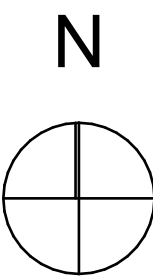
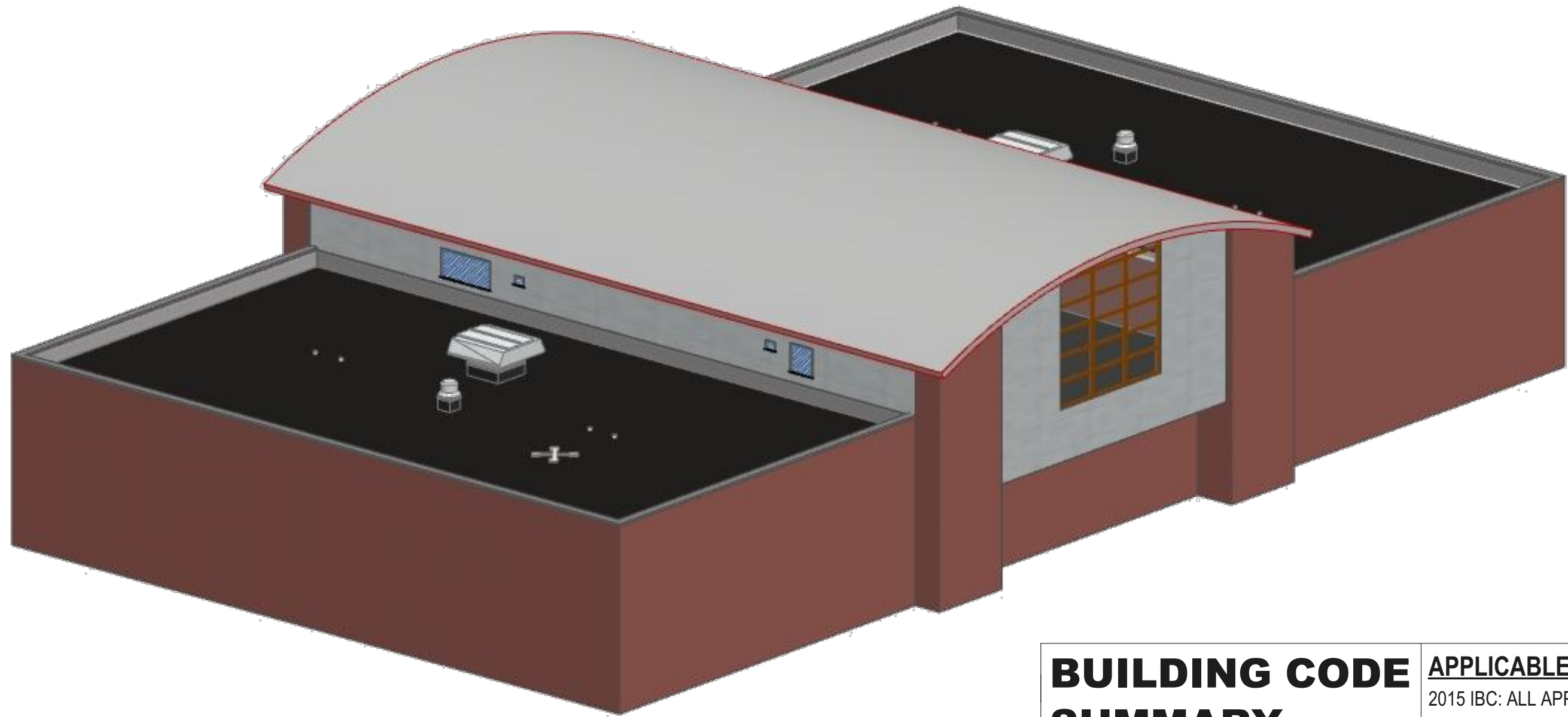
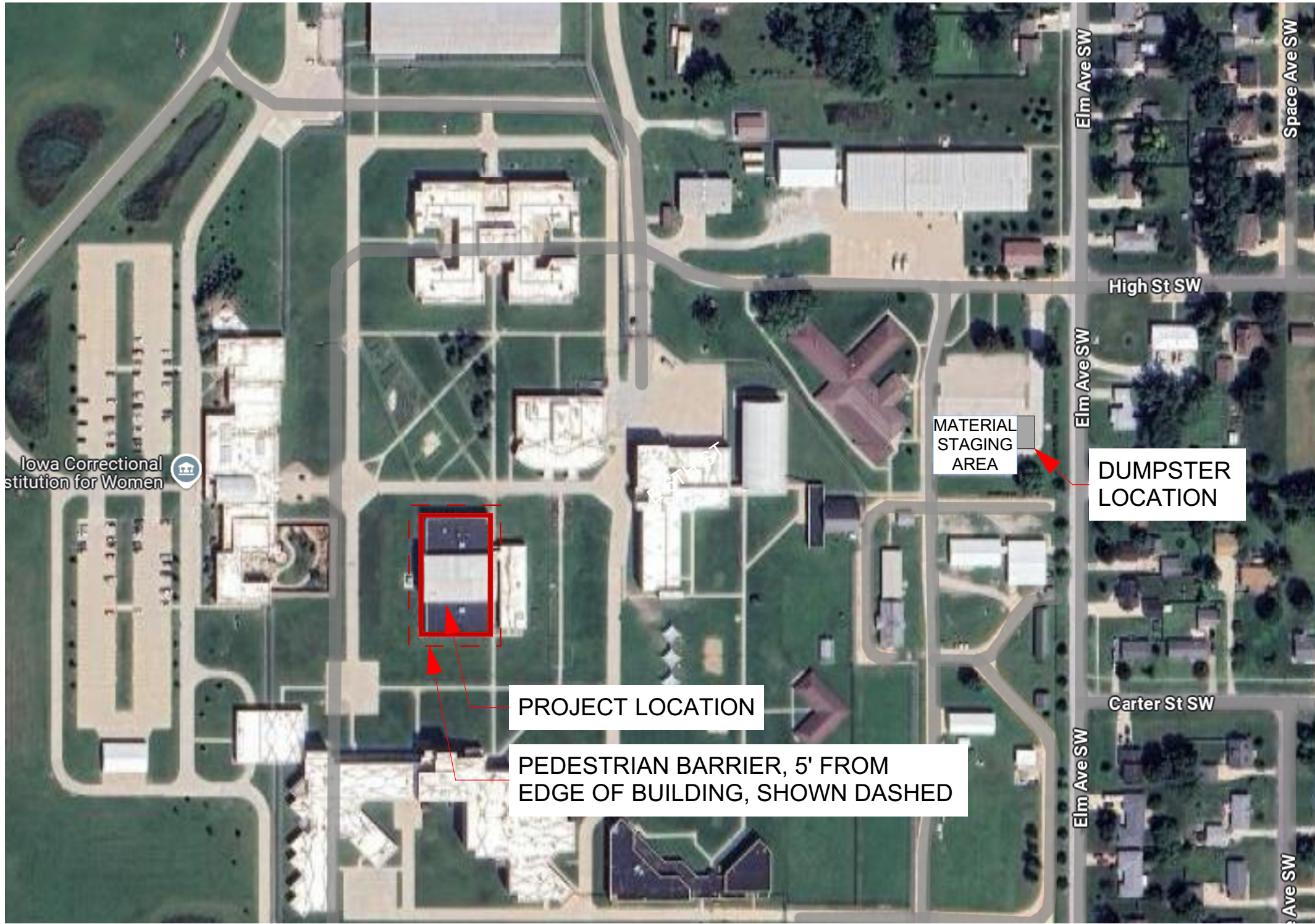


ICIW BUILDING 9 ROOF REPLACEMENT

PROJECT # 9454.00

Iowa Department of Corrections Building 9
Mitchellville, IA 50169

SHEET INDEX	
ID	Name
C-101	COVER SHEET
C-102	ROOF LOADING DIAGRAM
A-101	DEMO ROOF PLAN
A-102	ROOF PLAN
A-501	ROOF DETAILS



