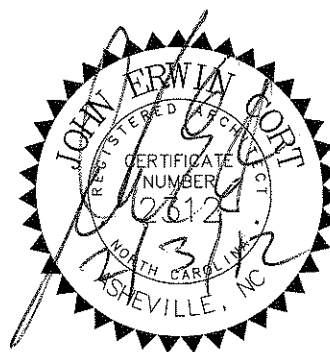


BUNCOMBE COUNTY SCHOOLS ERWIN HIGH SCHOOL E WING ROOF REPLACEMENT Asheville, North Carolina

January 31, 2012

CORT ARCHITECTURAL GROUP, P.A.
239 HAYWOOD STREET
ASHEVILLE, NC 28801

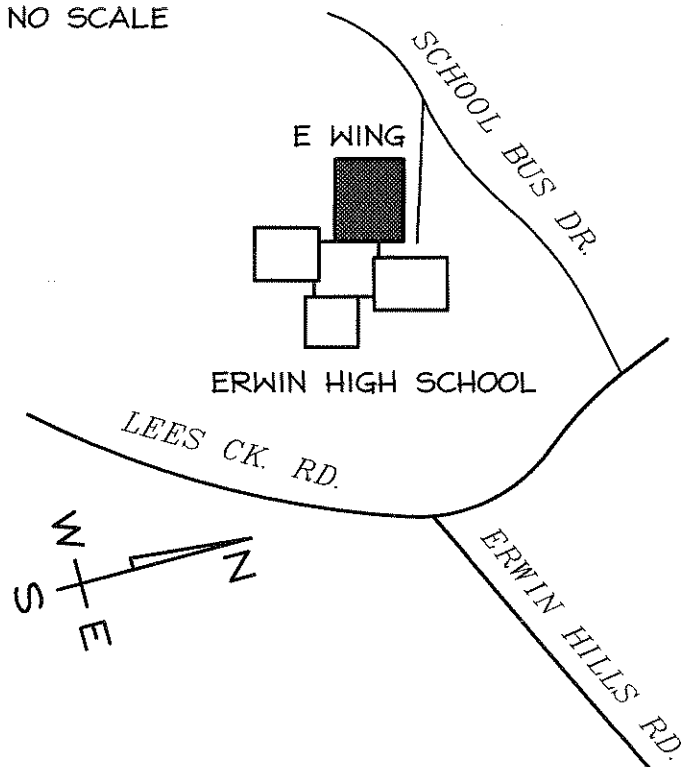
PLUMBING, MECHANICAL, AND
ELECTRICAL DESIGN
ESSENTIAL SYSTEMS ENGINEERING, P.A.
109 CENTRAL AVENUE
ASHEVILLE, NC 28801



STRUCTURAL DESIGN
SUTTON-KENNERLY AND ASSOCIATES, INC.
530 HENDERSONVILLE ROAD
ASHEVILLE, NC 28803

SITE LOCATION MAP

NO SCALE



SHEET SCHEDULE

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
GENERAL			
101	EXISTING CONDITIONS PLAN	PLUMBING	
102	DEMOLITION PLAN	P1.0	PLUMBING ROOF PLAN
103	EQUIPMENT ENCLOSURE PLAN	P1.1	EQUIPMENT ENCLOSURE PLAN
104	ROOF PLAN	MECHANICAL	
105	ROOF INSULATION SECTIONS	M1.0	HVAC ROOF PLAN
106	ROOF DETAILS	M1.1	EQUIPMENT ENCLOSURE PLAN
107	ROOF DETAILS	ELECTRICAL	
108	ROOF DETAILS	E0.1	GENERAL NOTES
109	ROOF DETAILS	E0.2	ELECTRICAL SYMBOL SCHEDULE
110	ROOF DETAILS	E1.0	ELECTRICAL ROOF PLAN
		E1.1	EQUIPMENT ENCLOSURE PLAN

OWNER AND DESIGNER DATA

PROJECT IDENTIFICATION:
 NAME OF PROJECT: BUNCOMBE COUNTY SCHOOLS
 ERWIN HIGH SCHOOL E WING ROOF REPLACEMENT
 60 LEES CREEK ROAD, ASHEVILLE, NC 28806
 OWNER/CONTACT PERSON: TIMOTHY FIERLE, AIA
 PHONE (828) 255-5916
 CODE ENFORCEMENT JURISDICTION: BUNCOMBE COUNTY

DESIGNERS OF RECORD:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
ARCHITECTURAL	CORT ARCHITECTURAL GROUP	JOHN E. CORT	2312	(828) 251-5100
ELECTRICAL	ESSENTIAL SYSTEMS ENGINEERING	DALE REYNOLDS	26643	(828) 232-1695
PLUMBING	ESSENTIAL SYSTEMS ENGINEERING	ROBERT WIGGINS	9577	(828) 232-1695
MECHANICAL	ESSENTIAL SYSTEMS ENGINEERING	ROBERT WIGGINS	9577	(828) 232-1695
STRUCTURAL	SUTTON-KENNERLY & ASSOCIATES	ROBIN KANIPE	10103	(828) 274-4440

LEGEND

SECTION NUMBER	SECTION SYMBOL	SHEET NUMBER

BID DATA

PRE-BID CONFERENCE

LOCATION: EXECUTIVE CONFERENCE ROOM
 BUNCOMBE COUNTY BOARD OF EDUCATION
 175 BINGHAM ROAD
 ASHEVILLE, NC 28806
 DATE: FEBRUARY 23, 2012
 TIME: 9:00 AM

BID OPENING

LOCATION: EXECUTIVE CONFERENCE ROOM
 BUNCOMBE COUNTY BOARD OF EDUCATION
 175 BINGHAM ROAD
 ASHEVILLE, NC 28806
 DATE: MARCH 7, 2012
 TIME: 2:00 PM

CLASSROOM
ADDITION ROOF
NOT IN CONTRACT

'E' WING

'E' WING ROOF TO
BE REPLACED UNDER
THIS CONTRACT.

STAFF
PARKING LOT

STAGING AREA - INSTALL FENCE
MAY 2-AUGUST 14.

6'-0" HIGH CHAIN
LINK FENCE AROUND
STAGING AREA

'A', 'B', 'C' AND
'D' WING ROOFS
NOT IN CONTRACT

'D' WING

ROOF ACCESS AREA

10'-0" WIDE GATE

STAFF PARKING LOT

'B' WING

'A', 'B', 'C' AND
'D' WING ROOFS
NOT IN CONTRACT

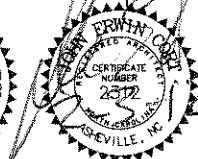
'C' WING

'A' WING

1
101

EXISTING CONDITIONS PLAN

SCALE: 1" = 50'-0"



**CORI ARCHITECTURAL
GROUP, PA**

BUNCOMBE COUNTY SCHOOLS
ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina

Project Number
1125
Date
JANUARY 31, 2012
Asheville, N.C. 28801
239 Haywood Street
828.251.5100
FAX 252.8535

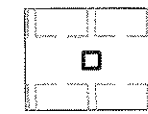
Sheet Number
101

CLASSROOM
ADDITION
N.I.C.



'E' WING

PLAN KEY



OUTLINE OF THE STRUCTURAL CONCRETE COLUMNS AND BEAMS LOCATED BELOW THE EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING MEMBRANE AND OTHER ROOFING SYSTEM COMPONENTS DOWN TO THE EXISTING CONCRETE DECK.

NO WORK IN AREA INDICATED AS "NOT IN CONTRACT" (N.I.C.) STOCK PILING MATERIALS AND FOOT TRAFFIC SHALL NOT BE PERMITTED IN N.I.C. AREAS.

EXISTING FAN OR VENTILATOR AND CURB TO BE REMOVED. REINSTALL FAN OR VENTILATOR ON NEW INSULATED CURB. EXTEND MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED. SEE DETAIL 1/108, TYP.

REMOVE EXISTING METAL COVER AND CURBS. INFILL OPENING WITH COMPOSITE DECKING AND CONCRETE. SEE DETAIL 1/110 AND EQUIPMENT ENCLOSURE PLANS ON SHEET 103.

EXTEND EXISTING PLUMBING VENT THROUGH ROOF. SEE DETAIL 3/106.

EXISTING ROOF DRAIN TO REMAIN. CLEAN DRAIN BODY, RE-TAP CLAMPING RING BOLT HOLES AND PROVIDE NEW STAINLESS STEEL BOLTS. PROVIDE NEW ALUMINUM STRAINER. SEE DETAIL 2/106. PROVIDE NEW CLAMPING RINGS WHERE DAMAGED, EXISTING OR CAUSED BY CONSTRUCTION.

