

BOLTON HIGH SCHOOL Roof Replacement

PHASE 2 PACKAGE

MEMPHIS Shelby County Schools
7323 Brunswick Rd
Arlington, Tennessee 38002

bdG Project No: 22009
TFM No: 02447, 02447-A
MSCS No: 2023-0607

Construction Documents: 05.30.24

CODE INFORMATION

JURISDICTIONS

STATE OF TENNESSEE
DEPARTMENT OF COMMERCE AND INSURANCE
STATE FIRE MARSHAL'S OFFICE
CODES ENFORCEMENT SECTION
500 JAMES ROBERTSON PARKWAY
3rd FLOOR, VOLUNTEER PLAZA
NASHVILLE, TN 37243-162
BUSINESS PHONE: (615) 741-1190

LOCAL BUILDING DEPARTMENT
MEMPHIS & SHILBY COUNTY OFFICE OF
CONSTRUCTION CODE ENFORCEMENT
CONTACT: RITA ANDERSON
6465 MULLINS STATION ROAD
MEMPHIS, TENNESSEE 38105
BUSINESS PHONE: (901) 222-8900
RITA.ANDERSON@SHELBYCOUNTYTN.GOV

LOCAL FIRE DEPARTMENT
MEMPHIS FIRE SERVICES
CHIEF FIRE MARSHAL: JOE M. PAYNE
65 SOUTH FRONT STREET
MEMPHIS, TENNESSEE 38103
BUSINESS PHONE: (901) 636-1400
MFDINQUIRIES@MEMPHISTN.GOV

APPLICABLE BUILDING CODES

STATE CODES:
2012 INTERNATIONAL BUILDING CODE
(EXCEPT: CHAPTER 11 & 3411)
2017 NATIONAL ELECTRICAL CODE (NFPA 70)
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL ENERGY CODE
2012 INTERNATIONAL FIRE CODE
2012 NFPA-101, LIFE SAFETY CODE

LOCAL CODES:
2021 INTERNATIONAL BUILDING CODE / LOCAL
2021 INTERNATIONAL EXIST. BUILDING CODE / LOCAL
2020 NATIONAL ELECTRICAL CODE / LOCAL
2021 INTERNATIONAL GAS CODE / LOCAL
2021 INTERNATIONAL MECHANICAL CODE / LOCAL
2021 INTERNATIONAL PLUMBING CODE / LOCAL
2021 INTERNATIONAL ENERGY CON. CODE / LOCAL
2011 ICC A117.1 ACCESSIBLE AND USABLE
BUILDINGS AND FACILITIES

UNITED STATES DEPARTMENT OF JUSTICE:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

SCOPE OF WORK

THE PURPOSE OF THIS PROJECT IS TO:
1. REPLACE THE EXISTING ROOFING SYSTEMS ON 7 BUILDINGS.

BUILDING INFORMATION - 3D & 3E

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 2-STORY
21'-4" / 28'-4"
GROUP (E): HIGH SCHOOL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
UNPROTECTED
SQ. FT. 7,000 S.F. 3D
4,335 S.F. 3E

BUILDING INFORMATION - 4A thru 4D

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 2-STORY & 1-STORY
32'-0" / 14'-0"
GROUP (E): HIGH SCHOOL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
UNPROTECTED
SQ. FT. 16,075 S.F. 4A
3,910 S.F. 4B
3,000 S.F. 4C
11,475 S.F. 4D

BUILDING INFORMATION - 5A & 5B

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY & 2-STORY
5'-4" / 26'-0"
GROUP (E): VOCATIONAL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
UNPROTECTED
SQ. FT. 12,590 S.F. 5A
13,495 S.F. 5B

BUILDING INFORMATION - 7

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY
14'-0"
GROUP (A): CAFETERIA

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
UNPROTECTED
SQ. FT. 7,750 S.F.

BUILDING INFORMATION - 8A thru 8F

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY
26'-4" to 9'-0" lower
GROUP (A): AUDITORIUM
GROUP (E): HIGH SCHOOL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
UNPROTECTED
SQ. FT. 2,260 S.F. 8A (upper)
2,440 S.F. 8A (2 wings)
120 S.F. 8A (2 lower)
2,620 S.F. 8B
2,060 S.F. 8C
9,765 S.F. 8D
910 S.F. 8E
675 S.F. 8F

BUILDING INFORMATION - 9A thru 9D

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY (GYM w/ MEZZ)
36'-8" / 14'-8" / 9'-4"
GROUP (A): GYMNASIUM

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
PROTECTED
SQ. FT. 15,675 S.F. 9A
8,315 S.F. 9B
4,380 S.F. 9C
2,340 S.F. 9D

BUILDING INFORMATION - 10

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY
18'-0"
GROUP (B): MAIN OFFICE

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED,
UNPROTECTED
SQ. FT. 1,555 S.F.

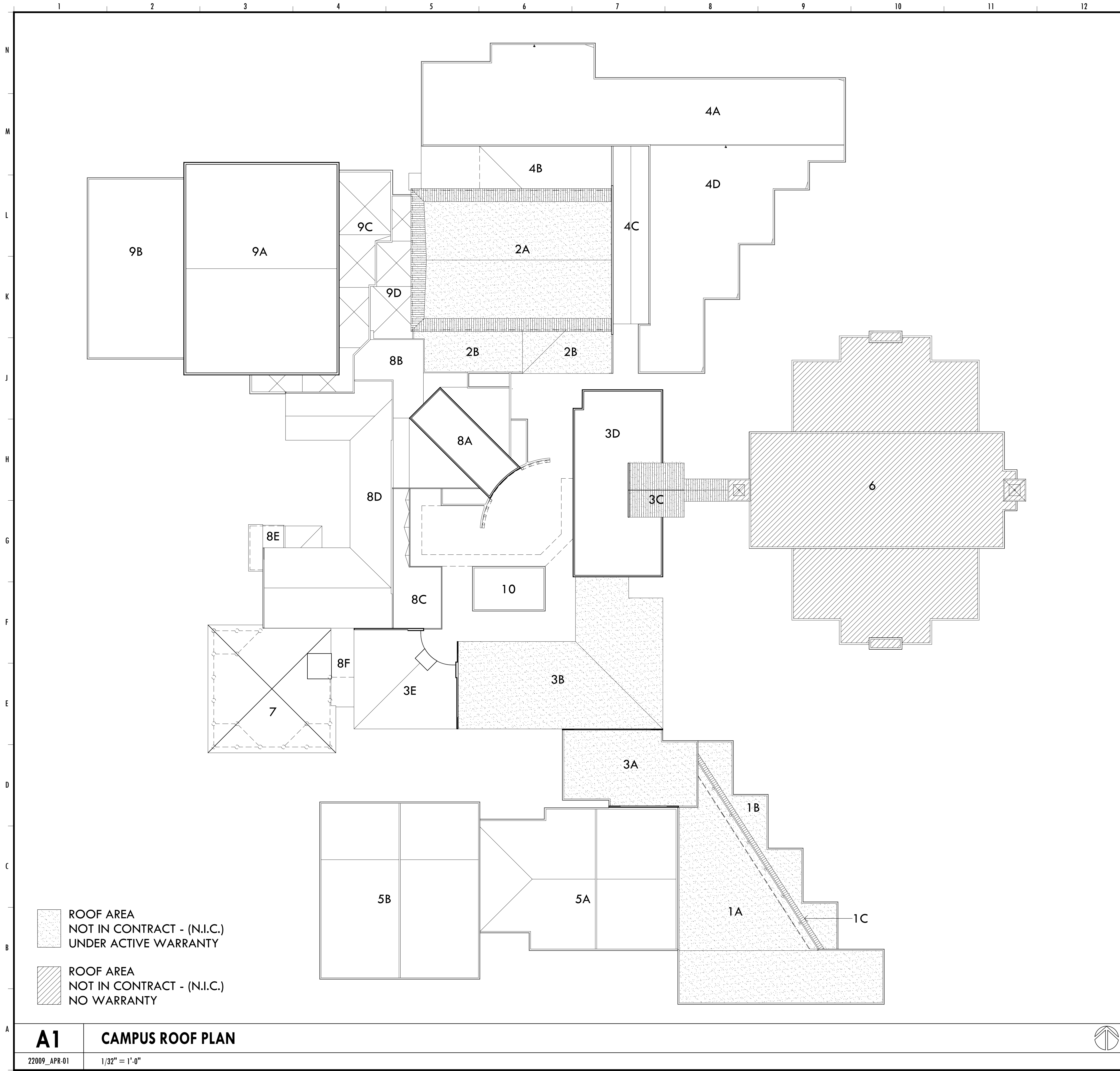
PROJECT TEAM


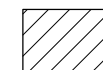
OWNER
MEMPHIS Shelby County Schools
Contact: Marc Calma
1364 Farmville Road
Memphis, Tennessee 38122
phone: 901.416.08183

TENANT
Bolton High School
Contact: Martavious James
7323 Brunswick Rd
Arlington, Tennessee 38002
phone: 901.416-1435

ARCHITECT
braganza design/ GROUP
Contact: Wendy Gross, AIA
1861 Madison Avenue
Memphis, Tennessee 38104
phone: 901.458.7600

ROOF CONSULTANT
Nashville Roof Consultants
Contact: James Oldham
P.O. Box 160527
Nashville, Tennessee 37216
phone: 615.238.5737



 ROOF AREA NOT IN CONTRACT - (N.I.C.) UNDER ACTIVE WARRANTY
 ROOF AREA NOT IN CONTRACT - (N.I.C.) NO WARRANTY

A1 CAMPUS ROOF PLAN
 22009_APR-01 1/32" = 1'-0"

Legend:

	ROOF DRAIN (R.D.)		WALKWAY PADS
	OVERFLOW DRAIN (O.F.)		CONDUIT
	ROOF EQUIPMENT GURB (w/ CRICKET)		PIPING
	ROOF EXHAUST FAN		ROOF EXPANSION JOINT
	PITCH POCKET (P.P.)		TAPERED INSULATION RIDGE / VALLEY
	ROOF PIPE PENETRATION (V.T.R.)		TAPERED INSULATION LEVELS
	HEAT VENT (FLUE)		EXISTING STORM DRAIN LINE - APPROX.
	ELECTRIC BOX AND CONDUIT DROP		NEW STORM DRAIN LINE - ASSUMED
	ACCESS LADDER		EXISTING STORM DRAIN CATCH BASIN
	ROOF HATCH		THRU-WALL OVERFLOW (O.F.)
	LIGHTING ROD SYSTEM (LR)		DOWNSPOUT (COLLECTION BOX) (D.S.)
	ANTENNA		DOWNSPOUT (GUTTER) (D.S.)
	FIRE ALARM BELL		SPLASH BLOCK (S.B.)
	EXTERIOR LIGHTING		DRAIN BOOT AND PIPE (S.D.)
	SECURITY CAMERA		PVC PIPE DRAIN (P.D.)
	SATELLITE		HOSE BIB
			ROOF CORE SAMPLE
			TURBINE VENT

ENERGY CODE

IECC 2021 - CLIMATE ZONE 3A - COMMERCIAL
MEMPHIS TN - SHELBY COUNTY

LOCATION	TYPE	Min. U-factor	Min. R-value
ROOF	INSULATION ABOVE ROOF DECK	.039	25-c1

1. AN ASSEMBLY WITH A U-FACTOR EQUAL OR LESS THAN THAT LISTED ABOVE SHALL BE PERMITTED AS AN ALTERNATIVE TO THE R-VALUE LISTED ABOVE.

2. c1 = CONTINUOUS INSULATION.

AIR BARRIERS
REQUIRED IN ZONE 3

OWNER DESIGN CRITERIA

MEMPHIS / SHELBY COUNTY SCHOOLS
DIVISION 01 00 00 - THERMAL & MOISTURE PROTECTION

ROOFING SYSTEM:

- ROOF DESIGN AND SPECIFICATION SHALL BE APPROVED BY THE SCS DEPARTMENT OF DESIGN & CONSTRUCTION REPRESENTATIVE.
- ALL ROOFS SHALL HAVE A POSITIVE SLOPE MINIMUM 1/4" PER FOOT, UTILIZING THE SLOPE OF STRUCTURAL MEMBERS, (NOT TAPERED INSULATION) TO DRAINS, PREFERABLY AT THE PERIMETER. USE OF INTERIOR ROOF DRAINS IS DISCOURAGED.
- SCS REQUESTS THAT ALL DESIGNERS CONSIDER WALL PENETRATIONS OVER ROOF PENETRATIONS WHEN POSSIBLE TO MINIMIZE IMPACTS AND COMPROMISES TO BUILDING ENVELOPE DURING DESIGN.
- CARE SHALL BE TAKEN TO PROVIDE FOR BUILDING EXPANSION AND CONTRACTION.
- ALL ROOF SYSTEMS SHALL BE DESIGNED TO MEET FACTORY MUTUAL (FM) CURRENT WIND UPLIFT REQUIREMENTS AND MAX WIND SPEED DESIGN.
- MEDIUM AND LOW SLOPE ROOF SYSTEMS SHALL REQUIRE INSTALLER TO BE CERTIFIED BY THE PRODUCT MANUFACTURER OF THE SAME SYSTEM BEING INSTALLED AND PROOF SHALL BE REQUIRED.
- ROOF WARRANTY SHALL INCLUDE A MINIMUM MANUFACTURER'S 20-YEAR, NO DOLLAR LIMIT, FULL SYSTEM WARRANTY, AND A 5-YEAR LABOR WARRANTY.

STEEP SLOPED ROOFS:

- STEEP SLOPED ROOFS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - STANDING SEAM KYNAR FINISHED STRUCTURAL METAL ROOFING SYSTEM OR ARCHITECTURAL SYSTEM OVER DECK, UTILIZING SEAMS THAT ARE AT LEAST 2-1/2" ABOVE THE PLANE OF THE ROOF PANEL AND SECURED BY MEANS OF CONCEALED CLEATS.
 - KYNAR FINISHED ALUMINUM SHOULD BE CONSIDERED IF BUDGET ALLOWS.
 - A MINIMUM SLOPE OF 3 INCHES PER FOOT SHALL BE MAINTAINED.
 - TOTAL ROOF INSULATION RATING FOR STEEP SLOPE ROOFS SHALL BE R-30 MINIMUM.
 - ALL POLY-ISO INSULATION SHALL BE INSTALLED OVER THE ROOF DECKING AND SHALL HAVE STAGGERED AND TAPED JOINTS. INSULATION JOINTS SHALL NOT ALIGN WITH ANY DECKING JOINTS TO PREVENT AIR AND MOISTURE INFILTRATION.

MEDIUM SLOPED ROOFS:

- STEEP SLOPED ROOFS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - STANDING SEAM METAL ROOFING AND/ OR DIMENSIONAL, FIBERGLASS SHINGLE ROOFING WEIGHING 300 POUNDS PER SQUARE OR GREATER ARE ACCEPTABLE.

LOW SLOPED ROOFS:

- STEEP SLOPED ROOFS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - FULLY ADHERED NON-BALLASTED 60 MIL (BLACK) EPDM IS PREFERRED. PVC AND TPO MEMBRANES WILL NOT BE ACCEPTED.
 - MINIMUM SLOPE TO POINT OF DISCHARGE SHALL BE 1/4" PER FOOT.
 - PROVIDE WARRANTY AS REQUIRED BY DIVISION 01 70 00 - SPECIAL WARRANTIES AND MAINTENANCE AGREEMENTS.
 - MINIMUM R-30 INSULATION VALUE FOR ROOF SYSTEMS OR MINIMUM REQUIRED BY ENERGY CODE - WHICHEVER IS GREATER. MECHANICALLY FASTEN WHERE POSSIBLE, AND HOT MOP TO CONCRETE SURFACES. PROVIDE 2 LAYERS MINIMUM WITH JOINTS STAGGERED VERTICALLY. NO GYPSUM BOARD COVER BOARD.
 - ALL ROOF INSULATION SHALL BE PRODUCED CFC FREE

WIND DESIGN

IBC 2021 - CHAPTER 15 ROOF ASSEMBLIES

1504.6 EDGE SYSTEMS FOR LOW-SLOPE ROOFS
METAL EDGE SYSTEMS EXCEPT GUTTERS AND COUNTERFLASHING, INSTALLED ON BUILT-UP, MODIFIED BITUMEN AND SINGLE-PLY ROOFING SYSTEMS HAVING A SLOPE LESS THAN 2:12 SHALL BE DESIGNED AND INSTALLED FOR WIND LOADS IN ACCORDANCE WITH CH 16 AND TESTED FOR RESISTANCE IN ACCORDANCE WITH TEST METHODS RE-1, RE-2 AND RE-3 OF ANSI/SPRI ES-1.

ANSI/SPRI/IFM 4435/ES-1 / WIND DESIGN FOR EDGE SYSTEMS USED WITH LOW SLOPING ROOFING SYSTEMS:
WIND EXPOSURE: CAT. C - OPEN WITH SCATTERED OBSTRUCTIONS
BUILDING IMPORTANCE FACTOR: CAT. III - I15 FACTOR
BUILDING CONFIGURATION: ENCLOSED

PROVIDE MEMBRANE ROOFING ASSEMBLIES THAT HAVE BEEN SUCCESSFULLY TESTED BY A QUALIFIED TESTING AGENCY FOLLOWING ANSI/IFM 4474 TO RESIST THE DESIGN UPLIFT PRESSURES CALCULATED ACCORDING TO ASCE7-10 AND AFTER MULTIPLYING THE RESULTS WITH A SAFETY FACTOR OF 2, BUT NOT LESS THAN 60-LS/5F.



braganza design/GROUP
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Revisions

NO.	DATE	DESCRIPTION
01	12.20.23	Schematic Design
02	03.23.24	Design Development
03	05.30.24	Construction Documents

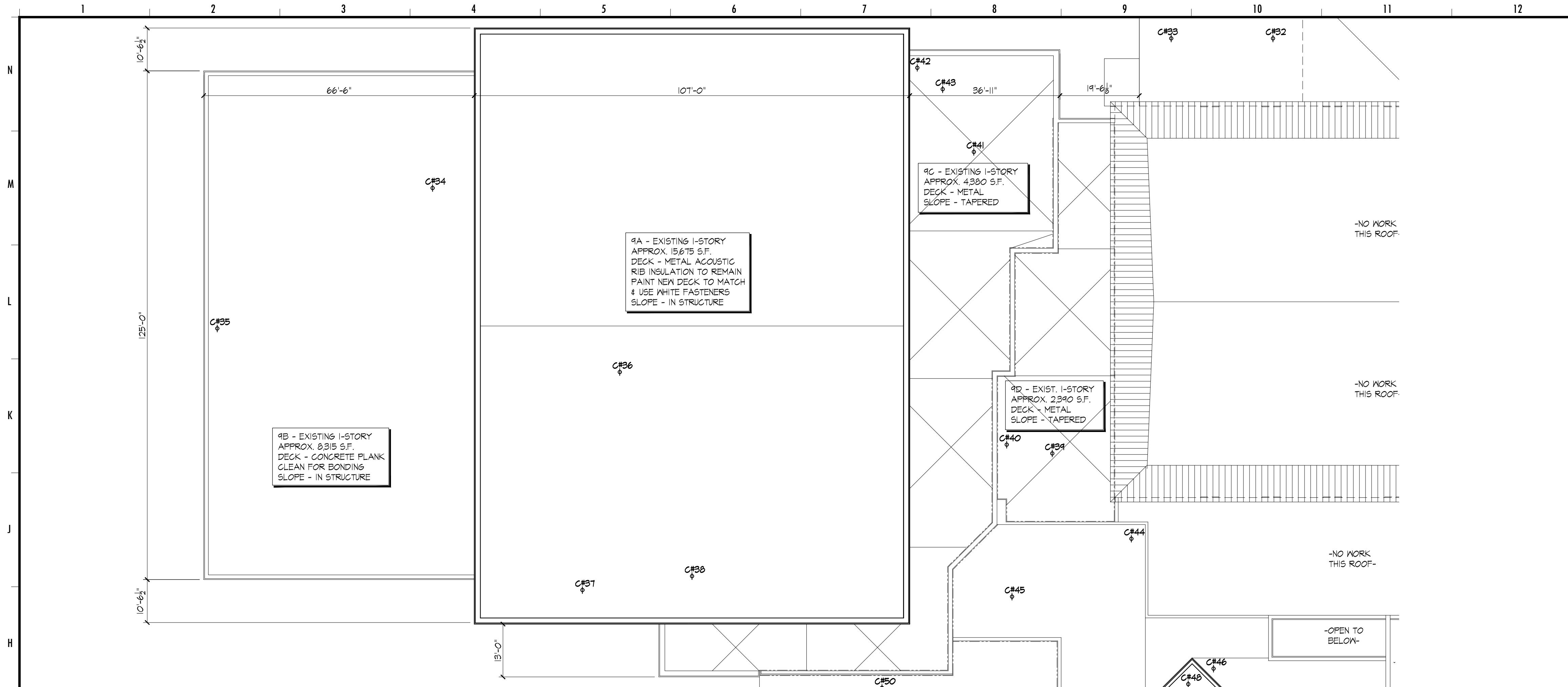
Bolton High School
Roof Replacement Package 2
TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

CAMPUS ROOF PLAN

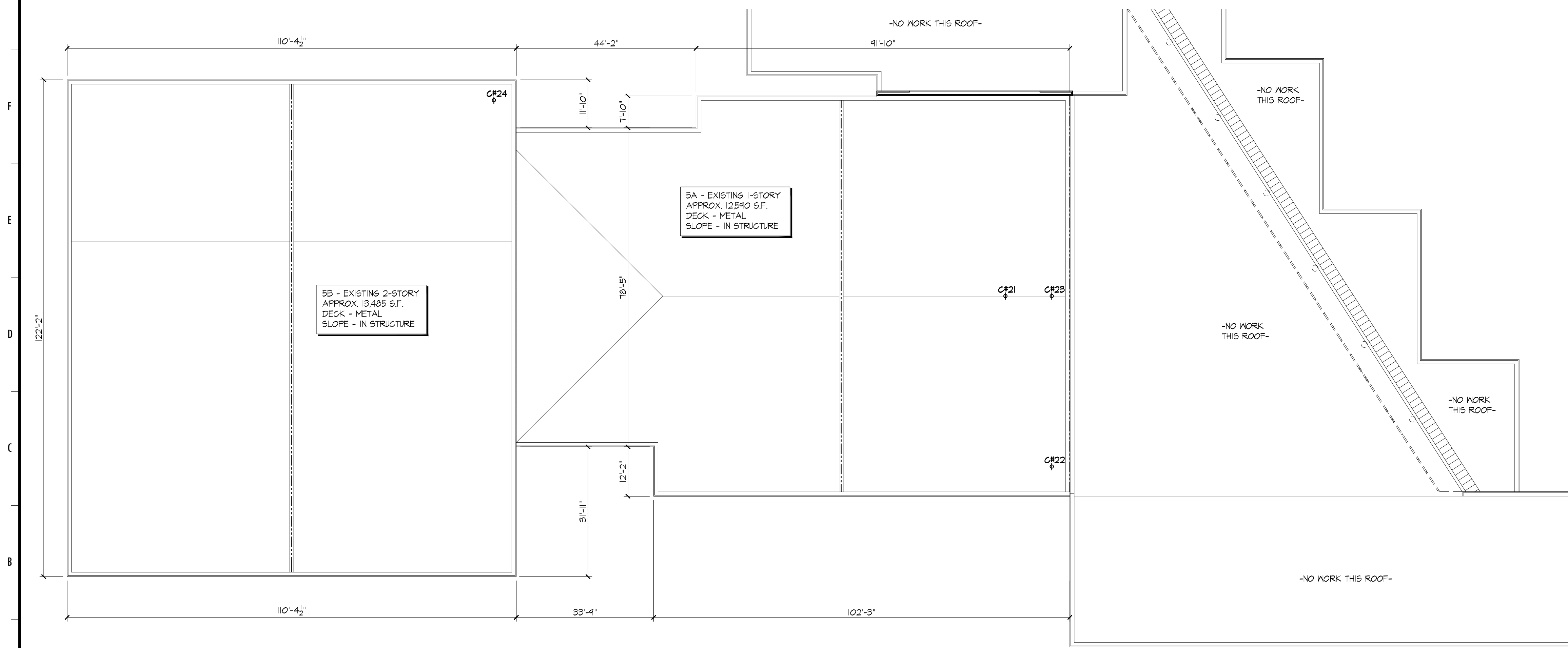
Project No. 22009 Date 05.30.24

A2.0



G1 EXISTING ROOF PLAN - GYM

22009_APR-01 1/16" = 1'-0"



A1 EXISTING ROOF PLAN - SOUTH

22009_APR-01 1/16" = 1'-0"

Legend:

	ROOF DRAIN (R.D.)		WALKWAY PADS
	OVERFLOW DRAIN (O.F.)		CONDUIT
	ROOF EQUIPMENT CURB (w/ CRICKET)		PIPING
	ROOF EXHAUST FAN		ROOF EXPANSION JOINT
	PITCH POCKET (P.P.)		TAPERED INSULATION RIDGE / VALLEY
	ROOF PIPE PENETRATION (V.T.R.)		TAPERED INSULATION LEVELS
	HEAT VENT (H.V.)		EXISTING STORM DRAIN LINE - APPROX.
	ELECTRIC BOX AND CONDUIT DROP		NEW STORM DRAIN LINE - ASSUMED
	ACCESS LADDER		EXISTING STORM DRAIN CATCH BASIN
	ROOF HATCH		THRU-WALL OVERFLOW (O.F.)
	LIGHTING ROD SYSTEM (L.R.)		DOWNSPOUT (COLLECTION BOX) (D.S.)
	ANTENNA		DOWNSPOUT (GUTTER) (D.S.)
	FIRE ALARM BELL		SPLASH BLOCK (S.B.)
	EXTERIOR LIGHTING		DRAIN BOOT AND PIPE (S.D.)
	SECURITY CAMERA		PVC PIPE DRAIN (P.D.)
	SATELLITE		HOSE BIB
			ROOF CORE SAMPLE
			TURBINE VENT

- Existing Conditions:**
- DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
 - EXISTING ROOF SYSTEM VARIES BY BUILDING - SEE CORE SAMPLE REPORT.
 - EXISTING ROOF DRAINAGE VARIES BY BUILDING VIA INTERNAL ROOF DRAINS AND PERIMETER GUTTERS, OVERFLOW SCUPPERS AND DOWNSPOUTS - SEE PLANS.
 - ATTACHMENT 'B' DATED MARCH 15, 2022 PROVIDED BY OWNER STATES THAT ALL ROOFS HAVE BEEN TESTED AND THE FOLLOWING AREAS HAVE BEEN IDENTIFIED WITH ASBESTOS-CONTAINING MATERIALS - NONE PRESENT.
 - EXISTING ROOFS HAVE NEARBY POWER POLES, OVERHEAD LINES AND LOOSE LAID LINES. COORDINATE WITH LOCAL UTILITIES AND OWNER INCLUDING LOW VOLTAGE AND TELECOMMUNICATIONS.
 - ALL ROOFS CAN BE ACCESSED FROM EXISTING ROOF HATCHES AND WALL LADDERS. CONTRACTORS SHALL ACCESS ALL ROOFS VIA EXTERIOR LADDERS AND LIFTS. DO NOT ENTER BUILDINGS FOR ACCESS.
 - EXISTING PERIMETER WALLS HAVE EDGE METAL, COPINGS AND DRAINAGE SYSTEMS.
 - EXISTING PERIMETER WALLS HAVE SEVERAL ITEMS ATTACHED NEAR THE TOP EDGE METAL INCLUDING SITE LIGHTING, SECURITY CAMERAS, CONDUIT, AND PIPING. THESE ITEMS WILL NEED TO BE REMOVED AND REINSTALLED OR ALTERED DURING THE INSTALLATION OF THE NEW ROOFING SYSTEM AND EDGE METAL TRIM.
 - THERE ARE SEVERAL BUILDING EXPANSION JOINTS THAT ARE TO REMAIN. REMOVE EXISTING EXPANSION JOINT COVERS/ FLASHING AND PREP FOR NEW. REFER TO DETAILS.
 - NEW ROOFS WERE INSTALLED UNDER PHASE 1 WORK. THE ROOFS ARE UNDER WARRANTY WITH ELEVATE (FIRESTONE) AND JESSIE BRYANT ROOFING. CONTACT THEM FOR ANY POST WARRANTY WORK ON THESE ROOFS. DO NOT ACCESS, WALK-ON, STAGE OR STORE ANY ITEMS ON THESE ROOFS.
 - CORE SAMPLE REPORT: dated 07-12-23, 10-18-23, 11-09-23

<p>CORE #21 - BLDG 5A - DRAIN</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2" polyiso - metal deck (slope) <p>TOTAL: 3.75'</p>	<p>CORE #22 - BLDG 5A - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2" polyiso - metal deck (slope) <p>TOTAL: 3.75'</p>	<p>CORE #23 - BLDG 5A - MID</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2" polyiso - metal deck (slope) <p>TOTAL: 3.75'</p>	<p>CORE #24 - BLDG 5B - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2" polyiso - metal deck (slope) <p>TOTAL: 3.75'</p>	<p>CORE #25 - BLDG 9B - HIGH</p> <ul style="list-style-type: none"> - EPDM - 3" polyiso - concrete planks (slope) <p>TOTAL: 3'</p>	<p>CORE #26 - BLDG 9B - LOW</p> <ul style="list-style-type: none"> - EPDM - 3" polyiso - concrete planks (slope) <p>TOTAL: 3.0'</p>	<p>CORE #27 - BLDG 9A - RIDGE</p> <ul style="list-style-type: none"> - EPDM w/ ballast - 3" polyiso - 5 gypsum - metal deck (slope) - acoustic <p>TOTAL: 3.5'</p>	<p>CORE #28 - BLDG 9A - LOW</p> <ul style="list-style-type: none"> - EPDM w/ ballast - 1" perlite - 1" polyiso - 5 gypsum - metal deck (slope) - seams patched <p>TOTAL: 3.0'</p>	<p>CORE #29 - BLDG 9A - LOW</p> <ul style="list-style-type: none"> - EPDM w/ ballast - 3" polyiso - 5 gypsum - metal deck (slope) <p>TOTAL: 3.5'</p>	<p>CORE #30 - BLDG 9C - HIGH</p> <ul style="list-style-type: none"> - EPDM w/ ballast - (2) 1.5" perlite - 3" polyiso - 5 gypsum - metal deck (flat) <p>TOTAL: 6.5'</p>	<p>CORE #31 - BLDG 9C - MID</p> <ul style="list-style-type: none"> - EPDM w/ ballast - 1.5" perlite - 2.5" polyiso - 5 gypsum - metal deck (flat) <p>TOTAL: 4.5'</p>	<p>CORE #32 - BLDG 9C - DRAIN</p> <ul style="list-style-type: none"> - EPDM w/ ballast - 5" EPS - 3" polyiso - 5 gypsum - metal deck (flat) <p>TOTAL: 4.0'</p>
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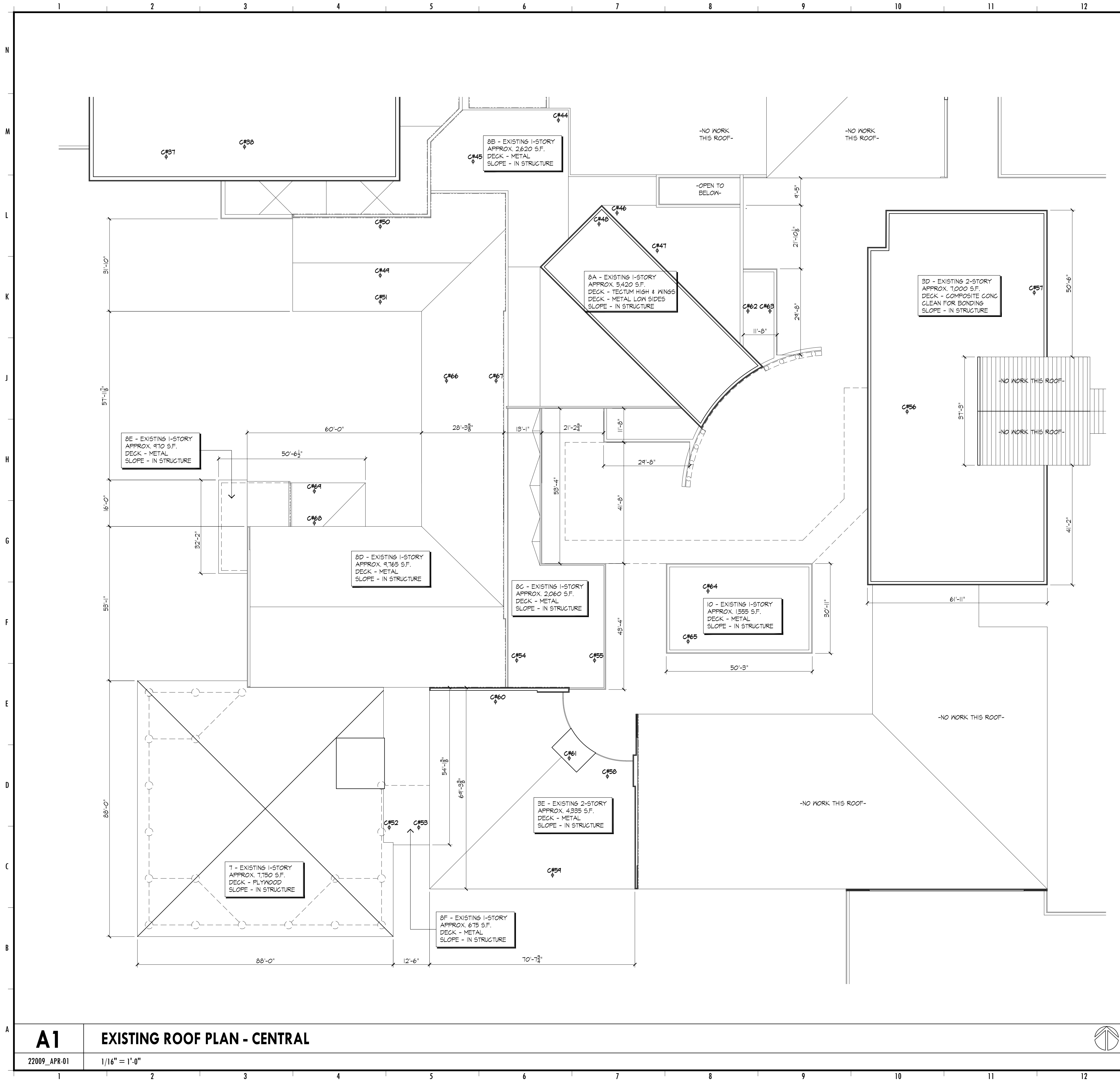
Bolton High School
Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
 Arlington, Tennessee 38002

EXISTING ROOF PLAN

Project No. 22009 Date 05.30.24

A2.1



Legend:

	ROOF DRAIN (R.D.)		WALKWAY PADS
	OVERFLOW DRAIN (O.F.)		CONDUIT
	ROOF EQUIPMENT CURB (w/ CRICKET)		PIPING
	ROOF EXHAUST FAN		ROOF EXPANSION JOINT
	PITCH POCKET (P.P.)		TAPERED INSULATION RIDGE / VALLEY
	ROOF PIPE PENETRATION (V.T.R.)		TAPERED INSULATION LEVELS
	HEAT VENT (FLUE)		EXISTING STORM DRAIN LINE - APPROX.
	ELECTRIC BOX AND CONDUIT DROP		NEW STORM DRAIN LINE - ASSUMED
	ACCESS LADDER		EXISTING STORM DRAIN CATCH BASIN
	ROOF HATCH		THRU-WALL OVERFLOW (O.F.)
	LIGHTING ROD SYSTEM (LR)		DOWNSPOUT (COLLECTION BOX) (D.S.)
	ANTENNA		DOWNSPOUT (GUTTER) (D.S.)
	FIRE ALARM BELL		SPLASH BLOCK (S.B.)
	EXTERIOR LIGHTING		DRAIN BOOT AND PIPE (S.D.)
	SECURITY CAMERA		PVC PIPE DRAIN (P.D.)
	SATELLITE		HOSE BIB
			ROOF CORE SAMPLE
			TURBINE VENT

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 - CORE SAMPLE REPORT: dated 07-12-23, 10-18-23, 11-09-23

<p>CORE #44 - BLDG 8B - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 5' perlite - 2" polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>	<p>CORE #51 - BLDG 8D - LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 3' polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>	<p>CORE #58 - BLDG 8E - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2.5' polyiso - built-up roof - .75' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>
<p>CORE #45 - BLDG 8B - DRAIN</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 5' perlite - 2" polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>	<p>CORE #52 - BLDG 8F - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 5' perlite - 3' polyiso - metal deck (slope) - 4.0' <p>TOTAL: 4.0'</p>	<p>CORE #59 - BLDG 8E - LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2.5' polyiso - built-up roof - .75' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>
<p>CORE #46 - BLDG 8A wing - LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 5' perlite - base sheet - 5' gypsum - tecum deck (slope) <p>TOTAL: 2.0'</p>	<p>CORE #53 - BLDG 8F - LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 5' perlite - 3' polyiso - metal deck (slope) - 4.0' <p>TOTAL: 4.0'</p>	<p>CORE #60 - BLDG 8E - MID</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2.5' polyiso - built-up roof - .75' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>
<p>CORE #47 - BLDG 8A wing - MID</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 5' perlite - base sheet - 5' gypsum - tecum deck (slope) <p>TOTAL: 2.0'</p>	<p>CORE #54 - BLDG 8C - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 3' polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>	<p>CORE #61 - BLDG 8E - ELEV</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 1" polyiso - built-up roof - 2.5' polyiso - .75' gypsum - metal deck (slope) <p>TOTAL: 6.5'</p>
<p>CORE #48 - BLDG 8A - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - base sheet - 5' gypsum - tecum deck (slope) <p>TOTAL: 1.5'</p>	<p>CORE #55 - BLDG 8C - LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 3' polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 5.0'</p>	<p>CORE #62/63 - BLDG 8A side - HI/LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 2" polyiso - metal deck (slope) <p>TOTAL: 6"</p>
<p>CORE #49 - BLDG 8D - old RIDGE</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 3' polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 5.5'</p>	<p>CORE #56 - BLDG 8D - LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - .75' perlite - 3' polyiso - built-up roof - vapor barrier - conc composite deck (slope) <p>TOTAL: 3.0'</p>	<p>CORE #64/65 - BLDG 10 - HI/LOW</p> <ul style="list-style-type: none"> - EPDM w/ ballast - 3' polyiso - metal deck (slope) <p>TOTAL: 3"</p>
<p>CORE #50 - BLDG 8D - Intill HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 1.5' polyiso (Intill) - old Mod Bit roof layer - 3' polyiso - base sheet - 5' gypsum - metal deck (slope) <p>TOTAL: 7.0'</p>	<p>CORE #57 - BLDG 8D - HIGH</p> <ul style="list-style-type: none"> - Modified Bit Roofing - .75' perlite - 1.5' polyiso - built-up roof - vapor barrier - conc composite deck (slope) <p>TOTAL: 3.0'</p>	<p>CORE #66/67 - BLDG 8D - LOW/HI</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 3' polyiso - 5' gypsum - metal deck (slope) <p>TOTAL: 4.5'</p>
		<p>CORE #68/69 - BLDG 8D - HI/LOW</p> <ul style="list-style-type: none"> - Modified Bit Roofing - 1" perlite - 3' polyiso - 5' gypsum - metal deck (slope) <p>TOTAL: 4.5'</p>

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Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

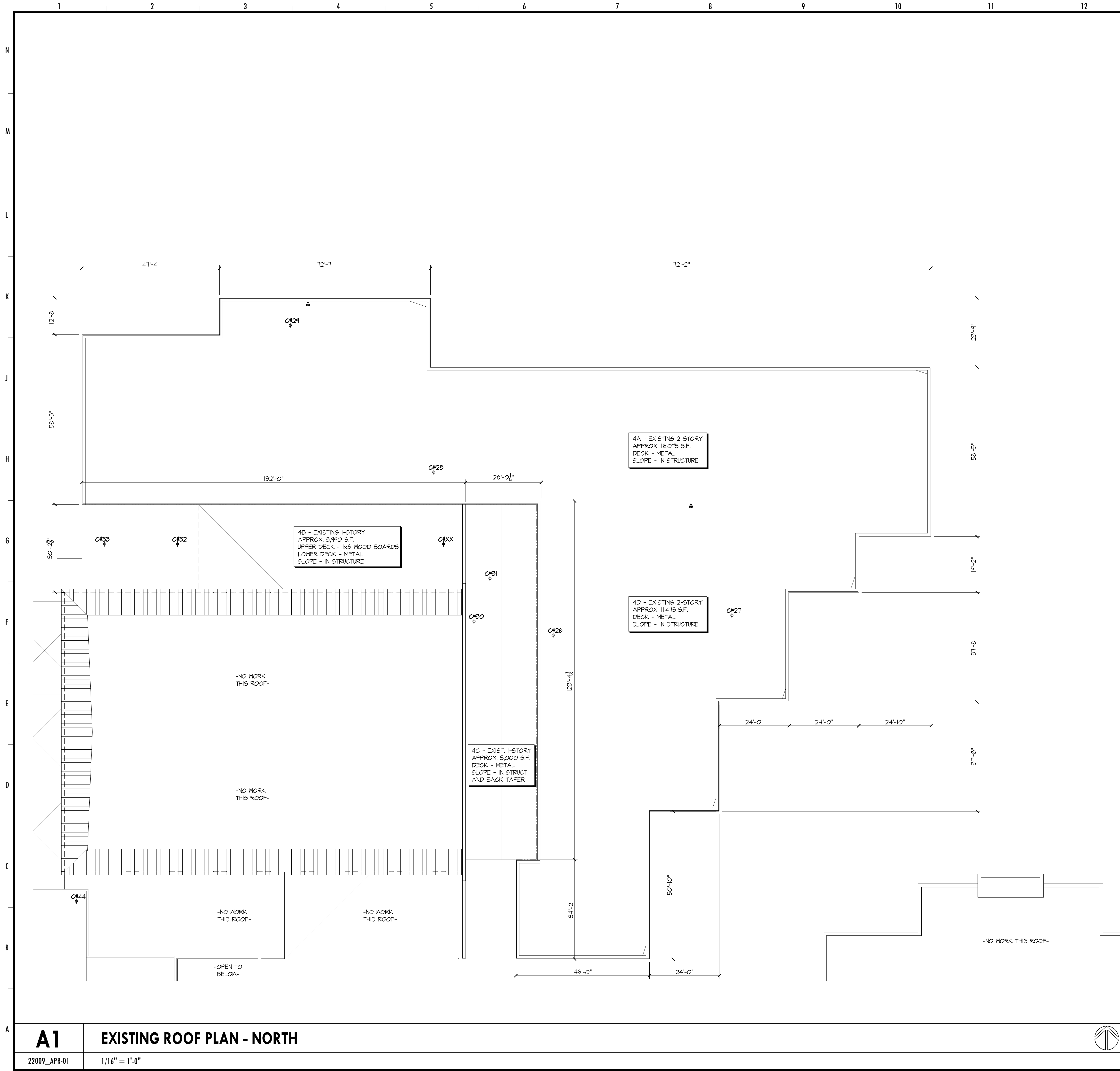
Bolton High School
Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607
 7323 Brunswick Rd
 Arlington, Tennessee 38002

EXISTING ROOF PLAN

Project No. 22009 Date 05.30.24

A2.2

A1 EXISTING ROOF PLAN - CENTRAL
 22009_APR-01 1/16" = 1'-0"



Legend:

	ROOF DRAIN (R.D.)		WALKWAY PADS
	OVERFLOW DRAIN (O.F.)		CONDUIT
	ROOF EQUIPMENT CURB (w/ CRICKET)		PIPING
	ROOF EXHAUST FAN		ROOF EXPANSION JOINT
	PITCH POCKET (P.P.)		TAPERED INSULATION RIDGE / VALLEY
	ROOF PIPE PENETRATION (V.T.R.)		TAPERED INSULATION LEVELS
	HEAT VENT (FLUE)		EXISTING STORM DRAIN LINE - APPROX.
	ELECTRIC BOX AND CONDUIT DROP		NEW STORM DRAIN LINE - ASSUMED
	ACCESS LADDER		EXISTING STORM DRAIN CATCH BASIN
	ROOF HATCH		THRU-WALL OVERFLOW (O.F.)
	LIGHTING ROD SYSTEM (LR)		DOWNSPOUT (COLLECTION BOX) (D.S.)
	ANTENNA		DOWNSPOUT (GUTTER) (D.S.)
	FIRE ALARM BELL		SPLASH BLOCK (S.B.)
	EXTERIOR LIGHTING		DRAIN BOOT AND PIPE (S.D.)
	SECURITY CAMERA		PVC PIPE DRAIN (P.D.)
	SATELLITE		HOSE BIB
			ROOF CORE SAMPLE
			TURBINE VENT

- Existing Conditions:**
- DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
 - EXISTING ROOF SYSTEM VARIES BY BUILDING - SEE CORE SAMPLE REPORT.
 - EXISTING ROOF DRAINAGE VARIES BY BUILDING VIA INTERNAL ROOF DRAINS AND PERIMETER GUTTERS, OVERFLOW SCUPPERS AND DOWNSPOUTS - SEE PLANS.
 - ATTACHMENT 'B' DATED MARCH 15, 2022 PROVIDED BY OWNER STATES THAT ALL ROOFS HAVE BEEN TESTED AND THE FOLLOWING AREAS HAVE BEEN IDENTIFIED WITH ASBESTOS-CONTAINING MATERIALS - "NONE PRESENT".
 - EXISTING ROOFS HAVE NEARBY POWER POLES, OVERHEAD LINES AND LOOSE LAID LINES. COORDINATE WITH LOCAL UTILITIES AND OWNER INCLUDING LOW VOLTAGE AND TELECOMMUNICATIONS.
 - ALL ROOFS CAN BE ACCESSED FROM EXISTING ROOF HATCHES AND WALL LADDERS. CONTRACTORS SHALL ACCESS ALL ROOFS VIA EXTERIOR LADDERS AND LIFTS. DO NOT ENTER BUILDINGS FOR ACCESS.
 - EXISTING PERIMETER WALLS HAVE EDGE METAL, COPINGS AND DRAINAGE SYSTEMS.
 - EXISTING PERIMETER WALLS HAVE SEVERAL ITEMS ATTACHED NEAR THE TOP EDGE METAL INCLUDING SITE LIGHTING, SECURITY CAMERAS, CONDUIT, AND PIPING. THESE ITEMS WILL NEED TO BE REMOVED AND REINSTALLED OR ALTERED DURING THE INSTALLATION OF THE NEW ROOFING SYSTEM AND EDGE METAL TRIM.
 - THERE ARE SEVERAL BUILDING EXPANSION JOINTS THAT ARE TO REMAIN. REMOVE EXISTING EXPANSION JOINT COVERS/ FLASHINGS AND PREP FOR NEW. REFER TO DETAILS.
 - NEW ROOFS WERE INSTALLED UNDER PHASE 1 WORK. THE ROOFS ARE UNDER WARRANTY WITH ELEVATE (FIRESTONE) AND JESSE BRYANT ROOFING. CONTACT THEM FOR ANY POST WARRANTY WORK ON THESE ROOFS. DO NOT ACCESS, WALK-ON, STAGE OR STORE ANY ITEMS ON THESE ROOFS.
 - CORE SAMPLE REPORT: dated 07-12-23, 10-18-23, 11-03-23

CORE #26 - BLDG 4D - HIGH	- EPDM w/ ballast	- 3" polyiso	- metal deck (slope)	TOTAL: 3.0'			
CORE #21 - BLDG 4D - LOW	- EPDM w/ ballast	- 3" polyiso	- metal deck (slope)	TOTAL: 3.0'			
CORE #28 - BLDG 4A - HIGH	- EPDM w/ ballast	- 3" polyiso	- metal deck (slope)	TOTAL: 3.0'			
CORE #24 - BLDG 4A - LOW	- EPDM w/ ballast	- 3" polyiso	- metal deck (slope)	TOTAL: 3.0'			
CORE #30 - BLDG 4C - HIGH	- EPDM	- (2) 1.5" polyiso	- metal deck (slope)	TOTAL: 3.0'			
CORE #31 - BLDG 4C - DRAIN	- EPDM	- (2) 1.5" polyiso	- metal deck (slope)	TOTAL: 3.0'			
CORE #XX - BLDG 4B - HIGH	- NO READING	- wood deck	- XX'	TOTAL: XX'			
CORE #32 - BLDG 4B - MID	- EPDM	- 1.5" polyiso	- 2" polyiso	- 2.5" polyiso	- metal deck (flat)	6'-7"	TOTAL: 6'-7"
CORE #33 - BLDG 4B - LOW	- EPDM	- 1.5" polyiso	- 2.5" polyiso	- metal deck (flat)	4"	TOTAL: 4"	

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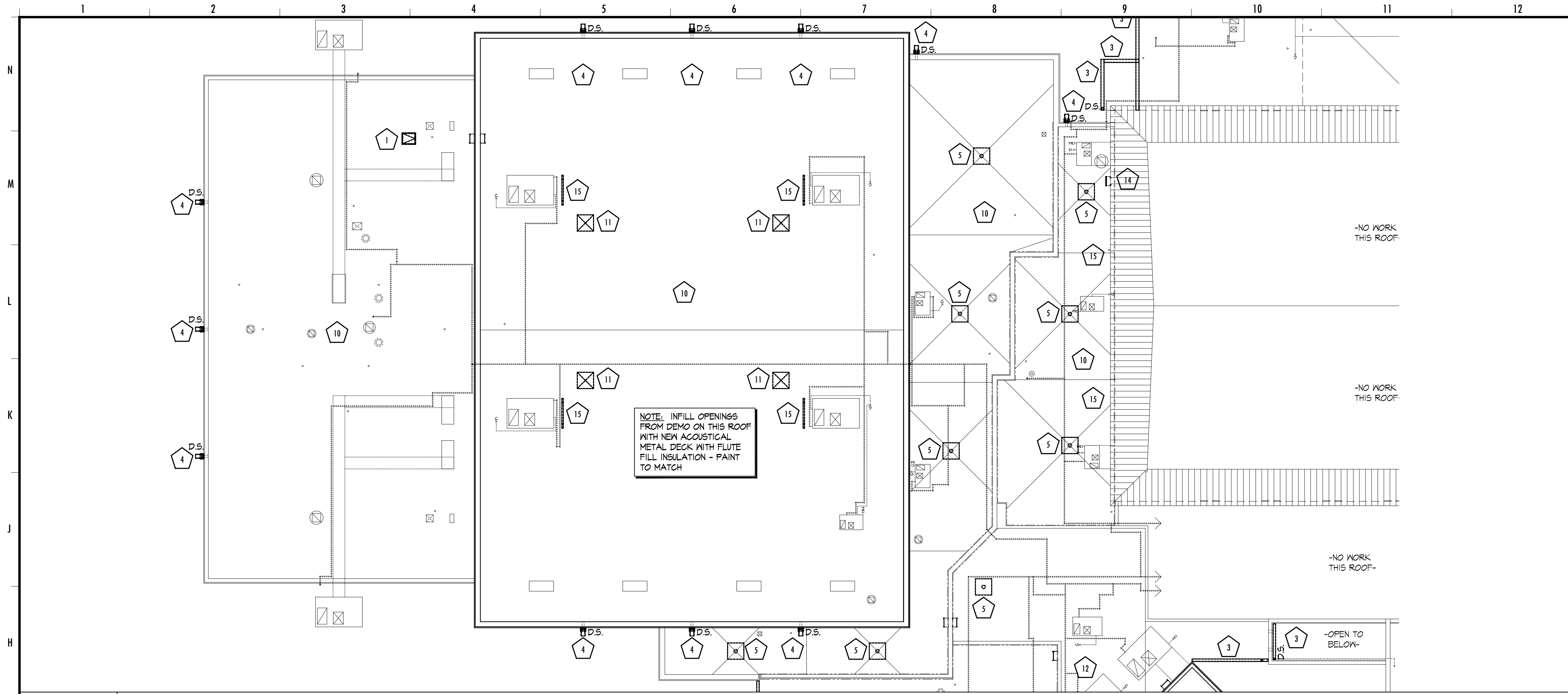


Revisions:

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

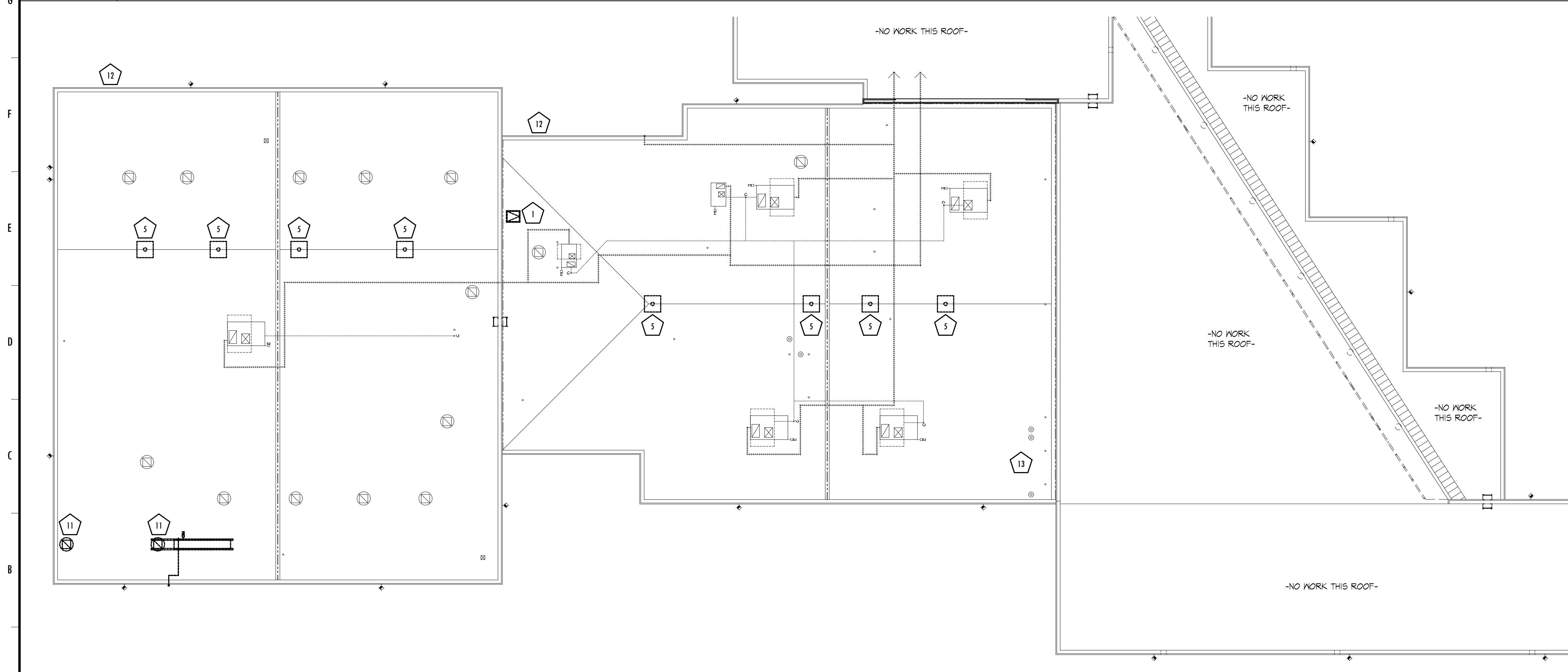
Project Name:
Bolton High School
Roof Replacement Package 2
TFM: 02447, 02447-A
MSCS: 2023-0607
 7323 Brunswick Rd
 Arlington, Tennessee 38002

Drawing Name:
EXISTING ROOF PLAN
 Project No. 22009 Date 05.30.24



G1 DEMOLITION ROOF PLAN - GYM

22009_APR-01 1/16" = 1'-0"



A1 DEMOLITION ROOF PLAN - SOUTH

22009_APR-01 1/16" = 1'-0"

Legend:

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | ROOF DRAIN (R.D.) | | WALKWAY PADS |
| | OVERFLOW DRAIN (O.F.) | | CONDUIT |
| | ROOF EQUIPMENT GURB (w/ CRICKET) | | PIPING |
| | ROOF EXHAUST FAN | | ROOF EXPANSION JOINT |
| | PITCH POCKET (P.P.) | | TAPERED INSULATION RIDGE / VALLEY |
| | ROOF PIPE PENETRATION (V.T.R.) | | TAPERED INSULATION LEVELS |
| | HEAT VENT (H.V.) | | EXISTING STORM DRAIN LINE - APPROX. |
| | ELECTRIC BOX AND CONDUIT DROP | | NEW STORM DRAIN LINE - ASSUMED |
| | ACCESS LADDER | | EXISTING STORM DRAIN CATCH BASIN |
| | ROOF HATCH | | THRU-WALL OVERFLOW (O.F.) |
| | LIGHTING ROD SYSTEM (L.R.) | | DOWNSPOUT (COLLECTION BOX) (D.S.) |
| | ANTENNA | | DOWNSPOUT (GUTTER) (D.S.) |
| | FIRE ALARM BELL | | SPLASH BLOCK (S.B.) |
| | EXTERIOR LIGHTING | | DRAIN BOOT AND PIPE (S.D.) |
| | SECURITY CAMERA | | PVC PIPE DRAIN (P.D.) |
| | SATELLITE | | HOSE BIB |
| | | | ROOF CORE SAMPLE |
| | | | TURBINE VENT |

Demolition & Surface Prep:

GENERAL DEMOLITION NOTES

- REMOVE ALL DEBRIS, SCRAP METAL, TRASH, AND SPONTANEOUS VEGETATION. IF ANY LOOSE OR UNCONNECTED EQUIPMENT IS FOUND, VERIFY WITH MSCS FOR DIRECTION ON RECONNECTION OR DISPOSAL.
- REATTACH EXISTING PERIMETER 2x EDGE WOOD BLOCKING PER ANSI/SPRI E5-1. IF ROTTEN OR DETERIORATED 2x WOOD BLOCKING IS FOUND, REMOVE AND REPLACE WITH NEW FIRE-RETARDANT-TREATED 2x WOOD BLOCKING (2021 IBC - 602.3 & 603). USE APPROVED FASTENERS PER 2021 IBC - 2304.10.6.3. NO PLYWOOD GAPS ALLOWED. IF FOUND, REMOVE AND REPLACE WITH 2x AS LISTED ABOVE.
- REMOVE ALL TERMINATION BARS, FLASHING, COUNTER FLASHING, GRAVEL GUARDS AND ANY OTHER MISC. METALS. PREP ROOF AND WALLS TO RECEIVE NEW MATERIALS PER SPECS.
- TEAR-OFF ALL EXISTING ROOFING LAYERS COMPLETELY AND IN ITS ENTIRETY DOWN TO EXISTING DECK. INSPECT ROOF DECK AND ASSOCIATED SUBSTRATES. REMOVE AND REPLACE ALL DAMAGED DECKING PER UNIT COST PRICING. PREP FOR NEW INSULATION AND ROOFING SYSTEM PER SPECS.
- ELIMINATE ALL EXISTING PITCH POCKETS AND REWORK ITEMS INTO APPROVED PIPE PENETRATIONS OR LINE SET ROOF BOXES - REF. DETAILS.
- EXISTING INTERIOR ROOF DRAINS TO REMAIN WHERE LOCATED. CONTRACTOR SHALL ENSURE EXISTING DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. AFTER LINES ARE CLEARED, PREP FOR NEW RETRO DRAINS. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
- WHERE EXISTING EQUIPMENT IS TO BE REMOVED, INSTALL NEW DECKING TO MATCH ADJACENT OVER OPENINGS.
- REMOVE ALL EXISTING EDGE METAL, COPING, GUTTERS, COLLECTOR HEADS, DOWNSPOUTS AND PREP FOR NEW. CONTRACTOR SHALL ENSURE EXISTING BOOTS AND STORM DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
- RAISE ALL EXISTING ROOF TOP EQUIPMENT, ELECTRIC BOXES AND GURBS TO ALLOW FOR 8" MIN. FLASHING.
- RAISE ALL GAS LINES AND ELECTRICAL CONDUIT AS NEED TO ALLOW FOR NEW INSULATION HEIGHTS.
- EXTEND ALL EXISTING "VENTS PIPES" TO 12" MIN. ABOVE ROOF AND 5 FT. MIN. ABOVE EXHAUST FANS TO MEET LOCAL CODE ORDINANCE #031.
- CONTRACTOR SHALL REPAIR / REPLACE ANY AND ALL SUBSTRATES NOTED TO REMAIN IF DAMAGED DURING DEMOLITION. PROPER DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO DEMOLITION WOULD BE ADVISED.
- REMOVE AND REPLACE ALL EXISTING CONCRETE SPLASH BLOCKS. BUILD-UP GROUNDS BENEATH WHERE APPLICABLE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
- CLEAN AND WASH DOWN EXTERIOR WALLS AFTER EXISTING DOWNSPOUTS REMOVED.
- REMOVE ALL MASONRY WALL EXPANSION JOINT MATERIAL ABOVE ROOF LINES. REPLACE WITH CLOSED CELL BACKER ROD AND DOWN 195 SEALANT.
- REMOVE OR GAP-OFF ALL ABANDONED WIRING, CONDUIT, JUNCTION BOXES, ETC. BELOW ROOF - REVIEW WITH MSCS.
- CONTRACTOR TO WALK ROOFS WITH MSCS MP#E TEAM LEADS AND CAMPUS FACILITIES PERSONNEL PRIOR TO START OF WORK TO VERIFY ALL ITEMS TO BE REMOVED OR GAPPED.
- REFER TO DRAWINGS FOR OTHER DEMO NOTES.