1 PROJECT LOCATION
NOT TO SCALE

2 3D VIEW
SCALE: 1:50.53

ABBREVIATIONS

A.D. AREA DRAIN	DN. DOWN	HORIZ. HORIZONTAL	PL. LAM. PLASTIC LAMINATE	U.L. UNDERWRITERS
ABV. ABOVE	DWG. DRAWING	HT. HEIGHT	QTY. QUANTITY	R. RISER
ADA. ACCESSIBLE / AMERICANS WITH DISABILITIES ACT	DEPT. DEPARTMENT	INSUL. INSULATION / INSULATING	R. RAIN WATER CONDUCTOR	VEST. VESTIBULE
ADJ. ADJUSTABLE	DBL. DOUBLE	I.D. INSIDE DIAMETER	REIN. REINFORCING / REINFORCED	V.C.T. VINYL COMPOSITION TILE
A.O.R. AREA OF REFUGE	DM. DIMENSION	JAN. JANITOR	REQ. REQUIRED	W. WITH
ALUM. ALUMINUM	EXIST. EXISTING	JT. JOINT	R.O. ROUGH OPENING	W.C. WATER CLOSET
ALT. ALTERNATE	EQ. EQUAL	LBS. POUNDS	REF. REFLECTED	WD. WOOD
A.F.F. ABOVE FINISHED FLOOR	E.C. ELECTRICAL CONTRACTOR	LAV. LAVATORY	REC. RECESSED	
AC. ACOUSTIC / ACOUSTICAL	EL. ELEVATION	L.P. LOW POINT	RAD. RADIUS	
A.F. ALUMINUM FACE	ELEC. ELEVATOR	L.P. LOW POINT	ST. STREET	
APPX. APPROXIMATE / APPROXIMATELY	ELEC. ELECTRIC / ELECTRICAL	MAX. MAXIMUM	S.S. STAINLESS STEEL	
BD. BOARD	EXP. EXPANSION	MFR. MANUFACTURER / MANUFACTURED	ST. STREET	
BLK. BLOCK / BLOCKING	EXT. EXTERIOR	MTL. METAL	SIM. SIMILAR	
BLDG. BUILDING	EA. EACH	MIN. MINIMUM	STL. STEEL	
B.O. BOTTOM OF	F.D. FLOOR DRAIN	MIR. MIRROR	SQ. SQUARE	
B.O.S. BOTTOM OF STEEL	F.E. FIRE EXTINGUISHER	MTD. MOUNTED	SAN. SANITARY	
CAB. CABINET	CABINET	M.O. MASONRY OPENING	SUSP. SUSPENDED	
C.C. CENTER-TO-CENTER	FIN. FINISH / FINISHED	MISC. MISCELLANEOUS	STD. STANDARD	
C.G. CEILING	FLR. FLOOR	MECH. MECHANICAL	SPEC. SPECIFICATION	
CLOS. CLOSET	F.O. FACE OF	N.C. NOT IN CONTRACT	TEL. TELEPHONE	
C.M. CONSTRUCTION MANAGER	FT. FEET / FOOT	NO. NUMBER	T.O. TOP OF	
CMU. CONCRETE MASONRY UNIT	FLUOR. FLUORESCENT	N.T.S. NOT TO SCALE	T.O.S. TOP OF STEEL	
C.J. CONTROL JOINT	GYP. GYPSUM	O.C. ON CENTER	T.O.W. TOP OF WALL	
CONC. CONCRETE	GALV. GALVANIZED	O.D. OUTSIDE DIAMETER	TOIL. TYPICAL	
CORR. CORRIDOR	GA. GAUGE	OPP. OPPOSITE	THK. THICK	
COL. COLUMN	G.C. GENERAL CONTRACTOR	OPG. OPENING	TMP. TEMPERED	
CONT. CONTINUE / CONTINUOUS	HR. HOUR	PLUMBING CONTRACTOR	T.S.G. TEMPERED SAFETY GLASS	
CONTR. CONTRACTOR	H.P. HIGH POINT	P.C. PANEL FACE	U.O.N. UNLESS OTHERWISE NOTED	
DIA. DIAMETER	HVAC. HEAT, VENTILATION, AIR-CONDITIONING	PR. PAIR		
DTL. DETAIL		P.T. PRESSURE TREATED		

GRAPHIC SYMBOLS

WINDOW MARKER

SKYLIGHT MARKER

DOOR IDENTIFIERS

DOOR IDENTIFIER (ELEVATIONS/SECTIONS)
6" TYPICAL, UNLESS OTHERWISE NOTED

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

SECTION / DETAIL MARKER

INDICATES SECTION LOCATION ON SHEET
INDICATES SHEET ON WHICH DRAWING IS SHOWN

INTERIOR ELEVATION MARKER

INDICATES ELEVATION LOCATION ON SHEET
INDICATES SHEET ON WHICH ELEVATION IS SHOWN

ELEVATION / SECTION MARKER

INDICATES ELEVATION LOCATION ON SHEET
INDICATES SHEET ON WHICH DRAWING IS SHOWN

DETAIL / ENLARGED PLAN MARKER

INDICATES DETAIL LOCATION ON SHEET
INDICATES SHEET ON WHICH DETAIL IS SHOWN

SPACE DESIGNATION

OFFICE
SPACE NAME
SPACE NUMBER
ENLARGED PLAN REFERENCE

WALL TYPE MARKER

KEYNOTE IDENTIFIER
KEYNOTE: SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT
ALTERNATE KEYNOTE: SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT

BUILDING CODE SUMMARY

APPLICABLE CODES AND ORDINANCES

2015 IBC: ALL APPLICABLE CHAPTERS
ANSI 117.1, 2009 EDITION: ALL APPLICABLE CHAPTERS

PROJECT SCOPE:

REPLACEMENT OF MEMBRANE ROOF ON BUILDING 9

BUILDING AND PROJECT DATA

BUILDING DESCRIPTION AND USE 1 STORY BLDG + MEZZANINE. CORRECTIONAL, HOUSING

REFERENCE FULL BUILDING DRAWINGS FOR CODE INFORMATION ADDRESSING THE EXISTING BUILDING

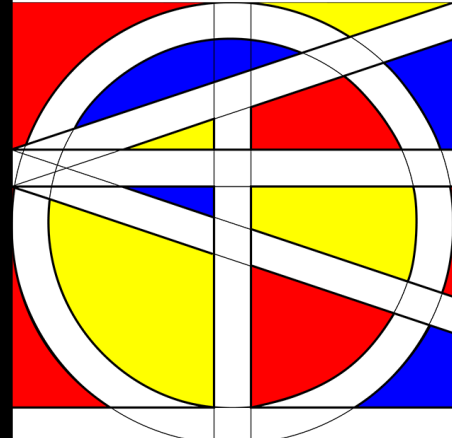
	IBC 2015	REQUIRED/ALLOWED	PROVIDED
USE AND OCCUPANCY	CHAPTER 3		I-3
CONSTRUCTION TYPE	SECTION 602 AND TABLE 601		II A
AUTOMATIC SPRINKLER SYSTEM	SECTION 903	YES	YES
BUILDING HEIGHT	TABLE 504.3	85' MAX.	APPX. 45'-0"
BUILDING STORIES	TABLE 504.4	3	1.5
LARGEST FLOOR AREA / STORY/1ST FLOOR AREA	TABLE 506.2	45,000 SQ. FT.	18,280 SQ. FT.
MEZZANINE FLOOR AREA	SECTION 505	6,094 SQ. FT.	4,025 SQ. FT.

