

CONSTRUCTION PLANS FOR TEXAS SOUTHMOST COLLEGE

ROOF REPLACEMENT AND REPAIRS

(RCSP #19-10)

TSC BOARD OF TRUSTEES

ADELA G. GARZA JUAN MENDEZ III, J.D. **RUBEN HERRERA, J.D. EVA ALEJANDRO** J.J. DE LEON JR. **ART RENDON** DR. TONY ZAVALETA

CHAIR **VICE CHAIR SECRETARY TRUSTEE TRUSTEE TRUSTEE TRUSTEE**

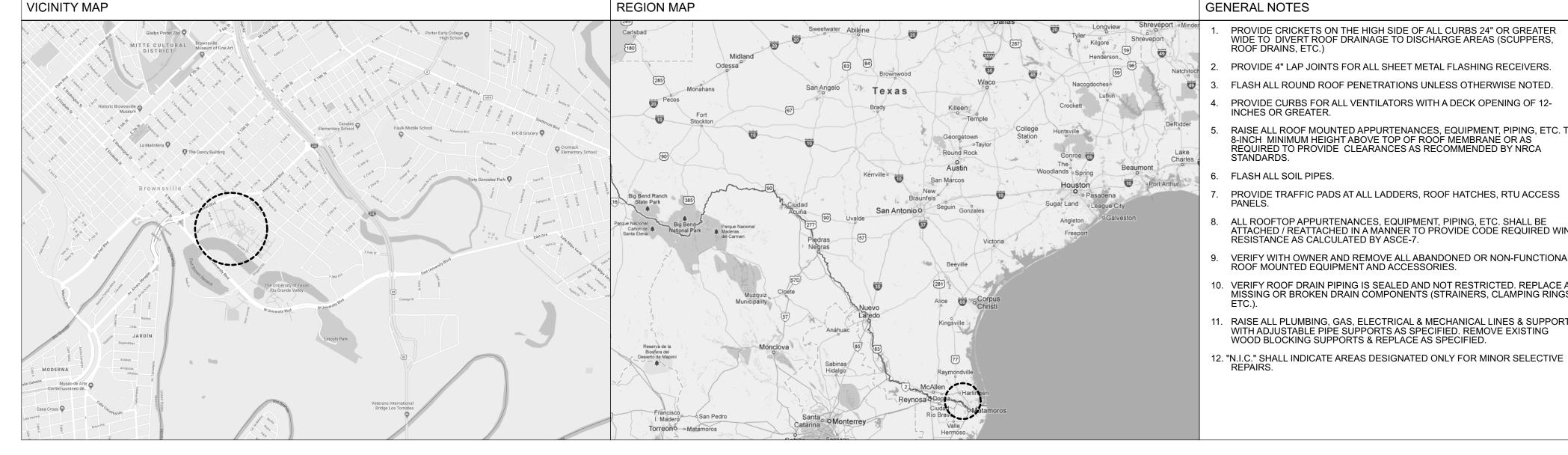
TEXAS SOUTHMOST COLLEGE 80 Fort Brown St., Brownsville, TX, 78520 Phone: 956-295-3600

Amtech Solutions, Inc.



1600 N. Jackson Rd. Ste #3PHARR, TEXAS 78577

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PROVIDE 4" LAP JOINTS FOR ALL SHEET METAL FLASHING RECEIVERS. FLASH ALL ROUND ROOF PENETRATIONS UNLESS OTHERWISE NOTED. PROVIDE CURBS FOR ALL VENTILATORS WITH A DECK OPENING OF 12-INCHES OR GREATER. RAISE ALL ROOF MOUNTED APPURTENANCES, EQUIPMENT, PIPING, ETC. TO 8-INCH MINIMUM HEIGHT ABOVE TOP OF ROOF MEMBRANE OR AS RECOMMENDED BY NRCA FLASH ALL SOIL PIPES. PROVIDE TRAFFIC PADS AT ALL LADDERS, ROOF HATCHES, RTU ACCESS ALL ROOFTOP APPURTENANCES, EQUIPMENT, PIPING, ETC. SHALL BE ATTACHED / REATTACHED IN A MANNER TO PROVIDE CODE REQUIRED WIND RESISTANCE AS CALCULATED BY ASCE-7. VERIFY WITH OWNER AND REMOVE ALL ABANDONED OR NON-FUNCTIONAL ROOF MOUNTED EQUIPMENT AND ACCESSORIES. 10. VERIFY ROOF DRAIN PIPING IS SEALED AND NOT RESTRICTED. REPLACE ALL MISSING OR BROKEN DRAIN COMPONENTS (STRAINERS, CLAMPING RINGS, 11. RAISE ALL PLUMBING, GAS, ELECTRICAL & MECHANICAL LINES & SUPPORT WITH ADJUSTABLE PIPE SUPPORTS AS SPECIFIED. REMOVE EXISTING WOOD BLOCKING SUPPORTS & REPLACE AS SPECIFIED.

R4	17 GARZA GYMNASIUM
R5	21 GUERRA EARLY CHILDHOOD CENTER
R6	24 CORTEZ HALL
R7	27 BOOKSTORE
R8	28 CAVALRY HALL
R9	29 SCIENCE ENGINEERING AND TECHNOLOGY BLDG
D0.0	PROPOSAL ASSEMBLY
D0.1	GENERAL DETAILS (MOD. BIT.)
D0.2	GENERAL DETAILS (MOD. BIT.)
D0.3	GENERAL DETAILS (METAL)
D0.4	GENERAL DETAILS (METAL)
D0.5	GENERAL DETAILS (METAL)
D0.6	END LAP REPAIR
D1.1	FORT BROWN
D1.2	FORT BROWN
D10.1	OLIVEIRA STUDENT SERVICES
D13.1	MUSIC BUILDING
D17.1	GARZA GYMNASIUM
D21.1	GUERRA EARLY CHILDHOOD CENTER
D24.1	CORTEZ HALL
D27.1	BOOKSTORE RCP
D27.2	BOOKSTORE
D28.1	CAVALRY HALL
D29.1	SET BUILDING

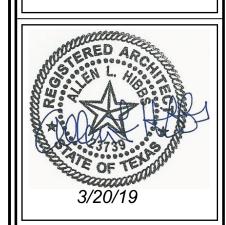
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TITLE SHEET (THIS SHEET) CODE INFORMATION

13 MUSIC BUILDING

1 FORT BROWN MEMORIAL CENTER

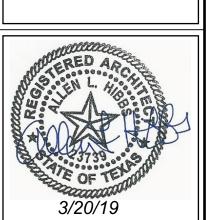
10 OLIVEIRA STUDENT SERVICES CENTER



ACEMENT REPL,

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ТП	TLE SHEET
DRAWN BY:	J.G. / S.E.
CHECKED BY:	C.G. / D.V. / J.R.
PROJECT NO.:	RGV.2017.001004
DATE	00415

SEE DRAWING 1 of 29



TEXAS SOUTHMOST COLLEGE

OF REPLACEMENT AND REPAIR

SOLUTIONS
OO N. JACKSON RD. STE #3
PHARR, TEXAS 78577

CODE INFORMATION

DRAWN BY: J.G. / S.E.

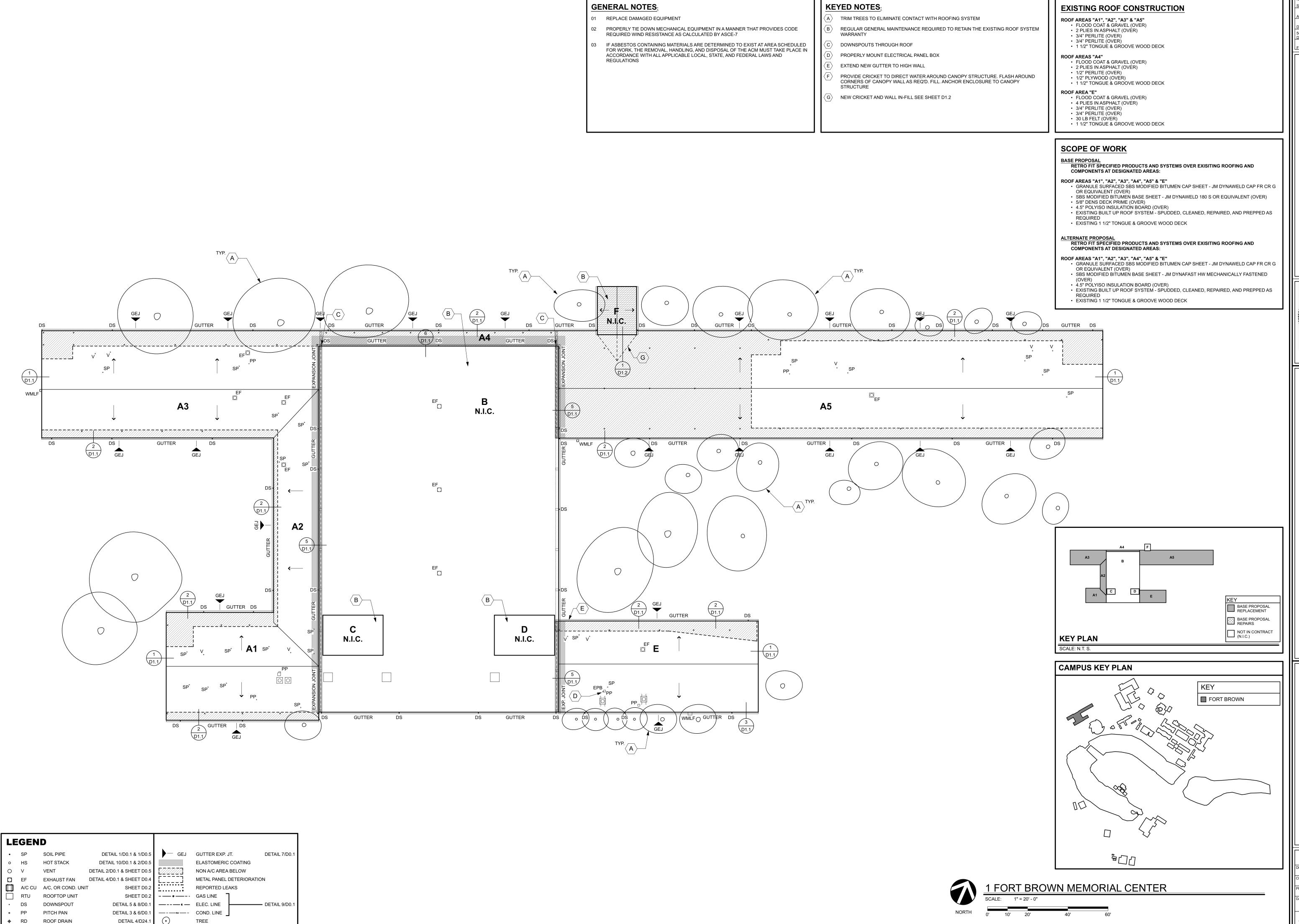
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RGV.2017.001004

SCALE:
SEE DRAWING

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ISSUED FOR:

SCHEMATIC DESIGN 09/30/18

ASBESTOS TESTING 11/21/18

DESIGN DEVELOPMENT 02/22/19
50% CONSTRUCTION 03/05/19

FOR CONSTRUCTION 03/20/19

PERED ASCALLANDES OF TENEDRAL STATE OF TENEDRAL

TEXAS SOUTHMOST COLLEGE
REPLACEMENT AND REPAIRS

SOLUTIONS
1600 N. JACKSON RD. STE #3
PHARR, TEXAS 78577

1 FORT BROWN
MEMORIAL CENTER
DRAWN BY: J.G. / S.E.

DRAWN BY: J.G. / S.E.

CHECKED BY: C.G. / D.V. / J.R.

PROJECT NO.: RGV.2017.001004

DATE: SCALE: SEE DRAWING

of **29**

GENERAL NOTES:

RTU

RTU RTU⊞

RTU₩ RTU

- PROPERLY TIE DOWN MECHANICAL EQUIPMENT IN A MANNER THAT PROVIDES CODE REQUIRED WIND RESISTANCE AS CALCULATED BY ASCE-7
- IF ASBESTOS CONTAINING MATERIALS ARE DETERMINED TO EXIST AT AREA SCHEDULED FOR WORK, THE REMOVAL, HANDLING, AND DISPOSAL OF THE ACM MUST TAKE PLACE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND

KEYED NOTES:

SPEAKER ™

- A TRIM TREES TO ELIMINATE CONTACT WITH ROOFING SYSTEM
- REGULAR GENERAL MAINTENANCE REQUIRED TO RETAIN THE EXISTING ROOF SYSTEM

N.I.C.

ADDRESS LEAKS IDENTIFIED IN THIS AREA

EXISTING ROOF CONSTRUCTION

ROOF AREAS "A", "C" & "D" 2"x16" SINGLE LOCK STANDING SEAM METAL ROOF - GALVANIZED W/ STRIATIONS

ROOF AREAS "A1", "A2" & "D1" SINGLE-PLY MEMBRANE (OVER)

SHEET METAL GUTTER

ROOF AREA "B"

- GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (OVER)

 2 PLIES IN ASPHALT (OVER)

 1/2" WOOD FIBER COVER BOARD (OVER)
- 4-PLY BUR (OVER) 3/4" PERLITE (OVÉR)

• 1/2" GYPSUM COVER BOARD (OVER) METAL DECK

SCOPE OF WORK

COMPONENTS • ROOF AREA "E"-"G": SELECTIVE REPAIRS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS

ROOF AREA "B"

• GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G

• 1/2" DENS DECK PRIME (OVER)
• 4.5" POLYISO INSULATION BOARD (OVER)

EXISTING METAL DECK

ROOF AREAS "C" & "D"
• MCELROY 138T STANDING SEAM WITH ROOF HUGGER (OVER)

ALTERNATE PROPOSAL

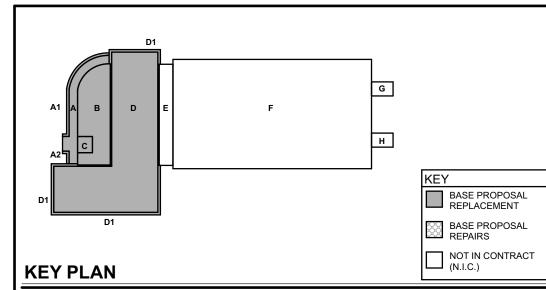
• ROOF AREA "A" AND "D": KEEP EXISTING METAL ROOF AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS
• ROOF AREA "B": REMOVE EXISTING DESIGNATED ROOFING DOWN TO DECK, AND REMOVE

COMPONENTS • ROOF AREA "E"-"G": SELECTIVE REPAIRS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS

• GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G OR EQUIVALENT (OVER)

• 4.5" POLYISO INSULATION BOARD (OVER)

SELECTIVE REPAIRS ON GUTTER AND COPING



BASE PROPOSAL
• ROOF AREA "A" REMOVE EXISTING METAL ROOF & INSTALL SPECIFIED PRODUCTS AND

 ROOF AREAS "C" AND "D" KEEP EXISTING METAL ROOF AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS • ROOF AREA "B": REMOVE EXISTING DESIGNATED ROOFING DOWN TO DECK, AND REMOVE

ROOF AREA "A"

• MCELROY 138T STANDING SEAM ROOF (OVER)
 • EXISTING INSULATION & SHEATHING
 • REPLACE INSULATION & SHEATHING AT DAMAGED AREAS

OR EQUIVALENT (OVER)

• SBS MODIFIED BITUMEN BASE SHEET - JM DYNAWELD 180 S OR EQUIVALENT (OVER)

• EXISTING INSULATION • SELECTIVE REPAIRS ON GUTTER AND COPING

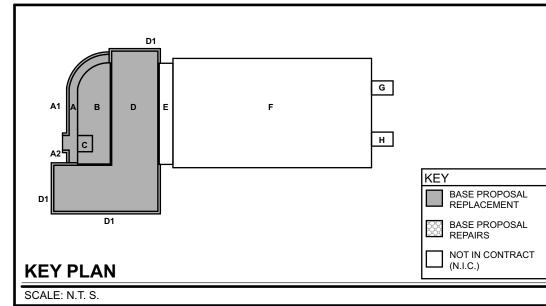
ROOF AREA "B"

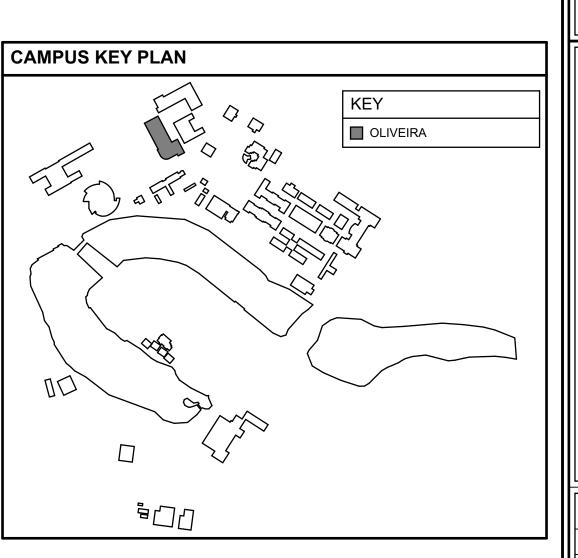
• SBS MODIFIED BITUMEN BASE SHEET - JM DYNAFAST HW MECHANICALLY FASTENED

• EXISTING METAL DECK

ROOF AREAS "C" & "D"

• MCELROY 138T STANDING SEAM WITH ROOF HUGGER (OVER)
• EXISTING INSULATION







LE	GEN	D				
•	SP	SOIL PIPE	DETAIL 1/D0.1 & 1/D0.5	— GEJ	GUTTER EXP. JT.	DETAIL 7/D0.1
0	HS	HOT STACK	DETAIL 10/D0.1 & 2/D0.5		ELASTOMERIC COATING	
0	V	VENT	DETAIL 2/D0.1 & SHEET D0.5		NON A/C AREA BELOW	
	EF	EXHAUST FAN	DETAIL 4/D0.1 & SHEET D0.4		METAL PANEL DETERIORATION	
	A/C CU	A/C, OR COND. UN	IIT SHEET D0.2		REPORTED LEAKS	
	RTU	ROOFTOP UNIT	SHEET D0.2		GAS LINE 7	
	DS	DOWNSPOUT	DETAIL 5 & 8/D0.1		ELEC. LINE	DETAIL 9/D0.1
	PP	PITCH PAN	DETAIL 3 & 6/D0.1		COND. LINE	
•	RD	ROOF DRAIN	DETAIL 4/D24.1	\bigcirc	TREE	

A1 GUTTER

A2 GUTTER

D1 GUTTER

REPLACEMENT A

SCHEMATIC DESIGN

ASBESTOS TESTING

DESIGN DEVELOPMENT

FOR CONSTRUCTION

10 OLIVEIRA STUDENT SERVICES CENTER C.G. / D.V. / J.R.

SEE DRAWING of **29**

GENERAL NOTES:

- OBSERVATIONS OF EXISTING STRUCTURE HAVE NOT BEEN ASSESSED BY STRUCTURAL ENGINEER. THE FOLLOWING ROOF/BUILDING STRUCTURAL STIFFENING/SPANNING INFORMATION PROVIDED SERVE ONLY AS A GUIDE FOR PRICING. RECOMMENDATIONS FOR ROOF & BUILDING STRUCTURAL REINFORCING SHALL BE VERIFIED BY THE CONTRACTOR WITH A STRUCTURAL ENGINEER BEFORE INSTALLATION OF BASE OR ALTERNATE PROPOSAL. CONTRACTOR TO PROVIDE STRUCTURAL ENGINEERING DOCUMENTATION TO ARCHITECT FOR REVIEW
- PROVIDE STRAP TIES AT ALL PURLIN TO BEAM ATTACHMENTS THAT ARE NOT PROPERLY
 - PROVIDE 2X2X1/8" BRACES AT PURLINS AT PERIMETER BEAM ON ONE SIDE OF EACH
- REPLACE ALL GUTTERS, DOWNSPOUTS, AND SPLASH BLOCKS WITH NEW MATERIAL AS

KEYED NOTES:

- A TRIM TREES TO ELIMINATE CONTACT WITH ROOFING SYSTEM
- REMOVE EXISTING R-PANEL SKIRT AND FRAMING
- REMOVE AND REPLACE EXISTING METAL WALL PANELS WITH NEW WALL PANELS AND FLASHING AS PER MANUFACTURER'S REQUIREMENTS
- D FOR BASE PROPOSAL KEEP EXISTING RIDGE OF PROFILE OF BUILDING

