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ASS01	TYPICAL DETAILS

LOUIS A. JOHNSON VA MEDICAL CENTER

REPLACE ROOF MAIN BUILDING AND CLINICAL ADDITION

BID DOCUMENTS

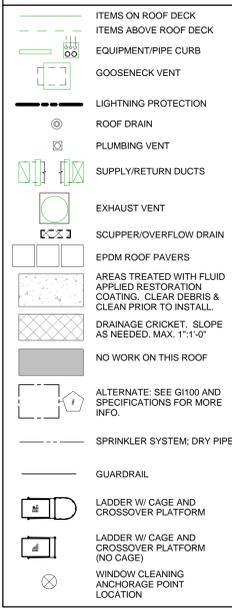


<u>OWNER</u>	<u>ARCHITECT</u>	<u>ROOFING CONSULTANT</u>	<u>PROJECT MANAGER</u>
LOUIS A. JOHNSON VA MEDICAL CENTER Contact: Rebecca Besten Contracting Officer 1 Medical Center Drive Clarksburg, WV 26301 p: 304.626.3461 x 3982 e: rebecca.besten@va.gov	GUIDON DESIGN INC. Contact: Stewart Whitcomb Project PM 905 North Capitol Avenue Suite 100 Indianapolis, IN 46204 p: 317.800.6388 x 102 e: swhitcomb@guidondesign.com	AECOM Contact: Rob Baughman Assessment Manager 277 W. Nationwide Boulevard Columbus, OH 43215 p: 614.464.4500 e: rob.baughman@aecom.com	CRAWFORD CONSULTING SERVICES Contact: Ryan Krumenacker Manager of Pre-Construction Services 239 Highland Avenue East Pittsburgh, PA 15112 p: 412.823.0400 x 235 e: rkrumen@crawfordconsultingservices.com

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
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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 905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING	Drawing Title COVER SHEET 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 GI001 VA Project Number 540-13-308 	OFFICE OF FACILITIES MANAGEMENT
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ROOF DRAWING SYMBOLS

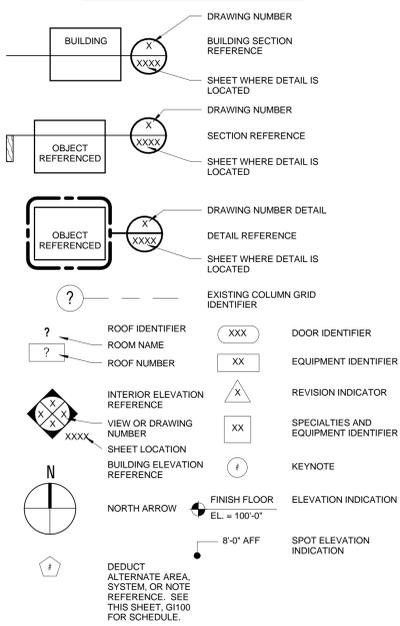


A/C	AIR CONDITIONING	GALV	GALVANIZED	QA	QUALITY ASSURANCE
ADA	AMERICANS WITH DISABILITIES ACT	GC	GENERAL CONTRACTOR	R	R-VALUE (INSULATION), RADIUS, RISER
AE	ARCHITECT AND ENGINEERS	GN	GROUND	RD	ROOF DRAIN
AFG	ABOVE FINISHED GRADE	GR	GROUT	RE	REFERENCE
AHU	AIR HANDLING UNIT	GYP BD	GYP SUM BOARD	REBAR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

ARCHITECTURAL ABBREVIATIONS

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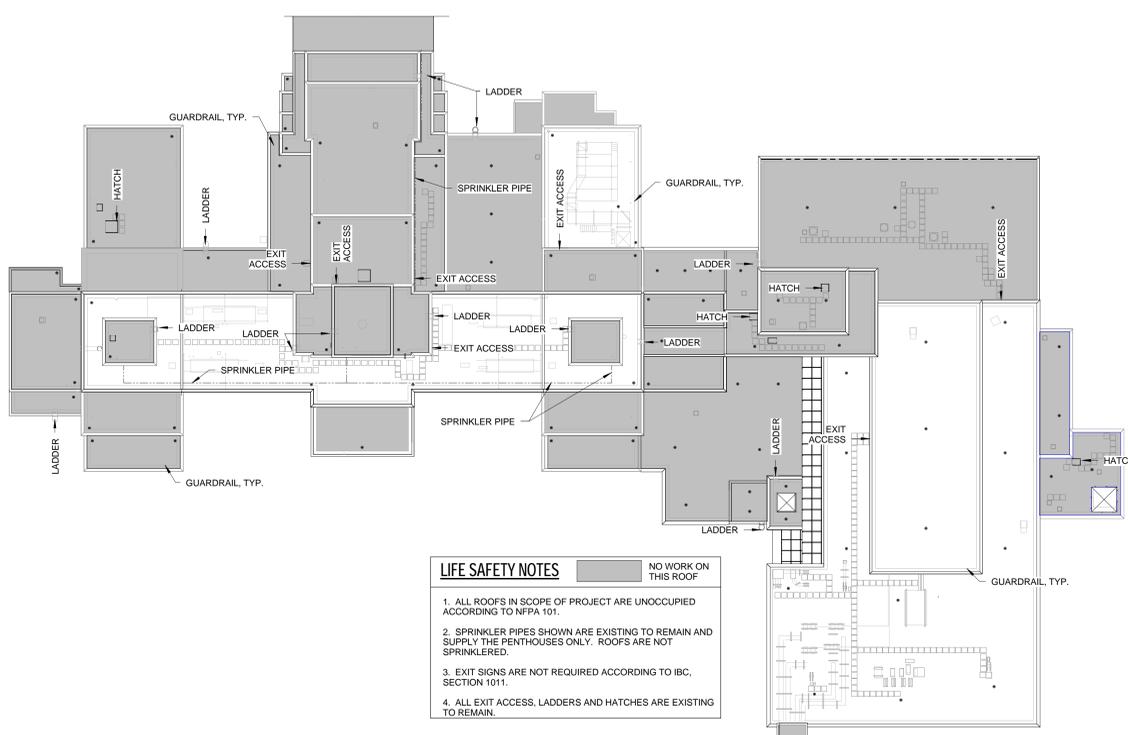


