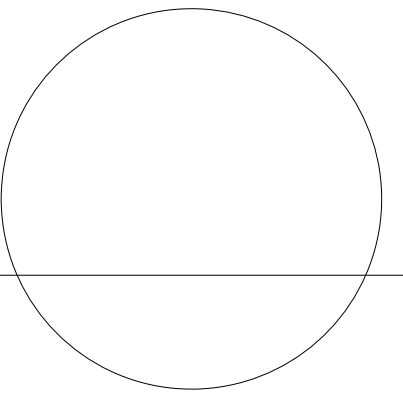
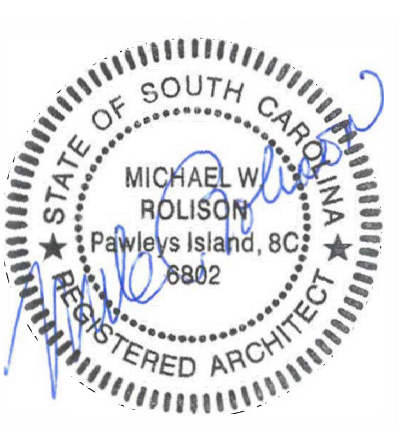


PROPOSED ROOFING REPLACEMENT CONWAY EDUCATION CENTER HORRY COUNTY SCHOOLS 1620 SHERWOOD DRIVE CONWAY, SC

SGA | NW
a GF design company
529A Broadway Street
Myrtle Beach, SC
29577
www.sganwdesign.com
p 843.237.3421

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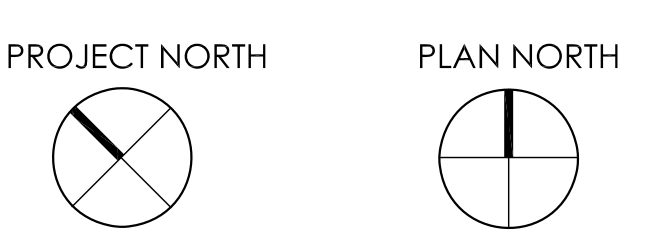
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HORRY COUNTY SCHOOLS CONWAY EDUCATION CENTER RE-ROOFING 1602 SHERWOOD DRIVE CONWAY, SOUTH CAROLINA

REVISION SCHEDULE		
#	DESCRIPTION	DATE

KEY PLAN



SGA | NW DESIGN PROJECT NUMBER:
20225312.04
DESIGNED BY: HK
DRAWN BY: MR
CHECKED BY: LH

ISSUE DATE:
01/17/23

COVER SHEET

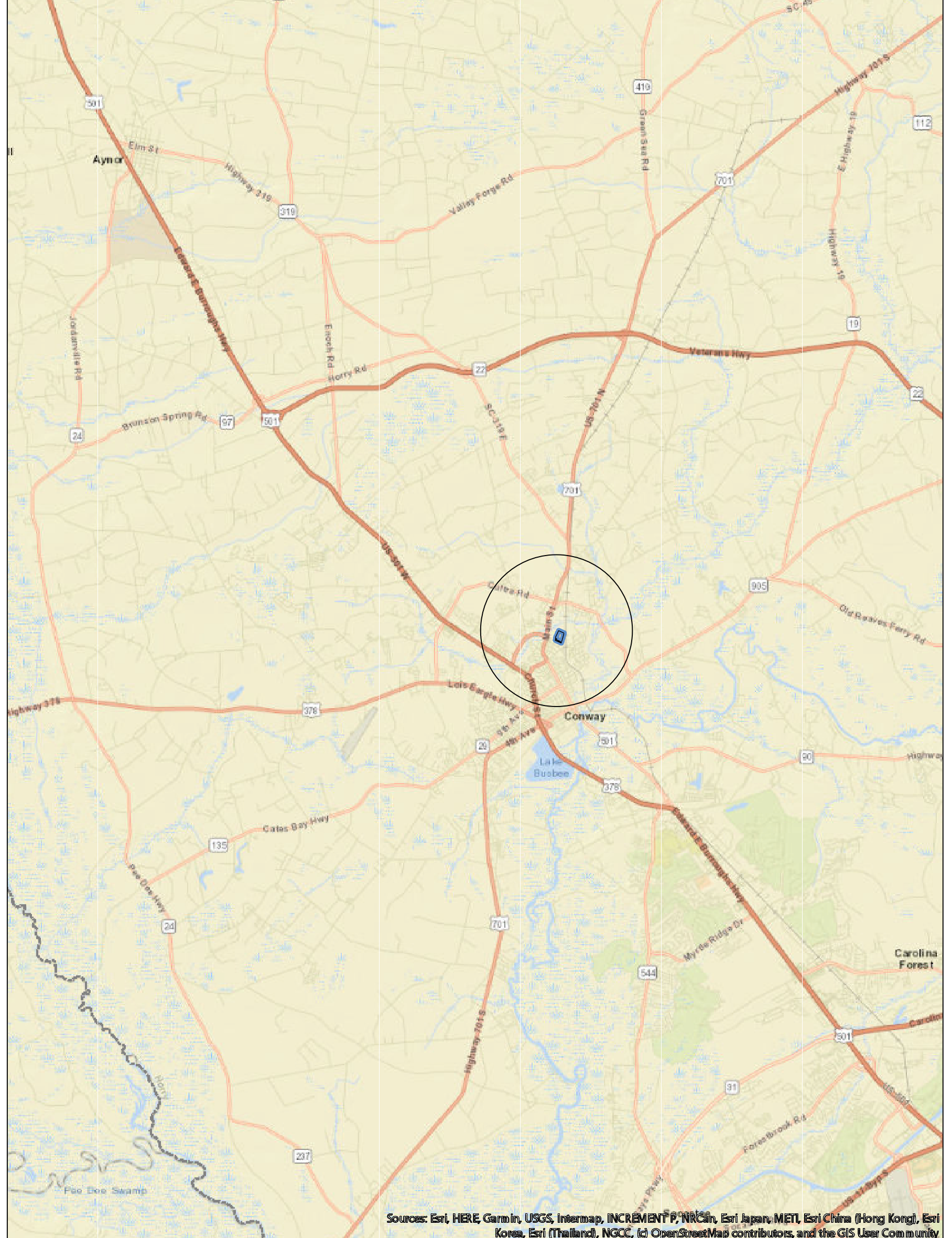
G000

As indicated

SCALE:

LIST OF ABBREVIATIONS

A A.C. A.D. AFF A.I.U. ALT. ALUM. AMP., A. A.O. A.P.C. APPROX. ARCH. A.T. B BAL. BD. BLDG. BLK. BM. BOT. BRG. B.T.U.H. C CAB. CAP. CB C.D. CEM. CEK. C.F.M. CIRC. C.J. CKD EKT. C CEIL. C.L. C.M.U. C.O. COL. CONC. COND. CONN. CONST. CONSTRUCTION CONT. CONTR. JT. CPT. C.T. C.T.B. C.T.O.C. DET. DIA. DIFF. DIM. DISC. D.J. DN. DR. D.S. DWG. (5) E E.A. E.C. E.F. EL. E.I.F.S. ELEC. E.P. EQUIP. E.W.C. EXH. EXP. JT. EXT. EXTD. F F.A. F.C. F.D. F.E.C. FIN. FL. FRP. FT. FTG. G GAL. GALV. G.L. GND. GOVT G.P.H. G.P.M. GR. G.W.B. GRP. H H.B. H.C. HT. H.M. H.P. HR. HTG. HTR. H.V. H.W. HYD. I. I.D. I.E. IN. INCAND. INSUL. INT. J J.B. JCT. JT. K KVA KW L L.B.# LG. L.P. LTG. M M. MAINT. MAX M.D.P. MECH. METL. MIN. MISC. M.O. M.T. MTD. MTG. M.V. M.G.T. M.G.W.B. N N.A. N.I.C. NO. O O.A. O.C. O.D. O.H. O.L. OPNG. OPP. O.S. O.S.D. P PAPER PART. PER. PL. PLAS. PLBG. PLYWD PMP P.N.L. PRESS. PSF PSI PSIG PT. PT. PAINT Q QTR. QUAN. QT R R. R.A. RAD. RB ROUND. RECD RECIRC. RECP. REINF. REQ. RET. RETURN R.G. RM. R.M.G. R.V.M. S.A. S.A.T. SCH. SERV. S.G. SHT. S.J. SPEC. SQ.FT. ST. STOR. STRUC. SUSP. S.V. SW. S.C. T T TEL. TEMP. THK. THD. TOIL. TYP. V V.C.G. VCT. V.T. VENT. VERT. VTR. W WATT W.B. WJ WOOD W.D. W.F. W.G. W.P. WTR. W.W.F. X X Y Y Z Z	AIR CONDITIONED AREA DRAINED ABOVE FINISH FLOOR AIR HANDLING UNIT ALTERNATE ALUMINUM AMPERES ACCESS OPENING ACOUSTICAL PANEL CEILING ARCHITECTURALLY ASPHALT TILE ACOUSTICAL CEILING TILE BALANCE BOARD BUILDING BLANK BEAM BOTTOM BEARING BRITISH THERMO UNITHR. CABINET CAPACITY CIRCUIT BREAKER CEILING DIFFUSER CEMENT CERAMIC CUBIC FEET/MINUTE CIRCULATING CONTROL JOINT CHECKERED CIRCUIT CENTERLINE CEILING CLOSURE CONCRETE MASONRY UNIT CLEAN OUT COLUMN CONCRETE CONDENSATE CONNECTION CONST. CONSTRUCTION CONTINUOUS CONTRACTION JOINT CARPET CERAMIC TILE CERAMIC TILE BASE CENTER TO CENTER DET. DIAMETER DIFFUSER DIMENSION DISCONNECT DUMMY JOINT DOWN DRAIN DOWN SPOUT DRAWING(S) EACH EMPTY CONDUIT EXHAUST FAN ELEVATION EXTERIOR INSULATION FINISH SYSTEM ELECTRIC EPOXY PAINT EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXP. JT. EXPANSION EXTERIOR EXTENDING FIRE ALARM FLEXIBLE CONNECTION FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISH FLOOR FIBERGLASS REINFORCED POLYESTER PANEL FOOT-FEET FOOTING GAUGE GALLON GALVANIZED GLASS GROUND GOVERNMENT GALLONSHOUR GALLONSMIN. GRILLE GYPSUM WALL BOARD GYPSUM TOILET TELEPHONE TEMPERATURE THICKNESS THRESHOLD TOILET TYPICAL VOLT VINYL COVERED GYPSUM CEILING VINYL COMPOSITION TILE VINYL TILE VENTILATION VERTICAL VENT THRU ROOF WATT WALL BASE WJ WOOD W.D. WIDE FLANGE WATER GAGE WEATHERPROOF WATER WELDED WIRE FABRIC
--	--



LOCATION MAP NO SCALE

GENERAL NOTES:

- THESE GENERAL REQUIREMENTS ARE INTENDED TO SUPPLEMENT AND, WHERE MORE STRINGENT, SUPERSEDE THE "GENERAL CONDITIONS" AND "SUPPLEMENTAL GENERAL CONDITIONS" OF THE CONTRACT BETWEEN OWNER AND CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED BUILDING DEPARTMENT PERMITS AND SCHEDULE ALL REQUIRED INSPECTIONS.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURERS' LATEST PRINTED INSTRUCTIONS, AND ACCEPTED TRADE STANDARDS, UNLESS MORE STRINGENT METHODS ARE SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS.
- ALL DOCUMENTS ARE DESIGNED TO IBC 2018 STANDARDS. THE CONTRACTOR SHALL BUILD THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND SAFETY STANDARDS AND/OR REGULATIONS.
- THE DESIGN PROFESSIONALS SHALL HAVE NO CONTROL OVER (NOR RESPONSIBILITY FOR) THE CONTRACTORS' MEANS, METHODS, SEQUENCE, TECHNIQUES, PROCEDURES OR QUALITY CONTROL IN PERFORMING THE WORK. SITE SAFETY OR SAFETY PROGRAMS IN CONNECTION WITH THIS PROJECT. THESE ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ALL REGULATORY AGENCIES.
- ALL DRAWINGS IN THIS SET, INCLUDING NOTES AND DETAILS, BECOME PART AND PARCEL OF THE PROJECT MANUAL AND ARE TO BE USED IN CONJUNCTION WITH ALL SPECIFICATION DIVISIONS AND SECTIONS AND ALL OTHER DOCUMENTS INCORPORATED BY REFERENCE.
- ALL NOTES AND DETAILS SHALL BE UNDERSTOOD BY THE CONTRACTOR AND HIS SUBCONTRACTORS PRIOR TO STARTING WORK. THE CONTRACTOR SHALL MAINTAIN CONTROL OVER HIS SUBCONTRACTORS TO ASSURE COMPLETENESS AND GOOD QUALITY OF ALL WORK AT THE SITE.
- ALL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER DRAWINGS RELATED TO OTHER DISCIPLINES. THE GENERAL CONTRACTOR SHALL CHECK AND COORDINATE DIMENSIONS AND CLEARANCES WITH THE WORK OF ALL TRADES.
- CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE PRIOR TO COMMENCEMENT OF THE WORK, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES AND/OR ANY EXISTING SITE CONDITIONS THAT ARE INCONSISTENT WITH THE WITH THE DRAWINGS.
- LARGE SCALE DETAILS OR DRAWINGS SHALL GOVERN SMALL SCALE DRAWINGS, WHICH THEY ARE INTENDED TO AMPLIFY.
- DETAILS OR CONDITIONS INDICATED FOR A PORTION OF THE WORK, BUT THAT ARE NOT REPEATED FULLY FOR OTHER PORTIONS SHALL APPLY THROUGHOUT TO ALL SIMILAR PORTIONS EXCEPT AS OTHERWISE SPECIFICALLY NOTED.



SITE MAP NO SCALE

SYMBOL LEGEND

Room name	ROOM NAME AND NUMBER
101	ROOM NAME AND NUMBER
(133A)	DOOR NUMBER
11	WINDOW LETTER
A4	ACCESSORY / EQUIPMENT NUMBER
1 A101	SECTION REFERENCE
1 A101	ELEVATION REFERENCE
1 A101	DETAIL REFERENCE

CODES AND REGULATIONS

- CODES COMPLIANCE REVIEW AND RELATED INFORMATION (AS OF DATE 01/24/22)
PROJECT DESIGN IN ACCORDANCE WITH:
- The International Building Code, 2018 Edition
 - The International Plumbing Code, 2018 Edition with modifications
 - The International Mechanical Code, 2018 Edition with modifications
 - The International Fuel Gas Code, 2018 Edition with modifications
 - The International Fire Code, 2018 Edition with modifications
 - The National Electrical Code NFPA 70, 2017 Edition
 - The National Electrical Safety Code ANSI - C2-2017 Edition
 - National Fire Protection Association NFPA 98, 2012 Edition
 - International Energy Conservation Code, 2009 Edition with modifications
 - ASHRAE/IESNA 90.1-AS REFERENCED BY ICC, Energy Efficient Design of New Buildings
 - ANSI/ASHRAE 62 AS REFERENCED BY ICC, Ventilation for Acceptable Indoor Air Quality
 - ICC/ANSI A117.1 LATEST EDITION, Providing Accessibility and Usability for Physically Handicapped
 - Americans with Disabilities Act (ADA), latest edition
 - Erosion and Sediment Reduction and Stormwater Management Regulations (R.72-101 through R.72-106, latest revision)
 - OFFICE OF SCHOOL FACILITIES (SC Department of Education) planning Guide 2020

PROJECT INFORMATION

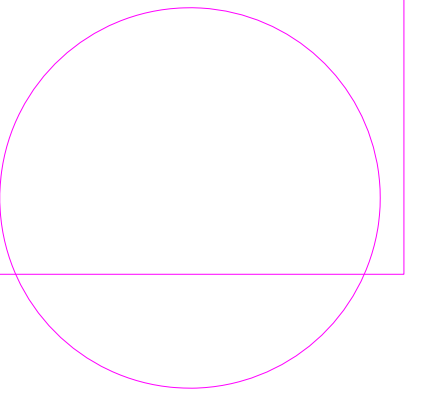
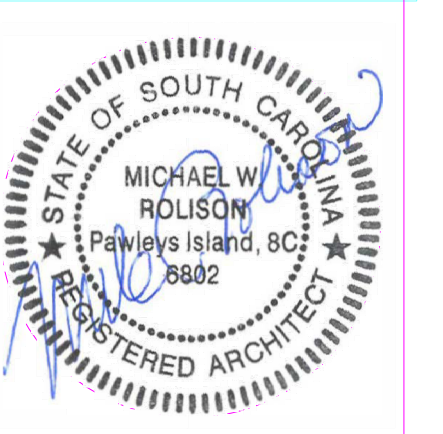
A. TYPE OF CONSTRUCTION:	ROOFING REPLACEMENT
B. FACILITY NAME:	CONWAY EDUCATION CENTER
C. FACILITY ADDRESS:	1620 SHERWOOD DRIVE, CONWAY, SC
D. COUNTY:	HORRY
E. LOCAL FIRE DEPARTMENT:	Horry County Fire/Rescue
F. WATER SUPPLY:	Grand Stand Water 4 Sewer District
G. BUILDING INSPECTION DEPARTMENT:	Horry County
H. ARCHITECT:	SGA NW Design a GF Design Co. 8263 OCEAN HWY. Pawleys Island, South Carolina 29565 Michael W. Rolison, AIA, LEED AP

LIST OF DRAWINGS

GENERAL	COVER SHEET
AS100	SITE PLAN
ARCHITECTURE	
A101	FLOOR PLAN
A151	ROOF PLAN
AS01	ROOF DETAILS
AS02	ROOF DETAILS
AS03	ROOF DETAILS
AS04	ROOF DETAILS
AS05	ROOF DETAILS
MECHANICAL	
MD101	MECHANICAL DEMOLITION ROOF AND FLOOR PLAN
M101	MECHANICAL RENOVATION ROOF AND FLOOR PLAN
M201	HVAC SCHEDULES
M301	HVAC DETAILS
ELECTRICAL	
E101	ELECTRICAL FLOOR PLAN
E102	ROOF ELECTRICAL PLAN

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**HORRY COUNTY SCHOOLS
CONWAY EDUCATION CENTER
RE-ROOFING**
1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

REVISION SCHEDULE		
#	DESCRIPTION	DATE

KEY PLAN



SGA | NW DESIGN PROJECT NUMBER:
20225312.04

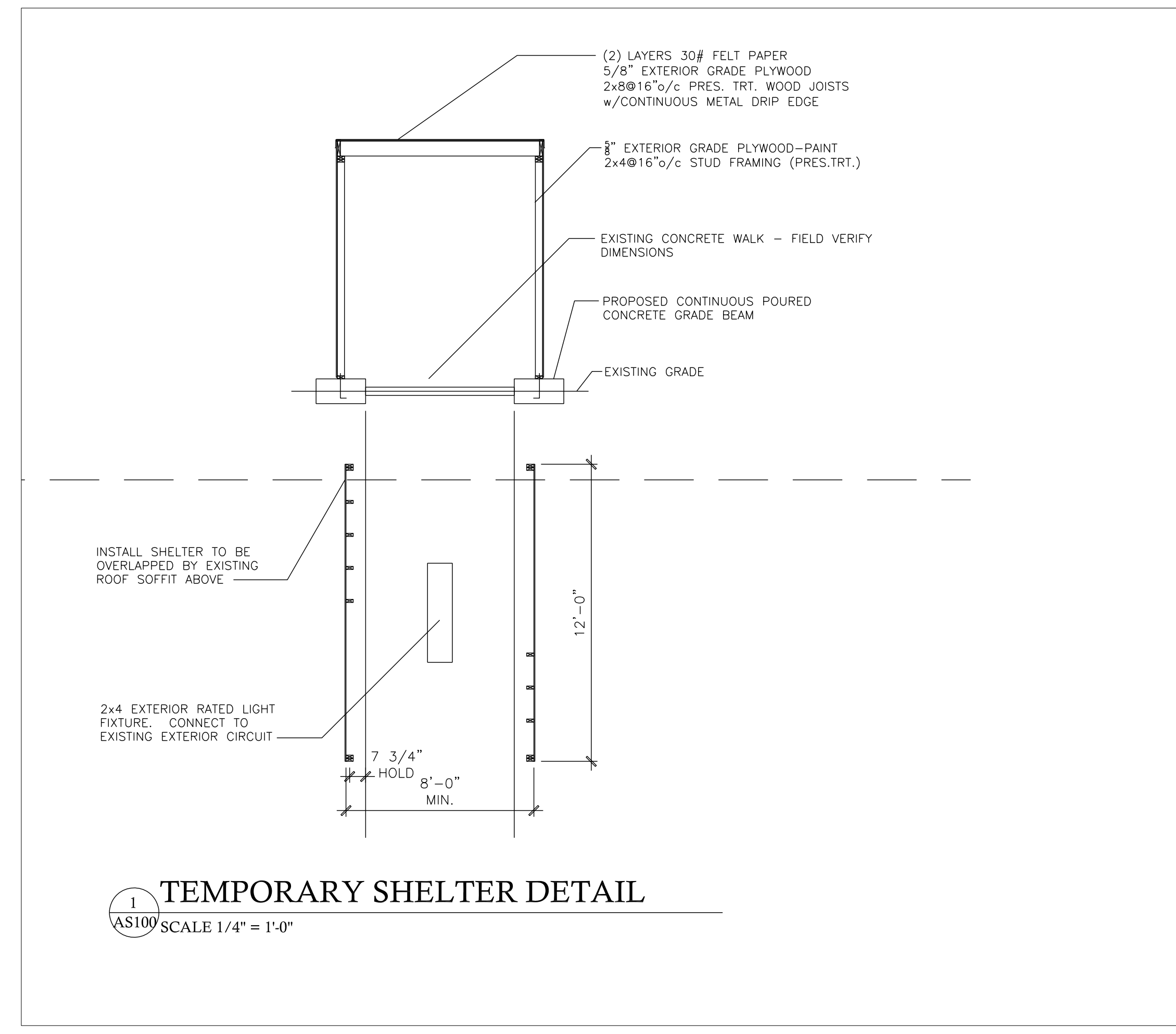
DESIGNED BY: **HK**
DRAWN BY: **MR**
CHECKED BY: **LH**

ISSUE DATE:
01/17/23

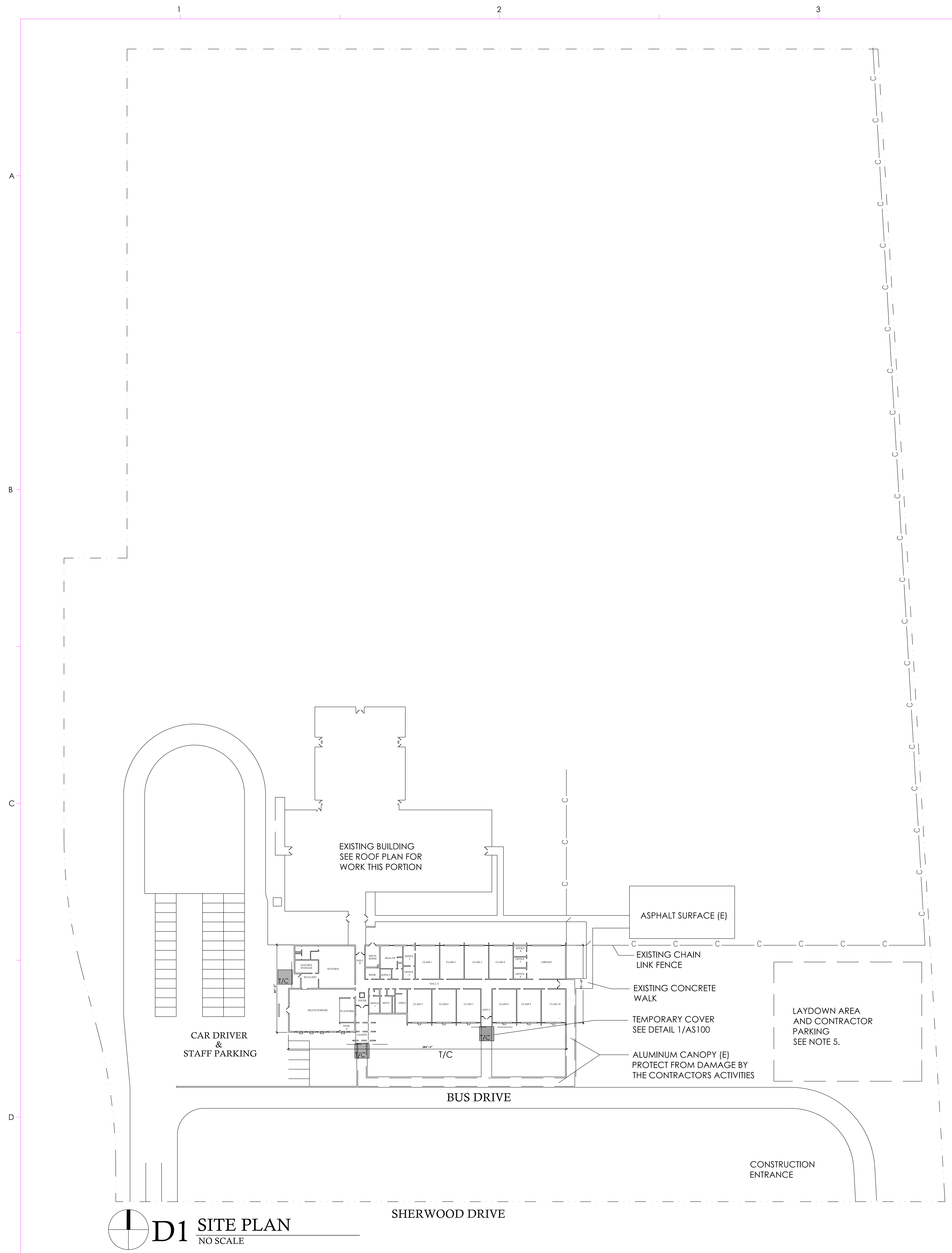
SITE Plan

AS100

SCALE: BID SET

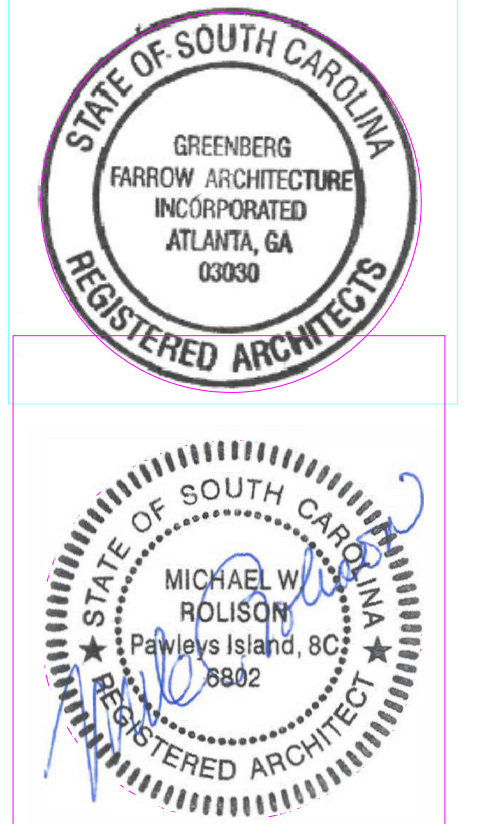


- SITE NOTES**
- 1) CONTRACTORS SHALL IN NO WAY AFFECT OR IMPEDE THE OWNERS CURRENT OPERATIONS AND ACTIVITIES INCLUDING TRAFFIC.
 - 2) CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 - 3) CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COOPERATION WITH THE DISTRICT/SCHOOL FOR HOURS OF OPERATION AND ACTIVITIES FOR BUILDING USE.
 - 4) CONTRACTOR TO FURNISH, INSTALL AND MAINTAIN SAFETY PROCEDURES AND BARRICADES.
 - 5) LAYDOWN / PARKING AREA TO BE FINAL DETERMINED WITH DISTRICT AND STAFF. CONTRACTOR SHALL REPAIR/REPLACE ANY IMPROVEMENTS (LAWNS, PLANTINGS, DRIVES, WALKS, DRAINAGE, BUILDING COMPONENTS, UTILITIES, ETC.) DAMAGED BY THE CONTRACTOR DUE TO HIS CONSTRUCTION ACTIVITIES.