OCCUPANCY CALCS	AREA	REQUIRED	OCCUPANT LOAD
1ST FLOOR	18,280 SQ. FT.	120 SQ. FT. / PERSON (GROSS)	152
MEZZANINE	4,025 SQ. FT.	120 SQ. FT. / PERSON (GROSS)	34
ALL OCCUPANCIES	22,305 SQ. FT.		186

FIRE RESISTANCE RATINGS	IBC 2015	REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME	TABLE 601 AND SECTION 704	1 HOURS	1 HOURS MIN
BEARING WALLS			
EXTERIOR	TABLE 601, 602, 721 & SECTION 705	1 HOURS	1 HOURS MIN
INTERIOR	TABLE 601	1 HOURS	1 HOURS MIN
NONBEARING WALLS AND PARTITIONS			
EXTERIOR	TABLE 601, 602 & SECTION 705	0 HOURS	0 HOURS MIN
INTERIOR	TABLE 601	0 HOURS	0 HOURS MIN
FLOOR CONSTRUCTION	TABLE 601	1 HOURS	1 HOURS
ROOF CONSTRUCTION	TABLE 601	1 HOURS	1 HOURS MIN
EXTERIOR WALL OPENINGS			
UNPROTECTED	TABLE 705.8.3	NOT REQUIRED	NOT REQUIRED
PROTECTED	TABLE 705.8.2	NOT REQUIRED	NOT REQUIRED

MEANS OF EGRESS	IBC 2015	REQUIRED	PROVIDED
MAXIMUM PATH OF COMMON EGRESS TRAVEL	SECTION 1006.2.1	100'	<100'
MAXIMUM EXIT ACCESS TRAVEL DISTANCE	SECTION 1017 & TABLE 1017.2	200'	<200'
MINIMUM CORRIDOR WIDTH	SECTION 1020	44"	44"
MAXIMUM DEAD END	SECTION 1020	50'	<50'
MINIMUM NUMBER OF EXITS	SECTION 1006 & TABLE 1006.3.2	2	8

horizon.
original.
architecture.



IOWA CORRECTIONAL
INSTITUTION FOR WOMEN
ROOF REPLACEMENT

Iowa Department of Corrections
Mitchellville, IA 50169

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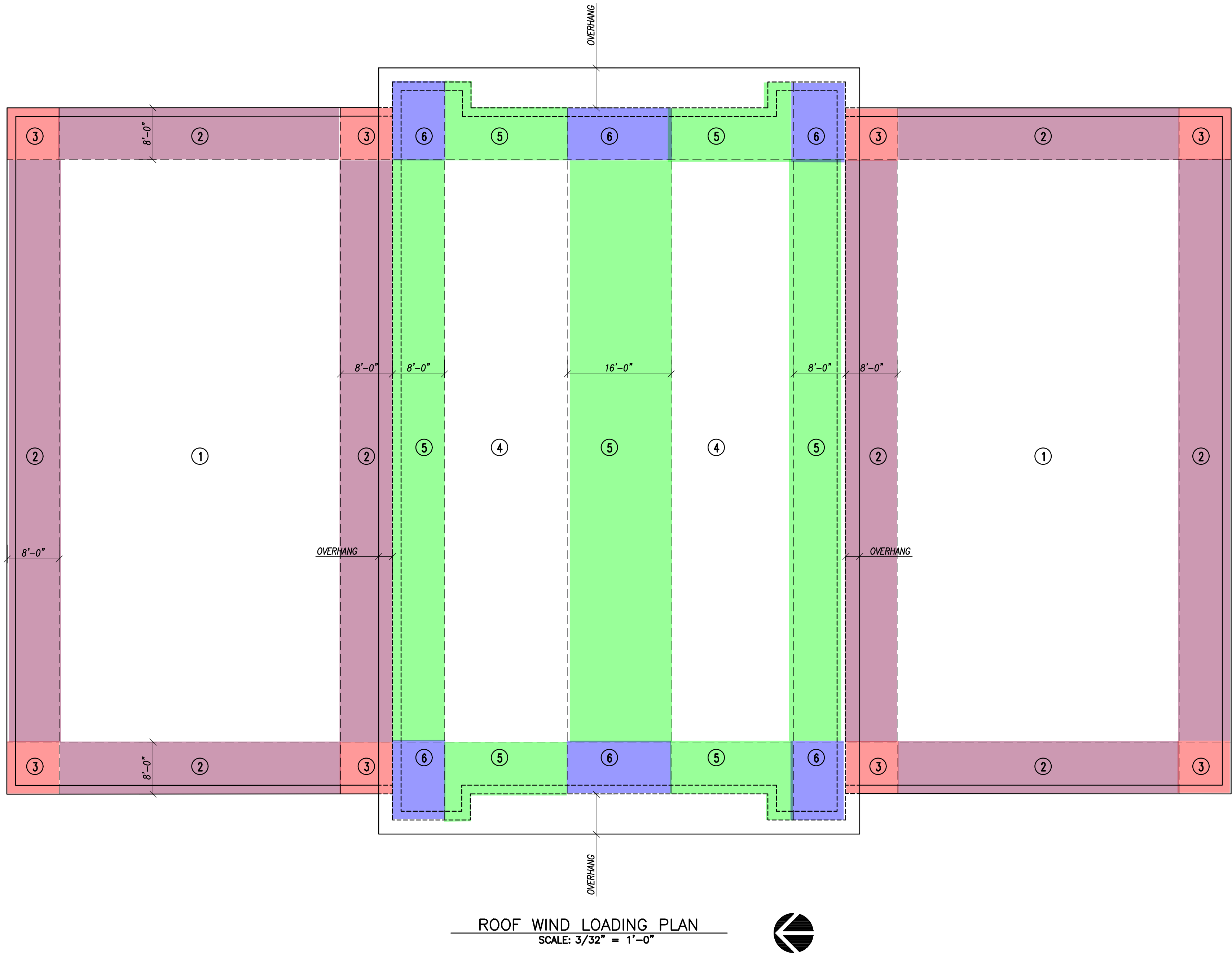
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SHEET TITLE

COVER SHEET

C-101

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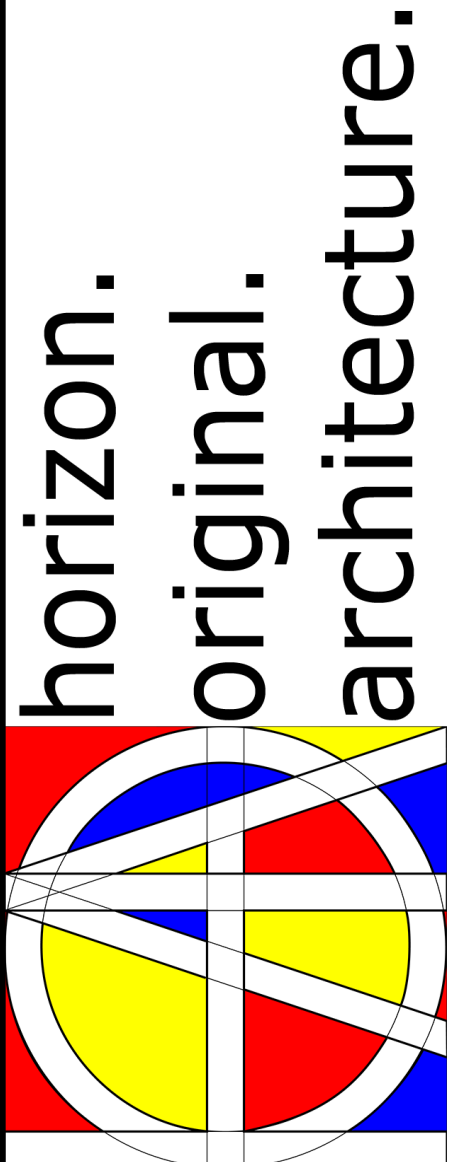
ROOF WIND LOADING NOTES

1. Design Code: International Building Code, 2015 Edition (IBC-2015), Building Risk Category "III".
2. Wind Load Criteria (ASCE 7-16):
Nominal (Ult) Wind Speed 120 MPH (3-Second Gust)
Risk Category III
Wind Exposure "C"
Internal Pressure Coefficient ... +/-0.18

NOMINAL ROOF WIND LOADING		
ZONE	INWARD	OUTWARD
①	16 psf	33.4 psf
②	16 psf	56.0 psf
③	16 psf	84.2 psf
④	22.2 psf	35.2 psf
⑤	22.2 psf	61.3 psf
⑥	22.2 psf	90.6 psf
OVERHANG	22.2 psf	126 psf

Wind pressures indicated are Nominal (Ultimate) wind loads.
Multiply pressures listed by 0.6 for Service (Allowable) wind loads.

