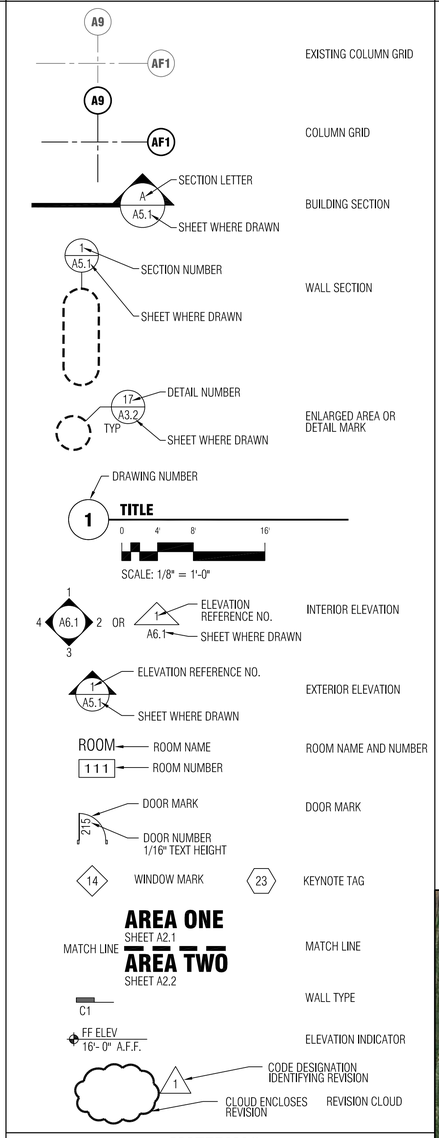
ORACLE SCHOOL DISTRICT
MOUNTAIN VISTA SCHOOL
RE-ROOFING
GYMNASIUM, CAFETERIA & ADMIN BUILDINGS

2618 W. El Paseo Oracle, AZ 85623

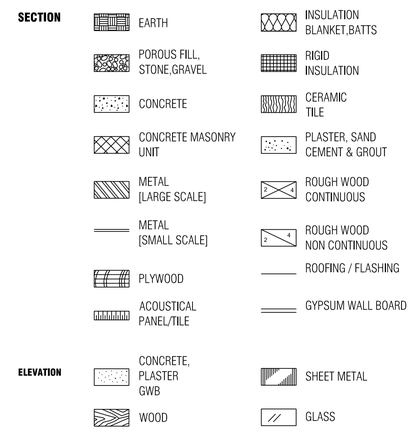
ABBREVIATIONS

@	AT
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
AC	ACOUSTICAL CEILING
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR, ANCHORAGE
ANOD	ANODIZED
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BENCH MARK
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BUR	BUILT UP ROOFING
CMWP	COMPOSITE METAL WALL PANEL
C	CHANNEL
C/C	CENTER TO CENTER
CAB	CABINET
CB	CHALK BOARD,CATCH BASIN
CEM	CEMENT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNWER INSTALLED
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR(ANCE)
CMP	CORRUGATED METAL PIPE
CMTS	COMMENTS
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CORR	CORRDOR,CORRUGATED
CPT	CARPET
CSK	COUNTERSINK
CT	CERAMIC TILE
CU	CUBIC
CU FT	CUBIC FOOT (FEET)
CW	COLD WATER
D	DEPTH
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DITTO
DP	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWC	DRYWALL CHANNELS (HAT)
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEC	ELECTRICAL(L)
ELEV	ELEVATION, ELEVATOR
EMER	EMERGENCY
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVAT(E)(ION)
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EIFS	EXT. INSULATION FINISH SYSTEM
EFS	EXTERIOR FINISH SYSTEM
F	FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER(CABINET)
FF	FINISH FLOOR
FIN	FINISH(ED)
FLA	FLASHING
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF
FR	FIRE RETARDANT
FRP	FIBER REINFORCED PLASTIC
FT	FOOT,FEET
FTG	FOOTING
FUR	FURRED(ING)
FUT	FUTURE
FV	FIELD VERIFY
GA	GAGE,(GUAGE)
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GD	GRADE
GL	GLASS, GLAZING
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
HIW	HIGH IMPACT WOOD FIBER PANEL
HI(T)	HEIGHT
HB	HOSE BIBB
HC	HOLLOW CORE
HDBD	HARDBOARD
HD	HEAVY DUTY
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HW	HOT WATER
ICMWP	INSULATED COMPOSITE METAL WALL PANEL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(ES)
INCL	INCLUDING
INSUL	INSULATION
INT	INTERIOR
JC	JANITORS CLOSET
JST	JOIST
JT	JOINT
KD	KNOCKED DOWN
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE
L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAL FEET
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT	LIGHT
LTWT	LIGHTWEIGHT
LVR	LOUVER
MAS	MASONRY
MAX	MAXIMUM
MATL	MATERIAL
MED	MEDIUM
MECH	MECHANICAL
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANOUS
MO	MASONRY OPENING
MOD	MODULAR
MOV	MOVABLE
MTD	MOUNTED
MWP	METAL WALL PANEL (SYSTEM)
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT, (OFOI)
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENTS
NTS	NOT TO SCALE
NO	NUMBER
OA	OVERALL
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD, OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
P	PAINT(ED)
PAR	PARALLEL
PART	PARTITION
PART BD	PARTICLE BOARD
PC	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATE(D)
PERIM	PERIMETER
PERP	PERPENDICULAR
PF	PREFABRICATED
PJ	PANEL JOINT
PL	PLASTER, PLATE, PROPERTY LINE
PLBG	PLUMBING
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAL FOOT
PNL	PANEL
PO	POWER OPERATED
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
(R)	RECESSED
R	RADIUS, RISER ROUND
RA	RETURN AIR
RB	RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
RELO	RELOCATION
REPL	REPLACE
RES	RESILIENT
REV	REVISION(S), REVISED
RF	RIGID FIBERGLASS
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
REQ'D	REQUIRED
RWL	RAINWATER LEADER
S	SEALED, SOUTH
(S)	SURFACE MOUNTED
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SD	STORM DRAIN
SDG	SIDING
SF	SQUARE FEET
SHEET	SHEET
SHWR	SHOWER
SIM	SIMILAR
SM	SHEET METAL
SP	SOUNDPROOF
SPECS	SPECIFICATIONS
SPKR	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STEEL, STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
SV	SEAMLESS VINYL
SW	SWITCH
SWR	SEWER
SYM	SYMMETRY(ICAL)
T	THICKNESS, TEE
TD	TRENCH DRAIN
T&G	TONGUE AND GROOVE
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY
TERR	TERRAZZO
THK	THICKNESS)
TO	TOP OF
TOC	TOP OF CONCRETE
TOIL	TOILET
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VNR	VENEER
VPL	VENEER PLASTER
VWC	VINYL WALL COVERING
W	WIDTH, WIDE, WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WALL HUNG, WATER HEATER
WI	WROUGHT IRON
WM	WIRE MESH
WP	WATERPROOFING
WR	WATER REPELLENT
WS	WEATHERSTRIP
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

