

# Replace Roof Systems, Multiple Assets Farmington Correctional Center Farmington, Missouri

OWNER:

STATE OF MISSOURI  
MICHAEL L PARSON,  
GOVERNOR

DEPARTMENT OF  
CORRECTIONS

PROJECT  
MANAGEMENT:

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION



STATE OF MISSOURI CERTIFICATE OF AUTHORITY #2018019473

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PROJECT NUMBER:

C1922-01

SITE NUMBER:

7008

ASSET NUMBER:

9327008082, 9327008081, 9327008080, 9327008079,  
9327008089, 9327008090, 9327008091



Signed Electronically

BID DOCUMENTS

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

G000

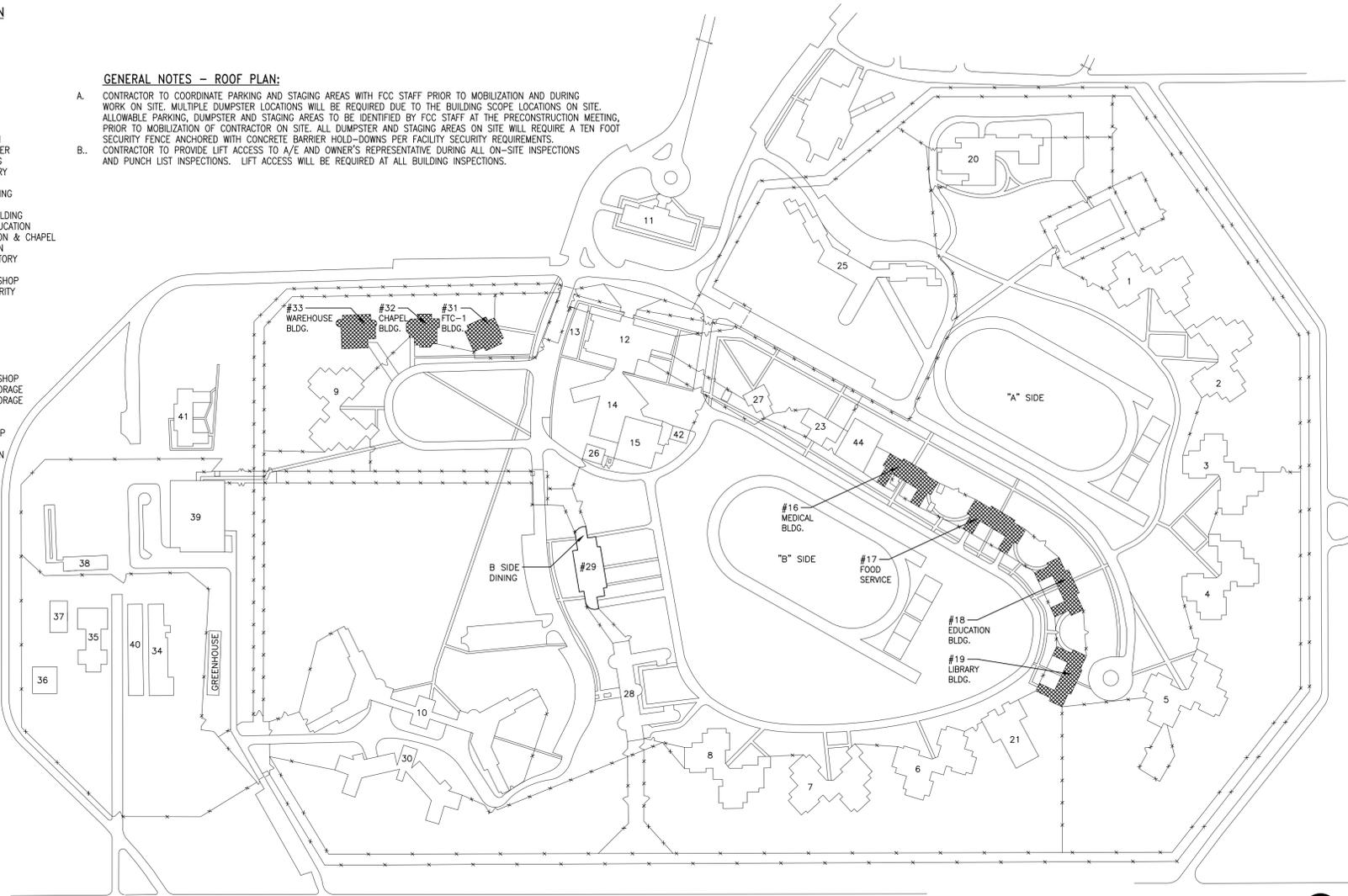
SHEET 1 OF 29  
02-07-2020

**BUILDING NO. DESCRIPTION**

- 1 HOUSING
- 2 HOUSING
- 3 HOUSING
- 4 HOUSING
- 5 HOUSING
- 6 HOUSING
- 7 HOUSING
- 8 HOUSING
- 9 HOUSING
- 10 HOUSING
- 11 ADMINISTRATION
- 12 CONTROL CENTER
- 13 A & B VISITING
- 14 KITCHEN/BAKERY
- 15 WAREHOUSE
- 16 MEDICAL BUILDING
- 17 A - DINING
- 18 EDUCATION BUILDING
- 19 LIBRARY & EDUCATION
- 20 A - RECREATION & CHAPEL
- 21 B- RECREATION
- 22 MATTRESS FACTORY
- 23 FTC-2
- 24 MAINTENANCE SHOP
- 25 CENTRAL SECURITY
- 26 HOUSING
- 27 B SIDE DINING
- 28 HOUSING
- 29 FTC-1
- 30 HOUSING
- 31 CHAPEL
- 32 WAREHOUSE
- 33 POWER HOUSE
- 34 MAINTENANCE SHOP
- 35 EQUIPMENT STORAGE
- 36 EQUIPMENT STORAGE
- 37 STORAGE
- 38 LAUNDRY
- 39 PLUMBING SHOP
- 40 TRAINING
- 41 OFFICE/KITCHEN
- 42 GARAGE
- 43 CANTEN
- 44

**GENERAL NOTES -- ROOF PLAN:**

- A. CONTRACTOR TO COORDINATE PARKING AND STAGING AREAS WITH FCC STAFF PRIOR TO MOBILIZATION AND DURING WORK ON SITE. MULTIPLE DUMPSTER LOCATIONS WILL BE REQUIRED DUE TO THE BUILDING SCOPE LOCATIONS ON SITE. ALLOWABLE PARKING, DUMPSTER AND STAGING AREAS TO BE IDENTIFIED BY FCC STAFF AT THE PRECONSTRUCTION MEETING, PRIOR TO MOBILIZATION OF CONTRACTOR ON SITE. ALL DUMPSTER AND STAGING AREAS ON SITE WILL REQUIRE A TEN FOOT SECURITY FENCE ANCHORED WITH CONCRETE BARRIER HOLD-DOWNS PER FACILITY SECURITY REQUIREMENTS.
- B. CONTRACTOR TO PROVIDE LIFT ACCESS TO A/E AND OWNER'S REPRESENTATIVE DURING ALL ON-SITE INSPECTIONS AND PUNCH LIST INSPECTIONS. LIFT ACCESS WILL BE REQUIRED AT ALL BUILDING INSPECTIONS.



**DRAWING INDEX**

- 1 G000 COVER SHEET
- 2 G001 PROJECT INFORMATION

**ARCHITECTURAL:**

- 3 AD102 BUILDING #17 DEMO ROOF PLAN
- 4 A101 BUILDING #16 ROOF PLANS
- 5 A102 BUILDING #17 ROOF PLAN
- 6 A103 BUILDING #18 ROOF PLANS
- 7 A104 BUILDING #19 ROOF PLANS
- 8 A105 BUILDING #31 ROOF PLANS
- 9 A106 BUILDING #32 ROOF PLANS
- 10 A107 BUILDING #33 ROOF PLANS
- 11 AS00 DETAILS
- 12 AS01 DETAILS
- 13 AS02 DETAILS

**STRUCTURAL:**

- 14 S000 GENERAL NOTES
- 15 S101 ROOF FRAMING PLAN - BUILDING 17
- 16 S102 ROOF FRAMING PLAN - BUILDING 31
- 17 S103 ROOF FRAMING PLAN - BUILDING 32
- 18 S104 ROOF FRAMING PLAN - BUILDING 33

**MECHANICAL/ELECTRICAL:**

- 19 ME000 MECHANICAL & ELECTRICAL COVER SHEET
- 20 ME200 BLDG. 16 ROOF PLANS - MECHANICAL & ELECTRICAL
- 21 ME201 BLDG. 17 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION
- 22 ME201 BLDG. 17 ROOF PLANS - MECHANICAL & ELECTRICAL
- 23 ME202 BLDG. 18 ROOF PLANS - MECHANICAL & ELECTRICAL
- 24 ME203 BLDG. 19 ROOF PLANS - MECHANICAL & ELECTRICAL
- 25 ME204 BLDG. 31 ROOF PLANS - MECHANICAL & ELECTRICAL
- 26 ME205 BLDG. 32 ROOF PLANS - MECHANICAL & ELECTRICAL
- 27 ME206 BLDG. 33 ROOF PLANS - MECHANICAL & ELECTRICAL
- 28 ME300 MECHANICAL & ELECTRICAL DETAILS & DIAGRAMS
- 29 ME500 MECHANICAL & ELECTRICAL SCHEDULES

**CODE INFORMATION**

(ICC) INTERNATIONAL BUILDING CODE (2018 EDITION)  
 (ICC) INTERNATIONAL EXISTING BUILDING CODE (2018 EDITION)  
 (NFPA) NATIONAL FIRE PROTECTION ASSOCIATION 70 (2014 EDITION)  
 (NFPA) NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (2015 EDITION)  
 2018 ICC INTERNATIONAL ENERGY CONSERVATION CODE  
 NATIONAL ELECTRICAL CODE (2008 EDITION)  
 INTERNATIONAL MECHANICAL CODE (2018 EDITION)  
 INTERNATIONAL PLUMBING CODE (2018 EDITION)  
 ENERGY CONSERVATION CODE - ASHRAE 90.1 (2016 EDITION)  
 NRCA ROOFING AND WATERPROOFING MANUAL  
 ARCHITECT/ENGINEER'S ROOF DESIGN GUIDELINES - MISSOURI DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

**PROJECT INFORMATION:**  
 BUILDING #16 (9327008082) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION  
 BUILDING #17 (9327008081) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION  
 BUILDING #18 (9327008090) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION  
 BUILDING #19 (9327008079) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION  
 BUILDING #31 (9327008089) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION  
 BUILDING #32 (9327008090) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION  
 BUILDING #33 (9327008091) - EXISTING 2-STORY BUILDING, ATTIC SPACE/WOOD CONSTRUCTION

**ALTERNATES**

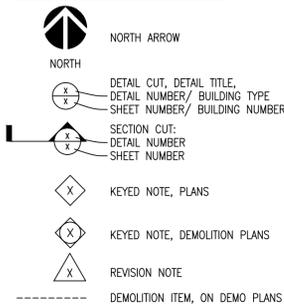
ALTERNATE #1: AT BUILDING 18, SCRAPE CLEAN AND REPAINT EXISTING FASCIA, SOFFIT AND TRIM ALONG TOP OF EXTERIOR WALL CONSTRUCTION/ROOF AREA FOR ENTIRE BUILDING. COMPLY WITH LEAD PAINT REMOVAL AS INDICATED IN THE DOCUMENTS AND HAZARDOUS MATERIALS REPORT. PRIME WOOD AND APPLY (2) COATS OF PAINT PER PAINTING MANUFACTURER.

ALTERNATE #2: AT BUILDING 31, SCRAPE CLEAN AND REPAINT EXISTING FASCIA, SOFFIT AND TRIM ALONG TOP OF EXTERIOR WALL CONSTRUCTION/ROOF AREA FOR ENTIRE BUILDING. COMPLY WITH LEAD PAINT REMOVAL AS INDICATED IN THE DOCUMENTS AND HAZARDOUS MATERIALS REPORT. PRIME WOOD AND APPLY (2) COATS OF PAINT PER PAINTING MANUFACTURER. AT AREAS OF SOFFIT/FASCIA REPLACEMENT INCLUDE SCRAPING CLEAN AND REPAINTING EXISTING EXTERIOR WALL TRIM TO REMAIN AS ALTERNATE SCOPE OF WORK.

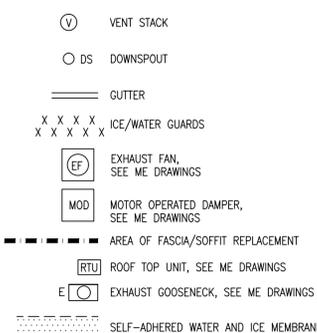
ALTERNATE #3: AT BUILDING 33, SCRAPE CLEAN AND REPAINT EXISTING FASCIA, SOFFIT AND TRIM ALONG TOP OF EXTERIOR WALL CONSTRUCTION/ROOF AREA FOR ENTIRE BUILDING. COMPLY WITH LEAD PAINT REMOVAL AS INDICATED IN THE DOCUMENTS AND HAZARDOUS MATERIALS REPORT. PRIME WOOD AND APPLY (2) COATS OF PAINT PER PAINTING MANUFACTURER. AT AREAS OF SOFFIT/FASCIA REPLACEMENT INCLUDE SCRAPING CLEAN AND REPAINTING EXISTING EXTERIOR WALL TRIM TO REMAIN AS ALTERNATE SCOPE OF WORK.

**2 OVERALL SITE PLAN -- FARMINGTON CORRECTIONAL CENTER G001 NOT TO SCALE**

**STANDARD NOTATION**



**ROOF SYMBOLS**



**STANDARD ARCHITECTURAL ABBREVIATIONS**

A.B. ANCHOR BOLT	(E) EXISTING ITEM	JAN. JANITOR	REIN. REINFORCED, REINFORCING
A.COUS. ACOUSTIC	EACH EACH	JT. JOINT	REQU. REQUIRED
A.C.T. ACOUSTIC TILE CEILING	E.J. EXPANSION JOINT	REV. REVISION, REVERSED	R.T. RUBBER TILE
ADJ. ADJUSTABLE, ADJACENT	ELEC. ELECTRICAL	L.P. LIGHT POLE	S&P SHELF AND POLE
A.F.F. ABOVE FINISHED FLOOR	ELEV. ELEVATION, ELEVATOR	MAS. MASONRY	SC SOLID CORE
ALT. ALTERNATE	ENG. ENGINEER	MAX. MAXIMUM	SCHD. SCHEDULE
ALUM. ALUMINUM	E.P. ELECTRIC PANEL	M.E. MATCH EXISTING	SECT. SECTION
ARCH. ARCHITECT	EQ. EQUIPMENT	MECH. MECHANICAL	SEP. SEPARATE, SEPARATION
BC. BASE CABINET	E.W.C. ELECTRIC WATER COOLER	MFR. MANUFACTURER	SHT. SHEET
BD. BOARD	EXIST. EXISTING	M.H. MAN HOLE	SHTG. SHEATHING
BET. BETWEEN	EXP. EXPOSED, EXPANSION	MIN. MINIMUM	SM. SIMILAR
BLDG. BUILDING	EXT. EXTERIOR	MISC. MISCELLANEOUS	SPCS. SPACES
BLKG. BLOCKING	F. FILLER PANEL	M.D.G. MOULDING	SPEC. SPECIFICATION(S)
BM. BEAM	F.D. FLOOR DRAIN	M.O. MASONRY OPENING	SQ. SQUARE
B.O. BY OTHERS	FDN. FOUNDATION	MTD. MOUNTED	STL. STEEL
BOT. BOTTOM	F.E. FIRE EXTINGUISHER	MTL. METAL	STOR. STORAGE
BRG. BEARING	F.H. FIRE HYDRANT	MTRL. MATERIAL	STRUCT. STRUCTURE, STRUCTURAL
C. CENTERLINE	FIN. FINISH	(N) NEW ITEM	S.V. SHEET VINYL
CAB. CABINET	FLR. FLOOR	N.I.C. NOT IN CONTRACT	T&G TONGUE AND GROOVE
CEM. CEMENT	FLUOR. FLUORESCENT	No. NUMBER	T/ TERRAZZO
C.J. CONTROL JOINT	F.P.H.B. FREEZE PROOF HOSE BIBB	NOM. NOMINAL	TERR. TERRAZZO
CLG. CEILING	F.R. FIRE RATED	NOM.(±) NOT TO SCALE	THRESH. THRESHOLD
CLOS. CLOSET	F.R.T. FIRE RETARDANT TREATED	O.C. ON CENTER	THRU THROUGH
CLR. CLEAR	FT. FOOT, FEET	O.D. OUTSIDE DIAMETER	TPO THERMOPLASTIC OLEFIN MEMBRANE ROOFING
C.M.U. CONCRETE MASONRY UNIT	FTG. FOOTING	OPNG. OPENING	TYP. TYPICAL
COL. COLUMN	GA. GAUGE	OPP. OPPOSITE	U.L. UNDERWRITERS LABORATORY
COMP. COMPACTED, COMPRESSIBLE	GALV. GALVANIZED	P.LAM. PLASTIC LAMINATE	U.N.O. UNLESS OTHERWISE NOTED
CONC. CONCRETE	G.C. GENERAL CONTRACTOR	PLYWD. PLYWOOD	V.B. VAPOR BARRIER, VANITY
CONST. CONSTRUCTION	GR. GRADE	P.T. PAINT	BASE BASE
CONT. CONTINUOUS	GYP. GYPSUM	P.V.C. POLY-VINYL CHLORIDE	V.C.T. VINYL COMPOSITION TILE
CORR. CORRIDOR	HC. HOLLOW CORE, HANDICAPPED	P.V.T. PAVER TILE	VEST. VESTIBULE
CPT. CARPET	HDWR. HARDWARE	Q.T. QUARRY TILE	VERT. VERTICAL
C.R.C. COLD ROLLED CHANNEL	H.M. HOLLOW METAL	(R) RELOCATED ITEM	W. WASHER
C.T. CERAMIC TILE	HORIZ. HORIZONTAL	R. RISER, RADIUS	W/ WITH
D. DRYER	HR. HOUR	R.B. RESILIENT BASE	WC WALL CABINET
DB. DRAWER BASE	HT. HEIGHT	R.D. ROOF DRAIN	WD. WOOD
DEMO. DEMOLITION	H.V.A.C. HEATING, VENTILATION, AND AIR CONDITIONING	R.O. ROUGH OPENING	WH. WATER HEATER
DET. DETAIL	I. INSULATED	R.O. RECESSED	WOLM. WOLMANIZED
D.F. DRINKING FOUNTAIN	I.D. INTERIOR DIAMETER	REC. REFRIGERATOR	WP. WATERPROOF(ING)
DIA., (ø) DIAMETER	INSUL. INSULATION	REF. REF.	WT. WOOD TILE
DISP. DISPENSER	INT. INTERIOR		W.W.F. WELDED WIRE FABRIC
DS. DOWNSPOUT			
DWG. DRAWING			

NOTE: NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY BE USED.

STATE OF MISSOURI  
 MICHAEL L PARSON,  
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 CERTIFICATE OF AUTHORITY #2018019473

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**MANAGEMENT,**  
**DESIGN AND CONSTRUCTION**

**DEPARTMENT OF**  
**CORRECTIONS**

**1012 WEST COLUMBIA ST.**  
**FARMINGTON, MO 63640**

REPLACE ROOF SYSTEMS  
 MULTIPLE ASSETS  
 FARMINGTON  
 CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
 SITE # 7008  
 ASSET # 9327008089,  
 9327008090, 9327008091, 9327008082  
 9327008081, 9327008080, 9327008079

REVISION: -  
 DATE: -  
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 ISSUE DATE: FEBRUARY 7, 2020

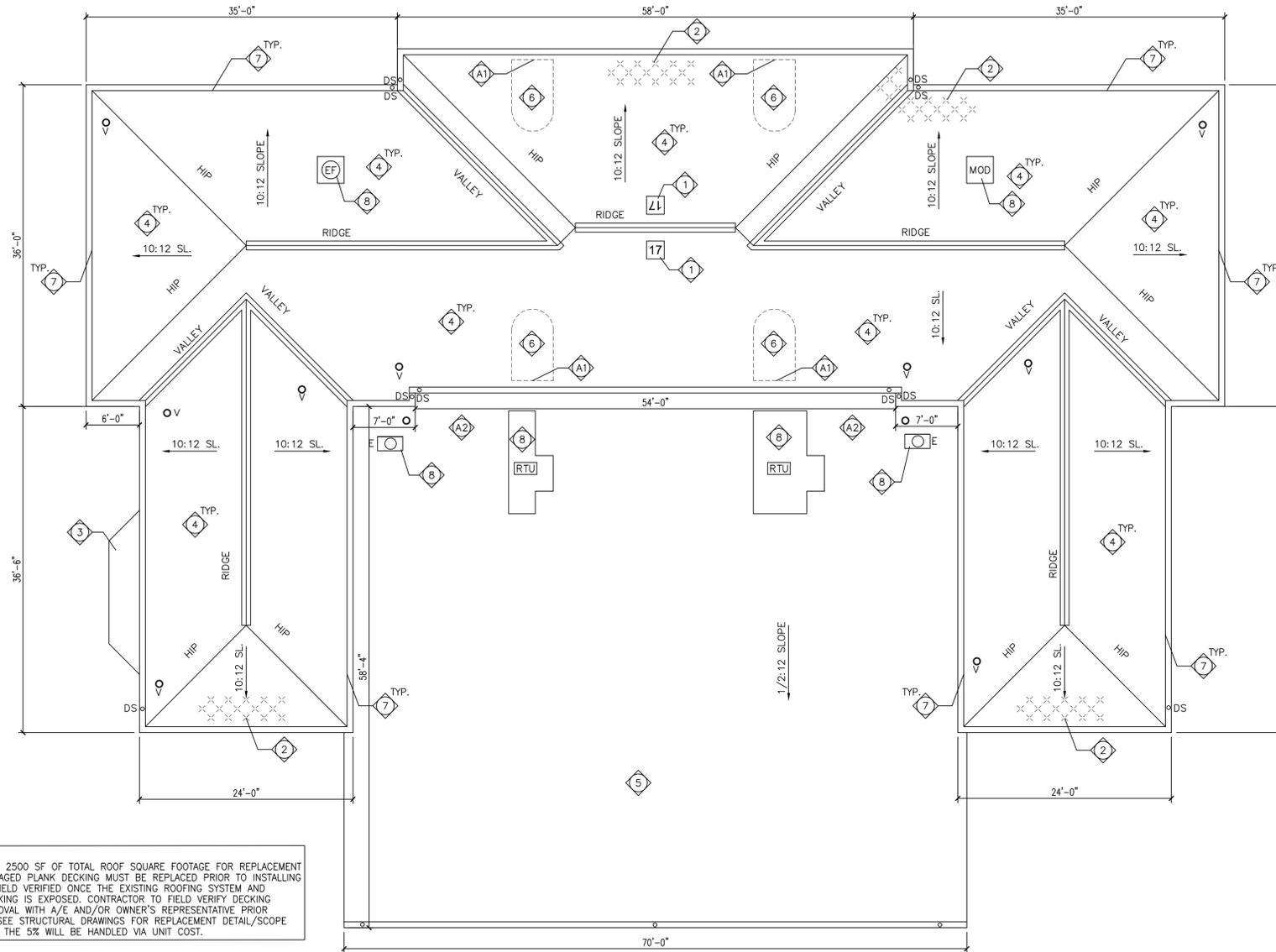
CAD DWG FILE: G-001  
 DRAWN BY: EL  
 CHECKED BY: EL  
 DESIGNED BY: EL

SHEET TITLE:

**PROJECT**  
**INFORMATION**

SHEET NUMBER:

**G001**



NOTE:  
 CONTRACTOR IS RESPONSIBLE FOR INCLUDING 2500 SF OF TOTAL ROOF SQUARE FOOTAGE FOR REPLACEMENT OF EXISTING PLANK DECKING. AREAS OF DAMAGED PLANK DECKING MUST BE REPLACED PRIOR TO INSTALLING NEW ROOFING SYSTEM. LOCATIONS WILL BE FIELD VERIFIED ONCE THE EXISTING ROOFING SYSTEM AND UNDERLAYMENT IS REMOVED AND PLANK DECKING IS EXPOSED. CONTRACTOR TO FIELD VERIFY DECKING CONDITIONS AND COORDINATE AREAS OF REMOVAL WITH A/E AND/OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW ROOFING SYSTEM. SEE STRUCTURAL DRAWINGS FOR REPLACEMENT DETAIL/SCOPE OF WORK. DAMAGED PLANK DECKING BEYOND THE 5% WILL BE HANDLED VIA UNIT COST.

1 FOOD SERVICE BUILDING #17 - DEMOLITION ROOF PLAN  
 1/8" = 1'-0"



**GENERAL NOTES -- HAZARDOUS MATERIALS:**

- A. LEAD-BASED PAINT WAS IDENTIFIED ON NUMEROUS SUBSTRATES ASSOCIATED WITH THE ROOFING REPLACEMENT PROJECT. THE INSPECTION RESULTS ARE FOUND IN THE REPORT TITLED "LIMITED ASBESTOS AND LEAD SURVEY".
- B. THE PAINTING CONTRACTOR'S EMPLOYEES SHALL HAVE HAD THE EPA LEAD RENOVATION, REPAIR AND PAINTING (RRP) CERTIFIED RENOVATOR COURSE. EPA'S RRP RULE REQUIRES RENOVATION, REPAIR AND PAINTING FIRMS WORKING ON PRE-1978 BUILDINGS TO ASSIGN TO EACH JOB A CERTIFIED RENOVATOR WHO IS TRAINED IN LEAD-SAFE WORK PRACTICES. THE TRAINING MUST BE TAUGHT BY AN EPA OR STATE ACCREDITED TRAINING PROVIDER.
- C. PAINTING CONTRACTOR MUST BE FAMILIAR WITH EPA DOCUMENT TITLED "SMALL ENTITY COMPLIANCE GUIDE TO RENOVATE RIGHT; EPA'S LEAD-BASED PAINT RENOVATION, RENOVATION, REPAIR AND PAINTING PROGRAM" (REVISED SEPTEMBER 2011 VERSION).
- D. THE PAINTING CONTRACTOR MUST USE LEAD-SAFE WORK PRACTICES WHEN CONDUCTING PAINTING OPERATIONS ON BUILDINGS 17, 18, 31, 32, AND 33.
- E. THE PAINTING CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD 29 CFR 1926.62, LEAD IN CONSTRUCTION, INCLUDING AIR SAMPLING OF REPRESENTATIVE TASKS TO DETERMINE RESPIRATOR REQUIREMENTS IF WARRANTED.
- F. ALL PAINT CHIPS AND GENERATED WASTE FROM BUILDINGS 17, 18, 31, 32, AND 33 SHALL BE TESTED BY THE PAINTING CONTRACTOR USING TOXIC CHARACTERISTIC LEACHATE PROCESS (TCLP) ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
- G. TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN OTHER AREAS OF THE PROJECT. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THE XRF THRESHOLD VALUE OF 1.0 MG/CM2 FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED.
- H. THE LOCATIONS OF WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
- J. AT THE DISCRETION OF THE CORRECTIONAL CENTER, ADDITIONAL AIR SAMPLING MAY BE CONDUCTED DURING PAINTING OPERATIONS TO ENSURE LEAD DUST IS NOT MIGRATING AWAY FROM THE WORK SITE.
- K. ASBESTOS WINDOW GLAZING WAS IDENTIFIED FOR BUILDING 17. AVOID CONTACT WITH THIS ASBESTOS MATERIAL. DO NOT SCRAPE, ABRADE OR OTHERWISE IMPACT THE ASBESTOS.

**GENERAL NOTES -- ROOF PLANS:**

- L. THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK.
- M. THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
- N. PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
- P. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
- Q. PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR UNLESS INDICATED OTHERWISE.
- R. ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK. DIMENSIONS SHOWN FOR INFORMATION ONLY AND MAY BE PLUS/MINUS WHAT IS INDICATED.
- S. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
- T. CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
- U. THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.

**GENERAL NOTES -- BUILDING 17 ABATEMENT:**

- V. THE ABATEMENT SCOPE OF WORK CONSISTS OF REMOVING WINDOWS CONTAINING ASBESTOS WINDOW GLAZING AND CLEANING UP OF ASBESTOS WINDOW GLAZING DEBRIS FROM METAL CORRUGATED ROOF FROM BUILDING 17. WINDOWS WITH ASBESTOS GLAZING WILL BE REMOVED USING DISMANTLING TECHNIQUES. GLAZING DEBRIS WILL BE CLEANED USING HEPA VACUUMS AND GENERAL WET CLEANING METHODS INSIDE A REGULATED AREA.
- W. ALL ABATEMENT WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AND CONTRACT SPECIFICATIONS.
- X. THE LOCATIONS AND QUANTITIES OF ASBESTOS MATERIAL SHALL BE FIELD VERIFIED BY THE ABATEMENT CONTRACTOR.
- Y. ALL ABATEMENT WORK SHALL BE CONDUCTED DURING DAYLIGHT HOURS (7:00 AM TO 5:00 PM) MONDAY - FRIDAY, EXCLUDING FEDERAL HOLIDAYS. WORK SCHEDULES SHALL BE COORDINATED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
- Z. THE ABATEMENT CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN AND ABATEMENT SCHEDULE WITH THE REQUIRED SUBMITTALS.
- AA. THE LOCATIONS OF WASTE DISPOSAL CONTAINERS AND LOADOUT PROCEDURES SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
- BB. STRICT COORDINATION BETWEEN THE CORRECTIONAL CENTER, CORRECTIONAL CENTER'S REPRESENTATIVE, ABATEMENT CONTRACTOR AND GENERAL CONTRACTOR WILL BE REQUIRED FOR SUCCESSFUL COMPLETION OF THE WORK.

**KEYED NOTES -- DEMOLITION ROOF PLAN:**

- 1. REMOVE EXISTING ROOF NUMBER SIGNAGE.
- 2. REMOVE EXISTING ICE/SNOW GUARDS, LOCATIONS SHOWN FOR INFORMATION ONLY.
- 3. EXISTING COPPER ROOFING SYSTEM TO REMAIN, PROTECT AS REQUIRED DURING DEMOLITION.
- 4. REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT, FLASHING, GUTTERS, DOWNSPOUTS AND ASSOCIATED ROOFING COMPONENTS DOWN TO EXISTING DECKING. EXISTING WOOD FASCIA BOARD, TRIM AND SOFFITS TO REMAIN UNLESS NOTED OTHERWISE, PROTECT AS REQUIRED DURING DEMOLITION AND NEW ROOF SYSTEM INSTALLATION.
- 5. REMOVE EXISTING METAL ROOFING SYSTEM, FLASHING, GUTTERS AND DOWNSPOUTS AS REQUIRED FOR THE INSTALLATION OF A NEW STANDING SEAM METAL ROOFING SYSTEM. EXISTING BUILDING STRUCTURE, DECK AND SUPPORTS TO REMAIN. EXISTING METAL WRAPPED FASCIA BOARD TO REMAIN.
- 6. REMOVE EXISTING WOOD/ASPHALT SHINGLE DORMER AND ASSOCIATED WINDOW/LOUVER IN ITS ENTIRETY. SEE STRUCTURAL DOCUMENTS FOR INFILL DETAILS PRIOR TO NEW ROOF SYSTEM INSTALLATION.
- 7. EXISTING WOOD FASCIA BOARD AND SOFFITS TO REMAIN, PROTECT AS REQUIRED DURING ROOFING SYSTEM DEMOLITION AND REMOVAL.
- 8. EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT.