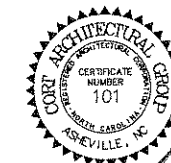
REMOVE EXISTING PITCH POCKET AND REPLACE WITH PIPE HOOD ASSEMBLY. SEE DETAIL 2/108. REMOVE, RECONNECT AND EXTEND ELECTRICAL AND MECHANICAL SERVICES AS REQUIRED.

APPROXIMATE LOCATION OF ROOF TEST CUT

GENERAL NOTE:

PME AND ARCHITECTURAL: PREP, PRIME AND PAINT ALL EXPOSED GALVANIZED AND METAL COMPONENTS TO BE RE-USED EXCEPT STAINLESS STEEL IN GOOD CONDITION.

NOTE: INFORMATION ON THIS SHEET WAS OBTAINED FROM RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, INCLUDING, BUT NOT LIMITED TO, QUANTITY AND LOCATION OF ALL EXISTING CURBS, FANS, VENTS, PIPING, CONDUIT AND ROOF DRAINS.



CORP ARCHITECTURAL GROUP, PA

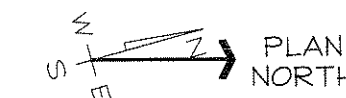
Asheville, N.C. 28801
239 Haywood Street
828.251.5100
FAX 252.8535

Project Number
1125
Date
JANUARY 31, 2012

Sheet Number

102

**BUNCOMBE COUNTY SCHOOLS
ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina**



1
102

DEMOLITION PLAN

SCALE: 1" = 20'-0"

REFER TO SHEET 103 FOR DEMOLITION WORK IN MECHANICAL ENCLOSURE.

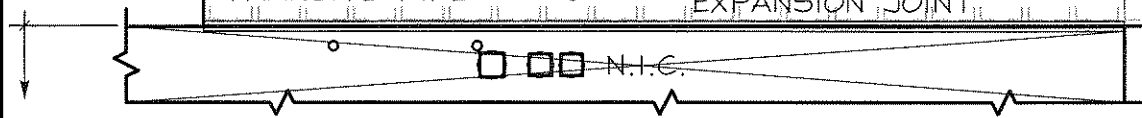
ELECTRICAL CONDUIT SUPPORTED BY PT 4x4

10" X 30" ROOF TOP COMPRESSOR ON TWO 4" X 4" P.T. WOOD

EXISTING 12" X 12" CONCRETE COLUMN

EXISTING CONCRETE PRECASTE PANELS

'B' WING
N.I.C.



9" DIA. FLUE
TRANSITE PIPE

3" VTR

EXPANSION JOINT

95'-8"

150'-8"

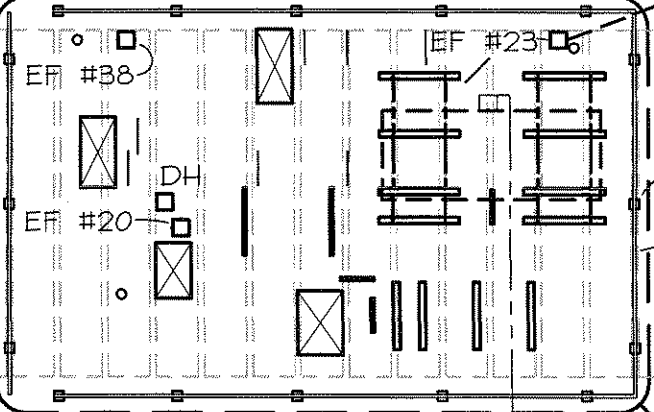
55'-0"

180'-8"