- | | | | |
|--|--------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|
| | DEMO EXISTING 30x36 ROOF HATCH AND PREP FOR NEW ROOF HATCH. NOTE "1A" WILL BE A 36x48 HATCH | | DEMO ABANDONED MECHANICAL EQUIPMENT, GAP LINES AND INFILL ALL OPENINGS - VERIFY WITH MSCS PRIOR TO REMOVAL. |
| | DEMO EXISTING PARAPET WALL ABOVE ROOF TO COORDINATE WITH NEW INSULATION HEIGHTS. EXTEND TO BUILDING CONTROL JOINT. | | DEMO / GAP EXIST. ANTENNAS, SATELLITES, ELECTRICAL, DATA AND SECURITY CABLING, ETC. - VERIFY WITH MSCS PRIOR TO REMOVAL. |
| | DEMO EXISTING GUTTER AND DOWNSPOUT AND PREP FOR NEW GUTTER AND DOWNSPOUT SYSTEM. | | COORDINATE THE REMOVAL / INSTALLATION OF OLD AND NEW EXHAUST VENTS WITH THE CULINARY ARTS PROGRAM AND MSCS. |
| | DEMO EXISTING COLLECTOR HEAD AND DOWNSPOUT PREP FOR NEW COLLECTOR HEAD AND DOWNSPOUT SYSTEM. | | DEMO EXISTING WALL LADDER AT OLD GYM ROOF. REPLACE WITH NEW LADDER. PATCH ALL OPEN HOLES. |
| | DEMO EXISTING INTERIOR ROOF DRAIN OVER FLOW DRAIN WHERE APPLICABLE AND PREP FOR NEW RETRO-DRAIN. | | DEMO OLD WALL EQUIPMENT BRACKETS AND ROOFTOP EQUIPMENT SUPPORTS. PATCH ALL HOLES IN MASONRY WALLS AND ROOF. |
| | DEMO OR INFILL EXISTING INTERNAL ROOF GUTTERS WITH INSULATION. REFER TO DETAILS. | | DEMO ALL PLYWOOD DECKING AT CAFETERIA ROOF AND PREP FOR NEW. |
| | REMOVE EXISTING ROOF TURBINE VENTS. | | LIGHTING ROD SYSTEM SHALL BE REMOVED AND STORED FOR REINSTALL AND RE-CERTIFICATION BY LICENSED CONTRACTOR. |
| | REMOVE EXISTING ABANDONED PITCH POCKETS WHERE NO EQUIPMENT EXISTS. | | DEMO EXISTING EIFS WALL SYSTEM AND PREP FOR NEW METAL WALL PANELS - REF. DETAILS. |
| | REMOVE ALL ABANDONED AND USED STEEL PIPE SUPPORTS - EXCEPT ONE AT GAS MAINS. RESUPPORT WITH NEW PIPE SUPPORTS. | | DEMO EXIST. METAL WALL PANELS AND PREP FOR NEW WALL PANELS - REF. DETAILS. |
| | REMOVE ALL ROCK BALLAST AND PAVERS FROM ROOF SURFACE. | | DEMO EXIST. METAL SOFFIT PANELS AND PREP FOR NEW SOFFIT PANELS - REF. DETAILS. |
| | | | DEMO EXISTING METAL / WOOD SOFFIT SYSTEM AND PREP FOR NEW METAL SOFFIT PANELS. |

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Issues and Revisions

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03	05.30.24	Construction Documents

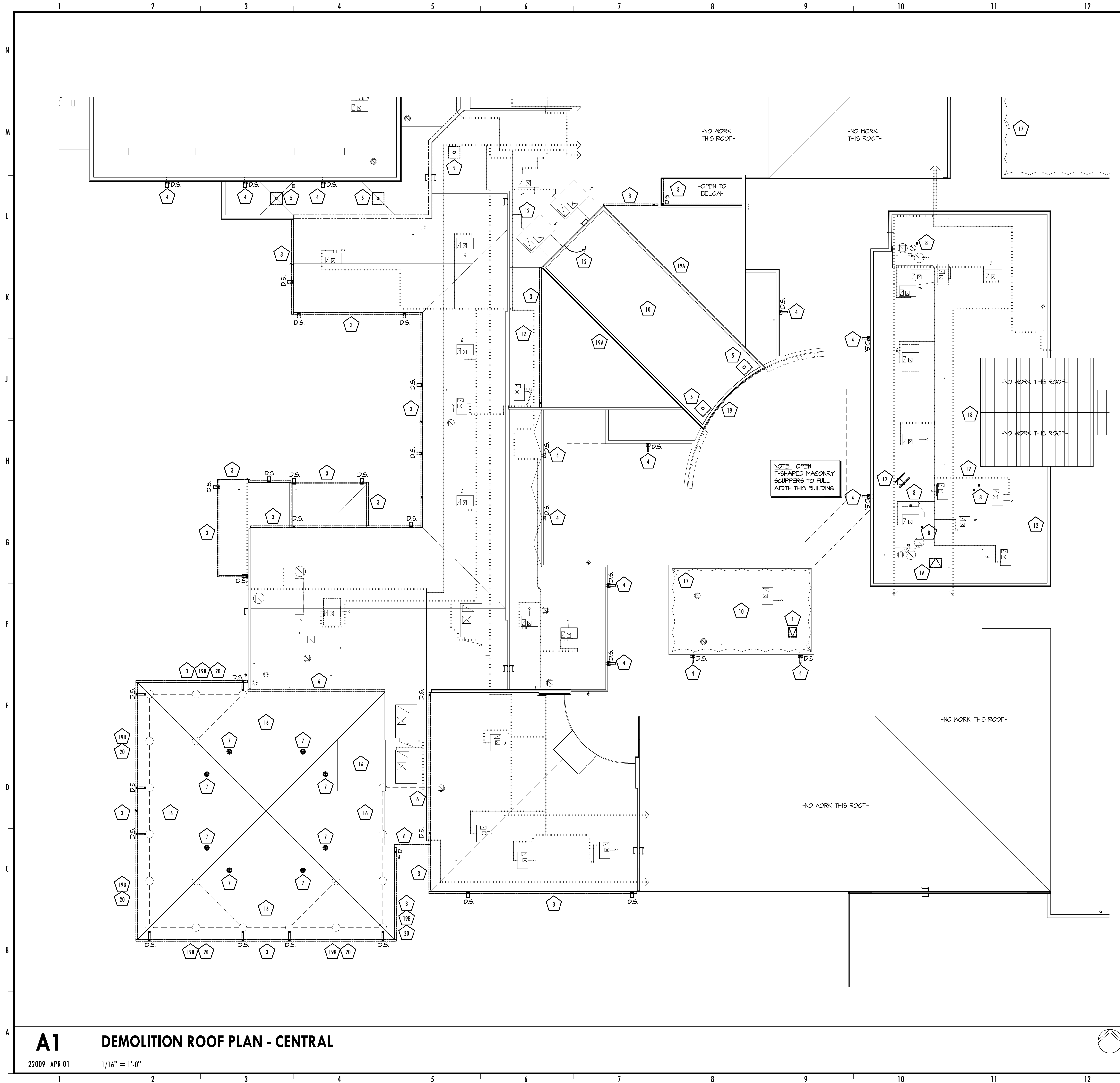
Bolton High School
Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
 Arlington, Tennessee 38002

DEMOLITION ROOF PLAN

Project No. 22009 Date 05.30.24

A2.4



Legend:

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | ROOF DRAIN (R.D.) | | WALKWAY PADS |
| | OVERFLOW DRAIN (O.F.) | | CONDUIT |
| | ROOF EQUIPMENT GURB (w/ CRICKET) | | PIPING |
| | ROOF EXHAUST FAN | | ROOF EXPANSION JOINT |
| | PITCH POCKET (P.P.) | | TAPERED INSULATION RIDGE / VALLEY |
| | ROOF PIPE PENETRATION (V.T.R.) | | TAPERED INSULATION LEVELS |
| | HEAT VENT (H.V.) | | EXISTING STORM DRAIN LINE - APPROX. |
| | ELECTRIC BOX AND CONDUIT DROP | | NEW STORM DRAIN LINE - ASSUMED |
| | ACCESS LADDER | | EXISTING STORM DRAIN CATCH BASIN |
| | ROOF HATCH | | THRU-WALL OVERFLOW (O.F.) |
| | LIGHTING ROD SYSTEM (L.R.) | | DOWNSPOUT (COLLECTION BOX) (D.S.) |
| | ANTENNA | | DOWNSPOUT (GUTTER) (D.S.) |
| | FIRE ALARM BELL | | SPLASH BLOCK (S.B.) |
| | EXTERIOR LIGHTING | | DRAIN BOOT AND PIPE (S.D.) |
| | SECURITY CAMERA | | PVC PIPE DRAIN (P.D.) |
| | SATELLITE | | HOSE BIB |
| | | | ROOF CORE SAMPLE |
| | | | TURBINE VENT |

Demolition & Surface Prep:

GENERAL DEMOLITION NOTES

- REMOVE ALL DEBRIS, SCRAP METAL, TRASH, AND SPONTANEOUS VEGETATION. IF ANY LOOSE OR UNCONNECTED EQUIPMENT IS FOUND, VERIFY WITH MSGS FOR DIRECTION ON RECONNECTION OR DISPOSAL.
- REATTACH EXISTING PERIMETER 2x EDGE WOOD BLOCKING PER ANSI/SPRI E5-1. IF ROTTEN OR DETERIORATED 2x WOOD BLOCKING IS FOUND, REMOVE AND REPLACE WITH NEW FIRE-RETARDANT-TREATED 2x WOOD BLOCKING (2021 IBC - 602.3.4.603). USE APPROVED FASTENERS PER 2021 IBC - 2304.10.6.3. NO PLYWOOD GAPS ALLOWED. IF FOUND, REMOVE AND REPLACE WITH 2x AS LISTED ABOVE.
- REMOVE ALL TERMINATION BARS, FLASHING, COUNTER FLASHING, GRAVEL GUARDS AND ANY OTHER MISC. METALS. PREP ROOF AND WALLS TO RECEIVE NEW MATERIALS PER SPECS.
- TEAR-OFF ALL EXISTING ROOFING LAYERS COMPLETELY AND IN ITS ENTIRETY DOWN TO EXISTING DECK. INSPECT ROOF DECK AND ASSOCIATED SUBSTRATES. REMOVE AND REPLACE ALL DAMAGED DECKING PER UNIT COST PRICING. PREP FOR NEW INSULATION AND ROOFING SYSTEM PER SPECS.
- ELIMINATE ALL EXISTING PITCH POCKETS AND REWORK ITEMS INTO APPROVED PIPE PENETRATIONS OR LINE SET ROOF BOXES - REF. DETAILS.
- EXISTING INTERIOR ROOF DRAINS TO REMAIN WHERE LOCATED. CONTRACTOR SHALL ENSURE EXISTING DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. AFTER LINES ARE CLEARED, PREP FOR NEW RETRO DRAINS. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
- WHERE EXISTING EQUIPMENT IS TO BE REMOVED, INSTALL NEW DECKING TO MATCH ADJACENT OVER OPENINGS.
- REMOVE ALL EXISTING EDGE METAL, COPING, GUTTERS, COLLECTOR HEADS, DOWNSPOUTS AND PREP FOR NEW. CONTRACTOR SHALL ENSURE EXISTING BOOTS AND STORM DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
- RAISE ALL EXISTING ROOF TOP EQUIPMENT, ELECTRIC BOXES AND CURBS TO ALLOW FOR 8" MIN. FLASHING.
- RAISE ALL GAS LINES AND ELECTRICAL CONDUIT AS NEED TO ALLOW FOR NEW INSULATION HEIGHTS.
- EXTEND ALL EXISTING "VENTS PIPES" TO 12" MIN. ABOVE ROOF AND 5 FT. MIN. ABOVE EXHAUST FANS TO MEET LOCAL CODE ORDINANCE 4031.
- CONTRACTOR SHALL REPAIR / REPLACE ANY AND ALL SUBSTRATES NOTED TO REMAIN IF DAMAGED DURING DEMOLITION. PROPER DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO DEMOLITION WOULD BE ADVISED.
- REMOVE AND REPLACE ALL EXISTING CONCRETE SPLASH BLOCKS. BUILD-UP GROUNDS BENEATH WHERE APPLICABLE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
- CLEAN AND WASH DOWN EXTERIOR WALLS AFTER EXISTING DOWNSPOUTS REMOVED.
- REMOVE ALL MASONRY WALL EXPANSION JOINT MATERIAL ABOVE ROOF LINES. REPLACE WITH CLOSED CELL BACKER ROD AND DOWN 195 SEALANT.
- REMOVE OR CAP-OFF ALL ABANDONED WIRING, CONDUIT, JUNCTION BOXES, ETC. BELOW ROOF - REVIEW WITH MSGS.
- CONTRACTOR TO WALK ROOFS WITH MSGS MP#E TEAM LEADS AND CAMPUS FACILITIES PERSONNEL PRIOR TO START OF WORK TO VERIFY ALL ITEMS TO BE REMOVED OR CAPPED.
- REFER TO DRAWINGS FOR OTHER DEMO NOTES.

- | | | | |
|--|--------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|
| | DEMO EXISTING 30x36 ROOF HATCH AND PREP FOR NEW ROOF HATCH. NOTE "1A" WILL BE A 36x48 HATCH | | DEMO ABANDONED MECHANICAL EQUIPMENT, GAP LINES AND INFILL ALL OPENINGS - VERIFY WITH MSGS PRIOR TO REMOVAL. |
| | DEMO EXISTING PARAPET WALL ABOVE ROOF TO COORDINATE WITH NEW INSULATION HEIGHTS. EXTEND TO BUILDING CONTROL JOINT. | | DEMO / CAP EXIST. ANTENNAS, SATELLITES, ELECTRICAL, DATA AND SECURITY CABLING, ETC. - VERIFY WITH MSGS PRIOR TO REMOVAL. |
| | DEMO EXISTING GUTTER AND DOWNSPOUT AND PREP FOR NEW GUTTER AND DOWNSPOUT SYSTEM. | | COORDINATE THE REMOVAL / INSTALLATION OF OLD AND NEW EXHAUST VENTS WITH THE CULINARY ARTS PROGRAM AND MSGS. |
| | DEMO EXISTING COLLECTOR HEAD AND DOWNSPOUT PREP FOR NEW COLLECTOR HEAD AND DOWNSPOUT SYSTEM. | | DEMO EXISTING WALL LADDER AT OLD GYM ROOF. REPLACE WITH NEW LADDER. PATCH ALL OPEN HOLES. |
| | DEMO EXISTING INTERIOR ROOF DRAIN OVER FLOW DRAIN WHERE APPLICABLE AND PREP FOR NEW RETRO-DRAIN. | | DEMO OLD WALL EQUIPMENT BRACKETS AND ROOFTOP EQUIPMENT SUPPORTS. PATCH ALL HOLES IN MASONRY WALLS AND ROOF. |
| | DEMO OR INFILL EXISTING INTERNAL ROOF GUTTERS WITH INSULATION. REFER TO DETAILS. | | DEMO ALL PLYWOOD DECKING AT CAFETERIA ROOF AND PREP FOR NEW. |
| | REMOVE EXISTING ROOF TURBINE VENTS. | | LIGHTING ROD SYSTEM SHALL BE REMOVED AND STORED FOR REINSTALL AND RE-CERTIFICATION BY LICENSED CONTRACTOR. |
| | REMOVE EXISTING ABANDONED PITCH POCKETS WHERE NO EQUIPMENT EXISTS. | | DEMO EXISTING EIFS WALL SYSTEM AND PREP FOR NEW METAL WALL PANELS - REF. DETAILS. |
| | REMOVE ALL ABANDONED AND USED STEEL PIPE SUPPORTS - EXCEPT ONE AT GAS MAINS. RESUPPORT WITH NEW PIPE SUPPORTS. | | DEMO EXIST. METAL WALL PANELS AND PREP FOR NEW WALL PANELS - REF. DETAILS. |
| | REMOVE ALL ROCK BALLAST AND PAVERS FROM ROOF SURFACE. | | DEMO EXIST. METAL SOFFIT PANELS AND PREP FOR NEW SOFFIT PANELS - REF. DETAILS. |
| | | | DEMO EXISTING METAL / WOOD SOFFIT SYSTEM AND PREP FOR NEW METAL SOFFIT PANELS. |

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Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

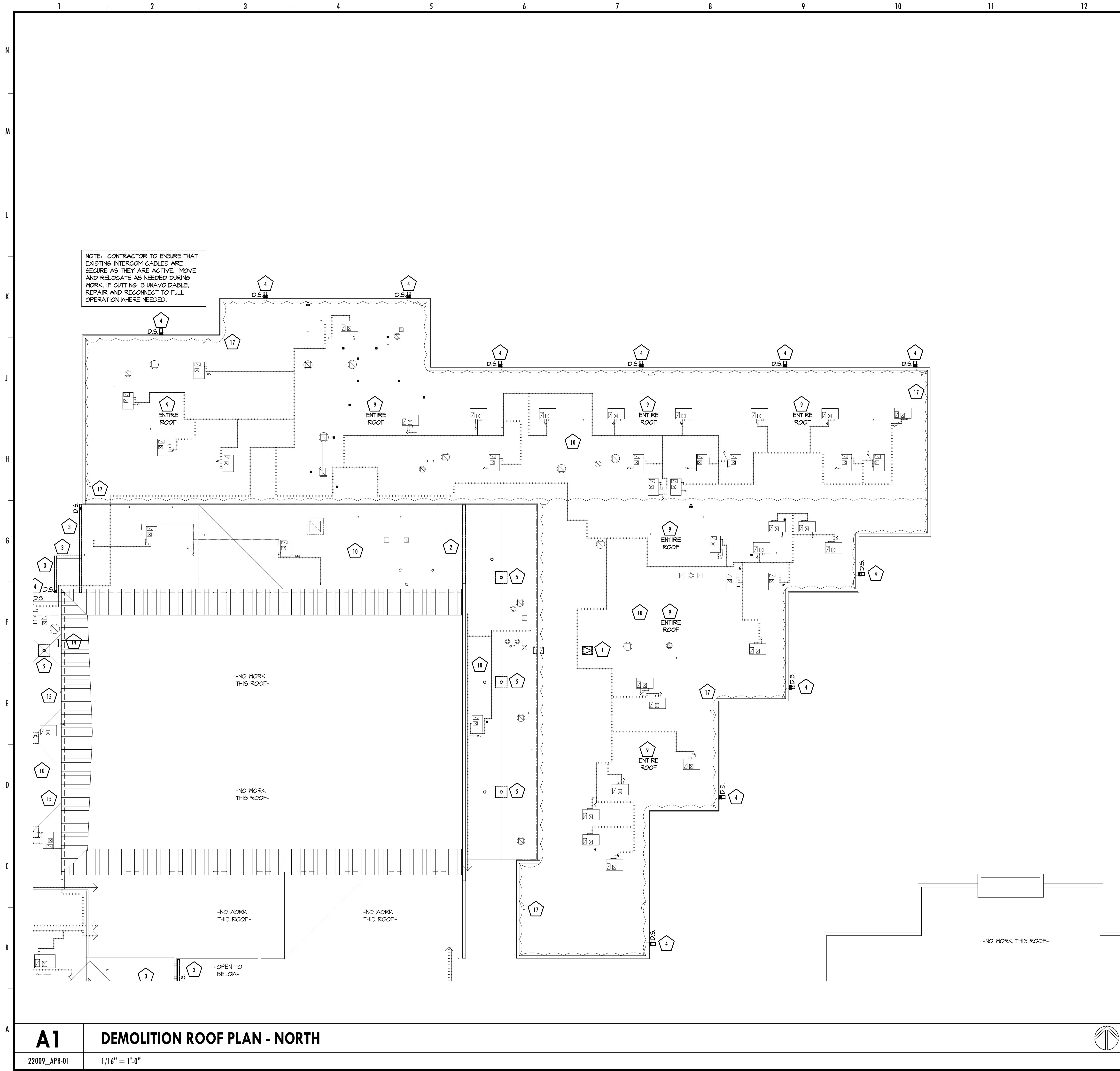
Bolton High School
Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
 Arlington, Tennessee 38002

DEMOLITION ROOF PLAN

Project No. 22009 Date 05.30.24

A2.5



Legend:

	ROOF DRAIN (R.D.)		WALKWAY PADS
	OVERFLOW DRAIN (O.F.)		CONDUIT
	ROOF EQUIPMENT GURB (w/ CRICKET)		PIPING
	ROOF EXHAUST FAN		ROOF EXPANSION JOINT
	PITCH POCKET (P.P.)		TAPERED INSULATION RIDGE / VALLEY
	ROOF PIPE PENETRATION (V.T.R.)		TAPERED INSULATION LEVELS
	HEAT VENT (H.V.)		EXISTING STORM DRAIN LINE - APPROX.
	ELECTRIC BOX AND CONDUIT DROP		NEW STORM DRAIN LINE - ASSUMED
	ACCESS LADDER		EXISTING STORM DRAIN CATCH BASIN
	ROOF HATCH		THRU-WALL OVERFLOW (O.F.)
	LIGHTING ROD SYSTEM (L.R.)		DOWNSPOUT (COLLECTION BOX) (D.S.)
	ANTENNA		DOWNSPOUT (GUTTER) (D.S.)
	FIRE ALARM BELL		SPLASH BLOCK (S.B.)
	EXTERIOR LIGHTING		DRAIN BOOT AND PIPE (S.D.)
	SECURITY CAMERA		PVC PIPE DRAIN (P.D.)
	SATELLITE		HOSE BIB
			ROOF CORE SAMPLE
			TURBINE VENT

Demolition & Surface Prep:

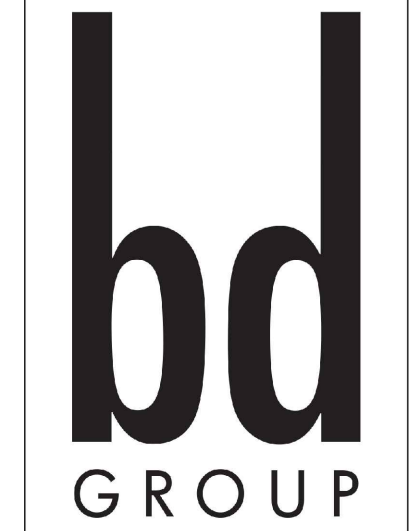
GENERAL DEMOLITION NOTES

- REMOVE ALL DEBRIS, SCRAP METAL, TRASH, AND SPONTANEOUS VEGETATION. IF ANY LOOSE OR UNCONNECTED EQUIPMENT IS FOUND, VERIFY WITH MSCS FOR DIRECTION ON RECONNECTION OR DISPOSAL.
- REATTACH EXISTING PERIMETER 2x EDGE WOOD BLOCKING PER ANSI/SPRI E5-1. IF ROTTEN OR DETERIORATED 2x WOOD BLOCKING IS FOUND, REMOVE AND REPLACE WITH NEW FIRE-RETARDANT-TREATED 2x WOOD BLOCKING (2021 IBC - 602.3.4.603). USE APPROVED FASTENERS PER 2021 IBC - 2304.10.6.3. NO PLYWOOD GAPS ALLOWED. IF FOUND, REMOVE AND REPLACE WITH 2x AS LISTED ABOVE.
- REMOVE ALL TERMINATION BARS, FLASHING, COUNTER FLASHING, GRAVEL GUARDS AND ANY OTHER MISC. METALS. PREP ROOF AND WALLS TO RECEIVE NEW MATERIALS PER SPECS.
- TEAR-OFF ALL EXISTING ROOFING LAYERS COMPLETELY AND IN ITS ENTIRETY DOWN TO EXISTING DECK. INSPECT ROOF DECK AND ASSOCIATED SUBSTRATES. REMOVE AND REPLACE ALL DAMAGED DECKING PER UNIT COST PRICING. PREP FOR NEW INSULATION AND ROOFING SYSTEM PER SPECS.
- ELIMINATE ALL EXISTING PITCH POCKETS AND REWORK ITEMS INTO APPROVED PIPE PENETRATIONS OR LINE SET ROOF BOXES - REF. DETAILS.
- EXISTING INTERIOR ROOF DRAINS TO REMAIN WHERE LOCATED. CONTRACTOR SHALL ENSURE EXISTING DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. AFTER LINES ARE CLEARED, PREP FOR NEW RETRO DRAINS. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
- WHERE EXISTING EQUIPMENT IS TO BE REMOVED, INSTALL NEW DECKING TO MATCH ADJACENT OVER OPENINGS.
- REMOVE ALL EXISTING EDGE METAL, COPING, GUTTERS, COLLECTOR HEADS, DOWNSPOUTS AND PREP FOR NEW. CONTRACTOR SHALL ENSURE EXISTING BOOTS AND STORM DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
- RAISE ALL EXISTING ROOF TOP EQUIPMENT, ELECTRIC BOXES AND CURBS TO ALLOW FOR 8" MIN. FLASHING.
- RAISE ALL GAS LINES AND ELECTRICAL CONDUIT AS NEED TO ALLOW FOR NEW INSULATION HEIGHTS.
- EXTEND ALL EXISTING "VENTS PIPES" TO 12" MIN. ABOVE ROOF AND 5 FT. MIN. ABOVE EXHAUST FANS TO MEET LOCAL CODE ORDINANCE 9031.
- CONTRACTOR SHALL REPAIR / REPLACE ANY AND ALL SUBSTRATES NOTED TO REMAIN IF DAMAGED DURING DEMOLITION. PROPER DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO DEMOLITION WOULD BE ADVISED.
- REMOVE AND REPLACE ALL EXISTING CONCRETE SPLASH BLOCKS. BUILD-UP GROUNDS BENEATH WHERE APPLICABLE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
- CLEAN AND WASH DOWN EXTERIOR WALLS AFTER EXISTING DOWNSPOUTS REMOVED.
- REMOVE ALL MASONRY WALL EXPANSION JOINT MATERIAL ABOVE ROOF LINES. REPLACE WITH CLOSED CELL BACKER ROD AND DOW 195 SEALANT.
- REMOVE OR CAP-OFF ALL ABANDONED WIRING, CONDUIT, JUNCTION BOXES, ETC. BELOW ROOF - REVIEW WITH MSCS.
- CONTRACTOR TO WALK ROOFS WITH MSCS MP&E TEAM LEADS AND CAMPUS FACILITIES PERSONNEL PRIOR TO START OF WORK TO VERIFY ALL ITEMS TO BE REMOVED OR CAPPED.
- REFER TO DRAWINGS FOR OTHER DEMO NOTES.

- | | | | |
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| | DEMO EXISTING GUTTER AND DOWNSPOUT AND PREP FOR NEW GUTTER AND DOWNSPOUT SYSTEM. | | COORDINATE THE REMOVAL / INSTALLATION OF OLD AND NEW EXHAUST VENTS WITH THE CULINARY ARTS PROGRAM AND MSCS. |
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| | REMOVE EXISTING ROOF TURBINE VENTS. | | LIGHTING ROD SYSTEM SHALL BE REMOVED AND STORED FOR REINSTALL AND RE-CERTIFICATION BY LICENSED CONTRACTOR. |
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| | REMOVE ALL ROCK BALLAST AND PAVERS FROM ROOF SURFACE. | | DEMO EXIST. METAL SOFFIT PANELS AND PREP FOR NEW SOFFIT PANELS - REF. DETAILS. |
| | | | DEMO EXISTING METAL / WOOD SOFFIT SYSTEM AND PREP FOR NEW METAL SOFFIT PANELS. |

A1 DEMOLITION ROOF PLAN - NORTH

22009_APR-01 1/16" = 1'-0"



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Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Bolton High School

Roof Replacement Package 2

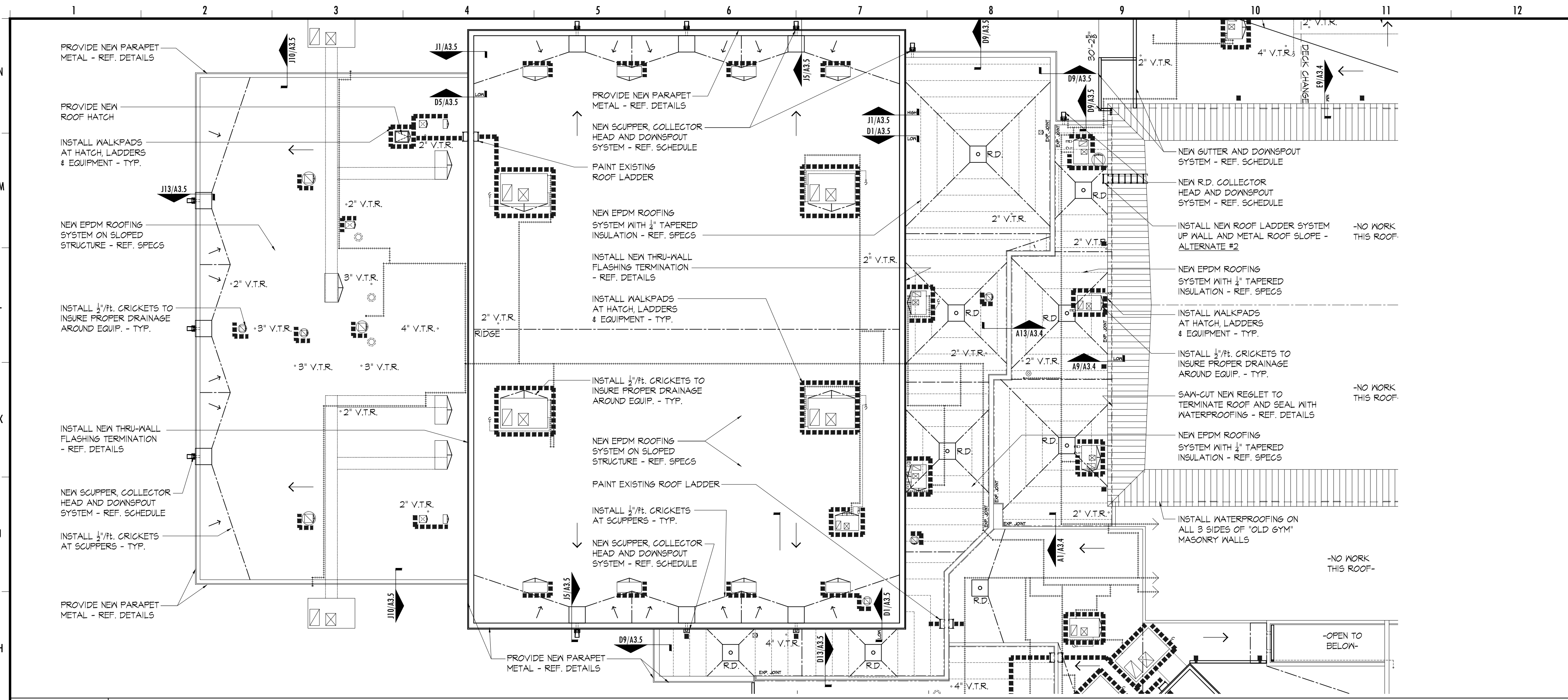
TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
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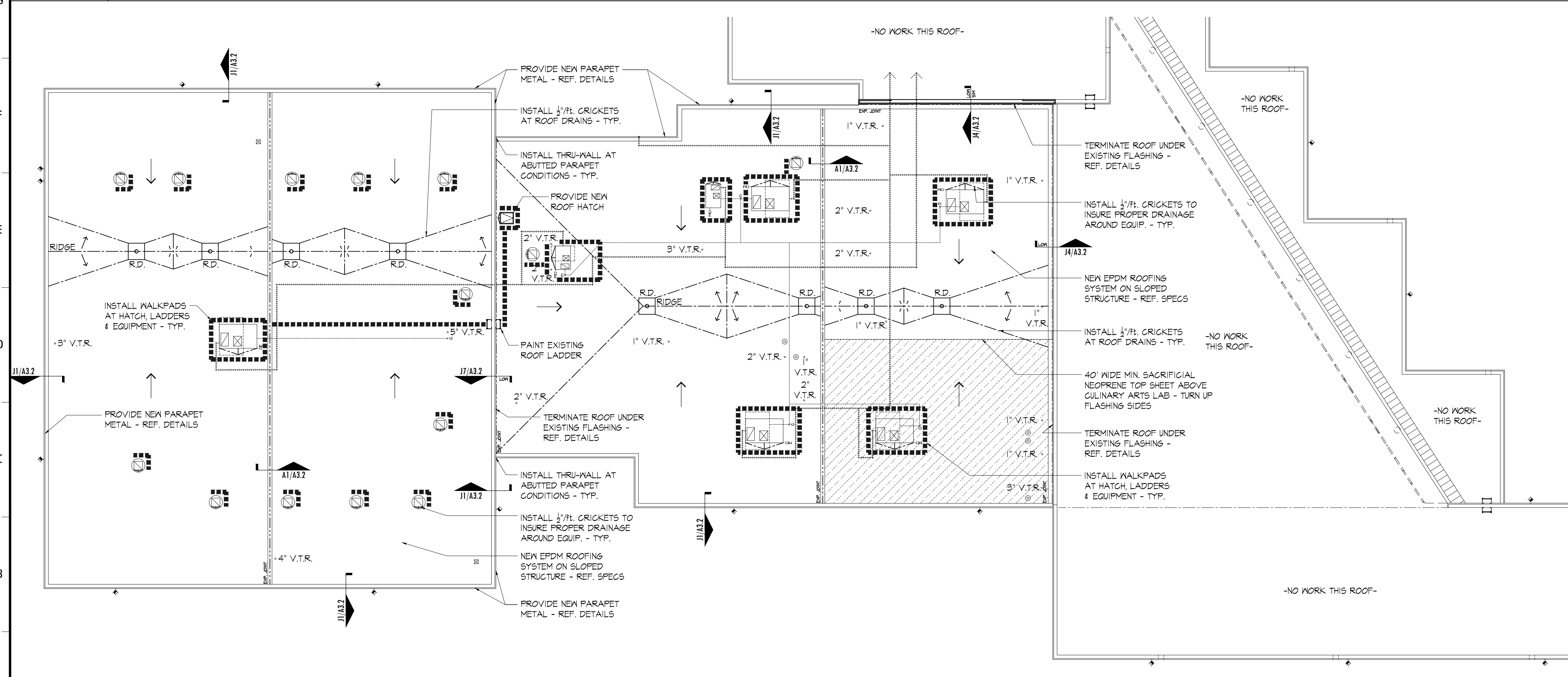
DEMOLITION ROOF PLAN

Project No. 22009 Date 05.30.24

A2.6



G1 ROOF PLAN - GYM
 22009_APR-01 1/16" = 1'-0"



A1 ROOF PLAN - SOUTH
 22006_APR-01 1/16" = 1'-0"

Legend:

	ROOF DRAIN (R.D.)		WALKWAY PADS
	OVERFLOW DRAIN (O.F.)		CONDUIT
	ROOF EQUIPMENT CURB (w/ CRICKET)		PIPING
	ROOF EXHAUST FAN		ROOF EXPANSION JOINT
	PITCH POCKET (P.P.)		TAPERED INSULATION RIDGE / VALLEY
	ROOF PIPE PENETRATION (V.T.R.)		TAPERED INSULATION LEVELS
	HEAT VENT (FLUE)		EXISTING STORM DRAIN LINE - APPROX.
	ELECTRIC BOX AND CONDUIT DROP		NEW STORM DRAIN LINE - ASSUMED
	ACCESS LADDER		EXISTING STORM DRAIN CATCH BASIN
	ROOF HATCH		THRU-WALL OVERFLOW (O.F.)
	LIGHTING ROD SYSTEM (LR)		DOWNSPOUT (COLLECTION BOX) (D.S.)
	ANTENNA		DOWNSPOUT (GUTTER) (D.S.)
	FIRE ALARM BELL		SPLASH BLOCK (S.B.)
	EXTERIOR LIGHTING		DRAIN BOOT AND PIPE (S.D.)
	SECURITY CAMERA		PVC PIPE DRAIN (P.D.)
	SATELLITE		HOSE BIB
			ROOF CORE SAMPLE
			TURBINE VENT

Scoping:

GENERAL:

- INSPECT ALL EXISTING BRICK HIGH AND PARAPET WALLS NOT COVERED BY NEW MEMBRANE AND TUCKPOINT MORTAR WHERE OLD GANGWAYS WERE LEFT EXPOSED OR EROSION HAS OCCURRED. PROVIDE WORK PER UNIT COST PRICING.
- COORDINATE WITH MFE SUBS TO DISCONNECT ALL ROOFTOP EQUIPMENT, REROUTE AND RAISE ALL PIPING AND CONDUIT LINES TO OPERATE OVER NEW INSULATION HEIGHTS.
- SAND, PRIME AND PAINT EXISTING CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
- ON NORTH WEST AND SOUTH FACADE OF "OLD GYMNASIUM", COAT ENTIRE MASONRY WALL WITH PROSOCCO SILOXINE WATER REPELLANT.

5A & 5B

- REMOVE ALL ROOFINGS DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
- ROOFING SYSTEM SHALL CONSIST OF 60 MIL. FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
- INSTALL SACRIFICIAL NEOPRENE TOP SHEET ABOVE CULINARY ARTS PROGRAM - REF. SPECS.
- INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFPI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
- INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
- INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDING EXPANSION JOINTS.
- INSTALL NEW ROOF HATCH.
- RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
- INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
- PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
- INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

5A & 5B

- REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO SLOPED ACOUSTICAL METAL DECK (9A) OR PRECAST CONCRETE PLANK (9B) & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- FLUTE FILL INSULATION TO REMAIN IN ACOUSTICAL DECK SYSTEM (9A). FULLY CLEAN CONCRETE DECK PER MANUFACTURER TO ENSURE BONDING PROPERTIES OF NEW INSULATION (9B).
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED ON ACOUSTICAL METAL DECK WITH WHITE SCREWS (9A) AND FULLY ADHERED ON CONCRETE PLANK DECK (9B). BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
- ROOFING SYSTEM SHALL CONSIST OF 60 MIL. FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
- INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFPI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
- INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOT AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
- RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
- INSTALL NEW ROOF HATCH.
- RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
- INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
- PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
- INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

5C & 5D

- REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO FLAT METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. INSTALL 1/4" TAPERED INSULATION PACKAGE. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
- ROOFING SYSTEM SHALL CONSIST OF 60 MIL. FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
- INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFPI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
- INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
- INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOT AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
- INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDING EXPANSION JOINTS.
- RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
- RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
- INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
- PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
- INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

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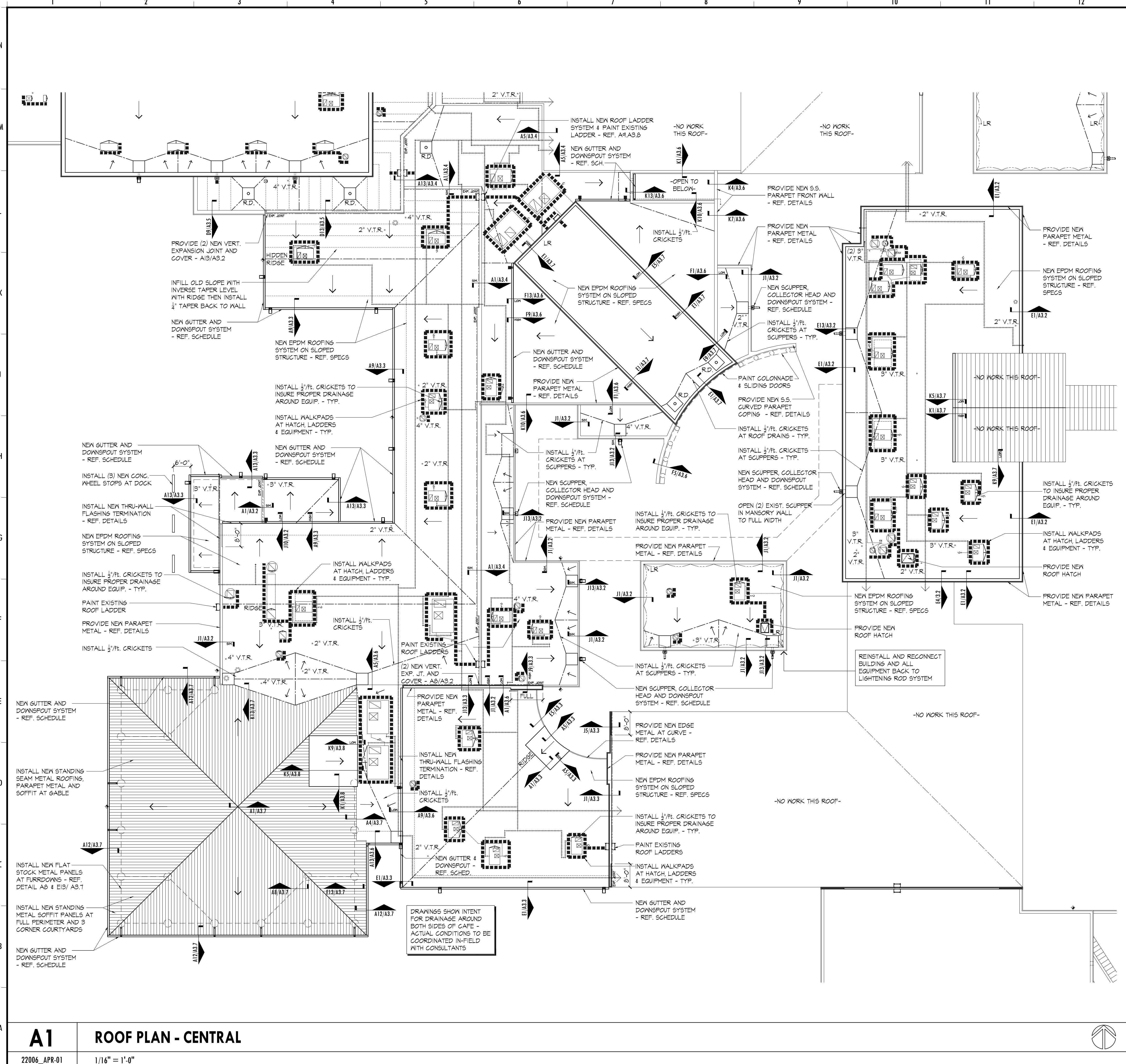
Date	Revision
01 12.20.23	Schematic Design
02 03.28.24	Design Development
03 05.30.24	Construction Documents

Bolton High School
 Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
 Arlington, Tennessee 38002

ROOF PLAN
 Project No. 22009 Date 05.30.24

A2.7



Scoping:

- 3D & 3E**
- REMOVE ALL ROOFING DOWN TO SLOPED COMPOSITE CONCRETE DECK (3D) OR METAL DECK (3E) & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
 - FULLY CLEAN CONCRETE DECK PER MANUFACTURER TO ENSURE BONDING PROPERTIES OF NEW INSULATION (3D).
 - INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE FULLY ADHERED ON CONCRETE DECK (3D) AND MECHANICALLY FASTENED ON METAL DECK (3E). BE MINDFUL THAT EXISTING CONDUIT & OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
 - ROOFING SYSTEM SHALL CONSIST OF 60 MIL. FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
 - INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
 - INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTHS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
 - INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTHS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
 - RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHINGS WITH MASONRY CONTRACTOR.
 - INSTALL NEW ROOF HATCH.
 - RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
 - INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
 - PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTHS.
 - INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

1 - CAFETERIA

- REMOVE ALL ROOFING AND PLYWOOD DECKING DOWN TO STRUCTURE. REPLACE ALL DECKING WITH 3/4" FIRE-TREATED CDX PLYWOOD. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED.
- INSTALL 1/2" FIRE-TREATED CDX PLYWOOD NAILER WITH MANUFACTURER'S LISTED HIGH-TEMP UNDERLAYMENT.
- ROOFING SYSTEM SHALL CONSIST OF STANDING SEAM METAL ROOF, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
- INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
- INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. SPILL TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTHS (SAND, PATCH & PAINT) AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
- CLEAN ALL EXISTING METAL WALL PANELS AND SURFACES. REMOVE ALL ANIMAL NEST AND HABITATS. REMOVE EXISTING SOFFIT METAL PANELS AND INSTALL NEW METAL SOFFIT PANELS AND METAL FASCIA WRAP. PROVIDE ALL TRIMS, EDGINGS AND ESCUTCHEONS TO MAKE AREA WATER TIGHT. REFER TO DETAILS.

8A - AUDITORIUM (TOP AND SIDE WINGS)

- REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO TECTUM DECKING & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- MECHANICALLY FASTEN BASE SHEET WITH TUBE-LOK FASTENERS TO TECTUM DECKING.
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE FULLY-ADHERED. BE MINDFUL THAT EXISTING CONDUIT & OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
- ROOFING SYSTEM SHALL CONSIST OF 60 MIL. FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
- INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
- INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
- INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTHS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
- RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
- INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
- PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTHS.
- INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.
- REMOVE AND INSTALL NEW METAL WALL PANELS. REFER TO DETAILS. PAINT METAL COLONNADE TO MATCH METAL PANELS. SLIDING DOOR PANELS TO REMAIN - PAINT TO MATCH.

8A (LOW), 8B, 8C, 8D, 8E & 8F

- REMOVE ALL ROOFING DOWN TO SLOPED METAL DECKS & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECH. FASTENED. BE MINDFUL THAT EXISTING CONDUIT & OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
- INSTALL INVERSE TAPERED INSULATION PACKAGE TO BACKFILL NORTH SLOPE ON ROOF (8D) AND PROVIDE LEVEL START FOR NEW 1/4" TAPERED INSULATION PACKAGE TO MEET HIDDEN RIDGE. SEE AREA ON PLANS.
- ROOFING SYSTEM SHALL CONSIST OF 60 MIL. FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
- INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SFRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
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- RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHINGS WITH MASONRY CONTRACTOR.
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10

- REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
- INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSF) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECH. FASTENED. EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
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- REINSTALL AND RECONNECT BUILDING AND ALL EQUIPMENT BACK TO LIGHTNING ROD SYSTEM. PROVIDE ALL MISSING COMPONENTS AND MODIFICATION NECESSARY TO COMPLETE THE INSTALLATION. RE-CERTIFICATION IS REQUIRED BY LICENSED CONTRACTOR.