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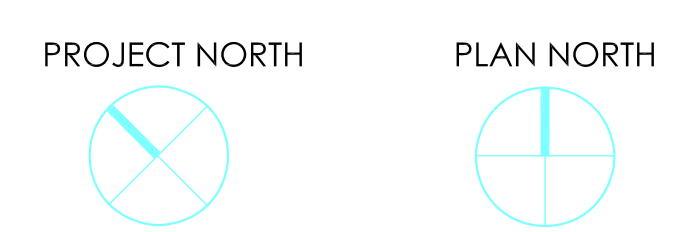
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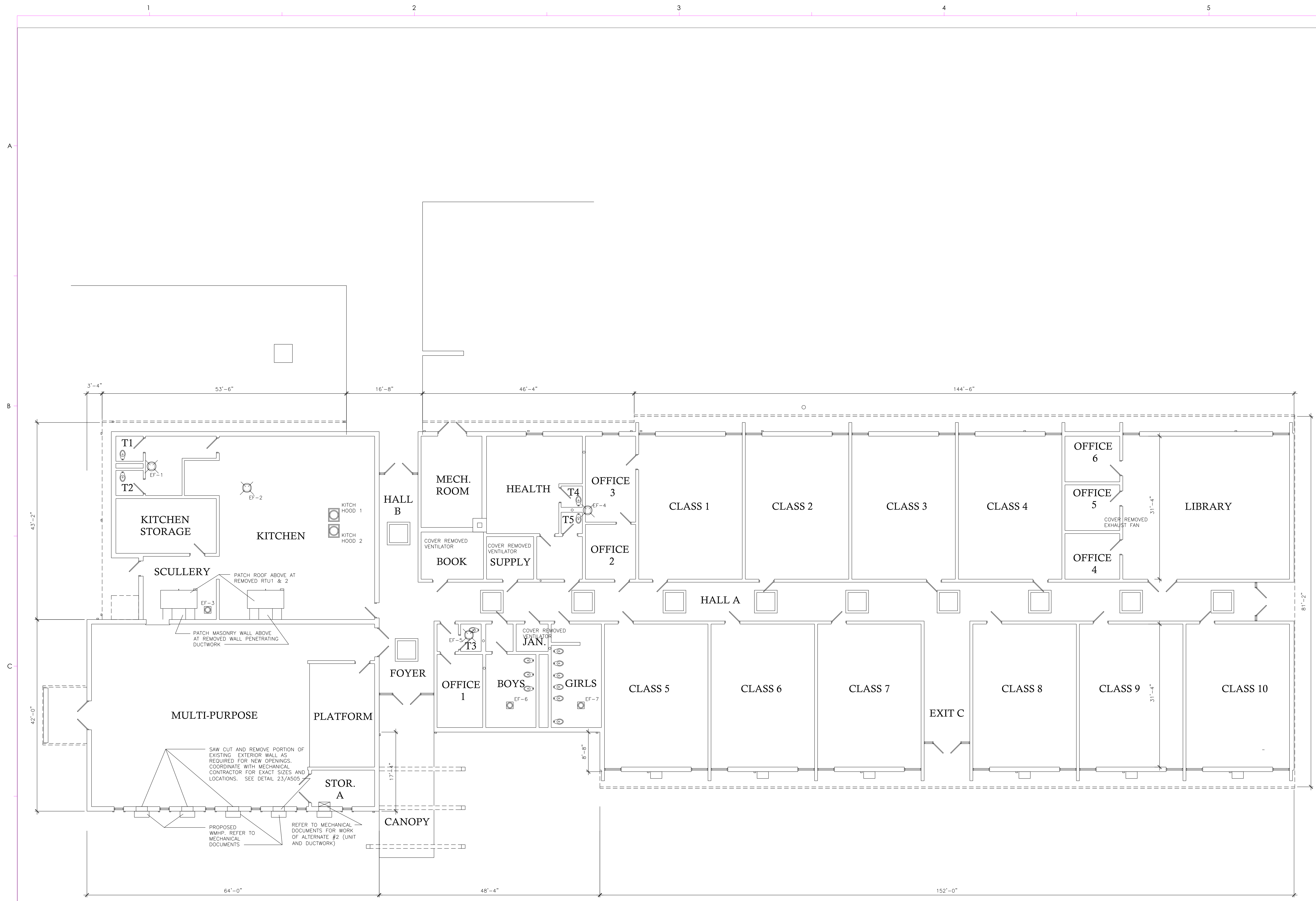
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01/17/23

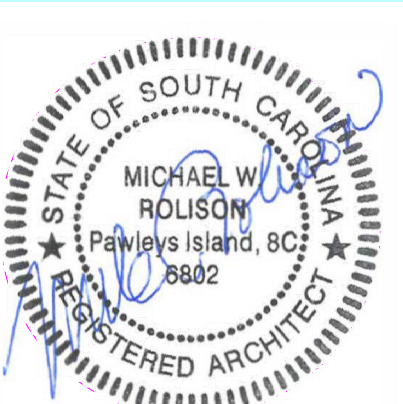
Floor Plan

A100

SCALE: BID SET



D1 FLOOR PLAN
1/8"=1'-0"

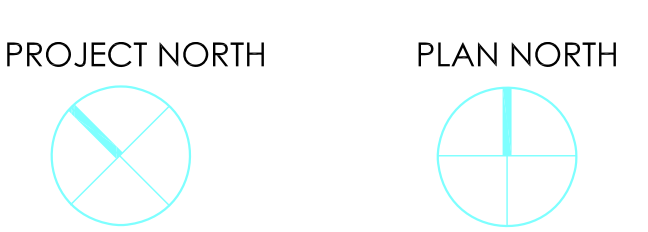


**HORRY COUNTY SCHOOLS
CONWAY EDUCATION CENTER
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1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

REVISION SCHEDULE

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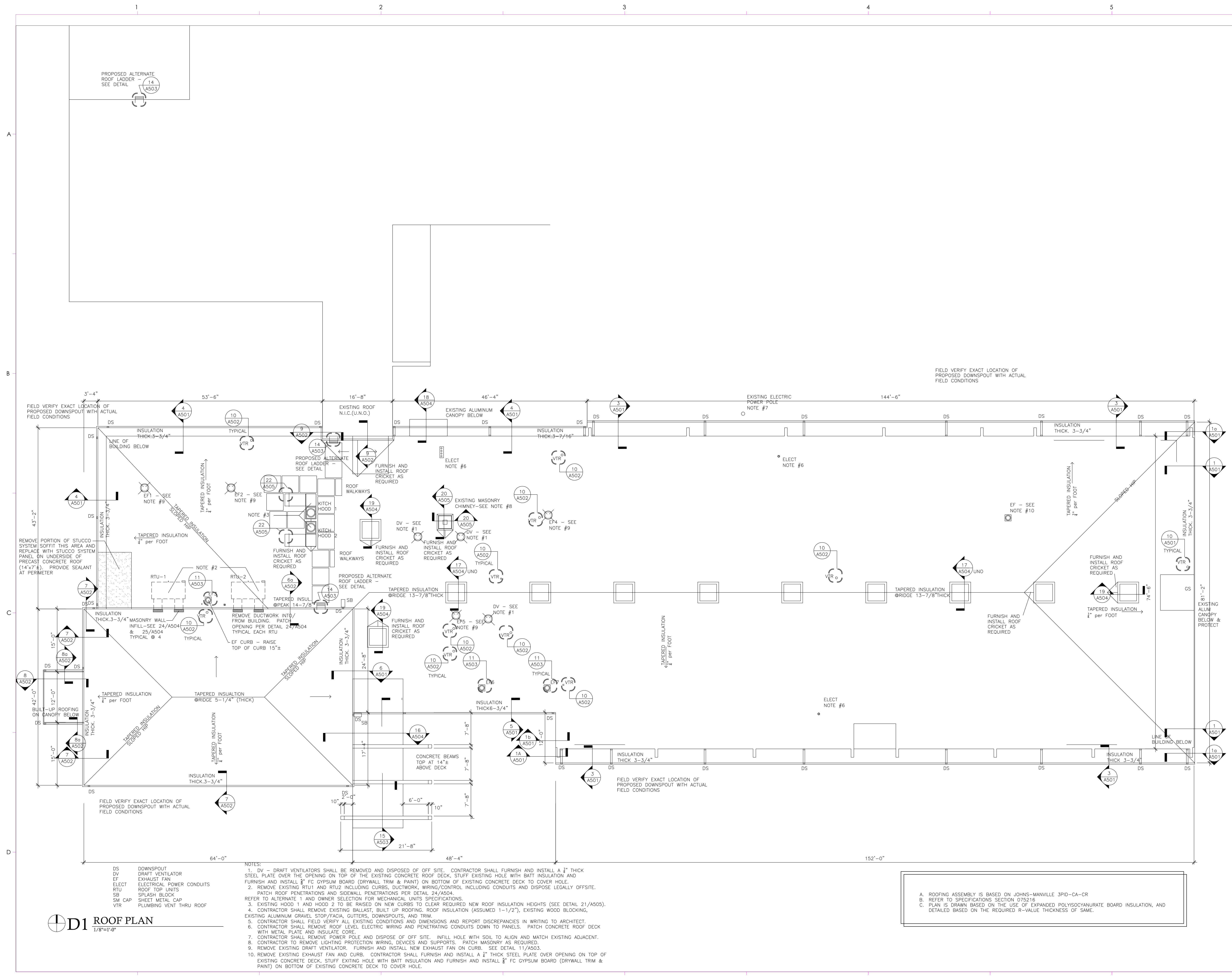
DESIGNED BY: HK
DRAWN BY: MR
CHECKED BY: LH

ISSUE DATE:
01/17/23

Roof Plan

A151

SCALE: BID SET

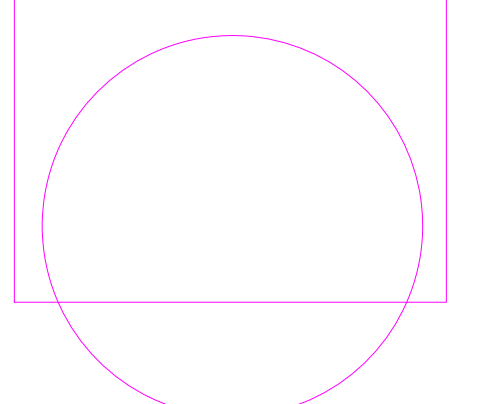


A. ROOFING ASSEMBLY IS BASED ON JOHNS-MANVILLE 3PD-CA-CR
B. REFER TO SPECIFICATIONS SECTION 075216
C. PLAN IS DRAWN BASED ON THE USE OF EXPANDED POLYISOCYANURATE BOARD INSULATION, AND DETAILED BASED ON THE REQUIRED R-VALUE THICKNESS OF SAME.

D1 ROOF PLAN
1/8"=1'-0"

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CONWAY, SOUTH CAROLINA

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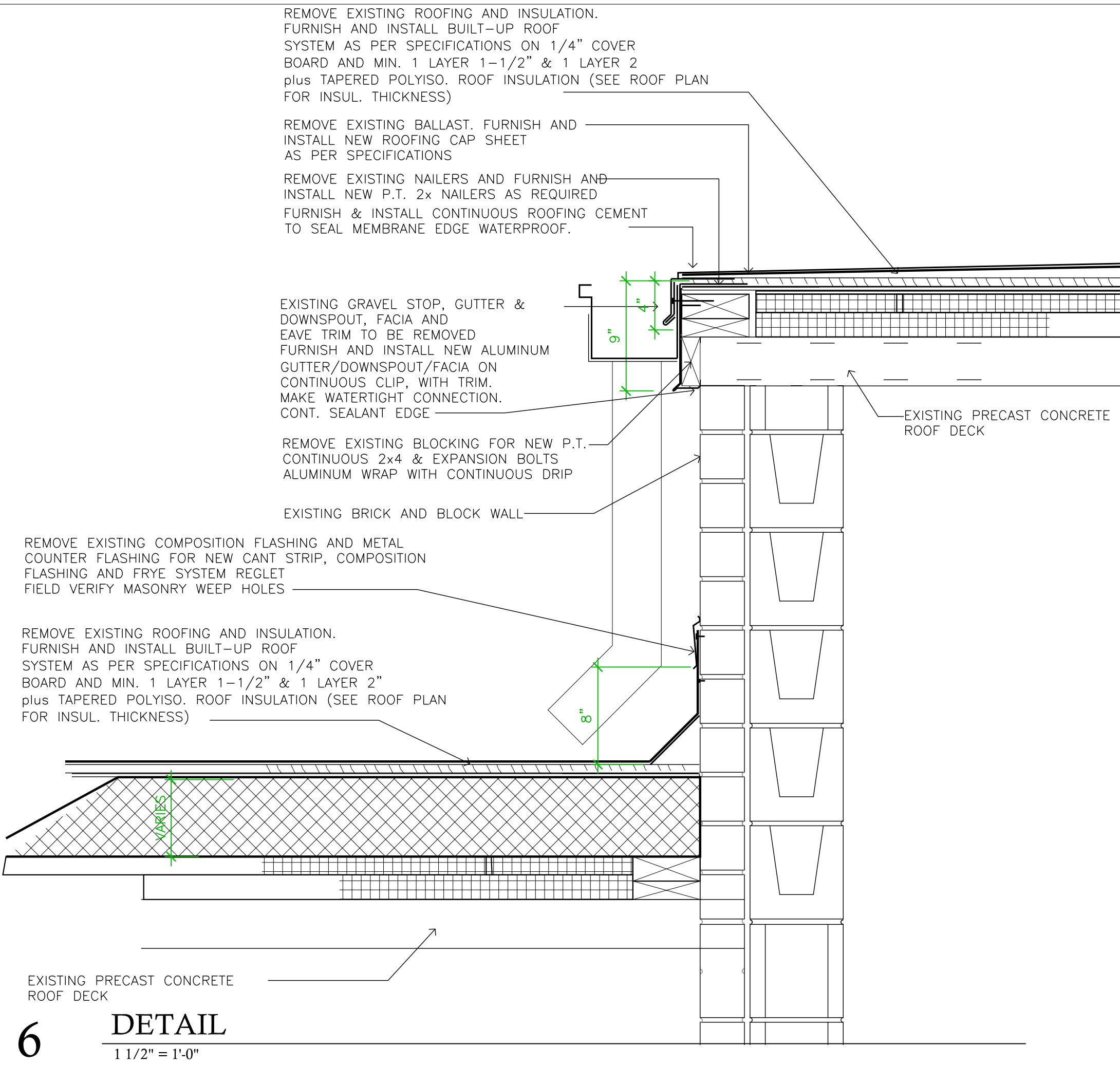
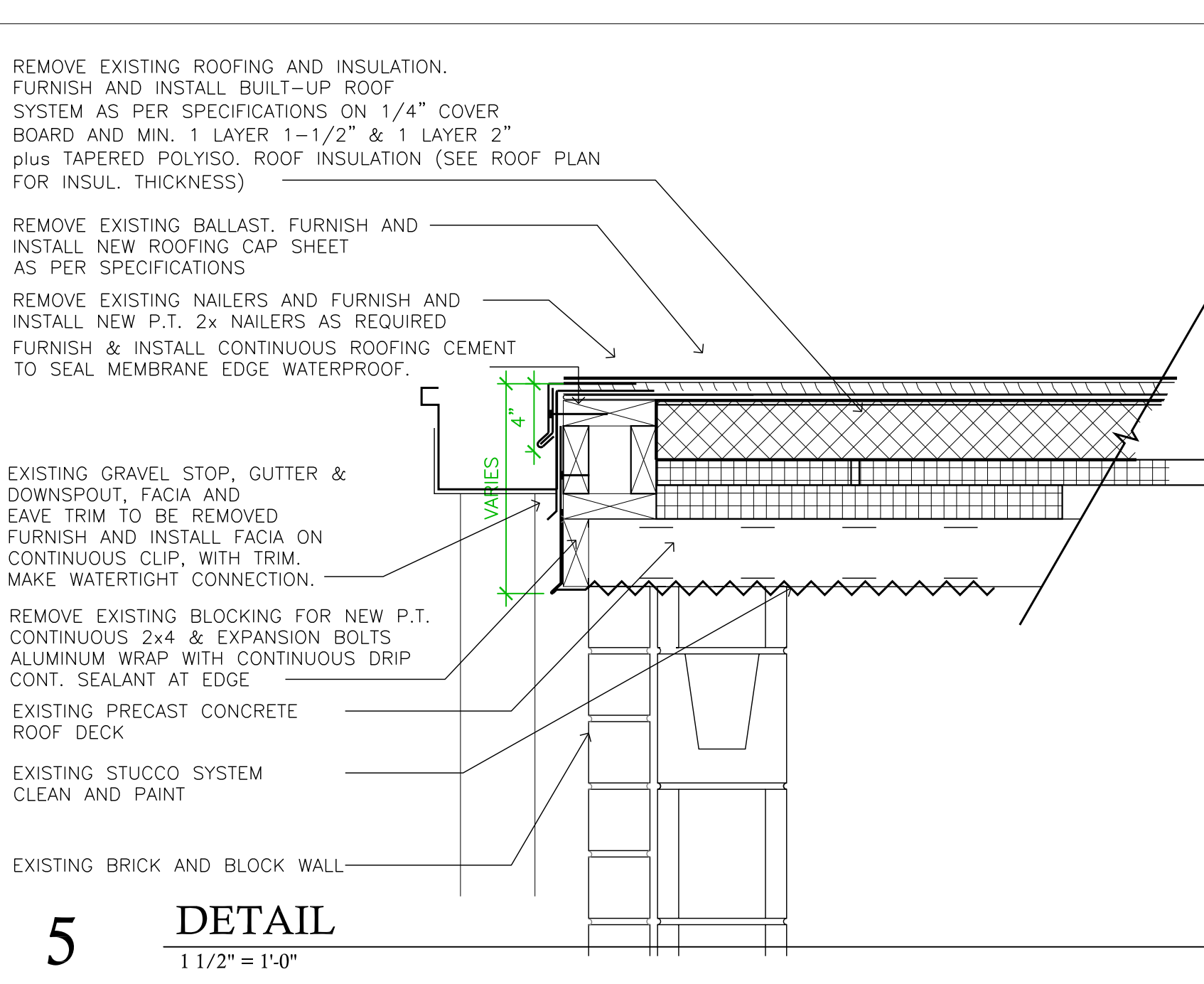
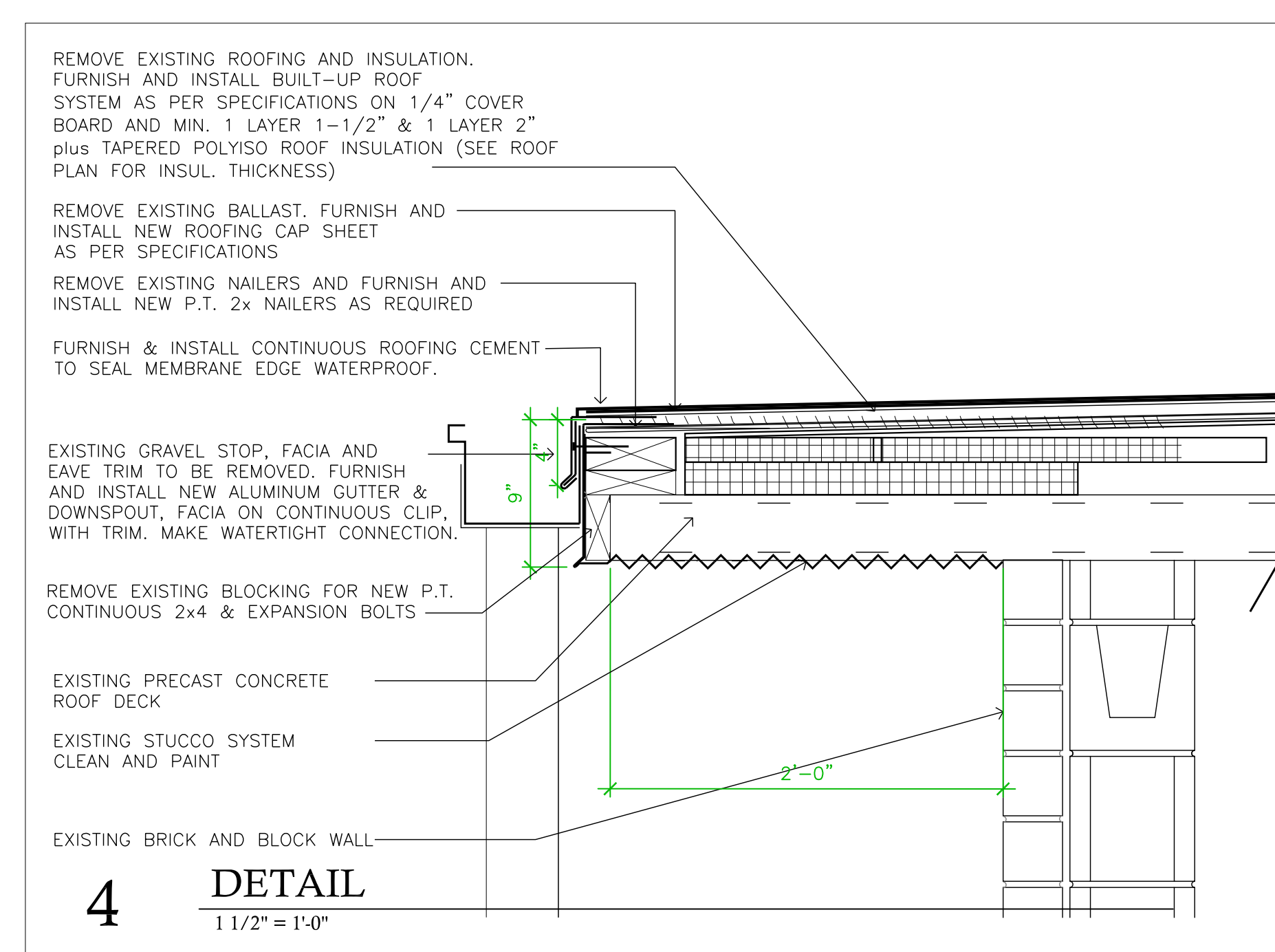
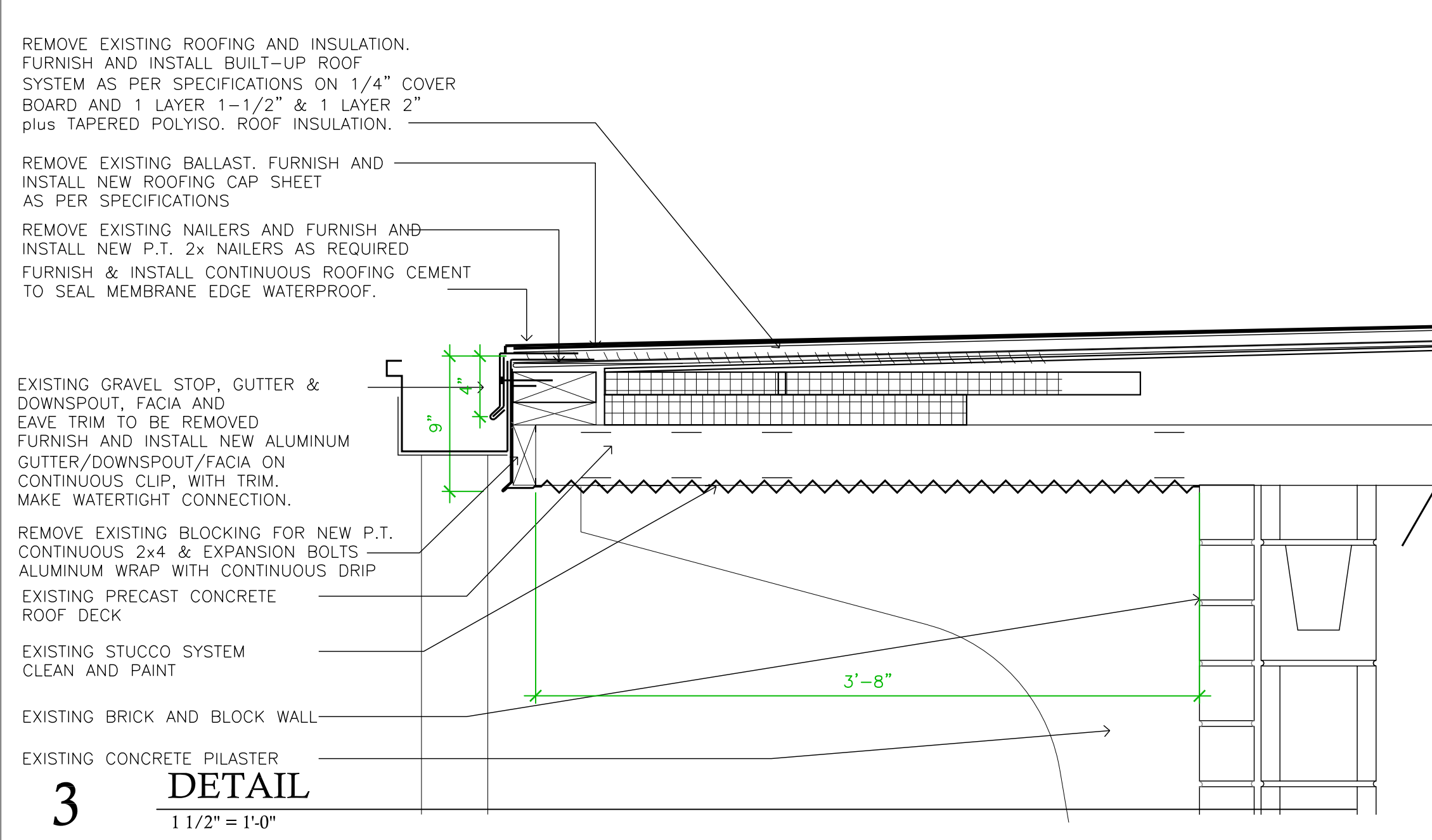
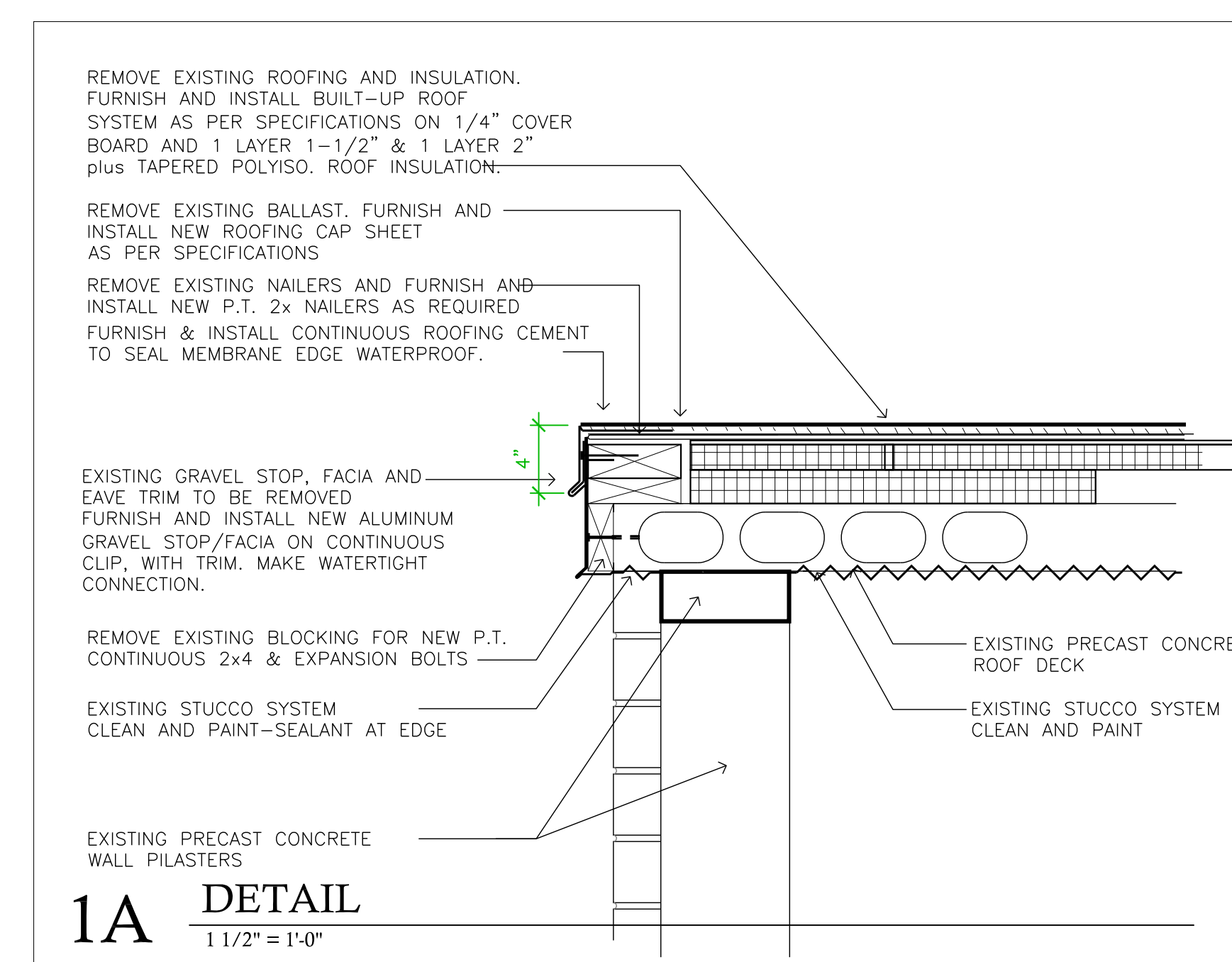
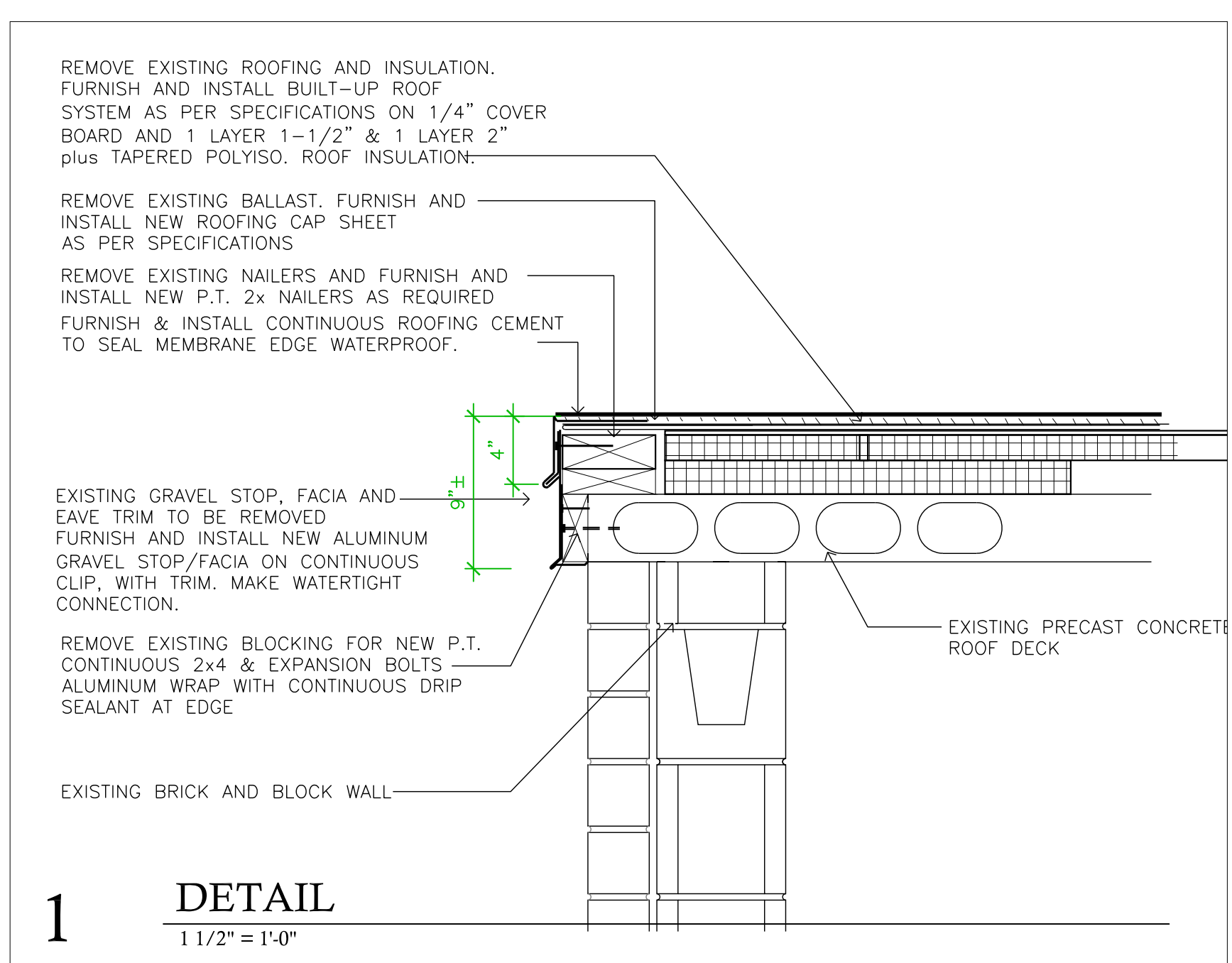
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DRAWN BY: MK
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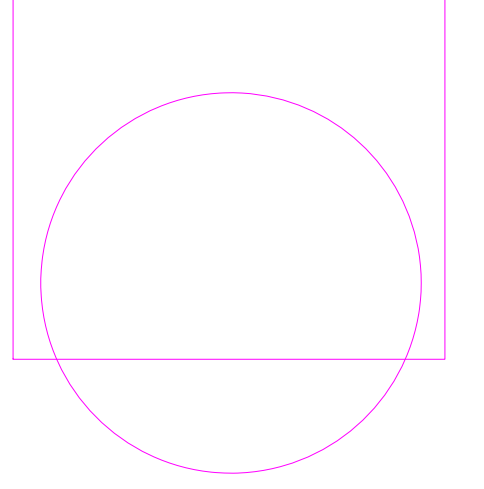
ISSUE DATE:
01/17/23