EXISTING ROOF CONSTRUCTION

ROOF AREAS "A" & "B"

POLYURETHANE FOAM (OVER) METAL R-PANEL

SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT 50% CONSTRUCTION FOR CONSTRUCTION

SCOPE OF WORK

PART 1 ROOF:

- REMOVE EXISTING DESIGNATED ROOFING DOWN TO FRAMING AND COMPONENTS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS
- TREAT FRAMING FOR RUST CONVERSION AND PAINT WITH W/ RED OXIDE PRIMER • VERIFY STRUCTURAL DETAILS OF BUILDING WITH ENGINEER BEFORE INSTALLING NEW COMPONENTS

ROOF AREAS "A" & "B"

- GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET JM DYNAWELD FR CR G OR EQUIVELENT (OVER)
- SBS MODIFIED BITUMEN BASE SHEET JM DYNAWELD 180 S OR EQUIVELENT (OVER) • 1/2" COVER BOARD - DENSDECK PRIME OR EQUIVELENT (OVER)
- 4.5" POLYISO INSULATION BOARD (OVER)
 SBS MOD BIT BASE DYNAWELD 180 S TORCHED (OVER)
- 5/8" FIRE RATED COVER BOARD (OVER)
- METAL "F" DECK (OVER) • EXISTING FRAMING TRÉATED FOR RUST CONVERSION & PAINTED WITH RED OXIDE

ALTERNATE PROPOSAL

• REMOVE EXISTING DESIGNATED ROOFING DOWN TO FRAMING AND COMPONENTS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS • TREAT FRAMING FOR RUST CONVERSION AND PAINT WITH W/ RED OXIDE PRIMER

ROOF AREAS "A" & "B"

- GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET JM DYNAWELD FR CR G OR EQUIVELENT (OVER)
- SBS MODIFIED BITUMEN BASE SHEET DYNAFAST HW MECHANICALLY FASTENED TO DECK OR POLYISO INSULATION (OVER)
- 4.5" POLYISO INSULATION BOARD (OVER) • SBS MODIFIED BITUMEN BASE DYNAWELD 180 S TORCHED (OVER)
- 5/8" DENS DECK PRIME (OVER) • 22 GAUGE TYPE F METAL DECK (OVER)
- TREAT EXISTING FRAMING FOR RUST CONVERSION & PAINTED WITH RED OXIDE PRIMER

PART 2 SKIRT:

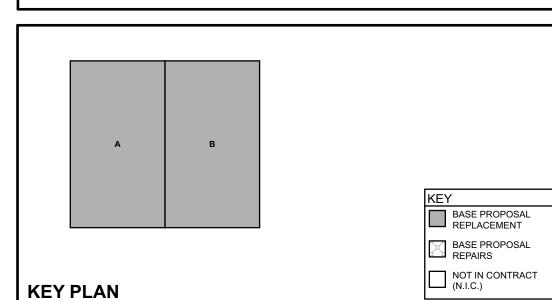
REMOVE EXISTING DESIGNATED WALL PANELS ON AND BEHIND SKIRT, FRAMING, AND REMOVE STEEL SKIRT STRUCTURES
 REPLACE EXISTING WALL PANELS AS SPEC'D

- PATCH AND REPAIR AS REQ'D
- ALTERNATE PROPOSAL
 REMOVE EXISTING DESIGNATED WALL PANELS ON AND BEHIND SKIRT, COMPONENTS, AND DAMAGED FRAMING • ADD PARAPET WALL AS PER DETAIL 2/D13.1
- PATCH AND REPAIR AS REQ'D

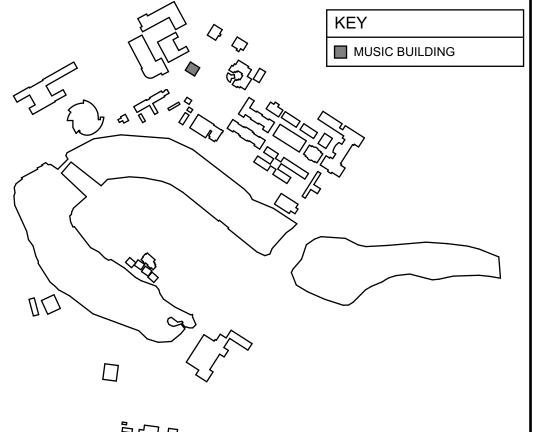
PART 3 INTERIORS:

 KEEP EXISTING CLG. TILE IN PLACE DURING ROOF RENOVATION • REMOVE AND REPLACE EXISTING CLG. TILES AFTER ROOF REPAIR

• PATCH AND REPAIR INTERIORS AS REQ'D







13 MUSIC BUILDING

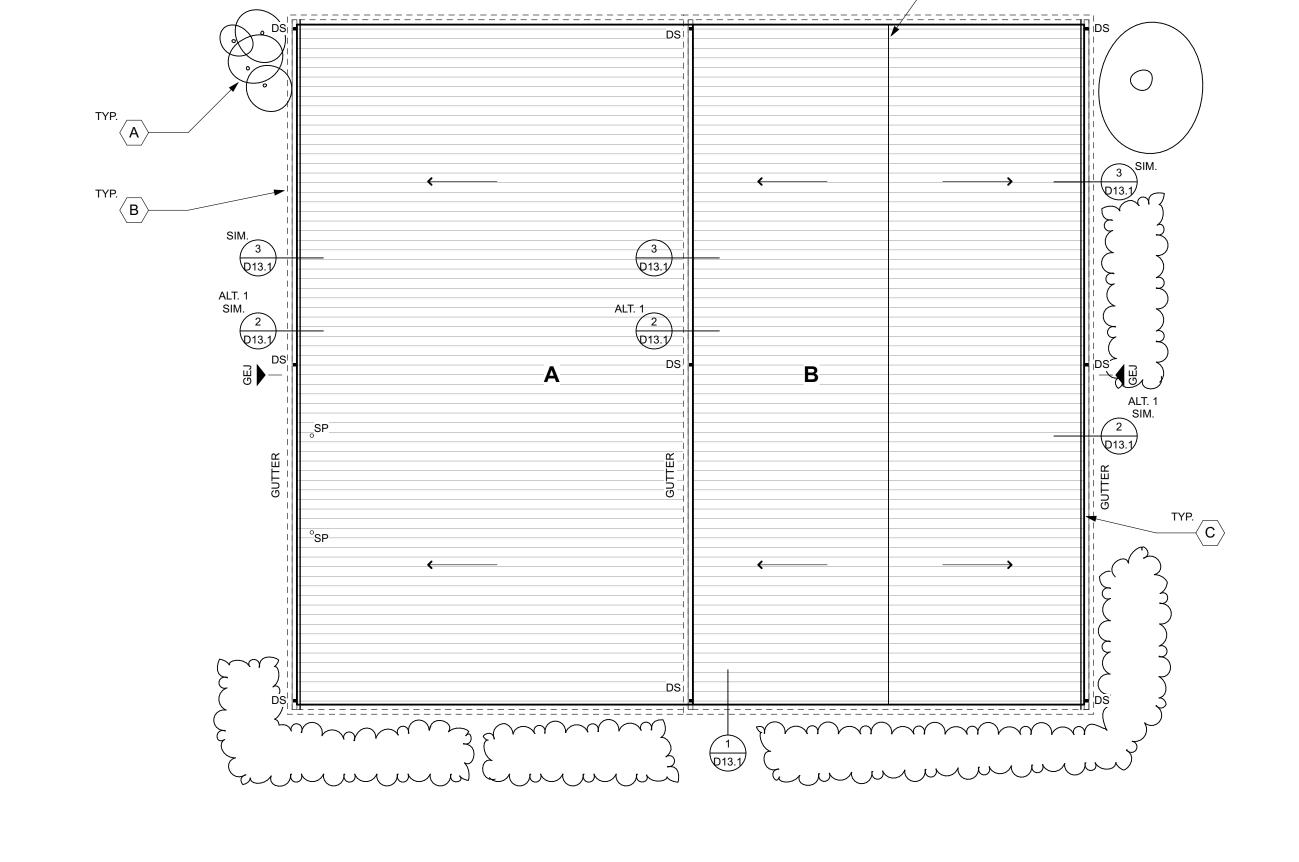
SCALE: 1" = 10' - 0"

REPLACEMENT

13 MUSIC BUILDING

C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

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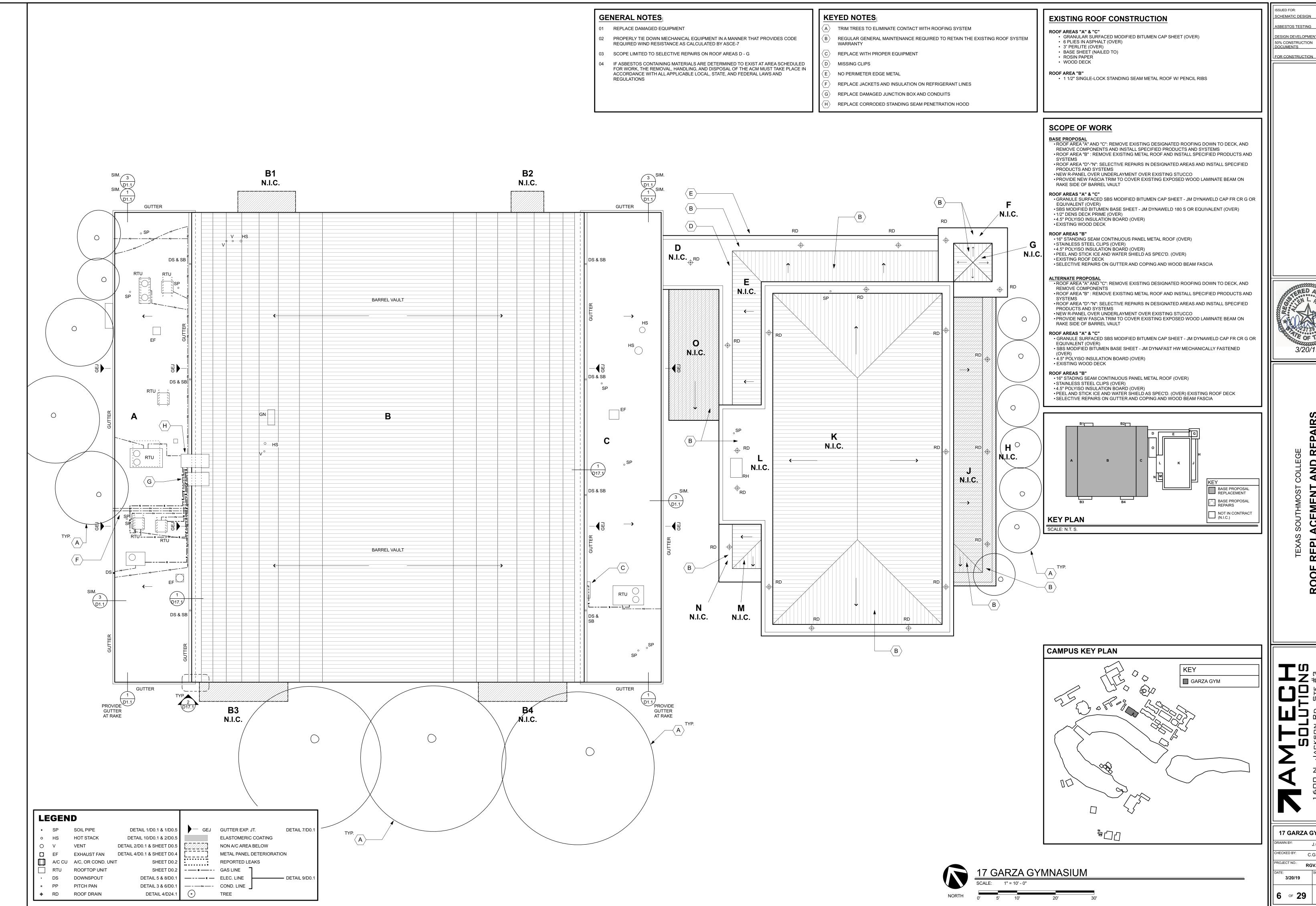


LEGEND DETAIL 1/D0.1 & 1/D0.5 — GEJ GUTTER EXP. JT. DETAIL 7/D0.1 ELASTOMERIC COATING DETAIL 2/D0.1 & SHEET D0.5 NON A/C AREA BELOW METAL PANEL DETERIORATION DETAIL 4/D0.1 & SHEET D0.4 EXHAUST FAN A/C CU A/C, OR COND. UNIT REPORTED LEAKS SHEET D0.2 ---- GAS LINE DETAIL 5 & 8/D0.1 —---E— ELEC. LINE DOWNSPOUT PITCH PAN DETAIL 3 & 6/D0.1 —--~-- COND. LINE _

DETAIL 4/D24.1

♦ RD

ROOF DRAIN



SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT

17 GARZA GYMNASIUM

C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

GENERAL NOTES: 11 REPAIR COPING AND FLASHINGS 02 SLOPE FOR POSITIVE DRAINAGE TO GUTTER

DS & SC

DS & SC

A1 GUTTER

KEYED NOTES:

A TRIM TREES TO ELIMINATE CONTACT WITH ROOFING SYSTEM

B PROVIDE CRICKETS TO DRAW TO SCUPPERS

 $\langle C \rangle$ SHAPE ROOF FOR 5x5 SLOPING PLATFORM IN FROM OF ACCESS DOOR

D REPLACE ALL ROTTEN WOOD THAT EXISTS UNDER ROOF MEMBRANE WITH NEW TREATED LUMBER

EXISTING ROOF CONSTRUCTION

• 2"x16" SINGLE LOCK STANDING SEAM METAL ROOF - GALVANIZED W/ STRIATIONS

ROOF AREA "A1" SHEET METAL GUTTER

> **ROOF AREA "B"** GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET AND BASE PLY (OVER)

6" TAPERED PERLITE INSULATION (OVER)

 BASE SHEET (FASTENED TO) PLYWOOD (FASTENED TO) METAL DECK

SCOPE OF WORK

BASE PROPOSAL

ROOF AREA "A": KEEP EXISTING METAL ROOF

ROOF AREA "A1": KEEP EXISTING GUTTER AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS FOR SELCTIVE REPAIRS. REMOVE AND RE-ATTACH COPING TO MEET ES1 ROOF AREA "B": REMOVE EXISTING DESIGNATED ROOFING DOWN TO

ROOF AREAS "A1"

GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G OR EQUIVALENT (OVER)

SBS MODIFIED BITUMEN BASE SHEET - JM DYNAWELD HW MECHANICALLY FASTENED

DECK, AND REMOVE COMPONENTS. INSTALL SPECIFIED PRODUCTS AND SYSTEMS.

BASE SHEET AS SPEC'D (OVER)

PMMA COATING (OVER)
EXISTING METAL GUTTER (OVER)
EXISTING METAL ROOF

ROOF AREAS "B" GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G

 SBS MODIFIED BITUMEN BASE SHEET - JM DYNAWELD 180 S OR EQUIVALENT (OVER) 1/2" DENS DECK PRIME (OVER)
 4.5" POLYISO INSULATION BOARD (OVER)

EXISTING METAL DECK

ALTERNATE PROPOSAL

ROOF AREAS "A1"

GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G
 OR EQUIVALENT (OVER)
 SBS MODIFIED BITUMEN BASE SHEET - JM DYNAWELD HW MECHANICALLY FASTENED

 BASE SHEET AS SPEC'D (OVER) PMMA COATING (OVER)

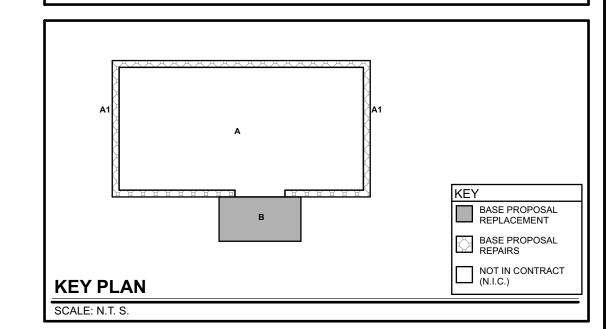
EXISTING METAL GUTTER (OVER)
 EXISTING METAL ROOF

ROOF AREAS "B"

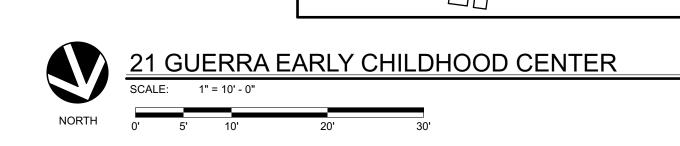
GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G