SYMBOLS



MATERIALS



PROJECT DATA

1. TO THE BEST OF OUR KNOWLEDGE AND INFORMATION, AND IN ACCORDANCE WITH ACCEPTED PROFESSIONAL STANDARDS, WE HAVE COMPLIED WITH APPLICABLE PORTIONS OF THE AMERICANS WITH DISABILITIES ACT PERTAINING TO BUILDING ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED.

2. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL EQUIPMENT PADS REQUIRED BY EQUIPMENT MANUFACTURER. ACTUAL SIZE AND LOCATION TO BE COORDINATED WITH APPROVED EQUIPMENT MANUFACTURER.

3. HVAC AND ELECTRICAL EQUIPMENT SHOWN ON ARCHITECTURAL DRAWINGS IS FOR GENERAL REFERENCE ONLY. COORDINATE EQUIPMENT AND LOCATION WITH MECHANICAL AND ELECTRICAL DRAWINGS.

4. ALL DETAILS APPLY WHETHER OR NOT SPECIFICALLY REFERENCED.

APPLICABLE CODES:

- 2018 INTERNATIONAL BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FIRE CODE

- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

DRAWING INDEX

G1.1	COVER, INDEX, PROJECT SCOPE DESCRIPTION
ARCHITECTURAL	
D4.1	DEMOLITION ROOF PLAN-GYM. 1005
A4.1	PROPOSED ROOF PLAN-GYM 1005
A4.2	DEMOLITION & PROPOSED ROOF PLAN-CAFE. 1003
A4.3	DEMOLITION & PROPOSED ROOF PLAN-ADMIN. 1001
A4.4	ROOF DETAILS

LOCATION MAP

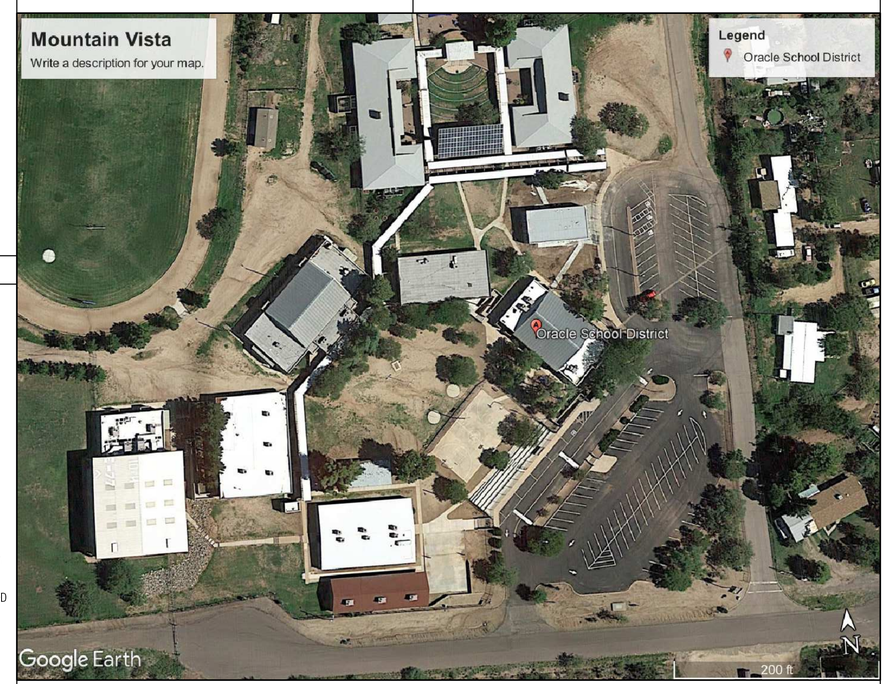
PROJECT DESCRIPTION

WORK INCLUDES:

--TEAR-OFF AND DISPOSAL OF EXISTING ROOFING.

--RE-FINISH AROUND ROOF PENETRATIONS (VERIFY)

--NEW ROOFING AND ASSOCIATED FLASHINGS AND PARAPET CAPS AS SPECIFIED.



1 **SITE PLAN**
1" = 100'-0"
0 32' 64' 128'

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RE-ROOFING
2618 W. El Paseo, Oracle, AZ 85623

REGISTERED ARCHITECT
CERTIFICATE NO. 23533
ROBIN A. SHAMBACH
Date Signed 10.15.20
ARIZONA, U.S.A.

