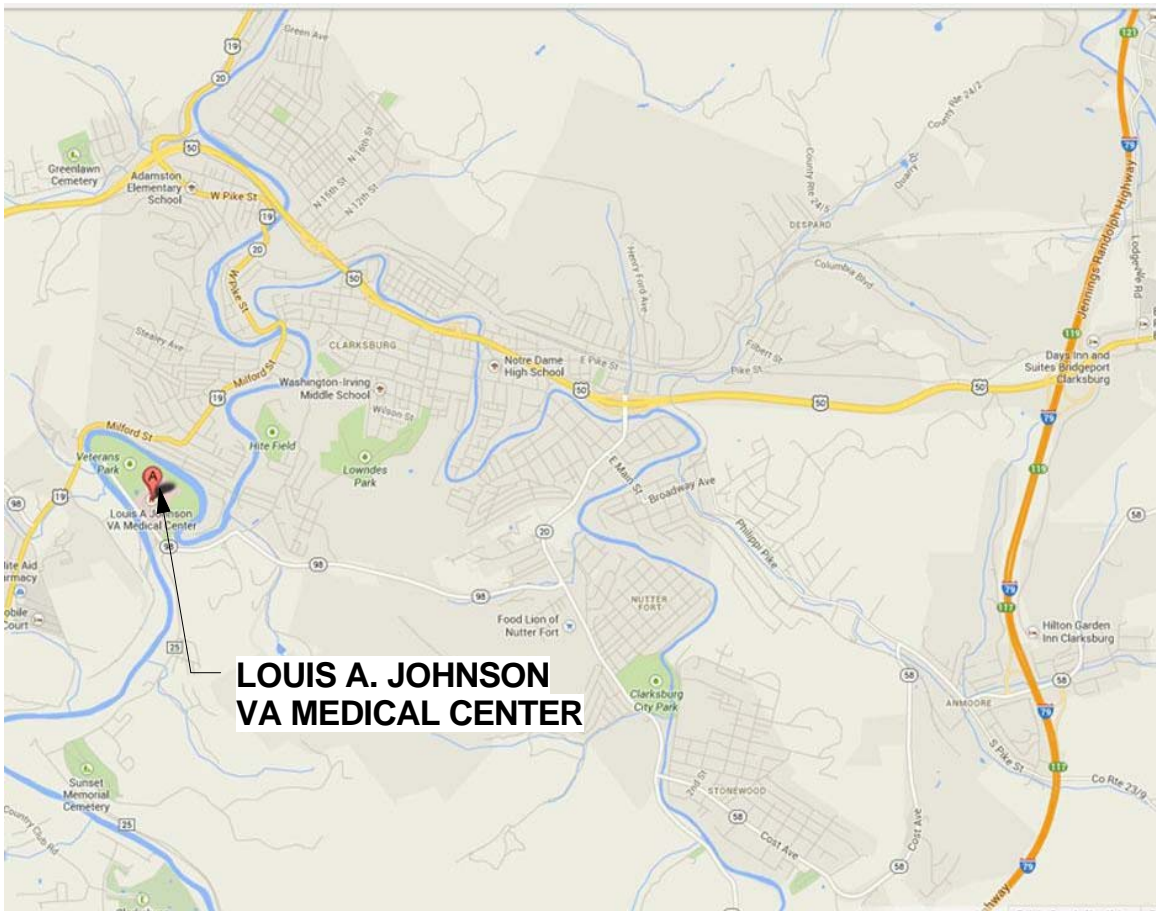


Sheet List	
Sheet Number	Sheet Name
GENERAL	
GI001	COVER SHEET
GI100	LEGENDS & ABBREVIATIONS
ARCHITECTURAL	
AS100	SITE PLAN
AS101	LEVEL 1 & 2 ROOF PLANS
AS102	LEVEL 3 ROOF PLANS
AS103	LEVEL 4 ROOF PLANS
AS104	LEVEL 6 & 7 ROOF PLANS
AS500	TYPICAL DETAILS
AS501	TYPICAL DETAILS

LOUIS A. JOHNSON VA MEDICAL CENTER

REPLACE ROOF MAIN BUILDING AND CLINICAL  
ADDITION

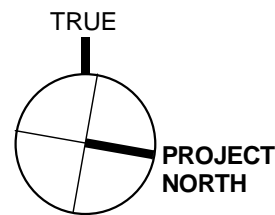
BID DOCUMENTS



REGION PLAN, CLARKSBURG WV.



LOCATION PLAN



OWNER

LOUIS A. JOHNSON VA  
MEDICAL CENTER

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Contracting Officer

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AECOM

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ARCHITECT/ENGINEERS:

ESTIMATOR



ROOFING CONSULTANT



ARCHITECT  
Architect, Structural Engineer, Civil Engineer



BID DOCUMENTS

Drawing Title  
COVER SHEET

Project Title  
REPLACE ROOF MAIN  
BUILDING AND  
CLINICAL ADDITION

Project Number  
13.1065.03

Building Number  
BLG. 1 + ADD.