**KEYED NOTES -- BUILDING 17 ABATEMENT:**

- A1. COVER ASBESTOS WINDOW GLAZING WITH DUCT TAPE OR SIMILAR PRIOR TO WINDOW REMOVAL. REMOVE WINDOWS CONTAINING ASBESTOS WINDOW GLAZING FROM THE DORMERS OF BUILDING 17 USING DISMANTLING TECHNIQUES. REMOVAL SHALL BE CONDUCTED FROM OUTSIDE THE BUILDING. CRITICAL BARRIERS MUST BE INSTALLED INSIDE THE BUILDING TO PREVENT ANY GLAZING THAT MAY COME LOOSE DURING REMOVAL OPERATIONS FROM ENTERING THE BUILDING. TEMPORARY WEATHER TIGHT BARRIERS SHALL BE PLACED IN THE OPENINGS ONCE THE WINDOWS HAVE BEEN REMOVED.
- (4) DORMER WINDOWS WITH ASBESTOS GLAZING
- A2. INSIDE A REGULATED AREA, HEPA VACUUM ASBESTOS WINDOW GLAZING DEBRIS FROM THE METAL CORRUGATED ROOF IN THE REAR OF BUILDING 17 AND THEN WET WIPE AREA AFTER VACUUMING. GLAZING DEBRIS IS IN CLOSE PROXIMITY TO THE BUILDING.
- 20 SQUARE FEET OF ROOF SURFACE AREA, TOTAL

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 MULTIPLE ASSETS  
 FARMINGTON  
 CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
 SITE # 7008  
 ASSET # 9327008089,  
 9327008090, 9327008091, 9327008082  
 9327008081, 9327008080, 9327008079

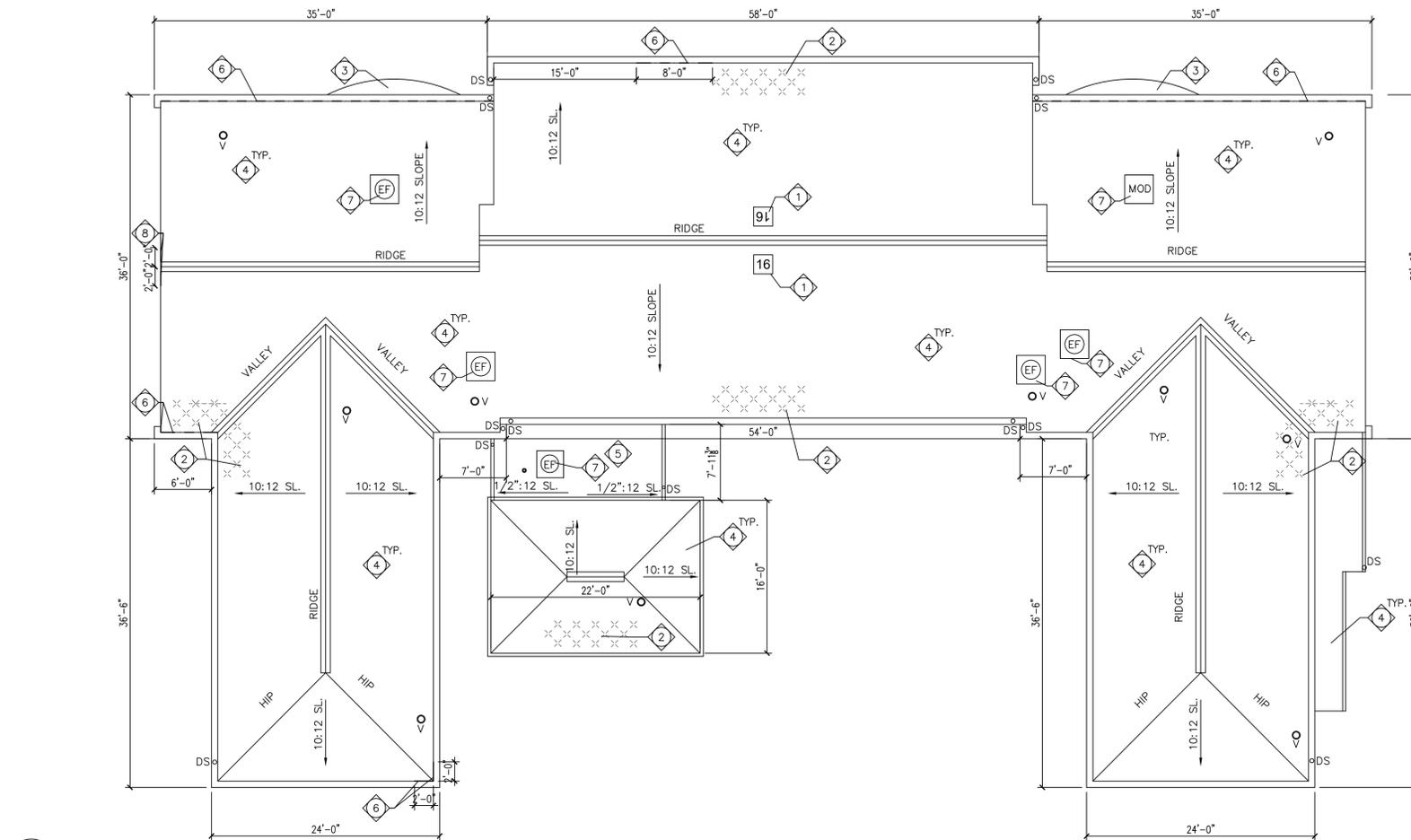
REVISION:-  
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 ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: AD-100  
 DRAWN BY: EL  
 CHECKED BY: EL  
 DESIGNED BY: EL

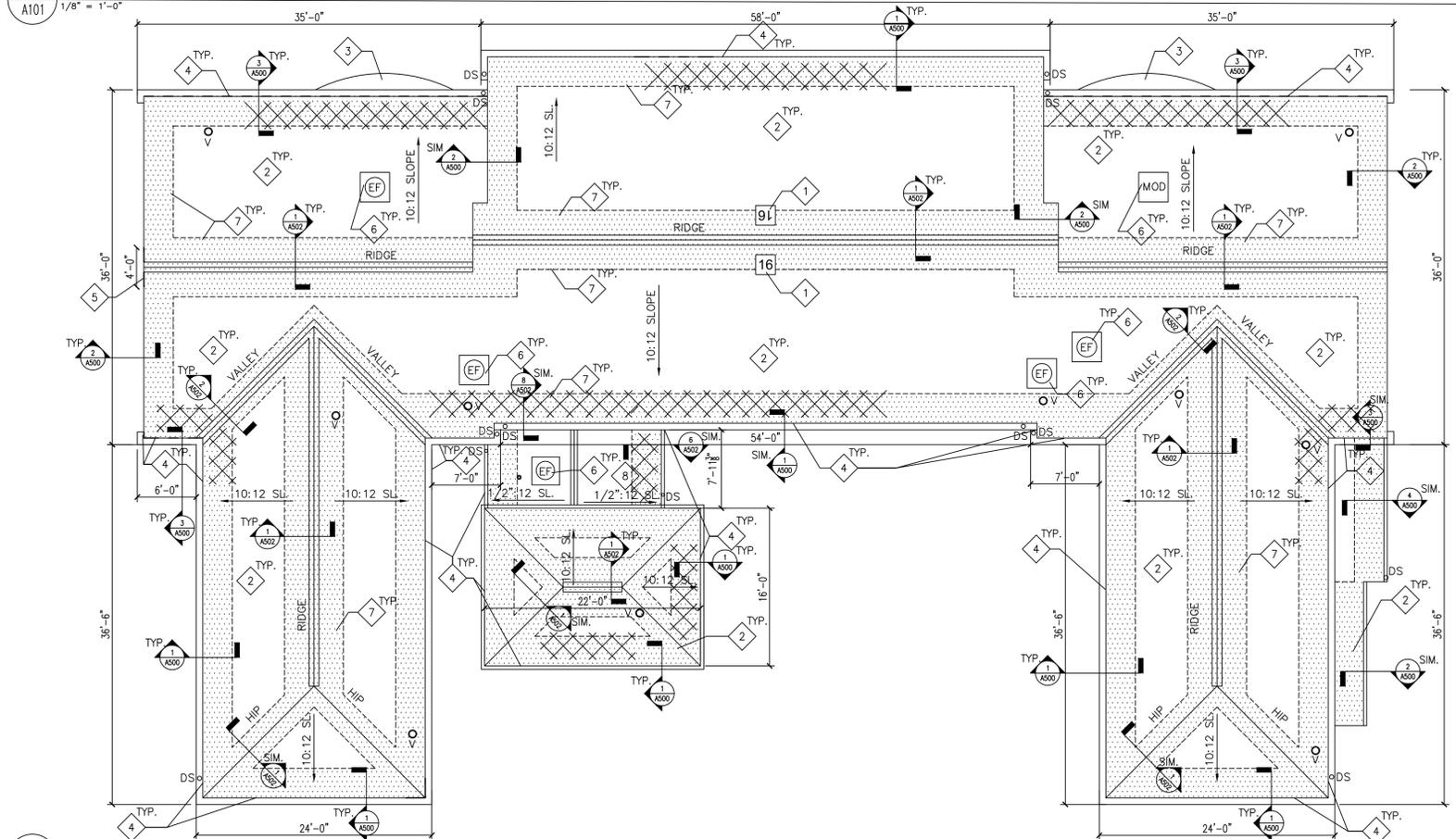
SHEET TITLE:  
 BUILDING #17  
 DEMO ROOF PLAN

SHEET NUMBER:

AD102



2 MEDICAL BUILDING #16 - DEMOLITION ROOF PLAN  
1/8" = 1'-0"



1 MEDICAL BUILDING #16 - ROOF PLAN  
1/8" = 1'-0"

**GENERAL NOTES -- HAZARDOUS MATERIALS:**

- A. LEAD-BASED PAINT WAS IDENTIFIED ON NUMEROUS SUBSTRATES ASSOCIATED WITH THE ROOFING REPLACEMENT PROJECT. THE INSPECTION RESULTS ARE FOUND IN THE REPORT TITLED "LIMITED ASBESTOS AND LEAD SURVEY".
- B. THE PAINTING CONTRACTOR'S EMPLOYEES SHALL HAVE HAD THE EPA LEAD RENOVATION, REPAIR AND PAINTING (RRP) CERTIFIED RENOVATOR COURSE. EPA'S RRP RULE REQUIRES RENOVATION, REPAIR AND PAINTING FIRMS WORKING ON PRE-1978 BUILDINGS TO ASSIGN TO EACH JOB A CERTIFIED RENOVATOR WHO IS TRAINED IN LEAD-SAFE WORK PRACTICES. THE TRAINING MUST BE TAUGHT BY AN EPA OR STATE ACCREDITED TRAINING PROVIDER.
- C. PAINTING CONTRACTOR MUST BE FAMILIAR WITH EPA DOCUMENT TITLED "SMALL ENTITY COMPLIANCE GUIDE TO RENOVATE RIGHT; EPA'S LEAD-BASED PAINT RENOVATION, RENOVATION, REPAIR AND PAINTING PROGRAM" (REVISED SEPTEMBER 2011 VERSION).
- D. THE PAINTING CONTRACTOR MUST USE LEAD-SAFE WORK PRACTICES WHEN CONDUCTING PAINTING OPERATIONS ON BUILDINGS 17, 18, 31, 32, AND 33.
- E. THE PAINTING CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD 29 CFR 1926.62, LEAD IN CONSTRUCTION, INCLUDING AIR SAMPLING OF REPRESENTATIVE TASKS TO DETERMINE RESPIRATOR REQUIREMENTS IF WARRANTED.
- F. ALL PAINT CHIPS AND GENERATED WASTE FROM BUILDINGS 17, 18, 31, 32, AND 33 SHALL BE TESTED BY THE PAINTING CONTRACTOR USING TOXIC CHARACTERISTIC LEACHATE PROCESS (TCLP) ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
- G. TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN OTHER AREAS OF THE PROJECT. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THE XRF THRESHOLD VALUE OF 1.0 MG/CM2 FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED.
- H. THE LOCATIONS OF WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
- J. AT THE DISCRETION OF THE CORRECTIONAL CENTER, ADDITIONAL AIR SAMPLING MAY BE CONDUCTED DURING PAINTING OPERATIONS TO ENSURE LEAD DUST IS NOT MIGRATING AWAY FROM THE WORK SITE.
- K. ASBESTOS WINDOW GLAZING WAS IDENTIFIED FOR BUILDING 17. AVOID CONTACT WITH THIS ASBESTOS MATERIAL. DO NOT SCRAPE, ABRADE OR OTHERWISE IMPACT THE ASBESTOS.

**GENERAL NOTES -- ROOF PLANS:**

- L. THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK.
- M. THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
- N. INFORMATION IS TAKEN FROM OWNER PROVIDED DOCUMENTS AND SITE INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
- O. PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
- P. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
- Q. PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR UNLESS INDICATED OTHERWISE.
- R. ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK. DIMENSIONS SHOWN FOR INFORMATION ONLY AND MAY BE PLUS/MINUS WHAT IS INDICATED.
- S. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
- T. CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
- U. THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
- V. AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATER-TIGHT ROOF INSTALLATION.
- W. PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS AND LOCATED DIRECTLY ABOVE EXIST. DOOR LOCATIONS AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
- X. PROVIDE NEW DOWNSPOUTS AT ALL EXISTING DOWNSPOUT LOCATIONS, SIZE PER EXISTING.

NOTE:  
CONTRACTOR IS RESPONSIBLE FOR INCLUDING 2500 SF OF TOTAL ROOF SQUARE FOOTAGE FOR REPLACEMENT OF EXISTING PLANK DECKING. AREAS OF DAMAGED PLANK DECKING MUST BE REPLACED PRIOR TO INSTALLING NEW ROOFING SYSTEM. LOCATIONS WILL BE FIELD VERIFIED ONCE THE EXISTING ROOFING SYSTEM AND UNDERLAYMENT IS REMOVED AND PLANK DECKING IS EXPOSED. CONTRACTOR TO FIELD VERIFY DECKING CONDITIONS AND COORDINATE AREAS OF REMOVAL WITH A/E AND/OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW ROOFING SYSTEM. SEE STRUCTURAL DRAWINGS FOR REPLACEMENT DETAIL/SCOPE OF WORK. DAMAGED PLANK DECKING BEYOND THE 5% WILL BE HANDLED VIA UNIT COST.

**KEYED NOTES -- DEMOLITION ROOF PLAN:**

1. REMOVE EXISTING ROOF NUMBER SIGNAGE.
2. REMOVE EXISTING ICE/SNOW GUARDS, LOCATIONS SHOWN FOR INFORMATION ONLY.
3. EXISTING COPPER ROOFING SYSTEM TO REMAIN, PROTECT AS REQUIRED DURING DEMOLITION.
4. REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT, FLASHING, GUTTERS, DOWNSPOUTS AND ASSOCIATED ROOFING COMPONENTS DOWN TO EXISTING DECKING. EXISTING WOOD FASCIA BOARD, AND TRIM TO REMAIN UNLESS NOTED OTHERWISE, PROTECT AS REQUIRED DURING DEMOLITION AND NEW ROOF SYSTEM INSTALLATION.
5. REMOVE EXISTING ASPHALT ROOFING, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS. IN ITS ENTIRETY DOWN TO EXISTING DECKING. EXISTING WOOD FASCIA BOARD, TRIM AND SOFFITS TO REMAIN, PROTECT AS REQUIRED DURING DEMOLITION AND NEW ROOF SYSTEM INSTALLATION.
6. REMOVE/REPLACE DAMAGED AREAS OF PAINTED WOOD FASCIA BOARD, MATCH EXISTING PROFILE ALIGN FLUSH WITH EXISTING FASCIA TRIM, DIMENSIONS FOR REFERENCE ONLY, FIELD VERIFY LOCATIONS. EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT.
7. REMOVE/REPLACE DAMAGED AREA OF PAINTED WOOD GABLE TRIM TO MATCH EXISTING PROFILE ALIGN FLUSH WITH EXISTING FASCIA TRIM AND PAINT ENTIRE LENGTH TO MATCH EXISTING.

**KEYED NOTES -- ROOF PLAN:**

1. ROOF NUMBER SIGNAGE SECURE TO STANDING SEAM METAL ROOF PER MANUFACTURER SO AS NOT TO VOID WARRANTY. SIGNAGE SHALL BE 36"x36" SQUARE. THE BUILDING NUMBER AS INDICATED SHALL BE BLACK WITH A REFLECTIVE WHITE BACKGROUND. FONT SIZE SHALL FIT 36"x36" SIGN.
2. NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS OVER EXIST. WOOD DECKING ON WOOD STRUCTURAL SYSTEM. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXIST VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM EXISTING COPPER ROOFING SYSTEM TO REMAIN.
3. ALL EXISTING WOOD FASCIA BOARD AND REPLACEMENT BOARDS TO BE WRAPPED WITH SHEET METAL FLASHING TO MATCH NEW GUTTER AND ROOFING SYSTEM, EXISTING GABLE TRIM TO REMAIN AS EXISTING. REPLACE AREA OF GABLE TRIM TO MATCH EXISTING, ALIGN FLUSH AND PAINT FROM PEAK TO CORNER, MATCH EXISTING.
4. EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT, FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
5. LINE OF SELF-ADHERED WATER AND ICE MEMBRANE, INSTALL ALONG ROOF EDGE, RIDGE AND VALLEY PER DETAILS ON SHEETS A500, A501 AND A502.
6. NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS WITH R30 RIGID INSULATION OVER EXIST. ROOF DECK. PROVIDE REQUIRED FRAMING AND SECURE TO EXISTING ROOF DECK/STRUCTURE FOR STANDING SEAM METAL ROOF INSTALLATION TO ESTABLISH PROPER DRAINAGE FIELD VERIFY EXISTING CONDITIONS. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXIST VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



STATE OF MISSOURI  
CERTIFICATE OF AUTHORITY #2018019473

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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION  
DEPARTMENT OF  
CORRECTIONS

1012 WEST COLUMBIA ST.  
FARMINGTON, MO 63640

REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008

ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: -  
DATE: -  
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DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: A-100  
DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
BUILDING #16  
ROOF PLANS

SHEET NUMBER:

A101

4 OF 29 SHEETS  
02/07/2020



STATE OF MISSOURI  
CERTIFICATE OF AUTHORITY #2018019473

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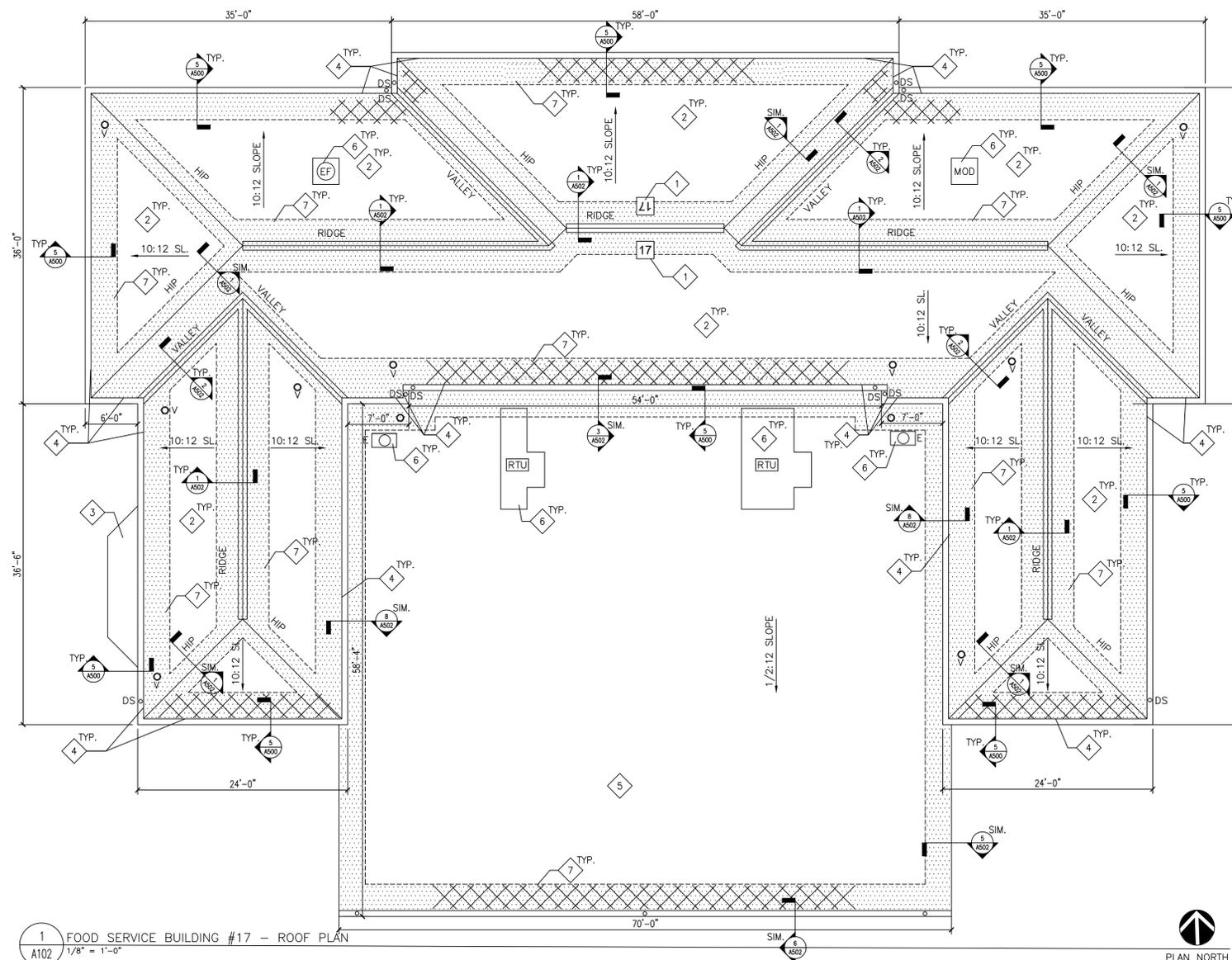
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REVISION: -  
DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: A-100  
DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
**BUILDING #17  
ROOF PLAN**

SHEET NUMBER:  
**A102**

5 OF 29 SHEETS  
02/07/2020



1 FOOD SERVICE BUILDING #17 - ROOF PLAN  
A102 1/8" = 1'-0"

**GENERAL NOTES -- HAZARDOUS MATERIALS:**

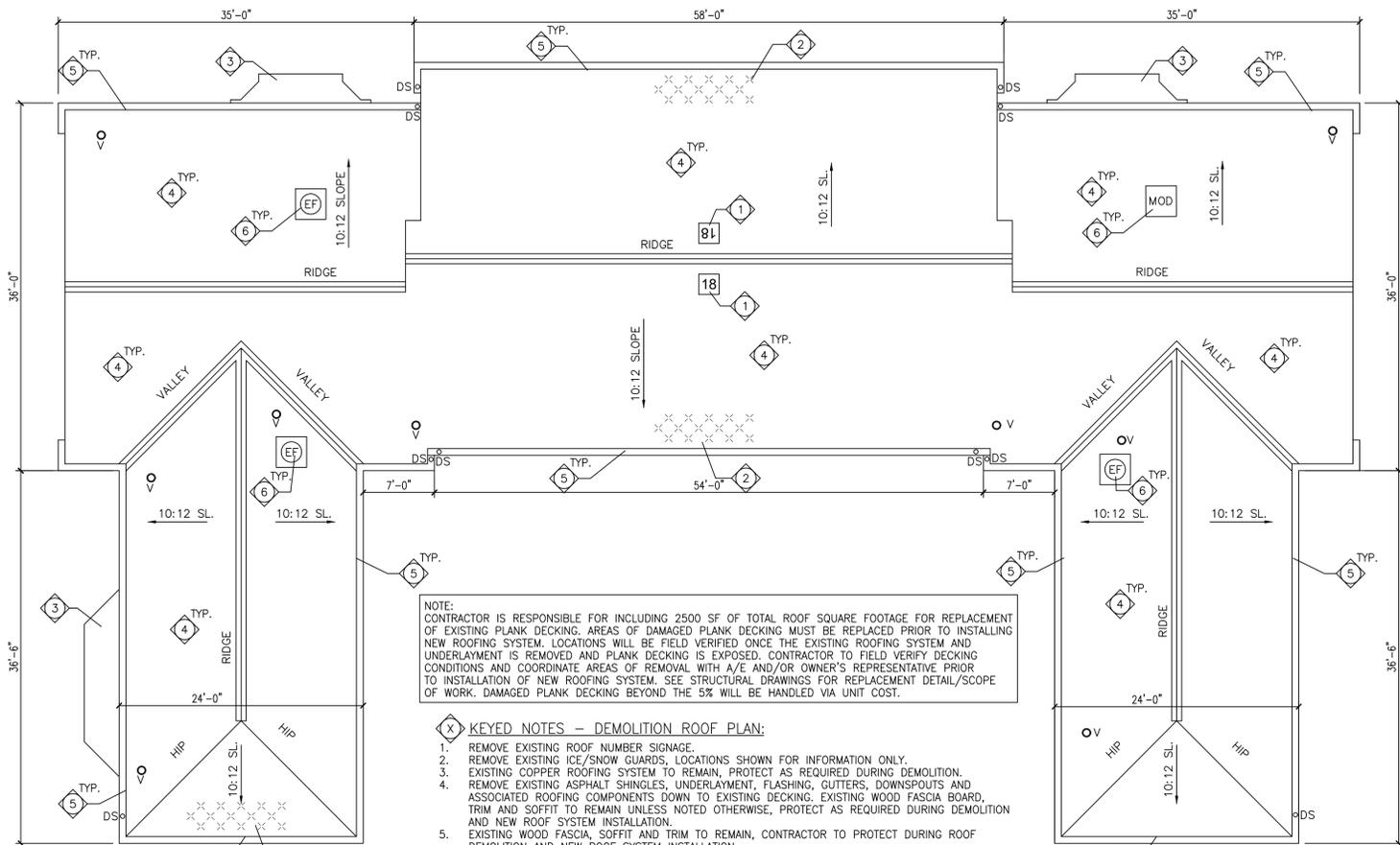
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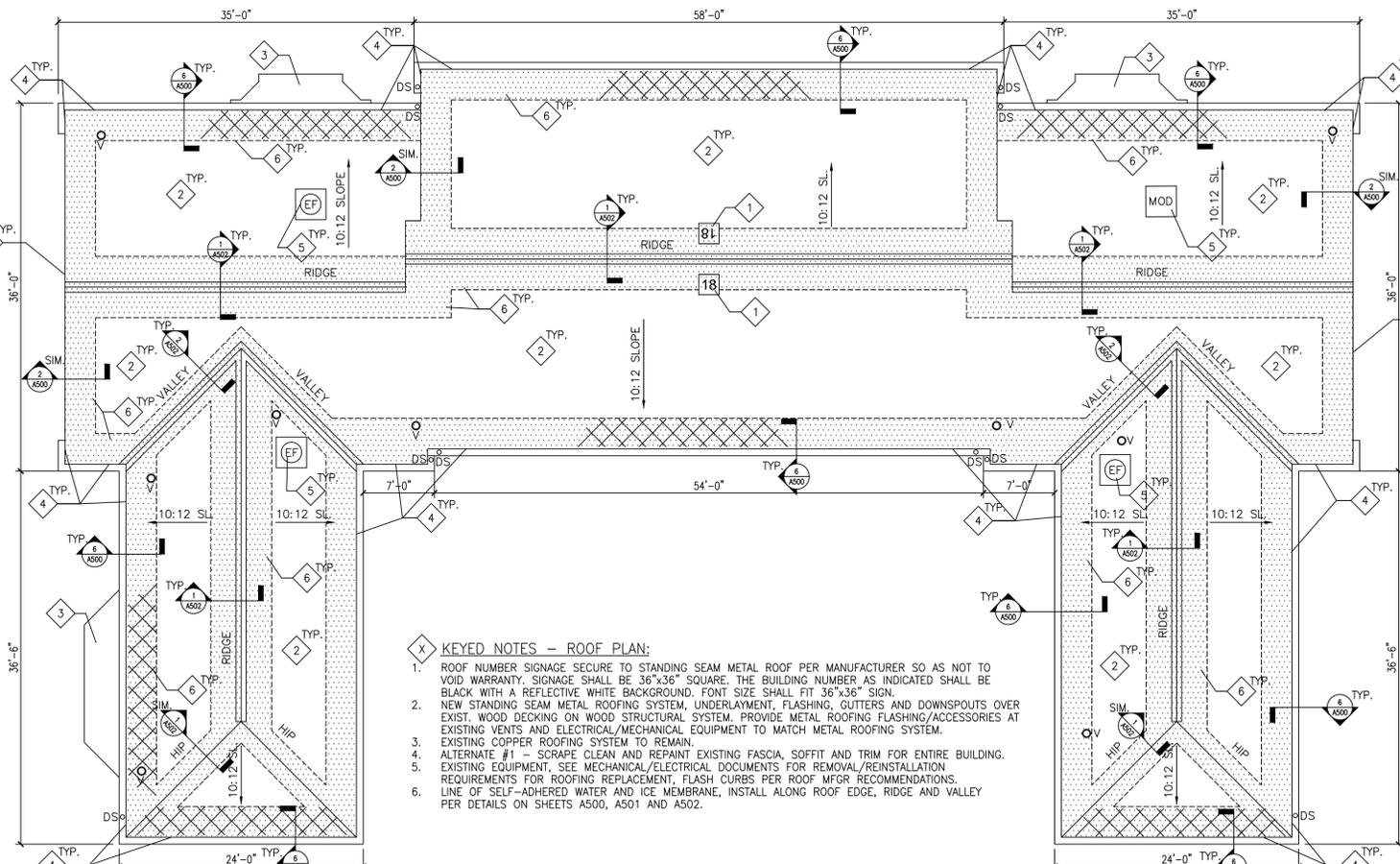
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- AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATER TIGHT ROOF INSTALLATION.
- PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS AND LOCATED DIRECTLY ABOVE EXIST. DOOR LOCATIONS AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
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**KEYED NOTES -- ROOF PLAN:**

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- EXISTING COPPER ROOFING SYSTEM TO REMAIN.
- ALL EXISTING WOOD FASCIA BOARD TO BE WRAPPED WITH SHEET METAL FLASHING TO MATCH NEW GUTTER AND ROOFING SYSTEM.
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- EXISTING EQUIPMENT. SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT. FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
- LINE OF SELF-ADHERED WATER AND ICE MEMBRANE, INSTALL ALONG ROOF EDGE, RIDGE AND VALLEY PER DETAILS ON SHEETS A500, A501 AND A502.