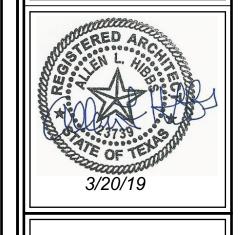
SBS MODIFIED BITUMEN BASE SHEET - JM DYNAWELD HW MECHANICALLY FASTENED

4.5" POLYISO INSULATION BOARD (OVER)
 EXISTING METAL DECK



CAMPUS KEY PLAN ■ GUERRA ECC





SCHEMATIC DESIGN ASBESTOS TESTING

DESIGN DEVELOPMENT

FOR CONSTRUCTION

50% CONSTRUCTION

OCUMENTS

02/22/19

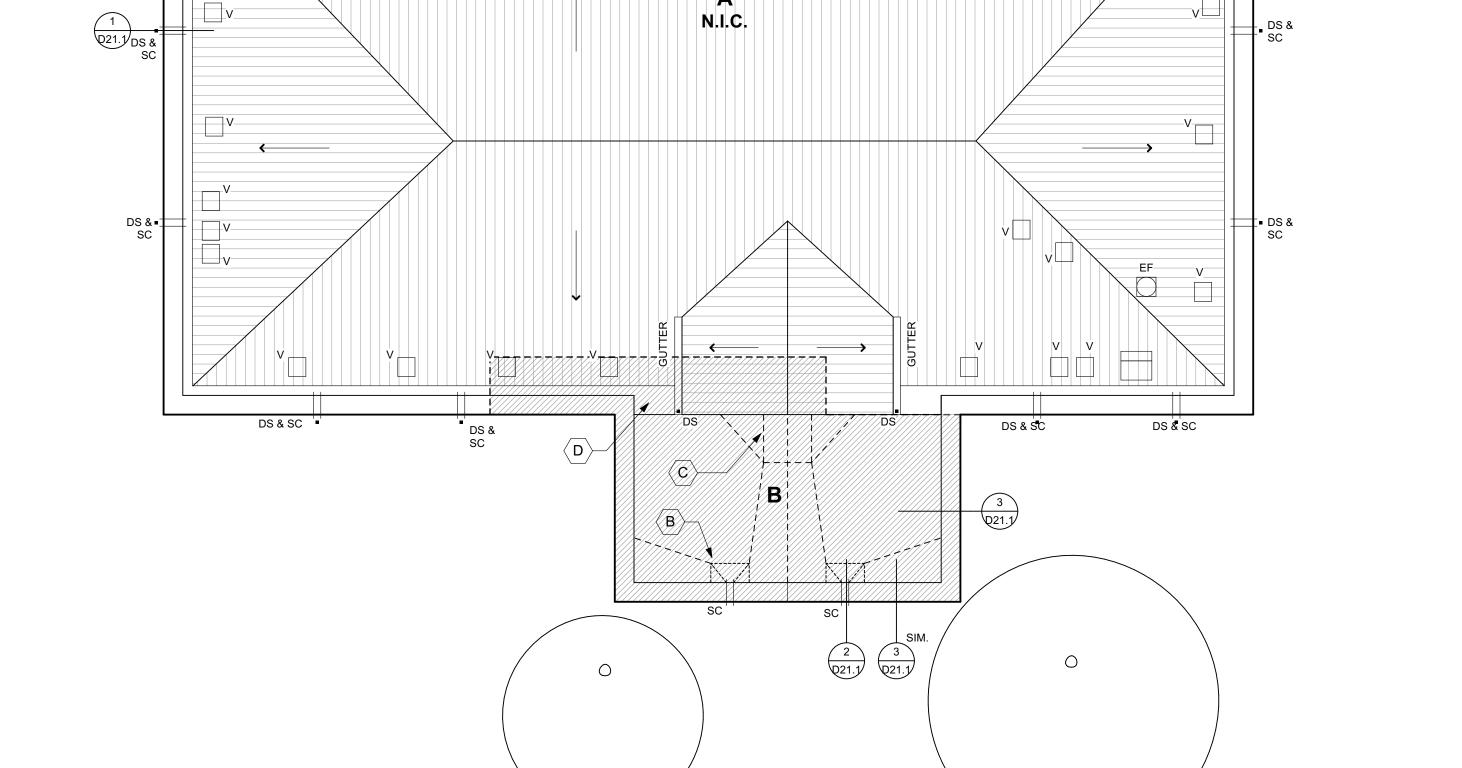
ND RE REPLACEMENT A

21 GUERRA EARLY CHIDHOOD CENTER

of **29**

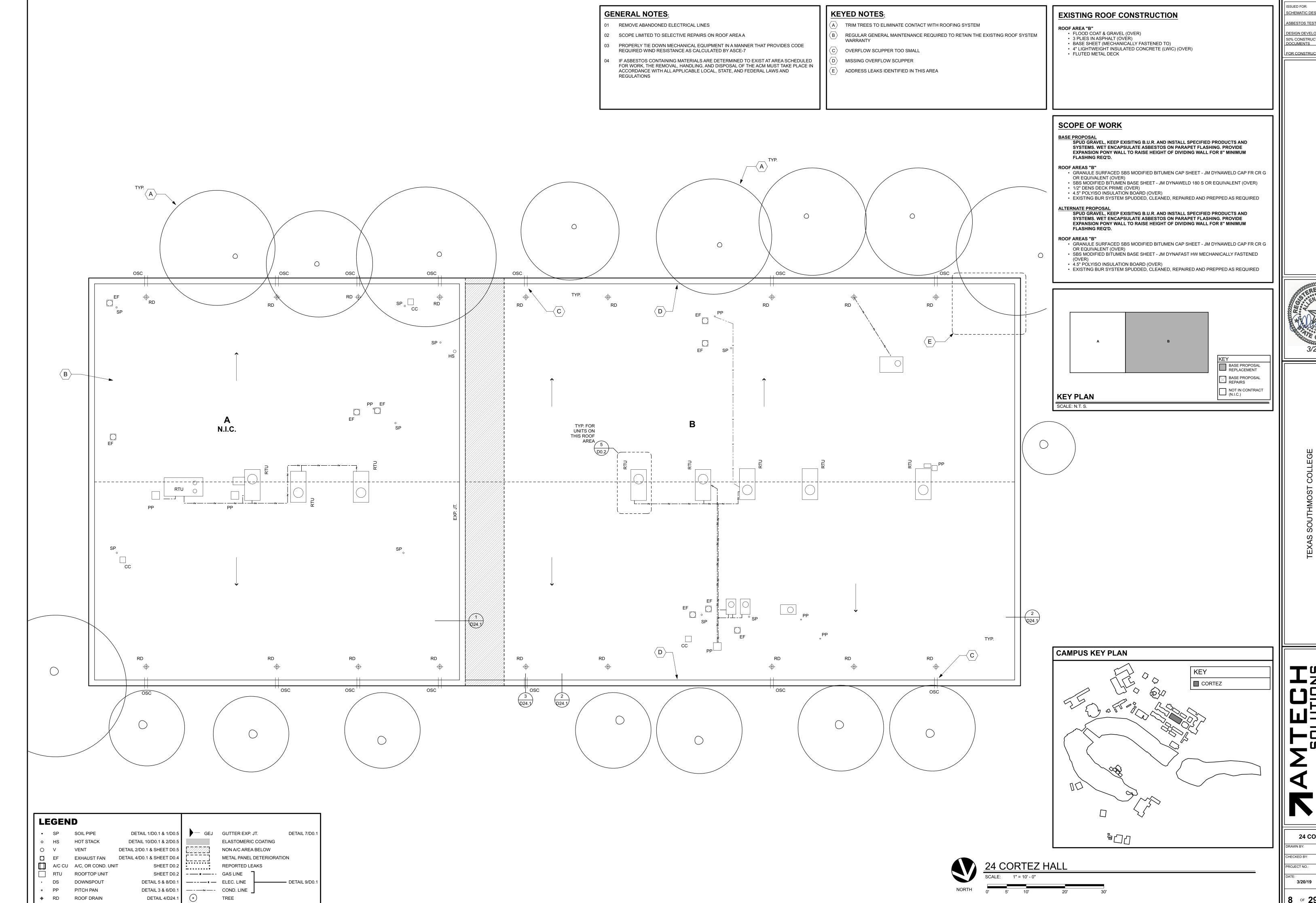
C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

LEGEND DETAIL 1/D0.1 & 1/D0.5 ELASTOMERIC COATING NON A/C AREA BELOW METAL PANEL DETERIORATION A/C CU A/C, OR COND. UNIT REPORTED LEAKS DETAIL 5 & 8/D0.1 DETAIL 3 & 6/D0.1 —--~-- COND. LINE **ROOF DRAIN** DETAIL 4/D24.1



DS & SC

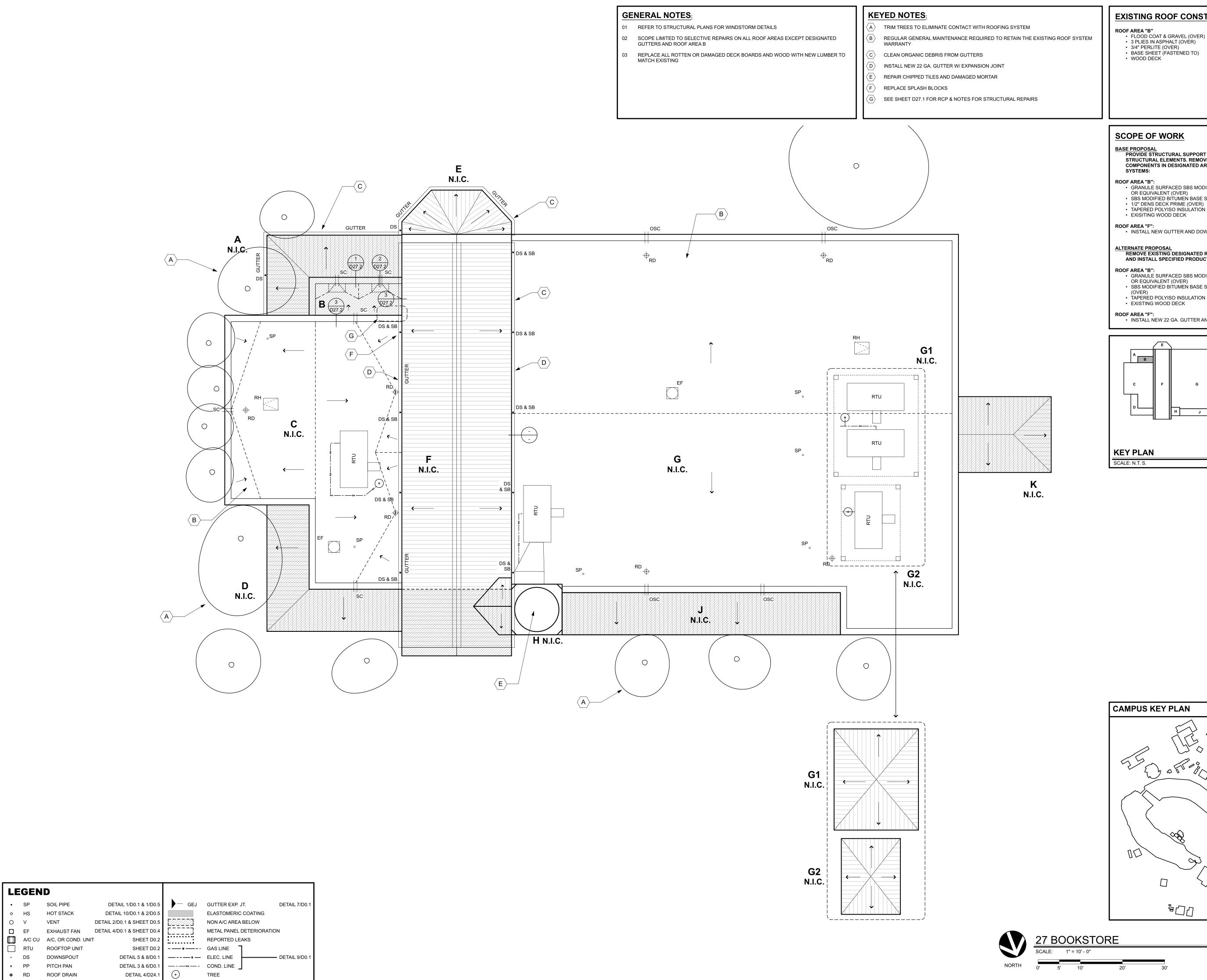
DS & SC



SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT 50% CONSTRUCTION FOR CONSTRUCTION

24 CORTEZ HALL C.G. / D.V. / J.R.

SEE DRAWING





ROOF AREA "B"

• FLOOD COAT & GRAVEL (OVER)
• 3 PLIES IN ASPHALT (OVER)
• 3/4" PERLITE (OVER)
• BASE SHEET (FASTENED TO) WOOD DECK

SCOPE OF WORK

PROVIDE STRUCTURAL SUPPORT FOR COLLAPSING ROOF. REPLACE DAMAGED STRUCTURAL ELEMENTS. REMOVE EXISTING DESIGNATED ROOFING DOWN TO DECK AND STRUCTURAL ELEMENTS. REMOVE EXISTING DESIGNATED PRODUCTS AND STRUCTURAL ELEMENTS. REMOVE EXISTING DESIGNATED PRODUCTS AND COMPONENTS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND

GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G
 OR EQUIVALENT (OVER)
 SBS MODIFIED BITUMEN BASE SHEET - JM DYNAWELD 180 S OR EQUIVALENT (OVER)

 TAPERED POLYISO INSULATION BOARD (OVER) EXISITING WOOD DECK

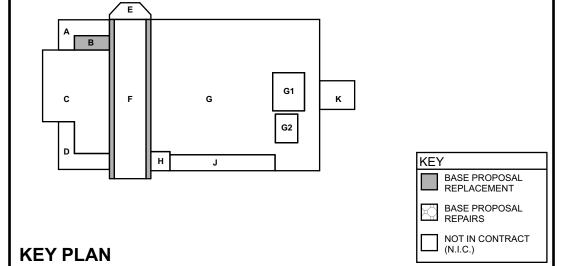
ROOF AREA "F": • INSTALL NEW GUTTER AND DOWNSPOUT

ALTERNATE PROPOSAL
REMOVE EXISTING DESIGNATED ROOFING AND COMPONENTS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS:

 GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET - JM DYNAWELD CAP FR CR G
 OR EQUIVALENT (OVER) SBS MODIFIED BITUMEN BASE SHEET - JM DYNAFAST HW MECHANICALLY FASTENED

 TAPERED POLYISO INSULATION BOARD (OVER) EXISTING WOOD DECK

ROOF AREA "F":
• INSTALL NEW 22 GA. GUTTER AND DOWNSPOUT TO MATCH EXISTING



■ BOOKSTORE



SCHEMATIC DESIGN

DESIGN DEVELOPMENT

50% CONSTRUCTION

FOR CONSTRUCTION

27 BOOKSTORE

C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

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A/C CU A/C, OR COND. UNIT
RTU ROOFTOP UNIT

ROOF DRAIN

REPORTED LEAKS

---- GAS LINE

—--- ELEC. LINE

—--~- COND. LINE _

SHEET D0.2

DETAIL 5 & 8/D0.1

DETAIL 3 & 6/D0.1

DETAIL 4/D24.1

GENERAL NOTES:

KEYED NOTES:

EXISTING ROOF CONSTRUCTION

- ROOF AREA "B"

- ROSIN PAPER (OVER) WOOD DECK
- GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (OVER)
 BUR MEMBRANE IN ASPHALT (OVER)
 PERLITE INSULATION (OVER)
 BASE SHEET (OVER) DESIGN DEVELOPMENT 50% CONSTRUCTION FOR CONSTRUCTION

SCOPE OF WORK

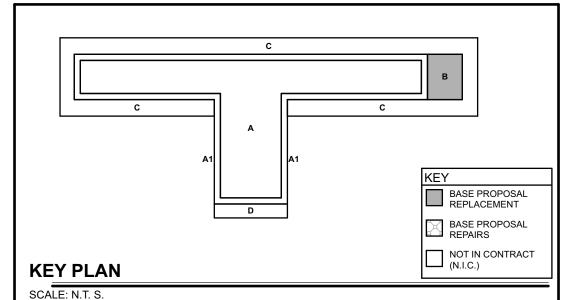
BASE PROPOSAL REMOVE EXISTING DESIGNATED ROOFING DOWN TO DECK AND COMPONENTS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS:

- GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET JM DYNAWELD CAP FR CR G
- GRANGLE SURFACED SBS MODIFIED BITOMEN CAP SHEET JM DYNAWELD CAP FR CR OF EQUIVALENT (OVER)
 SBS MODIFIED BITUMEN BASE SHEET JM DYNAWELD 180 S OR EQUIVALENT (OVER)
 1/2" DENS DECK PRIME (OVER)
 4.5" POLYISO INSULATION BOARD (OVER)
 EXISTING WOOD DECK

ALTERNATE PROPOSAL REMOVE EXISTING DESIGNATED ROOFING AND COMPONENTS IN DESIGNATED AREAS AND INSTALL SPECIFIED PRODUCTS AND SYSTEMS:

- GRANULE SURFACED SBS MODIFIED BITUMEN CAP SHEET JM DYNAWELD CAP FR CR G
- OR EQUIVALENT (OVER)

 SBS MODIFIED BITUMEN BASE SHEET JM DYNAFAST HW MECHANICALLY FASTENED
- 4.5" POLYISO INSULATION BOARD (OVER)
 EXISTING WOOD DECK

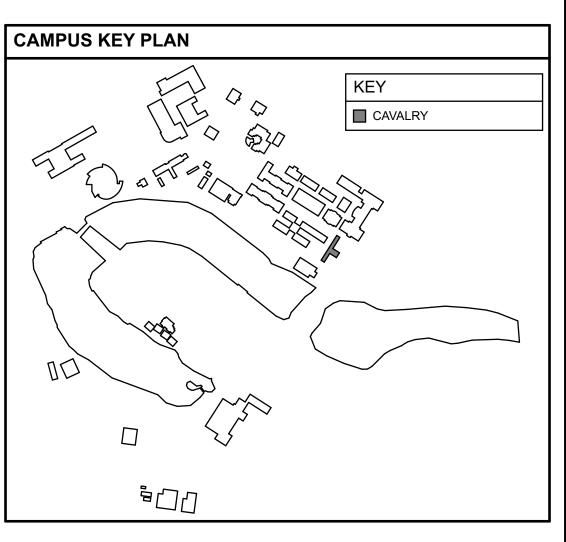


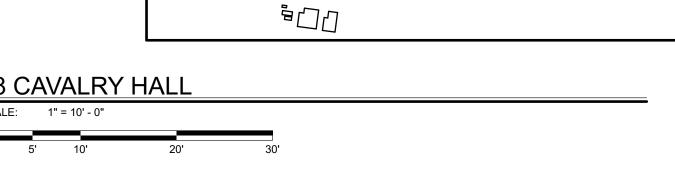


SCHEMATIC DESIGN

ASBESTOS TESTING

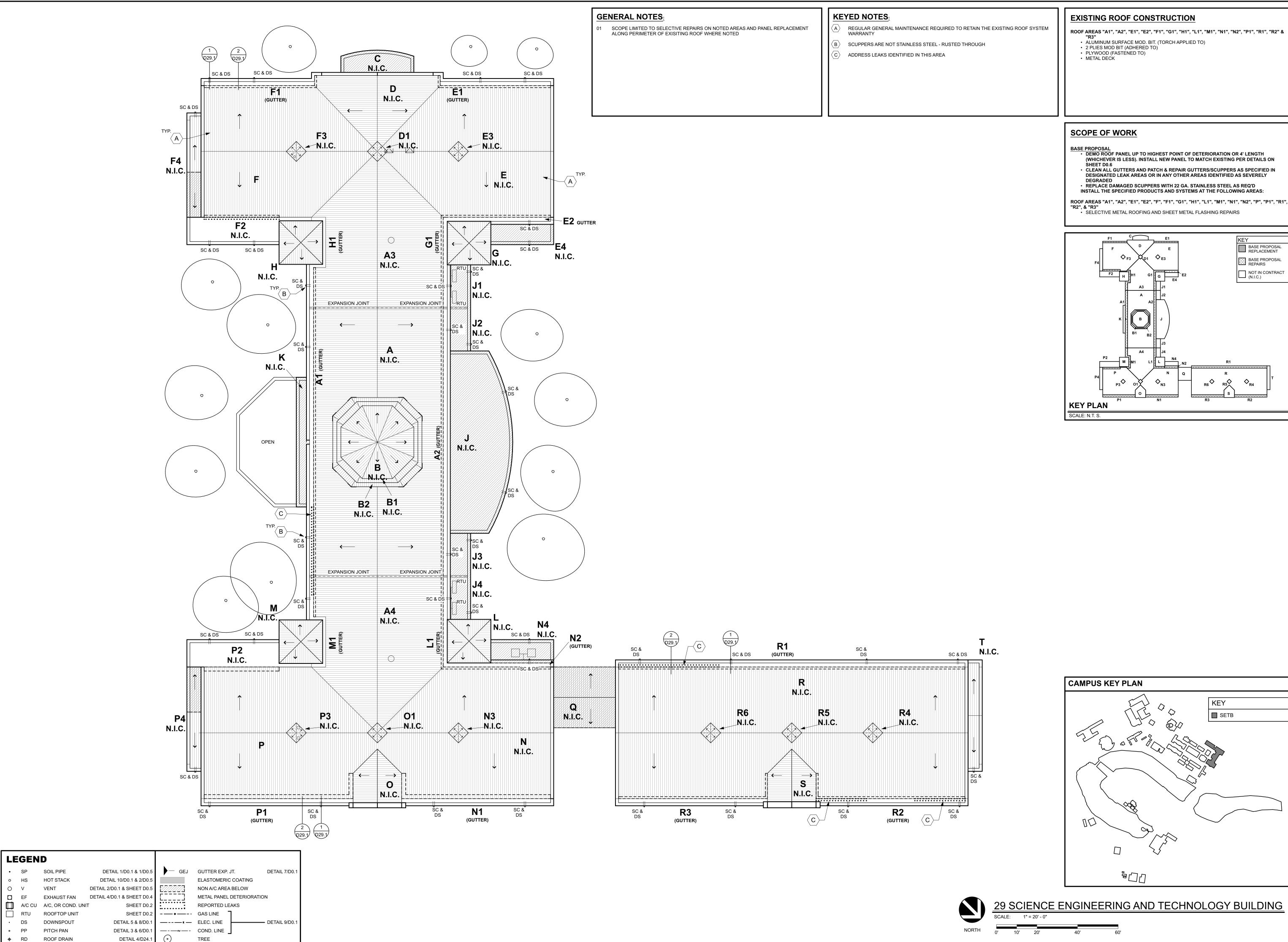
ND REPAIRS





28 CAVALRY HALL C.G. / D.V. / J.R. RGV.2017.001004

SCALE: SEE DRAWING **10** of **29**



EXISTING ROOF CONSTRUCTION

DESIGN DEVELOPMENT

50% CONSTRUCTION

FOR CONSTRUCTION

ALUMINUM SURFACE MOD. BIT. (TORCH APPLIED TO)
2 PLIES MOD BIT (ADHERED TO)
PLYWOOD (FASTENED TO)

METAL DECK

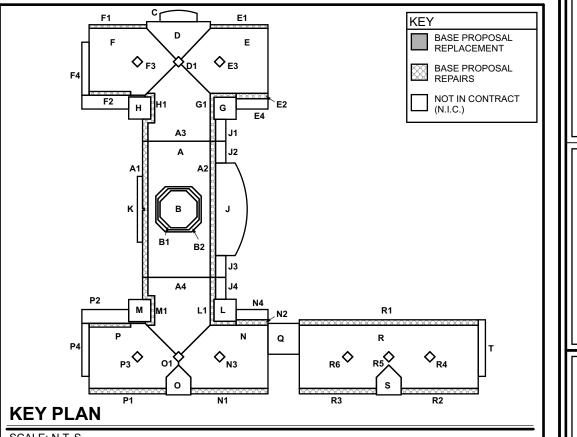
SCOPE OF WORK

DEMO ROOF PANEL UP TO HIGHEST POINT OF DETERIORATION OR 4' LENGTH
 (WHICHEVER IS LESS). INSTALL NEW PANEL TO MATCH EXISTING PER DETAILS ON