GENERAL REQUIREMENTS

- 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. EVERY REFERENCE 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 YOUR WORK. THERE IS A DANGER OF OMITTING WORK FROM YOUR SCOPE BECAUSE 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 NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR 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 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 CONFORMANCE 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 DAMPPED 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-AGE FIRE-PROOFING AND SEALANTS TO ORIGINAL STATE WHERE DISTURBED BY CONSTRUCTION AND WHERE CONNECTIONS OF NEW CONSTRUCTION MUST INTERFERE 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 INDICATED OTHERWISE.
- 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.

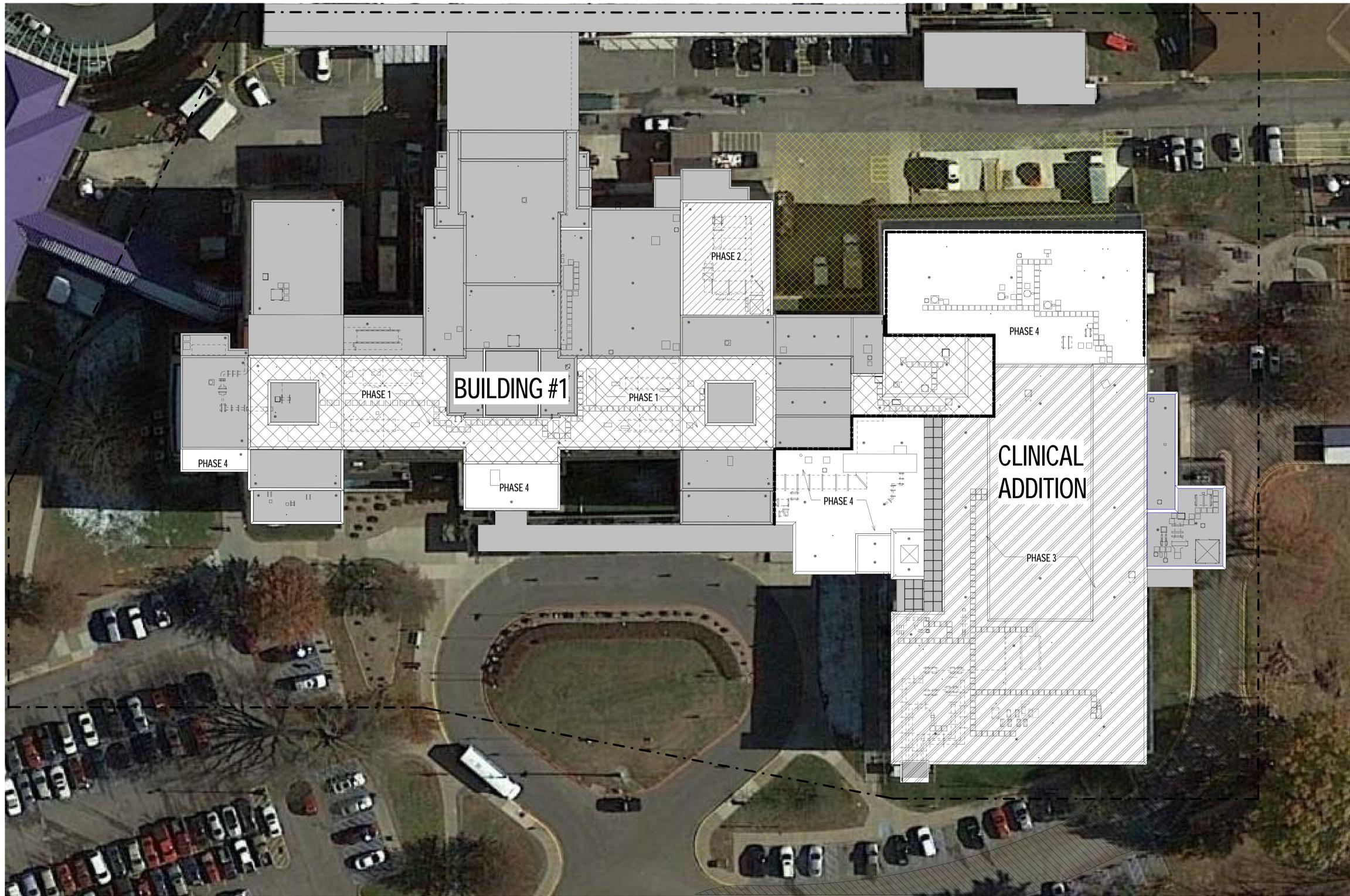


LIFE SAFETY ROOF PLAN
G100 SCALE: 1/32" = 1'-0"

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 shaft 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 (two Sleeping Room) 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/ft2 over 1,500 ft2.
Hose stream allowance: 250 GPM
All other areas shall be protected as:
Light Hazard Occupancy: 0.10 gpm/ft2 over 1,500 ft2.
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.

 U.S. Department of Veterans Affairs	 VAMC CLARKSBURG 1 MED CENTER DRIVE CLARKSBURG, WV 26301	 LUKE J. LEISING REGISTERED PROFESSIONAL ENGINEER No. AR10700021 STATE OF MARYLAND	ARCHITECT/ENGINEERS: ESTIMATOR KRC CRAWFORD CONSULTING SERVICES JOINT VENTURE	ROOFING CONSULTANT AECOM	ARCHITECT Architect, Structural Engineer, Civil Engineer GUIDON DESIGN 905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204 317.800.6386 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING	Drawing Title LEGENDS & ABBREVIATIONS	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	Drawing Number G100	VA Project Number 540-13-308	Date 04-07-2016	Checked By: STW	Drawn By: ARO	VA Project Number 540-13-308



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 (SPR 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.