2 EDUCATION BUILDING #18 - DEMOLITION ROOF PLAN  
1/8" = 1'-0"



1 EDUCATION BUILDING #18 - ROOF PLAN  
1/8" = 1'-0"

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**GENERAL NOTES -- ROOF PLANS:**

- L. THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK.
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- S. ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK. DIMENSIONS SHOWN FOR INFORMATION ONLY AND MAY BE PLUS/MINUS WHAT IS INDICATED.
- T. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
- U. CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
- V. THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
- W. AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATER TIGHT ROOF INSTALLATION.
- X. PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS AND LOCATED DIRECTLY ABOVE EXIST. DOOR LOCATIONS AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
- Y. PROVIDE NEW DOWNSPOUTS AT ALL EXISTING DOWNSPOUT LOCATIONS, SIZE PER EXISTING.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



STATE OF MISSOURI  
CERTIFICATE OF AUTHORITY #2018019473

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DEPARTMENT OF  
CORRECTIONS**

**1012 WEST COLUMBIA ST.  
FARMINGTON, MO 63640**

REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: -  
DATE: -  
REVISION: -  
DATE: -  
REVISION: -  
DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

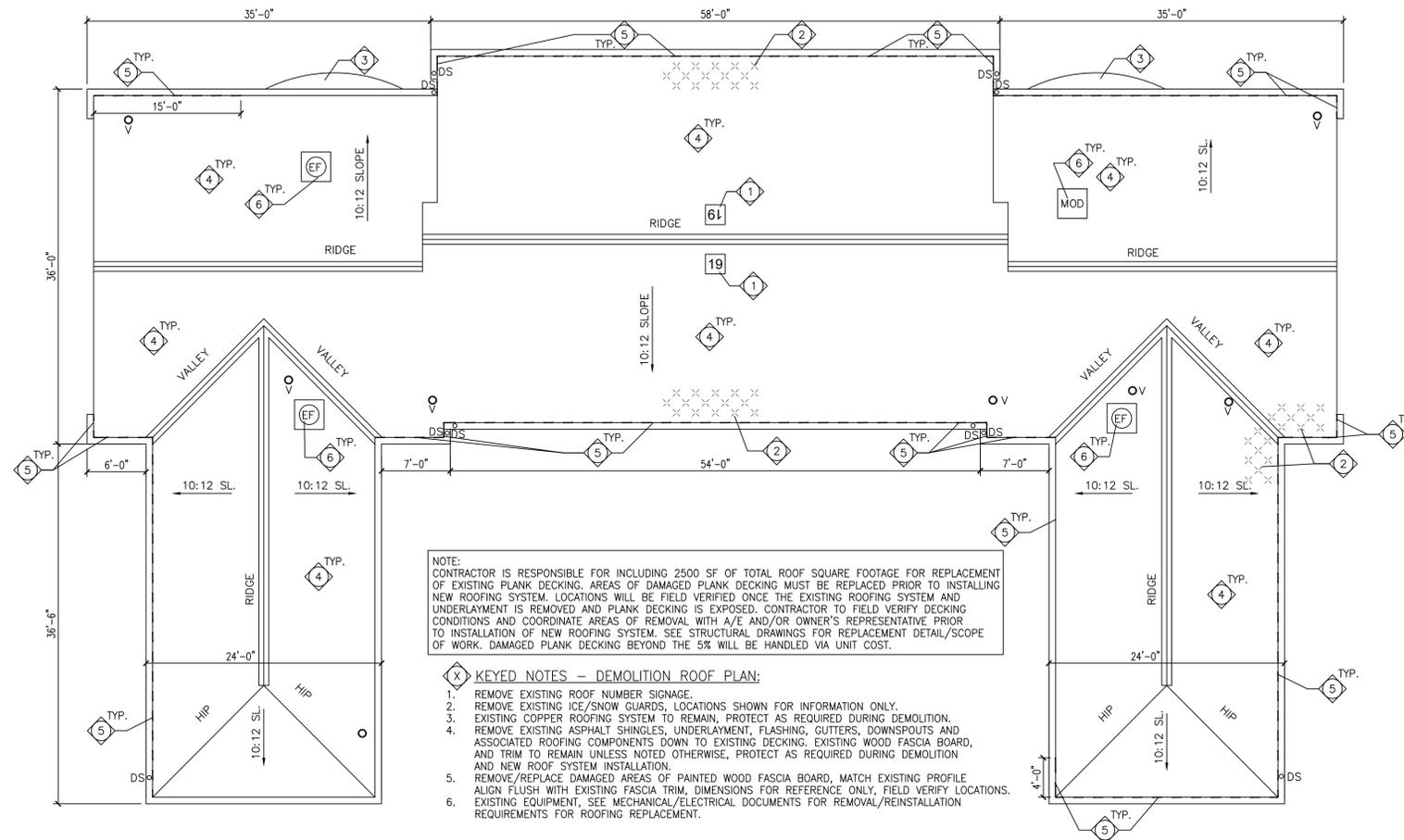
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CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
**BUILDING #18  
ROOF PLANS**

SHEET NUMBER:

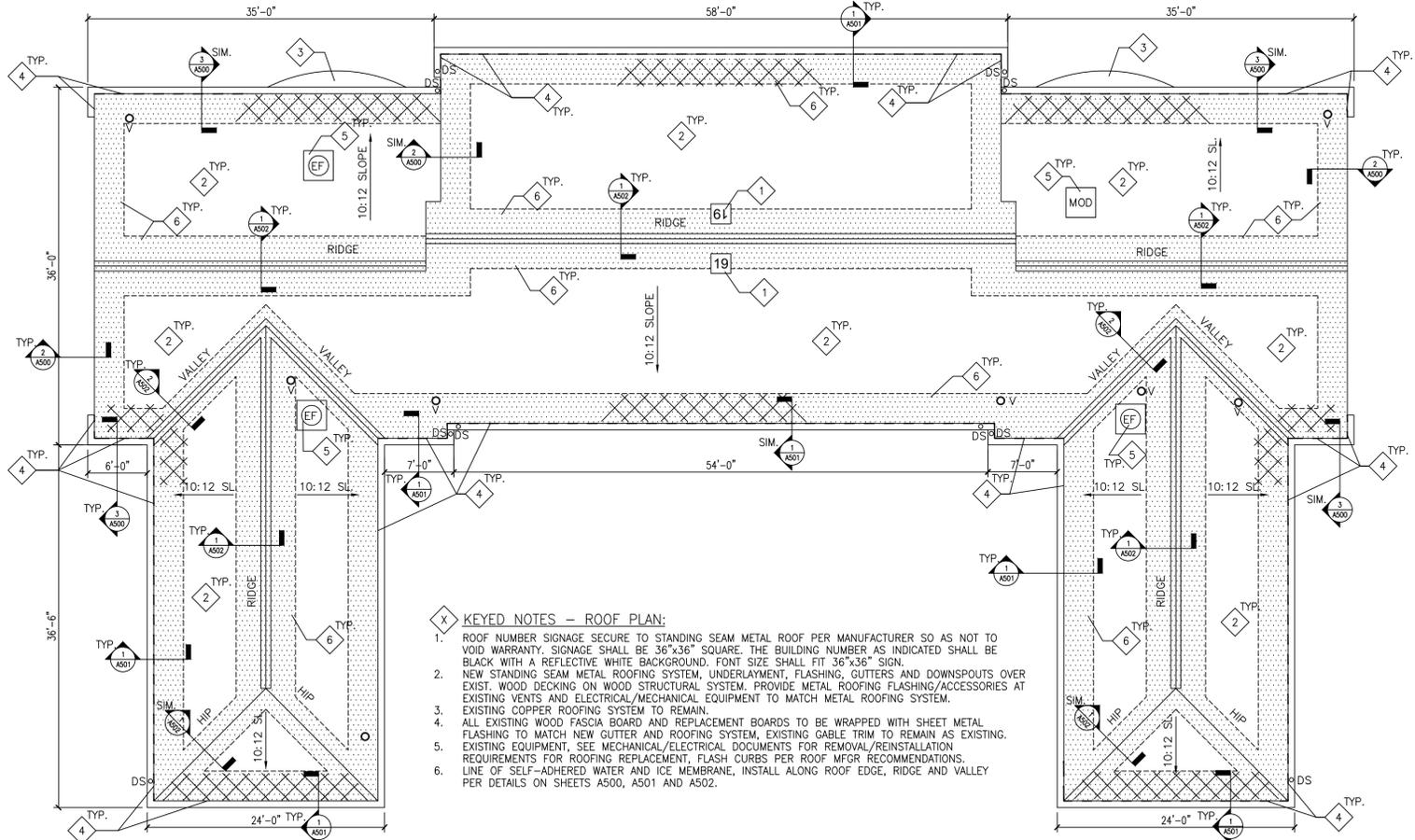
**A103**

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02/07/2020



2 LIBRARY BUILDING #19 - DEMOLITION ROOF PLAN  
1/8" = 1'-0"

PLAN NORTH



1 LIBRARY BUILDING #19 - ROOF PLAN  
1/8" = 1'-0"

PLAN NORTH

**GENERAL NOTES - HAZARDOUS MATERIALS:**

- LEAD-BASED PAINT WAS IDENTIFIED ON NUMEROUS SUBSTRATES ASSOCIATED WITH THE ROOFING REPLACEMENT PROJECT. THE INSPECTION RESULTS ARE FOUND IN THE REPORT TITLED "LIMITED ASBESTOS AND LEAD SURVEY".
- THE PAINTING CONTRACTOR'S EMPLOYEES SHALL HAVE HAD THE EPA LEAD RENOVATION, REPAIR AND PAINTING (RRP) CERTIFIED RENOVATOR COURSE. EPA'S RRP RULE REQUIRES RENOVATION, REPAIR AND PAINTING FIRMS WORKING ON PRE-1978 BUILDINGS TO ASSIGN TO EACH JOB A CERTIFIED RENOVATOR WHO IS TRAINED IN LEAD-SAFE WORK PRACTICES. THE TRAINING MUST BE TAUGHT BY AN EPA OR STATE ACCREDITED TRAINING PROVIDER.
- PAINTING CONTRACTOR MUST BE FAMILIAR WITH EPA DOCUMENT TITLED "SMALL ENTITY COMPLIANCE GUIDE TO RENOVATE RIGHT; EPA'S LEAD-BASED PAINT RENOVATION, RENOVATION, REPAIR AND PAINTING PROGRAM" (REVISED SEPTEMBER 2011 VERSION).
- THE PAINTING CONTRACTOR MUST USE LEAD-SAFE WORK PRACTICES WHEN CONDUCTING PAINTING OPERATIONS ON BUILDINGS 17, 18, 31, 32, AND 33.
- THE PAINTING CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD 29 CFR 1926.62, LEAD IN CONSTRUCTION, INCLUDING AIR SAMPLING OF REPRESENTATIVE TASKS TO DETERMINE RESPIRATOR REQUIREMENTS IF WARRANTED.
- ALL PAINT CHIPS AND GENERATED WASTE FROM BUILDINGS 17, 18, 31, 32, AND 33 SHALL BE TESTED BY THE PAINTING CONTRACTOR USING TOXIC CHARACTERISTIC LEACHATE PROCESS (TCLP) ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
- TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN OTHER AREAS OF THE PROJECT. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THE XRF THRESHOLD VALUE OF 1.0 MG/CM2 FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED.
- THE LOCATIONS OF WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
- AT THE DISCRETION OF THE CORRECTIONAL CENTER, ADDITIONAL AIR SAMPLING MAY BE CONDUCTED DURING PAINTING OPERATIONS TO ENSURE LEAD DUST IS NOT MIGRATING AWAY FROM THE WORK SITE.
- ASBESTOS WINDOW GLAZING WAS IDENTIFIED FOR BUILDING 17. AVOID CONTACT WITH THIS ASBESTOS MATERIAL. DO NOT SCRAPE, ABRADE OR OTHERWISE IMPACT THE ASBESTOS.

**GENERAL NOTES - ROOF PLANS:**

- THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK.
- THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
- INFORMATION IS TAKEN FROM OWNER PROVIDED DOCUMENTS AND SITE INVESTIGATION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
- PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
- PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR UNLESS INDICATED OTHERWISE.
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- AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATER TIGHT ROOF INSTALLATION.
- PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS AND LOCATED DIRECTLY ABOVE EXIST. DOOR LOCATIONS AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
- PROVIDE NEW DOWNSPOUTS AT ALL EXISTING DOWNSPOUT LOCATIONS, SIZE PER EXISTING.

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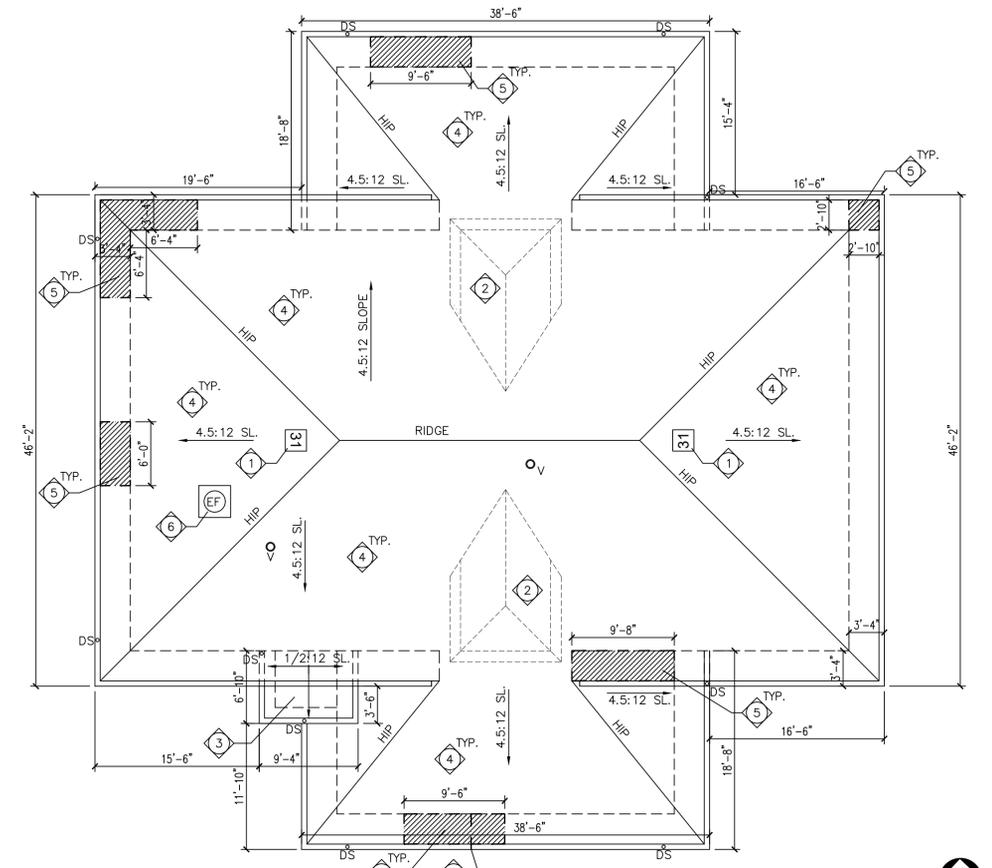
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CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
BUILDING #19  
ROOF PLANS

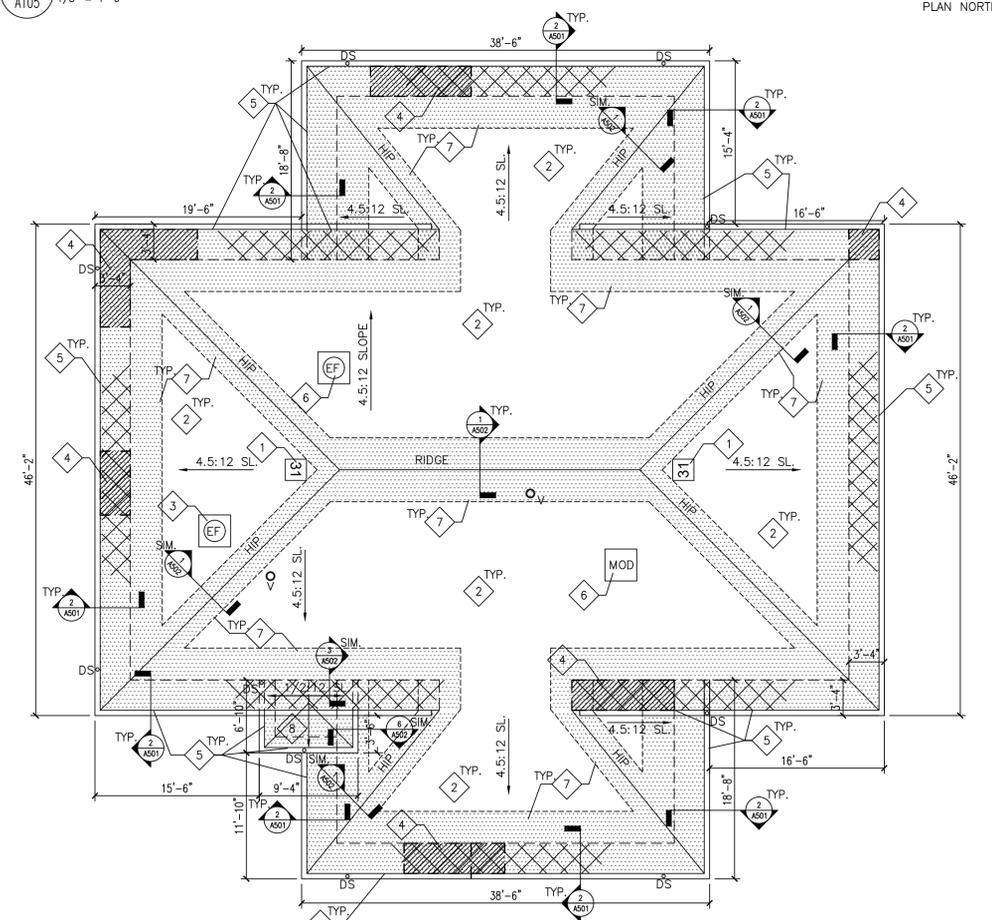
SHEET NUMBER:

A104

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02/07/2020



2 BOOT CAMP BUILDING #31 - DEMOLITION ROOF PLAN  
A105 1/8" = 1'-0"



1 BOOT CAMP BUILDING #31 - ROOF PLAN  
A105 1/8" = 1'-0"

NOTE: AT THIS BUILDING THE EXISTING EXHAUST FAN INSTALLED IN THE EXISTING ATTIC SCUTTLE LOCATION IS TO BE REMOVED AND REPLACED WITH A SOLID SCUTTLE PANEL, SEE ME DRAWINGS. FIELD VERIFY EXISTING SCUTTLE DIMENSIONS FOR PANEL INSTALLATION.

- GENERAL NOTES -- HAZARDOUS MATERIALS:**
- LEAD-BASED PAINT WAS IDENTIFIED ON NUMEROUS SUBSTRATES ASSOCIATED WITH THE ROOFING REPLACEMENT PROJECT. THE INSPECTION RESULTS ARE FOUND IN THE REPORT TITLED "LIMITED ASBESTOS AND LEAD SURVEY".
  - THE PAINTING CONTRACTOR'S EMPLOYEES SHALL HAVE HAD THE EPA LEAD RENOVATION, REPAIR AND PAINTING (RRP) CERTIFIED RENOVATOR COURSE. EPA'S RRP RULE REQUIRES RENOVATION, REPAIR AND PAINTING FIRMS WORKING ON PRE-1978 BUILDINGS TO ASSIGN TO EACH JOB A CERTIFIED RENOVATOR WHO IS TRAINED IN LEAD-SAFE WORK PRACTICES. THE TRAINING MUST BE TAUGHT BY AN EPA OR STATE ACCREDITED TRAINING PROVIDER.
  - PAINTING CONTRACTOR MUST BE FAMILIAR WITH EPA DOCUMENT TITLED "SMALL ENTITY COMPLIANCE GUIDE TO RENOVATE RIGHT; EPA'S LEAD-BASED PAINT RENOVATION, RENOVATION, REPAIR AND PAINTING PROGRAM" (REVISED SEPTEMBER 2011 VERSION).
  - THE PAINTING CONTRACTOR MUST USE LEAD-SAFE WORK PRACTICES WHEN CONDUCTING PAINTING OPERATIONS ON BUILDINGS 17, 18, 31, 32, AND 33.
  - THE PAINTING CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD 29 CFR 1926.62. LEAD IN CONSTRUCTION, INCLUDING AIR SAMPLING OF REPRESENTATIVE TASKS TO DETERMINE RESPIRATOR REQUIREMENTS IF WARRANTED.
  - ALL PAINT CHIPS AND GENERATED WASTE FROM BUILDINGS 17, 18, 31, 32, AND 33 SHALL BE TESTED BY THE PAINTING CONTRACTOR USING TOXIC CHARACTERISTIC LEACHATE PROCESS (TCLP) ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
  - TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN OTHER AREAS OF THE PROJECT. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THE XRF THRESHOLD VALUE OF 1.0 MG/CM2 FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED.
  - THE LOCATIONS OF WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
  - AT THE DISCRETION OF THE CORRECTIONAL CENTER, ADDITIONAL AIR SAMPLING MAY BE CONDUCTED DURING PAINTING OPERATIONS TO ENSURE LEAD DUST IS NOT MIGRATING AWAY FROM THE WORK SITE.
  - ASBESTOS WINDOW GLAZING WAS IDENTIFIED FOR BUILDING 17. AVOID CONTACT WITH THIS ASBESTOS MATERIAL. DO NOT SCRAPE, ABRADE OR OTHERWISE IMPACT THE ASBESTOS.

- GENERAL NOTES -- ROOF PLANS:**
- THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK.
  - THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
  - INFORMATION IS TAKEN FROM OWNER PROVIDED DOCUMENTS AND SITE INVESTIGATION.
  - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
  - PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
  - PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR UNLESS INDICATED OTHERWISE.
  - ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK. DIMENSIONS SHOWN FOR INFORMATION ONLY AND MAY BE PLUS/MINUS WHAT IS INDICATED.
  - ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
  - CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
  - THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
  - WHERE DAMAGED AREAS OF WOOD TRIM, SOFFIT AND FASCIA ARE REMOVED/REPLACED, PAINT ENTIRE LENGTH FROM CORNER TO CORNER TO MATCH EXISTING COLOR AND FINISH. SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.
  - ANY WOOD TRIM, REMOVED FROM BUILDINGS 31, 32, AND 33 SHOULD BE RETURNED TO THE FACILITY.
  - AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATERTIGHT ROOF INSTALLATION.
  - PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS AND LOCATED DIRECTLY ABOVE EXIST. DOOR LOCATION AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
  - PROVIDE NEW DOWNSPOUTS AT ALL EXISTING DOWNSPOUT LOCATIONS, SIZE PER EXISTING.

- KEYED NOTES -- DEMOLITION ROOF PLAN:**
- REMOVE EXISTING ROOF NUMBER SIGNAGE.
  - REMOVE EXISTING WOOD/ASPHALT SHINGLE DORMER AND ASSOCIATED LOUVER IN ITS ENTIRETY, SEE STRUCTURAL DOCUMENTS FOR INFILL DETAILS PRIOR TO NEW ROOF SYSTEM INSTALLATION.
  - REMOVE EXISTING RUBBER MEMBRANE ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS IN ITS ENTIRETY DOWN TO EXISTING DECKING.
  - REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT, FLASHING, GUTTERS, DOWNSPOUTS AND ASSOCIATED ROOFING COMPONENTS DOWN TO EXISTING DECKING. EXISTING WOOD FASCIA BOARD, TRIM AND SOFFITS TO REMAIN UNLESS NOTED OTHERWISE, PROTECT AS REQUIRED DURING DEMOLITION AND NEW ROOF SYSTEM INSTALLATION.
  - REMOVE/REPLACE DAMAGED AREAS OF PAINTED WOOD FASCIA BOARD AND WOOD PLANK SOFFIT. SEE STRUCTURAL FOR SOFFIT DETAILS. ALIGN FASCIA AND SOFFIT FLUSH WITH EXISTING FASCIA TRIM. DIMENSIONS FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS. EXISTING EXTERIOR WOOD TRIM TO REMAIN. PROTECT AS REQUIRED DURING SOFFIT REPLACEMENT. SOFFITS TO BE REPLACED ENTIRELY BETWEEN EXISTING WOOD SUPPORTS, PAINT ENTIRE LENGTH TO MATCH EXISTING.
  - EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT.
  - REMOVE/REPLACE DAMAGED WOOD SOFFIT SUPPORT BEAM. SEE STRUCTURAL FOR DETAILS. PAINT TO MATCH EXISTING, EXTERIOR WOOD TRIM TO REMAIN. PROTECT AS REQUIRED, PATCH TO MATCH EXISTING.

NOTE: CONTRACTOR IS RESPONSIBLE FOR INCLUDING 2500 SF OF TOTAL ROOF SQUARE FOOTAGE FOR REPLACEMENT OF EXISTING PLANK DECKING. AREAS OF DAMAGED PLANK DECKING MUST BE REPLACED PRIOR TO INSTALLING NEW ROOFING SYSTEM. LOCATIONS WILL BE FIELD VERIFIED ONCE THE EXISTING ROOFING SYSTEM AND UNDERLAYMENT IS REMOVED AND PLANK DECKING IS EXPOSED. CONTRACTOR TO FIELD VERIFY DECKING CONDITIONS AND COORDINATE AREAS OF REMOVAL WITH A/E AND/OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW ROOFING SYSTEM. SEE STRUCTURAL DRAWINGS FOR REPLACEMENT DETAIL/SCOPE OF WORK. DAMAGED PLANK DECKING BEYOND THE 5% WILL BE HANDLED VIA UNIT COST.

- KEYED NOTES -- ROOF PLAN:**
- ROOF NUMBER SIGNAGE SECURE TO STANDING SEAM METAL ROOF PER MANUFACTURER SO AS NOT TO VOID WARRANTY. SIGNAGE SHALL BE 36"x36" SQUARE. THE BUILDING NUMBER AS INDICATED SHALL BE BLACK WITH A REFLECTIVE WHITE BACKGROUND. FONT SIZE SHALL FIT 36"x36" SIGN.
  - NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS OVER EXIST. WOOD DECKING ON WOOD STRUCTURAL SYSTEM. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXISTING VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM.
  - EXISTING EQUIPMENT. SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT, FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
  - AREAS OF WOOD FASCIA AND SOFFIT REPLACEMENT, PAINT TO MATCH EXISTING THE ENTIRE LENGTH OF EXISTING SOFFIT AND FASCIA FROM BUILDING CORNER TO BUILDING CORNER, SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.
  - ALTERNATE #2 - SCRAPE CLEAN AND REPAINT EXISTING FASCIA, SOFFIT, SOFFIT SUPPORT STRUCTURE AND TRIM AT TOP OF EXTERIOR WALL FOR ENTIRE BUILDING, AT AREAS OF SOFFIT/FASCIA REPLACEMENT INCLUDE PAINTING THE EXISTING SOFFIT SUPPORT AND EXTERIOR WALL TRIM AS PART OF THE ALTERNATE SCOPE OF WORK.
  - NEW MECHANICAL/ELECTRICAL EQUIPMENT. SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR INSTALLATION REQUIREMENTS. FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
  - LINE OF SELF-ADHERED WATER AND ICE MEMBRANE, INSTALL ALONG ROOF EDGE, RIDGE AND VALLEY PER DETAILS ON SHEETS A500, A501 AND A502.
  - NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS WITH R30 RIGID INSULATION OVER EXIST. ROOF DECK. PROVIDE REQUIRED FRAMING AND SECURE TO EXISTING ROOF DECK/STRUCTURE FOR STANDING SEAM METAL ROOF INSTALLATION TO ESTABLISH PROPER DRAINAGE FIELD VERIFY EXISTING CONDITIONS. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXIST VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM

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**DEPARTMENT OF  
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**1012 WEST COLUMBIA ST.  
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**REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER**

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: -  
DATE: -  
REVISION: -  
DATE: -  
REVISION: -  
DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: A-100  
DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
**BUILDING #31  
ROOF PLANS**

SHEET NUMBER:

**A105**

8 OF 29 SHEETS  
02/07/2020



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PROJECT # C1922-01  
SITE # 7008  
ASSET # 932700809, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

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DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: A-100  
DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
BUILDING #32  
ROOF PLANS

SHEET NUMBER:

A106

9 OF 29 SHEETS  
02/07/2020

GENERAL NOTES -- HAZARDOUS MATERIALS:

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- THE PAINTING CONTRACTOR MUST USE LEAD-SAFE WORK PRACTICES WHEN CONDUCTING PAINTING OPERATIONS ON BUILDINGS 17, 18, 31, 32, AND 33.
- THE PAINTING CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD 29 CFR 1926.62, LEAD IN CONSTRUCTION, INCLUDING AIR SAMPLING OF REPRESENTATIVE TASKS TO DETERMINE RESPIRATOR REQUIREMENTS IF WARRANTED.
- ALL PAINT CHIPS AND GENERATED WASTE FROM BUILDINGS 17, 18, 31, 32, AND 33 SHALL BE TESTED BY THE PAINTING CONTRACTOR USING TOXIC CHARACTERISTIC LEACHATE PROCESS (TCLP) ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
- TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN OTHER AREAS OF THE PROJECT. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THE XRF THRESHOLD VALUE OF 1.0 MG/CM2 FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK AREA EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED. THE LOCATIONS OF WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
- AT THE DISCRETION OF THE CORRECTIONAL CENTER, ADDITIONAL AIR SAMPLING MAY BE CONDUCTED DURING PAINTING OPERATIONS TO ENSURE LEAD DUST IS NOT MIGRATING AWAY FROM THE WORK SITE.
- ASBESTOS WINDOW GLAZING WAS IDENTIFIED FOR BUILDING 17. AVOID CONTACT WITH THIS ASBESTOS MATERIAL. DO NOT SCRAPE, ABRADE OR OTHERWISE IMPACT THE ASBESTOS.

GENERAL NOTES -- ROOF PLANS:

- THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK.
- THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
- INFORMATION IS TAKEN FROM OWNER PROVIDED DOCUMENTS AND SITE INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
- PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
- PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR UNLESS INDICATED OTHERWISE.
- ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK. DIMENSIONS SHOWN FOR INFORMATION ONLY AND MAY PLUS/MINUS WHAT IS INDICATED.
- ALL MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
- CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
- THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
- WHERE DAMAGED AREAS OF WOOD TRIM, SOFFIT AND FASCIA ARE REMOVED/REPLACED, PAINT ENTIRE LENGTH FROM CORNER TO CORNER TO MATCH EXISTING COLOR AND FINISH. SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.
- ANY WOOD TRIM, REMOVED FROM BUILDINGS 31, 32, AND 33 SHOULD BE RETURNED TO THE FACILITY.
- AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATER TIGHT ROOF INSTALLATION.
- PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS AND LOCATED DIRECTLY ABOVE EXIST. DOOR LOCATIONS AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
- PROVIDE NEW DOWNSPOUTS AT ALL EXISTING DOWNSPOUT LOCATIONS, SIZE PER EXISTING.

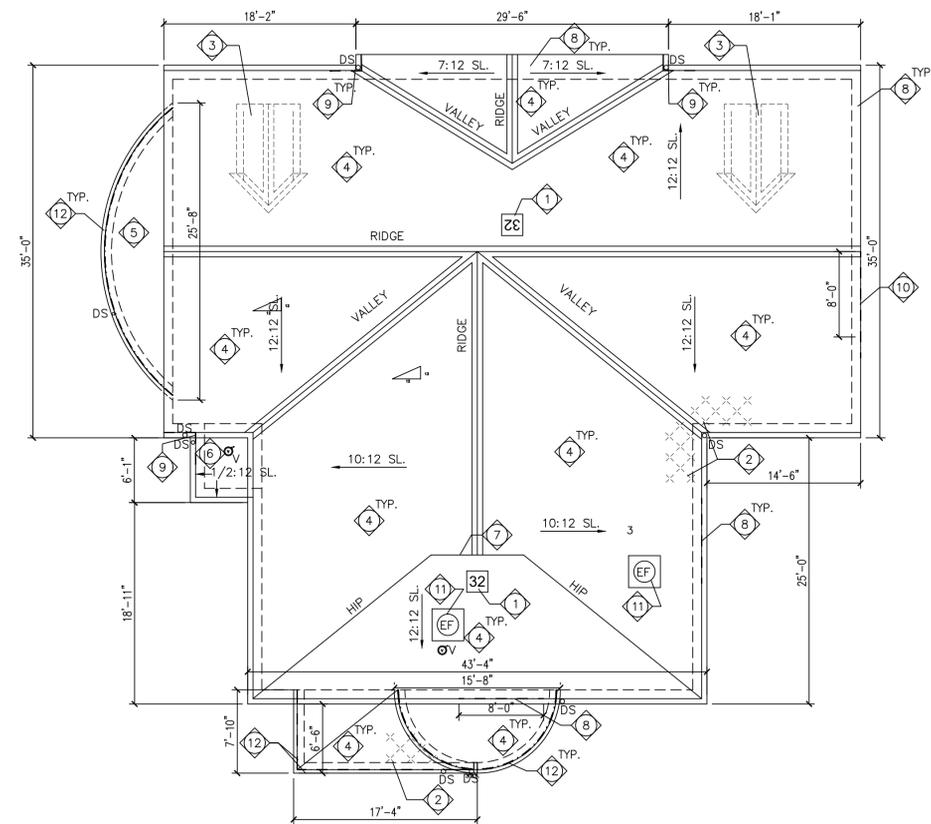
KEYED NOTES -- DEMOLITION ROOF PLAN:

- REMOVE EXISTING ROOF NUMBER SIGNAGE.
- REMOVE EXISTING ICE/SNOW GUARDS, LOCATIONS SHOWN FOR INFORMATION ONLY.
- REMOVE EXISTING WOOD/ASPHALT SHINGLE DORMER AND ASSOCIATED LOUVER IN ITS ENTIRETY. SEE STRUCTURAL DOCUMENTS FOR INFILL DETAILS PRIOR TO NEW ROOF SYSTEM INSTALLATION.
- REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT, FLASHING, CUTTERS, DOWNSPOUTS AND ASSOCIATED ROOFING COMPONENTS DOWN TO EXISTING DECKING. REMOVE/REPLACE EXISTING WOOD FASCIA BOARD, EXISTING WOOD TRIM AND SOFFIT TO REMAIN UNLESS NOTED OTHERWISE. PROTECT AS REQUIRED DURING DEMOLITION, FASCIA REPLACEMENT AND NEW ROOF SYSTEM INSTALLATION.
- REMOVE EXISTING RUBBER MEMBRANE ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS IN ITS ENTIRETY DOWN TO EXISTING DECKING.
- REMOVE EXISTING COPPER ROOFING SYSTEM IN ITS ENTIRETY DOWN TO EXISTING ROOF DECK.
- REMOVE EXISTING GABLE LOUVER.
- REMOVE/REPLACE DAMAGED AREAS OF PAINTED WOOD TRIM AND SOFFIT, MATCH EXISTING SIZE. MATCHING EXISTING TRIM PROFILE IS NOT REQUIRED BUT ALIGN FLUSH WITH EXISTING WOOD TRIM. DIMENSIONS FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS AND PAINT ENTIRE LENGTH TO MATCH EXISTING.
- REMOVE/REPLACE DAMAGED AREAS OF PAINTED WOOD TRIM AND SOFFIT, AT DOWNSPOUT LOCATIONS. MATCHING EXISTING TRIM PROFILE IS NOT REQUIRED BUT ALIGN WOOD FLUSH WITH EXISTING WOOD TRIM. PAINT TO MATCH EXISTING - SEE PHOTO #1 THIS SHEET.
- REMOVE/REPLACE DAMAGED WOOD GABLE TRIM, ALIGN FLUSH WITH EXISTING, PAINT ENTIRE LENGTH TO MATCH EXISTING. DIMENSIONS FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS PAINT TO MATCH EXISTING.
- EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT.
- REMOVE DAMAGED WOOD TRIM IN ITS ENTIRETY. REPLACE WOOD TRIM/BLOCKING AS REQUIRED FOR INSTALLATION OF NEW SHEET METAL TRIM/FLASHING PER INDICATED DETAILS ON 1/A106.

NOTE:  
CONTRACTOR IS RESPONSIBLE FOR INCLUDING 2500 SF OF TOTAL ROOF SQUARE FOOTAGE FOR REPLACEMENT OF EXISTING PLANK DECKING. AREAS OF DAMAGED PLANK DECKING MUST BE REPLACED PRIOR TO INSTALLING NEW ROOFING SYSTEM. LOCATIONS WILL BE FIELD VERIFIED ONCE THE EXISTING ROOFING SYSTEM AND UNDERLAYMENT IS REMOVED AND PLANK DECKING IS EXPOSED. CONTRACTOR TO FIELD VERIFY DECKING CONDITIONS AND COORDINATE AREAS OF REMOVAL WITH A/E AND/OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW ROOFING SYSTEM. SEE STRUCTURAL DRAWINGS FOR REPLACEMENT DETAIL/SCOPE OF WORK. DAMAGED PLANK DECKING BEYOND THE 5% WILL BE HANDLED VIA UNIT COST.