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W. R. GROSS REGISTERED ARCHITECT
 STATE OF TENNESSEE
 05-30-24

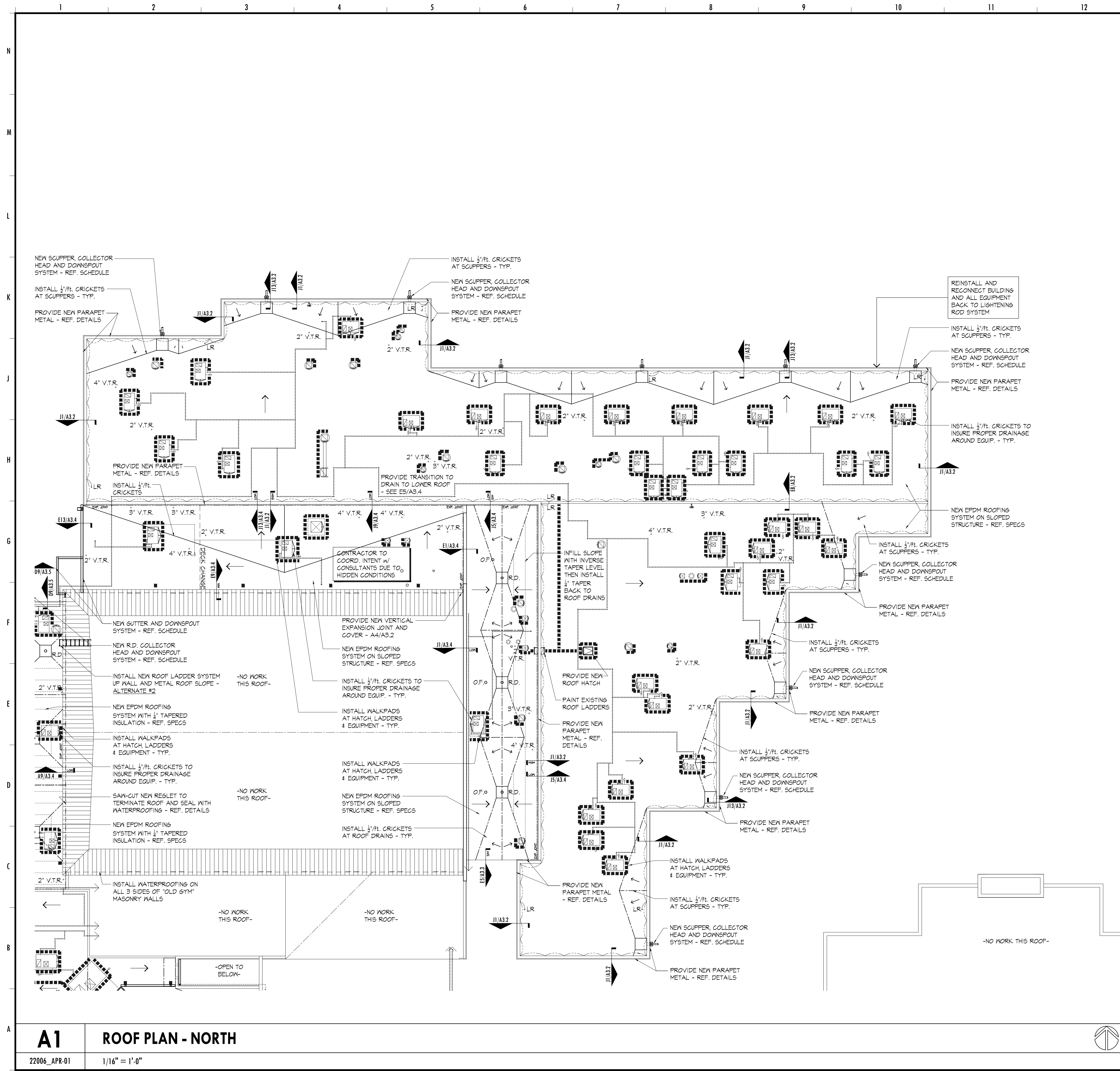
Issue	Revision
01	12.20.23 Schematic Design
02	03.28.24 Design Development
03	05.30.24 Construction Documents

Bolton High School
 Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607
 7323 Brunswick Rd
 Arlington, Tennessee 38002

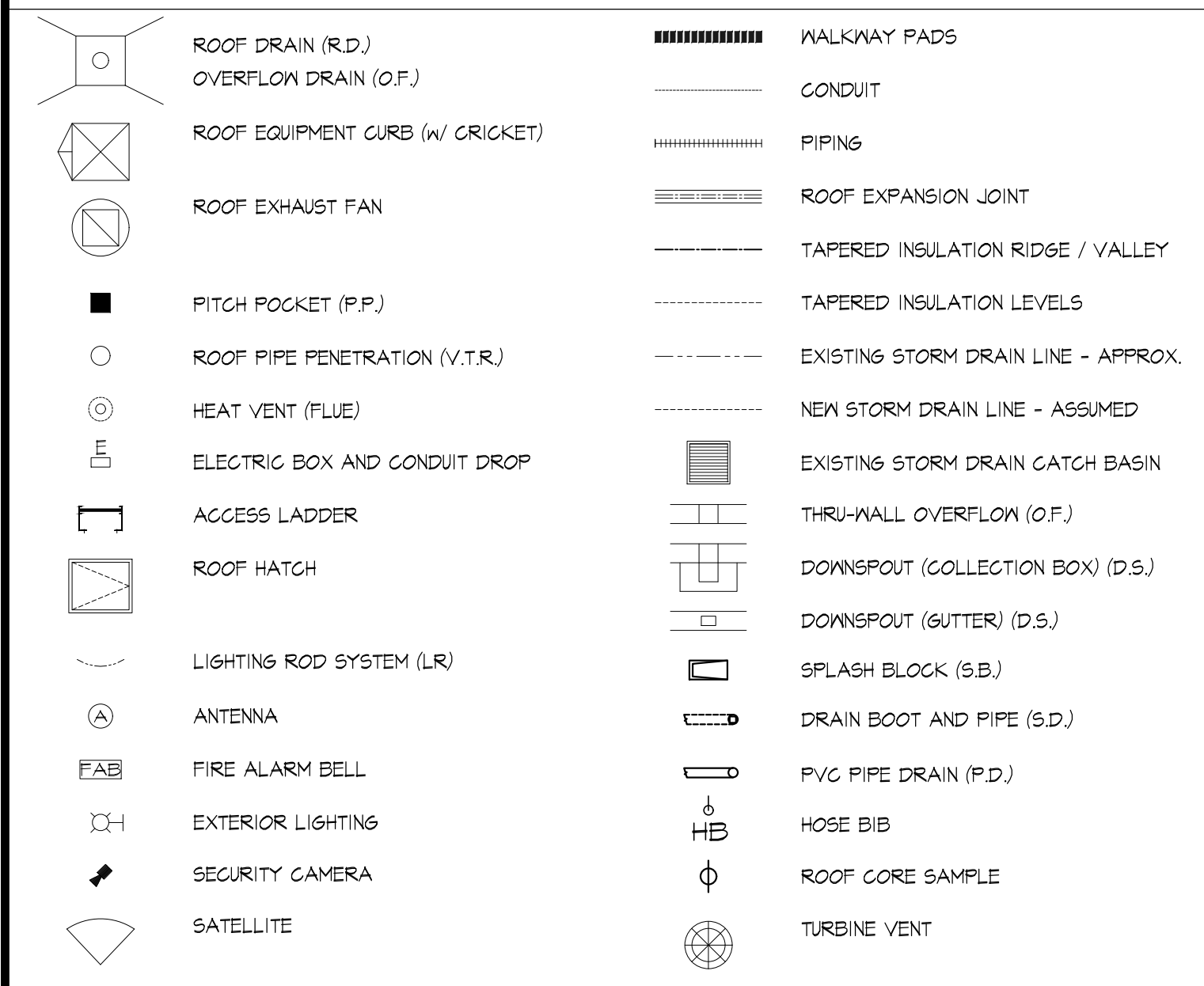
ROOF PLAN
 Project No. 22009 Date 05.30.24

A1 ROOF PLAN - CENTRAL
 22006_APR-01 1/16" = 1'-0"

A2.8



Legend:



Scoping:

- 4A & 4B**
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 - REINSTALL AND RECONNECT BUILDINGS AND ALL EQUIPMENT BACK TO LIGHTNING ROD SYSTEM. PROVIDE ALL MISSING COMPONENTS AND MODIFICATION NECESSARY TO COMPLETE THE INSTALLATION. RE-CERTIFICATION IS REQUIRED BY LICENSED CONTRACTOR.
- 4B**
- REMOVE ALL ROOFING DOWN TO SLOPED WOOD DECK (HIGH) AND METAL DECK (LOW) & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
 - INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 P.S.I.) w/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS. ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
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 - INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDING EXPANSION JOINTS.
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 - ALTERNATE #1 - REMOVE AND REPLACE ALL GYM STEEL WINDOWS WITH NEW ALUMINUM WINDOW SYSTEM - REF. TO DETAILS.
- 4C**
- REMOVE ALL ROOFING DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
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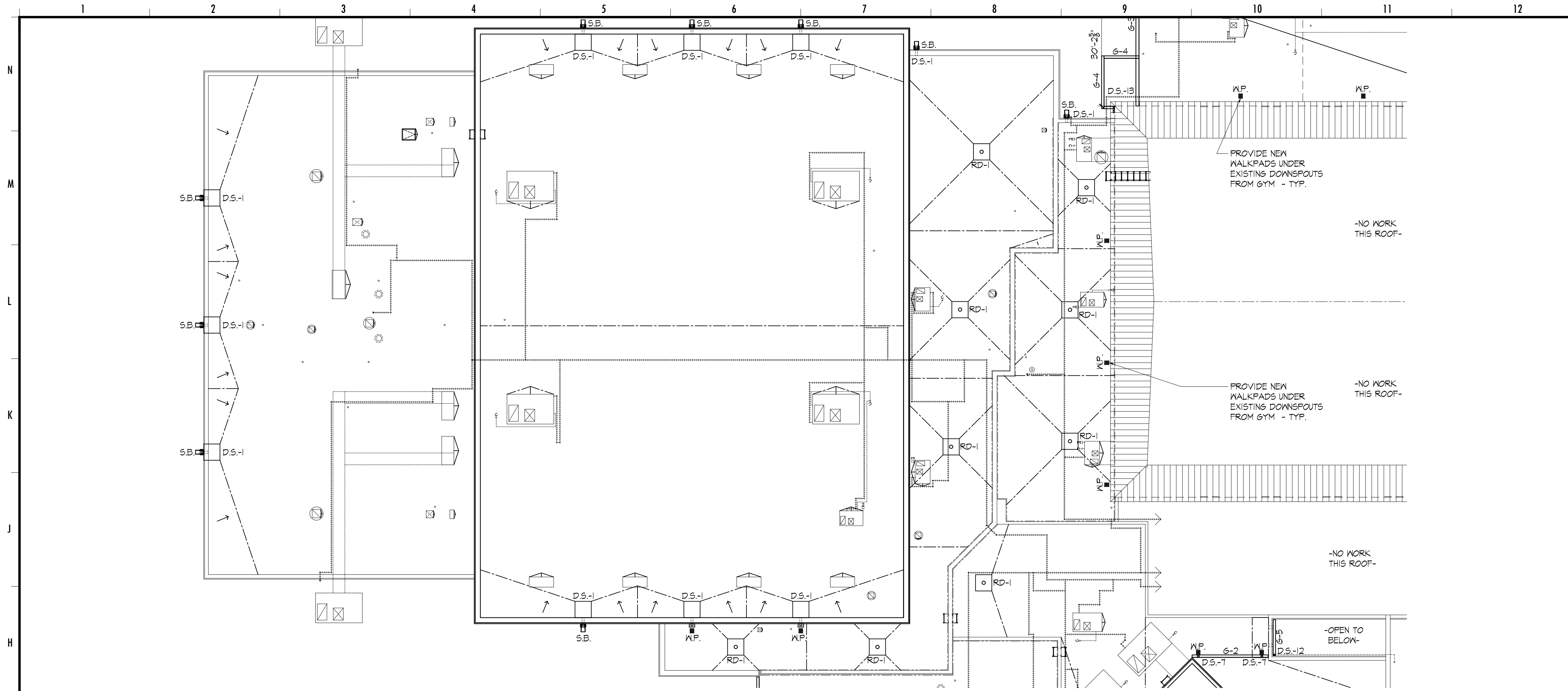
Date	Revision
01.12.2023	Schematic Design
02.03.2024	Design Development
03.05.2024	Construction Documents

Bolton High School
 Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
 Arlington, Tennessee 38002

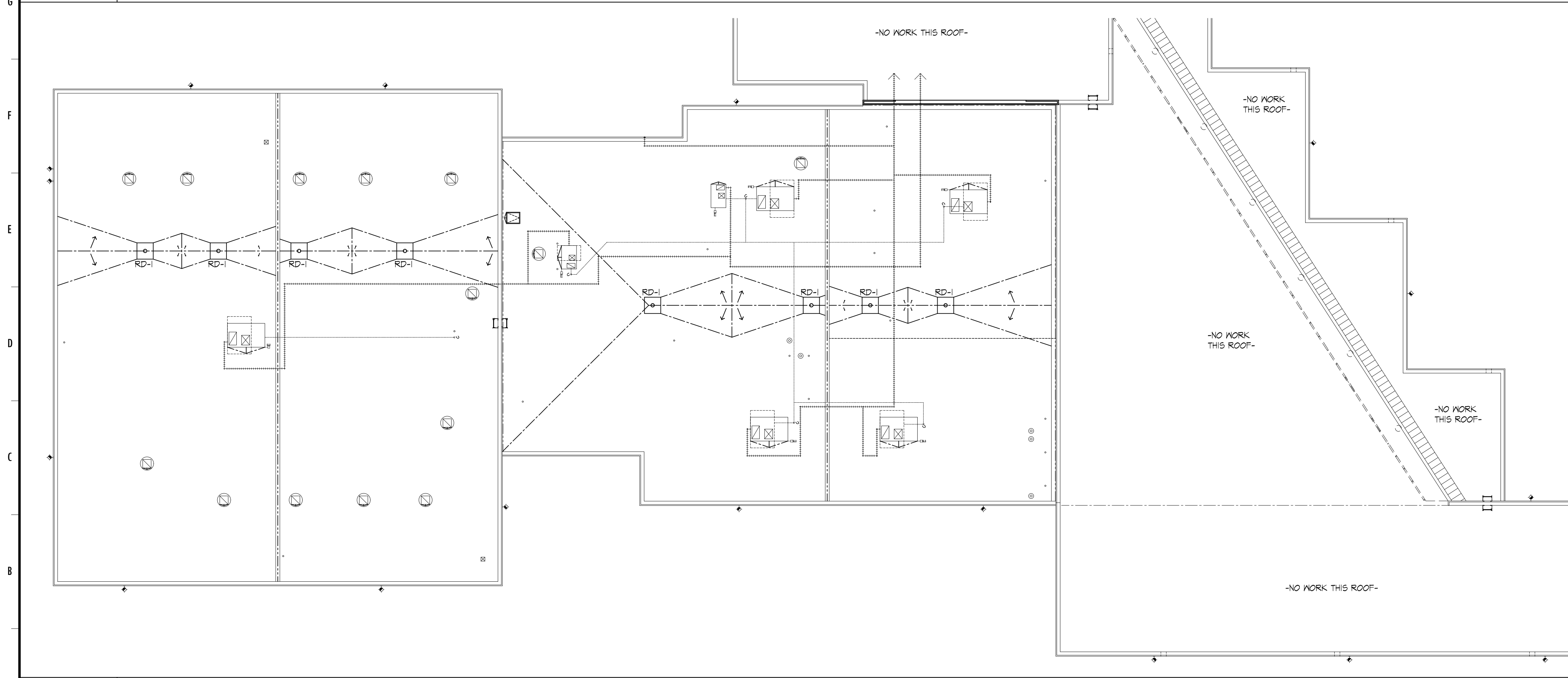
Project No. 22009 Date 05.30.24
ROOF PLAN
A2.9

A1 ROOF PLAN - NORTH
 22006_APR-01 1/16" = 1'-0"



G1 DRAINAGE PLAN - GYM

22009_APR-01 1/16" = 1'-0"



A1 DRAINAGE PLAN - SOUTH

22006_APR-01 1/16" = 1'-0"

Legend:

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | ROOF DRAIN (RD.) | | WALKWAY PADS |
| | OVERFLOW DRAIN (OF.) | | CONDUIT |
| | ROOF EQUIPMENT CURB (w/ CRICKET) | | PIPING |
| | ROOF EXHAUST FAN | | ROOF EXPANSION JOINT |
| | PITCH POCKET (P.P.) | | TAPERED INSULATION RIDGE / VALLEY |
| | ROOF PIPE PENETRATION (V.T.R.) | | TAPERED INSULATION LEVELS |
| | HEAT VENT (FLUE) | | EXISTING STORM DRAIN LINE - APPROX. |
| | ELECTRIC BOX AND CONDUIT DROP | | NEW STORM DRAIN LINE - ASSUMED |
| | ACCESS LADDER | | EXISTING STORM DRAIN CATCH BASIN |
| | ROOF HATCH | | THRU-WALL OVERFLOW (OF.) |
| | LIGHTING ROD SYSTEM (LR) | | DOWNSPOUT (COLLECTION BOX) (D.S.) |
| | ANTENNA | | DOWNSPOUT (GUTTER) (D.S.) |
| | FIRE ALARM BELL | | SPLASH BLOCK (S.B.) |
| | EXTERIOR LIGHTING | | DRAIN BOOT AND PIPE (S.D.) |
| | SECURITY CAMERA | | PVC PIPE DRAIN (P.D.) |
| | SATELLITE | | HOSE BIB |
| | | | ROOF CORE SAMPLE |
| | | | TURBINE VENT |

Drain Schedule:

- RD-1 EXISTING ROOF DRAIN WITH NEW RETRO-DRAIN - FIELD VERIFY DRAIN SIZE.
- RD-2 N/A
- P.D. EXISTING PIPE DRAIN - REPLACE AND RETROFIT UPPER PORTIONS AND CONCEAL IN NEW SOFFIT
- G-1 1x10 GUTTER
- G-2 1x6 GUTTER
- G-3 1x7 GUTTER
- G-4 4x4 GUTTER
- G-5 5x5 GUTTER

- D.S.-1 6x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
- D.S.-2 4x6 DOWNSPOUT - CENTER B/W EXP JT AND WINDOW -OR- BLDG CORNER AND WINDOW
- D.S.-3 4x6 DOWNSPOUT - CENTER B/W WINDOW OR BRICK ELEMENTS
- D.S.-4 4x6 DOWNSPOUT - SET ON ADJACENT WALL
- D.S.-5 4x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
- D.S.-6 4x6 DOWNSPOUT - CENTER ON COLUMN, SECTION OF WALL OR BUILDING FACADE *SEE NOTE 6*
- D.S.-7 4x6 DOWNSPOUT - SET OFF CORNER OF BUILDING OR MASONRY OPENING
- D.S.-8 4x5 DOWNSPOUT - CENTER ON COLUMN
- D.S.-9 4x4 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
- D.S.-10 6x6 DOWNSPOUT - CENTER OF WALL *SEE NOTE 6*
- D.S.-11 5x7 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
- D.S.-12 4x4 DOWNSPOUT - SET ON ADJACENT WALL AND RUN HORIZONTAL HIGH ALONG WALL - SPILL TO YARD
- D.S.-13 4x4 DOWNSPOUT - TIE INTO SIDE OF EXISTING 4x6 OLD GYM DOWNSPOUT

- S.B. PROVIDE NEW CONCRETE SPLASH BLOCK FOR ON-GROUND DOWNSPOUTS - SEE A4/A3.9.
- S.D. PROVIDE REDUCERS AND CONNECTION PIECES TO TIE INTO EXISTING BOOT, TRENCH AND STORM DRAIN SYSTEM - SEE A1/A3.9.
- W.P. PROVIDE NEW WALK PAD (SPLASH PAD) FOR ON-ROOF DOWNSPOUTS - E10/A3.1 OR A10/A3.9.
- W.X. NEW DRAIN WILL SPILL ONTO EXISTING CONCRETE WALKWAY AS A SPLASH BLOCK WOULD BE IN THE PATH OF TRAVEL - A1/A3.9.
- M.A. NEW DRAIN WILL SPILL ONTO EXISTING METAL AWNING.

- NOTES:**
1. BACK-FILL, SOD OR MULCH ALL GROUND AREAS DISTURBED DURING DRAIN INSTALLATION OR BY PREVIOUS WASH-OUT. FILL TO MATCH ELEVATION OF ADJACENT LAND AND ENSURE DRAINAGE AWAY FROM BUILDING. PROTECT, REPLANT OR REPLACE ALL DISTURBED LANDSCAPING.
 2. PATCH OLD MOUNTING HOLES IN MASONRY WALL FROM REMOVED D.S. BRACKETS AND SUPPORTS.
 3. INSTALL SCREENS AT ALL SCUPPER LOCATIONS AND GUTTERS.
 4. TAPER NEW DOWNSPOUTS WHERE NEEDED TO FIT INTO EXISTING CAST IRON BOOTS.
 5. SAND, PRIME AND PAINT EXISTING AND NEW CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
 6. NEW CAST IRON BOOT TO MATCH EXISTING SHALL BE INSTALLED AT D.S.-10 & D.S.-6 LOCATION B/W 1" CAFE AND BUILDING "BE" - PAINT. SEE DETAIL A14/A3.9.
 7. HANGERS AND STRAPS REQUIRED ON ALL GUTTERS.

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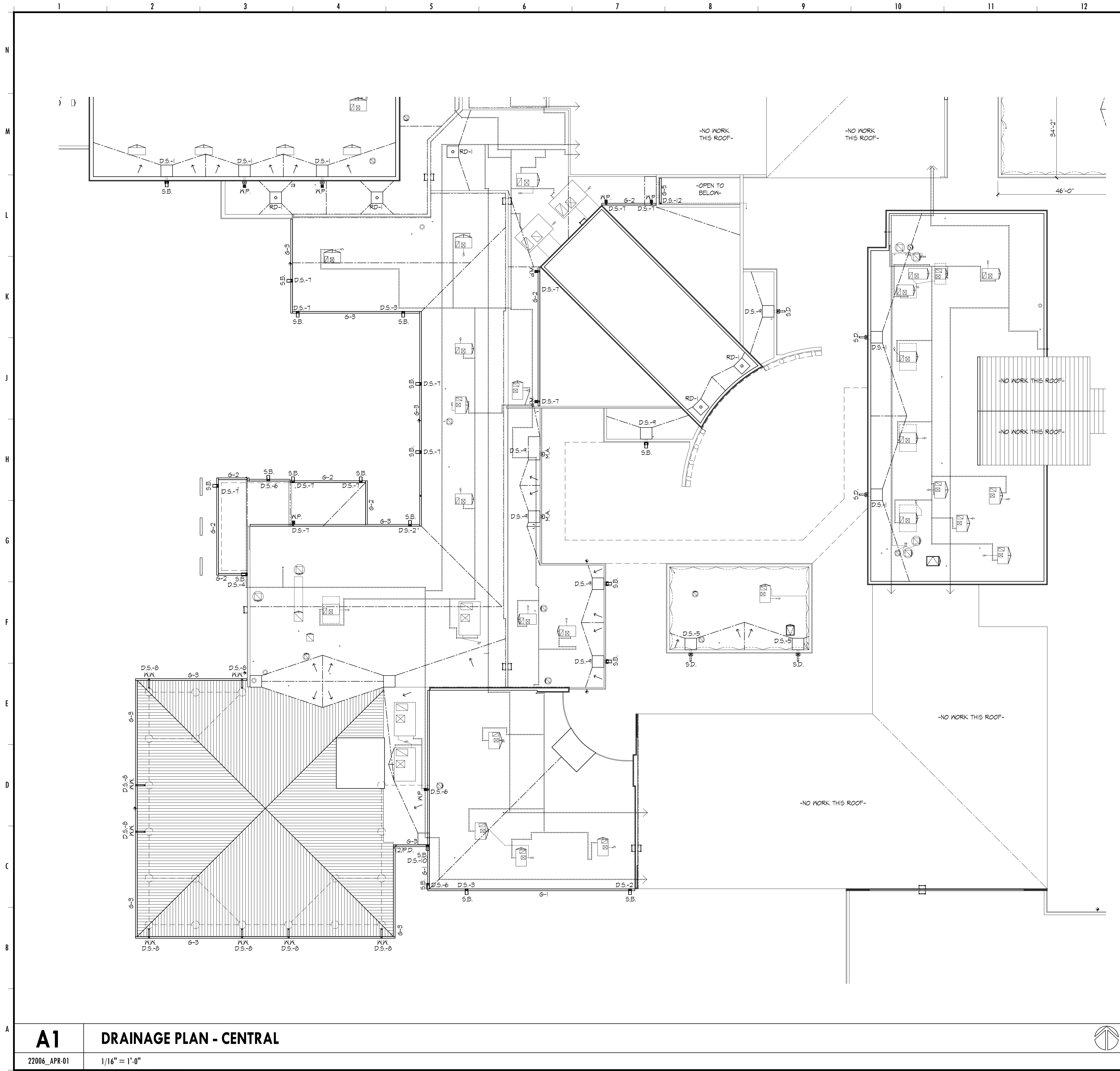
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Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607

7323 Brunswick Rd
 Arlington, Tennessee 38002

DRAINAGE PLAN

Project No. 22009 Date 05.30.24

A2.10



Legend:

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | ROOF DRAIN (R.D.) | | WALKWAY PADS |
| | OVERFLOW DRAIN (O.F.) | | CONDUIT |
| | ROOF EQUIPMENT CURB (w/ CRICKET) | | PIPING |
| | ROOF EXHAUST FAN | | ROOF EXPANSION JOINT |
| | PITCH POCKET (P.P.) | | TAPERED INSULATION RIDGE / VALLEY |
| | ROOF PIPE PENETRATION (V.T.R.) | | TAPERED INSULATION LEVELS |
| | HEAT VENT (FLUE) | | EXISTING STORM DRAIN LINE - APPROX. |
| | ELECTRIC BOX AND CONDUIT DROP | | NEW STORM DRAIN LINE - ASSUMED |
| | ACCESS LADDER | | EXISTING STORM DRAIN CATCH BASIN |
| | ROOF HATCH | | THRU-WALL OVERFLOW (O.F.) |
| | LIGHTING ROD SYSTEM (LR) | | DOWNSPOUT (COLLECTION BOX) (D.S.) |
| | ANTENNA | | DOWNSPOUT (GUTTER) (D.S.) |
| | FIRE ALARM BELL | | SPLASH BLOCK (S.B.) |
| | EXTERIOR LIGHTING | | DRAIN BOOT AND PIPE (S.D.) |
| | SECURITY CAMERA | | PVC PIPE DRAIN (P.D.) |
| | SATELLITE | | HOSE BIB |
| | | | ROOF CORE SAMPLE |
| | | | TURBINE VENT |

Drain Schedule:

- | | |
|---------|-----------------------------------------------------------------------------------------------------------------|
| RD-1 | EXISTING ROOF DRAIN WITH NEW RETRO-DRAIN - FIELD VERIFY DRAIN SIZE. |
| RD-2 | N/A |
| P.D. | EXISTING PIPE DRAIN - REPLACE AND RETROFIT UPPER PORTIONS AND CONCEAL IN NEW SOFFIT |
| G-1 | 7x10 GUTTER |
| G-2 | 7x6 GUTTER |
| G-3 | 7x7 GUTTER |
| G-4 | 4x4 GUTTER |
| G-5 | 5x5 GUTTER |
| D.S.-1 | 6x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER |
| D.S.-2 | 4x6 DOWNSPOUT - CENTER B/W EXP JT AND WINDOW -OR- BLDG CORNER AND WINDOW |
| D.S.-3 | 4x6 DOWNSPOUT - CENTER B/W WINDOW OR BRICK ELEMENTS |
| D.S.-4 | 4x6 DOWNSPOUT - SET ON ADJACENT MALL |
| D.S.-5 | 4x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER |
| D.S.-6 | 4x6 DOWNSPOUT - CENTER ON COLUMN, SECTION OF MALL OR BUILDING FACADE *SEE NOTE 6* |
| D.S.-7 | 4x6 DOWNSPOUT - SET OFF CORNER OF BUILDING OR MASONRY OPENING |
| D.S.-8 | 4x5 DOWNSPOUT - CENTER ON COLUMN |
| D.S.-9 | 4x4 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER |
| D.S.-10 | 6x6 DOWNSPOUT - CENTER OF MALL *SEE NOTE 6* |
| D.S.-11 | 5x7 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER |
| D.S.-12 | 4x4 DOWNSPOUT - SET ON ADJACENT MALL AND RUN HORIZONTAL HIGH ALONG MALL - SPILL TO YARD |
| D.S.-13 | 4x4 DOWNSPOUT - TIE INTO SIDE OF EXISTING 4x6 OLD GYM DOWNSPOUT |
| S.B. | PROVIDE NEW CONCRETE SPLASH BLOCK FOR ON-GROUND DOWNSPOUTS - SEE A4/A3.9. |
| S.D. | PROVIDE REDUCERS AND CONNECTION PIECES TO TIE INTO EXISTING BOOT, TRENCH AND STORM DRAIN SYSTEM - SEE A1/A3.9. |
| W.P. | PROVIDE NEW WALK PAD (SPLASH PAD) FOR ON-ROOF DOWNSPOUTS - E10/A3.1 OR A10/A3.9. |
| M.M. | NEW DRAIN WILL SPILL ONTO EXISTING CONCRETE WALKWAY AS A SPLASH BLOCK WOULD BE IN THE PATH OF TRAVEL - A1/A3.9. |
| M.A. | NEW DRAIN WILL SPILL ONTO EXISTING METAL AWNING. |
- NOTES:**
- BACK-FILL, SOD OR MULCH ALL GROUND AREAS DISTURBED DURING DRAIN INSTALLATION OR BY PREVIOUS WASH-OUT. FILL TO MATCH ELEVATION OF ADJACENT LAND AND ENSURE DRAINAGE AWAY FROM BUILDING. PROTECT, REPLANT OR REPLACE ALL DISTURBED LANDSCAPING.
 - PATCH OLD MOUNTING HOLES IN MASONRY WALL FROM REMOVED D.S. BRACKETS AND SUPPORTS.
 - INSTALL SCREENS AT ALL SCUPPER LOCATIONS AND GUTTERS.
 - TAPER NEW DOWNSPOUTS WHERE NEEDED TO FIT INTO EXISTING CAST IRON BOOTS.
 - SAND, PRIME AND PAINT EXISTING AND NEW CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
 - NEW CAST IRON BOOT TO MATCH EXISTING SHALL BE INSTALLED AT D.S.-10 & D.S.-6 LOCATION B/W "I" CAFE AND BUILDING "3E" - PAINT. SEE DETAIL A14/A3.9.
 - HANGERS AND STRAPS REQUIRED ON ALL GUTTERS.

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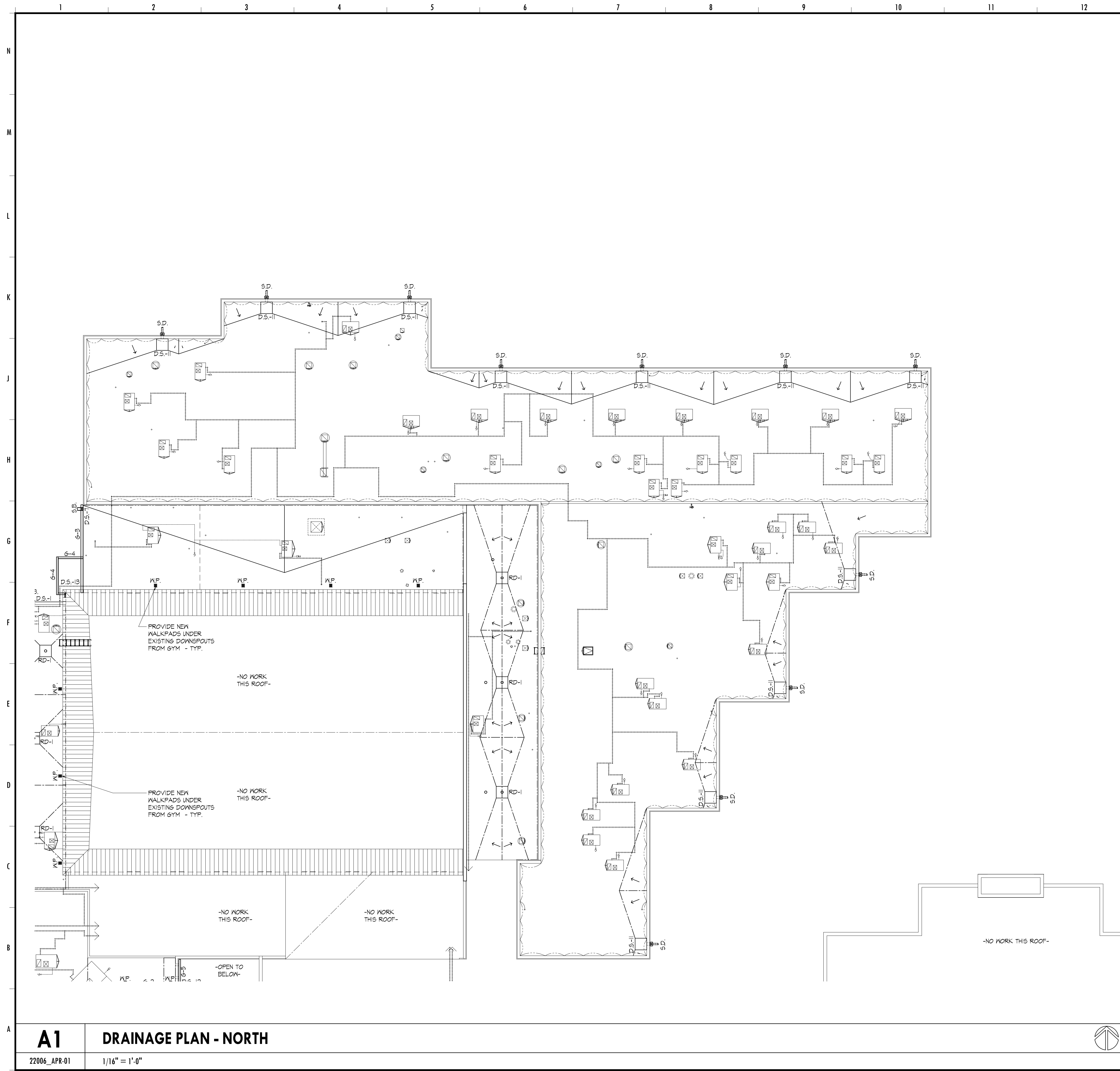


Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Bolton High School
Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607
 7323 Brunswick Rd
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DRAINAGE PLAN
 Project No. 22009 Date 05.30.24



Legend:

- | | | | |
|--|----------------------------------|--|-------------------------------------|
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| | ROOF EQUIPMENT CURB (w/ CRICKET) | | PIPING |
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| | SATELLITE | | HOSE BIB |
| | | | ROOF CORE SAMPLE |
| | | | TURBINE VENT |

Drain Schedule:

- RD-1 EXISTING ROOF DRAIN WITH NEW RETRO-DRAIN - FIELD VERIFY DRAIN SIZE.
- RD-2 N/A
- P.D. EXISTING PIPE DRAIN - REPLACE AND RETROFIT UPPER PORTIONS AND CONCEAL IN NEW SOFFIT

- G-1 1x10 GUTTER
- G-2 1x6 GUTTER
- G-3 1x7 GUTTER
- G-4 4x4 GUTTER
- G-5 5x5 GUTTER

- D.S.-1 6x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
- D.S.-2 4x6 DOWNSPOUT - CENTER B/W EXP JT AND WINDOW -OR- BLDG CORNER AND WINDOW
- D.S.-3 4x6 DOWNSPOUT - CENTER B/W WINDOW OR BRICK ELEMENTS
- D.S.-4 4x6 DOWNSPOUT - SET ON ADJACENT WALL
- D.S.-5 4x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
- D.S.-6 4x6 DOWNSPOUT - CENTER ON COLUMN, SECTION OF WALL OR BUILDING FACADE *SEE NOTE 6*
- D.S.-7 4x6 DOWNSPOUT - SET OFF CORNER OF BUILDING OR MASONRY OPENING
- D.S.-8 4x5 DOWNSPOUT - CENTER ON COLUMN
- D.S.-9 4x4 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
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NOTES:

1. BACK-FILL, SOD OR MULCH ALL GROUND AREAS DISTURBED DURING DRAIN INSTALLATION OR BY PREVIOUS WASH-OUT. FILL TO MATCH ELEVATION OF ADJACENT LAND AND ENSURE DRAINAGE AWAY FROM BUILDING. PROTECT, REPLANT OR REPLACE ALL DISTURBED LANDSCAPING.
2. PATCH OLD MOUNTING HOLES IN MASONRY WALL FROM REMOVED D.S. BRACKETS AND SUPPORTS.
3. INSTALL SCREENS AT ALL SCUPPER LOCATIONS AND GUTTERS.
4. TAPER NEW DOWNSPOUTS WHERE NEEDED TO FIT INTO EXISTING CAST IRON BOOTS.
5. SAND, PRIME AND PAINT EXISTING AND NEW CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
6. NEW CAST IRON BOOT TO MATCH EXISTING SHALL BE INSTALLED AT D.S.-10 & D.S.-6 LOCATION B/W "I" CAFE AND BUILDING "3E" - PAINT. SEE DETAIL A14/A3.9.
7. HANGERS AND STRAPS REQUIRED ON ALL GUTTERS.

A1 DRAINAGE PLAN - NORTH

22006_APR-01 1/16" = 1'-0"

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Revisions

NO.	DATE	DESCRIPTION
01	12.20.23	Schematic Design
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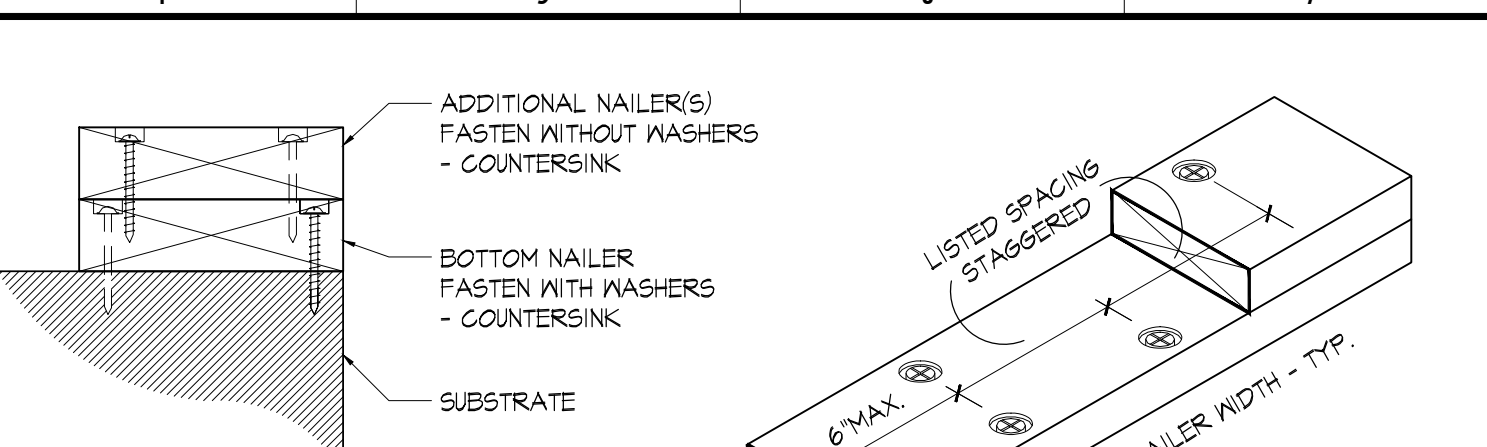
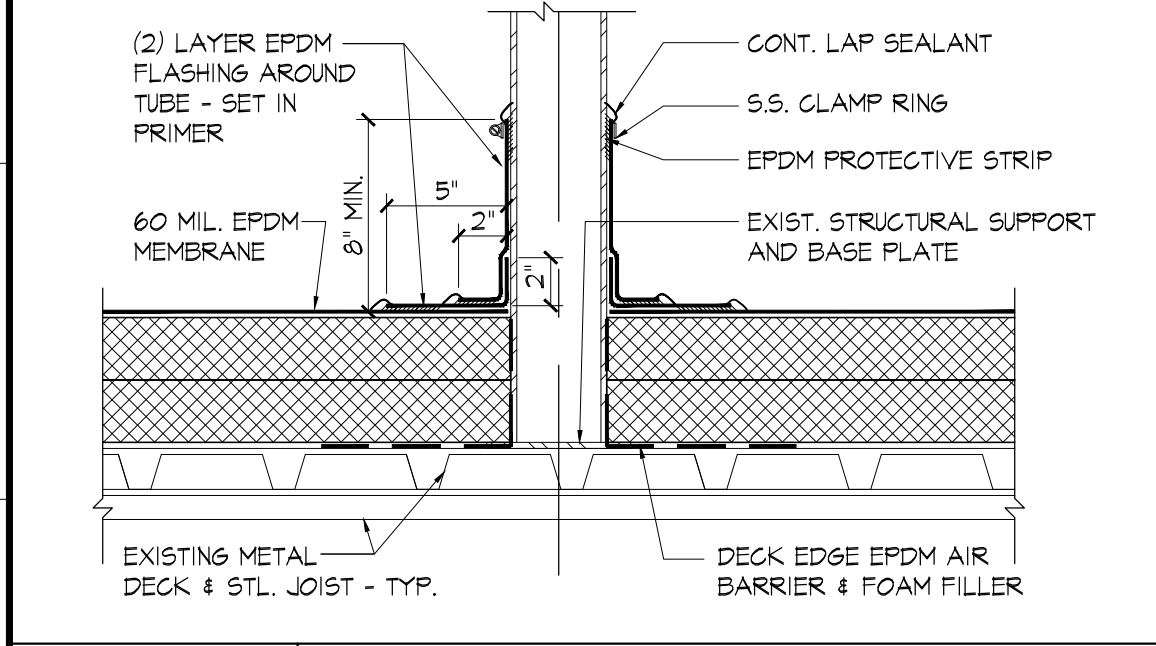
DRAINAGE PLAN
 Project No. 22009 Date 05.30.24

ROOF DETAIL GENERAL NOTE:

- CAMPUS WAS NOT ABLE TO PROVIDE DRAWINGS SHOWING EXISTING CONDITIONS FOR STRUCTURE AND WALL CONSTRUCTION. A BEST EFFORT WAS MADE TO DRAW THESE HIDDEN CONDITIONS. DETAILS SHOWN INTENT. ACTUAL CONDITIONS WILL BE WORKED OUT IN THE FIELD TO OBTAIN A WARRANTY FROM ROOFING MANUFACTURER.
- DETAILS SHOW TYPICAL ROOFING SYSTEMS INSTALLATION. REFER TO ROOF SPECIFIC DEMOLITION AND SCOPING NOTES FOR CHANGES DUE TO DECKING TYPE, FASTENING REQUIREMENTS, BASE SHEETS, INSULATION TYPE, ETC.
- MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
- PARAPET WIDTHS AND HEIGHTS VARY AT EACH LOCATION - FIELD VERIFY EACH CONDITION.
- REFER TO EDGE DETAILS FOR EACH BLDG. FOR TYPICAL ROOFING SYSTEM NOTES, AS DECKING TYPE, INSULATION THICKNESS AND LAYERS WILL VARY PER BUILDING.

NOTE:

- LARGE ROUND SECTIONS & ALL SQUARE TUBULAR SECTIONS REQ. A TWO OR MORE PIECE CLAMP.
- REFER TO SCOPING NOTES FOR EACH BLDG. FOR TYPICAL ROOFING SYSTEM NOTES, AS DECKING TYPE, INSULATION THICKNESS AND LAYERS WILL VARY PER BUILDING.



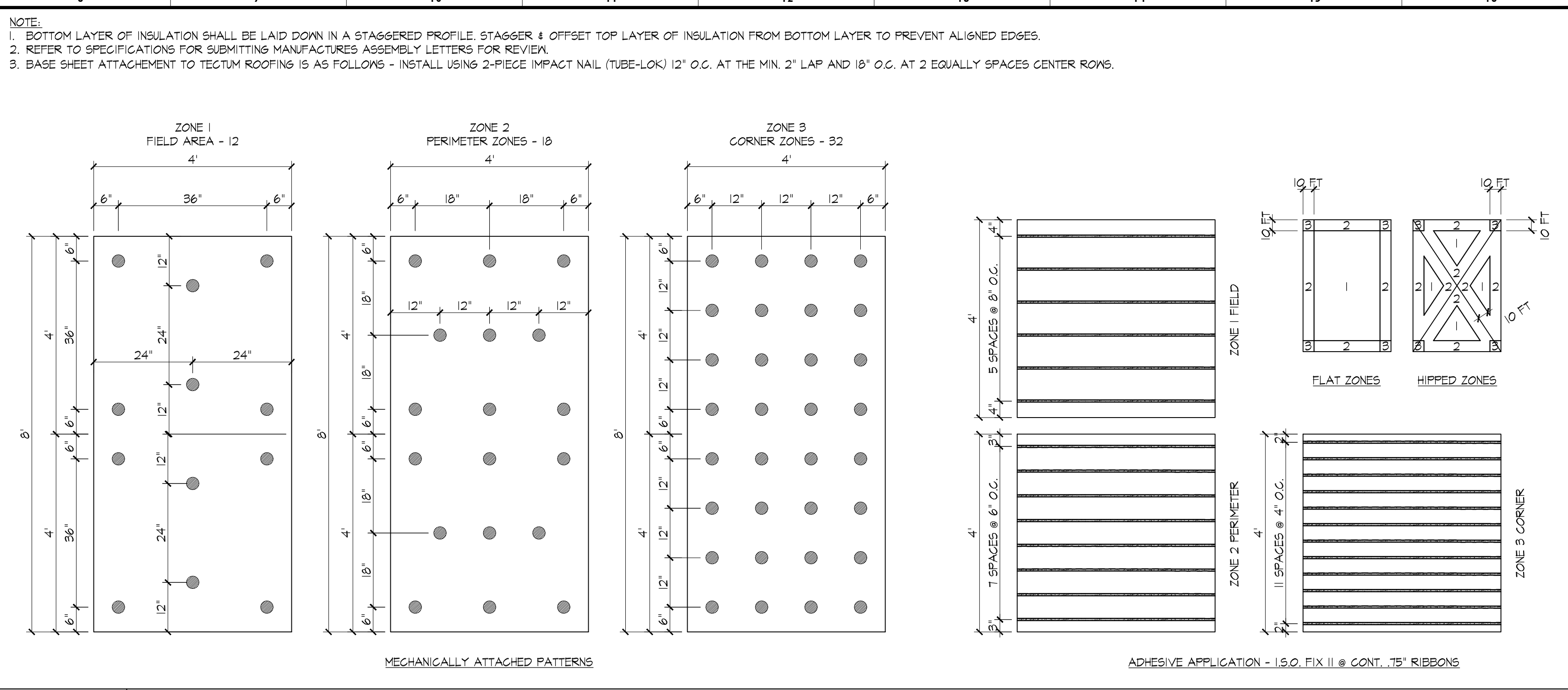
NOTE:

ALL PERIMETER NAILERS, NEW OR EXISTING SHALL BE FASTENED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE (UNLESS NOTED OTHERWISE ON DETAIL DRAWINGS)

ATTACHMENT SUBSTRATE	PERIMETER FASTENER SPACING (MAXIMUM)	CORNER FASTENER SPACING (MAXIMUM)
STRUCTURAL CONCRETE	12" O.C.	6" O.C.
CMU / BRICK (FASTENER INTO SOLID MATERIAL)	12" O.C.	6" O.C.
STEEL DECK	12" O.C.	6" O.C.
WOOD	12" O.C.	6" O.C.

NOTE:

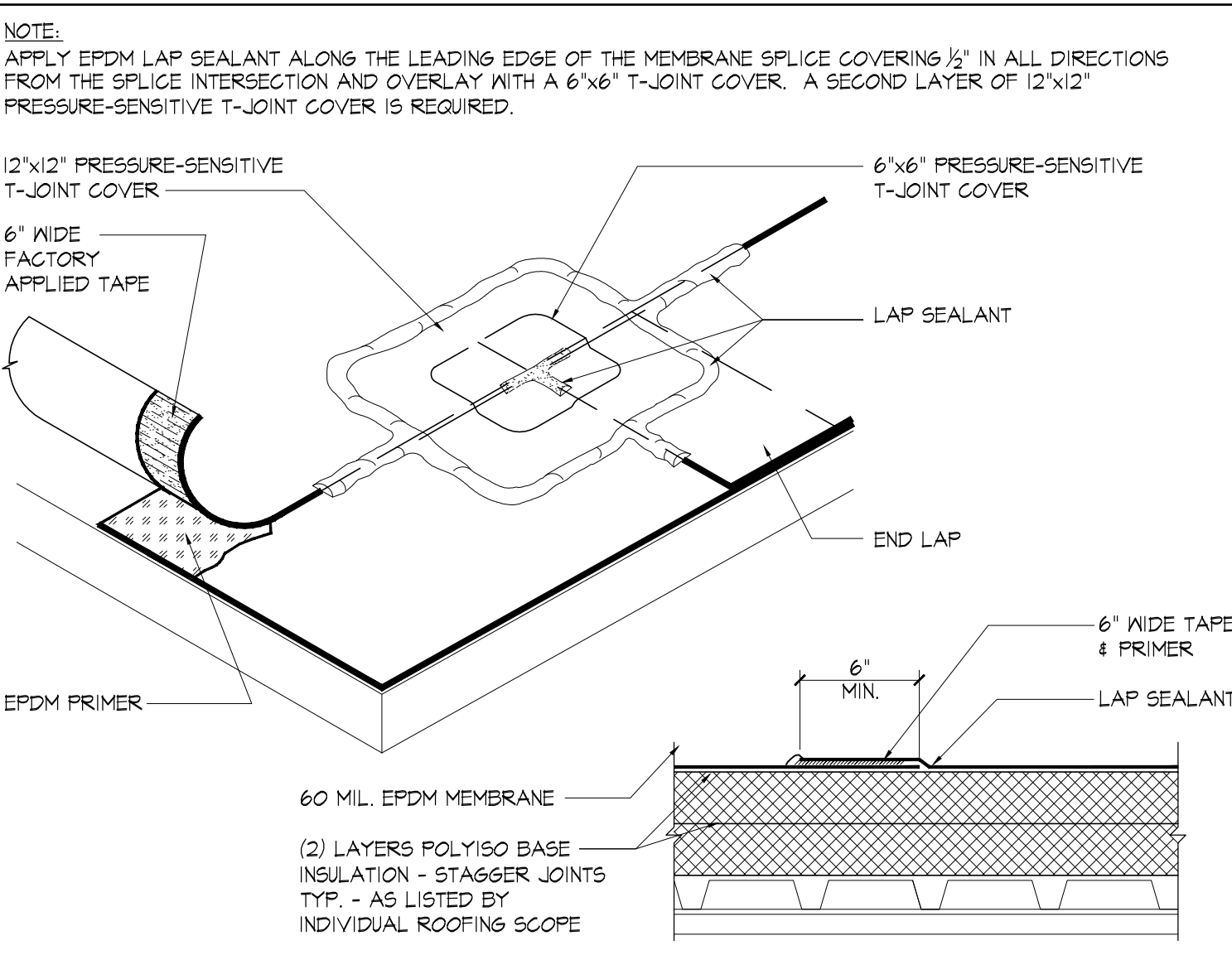
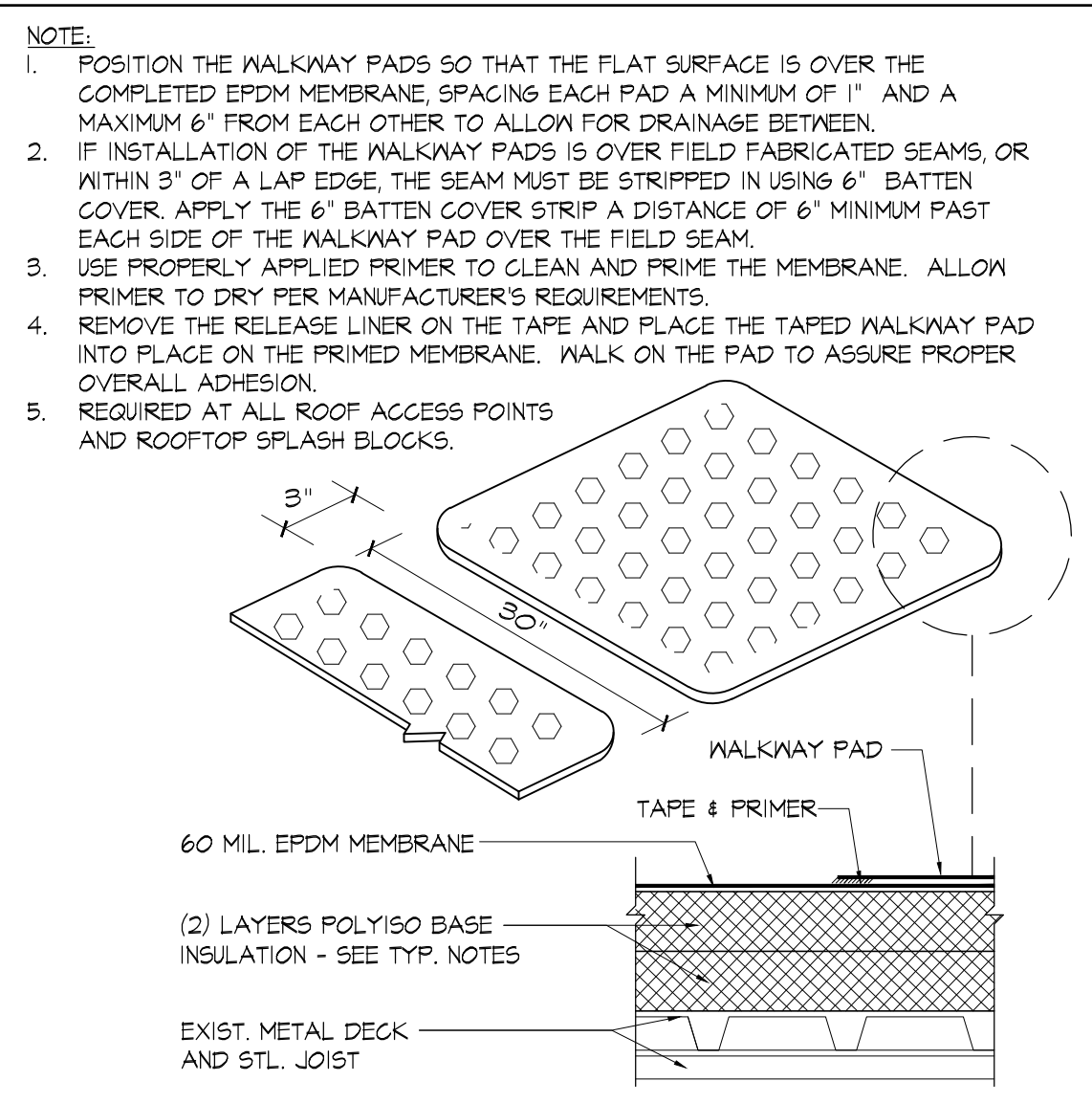
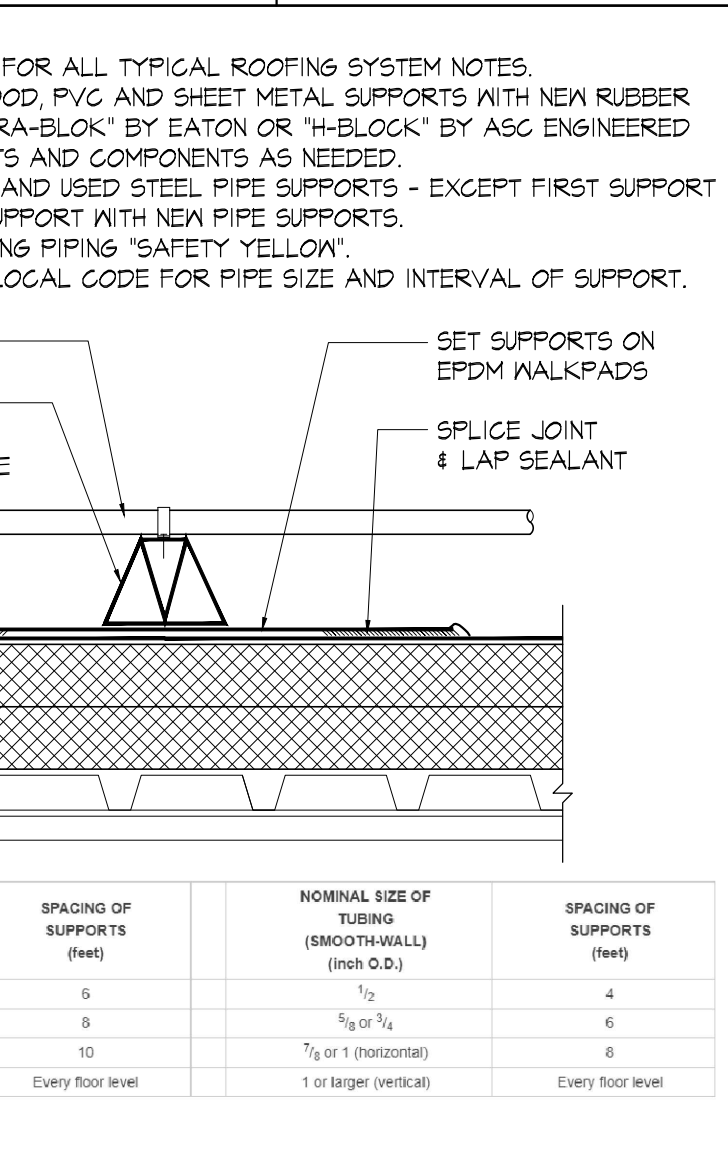
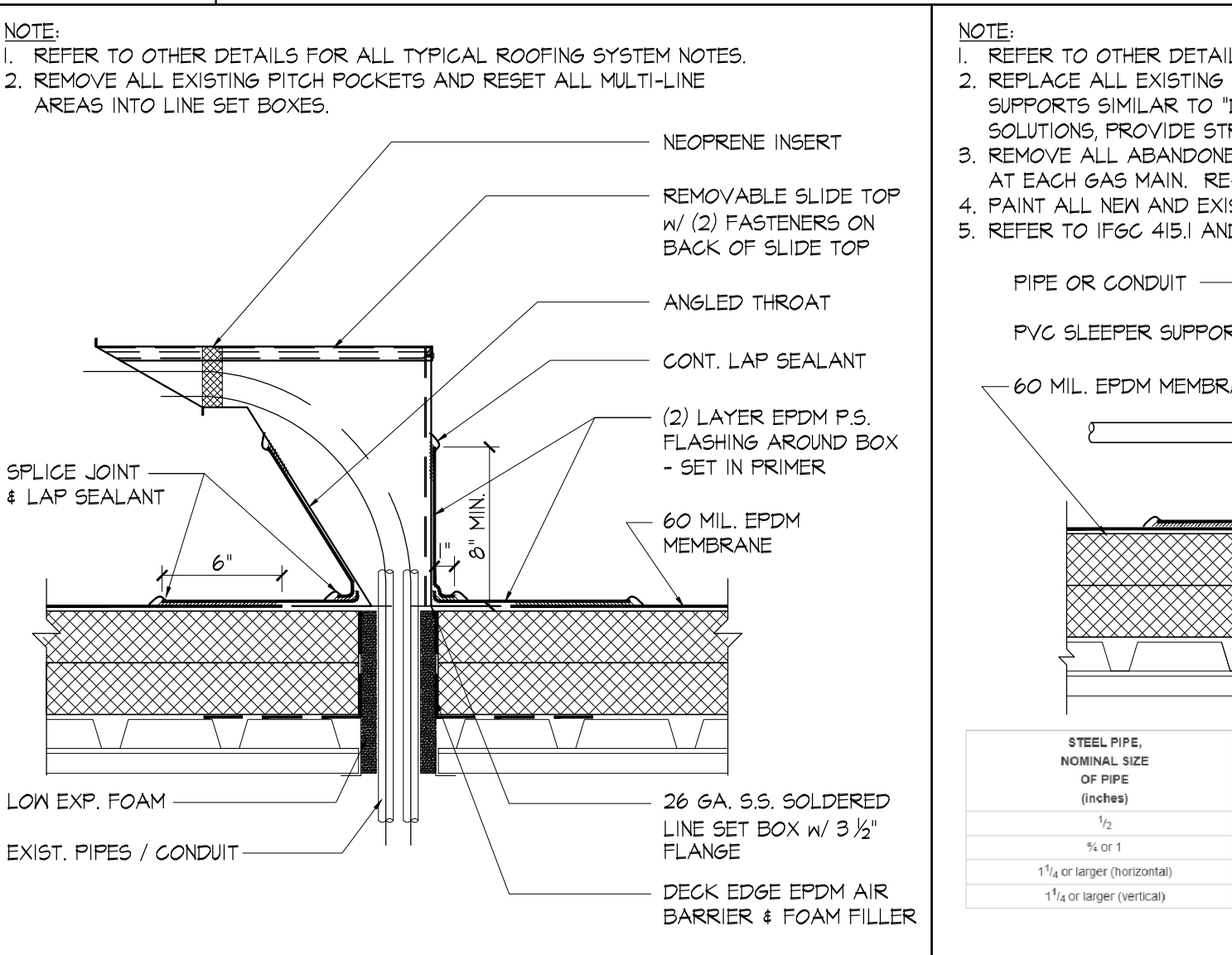
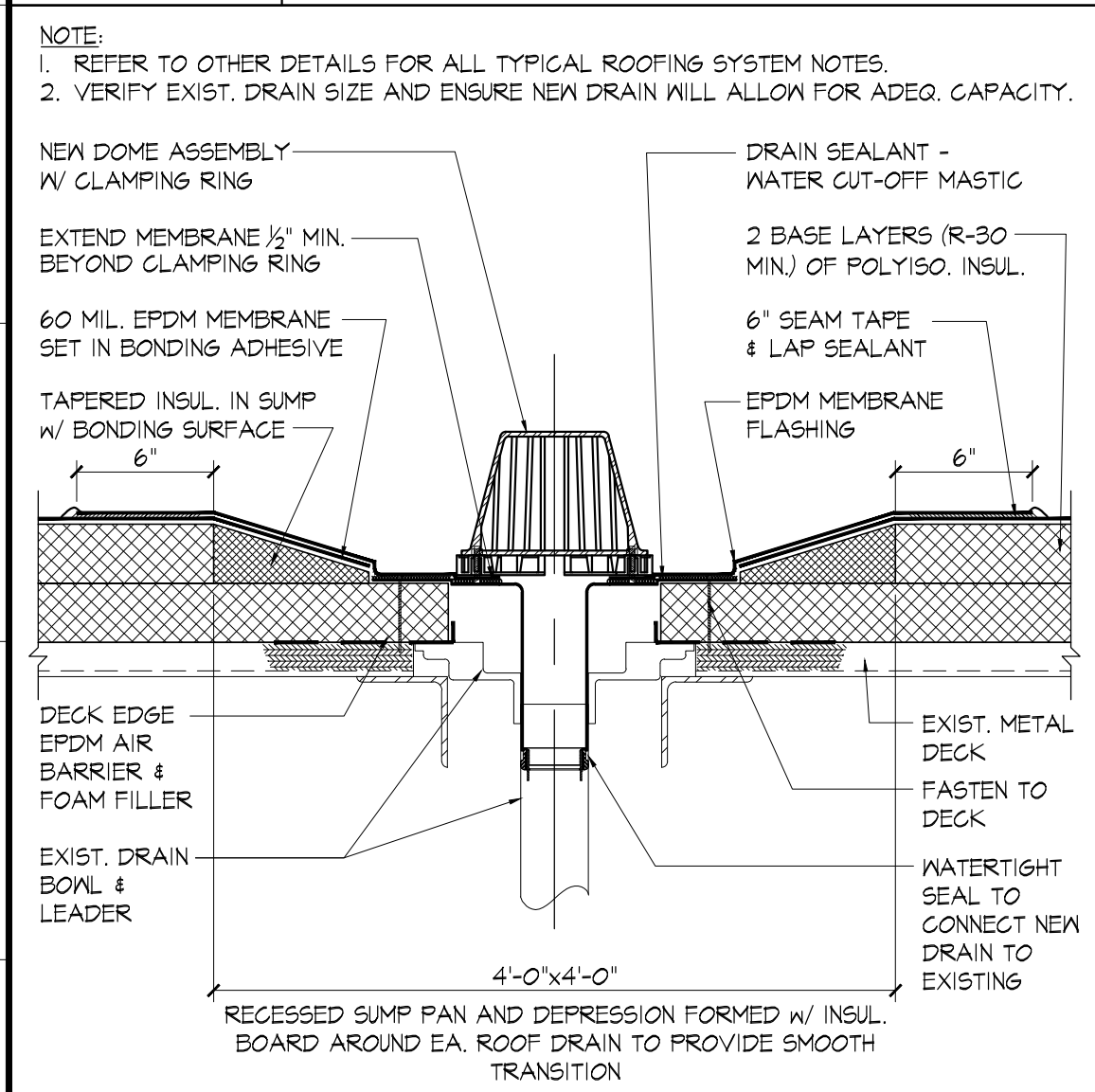
- FASTENERS IN 6" OR WIDER (NOM.) LUMBER SHALL BE INSTALLED IN TWO (2) ROWS, STAGGERED 1/3 OF NAILER WIDTH.
- TWO (2) FASTENERS SHALL BE INSTALLED WITHIN 6" OF EACH NAILER END.
- CORNER FASTENER SPACING SHALL EXTEND 8" FROM ALL OUTSIDE BUILDING CORNERS.
- WHERE TWO OR MORE NAILERS ARE INSTALLED, EACH NAILER SHALL BE FASTENED INDEPENDENTLY.
- OVER ALL DECK TYPES, THE BOTTOM NAILER SHALL BE FASTENED USING THE SPECIFIED FASTENERS AND 5/8" DIAMETER WASHERS, COUNTERSINK WASHERS AND FASTENERS LEVEL WITH TOP OF WOOD USING SPADE BIT OR SIMILAR METHOD. FASTEN SUBSEQUENT NAILERS, WHERE SPECIFIED, USING THE SPECIFIED SCREWS WITHOUT WASHERS.
- FASTENER TYPES ARE DETERMINED BY SUBSTRATE MATERIALS AND SECTION 06 10 00.
- NAILERS SHALL BE INSTALLED WITH 1/4" GAP BETWEEN ENDS OF ADJOINING PIECES.
- FASTENERS, INCLUDING NUTS AND WASHERS, FOR FIRE-RETARDANT-TREATED WOOD USED IN EXTERIOR APPLICATIONS OR WET/DAMP LOCATIONS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS PER ASTM B 645, CLASS 55 MIN. REFER TO SECTION 06 10 00 FOR ADDITIONAL REQUIREMENTS.