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VA U.S. Department of Veterans Affairs
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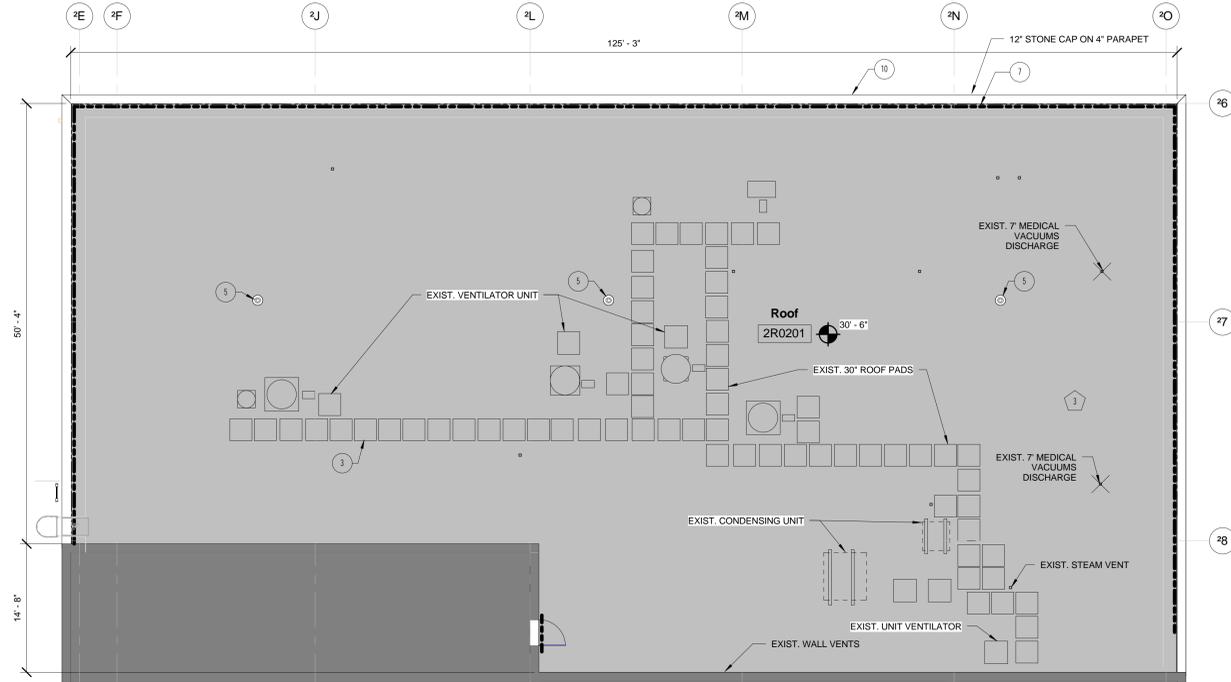


ARCHITECT/ENGINEERS:
 ESTIMATOR **KRC CRAWFORD** CONSULTING SERVICES JOINT VENTURE
 ROOFING CONSULTANT **AECOM**
 ARCHITECT **GUIDON DESIGN** Architect, Structural Engineer, Civil Engineer
 905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204
 317.800.6388 WWW.GUIDONDESIGN.COM
 SUSTAINABLE ARCHITECTURE + ENGINEERING

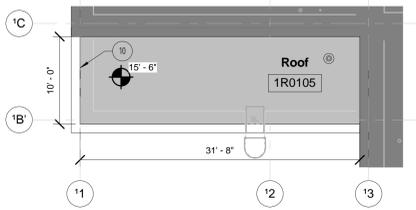
BID DOCUMENTS			
Drawing Title SITE PLAN	Project Title REPLACE ROOF MAIN BUILDING AND CLINICAL ADDITION	Project Number 13.1065.03	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location LOUIS A. JOHNSON VAMC	Building Number BLG. 1 + ADD.	VA Project Number 540-13-308
Date 04-07-2016	Checked By: STW	Drawn By: ARO	AS100



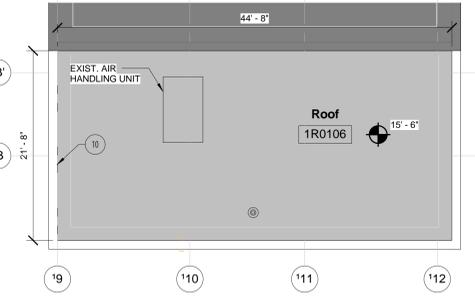
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one eighth inch = one foot
 U13.1066.003 - VA Clarksburg Ro Roof - 100_logrowwall.rvt



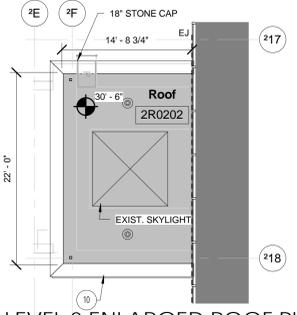
4 LEVEL 2 ENLARGED ROOF PLAN
 SCALE: 1/8" = 1'-0"