EXPIRES 06/30/2022

DRAWN BY: SN/HA
JOB NO: 2001.100
DATE: 15 OCTOBER '20
REVISIONS

COVER, INDEX ABBREVIATIONS & PROJECT DESCRIPTION

G1.1

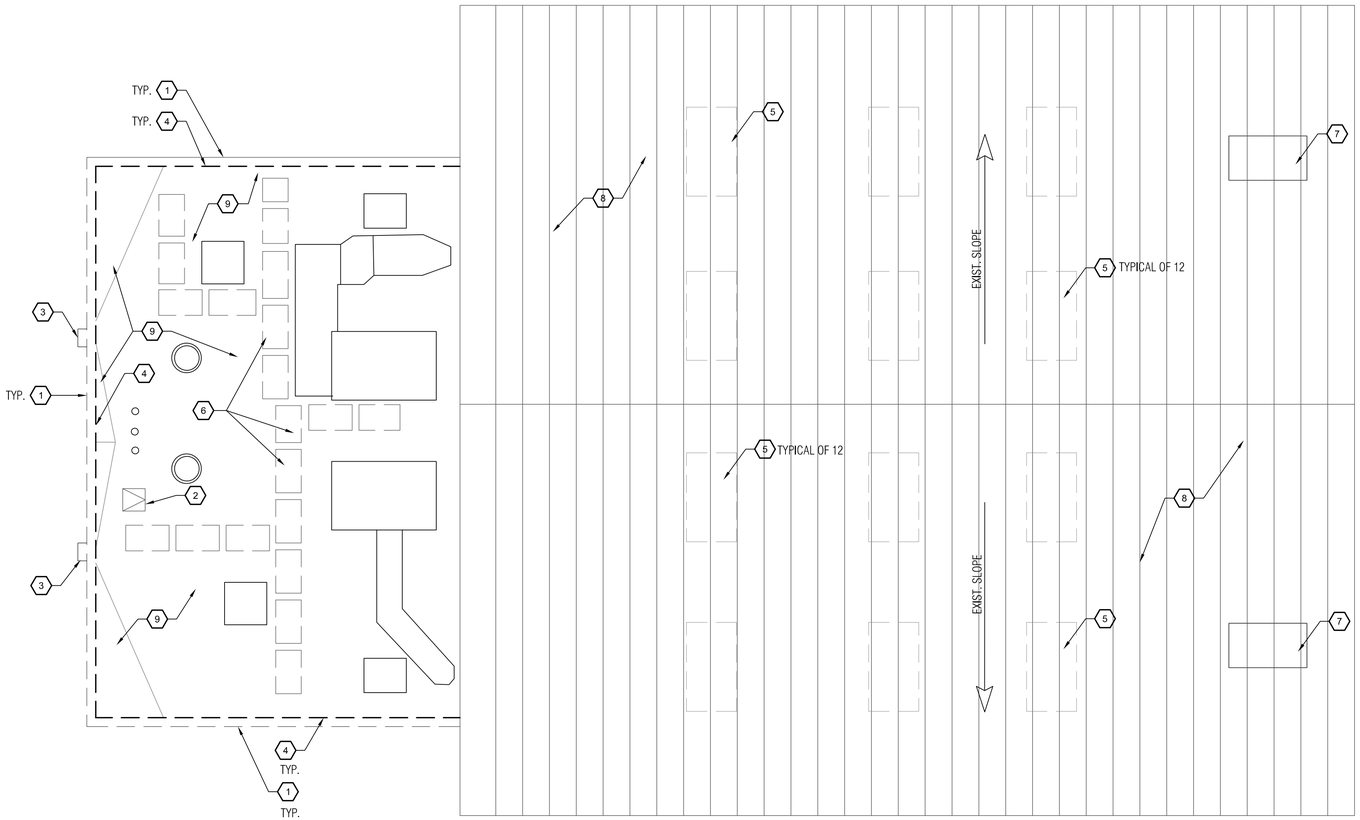
CONSTRUCTION DOCUMENTS

DEMOLITION ROOF PLAN KEY NOTES

1. EXISTING EXPOSED CMU PARAPET WALL
2. EXISTING ROOF HATCH TO REMAIN
3. EXISTING THROUGH-WALL SCUPPER TO REMAIN.
4. REMOVE SEALANT AT TOP OF EXISTING METAL TERMINATION BAR/COUNTERFLASHING
5. REMOVE EXISTING FIBERGLASS SKYLIGHT PANELS.
6. REMOVE EXISTING WALK PADS.
7. EXISTING MOTORIZED RELIEF AIR VENT WITH RELIEF HOOD TO REMAIN.
8. EXISTING PRE-ENGINEERED METAL ROOF SYSTEM TO REMAIN
9. EXISTING LOW-SLOPED ROOFING SYSTEM TO REMAIN

ROOF PLAN GENERAL NOTES

A. WORK SHALL BE PHASED AROUND SCHOOL HOURS. THIS BUILDING IS OCCUPIED DURING SCHOOL. ALL WORK TO BE COMPLETED OVER THE SUMMER BREAK.
B. THE BUILDING SHALL BE MAINTAINED IN A WEATHER TIGHT CONDITION AT ALL TIMES.
C. CONTRACTOR SHALL HIRE A LICENSED ELECTRICAL & MECHANICAL SUBCONTRACTOR TO REMOVE, MODIFY & REINSTALL RELATED EQUIPMENT IMPACTED BY THE ROOFING PROJECT.
D. THE OWNER HAS PERFORMED ENVIRONMENTAL TESTING. A REPORT IS AVAILABLE. RESULTS ARE NEGATIVE.
E. PROVIDE DURABLOCK DB5336DS SUPPORTS FOR ALL EXISTING PIPING AND CONDUITS AT 6' O.C. MAX.