• CLEAN ALL GUTTERS AND PATCH & REPAIR GUTTERS/SCUPPERS AS SPECIFIED IN DESIGNATED LEAK AREAS OR IN ANY OTHER AREAS IDENTIFIED AS SEVERELY

 REPLACE DAMAGED SCUPPERS WITH 22 GA. STAINLESS STEEL AS REQ'D INSTALL THE SPECIFIED PRODUCTS AND SYSTEMS AT THE FOLLOWING AREAS:

ROOF AREAS "A1", "A2", "E1", "E2", "F", "F1", "G1", "H1", "L1", "M1", "N1", "N2", "P", "P1", "R1", "R2", & "R3" SELECTIVE METAL ROOFING AND SHEET METAL FLASHING REPAIRS

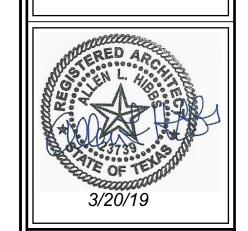




ND REPAIR

29 SCIENCE ENGINEERING & TECHNOLOGY BLDG C.G. / D.V. / J.R. RGV.2017.001004

SEE DRAWING **11** of **29**



REPLACEMENT A

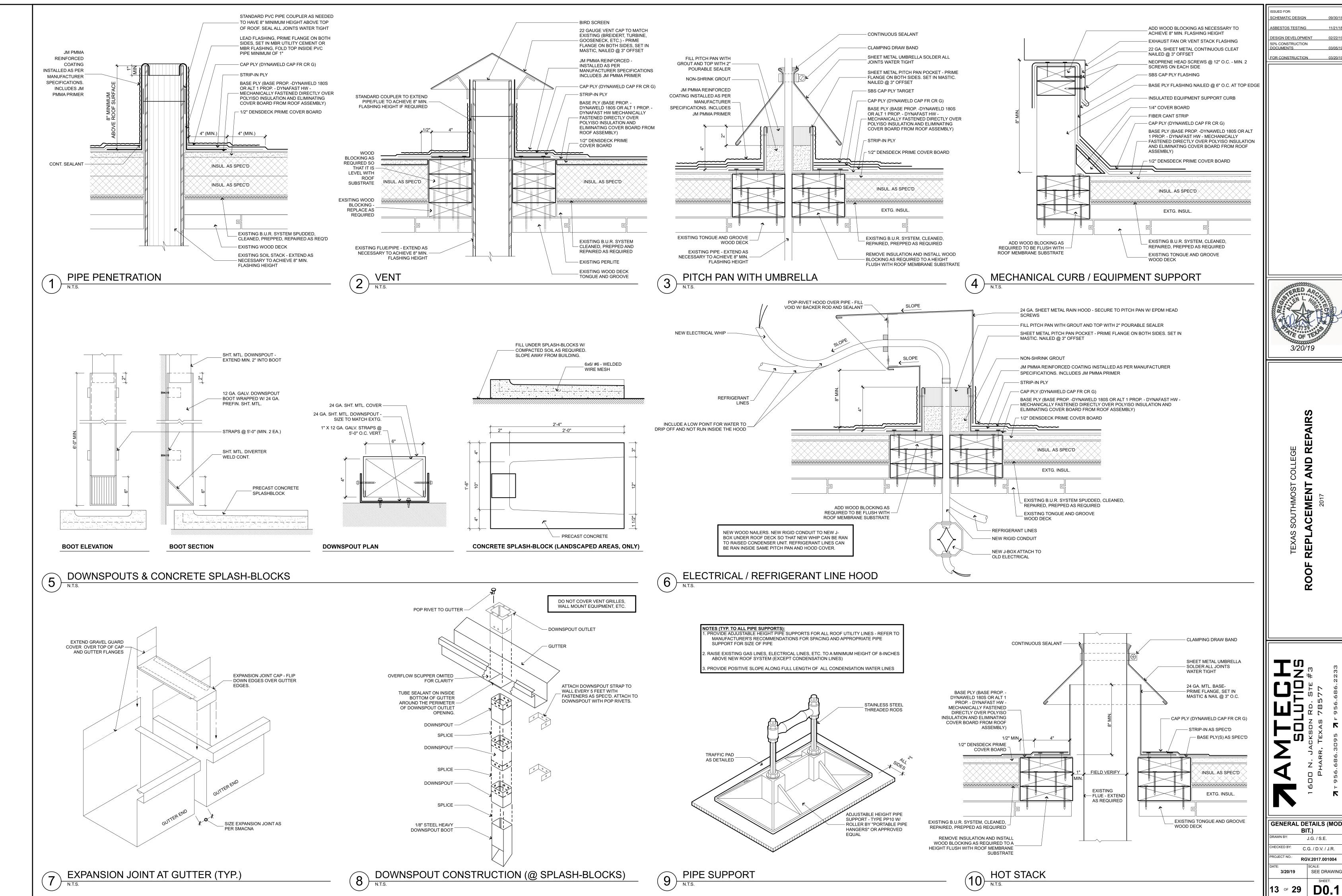
PROPOSAL ASSEMBLY C.G. / D.V. / J.R.

SEE DRAWING

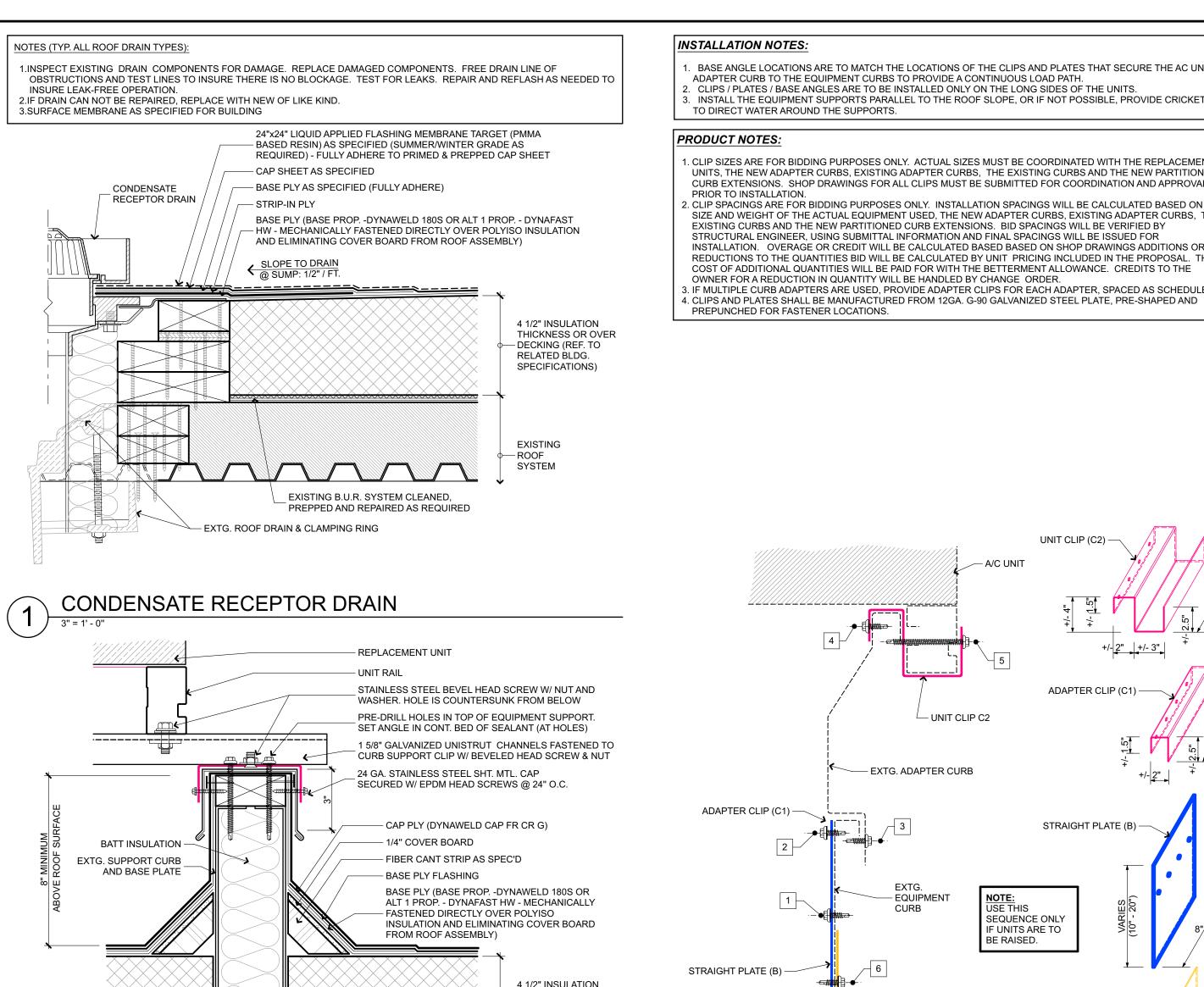
12 of 29 D0.0

Assembly Identification Substrate--Surfacing I = Insulated D = SBS Cap Sheet (Granule Surface) Number of Plies → 2 F Î Ď-HW-CR CR = Mineral Surfaced Cool Roof Sheet Cap Sheet-Cap Sheet Application Method C = Composite CA = Cold Adhesive F = Fiberglass P = Polyester HA = Hot Asphalt HW = Heat Welded - Insulation SUBSTRATE VARIES

Assembly Identification Substrate --Surfacing I = Insulated D = SBS Cap Sheet (Granule Surface) Number of Plies → 2 F I D-HW-CR CR = Mineral Surfaced Cool Roof Sheet Cap Sheet-Cap Sheet Application Method C = Composite CA = Cold Adhesive F = Fiberglass P = Polyester HA = Hot Asphalt HW = Heat Welded Cover Board Insulation - SUBSTRATE VARIES



ACEMENT



THICKNESS OR OVER

— DECKING (REF. TO

SPECIFICATIONS)

EXISTING

SYSTEM

— ROOF

USE #14 CORROSION RESISTANT

EACH SIDE. SIZE SCREWS TO

SELF-DRILLING SCREWS @ 6" O.C.

PENETRATE METAL DECK MIN. 3/4".

MECHANICAL SUPPORT SYSTEM AS SPECIFIED (PHP, UNISTRUT, ETC.)

24 GA. STAINLESS STEEL SHT. MTL. CAP

- CAP PLY (DYNAWELD CAP FR CR G)

FIBER CANT STRIP AS SPEC'D

- 1/4" COVER BOARD

BASE PLY FLASHING

FROM ROOF ASSEMBLY)

USE #14 CORROSION RESISTANT

EACH SIDE. SIZE SCREWS TO

SELF-DRILLING SCREWS @ 6" O.C.

PENETRATE METAL DECK MIN. 3/4".

STAINLESS STEEL BEVEL HEAD SCREW W/ NUT AND

WASHER. HOLE IS COUNTERSUNK FROM BELOW

SECURED W/ EPDM HEAD SCREWS @ 24" O.C.

BASE PLY (BASE PROP. -DYNAWELD 180S OR

- FASTENED DIRECTLY OVER POLYISO

ALT 1 PROP. - DYNAFAST HW - MECHANICALLY

INSULATION AND ELIMINATING COVER BOARD

THICKNESS OR OVER DECKING (REF. TO

RELATED BLDG.

EXISTING — ROOF SYSTEM

SPECIFICATIONS)

INSTALLATION NOTES: BASE ANGLE LOCATIONS ARE TO MATCH THE LOCATIONS OF THE CLIPS AND PLATES THAT SECURE THE AC UNIT ADAPTER CURB TO THE EQUIPMENT CURBS TO PROVIDE A CONTINUOUS LOAD PATH. CLIPS / PLATES / BASE ANGLES ARE TO BE INSTALLED ONLY ON THE LONG SIDES OF THE UNITS. INSTALL THE EQUIPMENT SUPPORTS PARALLEL TO THE ROOF SLOPE, OR IF NOT POSSIBLE, PROVIDE CRICKETS TO DIRECT WATER AROUND THE SUPPORTS.

PRODUCT NOTES: 1. CLIP SIZES ARE FOR BIDDING PURPOSES ONLY. ACTUAL SIZES MUST BE COORDINATED WITH THE REPLACEMENT UNITS, THE NEW ADAPTER CURBS, EXISTING ADAPTER CURBS, THE EXISTING CURBS AND THE NEW PARTITIONED CURB EXTENSIONS. SHOP DRAWINGS FOR ALL CLIPS MUST BE SUBMITTED FOR COORDINATION AND APPROVAL, PRIOR TO INSTALLATION.

2. CLIP SPACINGS ARE FOR BIDDING PURPOSES ONLY. INSTALLATION SPACINGS WILL BE CALCULATED BASED ON THE SIZE AND WEIGHT OF THE ACTUAL EQUIPMENT USED, THE NEW ADAPTER CURBS, EXISTING ADAPTER CURBS, THE EXISTING CURBS AND THE NEW PARTITIONED CURB EXTENSIONS. BID SPACINGS WILL BE VERIFIED BY STRUCTURAL ENGINEER, USING SUBMITTAL INFORMATION AND FINAL SPACINGS WILL BE ISSUED FOR INSTALLATION. OVERAGE OR CREDIT WILL BE CALCULATED BASED BASED ON SHOP DRAWINGS ADDITIONS OR REDUCTIONS TO THE QUANTITIES BID WILL BE CALCULATED BY UNIT PRICING INCLUDED IN THE PROPOSAL. THE COST OF ADDITIONAL QUANTITIES WILL BE PAID FOR WITH THE BETTERMENT ALLOWANCE. CREDITS TO THE OWNER FOR A REDUCTION IN QUANTITY WILL BE HANDLED BY CHANGE ORDER. . IF MULTIPLE CURB ADAPTERS ARE USED, PROVIDE ADAPTER CLIPS FOR EACH ADAPTER, SPACED AS SCHEDULED

ADAPTER CLIP (C1) -- UNIT CLIP C2 — EXTG. ADAPTER CURB ADAPTER CLIP (C1) -STRAIGHT PLATE (B) - EQUIPMENT SEQUENCE ONLY IF UNITS ARE TO BE RAISED. STRAIGHT PLATE (B) — BASE ANGLE (A) FASTENING SEQUENCE KEY BASE ANGLE (A) FIRST GROUP OF FASTENERS **EXISTING ROOF** INSTALLED STRUCTURE LAST GROUP **♦** OF FASTENERS INSTALLED

3 EQUIPMENT ATTACHMENT - UNIT TO ADAPTER CURB

EACH UNIT WILL RECEIVE CLIPS ON (2) SIDES - (THE LONGEST SIDES). THE # OF CLIPS LISTED IN THE TABLE BELOW IS FOR ONE SIDE ONLY. THE FIRST NUMBER IDENTIFIES THE # OF <u>UNIT CLIPS</u> REQUIRED FOR THE LISTED SPACING, WHILE THE SECOND NUMBER IDENTIFIES THE # OF <u>ADAPTER CLIPS</u> REQUIRED. FOR EXAMPLE, A LISTING OF 5/5 INDICATES FIVE (5) UNIT CLIPS PER SIDE, AND FIVE (5) ADAPTER CLIPS PER SIDE. PLEASE NOTE, IF THERE IS NO EXISTING ADAPTER CURB THERE WILL BE NO ADAPTER CLIP COUNT. HOWEVER, IF NO ADAPTER IS CURRENTLY PRESENT, BUT WILL BE NEEDED TO PROPERLY ADAPT THE REPLACEMENT UNIT, ADAPTER CLIPS FOR THIS ADAPTER CURB MUST ALSO BE PROVIDED IN THE BASE BID. IF CLIP FASTENERS LAND OVER OPENINGS IN THE BOTTOM RAIL, INSTALL A 12GA CONTINUITY PLATE OVER THE HOLES AS PER DETAIL 9/D0.2 (THIS PAGE, RIGHT OF THIS NOTE). STRAIGHT PLATES ARE INSTALLED TO PROVIDE LOAD PATH CONTINUITY FROM EITHER A UNIT CLIP OR ADAPTER CLIP, TO THE BASE ANGLE. THE QUANTITY AND LOCATION OF THE STRAIGHT PLATES IS TO MATCH THE QUANTITY AND LOCATION EACH UNIT CURB WILL RECEIVE BASE ANGLES ON (2) SIDES - (THE LONGEST SIDES). THE # OF CLIPS LISTED IN THE TABLE BELOW IS FOR ONE SIDE ONLY. THE BASE ANGLE LOCATIONS ARE TO MATCH THE LOCATIONS OF THE CLIPS AND PLATES THAT SECURE THE AC UNIT / ADAPTER CURB TO THE EQUIPMENT CURBS. REPAIR, PREP AND COLD GALVANIZE ALL CURB ADAPTER CORROSION. REPLACE ALL ADAPTER MOUNTED JUNCTION BOXES WITH NEW AND ALL CONDUITS TO AND FROM THE JUNCTION BOXES WITH NEW. REROUTE ANY ELECTRICAL LINES. IF THEY ARE CURRENTLY RUNNING THROUGH CURB/CURB ADAPTERS AND RELOCATE THE TO RUN THROUGH ROOF PENETRATION TO FACILITATE INSTALLATION OF CURB REINFORCEMENT AND FLASHING.

CLIP QUANTITIES WILL BE DETERMINED BY DIVIDING THE CURB LENGTH (THE LENGTH OF THE LONGEST SIDE) BY THE MAX

ALLOWABLE SPACING OF THE CLIPS (20") AND ROUNDING UP TO THE NEAREST WHOLE NUMBER. ROUNDING IS ALWAYS UP

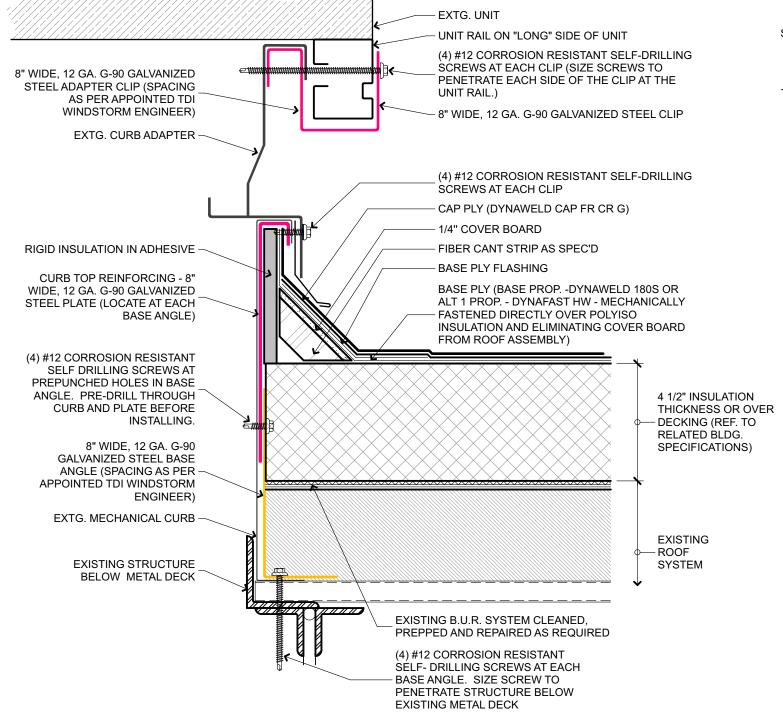
- NEVER DOWN. THIS WILL RESULT IN APPROPRIATE CLIP SPACINGS THAT WILL ALWAYS BE LESS THAN THE MAX

GENERAL NOTES:

CONDENSATE LINES, ETC

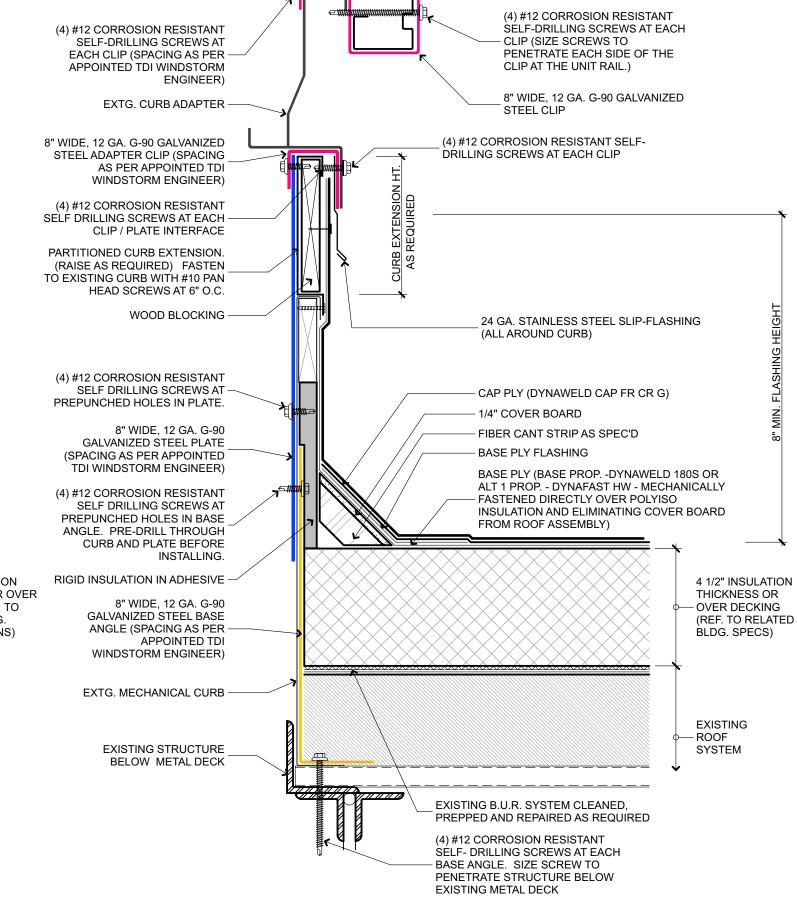
ALL CURBS MUST HAVE A MIN. FLASHING HEIGHT OF 8". FIELD-VERIFY ALL CURBS AND, IF ANY FINAL CURB HEIGHT MAY END UP UNDER 8", EITHER SECURE WRITTEN ACCEPTANCE FROM MEMBRANE MANUFACTURER AS ACCEPTABLE AND WARRANTABLE, OR RAISE IT ACCORDINGLY (RE.: DETAIL 5/D3). NO EXCEPTIONS.