ISSUED FOR BIDDING



IOWA CORRECTIONAL
INSTITUTION FOR WOMEN
ROOF REPLACEMENT

Iowa Department of Corrections
Mitchellville, IA 50169

MARK	DATE	DESCRIPTION

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SHEET TITLE
**ROOF LOADING
DIAGRAM**

C-102

Iowa Department of Corrections
Mitchellville, IA 50169

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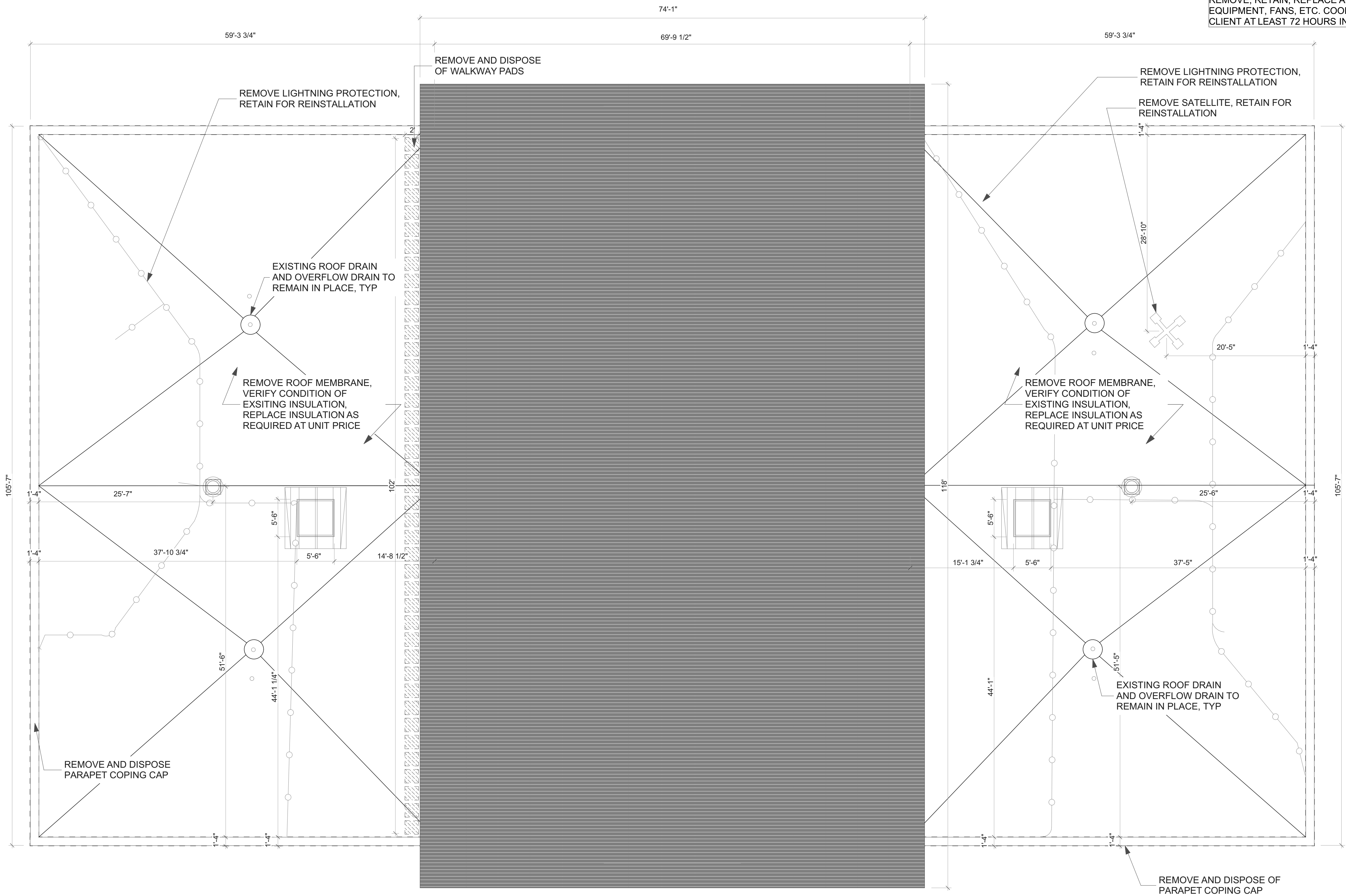
SHEET TITLE
DEMO ROOF PLAN

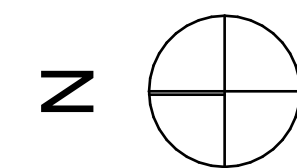
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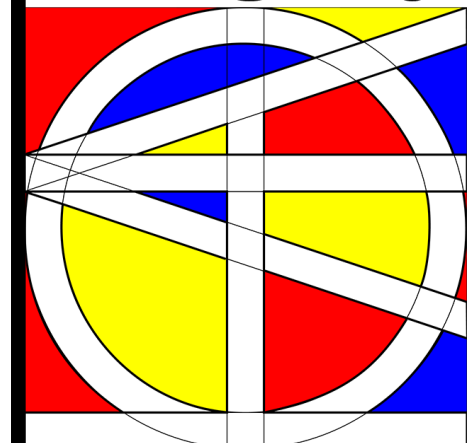


1. REMOVE ALL PARAPET COPING, DRIP EDGE, FLASHING, TERMINATION BARS AND DAMAGED ROOF EDGE BLOCKING.
2. REMOVE AND DISPOSE OF EXISTING ROOF MEMBRANE.
3. VERIFY CONDITION OF EXISTING INSULATION, REMOVE AND DISPOSE OF DAMAGED MATERIAL.
4. ROOF PENETRATIONS AND FIXTURE LOCATIONS SHOWN ARE APPROXIMATE ONLY. TO BE FIELD LOCATED AND IDENTIFIED BY CONTRACTOR.
5. DIMENSIONS SHOWN ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. DIMENSIONS TO BE VERIFIED IN FIELD BY CONTRACTOR.
6. ALL ROOFTOP EQUIPMENT TO REMAIN IN OPERATION DURING CONSTRUCTION UNLESS COORDINATED OTHERWISE.
7. UNLESS OTHERWISE NOTED, ALL PENETRATIONS, EQUIPMENT, AND APPLIANCES ARE EXISTING TO REMAIN.
8. ROOF CONTRACTOR RESPONSIBLE FOR WORK REQUIRED TO DISCONNECT, REMOVE, RETAIN, REPLACE AND RECONNECT, ANY EXISTING ROOFTOP EQUIPMENT, FANS, ETC. COORDINATE ANY SERVICE INTERRUPTIONS WITH CLIENT AT LEAST 72 HOURS IN ADVANCE.