Roof Details

A501

SCALE: BID SET

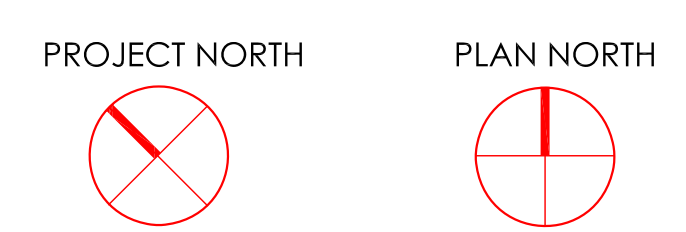




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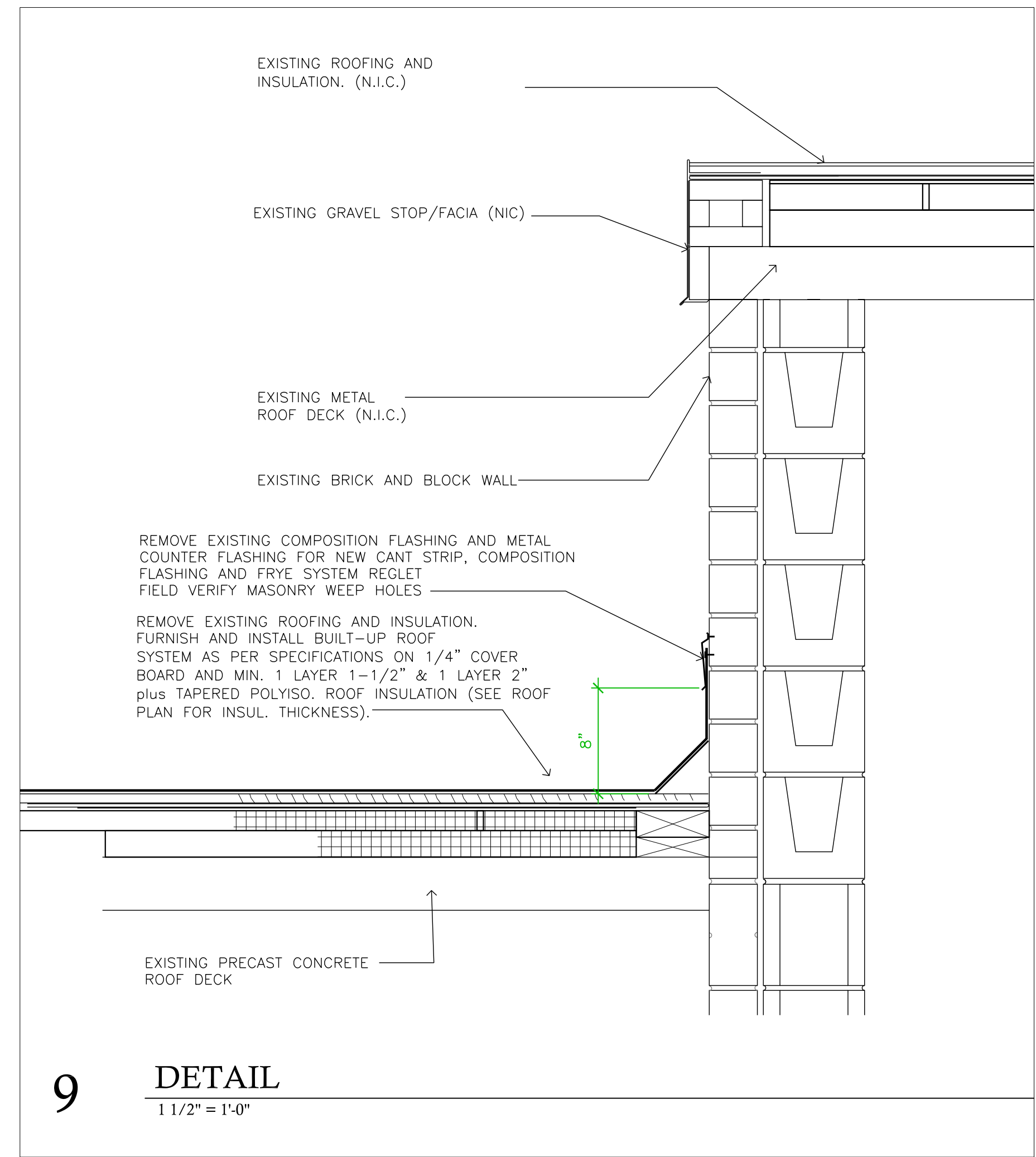
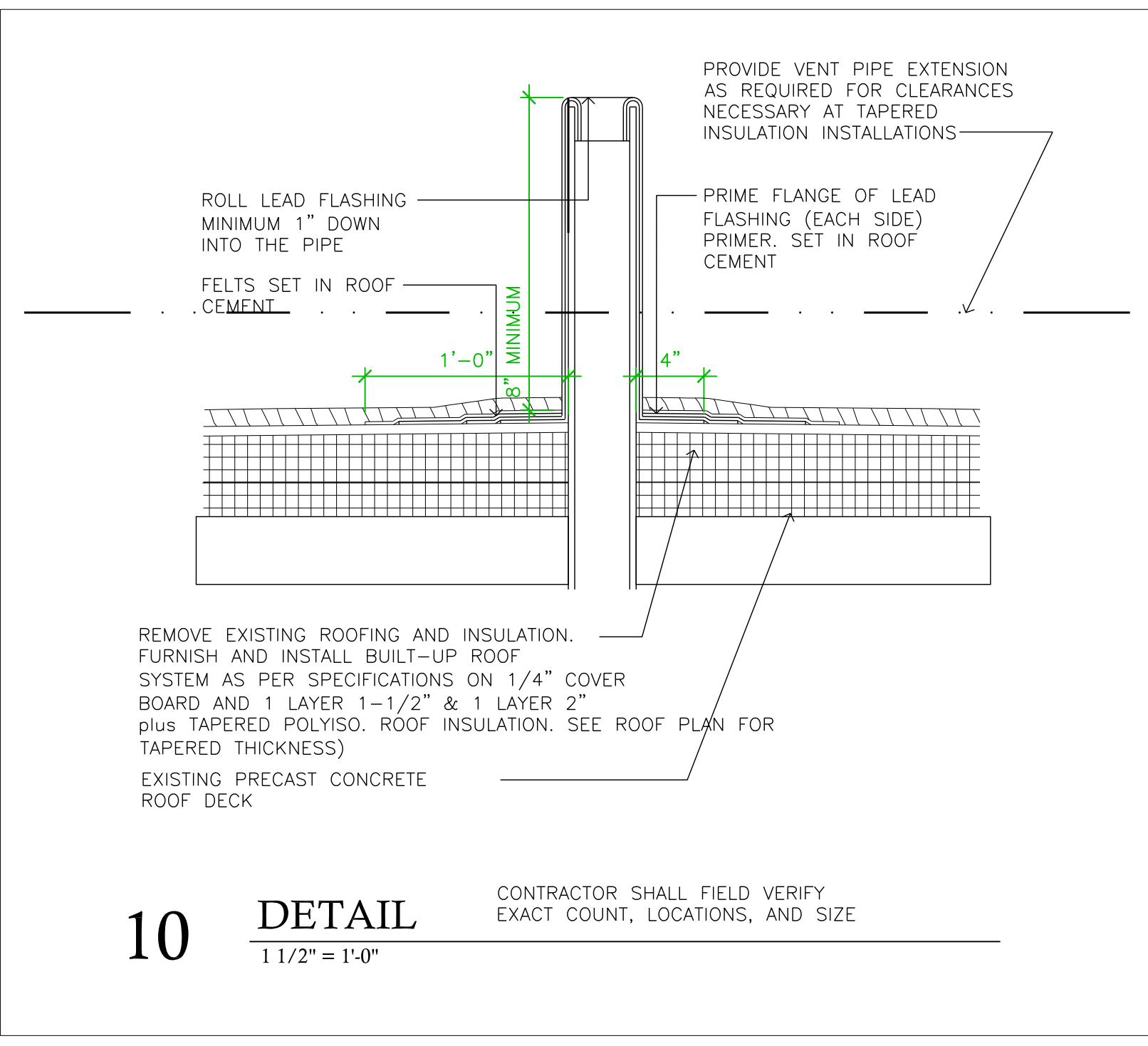
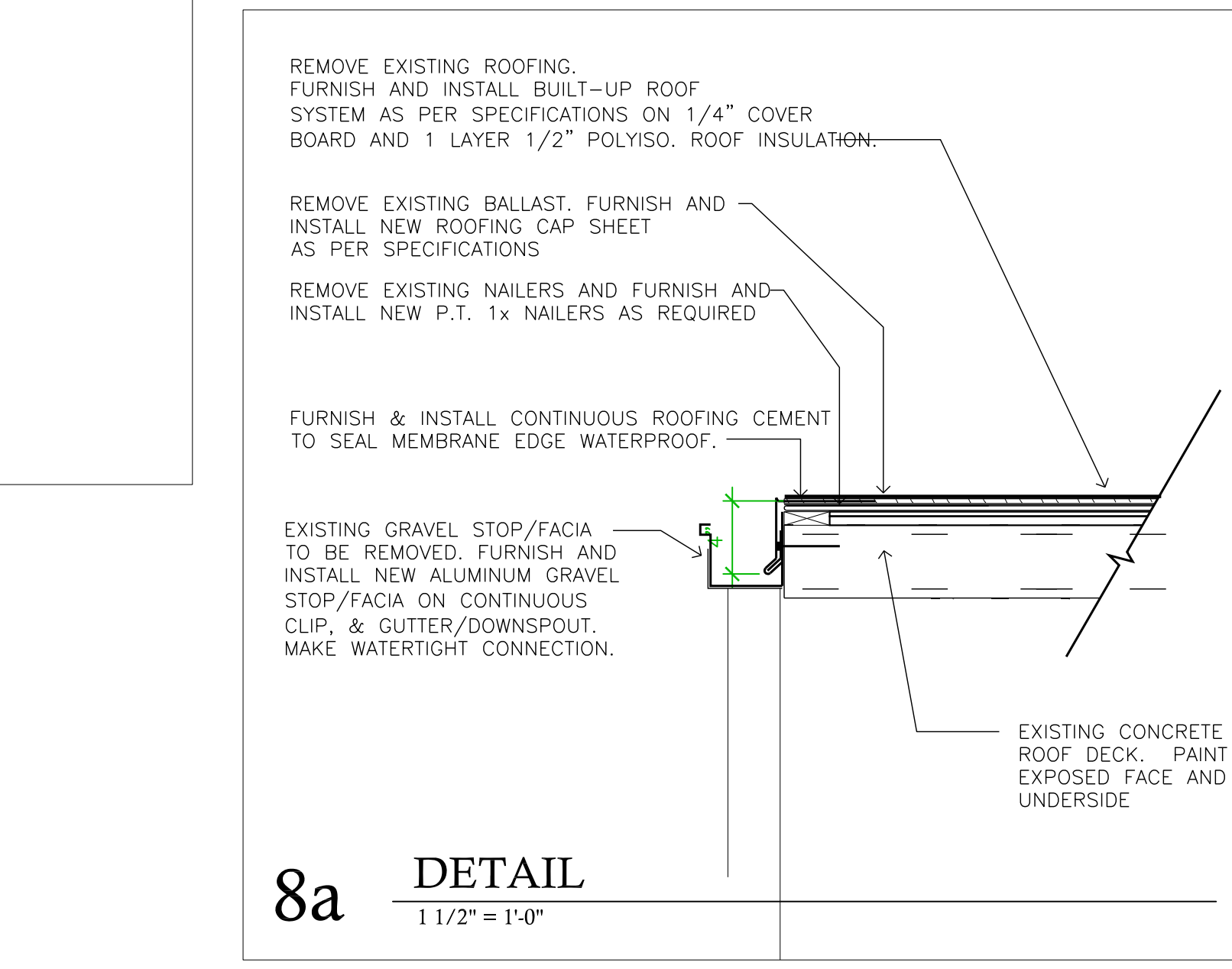
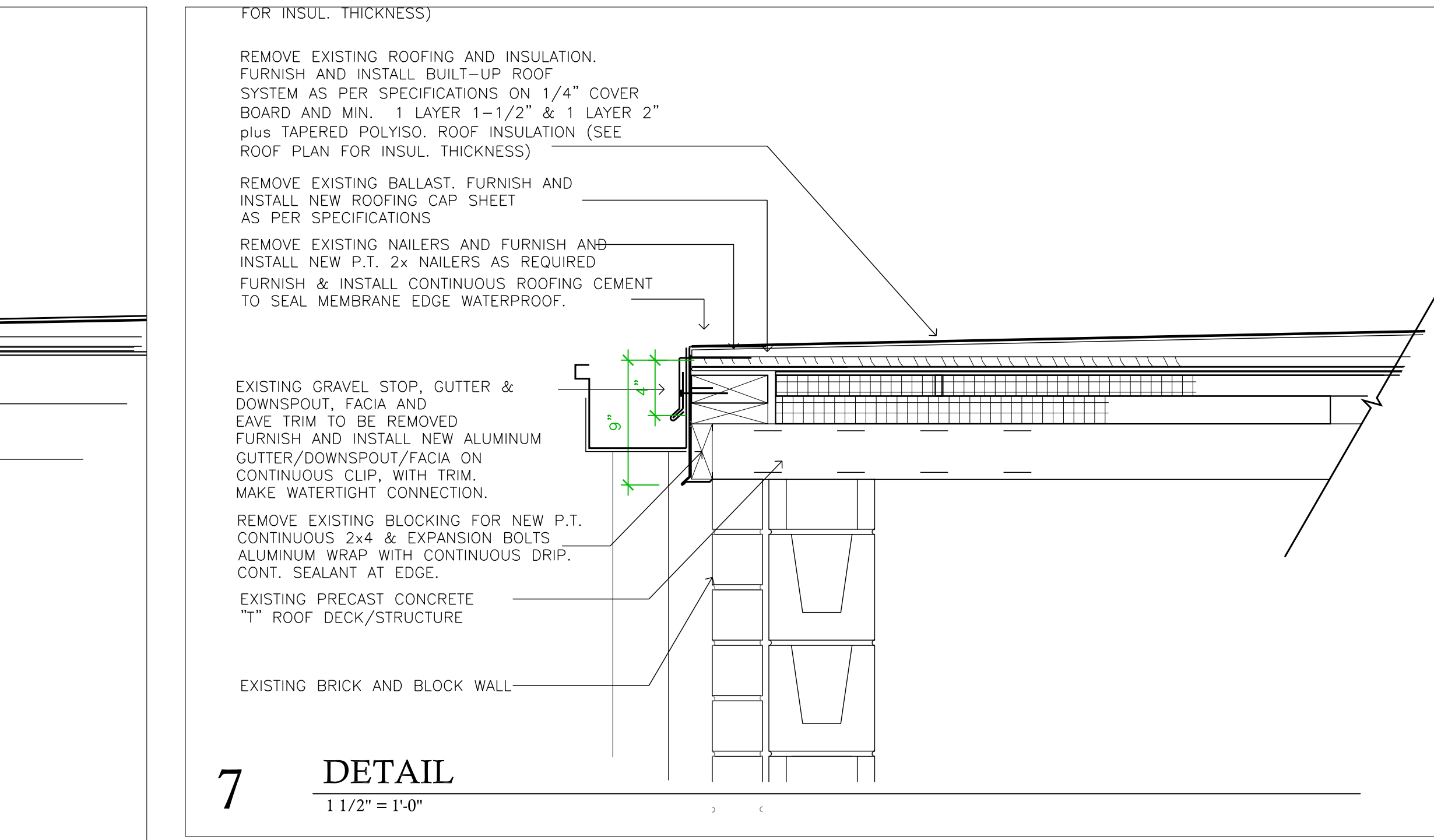
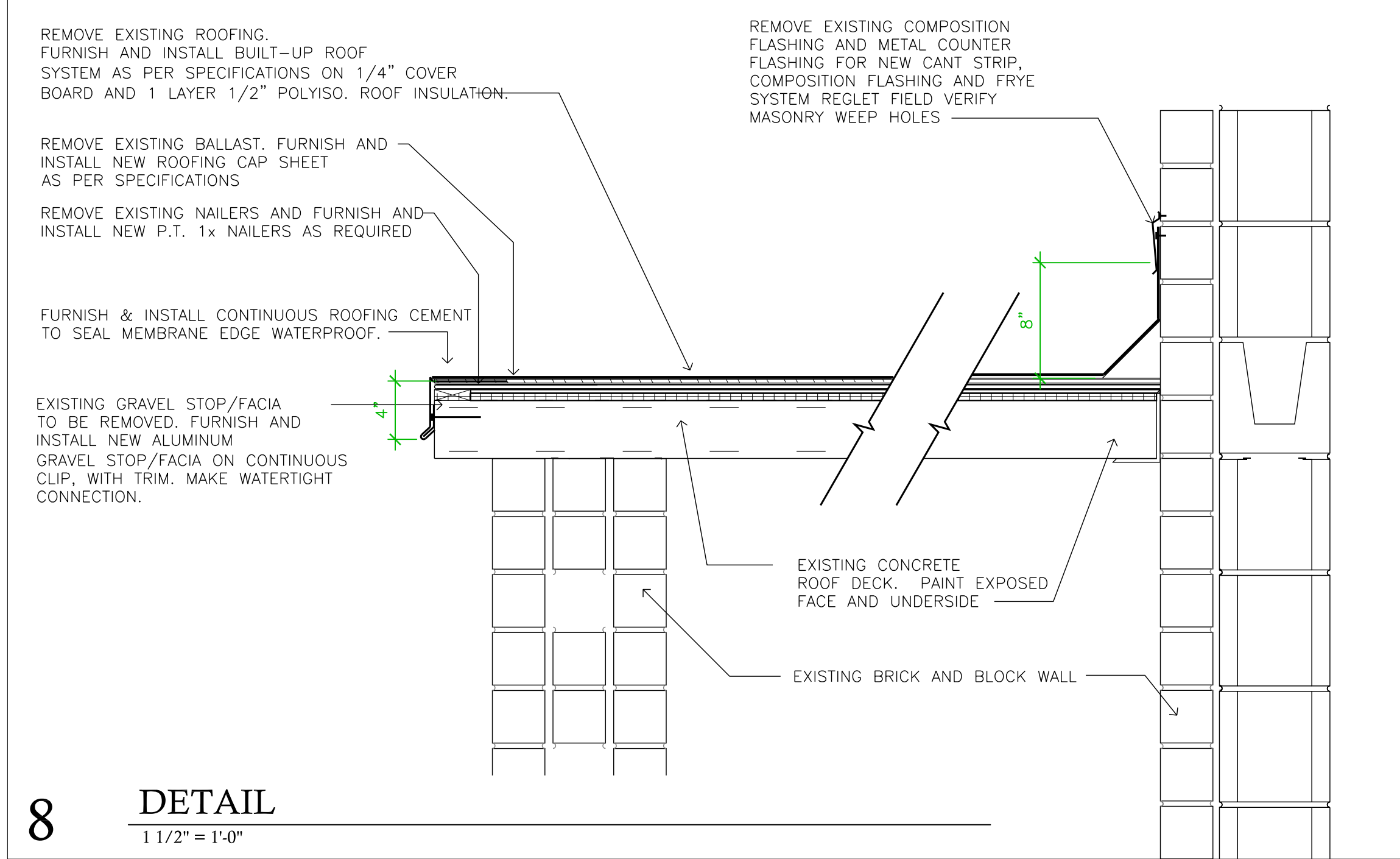
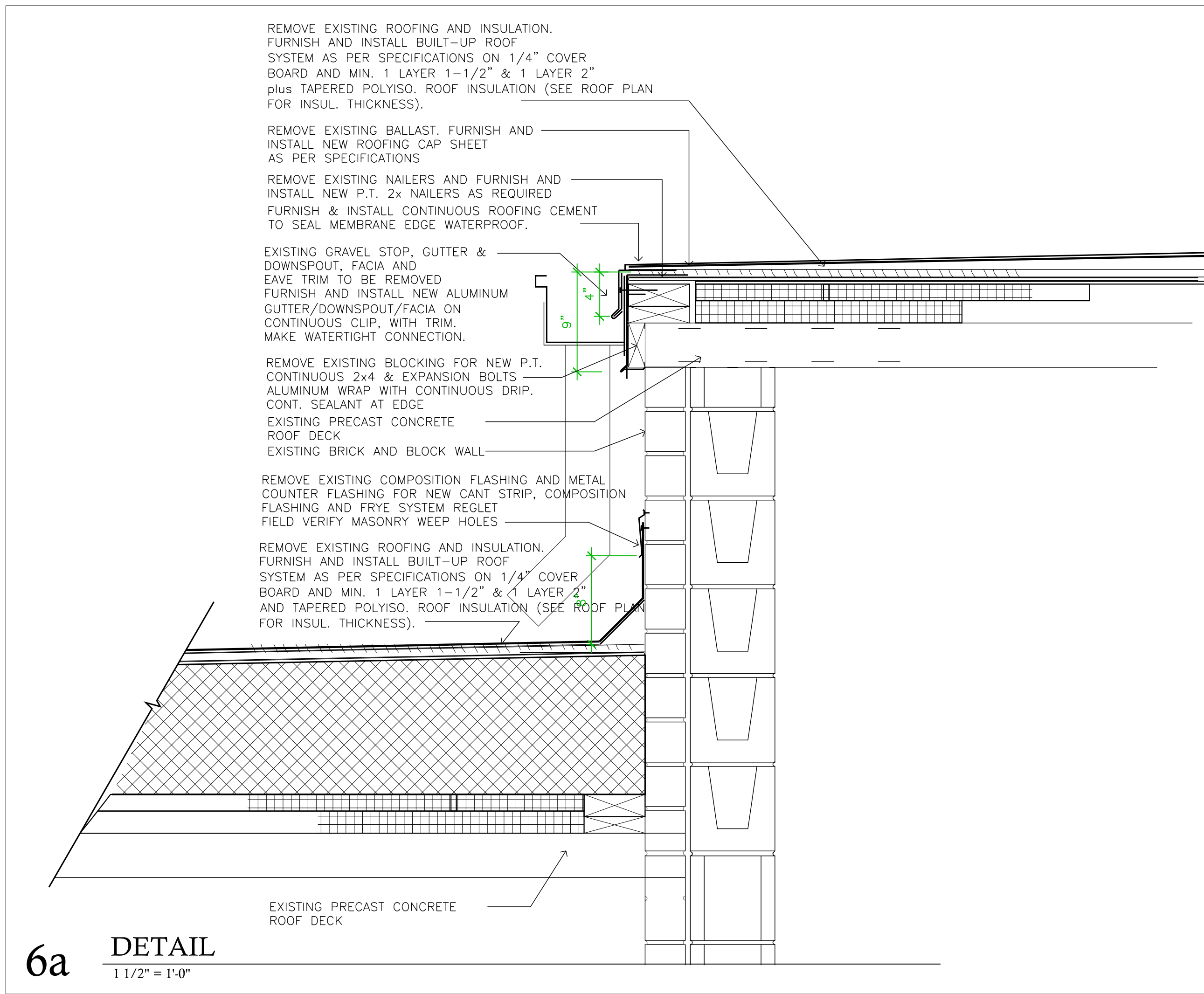
DESIGNED BY: HK
DRAWN BY: MR
CHECKED BY: LH