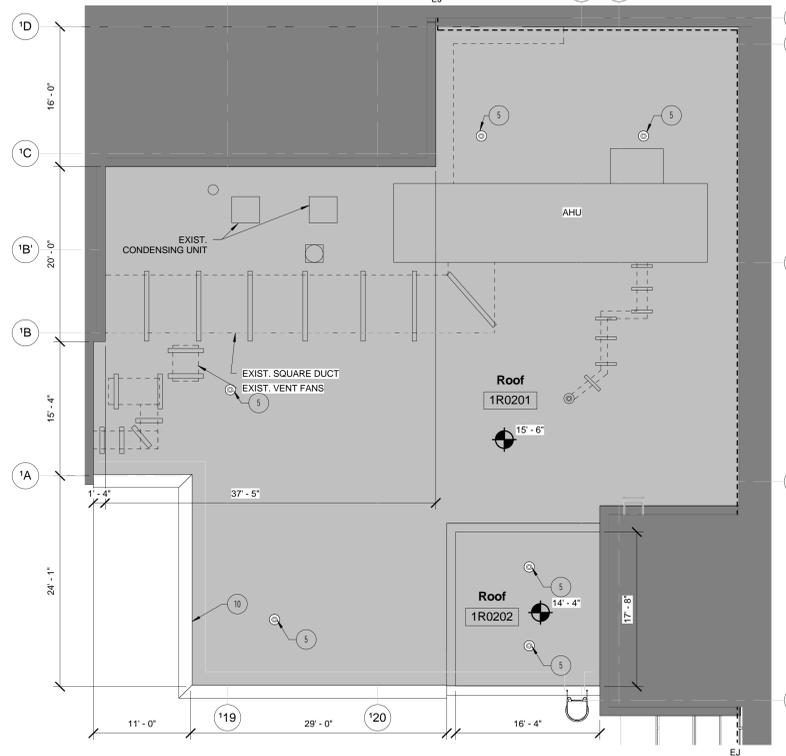
3 LEVEL 1 ENLARGED ROOF PLAN
 SCALE: 1/8" = 1'-0"



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

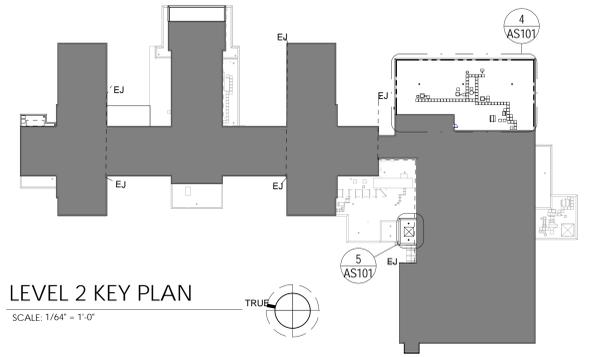


5 LEVEL 2 ENLARGED ROOF PLAN
 SCALE: 1/8" = 1'-0"

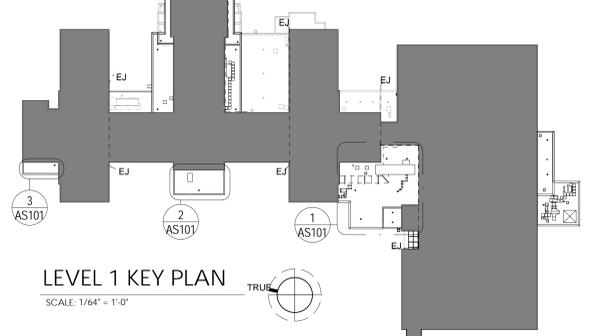


1 LEVEL 1 R201 R202
 SCALE: 1/8" = 1'-0"

SPECIFIC PLAN NOTES	GENERAL PLAN NOTES	ROOF DRAWING SYMBOLS
<p>NOTE: NOT ALL SPECIFIC PLAN NOTES APPEAR ON EVERY SHEET. THIS LIST INCLUDES ALL SPECIFIC PLAN NOTES FOR THE ENTIRE PROJECT.</p> <ol style="list-style-type: none"> CUT OUT & REMOVE EXISTING ROOF SYSTEM WITH WET-FAILED 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. CUT OUT & REMOVE EXISTING ROOF SYSTEM TO DECK. INSTALL NEW INSULATION, 4" THICK FOR 20 R-VALUE MIN. GREATER THICKNESS AS REQUIRED FOR 1/8" 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. REMOVE EXISTING WALKWAY PADS AS REQUIRED FOR NEW CONSTRUCTION. UPON COMPLETION OF ROOF RESTORATION, INSTALL NEW WALKWAY PADS IN SAME LOCATION. MATCH EXISTING. EXISTING LADDER. MODIFY LOOSE END LENGTH TO BE NO LESS THAN 8" ABOVE EPDM. CLEAN ROOF DRAIN AND PIPE. VIDEO STORM FOR CLEAR OBSTRUCTIONS UNTIL STORM DRAINS LATERAL BELOW GRADE. REMOVE ROOF DRAIN AND REPLACE WITH NEW ROOF DRAIN OF EQUAL SIZE EXISTING LIGHTNING PROTECTION. REMOVE FOR WORK. REINSTALL NOT USED. REMOVE, REFLASH, AND REPLACE STONE CAP. PROVIDE NEW WALK PADS, TYPICAL. MATCH EXISTING. PROVIDE NEW ROOF SCUPPER OPENING THROUGH EXISTING MASONRY PARAPET AND PROVIDE SCUPPER PER DETAIL. 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. GENERAL CONTRACTOR TO COORDINATE WITH COR BEFORE PERFORMING ANY AND ALL WORK IN THE VICINITY OF DESIGNATED EXIST. BIOHAZARDOUS AND LAB EXHAUST VENTS. 	<p>SEE GENERAL NOTES ON G100.</p> <ol style="list-style-type: none"> PROVIDE MANUFACTURER'S STANDARD DETAILS WHERE MECHANICAL EQUIPMENT OCCURS. COORDINATE WITH ARCHITECT AND ENGINEER. REMOVE ALL UNUSED OR ABANDONED ROOF CURBS, HATCHES, AND PENETRATIONS ON ROOF SURFACES WITHIN THE SCOPE OF WORK. RESTORE ROOF DECK, INSULATION & MEMBRANE SYSTEM. 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. 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. <p>ALTERNATES, DEDUCT:</p> <ol style="list-style-type: none"> 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. 	<p>ITEMS ON ROOF DECK</p> <p>ITEMS ABOVE ROOF DECK</p> <p>EQUIPMENT/PIPE CURB</p> <p>GOOSENECK VENT</p> <p>LIGHTNING PROTECTION</p> <p>ROOF DRAIN</p> <p>PLUMBING VENT</p> <p>SUPPLY/RETURN DUCTS</p> <p>EXHAUST VENT</p> <p>SCUPPER/OVERFLOW DRAIN</p> <p>EPDM ROOF PAVERS</p> <p>AREAS TREATED WITH FLUID APPLIED RESTORATION COATING, CLEAR DEBRIS & CLEAN PRIOR TO INSTALL.</p> <p>DRAINAGE CRICKET, SLOPE AS NEEDED. MAX. 1'-11" 0"</p> <p>NO WORK ON THIS ROOF</p> <p>ALTERNATE: SEE G100 AND SPECIFICATIONS FOR MORE INFO.</p> <p>SPRINKLER SYSTEM; DRY PIPE</p> <p>GUARDRAIL</p> <p>LADDER W/ CAGE AND CROSSOVER PLATFORM</p> <p>LADDER W/ CAGE AND CROSSOVER PLATFORM (NO CAGE)</p> <p>WINDOW CLEANING ANCHORAGE POINT LOCATION</p>