INSTALL ADJUSTABLE PIPE SUPPORTS ON NEW TRAFFIC PADS, AS PER DETAIL 9/D0.1, OVER ALL MEP PIPES, CONDUITS,



REINFORCED EXTG. CURB w/ADAPTER @ METAL DECK w/LWC

- DISCONNECT BOX



COVER PLATE OVER HOLES IN UNIT RAILS

EXTG. HOLE OPENING

- REPLACEMENT UNIT

12" LONG 12 GA. G90 GALVANIZED STEEL

(4) #12 CORROSION RESISTANT SELF-

THE CLIP AT THE UNIT RAIL.)

WINDSTORM ENGINEER)

UNIT RAIL ON "LONG" SIDE OF

- EXTG. UNIT

DRILLING SCREWS AT EACH CLIP (SIZE

SCREWS TO PENETRATE EACH SIDE OF

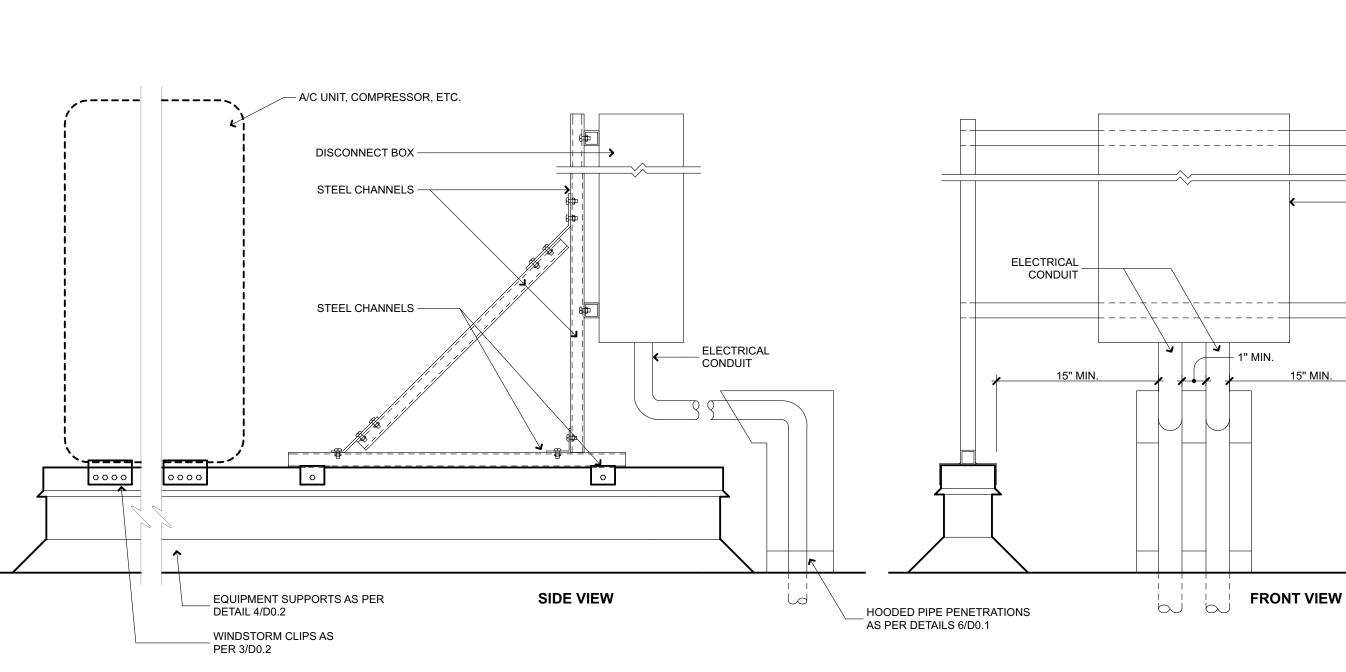
PLATE TO COVER HOLES IN BOTTOM RAIL.

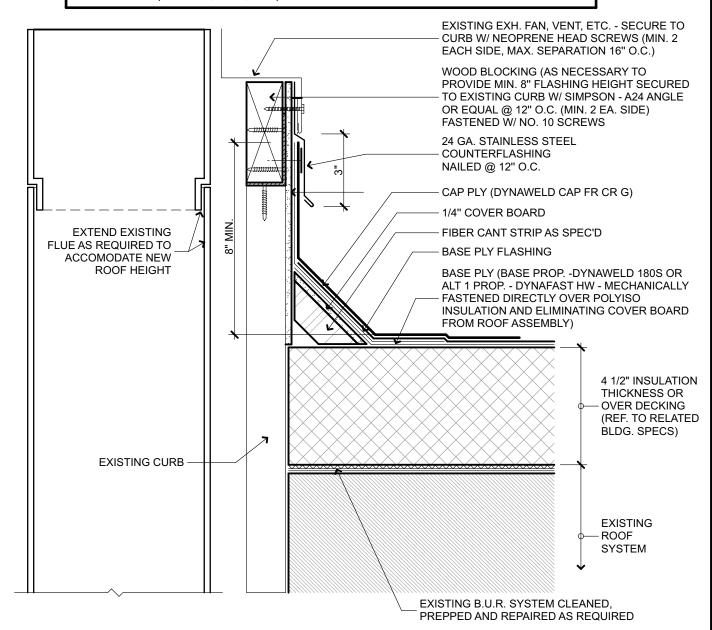
SECURE W/2 FASTENERS @ EACH SIDE OF

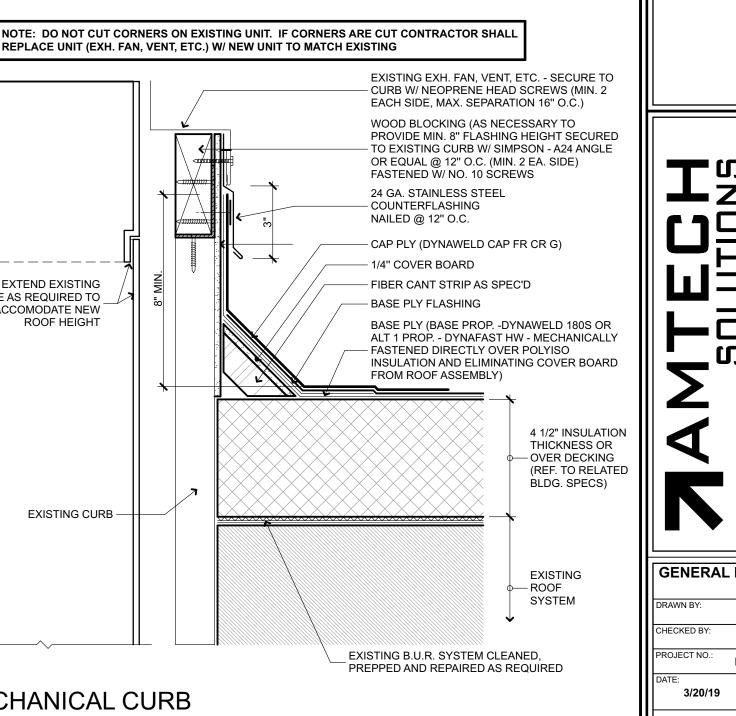
REINFORCED RAISED CURB WADAPTER @ METAL DECK WALWO

REPLACE UNIT (EXH. FAN, VENT, ETC.) W/ NEW UNIT TO MATCH EXISTING

MECHANICAL CURB







REPAIRED AS REQUIRED **EXISTING EQUIPMENT SUPPORT**

EXISTING B.U.R. SYSTEM

CLEANED, PREPPED AND -

8" WIDE, 12 GA. G-90

BATT INSULATION -

AND BASE PLATE

EXTG. SUPPORT CURB

GALVANIZED STEEL CLIP

EXISTING B.U.R. SYSTEM

CLEANED, PREPPED AND -

REPAIRED AS REQUIRED

. **_ _ _ _ _** _ _ _

EXISTING EQUIPMENT SUPPORT

ELECTRICAL BOX SUPPORT

UNIT RAIL ON "LONG" SIDE OF UNIT 8" WIDE, 12 GA. G-90 GALVANIZED STEEL CLIP (SPACING AS PER APPOINTED TDI

SCHEMATIC DESIGN

ASBESTOS TESTING

DESIGN DEVELOPMENT

50% CONSTRUCTION

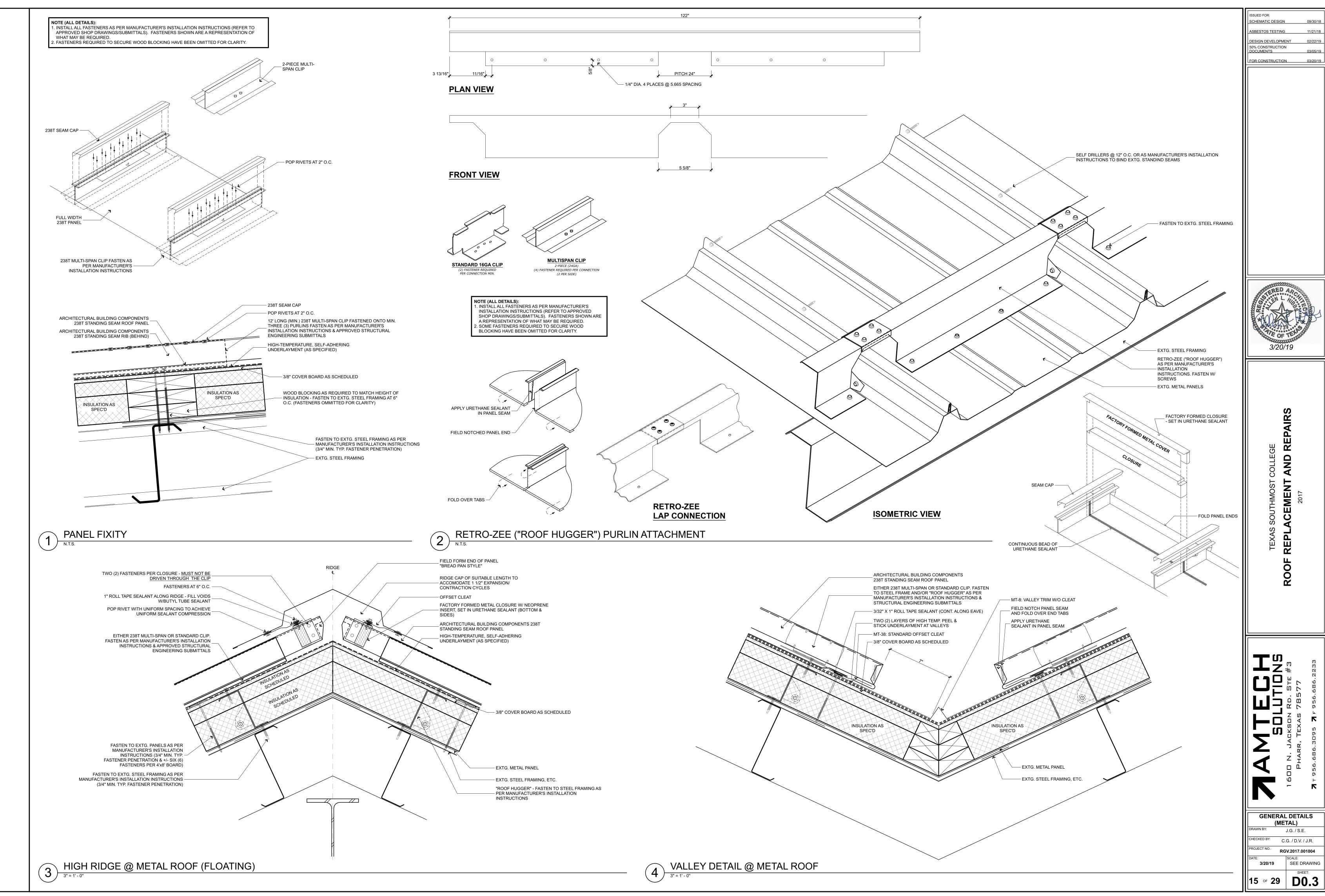
FOR CONSTRUCTION

OCUMENTS

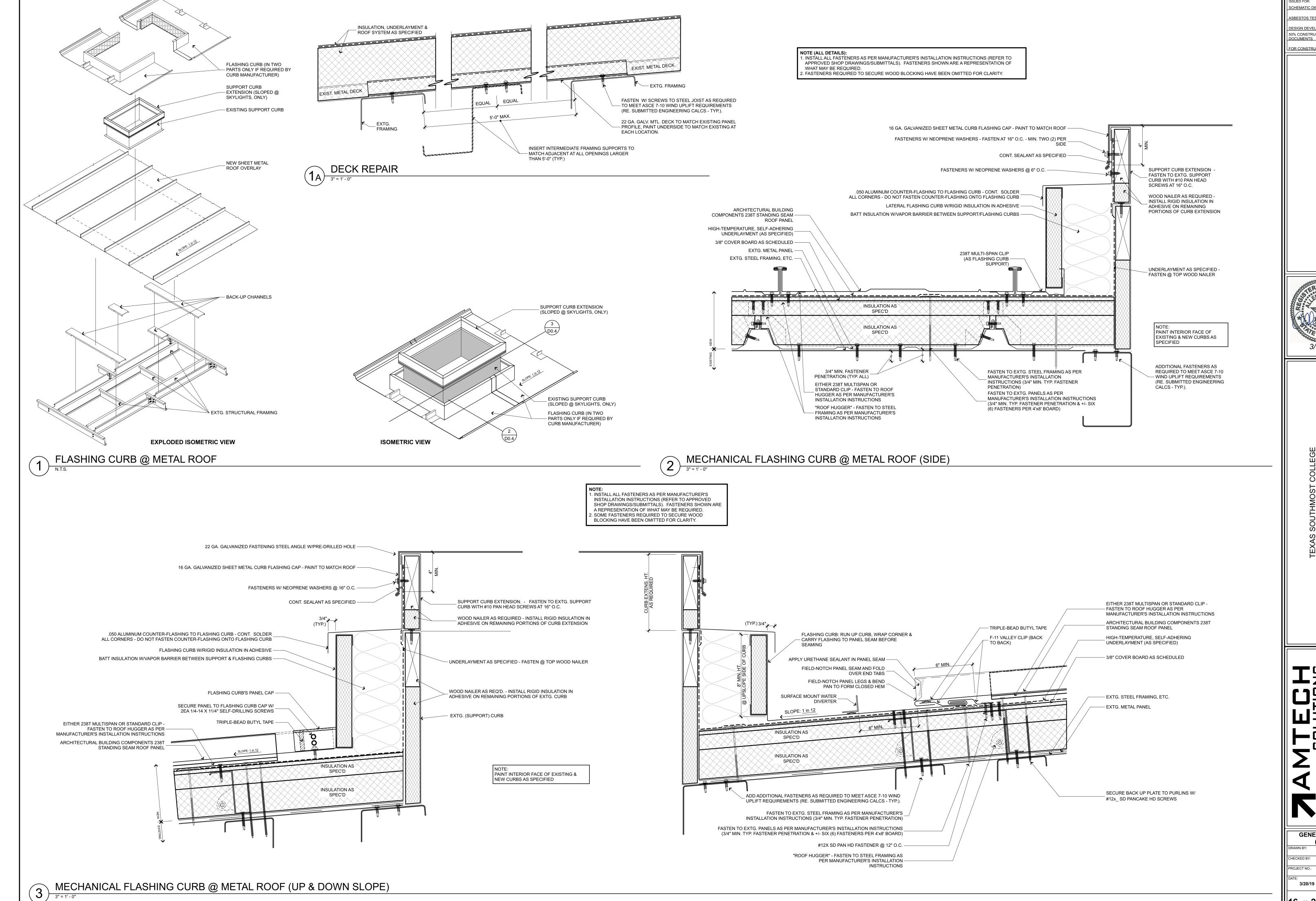
CEMENT REPL,

GENERAL DETAILS (MOD J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

14 of 29 D0.2



GENERAL DETAILS (METAL) J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004



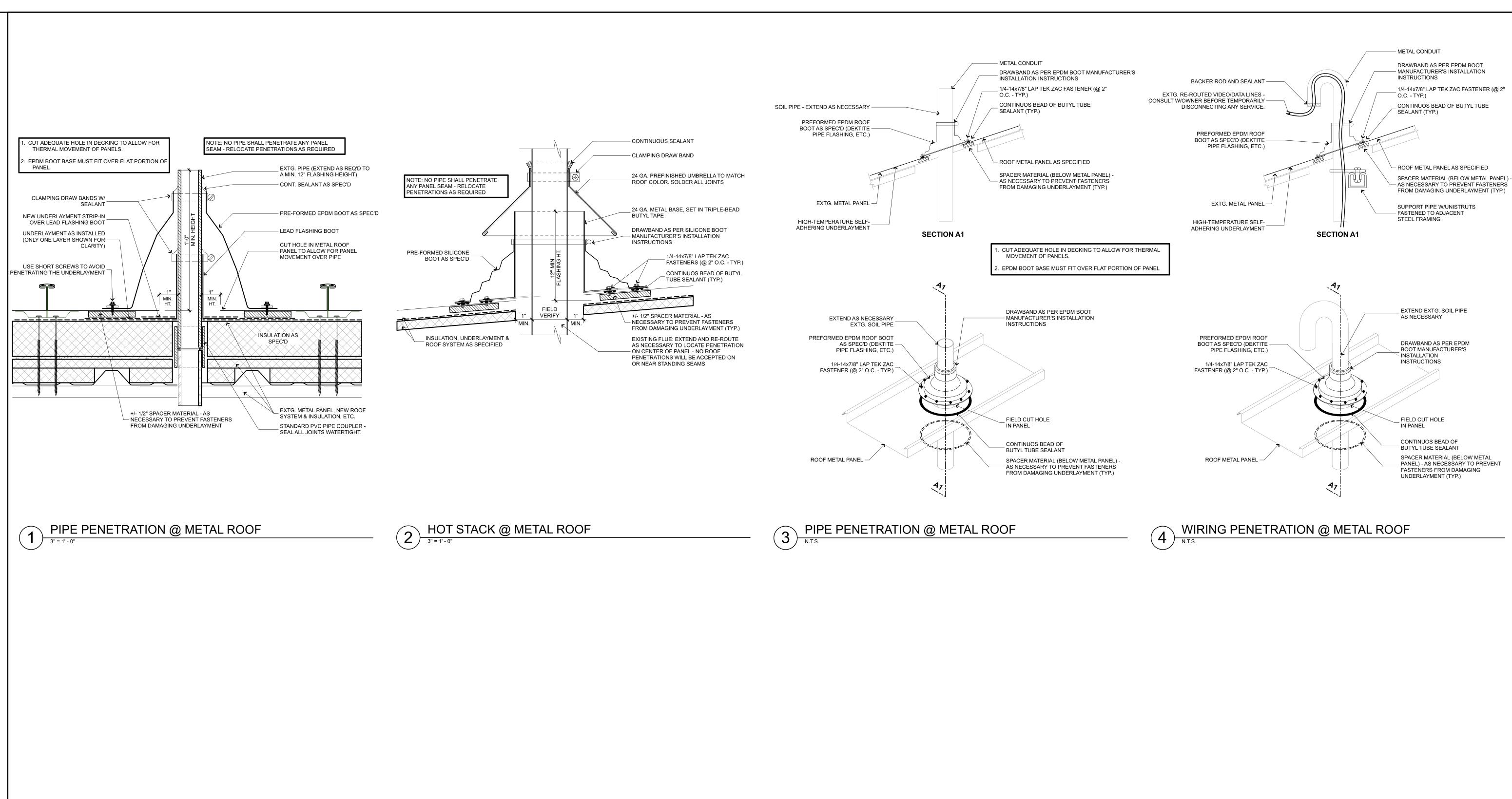
SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT 50% CONSTRUCTION OCUMENTS FOR CONSTRUCTION



CEMENT REPL

GENERAL DETAILS (METAL) J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

16 ∘ 29 **D0.4**



ASBESTOS TESTING

DESIGN DEVELOPMENT 50% CONSTRUCTION

FOR CONSTRUCTION

OCUMENTS

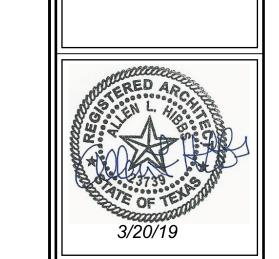


ROOF REPLACEMENT AND REPAIRS

SOLUTIONS
1600 N. JACKSON RD. STE #3
PHARR, TEXAS 78577

| GENERAL DETAILS (METAL) | DRAWN BY: J.G. / S.E. | CHECKED BY: C.G. / D.V. / J.R. | PROJECT NO.: RGV.2017.001004 | DATE: SCALE: SEE DRAWING

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REPLACEMENT

END LAP REPAIR J.G. / S.E. C.G. / D.V. / J.R.