KEYED NOTES -- ROOF PLAN:

- ROOF NUMBER SIGNAGE SECURE TO STANDING SEAM METAL ROOF PER MANUFACTURER SO AS NOT TO VOID WARRANTY. SIGNAGE SHALL BE 36"x36" SQUARE. THE BUILDING NUMBER AS INDICATED SHALL BE BLACK WITH A REFLECTIVE WHITE BACKGROUND. FONT SIZE SHALL FIT 36"x36" SIGN.
- NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS OVER EXIST. WOOD DECKING ON WOOD STRUCTURAL SYSTEM. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXISTING VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM. PROVIDE NEW WOOD FASCIA BOARDS, PAINT TO MATCH EXISTING.
- INSTALL NEW SINGLE PLY TPO ROOFING SYSTEM, R30 RIGID INSULATION, FLASHING, GUTTER AND DOWNSPOUT. FLASH PER ROOFING MANUFACTURER'S RECOMMENDATIONS.
- INSTALL NEW DECORATIVE METAL GABLE VENT, TRIM AND FLASHING TO MATCH NEW STANDING SEAM METAL ROOF SYSTEM. FIELD VERIFY SIZE.
- EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT. FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
- AREAS OF WOOD TRIM AND SOFFIT REPLACEMENT, PAINT TO MATCH EXISTING THE ENTIRE LENGTH OF EXISTING SOFFIT AND TRIM FROM BUILDING CORNER TO BUILDING CORNER, SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.
- SCRAPE CLEAN AND REPAINT EXISTING SOFFIT FOR ENTIRE BUILDING, EXISTING BUILDING TRIM IS NOT WITHIN THE SCOPE OF WORK.
- NEW MECHANICAL/ELECTRICAL EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR INSTALLATION REQUIREMENTS. FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
- LINE OF SELF-ADHERED WATER AND ICE MEMBRANE, INSTALL ALONG ROOF EDGE, RIDGE AND VALLEY PER DETAILS ON SHEETS A500, A501 AND A502.
- NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS WITH R30 RIGID INSULATION OVER EXIST. ROOF DECK. PROVIDE REQUIRED FRAMING AND SECURE TO EXISTING ROOF DECK STRUCTURE FOR STANDING SEAM METAL ROOF INSTALLATION TO ESTABLISH PROPER DRAINAGE FIELD VERIFY EXISTING CONDITIONS. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXIST VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM.
- REPLACE PORTION OF EXISTING WOOD RAKE TRIM, ALIGN FLUSH, PAINT TO MATCH EXISTING THE ENTIRE LENGTH FROM BUILDING CORNER TO PEAK, SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.



2 CHAPEL BUILDING #32 -- DEMOLITION ROOF PLAN  
1/8" = 1'-0"

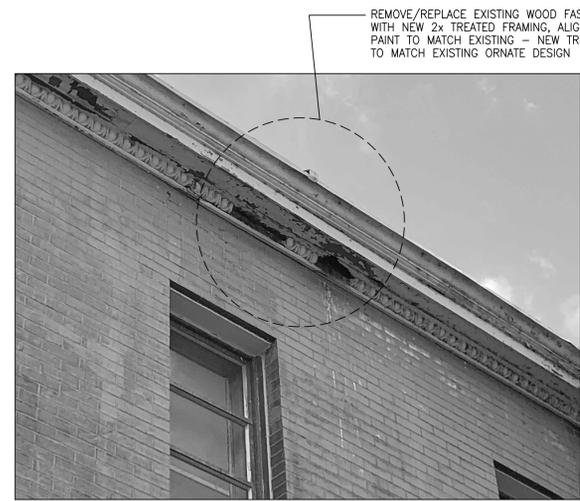


PHOTO #2 -- TYPICAL EXISTING TRIM REPAIR/REPLACEMENT  
NOT TO SCALE

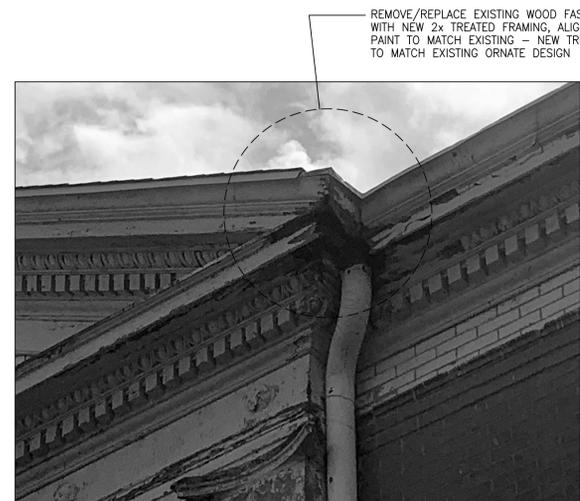
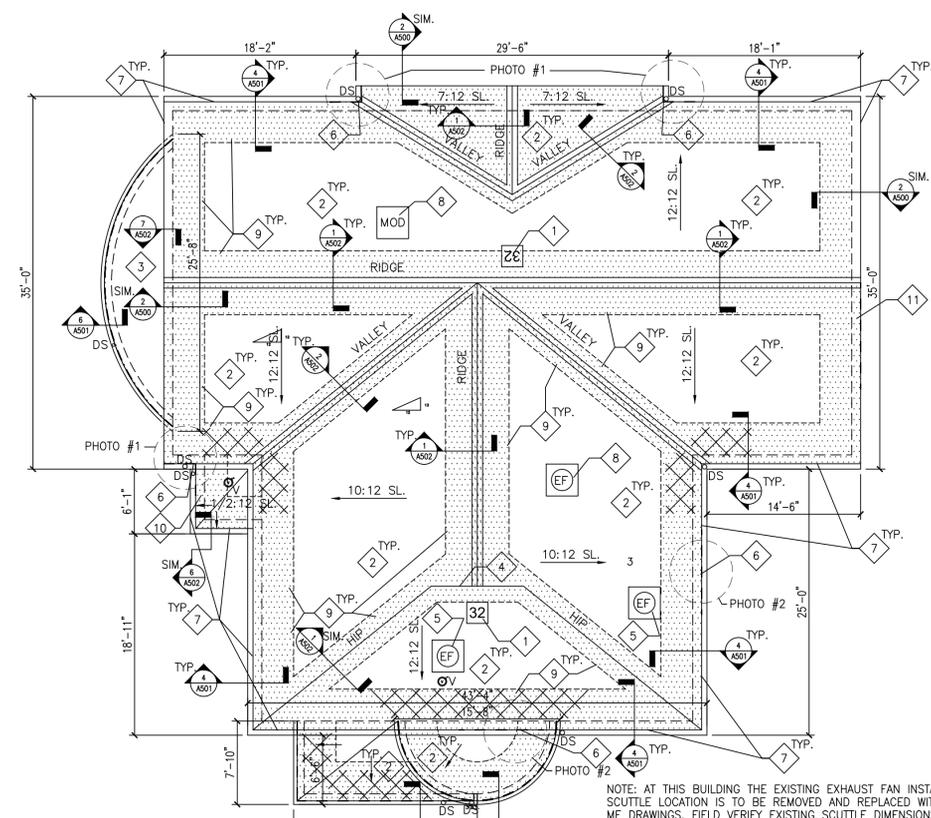
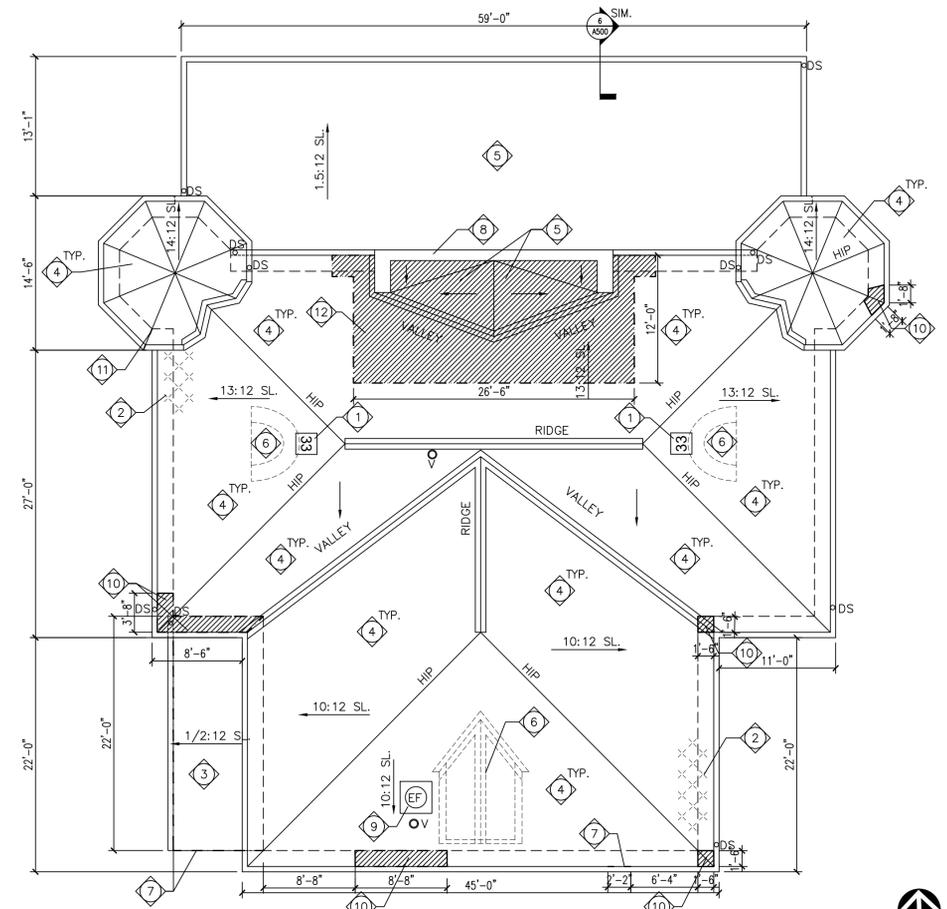


PHOTO #1 -- TYPICAL EXISTING CORNER FASCIA/TRIM/SOFFIT DAMAGE TO BE REPAIRED  
NOT TO SCALE

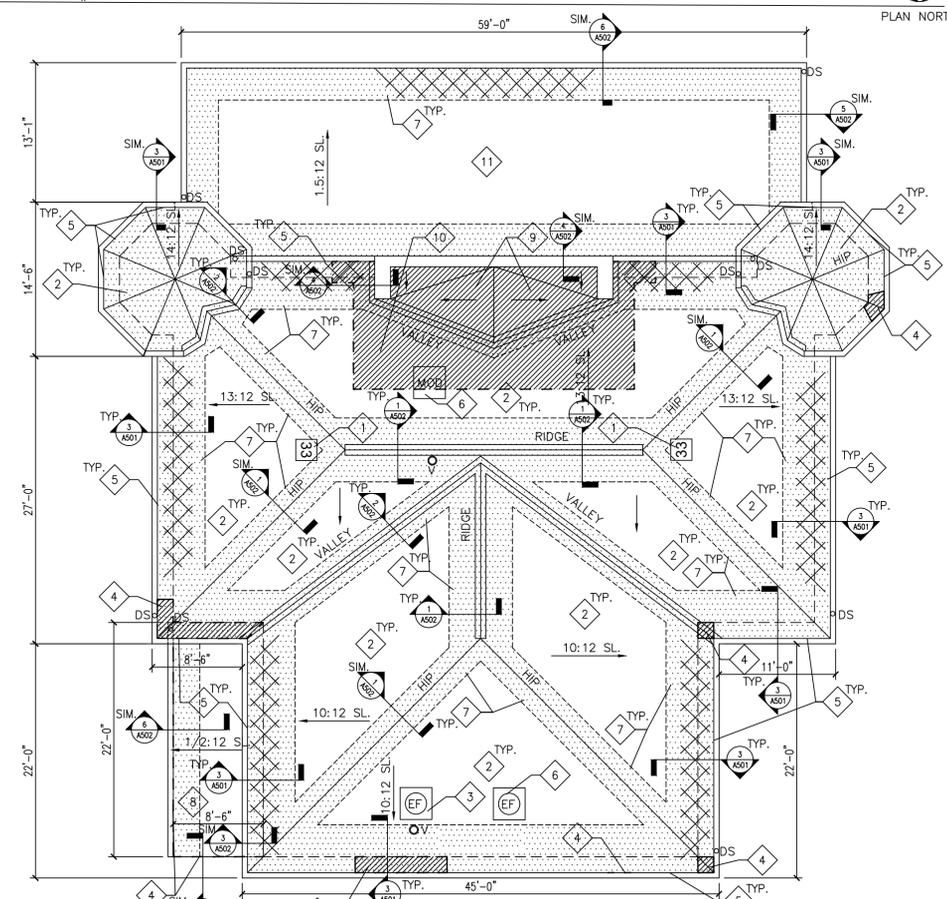


1 CHAPEL BUILDING #32 -- ROOF PLAN  
1/8" = 1'-0"

NOTE: AT THIS BUILDING THE EXISTING EXHAUST FAN INSTALLED IN THE EXISTING ATTIC SCUTTLE LOCATION IS TO BE REMOVED AND REPLACED WITH A SOLID SCUTTLE PANEL. SEE ME DRAWINGS. FIELD VERIFY EXISTING SCUTTLE DIMENSIONS FOR PANEL INSTALLATION.



2 WAREHOUSE BUILDING #33 - DEMOLITION ROOF PLAN  
1/8" = 1'-0"



1 WAREHOUSE BUILDING #33 - ROOF PLAN  
1/8" = 1'-0"

NOTE: AT THIS BUILDING THE EXISTING EXHAUST FAN INSTALLED IN THE EXISTING ATTIC SCUTTLE LOCATION IS TO BE REMOVED AND REPLACED WITH A SOLID SCUTTLE PANEL. SEE ME DRAWINGS. FIELD VERIFY EXISTING SCUTTLE DIMENSIONS FOR PANEL INSTALLATION.

- GENERAL NOTES -- HAZARDOUS MATERIALS:**
- LEAD-BASED PAINT WAS IDENTIFIED ON NUMEROUS SUBSTRATES ASSOCIATED WITH THE ROOFING REPLACEMENT PROJECT. THE INSPECTION RESULTS ARE FOUND IN THE REPORT TITLED "LIMITED ASBESTOS AND LEAD SURVEY".
  - THE PAINTING CONTRACTOR'S EMPLOYEES SHALL HAVE HAD THE EPA LEAD RENOVATION, REPAIR AND PAINTING (RRP) CERTIFIED RENOVATOR COURSE. EPA'S RRP RULE REQUIRES RENOVATION, REPAIR AND PAINTING FIRMS WORKING ON PRE-1978 BUILDINGS TO ASSIGN TO EACH JOB A CERTIFIED RENOVATOR WHO IS TRAINED IN LEAD-SAFE WORK PRACTICES. THE TRAINING MUST BE TAUGHT BY AN EPA OR STATE ACCREDITED TRAINING PROVIDER.
  - PAINTING CONTRACTOR MUST BE FAMILIAR WITH EPA DOCUMENT TITLED "SMALL ENTITY COMPLIANCE GUIDE TO RENOVATE RIGHT: EPA'S LEAD-BASED PAINT RENOVATION, RENOVATION, REPAIR AND PAINTING PROGRAM" (REVISED SEPTEMBER 2011 VERSION).
  - THE PAINTING CONTRACTOR MUST USE LEAD-SAFE WORK PRACTICES WHEN CONDUCTING PAINTING OPERATIONS ON BUILDINGS 17, 18, 31, 32, AND 33.
  - THE PAINTING CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD 29 CFR 1926.62. LEAD IN CONSTRUCTION, INCLUDING AIR SAMPLING OF REPRESENTATIVE TASKS TO DETERMINE RESPIRATOR REQUIREMENTS IF WARRANTED.
  - ALL PAINT CHIPS AND GENERATED WASTE FROM BUILDINGS 17, 18, 31, 32, AND 33 SHALL BE TESTED BY THE PAINTING CONTRACTOR USING TOXIC CHARACTERISTIC LEACHATE PROCESS (TCLP) ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
  - TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN OTHER AREAS OF THE PROJECT. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THE XRF THRESHOLD VALUE OF 1.0 MG/CM2 FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL LEAD EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED.
  - THE LOCATIONS OF WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE CORRECTIONAL CENTER AND/OR THE CORRECTIONAL CENTER'S REPRESENTATIVE.
  - AT THE DISCRETION OF THE CORRECTIONAL CENTER, ADDITIONAL AIR SAMPLING MAY BE CONDUCTED DURING PAINTING OPERATIONS TO ENSURE LEAD DUST IS NOT MIGRATING AWAY FROM THE WORK SITE.
  - ASBESTOS WINDOW GLAZING WAS IDENTIFIED FOR BUILDING 17. AVOID CONTACT WITH THIS ASBESTOS MATERIAL. DO NOT SCRAPE, ABRADE OR OTHERWISE IMPACT THE ASBESTOS.

- GENERAL NOTES -- ROOF PLANS:**
- THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK. THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
  - INFORMATION IS TAKEN FROM OWNER PROVIDED DOCUMENTS AND SITE INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
  - PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
  - PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR UNLESS INDICATED OTHERWISE.
  - ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK. DIMENSIONS SHOWN FOR INFORMATION ONLY AND MAY PLUS/MINUS WHAT IS INDICATED.
  - ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
  - CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
  - THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
  - WHERE DAMAGED AREAS OF WOOD TRIM, SOFFIT AND FASCIA ARE REMOVED/REPLACED, PAINT ENTIRE LENGTH FROM CORNER TO CORNER TO MATCH EXISTING COLOR AND FINISH. SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.
  - ANY WOOD TRIM, REMOVED FROM BUILDINGS 31, 32, AND 33 SHOULD BE RETURNED TO THE FACILITY.
  - AT MECHANICAL/ELECTRICAL ROOF EQUIPMENT AND VENTS, PROVIDE FLASHING PER ROOFING MFR. FOR WATER TIGHT ROOF INSTALLATION.
  - PROVIDE SNOW AND ICE GUARDS AT NEW STANDING SEAM METAL ROOFS AS INDICATED ON THE PLANS.
  - DOOR LOCATIONS AND 5'-0" ON EITHER SIDE OF DOOR OPENING.
  - PROVIDE NEW DOWNSPOUTS AT ALL EXISTING DOWNSPOUT LOCATIONS, SIZE PER EXISTING.

- KEYED NOTES -- DEMOLITION ROOF PLAN:**
- REMOVE EXISTING ROOF NUMBER SIGNAGE.
  - REMOVE EXISTING ICE/SNOW GUARDS, LOCATIONS SHOWN FOR INFORMATION ONLY.
  - REMOVE EXISTING RUBBER MEMBRANE ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS IN ITS ENTIRETY DOWN TO EXISTING DECKING.
  - REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT, FLASHING, GUTTERS, DOWNSPOUTS AND ASSOCIATED ROOFING COMPONENTS DOWN TO EXISTING DECKING. EXISTING WOOD FASCIA BOARD TRIM AND SOFFITS TO REMAIN UNLESS NOTED OTHERWISE, PROTECT AS REQUIRED DURING DEMOLITION AND NEW ROOF SYSTEM INSTALLATION.
  - REMOVE EXISTING METAL ROOFING SYSTEM, FLASHING, GUTTERS AND DOWNSPOUTS AS REQUIRED FOR THE INSTALLATION OF A NEW STANDING SEAM METAL ROOFING SYSTEM. EXISTING BUILDING STRUCTURE, DECK AND SUPPORTS TO REMAIN. EXISTING METAL FASCIA BOARD TO REMAIN. PROTECT AS REQUIRED.
  - REMOVE EXISTING WOOD/ASPHALT SHINGLE DORMER AND ASSOCIATED LOUVER IN ITS ENTIRETY. SEE STRUCTURAL DOCUMENTS FOR INFILL DETAILS PRIOR TO NEW ROOF SYSTEM INSTALLATION.
  - REMOVE/REPLACE DAMAGED AREAS OF PAINTED WOOD FASCIA AND TRIM, MATCH EXISTING SIZE AND PROFILE, ALIGN FLUSH WITH EXISTING WOOD TRIM. DIMENSIONS FOR REFERENCE ONLY, FIELD VERIFY LOCATIONS AND PAINT ENTIRE LENGTH TO MATCH EXISTING.
  - LINE OF PARAPET MASONRY WALL, TO REMAIN.
  - EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT.
  - REMOVE/REPLACE DAMAGED AREAS OF PAINTED WOOD FASCIA BOARD AND WOOD PLANK SOFFIT. SEE STRUCTURAL FOR SOFFIT DETAILS. ALIGN FASCIA AND SOFFIT FLUSH WITH EXISTING FASCIA TRIM. DIMENSIONS FOR REFERENCE ONLY, FIELD VERIFY LOCATIONS. EXISTING EXTERIOR WOOD TRIM TO REMAIN, PROTECT AS REQUIRED DURING SOFFIT REPLACEMENT. SOFFITS TO BE REPLACED ENTIRELY BETWEEN EXISTING WOOD SUPPORTS.
  - REMOVE/REPLACE DAMAGED WOOD SOFFIT SUPPORT BEAM. SEE STRUCTURAL FOR DETAILS. PAINT TO MATCH EXISTING, EXTERIOR WOOD TRIM TO REMAIN, PROTECT AS REQUIRED, PATCH TO MATCH EXISTING.
  - REMOVE/REPLACE EXISTING WOOD PLANK DECKING, SEE STRUCTURAL FOR DETAIL.

NOTE: CONTRACTOR IS RESPONSIBLE FOR INCLUDING 2500 SF OF TOTAL ROOF SQUARE FOOTAGE FOR REPLACEMENT OF EXISTING PLANK DECKING. AREAS OF DAMAGED PLANK DECKING MUST BE REPLACED PRIOR TO INSTALLING NEW ROOFING SYSTEM. LOCATIONS WILL BE FIELD VERIFIED ONCE THE EXISTING ROOFING SYSTEM AND UNDERLAYMENT IS REMOVED AND PLANK DECKING IS EXPOSED. CONTRACTOR TO FIELD VERIFY DECKING CONDITIONS AND COORDINATE AREAS OF REMOVAL WITH A/E AND/OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW ROOFING SYSTEM. SEE STRUCTURAL DRAWINGS FOR REPLACEMENT DETAIL/SCOPE OF WORK. DAMAGED PLANK DECKING BEYOND THE 5% WILL BE HANDLED VIA UNIT COST.

- KEYED NOTES -- ROOF PLAN:**
- ROOF NUMBER SIGNAGE SECURE TO STANDING SEAM METAL ROOF PER MANUFACTURER SO AS NOT TO VOID WARRANTY. SIGNAGE SHALL BE 36"x36" SQUARE. THE BUILDING NUMBER AS INDICATED SHALL BE BLACK WITH A REFLECTIVE WHITE BACKGROUND. FONT SIZE SHALL FIT 36"x36" SIGN.
  - NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS OVER EXIST. WOOD DECKING ON WOOD STRUCTURAL SYSTEM. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXISTING VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM.
  - EXISTING EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR REMOVAL/REINSTALLATION REQUIREMENTS FOR ROOFING REPLACEMENT. FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
  - AREAS OF WOOD FASCIA, TRIM AND SOFFIT REPLACEMENT, PAINT TO MATCH EXISTING THE ENTIRE LENGTH OF EXISTING FASCIA, SOFFIT AND TRIM FROM BUILDING CORNER TO BUILDING CORNER, SCRAPE AND CLEAN EXISTING WOOD PRIOR TO PAINTING.
  - ALTERNATE #3 - SCRAPE CLEAN AND REPAINT EXISTING FASCIA, SOFFIT AND EXTERIOR WALL TRIM FOR ENTIRE BUILDING, AT AREAS OF SOFFIT/FASCIA REPLACEMENT INCLUDE PAINTING THE EXISTING EXTERIOR WALL TRIM AS PART OF THE ALTERNATE SCOPE OF WORK.
  - NEW MECHANICAL/ELECTRICAL EQUIPMENT, SEE MECHANICAL/ELECTRICAL DOCUMENTS FOR INSTALLATION REQUIREMENTS. FLASH CURBS PER ROOF MFR RECOMMENDATIONS.
  - LINE OF SELF-ADHERED WATER AND ICE MEMBRANE, INSTALL ALONG ROOF EDGE, RIDGE AND VALLEY PER DETAILS ON SHEETS A500, A501 AND A502.
  - NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS WITH R30 RIGID INSULATION OVER EXIST. ROOF DECK. PROVIDE REQUIRED FRAMING AND SECURE TO EXISTING ROOF DECK/STRUCTURE FOR STANDING SEAM METAL ROOF INSTALLATION TO ESTABLISH PROPER DRAINAGE FIELD VERIFY EXISTING CONDITIONS.
  - STANDING SEAM METAL CRICKET, INSTALL PER METAL ROOFING MANUFACTURER TO MAINTAIN PROPER DRAINAGE AT EXISTING PARAPET LOCATION.
  - AREA OF WOOD PLANK DECKING REPLACEMENT. SEE STRUCTURAL.
  - NEW STANDING SEAM METAL ROOFING SYSTEM, UNDERLAYMENT, FLASHING, GUTTERS AND DOWNSPOUTS WITH R30 RIGID INSULATION OVER EXISTING ROOF DECK. PROVIDE METAL ROOFING FLASHING/ACCESSORIES AT EXIST VENTS AND ELECTRICAL/MECHANICAL EQUIPMENT TO MATCH METAL ROOFING SYSTEM.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



STATE OF MISSOURI  
CERTIFICATE OF AUTHORITY #2018019473

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**OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION  
DEPARTMENT OF  
CORRECTIONS**

**1012 WEST COLUMBIA ST.  
FARMINGTON, MO 63640**

**REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER**

**FARMINGTON, MISSOURI**

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: -  
DATE: -  
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ISSUE DATE: FEBRUARY 7, 2020

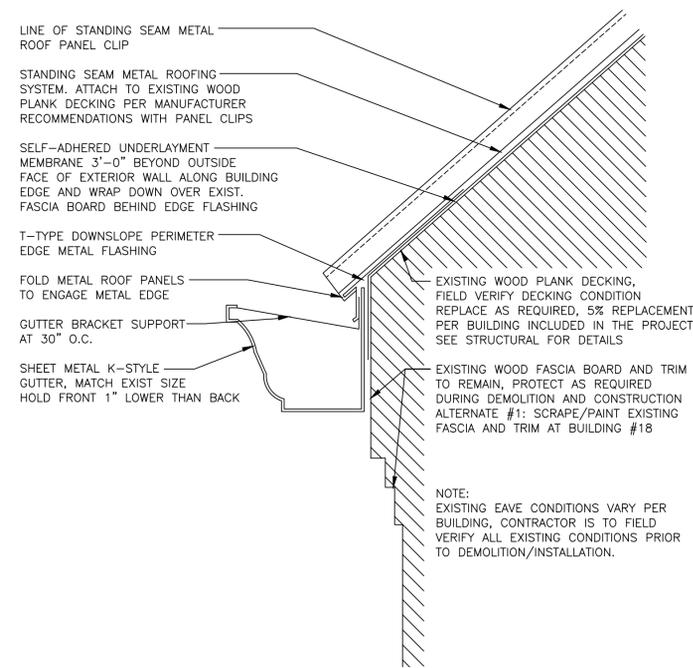
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DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
**BUILDING #33  
ROOF PLANS**

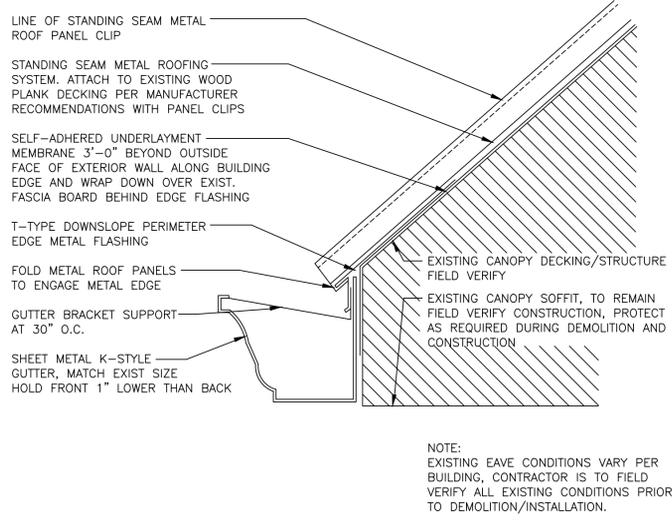
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**A107**

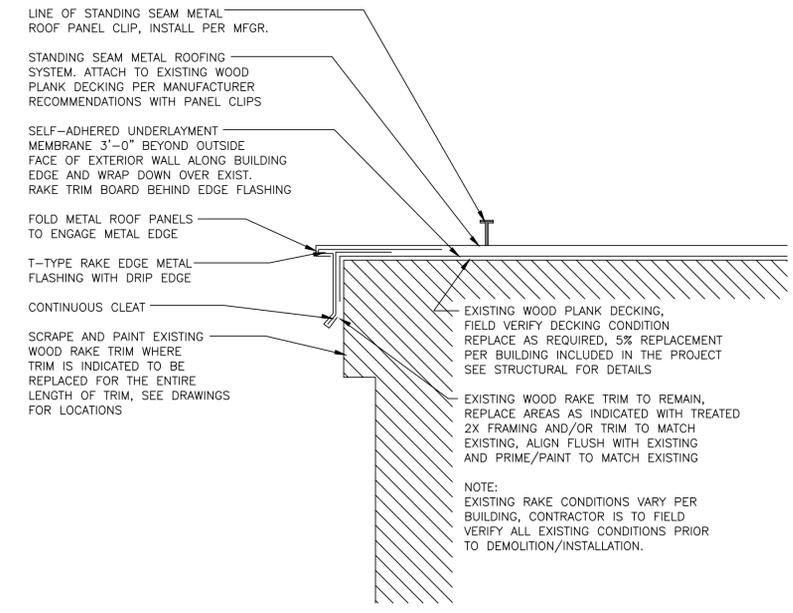
10 OF 29 SHEETS  
02/07/2020



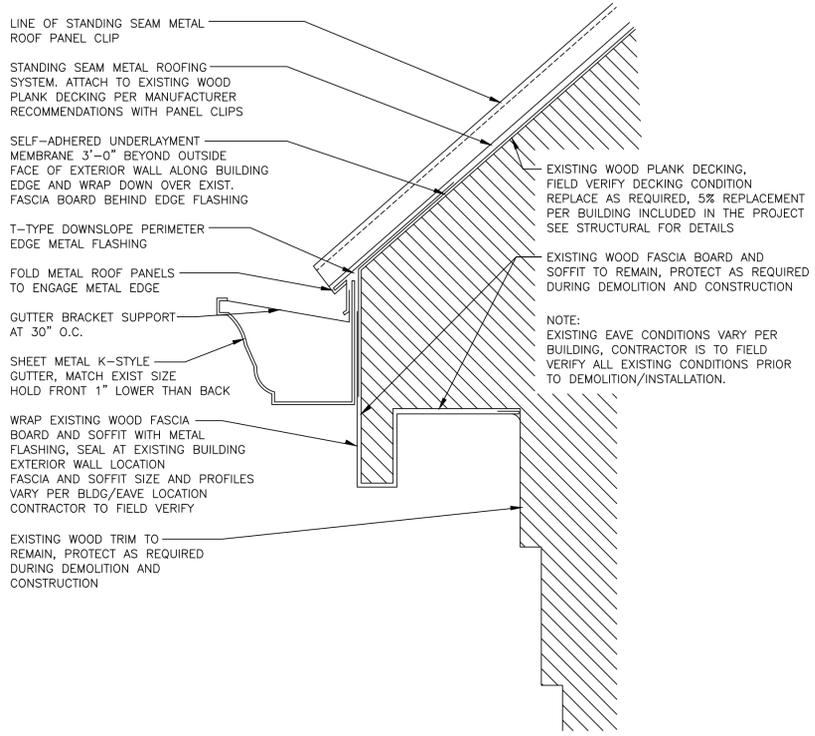
6 STANDING SEAM METAL ROOF DETAIL AT EAVE  
A500 3" = 1'-0"



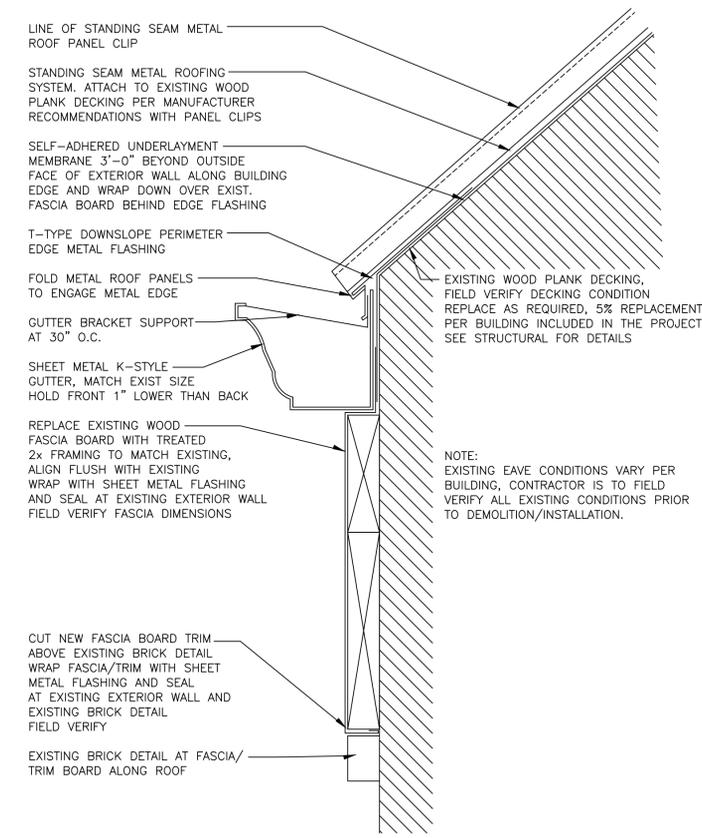
4 STANDING SEAM METAL ROOF EAVE DETAIL AT CANOPY  
A500 3" = 1'-0"