1. ROOF TO BE FULLY ADHERED .060 TPO MEMBRANE OVER MECHANICALLY FASTENED FIBERGLASS-REINFORCED POLYISOCYANURATE COVERBOARD (1/2" SECURESHIELD HD PLUS OR APPROVED EQUAL) FASTENED WITH 3" PLATES AND SCREWS AS REQUIRED TO ENSURE 1" MIN EMBEDMENT IN STEEL DECK.
2. 10 FASTENERS PER COVERBOARD OR AS REQUIRED TO MEET MANUFACTURER'S REQUIREMENT FOR FM-90, FM-150 AT CORNERS UPLIFT COMPLIANCE.
3. PROVIDE POSITIVE SLOPE OF AT LEAST 1/2": 1'-0" WHERE CRICKETS ARE INDICATED ON ROOF PLAN.
4. MEMBRANE TO WRAP OVER THE TOP OF PARAPETS AT ALL LOCATIONS.
5. MEMBRANE TO EXTEND A MINIMUM OF 8" VERTICALLY AT ADJACENT SURFACES.
6. CONTRACTOR RESPONSIBLE FOR WORK REQUIRED TO REMOVE AND REPLACE ANY EXISTING ROOFTOP EQUIPMENT, FANS, ECT. COORDINATE ANY SERVICE INTERRUPTION WITH CLIENT AT LEAST 72 HOURS IN ADVANCE.
7. PROVIDE UNIT COST (48"x24") POLYISO FIELD INSULATION FOR DAMAGED/WET ROOF INSULATION ENCOUNTERED DURING DEMOLITION.



**IOWA CORRECTIONAL
INSTITUTION FOR WOMEN
ROOF REPLACEMENT**

Iowa Department of Corrections
Mitchellville, IA 50169

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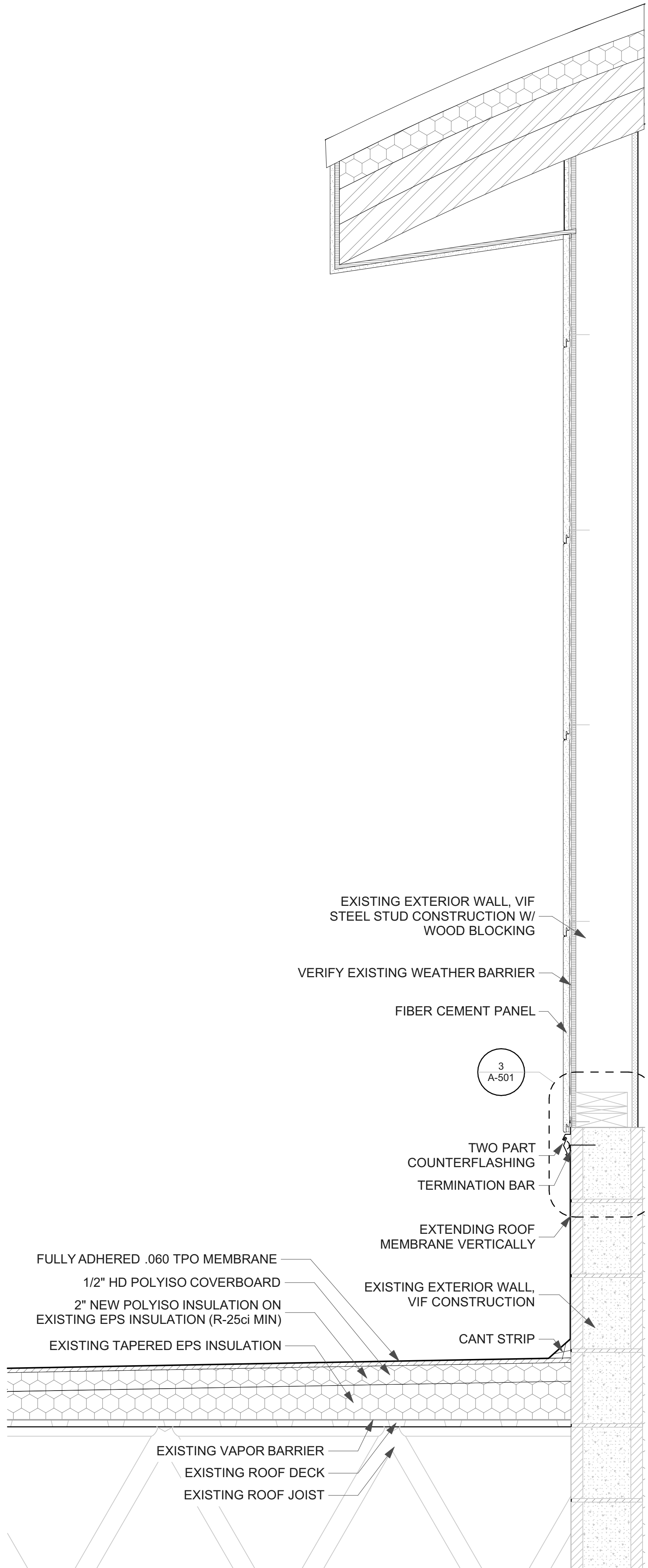
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ROOF PLAN