ROOF DRAIN

ROOF DRAIN

ROOF DRAIN



EF #38

EF #20

EF #23

DH

27" X 27" FAN CURB
EF #31

3" VTR

PITCH POCKET

5" DIA. FLUE

20" X 20" FAN CURB
EF #36

2" VTR

2" VTR

16" X 16" FAN CURB
EF #30

20" X 20" FAN CURB
EF #30

27" X 27" FAN CURB
EF #29

3" VTR

9" DIA. FLUE
DRYER VENT

B-1

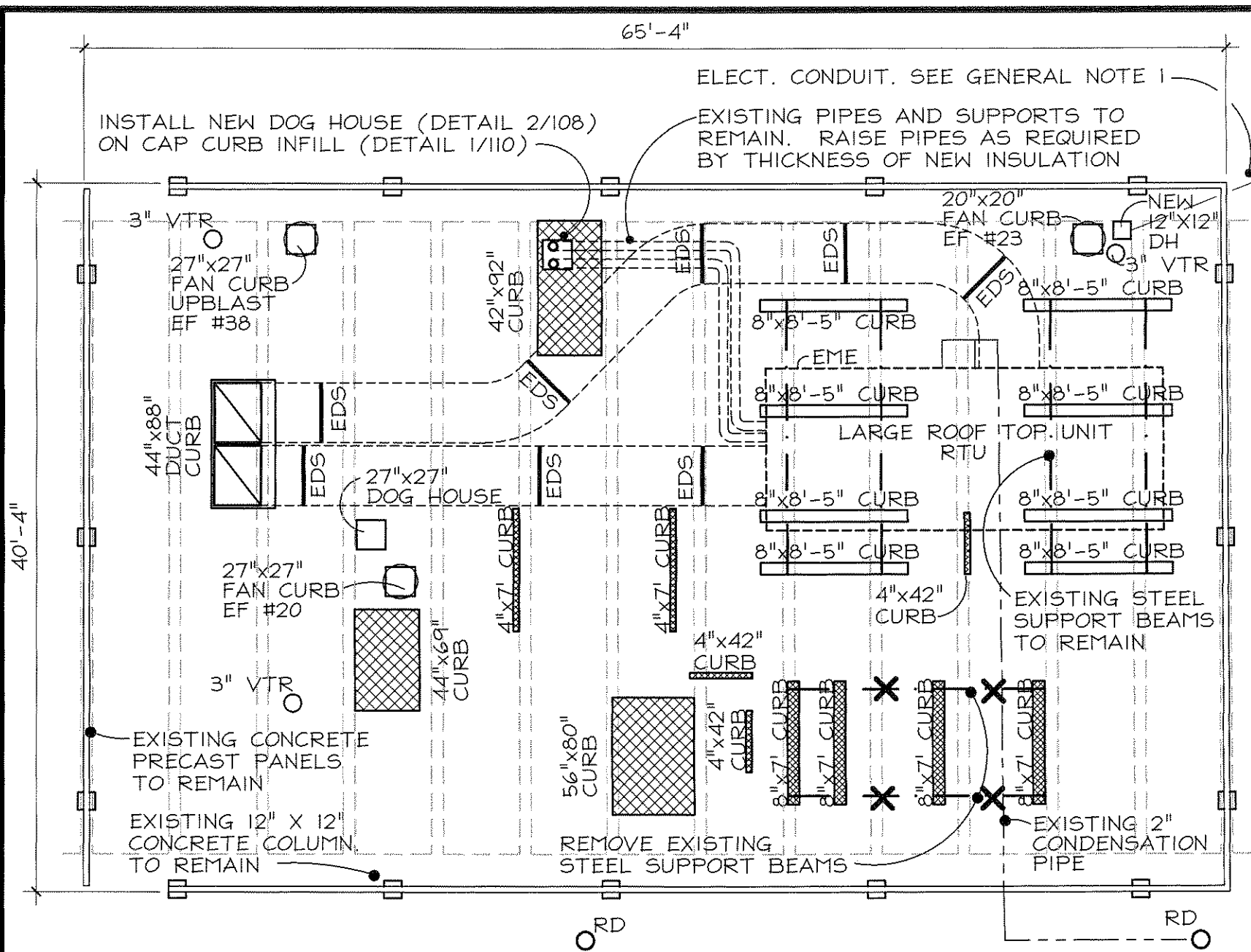
ROOF DRAIN

ROOF DRAIN







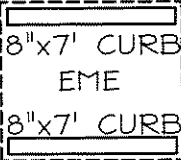



4" VTR

ROOF DRAIN

2" VTR



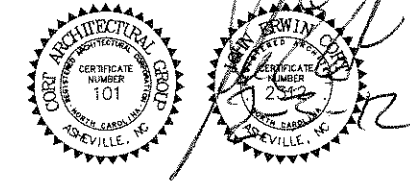
PLAN KEY

-  OUTLINE OF THE STRUCTURAL CONCRETE COLUMNS AND BEAMS LOCATED BELOW THE EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING MEMBRANE AND OTHER ROOFING SYSTEM COMPONENTS DOWN TO THE EXISTING CONCRETE DECK.
-  REMOVE EXISTING METAL COVER AND CURBS. INFILL OPENING WITH COMPOSITE DECKING AND CONCRETE. SEE DETAIL 1/110.
-  REMOVE EXISTING FAN OR VENTILATOR AND CURB. REINSTALL FAN OR VENTILATOR ON NEW CURB. REMOVE AND REPLACE OR EXTEND EXISTING MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED. SEE DETAIL 1/108, TYP.
-  VTR. EXTEND EXISTING PLBG. VENT THROUGH ROOF. SEE DETAIL 3/106.
-  RD. EXISTING ROOF DRAIN TO REMAIN. CLEAN DRAIN BODY, RE-TAP CLAMPING RING BOLT HOLES AND PROVIDE NEW STAINLESS STEEL BOLTS. PROVIDE NEW ALUMINUM STRAINER. SEE DETAIL 2/106.
-  REMOVE EXISTING CONCRETE AND METAL EQUIPMENT ROOF CURB DOWN TO ROOF DECK. SEE DETAIL 2/109.
-  ELEVATED MECHANICAL EQUIPMENT (EME) ON CONC. AND METAL CURBS AS INDICATED. RAISE EQUIPMENT AND INCREASE HEIGHT OF CURBS 12" TO ACCOMMODATE THICKNESS OF NEW TAPERED INSULATION. SEE DETAIL 1/109. RELOCATE ALL VALVES, JUNCTION BOXES AND DISCONNECTS, AND REMOVE AND REPLACE OR EXTEND EXISTING MECHANICAL AND ELECTRICAL SERVICES TO NEW ELEVATION AS REQUIRED.
-  EXISTING DUCT SUPPORT (EDS) FRAMING AND ELEVATED DUCTWORK TO BE REMOVED AND REPLACED. REMOVE EXISTING 2x WOOD SUPPORT FEET. PROVIDE NEW CURB AND ALTER SUPPORT FRAMING AS REQUIRED - SEE DETAIL 3/108. RAISE AND EXTEND DUCTWORK AS REQUIRED.
-  DUCT CURB-PROVIDE NEW CURB AND STAINLESS STEEL CURB CAP TO MATCH EXISTING ROOF OPENING AND INSULATED DUCT. SEE DETAIL 2/107.
-  DOG HOUSE (DH) REMOVE EXISTING PIPE DOG HOUSE AND REPLACE WITH NEW PIPE HOOD ASSEMBLY. SEE DETAIL 2/108. REMOVE AND REPLACE OR RECONNECT & EXTEND EXISTING ELECTRICAL AND MECHANICAL SERVICES AS REQUIRED.

103 'E' WING EQUIPMENT ENCLOSURE
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

GENERAL NOTES

1. REMOVE AND REPLACE ALL EXISTING ELECT. CONDUITS, REFRIGERANT LINES AND CONDENSATE PIPES. SUPPORT THESE ITEMS IN A MANNER APPROVED BY THE TPO MEMBRANE MANUFACTURER AND IN ACCORDANCE WITH SPECIFICATIONS AND APPLICABLE CODES. SPACING OF SUPPORTS SHALL NOT EXCEED 4'-0". RESTORE ALL DISCONNECTED EQUIPMENT TO AN OPERATIONAL CONDITION. CONFIRM EXISTING CONDITIONS FOR SURFACE MOUNTED CONDUITS AND PIPING NOT SHOWN AND RE-INSTALL IN A CODE COMPLIANT MANNER USING STAINLESS STEEL FASTENERS AND SUPPORTS.
2. EXTENT OF WORK BY LICENSED MECHANICAL CONTRACTOR:
 MECHANICAL CONTRACTOR SHALL DISCONNECT ELEVATED MECHANICAL EQUIPMENT, ROOF TOP UNITS, DUCTWORK, PIPING, CONDUITS AND ELECTRICAL SERVICES TO EQUIPMENT. GENERAL CONTRACTOR SHALL ELEVATE ALL SUCH EQUIPMENT AND SUPPORT SYSTEMS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO INSTALL NEW TEMPORARY ROOF, INSULATION SYSTEM AND NEW ROOF MEMBRANE. GENERAL CONTRACTOR SHALL PROVIDE INSULATED DUCT CURBS; DUCT SUPPORT CURBS; FAN, VENTILATION, OR CONDUIT CURBS; DOG HOUSE PIPE HOODS; CONCRETE CURBS; AND STEEL EQUIPMENT SUPPORT SYSTEMS. MECHANICAL CONTRACTOR SHALL REMOVE AND REPLACE OR EXTEND EXISTING DISCONNECTED MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED, RECONNECT EQUIPMENT, AND PLACE ALL EQUIPMENT IN OPERATION. GENERAL CONTRACTOR IS TO REMOVE THE LARGE ROOF TOP UNIT FROM THE ROOF AND STORE IT IN THE STAGING AREA WHILE THE CONCRETE CURBS ARE BEING RAISED. MEANS AND METHODS FOR LIFTING IS THE CONTRACTOR'S RESPONSIBILITY.



BUNCOMBE COUNTY SCHOOLS
ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
 Asheville, North Carolina

CORI ARCHITECTURAL GROUP, P.A.
 Asheville, N.C. 28601
 239 Haywood Street
 828.251.5100
 FAX 252.8535

Project Number: 1125
 Date: JANUARY 31, 2012

Sheet Number: **103**

CLASSROOM ADDITION N.I.C.