LEVEL 2 KEY PLAN
 SCALE: 1/64" = 1'-0"



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

Revisions:	Date

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

LUKE J. LEISING
 REGISTERED ARCHITECT
 No. AR10700021
 STATE OF MARYLAND

ARCHITECT/ENGINEERS:
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 CONSULTING SERVICES
 JOINT VENTURE

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 Architect, Structural Engineer, Civil Engineer
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 317.800.6388
 WWW.GUIDONDESIGN.COM
 SUSTAINABLE ARCHITECTURE + ENGINEERING

Drawing Title
LEVEL 1 & 2 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.

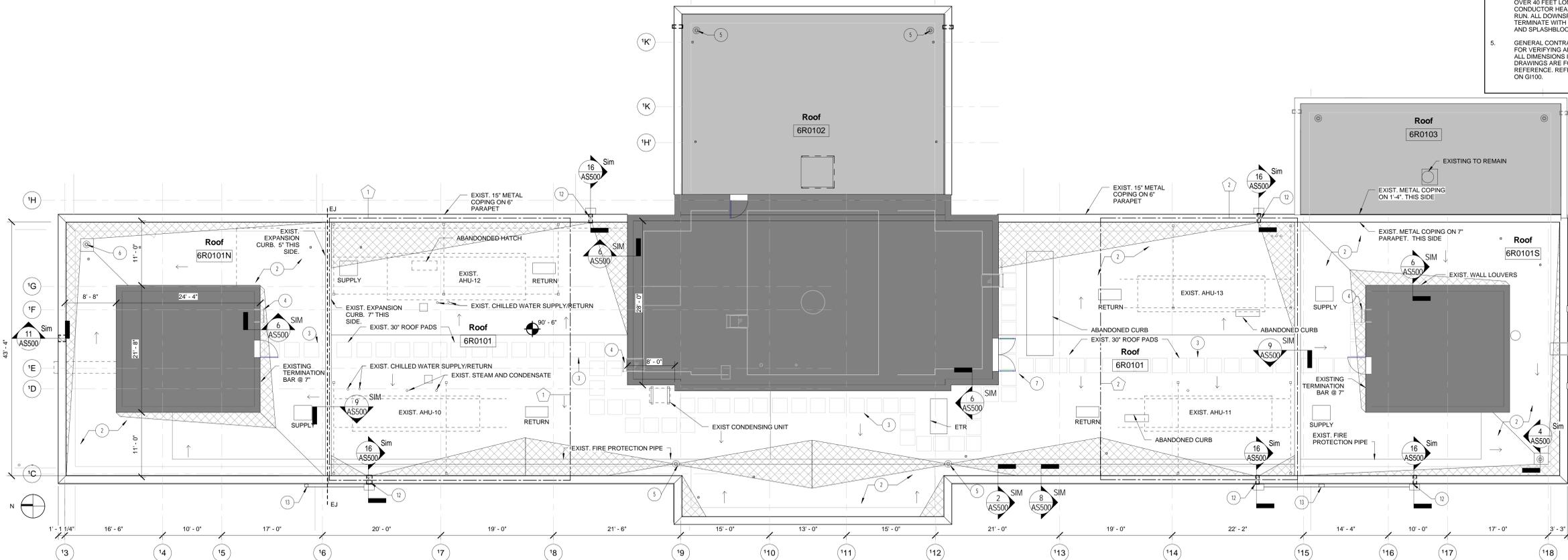
Drawing Number
AS101

Office of Facilities Management
 VA Project Number
540-13-308

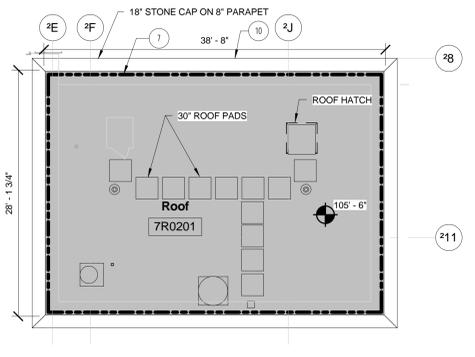
U.S. Department of Veterans Affairs

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.	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.