OFFICE OF  
FACILITIES  
MANAGEMENT

Approved for Design Concept:  
FACILITY MANAGEMENT  
DIVISION MANAGER

Location  
LOUIS A. JOHNSON VAMC

Date  
04-07-2016

Checked By:  
STW

Drawn By:  
ARO

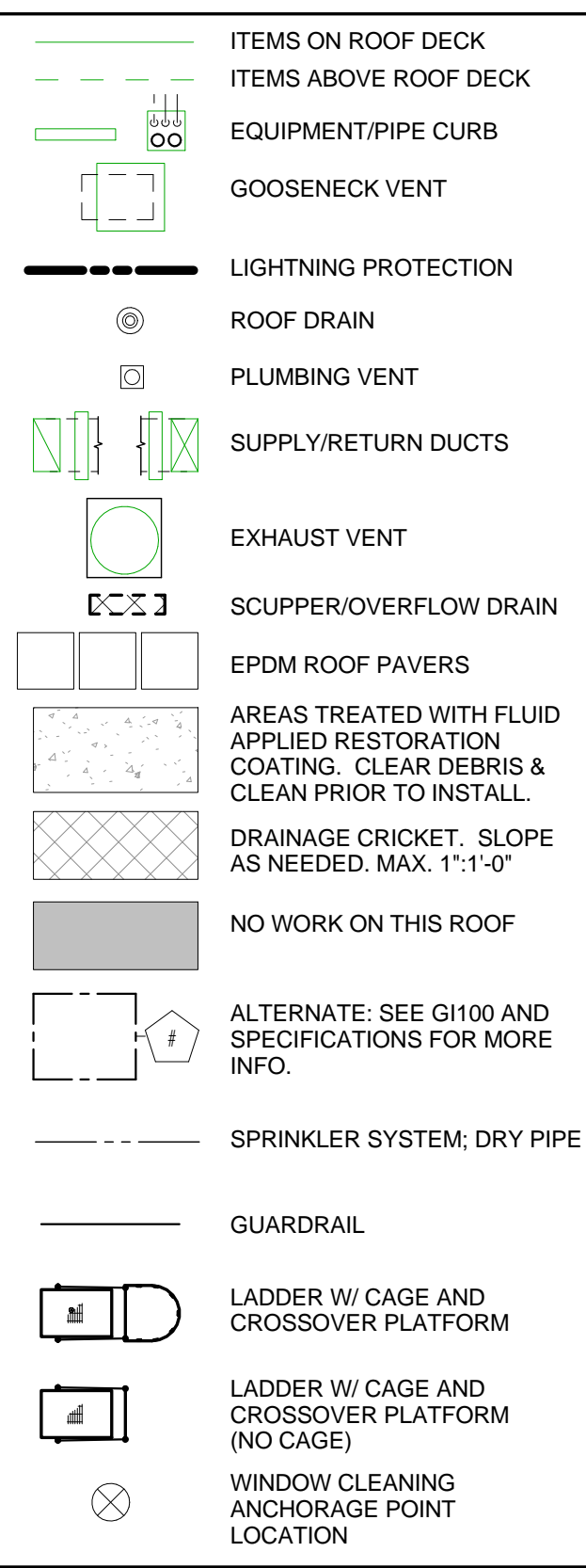
Drawing Number  
GI001

VA Project Number  
540-13-308





# ROOF DRAWING SYMBOLS

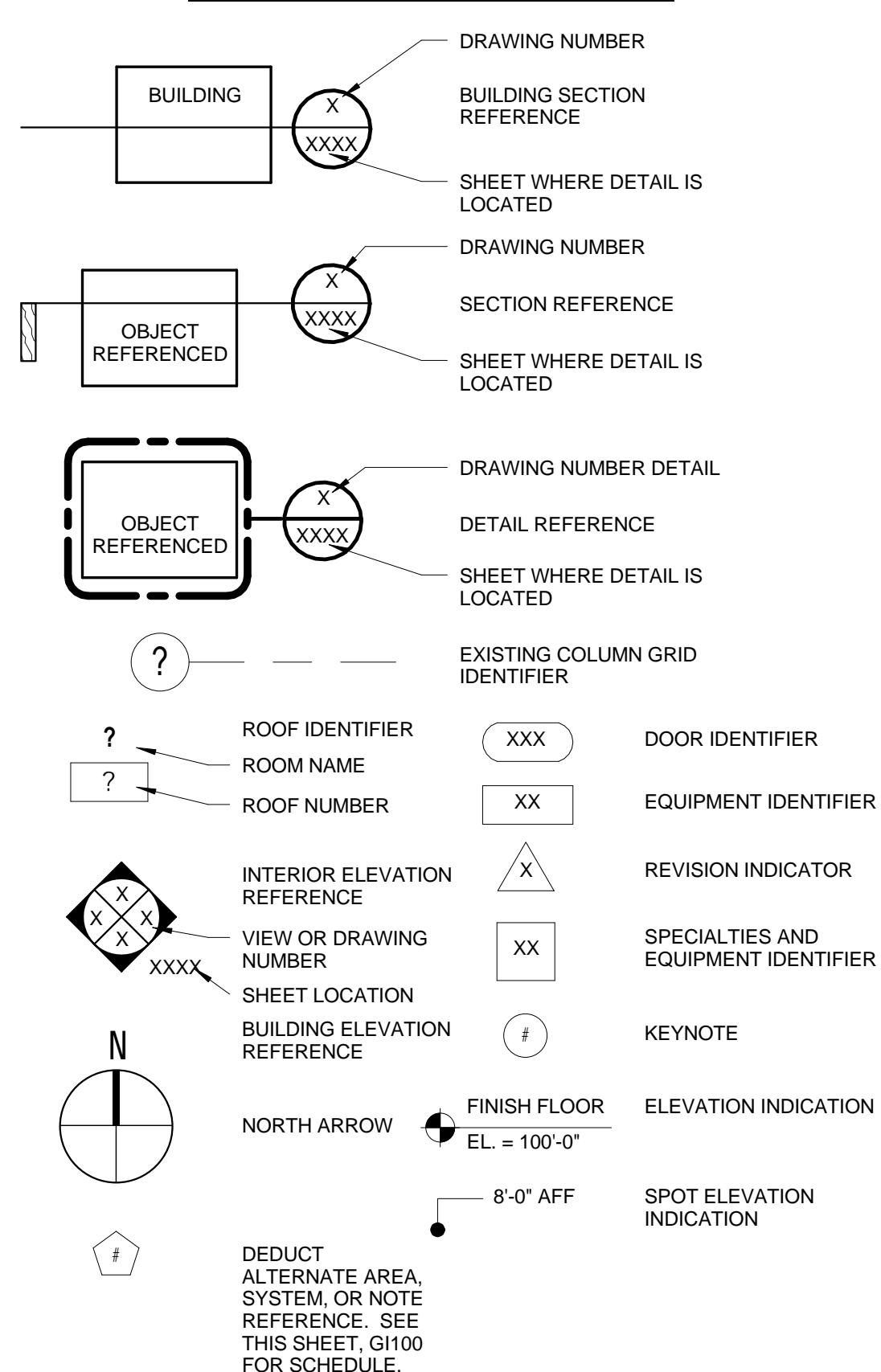


A/C	AIR CONDITIONING	GA/LV	GALVANIZED	QA	QUALITY ASSURANCE
ADA	AMERICANS WITH DISABILITIES ACT	GC	GENERAL CONTRACTOR	R	R-VALUE (INSULATION), RADIUS, RISER
AE	ARCHITECT AND ENGINEERS	GD	GROUND	RD	ROOF DRAIN
AFG	ABOVE FINISHED GRADE	GT	GROUT	RE	REFERENCE
AHU	AIR HANDLING UNIT	GYP BD	GYP SUM BOARD	REBAR	REINFORCING BAR
ALT	ALTERNATIVE	HAZ MAT	HAZARDOUS MATERIALS	REIN	REINFORCED
ALUM	ALUMINUM	HB	HOSE BIB	REOD	REQUIRED
ANOD	ANODIZED	HDR	HEADER	REV	REVISION
APPROX	APPROXIMATE	HQ	HARDWARE	RH	ROUGH
ARCH	ARCHITECTURAL	HOT	HOT	RO	ROUGH OPENING
BD	BOARD	HM	HOLLOW METAL	SB	SPLASHBLOCK
BLDG	BUILDING	HORIZ	HORIZONTAL	SC	SEALED CONCRETE, SOLID CORE
BLKG	BLOCKING	HR	HOUR, HANDRAIL	SCHD	SCHEDULE
BM	BEAM	HT	HEIGHT	SCUPPER	SCUPPER
BO	BOTTOM OF	HTG	HEATING, VENTILATING	SECT	SECTION
BRG	BEARING	HVAC	HVAC	SECT	SECTION
CF	CUBIC FEET	IBC	INTERNATIONAL BUILDING CODE	SECT	SECTION
C & G	CURB & GUTTER	INCH	INCH	SF	SQUARE FOOT
CJ	CORRUGATED JOINT	INCAN	INCANDESCENT	SHT	SHEET
CMP	CENTERLINE	INT	INTERIOR	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATION	SLV	SLOPE
CO	CLEANOUT(S)	INT	INTERIOR	SLV	SHORT LEG VERTICAL
COL	COLUMN	INV	INVERT	SPCS	SPECIFICATIONS
CONC	CONCRETE	ITG	INSULATED TEMPERED GLASS	SS	SQUARE
CONT	CONTINUOUS	JT	JUNCTION BOX	STD	STANDARD
COORD	COORDINATE	JOINT	JOINT	STL	STEEL
COR	CONTRACTING OFFICER	LB(S) #	LONG POUND(S)	STRUC	STRUCTURAL
CRS	CURB	LF	LINEAL FEET	SYM	SYMMETRICAL
CS	CAST STONE	LLV	LONG LEG VERTICAL	SYS	SYSTEM
CSB	CONCRETE SPLASH BLOCK	LT	LOUVER	T&B	TOP AND BOTTOM
CTR	CENTER	LVR	LOUVER	T&G	TONGUE AND GROOVE
CU FT	CUBIC FEET	MAX	MAXIMUM	T&D	TO BE DETERMINED
DEG	DEGREE	MECH	MECHANICAL	TEMP	TEMPERATURE
DEMO	DEMOLITION	MFR	MANUFACTURER	THRU	THROUGH
DET	DETAIL	MIN	MINIMUM	TO	TOP OF
DIA	DIAMETER	MISC	MISCELLANEOUS	TCC	TOP OF CONCRETE
DIAG	DIAGONAL	N	NORTH	TOM	TOP OF MASONRY
DIV	DIVISION	NA	NOT APPLICABLE	TOS	TOP OF STEEL
DN	DOWN	NIC	NOT IN CONTRACT	TOW	TOP OF WALL
DOOR	DOOR	NO	NUMBER	TYP	TYPICAL
DS	DOWNSPOUT	NOM	NOMINAL	UL	UNDERWRITERS LABORATORY
DWG	DRAWING	NTS	NOT TO SCALE	UNFIN	UNFINISHED
E	EAST	OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
EA	EACH	OC	OUTSIDE DIAMETER	VERT	VERTICAL
EF	EXISTING	OF	OWNER FURNISHED	VIF	VERIFY IN FIELD
EJ	EXPANSION JOINT	OFI	OWNER FURNISHED	VTR	VENT THROUGH ROOF
ELEC	ELECTRICAL	OP	OPPOSITE HAND	W/	WITH
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	ORD	OVERFLOW ROOF DRAIN	WO	WITHOUT
EQ	EQUAL	OH	OPPOSITE HAND	WD	WOOD
EQUIP	EQUIPMENT	OP	OPPOSITE HAND	WF	WIDE FLANGE
EST	ESTIMATED	ORD	OVERFLOW ROOF DRAIN	WH	WATER HEATER
EXH	EXHAUST	P	PLASTIC	WR	WASTE RECEPTACLE
EXIST	EXISTING	PL	PLATE	WS	WATER STOP
EXT	EXTERIOR	PAIR	PAIR	WT	WEIGHT
FA	FIRE ALARM	PREFAB	PREFABRICATED	WWF	WELED WIRE FABRIC
FCU	FAN COIL UNIT	PROP	PROPERTY		
FD	FLOOR DRAIN	PROP	POUNDS PER SQUARE FOOT		
FIXT	FIXTURE	PSF	POUNDS PER SQUARE INCH		
FL	FLOOR LINE	PSI	POUNDS PER SQUARE INCH		
FR	FIRE RATED	PT CONC	POST-TENSIONED CONCRETE		
FSP	FIRE STANDPIPE	PTD	PAPER TOWEL DISPENSER		
FT	FOOT / FEET	PTL	PORCELAIN TILE		
FV	FIRE VALVE CABINET	PVC	POLYVINYL CHLORIDE		

## ARCHITECTURAL ABBREVIATIONS

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DIA	DIAMETER	MISC	MISCELLANEOUS	TCC	TOP OF CONCRETE
DIAG	DIAGONAL	N	NORTH	TOM	TOP OF MASONRY
DIV	DIVISION	NA	NOT APPLICABLE	TOS	TOP OF STEEL
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DOOR	DOOR	NO	NUMBER	TYP	TYPICAL
DS	DOWNSPOUT	NOM	NOMINAL	UL	UNDERWRITERS LABORATORY
DWG	DRAWING	NTS	NOT TO SCALE	UNFIN	UNFINISHED
E	EAST	OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
EA	EACH	OC	OUTSIDE DIAMETER	VERT	VERTICAL
EF	EXISTING	OF	OWNER FURNISHED	VIF	VERIFY IN FIELD
EJ	EXPANSION JOINT	OFI	OWNER FURNISHED	VTR	VENT THROUGH ROOF
ELEC	ELECTRICAL	OP	OPPOSITE HAND	W/	WITH
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	ORD	OVERFLOW ROOF DRAIN	WO	WITHOUT
EQ	EQUAL	OH	OPPOSITE HAND	WD	WOOD
EQUIP	EQUIPMENT	OP	OPPOSITE HAND	WF	WIDE FLANGE
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## ARCHITECTURAL DRAWING SYMBOLS



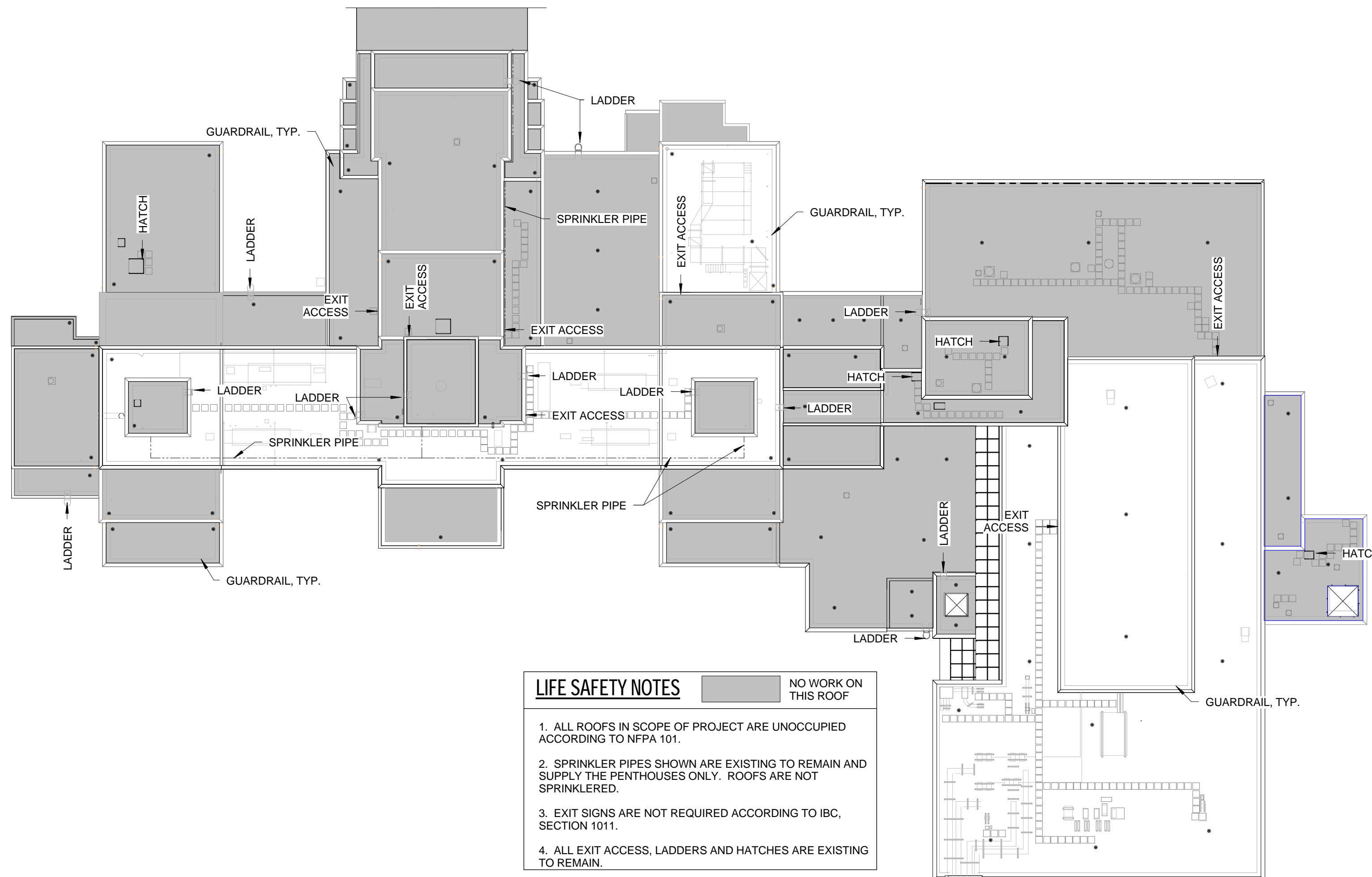
## GENERAL REQUIREMENTS

- ATTENTION ALL USERS OF THESE DRAWINGS. GENERAL CONTRACTORS, SUB CONTRACTORS, MANUFACTURERS, SUPPLIERS CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.
- DO NOT PRESUME THAT YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.
- THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR CONVENIENCE. THE GENERAL CONTRACTOR HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED. TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT CONSIDER THAT THERE IS ONE CUSTOMARY PLACE TO LOCATE ANY PART OF THE DRAWINGS, OR OF THE ENTIRE SET OF DOCUMENTS WAS NOT REVIEWED. THE SEPARATIONS USED IN NO WAY THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE WORK SHALL BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.
- THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY. ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION.
- IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OF GREATER QUANTITY OF WORK.
- USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK. FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL, NOTIFY THE ARCHITECT OF ANY DISCREPANCY DISCOVERED.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
- MECHANICAL AND ELECTRICAL INFORMATION ON DRAWINGS REFLECT INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, AND SUCH.

- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.
- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODES AS NOTED ON THIS SHEET, G100.
- CONTRACTOR SHALL SUBMIT CONFORMATION OF ORDERED MATERIALS OR ITEMS NECESSARY TO COMPLETE THE PROJECT WITH PROTECTED DELIVERY DATE GREATER THAN FOUR WEEKS.
- ALL SUBCONTRACTORS SHALL SUBMIT SHOP DRAWINGS AS REQUIRED FOR APPROVAL PRIOR TO COMMENCING ANY WORK.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT AMONG ALL TRADES.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- PROVIDE SEALANT AT ALL JOINTS OR CRACKS THAT OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, OR CEILINGS, SHALL BE PROTECTED, SEALED OR DAMPERED USING ONLY U.L. AND/OR I.C.B.O. APPROVED METHODS, MATERIALS AND INSTALLATION.
- CONTRACTOR SHALL TAKE CARE TO MAINTAIN EXISTING FIRE PROTECTION SYSTEMS, RE-ACE FIRE-PROOFING AND SEALANTS TO ORIGINAL STATE WHERE DISTURBED BY CONSTRUCTION AND WHERE CONNECTIONS OF NEW CONSTRUCTION MUST INTERFACE WITH EXISTING PROTECTED STRUCTURAL MEMBERS OR BUILDING COMPONENTS.
- SCRAPE AND OTHERWISE PROPERLY PREPARE, THEN PAINT ALL EXPOSED STEEL INSTALLED THROUGH THE COURSE OF THE WORK UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING REQUIRED DURING CONSTRUCTION.
- TYPICAL DETAILS MAY NOT NECESSARILY BE REFERENCED ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.
- ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.
- SECURITY AND SAFETY ARE THE CONTRACTOR'S RESPONSIBILITY. COORDINATE WITH CONTRACTING OFFICER'S REPRESENTATIVE.

## ALTERNATES, DEDUCT

- ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSTALLATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN AREA INDICATED AS ALTERNATE NO. 1, ON LEVEL 6.
- ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSTALLATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN AREA INDICATED AS ALTERNATE NO. 2, ON LEVEL 6.
- ELIMINATE FLUID APPLIED URETHANE RESTORATION TREATMENT AS INDICATED AS ALTERNATE NO. 3, ON LEVEL 4.
- ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSULATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN INDICATED AREA AS ALTERNATE NO. 4, ON LEVEL 2. ELIMINATE DEMOLITION & REMOVAL OF ANY ABANDONED ROOF CURBS, ABANDONED ROOF HATCHES, AND ABANDONED LOUVERS INDICATED AS PART OF THE WORK. ABANDONED ROOF CURBS, ROOF HATCHES, AND ABANDONED LOUVERS WILL REMAIN AS MODIFIED OR COVERED BY ROOFING MEMBRANE REPLACEMENT/INSTALLATION.



**LIFE SAFETY NOTES**

- ALL ROOFS IN SCOPE OF PROJECT ARE UNOCCUPIED ACCORDING TO NFPA 101.
- SPRINKLER PIPES SHOWN ARE EXISTING TO REMAIN AND SUPPLY THE PENTHOUSES ONLY. ROOFS ARE NOT SPRINKLERED.
- EXIT SIGNS ARE NOT REQUIRED ACCORDING TO IBC, SECTION 1011.
- ALL EXIT ACCESS, LADDERS AND HATCHES ARE EXISTING TO REMAIN.

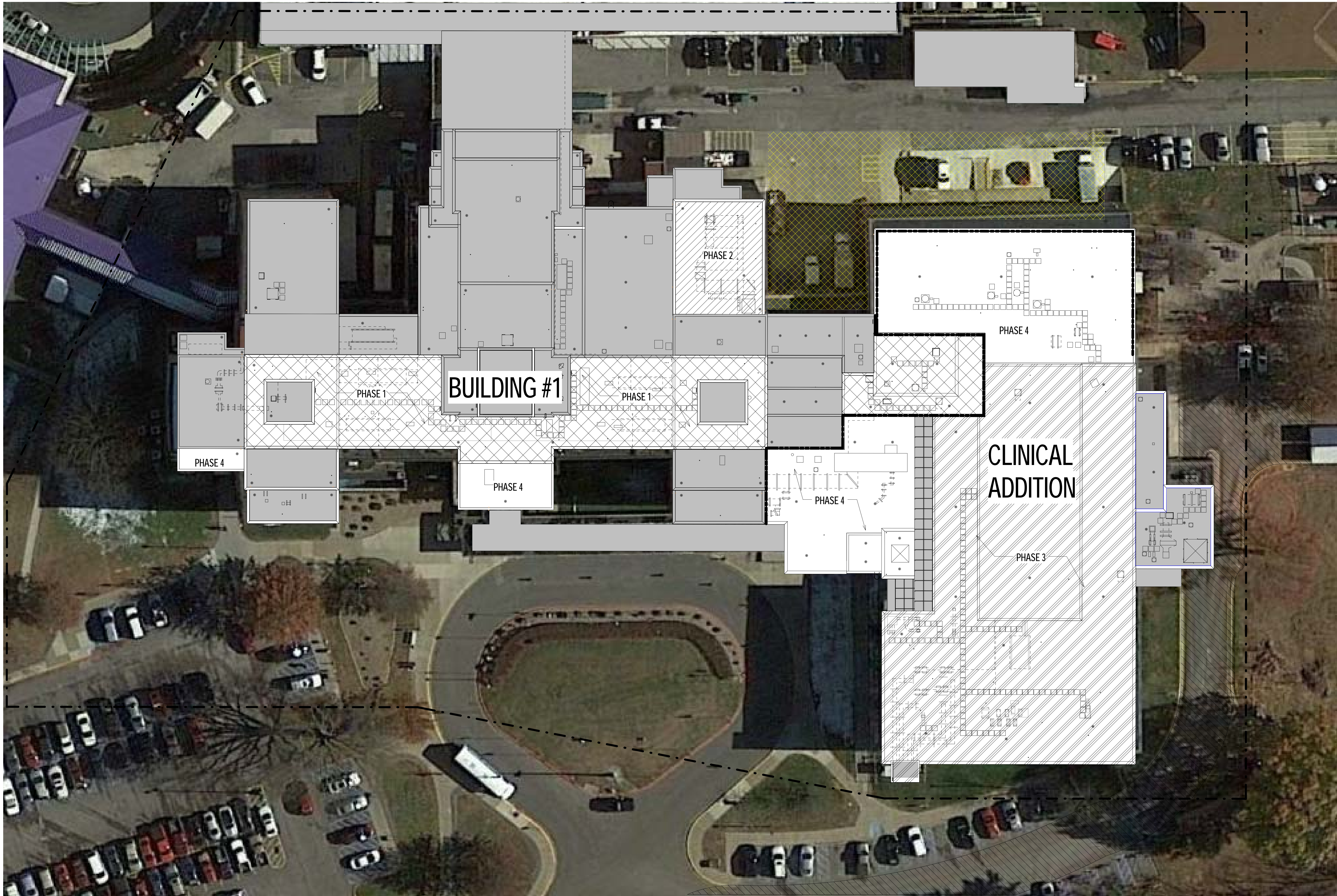
**LIFE SAFETY ROOF PLAN**  
G100 SCALE: 1/32" = 1'-0"

## CODE ANALYSIS

- The 2015 edition of the Life Safety Code, NFPA 101 and the Sixth Edition of the Department of Veterans Affairs Fire Protection Design Manual have been used to review the above referenced project for compliance with the fire and life safety requirements. For features not addressed by NFPA 101 and the referenced National Fire Codes, the 2015 edition of the International Building Code has been used.
- Building 1 is an existing building with 8 floors spanning an estimated 105 feet.
- The existing building has a **Health Care Occupancy**. Corridor Continuity and separation, Section 407.3. Smoke Partitions. Doors smoke rated with positive latching unless required to be Fire Rated (Section 509.4. Below). Exceptions by 407.2.1 through 407.2.4: Waiting areas and lobbies (1-4). Care providers' stations constructed as corridors, psychiatric treatment areas (1-6), and Gift Shops less than 500 sqft. Doors tested to UL 1784, installed per NFPA 105. Dusts or air transfer opening shall limit the passage of smoke and be equipped with a Smoke Damper.
- 8.2.1 Construction**  
For Construction I(442):  
Exterior Bearing walls: 4-hr FRR  
Interior Bearing: 4-hr FRR (3-hr FRR if supporting only roof or one floor),  
Floor: 2-hr FRR  
Roof: 2-hr FRR  
**Assumed Assembly = UL DESIGN NO. K917**
- Occupancy Separation:** Not Required with other Health Care Occupancy.
- Special Requirements:** Corridors in occupancies in Group I-2 shall be continuous to the exits and shall be separated from other areas. Corridors are a minimum of 36 inches wide. During construction, these corridors shall maintain code. Any new corridor walls shall be constructed as smoke partitions. Smoke Barriers to separate stories into 50 occupants, an area of 22,500 or smaller square feet, but at least 2 areas per floor. Refuge Areas are assumed in each smoke compartment and will not be altered or obstructed by the project work. Automatic sprinkler system: existing, altered components shall comply with NFPA 101 9.7.1.1 Sprinkler systems required to comply with NFPA 13. Fire alarm system: existing, altered components shall comply with NFPA 13, according to NFPA 101. Fire rated partitions are required to separate the following:  
Elevator hoistway is constructed as a 2 hr Shaft enclosure, which shall be maintained and continuous (have continuity) per IBC2012 1009  
Vertical Shafts, including enclosed exit stairways shall be 2 hr rated walls or partitions as required by IBC 709, with 90 min doors, IBC 715.
- Allowable Area:** Based upon non combustible, unprotected construction.  
Basic Allowable Area: Unlimited (IBC, Table 503, I-2)
- Allowable Height:** Unlimited
- Hazardous Room Separation:** None required
- Means of egress:** are existing and shall not be altered or obstructed by the project work. Existing configuration is assumed to comply with NFPA 101 requirements or applicable VA/Federal requirements. Travel distances provide as a REFERENCE ONLY for construction layout, planning, and coordination of temporary measures:  
Sleeping Room to exit Access: 50 feet  
Point of Care Suite (w/ Sleeping Room) to exit Access: 100 feet  
Point of Care Suite (w/o Sleeping Room) to exit Access: 200 feet (to exit or smoke barrier door)  
i. Maximum Travel Distance: 30 feet  
ii. Dead End Corridor Distance: 100 feet  
iii. Common Path of Travel:  
Number of exits required: A minimum of 2 exits are required smoke compartment.  
IBC Section 1004.5: Outdoor areas used exclusively for service of the building need only have one means of egress.  
Required Fixture count: Existing, shall not be impacted by the project work.  
Fire Department Access Roads:  
Fire department to use Medical Center Drive to access Building 1 on  
Louis A Johnson VAMC campus and shall not be impacted or obstructed by the project work.
- Interior Finish:**  
Project work is not anticipated to impact interior finishes. However, any new provided shall comply with: Walls and Ceilings: Interior finish flame spread shall be limited per Chapter 8 of the NFPA 101 to Class A, B and C materials.  
Interior wall and ceiling finish shall be Class A or Class B in exits, corridors and lobbies; and Class A, Class B, or Class C in all other areas.  
Class A: Flame Spread 0-25; Smoke Developed 0-450.  
Class B: Flame Spread 26-75; Smoke Developed 0-450.  
Class C: Flame Spread 76-200; Smoke Developed 0-450.  
Floors: Interior floor finish shall be Class I or Class II in corridors and exits.
- Fire Suppression:**  
Sprinkler system: Medical Center building is required to be sprinkled throughout in accordance with NFPA 13.  
The sprinkler system is hydraulically designed and anticipated to perform accordance with applicable edition of NFPA. Any modifications must comply with NFPA 13 2013 and the Sixth Edition of the Department of Veterans Affairs Fire Protection Design Manual and NFPA 45 shall regulate design area and density.  
**Minimum Design Requirements:**  
Fabrication and restoration labs shall be protected as:  
Ordinary Hazard Occupancy, Group 1: 0.15 gpm/ft<sup>2</sup> over 1,500 ft<sup>2</sup>.  
Hose stream allowance: 250 GPM  
All other areas shall be protected as:  
Light Hazard Occupancy: 0.10 gpm/ft<sup>2</sup> over 1,500 ft<sup>2</sup>.  
Hose stream allowance: 100 GPM  
Portable Fire extinguishers: Fire Extinguishers are required in accordance with NFPA 101 and NFPA 10.
- Fire alarm system:**  
A combined manual and automatic Fire Alarm System exists and shall not be impacted, disabled or modified by the project work.