J1 VERTICAL FLASHING TERMINATION

J4 NAILER ATTACHMENT SCHEDULE

J8 INSULATION ATTACHMENT PATTERNS



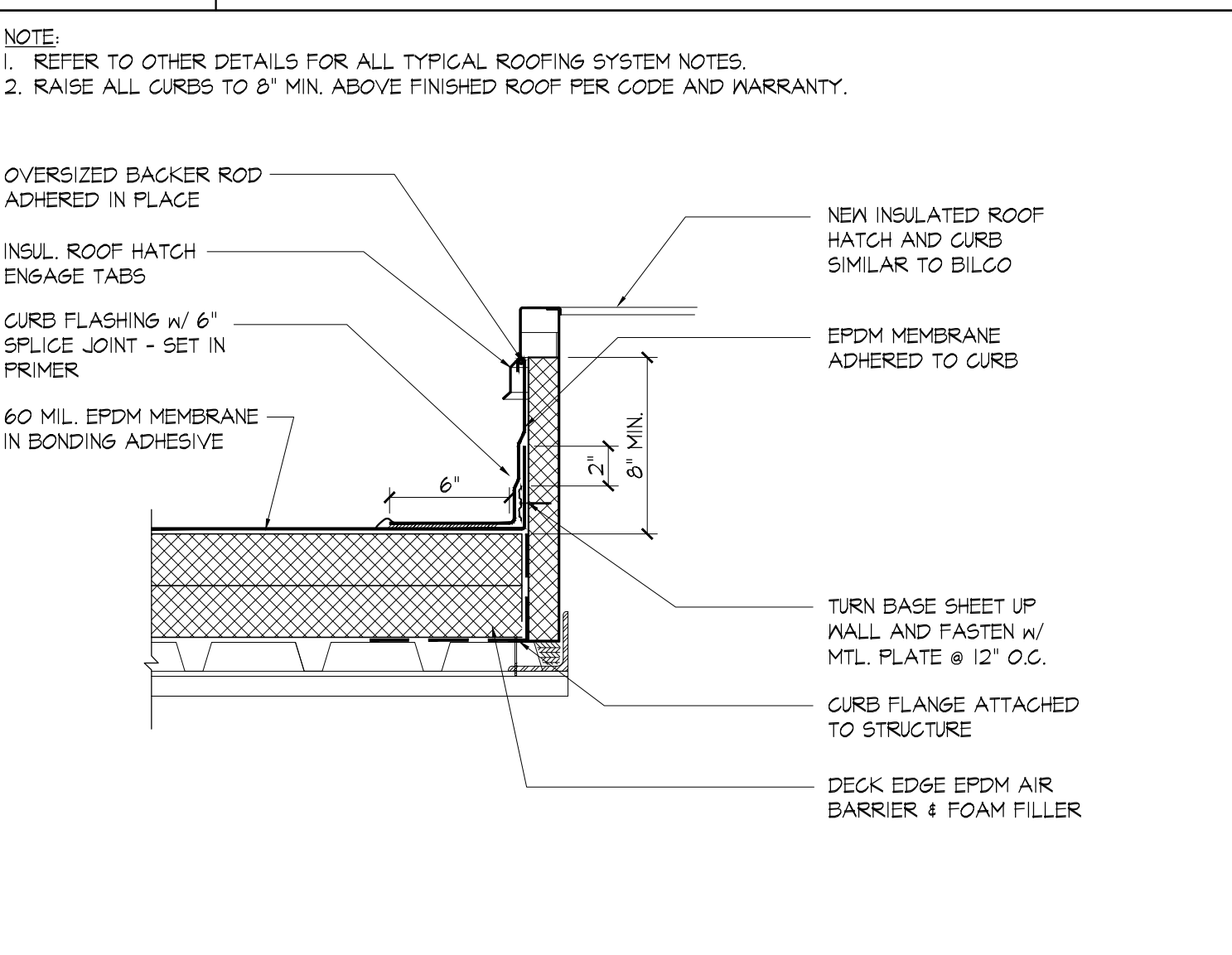
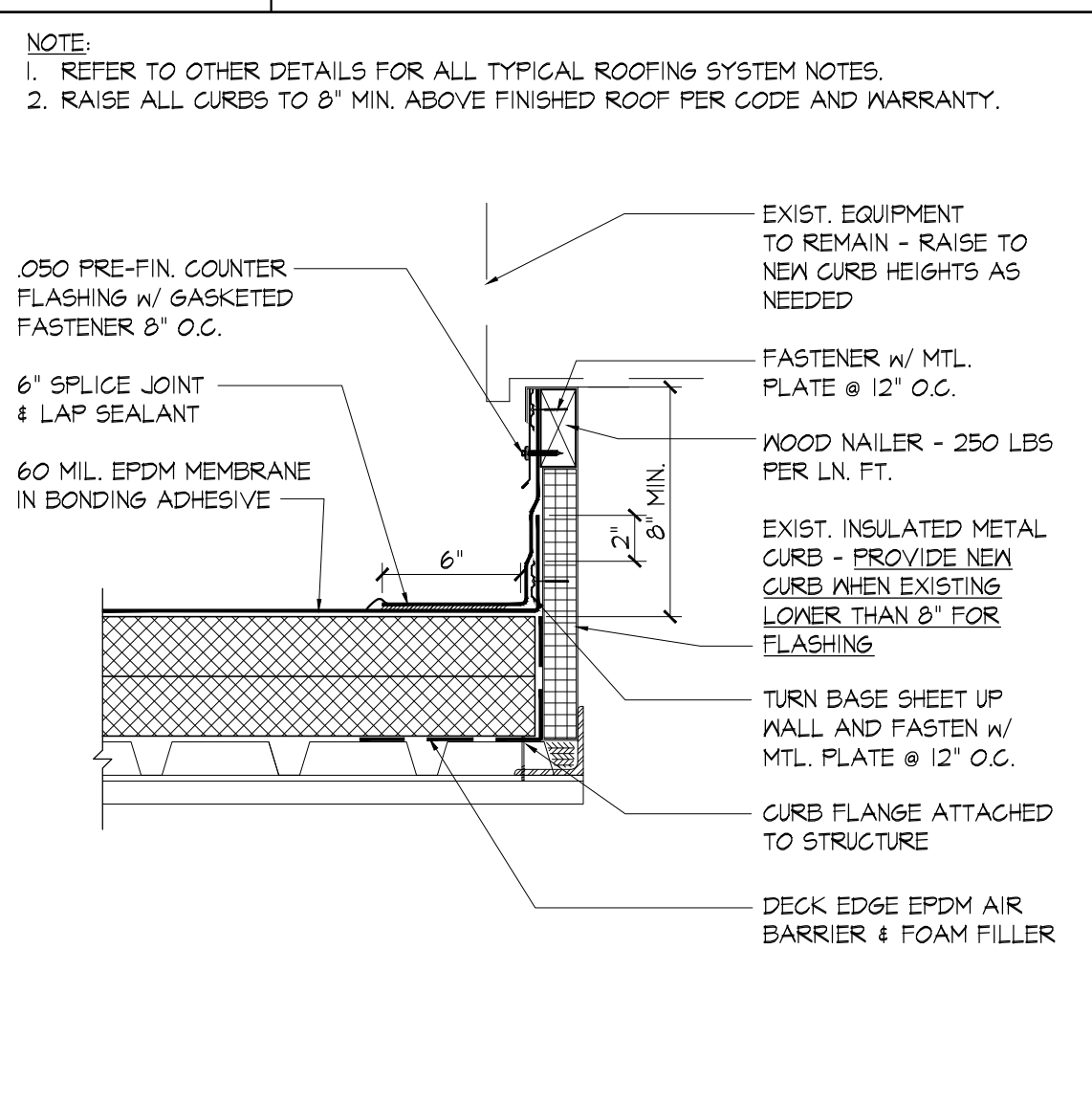
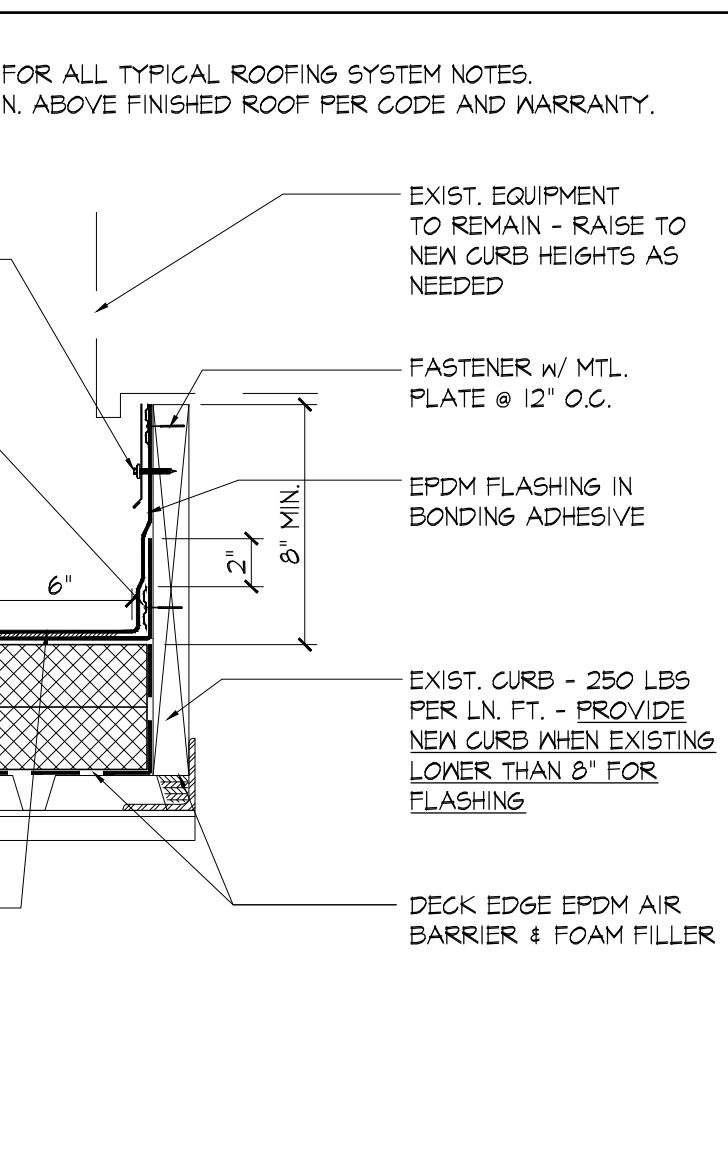
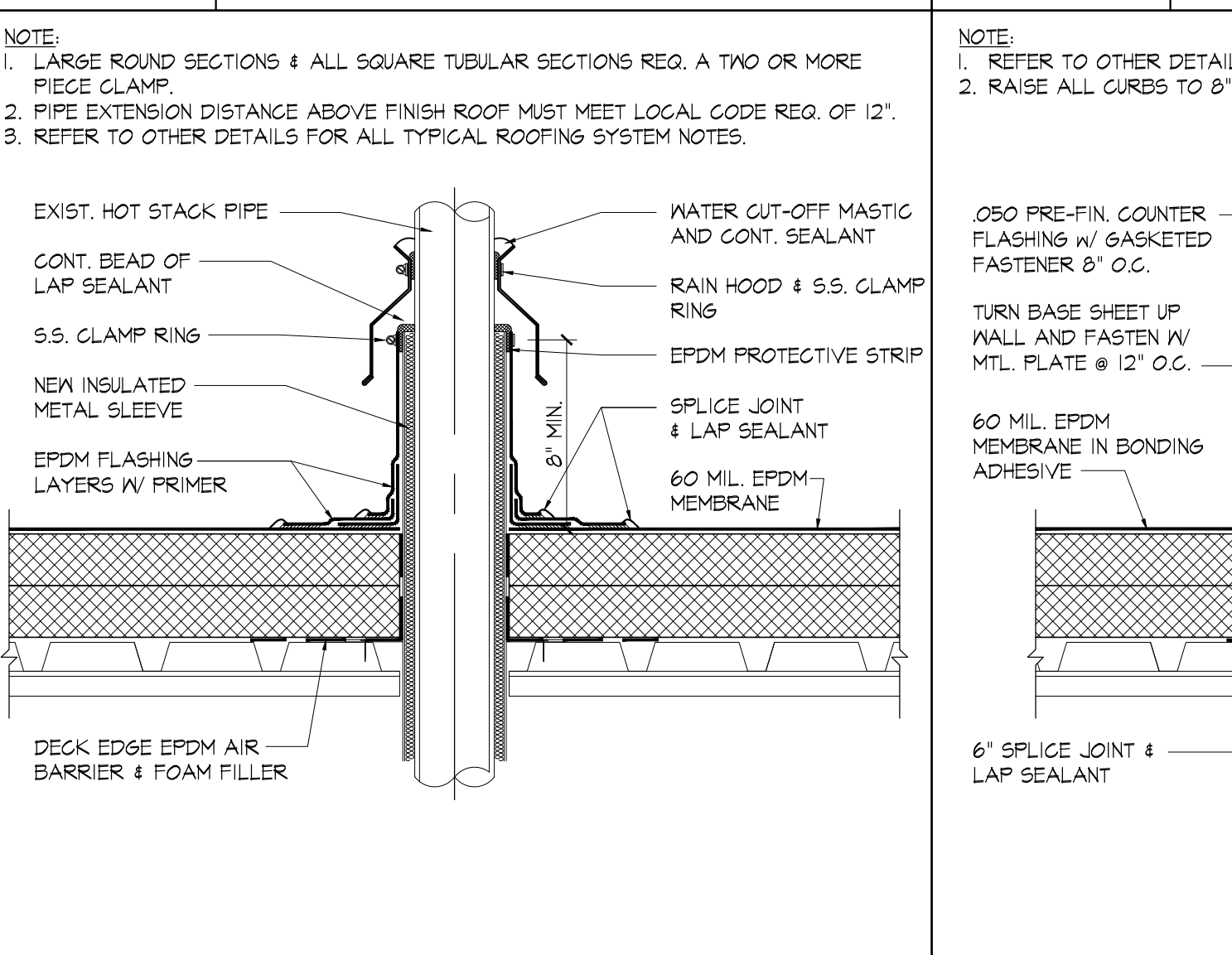
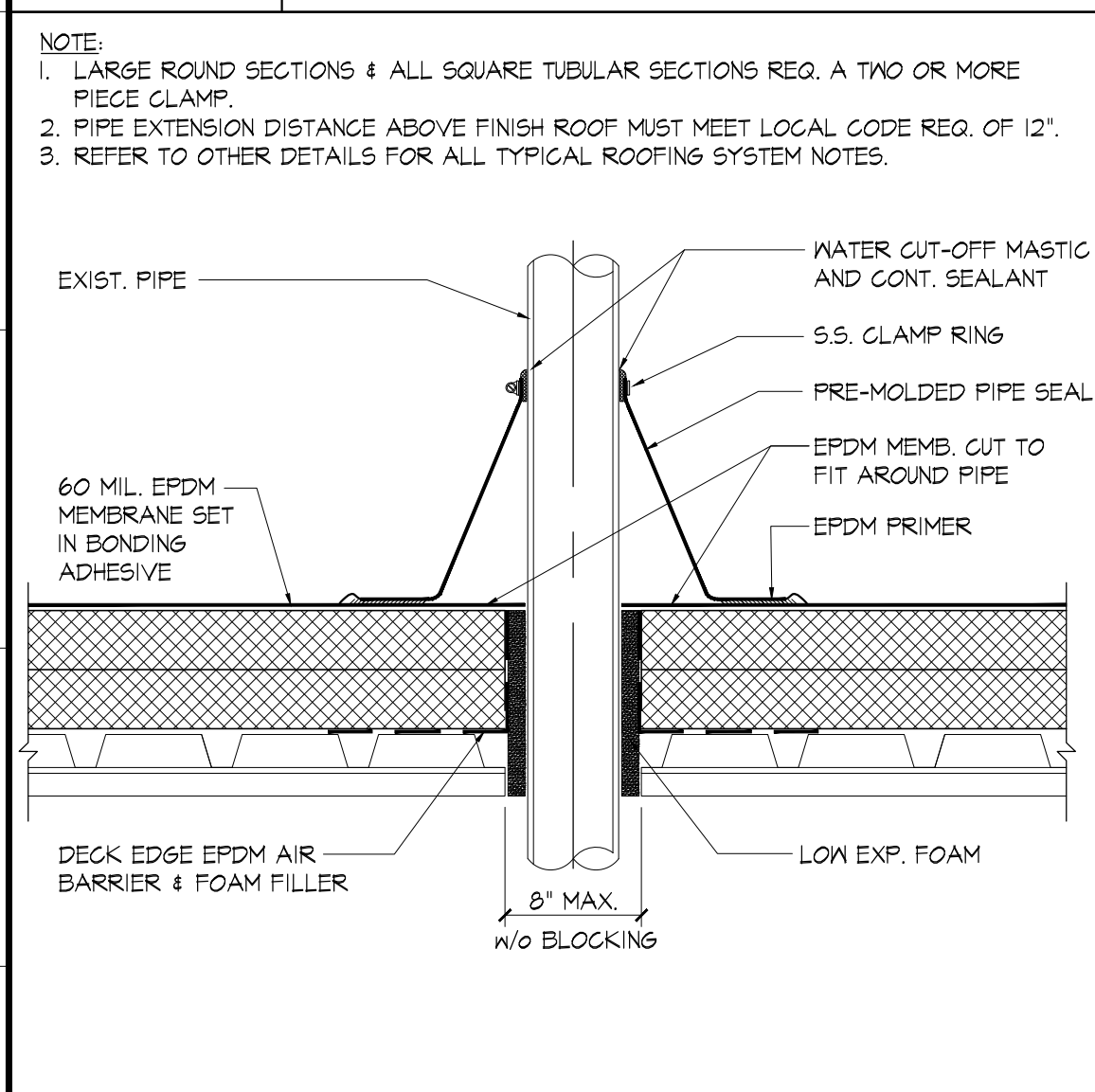
E1 ROOF RETRO-DRAIN DETAIL

E4 LINE SET BOX

E7 PIPE SUPPORT DETAIL

E10 PADS AND WALKWAY DETAILS

E13 TYPICAL COVERS @ MEMBRANE T-LAPS



A1 VENT PIPE FLASHING DETAIL

A4 FLUE DETAIL

A7 WOOD CURB DETAIL

A10 INSULATED CURB DETAIL

A13 ROOF HATCH CURB

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Issues and Revisions

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01	12.20.23	Schematic Design
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Project Name
Bolton High School

Roof Replacement Package 2

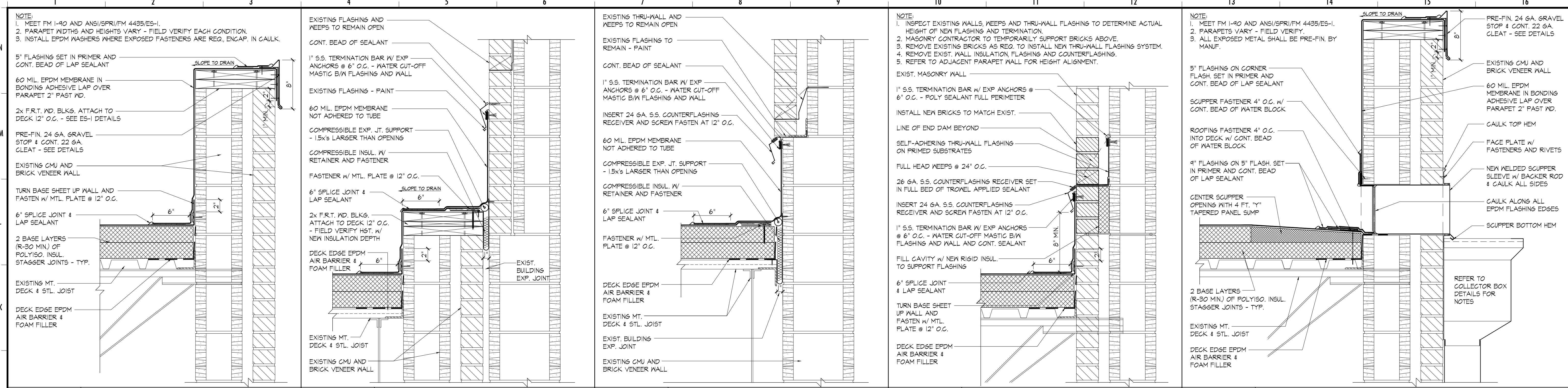
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ROOF DETAILS

Project No. 22009 Date 05.30.24

A3.1



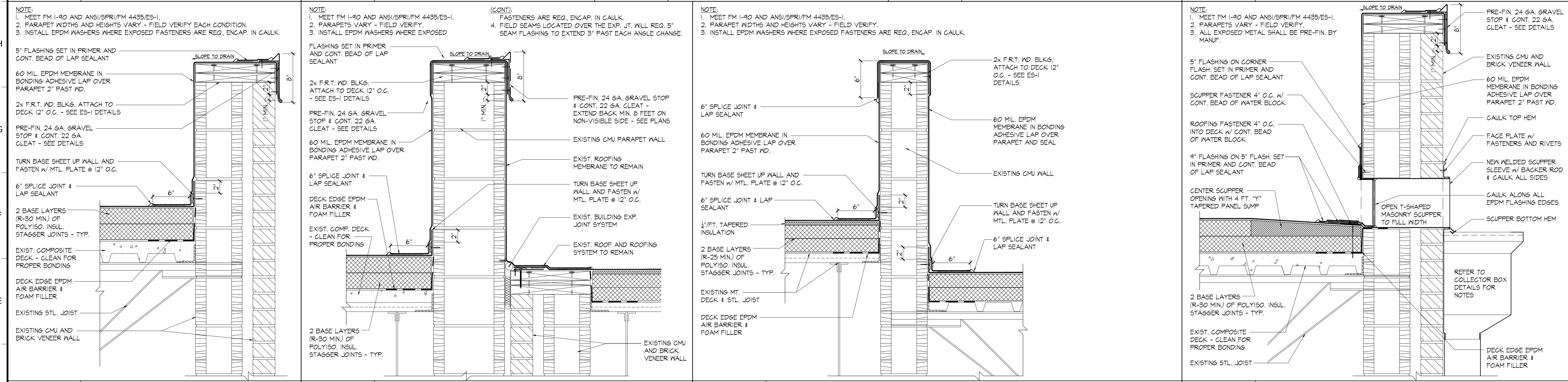
J1 PARAPET DETAIL
22009-DETAILS 1 1/2" = 1'-0"

J4 5A WALL @ EXP. JOINT
22009-DETAILS 1 1/2" = 1'-0"

J7 5A WALL @ EXP. JOINT
22009-DETAILS 1 1/2" = 1'-0"

J10 THRU-WALL DETAIL
22009-DETAILS 1 1/2" = 1'-0"

J13 PARAPET @ SCUPPER
22009-DETAILS 1 1/2" = 1'-0"

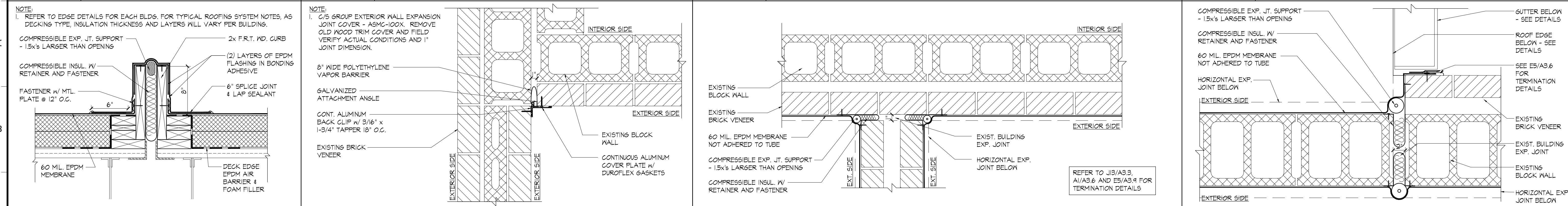


E1 PARAPET DETAIL @ COMP DECK
22009-DETAILS 1 1/2" = 1'-0"

E4 3D PARAPET @ EXISTING EXP. JOINT
22009-DETAILS 1 1/2" = 1'-0"

E8 ROOF 4 SUPPORT WALL PARAPET
22009-DETAILS 1 1/2" = 1'-0"

E13 PARAPET @ SCUPPER
22009-DETAILS 1 1/2" = 1'-0"



A1 ROOF EXPANSION JOINT
22009-DETAILS 1 1/2" = 1'-0"

A4 WALL EXPANSION JOINT COVER
22009-DETAILS 1 1/2" = 1'-0"

A8 VERTICAL EXPANSION JOINT
22009-DETAILS 1 1/2" = 1'-0"

A13 VERTICAL EXPANSION JOINT @ 4-HR FIREWALL
22009-DETAILS 1 1/2" = 1'-0"

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5/30/24

W. R. GROSS REGISTERED ARCHITECT
 STATE OF TENNESSEE
 05-30-24

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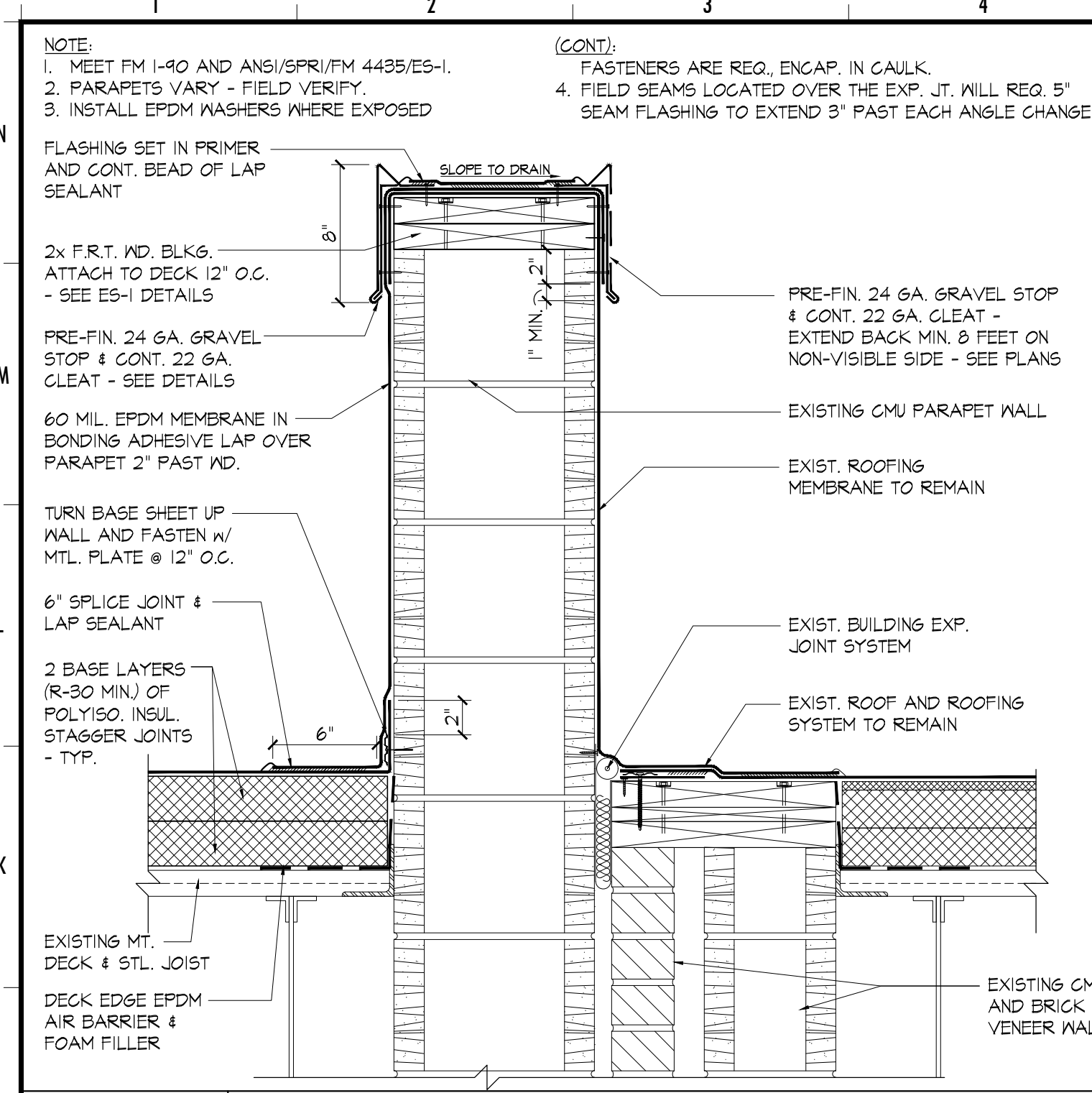
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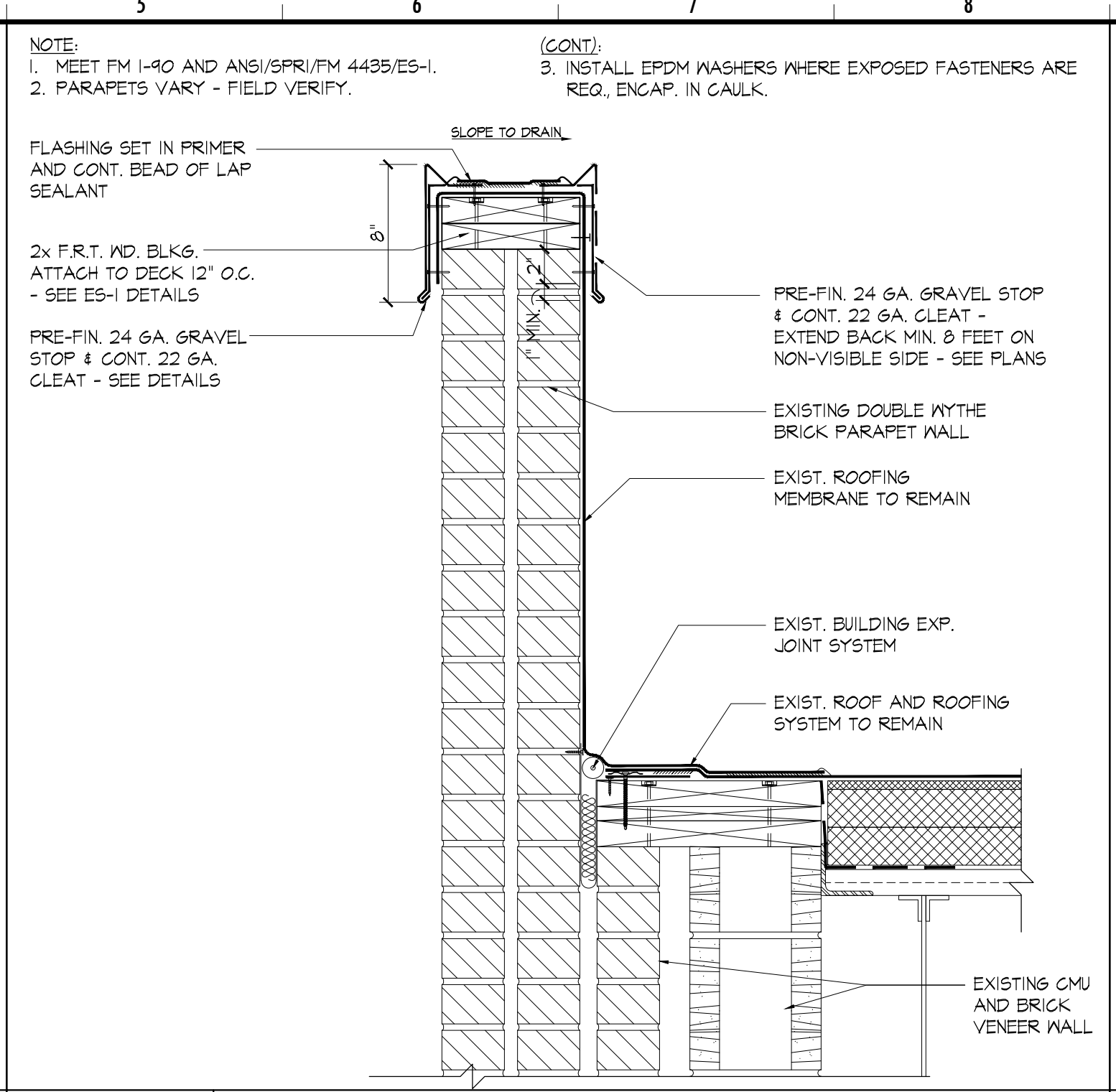
Project Name
ROOF DETAILS

Project No. 22009 Date 05.30.24

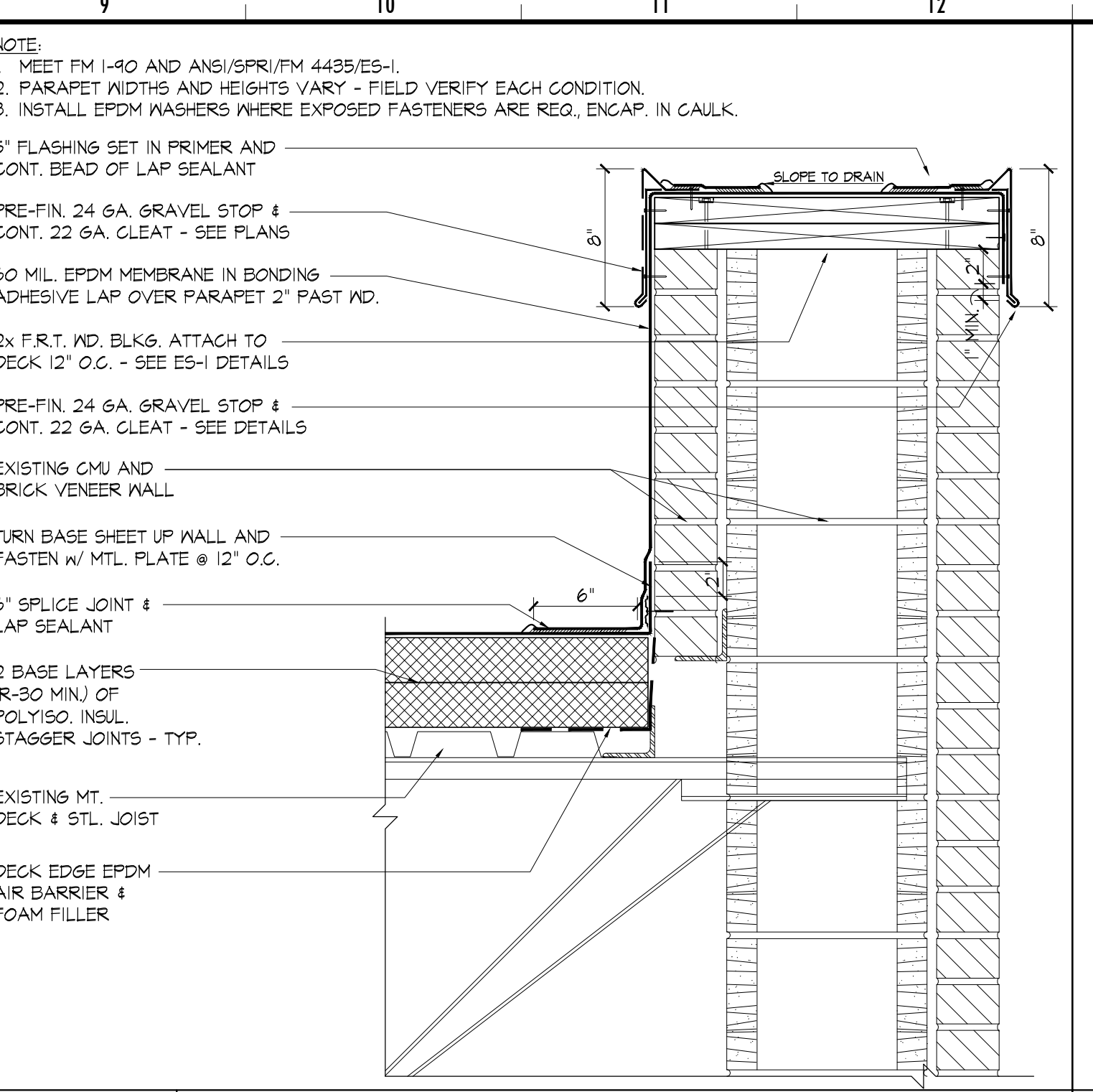
A3.2



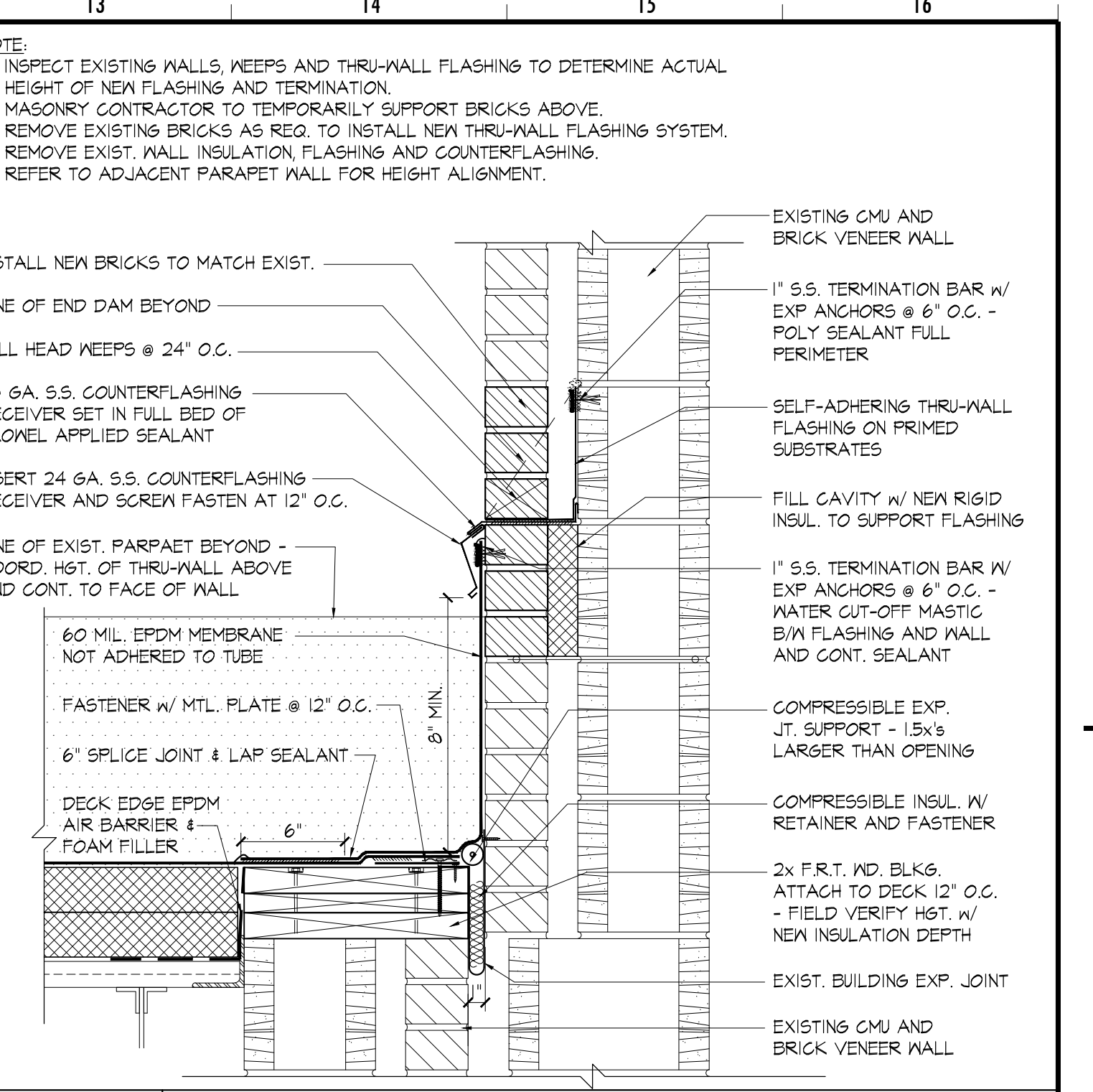
J1 3E PARAPET @ EXISTING EXP. JOINT - 4-HR
22009-DETAILS 1 1/2" = 1'-0"



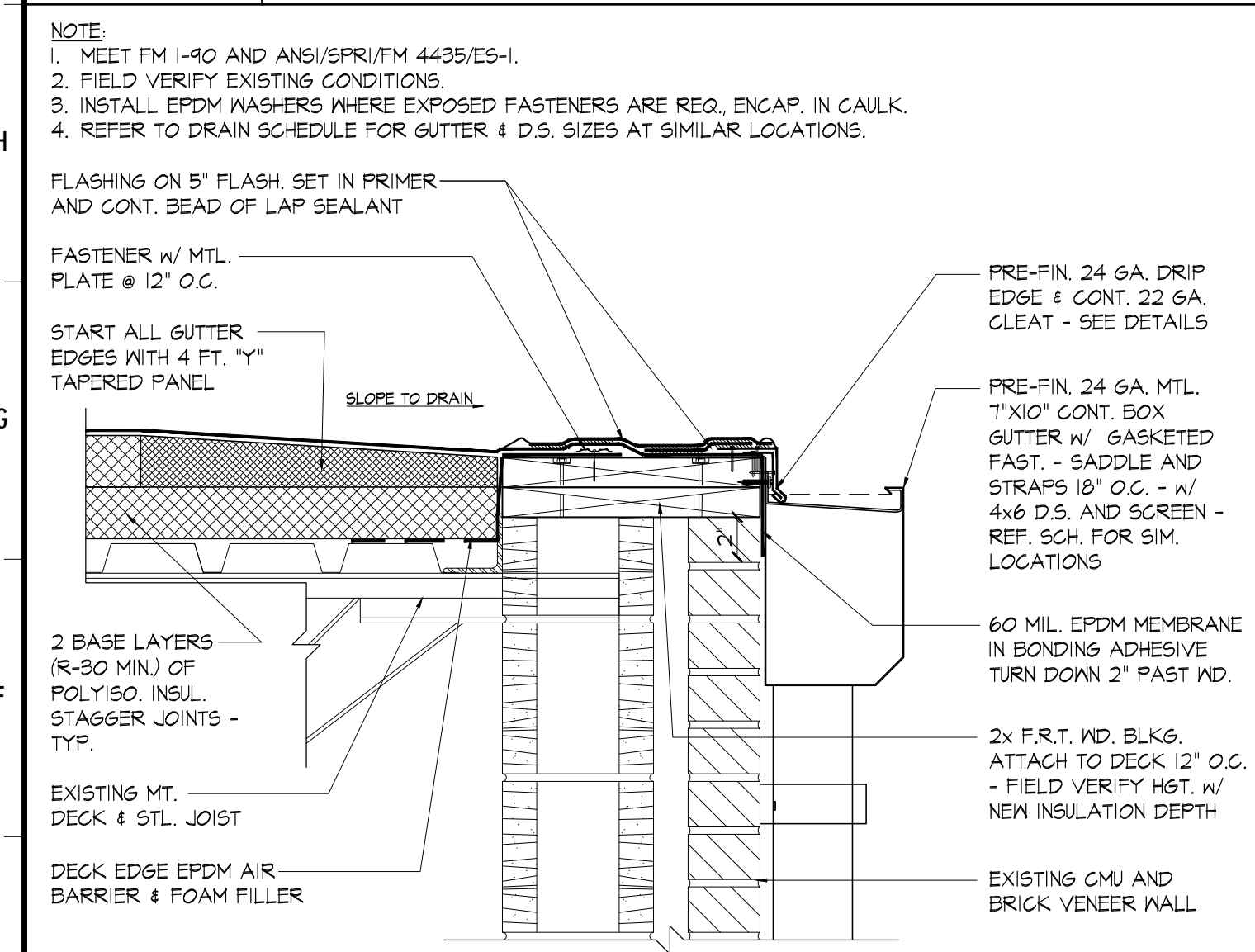
J5 3E PARAPET @ EXISTING EXP. JOINT
22009-DETAILS 1 1/2" = 1'-0"



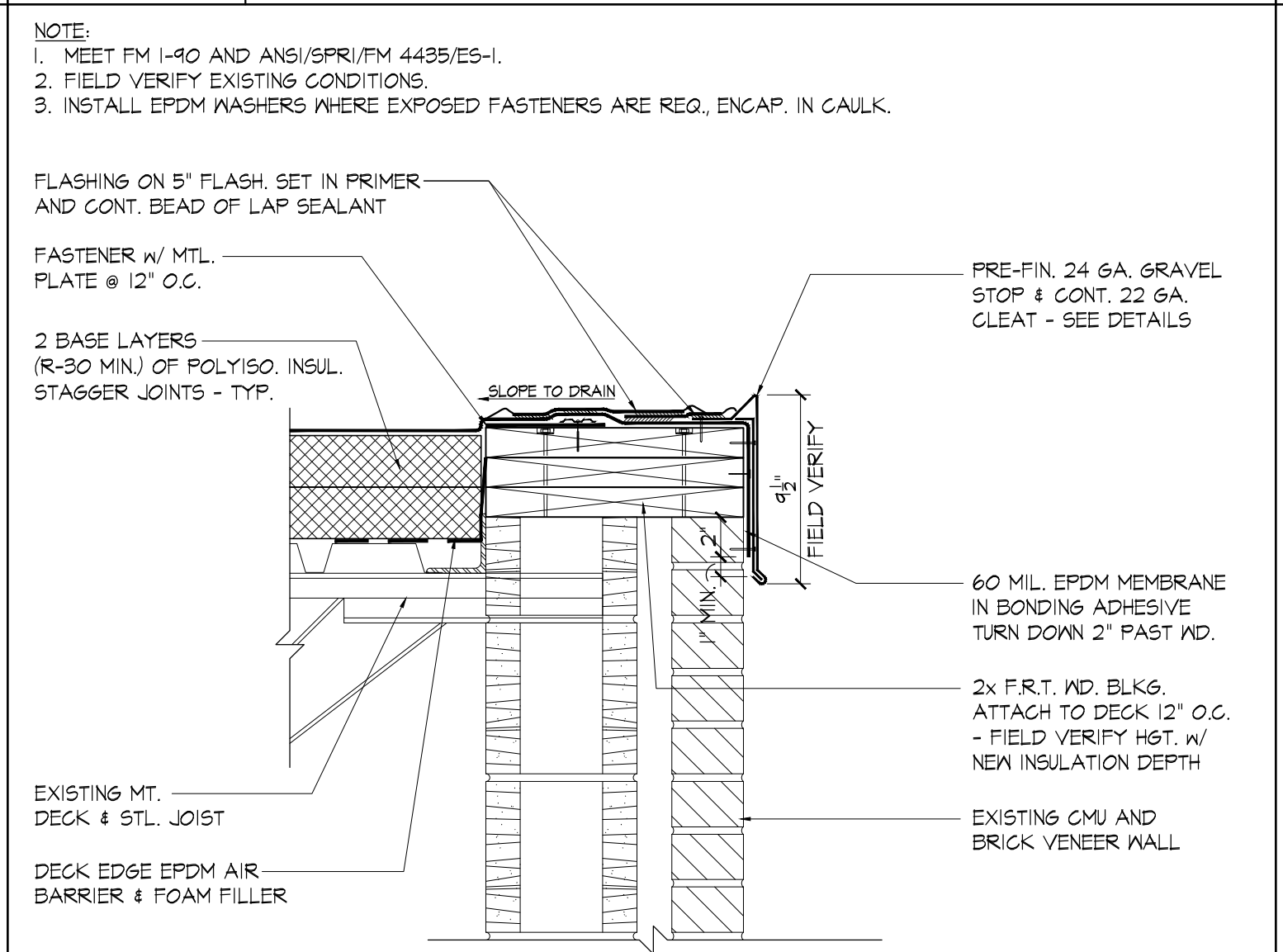
J9 3E PARAPET @ EXISTING 4-HR FIREWALL
22009-DETAILS 1 1/2" = 1'-0"