ISSUE DATE:
01/17/23

Roof Details

A502

SCALE: BID SET



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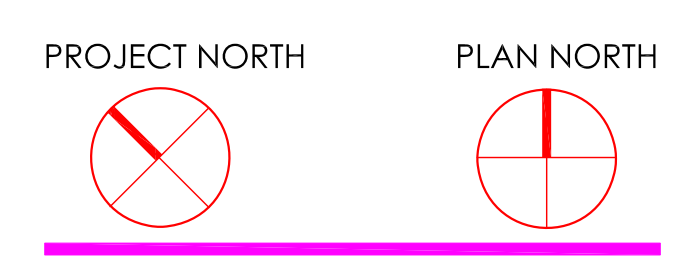
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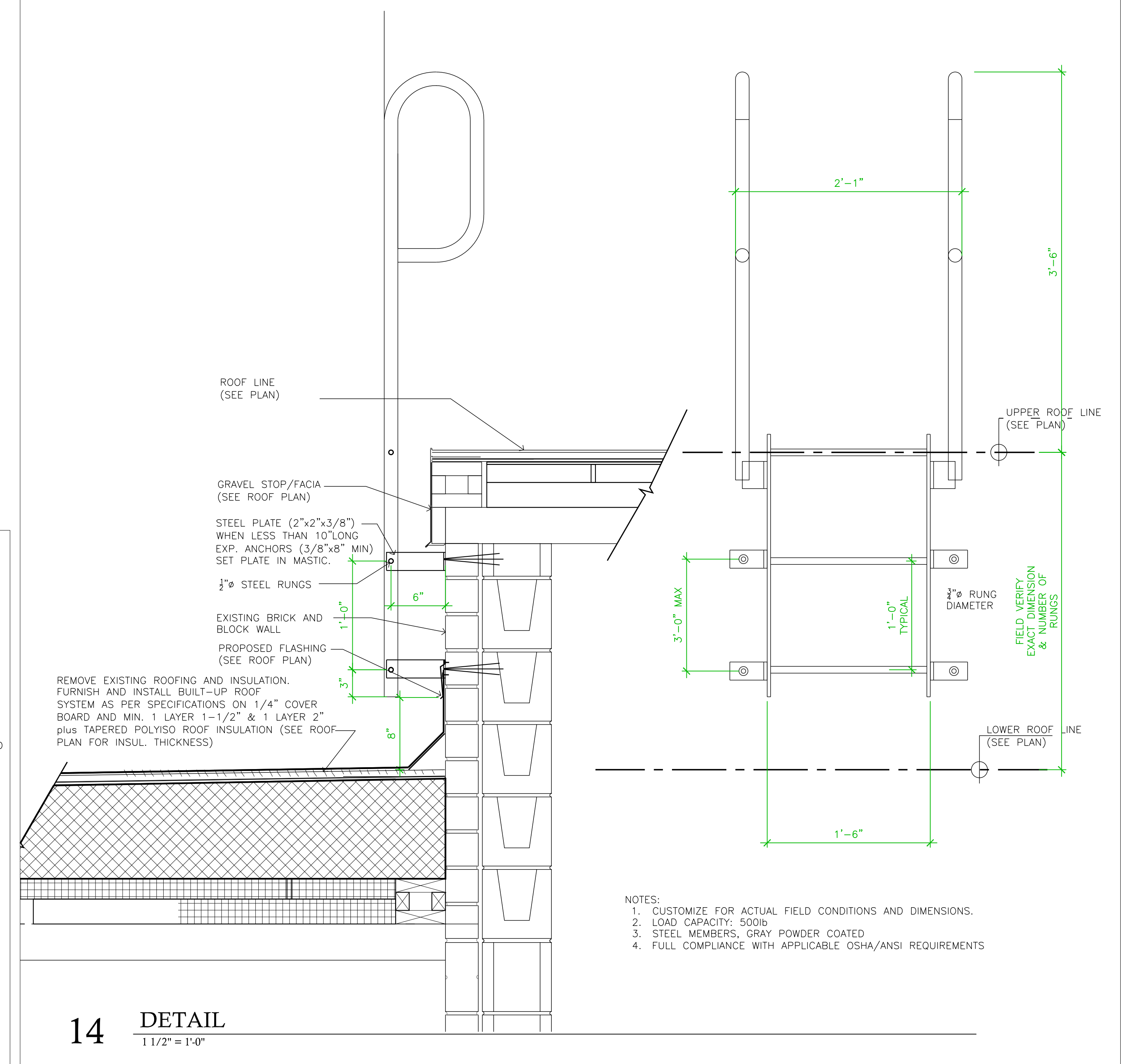
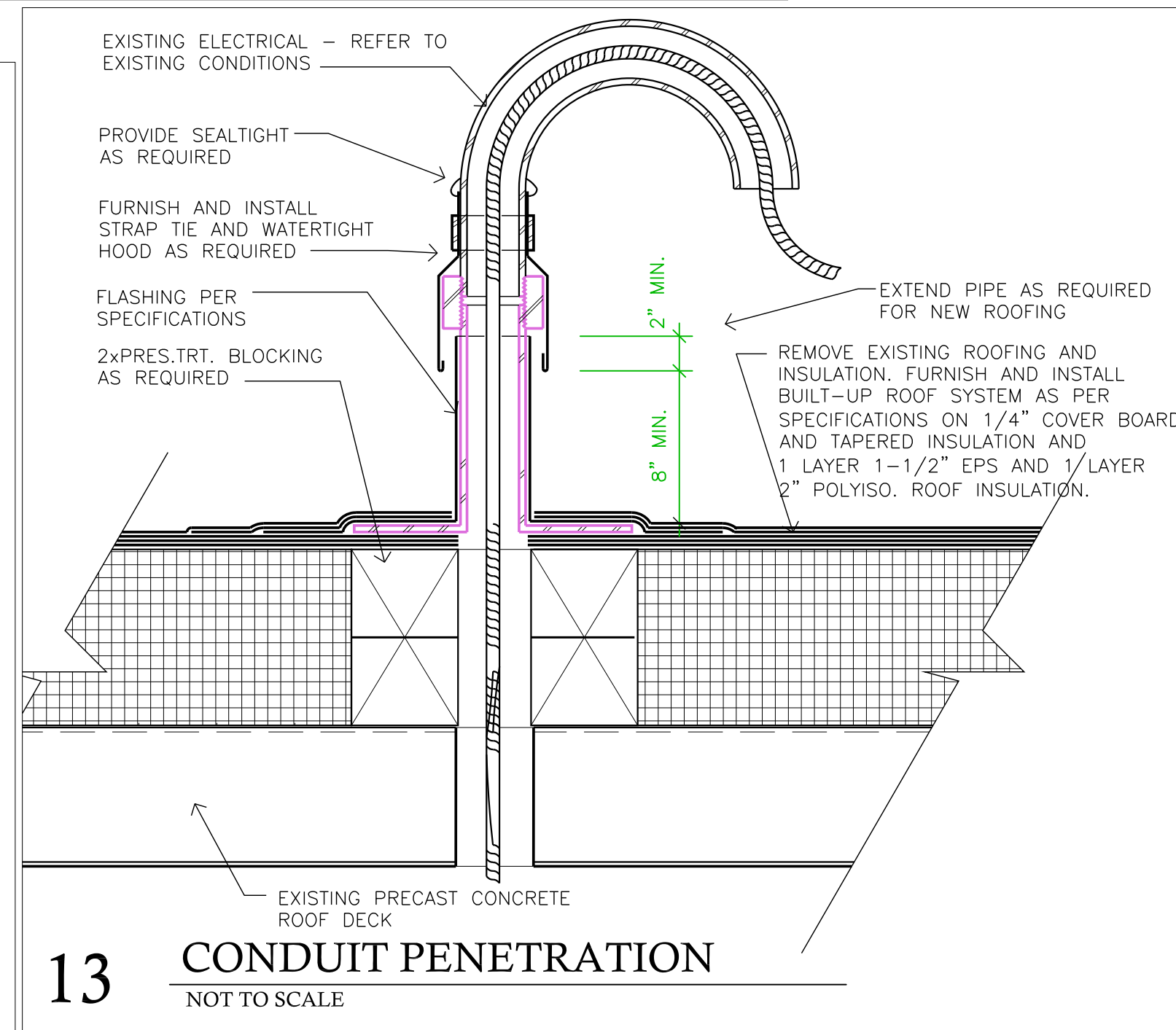
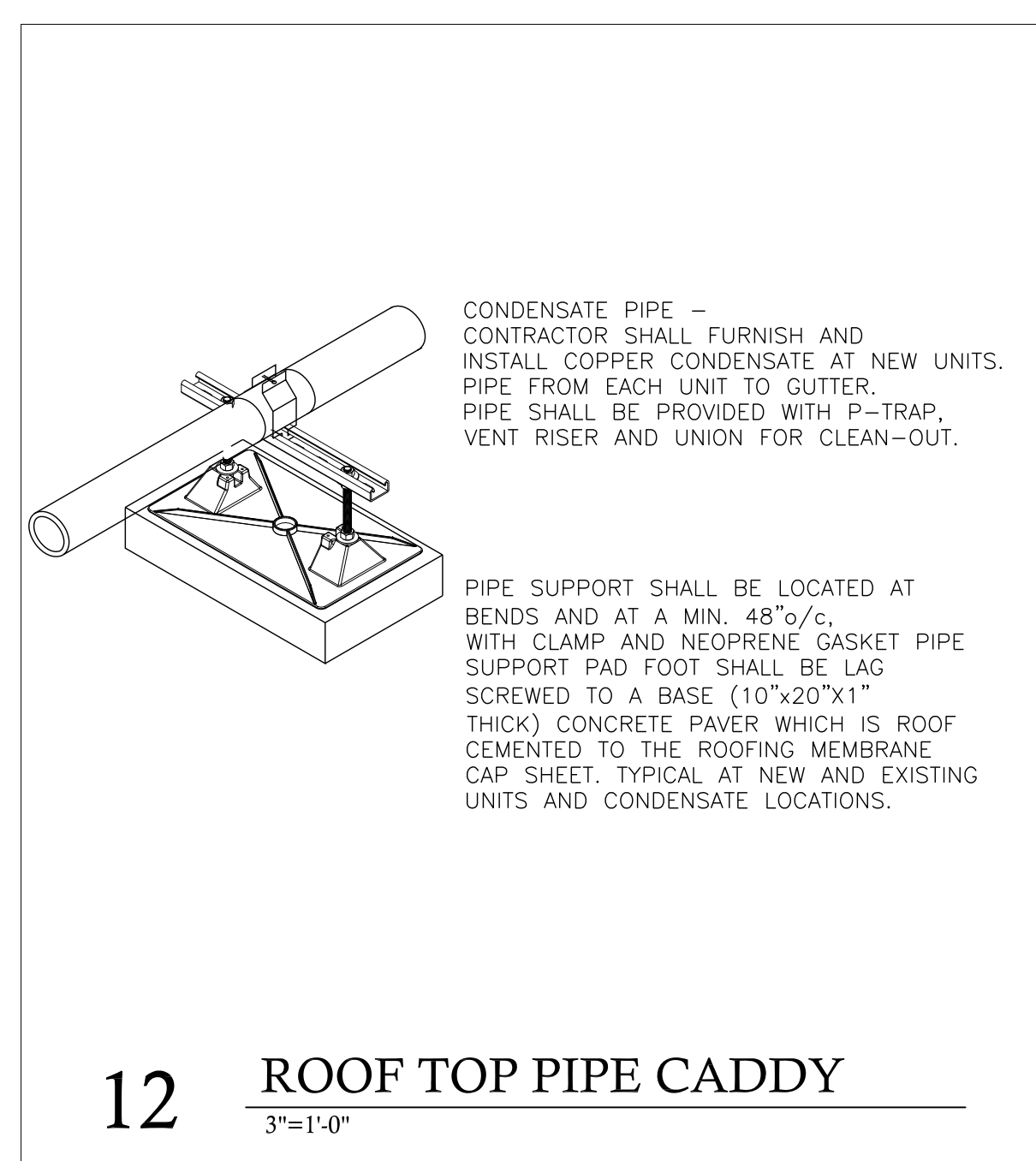
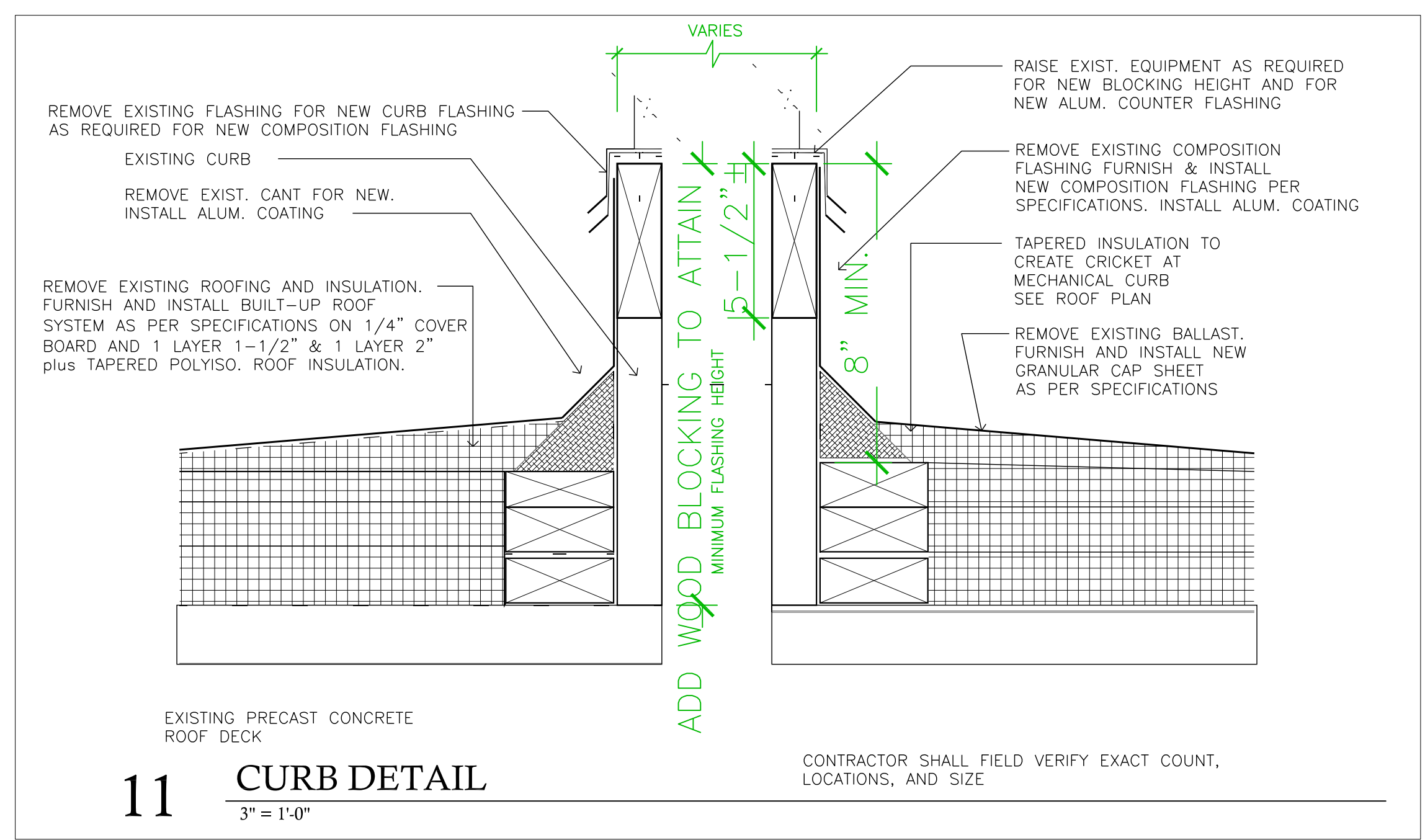
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01/17/23