<b>VAMC CLARKSBURG</b> 1 MED CENTER DRIVE CLARKSBURG, WV 26301		<b>ARCHITECT/ENGINEERS:</b> ESTIMATOR <b>ARCHITECT, Structural Engineer, Civil Engineer</b> <b>GUIDON DESIGN</b> 905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204 317.800.6388 SUSTAINABLE ARCHITECTURE + ENGINEERING		<b>BID DOCUMENTS</b>	
Drawing Title <b>LEGENDS &amp; ABBREVIATIONS</b>		Project Title <b>REPLACE ROOF MAIN BUILDING AND CLINICAL ADDITION</b>		Project Number <b>13.1065.03</b>	
Approved for Design Concept: <b>FACILITY MANAGEMENT DIVISION MANAGER</b>		Location <b>LOUIS A. JOHNSON VAMC</b>		Building Number <b>BLG. 1 + ADD.</b>	
Date <b>04-07-2016</b>		Checked By: <b>STW</b>		Drawing Number <b>G100</b>	
Revisions:		Date		Drawing Number <b>G100</b>	
				Office of Facilities Management VA Project Number <b>540-13-308</b>	





1 SITE PLAN  
SCALE: 1" = 20'-0"

**SITE PLAN LEGEND**

- PROJECT BOUNDARY
- LAYDOWN AREAS
- NO WORK ON THIS ROOF

**PHASING LEGEND**

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- DO NOT OBSTRUCT - EMERGENCY ACCESS

CONTRACTOR SHALL COORDINATE THE WORK, INCLUDING BUT NOT LIMITED TO ROOF ACCESS, SEQUENCING AND SCHEDULE (SPEC SECTION 01 32 16 PROJECT SCHEDULE) WITH THE AWARDED CONSTRUCTION SAFETY CORRECTIONS WORK, PROJECT #540-13-307. THE INTENT OF THE COORDINATION EFFORT IS THAT CONSTRUCTION SAFETY CORRECTIONS WORK IS COMPLETED ON EACH ROOF PRIOR TO START OF REROOFING WORK ON SAME ROOF. CONTRACTOR SHALL MEET ALL REQUIREMENTS TO PROVIDE THE INDICATED ROOF WARRANTY AND A COMPLETE AND UNIFIED ROOF SYSTEM.

Revisions:	Date

U.S. Department of Veterans Affairs

VAMC CLARKSBURG

1 MED CENTER DRIVE CLARKSBURG, WV 26301



ARCHITECT/ENGINEERS:

ESTIMATOR

ROOFING CONSULTANT

ARCHITECT

Architect, Structural Engineer, Civil Engineer

KRC CRAWFORD CONSULTING SERVICES JOINT VENTURE

905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204  
317.800.6388  
WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

BID DOCUMENTS			
Drawing Title SITE PLAN	Project Title REPLACE ROOF MAIN BUILDING AND CLINICAL ADDITION	Project Number 13.1065.03	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location LOUIS A. JOHNSON VAMC	Building Number BLG. 1 + ADD.	
Date 04-07-2016	Checked By: STW	Drawn By: ARO	VA Project Number 540-13-308
			VA











GENERAL PLAN NOTES

1.

SEE GENERAL NOTES ON G100.

2.

PROVIDE MANUFACTURER'S STANDARD DETAILS WHERE MECHANICAL EQUIPMENT OCCURS. COORDINATE WITH ARCHITECT AND ENGINEER.

3.

REMOVE ALL UNUSED OR ABANDONED ROOF CURBS, HATCHES, AND PENETRATIONS ON ROOF SURFACES WITHIN THE SCOPE OF WORK. RESTORE ROOF DECK, INSULATION & MEMBRANE SYSTEM.

4.

PROVIDE A BREAK IN DOWNSPOUTS OVER 40 FEET LONG. PROVIDE A CONDUCTOR HEAD AT START OF NEW RUN. ALL DOWNSPOUTS SHALL TERMINATE WITH 60 DEGREE ELBOW MIN. AND SPLASHBLOCK.

5.

GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN FIELD. ALL DIMENSIONS INDICATED ON DRAWINGS ARE FOR APPROXIMATE REFERENCE. REFER TO GENERAL NOTES ON G100.

ALTERNATES, DEDUCT:

1.

ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSTALLATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN AREA INDICATED AS ALTERNATE NO. 1 ON LEVEL 6.

2.

ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSTALLATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN AREA INDICATED AS ALTERNATE NO. 2, ON LEVEL 6.

3.

ELIMINATE FLUID APPLIED URETHANE RESTORATION TREATMENT AS INDICATED AS ALTERNATE NO. 3, ON LEVEL 4.

4.

ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSULATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN INDICATED AREA AS ALTERNATE NO. 4, ON LEVEL 2. ELIMINATE DEMOLITION & REMOVAL OF ANY ABANDONED ROOF CURBS, ABANDONED ROOF HATCHES, AND ABANDONED LOUVERS INDICATED AS PART OF THE WORK. ABANDONED ROOF CURBS, ROOF HATCHES, AND ABANDONED LOUVERS WILL REMAIN AS MODIFIED OR COVERED BY ROOFING MEMBRANE REPLACEMENT/INSTALLATION.

ROOF DRAWING SYMBOLS

ITEMS ON ROOF DECK

ITEMS ABOVE ROOF DECK

EQUIPMENT/PIPE CURB

GOOSENECK VENT

LIGHTNING PROTECTION

ROOF DRAIN

PLUMBING VENT

SUPPLY/RETURN DUCTS

EXHAUST VENT

SCUPPER/OVERFLOW DRAIN

EPDM ROOF PAVERS

AREAS TREATED WITH FLUID APPLIED RESTORATION COATING. CLEAR DEBRIS & CLEAN PRIOR TO INSTALL.

DRAINAGE CRICKET. SLOPE AS NEEDED. MAX. 1'-1'-0"

NO WORK ON THIS ROOF

ALTERNATE: SEE G100 AND SPECIFICATIONS FOR MORE INFO

SPRINKLER SYSTEM; DRY PIPE

GUARDRAIL

LADDER W/ CAGE AND CROSSOVER PLATFORM

LADDER W/ CAGE AND CROSSOVER PLATFORM (NO CAGES)

WINDOW CLEANING ANCHORAGE POINT LOCATION

SPECIFIC PLAN NOTES

NOTE: NOT ALL SPECIFIC PLAN NOTES APPEAR ON EVERY SHEET. THIS LIST INCLUDES ALL SPECIFIC PLAN NOTES FOR THE ENTIRE PROJECT.

1.

CUT OUT & REMOVE EXISTING ROOF SYSTEM WITH WETFALED INSULATION. PROVIDE NEW INSULATION, COVER BOARD AND EPDM MEMBRANE. MAINTAIN EXISTING ROOF SLOPE. TIE INTO EXISTING EPDM ROOF MEMBRANE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEW FLASHING AT WALLS, ROOF TOP UNITS, AND ROOF PENETRATIONS AS REQUIRED. PROVIDE NEW METAL COPING IN WHOLE LENGTHS.

2.

CUT OUT & REMOVE EXISTING ROOF SYSTEM TO DECK. INSTALL NEW INSULATION, 4" THICK FOR 20 R-VALUE MIN. GREATER THICKNESS AS REQUIRED FOR 18" SLOPE. THICKER/GREATER AS REQUIRED FOR SLOPE. INSTALL COVERBOARD AND EPDM MEMBRANE. PROVIDE NEW FLASHING AT WALLS, ROOF TOP UNITS AND ROOF PENETRATIONS AS REQUIRED.

3.

REMOVE EXISTING WALKWAY PADS AS REQUIRED FOR NEW CONSTRUCTION UPON COMPLETION OF ROOF RESTORATION. INSTALL NEW WALKWAY PADS IN SAME LOCATION. MATCH EXISTING.

4.

EXISTING LADDER. MODIFY LOOSE END LENGTH TO BE NO LESS THAN 8' ABOVE EPDM.

5.

CLEAN ROOF DRAIN AND PIPE. VIDEO STORM FOR CLEAR OBSTRUCTIONS UNTIL STORM DRAINS LATERAL BELOW GRADE.

6.

REMOVE ROOF DRAIN AND REPLACE WITH NEW ROOF DRAIN OF EQUAL SIZE EXISTING LIGHTNING PROTECTION REMOVE FOR WORK. REINSTALL.

7.

NOT USED

8.

NOT USED

9.

REMOVE, REFLASH, AND REPLACE STONE CAP.

10.

PROVIDE NEW WALK PADS, TYPICAL. MATCH EXISTING.

11.