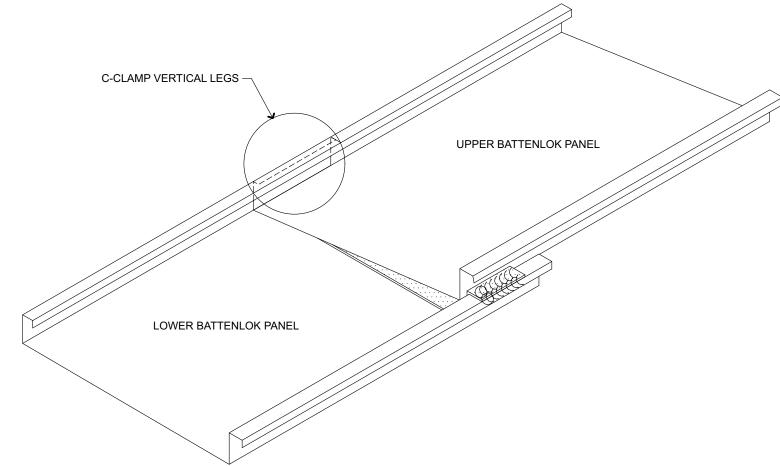
RGV.2017.001004 SCALE: SEE DRAWING

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URETHANE TUBE SEALANT -_ BACK-UP PLATE TRIPLE BEAD TAPE SEAL -**℄ FASTENERS**

A. INSTALL BACK-UP PLATE ON LOWER PANEL B. INSTALL TRIPLE BEAD TAPE AS SHOWN ON TO LOWER PANEL C. INSTALL URETHANE SEALANT AS SHOWN

\ LOWER BATTENLOK PANEL



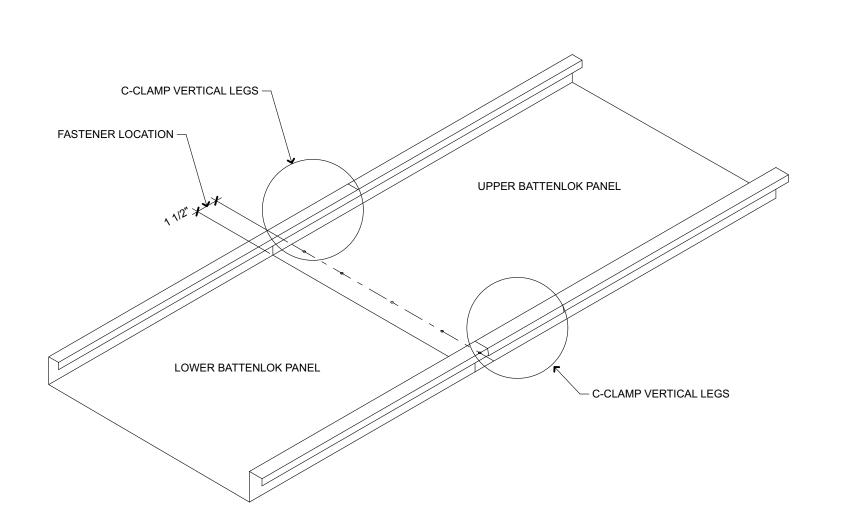
A. C-CLAMP BOTH VERTICAL MALE LEGS TOGETHER PRIOR TO ROTATING UPPER PANEL INTO PLACE

3 UPPER AND LOWER BATTENLOK PANEL

UPPER AND LOWER BATTENLOK PANEL
N.T.S.

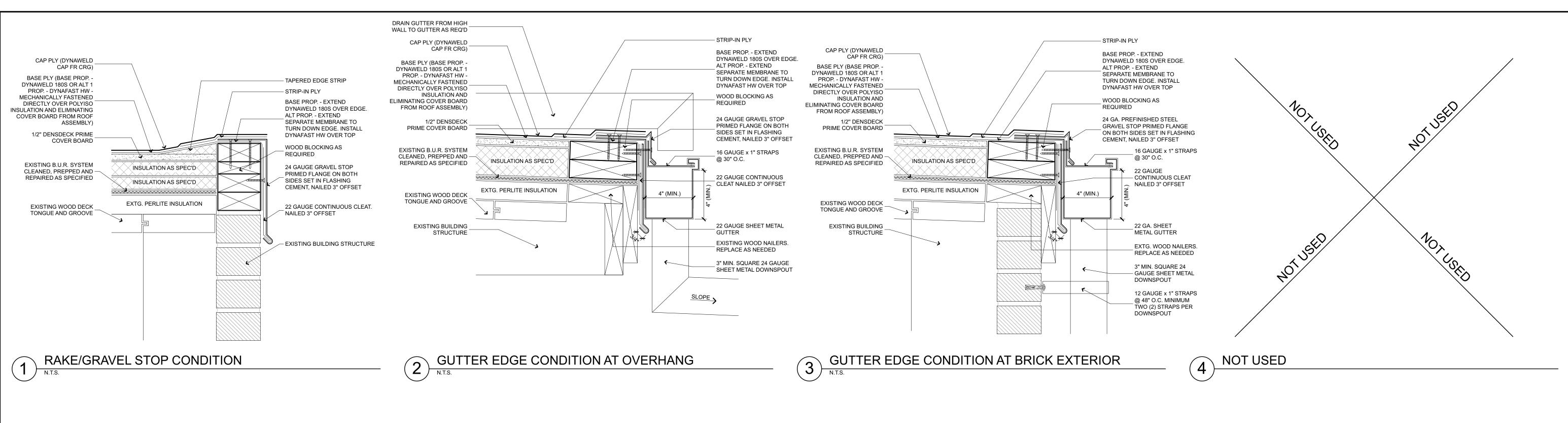
2 UPPER BATTENLOK PANEL N.T.S.

A. FIELD CUT MALE LEG 6" B. FIELD OPEN FEMALE LEG 6" TO ALLOW PANEL LAP TO ENGAGE



1/4-14 X 1 LONG LIFE
'TYPE A-B' SELF-TAPPER
W/ WASHER [FASTENER
#2B] @ 12" O.C.

A. C-CLAMP BOTH FEMALE LEGS TOGETHER
B. INSTALL 1/4-14 X 1 1/4" LONG LIFE FASTENERS (#1E) IN THE SEQUENCE AS SHOWN ABOVE



REMOVE THREE (MIN.) TO FIVE (MAX.)

AND MEMBRANE FLASHING AND SET

BRICK IN MORTAR TO MATCH EXISTING.

REMOVE 4 LINEAR FT. (MAX.) AT A TIME

STAGGERED

- WEEP HOLES @ 32" O.C.

- CONTINUOUS SEALANT

22 GA. SHEET METAL

RECEIVER @ 16" O.C.

- FIBER CANT STRIP

— 1/4" COVER BOARD

ASSEMBLY)

22 GA. SHEET METAL THRU-WALL

FLASHING WITH END DAMS AND

- RECEIVER - SET FLASHING AGAINST

O.C. WITH ZAMAC DRIVE SCREWS

- COUNTERFLASHING SCREW TO

WALLS IN MASTIC AND ANCHOR @ 16"

CAP PLY FLASHING (DYNAWELD CAP FR CR G) NAILED ON 6" ON CENTER AT TOP EDGE

— CAP PLY (DYNAWELD CAP FR CR G)

OR ALT 1 PROP. - DYNAFAST HW -

OVER POLYISO INSULATION AND

INSUL. ÀS SPEC'D

EXTG. INSUL.

ELASTOMERIC COATING FOR WET

ENCAPSULATION OF ACM MATERIALS

EXISTING B.U.R. SYSTEM, CLEANED,

REPAIRED, PREPPED AS REQUIRED -

FLASHING MATERIAL AS SPEC'D EXISTING TONGUE AND GROOVE

ADD WOOD BLOCKING AS

- EXTG. WOOD BLOCKING

- EXTG. BUILDING STRUCTURE

WOOD DECK

REQUIRED

ENCAPSULATE ANY EXTG. ASBESTOS

BASE PLY (BASE PROP. -DYNAWELD 180S

ELIMINATING COVER BOARD FROM ROOF

MECHANICALLY FASTENED DIRECTLY

— 1/2" DENSDECK PRIME COVER BOARD

COURSES OF BRICK. INSTALL RECEIVER

CONTINUOUS

12 GA. x 1" GALV.

TERMINATION -

BAR @ 12" O.C.

REMOVE THREE (MIN.) TO FIVE (MAX.)

AND MEMBRANE FLASHING AND SET

BRICK IN MORTAR TO MATCH EXISTING

REMOVE 4 LINEAR FT. (MAX.) AT A TIME

STAGGERED

- WEEP HOLES @ 32" O.C.

- CONTINUOUS SEALANT

CONTINUOUS SEALANT 22 GA. SHEET METAL

RECEIVER @ 16" O.C.

22 GA. SHEET METAL THRU-WALL

O.C. WITH ZAMAC DRIVE SCREWS

- COUNTERFLASHING SCREW TO

22 GA. SHEET METAL EXPANSION

- 22 GA. CONTINUOUS CLEAT

- SBS BACKER PLY (TG) - FIBER CANT STRIP

- JOINT COVER OVER CONTINUOUS

NEOPRENE HEAD SCREWS AT 12" O.C.

- CAP PLY (DYNAWELD CAP FR CR G)

CAP PLY FLASHING (DYNAWELD CAP FR CR G)

BASE PLY (BASE PROP. -DYNAWELD 180S OR ALT 1

PROP. - DYNAFAST HW - MECHANICALLY FASTENED

ELIMINATING COVER BOARD FROM ROOF ASSEMBLY)

NAILED ON 6" ON CENTER AT TOP EDGE

DIRECTLY OVER POLYISO INSULATION AND

- 1/2" DENSDECK PRIME COVER BOARD

EXTG. INSUL.

ELASTOMERIC COATING FOR WET

ENCAPSULATION OF ACM MATERIALS

EXISTING B.U.R. SYSTEM, CLEANED,

REPAIRED, PREPPED AS REQUIRED -

FLASHING MATERIAL AS SPEC'D

EXISTING TONGUE AND GROOVE

ADD WOOD BLOCKING AS

- EXTG. WOOD BLOCKING

EXTG. EXPANSION JOINT INSULATION FILLER

- EXTG. BUILDING STRUCTURE

WOOD DECK

REQUIRED

ENCAPSULATE ANY EXTG. ASBESTOS

RECEIVER - SET FLASHING AGAINST

WALLS IN MASTIC AND ANCHOR @ 16"

FLASHING WITH END DAMS AND

COURSES OF BRICK. INSTALL RECEIVER

SEALANT

WATER

RISE WALL FLASHING
N.T.S.

PROOFING -

MEMBRANE

CONTINUOUS

12 GA. x 1" GALV.

BAR @ 12" O.C.

SEALANT

TERMINATION -

WATER

PROOFING -

2X WOOD

5 EXPANSION JOINT (ROOF TO BRICK WALL)

TREATED

BLOCKING TO -

ACHIEVE 8" MIN.

FLASHING HEIGHT

FLEXIBLE VAPOR RETARDER WITH COMPRESSIBLE

INSULATION

1/4" COVER BOARD -

MEMBRANE

SSUED FOR

SCHEMATIC DESIGN

ASBESTOS TESTING

DESIGN DEVELOPMENT

50% CONSTRUCTION

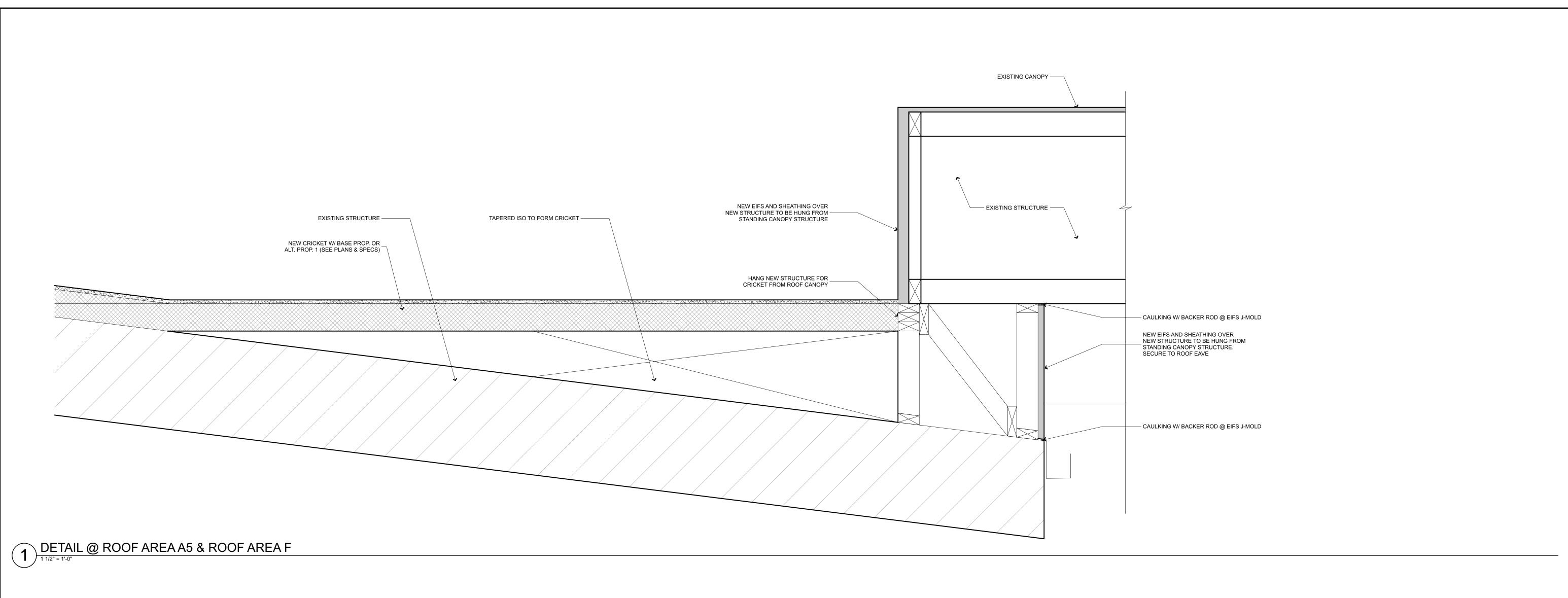
FOR CONSTRUCTION

OCUMENTS

~ N ACEMENT

REPL/

FORT BROWN J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING 3/20/19 19 ∘ 29 D1.1



SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT 50% CONSTRUCTION DOCUMENTS FOR CONSTRUCTION 03/20/19

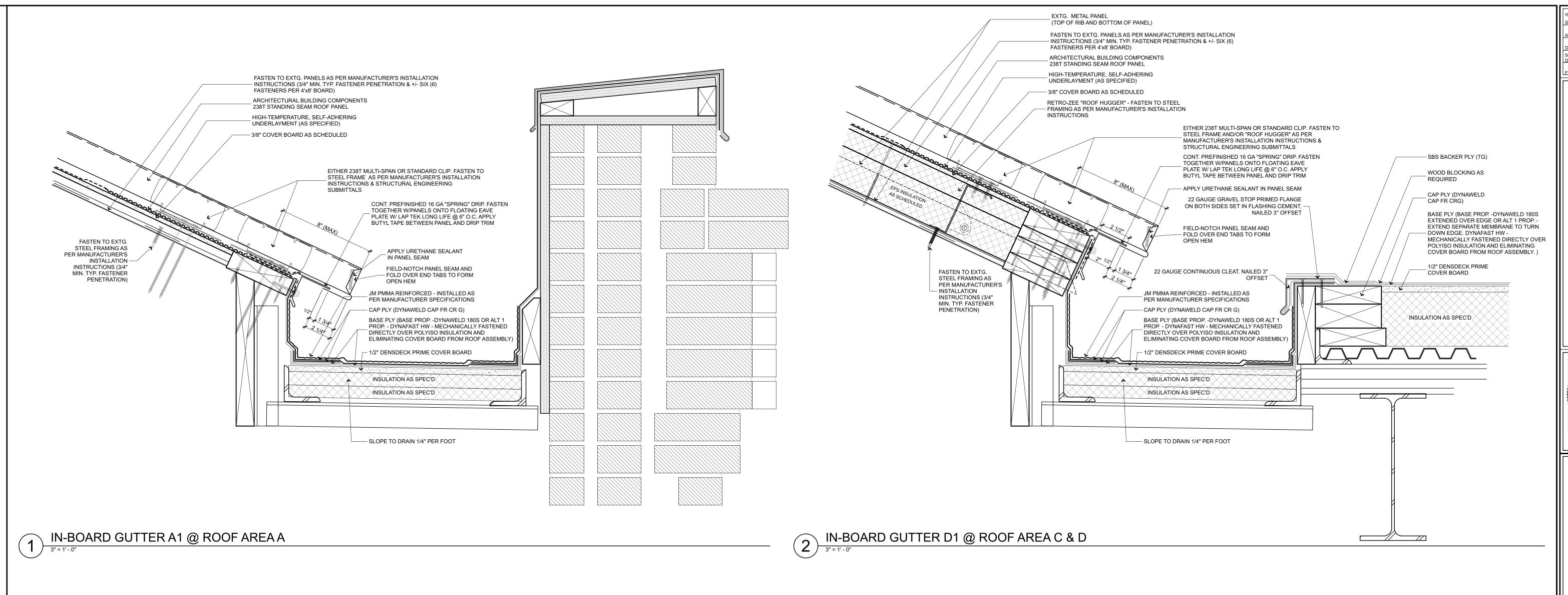


ND REPAIRS TEXAS SOUTHMOST COL

FORT BROWN CHECKED BY: C.G. / D.V. / J.R.