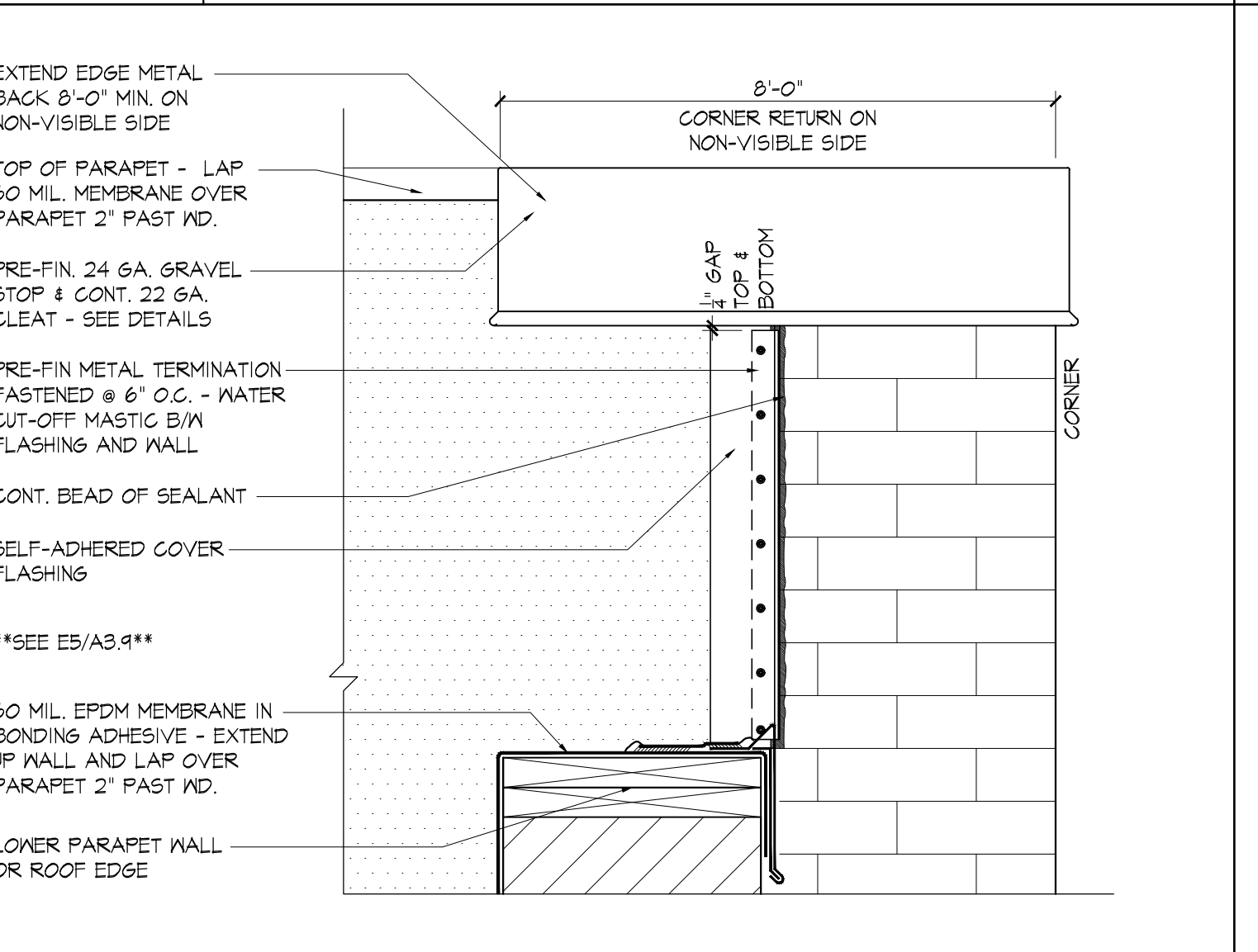
J13 ROOF 8D @ EXISTING EXP. JOINT - 4-HR
22009-DETAILS 1 1/2" = 1'-0"



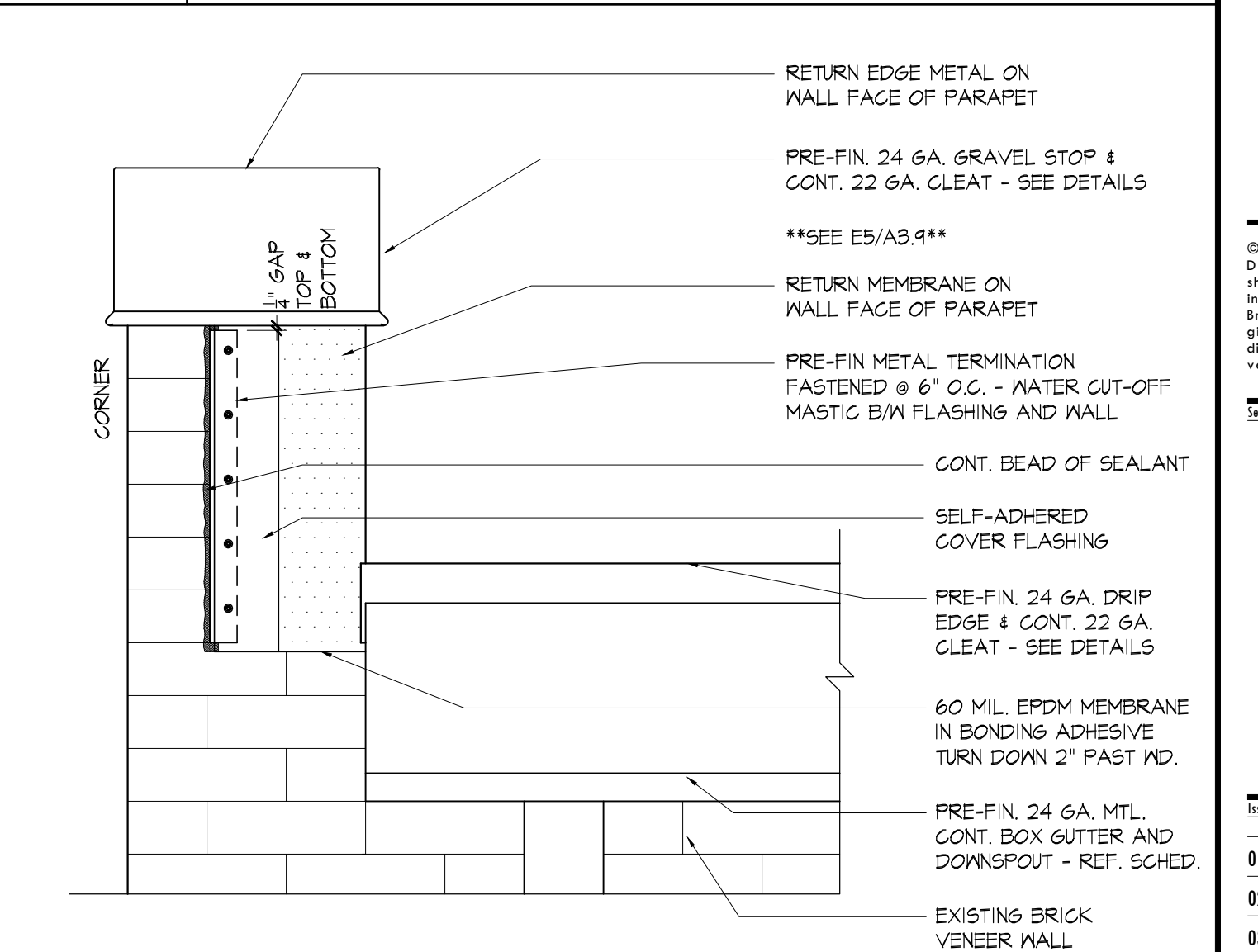
E1 3E ROOF EDGE @ GUTTER
22009-DETAILS 1 1/2" = 1'-0"



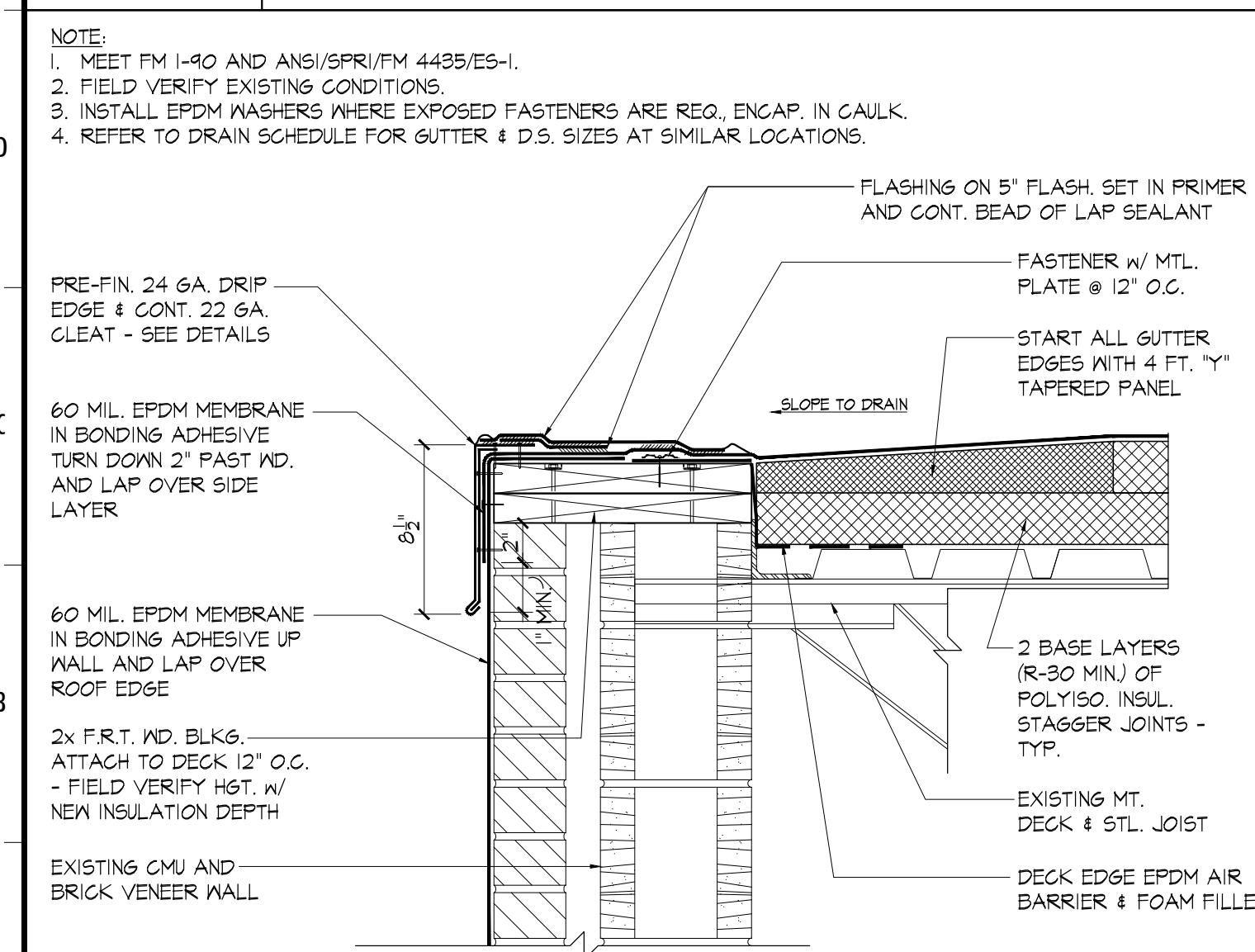
E5 3E HIGH ROOF EDGE
22009-DETAILS 1 1/2" = 1'-0"



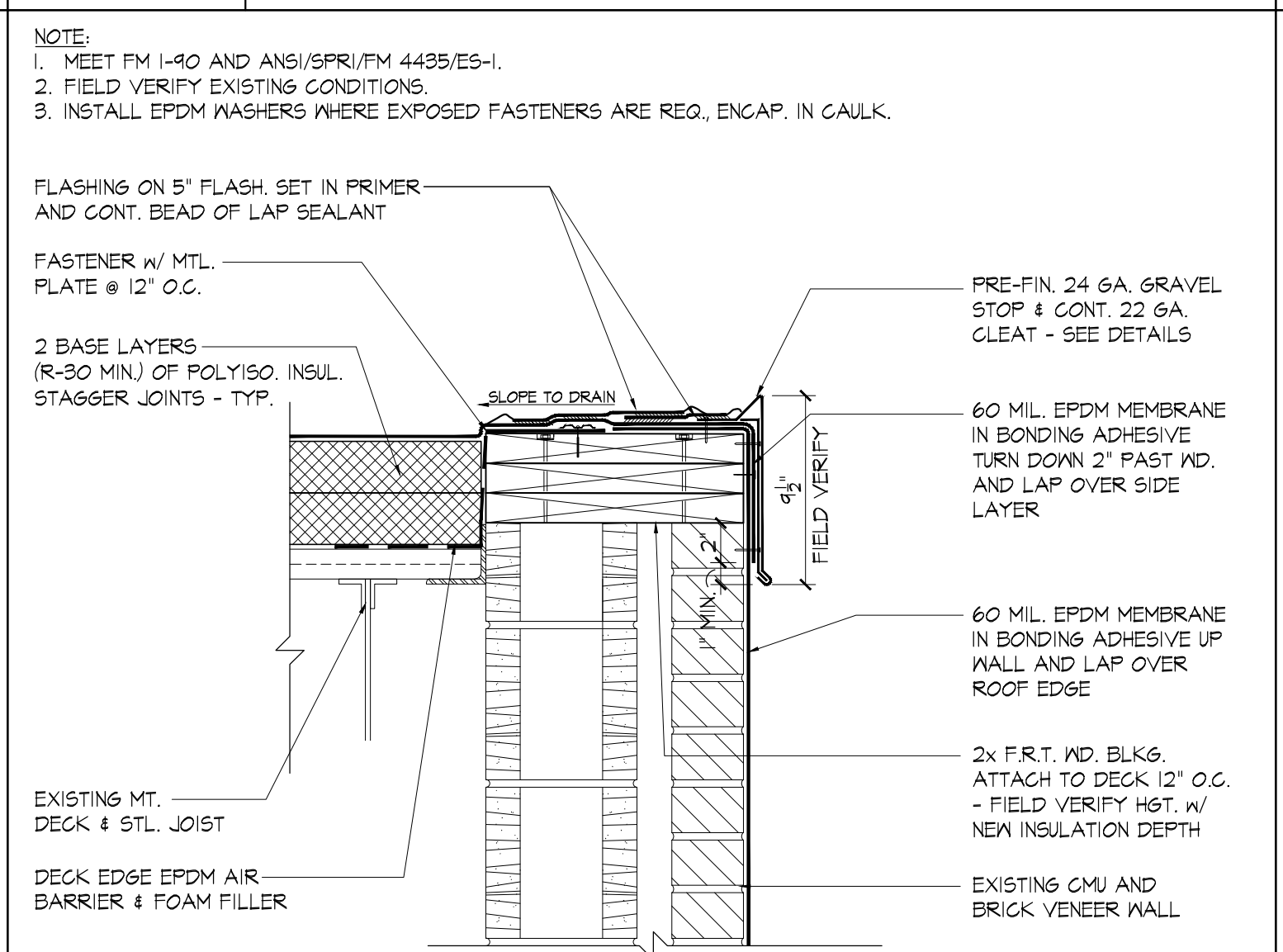
E9 CHANGE AT FACADE ELEVATION
22009-DETAILS 1 1/2" = 1'-0"



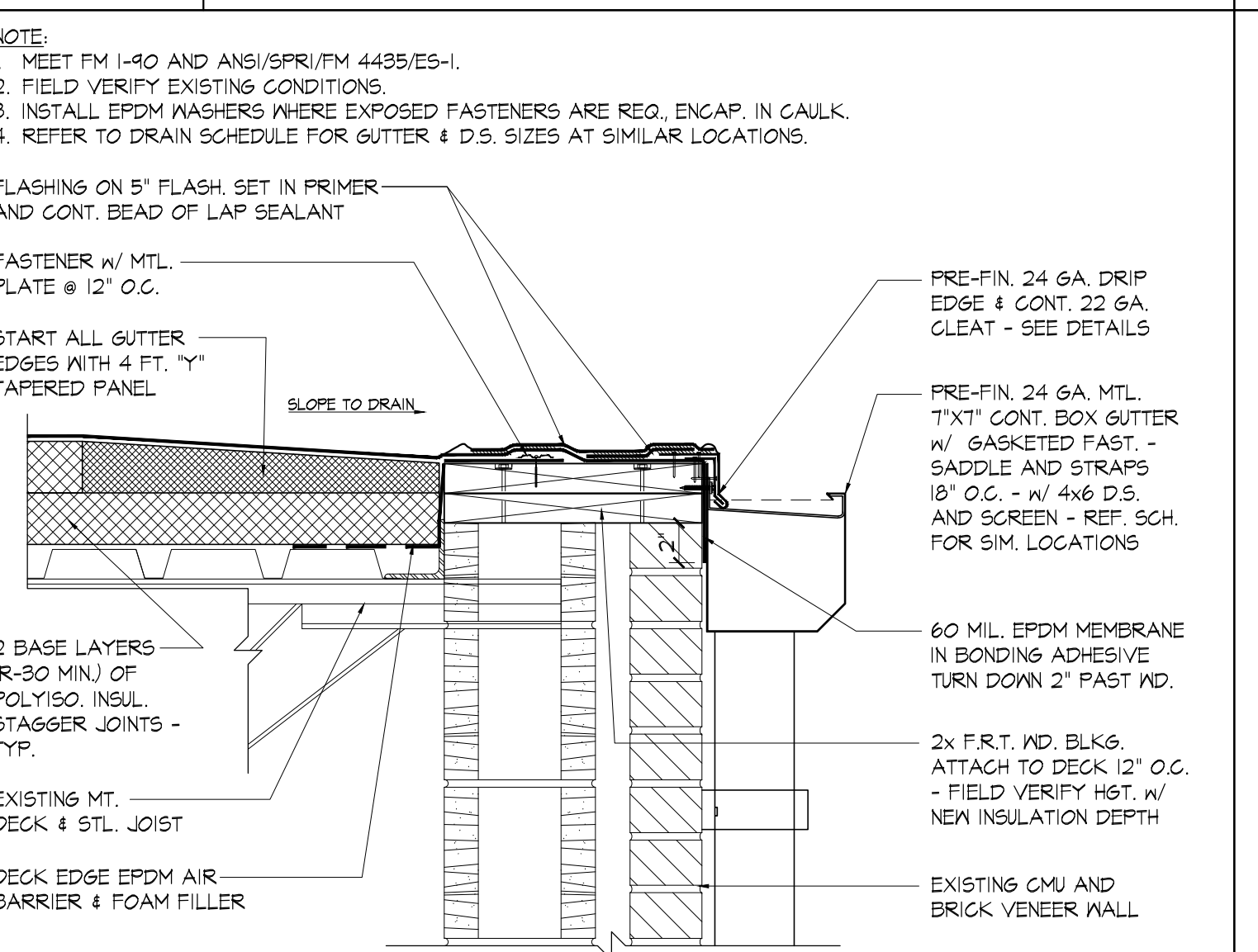
F13 PARAPET RETURN
22009-DETAILS 1 1/2" = 1'-0"



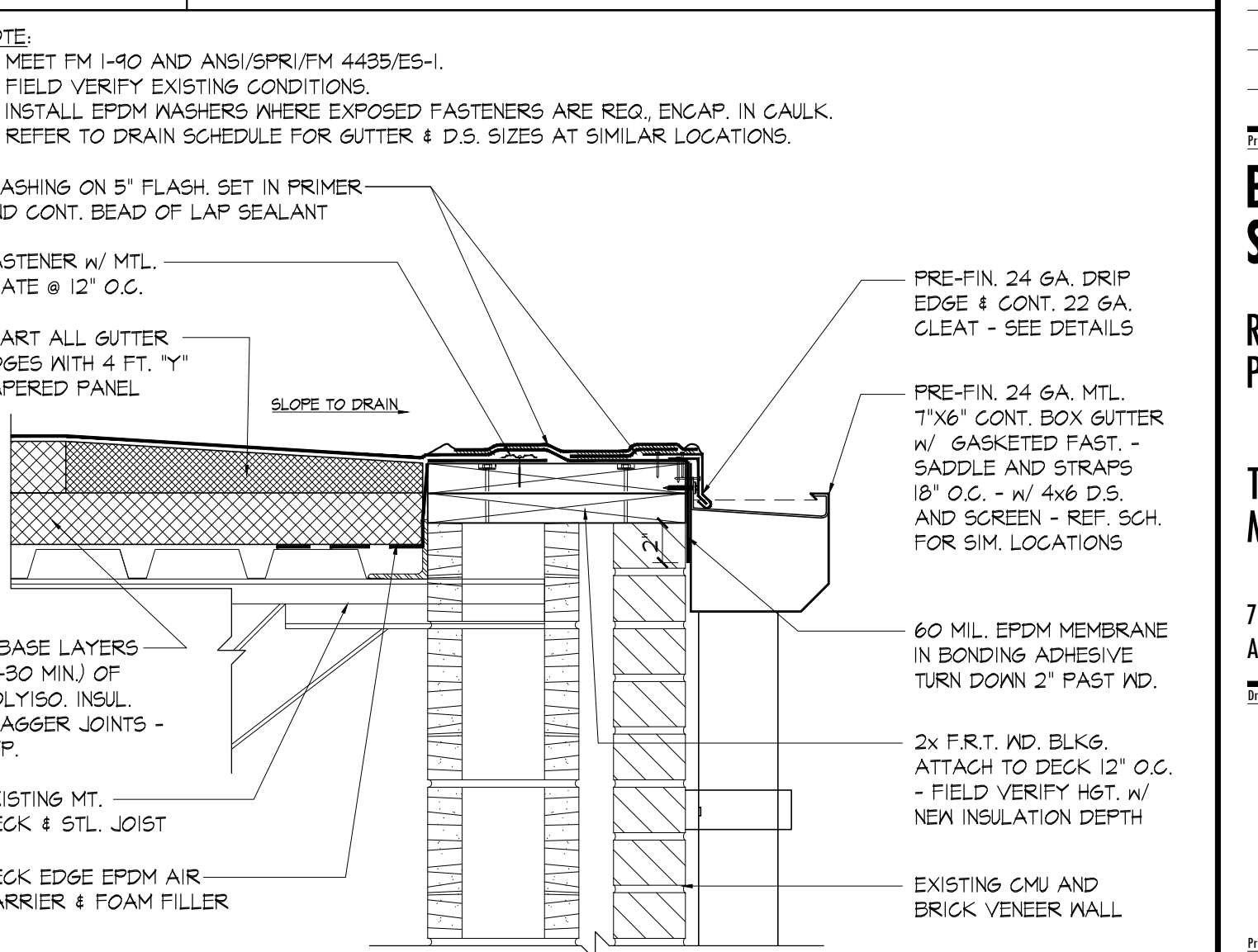
A1 3E ELEVATOR LOW EDGE
22009-DETAILS 1 1/2" = 1'-0"



A5 3E ELEVATOR ROOF EDGE
22009-DETAILS 1 1/2" = 1'-0"



A9 8D ROOF EDGE @ GUTTER
22009-DETAILS 1 1/2" = 1'-0"



A13 8E ROOF EDGE @ GUTTER
22009-DETAILS 1 1/2" = 1'-0"

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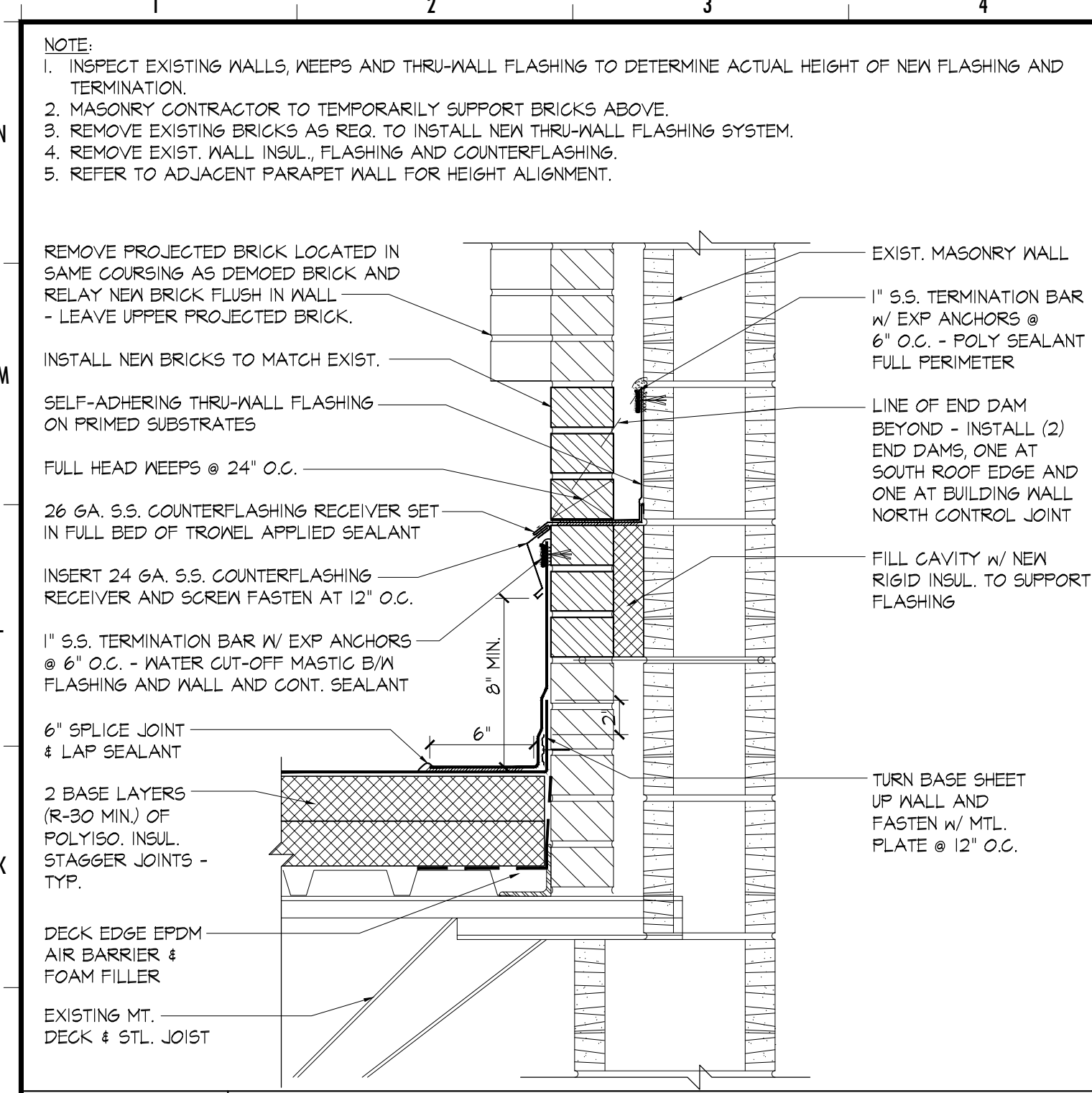
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05-30-24

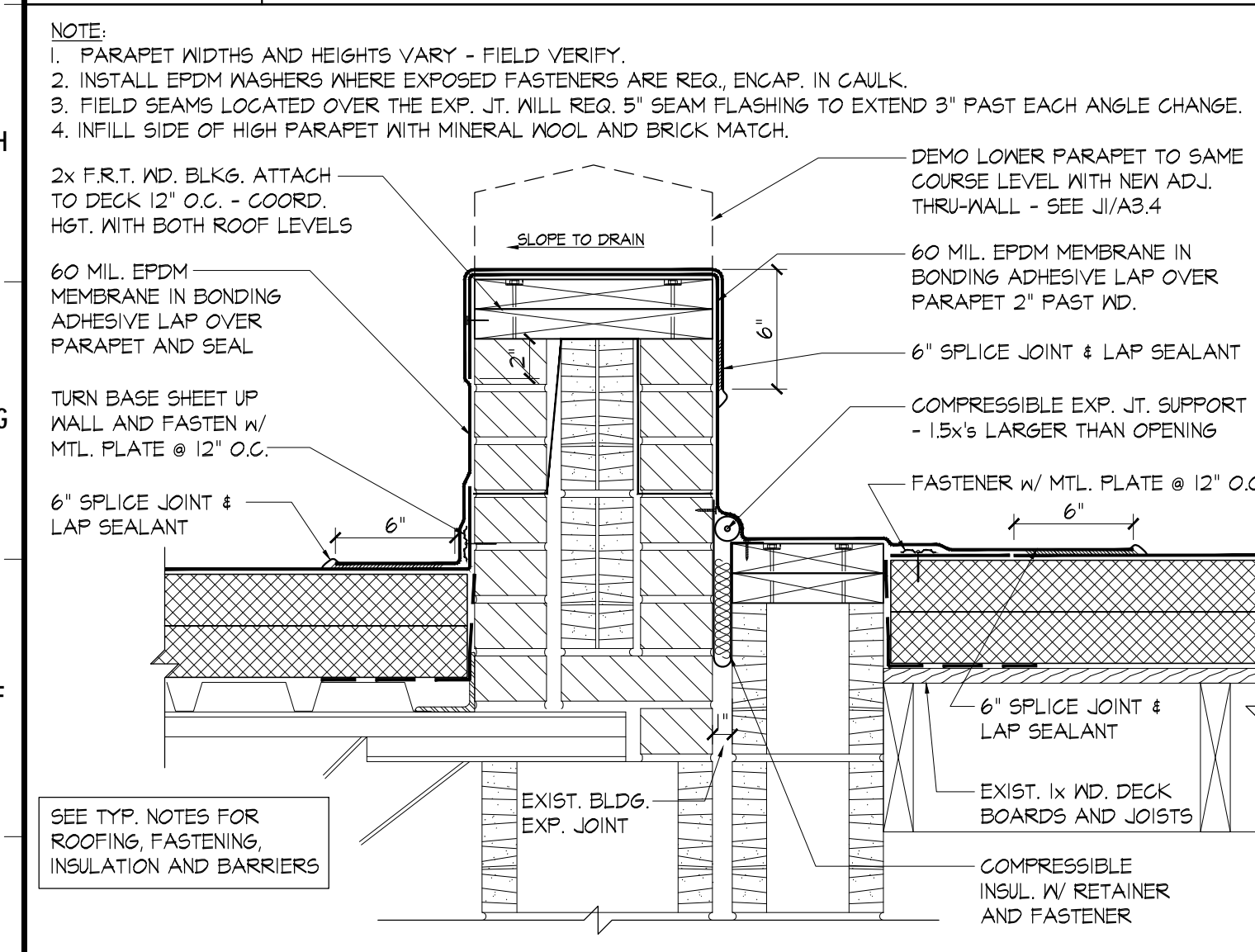
Project Name: **Bolton High School**
Roof Replacement Package 2
TFM: 02447, 02447-A
MSCS: 2023-0607
7323 Brunswick Rd
Arlington, Tennessee 38002

Project No. 22009 Date 05.30.24

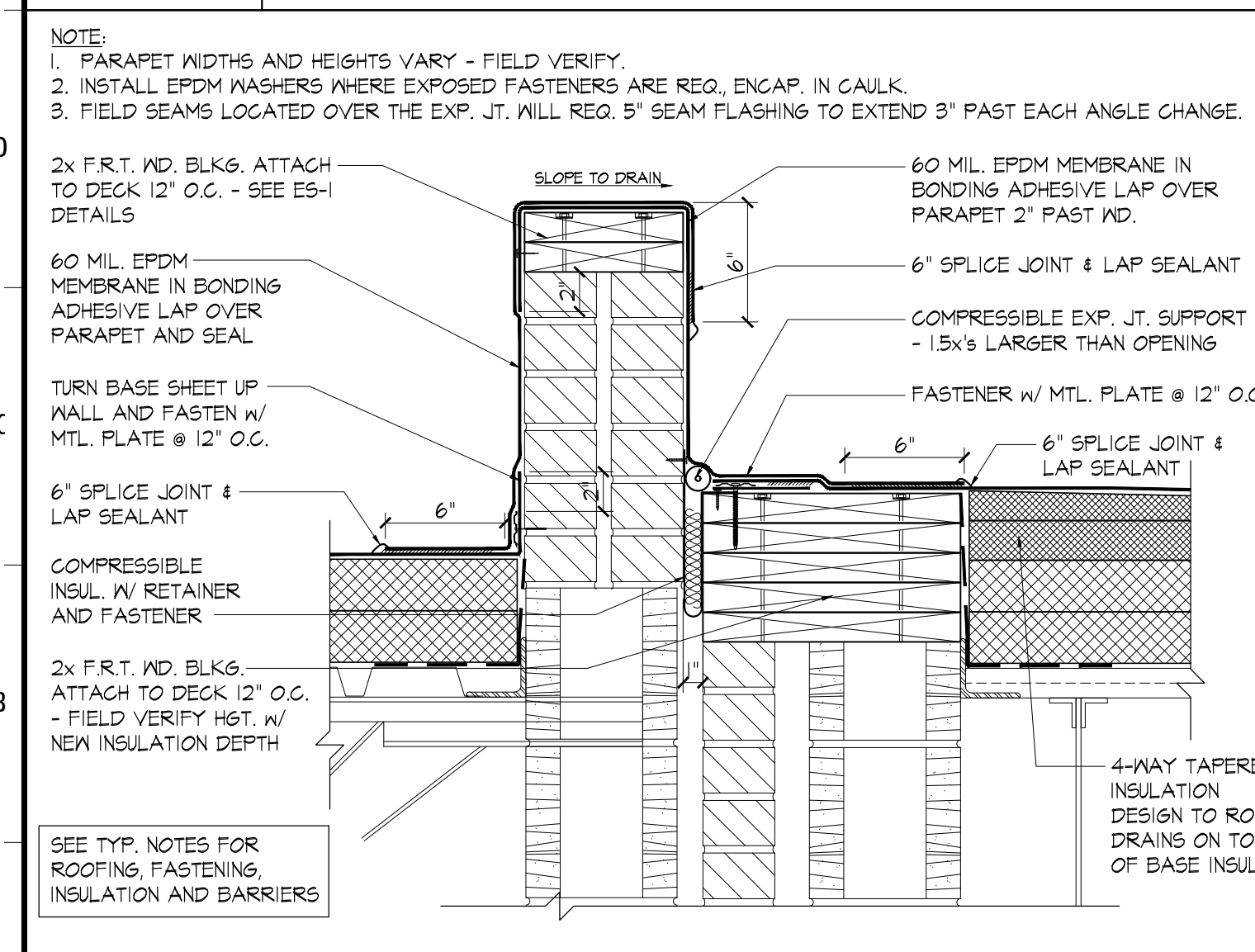
ROOF DETAILS
A3.3



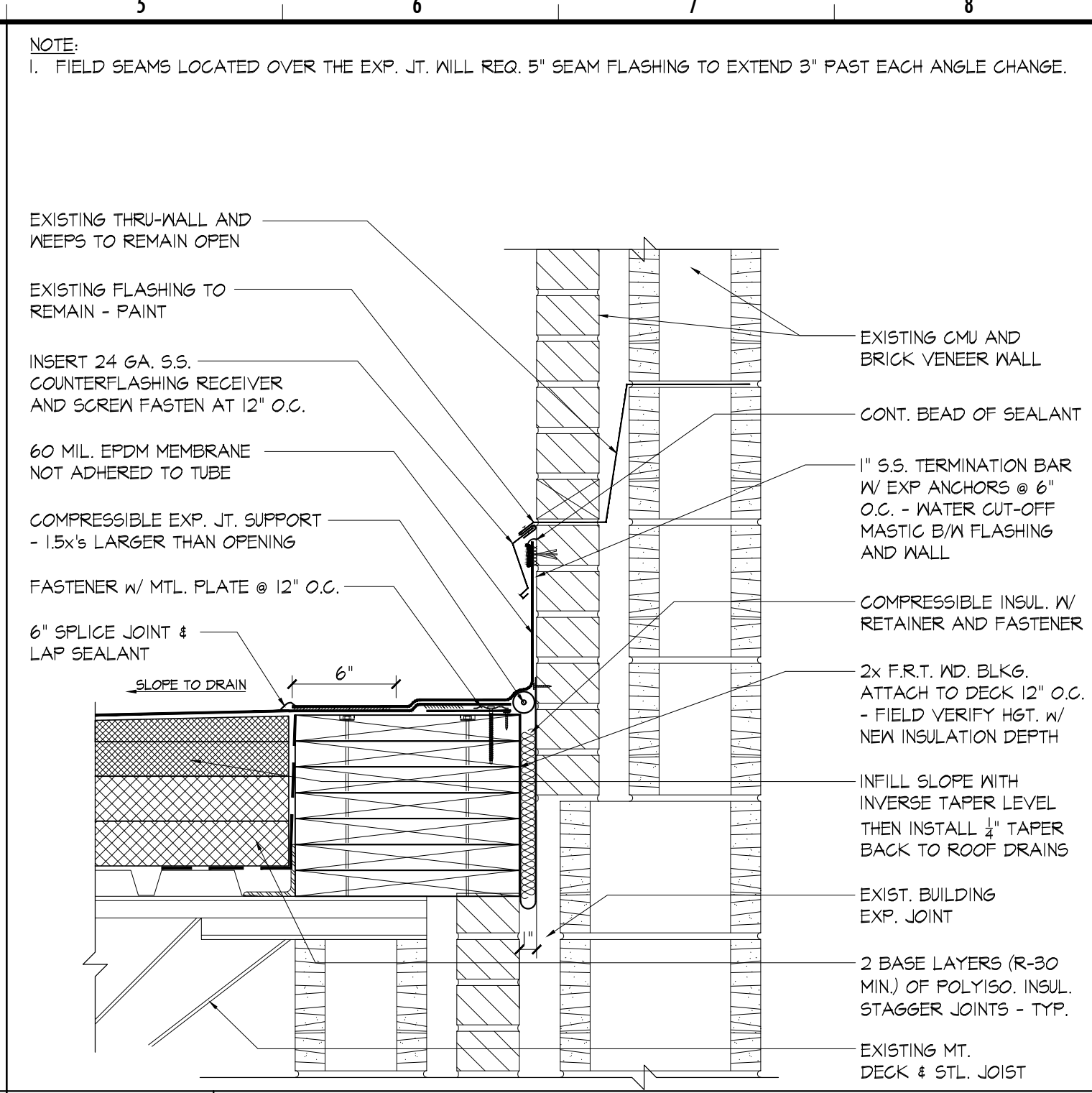
J1 THRU-WALL DETAIL @ 4C - 4-HR FIREWALL
 22009-DETAILS 1 1/2" = 1'-0"



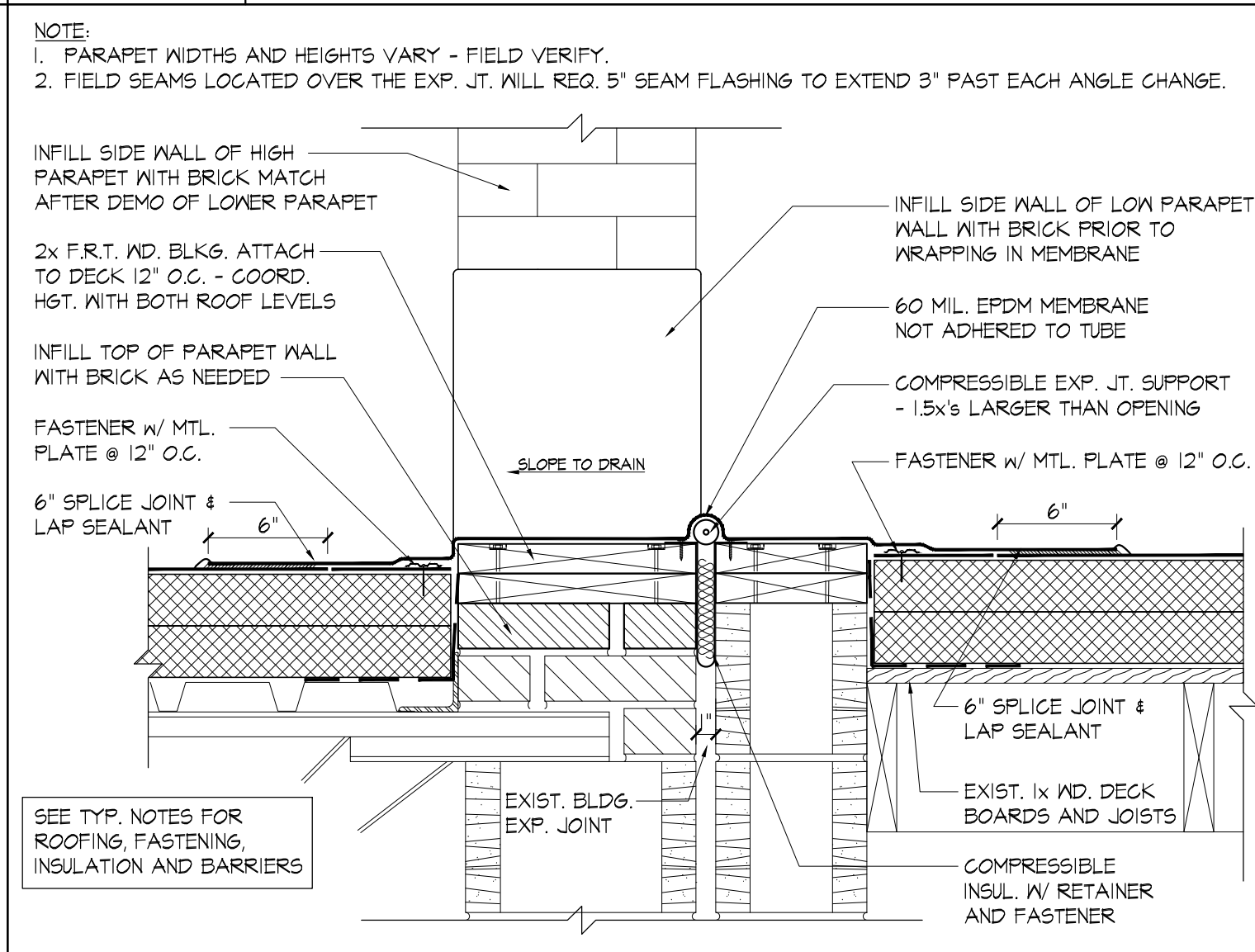
E1 SIDE OLD GYM ROOF TRANSITION - 4-HR FIREWALL
 22009-DETAILS 1 1/2" = 1'-0"



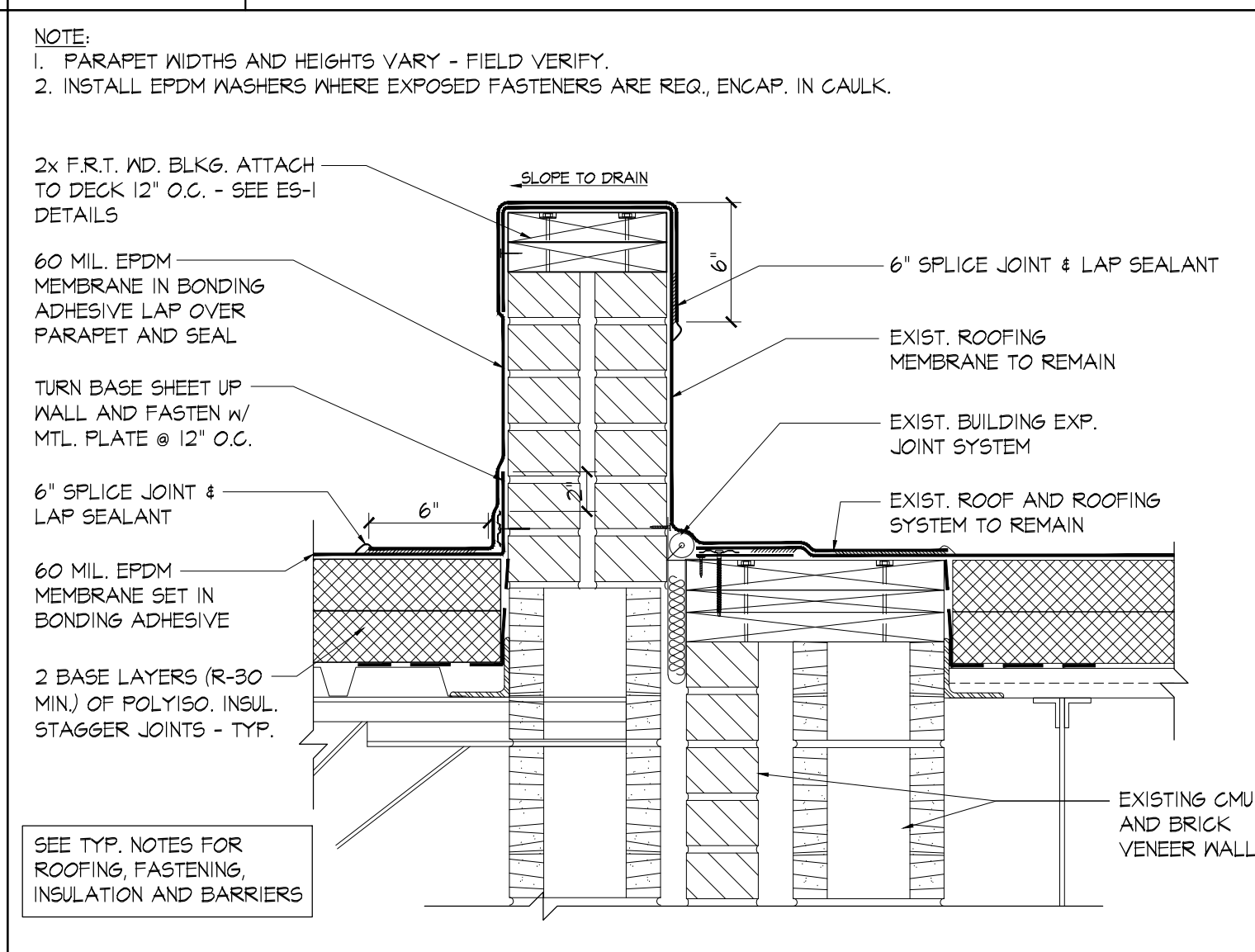
A1 HIDDEN PARAPET w/ EXPASION - 4-HR FIREWALL
 22009-DETAILS 1 1/2" = 1'-0"



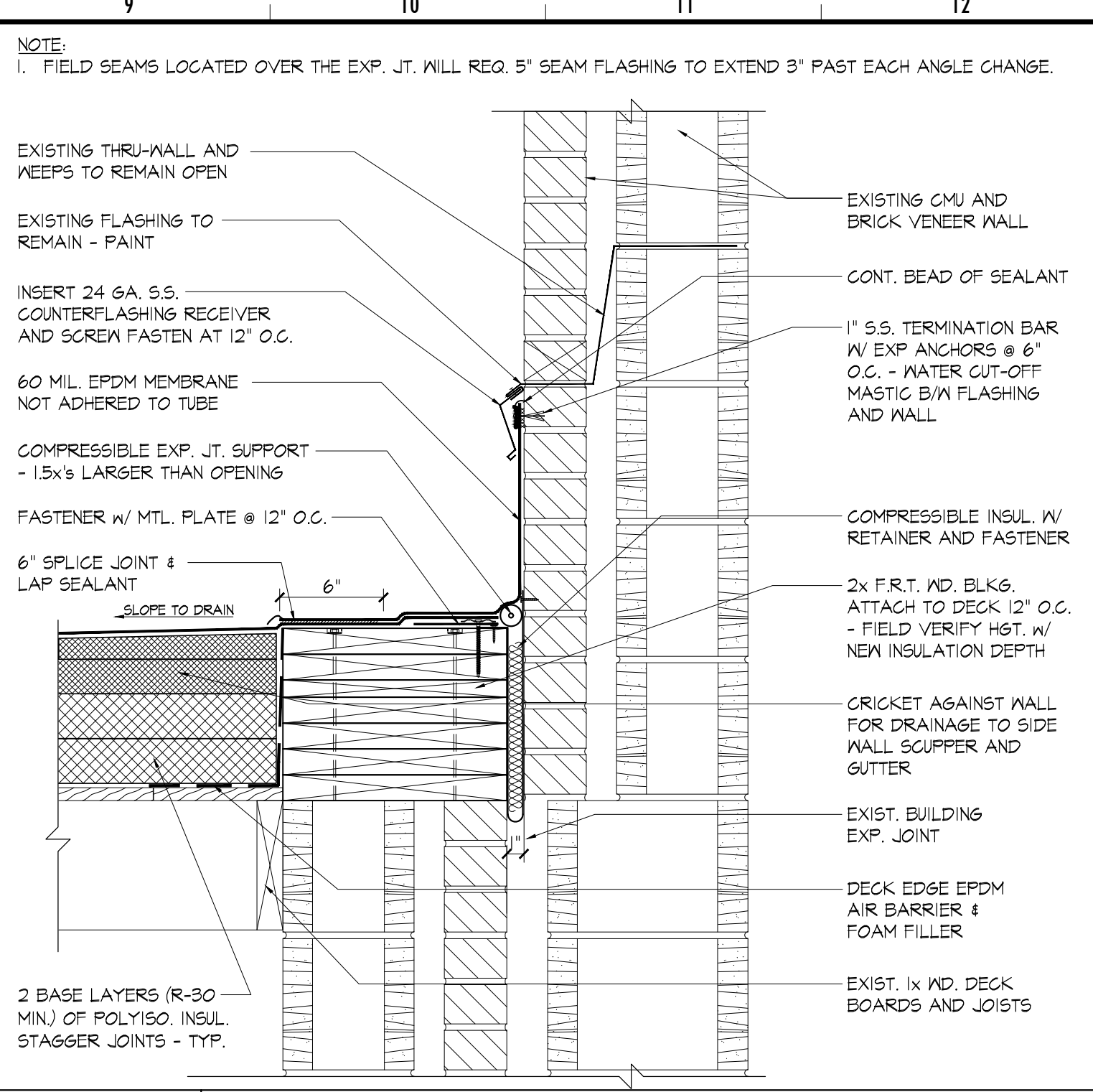
J5 4C WALL @ EXPANSION JOINT
 22009-DETAILS 1 1/2" = 1'-0"



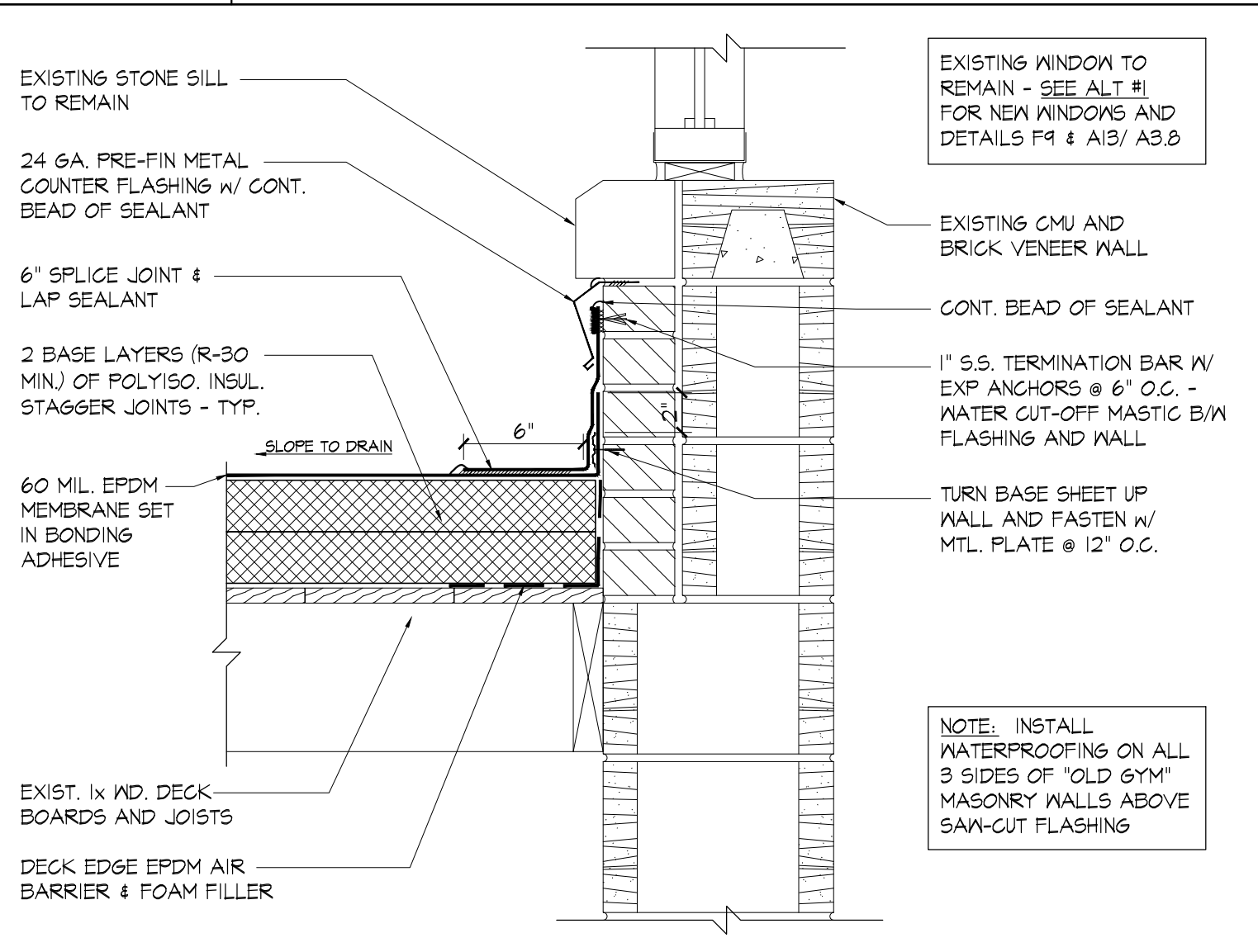
E5 SIDE OLD GYM SCUPPER
 22009-DETAILS 1 1/2" = 1'-0"



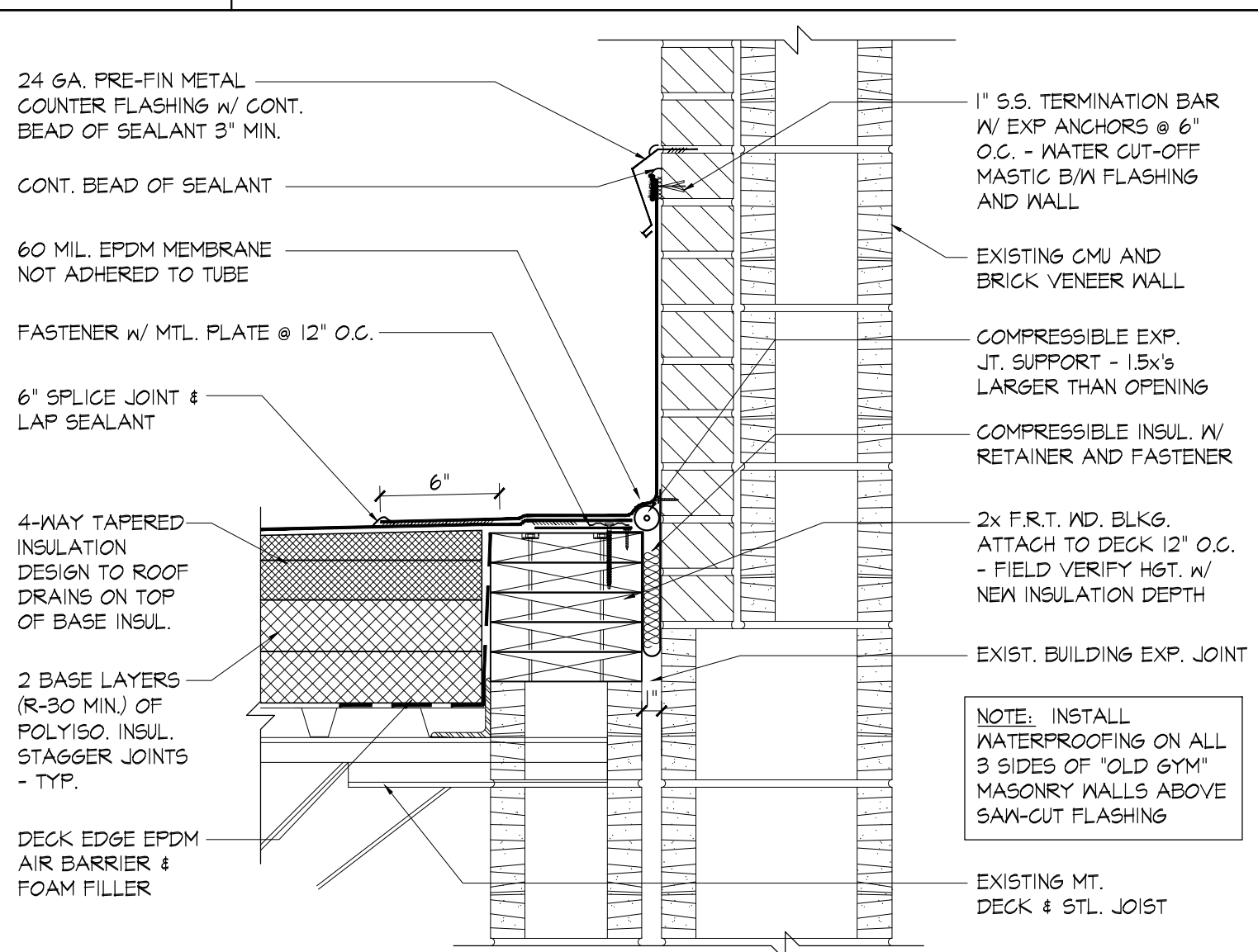
A5 HIDDEN PARAPET - 4-HR FIREWALL
 22009-DETAILS 1 1/2" = 1'-0"