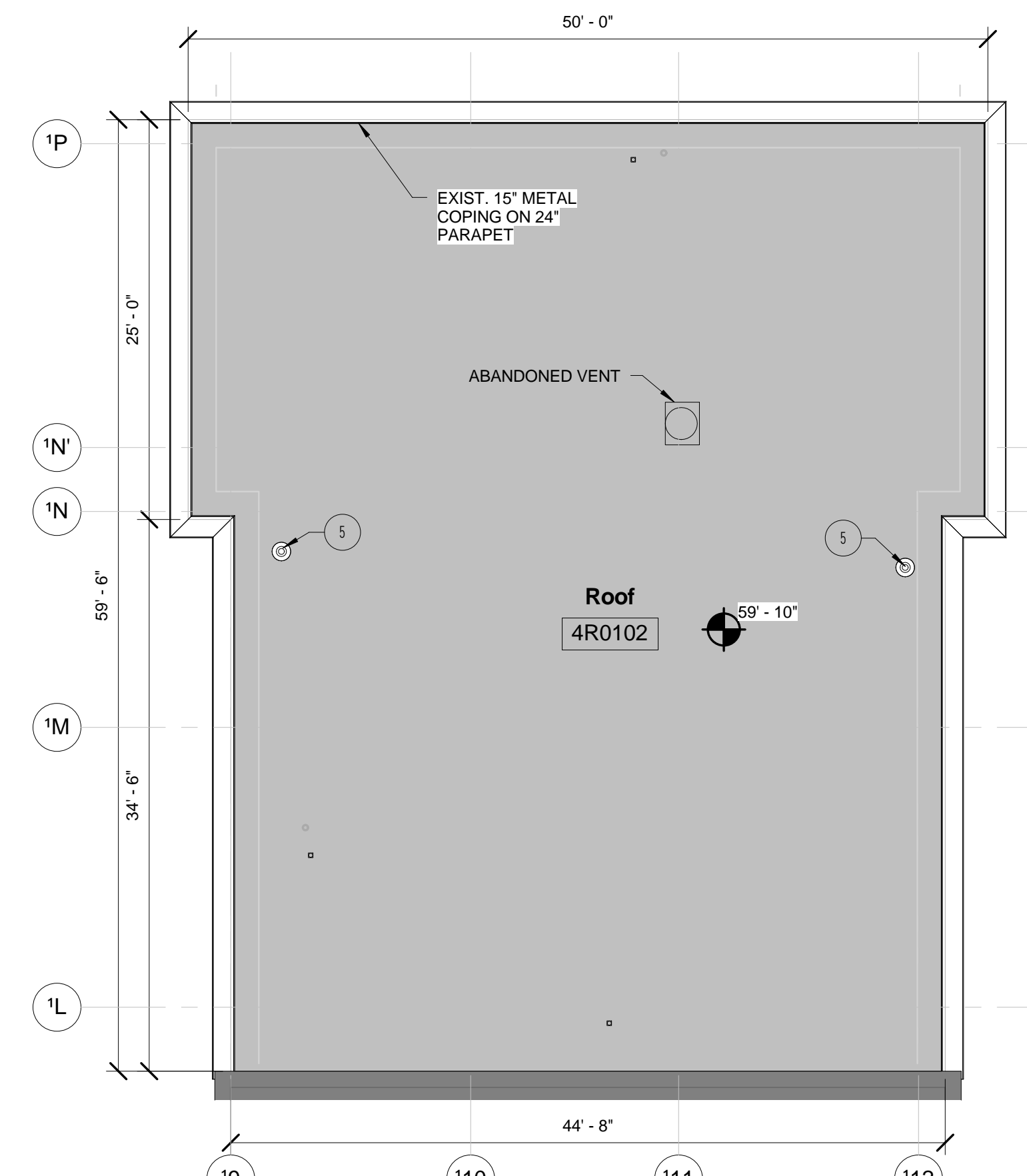
PROVIDE NEW ROOF SCUPPER OPENING THROUGH EXISTING MASONRY PARAPET AND PROVIDE SCUPPER PER DETAIL 16(A)500.

12.

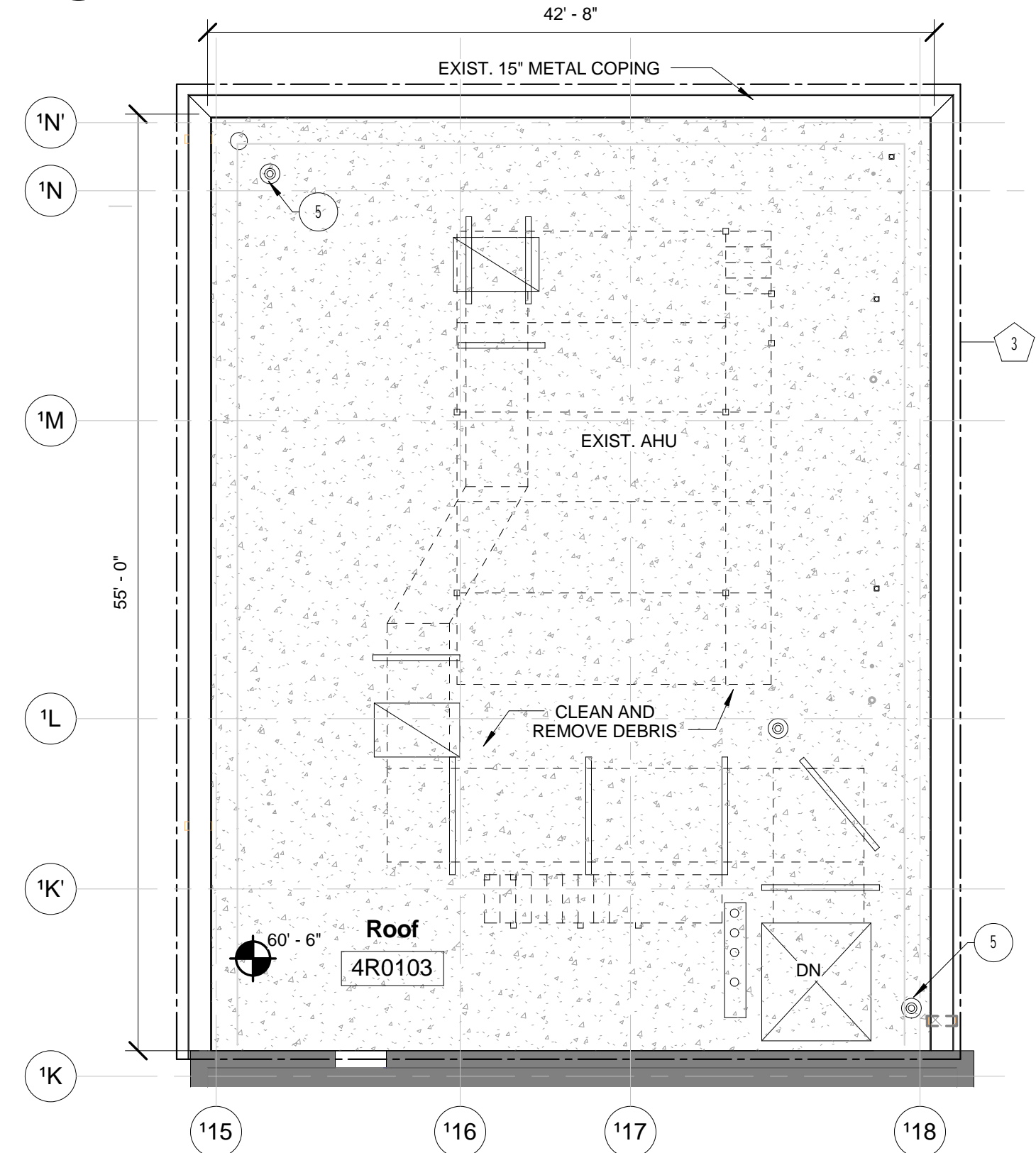
ROUTE DOWNSPOUT HORIZONTALLY TO THIS LOCATION WITH 1/4" PER FOOT SLOPE. MINIMUM. TURN DOWN AND DISCHARGE ON ROOF BELOW. PROVIDE WALL BRACKETS 5'-0" O.C. MAX.

13.

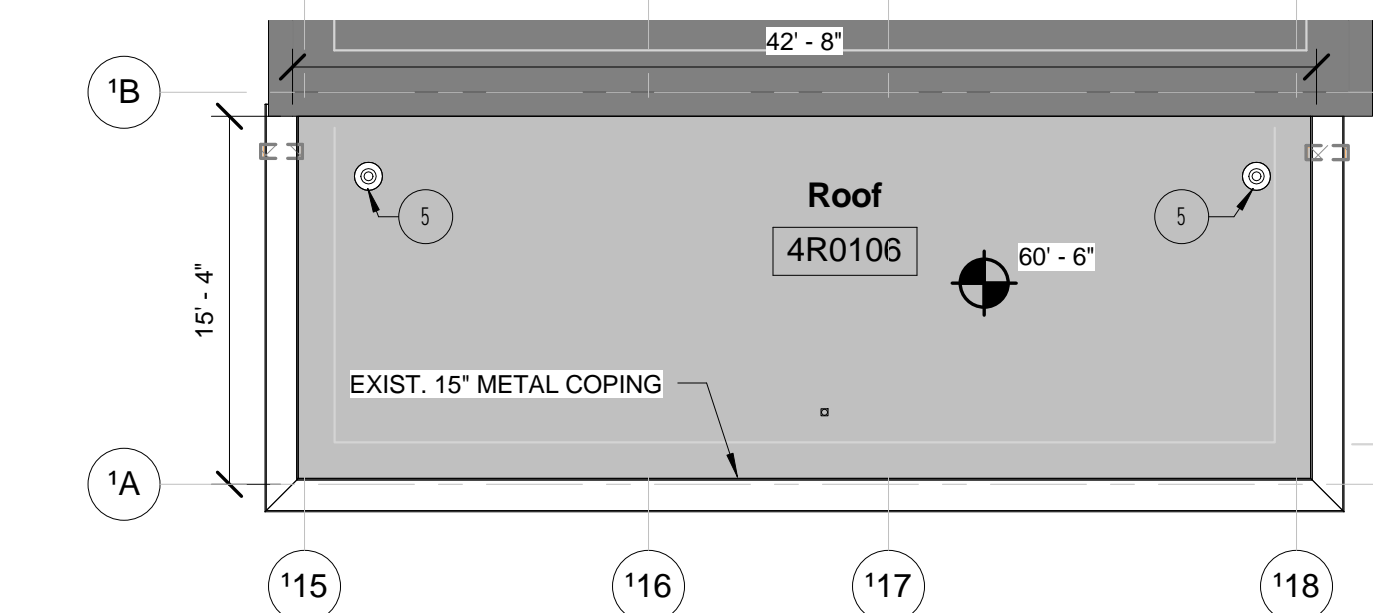
GENERAL CONTRACTOR TO COORDINATE WITH COR BEFORE PERFORMING ANY AND ALL WORK IN THE VICINITY OF DESIGNATED EXIST. BIO-HAZARDOUS AND LAB EXHAUST VENTS.



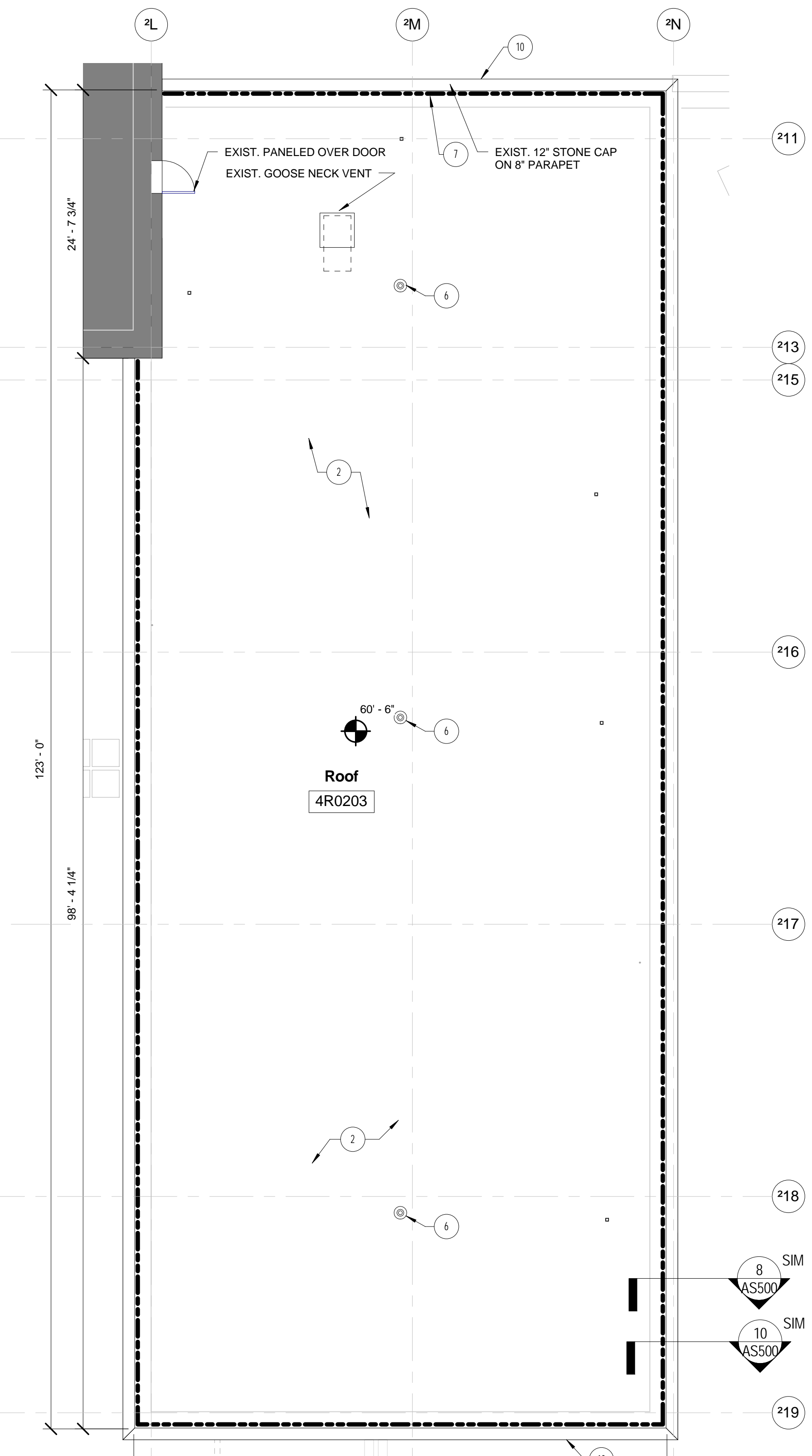
4 LEVEL 4 ENLARGED ROOF PLAN  
SCALE: 1/8" = 1'-0"