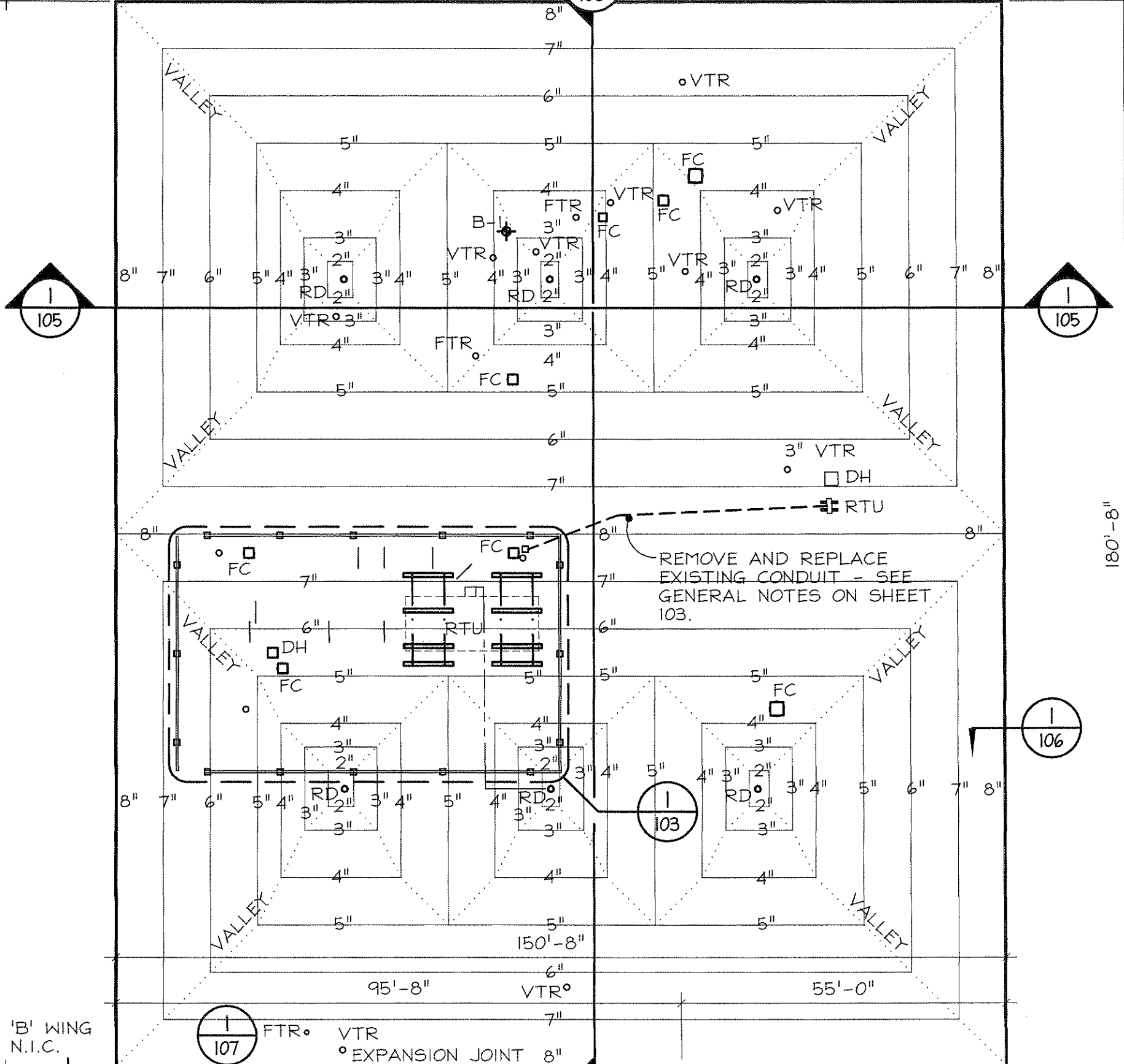


2
105

'E' WING

PLAN KEY

- 5" FULLY ADHERED FELTBACKED TPO SINGLE-PLY ROOFING MEMBRANE ON LEVEL STRUCTURE.
- 4" NUMBERS INDICATE TOTAL THICKNESS OF INSULATION AND GYPSUM COVER BOARD ABOVE ROOF DECK. TAPERED INSULATION MINIMUM SLOPE 1/8" PER FOOT
- 3" 2"
- 1" 1"
- B-1 APPROXIMATE LOCATION OF ROOF TEST CUT
- FC EXISTING FAN OR VENTILATOR ON NEW EQUIPMENT CURB. SEE DETAIL 1/108.
- TAPERED INSUL. CRICKET
- DH NEW PIPING DOG HOUSE REPLACING EXISTING PITCH POCKET. SEE DETAIL 2/108.
- RD EXISTING ROOF DRAIN TO REMAIN SEE DETAIL 2/106.
- RTU EXISTING ROOF TOP MECHANICAL UNIT ON NEW MOUNTING CURBS SIMILAR TO DETAIL 3/108.
- VTR EXTEND PLUMBING VENT THROUGH ROOF. SEE DETAIL 3/106.
- FTR EXTEND METAL FLUE PIPE THROUGH ROOF. SEE SIMILAR DETAIL 3/106.



NOTES:

1. SEE EQUIPMENT ENCLOSURE DETAIL PLAN FOR ADDITIONAL WORK.
2. ALL ROOFING MEMBRANE AND INSULATION ASSEMBLIES SHALL BE U.L. CLASS "A" COMPLYING WITH FM-4450 OR UL-1256
3. POLYISOCYANURATE ROOF INSULATION TO HAVE A LTTR R-VALUE OF 5.6 PER INCH.

GENERAL NOTE:

ALL AREAS MUST HAVE POSITIVE DRAINAGE.

'B' WING N.I.C.

1
107

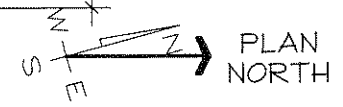
FTR VTR EXPANSION JOINT 8"

2
105

1
104

ROOF PLAN

SCALE: 1" = 20'-0"



[Handwritten Signature]
CORI ARCHITECTURAL GROUP, PA
ASHEVILLE, NC

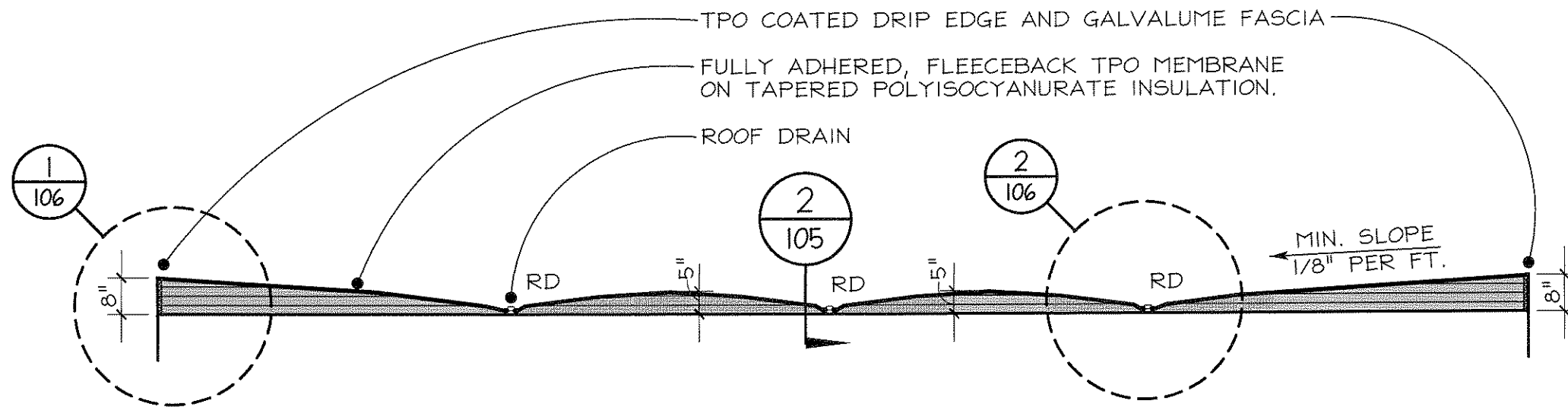
CORI ARCHITECTURAL GROUP, PA

BUNCOMBE COUNTY SCHOOLS
ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina

Project Number 1125
Date JANUARY 31, 2012
Asheville, N.C. 28801
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Sheet Number

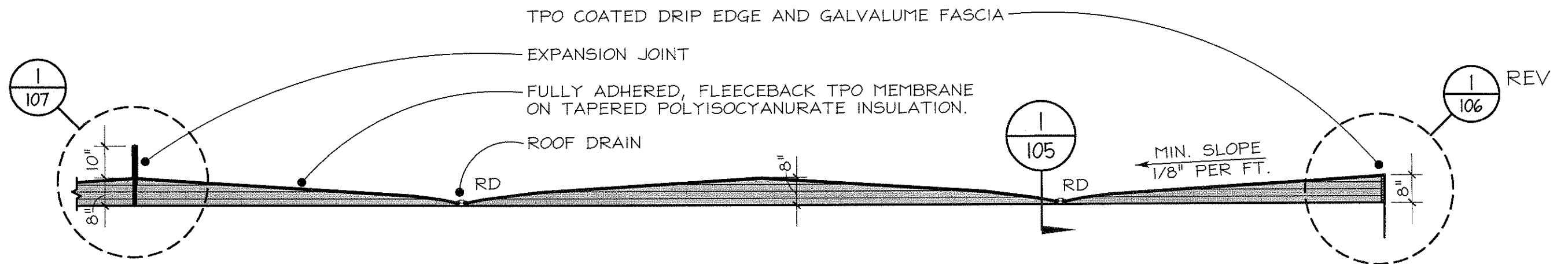
104



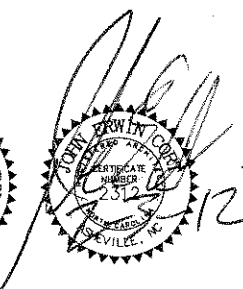
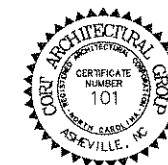
1 ROOF INSULATION SECTION
 105 SCALE: 1/16" = 1'-0" (HORIZONTAL)
 3/8" = 1'-0" (VERTICAL)

NOTE:
 POSITIVE DRAINAGE REQUIRED.

MINIMUM INSULATION THICKNESS (BASE LAYER)
 AT ROOF DRAIN IS ONE INCH.



2 ROOF INSULATION SECTION
 105 SCALE: 1/16" = 1'-0" (HORIZONTAL)
 3/8" = 1'-0" (VERTICAL)



CORRY ARCHITECTURAL GROUP, PA

BUNCOMBE COUNTY SCHOOLS
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105

TPO REINFORCED STRIPPING HEAT WELDED TO MEMBRANE AND DRIP EDGE FLANGE. PROVIDE EDGE SEALANT AS REQUIRED BY ROOFING MANUFACTURER

TPO COATED METAL DRIP EDGE W/ CONTINUOUS CLEAT BY ROOFING MFR, FABRICATED AND SECURED TO MEET REQUIREMENTS OF ANSI/SPRI ES-1. SECURE CLEAT THROUGH SLOTTED HOLES IN TOP EDGE OF ALUMINUM FASCIA.