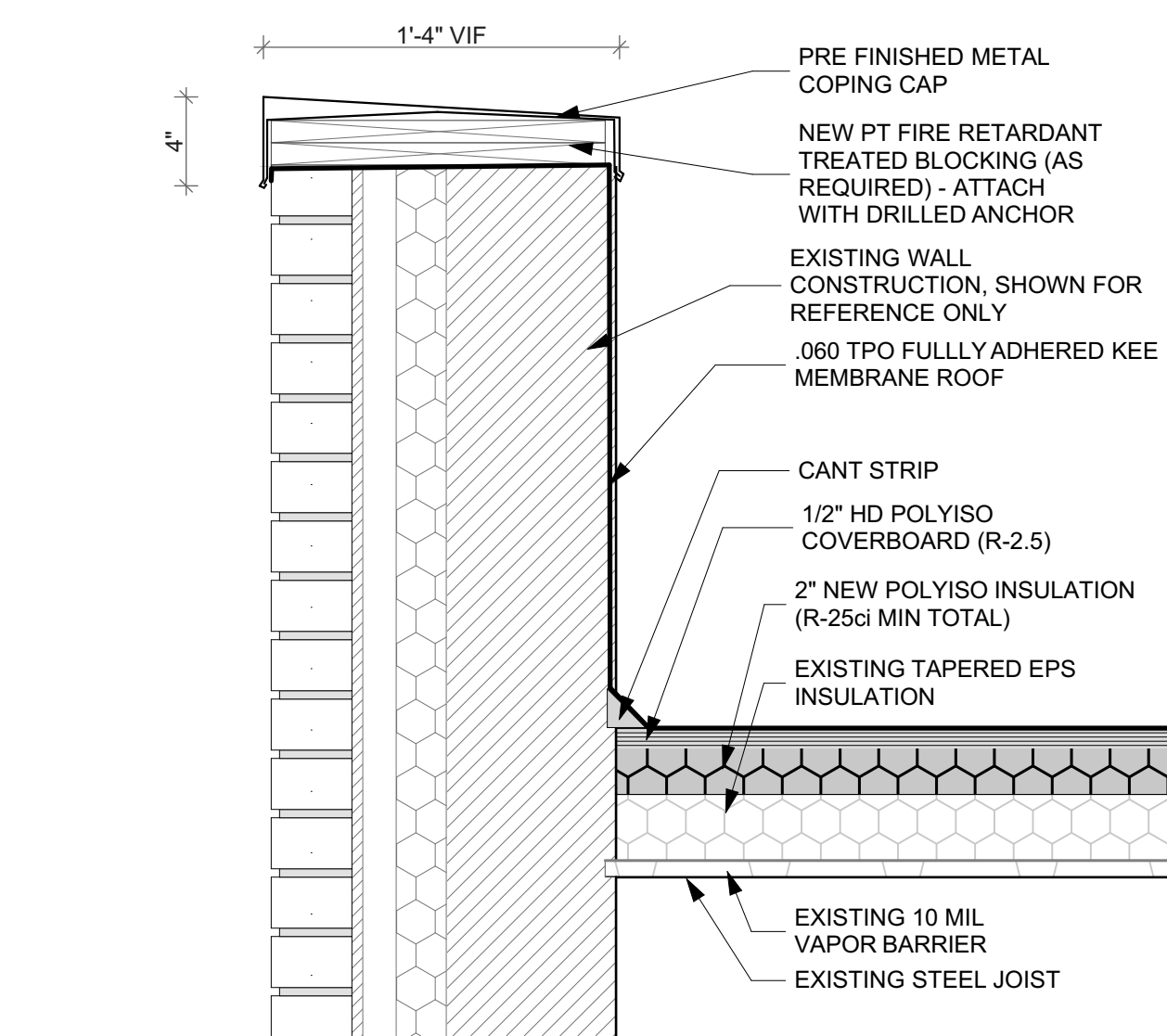
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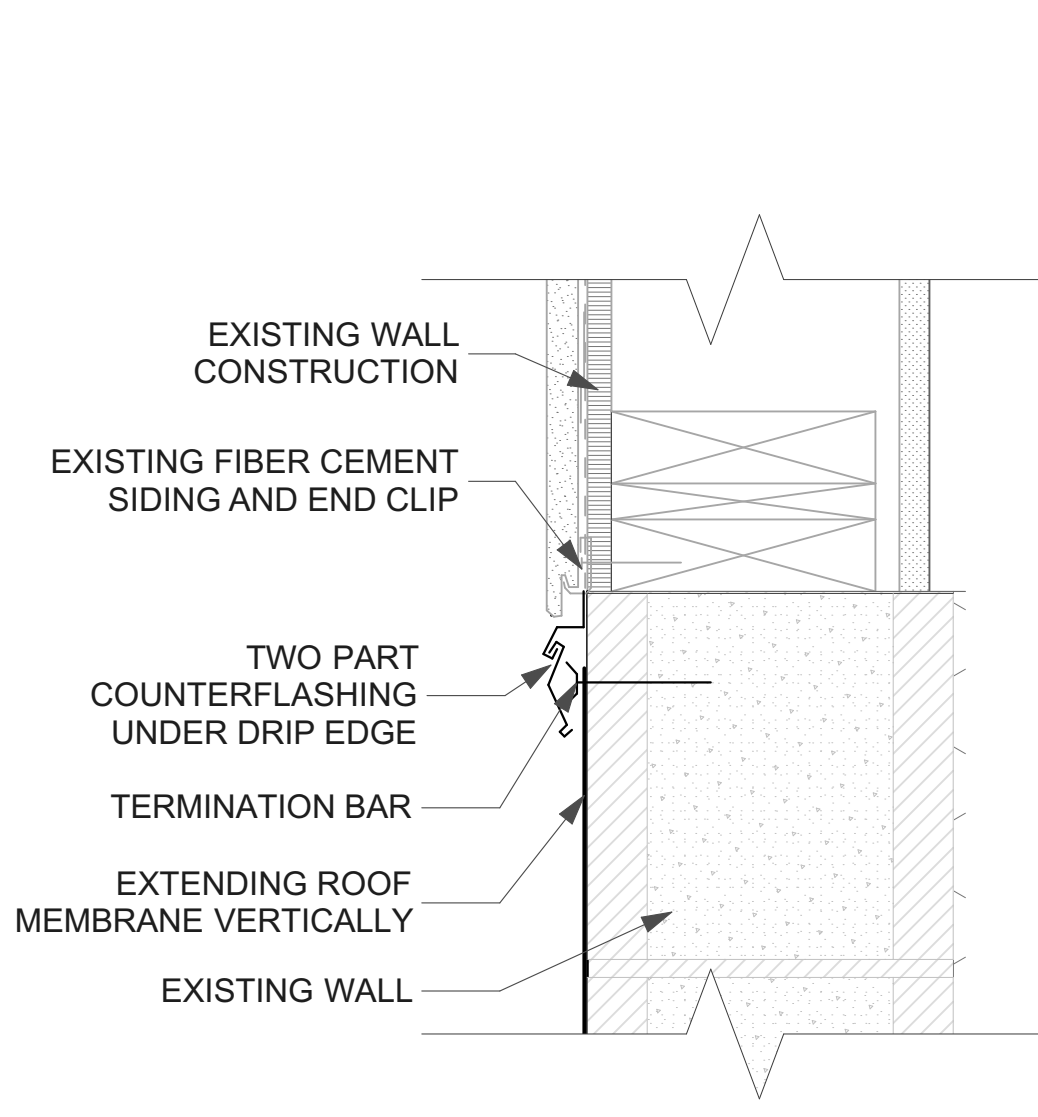
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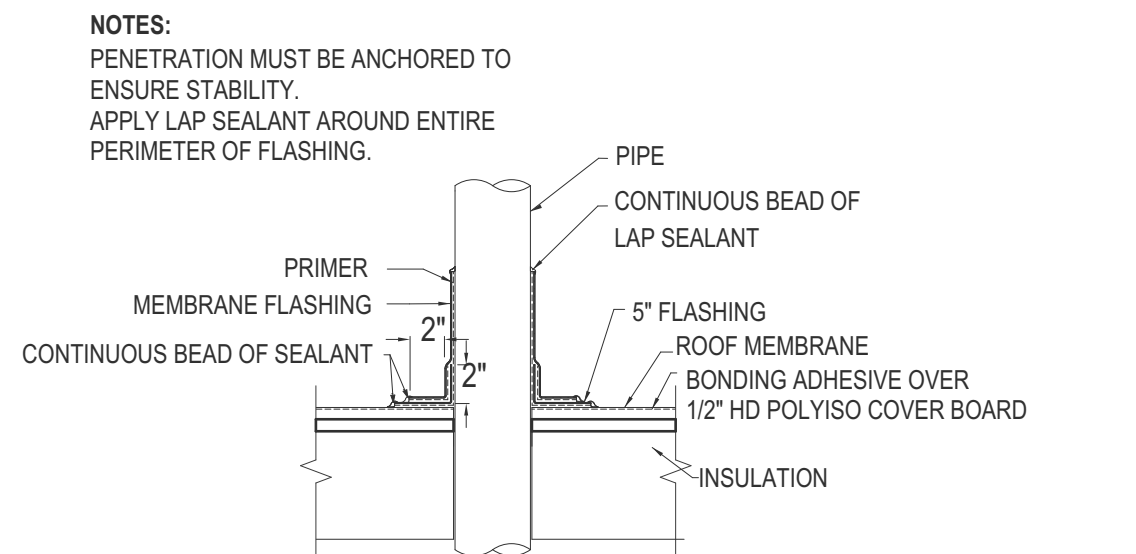
1 ROOF TO WALL TRANSITION
SCALE: 1 1/2" = 1'-0"