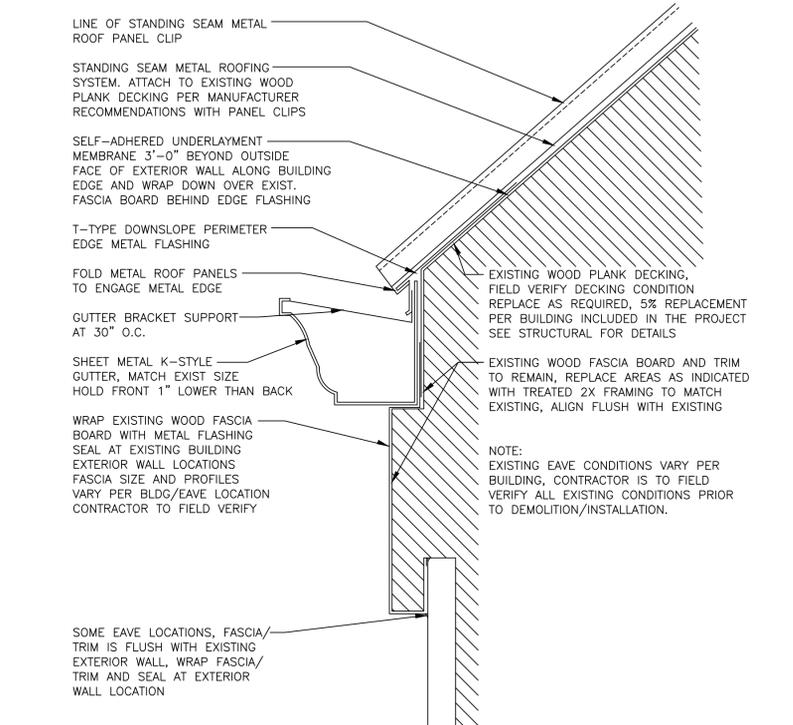
2 STANDING SEAM METAL ROOF DETAIL AT RAKE  
A500 3" = 1'-0"



5 STANDING SEAM METAL ROOF DETAIL AT EAVE  
A500 3" = 1'-0"



3 STANDING SEAM METAL ROOF DETAIL AT EAVE WITH BRICK DETAIL  
A500 3" = 1'-0"



1 STANDING SEAM METAL ROOF DETAIL AT EAVE  
A500 3" = 1'-0"



STATE OF MISSOURI  
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1012 WEST COLUMBIA ST.  
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REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

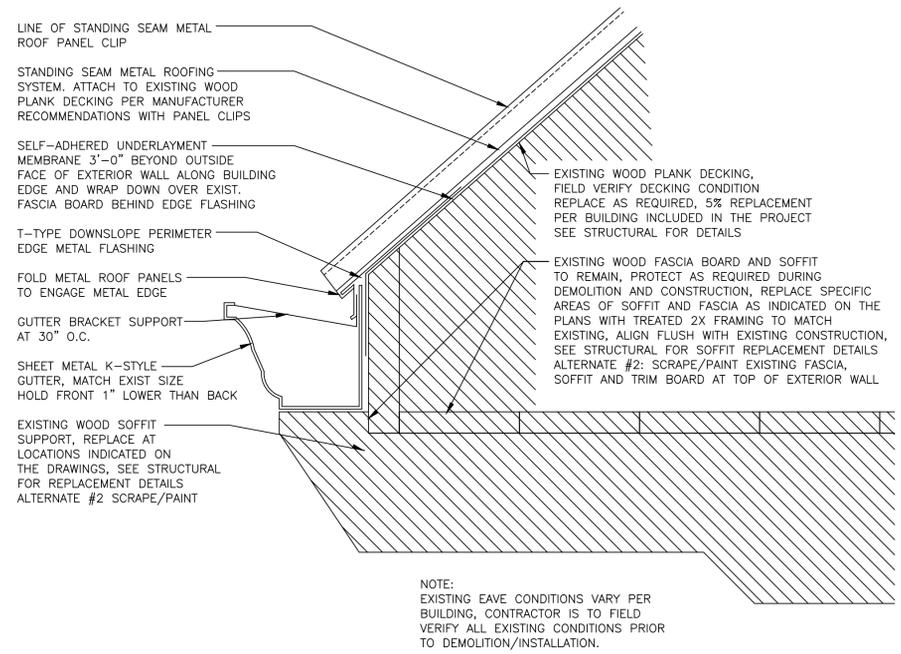
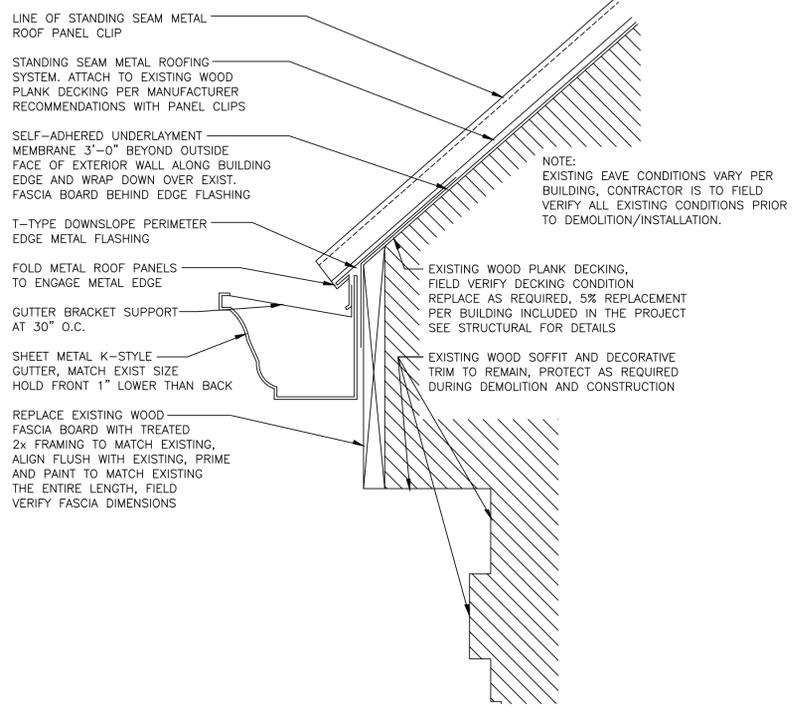
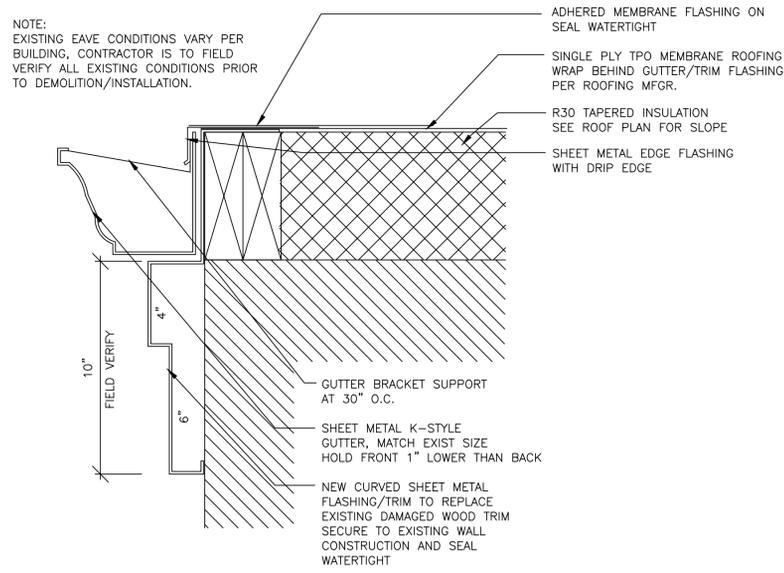
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DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: A-500  
DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
ROOF DETAILS

SHEET NUMBER:

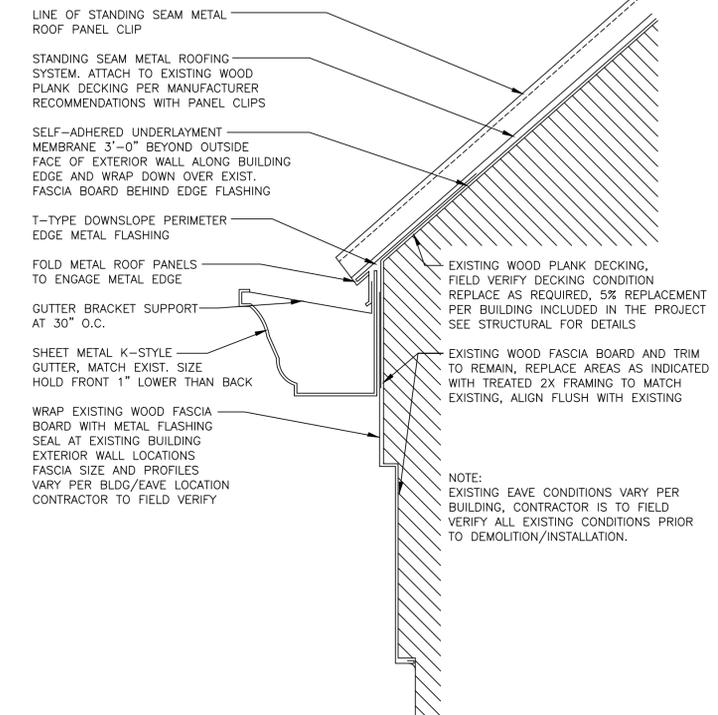
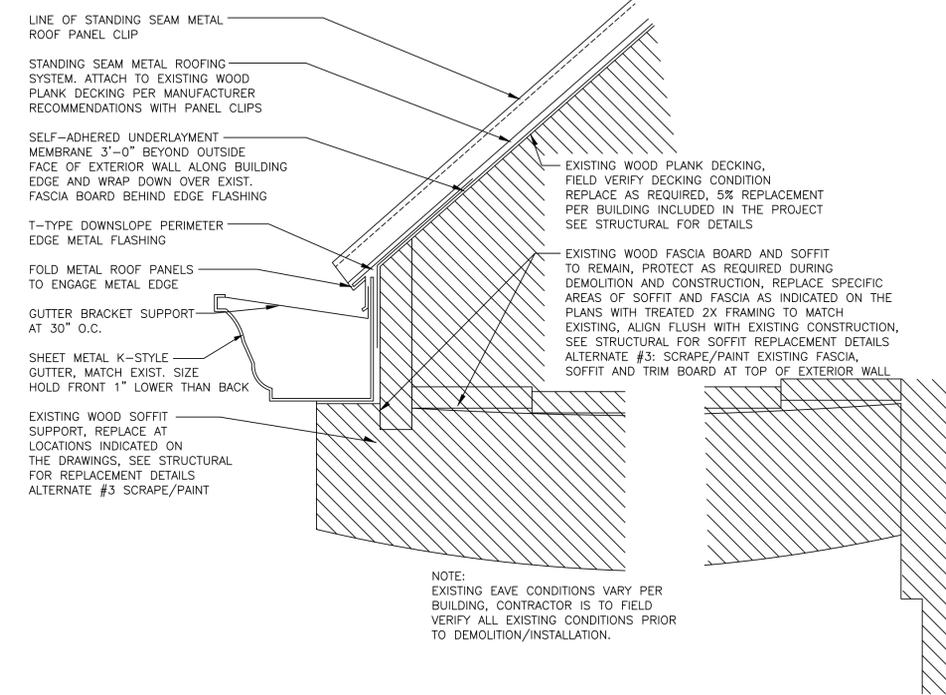
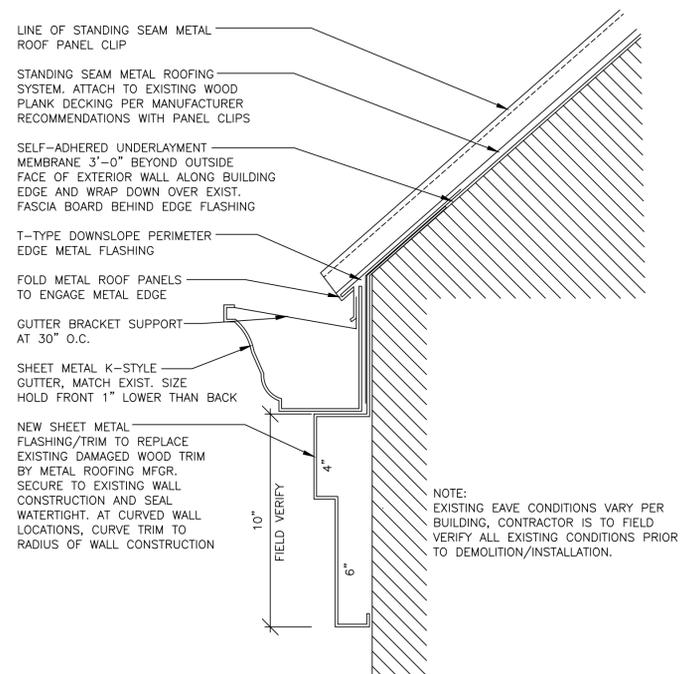
A500



6 TPO ROOF DETAIL AT EAVE ALONG EXISTING CURVED WALL  
A501 3" = 1'-0"

4 STANDING SEAM METAL ROOF DETAIL AT EAVE ALONG DECORATIVE TRIM  
A501 3" = 1'-0"

2 STANDING SEAM METAL ROOF DETAIL AT EAVE ALONG SOFFIT  
A501 3" = 1'-0"



5 STANDING SEAM METAL ROOF DETAIL AT CURVED TRIM REPLACEMENT  
A501 3" = 1'-0"

3 STANDING SEAM METAL ROOF DETAIL AT EAVE ALONG SOFFIT  
A501 3" = 1'-0"

1 STANDING SEAM METAL ROOF DETAIL AT EAVE  
A501 3" = 1'-0"

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



STATE OF MISSOURI  
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9327008081, 9327008080, 9327008079

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DATE: -  
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DATE: -  
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DATE: -  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: A-500  
DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
ROOF DETAILS

SHEET NUMBER:

A501

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02/07/2020



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ISSUE DATE: FEBRUARY 7, 2020

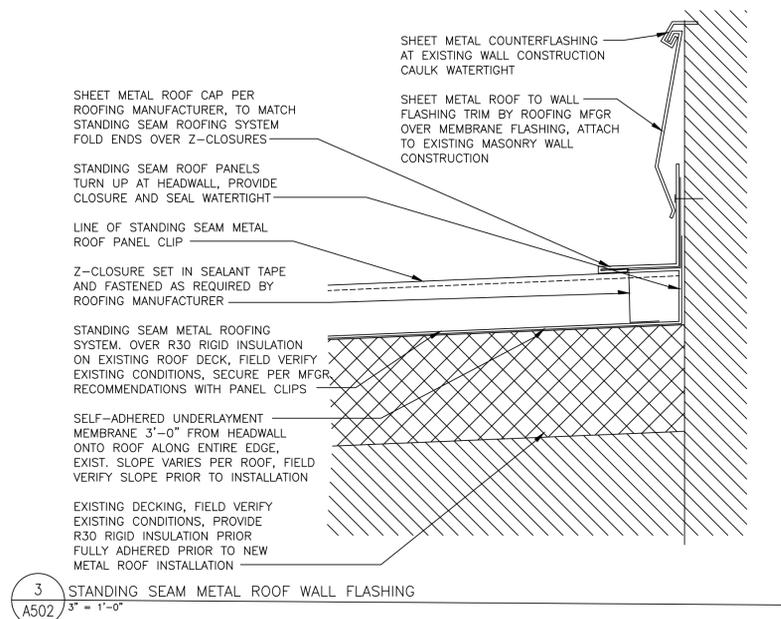
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DRAWN BY: EL  
CHECKED BY: EL  
DESIGNED BY: EL

SHEET TITLE:  
**ROOF DETAILS**

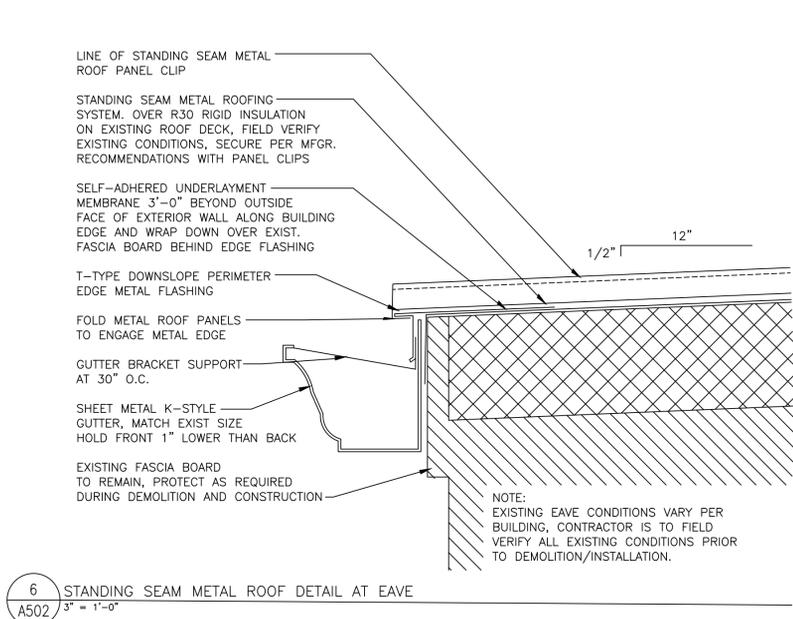
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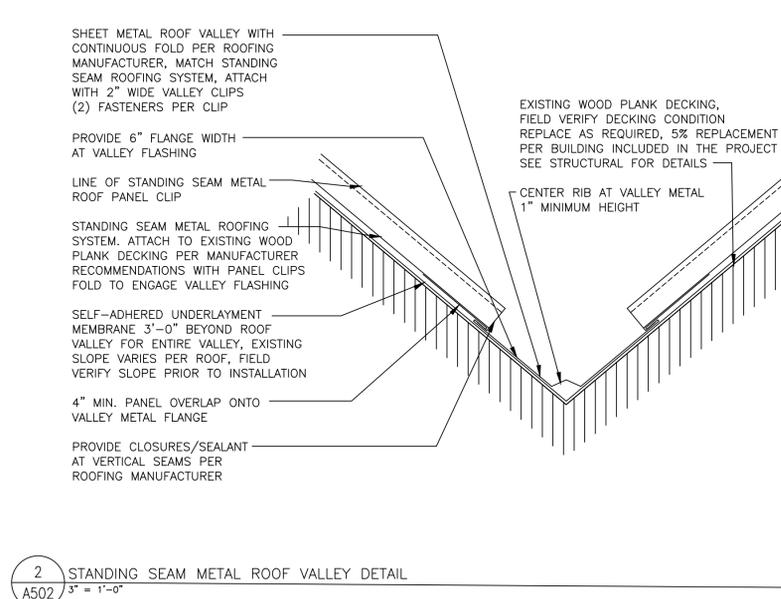
13 OF 29 SHEETS  
02/07/2020



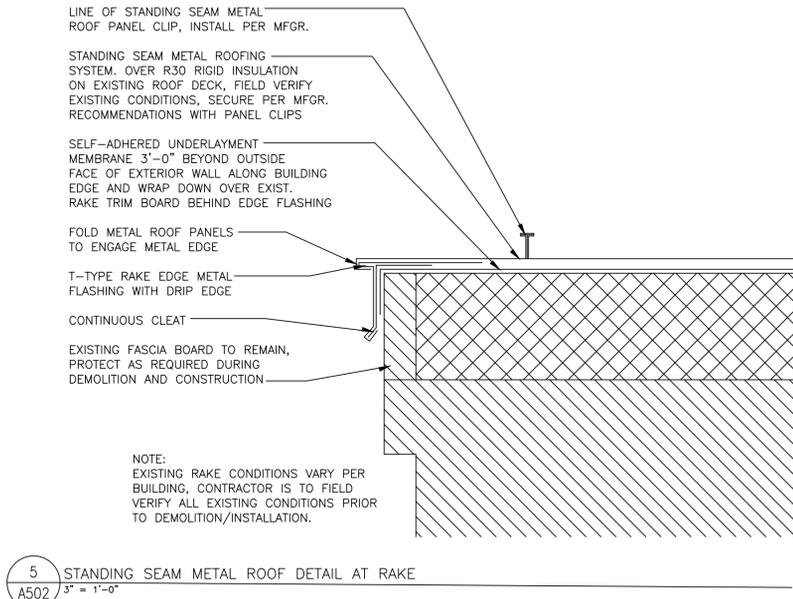
3 STANDING SEAM METAL ROOF WALL FLASHING  
3" = 1'-0"



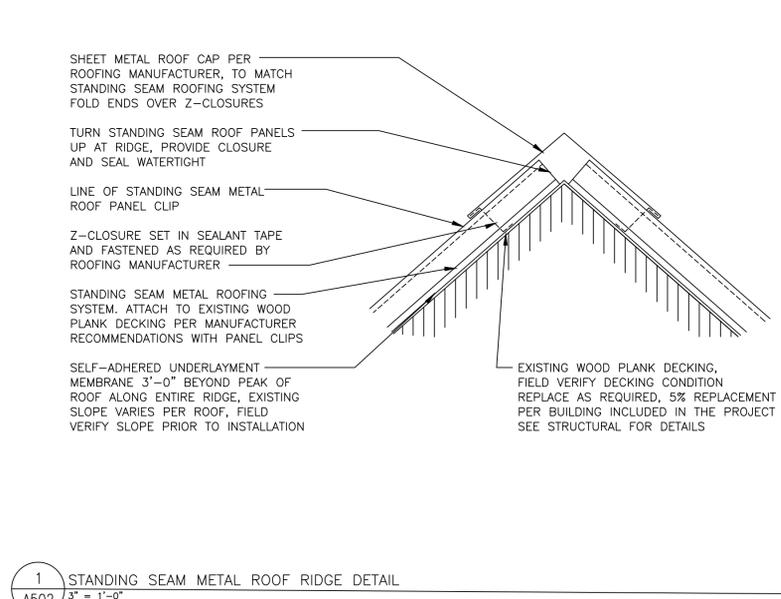
6 STANDING SEAM METAL ROOF DETAIL AT EAVE  
3" = 1'-0"



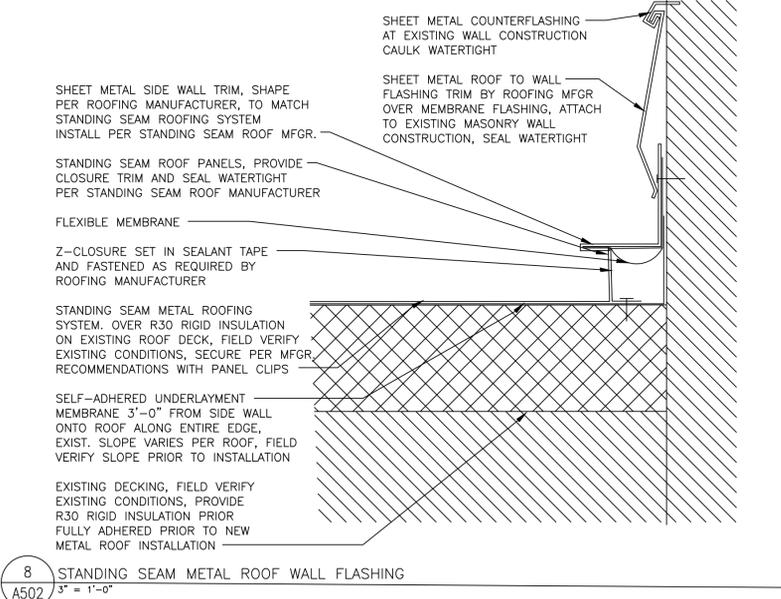
2 STANDING SEAM METAL ROOF VALLEY DETAIL  
3" = 1'-0"



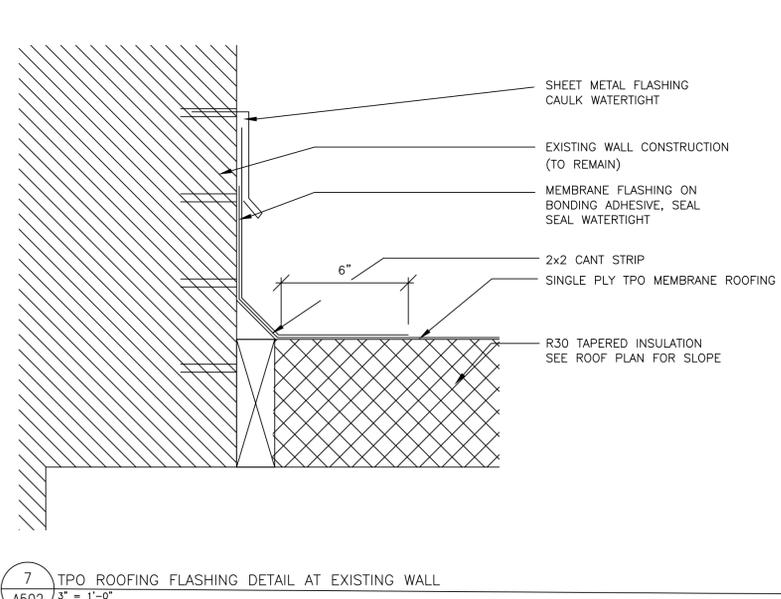
5 STANDING SEAM METAL ROOF DETAIL AT RAKE  
3" = 1'-0"



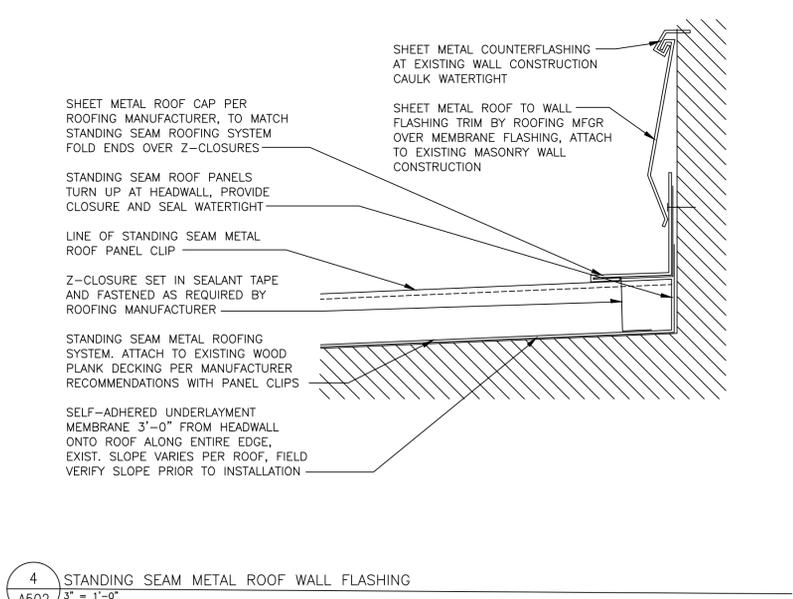
1 STANDING SEAM METAL ROOF RIDGE DETAIL  
3" = 1'-0"



8 STANDING SEAM METAL ROOF WALL FLASHING  
3" = 1'-0"



7 TPO ROOFING FLASHING DETAIL AT EXISTING WALL  
3" = 1'-0"



4 STANDING SEAM METAL ROOF WALL FLASHING  
3" = 1'-0"



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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: S000  
DRAWN BY: WALLEW  
CHECKED BY: TODBAR  
DESIGNED BY: KATGOL

SHEET TITLE:  
GENERAL NOTES

SHEET NUMBER:

S000

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02/07/2020

**DESIGN CRITERIA AND LOADS**

- STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:  
IBC 2018  
ASCE/SEI 7-16  
NDS-18 AND SOPWS-18
- RISK CATEGORY III
- SEISMIC:  
SEISMIC DESIGN CATEGORY D  
IMPORTANCE FACTOR 1.25  
SOIL CLASSIFICATION D (ASSUMED)  
S<sub>s</sub> 0.58 g  
S<sub>1</sub> 0.216 g  
S<sub>0.1</sub> 0.526 g  
S<sub>0.01</sub> 0.288 g
- WIND:  
BASIC WIND SPEED 115 MPH  
IMPORTANCE FACTOR 1.15  
EXPOSURE CLASS C
- LIVE LOADS:  
TYPICAL ROOF 20 PSF
- SNOW:  
GROUND SNOW 20 PSF  
SNOW EXPOSURE FACTOR 0.9  
THERMAL FACTOR 1.1  
IMPORTANCE FACTOR 1.1  
DESIGN SNOW 20 PSF  
RAIN-ON-SNOW SURCHARGE 5 PSF

**GENERAL**

- NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD (AOR) PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR AOR.
- ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE AOR SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
- STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE AOR PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH AOR.
- TYPICAL DETAILS SHALL APPLY UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE AOR OR STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
- NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SEOR.
- BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
- SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE AOR. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE AOR SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE AOR/SEOR.
- SHOP DRAWINGS SHALL BE REVIEWED BY THE AOR/SEOR FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE AOR/SEOR ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- EXISTING CONDITIONS:  
A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM FIELD TAKE-OUT BY IMEG AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.  
B. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE AOR OR SEOR SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE AOR OR SEOR.
- STRUCTURAL PLANS DO NOT INCLUDE BUILDINGS 16, 18, 19, BUT WORK IS BEING DONE THERE - INCLUDING, BUT NOT LIMITED TO EXISTING WOOD PLANK REPLACEMENT, AND FASCIA/TRIM REPLACEMENT.

**DEMOLITION**

- ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
- ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

**WOOD**

- SHEATHING  
A. SHALL CONFORM TO:  
ROOF SHEATHING: SLOPED 3/4" THICK; 32/16 APA SPAN RATING PROVIDE 6d NAILS AT 6" OC ALONG ALL EDGES AND AT 12" OC AT INTERMEDIATE SUPPORTS  
B. ALL SHEATHING WHICH IS EXPOSED TO OUTDOOR APPLICATIONS SHALL BE EXTERIOR TYPE. SHEATHING EXPOSED TO WEATHER ONLY DURING CONSTRUCTION SHALL BE EXPOSURE 1. ALL WOOD STRUCTURAL PANELS SHALL CONFORM TO 2303.1.4 AND WHEN USED IN HORIZONTAL DIAPHRAGM AND VERTICAL SHEAR WALLS SHALL BE FIVE-PLY MINIMUM.
- DIMENSIONAL LUMBER  
A. FRAMING SHALL BE DOUGLAS FIR (LARCH), HEM FIR, SPRUCE PINE FIR OR SOUTHERN PINE AND CONFORM TO THE FOLLOWING STRENGTHS:  
#2 OR BETTER  
F<sub>b</sub> = 900 PSI F<sub>c||</sub> = 1350PSI  
ALL LUMBER STRESSES SHOWN ABOVE ARE FOR VISUALLY STRESS-RATED LUMBER USED AT 19% MAXIMUM MOISTURE CONTENT, SINGLE MEMBER USE. ALL LUMBER SHALL BE GRADE MARKED.  
B. OPENINGS NOT IDENTIFIED ARE TO BE TREATED AS FOLLOWS:  
1) WHERE OPENING FITS BETWEEN JOISTS, FRAME WITH LUMBER EQUALING THE NOMINAL DIMENSIONS OF THE EXISTING JOISTS.  
2) WHERE OPENING CUTS ONE JOIST, FRAME WITH LUMBER EQUALING THE NOMINAL DIMENSIONS OF THE EXISTING JOISTS. USE THIS FRAMING AS A HEADER FOR THE INTERRUPTED JOIST. FOR EACH JOIST BYPASSING THE OPENING, CUT AND SISTER A NEW JOIST. USE 1/2" LAG SCREWS AT 12" OC TO SISTER JOISTS TOGETHER. PENETRATIONS WHERE MORE THAN ONE JOIST IS CUT TO BE REVIEWED BY SEOR.
- FASTENING  
A. ALL NAILS SHALL BE COMMON WIRE NAILS. AT ALL EXPOSED NAILING TO WEATHER, (IE-DECKING & SIDING), USE HOT-DIPPED GALVANIZED NAILS. USE OF PLASTIC COATED OR CASING NAILS IS NOT ALLOWED. NAIL DESIGNATIONS SHALL MEET THE FOLLOWING LENGTHS AND DIAMETERS:  
6d 2" x 0.113" 12d 3 1/4" x 0.148"  
8d 2 1/2" x 0.131" 16d 3 1/2" x 0.152"  
10d 3" x 0.148" 20d 4" x 0.192"  
B. THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THE FOLLOWING:

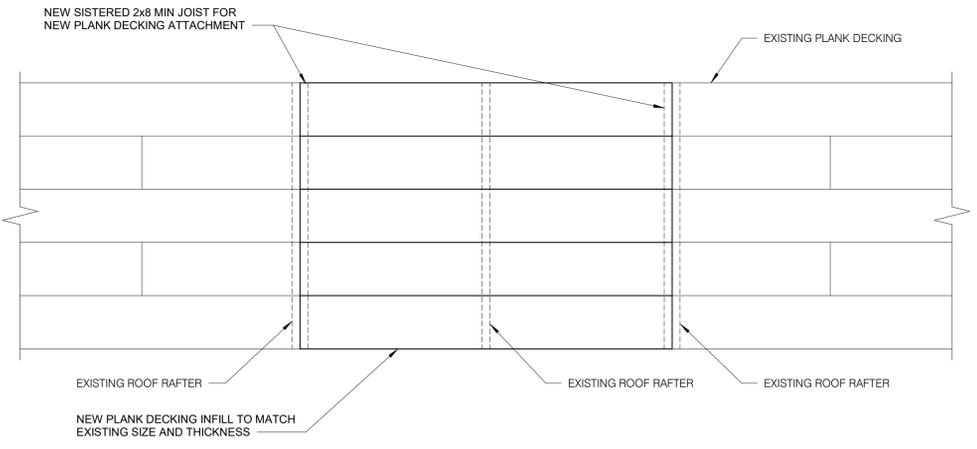
CONNECTION	FASTENING
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) 8d TOENAILS
CEILING JOISTS TO PARALLEL RAFTERS	REFER TO TABLE 2308.7.3.1
RAFTER TO PLATE	(3) 10d TOENAILS

- USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND THE APPROVAL OF THE AOR/SEOR. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING IS NOT ALLOWED FOR 5/16" SHEATHING. IF THE NAIL HEADS PENETRATE MORE THAN WOULD BE NORMAL FOR A HANDHELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING WILL BE DISCONTINUED.
- USE STANDARD CUT WASHERS BETWEEN THE BOLT HEADS, BOLT NUTS AND LAG SCREW HEADS AND WOOD FRAMING.
- ALL WOOD CONNECTIONS MADE WITH LAG SCREWS SHALL BE MADE WITH SCREWS CONFORMING TO THE REQUIREMENTS OF ANSIA/SMAE B18.2.5. LEAD HOLES FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH AS THE LENGTH OF UNTHREADED SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60-75% OF THE THREADED PORTION.
- WHERE THERE ARE CONNECTOR NAILING ALTERNATIVES LISTED IN THE MANUFACTURER'S CATALOG, THE NAILING PROVIDING THE HIGHEST LOAD CAPACITY SHALL BE USED.
- GENERAL CONSTRUCTION REQUIREMENTS:  
A. FRAMING PLANS INDICATE GENERAL LAYOUT AND DIMENSIONAL CONTROL ONLY. REFER TO SHOP DRAWINGS FOR ENGINEERING AND ERECTION.  
B. WHERE MULTIPLE JOISTS OR HEADERS OCCUR, THERE SHALL BE A SHOULDER STUD FOR EACH PLY (IE - PROVIDE DOUBLE STUDS UNDER DOUBLE JOISTS).  
C. SOLID-SAWN LUMBER BEAMS, RAFTERS AND JOISTS SHALL HAVE LATERAL SUPPORT PREVENTING ROTATION OR DISPLACEMENT AS FOLLOWS BASED UPON SPAN-TO-DEPTH RATIOS:  
1) 2:1, NO LATERAL SUPPORT IS REQUIRED;  
2) 3:1 OR 4:1, THE ENDS SHALL BE HELD IN POSITION BY FULL-DEPTH BLOCKING, BRIDGING, NAILING OR BOLTING TO OTHER FRAMING MEMBERS;  
3) 5:1, ONE EDGE SHALL BE HELD IN LINE FOR ITS ENTIRE LENGTH;  
4) 6:1, FULL-DEPTH BLOCKING, BRIDGING OR CROSS BRACING SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 8 FT UNLESS BOTH EDGES ARE HELD IN LINE;  
5) 7:1, BOTH EDGES SHALL BE HELD IN LINE FOR THE ENTIRE LENGTH.  
D. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED, WITHOUT WRITTEN APPROVAL FROM THE SEOR.  
1) AT NON-BEARING STUDS: A HOLE NOT GREATER THAN 40% OF THE STUD WIDTH MAY BE BORED. BORED HOLES NOT GREATER THAN 60% OF THE STUD WIDTH ARE PERMITTED WHERE EACH BORED STUD IS DOUBLED, PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLE STUDS ARE SO BORED. IN NO CASE SHALL THE EDGE OF THE BORE HOLE BE NEARER THAN 5/8" TO THE STUD EDGE. BORE HOLES SHALL NOT BE LOCATED AT THE SAME SECTION IF CUT OR NOTCHED.  
E. STRUCTURAL HEADERS OR OTHER STRUCTURAL COMPONENTS MAY BE SUBSTITUTED UPON APPROVAL OF THE SEOR. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS FOR THE COMPONENTS.