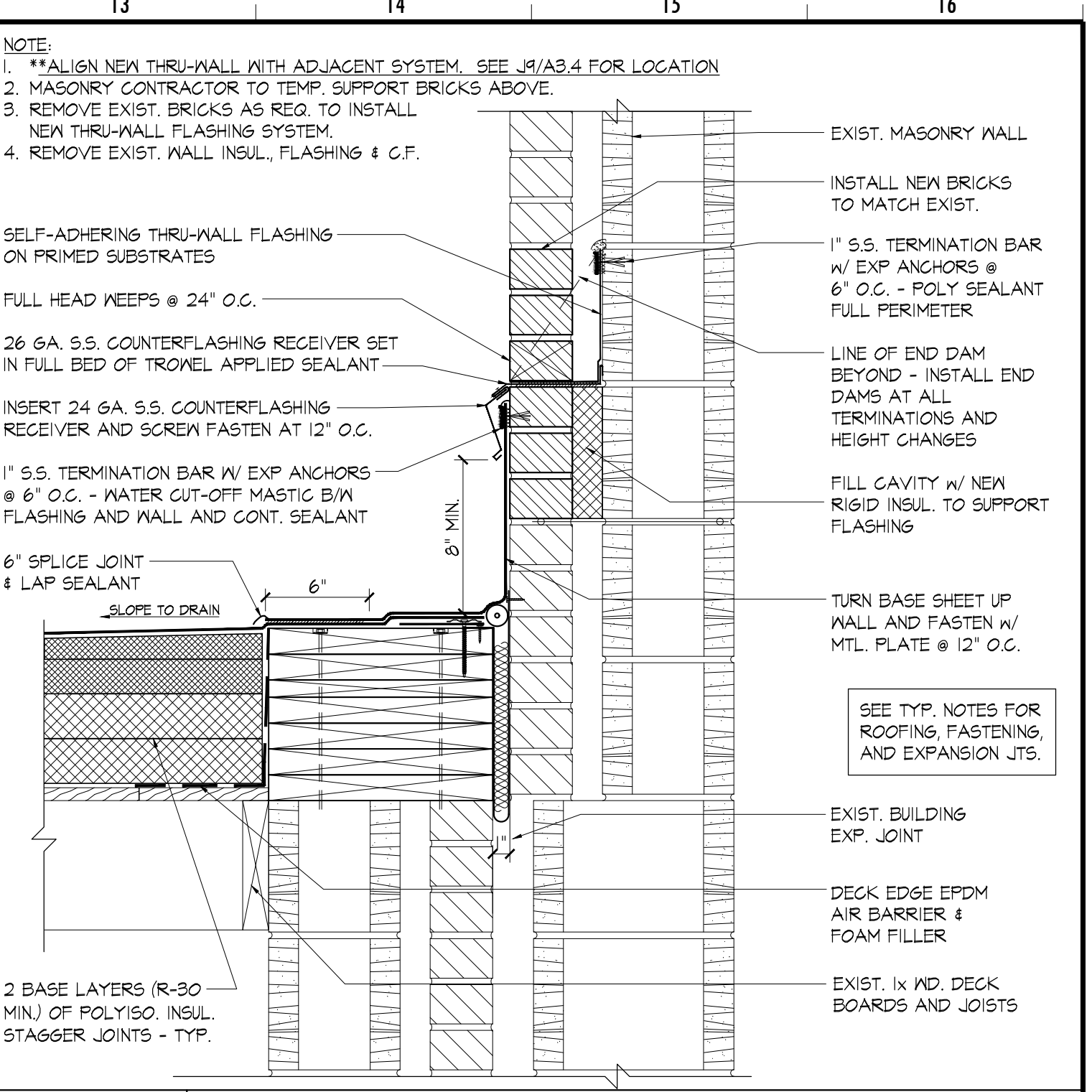
J9 THRU-WALL DETAIL @ 4B TO REMAIN
 22009-DETAILS 1 1/2" = 1'-0"



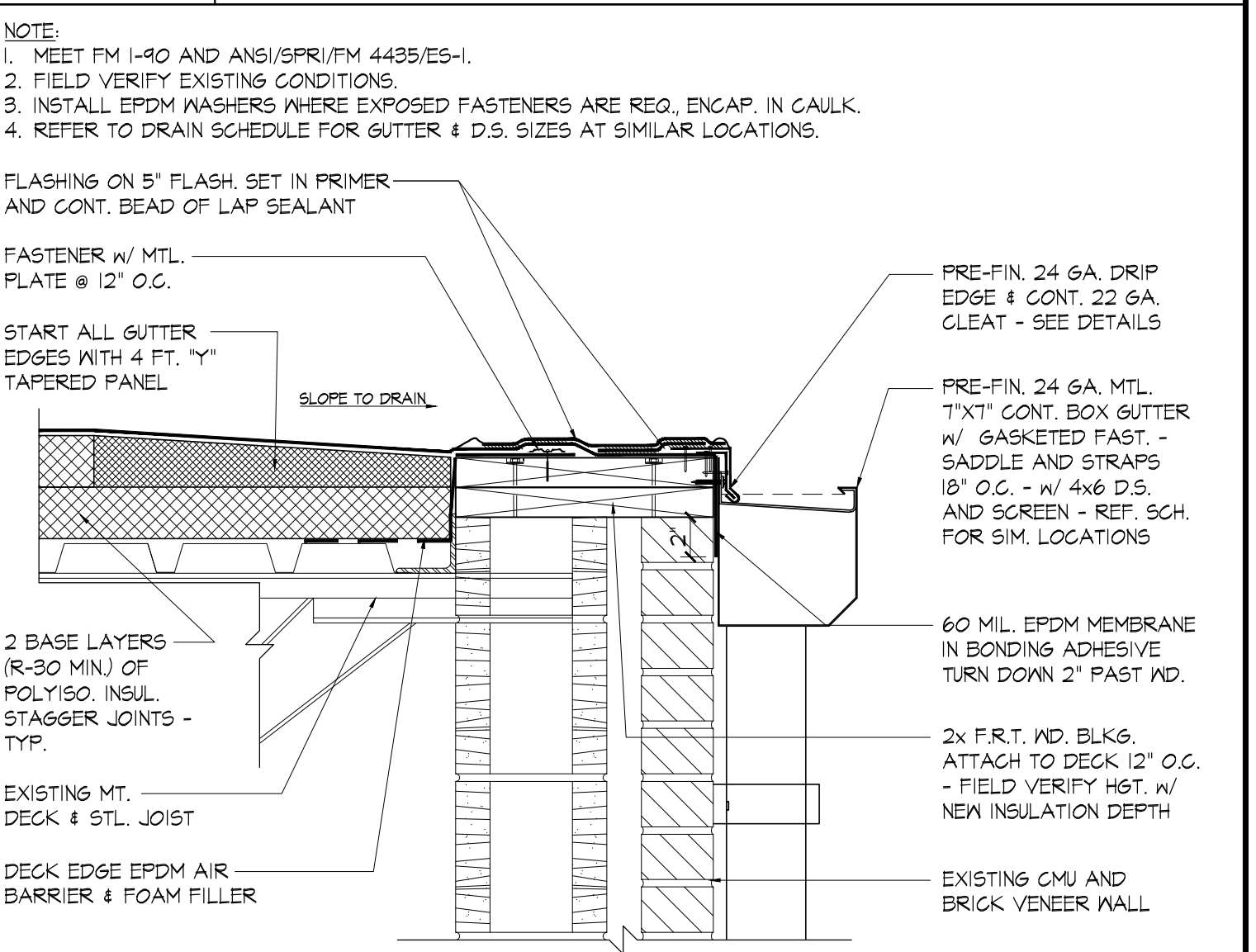
E9 OLD GYM WALL @ WINDOWS
 22009-DETAILS 1 1/2" = 1'-0"



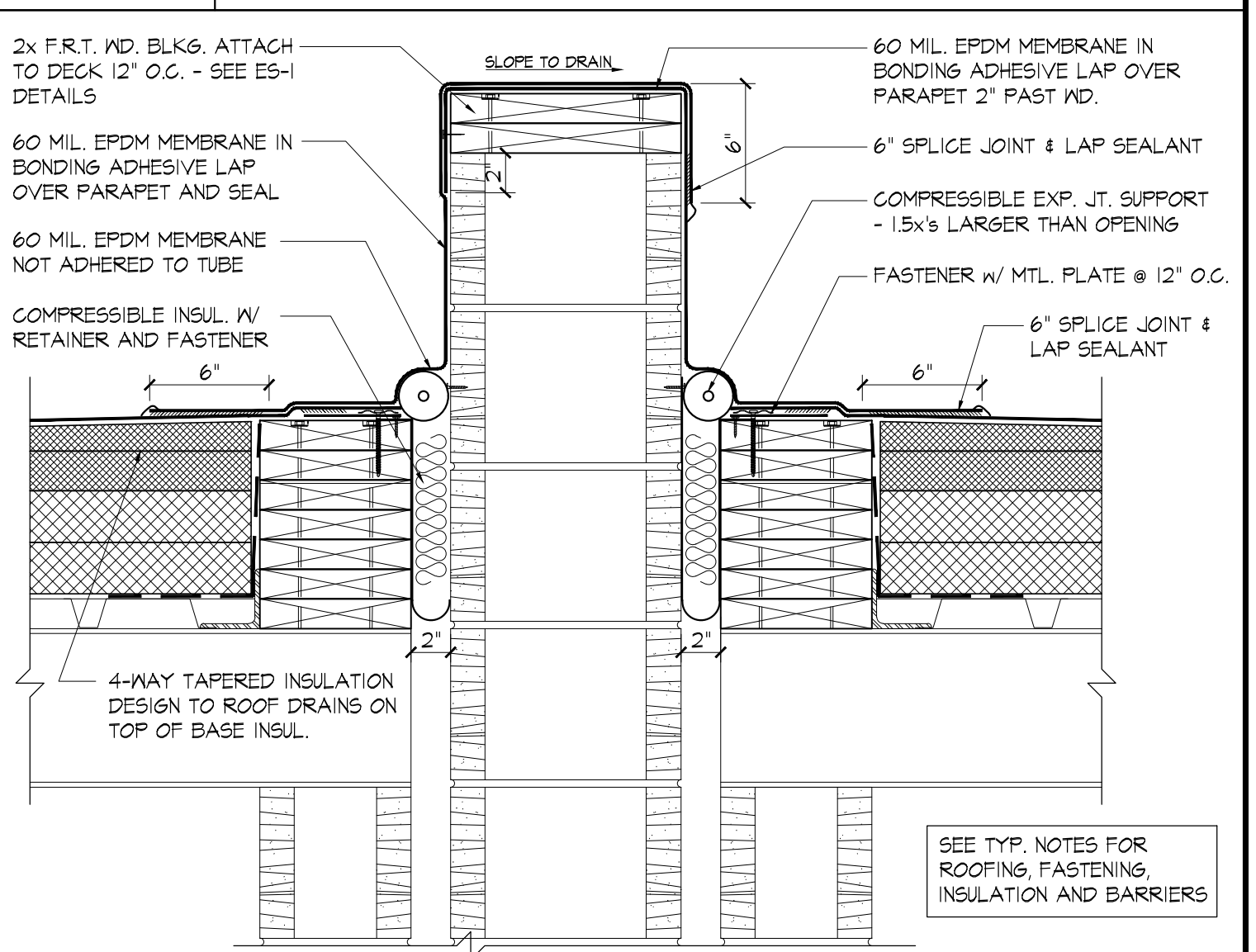
A9 GYM WALL @ EXP. JOINT
 22006-DETAILS 1 1/2" = 1'-0"



J13 THRU-WALL DETAIL @ 4B RAISE
 22009-DETAILS 1 1/2" = 1'-0"



E13 4B ROOF EDGE @ GUTTER
 22009-DETAILS 1 1/2" = 1'-0"



A13 DOUBLE EXPANSION - 4-HR FIREWALL
 22009-DETAILS 1 1/2" = 1'-0"

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05-30-24

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 STATE OF TENNESSEE

Revisions

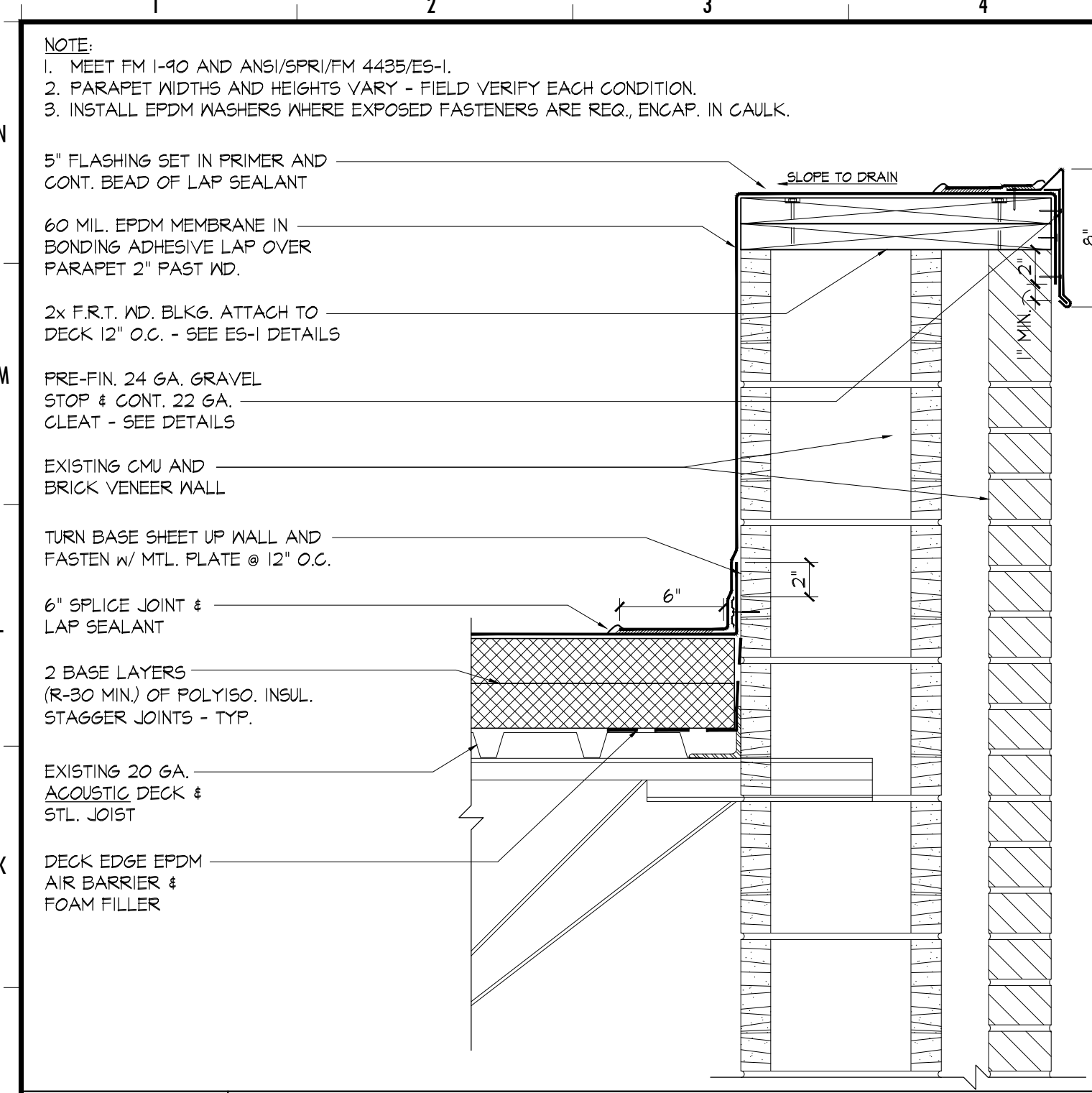
01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Bolton High School
 Roof Replacement Package 2
 TFM: 02447, 02447-A
 MSCS: 2023-0607
 7323 Brunswick Rd
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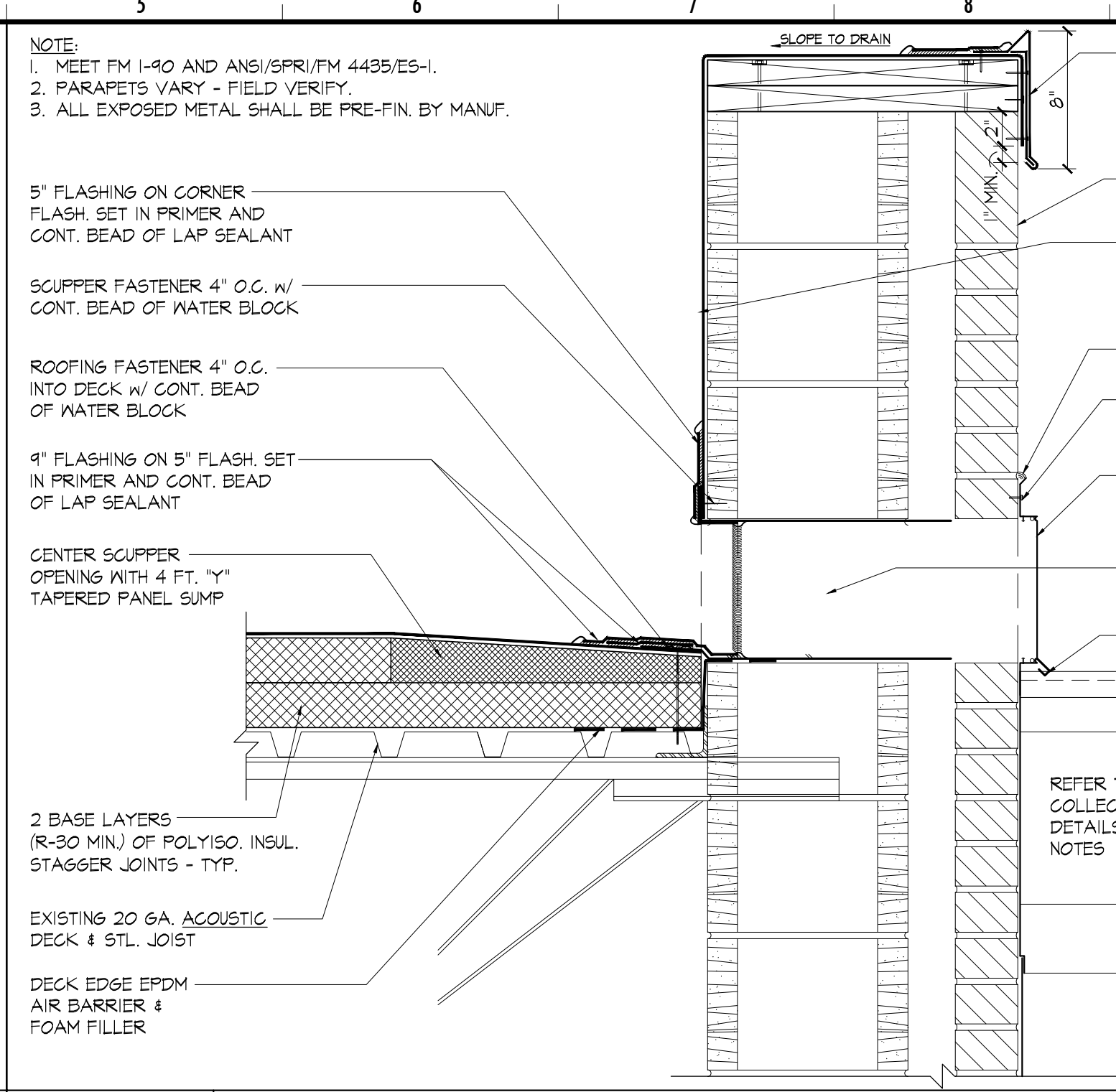
ROOF DETAILS

Project No. 22009 Date 05.30.24

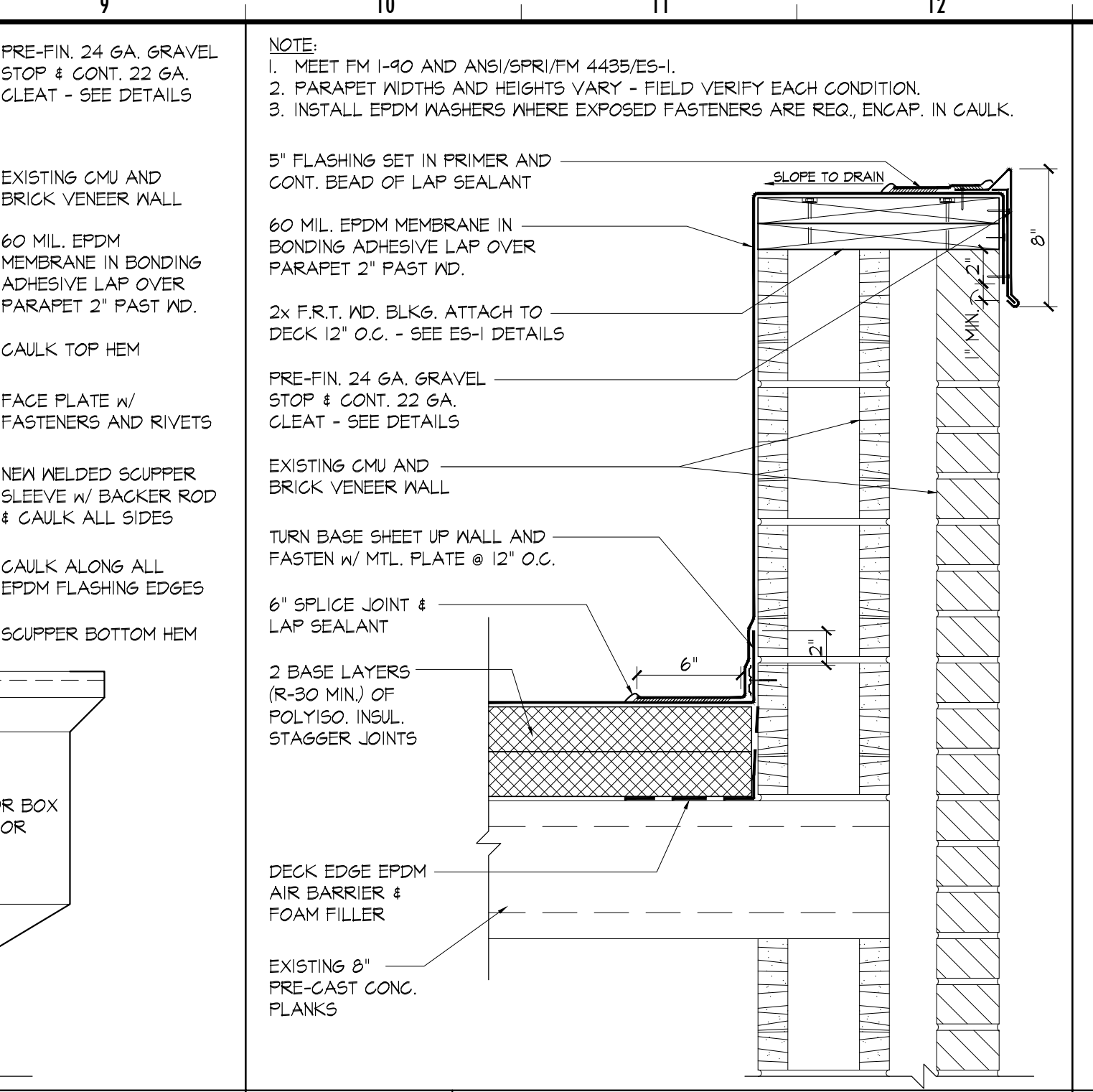
A3.4



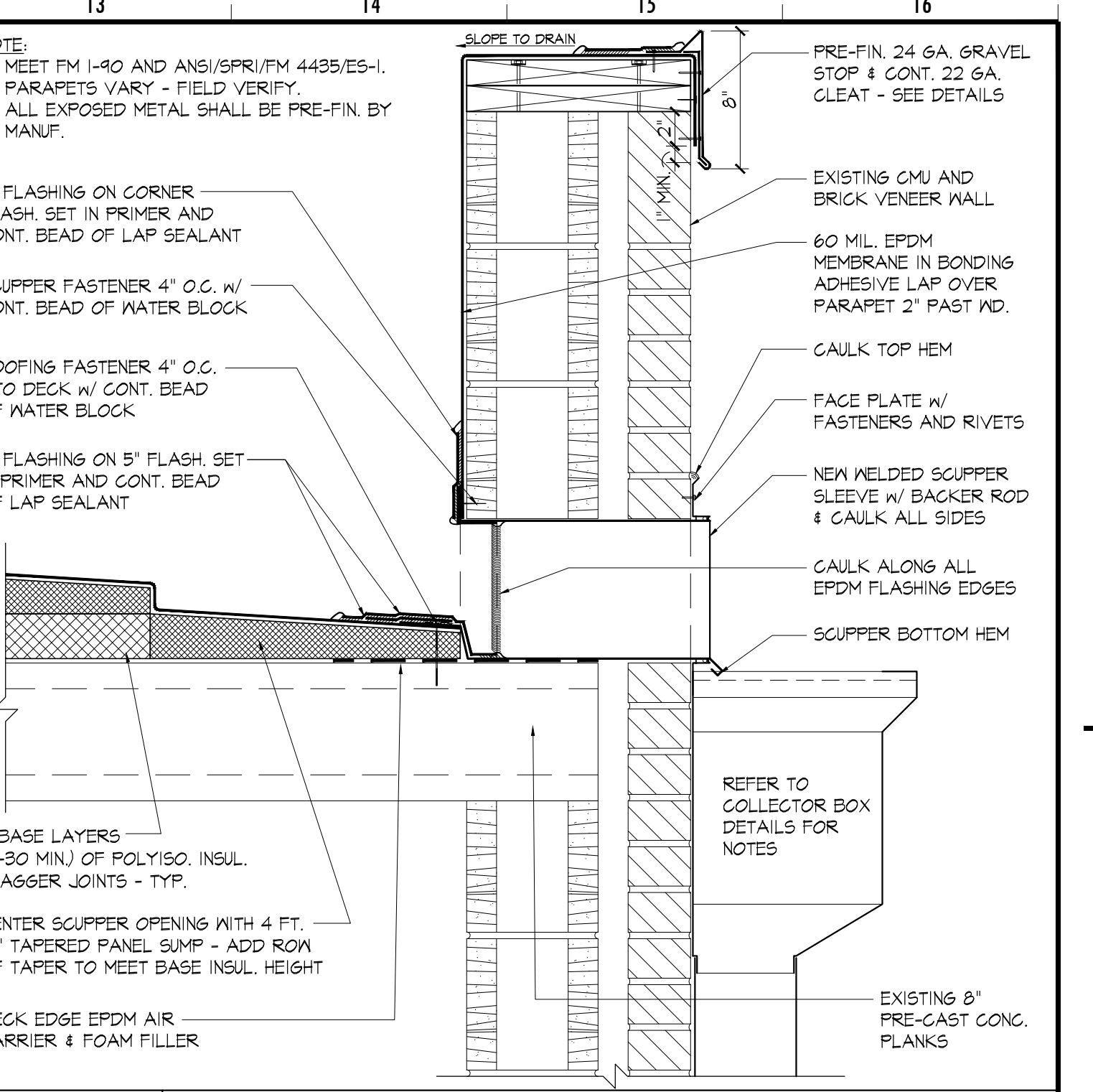
J1 PARAPET @ NEW GYMNASIUM
22009-DETAILS 1 1/2" = 1'-0"



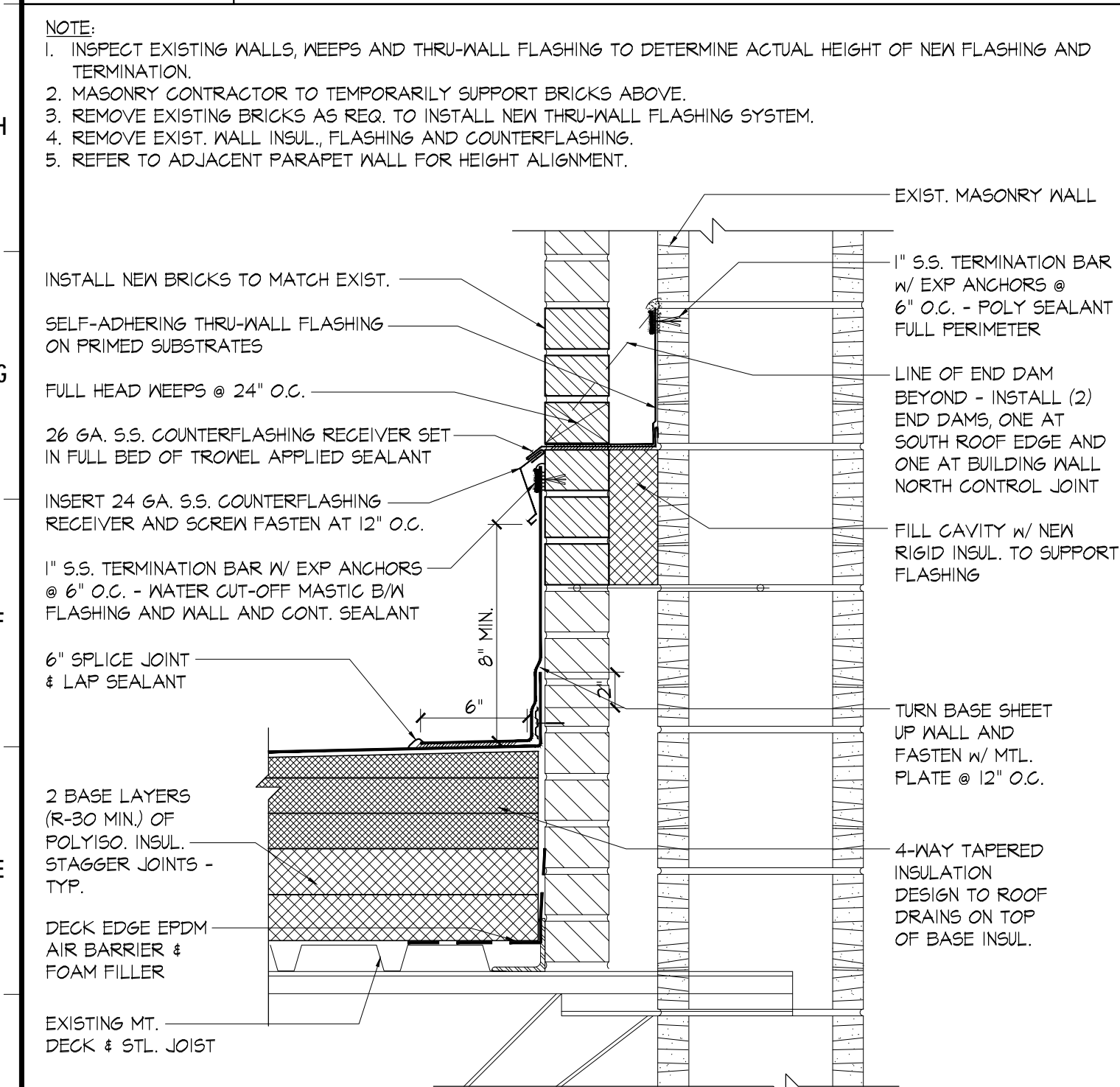
J5 SCUPPER @ NEW GYM
22009-DETAILS 1 1/2" = 1'-0"



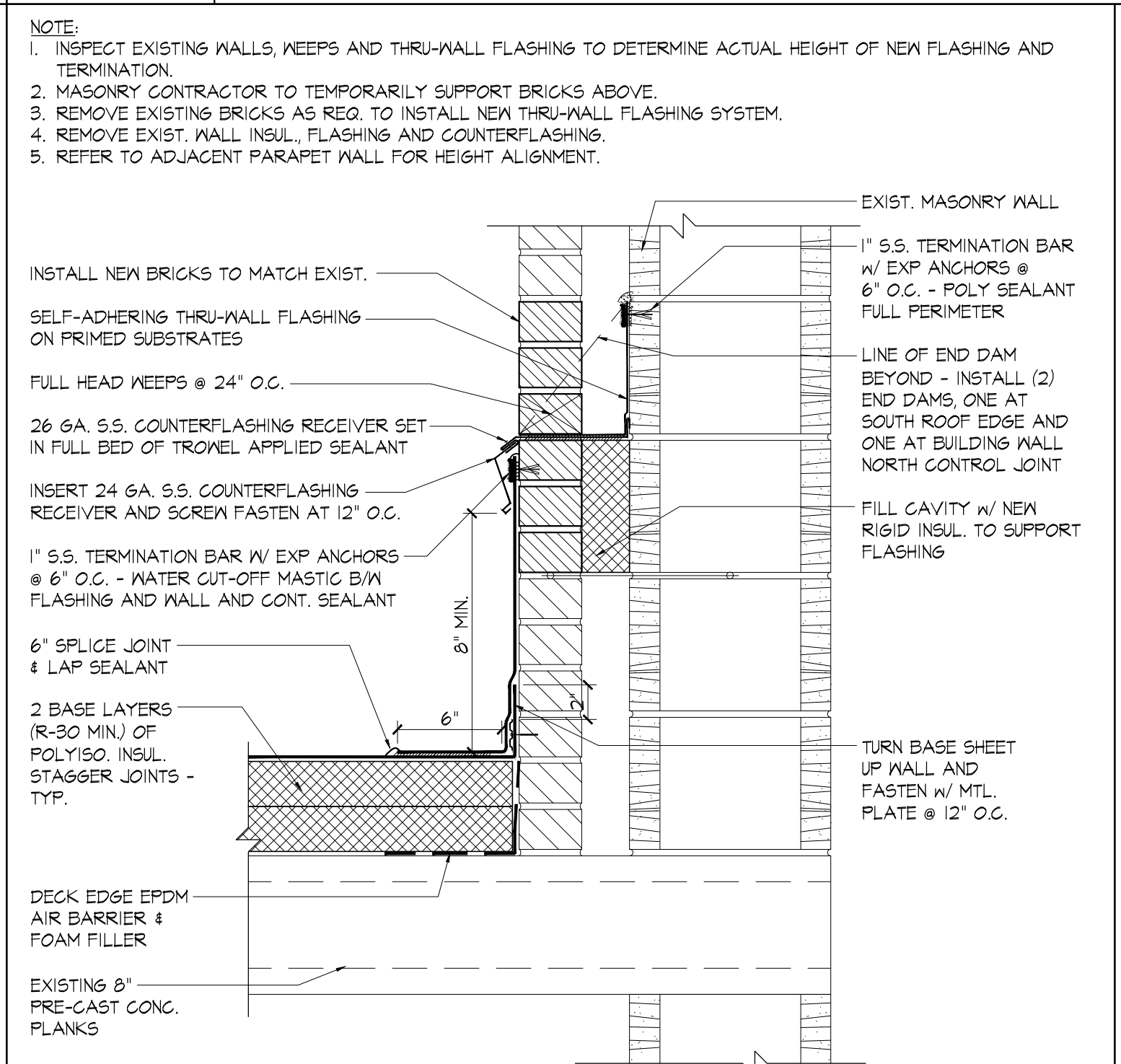
J10 PARAPET @ LOCKER ROOM
22009-DETAILS 1 1/2" = 1'-0"



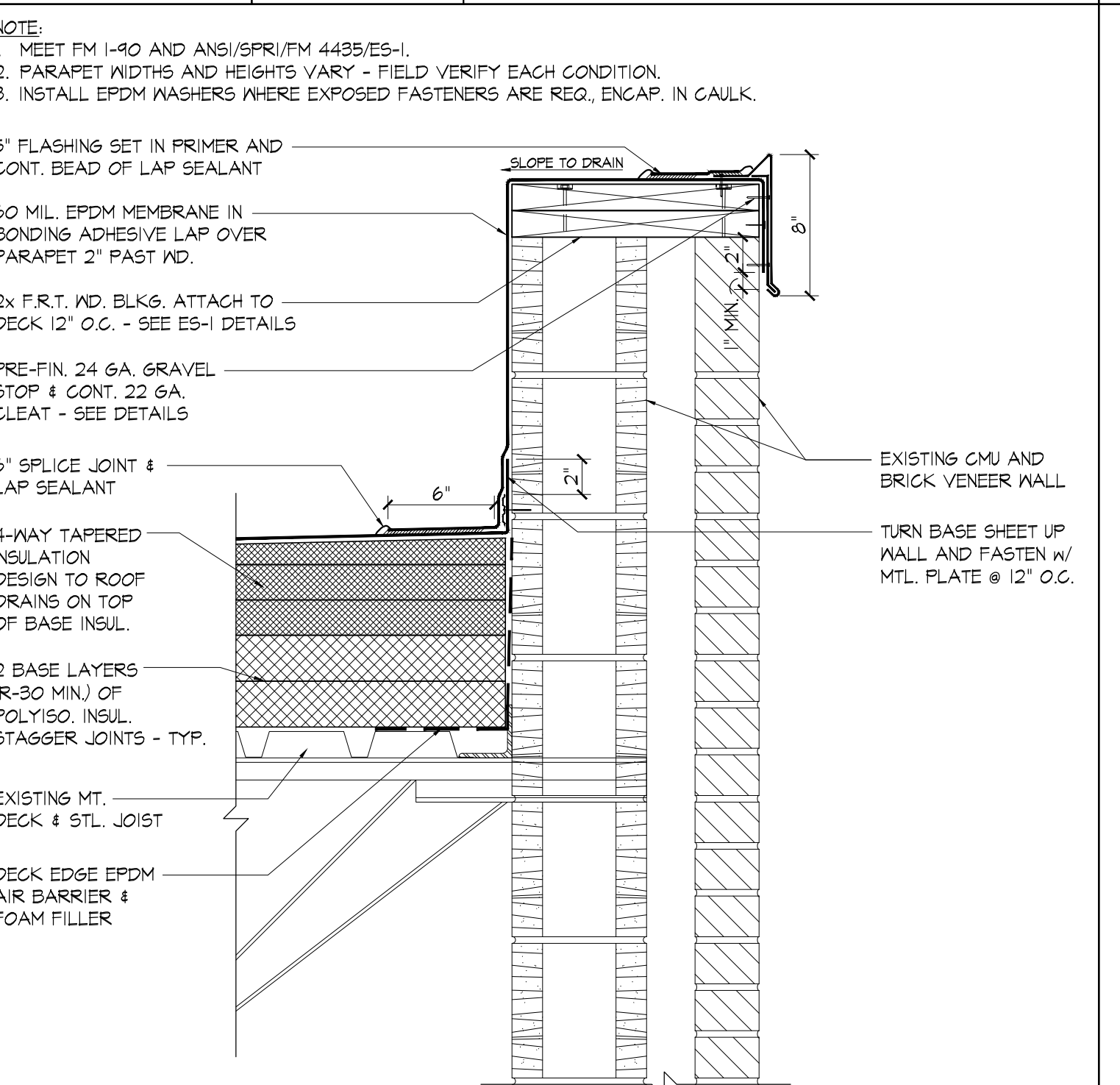
J13 SCUPPER @ LOCKER ROOM
22009-DETAILS 1 1/2" = 1'-0"



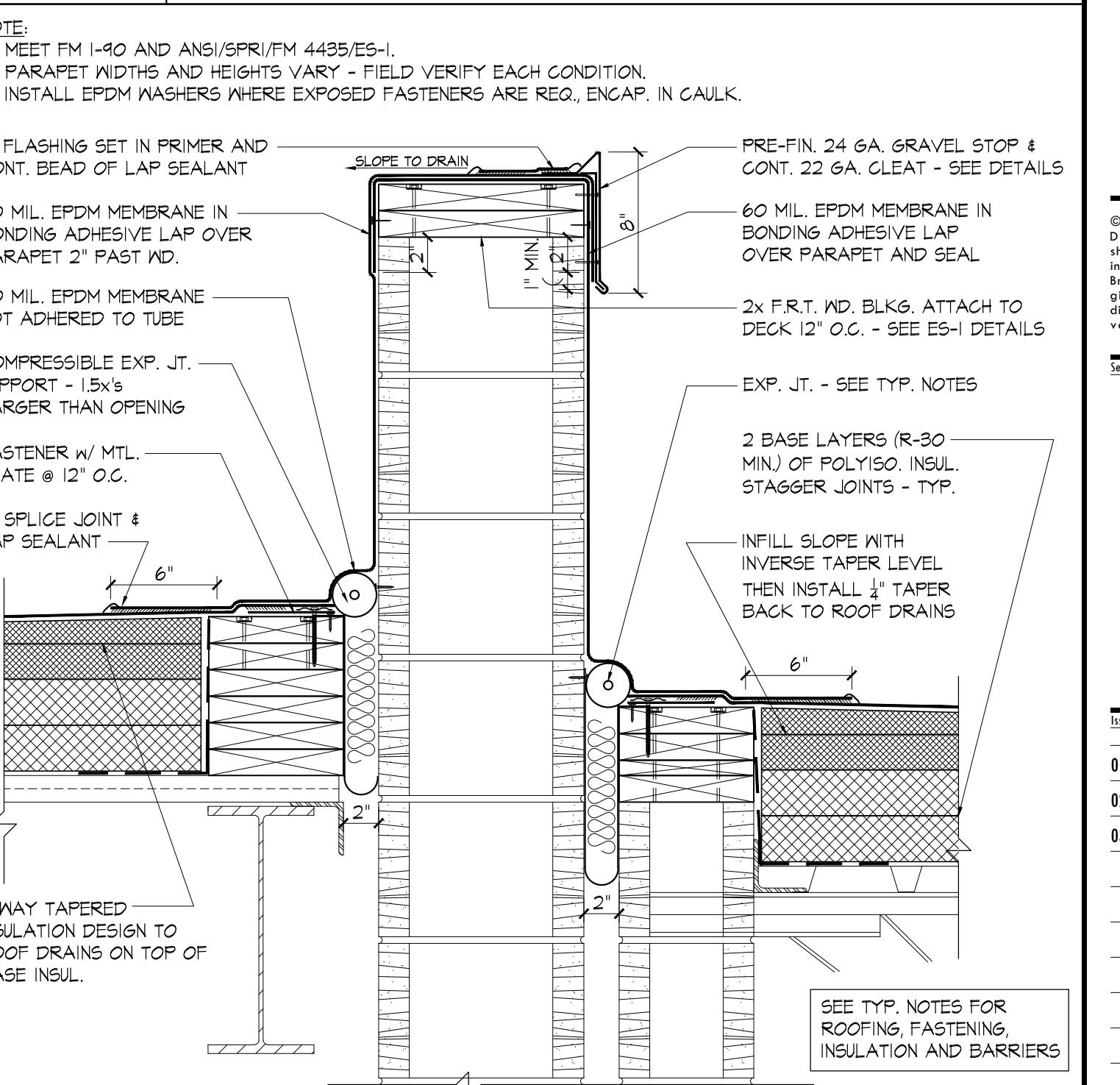
D1 THRU-WALL @ NEW GYMNASIUM
22009-DETAILS 1 1/2" = 1'-0"



D5 THRU-WALL @ LOCKER TOOM
22009-DETAILS 1 1/2" = 1'-0"



D9 PARAPET @ 4-WAY TAPER ROOF
22009-DETAILS 1 1/2" = 1'-0"



D13 DOUBLE EXPANSION @ NEW GYMNASIUM 4-HR
22009-DETAILS 1 1/2" = 1'-0"

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Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name
Bolton High School

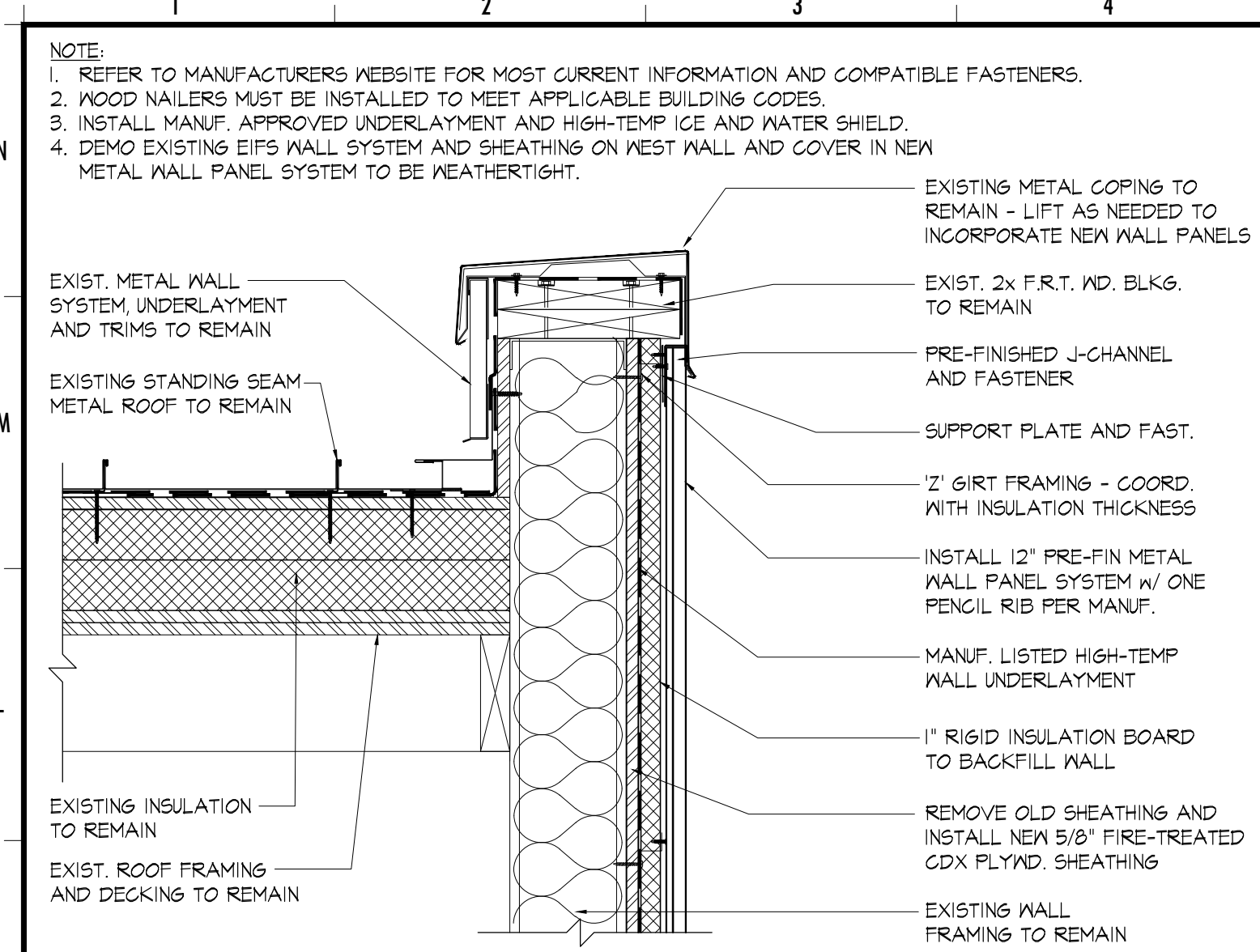
Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

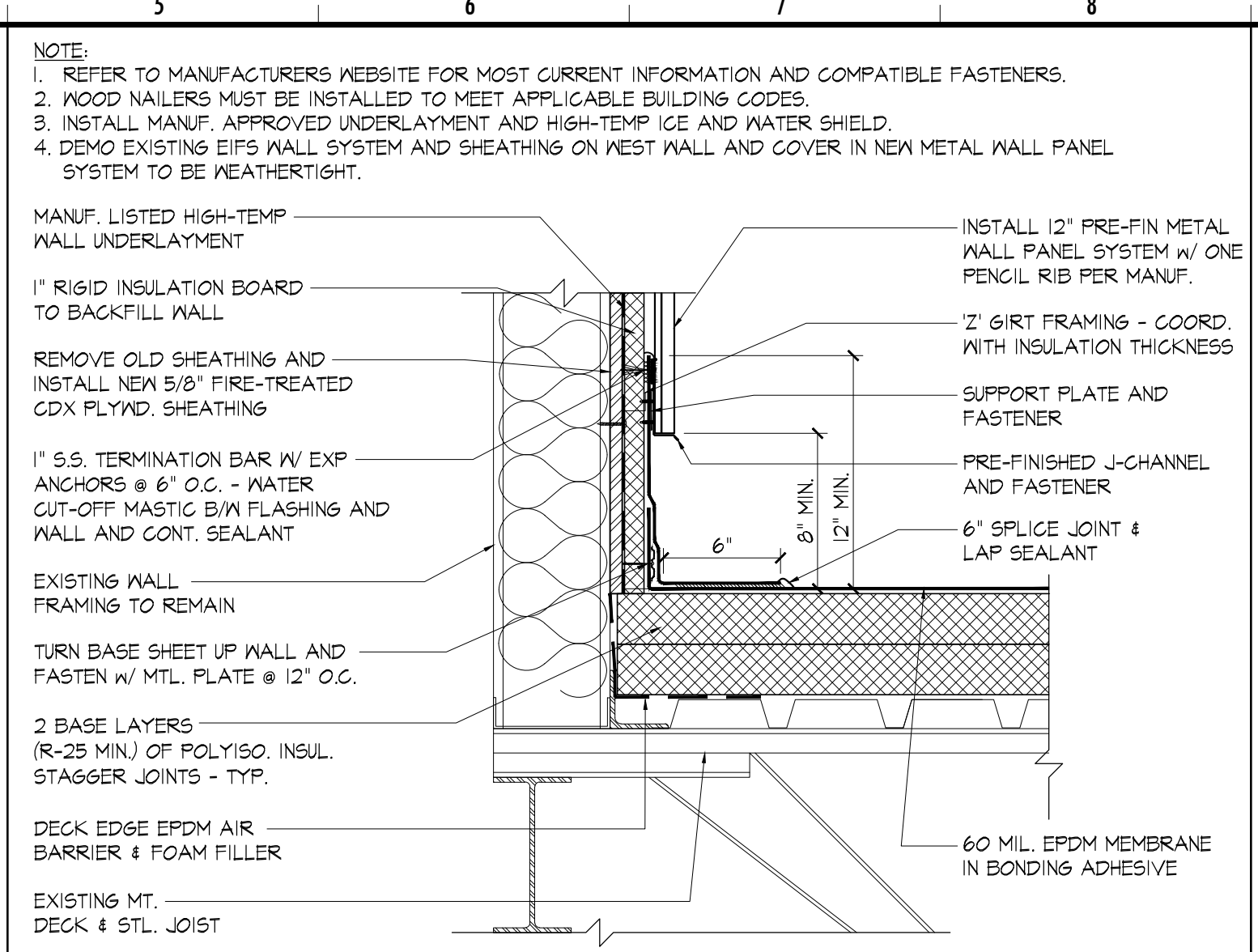
7323 Brunswick Rd
Arlington, Tennessee 38002

Project No. 22009 Date 05.30.24

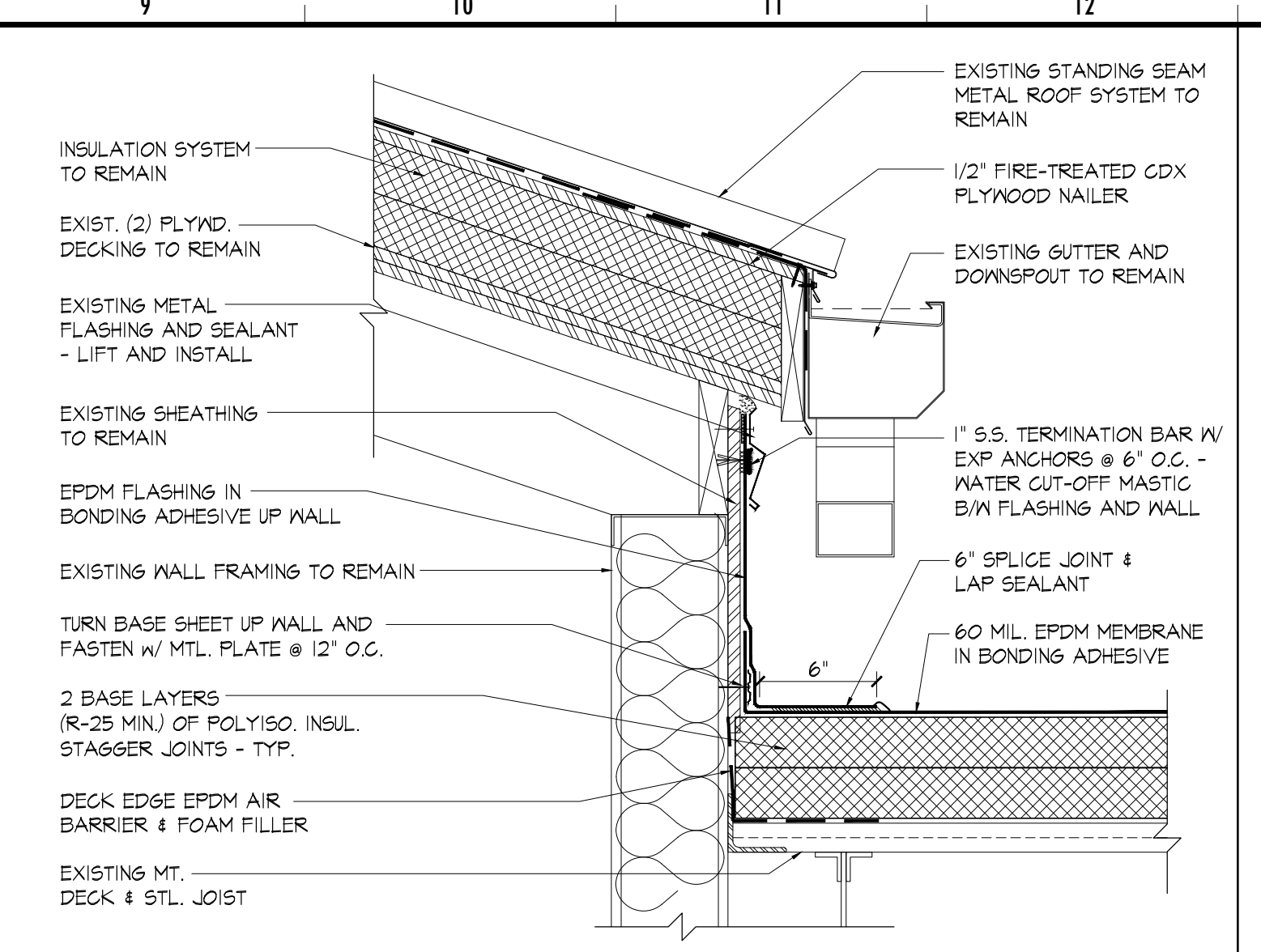
A3.5



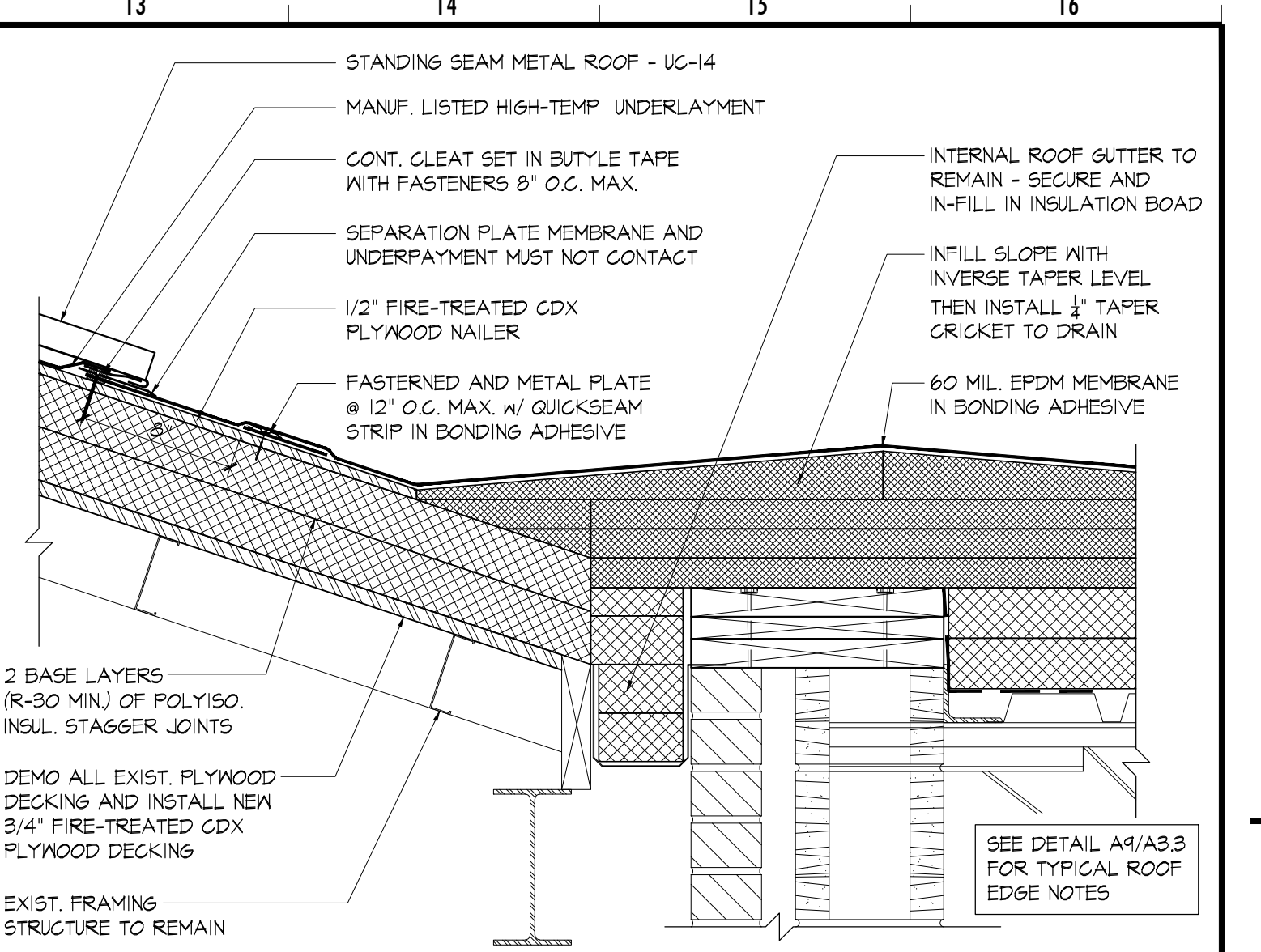
K1 METAL END WALL @ GABLE PARAPET
22009-DETAILS 1 1/2" = 1'-0"