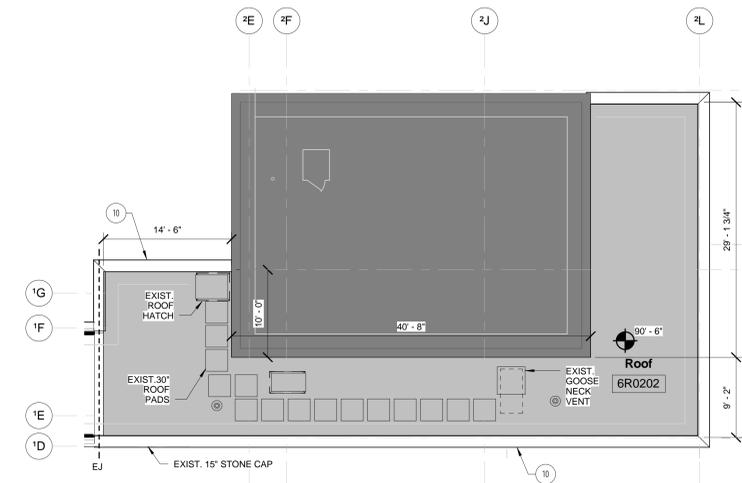
ROOF DRAWING SYMBOLS	
	ITEMS ON ROOF DECK
	ITEMS ABOVE ROOF DECK
	EQUIPMENT/PIPE CURB
	GOOSENECK VENT
	LIGHTNING PROTECTION
	ROOF DRAIN
	PLUMBING VENT
	SUPPLY/RETURN DUCTS
	EXHAUST VENT
	SCUPPER/OVERFLOW DRAIN
	EPDM ROOF PAVERS
	AREAS TREATED WITH FLUID APPLIED RESTORATION COATING. CLEAR DEBRIS & CLEAN PRIOR TO INSTALL.
	DRAINAGE CRICKET. SLOPE AS NEEDED. MAX. 1'-11-0"
	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



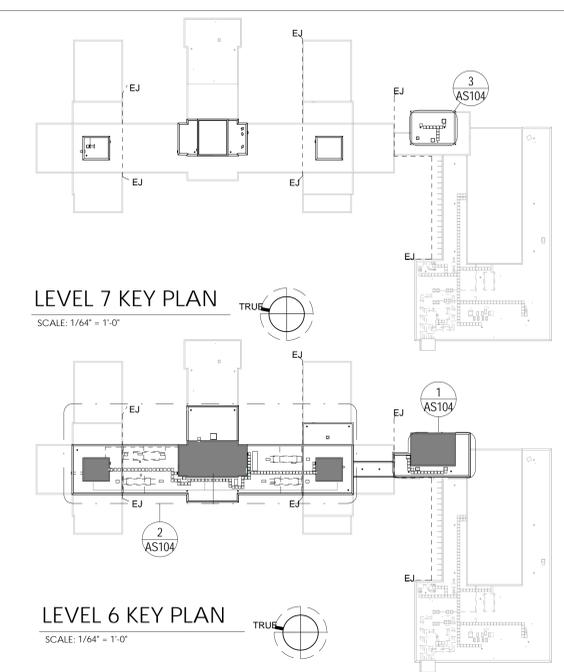
2 LEVEL 6 ENLARGED ROOF PLAN
SCALE: 1/8" = 1'-0"



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"

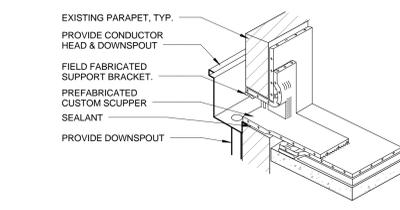
- SPECIFIC PLAN NOTES**
- NOTE: NOT ALL SPECIFIC PLAN NOTES APPEAR ON EVERY SHEET. THIS LIST INCLUDES ALL SPECIFIC PLAN NOTES FOR THE ENTIRE PROJECT.
- CUT OUT & REMOVE EXISTING ROOF SYSTEM WITH METALLED INSULATION. PROVIDE NEW INSULATION, COVER BOARD AND EPDM MEMBRANE. MAINTAIN EXISTING ROOF SLOPE. 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. 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.
 - REMOVE EXISTING WALKWAY PADS AS REQUIRED FOR NEW CONSTRUCTION. UPON COMPLETION OF ROOF RESTORATION, INSTALL NEW WALKWAY PADS IN SAME LOCATION. EXISTING EXISTING LADDER. MODIFY LOOSE END LENGTH TO BE NO LESS THAN 8' ABOVE EPDM.
 - CLEAN ROOF DRAIN AND PIPE. VIDEO STORM FOR CLEAR OBSTRUCTIONS UNTIL STORM DRAINS LATERAL BELOW GRADE.
 - REMOVE ROOF DRAIN AND REPLACE WITH NEW ROOF DRAIN OF EQUAL SIZE EXISTING LIGHTNING PROTECTION REMOVE FOR WORK. REINSTALL.
 - NOT USED
 - REMOVE, REFLASH, AND REPLACE STONE CAP
 - PROVIDE NEW WALK PADS, TYPICAL. MATCH EXISTING
 - PROVIDE NEW ROOF SCUPPER OPENING THROUGH EXISTING MASONRY PARAPET AND PROVIDE SCUPPER PER DETAIL 16(A)5500.
 - 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. GENERAL CONTRACTOR TO COORDINATE WITH COR BEFORE PERFORMING ANY AND ALL WORK IN THE VICINITY OF DESIGNATED EXIST. BIOHAZARDOUS AND LAB EXHAUST VENTS.

- 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.