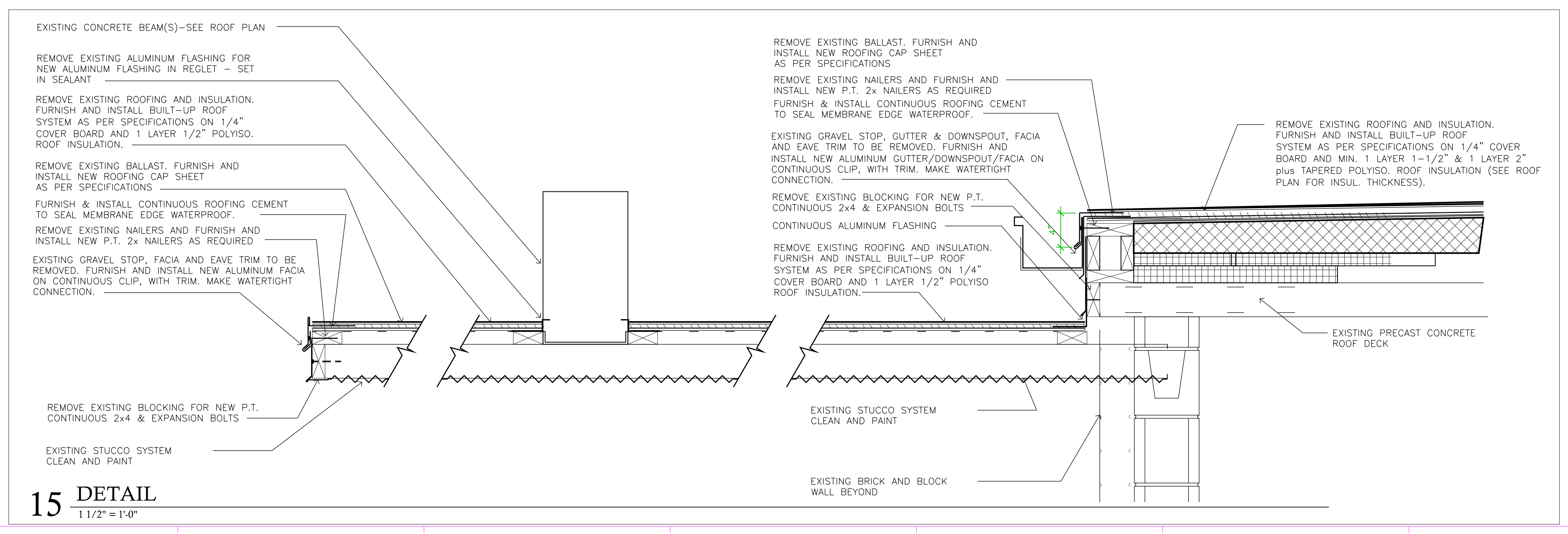
ROOF DETAILS

A503

SCALE: BID SET



- NOTES:
1. CUSTOMIZE FOR ACTUAL FIELD CONDITIONS AND DIMENSIONS.
 2. LOAD CAPACITY: 500lb
 3. STEEL MEMBERS: GRAY, POWDER COATED
 4. FULL COMPLIANCE WITH APPLICABLE OSHA/ANSI REQUIREMENTS





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CONWAY EDUCATION CENTER
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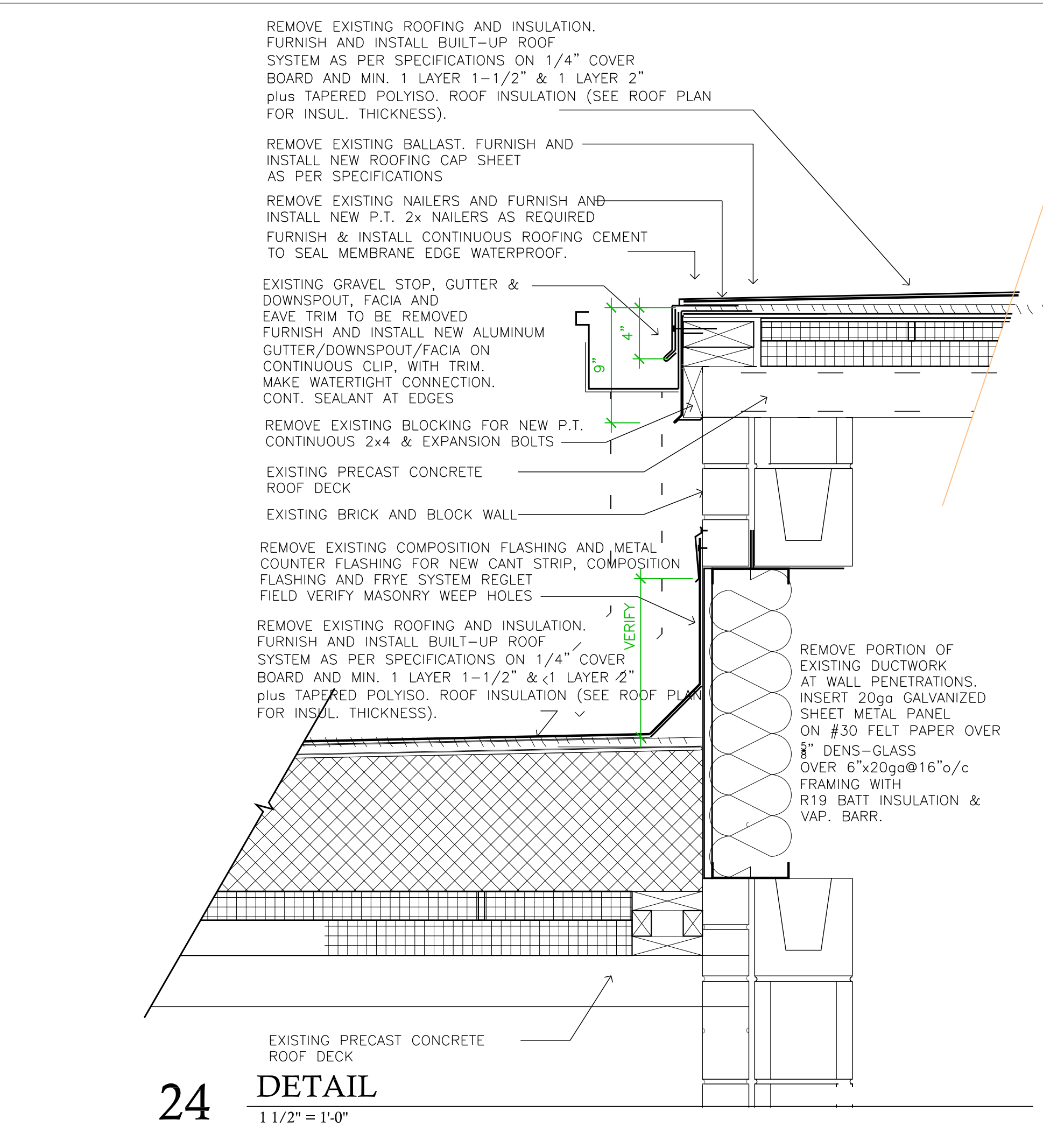
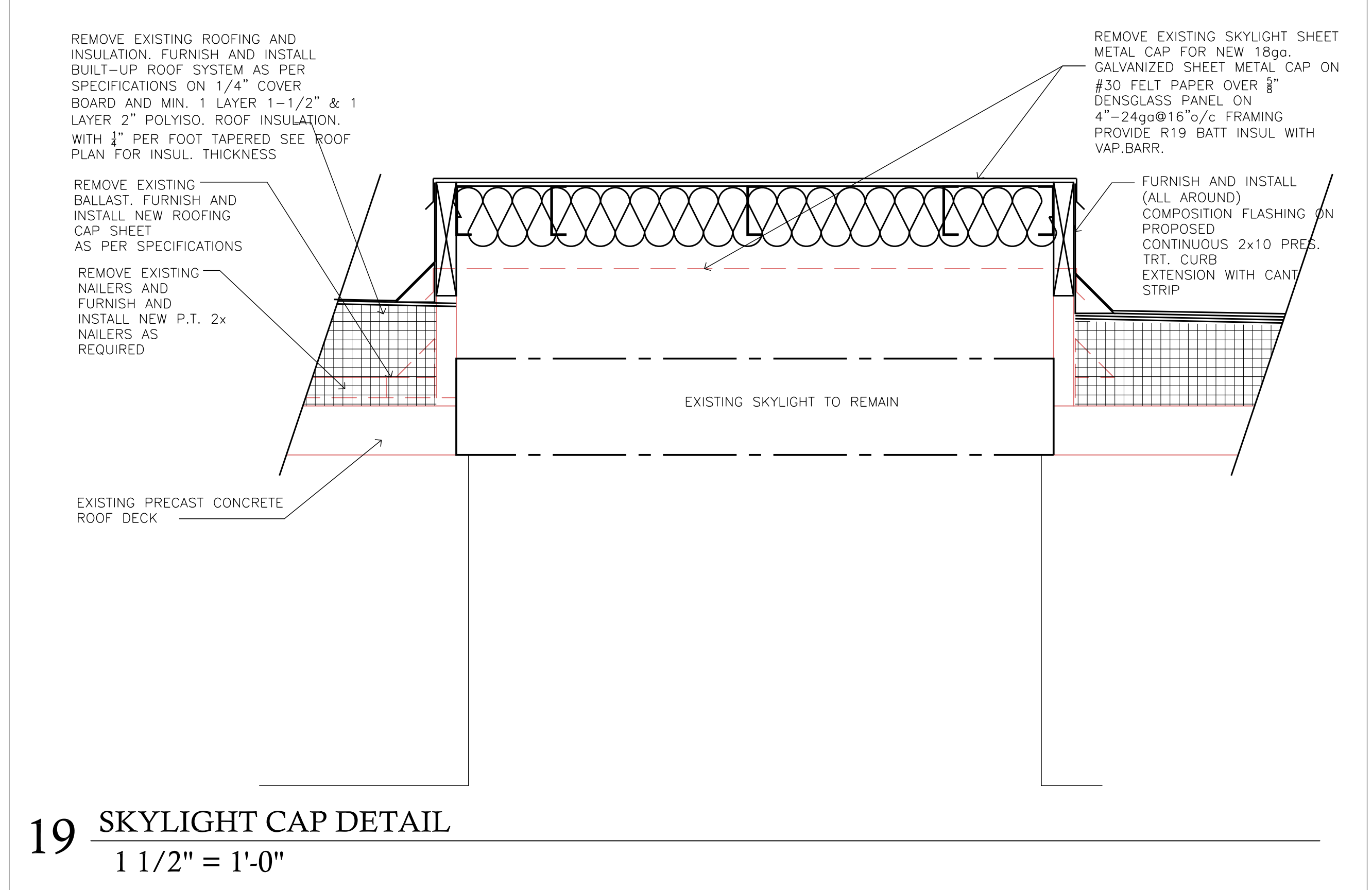
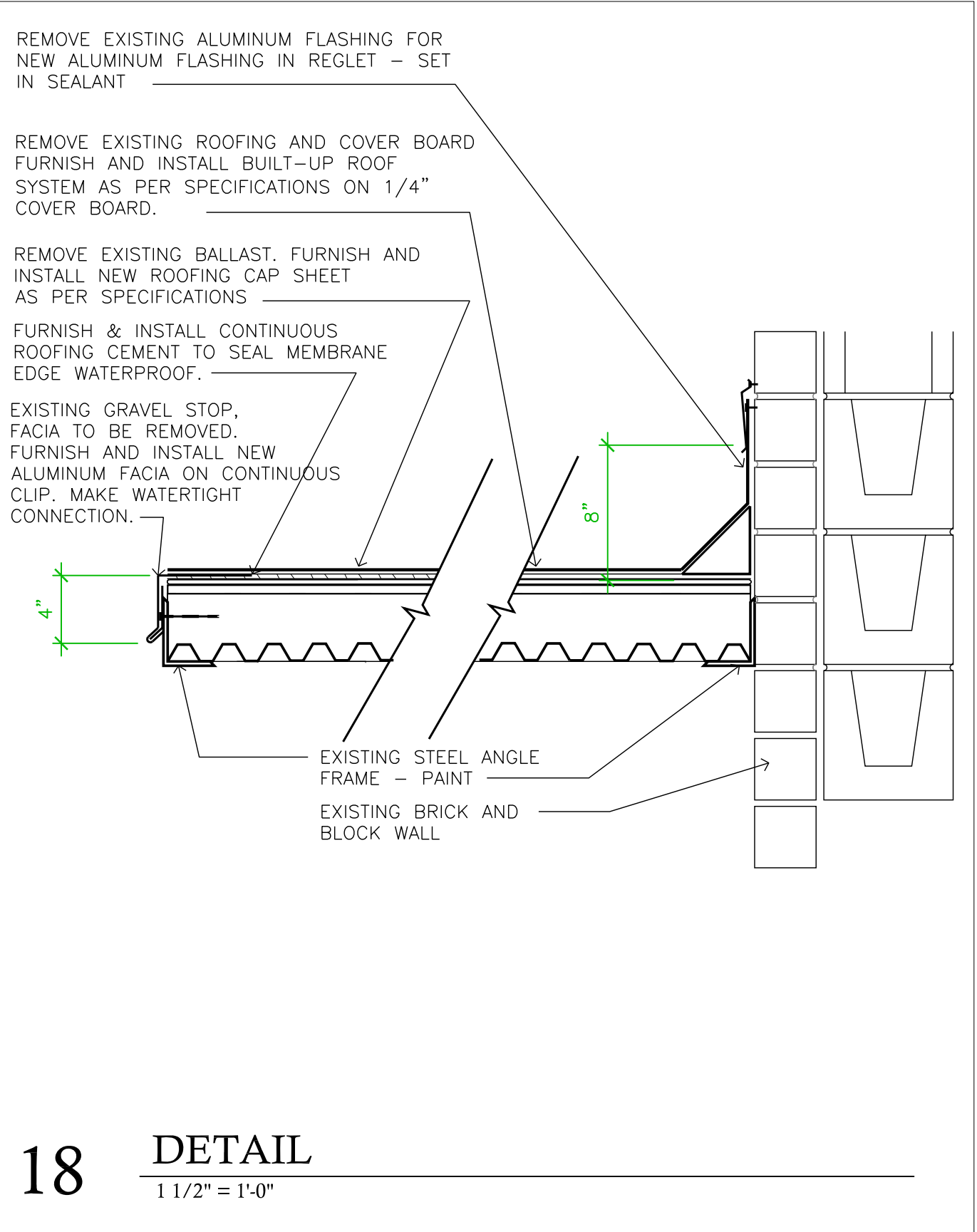
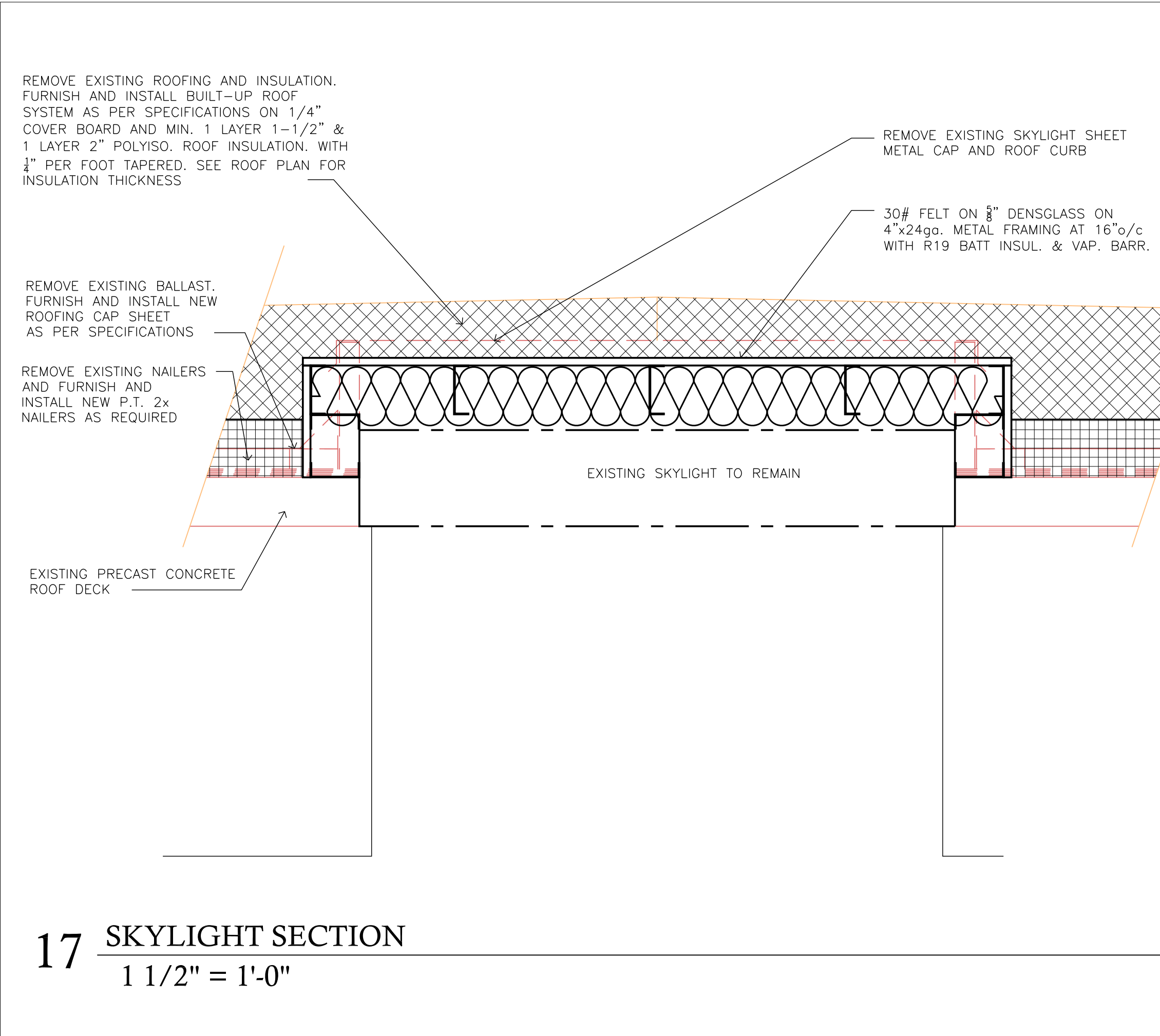
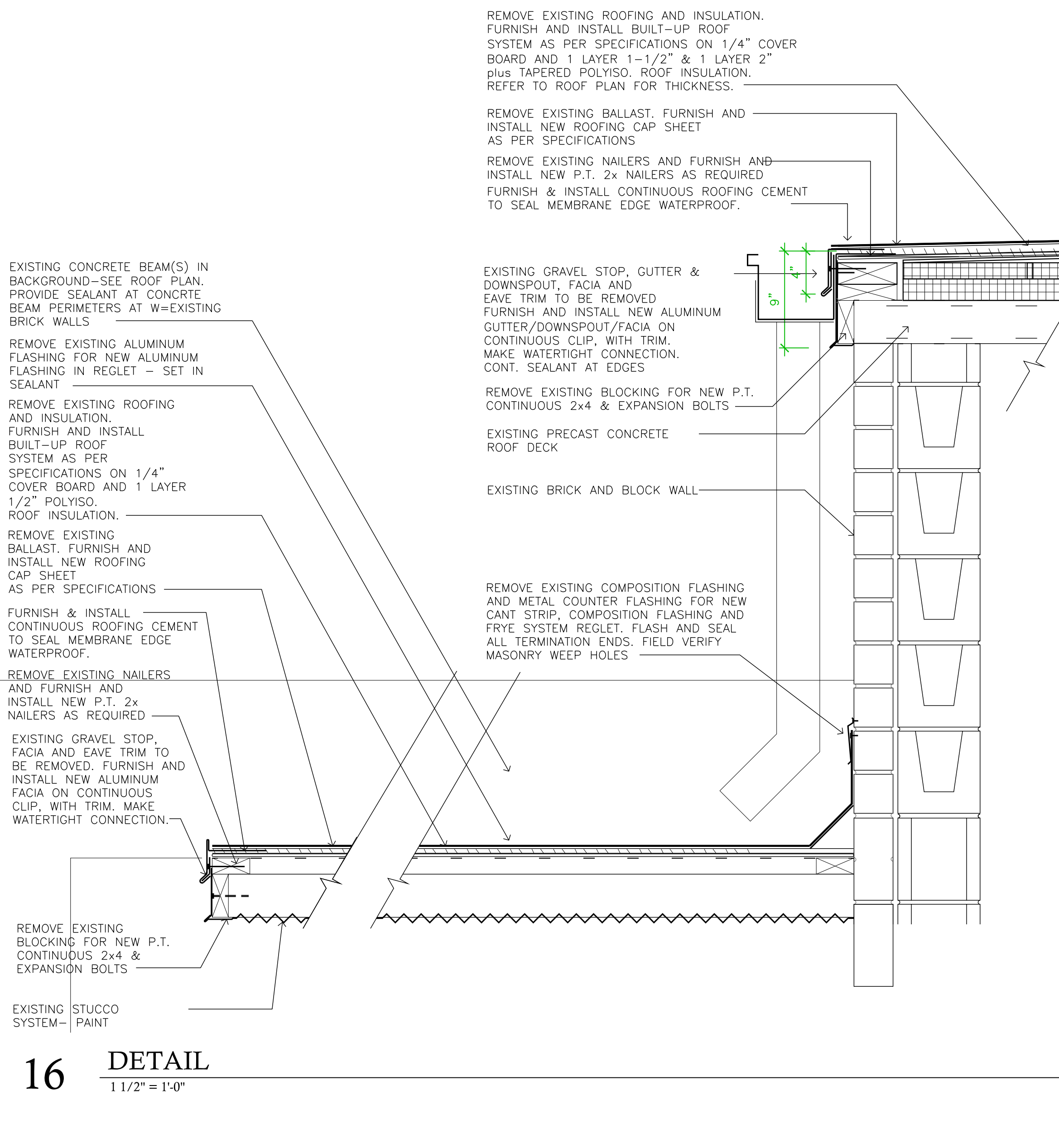
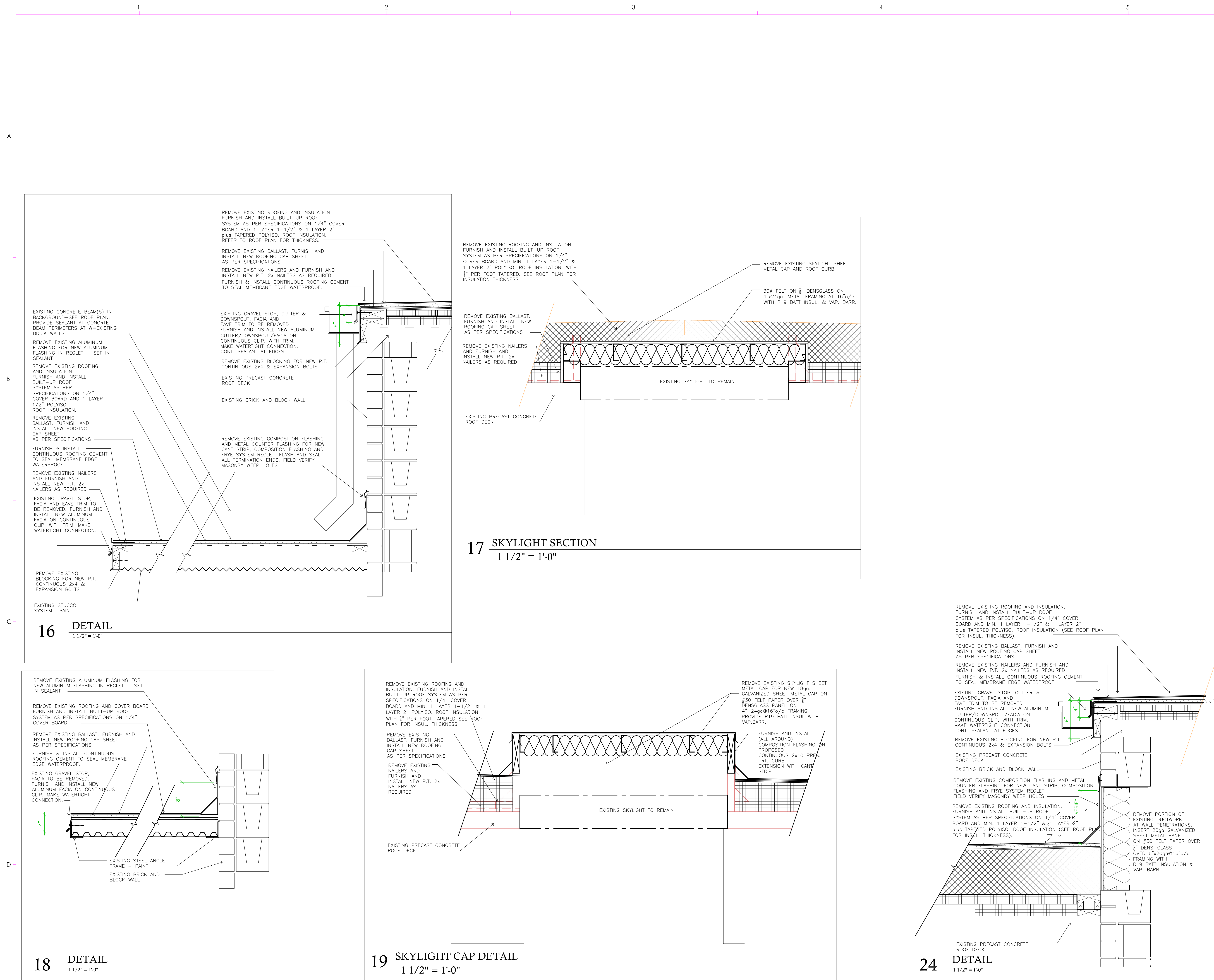
DESIGNED BY: HK
DRAWN BY: MR
CHECKED BY: LH