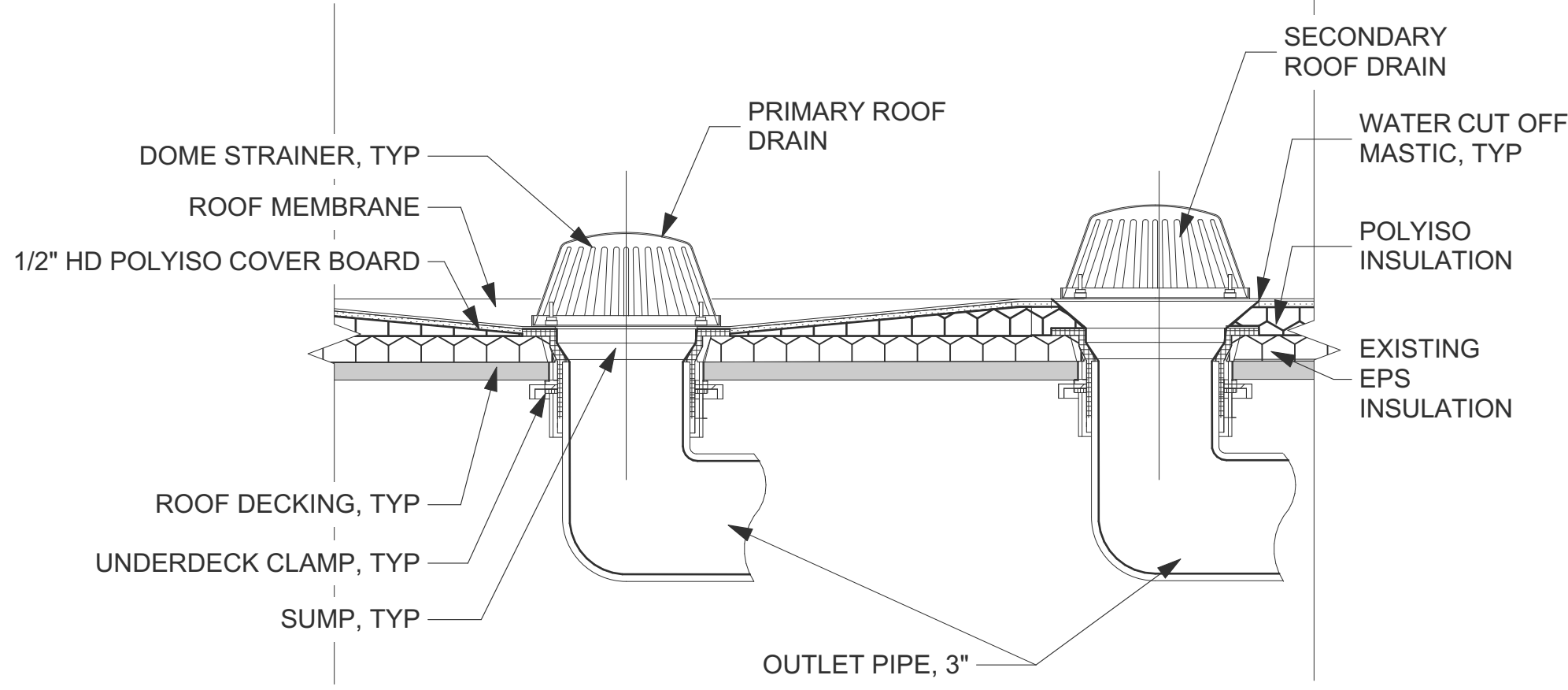
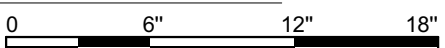
2 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



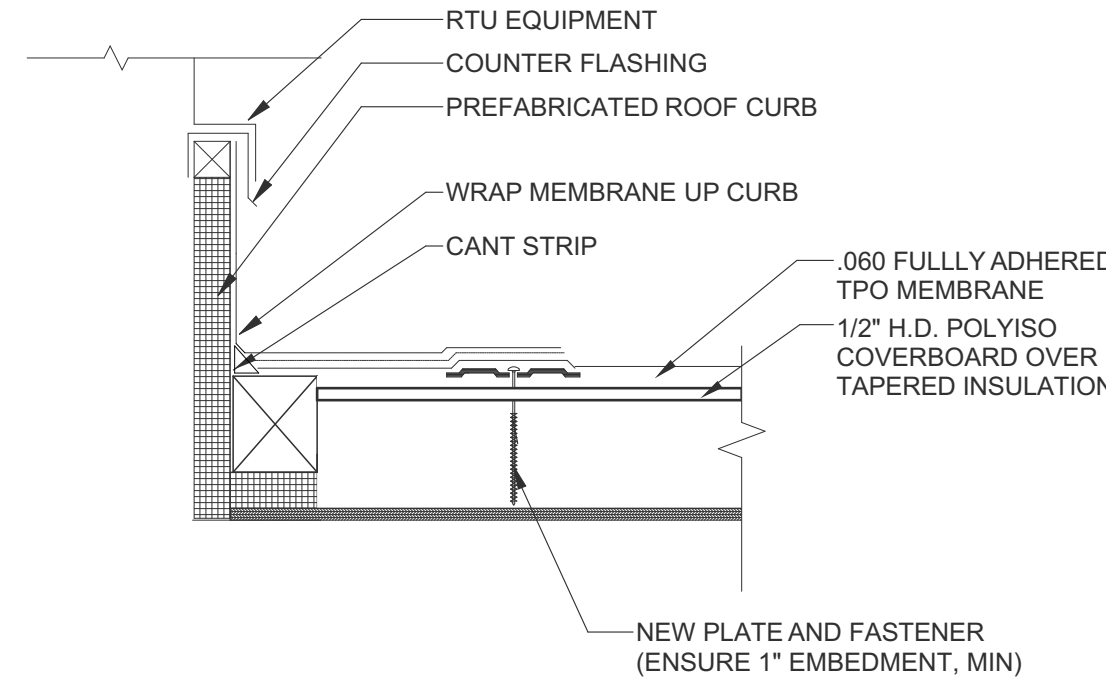
3 DETAIL
SCALE: 3" = 1'-0"



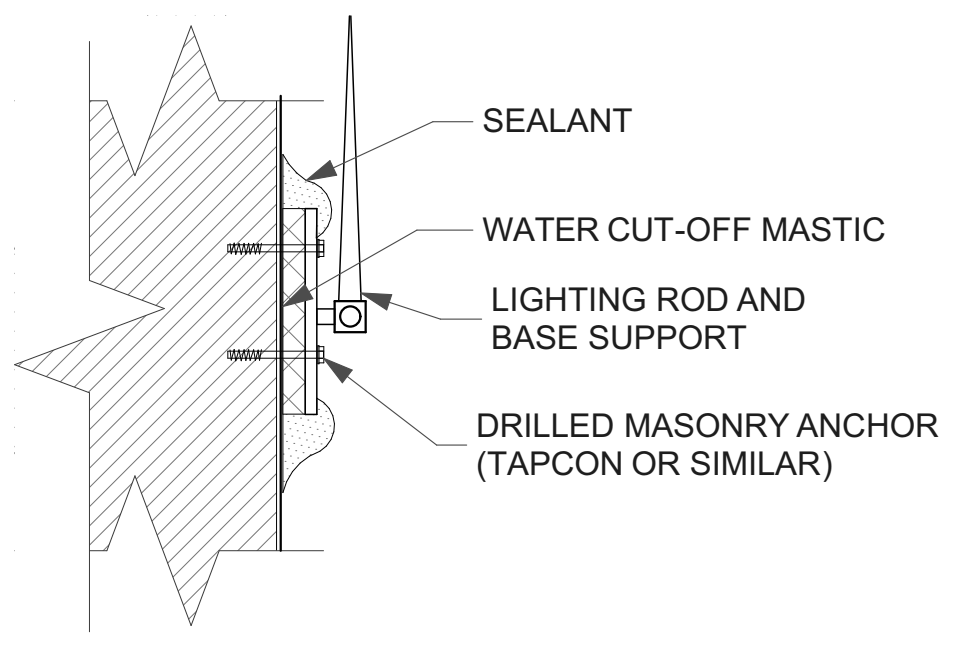
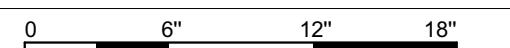
4 PIPE PENETRATION
SCALE: 1 1/2" = 1'-0"