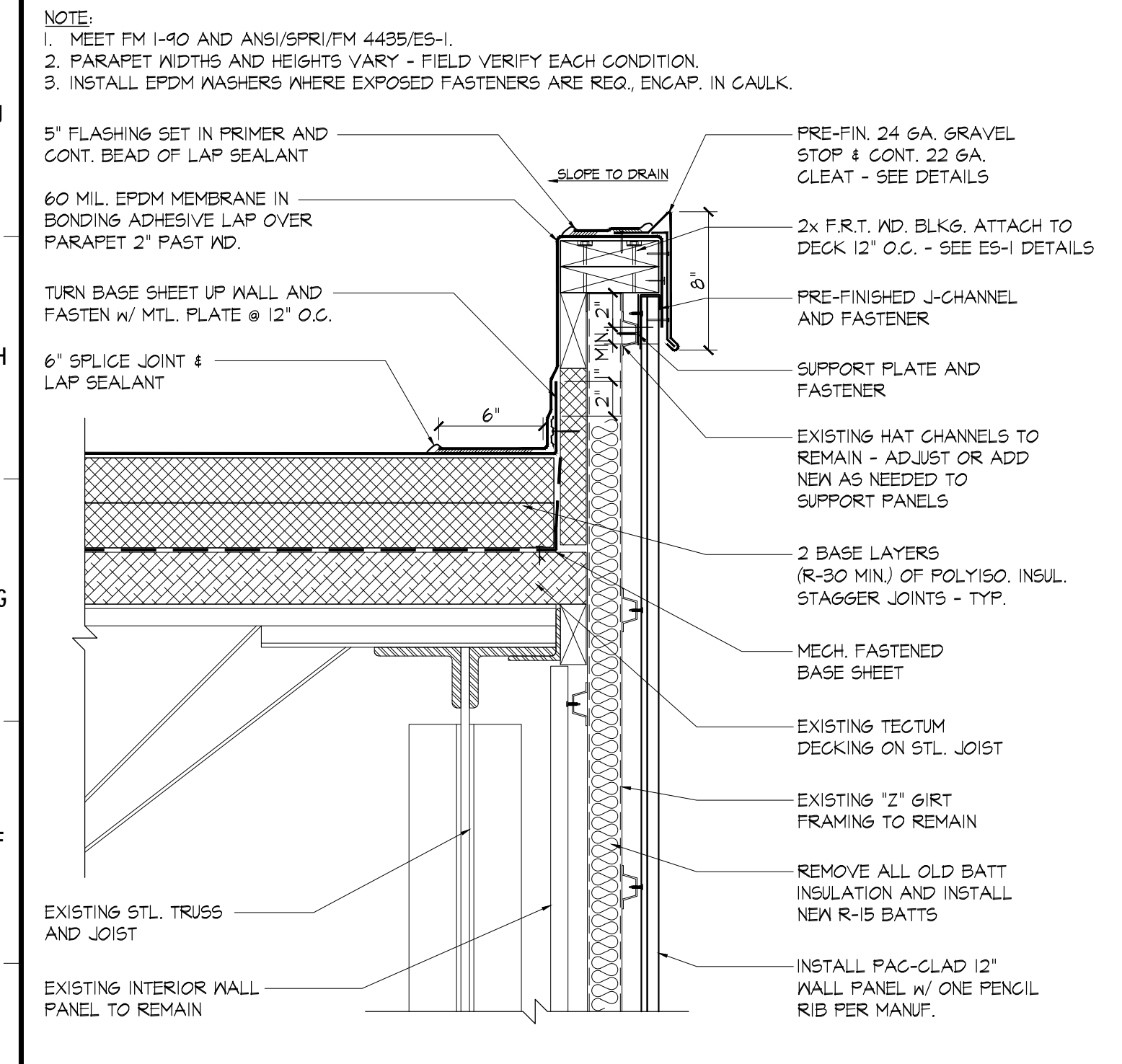
K5 METAL END WALL @ ROOF LINE
22009-DETAILS 1 1/2" = 1'-0"



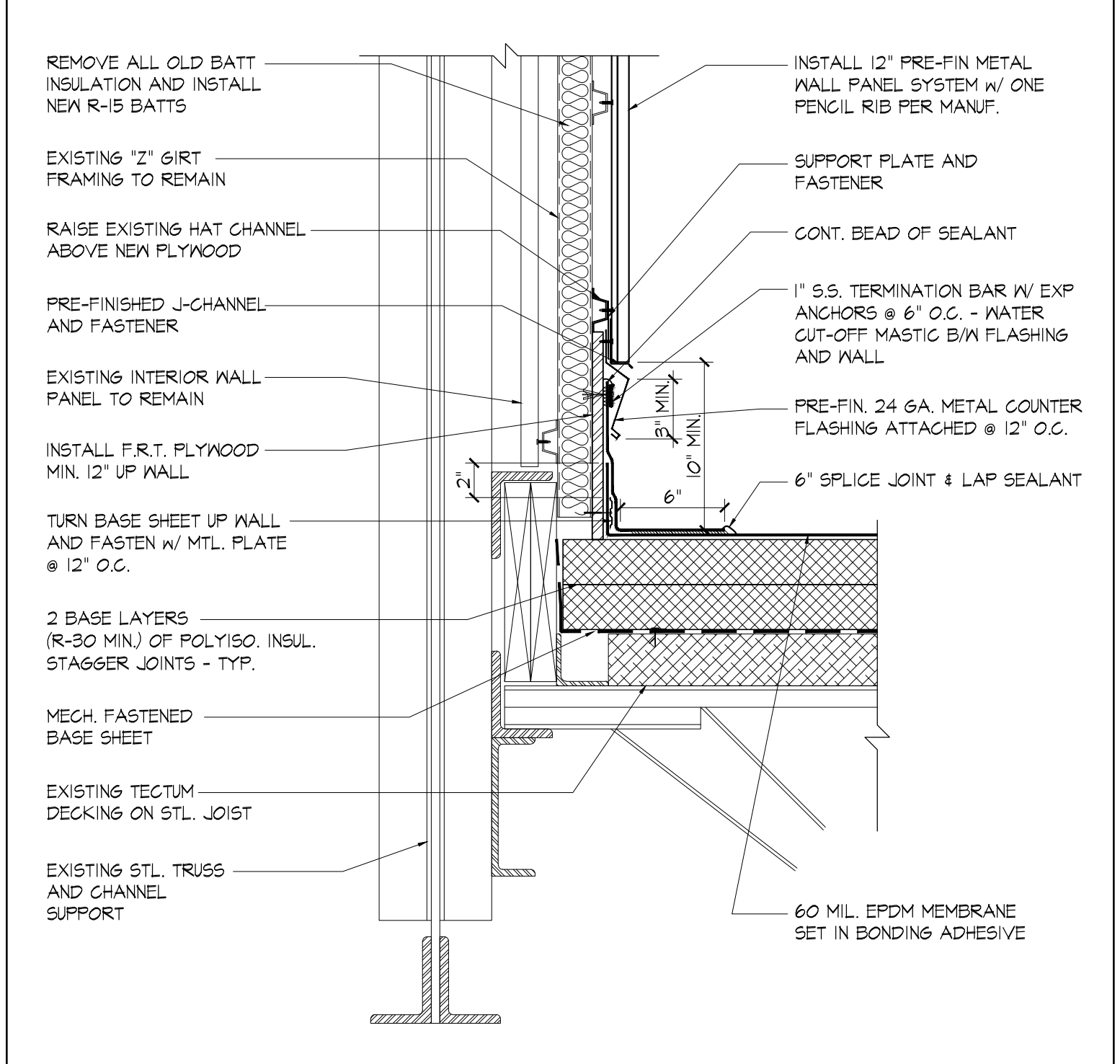
K9 GABLE ROOF GUTTER SIDE TIE-IN
22009-DETAILS 1 1/2" = 1'-0"



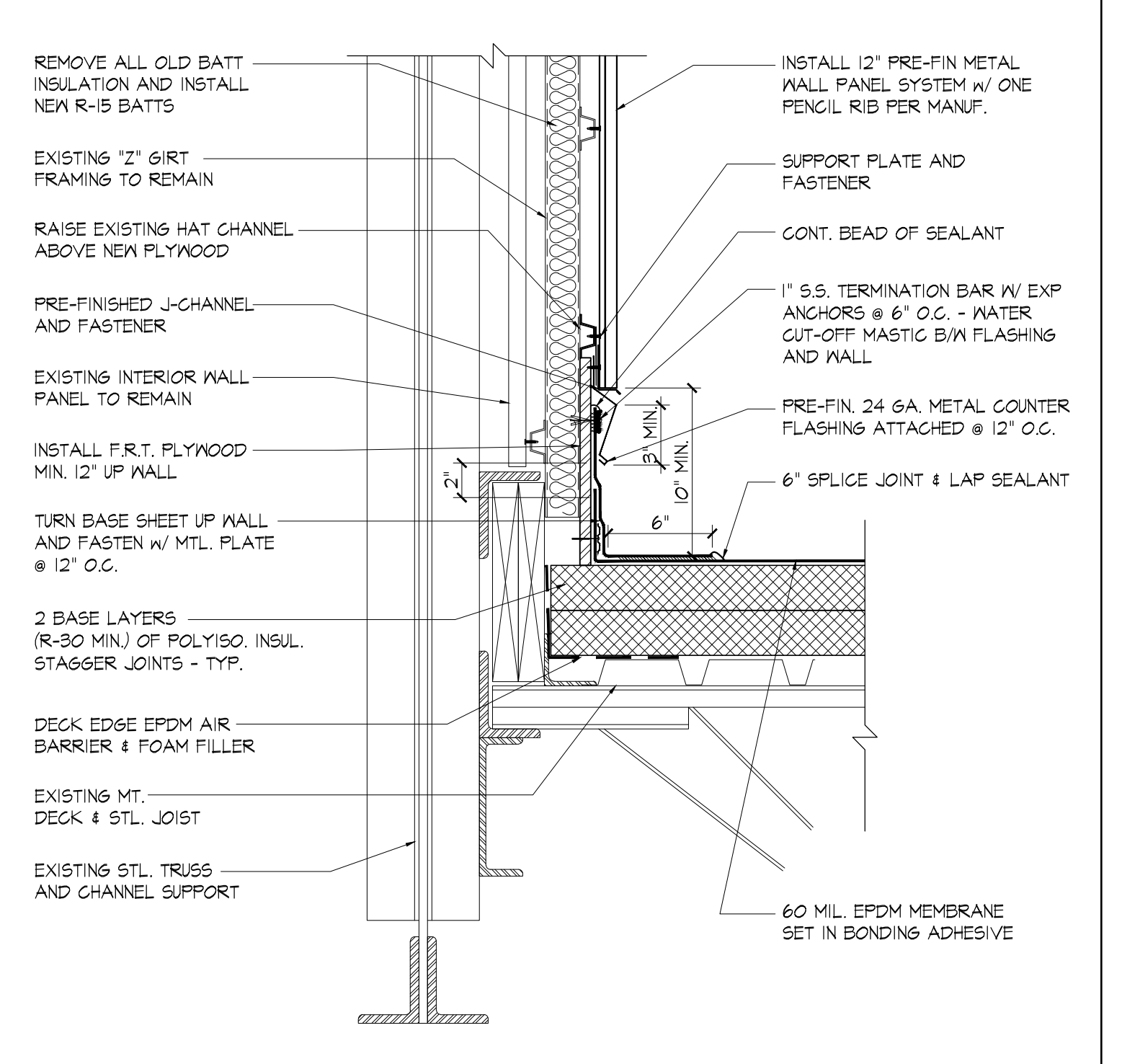
K13 CAFE ROOF @ CRICKET
22009-DETAILS 1 1/2" = 1'-0"



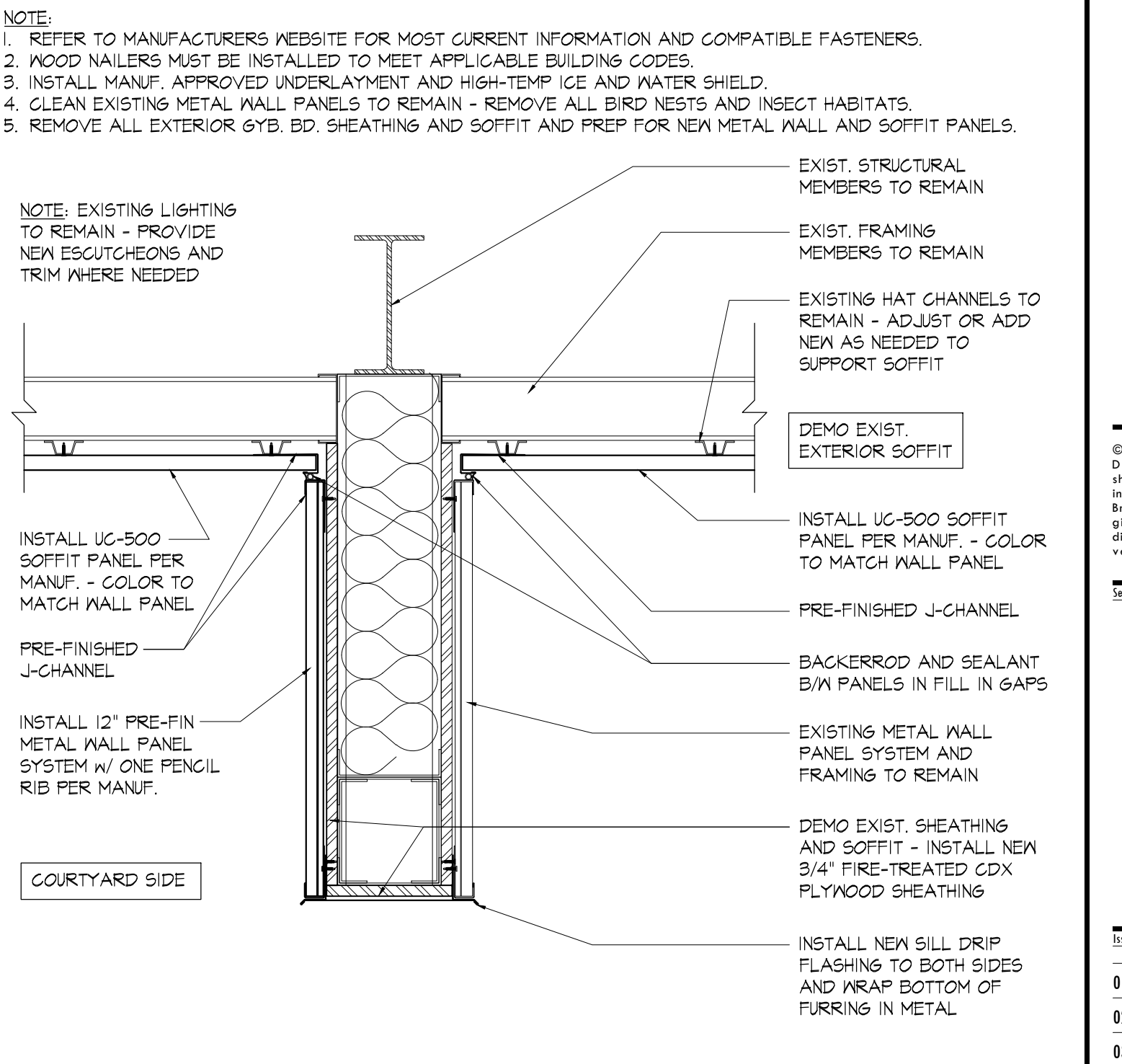
E1 METAL WALL HIGH @ AUDITORIUM
22009-DETAILS 1 1/2" = 1'-0"



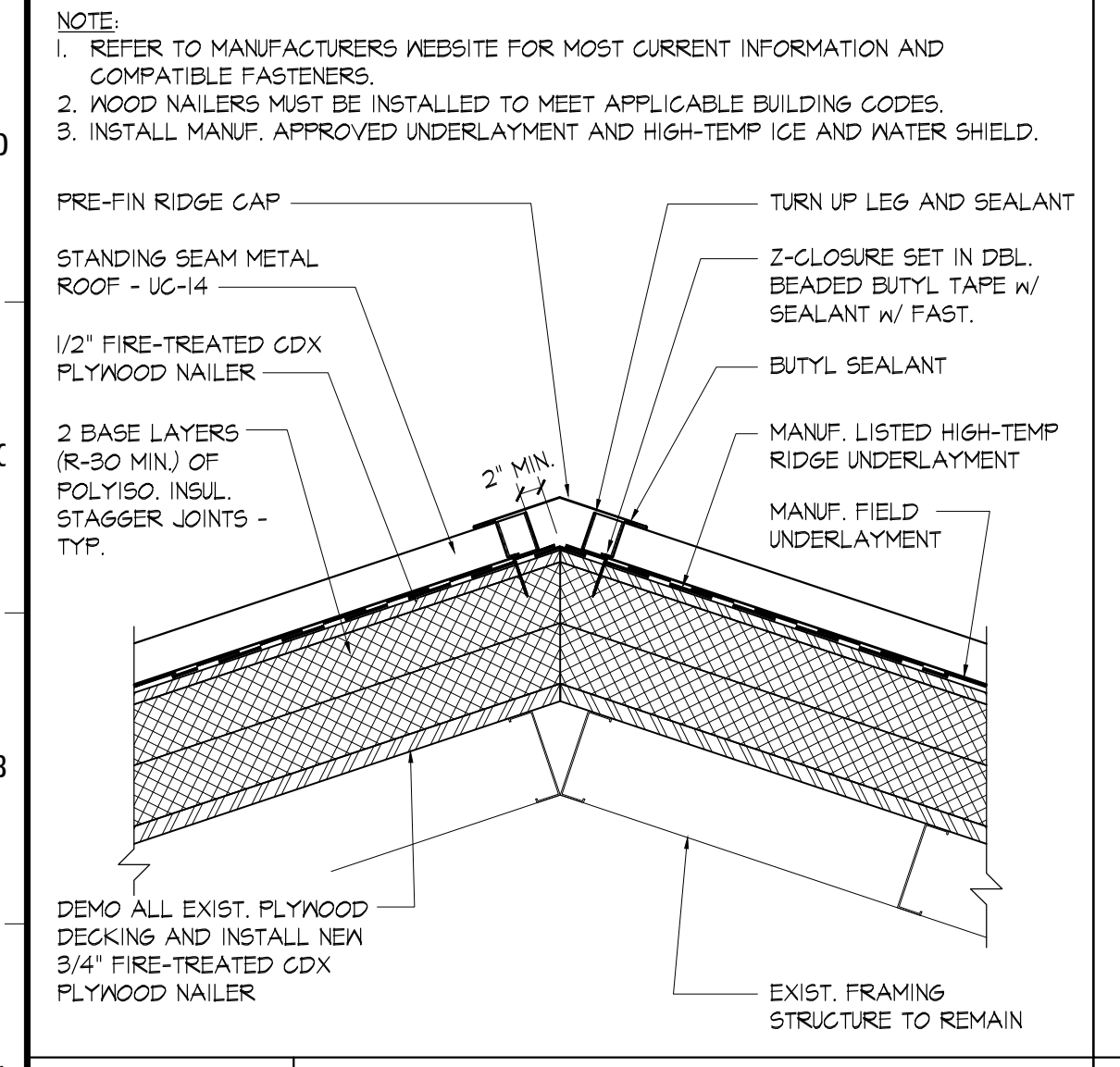
E5 METAL WALL LOW @ AUDITORIUM
22009-DETAILS 1 1/2" = 1'-0"



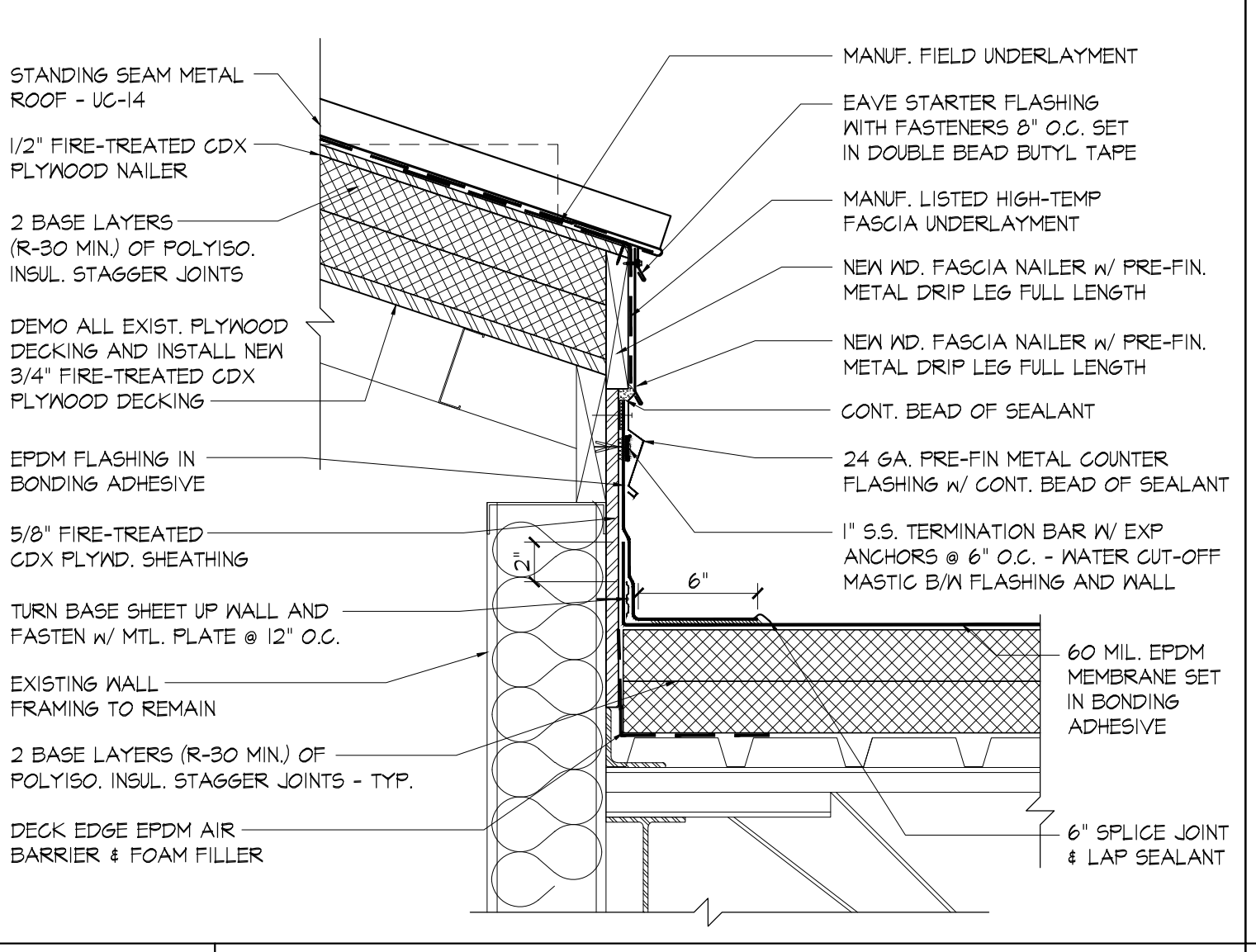
E9 METAL WALL LOW @ AUDITORIUM
22009-DETAILS 1 1/2" = 1'-0"



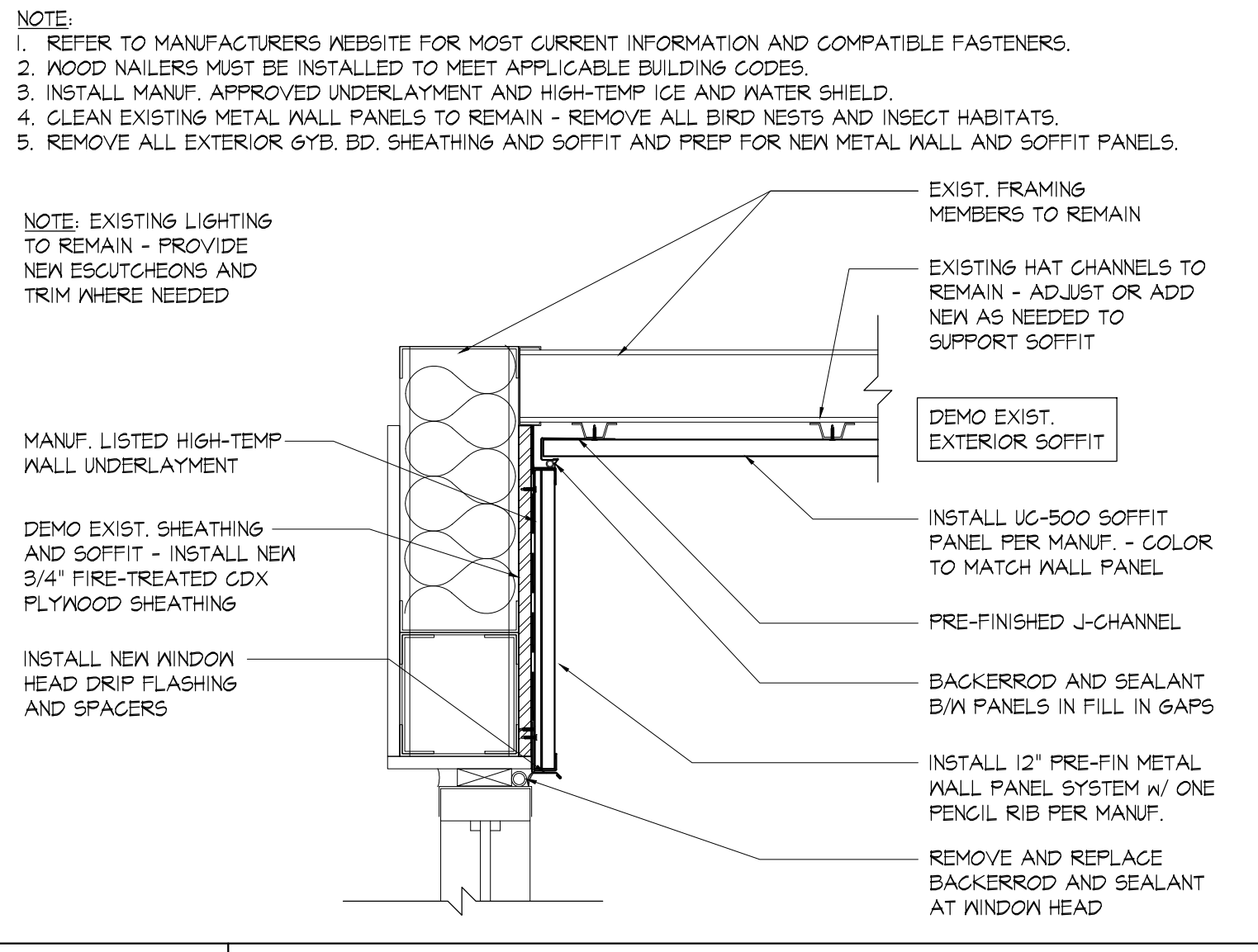
E13 FURRDOWN AND CAFE SOFFIT
22009-DETAILS 1 1/2" = 1'-0"



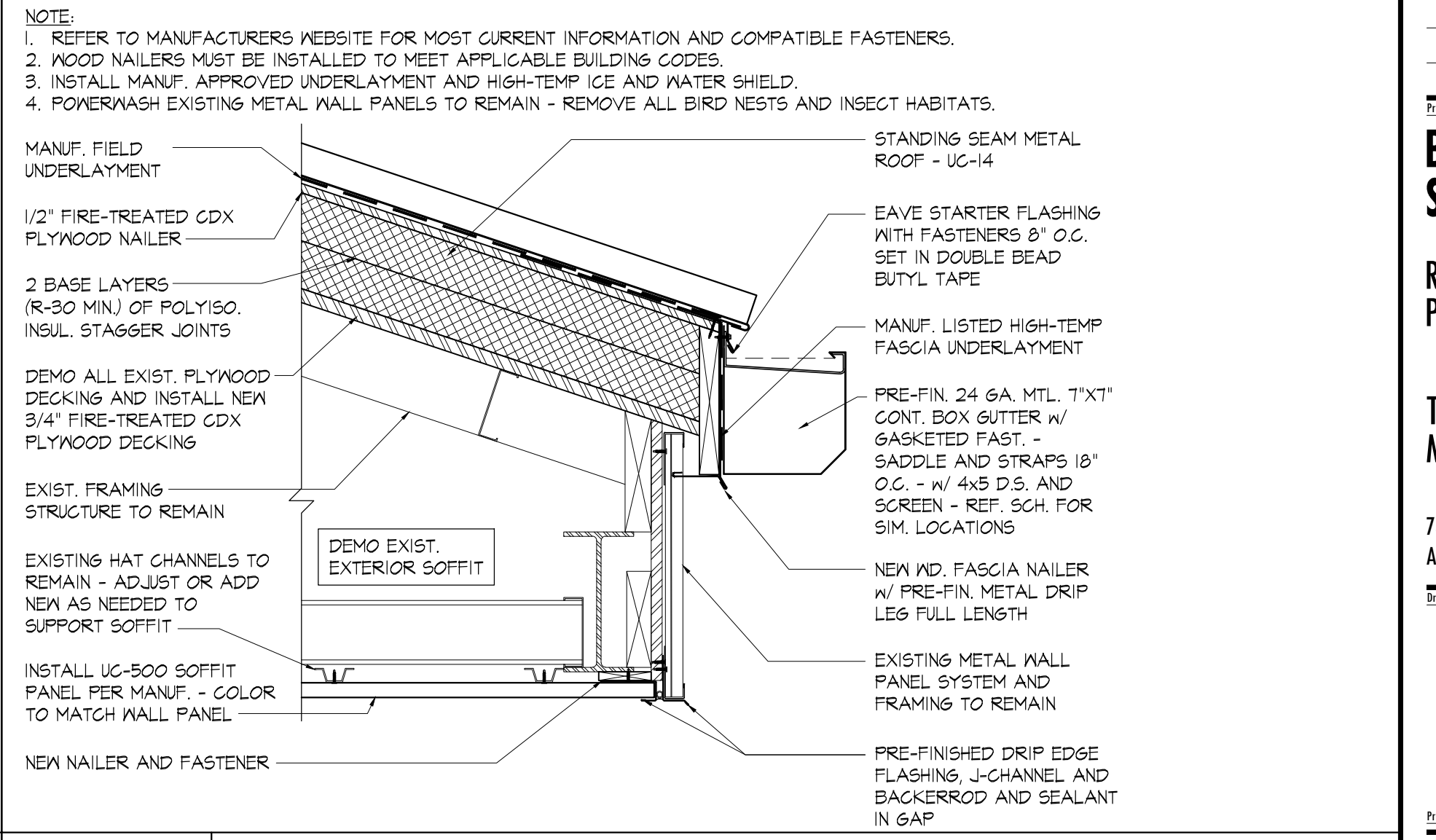
A1 CAFE ROOF @ RIDGE
22009-DETAILS 1 1/2" = 1'-0"



A4 CAFE ROOF @ LOWER ROOF
22009-DETAILS 1 1/2" = 1'-0"



A8 CAFE SOFFIT @ COURTYARD WALL
22009-DETAILS 1 1/2" = 1'-0"

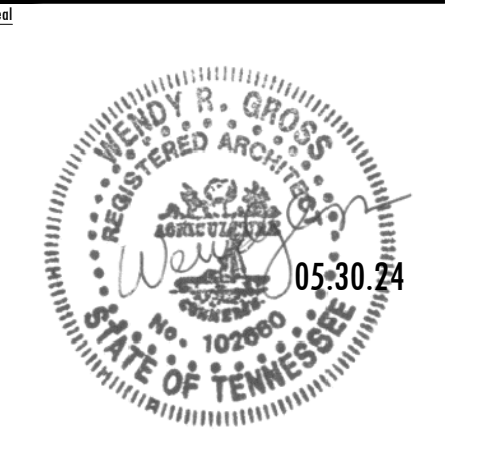


A12 CAFE ROOF @ GUTTER
22009-DETAILS 1 1/2" = 1'-0"

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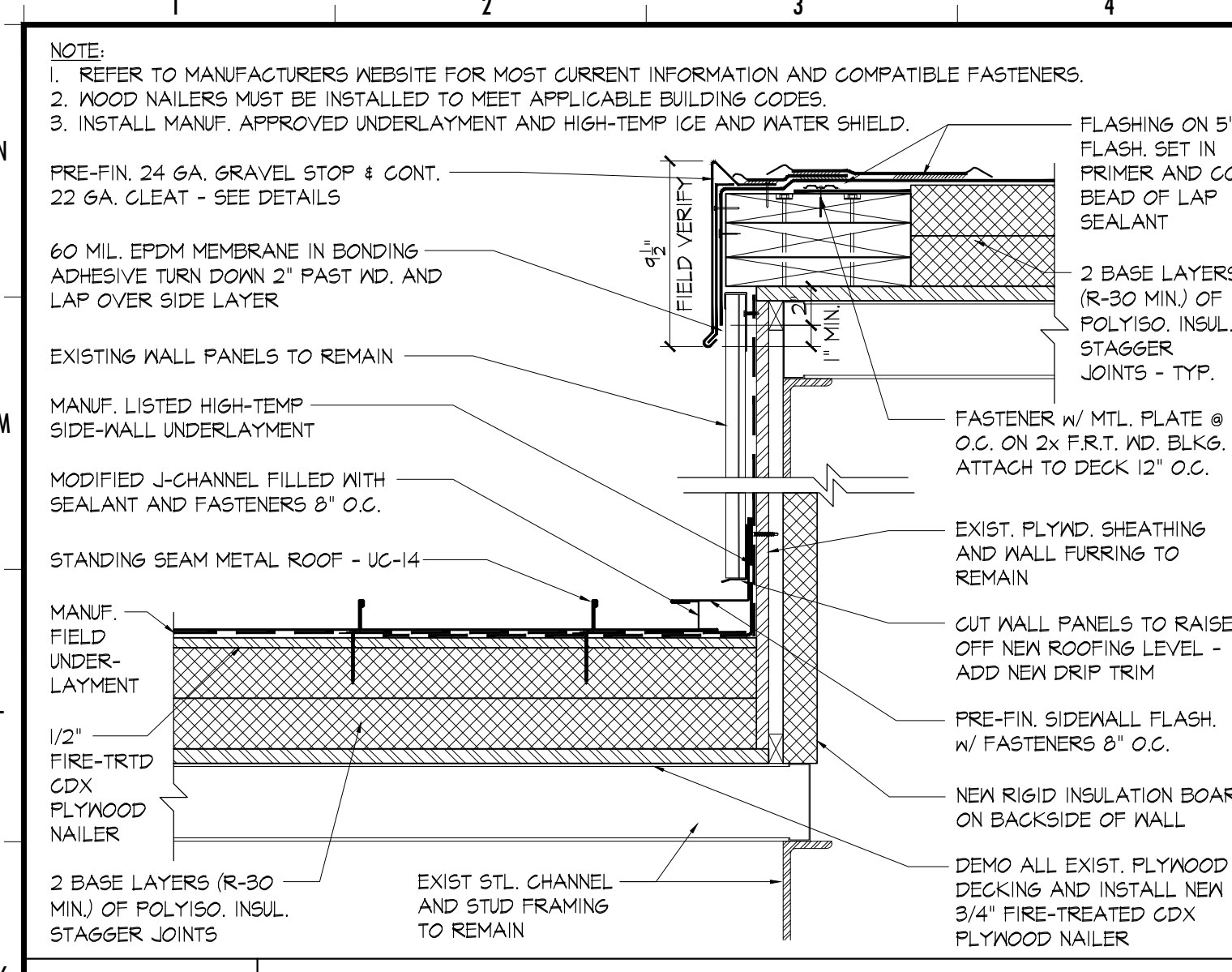
Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
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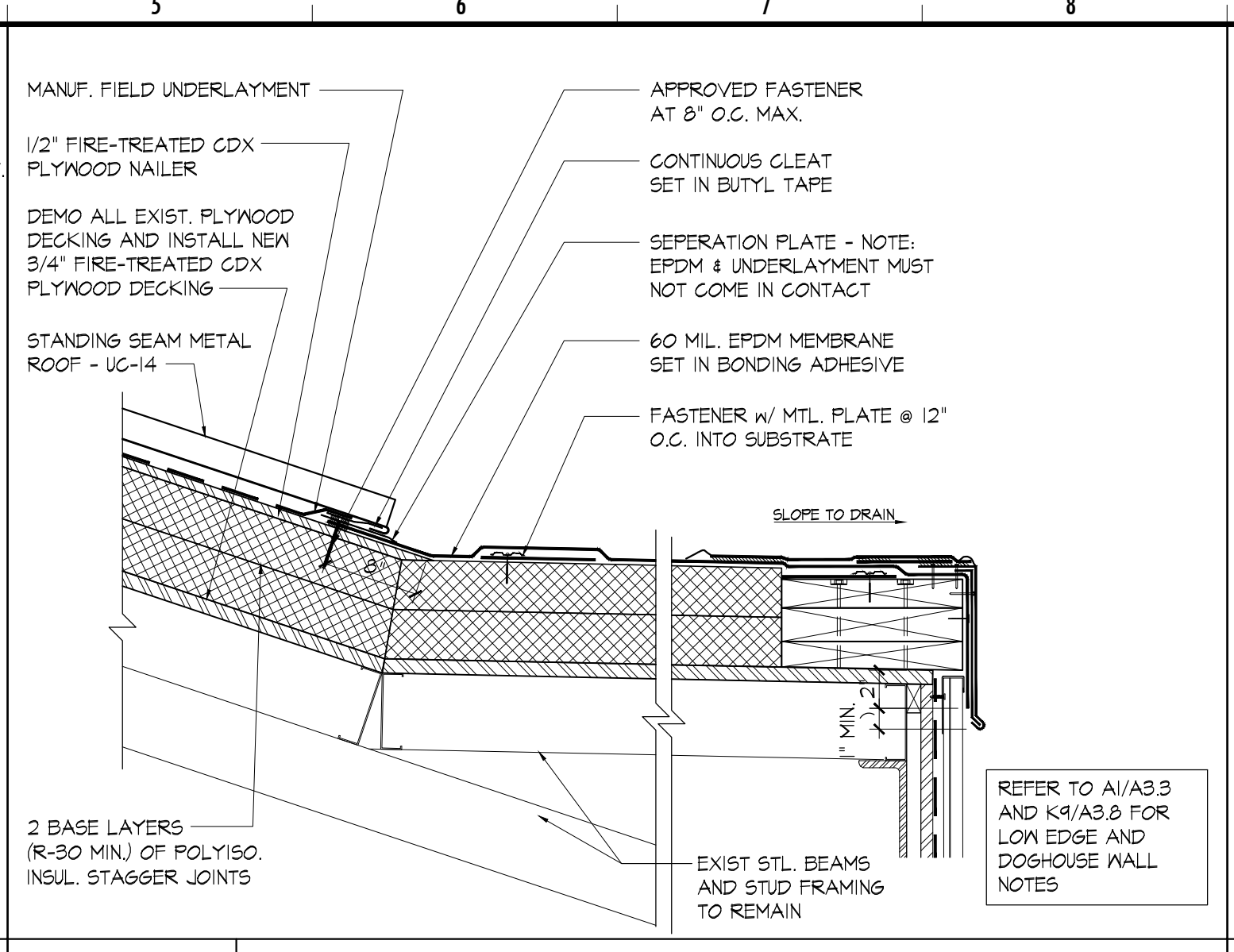
Bolton High School
Roof Replacement Package 2
TFM: 02447, 02447-A
MSCS: 2023-0607
7323 Brunswick Rd
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Project Name
Drawing Title
Project No. 22009 Date 05.30.24

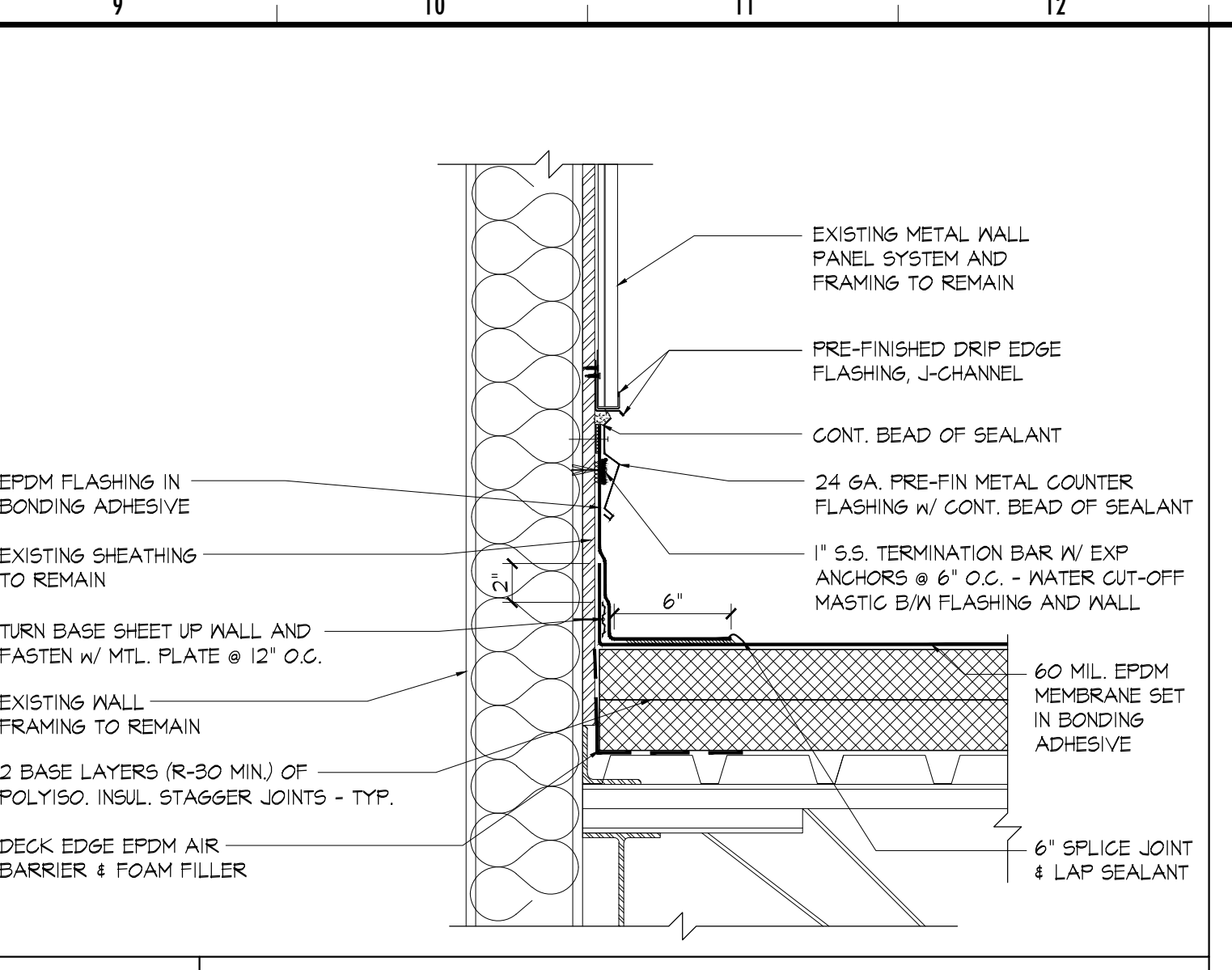
A3.7



K1 DOGHOUSE @ SIDEWALL
22009-DETAILS 1 1/2" = 1'-0"



K5 DOGHOUSE @ SLOPE ROOF
22009-DETAILS 1 1/2" = 1'-0"

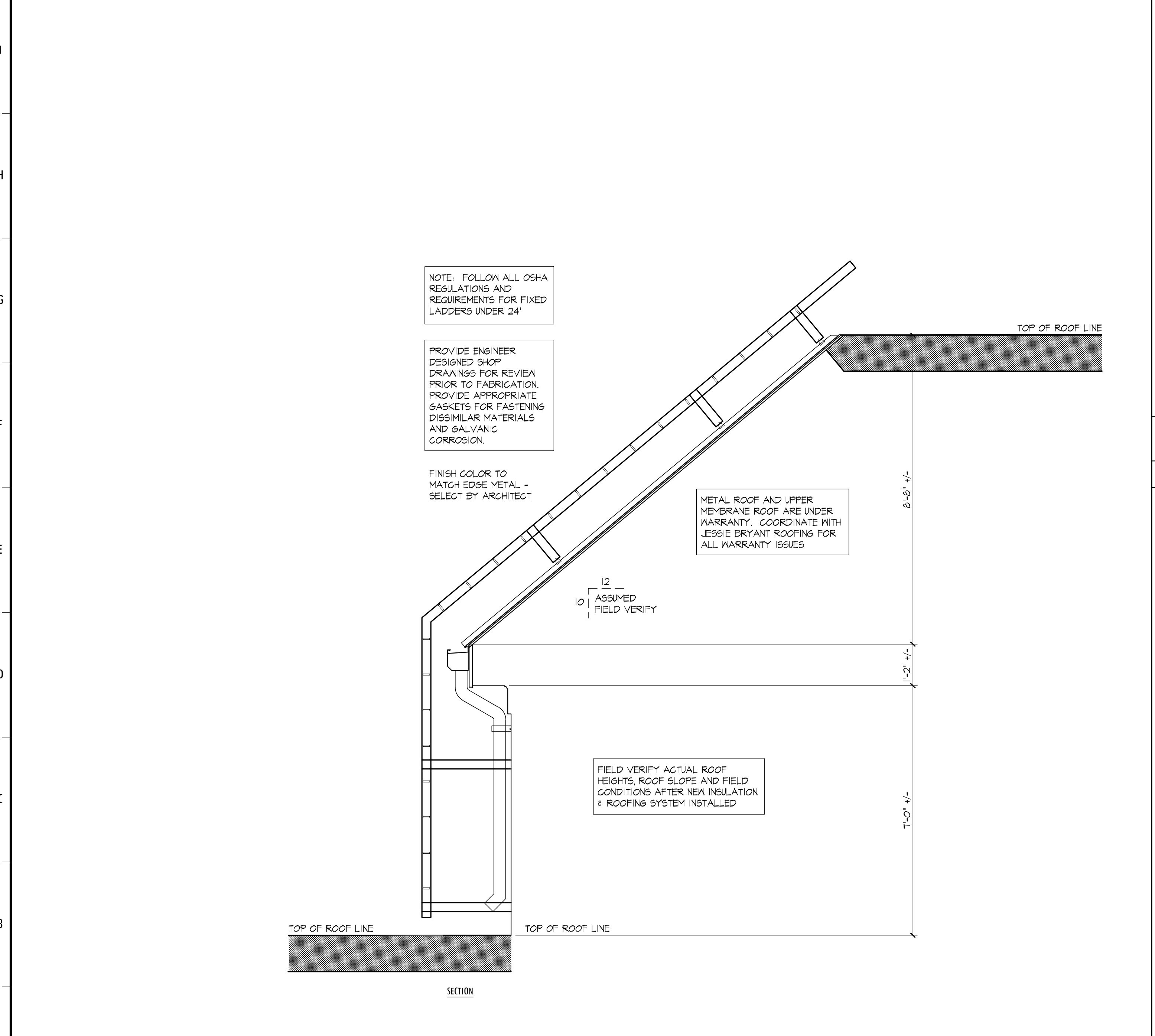


K9 DOGHOUSE @ LOW ROOF
22009-DETAILS 1 1/2" = 1'-0"

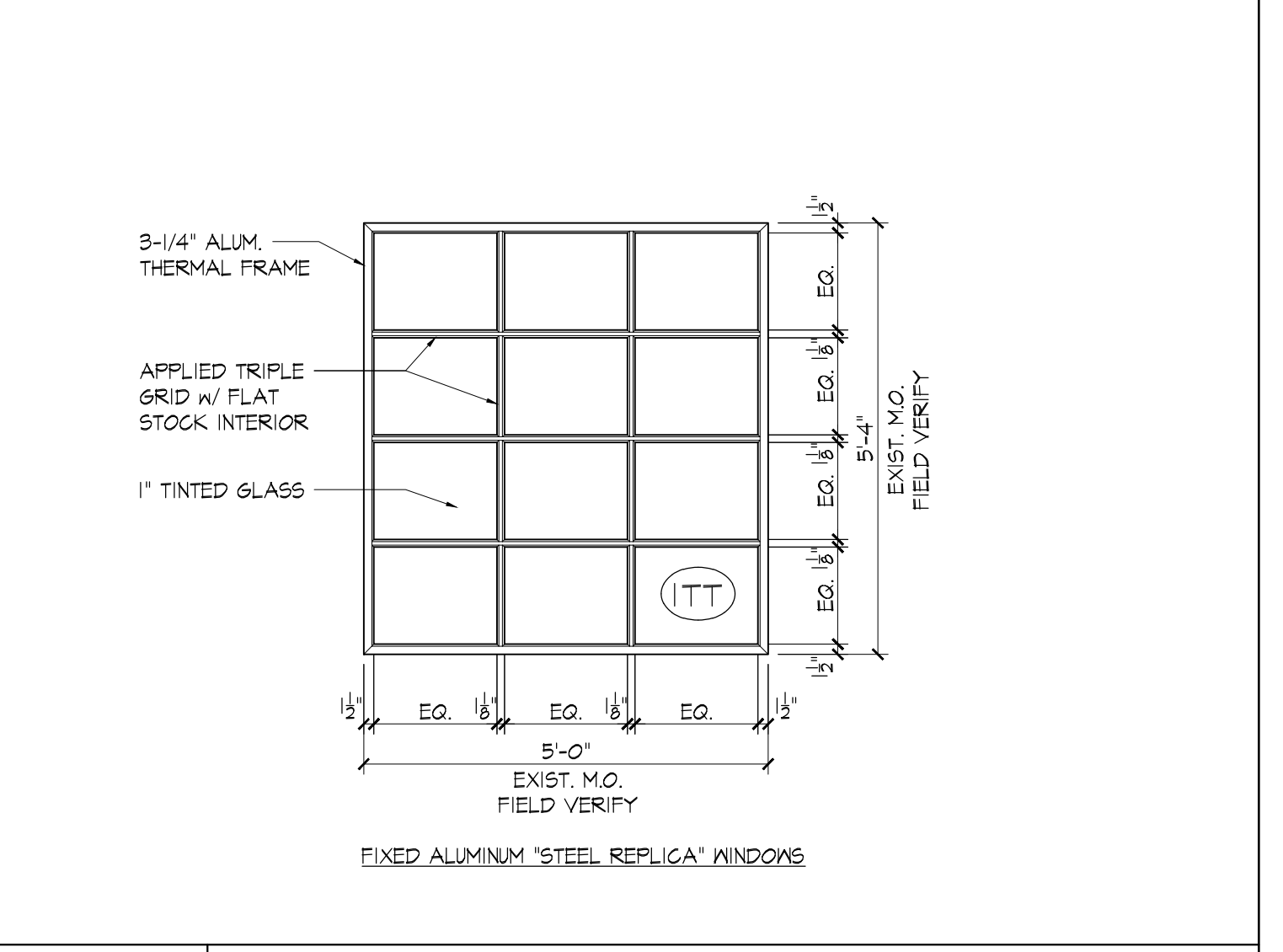
GLAZING TYPES
C 1/4" CLEAR
T 1/4" CLEAR TEMPERED
ITT 1" INSULATED / TEMPERED / TINTED (EXTERIOR LITE TINTED)

TEMPERING NOTES
PROVIDE TEMPERED GLASS IN THE FOLLOWING LOCATIONS:
A. ALL WINDOWS LOCATED WITHIN 24" HORIZONTALLY OF DOOR AND LESS THE 60" A.F.F.
B. ALL WINDOWS WITH NET GLAZING AREA GREATER THAN 9 S.F. AND LESS THAN 18" A.F.F., UNLESS INTERRUPTED BY STRUCTURAL HORIZONTAL MEMBER FROM 34"-38" A.F.F.
C. IN ALL TUB AND SHOWER ENCLOSURES.
D. IN ANY WINDOW LOCATED IN AN ENCLOSED STAIRWAY LANDING AND/OR WINDOW LOCATED WITHIN 60" OF THE TOP OR BOTTOM OF A STAIRWAY IF THE BOTTOM OF THE GLAZING IS LESS THAN 60" A.F.F.
E. IN ALL DOORS.