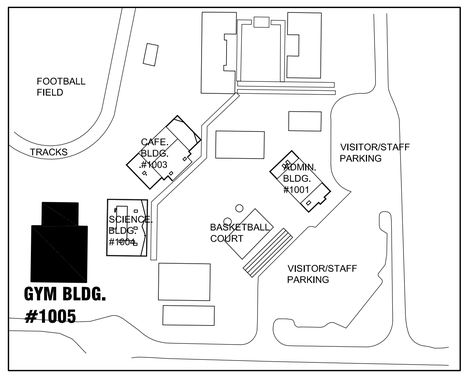


1 DEMOLITION ROOF PLAN - GYM. BUILDING 1005

SCALE: 1/16" = 1'-0"

0 8' 16' 32'

N



KEY PLAN

SCALE: 1/128" = 1'-0"

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REGISTERED ARCHITECT 23533 ROBIN A. SHAMBACH Date Signed 10.15.20 ARIZONA, U.S.A.

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DEMOLITION ROOF PLAN

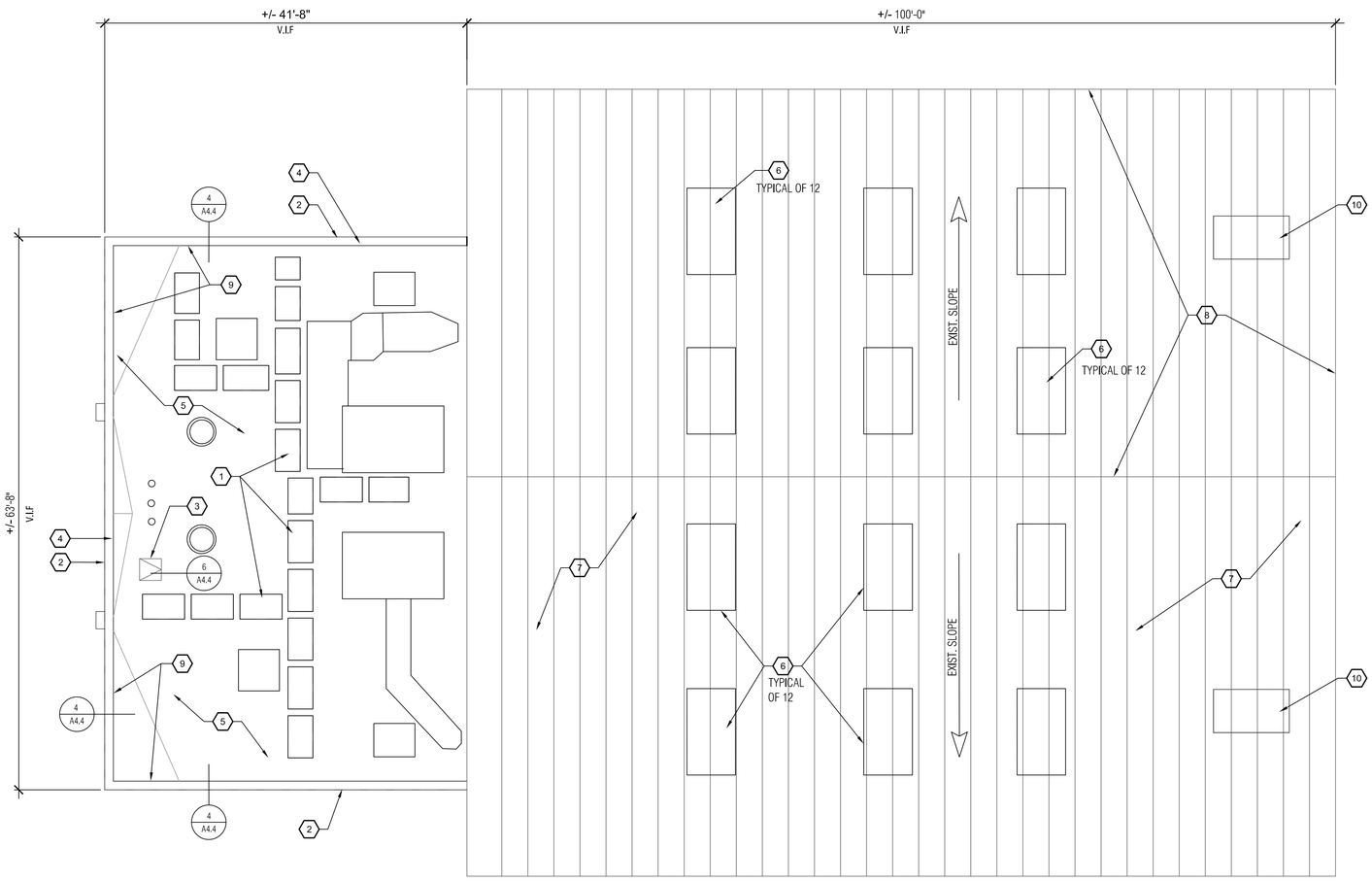
D4.1
CONSTRUCTION DOCUMENTS

ROOF PLAN KEY NOTES

1. PROVIDE NEW WALK-PADS.
2. PROVIDE PREFINISHED METAL PARAPET CAP AT EXISTING CMU BLOCK WALL.
3. EXISTING ROOF HATCH, PROVIDE LADDER UP EXTENSION/SAFETY POLE AT INTERNAL ROOF LADDER.
4. REPAIR AND RECOAT BACK OF PARAPETS. SEE SPEC.
5. PROVIDE NEW "COOL ROOF" COATING.
6. REPLACE SKYLIGHT WITH MATCHING METAL ROOF PANELS
7. REMOVE AND REPLACE ALL METAL FASTENERS. PROVIDE COOL ROOF COATING
8. REPAIR AND REWORK FLASHING & TRIM FOR WATER-TIGHTNESS.
9. REPLACE ALL SEALANTS AT TOPS OF TERMINATION BAR/COUNTERFLASHING.
10. EXISTING MOTORIZED RELIEF AIR VENT WITH RELIEF HOOD TO REMAIN.