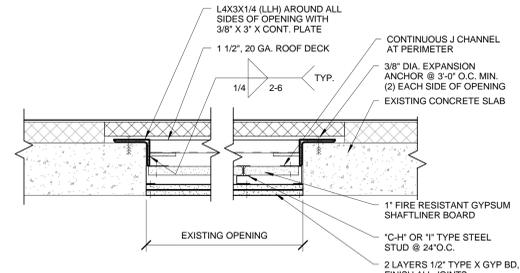
BID DOCUMENTS

 U.S. Department of Veterans Affairs VAMC CLARKSBURG 1 MED CENTER DRIVE CLARKSBURG, WV 26301	 ARCHITECT/ENGINEERS: ESTIMATOR KRC CRAWFORD CONSULTING SERVICES JOINT VENTURE	 ARCHITECT/ENGINEERS: ROOFING CONSULTANT AECOM	 ARCHITECT Architect, Structural Engineer, Civil Engineer GUIDON DESIGN 905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING	Drawing Title LEVEL 6 & 7 ROOF PLANS	Project Title REPLACE ROOF MAIN BUILDING AND CLINICAL ADDITION	Project Number 13.1065.03	OFFICE OF FACILITIES MANAGEMENT VA Project Number 540-13-308
				Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location LOUIS A. JOHNSON VAMC	Building Number BLG. 1 + ADD.	
Revisions:	Date	Date 04-07-2016	Checked By: STW	Drawn By: ARO	Date 04-07-2016	Checked By: STW	Drawn By: ARO

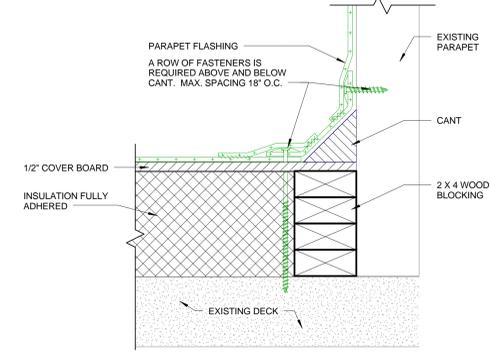
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 U113_1065.003 - VA Clarksburg Ro. Roof - 100_logrowwall.vvt



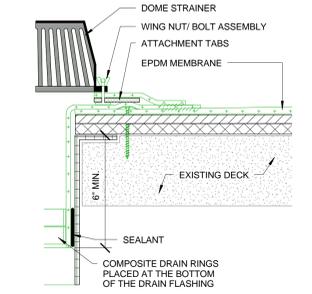
16 CLOSED END SCUPPER
 SCALE: 3" = 1'-0"



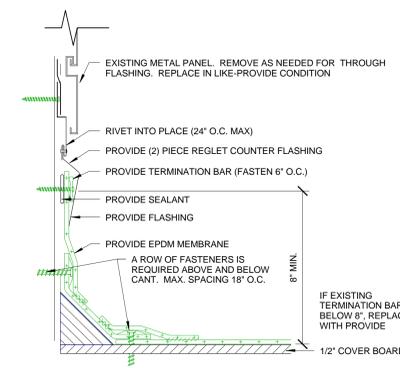
12 ROOF INFILL FIRE RATING BASIS OF DESIGN - AER-09038
 SCALE: 1 1/2" = 1'-0"



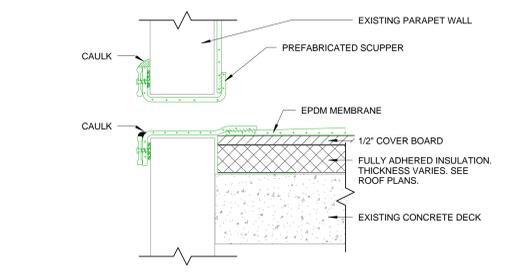
8 CANTED WALL DETAIL
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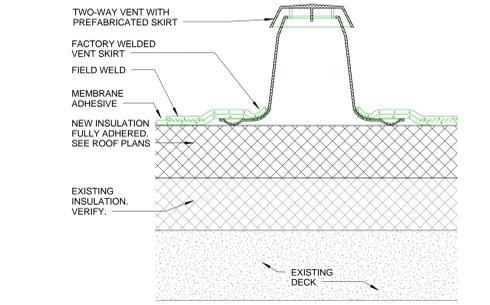
4 ROOF DRAIN DETAIL
 SCALE: 3" = 1'-0"



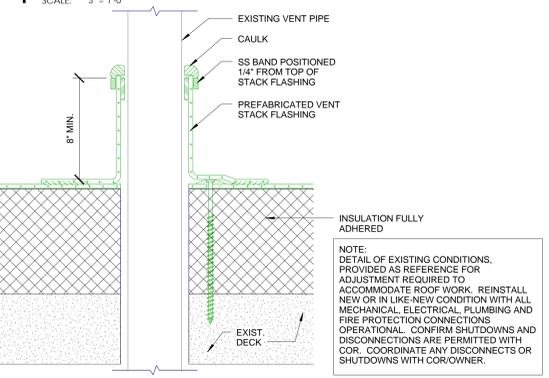
15 REGLET COUNTER FLASHING @ METAL PANEL
 SCALE: 3" = 1'-0"



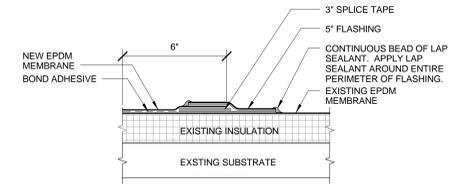
11 OVERFLOW SCUPPER DETAIL
 SCALE: 3" = 1'-0"