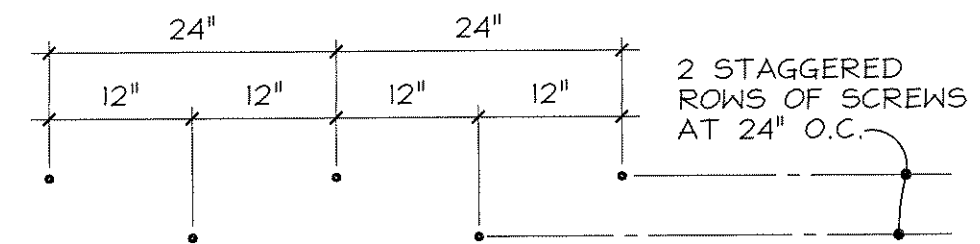
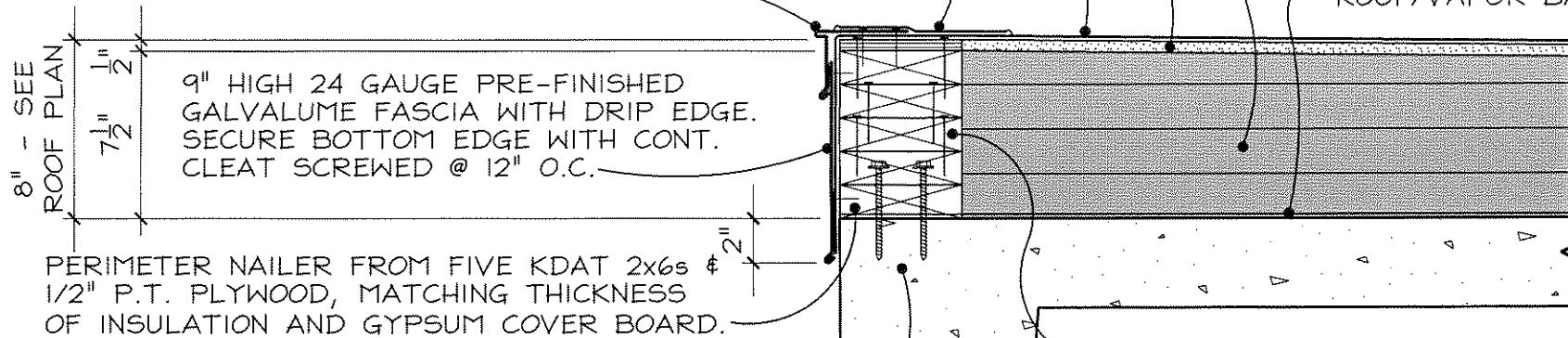
FULLY ADHERED TPO FLEECE BACK SINGLE-PLY ROOFING MEMBRANE TURNED DOWN TO BOTTOM EDGE OF NAILERS

FULLY ADHERED 1/2" DENSDECK PRIME, OR EQUAL, GYPSUM UNDERLAYMENT

1/8" PER FOOT (MIN.) TAPERED INSULATION, FULLY ADHERED BETWEEN LAYERS AND TO BASE SHEET WITH 6" MINIMUM BEADS.

FULLY ADHERE MODIFIED BITUMEN BASE SHEET/TEMPORARY ROOF/VAPOR BARRIER EXTENDED TO EDGE OF CONCRETE

POSITIVE DRAINAGE REQUIRED.



SCREW PATTERN FOR SECURING WOOD NAILERS

SECURE FIRST TWO P.T. 2x6s WITH TWO STAGGARED ROWS OF 1/4"φ x 4" LONG STAINLESS STEEL MASONRY SCREWS EMBEDDED 1 3/4" INTO CONCRETE, EACH ROW AT 24" O.C.

SECURE EACH OF THE TOP THREE 2X6s WITH TWO STAGGERED ROWS OF No. 10 S. S. SCREWS WITH PANCAKE HEAD OR 5/8" WASHER, EACH ROW @ 24" O.C. AT 8'-0" FROM INSIDE & OUTSIDE CORNERS SPACING MUST BE 12" O.C. TO PROVIDE 6" SPACING PER FM 1-49.

ALL CUT EDGES OF REINFORCED MEMBRANE SHALL BE STRIPPED WITH 4" MIN. HEAT WELDED UNREINFORCED FLASHING MEMBRANE.

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

SHOULD ALTERNATE FOR CELLULAR CONCRETE INSULATION SYSTEM BE ACCEPTED, PROVIDE ROOF DRAIN SUMP 8' X 8' FORMED OF TAPERED POLYISOCYANURATE INSULATION AT EACH ROOF DRAIN. TRANSITION FROM 2 INCH CELLULAR CONCRETE INSULATION TO LIP OF CAST IRON ROOF DRAIN BODY WITH A CONSTANT SLOPE.

EXISTING ROOF DRAIN TO REMAIN. CLEAN DRAIN BODY, RE-TAP CLAMPING RING BOLT HOLES AND PROVIDE NEW STN. STL. BOLTS. PROVIDE NEW CLAMPING RING WHERE DAMAGED. PROVIDE NEW CAST ALUMINUM STRAINER.

EXISTING CLAMPING RING

NO FLEECE UNDER CLAMPING RING.

ADHERED THERMOPLASTIC MEMBRANE ROOFING. TURN MEMBRANE INTO DRAIN AND SET IN WATER CUT-OFF MASTIC

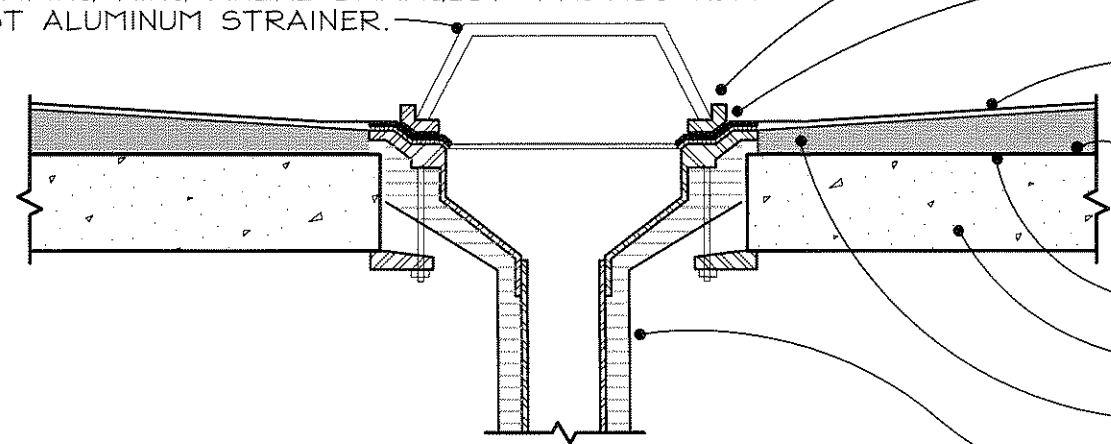
TAPERED POLYISOCYANURATE INSULATION.