ROOF PLAN GENERAL NOTES

A. WORK SHALL BE PHASED AROUND SCHOOL HOURS. THIS BUILDING IS OCCUPIED DURING SCHOOL. ALL WORK TO BE COMPLETED OVER THE SUMMER BREAK.
B. THE BUILDING SHALL BE MAINTAINED IN A WEATHER TIGHT CONDITION AT ALL TIMES.
C. CONTRACTOR SHALL HIRE A LICENSED ELECTRICAL & MECHANICAL SUBCONTRACTOR TO REMOVE, MODIFY & REINSTALL RELATED EQUIPMENT IMPACTED BY THE ROOFING PROJECT.
D. THE OWNER HAS PERFORMED ENVIRONMENTAL TESTING. A REPORT IS AVAILABLE. RESULTS ARE NEGATIVE.
E. PROVIDE DURABLOCK DB5336DS SUPPORTS FOR ALL EXISTING PIPING AND CONDUITS AT 6' O.C. MAX.

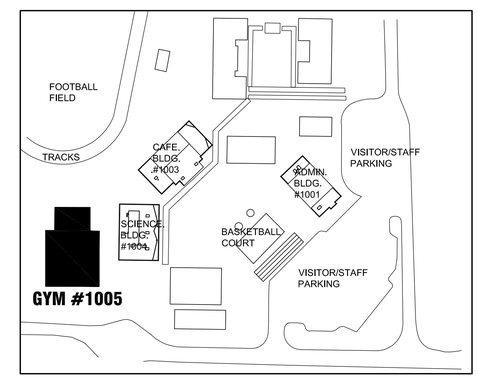


1 ROOF PLAN - GYM. BUILDING 1005

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

0 4' 8' 16'

N



KEY PLAN

SCALE: 1/128" = 1'-0"

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EXPIRES 06/30/2022

DRAWN BY: SN, HA
JOB NO: 2001.100
DATE: 15 OCTOBER '20
REVISIONS

ROOF PLAN

A4.1
CONSTRUCTION DOCUMENTS

DEMOLITION ROOF PLAN KEY NOTES

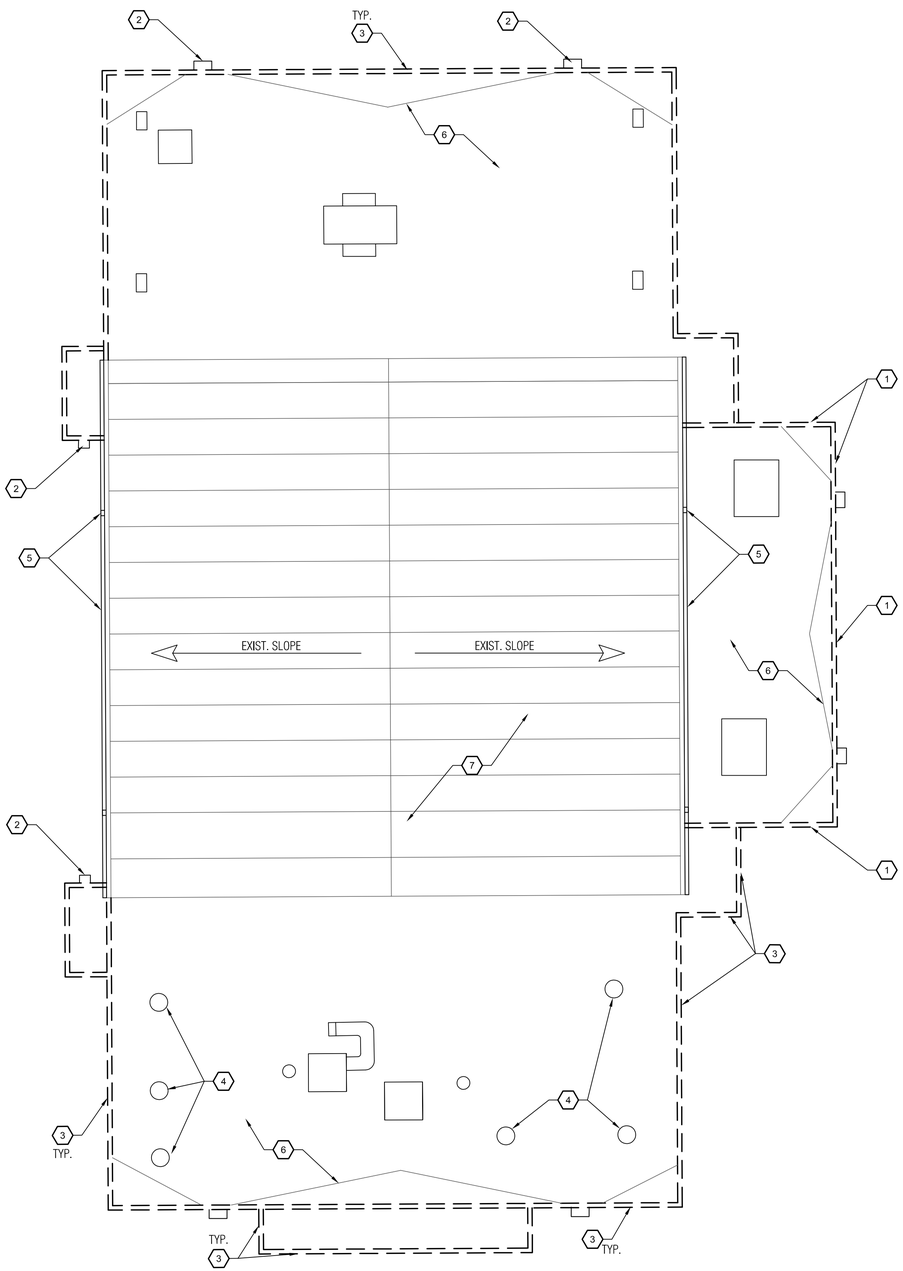
1. EXISTING EXPOSED CMU PARAPET WALL
2. EXISTING THROUGH-WALL SCUPPER TO REMAIN.
3. REMOVE EXISTING PARTIAL METAL PARAPET CAPS.
4. EXISTING SOLATUBES TO REMAIN.
5. EXISTING GUTTER & DOWN-LEADERS TO REMAIN
6. EXISTING CRICKET & ROOFING SYSTEMS TO REMAIN
7. EXISTING METAL ROOFING SYSTEM TO REMAIN