**WOOD DECKING**

- DECKING MATERIALS SHALL COMPLY WITH THE FOLLOWING:  
SIZE MATCH EXISTING, MINIMUM 1x8  
GRADE NO. 2 MINIMUM  
FASTENING MINIMUM (3) 8d COMMON NAILS AT EACH SUPPORT

STRUCTURAL ABBREVIATION KEY			
ABBR:	DESCRIPTION:	ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS	LL	LIVE LOAD
@	DIAMETER	LLH	LONG LEG HORIZONTAL
Ø	DEGREE	LLV	LONG LEG VERTICAL
Ø	DIAMETER	LSH	LONG SIDE HORIZONTAL
-3	SLAB DEPRESSION	LSV	LONG SIDE VERTICAL
A.B.	ANCHOR BOLT	LOW	LOW
AHU	AIR-HANDLING UNIT	LONG	LONGITUDINAL
ARCH	ARCHITECT -URE, -URAL	LT WT	LIGHTWEIGHT
B.O.	BOTTOM OF	M.B.	MACHINE BOLT
B.F.	BEAM FLANGE WIDTH	MAX	MAXIMUM
BF	BRACE FRAME	MECH	MECHANICAL
BLKG	BLOCKING	MANUF	MANUFACTURER
BN	BOUNDARY NAILING	MIN	MINIMUM
B.O.F.	BOTTOM OF FOOTING	MTL	METAL
BT	BOTTOM	N	NORTH
BP	BASE PLATE	NI	NOT IN CONTRACT
BTWN	BETWEEN	NTS	NOT TO SCALE
CFSP	COLD FORM STEEL FRAMING	ON CENTER	ON CENTER
CLR	CLEAR	OH	OPPOSITE HAND
CL	CENTERLINE	OPNG	OPENING
CNU	CONCRETE MASONRY UNIT	PC	PIECE
COL	COLUMN	PCF	POUNDS PER CUBIC FOOT
CONC	CONCRETE	P.H.	PENTHOUSE
CONT	CONTINUOUS	PLATE	PLATE
DIA	DIAMETER	PLF	POUNDS PER LINEAR FOOT
DIM	DIMENSION	PLYWD	PLYWOOD
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PTDF	PRESSURE TREATED DOUGLAS FIR
DWL	EACH	R	RADIUS
EA	EACH FACE	REINF	REINFORCING, -MENT, -ED
EF	ELEVATION	REQD	REQUIRED
ELEV	ELEVATION	RTU	ROOF-TOP UNIT
ELEC	ELECTRICAL	SC	TC WITH CLASS A FAYING SURFACE
ELEV	ELEVATOR	SCBF	SPECIAL CONCENTRIC BRACE FRAME
E.N.	EDGE NAILING	SDG	SCHEDULE
EOD	EDGE OF DECK	SEPN	SEPARATION
EOS	EDGE OF SLAB	SIM	SIMILAR
EQ	EQUAL	SHTG	SHEATHING
EQUIP	EQUIPMENT	SL	SNOW LOAD
EW	EACH WAY	SLRS	SEISMIC LOAD RESISTING SYSTEM
EXIST	EXISTING	SLG	SLAB ON GRADE
EXP	EXPANSION	SP	SPACE(S)
EXT	EXTERIOR	SPEC	SPECIFICATION(S)
F <sub>c</sub>	CONCRETE COMPRESSIVE STRENGTH	SQ	SQUARE
FLR	FLOOR	STIFF	STIFFENER
FIN	FINISH -ED	STL	STEEL
F.N.	FIELD NAILING	SUPP	SUPPORT
F.O.S.	FACE OF STUD	SYMT	SYMMETRICAL
F.O.W.	FACE OF WALL	T.O	TOP OF
FRMG	FRAMING	T.O.S.	TOP OF STEEL
FTG	FOOT	T.O.W.	TOP OF WALL
FY	YIELD STRESS	TC	PRE-TENSIONED BOLT
GA	GAGE OR GAUGE	TEMP	TEMPERATURE
GALV	GALVANIZED	THK	THICK
GB	GRADE BEAM	TRANS	TRANSVERSE
HI	HIGH	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HSB	HIGH STRENGTH BOLT	VERT	VERTICAL
IN	INCH	VVA	VERIFY WITH ARCHITECTURAL DRAWINGS
INT	INTERIOR	W	WITH
JT	JOINT	WP	WORK POINT
K, KIP	KILOPOUND (1,000 POUNDS)	WT	WEIGHT
KSP	KIPS PER SQUARE FOOT	WWR	WELED WIRE REINFORCING
LB	POUND		



**EXISTING ROOF PLANK DECKING REPLACEMENT DETAIL**

3/4" = 1'-0"

**NOTES:**

- NEW PLANK SHALL SPAN AT LEAST TWO SUPPORTS.
- NAIL NEW PLANK TO RAFTERS WITH (3) 8d COMMON NAILS AT EACH PLANK AT EACH SUPPORT.
- CONTRACTOR TO PUT IN BASE BID AN ALLOWANCE TO REPLACE 5% OF THE EXISTING ROOF PLANK DECKING AT BUILDINGS 16, 17, 18, 19, 31, 32, AND 33. APPROXIMATE SQUARE FOOTAGE ASSUMED IS ± 2500 SQ FT. AREAS OF DAMAGED PLANK DECKING MUST BE REPLACED PRIOR TO INSTALLING THE NEW ROOFING SYSTEM. LOCATIONS WILL BE FIELD VERIFIED ONCE THE EXISTING ROOFING SYSTEM IS REMOVED AND PLANK DECKING IS EXPOSED. DAMAGED PLANK DECKING BEYOND THE 5% WILL BE HANDLED VIA UNIT COST.

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**1012 WEST COLUMBIA ST.  
FARMINGTON, MO 63640**

REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082,  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

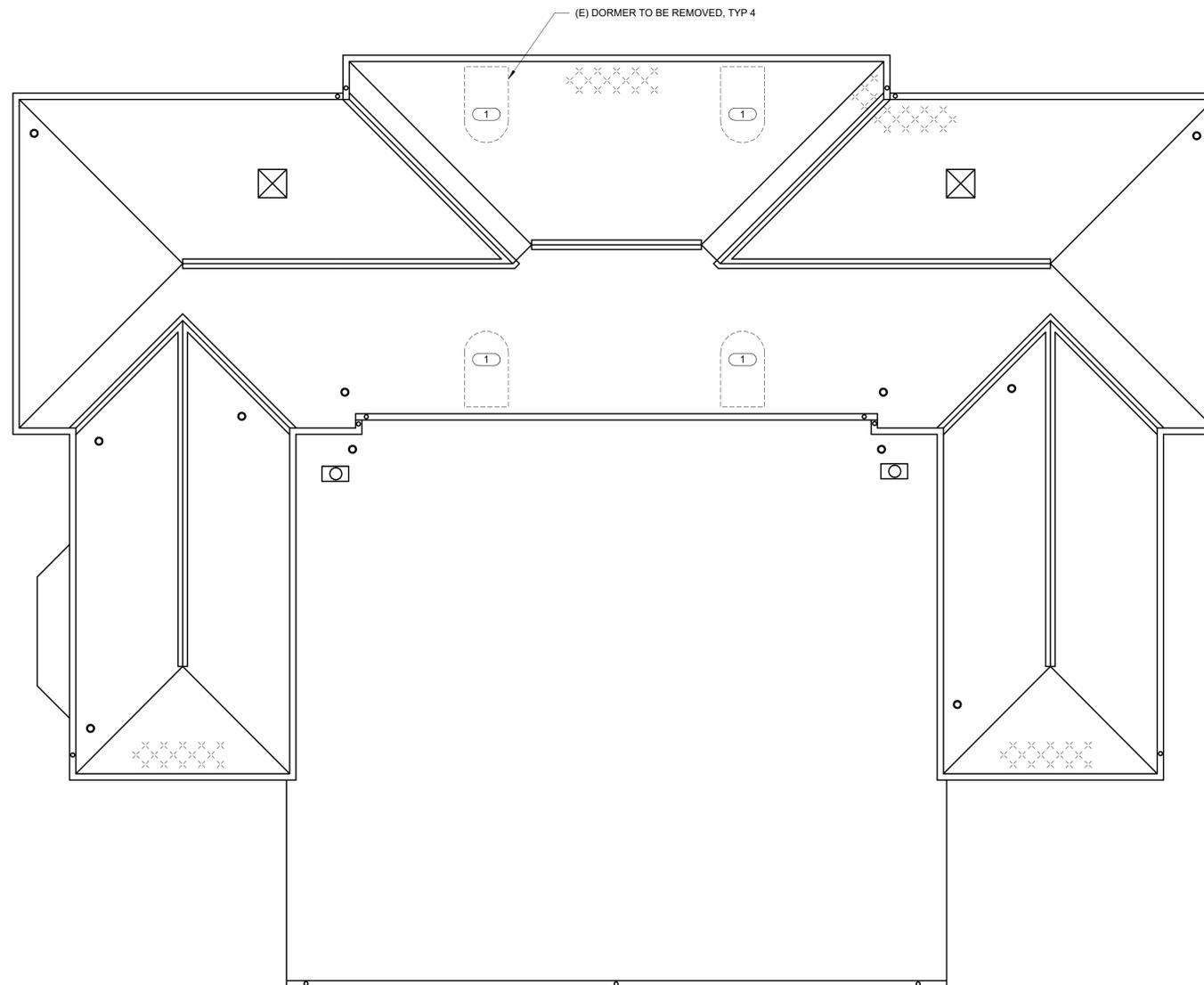
CAD DWG FILE: S101  
DRAWN BY: WALLEW  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: KATGOL

SHEET TITLE:  
ROOF FRAMING PLAN -  
BUILDING 17

SHEET NUMBER:

**S101**

15 OF 29 SHEETS  
02/07/2020

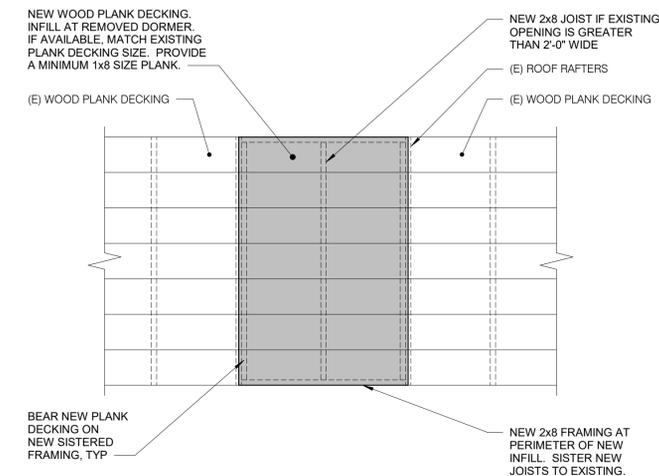


**1 ROOF FRAMING PLAN - BUILDING 17**

1/8" = 1'-0"

KEYNOTES: #

1. INFILL EXISTING DORMER WITH NEW WOOD PLANK DECKING TO MATCH EXISTING PLANK DECKING SIZE. SPAN PLANK IN SAME DIRECTION AS EXISTING. REFER TO DETAIL 2/S101.



**2 TYPICAL ROOF DORMER INFILL DETAIL**

1/2" = 1'-0"

NOTES:

1. IF EXACT THICKNESS OF PLANK DECKING IS NOT AVAILABLE, MATCH TOP OF PLANK TO EXISTING AND SHIM NEW AS NECESSARY.
2. ATTACH ENDS OF NEW 2x8 JOISTS TO PERPENDICULAR FRAMING WITH SIMPSON LUS HANGER.

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PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082,  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

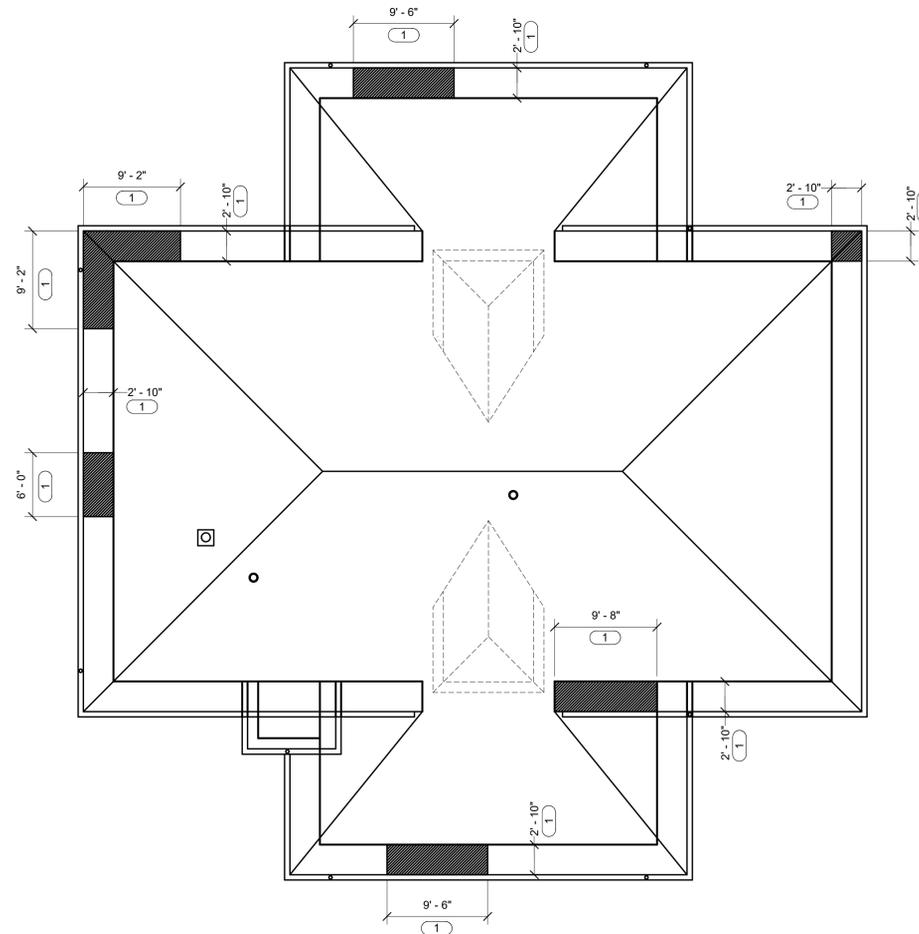
CAD DWG FILE: S102  
DRAWN BY: WALLEW  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: KATGOL

SHEET TITLE:  
ROOF FRAMING PLAN -  
BUILDING 31

SHEET NUMBER:

**S102**

16 OF 29 SHEETS  
02/07/2020



**1 ROOF FRAMING PLAN - BUILDING 31**

1/8" = 1'-0"

NOTES:

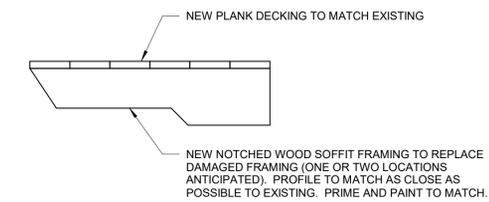
- DAMAGED AND ROTTING SOFFIT FRAMING TO BE REMOVED AND REPLACED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND PHOTO ON THIS SHEET EXEMPLIFYING SOFFIT CONDITIONS TO BE REPLACED. REFER TO DETAIL 2/S102 FOR SOFFIT FRAMING REPAIR DETAIL.

KEYNOTES: (#)

- APPROXIMATE LOCATION OF DAMAGED SOFFIT IN NEED OF REPLACEMENT. REFER TO NOTE 1. DIMENSIONS TO BE FIELD VERIFIED AND VERIFIED WITH ARCHITECTURAL DRAWINGS.



**PHOTO 1 - DAMAGED SOFFIT FRAMING TO BE REPLACED**



**2 SOFFIT FRAMING REPAIR DETAIL**

1" = 1'-0"

NOTES:

- NEW WOOD SHOULD BE PRESERVATIVE TREATED PRIOR TO PAINTING.
- ATTACHMENT OF NEW SUPPORT TO BUILDING FRAMING SHALL MATCH EXISTING.

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FARMINGTON, MISSOURI

PROJECT # C1922-01

SITE # 7008

ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

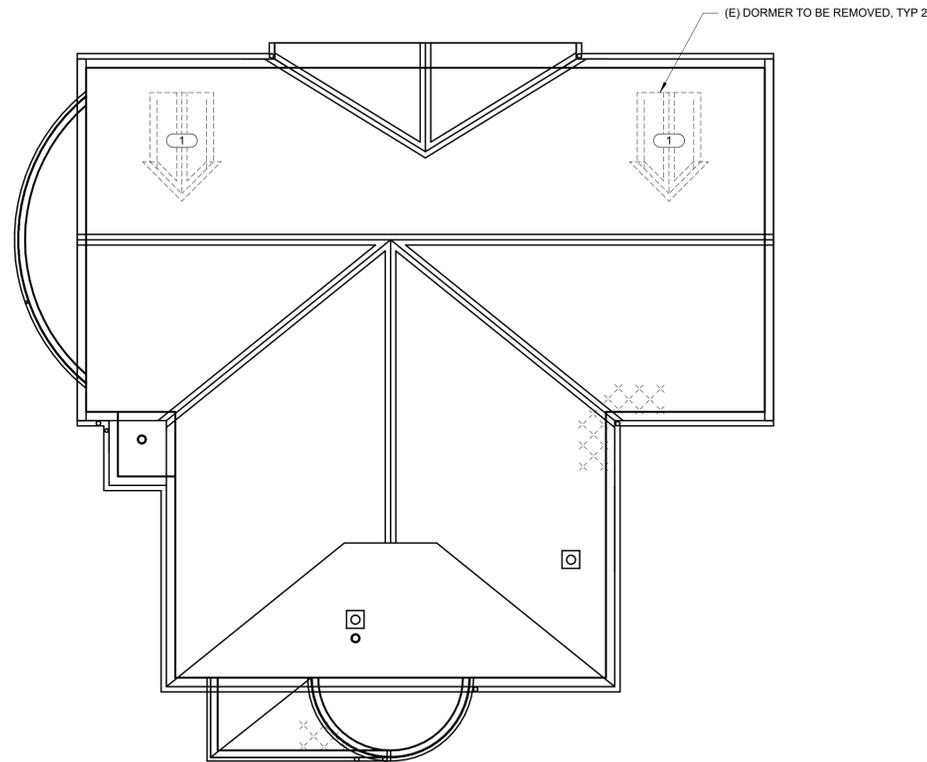
CAD DWG FILE: S103  
DRAWN BY: WALLEW  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: KATGOL

SHEET TITLE:  
ROOF FRAMING PLAN -  
BUILDING 32

SHEET NUMBER:

S103

17 OF 29 SHEETS  
02/07/2020



1

**ROOF FRAMING PLAN - BUILDING 32**

1/8" = 1'-0"

KEYNOTES: (#)

1. INFILL EXISTING DORMER WITH NEW WOOD PLANK DECKING TO MATCH EXISTING PLANK DECKING SIZE. SPAN PLANK IN SAME DIRECTION AS EXISTING. REFER TO DETAIL 2/S101.





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FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

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DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

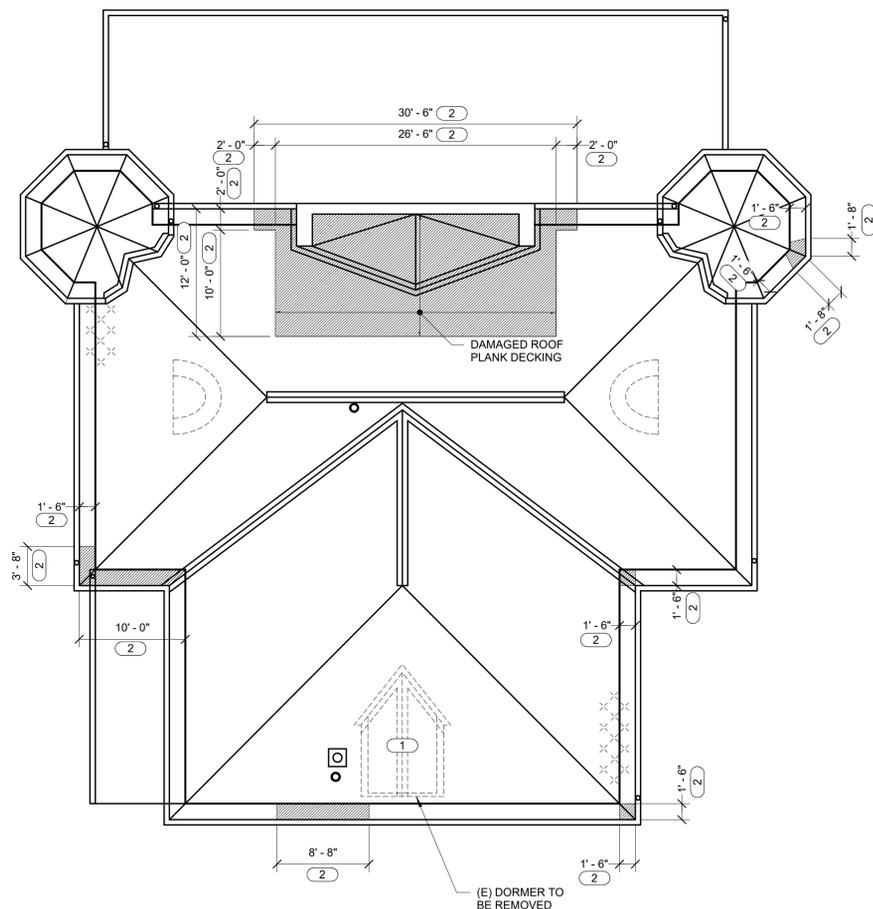
CAD DWG FILE: S104  
DRAWN BY: WALLEW  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: KATGOL

SHEET TITLE:  
ROOF FRAMING PLAN -  
BUILDING 33

SHEET NUMBER:

**S104**

18 OF 29 SHEETS  
02/07/2020



**1 ROOF FRAMING PLAN - BUILDING 33**

1/8" = 1'-0"

NOTES:

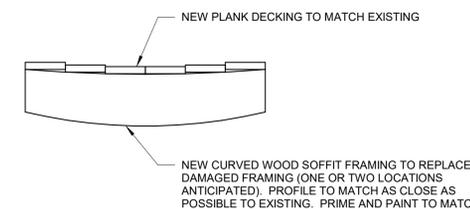
- DAMAGED AND ROTTING SOFFIT FRAMING AND/OR WOOD PLANK DECKING TO BE REMOVED AND REPLACED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND PHOTO ON THIS SHEET EXEMPLIFYING SOFFIT CONDITIONS TO BE REPLACED. REFER TO DETAIL 2/S104 FOR SOFFIT FRAMING REPAIR DETAIL.

KEYNOTES: (#)

- INFILL EXISTING DORMER WITH NEW WOOD PLANK DECKING TO MATCH EXISTING PLANK DECKING SIZE. SPAN PLANK IN SAME DIRECTION AS EXISTING. REFER TO DETAIL 2/S101.
- APPROXIMATE LOCATION OF DAMAGED SOFFIT AND ROOF PLANK DECKING IN NEED OF REPLACEMENT. REFER TO NOTE 1. DIMENSIONS TO BE FIELD VERIFIED AND VERIFIED WITH ARCHITECTURAL DRAWINGS.



**PHOTO 1 - DAMAGED SOFFIT FRAMING TO BE REPLACED**



**2 SOFFIT FRAMING REPAIR DETAIL**

1" = 1'-0"

NOTES:

- NEW WOOD SHOULD BE PRESERVATIVE TREATED PRIOR TO PAINTING.
- ATTACHMENT OF NEW SUPPORT TO BUILDING FRAMING SHALL MATCH EXISTING.

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VIEW KEY	
	INDICATES DIRECTION OF TRUE NORTH
	LEVEL NAME
	HEIGHT ABOVE PROJECT 0' - 0"
	INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
	INDICATES DIRECTION OF TRUE NORTH
	PLAN OR DETAIL NUMBER
	PLAN OR DETAIL NAME
	PLAN OR DETAIL SCALE
	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
	DETAIL REFERRED TO BY SECTION CUT
	SHEET DETAIL IS LOCATED ON
	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
	DETAIL REFERRED TO BY ELEVATION
	SHEET DETAIL IS LOCATED ON
<b>LINE TYPE KEY:</b>	
	NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
	NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
	NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

VENTILATION ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
E	EXISTING
EA	EXHAUST/RELIEF AIR
MA	MIXED AIR
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF

MECHANICAL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	THERMOSTAT/SENSOR
	TEMPERATURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	AIRFLOW MEASUREMENT SYMBOL
	XX - AHU SYMBOL
	Y - SEQUENTIAL NUMBER

### MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO VENTILATION AND PLUMBING.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

### MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO VENTILATION AND PLUMBING.

- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS, PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
- PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

### MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO VENTILATION AND PLUMBING.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- SEAL ALL ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY ROOFING MANUFACTURERS FOR OUTDOOR USE.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

### TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING AND BALANCING TAB CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

### TAB PRE-DEMOLITION NOTES:

- BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
- BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93.

### ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	ECONN	26 05 33	ELECTRICAL CONNECTION

### ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.

### ELECTRICAL GENERAL NOTES:

- ### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME. REFER TO SPECIFICATIONS.

### ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO LIGHTING, POWER, AND SYSTEMS.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

### ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO LIGHTING, POWER, AND SYSTEMS.

- REFER TO (ARCHITECTURAL) DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO (CONSTRUCTION MANAGERS/GENERAL CONTRACTORS/ARCHITECTS) INSTRUCTIONS FOR MORE DETAILS, PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
- PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

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1012 WEST COLUMBIA ST.  
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REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01

SITE # 7008

ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_

DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_

DATE: \_\_\_\_\_

REVISION: \_\_\_\_\_

DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME000  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MARJAR  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
MECHANICAL &  
ELECTRICAL  
COVERSHEET

SHEET NUMBER:

ME000

19 OF 29 SHEETS  
02/07/2020





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SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME200  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 16 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

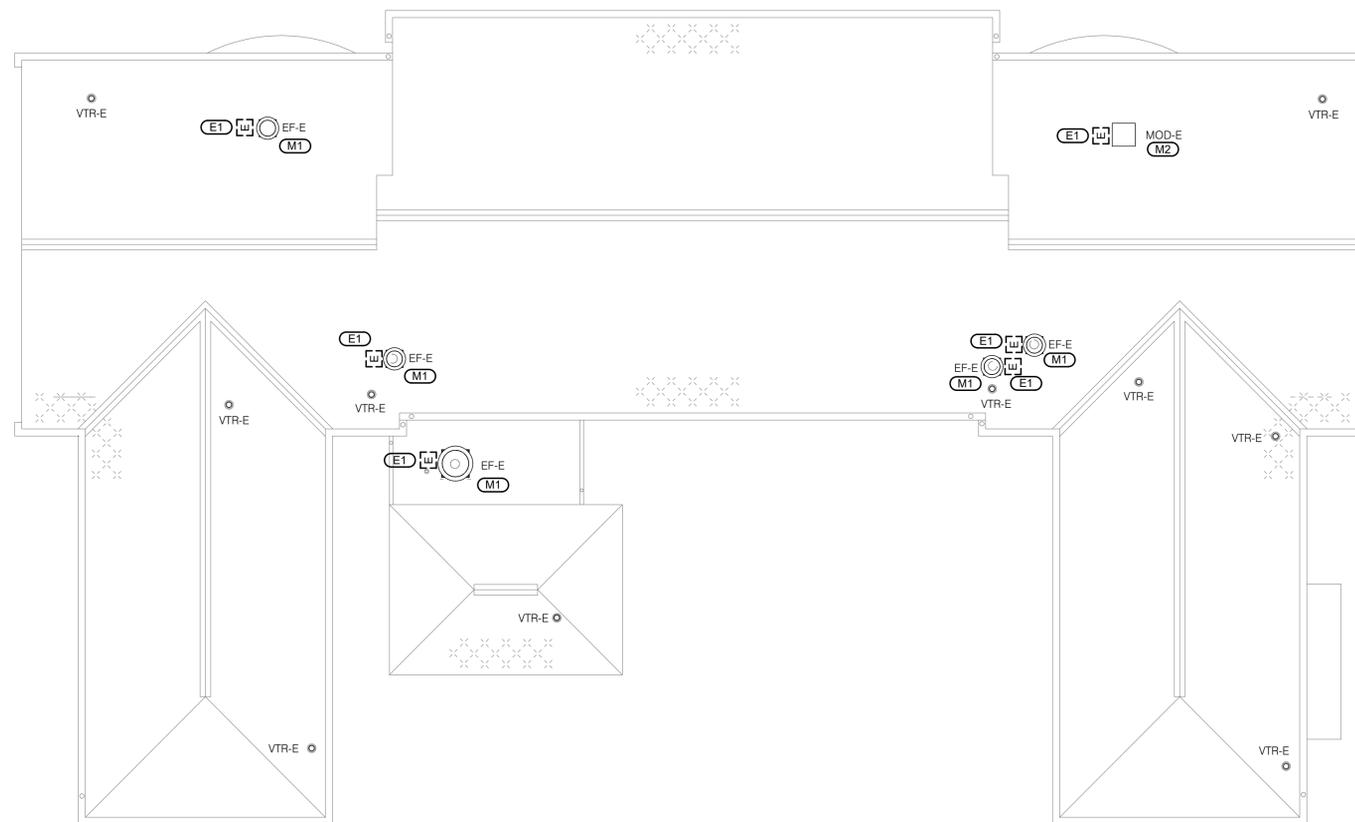
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20 OF 29 SHEETS  
02/07/2020

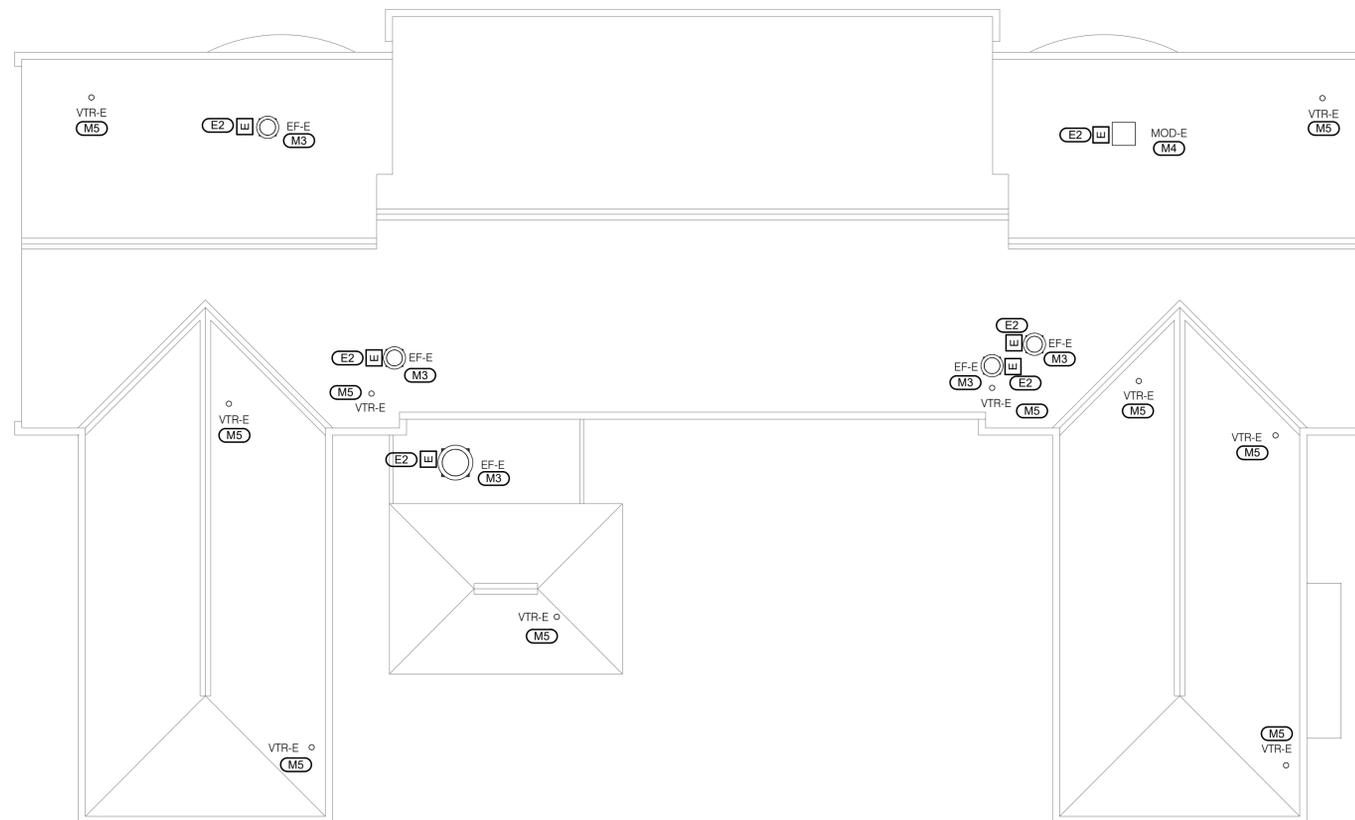
- GENERAL SHEET NOTES:**
1. PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
  2. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.
  3. CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
  4. COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

- MECHANICAL KEYNOTES: (MF)**
1. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
  2. REMOVE EXISTING MOTOR OPERATED DAMPER AND STORE FOR ROOF REPLACEMENT.
  3. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
  4. REINSTALL EXISTING MOTOR OPERATED DAMPER.
  5. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3/ME300 FOR VENT PIPE FLASHING.