VAPOR BARRIER/TEMPORARY ROOF

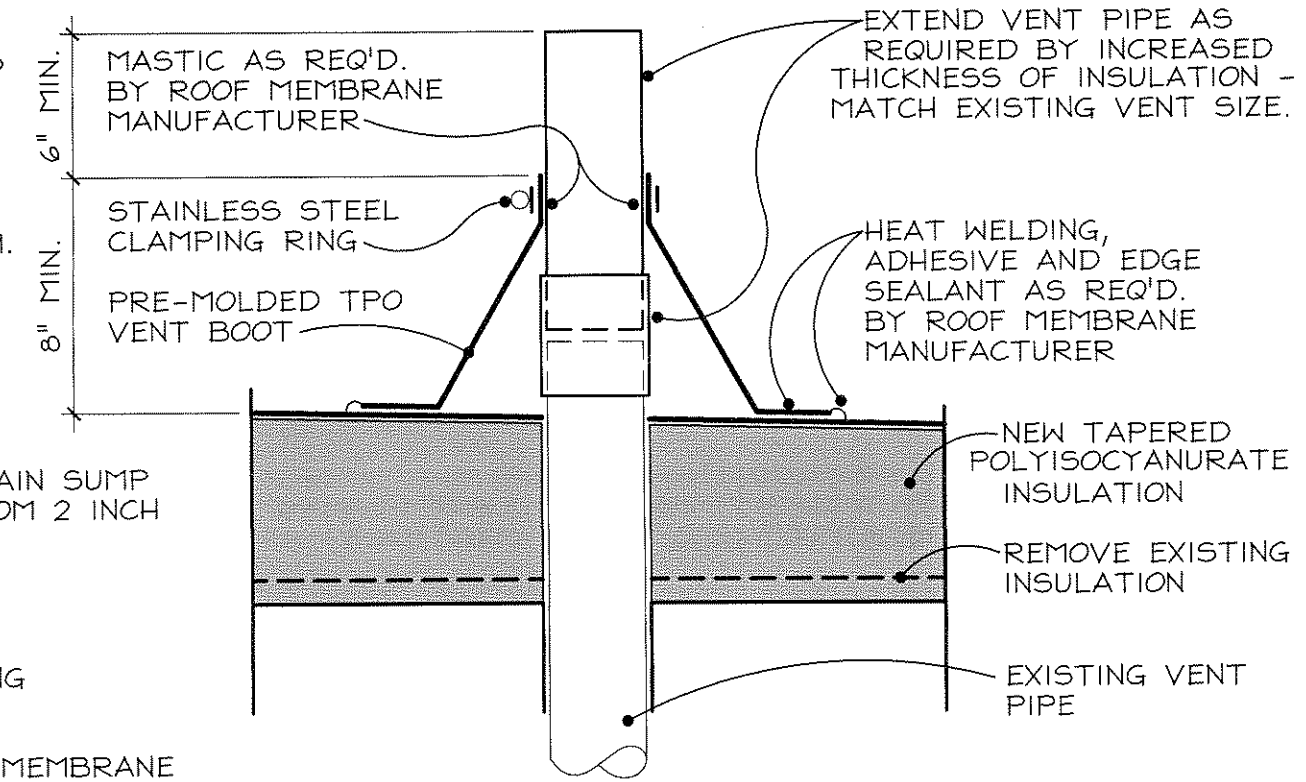
EXISTING CONCRETE ROOF DECK

MINIMUM INSULATION THICKNESS (BASE LAYER) AT ROOF DRAIN IS ONE INCH THICK.

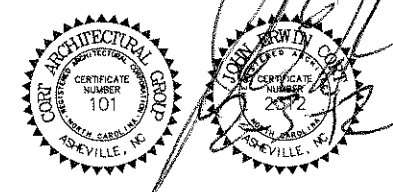
EXISTING DRAIN BODY, PIPING AND INSULATION TO REMAIN



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



3 VENT THROUGH ROOF SCALE: 1/2" = 1'-0"

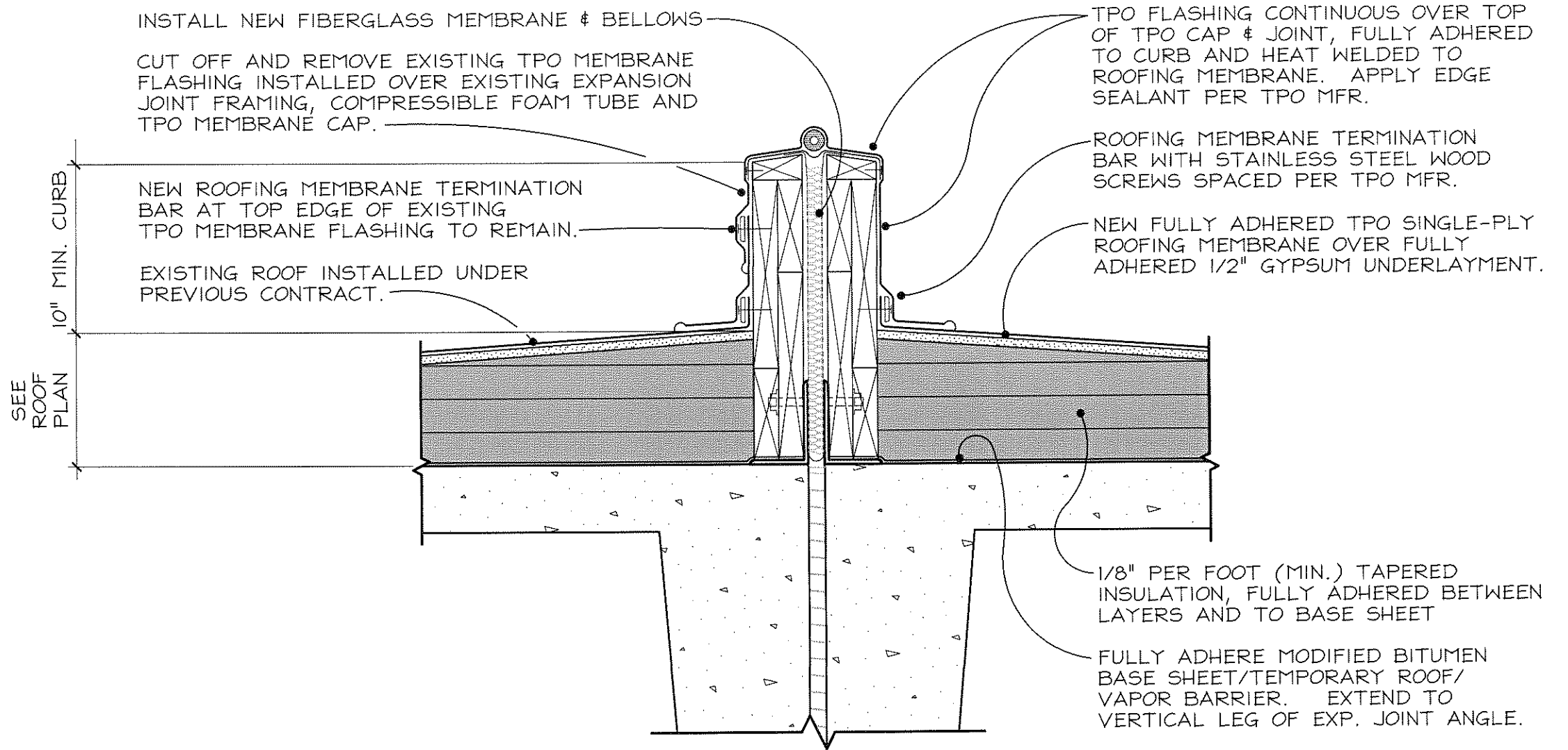


BUNCOMBE COUNTY SCHOOLS
ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina

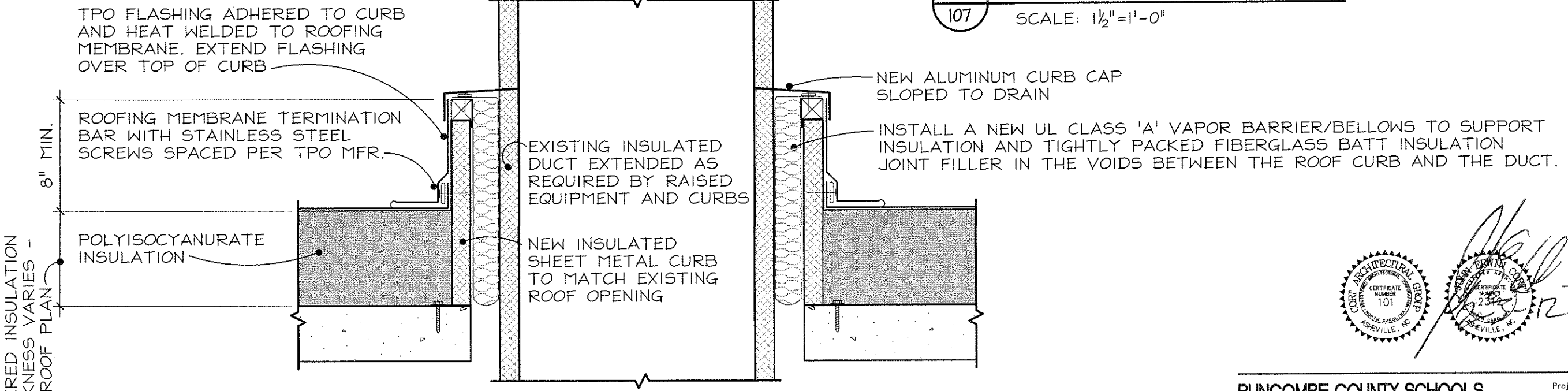
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828.251.5100
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Sheet Number 106

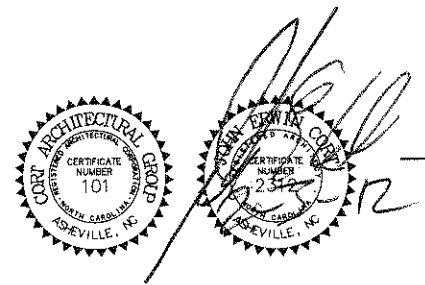


1 EXPANSION JOINT
SCALE: 1/2" = 1'-0"



TAPERED INSULATION - THICKNESS VARIES - SEE ROOF PLAN

2 DUCT CURB
SCALE: 1/2" = 1'-0"



BUNCOMBE COUNTY SCHOOLS
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Date JANUARY 31, 2012

Sheet Number 107

REMOVE AND REINSTALL EXISTING ROOF TOP FAN ON NEW CURB, AND REPLACE OR EXTEND ELECTRICAL SERVICE AS REQUIRED.