ROOF PLAN KEY NOTES

1. PREFINISHED METAL PARAPET CAP ON EXISTING EXPOSED CMU PARAPET WALL. COORDINATE TERMINATION AT EXISTING METAL TERMINATION BAR. SEE DETAIL 4/A-4.4
2. PREFINISHED METAL PARAPET CAP REPLACING PARTIAL METAL CAP. SEE DETAIL 5/A-4.4
3. RECOAT BACK OF PARAPET. SEE SPEC.
4. EXISTING SOLATUBES TO REMAIN.
5. PROVIDE "COOL ROOF" COATING SYSTEM FOR ROOF. SEE SPEC.
6. REMOVE AND REPLACE ALL METAL ROOFING FASTENERS. PROVIDE COOL ROOF COATING.
7. REPAIR AND REWORK FLASHING AND TRIM FOR WEATHER TIGHTNESS.

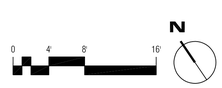
ROOF PLAN GENERAL NOTES

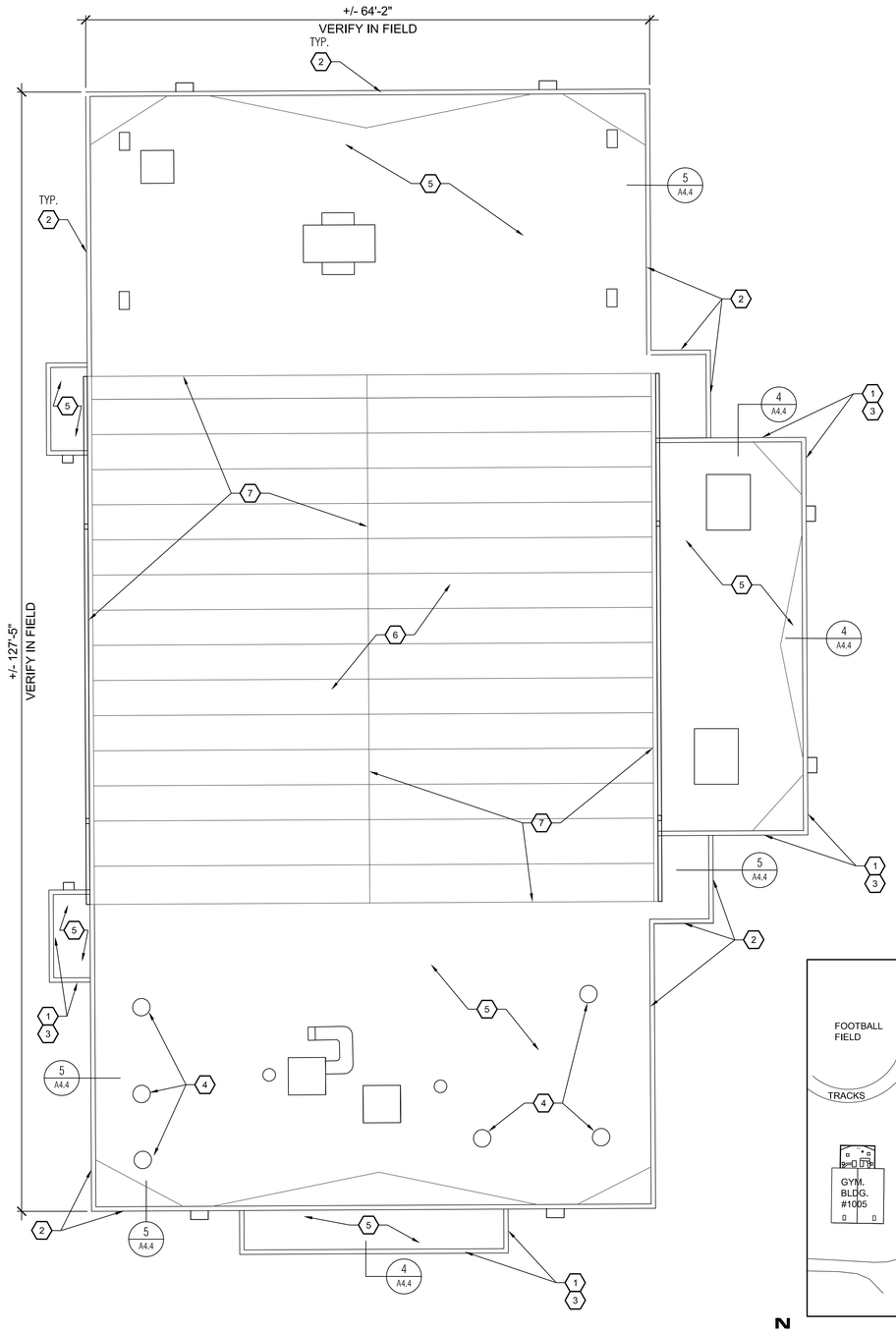
A. WORK SHALL BE PHASED AROUND SCHOOL HOURS. THIS BUILDING IS OCCUPIED DURING SCHOOL. ALL WORK COMPLETED OVER THE SUMMER BREAK. SEE SHEET G1.2.
B. THE BUILDING SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
C. PROVIDE DURABLOCK DB5336DS FOR ALL PIPING & CONDUITS.