- ELECTRICAL KEYNOTES: (E#)**
1. PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.
  2. REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.



**1** BLDG 16 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION  
1/8" = 1'-0"



**2** BLDG 16 ROOF PLAN - MECHANICAL & ELECTRICAL  
1/8" = 1'-0"

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REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: MED201  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 17 ROOF PLAN -  
MECHANICAL &  
ELECTRICAL  
DEMOLITION

SHEET NUMBER:

**MED201**

21 OF 29 SHEETS  
02/07/2020

**GENERAL SHEET NOTES:**

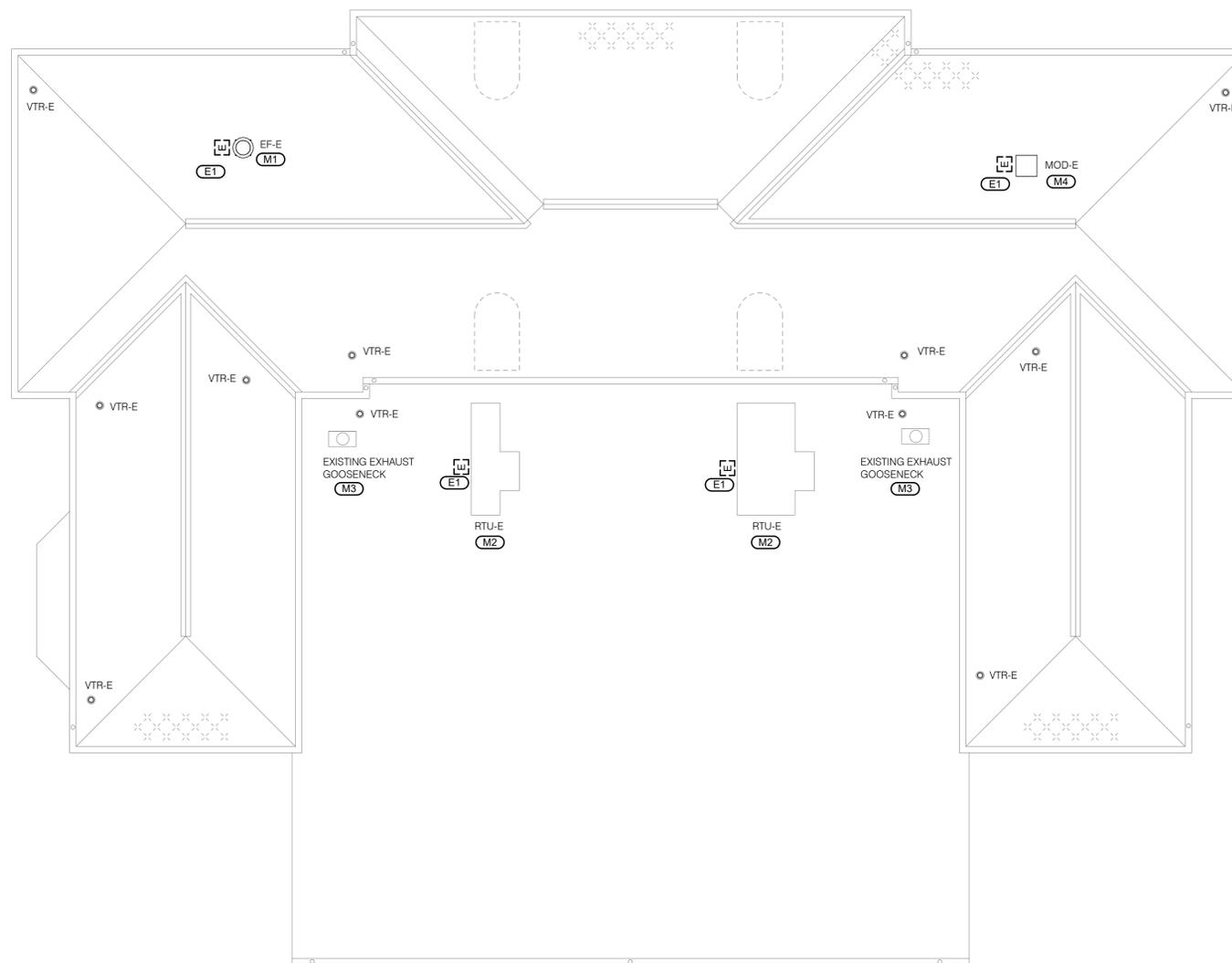
- PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
- CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
- COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

**MECHANICAL KEYNOTES: (M#)**

- REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
- REMOVE EXISTING ROOFTOP UNIT AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT.
- REMOVE EXISTING EXHAUST GOOSENECK BACK TO EXISTING ROOF LEVEL. CONTRACTOR SHALL CONFIRM SIZE OF GOOSENECK PRIOR TO REMOVAL.
- REMOVE EXISTING MOTOR OPERATED DAMPER AND STORE FOR ROOF REPLACEMENT.

**ELECTRICAL KEYNOTES: (E#)**

- PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.



**1 BLDG 17 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION**

1/8" = 1'-0"

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PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME201  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 17 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

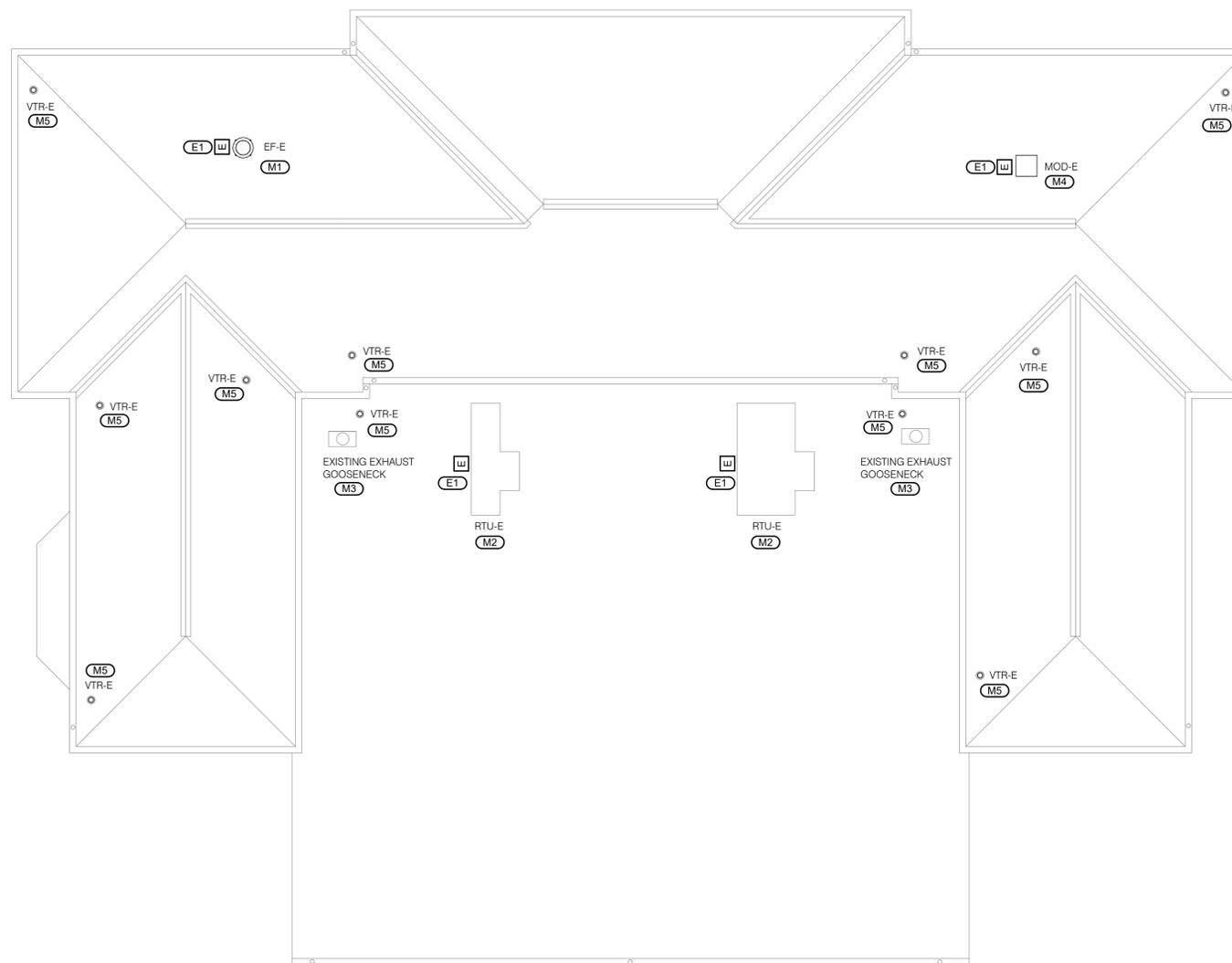
ME201

22 OF 29 SHEETS  
02/07/2020

- GENERAL SHEET NOTES:**
1. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION. CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
  2. COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

- MECHANICAL KEYNOTES: (M#)**
1. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
  2. REINSTALL EXISTING ROOFTOP UNIT ON EXISTING CURB. REFER TO 4ME300 FOR ROOFTOP UNIT DETAIL.
  3. PROVIDE NEW DUCTWORK TO EXTEND GOOSENECK TO TERMINATE AT A MINIMUM OF 18" ABOVE THE NEW FINISHED ROOF LEVEL. CONTRACTOR SHALL MATCH EXISTING SIZE OF GOOSENECK FIELD-VERIFIED PRIOR TO REMOVAL. REFER TO 2ME300 FOR GOOSENECK DETAIL.
  4. REINSTALL EXISTING MOTOR OPERATED DAMPER.
  5. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3ME300 FOR VENT PIPE FLASHING.

- ELECTRICAL KEYNOTES: (E#)**
1. REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.



**1 BLDG 17 ROOF PLAN - MECHANICAL & ELECTRICAL**

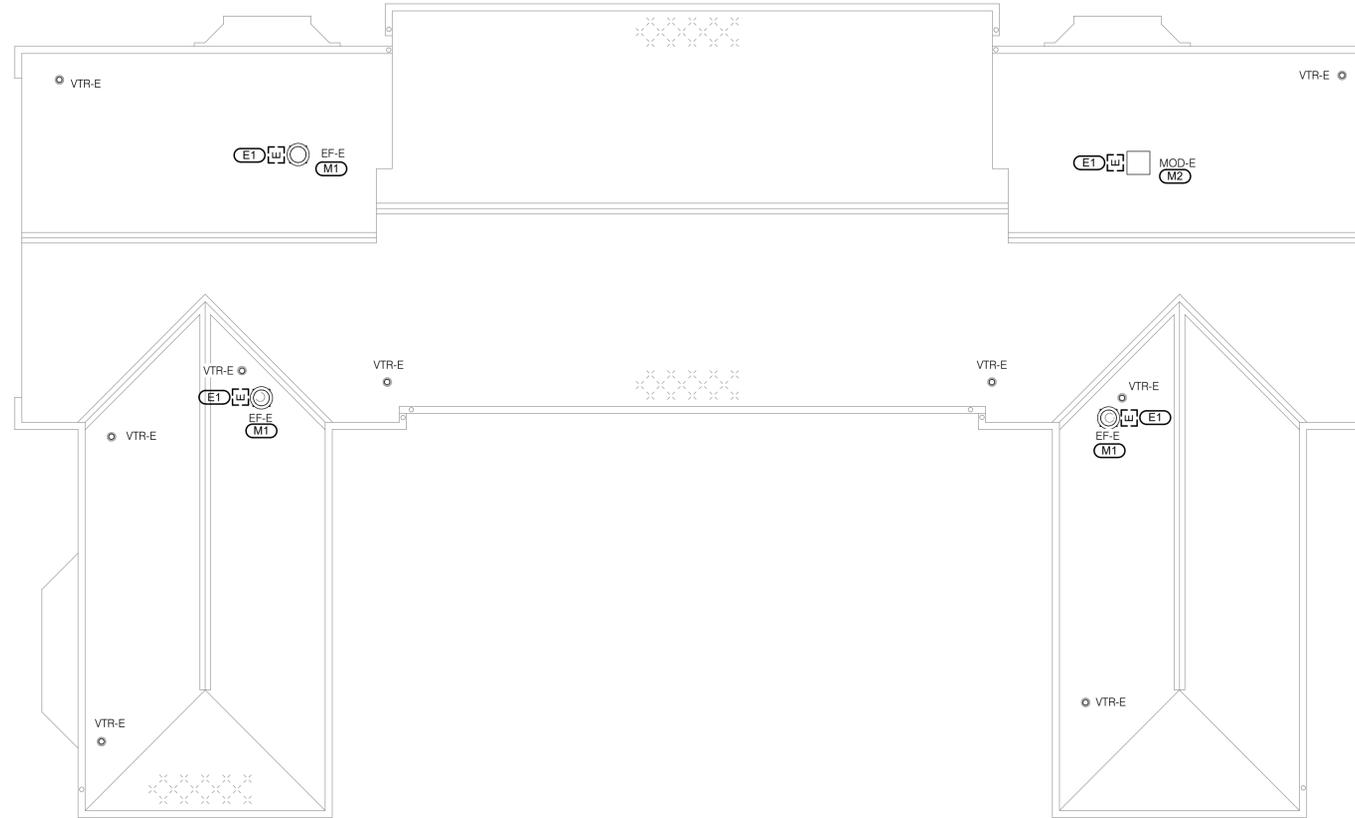
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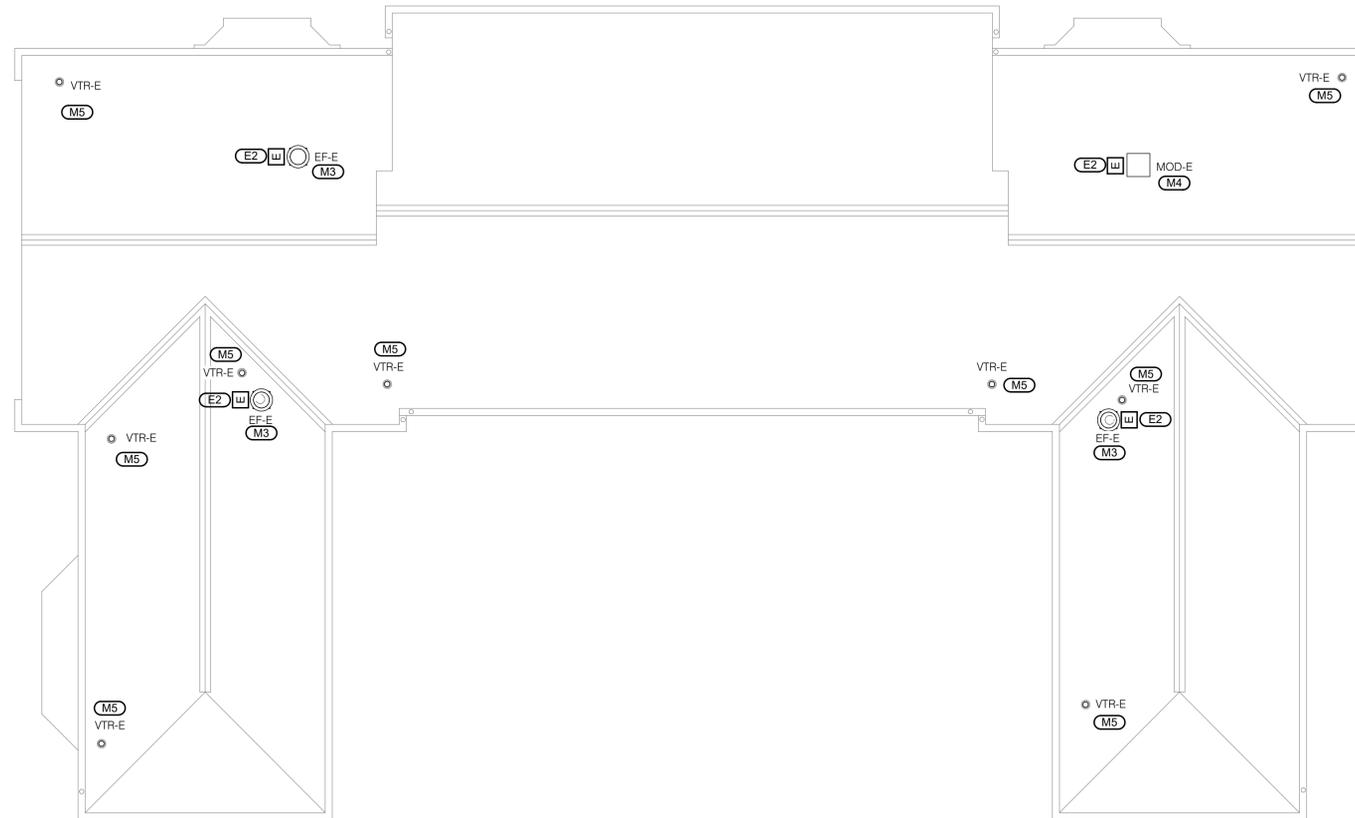
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REFERENCE SCALE IN INCHES



**1** BLDG 18 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION  
1/8" = 1'-0"



**2** BLDG 18 ROOF PLAN - MECHANICAL & ELECTRICAL  
1/8" = 1'-0"

**GENERAL SHEET NOTES:**

1. PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
2. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.
3. CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
4. COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

**MECHANICAL KEYNOTES: (MF)**

1. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
2. REMOVE EXISTING MOTOR OPERATED DAMPER AND STORE FOR ROOF REPLACEMENT.
3. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
4. REINSTALL EXISTING MOTOR OPERATED DAMPER.
5. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3/ME300 FOR VENT PIPE FLASHING.

**ELECTRICAL KEYNOTES: (E#)**

1. PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.
2. REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.

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FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME202  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 18 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

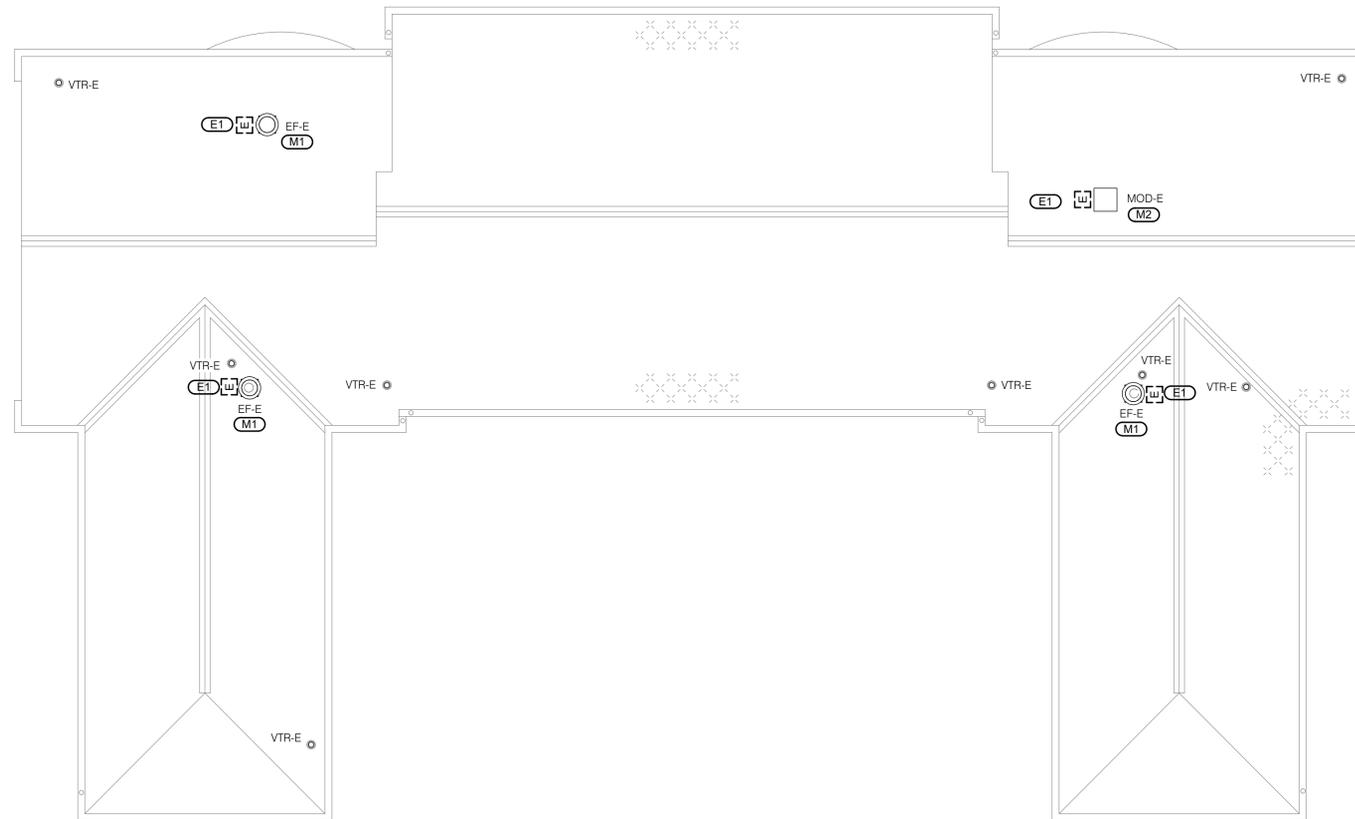
**ME202**

23 OF 29 SHEETS  
02/07/2020

**IMEG** 15 SUNNEN DR, SUITE 104  
SAINT LOUIS, MO 63143  
314.645.1132 FAX: 314.645.1173  
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PROJECT # 19091055.00

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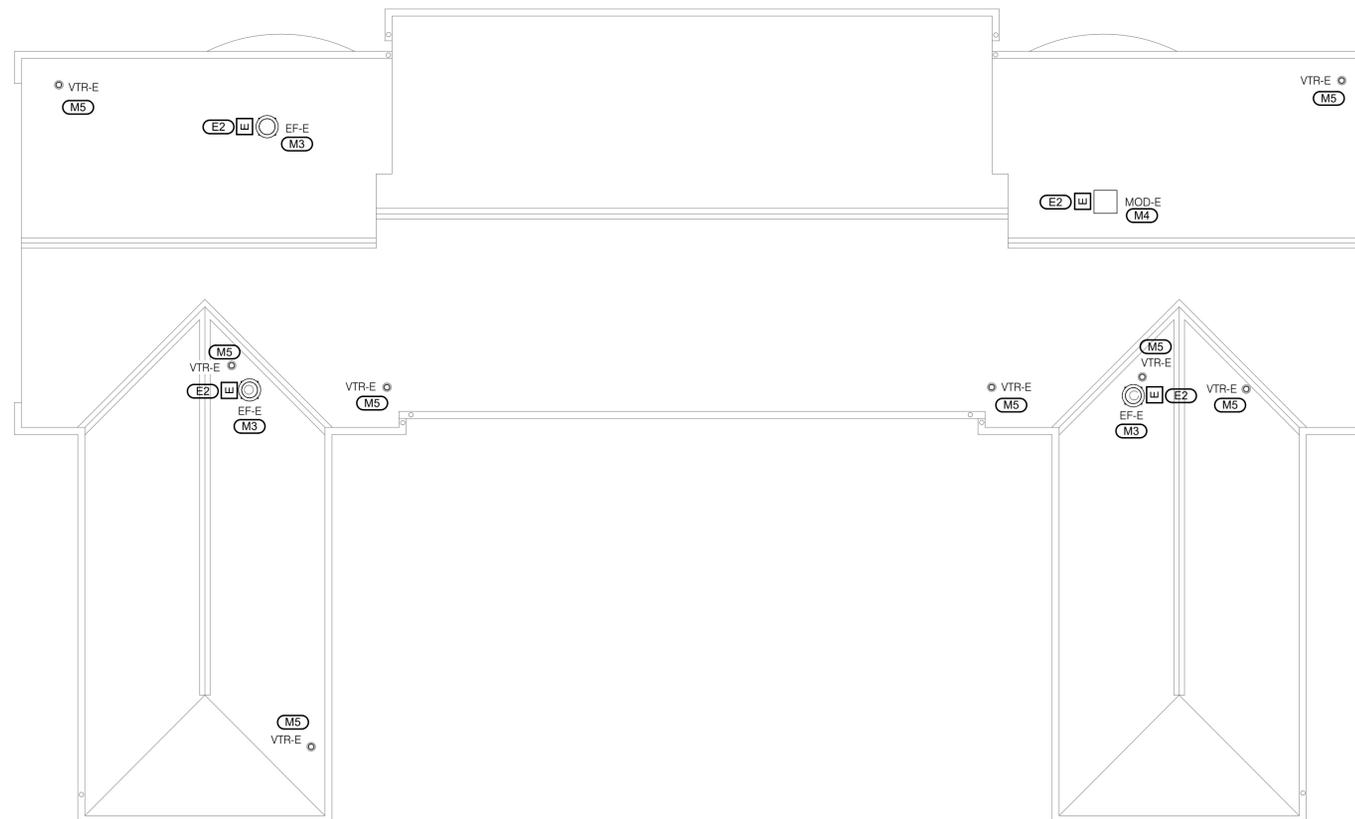
REFERENCE SCALE IN INCHES  
0 1 2 3



1

**BLDG 19 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION**

1/8" = 1'-0"



2

**BLDG 19 ROOF PLAN - MECHANICAL & ELECTRICAL**

1/8" = 1'-0"

**GENERAL SHEET NOTES:**

1. PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
2. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.
3. CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
4. COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

**MECHANICAL KEYNOTES: (MF)**

1. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
2. REMOVE EXISTING MOTOR OPERATED DAMPER AND STORE FOR ROOF REPLACEMENT.
3. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
4. REINSTALL EXISTING MOTOR OPERATED DAMPER.
5. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3/ME300 FOR VENT PIPE FLASHING.

**ELECTRICAL KEYNOTES: (EF)**

1. PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.
2. REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.

STATE OF MISSOURI  
MICHAEL L PARSON,  
GOVERNOR



ARCHITECT

L2e SOLUTIONS  
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ENGINEER

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DEPARTMENT OF  
CORRECTIONS

1012 WEST COLUMBIA ST.  
FARMINGTON, MO 63640

REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01

SITE # 7008

ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME203  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 19 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

**ME203**

24 OF 29 SHEETS  
02/07/2020

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PROJECT # 19091055.00

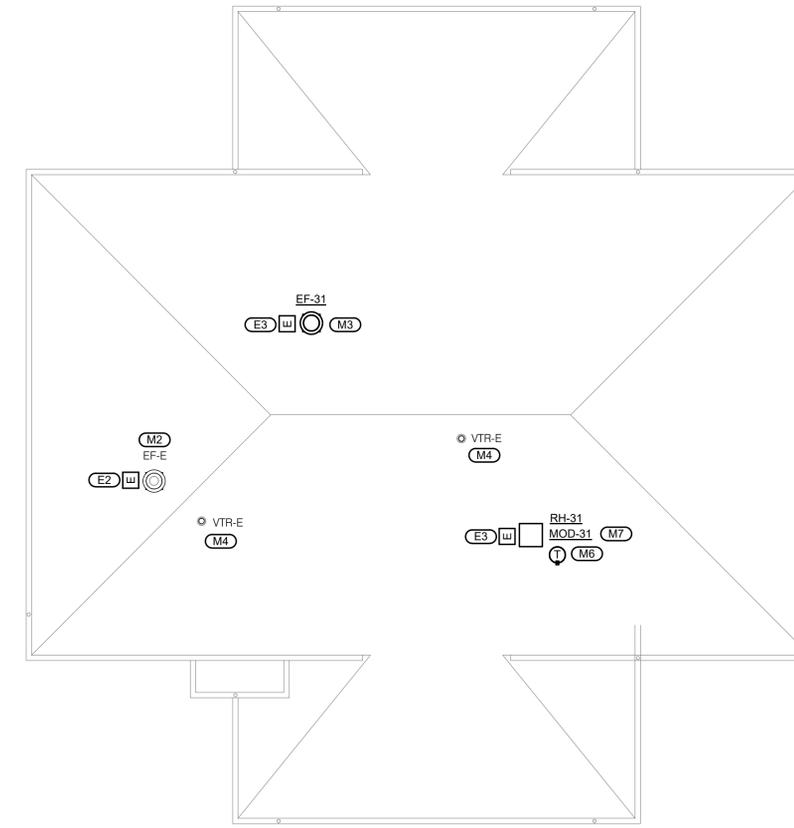
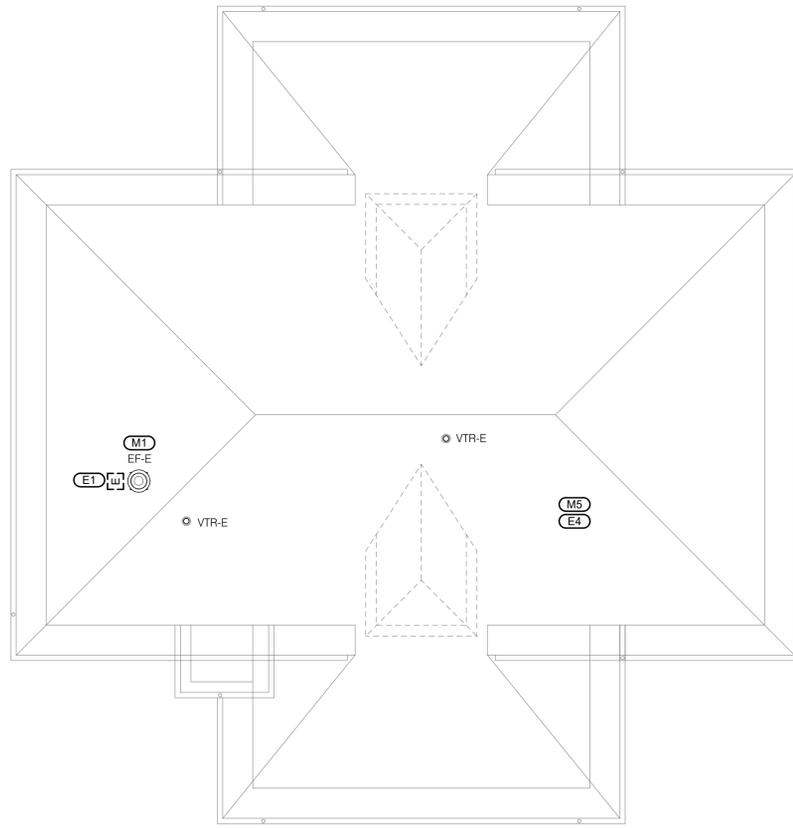
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- GENERAL SHEET NOTES:**
1. PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
  2. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.
  3. CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
  4. COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

- MECHANICAL KEYNOTES: (MF)**
1. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
  2. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
  3. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
  4. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3/ME300 FOR VENT PIPE FLASHING.
  5. REMOVE EXISTING ATTIC FAN IN APPROXIMATELY THIS LOCATION BETWEEN THE ATTIC AND THE FLOOR BELOW. FAN IS MOUNTED ABOVE ATTIC ACCESS. REMOVE ALL SUPPORTS, HANGERS, ACCESSORIES, ETC.
  6. PROVIDE ANALOG TEMPERATURE SENSOR WITH DIAL WITH MINIMUM RANGE OF 80°F - 120°F. REFER TO 5/ME300 DAMPER AND EXHAUST FAN RELAY DETAIL. REFER TO 1/ME500 METAL ROOF MOUNTED HOOD DETAIL FOR MOD AND ROOF HOOD INSTALLATION.
  - 7.

