BREAKER IN EXISTING PANELBOARD. FIELD VERIFY PANELBOARD TYPE AND REQUIREMENTS. MATCH BREAKER TO PANELBOARD.
- CONNECT TO NEW 30mA GFI, 20A/1P BREAKER IN PANEL "LRA".
- CONNECT TO NEW 30mA GFI, 20A/1P BREAKER IN PANEL "ELRB".
- NEW ICE MELT HEATING CABLE, 120-VOLT, SELF REGULATING 30' F. STARTUP TEMPERATURE.
- INSTALL HEATING CABLE PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. EXTEND HEATING CABLES DOWN DOWNSPOUTS PER MANUFACTURER INSTRUCTIONS.
- DOWNSPOUT LOCATION APPROXIMATELY 10- FEET DOWN. FIELD VERIFY LENGTH.
- DOWNSPOUT LOCATION APPROXIMATELY 12- FEET IN LENGTH. FIELD VERIFY.
- PROVIDE STAR PATTERN HEAT TRACE AROUND DOWNSPOUT OUTLET AND EXTEND DOWN DOWNSPOUT PER MANUFACTURER'S PUBLISHED INSTALLATION DATA.
- PANEL IS LOCATED IN THE PENTHOUSE MECHANICAL ROOM. FIELD VERIFY EXACT LOCATION.
- EXISTING PANELBOARD IS A WESTINGHOUSE TYPE PRL1, 208Y/120, 3Ø, 4W. COORDINATE AND FIELD VERIFY REQUIREMENTS FOR NEW BREAKERS WITH EXISTING PANELBOARDS.

ARCHITECT'S INFORMATION:

SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.
108 West Center Street
Bountiful, Utah 84010
Telephone - 801.298.1368
Telefax - 801.298.2192
info@spe-architect.com
www.spe-architect.com

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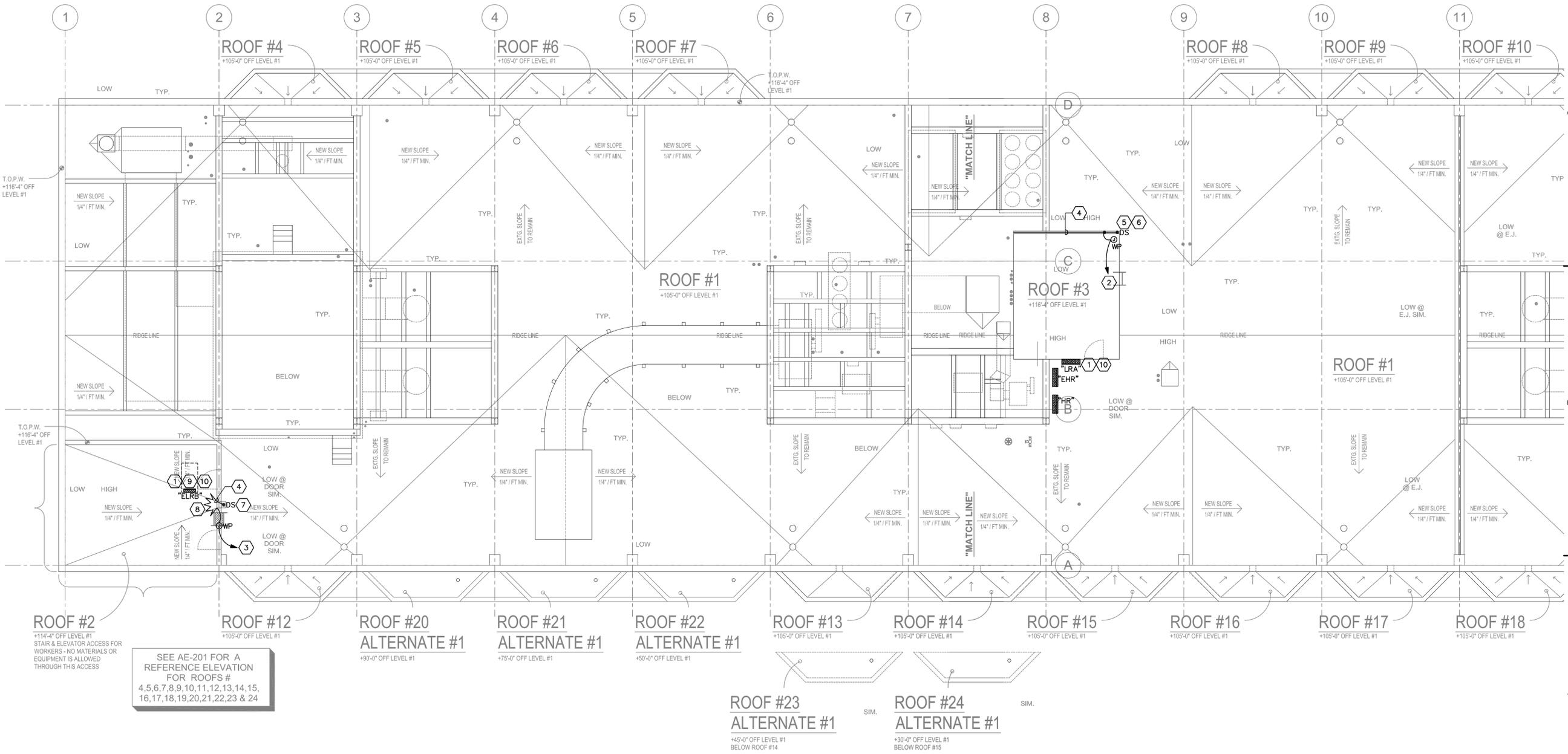
CONSULTANTS:

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

PROJECT NAME:

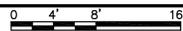
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SALT LAKE CITY, UT 84112



SEE AE-201 FOR A REFERENCE ELEVATION FOR ROOFS # 4,5,6,7,8,9,10,11,12,13,14,15, 16,17,18,19,20,21,22,23 & 24

A1 ROOF HEAT TRACE PLAN
1/8" = 1'-0"



REVISIONS:

NO.	DATE	DESCRIPTION
01	01/18/08	CONSTRUCTION DOCUMENTS

ISSUED:	
NO. DATE DESCRIPTION	
01 01/18/08 CONSTRUCTION DOCUMENTS	

DCFM PROJECT #:	07127750
SPE PROJECT #:	07-09
DRAWN BY:	PSS
CHECKED BY:	THJ
DESIGNED BY:	DLA
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SHEET TITLE:	ROOF HEAT TRACE PLAN
SHEET NUMBER:	EE-101

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