1 DEMOLITION ROOF PLAN - CAFE. BUILDING 1003

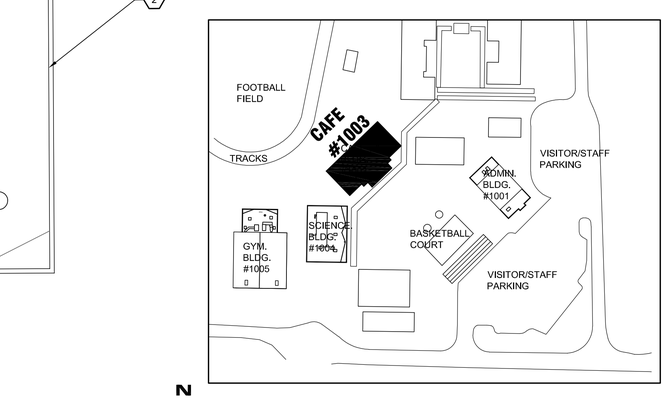
SCALE: 1/8" = 1'-0"

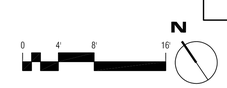




2 ROOF PLAN - CAFE. BUILDING 1003

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





KEY PLAN

SCALE: 1/128" = 1'-0"

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REVISIONS

DEMOLITION ROOF PLAN & ROOF PLAN

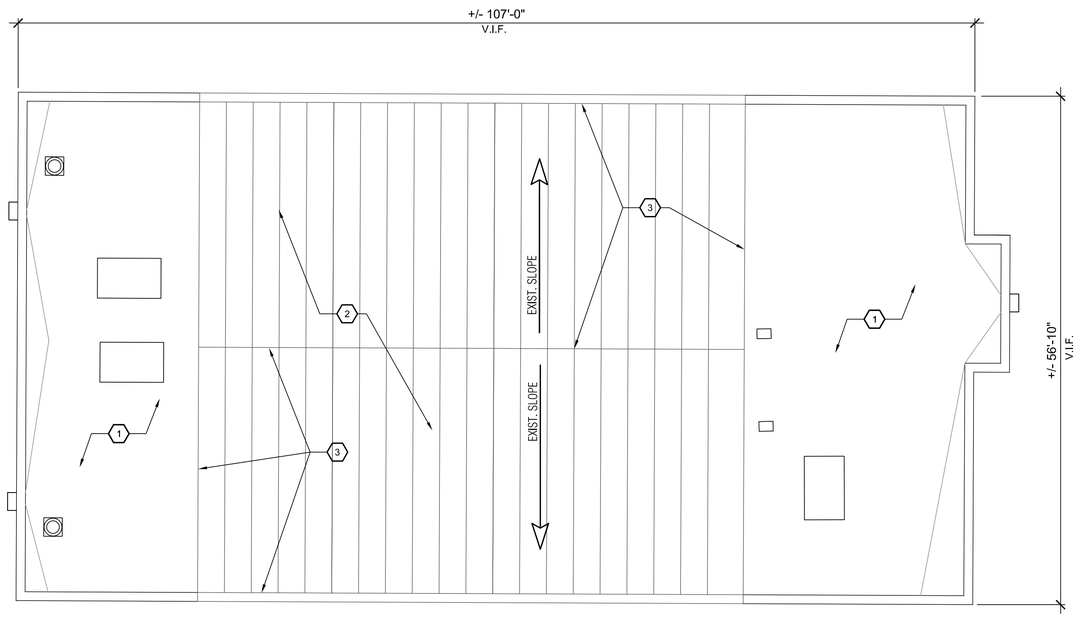
A4.2
CONSTRUCTION DOCUMENTS

ROOF PLAN KEY NOTES

1. NO WORK AT LOW-SLOPED ROOF AREA.
2. REMOVE & REPLACE ALL FASTENERS. PROVIDE COOL ROOF COATING
3. REPAIR AND RE-WORK FLASHING AND TRIM FOR WEATHER TIGHTNESS.

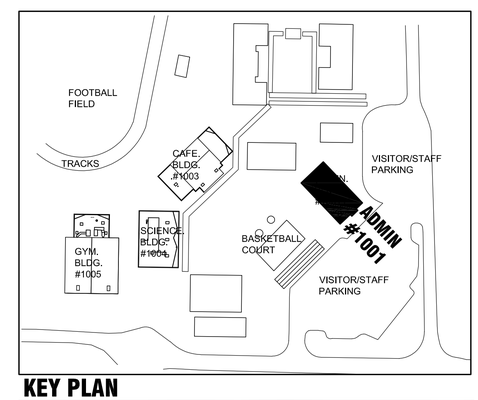
ROOF PLAN GENERAL NOTES

A. WORK SHALL BE PHASED AROUND SCHOOL HOURS. THIS BUILDING IS OCCUPIED DURING SCHOOL. ALL WORK TO BE COMPLETED OVER THE SUMMER BREAK.
B. THE BUILDING SHALL BE MAINTAINED IN A WEATHER TIGHT CONDITION AT ALL TIMES.
C. THE OWNER HAS PERFORMED ENVIRONMENTAL TESTING. A REPORT IS AVAILABLE. RESULTS ARE NEGATIVE.
D. PROVIDE DURABLOCK DB5336DS SUPPORTS FOR ALL EXISTING PIPING & CONDUITS AT 6' O.C. MAX.