SCALE: SEE DRAWING

20 of 29 D1.2



SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT 50% CONSTRUCTION DOCUMENTS FOR CONSTRUCTION



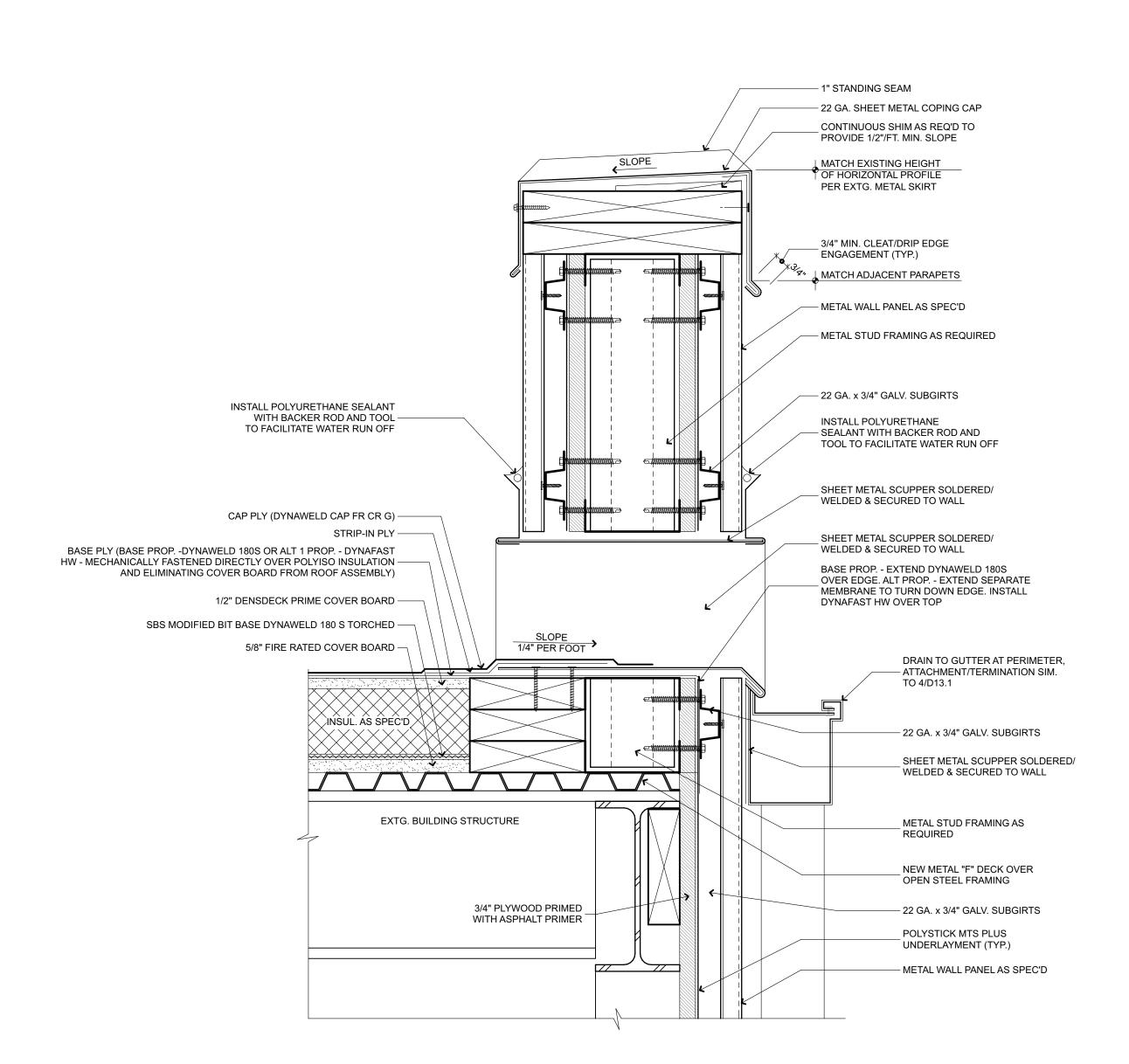
N REPLACEMENT ROOF

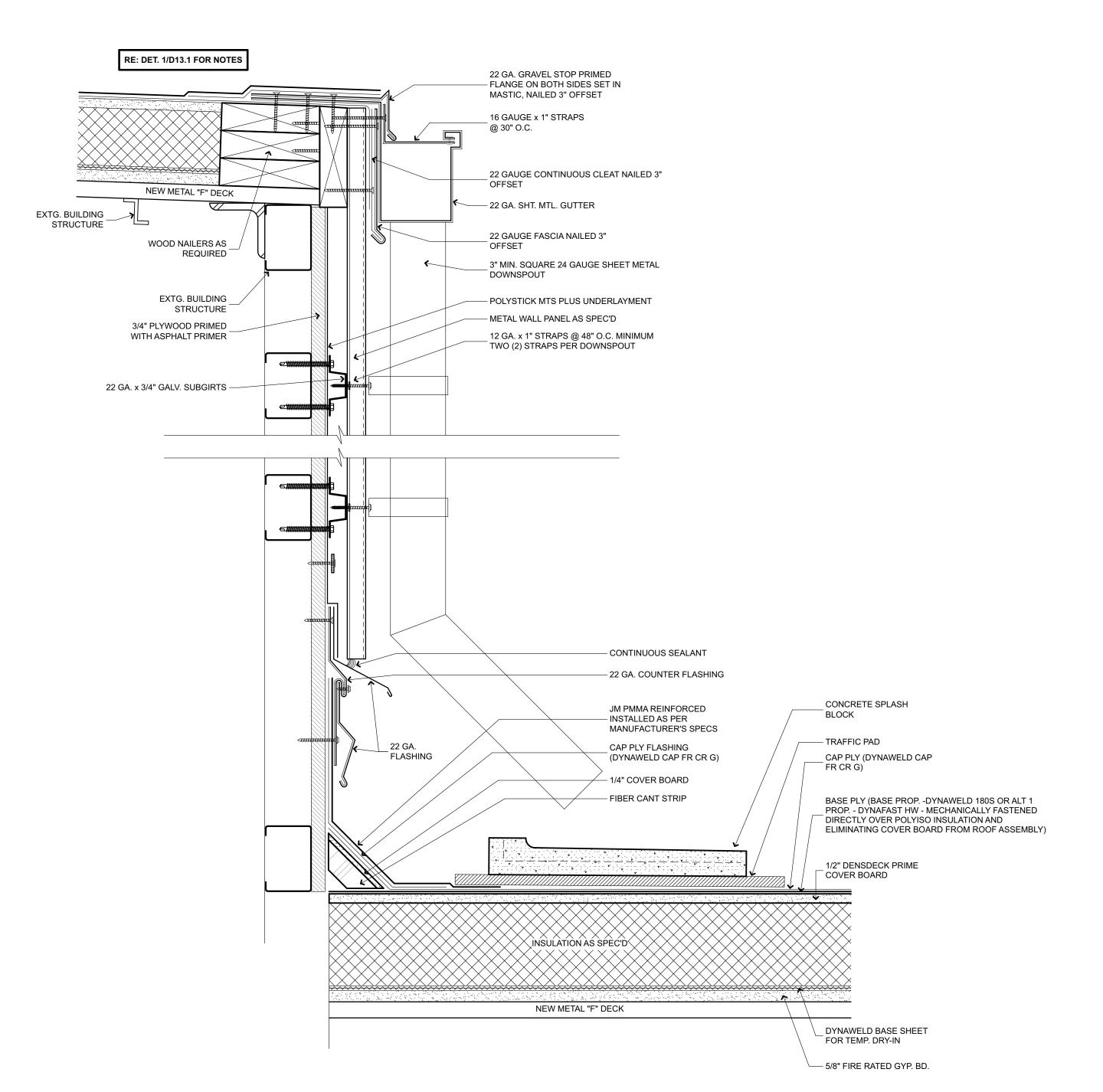
OLIVEIRA STUDENT SERVICES C.G. / D.V. / J.R.

SCALE: SEE DRAWING

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EDGE CONDITION AT BRICK EXTERIOR (BASE PROP.)





SCHEMATIC DESIGN

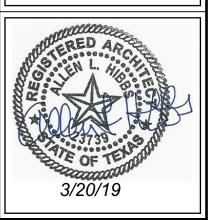
ASBESTOS TESTING

DESIGN DEVELOPMENT

50% CONSTRUCTION

FOR CONSTRUCTION

DOCUMENTS



TEXAS SOUTHMOST COLLEGE

OOF REPLACEMENT AND REPAIRS

AMTECH SOLUTIONS 1600 N. JACKSON RD. STE #3 PHARR, TEXAS 78577

MUSIC BUILDING

DRAWN BY: J.G. / S.E.

CHECKED BY: C.G. / D.V. / J.R.

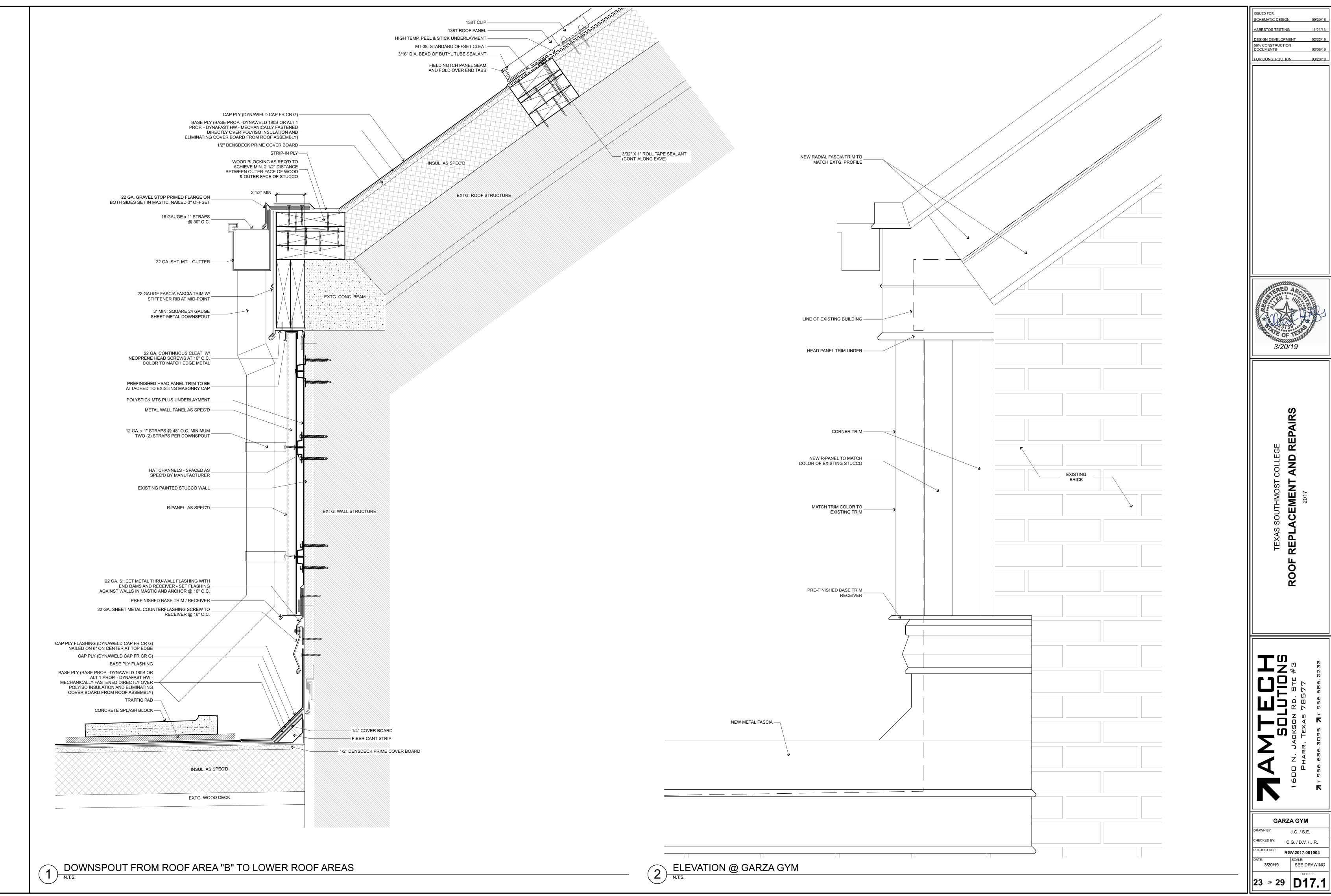
PROJECT NO.: RGV.2017.001004

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SEE DRAWING

OOWNSPOUT FROM ROOF AREA "A" TO AREA "B" (BASE PROPOSAL)

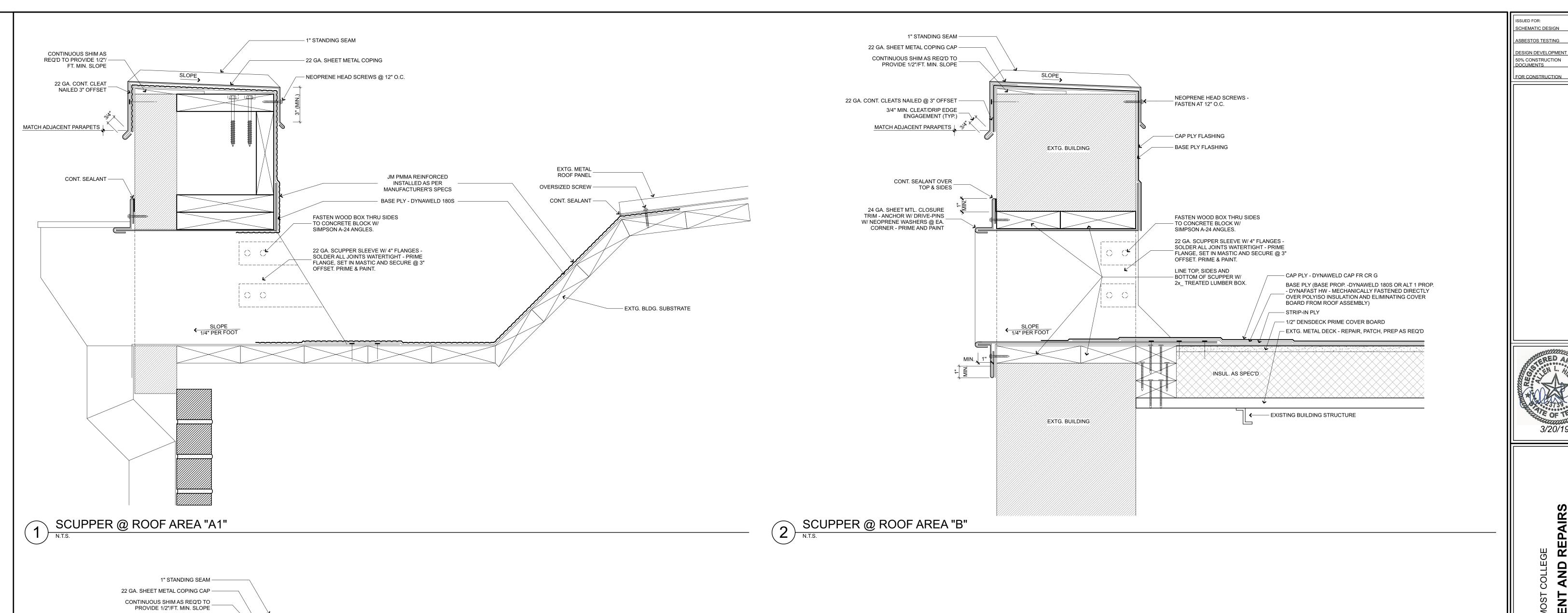
N.T.S.





J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004

SEE DRAWING



NEOPRENE HEAD SCREWS -

INSUL. AS SPEC'D

- FIBER CANT STRIP — 1/4" COVER BOARD

CAP PLY - DYNAWELD CAP FR CR G

— 1/2" DENSDECK PRIME COVER BOARD

BASE PLY (BASE PROP. -DYNAWELD 180S OR ALT 1 PROP. - DYNAFAST HW -— MECHANICALLY FASTENED DIRECTLY OVER POLYISO INSULATION AND ELIMINATING COVER BOARD FROM ROOF ASSEMBLY)

EXTG. METAL DECK - REPAIR, PATCH, PREP AS REQ'D

← EXISTING BUILDING STRUCTURE

FASTEN AT 12" O.C.

— CAP PLY FLASHING — BASE PLY FLASHING

EXTG. BUILDING STRUCTURE

ND REPAIRS REPLACEMENT

GUERRA EARLY CHILDHOOD CENTER J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING

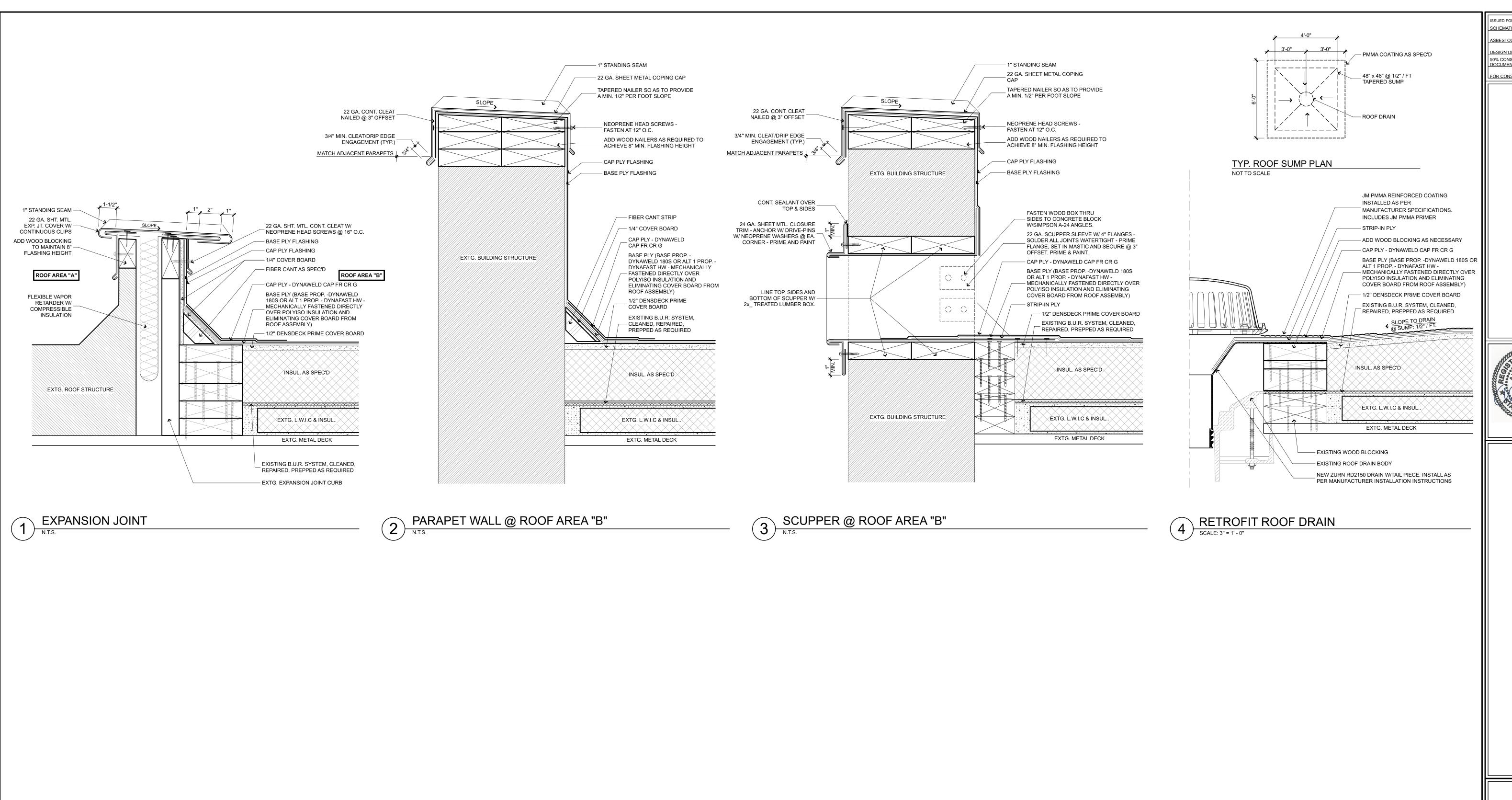
24 of 29 D21.1

3 PARAPET WALL @ ROOF AREA "B"

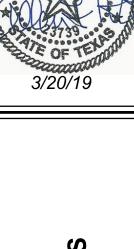
22 GA. CONT. CLEATS NAILED @ 3" OFFSET -

3/4" MIN. CLEAT/DRIP EDGE ENGAGEMENT (TYP.)