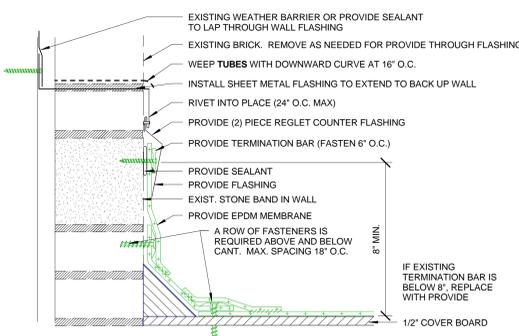
7 TWO-WAY VENT DETAIL
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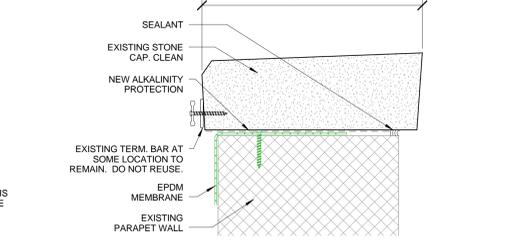
3 ROUND PENETRATION DETAIL
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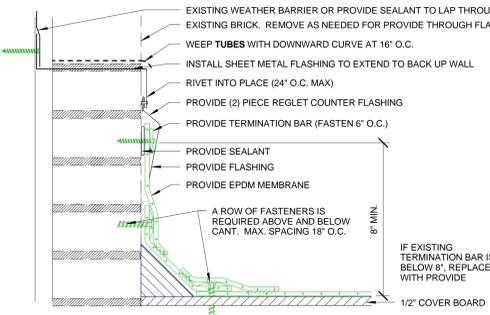
18 TIE-IN TO EXISTING EPDM SYSTEM
 SCALE: 3" = 1'-0"



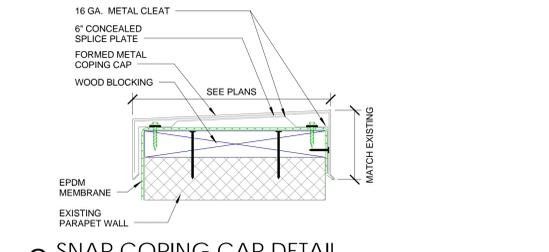
14 REGLET COUNTER FLASHING @ STONE BASE
 SCALE: 3" = 1'-0"



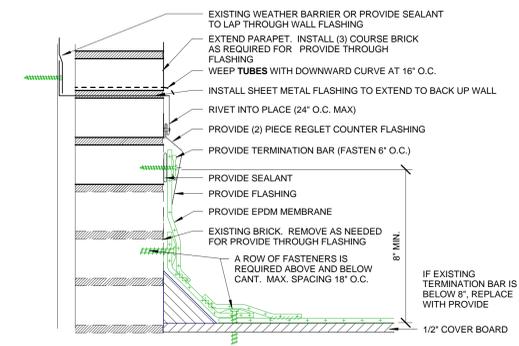
10 STONE COPING CAP DETAIL
 SCALE: 3" = 1'-0"



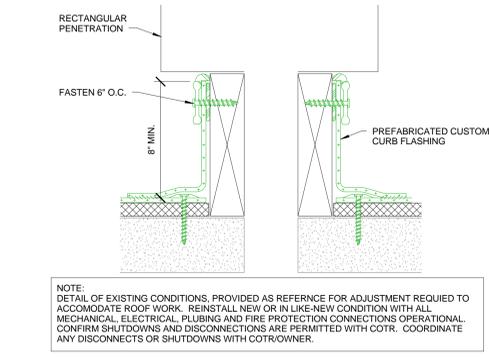
6 NEW - REGLET COUNTER FLASHING
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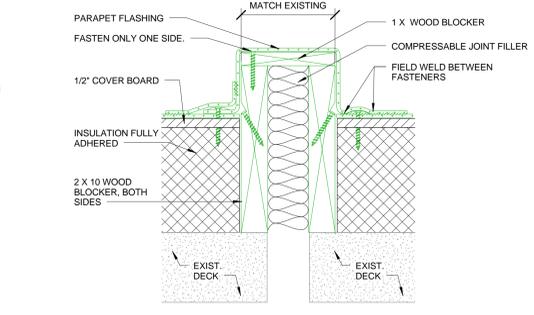
2 SNAP COPING CAP DETAIL
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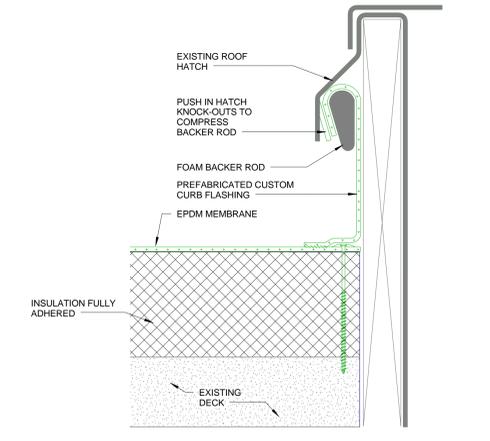
17 NEW REGLET COUNTER FLASHING @ EXTENDED PARAPET WALL
 SCALE: 3" = 1'-0"



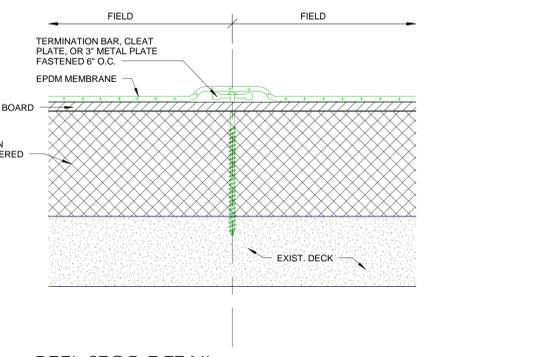
13 RECTANGULAR PENETRATION
 SCALE: 3" = 1'-0"



9 CURB STYLE EXPANSION JOINT
 SCALE: 3" = 1'-0"



5 ROOF HATCH FLASHING DETAIL
 SCALE: 3" = 1'-0"



1 PEEL STOP DETAIL
 SCALE: 3" = 1'-0"

Revisions:	Date

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

LUKE J. LEISING
 REGISTERED ARCHITECT
 No. AR10700021
 STATE OF WEST VIRGINIA

ARCHITECT/ENGINEERS:
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BID DOCUMENTS			
Drawing Title TYPICAL DETAILS	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.	VA Project Number 540-13-308
Date 04-07-2016	Checked By: STW	Drawn By: ARO	Drawing Number AS500