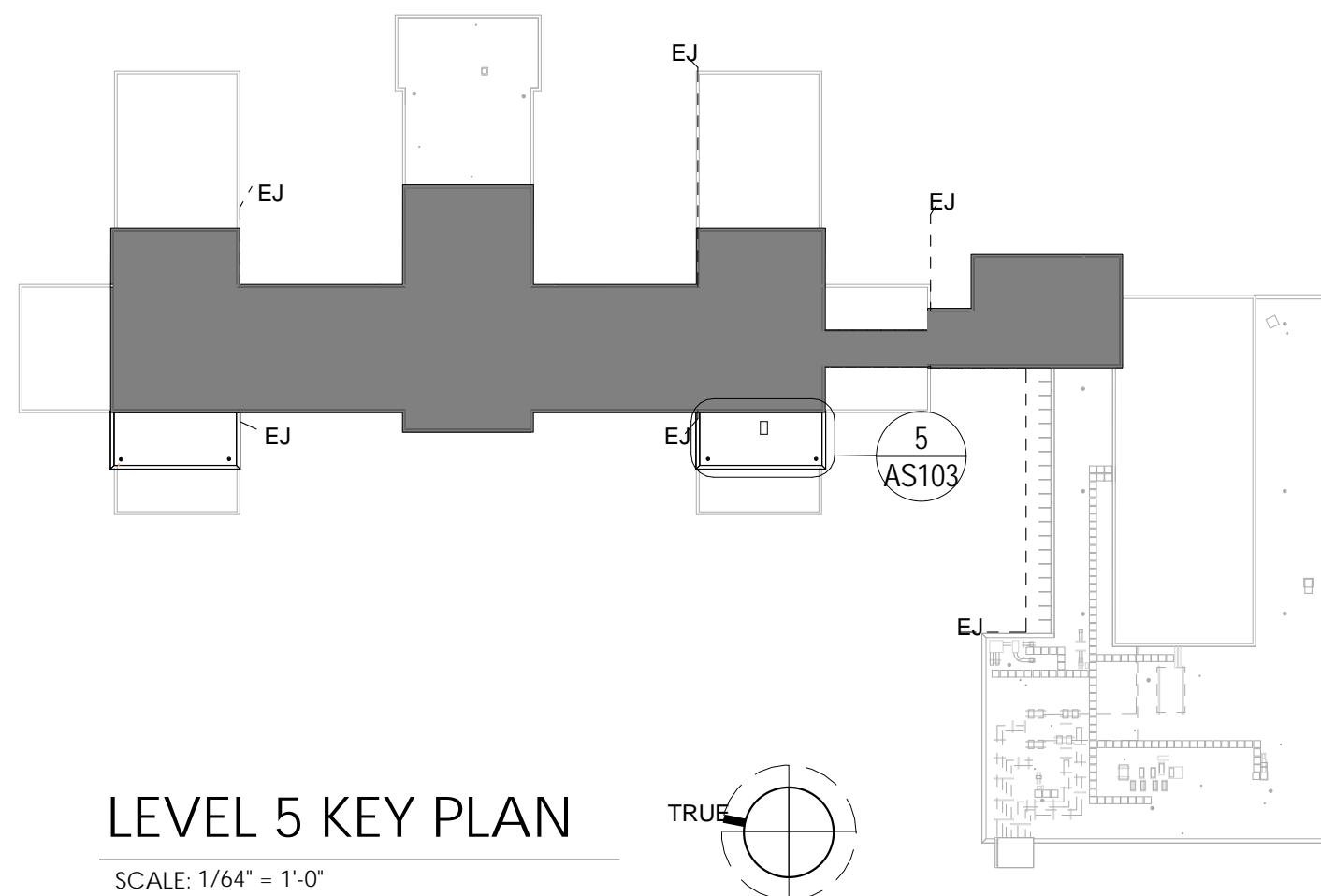
3 LEVEL 4 ENLARGED ROOF PLAN  
SCALE: 1/8" = 1'-0"



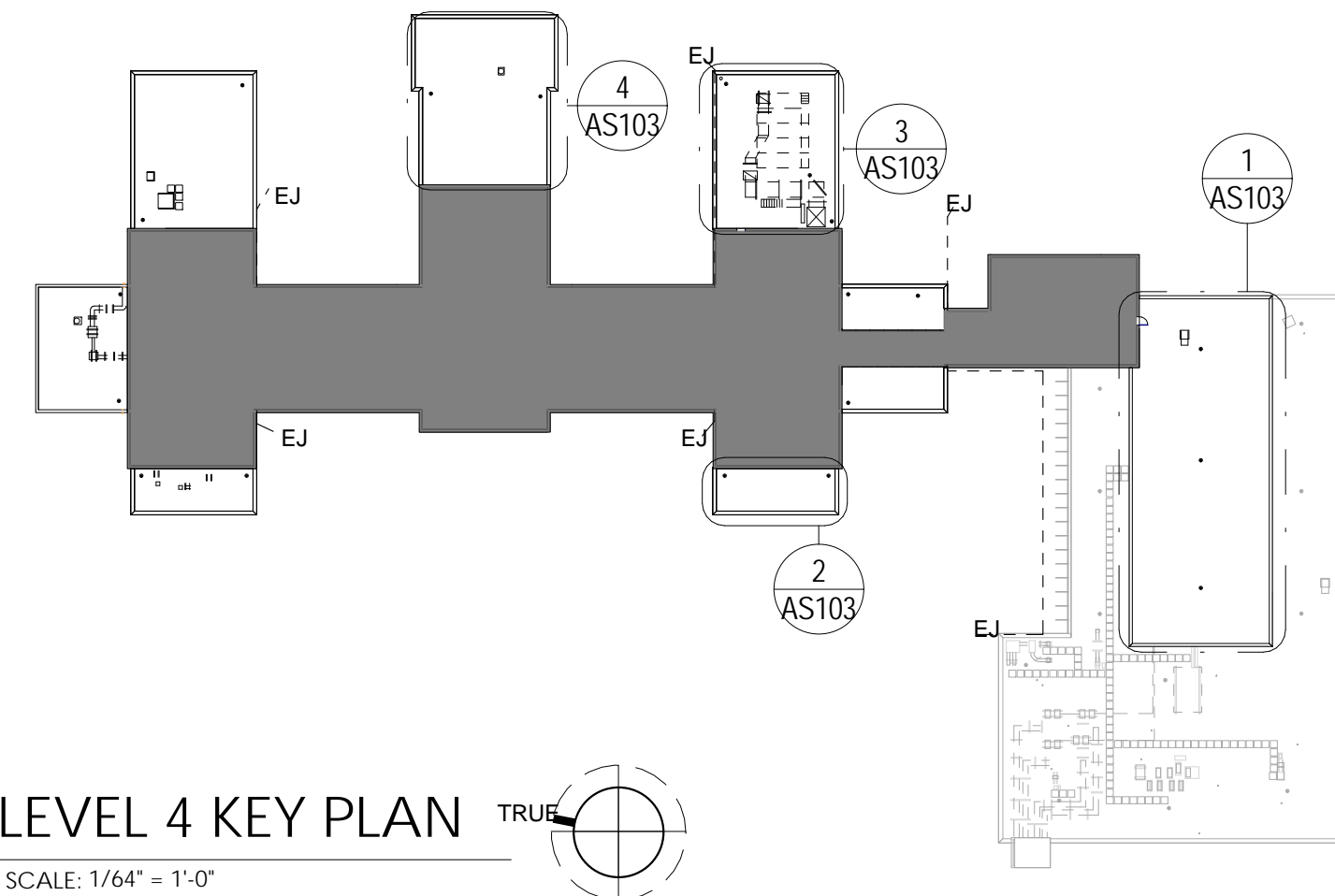
2 LEVEL 4 ROOF PLAN  
SCALE: 1/8" = 1'-0"



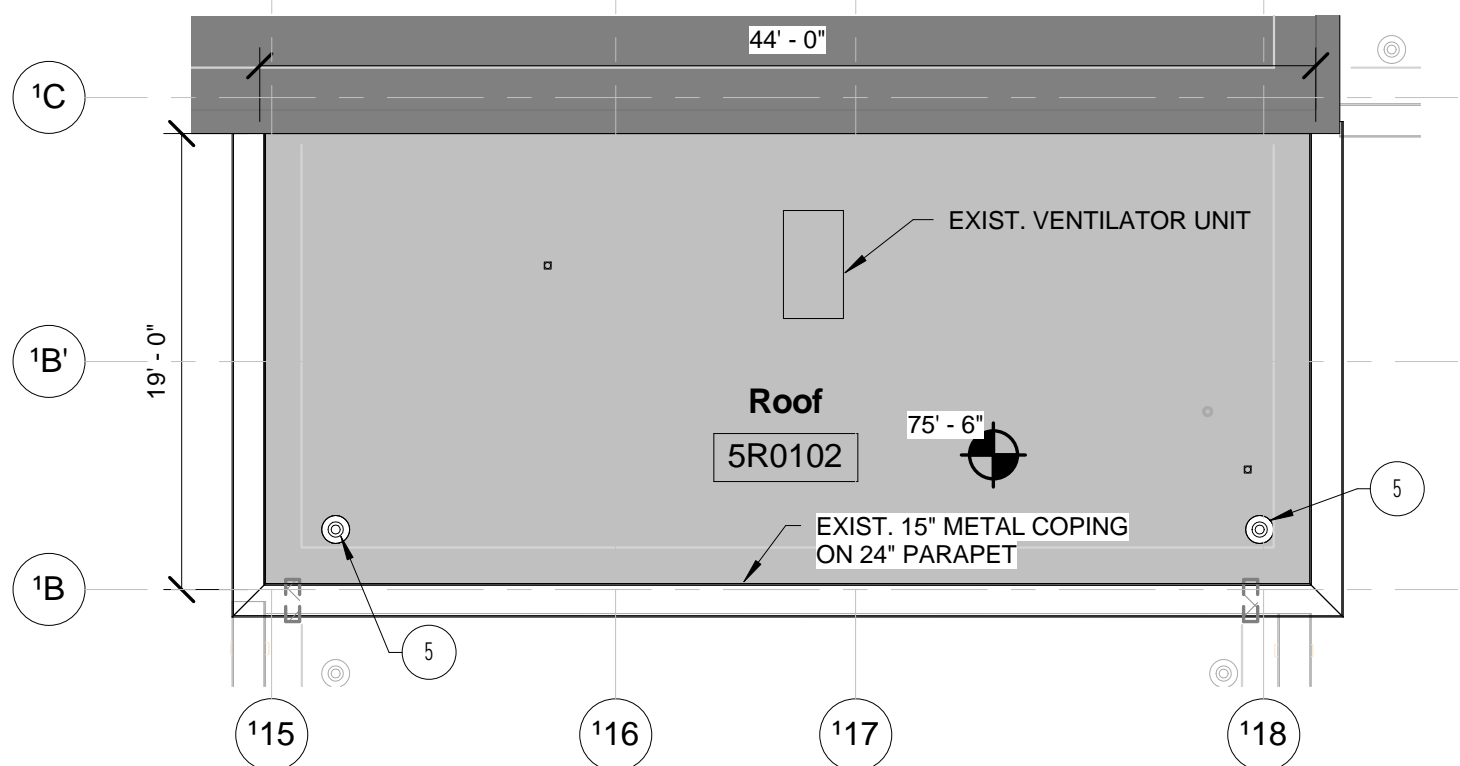
1 LEVEL 4 ENLARGED ROOF PLAN  
SCALE: 1/8" = 1'-0"