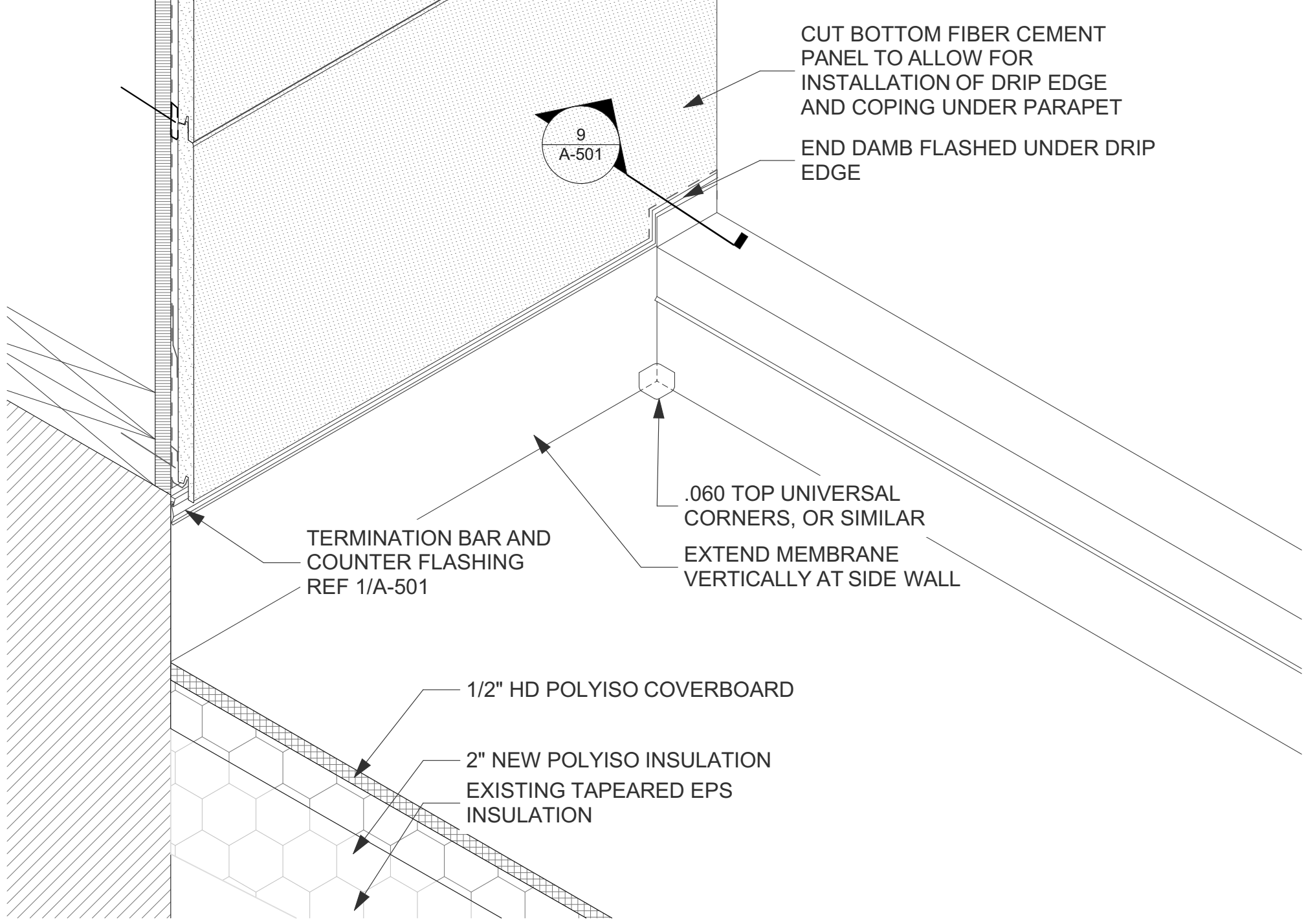
5 ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



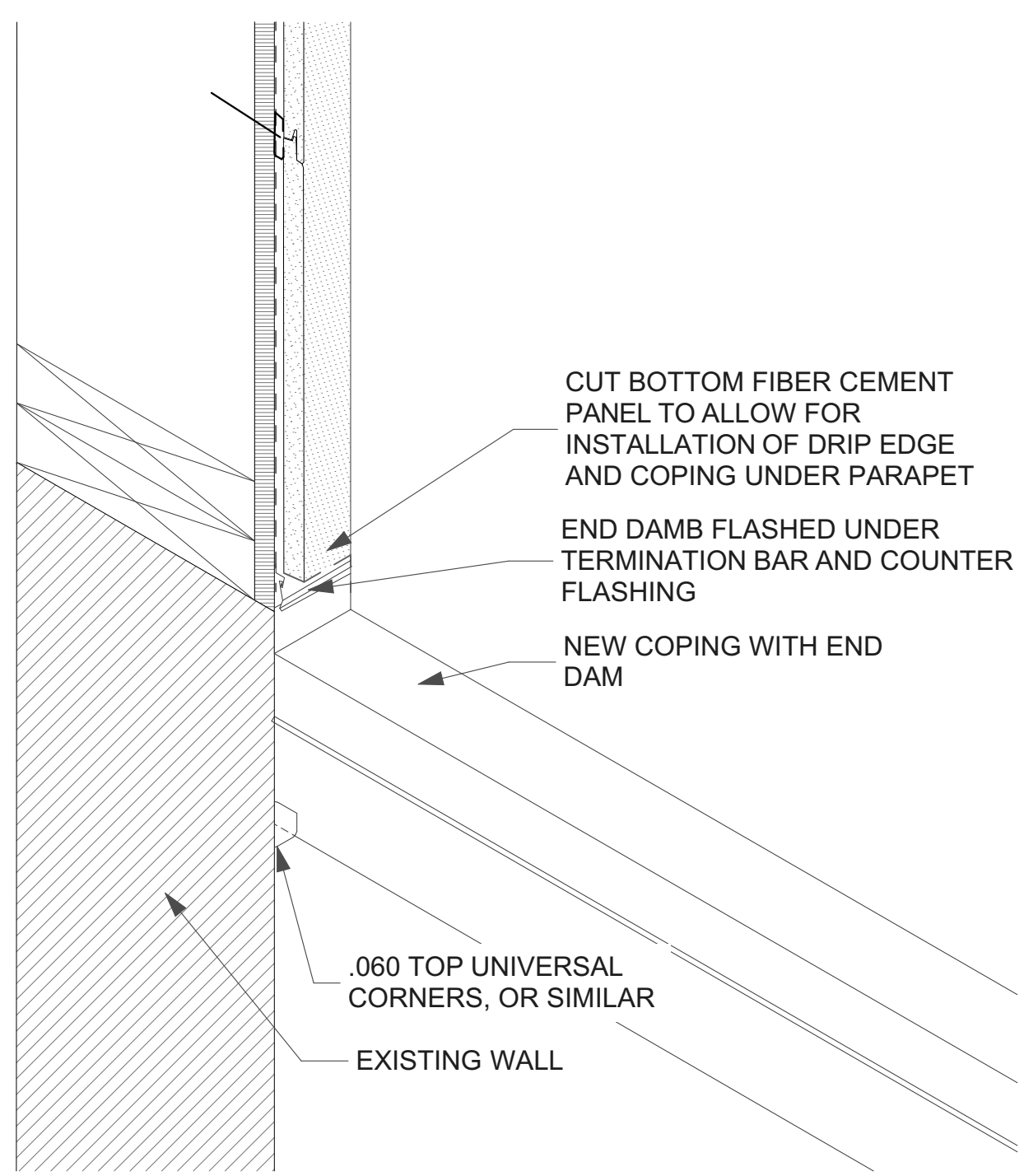
6 CURB FLASHING
SCALE: 1 1/2" = 1'-0"



7 VERTICAL EQUIPMENT ATTACHMENT
SCALE: 3" = 1'-0"



8 COPING AT SIDEWALL
SCALE: 3" = 1'-0"

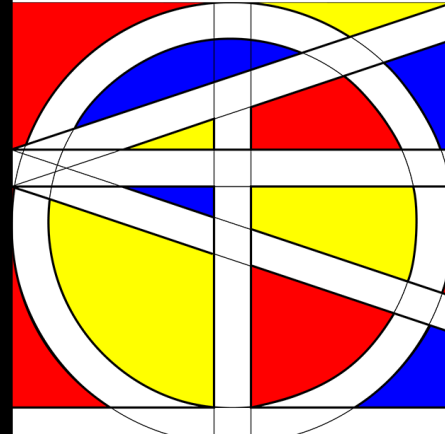


9 SECTION
SCALE: 3" = 1'-0"



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horizon.
original.
architecture.



IOWA CORRECTIONAL
INSTITUTION FOR WOMEN
ROOF REPLACEMENT

Iowa Department of Corrections
Mitchellville, IA 50169

DESCRIPTION	DATE	MARK

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SHEET TITLE
ROOF DETAILS

A-501