TPO FLASHING ADHERED TO CURB AND HEAT WELDED TO ROOFING MEMBRANE. EXTEND FLASHING OVER TOP OF CURB

REMOVE AND REINSTALL EXISTING CONDUITS & REFRIGERANT PIPING EXTEND SERVICES TO NEW LOCATIONS AS REQUIRED

PIPE CURB ASSEMBLY INCLUDING CURB CAP, PVC PIPE BOOTS & S.S. PIPE CLAMPS, PATE OR EQUAL

ROOFING MEMBRANE TERMINATION BAR WITH SHEEL METAL SCREWS SPACED PER TPO MFR.

NEW INSULATED SHEET METAL PIPE CURB

POLYISOCYANURATE INSULATION

TAPERED INSULATION THICKNESS VARIES - SEE ROOF PLAN

8" MIN.

FAN CURB / VENTILATOR CURB / CONDUIT CURB

108 SCALE: 1/2" = 1'-0"

TPO FLASHING ADHERED TO CURB AND HEAT WELDED TO ROOFING MEMBRANE. EXTEND FLASHING OVER TOP OF CURB

ALUMINUM PIPE HOOD ASSEMBLY EQUAL TO PATE

FIELD INSTALL CONTINUOUS INTERIOR INSULATION AND CAULK PERIMETER OF PIPE AND CONDUIT PENETRATIONS.

ROOFING MEMBRANE TERMINATION BAR WITH STAINLESS STEEL SCREWS SPACED PER TPO MFR.

REMOVE AND REPLACE EXISTING CONDUITS & REFRIGERANT PIPING & INSULATION. EXTEND SERVICES TO NEW LOCATIONS AS REQUIRED.

POLYISOCYANURATE INSULATION

NEW INSULATED SHEET METAL CURB

REMOVE EXISTING PITCH POCKET

TAPERED INSULATION THICKNESS VARIES - SEE ROOF PLAN

8" MIN.

DOG HOUSE/PIPE HOOD ASSEMBLY

108 SCALE: 1/2" = 1'-0"

EXISTING SHEET METAL DUCT MAY BE REUSED.

PROVIDE NEW STEEL SUPPORT LEGS AS REQUIRED, DESIGNED TO WITHSTAND SEISMIC AND WIND LOADS.

COUNTERFLASHING INTEGRAL WITH EQUIPMENT CURB

NEW INSULATED SHEET METAL EQUIP. CURBS

TPO FLASHING, FULLY ADHERED TO CURB AND HEAT WELDED TO ROOFING MEMBRANE. APPLY EDGE SEALANT PER TPO MFR.

ROOFING MEMBRANE TERMINATION BAR WITH SHEET METAL SCREWS SPACED PER TPO MFR.

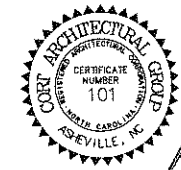
1/4"x1/4" MASONRY SCREWS @ 8" O.C. MINIMUM. SPACING DESIGNED TO WITHSTAND SEISMIC AND WIND LOADS.

8" MIN.

DUCT SUPPORT CURB

108 SCALE: 1/2" = 1'-0"

TYPICAL NOTE:
ATTACHMENTS OF INSULATED SHEET METAL CURBS SHOWN ARE MINIMUM. PROVIDE CALCULATIONS FROM SEISMIC AND WIND RESTRAINT ENGINEER (SPECIFICATION SECTION 230548) TO WITHSTAND REQUIRED SEISMIC AND WIND LOAD CONDITIONS.



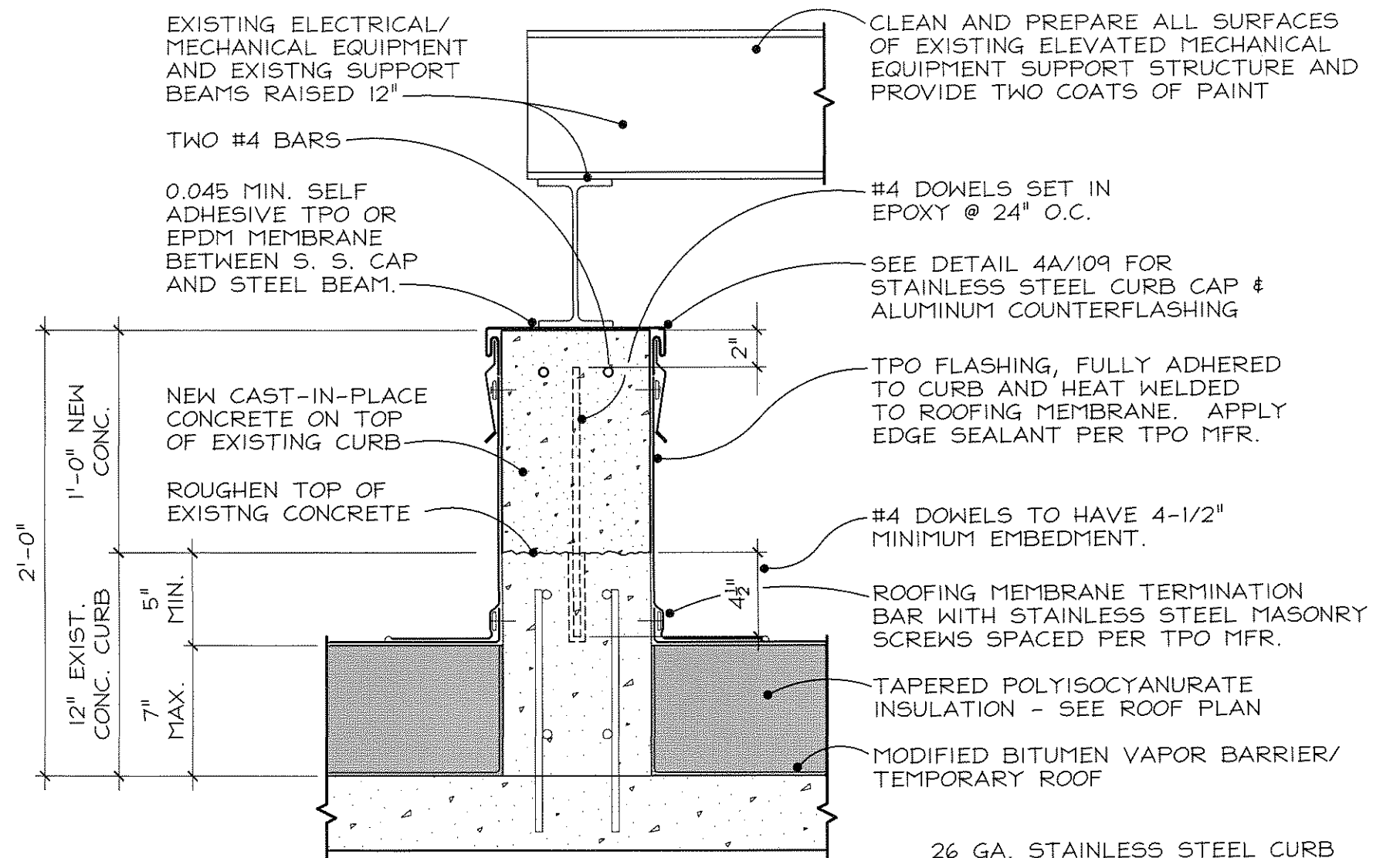
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CORI ARCHITECTURAL GROUP, PA
CERTIFICATE NUMBER 2312
ASHEVILLE, NC

CORI ARCHITECTURAL GROUP, PA

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ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina

Project Number 1125
Date JANUARY 31, 2012
Asheville, N.C. 28801
239 Haywood Street
828.251.5100
FAX 252.8535

Sheet Number
108



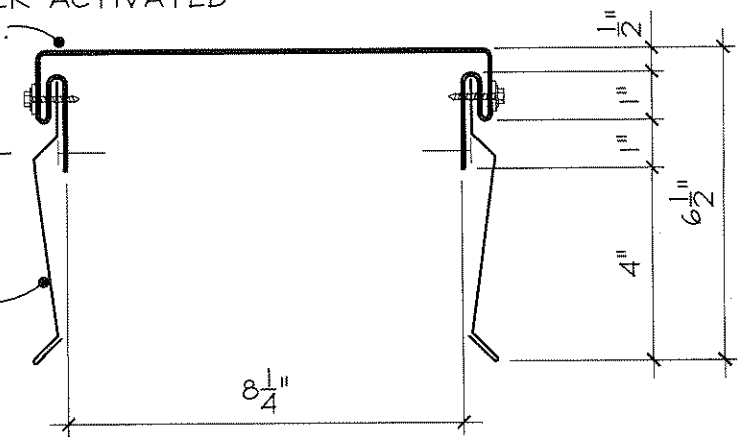
CONCRETE CURB TO REMAIN

1
109 SCALE: 1/2" = 1'-0"