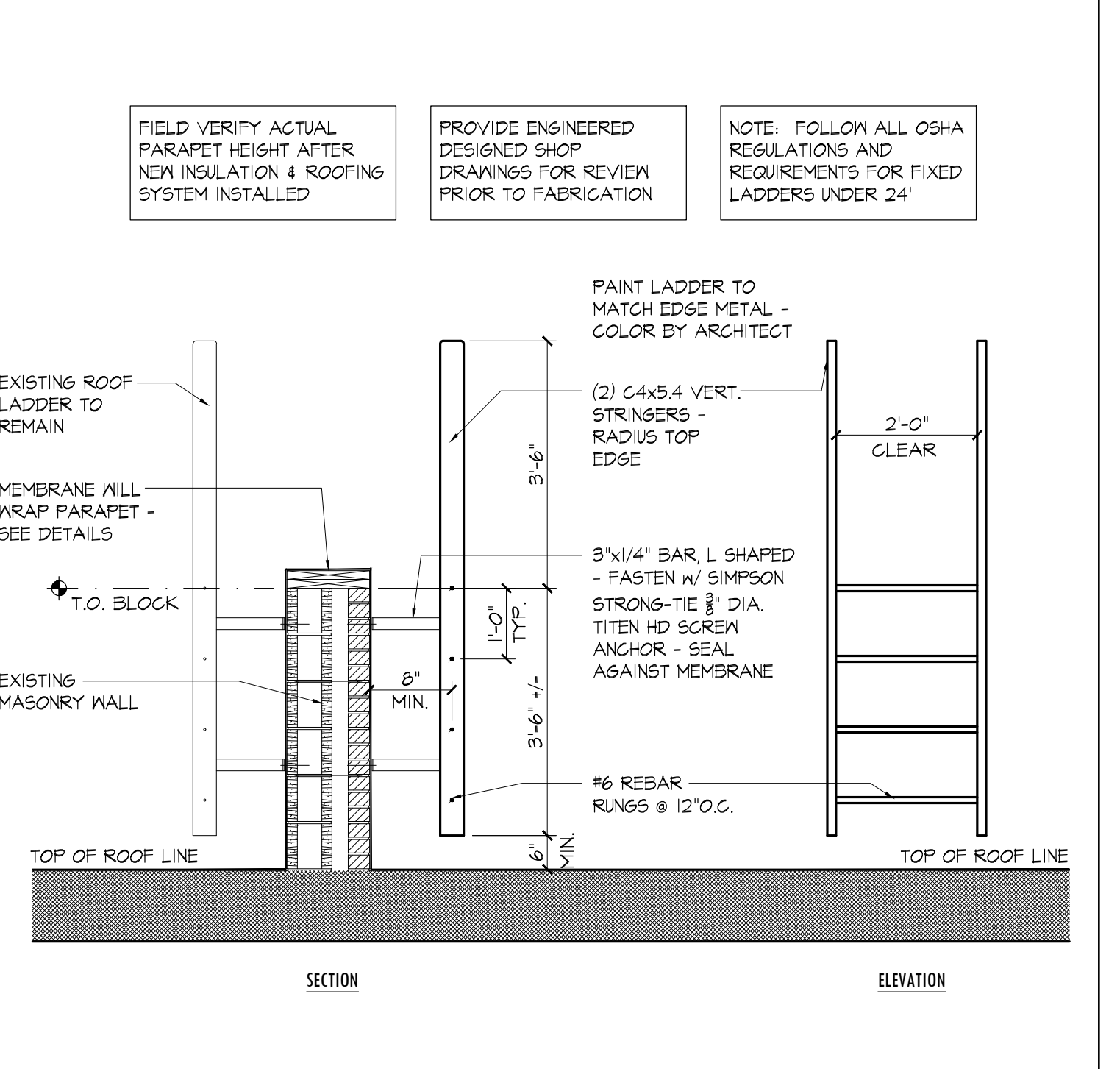
GLAZING NOTES
1. ALL DIMENSION ARE ROUGH OPENING SIZES.
2. CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS, BRICK PATTERNING AND FINISH FLOOR LEVELS PRIOR TO FABRICATION.



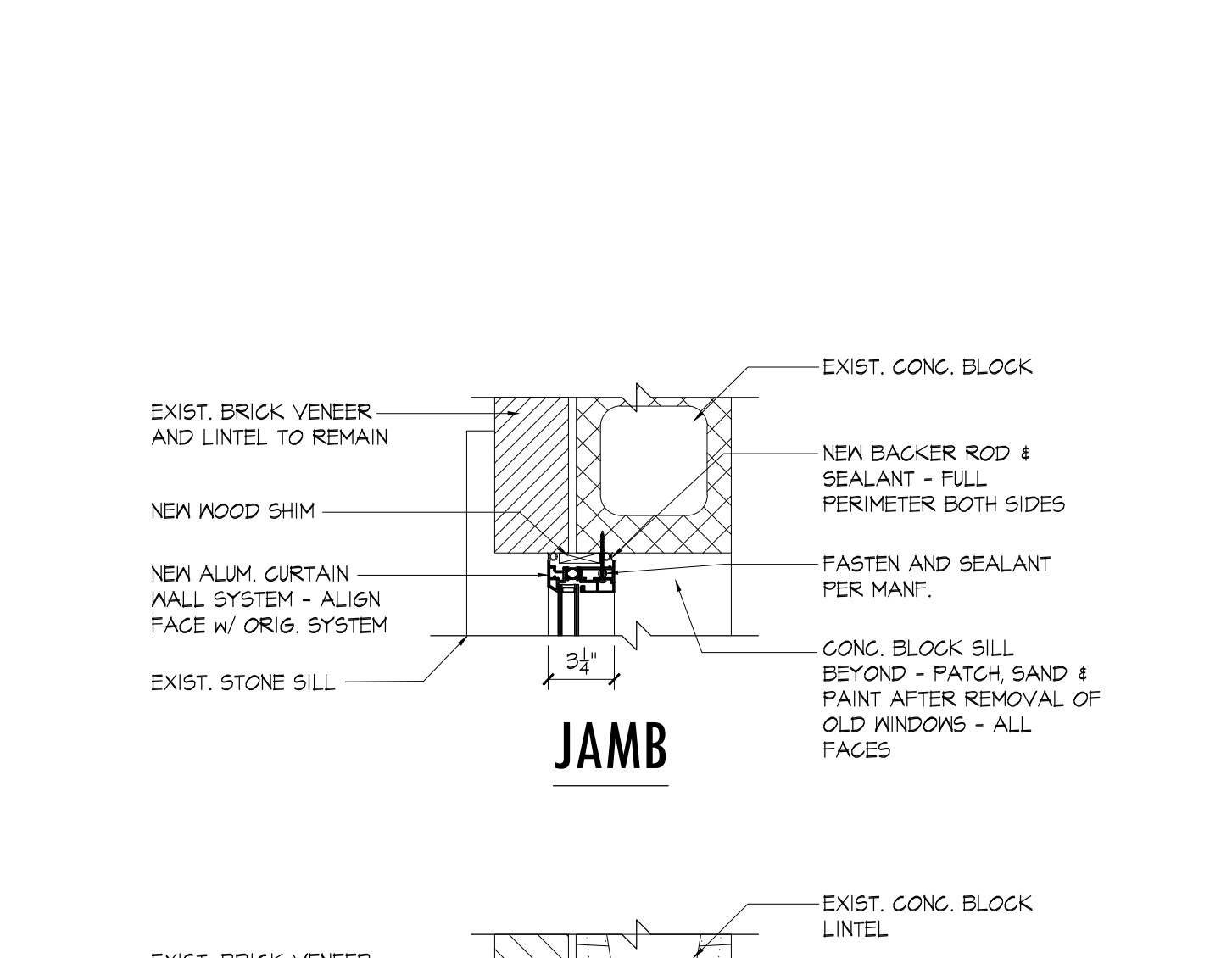
A1 ALUMINUM ROOF LADDER
22009-DETAILS 1/2" = 1'-0" ALT #2



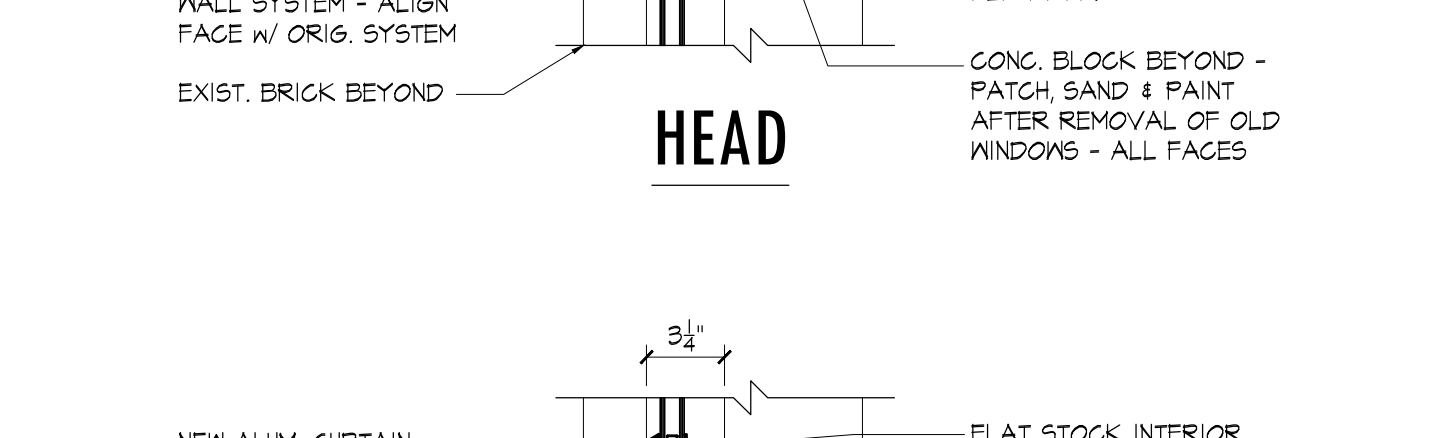
F9 WINDOW TYPE ELEVATION
22009-DETAILS 1/2" = 1'-0" ALT #1



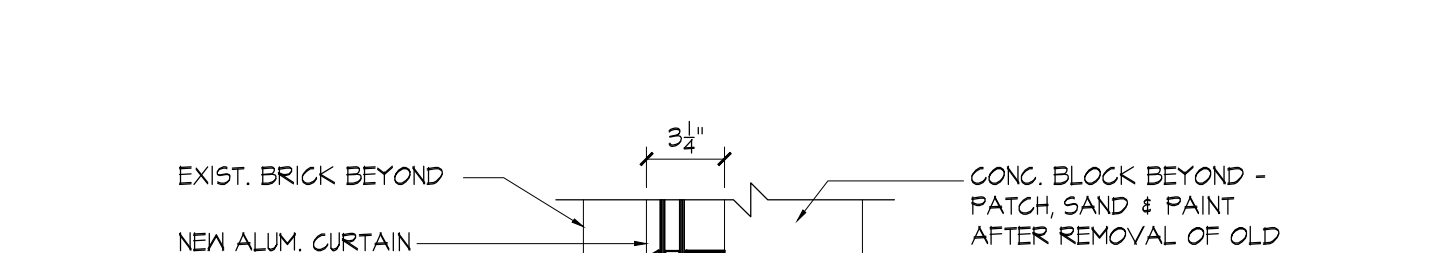
A9 METAL WALL LADDER
22009-DETAILS 1/2" = 1'-0"



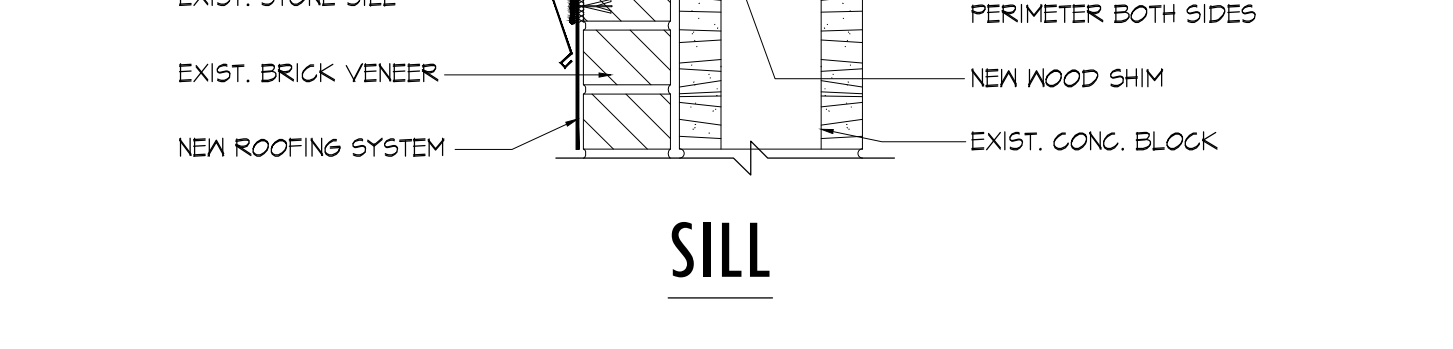
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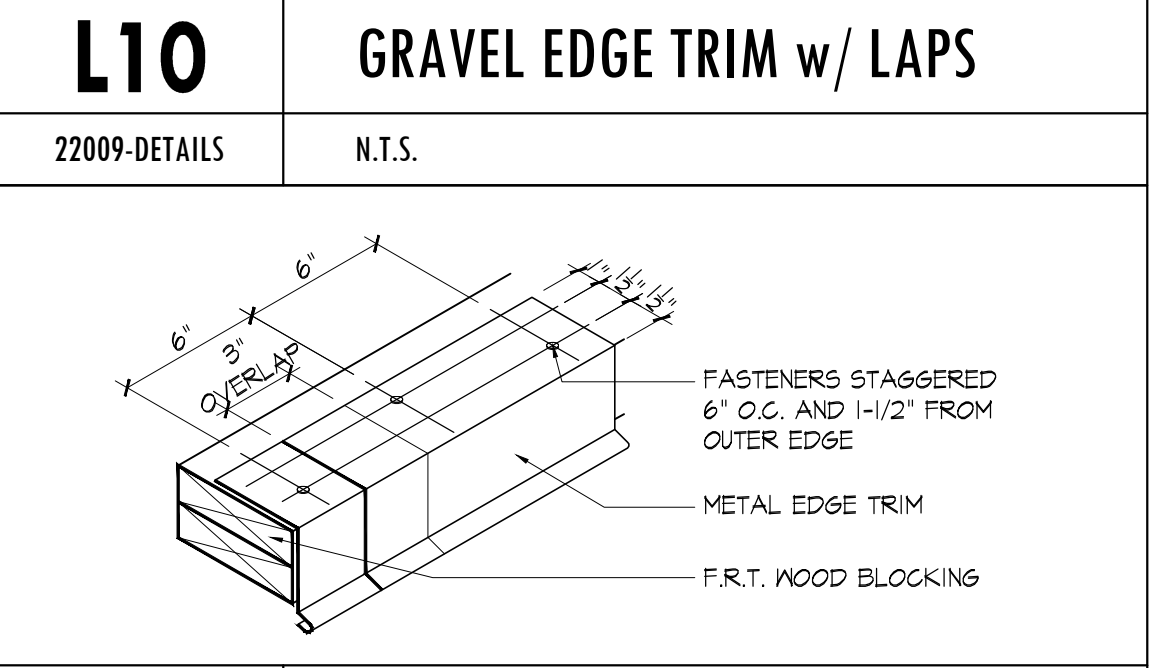
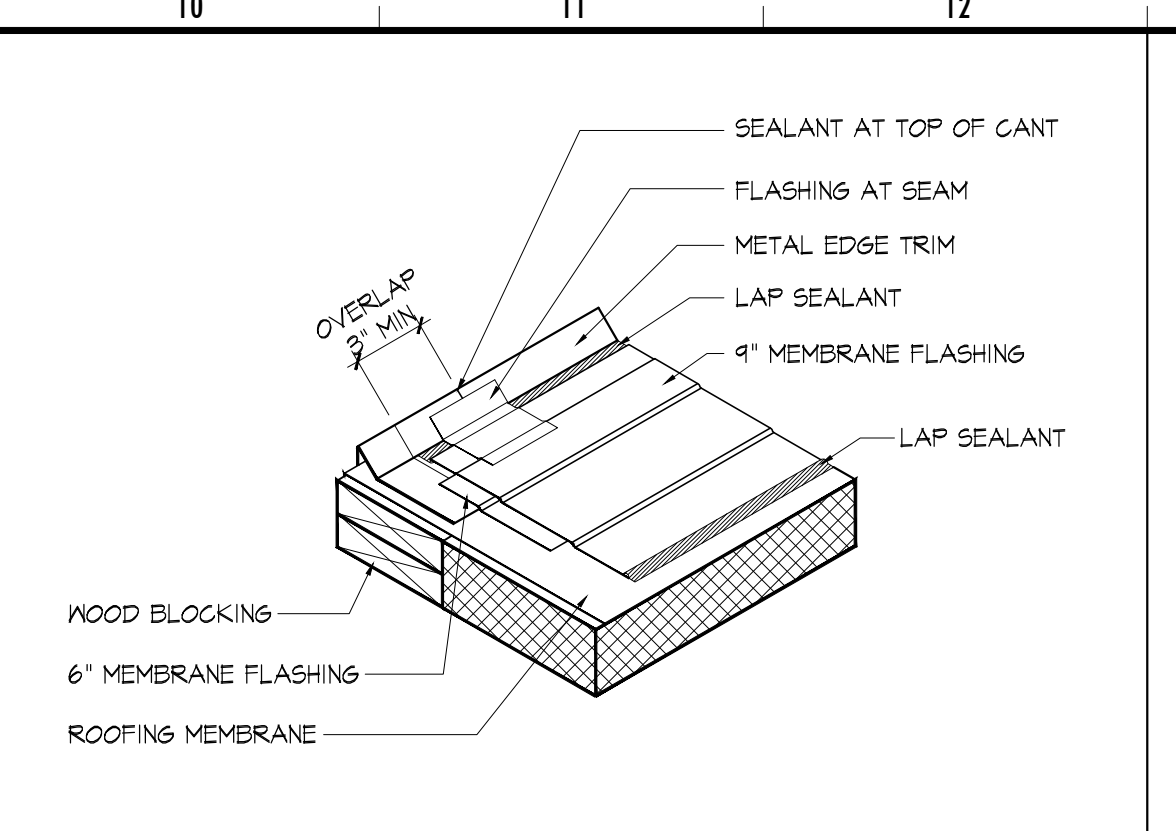
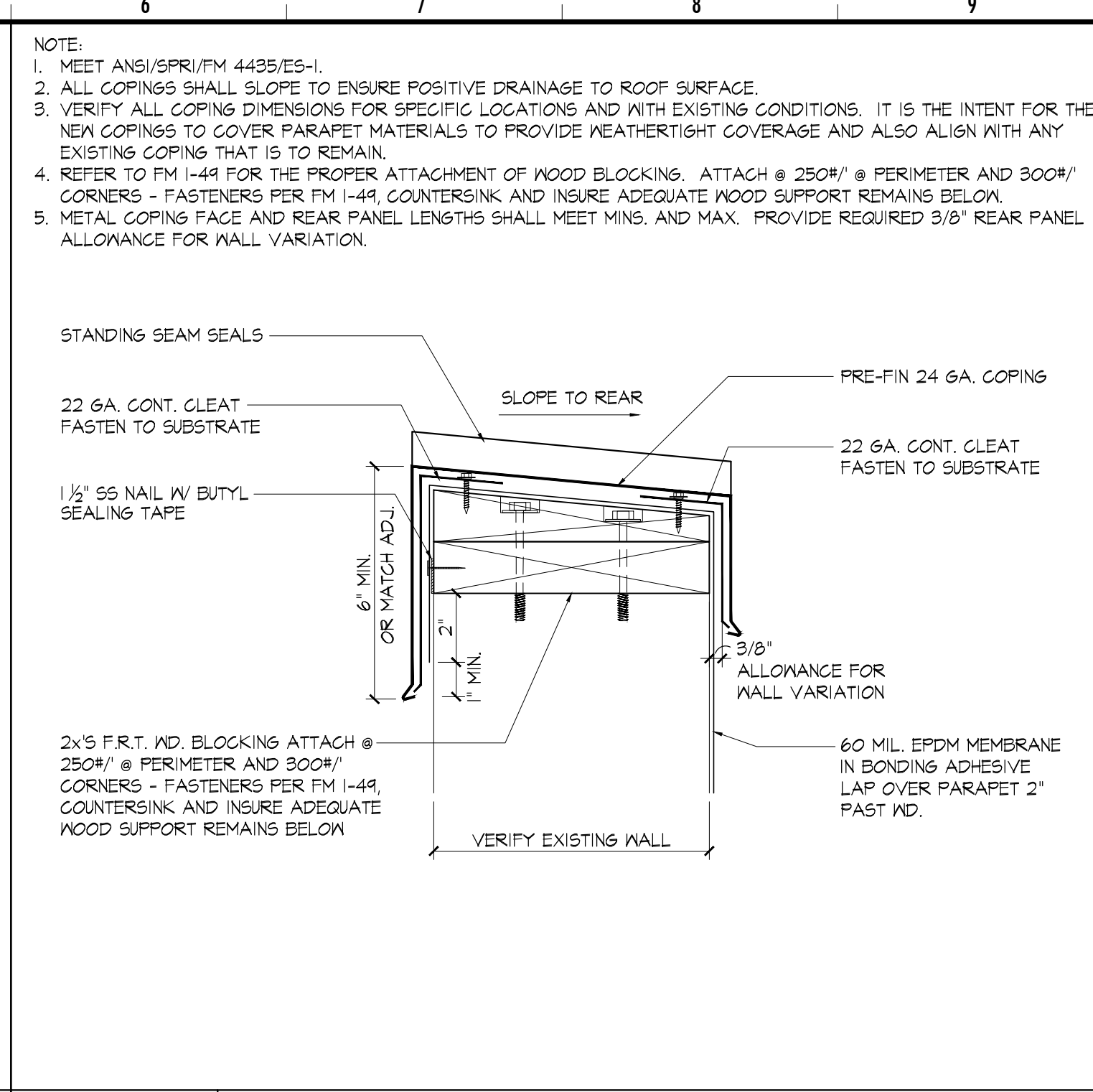
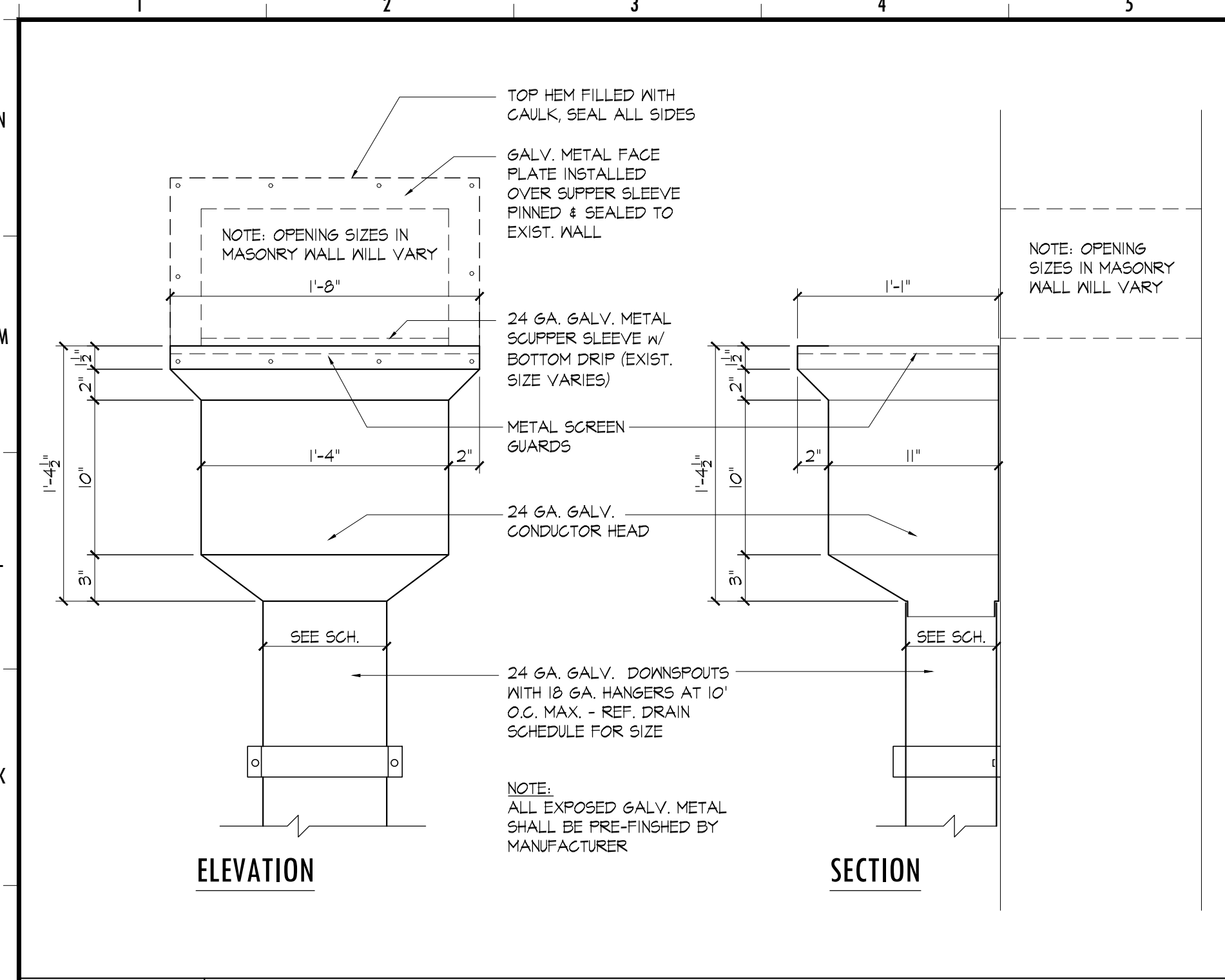


Issues and Revisions

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Bolton High School
Roof Replacement Package 2
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Arlington, Tennessee 38002

ROOF DETAILS
Project No. 22009 Date 05.30.24
A3.8



J1 COLLECTOR HEAD DETAILS

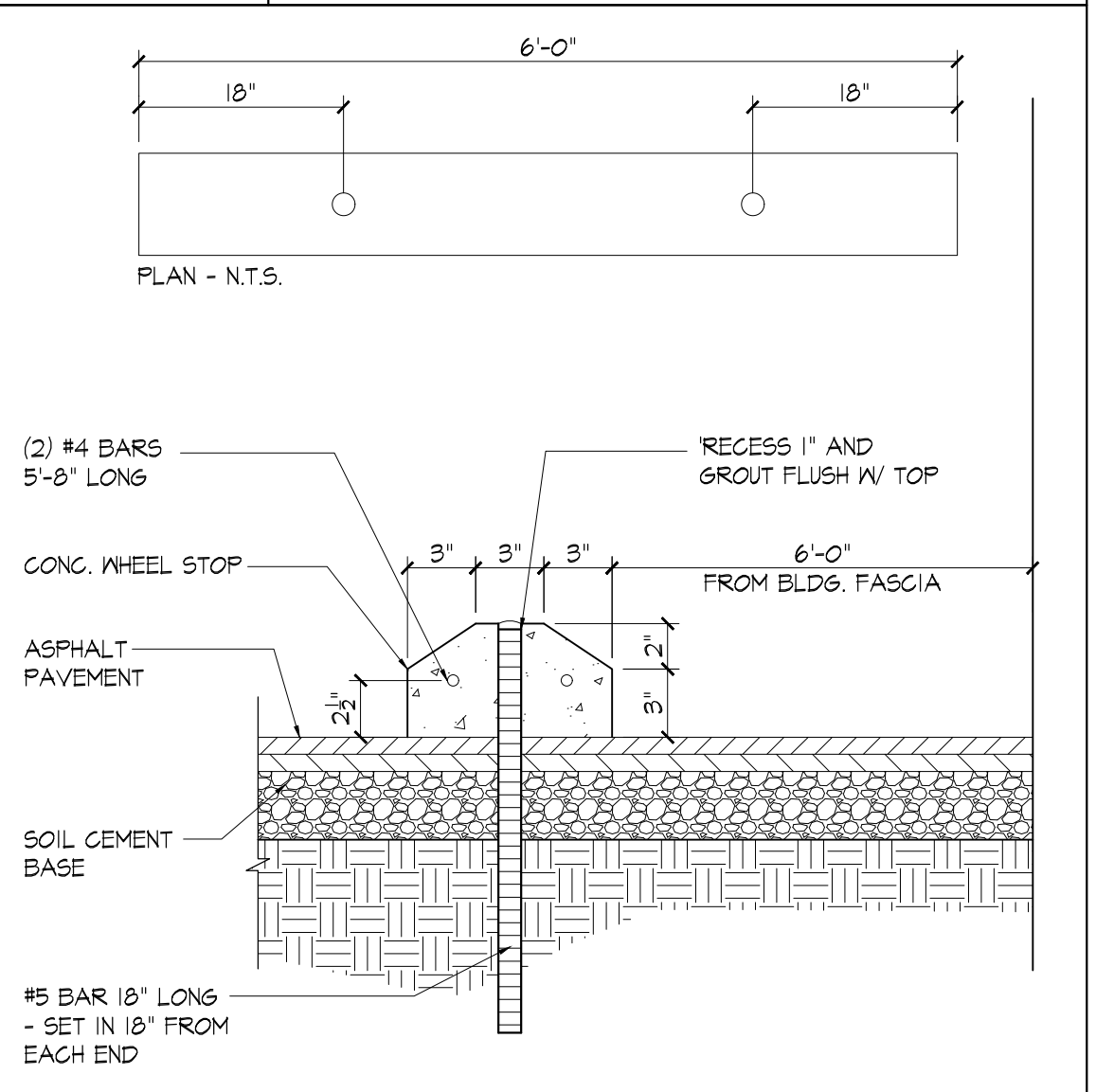
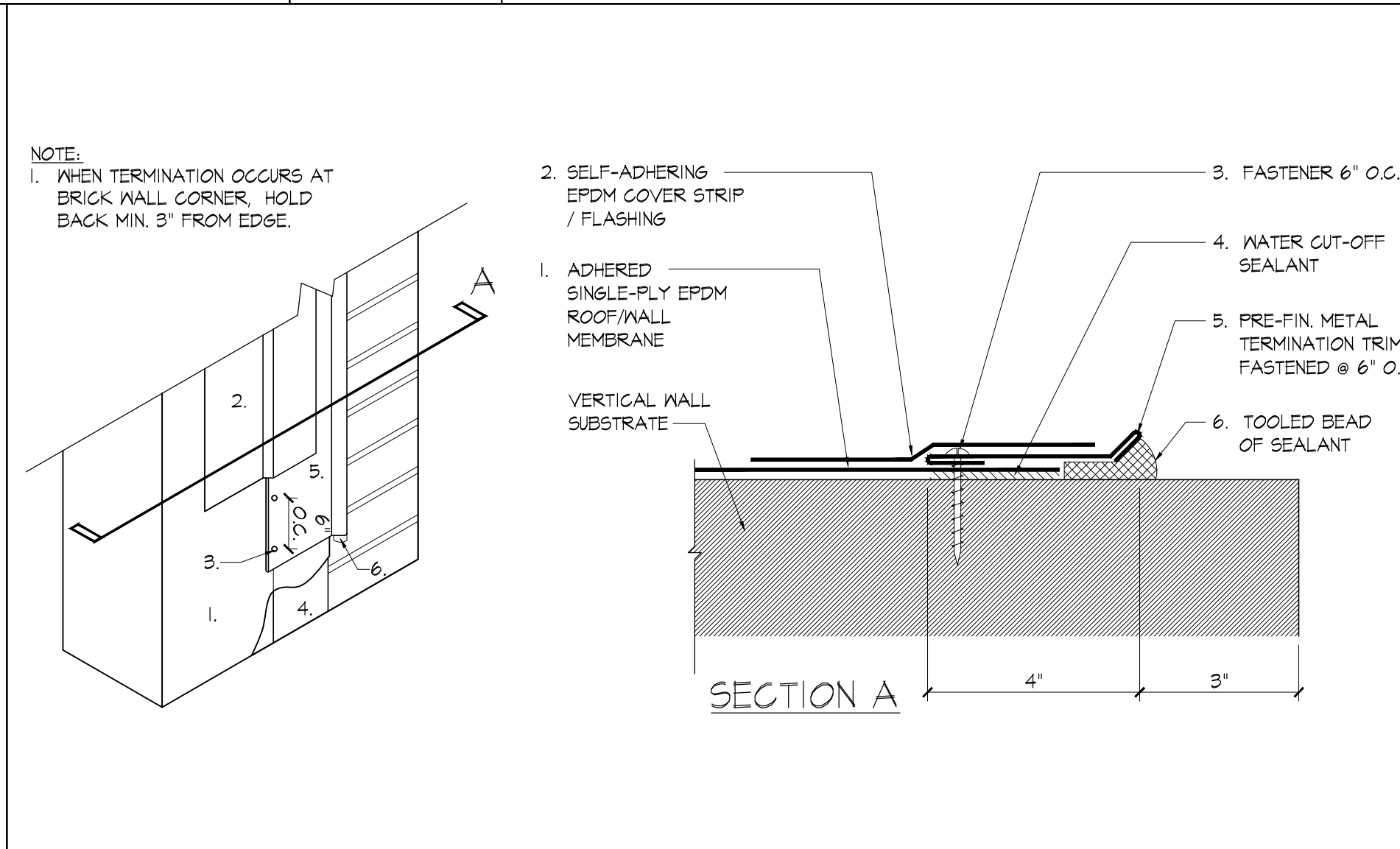
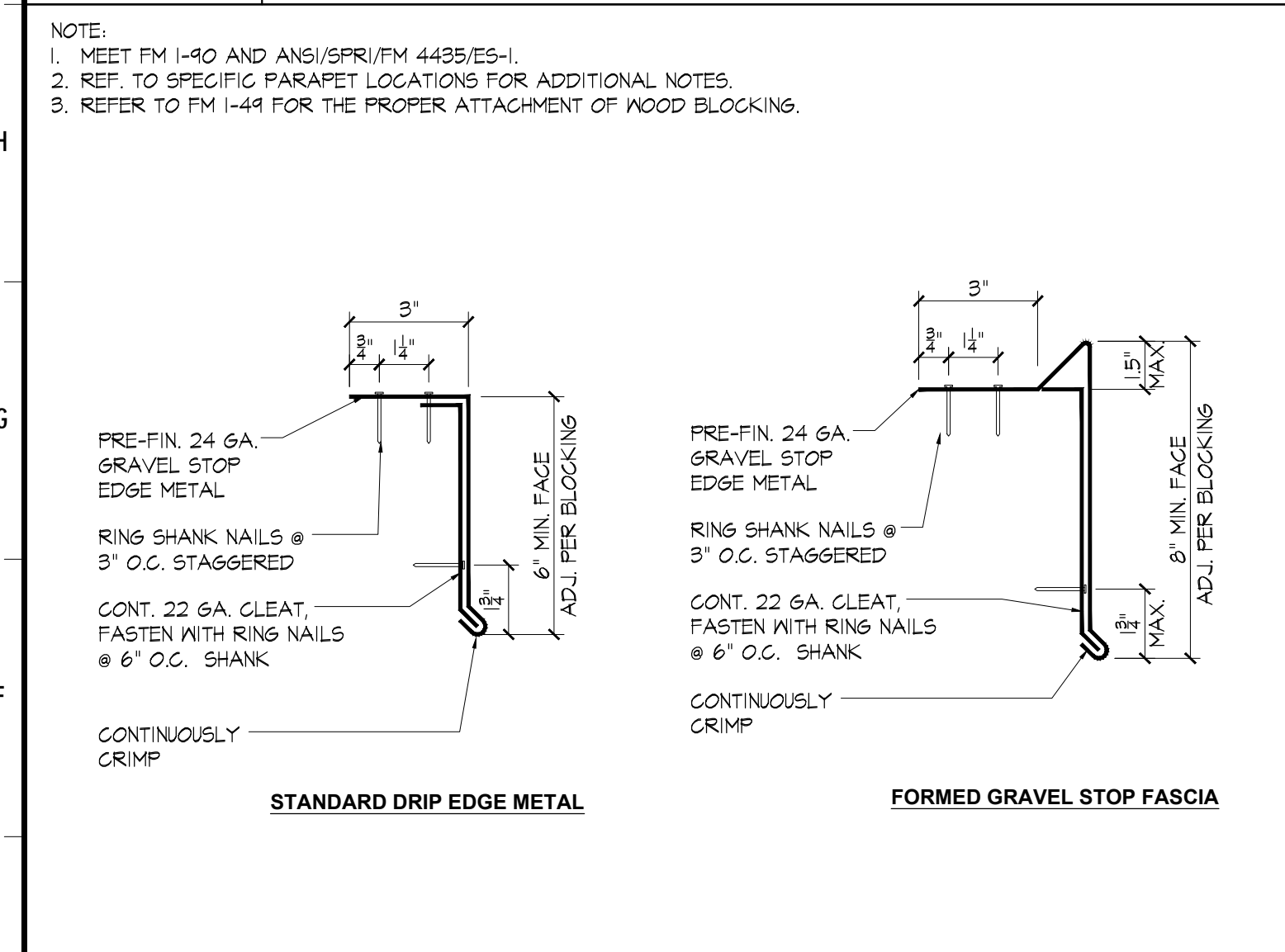
22009-DETAILS 1 1/2" = 1'-0"

J6 METAL EDGE DETAILS

22009-DETAILS 3" = 1'-0"

J10 METAL EDGE FASTENER PATTERN

22009-DETAILS N.T.S.



E1 METAL EDGE DETAILS

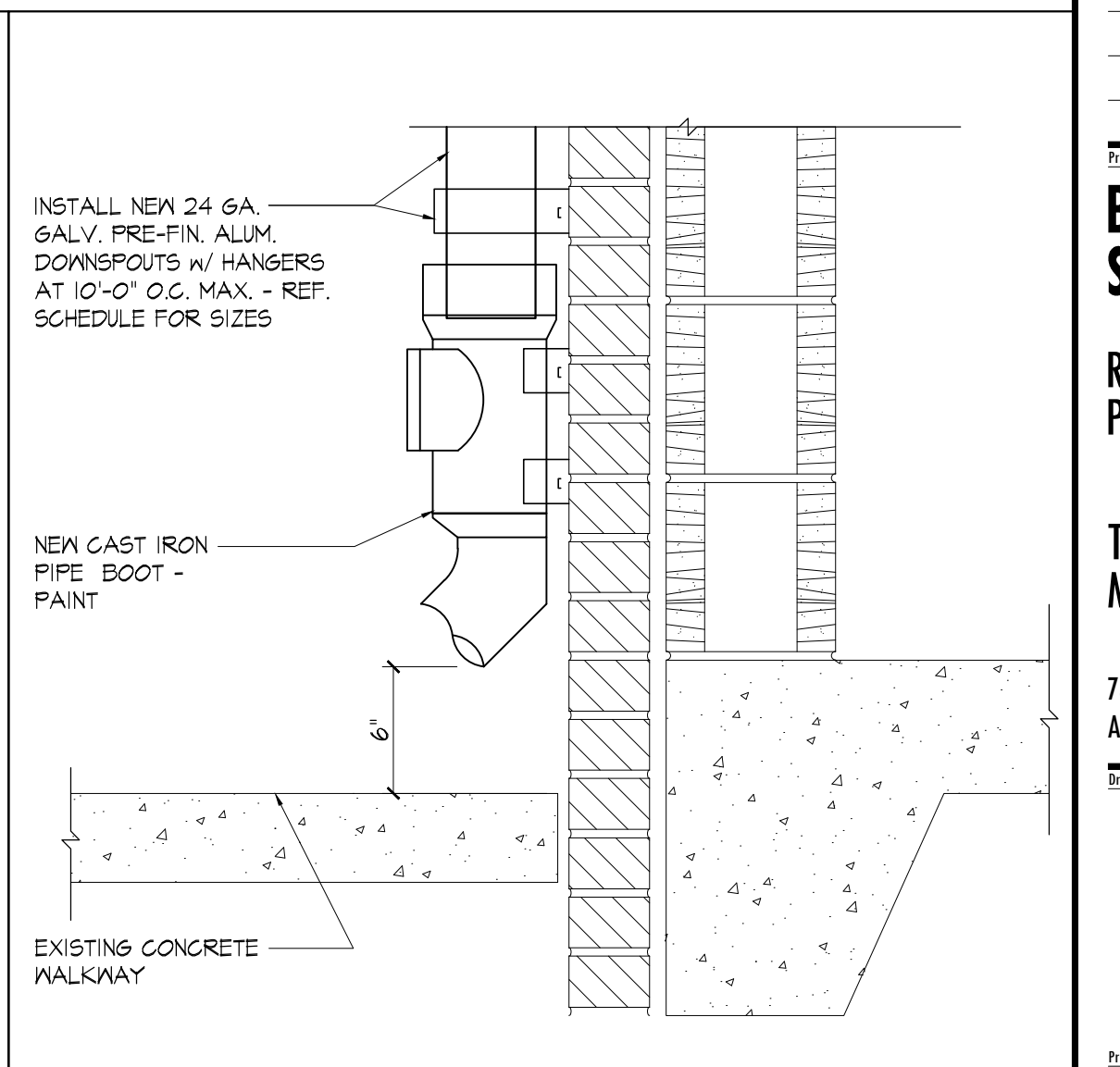
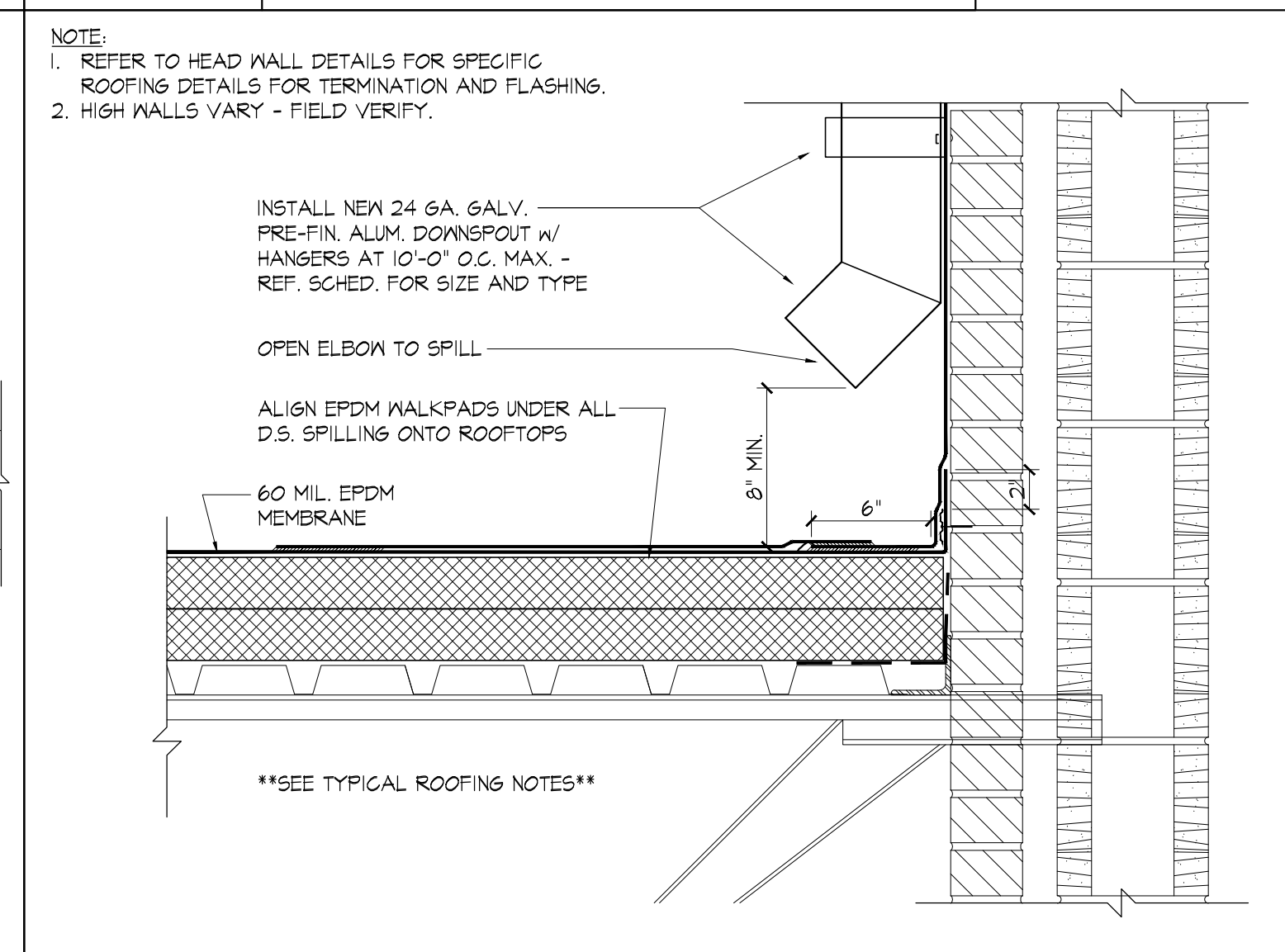
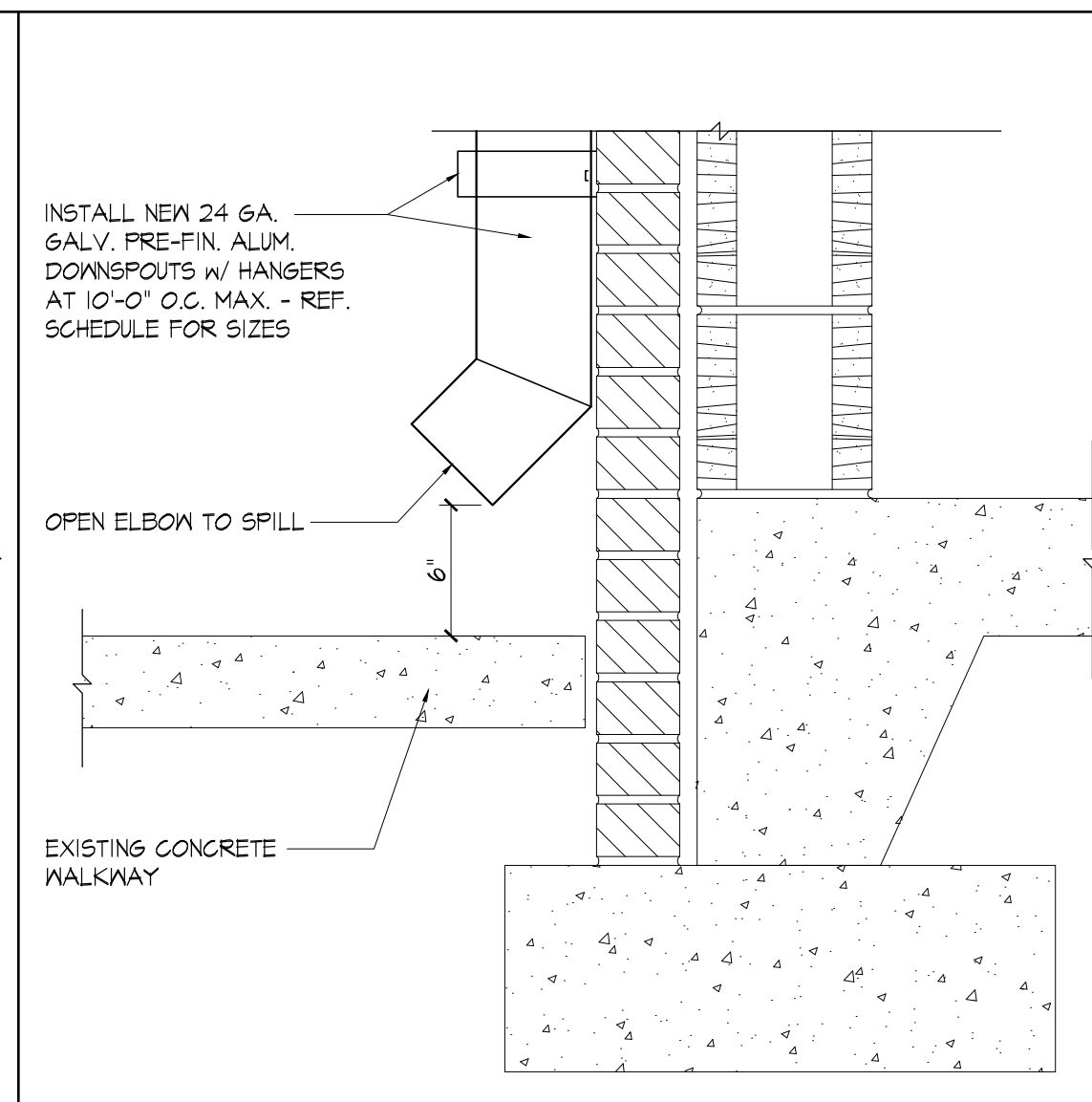
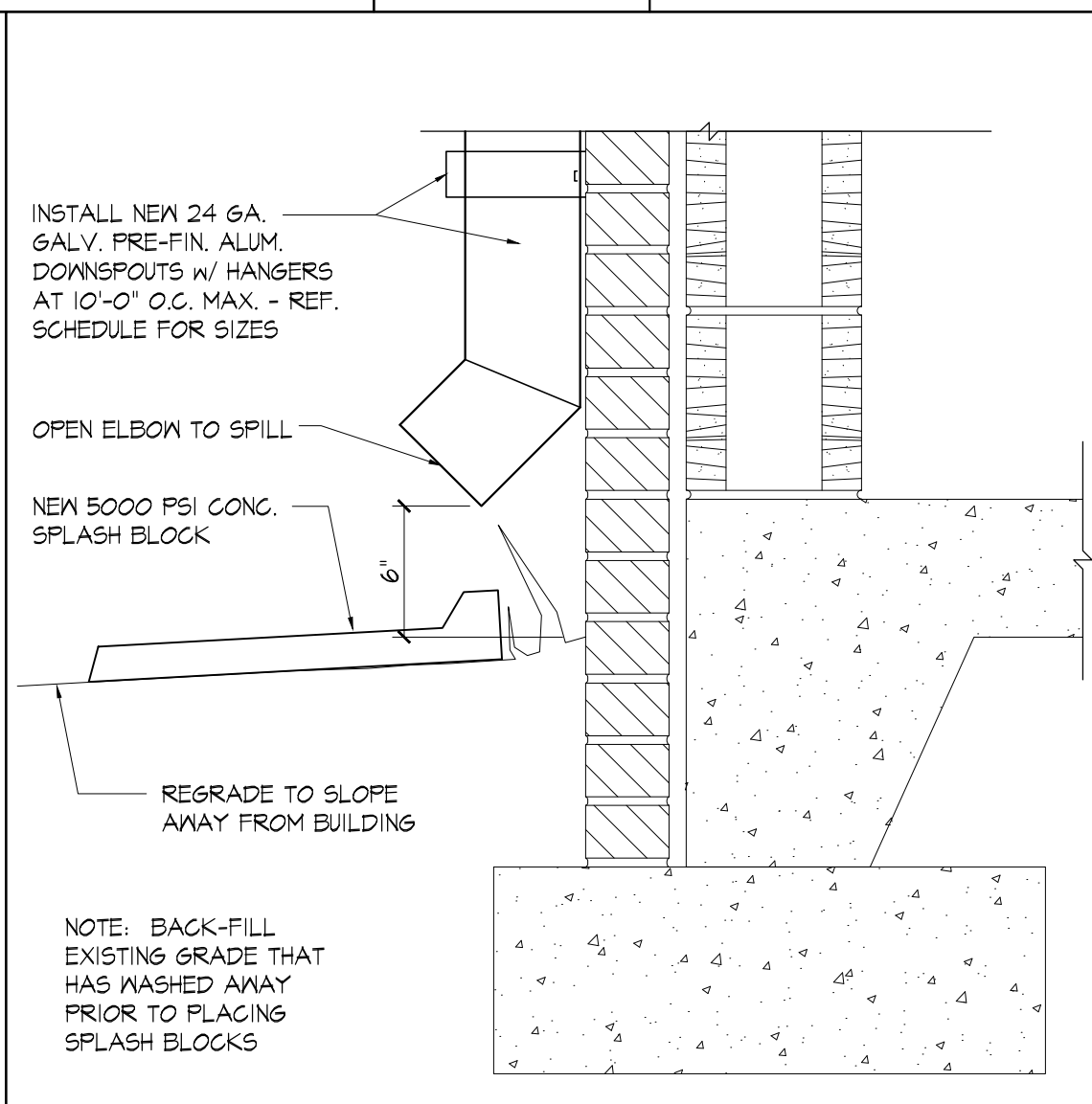
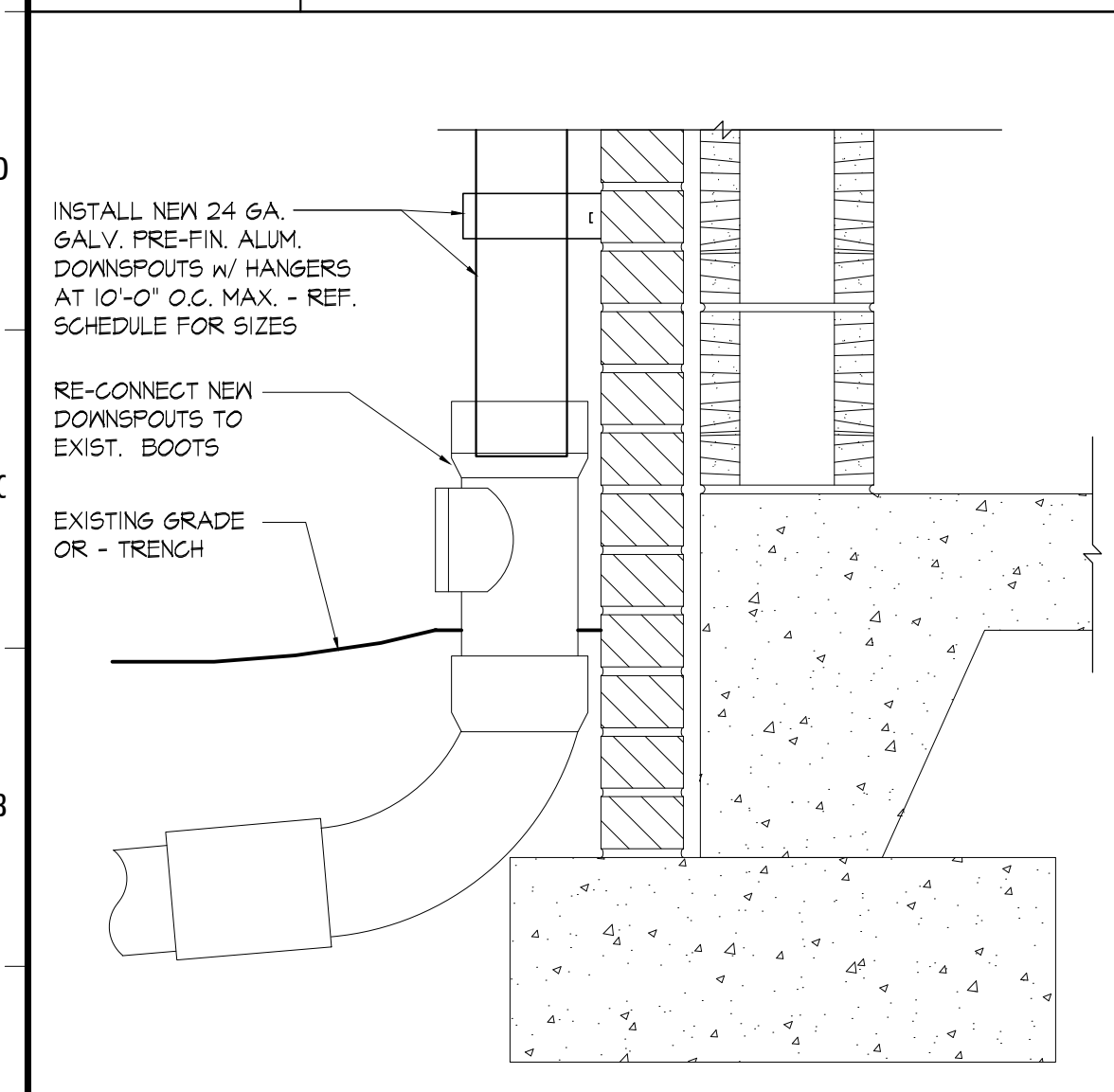
22009-DETAILS 3" = 1'-0"

E5 TYPICAL VERTICAL FLASHING TERMINATION

22009-DETAILS N.T.S.

E10 CONCRETE WHEEL STOP

22009-DETAILS 1 1/2" = 1'-0"



A1 DRAIN TO EXISTING STORM DRAIN

22009-DETAILS 1 1/2" = 1'-0"

A4 DRAIN TO NEW SPLASH BLOCK

22009-DETAILS 1 1/2" = 1'-0"

A7 DRAIN TO EXISTING WALKWAY

22009-DETAILS 1 1/2" = 1'-0"

A10 DRAIN TO WALKPAD

22009-DETAILS 1 1/2" = 1'-0"

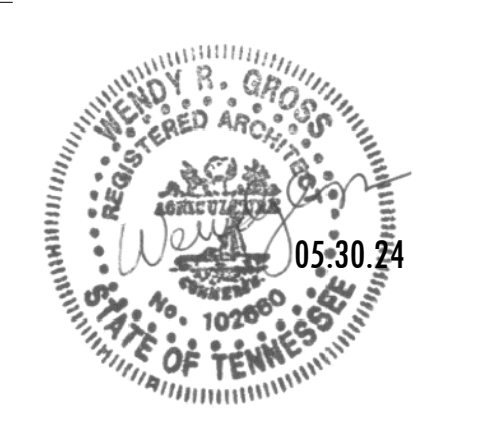
A14 NEW PIPE BOOT

22009-DETAILS 1 1/2" = 1'-0"

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Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name
Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Roof Details

Project No. 22009 Date 05.30.24

A3.9