ISSUE DATE:
01/17/23

ROOF DETAILS

A504

SCALE: BID SET



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2

3

4

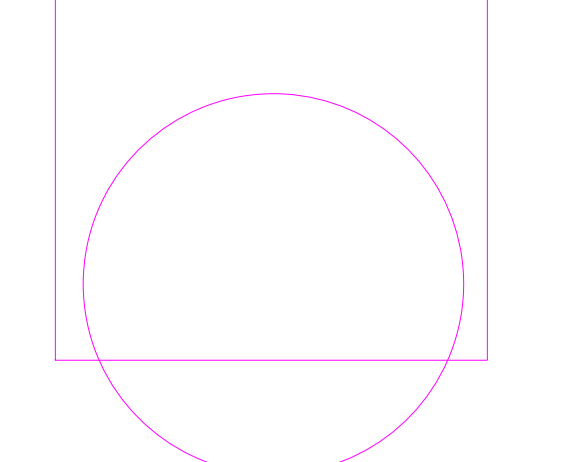
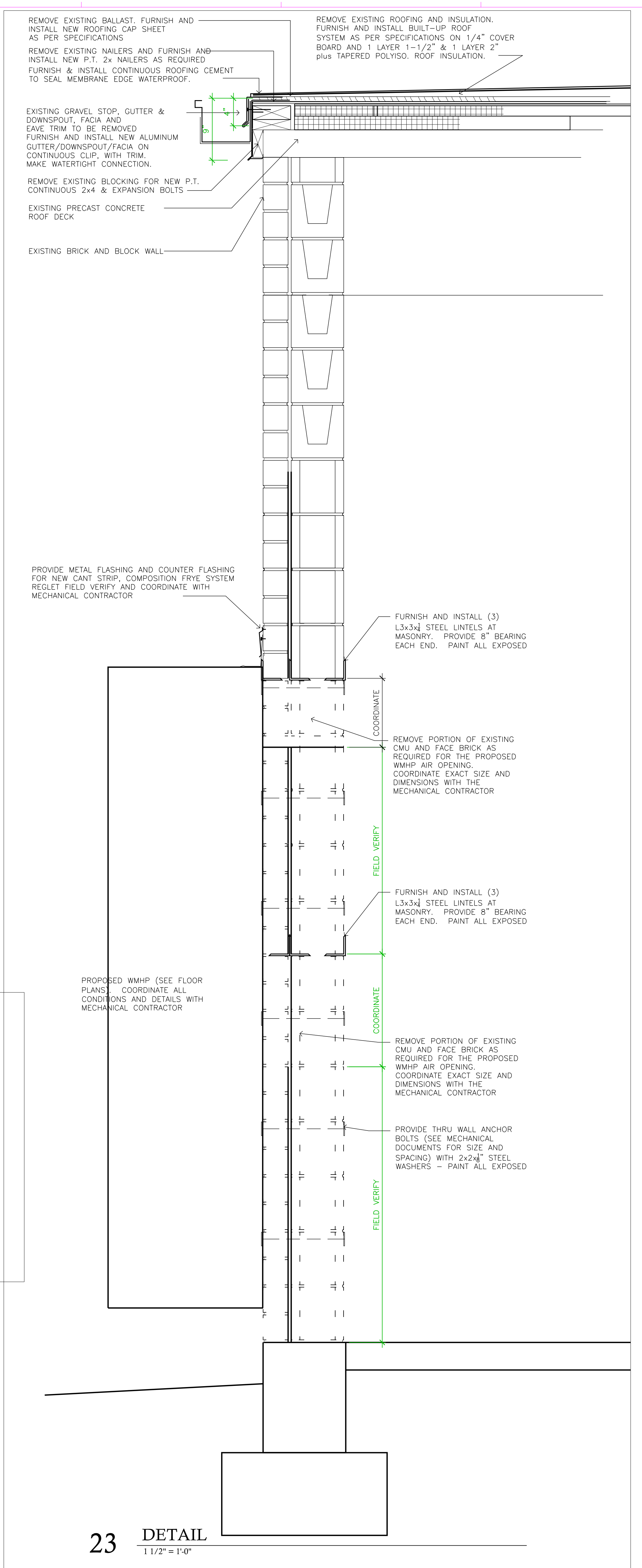
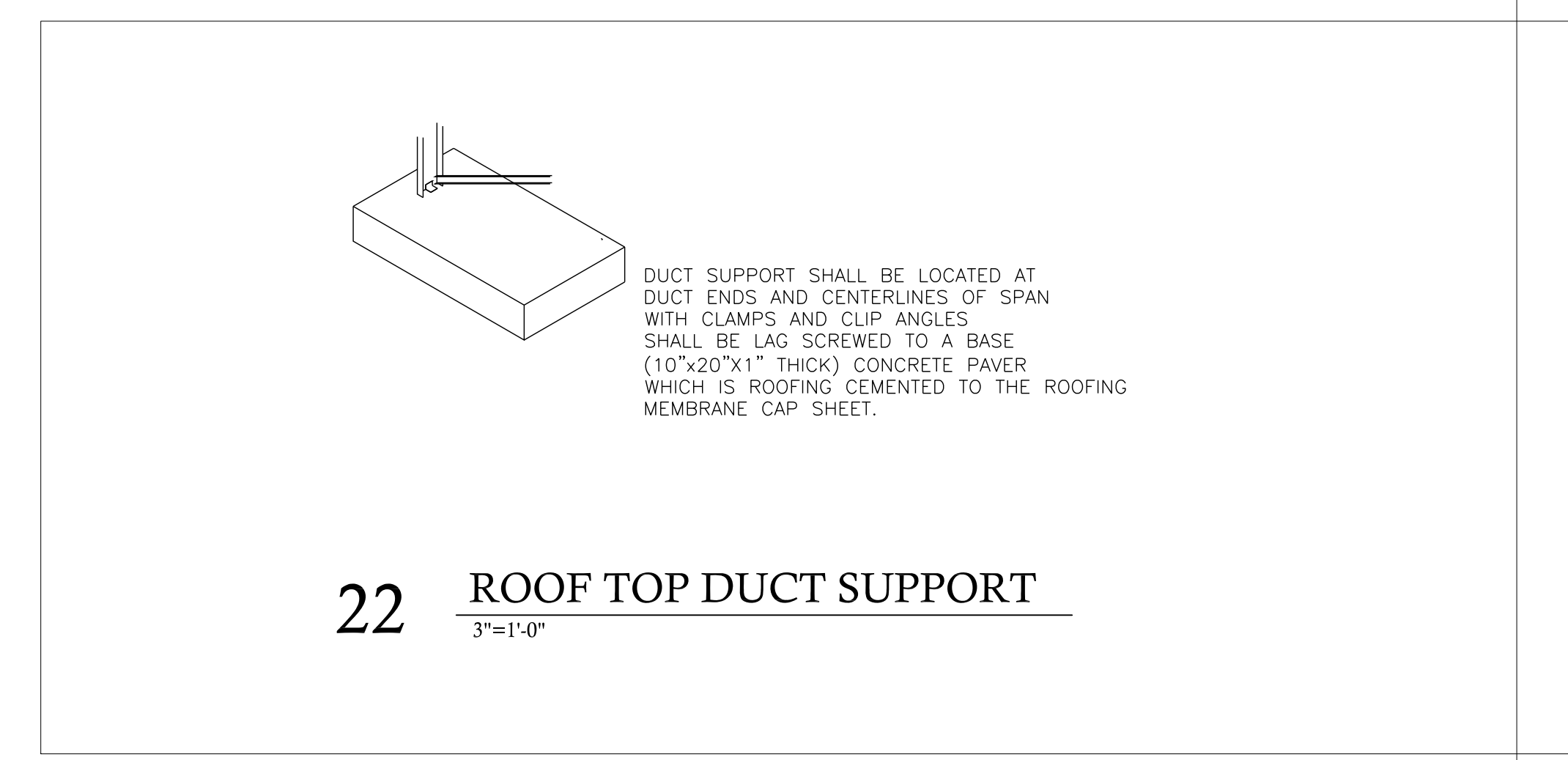
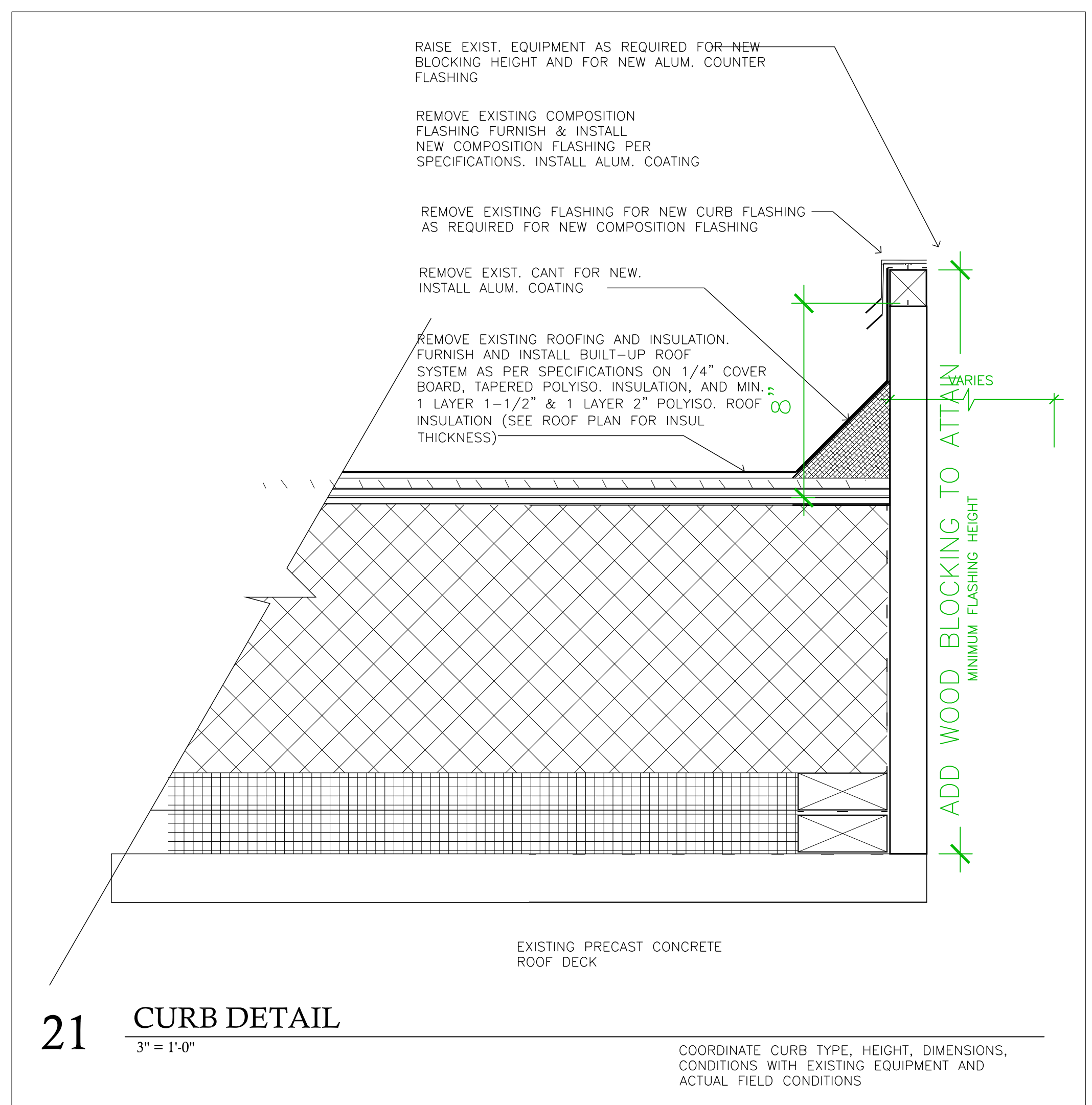
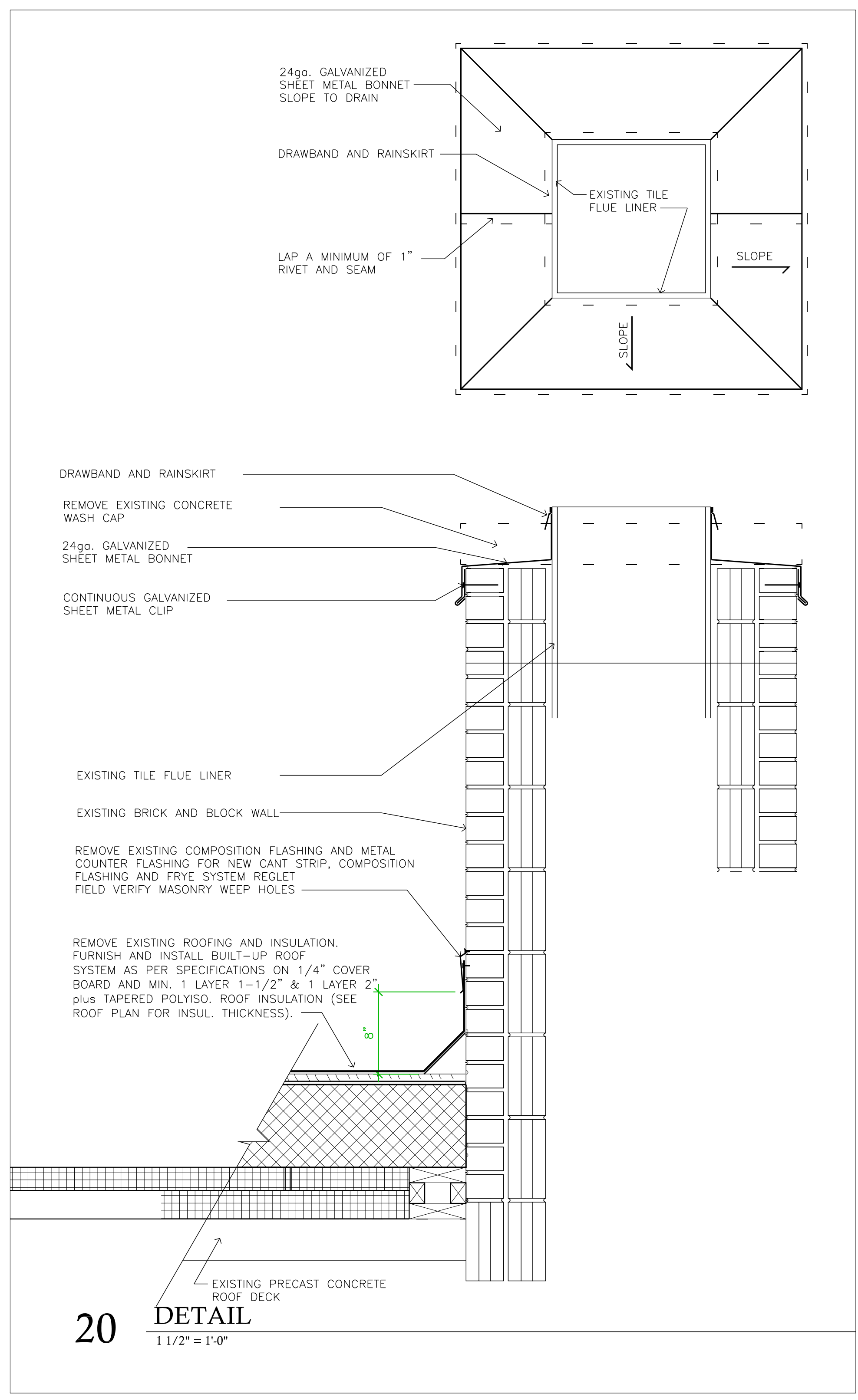
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A

B

C

D



HORRY COUNTY SCHOOLS CONWAY EDUCATION CENTER RE-ROOFING
1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

REVISION SCHEDULE

#	DESCRIPTION	DATE

KEY PLAN



SGA | NW DESIGN PROJECT NUMBER:
20225312.04

DESIGNED BY: HK
DRAWN BY: MR
CHECKED BY: LH

ISSUE DATE:
01/17/23

ROOF DETAILS

A505

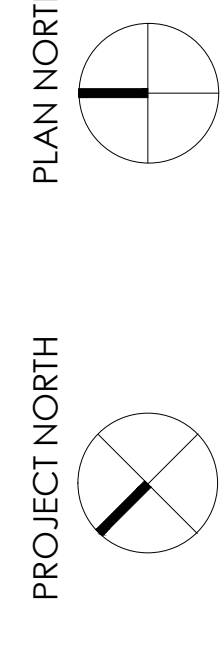
SCALE: BID SET

HORRY COUNTY SCHOOLS CENTER
RE-ROOFING

1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

#	REVISION	DESCRIPTION	DATE

KEY PLAN



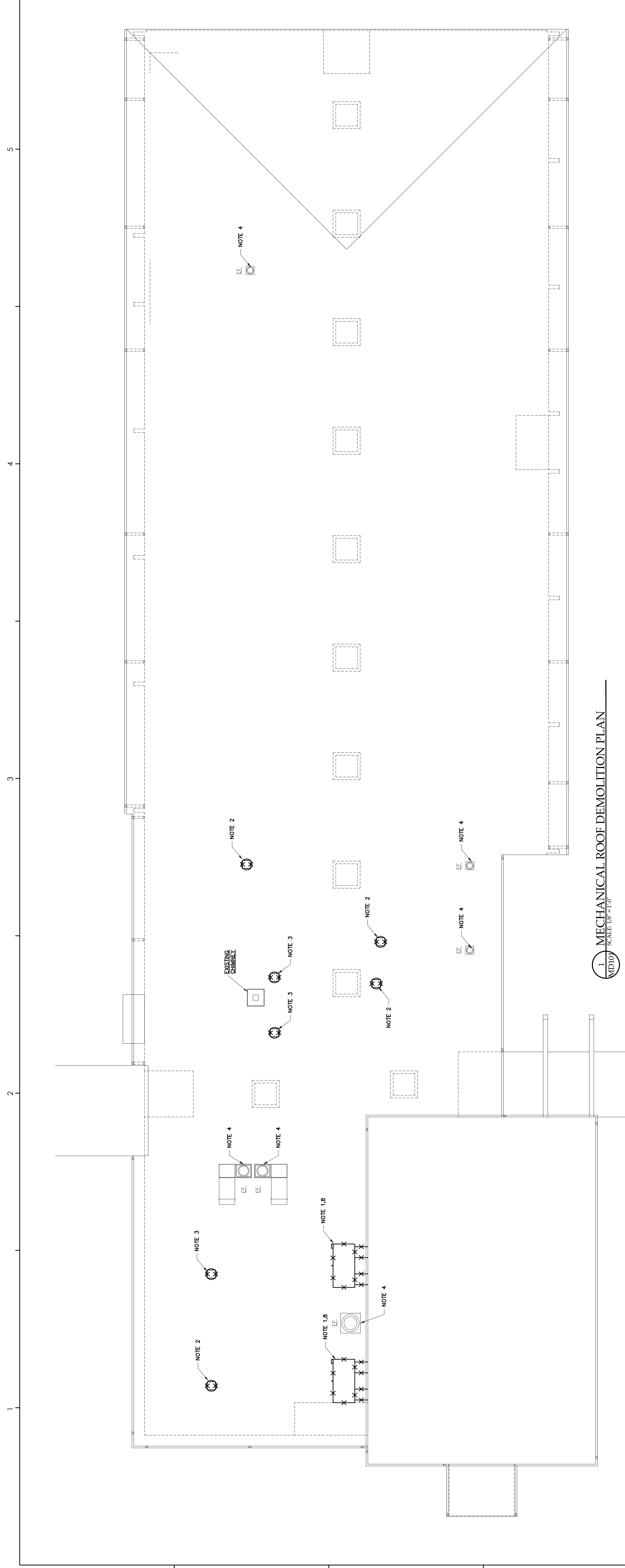
SGA | NW DESIGN PROJECT NUMBER:
20225312.04

DESIGNED BY: JEB
DRAWN BY: JEB
CHECKED BY: DER

ISSUE DATE:
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DEMOLITION ROOF AND FLOOR PLAN - HVAC

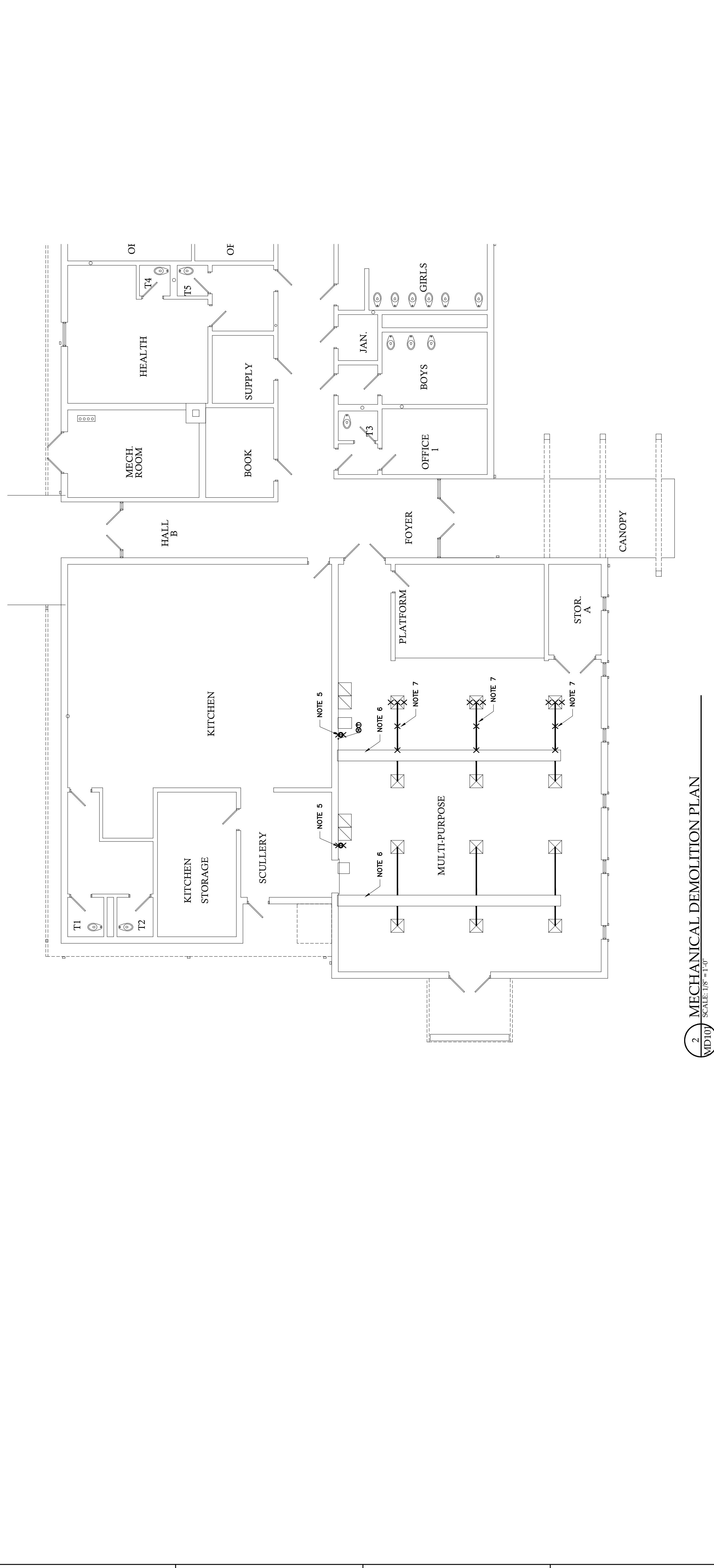
MD101



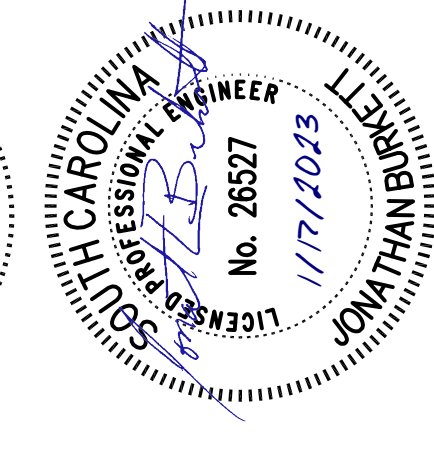
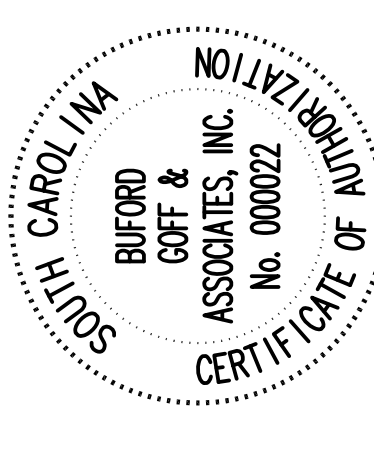
1. MECHANICAL ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

- GENERAL HVAC DEMOLITION NOTES**
- DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF DEMOLITION. CONTRACTOR SHALL VERIFY BEFORE BIDDING.
 - DEMOLITION OF EQUIPMENT, SYSTEMS AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROL STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
 - PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH. EXISTING SYSTEMS SHALL BE PATCHED.
 - ALL WALL, ROOF, SLAB, STRUCTURES AND FINISHES WHOSE FINISH IS TO BE DEMOLISHED SHALL BE PATCHED. PATCHES SHALL MATCH EXISTING ACCESSORIES AND APPURTENANCES SHALL BE PATCHED.
 - ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH, CEILING, FLOOR, ETC., DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT AND THE FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM 45 DEGREE.
 - REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER REMOVED (PIPE, CONDUIT, ETC.). SHALL BE REMOVED TO 1 INCH BELOW SURFACE.