MATCH ADJACENT PARAPETS



ISSUED FOR: SCHEMATIC DESIGN ASBESTOS TESTING DESIGN DEVELOPMENT 50% CONSTRUCTION DOCUMENTS FOR CONSTRUCTION



N REPLACEMENT A ROOF

CORTEZ HALL C.G. / D.V. / J.R. SCALE: SEE DRAWING

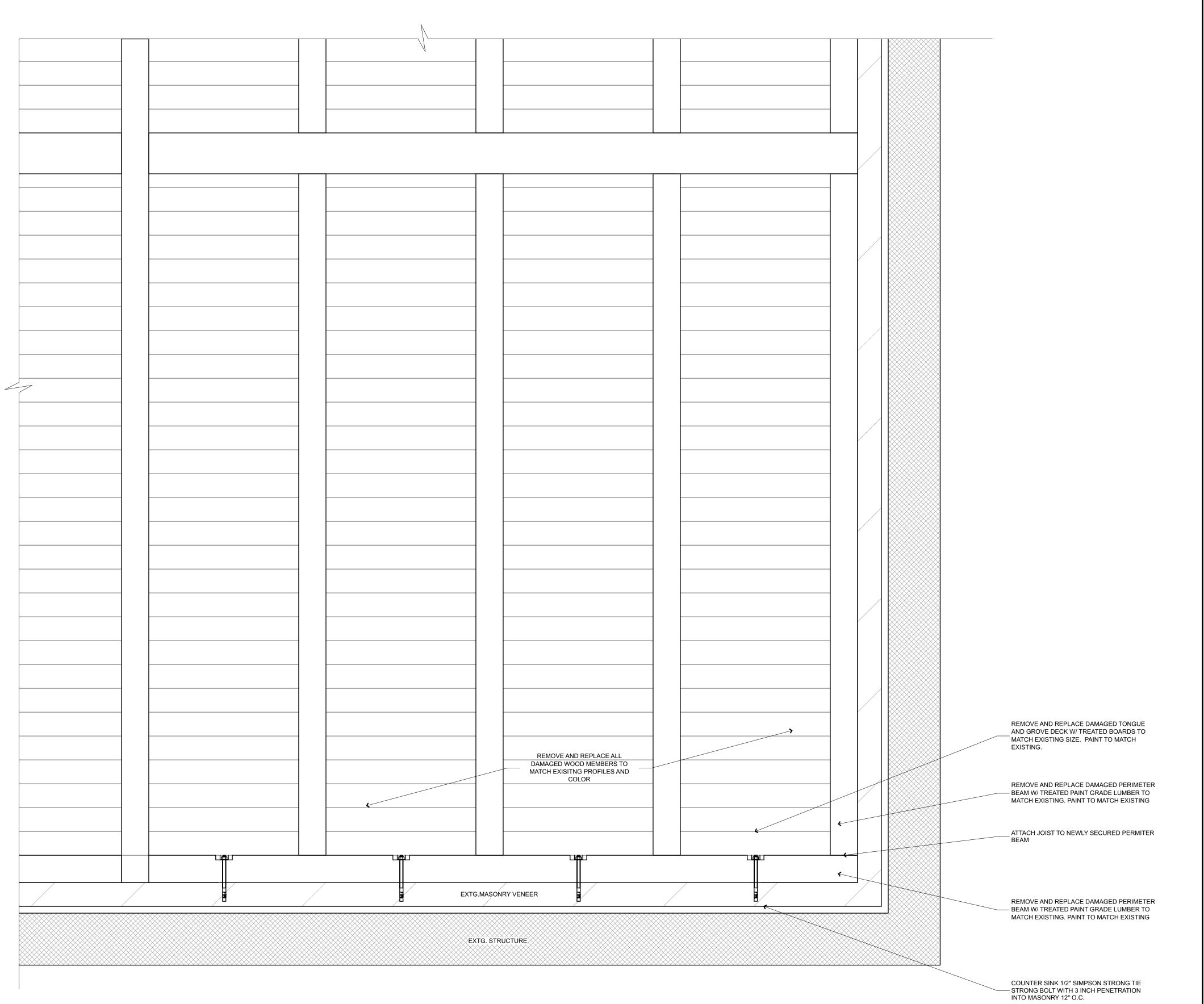
25 of 29 D24.1

PHOTO OF EXISTING CONDITION

NOTE:

1. CONTRACTOR TO PROVIDE ARCHITECT WITH PHOTOS OF DEMOLITION AREAS BEFORE RE-SECURING PERIMETER BEAM.

2. CONTRACTOR TO VERIFY STRUCTURAL INTEGRITY WITH OF ROOF DECK WITH ENGINEER, AND MEDIATE DEFICIENCIES BEFORE REPLACEMENT WORK BEGINS.



 SCHEMATIC DESIGN
 09/30/18

 ASBESTOS TESTING
 11/21/18

 DESIGN DEVELOPMENT
 02/22/19

 50% CONSTRUCTION
 03/05/19

 FOR CONSTRUCTION
 03/20/19



TEXAS SOUTHMOST COLLEGE

ROOF REPLACEMENT AND REPAIRS
2017

SOLUTIONS
1600 N. JACKSON RD. STE #3
PHARR, TEXAS 78577

BOOKSTORE RCP

DRAWN BY: J.G. / S.E.

CHECKED BY: C.G. / D.V. / J.R.

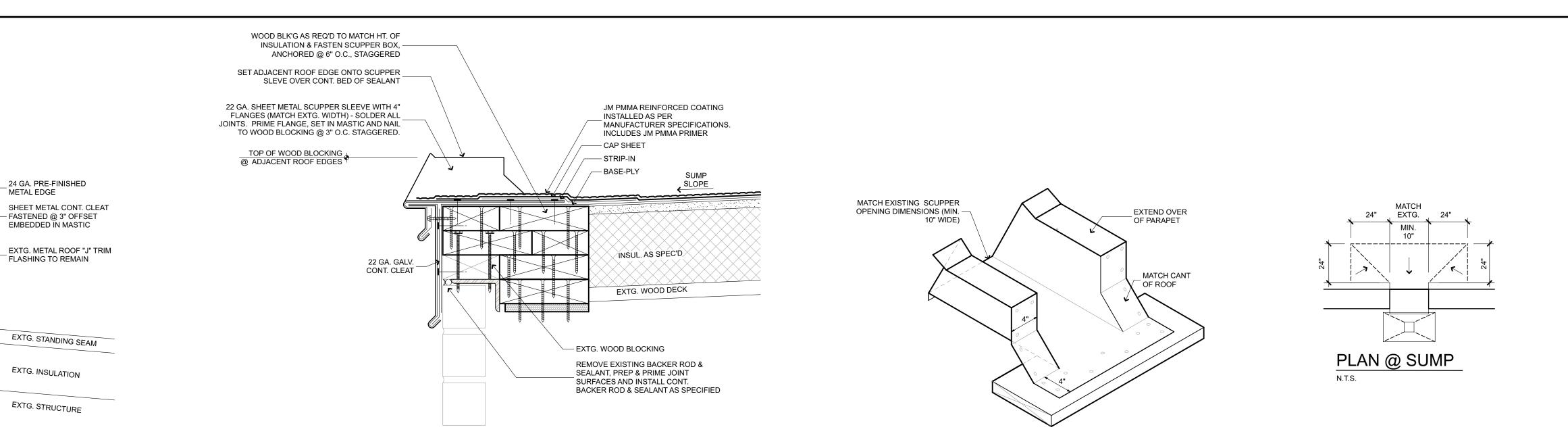
PROJECT NO.: RGV.2017.001004

CHECKED BY: C.G. / D.V. / J.R.

PROJECT NO.: RGV.2017.001004

DATE: SCALE: SEE DRAWING

SHEET: D27.1



ROOF EDGE @ ROOF AREA "B"

BASE FLASHING -

1/4" COVER BOARD —
FIBER CANT STRIP —
CAP PLY - DYNAWELD ____

CAP FR CR G

ROOF ASSEMBLY)

XÍNSÛL. AS SPĒC'D≺

EXTG. WOOD DECK

EXTG. STRUCTURE

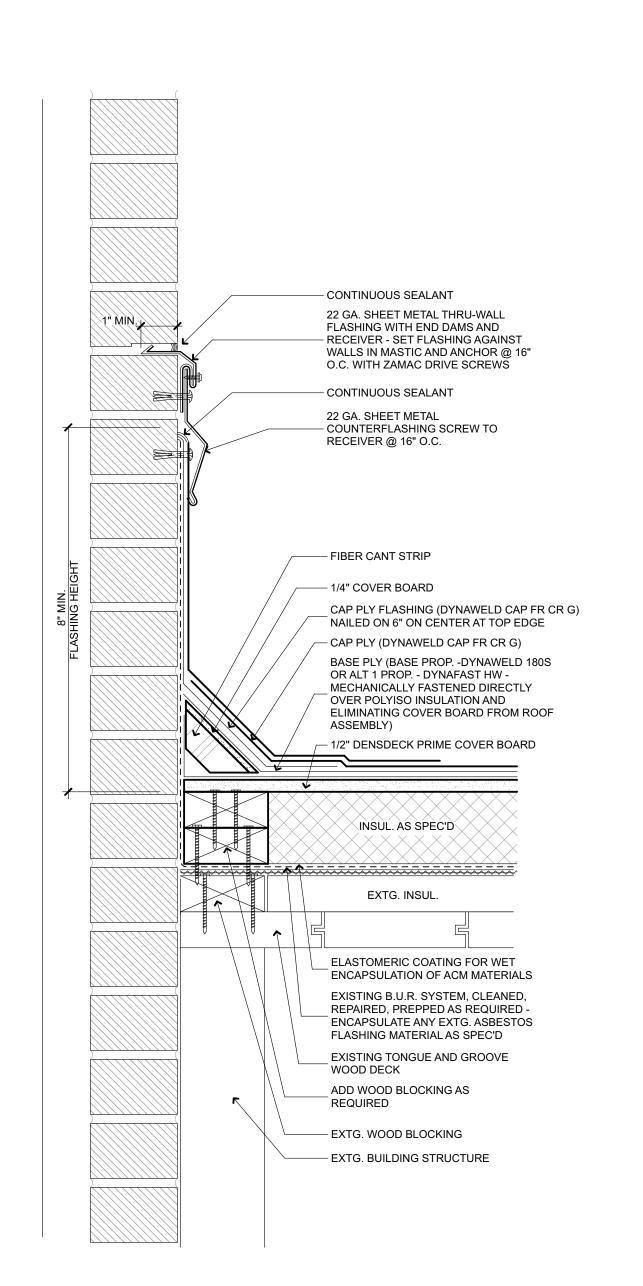
BASE PLY (BASE PROP. -DYNAWELD

180S OR ALT 1 PROP. - DYNAFAST HW MECHANICALLY FASTENED DIRECTLY
OVER POLYISO INSULATION AND
ELIMINATING COVER BARREN

STRIP-IN PLY ----

TYPICAL ROOF EDGE W/ SCUPPER & EXISTING DOWNSPOUT

3" = 1' - 0"



OF TENEDS

SCHEMATIC DESIGN

ASBESTOS TESTING

DESIGN DEVELOPMENT

50% CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION

02/22/19

ROOF REPLACEMENT AND REPAIRS

SOLUTIONS
1600 N. JACKSON RD. STE #3
PHARR, TEXAS 78577

BOOKSTORE

DRAWN BY: J.G. / S.E.

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PROJECT NO.: RGV.2017.001004

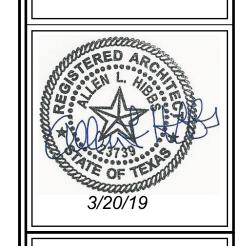
DATE: SCALE:

3/20/19 SEE DRAWING
SHEET:
D27.2

RISE WALL FLASHING
N.T.S.

PUROSES UNTIL APPROVALS ARE MET.

ISSUED FOR:



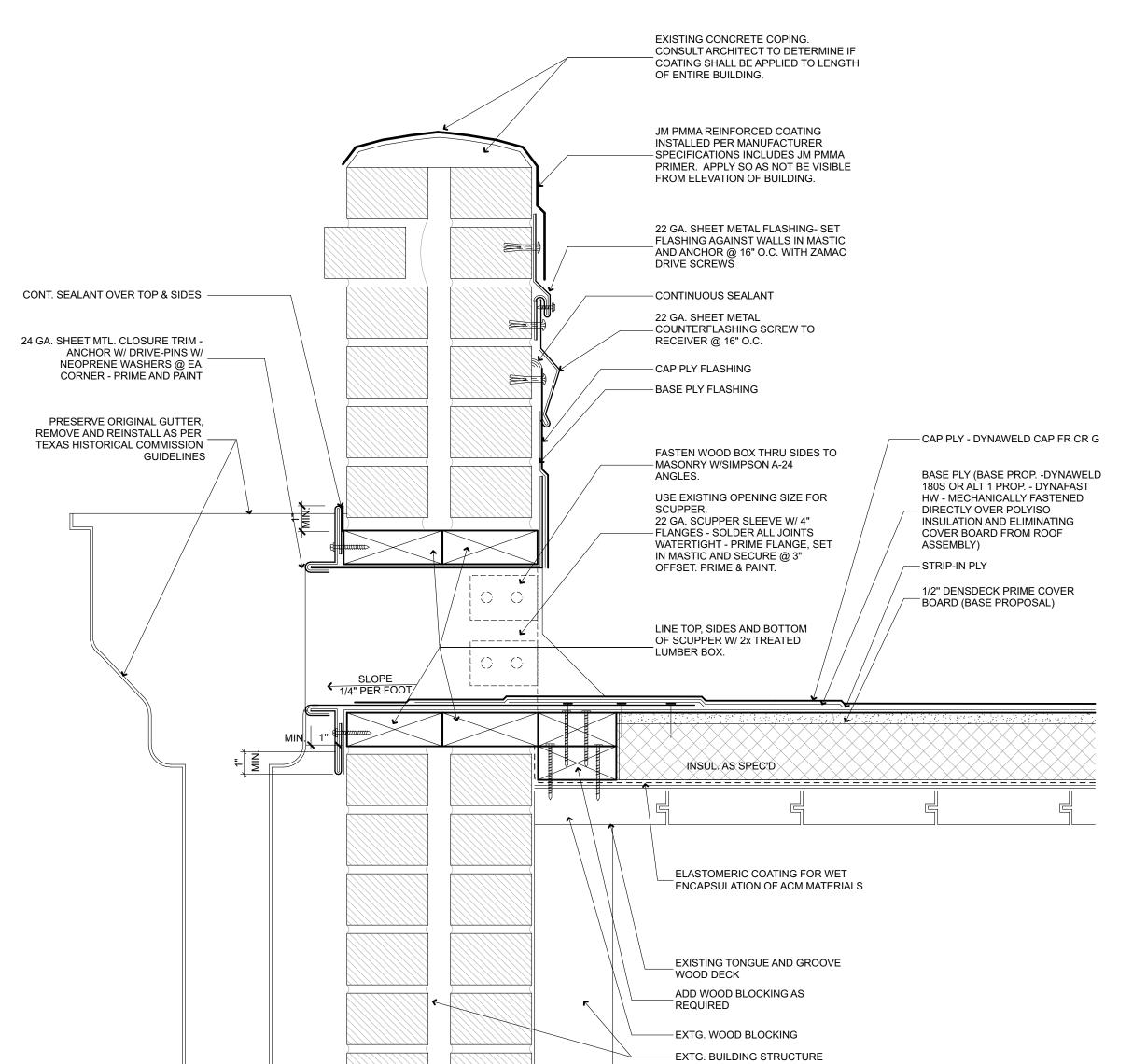
REPAIRS N ACEMENT REPL,

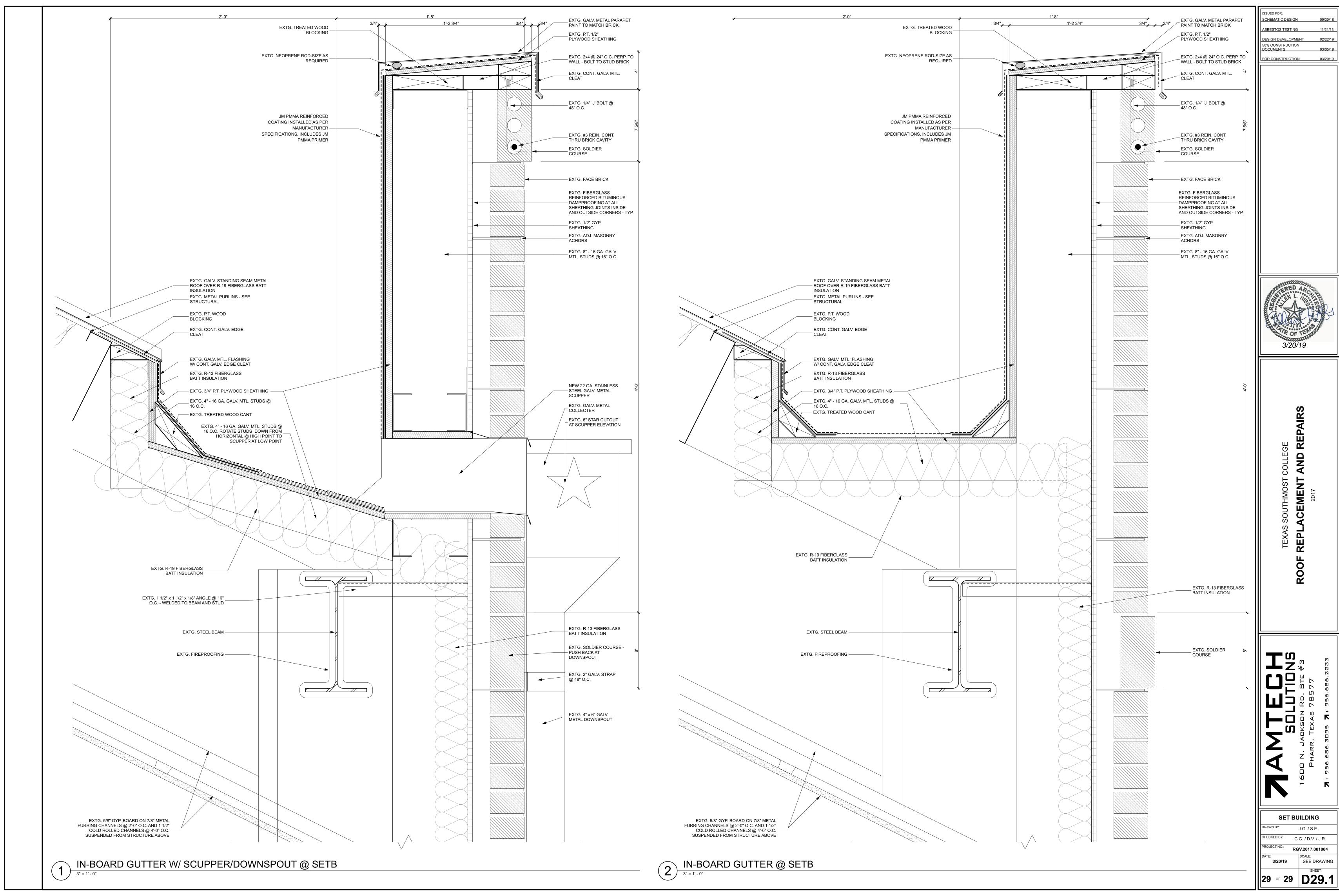
CAVALRY HALL J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004

SEE DRAWING 28 of 29 D28.1

2 SCUPPER @ ROOF AREA "B"

EXISTING CONCRETE COPING. CONSULT ARCHITECT TO DETERMINE IF COATING SHALL BE APPLIED TO LENGTH OF ENTIRE BUILDING. JM PMMA REINFORCED COATING
INSTALLED PER MANUFACTURER
— SPECIFICATIONS INCLUDES JM PMMA PRIMER. APPLY SO AS NOT BE VISIBLE FROM ELEVATION OF BUILDING. 22 GA. SHEET METAL FLASHING- SET FLASHING AGAINST WALLS IN MASTIC AND ANCHOR @ 16" O.C. WITH ZAMAC DRIVE SCREWS - CONTINUOUS SEALANT 22 GA. SHEET METAL — COUNTERFLASHING SCREW TO RECEIVER @ 16" O.C. — FIBER CANT STRIP — 1/4" COVER BOARD CAP PLY FLASHING (DYNAWELD CAP FR CR G) NAILED ON 6" ON CENTER AT TOP EDGE — CAP PLY (DYNAWELD CAP FR CR G) BASE PLY (BASE PROP. -DYNAWELD 180S OR ALT 1 PROP. - DYNAFAST HW -MECHANICALLY FASTENED DIRECTLY OVER POLYISO INSULATION AND ELIMINATING COVER BOARD FROM ROOF ASSEMBLY) — 1/2" DENSDECK PRIME COVER BOARD (BASE PROP.) INSUL AS SPECID ELASTOMERIC COATING FOR WET ENCAPSULATION OF ACM MATERIALS _EXISTING TONGUE AND GROOVE WOOD DECK _ADD WOOD BLOCKING AS REQUIRED — EXTG. WOOD BLOCKING EXTG. BUILDING STRUCTURE





02/22/19

SET BUILDING J.G. / S.E. C.G. / D.V. / J.R. RGV.2017.001004 SEE DRAWING