LEVEL 5 KEY PLAN  
SCALE: 1/64" = 1'-0"



LEVEL 4 KEY PLAN  
SCALE: 1/64" = 1'-0"



5 LEVEL 5 ROOF PLAN  
SCALE: 1/8" = 1'-0"

Revisions:	Date

VA

U.S. Department of Veterans Affairs

VAMC CLARKSBURG  
1 MED CENTER DRIVE CLARKSBURG, WV 26301



ARCHITECT/ENGINEERS:  
ESTIMATOR  
**KRC**  
CRAWFORD  
CONSULTING SERVICES  
JOINT VENTURE

ROOFING CONSULTANT  
**AECOM**

ARCHITECT  
Architect, Structural Engineer, Civil Engineer  
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Drawing Title  
LEVEL 4 ROOF PLANS  
Approved for Design Concept:  
FACILITY MANAGEMENT  
DIVISION MANAGER

BID DOCUMENTS  
Project Title  
REPLACE ROOF MAIN  
BUILDING AND  
CLINICAL ADDITION  
Location  
LOUIS A. JOHNSON VAMC  
Date  
04-07-2016  
Checked By:  
STW  
Drawn By:  
ARO

Project Number  
13.1065.03  
Building Number  
BLG. 1 + ADD.  
Drawing Number  
**AS103**

OFFICE OF  
FACILITIES  
MANAGEMENT  
VA Project Number  
540-13-308  
VA U.S. Department of Veterans Affairs



GENERAL PLAN NOTES

1.

SEE GENERAL NOTES ON G100.

2.

PROVIDE MANUFACTURER'S STANDARD DETAILS WHERE MECHANICAL EQUIPMENT OCCURS. COORDINATE WITH ARCHITECT AND ENGINEER.

3.

REMOVE ALL UNUSED OR ABANDONED ROOF CURBS, HATCHES, AND PENETRATIONS ON ROOF SURFACES WITHIN THE SCOPE OF WORK. RESTORE ROOF DECK, INSULATION & MEMBRANE SYSTEM.

4.

PROVIDE A BREAK IN DOWNSPOUTS OVER 40 FEET LONG. PROVIDE A CONDUCTOR HEAD AT START OF NEW RUN. ALL DOWNSPOUTS SHALL TERMINATE WITH 60 DEGREE ELBOW MIN. AND SPLASHBLOCK.

5.

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ITEMS ON ROOF DECK

ITEMS ABOVE ROOF DECK

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GOOSENECK VENT

LIGHTNING PROTECTION

ROOF DRAIN

PLUMBING VENT

SUPPLY/RETURN DUCTS

EXHAUST VENT

SCUPPER/OVERFLOW DRAIN

EPDM ROOF PAVERS

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DRAINAGE CRICKET. SLOPE AS NEEDED. MAX. 1'-1'-0"

NO WORK ON THIS ROOF

ALTERNATE: SEE G100 AND SPECIFICATIONS FOR MORE INFO

SPRINKLER SYSTEM; DRY PIPE

GUARDRAIL

LADDER W/ CAGE AND CROSSOVER PLATFORM

LADDER W/ CAGE AND CROSSOVER PLATFORM (NO CAGE)

WINDOW CLEANING ANCHORAGE POINT LOCATION

SPECIFIC PLAN NOTES

NOTE: NOT ALL SPECIFIC PLAN NOTES APPEAR ON EVERY SHEET. THIS LIST INCLUDES ALL SPECIFIC PLAN NOTES FOR THE ENTIRE PROJECT.

1.

CUT OUT & REMOVE EXISTING ROOF SYSTEM WITH METAL INSULATION. PROVIDE NEW INSULATION, COVER BOARD AND EPDM MEMBRANE. MAINTAIN EXISTING ROOF SLOPE. TIE INTO EXISTING EPDM ROOF MEMBRANE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEW FLASHING AT WALLS, ROOF TOP UNITS, AND ROOF PENETRATIONS AS REQUIRED. PROVIDE NEW METAL COPING IN WHOLE LENGTHS.

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NOT USED

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NOT USED

8.

REMOVE, REFLASH, AND REPLACE STONE CAP

9.

PROVIDE NEW WALK PADS, TYPICAL. MATCH EXISTING

10.

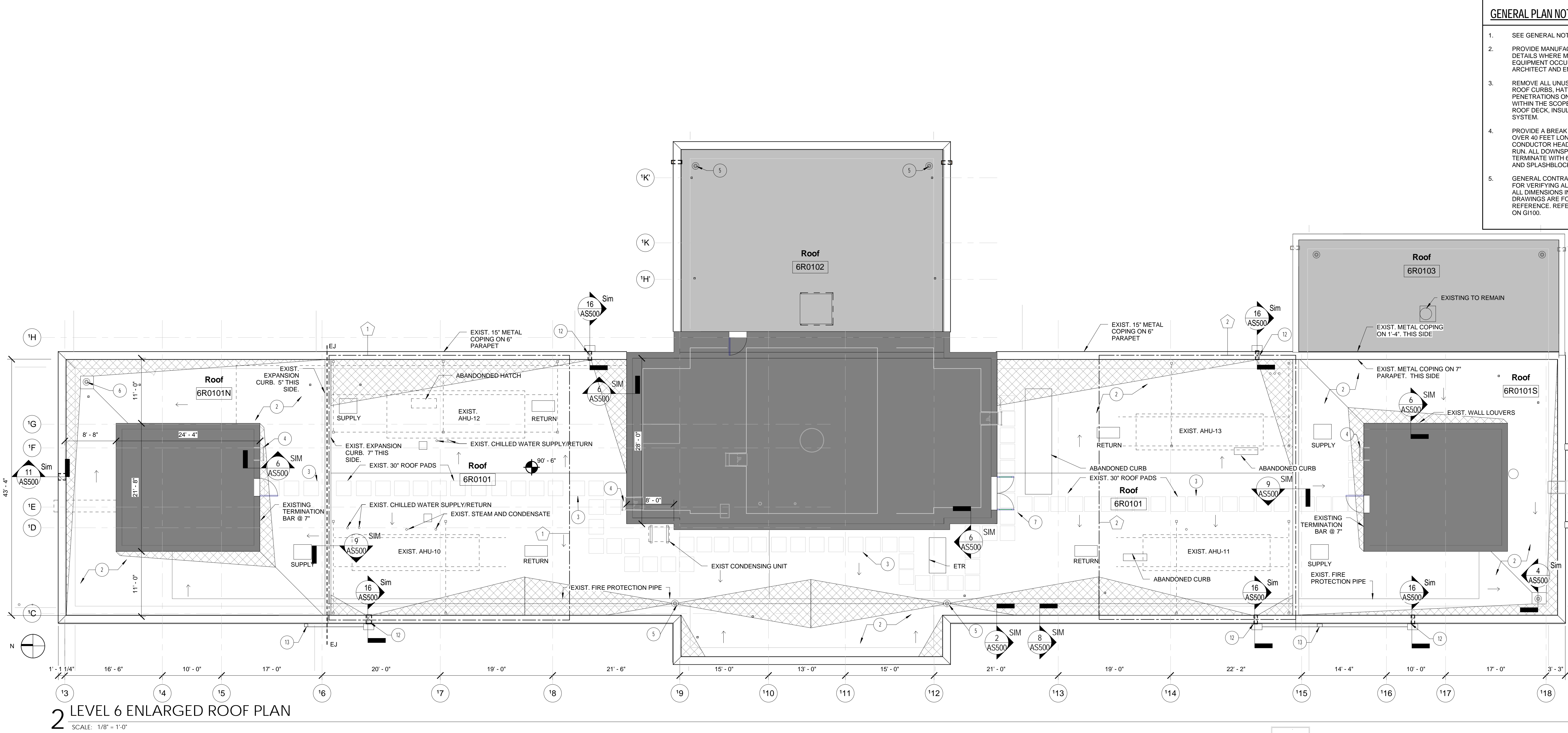
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11.