2 ROOF PLAN - ADMIN. BUILDING 1001

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



KEY PLAN

SCALE: 1/128" = 1'-0"

bws ARCHITECTS
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CONSULTANTS

ORACLE SCHOOL DISTRICT
MOUNTAIN VISTA ELEMENTARY SCHOOL
RE-ROOFING
2618 W. El Paseo, Oracle, AZ 85623

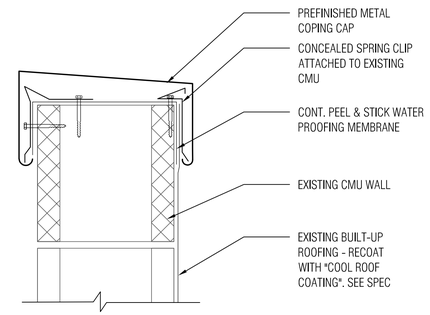
REGISTERED ARCHITECT
CERTIFICATE NO. 23533
ROBIN A. SHAMBACH
Date Signed 10.15.20
ARIZONA, U.S.A.

EXPIRES 06/30/2022

DRAWN BY: SN/ HA
JOB NO: 2001.100
DATE: 15 OCTOBER '20
REVISIONS

ROOF PLAN

A4.3
CONSTRUCTION DOCUMENTS

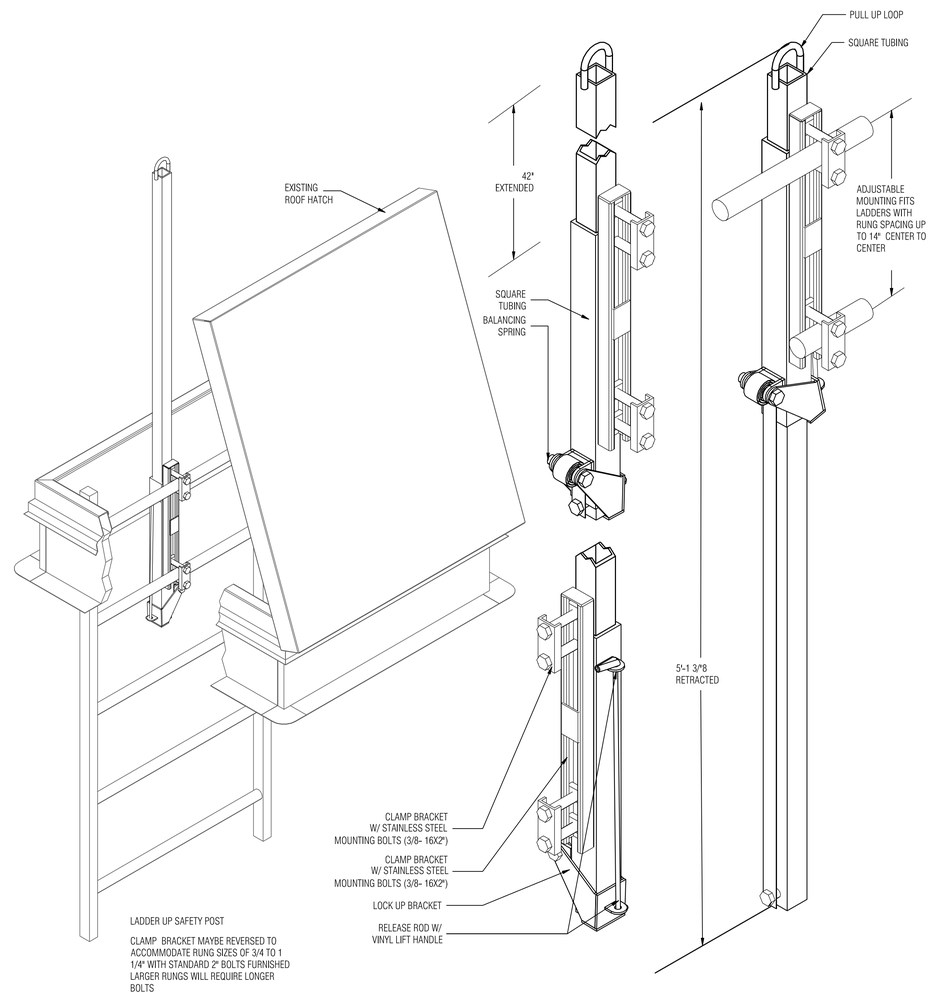


5 **METAL PARAPET CAP AT EXISTING CMU**
SCALE: 3"=1'-0"

COPINGCAP

1 **NOT USED**
SCALE:

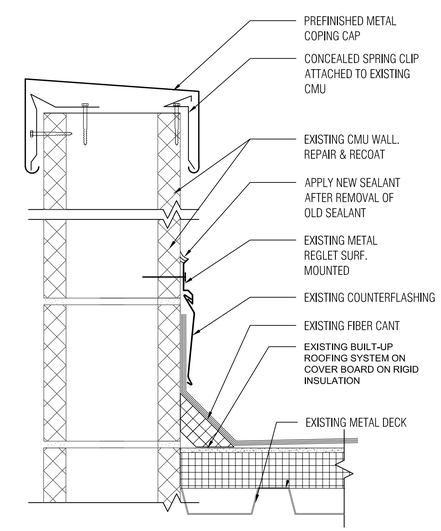
7-002



6 **LADDER UP STAFY POST**
SCALE: N.T.S.

2 **NOT USED**
SCALE:

7-002



4 WALL FLASHING & PARAPET CAP DETAIL AT CMU PARAPET__
SCALE: 3"=1'-0"

7-099

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ROOFING DETAILS

A4.4
CONSTRUCTION DOCUMENTS