- HVAC DEMOLITION KEY NOTES**
- DEMOLISH EXISTING UNIT AND CURB ON ROOF. DEMOLISH DUCTWORK BACK TO WALL PENETRATION AND CAP. PATCH WALL.
 - DEMOLISH EXISTING TURBINE VENTILATOR. PREP ROOF FOR NEW EXHAUST FAN.
 - DEMOLISH EXISTING TURBINE VENTILATOR. REPAIR ROOF.
 - REMOVE EXISTING FAN AND STORE SECURELY. DEMOLISH EXISTING CURB AND PREP ROOF FOR NEW CURB.
 - DEMOLISH EXISTING T-STAY.
 - ABANDON EXISTING DUCTWORK AND DIFFUSERS IN PLACE.
 - DEMOLISH EXISTING DUCTWORK AND DIFFUSERS FOR ALTERNATE #2.
 - MEASURE EXISTING UNIT AIRFLOW AND DISCHARGE AIR TEMPERATURE (COOLING) PRIOR TO DEMOLITION AND SUBMIT REPORT.
- TEST AND BALANCE**
- PRIOR TO DEMOLITION, MEASURE EACH ROOFTOP UNIT'S SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR AIRFLOW.
 - SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.



2. MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

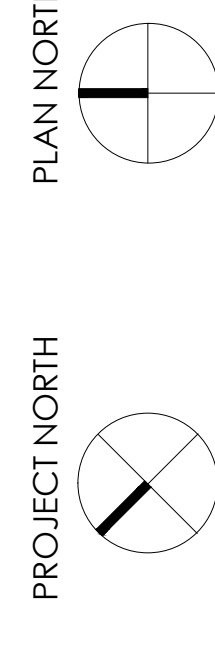


Buford Goff
& Associates, Inc.
Engineers & Planners
1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 251-6302

HORRY COUNTY SCHOOLS
CENTER
RE-ROOFING
1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

#	DESCRIPTION	DATE

KEY PLAN



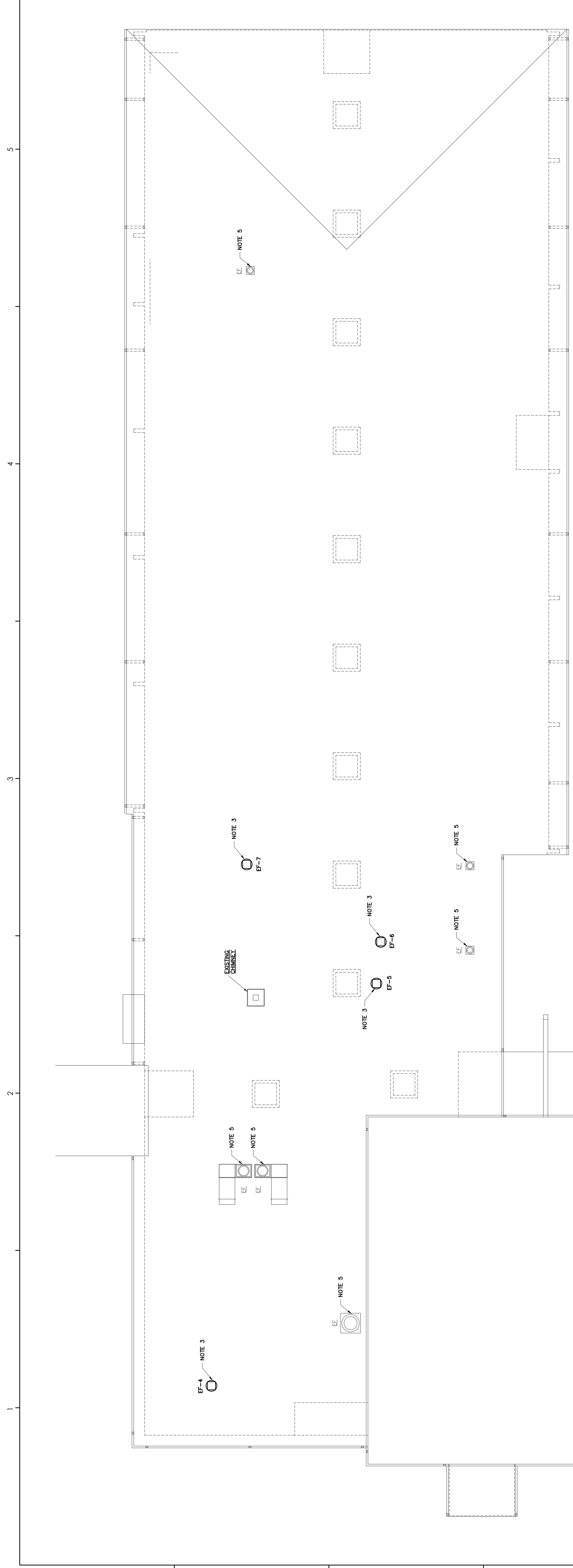
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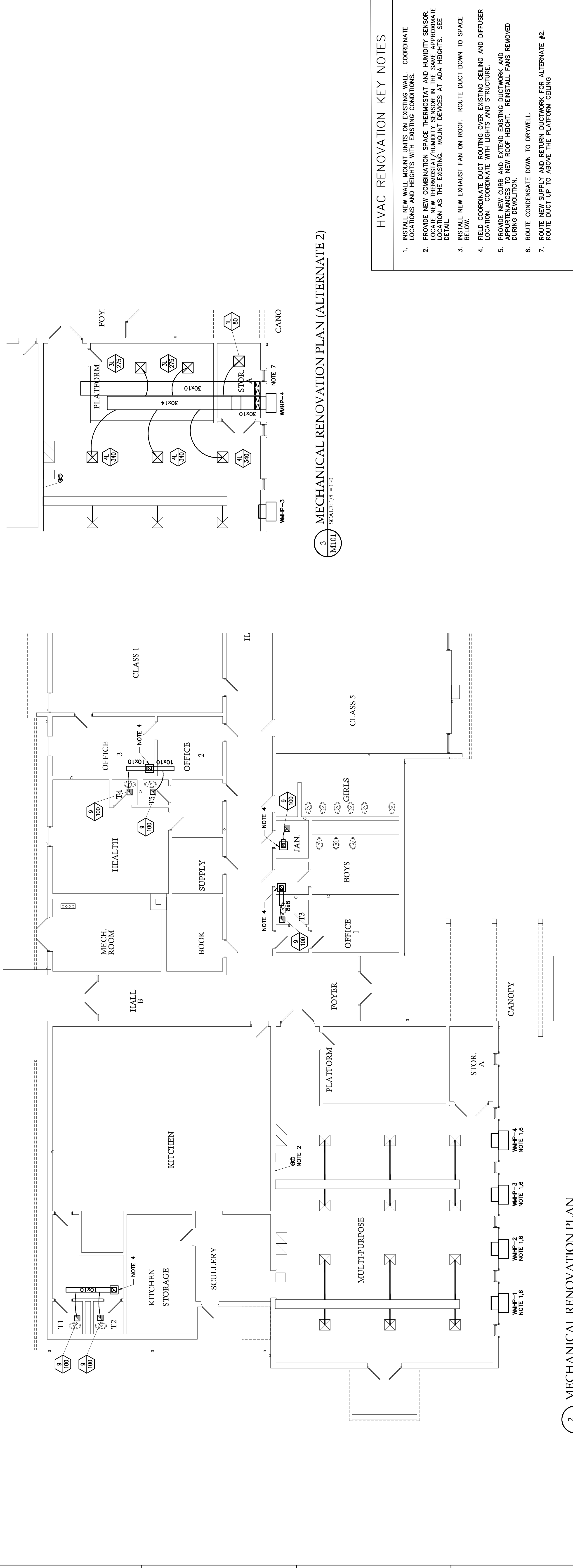
ISSUE DATE:
01/17/23

RENOVATION
ROOF AND FLOOR
PLAN - HVAC

M101



1. MECHANICAL ROOF RENOVATION PLAN
SCALE: 1/8" = 1'-0"



2. MECHANICAL RENOVATION PLAN
SCALE: 1/8" = 1'-0"

HVAC RENOVATION KEY NOTES

1. INSTALL NEW WALL MOUNT UNITS ON EXISTING WALL. COORDINATE LOCATIONS AND HEIGHTS WITH EXISTING CONDITIONS.
2. PROVIDE NEW COMBINATION SPACE THERMOSTAT AND HUMIDITY SENSOR. LOCATE NEW THERMOSTAT/HUMIDITY SENSOR IN THE SAME APPROXIMATE LOCATION AS THE EXISTING. MOUNT DEVICES AT 7' ADA HEIGHTS. SEE DETAIL.
3. INSTALL NEW EXHAUST FAN ON ROOF. ROUTE DUCT DOWN TO SPACE BELOW.
4. FIELD COORDINATE DUCT ROUTING OVER EXISTING CEILING AND DIFFUSER LOCATION. COORDINATE WITH LIGHTS AND STRUCTURE.
5. PROVIDE NEW CURB AND EXTEND EXISTING DUCTWORK AND APPURTENANCES TO NEW ROOF HEIGHT. REINSTALL FANS REMOVED DURING DEMOLITION.
6. ROUTE CONDENSATE DOWN TO DRYWELL.
7. ROUTE NEW SUPPLY AND RETURN DUCTWORK FOR ALTERNATE #2. ROUTE DUCT UP TO ABOVE THE PLATFORM CEILING.

LOUVERED CEILING AIR DISTRIBUTION SCHEDULE (A)(G)

SYMBOL	CFM	CONN. SIZE	NC	PD	REMARKS
1	0-99	6"	<15	.023	
2	100-199	8"	<15	.037	
3	200-299	10"	<15	.044	
4	300-399	12"	<15	.04	
5	400-599	14"	<15	.05	
6	600-699	15"	<15	.06	
7	700-899	15"	26	.11	

(G) LOUVERED FACE AIR DISTRIBUTION UNITS.
(b) ALSO DUCT RUNOUT SIZE IN INCHES (UNLESS LARGER RUNOUT INDICATED ON PLANS) TRANSITION TO NECK IF NECK DIFFERENT SIZE.
(c) LAY-IN TYPE UNITS SHALL HAVE 24" x 24" FACE PANEL AND SHALL BE INDICATED BY AN "L" SUFFIX. SEE SPECIFICATIONS FOR DIMENSIONS OF NON LAY-IN TYPE UNITS.
(d) UNITS WITH AN "F" SUFFIX SHALL BE TYPE SUITABLE FOR FIRE RATED CEILING/ROOF/FLOOR ASSEMBLIES. A NUMBER WILL ALSO BE SHOWN IF GREATER THAN 1 HOUR RATED.
(e) GRILLES SHALL BE:
1. LAY-IN SUPPLY: PRICE (A)S.D. TYPE 31 FRAME
2. LAY-IN RETURN: PRICE (A)S.D. TYPE 31 FRAME
3. SURFACE MTD SUPPLY/EXHAUST: PRICE (A)S.D. TYPE 31 FRAME
4. SURFACE MTD RETURN/EXHAUST: PRICE (A)S.D. TYPE 31 FRAME
5. FILTER RETURN GRILLE: PRICE (A)S.D.
6. FINISH: WHITE
(f) NC @ 10db ROOM ATTENUATION (Re: 10" WATTS), 4 WAY THROW
(g) CFM IS FOR GENERAL INFORMATION ONLY. SOME GRILLES MAY BE SIZED LARGER.
(h) TOTAL PRESSURE(IN.WG)
(i) WITH 24"x24" PANEL

SEISMIC AND WIND DESIGN CRITERIA

SEISMIC DESIGN
SEISMIC DESIGN CATEGORY (SDC): C
RISK CATEGORY: III
SPECTRAL RESPONSE COEFFICIENTS
SDs*: 0.322; Sd1*: 0.181
WIND DESIGN
BASIC WIND SPEED: 152 MPH
EXPOSURE CATEGORY: B
RISK CATEGORY: III
*REFER TO STRUCTURAL SHEET

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. USE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- CONDENSATE DRAINAGE SHALL BE INSTALLED. ALL DRAINAGES OF DIRECTION GREATER THAN 90 DEGREES.
3. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN TO MINIMIZE WATER PROBLEMS. ALL PARTITIONS AND PARTITIONS EXCEPT WERE PROVIDED BY THE OWNER.
4. LOCATE ALL THERMISTATS, HUMIDISTATS AND SWITCHES 4FT TO TOP OF DEVICES ABOVE FINISH FLOOR.
5. AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH OR MULTIPLE OUTLETS ON A BRANCH SHALL HAVE VOLUME BALANCING PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK CANALS. THE CONNECTIONS SHALL BE SEALED WITH A MADE DUCTED TAKEOFF MUST BE PROVIDED.
6. 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES.
7. ALL SPRING HOOKS, WELDS, ETC. EXTENDING FROM EXTERIOR WALLS TO INTERIORS SHALL BE SEALED TO WEATHERPROOFED.
8. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEADERS, AIR VOLUME CONTROLLERS, AIR HANDLING UNITS, FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
9. ALL DUCT IS GALVANIZED SHEETMETAL EXCEPT AS NOTED.
10. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
11. INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF FIFTEEN FEET AWAY FROM ANY EXHAUST OR VENT.
12. AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE.
13. ALL EQUIPMENT SHALL MEET THE PROJECT'S SEISMIC DESIGN AND WIND LOAD REQUIREMENTS.

MECHANICAL SYMBOL LEGEND

■ BACS-1 BUILDING AUTOMATION CONTROL SYSTEM NO. 1
■ S SWITCH
■ T THERMISTAT/SENSOR
■ H HUMIDISTAT/HUMIDITY SENSOR
DUCT TURNED TO RIGHT
DUCT TURNED AWAY
DUCT CAPPED
EQUIPMENT LOCATED ON ROOF
INSIDE DUCT DIMENSION
OPPOSED BLADE VOLUME DAMPER
FIRE DAMPER (FUSIBLE LINK)
CONCEALED REGULATOR
POUNDS OR NUMBER
10" x 10" ROUND DUCT (INSIDE DIM)

○ SUPPLY OR OUTSIDE AIR GRILLE
○ RETURN AIR GRILLE
○ EXHAUST AIR GRILLE
○ FLEX CONNECTION (DUCT)
○ FILTER SECTION
○ DUCT SMOKE DETECTORS
○ CONTROL WIRING
○ ACCESS DOOR
○ AIR DISTRIBUTION (OTHER SYMBOLS SHOWN)

MECHANICAL ABBREVIATIONS

ABB	DESCRIPTION	UNIT
ABV	ABOVE FINISH FLOOR	IN
AF	BUILDING AUTOMATION CONTROL SYSTEM	MFD
BKS	BRAKE HORSE POWER	MPS
BHP	BOTTOM OF PIPE	NO
BD	BOTTOM OF DUCT	NO
BOP	BOTTOM OF PIPE	NO
CFM	CUBIC FEET PER MINUTE	CC
CLG	CEILING	PD
CO	CLEAN OUT	PTD
D	DRAIN	PH
EF-1	EXHAUST FAN NO.1	SP
EFF	EFFICIENCY	TA
ELECT	ELECTRICAL	TC
ESP	EXTERNAL STATIC PRESSURE	TD
EXT	EXTERNAL	TEAO
FPS	FEET PER SECOND	TEFC
FT	FEET	UND
FLR	FLOOR	VEL
HP	HORSE POWER	VOLT
WMP-1	WALL MOUNTED HEAT PUMP NO. 1	

MECHANICAL GENERAL NOTES

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- CONDENSATE DRAINAGE SHALL BE INSTALLED. ALL DRAINAGES OF DIRECTION GREATER THAN 90 DEGREES.
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INDOOR SINGLE PACKAGE WALL MOUNTED HEAT PUMP SCHEDULE

FAN #	LOCATION	SERVICE	CFM	ESP	HP	RPM	SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
EF-4	ROOF	TOILET	200	0.5	1/4	1398	7.0	50	120/1	BACS	GREENHECK G-097-VG	12333307
EF-5	ROOF	TOILET	100	0.5	1/4	1124	4.6	50	120/1	BACS	GREENHECK G-097-VG	12333307
EF-6	ROOF	TOILET	100	0.5	1/4	1124	4.6	50	120/1	BACS	GREENHECK G-097-VG	12333307
EF-7	ROOF	TOILET	200	0.5	1/4	1398	7.0	50	120/1	BACS	GREENHECK G-097-VG	12333307

* SOUND LEVEL DOES NOT INCLUDE ANY UNIT ACOUSTICAL OPTIONS
① ROOFTOP FAN
② DIRECT DRIVE
③ BACKDRAFT DAMPER
④ DISCONNECT SWITCH
⑤ FAN MOTOR WITH DALI

PERFORATED CEILING AIR DISTRIBUTION SCHEDULE (B)(H)

SYMBOL	CFM	NO. SIZE (D)	RUNOUT	NC (E)	PD (F)	REMARKS
B	900	22x22	SEE DWGS	<15	< 0.02	
H	200	12x12	SEE DWGS	<15	< 0.02	

(G) PERFORATED FACE AIR DISTRIBUTION UNITS.
(b) GRILLES SHALL BE:
1. LAY-IN RETURN/EXHAUST: PRICE 10(A)
2. SURFACE MOUNTED RETURN/EXHAUST: PRICE 10(A)
3. FILTER RETURN GRILLE: PRICE 10(A/FF)
FINISH: WHITE
(c) CFM IS FOR GENERAL INFORMATION ONLY. SOME GRILLES MAY BE SIZED LARGER
(d) ALSO DUCT RUNOUT SIZE IN INCHES (UNLESS LARGER RUNOUT INDICATED ON PLANS). TRANSITION TO NECK IF NECK DIFFERENT SIZE
(e) NC @ 10db ROOM ATTENUATION (Re: 10-12 WATTS), 4 WAY THROW
(f) TOTAL PRESSURE (IN.WG)
(g) LAY-IN TYPE UNITS SHALL HAVE 24" x 24" FACE PANEL AND SHALL BE INDICATED BY AN "L" SUFFIX. SEE SPECIFICATIONS FOR DIMENSIONS OF NON LAY-IN TYPE UNITS

DUCT PRESSURE CLASSIFICATION

DUCT SYSTEM	PRESSURE CLASS	STATIC PRESSURE CLASS (\"w)
EXHAUST DUCT	ALL SYSTEM EXHAUSTS	NEG -2"
RETURN DUCT	ALL SYSTEM RETURNS	NEG -2"
SUPPLY DUCT	ALL SYSTEM SUPPLY	POS +2"

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SUPPLY DUCT	ALL SYSTEM SUPPLY	POS +2"

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RISK CATEGORY: III
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6. 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES.
7. ALL SPRING HOOKS, WELDS, ETC. EXTENDING FROM EXTERIOR WALLS TO INTERIORS SHALL BE SEALED TO WEATHERPROOFED.
8. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEADERS, AIR VOLUME CONTROLLERS, AIR HANDLING UNITS, FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
9. ALL DUCT IS GALVANIZED SHEETMETAL EXCEPT AS NOTED.
10. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
11. INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF FIFTEEN FEET AWAY FROM ANY EXHAUST OR VENT.
12. AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE.
13. ALL EQUIPMENT SHALL MEET THE PROJECT'S SEISMIC DESIGN AND WIND LOAD REQUIREMENTS.

SEISMIC AND WIND DESIGN CRITERIA

SEISMIC DESIGN
SEISMIC DESIGN CATEGORY (SDC): C
RISK CATEGORY: III
SPECTRAL RESPONSE COEFFICIENTS
SDs*: 0.322; Sd1*: 0.181
WIND DESIGN
BASIC WIND SPEED: 152 MPH
EXPOSURE CATEGORY: B
RISK CATEGORY: III
*REFER TO STRUCTURAL SHEET

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. USE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- CONDENSATE DRAINAGE SHALL BE INSTALLED. ALL DRAINAGES OF DIRECTION GREATER THAN 90 DEGREES.
3. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN TO MINIMIZE WATER PROBLEMS. ALL PARTITIONS AND PARTITIONS EXCEPT WERE PROVIDED BY THE OWNER.
4. LOCATE ALL THERMISTATS, HUMIDISTATS AND SWITCHES 4FT TO TOP OF DEVICES ABOVE FINISH FLOOR.
5. AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH OR MULTIPLE OUTLETS ON A BRANCH SHALL HAVE VOLUME BALANCING PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK CANALS. THE CONNECTIONS SHALL BE SEALED WITH A MADE DUCTED TAKEOFF MUST BE PROVIDED.
6. 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES.
7. ALL SPRING HOOKS, WELDS, ETC. EXTENDING FROM EXTERIOR WALLS TO INTERIORS SHALL BE SEALED TO WEATHERPROOFED.
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INDOOR SINGLE PACKAGE WALL MOUNTED HEAT PUMP SCHEDULE

FAN #	LOCATION	SERVICE	CFM	ESP	HP	RPM	SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
EF-4	ROOF	TOILET	200	0.5	1/4	1398	7.0	50	120/1	BACS	GREENHECK G-097-VG	12333307
EF-5	ROOF	TOILET	100	0.5	1/4	1124	4.6	50	120/1	BACS	GREENHECK G-097-VG	12333307
EF-6	ROOF	TOILET	100	0.5	1/4	1124	4.6	50	120/1	BACS	GREENHECK G-097-VG	12333307
EF-7	ROOF	TOILET	200	0.5	1/4	1398	7.0	50	120/1	BACS	GREENHECK G-097-VG	12333307

* SOUND LEVEL DOES NOT INCLUDE ANY UNIT ACOUSTICAL OPTIONS
① ROOFTOP FAN
② DIRECT DRIVE
③ BACKDRAFT DAMPER
④ DISCONNECT SWITCH
⑤ FAN MOTOR WITH DALI

PERFORATED CEILING AIR DISTRIBUTION SCHEDULE (B)(H)

SYMBOL	CFM	NO. SIZE (D)	RUNOUT	NC (E)	PD (F)	REMARKS
B	900	22x22	SEE DWGS	<15	< 0.02	
H	200	12x12	SEE DWGS	<15	< 0.02	

(G) PERFORATED FACE AIR DISTRIBUTION UNITS.
(b) GRILLES SHALL BE:
1. LAY-IN RETURN/EXHAUST: PRICE 10(A)
2. SURFACE MOUNTED RETURN/EXHAUST: PRICE 10(A)
3. FILTER RETURN GRILLE: PRICE 10(A/FF)
FINISH: WHITE
(c) CFM IS FOR GENERAL INFORMATION ONLY. SOME GRILLES MAY BE SIZED LARGER
(d) ALSO DUCT RUNOUT SIZE IN INCHES (UNLESS LARGER RUNOUT INDICATED ON PLANS). TRANSITION TO NECK IF NECK DIFFERENT SIZE
(e) NC @ 10db ROOM ATTENUATION (Re: 10-12 WATTS), 4 WAY THROW
(f) TOTAL PRESSURE (IN.WG)
(g) LAY-IN TYPE UNITS SHALL HAVE 24" x 24" FACE PANEL AND SHALL BE INDICATED BY AN "L" SUFFIX. SEE SPECIFICATIONS FOR DIMENSIONS OF NON LAY-IN TYPE UNITS

INDOOR SINGLE PACKAGE WALL MOUNTED HEAT PUMP SCHEDULE

FAN #	LOCATION	SERVICE	CFM	ESP	HP	RPM	SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
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INDOOR SINGLE PACKAGE WALL MOUNTED HEAT PUMP SCHEDULE

FAN #	LOCATION	SERVICE	CFM	ESP	HP	RPM	SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
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⑤ FAN MOTOR WITH DALI

INDOOR SINGLE PACKAGE WALL MOUNTED HEAT PUMP SCHEDULE

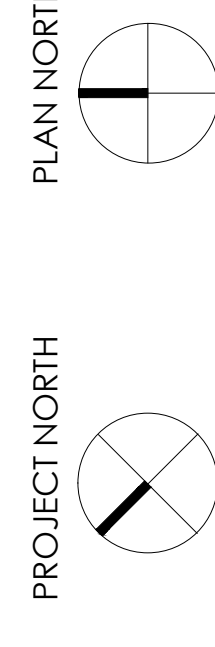
FAN #	LOCATION	SERVICE	CFM	ESP	HP	RPM	SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
EF-4	ROOF	TOILET	200	0.5	1/4	1398	7.0	50	120/1	BACS	GREENHECK G-097-VG	12333307
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④ DISCONNECT SWITCH
⑤ FAN MOTOR WITH DALI