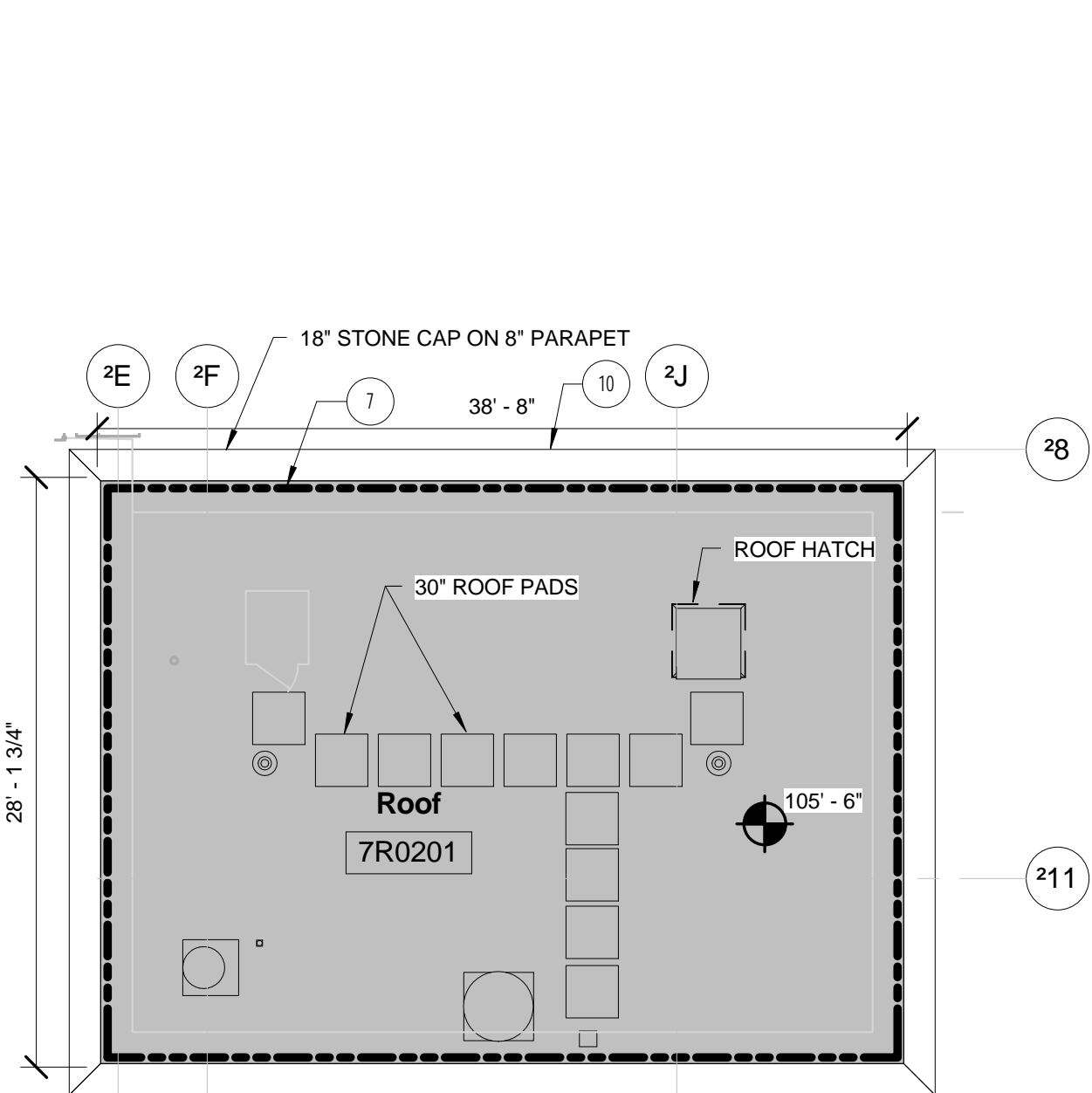
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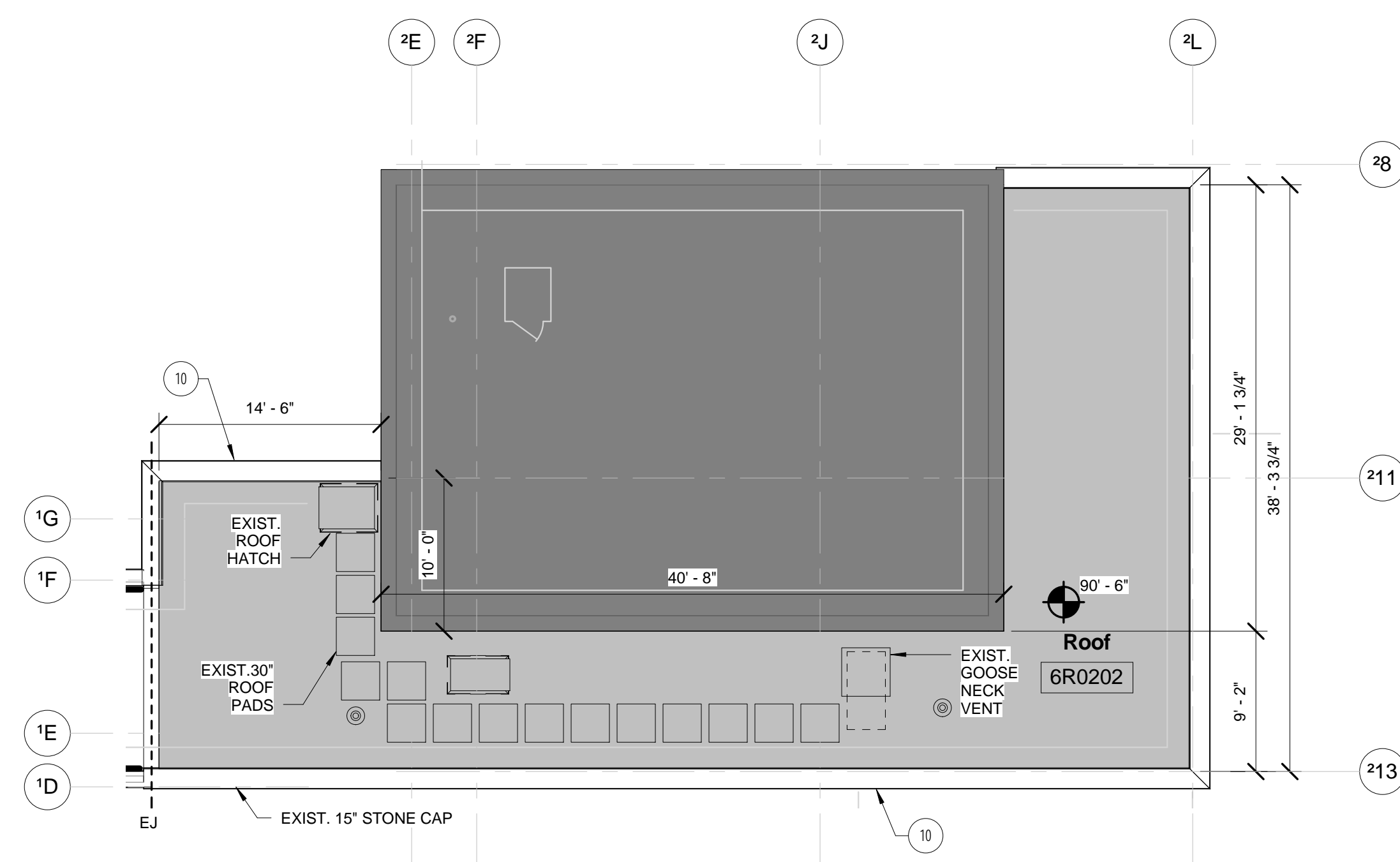
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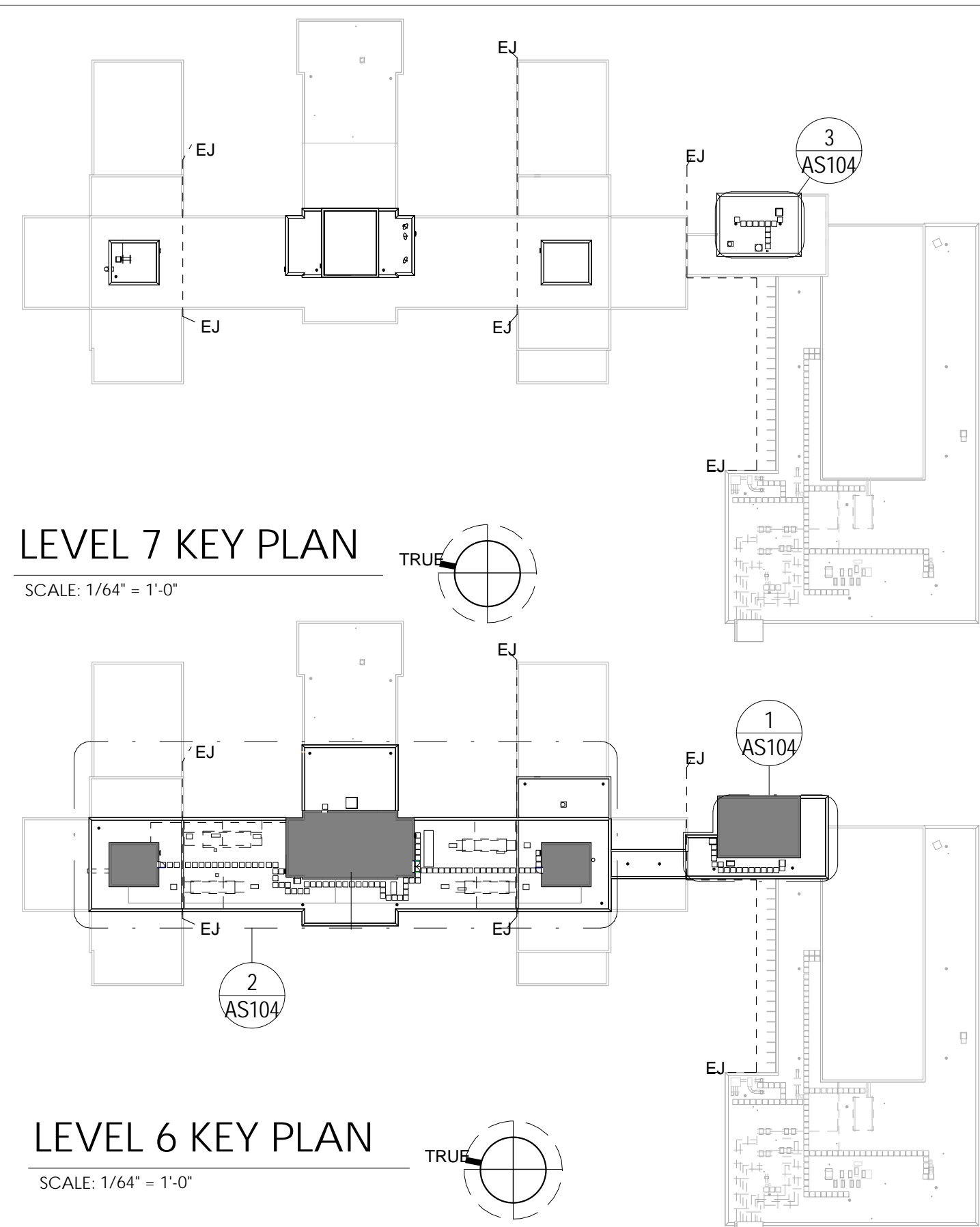
2 LEVEL 6 ENLARGED ROOF PLAN  
SCALE: 1/8" = 1'-0"



3 LEVEL 7 ROOF PLAN  
SCALE: 1/8" = 1'-0"



1 LEVEL 6 ENLARGED ROOF PLAN  
SCALE: 1/8" = 1'-0"



LEVEL 7 KEY PLAN  
SCALE: 1/64" = 1'-0"

LEVEL 6 KEY PLAN  
SCALE: 1/64" = 1'-0"

- ALTERNATES, DEDUCT:
1.

ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSTALLATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN AREA INDICATED AS ALTERNATE NO. 1 ON LEVEL 6.
2.

ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSTALLATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN AREA INDICATED AS ALTERNATE NO. 2, ON LEVEL 6.
3.

ELIMINATE FLUID APPLIED URETHANE RESTORATION TREATMENT AS INDICATED AS ALTERNATE NO. 3, ON LEVEL 4.
4.

ELIMINATE DEMOLITION & REMOVAL OF EXISTING EPDM ROOFING ASSEMBLY. ELIMINATE INSULATION OF NEW, COVER BOARD, EPDM MEMBRANE AND ASSOCIATED WORK WITHIN INDICATED AREA AS ALTERNATE NO. 4, ON LEVEL 2. ELIMINATE DEMOLITION & REMOVAL OF ANY ABANDONED ROOF CURBS, ABANDONED ROOF HATCHES, AND ABANDONED LOUVERS INDICATED AS PART OF THE WORK. ABANDONED ROOF CURBS, ROOF HATCHES, AND ABANDONED LOUVERS WILL REMAIN AS MODIFIED OR COVERED BY ROOFING MEMBRANE REPLACEMENT/INSTALLATION.

Revisions:

Date

VA

U.S. Department of Veterans Affairs  
VAMC CLARKSBURG  
1 MED CENTER DRIVE CLARKSBURG, WV 26301

ARCHITECT/ENGINEERS:  
ESTIMATOR  
  
CONSULTING SERVICES  
JOINT VENTURE

ARCHITECT/ENGINEERS:  
ROOFING CONSULTANT  
  
ARCHITECT, Structural Engineer, Civil Engineer  
  
905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204  
317.800.6388  
SUSTAINABLE ARCHITECTURE + ENGINEERING

Drawing Title  
LEVEL 6 & 7 ROOF PLANS

Approved for Design Concept:  
FACILITY MANAGEMENT  
DIVISION MANAGER

Project Title  
REPLACE ROOF MAIN  
BUILDING AND  
CLINICAL ADDITION

Location  
LOUIS A. JOHNSON VAMC

Date  
04-07-2016

Checked By:  
STW

Drawn By:  
ARO

Project Number  
13.1065.03

Building Number  
BLG. 1 + ADD.

Drawing Number  
AS104

OFFICE OF FACILITIES MANAGEMENT

VA Project Number  
540-13-308