- ELECTRICAL KEYNOTES: (EF)**
1. PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.
  2. REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.
  3. PROVIDE NEW 120V CIRCUIT FROM NEAREST AVAILABLE 120V PANEL. PROVIDE 40A/1P CIRCUIT BREAKER WITHIN THE PANEL AND MATCH EXISTING MANUFACTURER AND SHORT CIRCUIT RATING OF CIRCUIT BREAKERS. CONTRACTOR SHALL PROVIDE 100 FEET OF 2#10, 1#10G IN 3/4" TO FAN AND 2#12, 1#12G IN 3/4" TO DAMPER. COORDINATE ROUTING AND PENETRATIONS WITH THE OWNER AS TO NOT DISTURB OPERATIONS AND PREVENT TAMPERING OF CIRCUIT FROM ANY TENANTS. EF-31 AND MOD-31 WILL SHARE THE SAME CIRCUIT FROM THE 120V PANELBOARD. DISCONNECT EXISTING ATTIC FAN IN APPROXIMATELY THIS LOCATION BETWEEN THE ATTIC AND THE FLOOR BELOW. FAN IS MOUNTED ABOVE ATTIC ACCESS. DEMO CONDUIT AND CONDUCTORS BACK TO SOURCE.
  - 4.



**1 BLDG 31 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION**  
1/8" = 1'-0"

**2 BLDG 31 ROOF PLAN - MECHANICAL & ELECTRICAL**  
1/8" = 1'-0"

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STATE OF MISSOURI  
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CORRECTIONS**

**1012 WEST COLUMBIA ST.  
FARMINGTON, MO 63640**

REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME204  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 31 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

**ME204**

25 OF 29 SHEETS  
02/07/2020



ARCHITECT

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REPLACE ROOF SYSTEMS  
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FARMINGTON, MISSOURI

PROJECT # C1922-01

SITE # 7008

ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME205  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 32 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

ME205

26 OF 29 SHEETS  
02/07/2020

**GENERAL SHEET NOTES:**

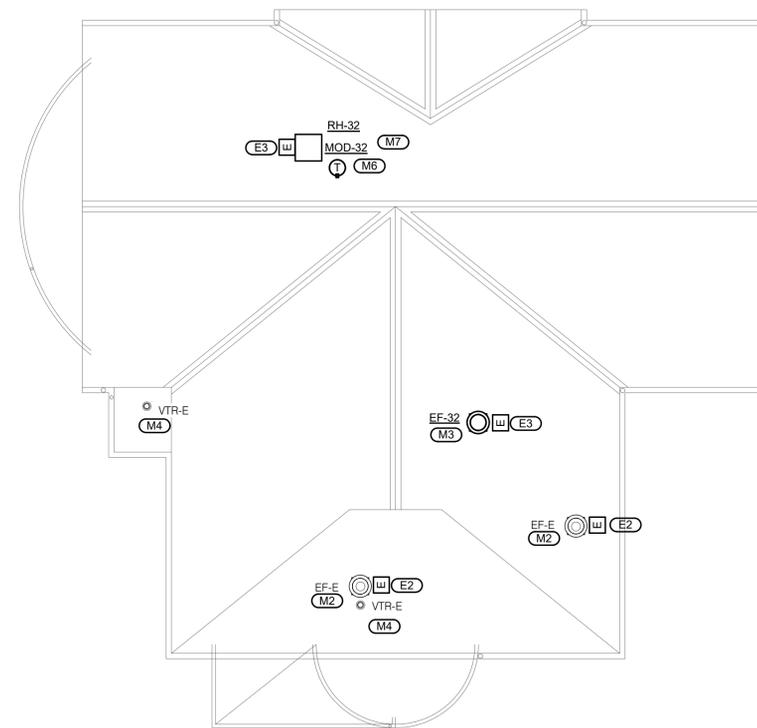
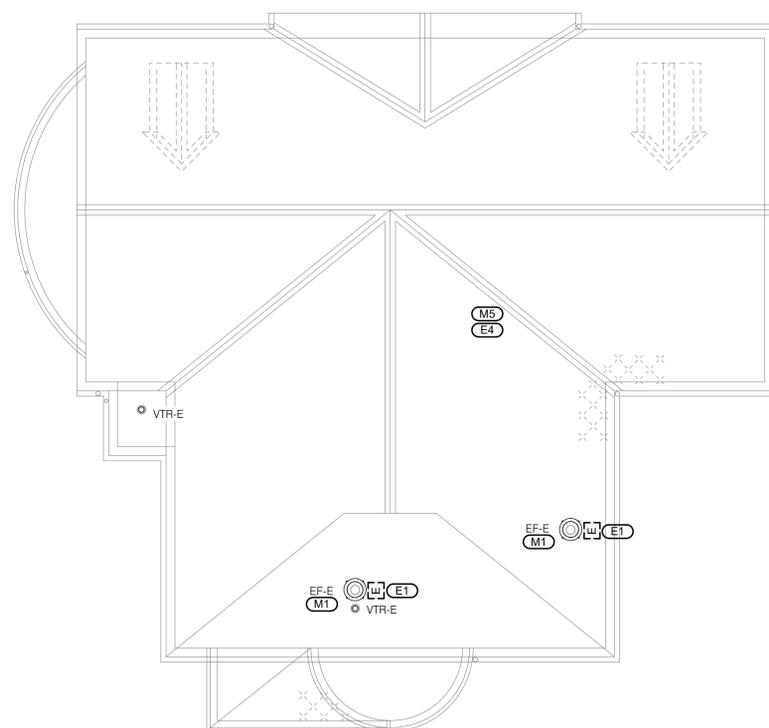
1. PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
2. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.
3. CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
4. COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

**MECHANICAL KEYNOTES: (M#)**

1. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
2. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
3. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
4. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3/ME300 FOR VENT PIPE FLASHING.
5. REMOVE EXISTING ATTIC FAN IN APPROXIMATELY THIS LOCATION BETWEEN THE ATTIC AND THE FLOOR BELOW. FAN IS MOUNTED ABOVE ATTIC ACCESS. REMOVE ALL SUPPORTS, HANGERS, ACCESSORIES, ETC.
6. PROVIDE ANALOG TEMPERATURE SENSOR WITH DIAL WITH MINIMUM RANGE OF 80°F - 120°F. REFER TO 5/ME300 DAMPER AND EXHAUST FAN RELAY DETAIL.
7. REFER TO 1/ME500 METAL ROOF MOUNTED HOOD DETAIL FOR MOD AND ROOF HOOD INSTALLATION.

**ELECTRICAL KEYNOTES: (E#)**

1. PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.
2. REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.
3. PROVIDE NEW 120V CIRCUIT FROM NEAREST AVAILABLE 120V PANEL. PROVIDE 50A/1P CIRCUIT BREAKER WITHIN THE PANEL AND MATCH EXISTING MANUFACTURER AND SHORT CIRCUIT RATING OF CIRCUIT BREAKERS. PROVIDE 100 FEET OF 2#10, 1#10G IN 3/4" TO FAN AND 2#12, 1#12G IN 3/4" TO DAMPER. COORDINATE ROUTING AND PENETRATIONS WITH THE OWNER AS TO NOT DISTURB OPERATIONS AND PREVENT TAMPERING OF CIRCUIT FROM ANY TENANTS. EF-32 AND MOD-32 WILL SHARE THE SAME CIRCUIT FROM THE 120V PANELBOARD.
4. DISCONNECT EXISTING ATTIC FAN IN APPROXIMATELY THIS LOCATION BETWEEN THE ATTIC AND THE FLOOR BELOW. FAN IS MOUNTED ABOVE ATTIC ACCESS. DEMO CONDUIT AND CONDUCTORS BACK TO SOURCE.



1

**BLDG 32 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION**

1/8" = 1'-0"



2

**BLDG 32 ROOF PLAN - MECHANICAL & ELECTRICAL**

1/8" = 1'-0"

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**ARCHITECT**  
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FARMINGTON, MO 63640**

REPLACE ROOF SYSTEMS  
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FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME206  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
BLDG 33 ROOF PLANS -  
MECHANICAL &  
ELECTRICAL

SHEET NUMBER:

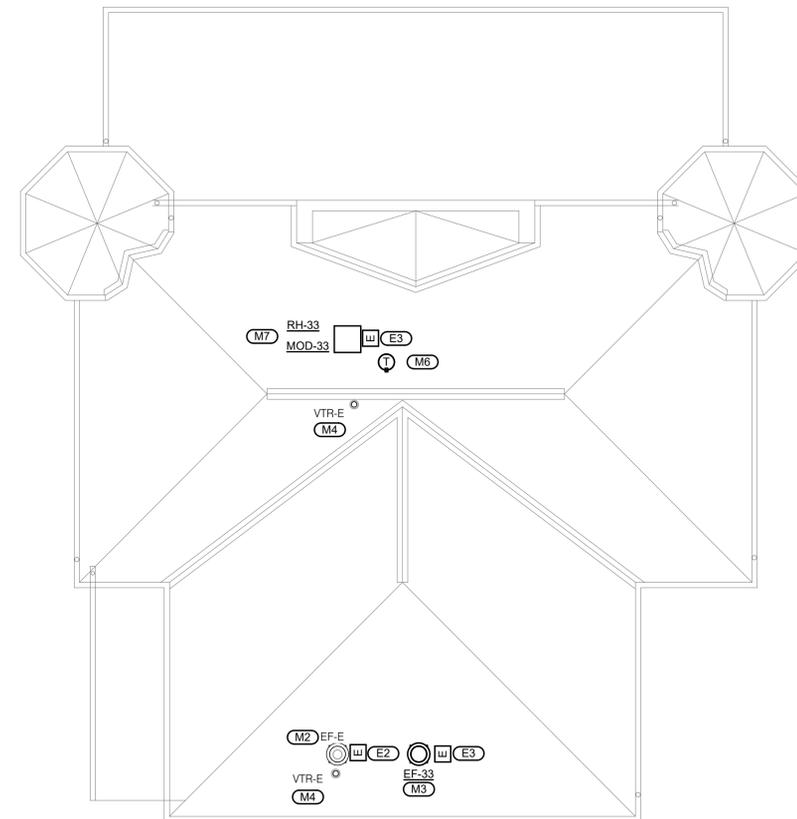
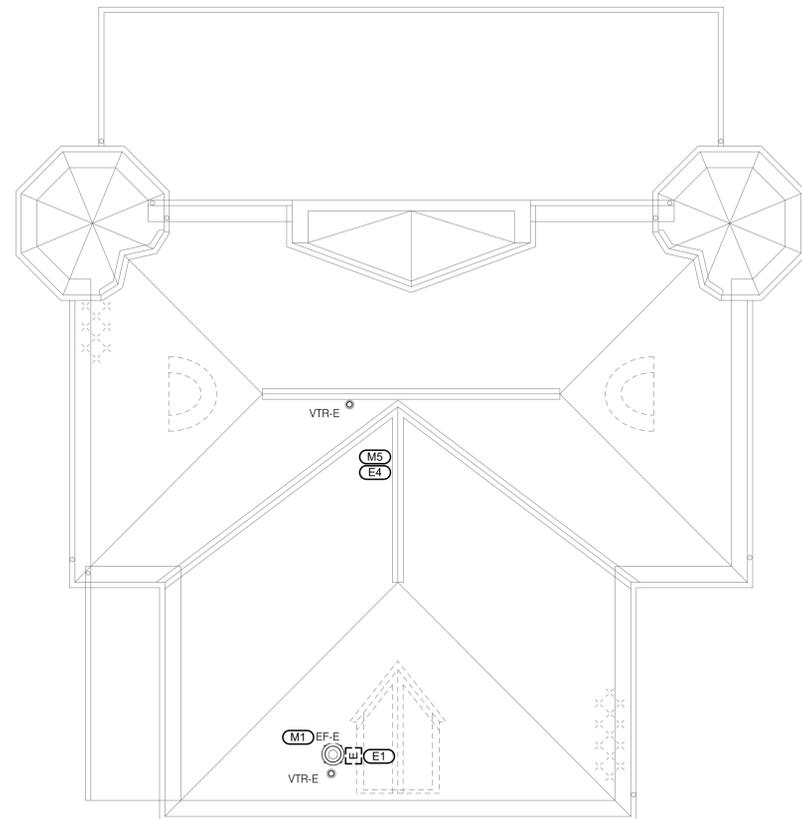
**ME206**

27 OF 29 SHEETS  
02/07/2020

- GENERAL SHEET NOTES:**
- PERFORM A PRE-BALANCE OF ALL EQUIPMENT PRIOR TO DEMO. REFER TO SPECIFICATION SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR MORE INFORMATION.
  - PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.
  - CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND MEANS OF SITE INVESTIGATION. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
  - COORDINATE WITH ALL TRADES PRIOR TO PERFORMING ANY WORK.

- MECHANICAL KEYNOTES: (MF)**
- REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR REMOVAL.
  - REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL. REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
  - REFER TO 1/ME300 FOR ROOF MOUNTED EXHAUST FAN DETAIL.
  - PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 3/ME300 FOR VENT PIPE FLASHING.
  - REMOVE EXISTING ATTIC FAN IN APPROXIMATELY THIS LOCATION BETWEEN THE ATTIC AND THE FLOOR BELOW. FAN IS MOUNTED ABOVE ATTIC ACCESS. REMOVE ALL SUPPORTS, HANGERS, ACCESSORIES, ETC.
  - PROVIDE ANALOG TEMPERATURE SENSOR WITH DIAL WITH MINIMUM RANGE OF 80°F - 120°F. REFER TO 5/ME300 DAMPER AND EXHAUST FAN RELAY DETAIL. REFER TO 1/ME500 METAL ROOF MOUNTED HOOD DETAIL FOR MOD AND ROOF HOOD INSTALLATION.

- ELECTRICAL KEYNOTES: (EF)**
- PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. COORDINATE FINAL TERMINATION WITH MECHANICAL CONTRACTOR.
  - REFEED ELECTRICALLY POWERED MECHANICAL EQUIPMENT.
  - PROVIDE NEW 120V CIRCUIT FROM NEAREST AVAILABLE 120V PANEL. PROVIDE 50A/1P CIRCUIT BREAKER WITHIN THE PANEL AND MATCH EXISTING MANUFACTURER AND SHORT CIRCUIT RATINGS OF CIRCUIT BREAKERS. PROVIDE 100 FEET OF 2#10, 1# 10G IN 3/4" TO FAN AND 2#12, 1#12G IN 3/4" TO DAMPER. COORDINATE ROUTING AND PENETRATIONS WITH THE OWNER AS TO NOT DISTURB OPERATIONS AND PREVENT TAMPERING OF CIRCUIT FROM ANY TENANTS. EF-33 AND MOD-33 WILL SHARE THE SAME CIRCUIT FROM THE 120V PANELBOARD.
  - DISCONNECT EXISTING ATTIC FAN IN APPROXIMATELY THIS LOCATION BETWEEN THE ATTIC AND THE FLOOR BELOW. FAN IS MOUNTED ABOVE ATTIC ACCESS. DEMO CONDUIT AND CONDUCTORS BACK TO SOURCE.



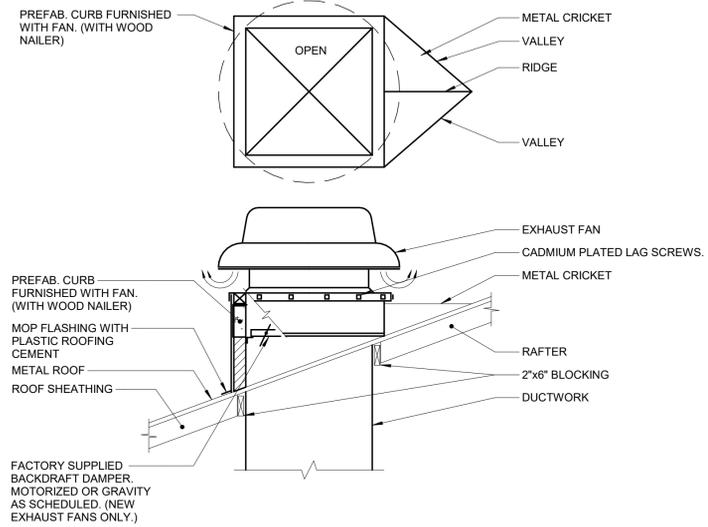
**1 BLDG 33 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION**  
1/8" = 1'-0"

**2 BLDG 33 ROOF PLAN - MECHANICAL & ELECTRICAL**  
1/8" = 1'-0"

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PROJECT # 19091055.00

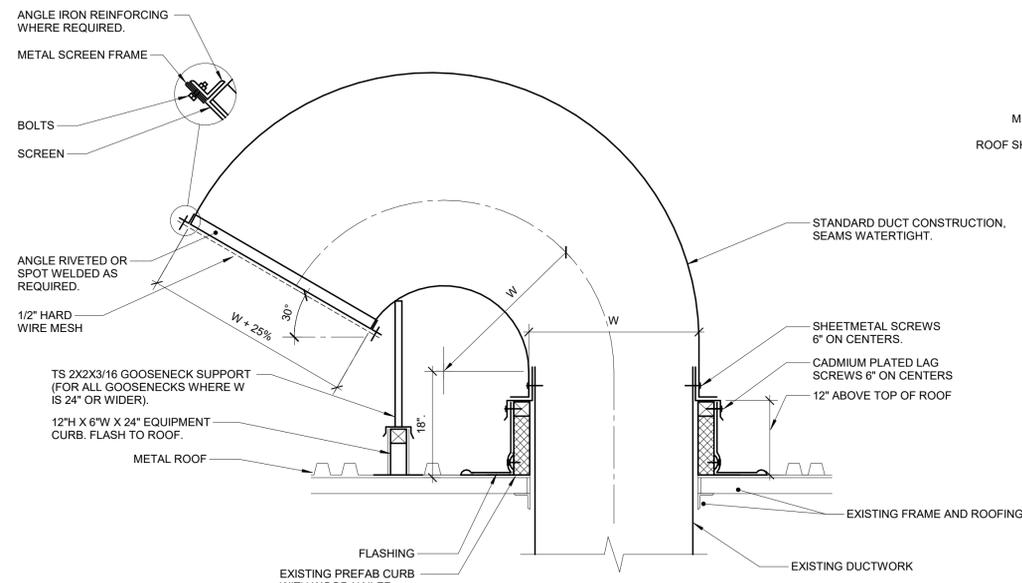
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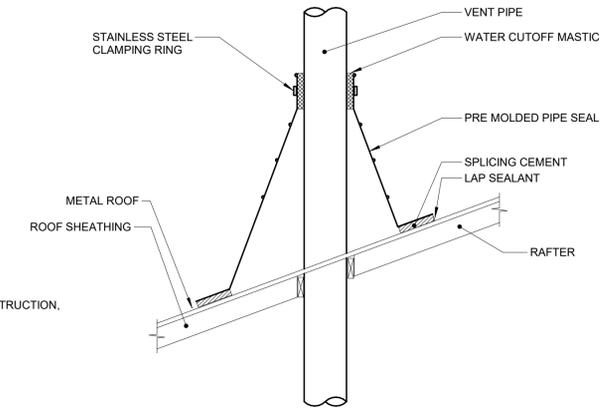
### 1 ROOF MOUNTED EXHAUST FAN

- NO SCALE  
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
  2. VERTICAL SEAMS SHALL BE CUT BACK A MINIMUM OF 2" FROM CRICKET.



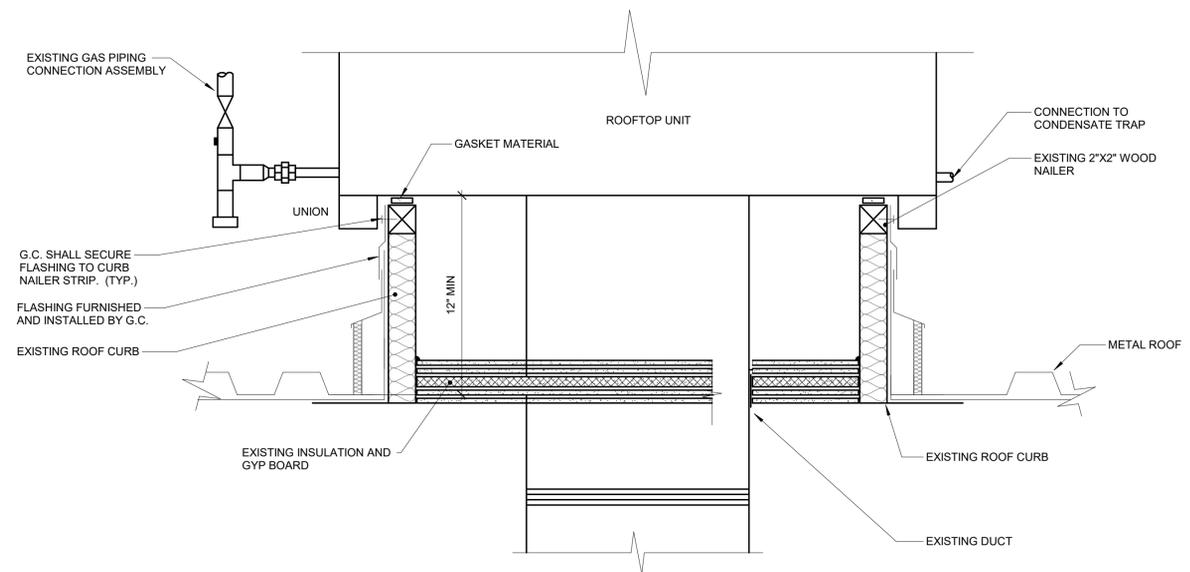
### 2 GOOSENECK DETAIL

- NO SCALE  
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
  2. DO NOT FASTEN CURB FLASHINGS TO ROOF CURB. CURB FLASHING TO MOVE WITH METAL ROOF PANEL SYSTEM DURING THERMAL EXPANSION AND CONTRACTION.



### 3 VENT PIPE FLASHING

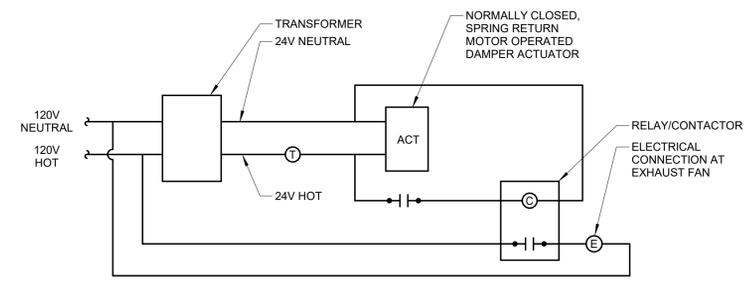
- NO SCALE  
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



### 4 ROOFTOP UNIT DETAIL

- NO SCALE  
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
  2. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12" CLEARANCE ABOVE ROOF DECK.
  3. DO NOT FASTEN CURB FLASHINGS TO ROOF CURB. CURB FLASHING TO MOVE WITH METAL ROOF PANEL SYSTEM DURING THERMAL EXPANSION AND CONTRACTION. ALLOW FOR REQUIRED THERMAL MOVEMENT BETWEEN CURB FLASHING AND ROOF MOUNTED UNIT AT BOTH TOP AND BOTTOM.

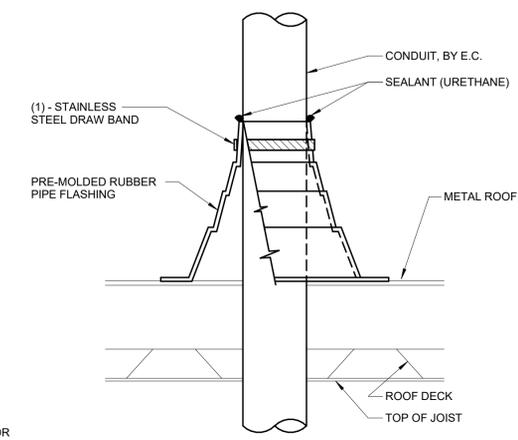
CONTROL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
Ⓢ	THERMOSTAT
Ⓝ	NORMALLY OPEN CONTACT
ACT	ACTUATOR
Ⓞ	RELAY COIL CONTACT



### 5 DAMPER & EXHAUST FAN RELAY

NO SCALE

SEQUENCE OF OPERATION:  
WHEN ROOM TEMPERATURE REACHES 115°F (ADJ.) THE MOTOR OPERATED DAMPER SHALL OPEN AND THE FAN SHALL RUN. WHEN ROOM TEMPERATURE REACHES 110°F (ADJ.) THE FAN SHALL DE-ENERGIZE AND THE MOTOR OPERATED DAMPER SHALL CLOSE.



### 6 CONDUIT ROOF PENETRATION

- NO SCALE  
NOTES:
1. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.
  2. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND ROOFING INSTALLER PRIOR TO INSTALLATION. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY.

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REFERENCE SCALE IN INCHES  
0 1 2 3



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1012 WEST COLUMBIA ST.  
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REPLACE ROOF SYSTEMS  
MULTIPLE ASSETS  
FARMINGTON  
CORRECTIONAL CENTER

FARMINGTON, MISSOURI

PROJECT # C1922-01  
SITE # 7008  
ASSET # 9327008089,  
9327008090, 9327008091, 9327008082  
9327008081, 9327008080, 9327008079

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
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ISSUE DATE: FEBRUARY 7, 2020

CAD DWG FILE: ME300  
DRAWN BY: KATDEN/MASRYA  
CHECKED BY: RUSARN/MASRYA  
DESIGNED BY: KATDEN/MASRYA

SHEET TITLE:  
MECHANICAL &  
ELECTRICAL DETAILS  
& DIAGRAMS

SHEET NUMBER:

ME300

28 OF 29 SHEETS  
02/07/2020

SCHEDULE GENERAL NOTES	
KEY NAME	SCHEDULE GENERAL NOTES
A.	DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY: MFR = MANUFACTURER EC = ELECTRICAL CONTRACTOR MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR
B.	DISCONNECT TYPE: F = FUSED NF = NON-FUSED
C.	CONTROLLER STARTER TYPE: FV = FULL VOLTAGE WYE = WYE-DELTA SS = SOLID STATE (SOFT START) MS = MANUAL STARTER VFD = VARIABLE FREQUENCY DRIVE VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
D.	FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
E.	NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
F.	MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
G.	CURB TYPE: MFR = STANDARD CURB BY MANUFACTURER GC = BY GENERAL CONTRACTOR SAC = SOUND ATTENUATOR CURB

FAN SCHEDULE		ELECTRICAL														MANUFACTURER	MODEL	NOTES		
		DISCONNECT				CONTROLLER/STARTER														
TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	WHEEL DIA. INCHES	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	BACKDRAFT DAMPER TYPE	CURB TYPE (NOTE G)	BHP	MHP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR		
EF-31	BUILDING 31	3500	1.00	18	1222	BELT	17	MOTORIZED	MFR	1.1	1.5	115	1	MFR	F	MFR	FV	10,000	COOK	ACRU D
EF-32	BUILDING 32	4750	1.00	19.5	1247	BELT	20	MOTORIZED	MFR	1.6	2	115	1	MFR	F	MFR	FV	10,000	COOK	ACRU D
EF-33	BUILDING 33	4750	1.00	19.5	1247	BELT	20	MOTORIZED	MFR	1.6	2	115	1	MFR	F	MFR	FV	10,000	COOK	ACRU D

### MOTOR OPERATED DAMPER SCHEDULE

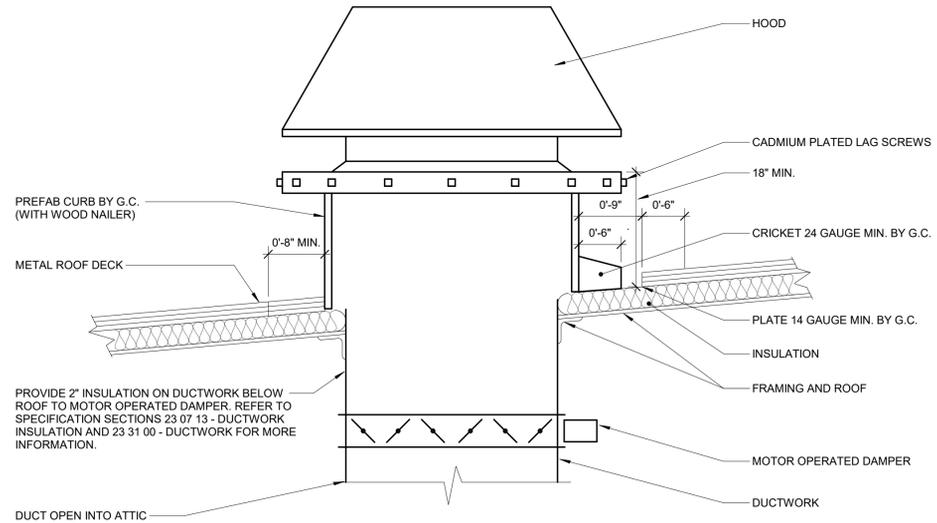
NOTES:  
1. COORDINATE DAMPER ACTUATOR LOCATION AND MOUNTING REQUIREMENTS WITH TEMPERATURE CONTROL CONTRACTOR.

TAG NAME	AREA SERVED	SIZE		CFM		BLADE CONFIGURATION	BLADE ORIENTATION	INSULATED	ACTUATOR TYPE (NOTE 1)	ACTUATOR STYLE	POWER FAILURE POSITION	POSITIVE POSITION FEEDBACK REQUIRED	NOTES
		WIDTH	HEIGHT	MAX.	MIN.								
MOD-31	BUILDING 31	24	24	3500	0	OPPOSED	HORIZONTAL	Yes	ELECTRIC	TWO POSITION	NORMALLY CLOSED (NC)	Yes	
MOD-32	BUILDING 32	28	28	4750	0	OPPOSED	HORIZONTAL	Yes	ELECTRIC	TWO POSITION	NORMALLY CLOSED (NC)	Yes	
MOD-33	BUILDING 33	28	28	4750	0	OPPOSED	HORIZONTAL	Yes	ELECTRIC	TWO POSITION	NORMALLY CLOSED (NC)	Yes	

### HOOD & LOUVERED PENTHOUSE SCHEDULE

NOTES:  
1. PROVIDE INSULATED ROOF CURB SLOPED TO MATCH ROOF SLOPE.  
2. PROVIDE INTEGRAL BIRDSCREEN.

TAG NAME	AREA SERVED	CFM	THROAT SIZE		THROAT VELOCITY (FT/MIN)	STATIC PRESSURE DROP (IN WC)	FREE AREA (FT <sup>2</sup> )	CONFIGURATION	DAMPER TYPE	CURB TYPE (NOTE A)	MAX. DIMENSIONS (IN)			WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
			WIDTH	LENGTH							LENGTH	WIDTH	HEIGHT				
RH-31	BUILDING 31	3500	24	24	875	0.13	4	HOODED	MOD-31	MFR	39	52	21	82	GREENHECK	FGI	NOTES 1 & 2
RH-32	BUILDING 32	4750	28	28	875	0.13	5.4	HOODED	MOD-32	MFR	51	53	21	104	GREENHECK	FGI	NOTES 1 & 2
RH-33	BUILDING 33	4750	28	28	875	0.13	5.4	HOODED	MOD-33	MFR	51	53	21	104	GREENHECK	FGI	NOTES 1 & 2



**1 METAL ROOF MOUNTED HOOD**  
NO SCALE

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SCHEDULES

SHEET NUMBER:

**ME500**

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