HORRY COUNTY SCHOOLS
CONWAY EDUCATION CENTER
RE-ROOFING
1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

#	REVISION	SCHEDULE	DATE

KEY PLAN



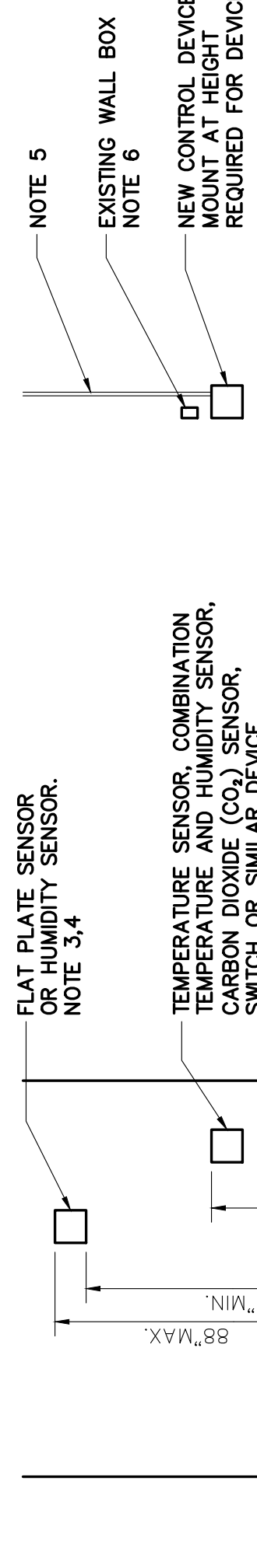
SGA | NW DESIGN PROJECT NUMBER:
202225312.04

DESIGNED BY: JEB
DRAWN BY: JEB
CHECKED BY: DER

ISSUE DATE:
01/17/23

HVAC DETAILS

M301



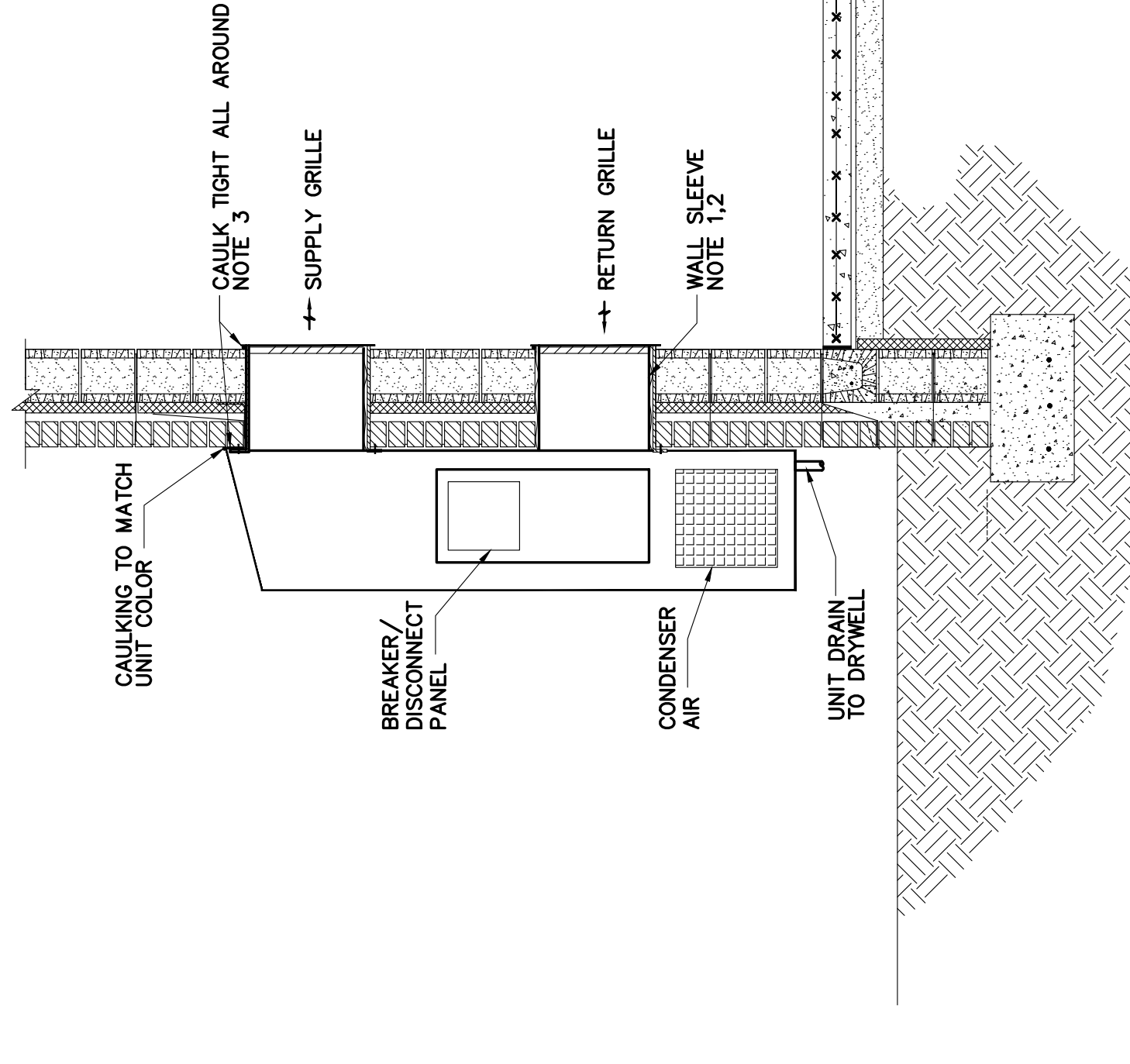
EXISTING CONSTRUCTION

NOTES:

- DEVICES THAT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
- 44" TO TOP OF DEVICE WHEN OBSTACLE (SHELVING, COUNTER, ETC.) IN FRONT OF DEVICE.
- DEVICES THAT DO NOT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
- HEIGHT SHALL BE AS INDICATED UNLESS A DEVICE IS SPECIFICALLY REQUIRED TO BE LOCATED AT ANOTHER HEIGHT TO PERFORM ITS INTENDED FUNCTION.
- PROVIDE SURFACE METAL RELAY (WIREMOULD) ON EXISTING WALL. WHERE CONTROLS CANNOT BE INSTALLED IN THE WALL.
- PROVIDE OVERSIZED STAINLESS STEEL BLANK COVER PLATE IF BOX IS NOT REUSED.

DEVICE MOUNTING HEIGHT

3714 NOT TO SCALE 2/18

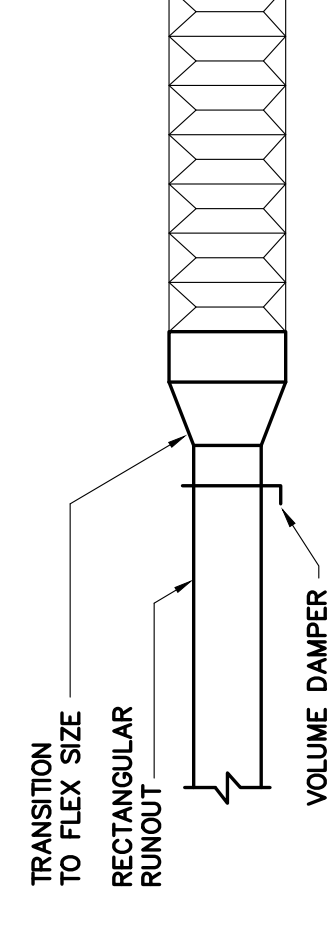


NOTES:

- VERIFY WALL THICKNESS PRIOR TO FABRICATION OF SLEEVE.
- LINED WALL SLEEVE.
- CAULK ALL AROUND DUCT BETWEEN THE DUCT AND WALL AT THE EXTERIOR WALL AND INTERIOR WALL.

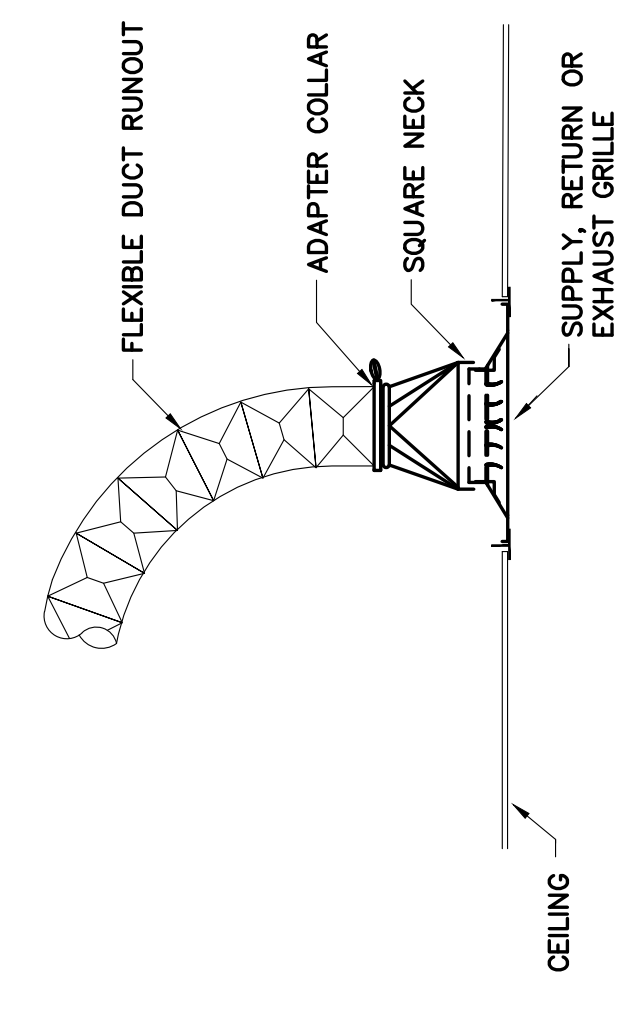
OUTDOOR WALL MOUNTED HEAT PUMP DETAIL

3026 NOT TO SCALE 3/16



DUCT TRANSITION TO RUNOUT FLEX

3027 NOT TO SCALE



NOTES:

- FLEX DUCT SHALL BE STRAPPED TO COLLAR.
- PROVIDE ROUND TO SQUARE GRILLE ADAPTER.

FLEXIBLE DUCT CONNECTION TO GRILLE DETAIL

30470 NOT TO SCALE 2/13

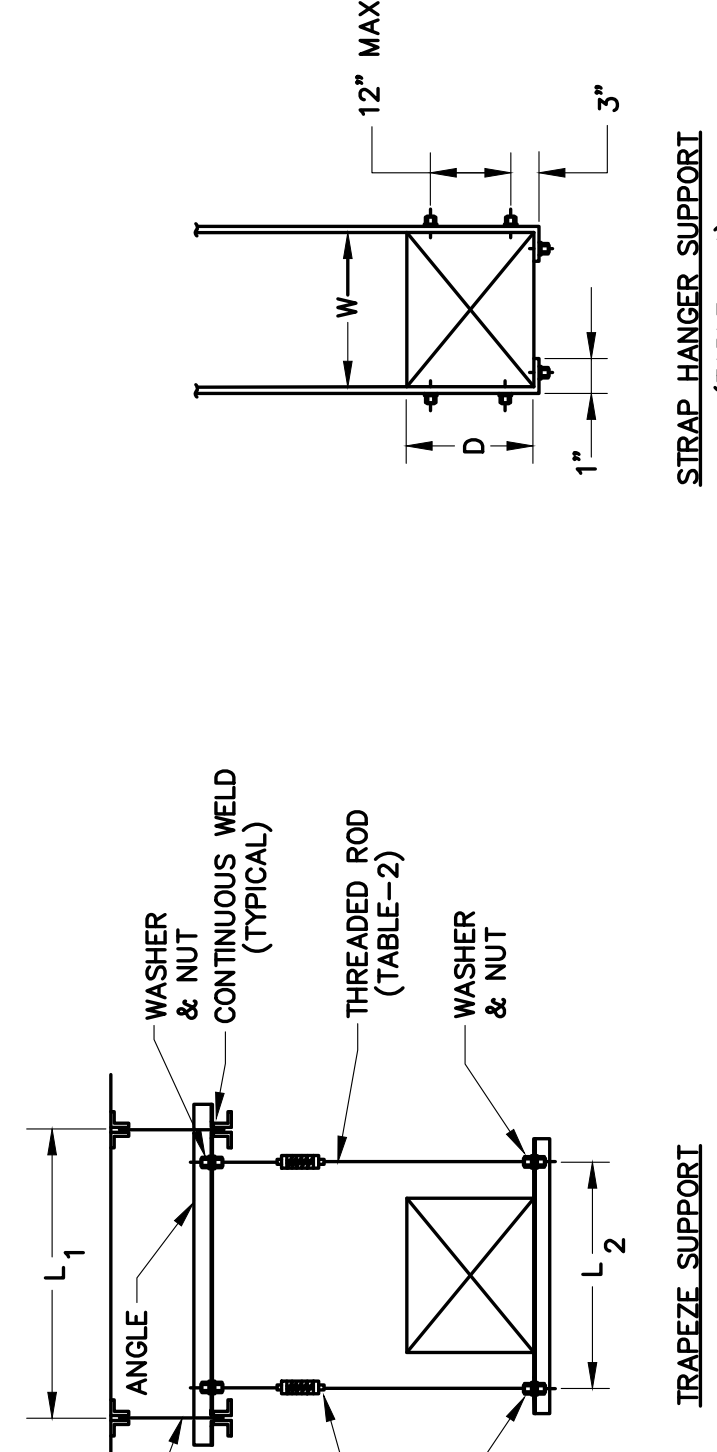


TABLE 1 STRAP HANGERS (PAIR) SPACED		TABLE 2 ALLOWABLE HANGER LOADS - MAX.		TABLE 3 TRAPEZOID ANGLE LOAD - MAX.	
W x D MAX.	10'-0" MAX.	STRAPS	RODS	L ₁ OR L ₂	2'-1/2" x 2'-1/2" x 1/4"
72"	1" x 220Ga	2 - 1" x 220Ga	2 - 1/4" DIA	36"	1200 LBS.
84"	1" x 200Ga	2 - 1" x 200Ga	2 - 3/8" DIA	48"	1160 LBS.
120"	1" x 180Ga	2 - 1" x 180Ga	2 - 1/2" DIA	60"	1080 LBS.
168"	1" x 160Ga	2 - 1" x 160Ga	2 - 5/8" DIA	72"	860 LBS.
192"	1" x 160Ga	2 - 1" x 160Ga	2 - 3/4" DIA	84"	660 LBS.
				96"	320 LBS.

DUCT SUPPORT DETAILS (NON-SEISMIC)

3053 NOT TO SCALE 05/08

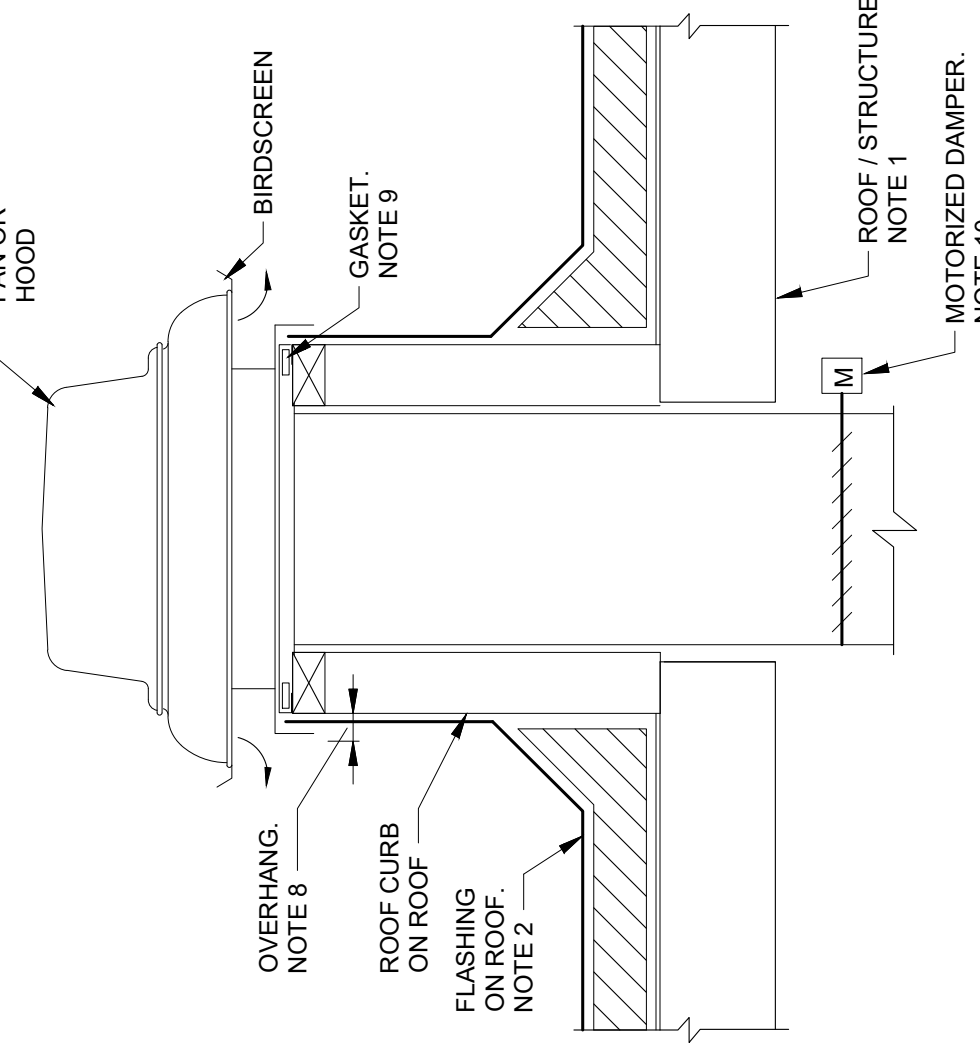
TAKEOFF	PLAN SYMBOL	REQUIRED FITTING
TYPE 1	[Symbol: Square to round fitting]	SQUARE TO ROUND AS REQUIRED
TYPE 2	[Symbol: Flexible duct fitting]	FLEXIBLE DUCT (VD) VOLUME DAMPER (VD)
TYPE 3	[Symbol: Square to round fitting]	SEE TYPE 1 OR TYPE 2 TAKEOFF

NOTES:

- OTHER PLAN SYMBOLS SIMILAR.
- SUPPLY, RETURN AND EXHAUST SIMILAR.
- A SPIN-IN CONNECTION WITH BUTTERFLY BALANCE DAMPER PERMITTED UNLESS A SPECIFIC FITTING IS INDICATED OR REQUIRED (SUCH AS A CONCEALED REGULATOR DAMPER, ETC.) SUPPLY SPIN-INS SHALL BE PROVIDED WITH A SCOOP.
- PROVIDE 2" STAND OFF BRACKET FOR DAMPER CONTROL ON INSULATED DUCT. FOR SPIN IN DAMPERS, PROVIDE A SHAFT EXTENSION.

LOW PRESSURE DUCT TAKEOFFS

3056 NOT TO SCALE 03/12

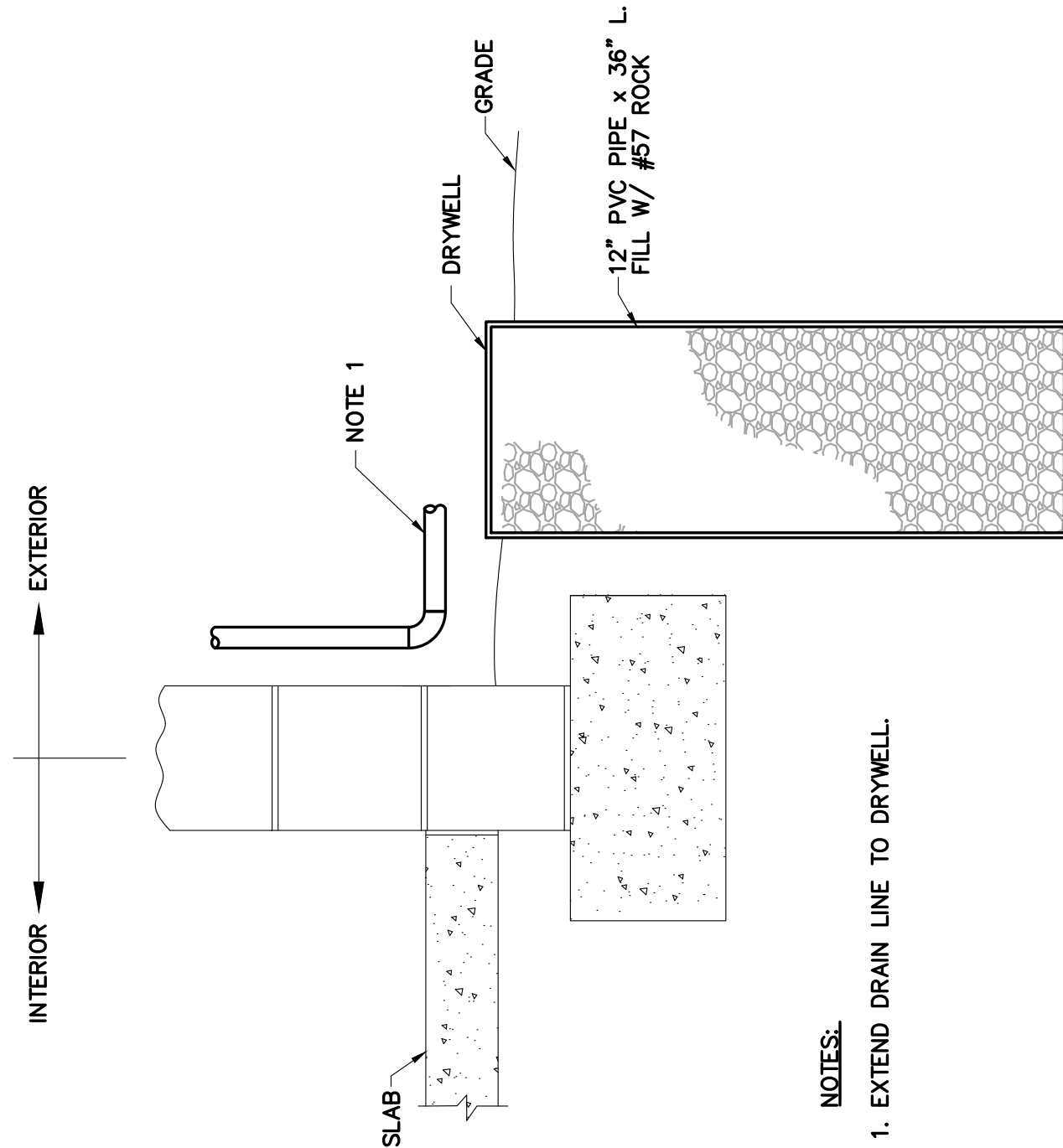


NOTES:

- SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF / STRUCTURE CONSTRUCTION.
- FLASHING ON ROOF IS DIAGRAMMED ONLY. SEE ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS. FLASHING SHALL BE INSTALLED WITH ROOFING WORK.
- PROVIDE ROOF CURB TO MATCH ROOF SLOPE.
- SEE SPECIFICATIONS FOR TYPE OF CURB REQUIRED.
- SEE SPECIFICATIONS FOR MATERIALS REQUIRED.
- ANCHOR CURB TO STRUCTURE. SEE SEISMIC FOR ADDITIONAL REQUIREMENTS.
- ATTACH CAP TO CURB 12" O.C. MINIMUM, 2 PER SIDE.
- PROVIDE 3/4" SPACE BETWEEN PLENUM OR CAP OVERHANG AND CURB FOR ROOFING AND FLASHING.
- PROVIDE 18" NEOPRENE OR ELASTOMERIC GASKET BETWEEN THE CURB AND EQUIPMENT.
- MOTORIZED DAMPER WHERE SPECIFIED OR INDICATED ON PLANS.

ROOFTOP FAN/HOOD

3060 NOT TO SCALE 08/19

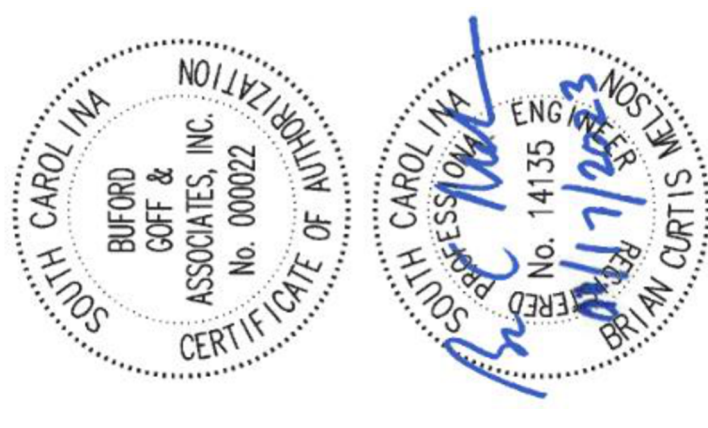


NOTES:

- EXTEND DRAIN LINE TO DRYWELL.

DRYWELL DETAIL

NOT TO SCALE



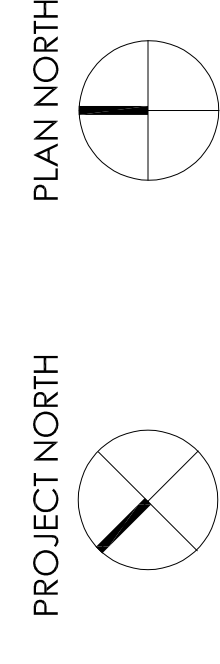
Buford Goff & Associates, Inc.
Engineers & Planners

1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 251-6302

HORRY COUNTY SCHOOLS CENTER RE-ROOFING
1602 SHERWOOD DRIVE
CONWAY, SOUTH CAROLINA

#	REVISION	DESCRIPTION	SCHEDULE	DATE

KEY PLAN



SGA | NW DESIGN PROJECT NUMBER:
20225312.04

DESIGNED BY: BCM
DRAWN BY: MTH
CHECKED BY: BCM

ISSUE DATE:
01/17/23

PARTIAL FLOOR PLAN - ELECTRICAL

E101