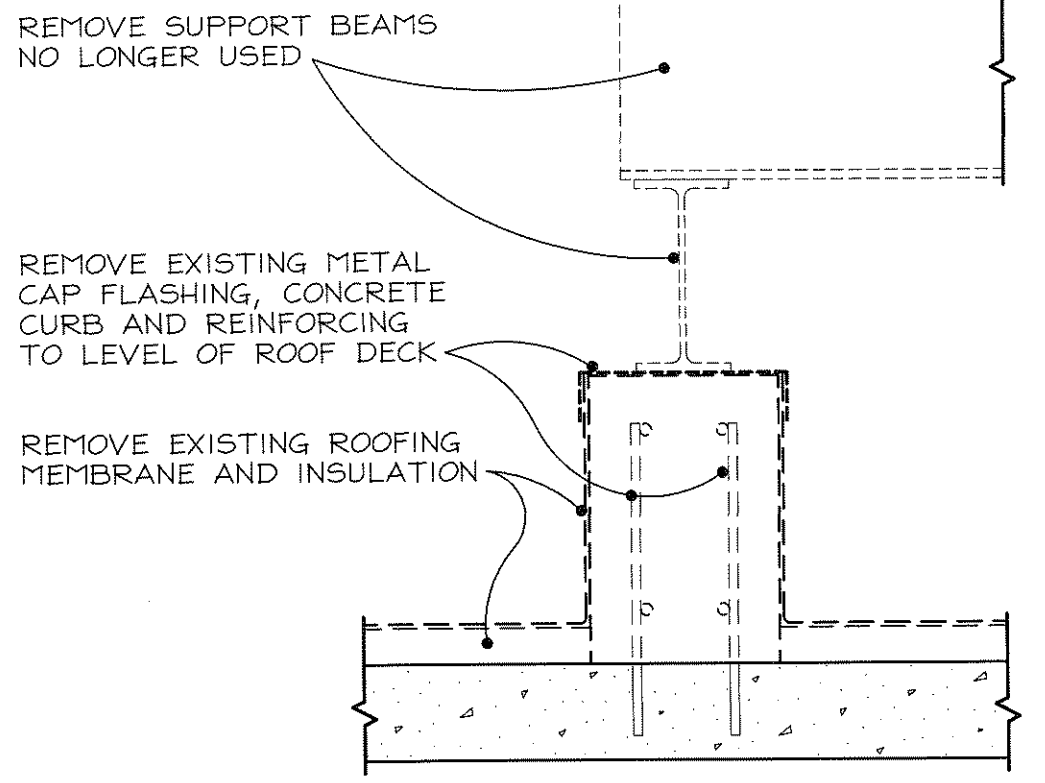
CONCRETE MATERIAL MAY BE JOB MIXED OR PLANT MIXED AT CONTRACTOR'S OPTION. FORMS SHALL REMAIN IN PLACE AND NO LOADS PLACED ON NEWLY CAST CONCRETE FOR A MINIMUM OF SEVEN DAYS AND UNTIL CONCRETE HAS ACHIEVED A COMPRESSIVE STRENGTH OF 3,000 PSI AS DETERMINED BY A TESTING LABORATORY EMPLOYED BY THE CONTRACTOR. TESTING LABORATORY SHALL PROVIDE RESULTS OF TESTING TO THE OWNER AND THE ARCHITECT.

26 GA. STAINLESS STEEL CURB CAP / FLASHING RECEIVER SECURED TO CURB WITH POWDER ACTIVATED FASTENERS @ 24" O.C.

0.40" ALUM. COUNTER-FLASHING SECURED TO RECEIVER WITH S.S. SHEET METAL SCREWS & NEOPRENE WASHERS @ 12" O.C.

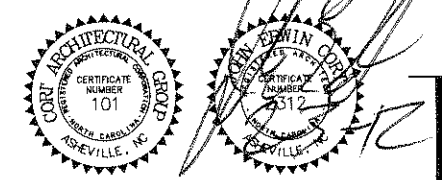


1A
109 CURB CAP SCALE: 3" = 1'-0"



CONCRETE CURB TO BE REMOVED

2
109 SCALE: 1/2" = 1'-0"

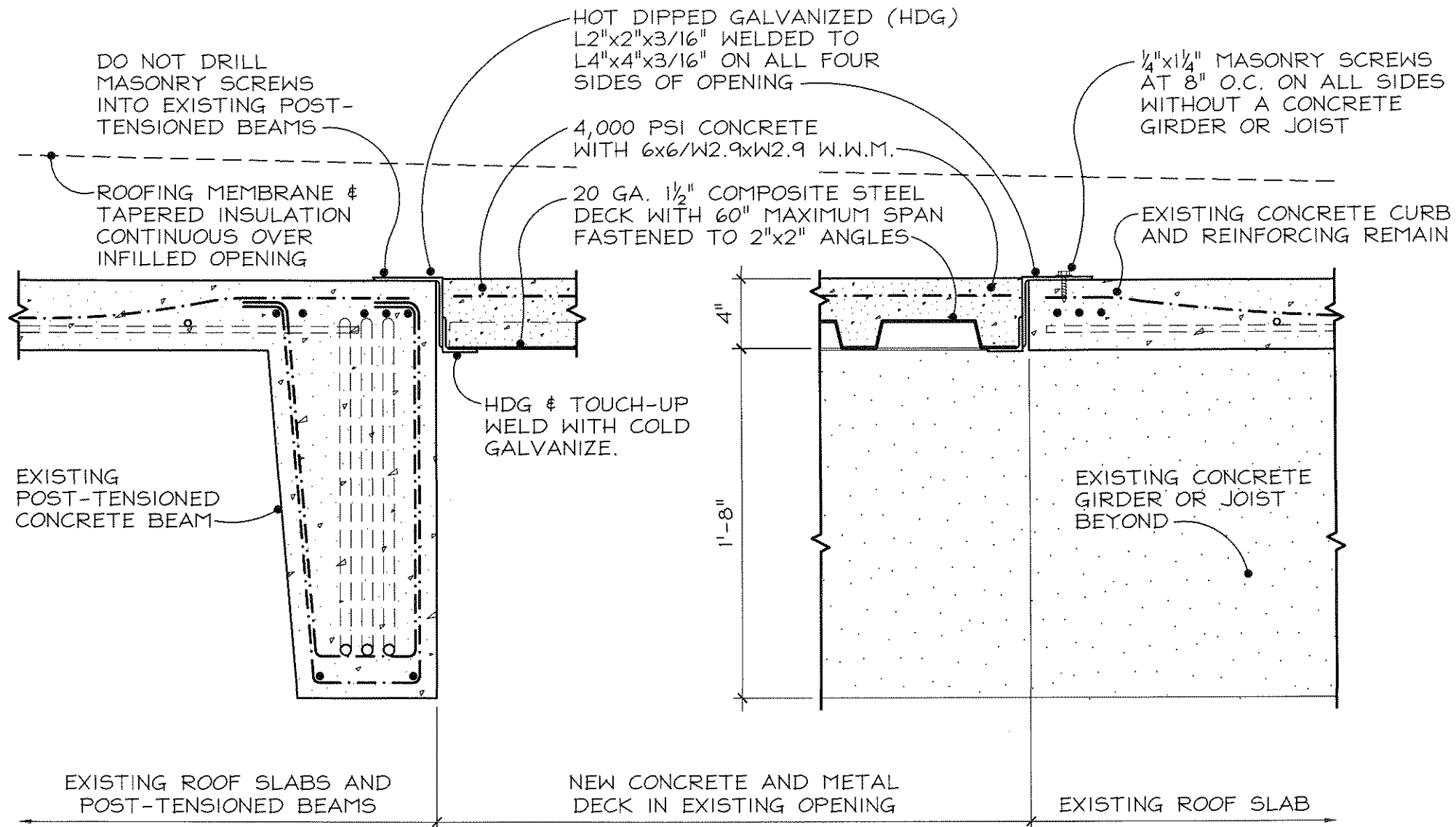


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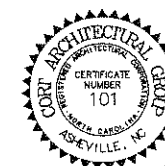
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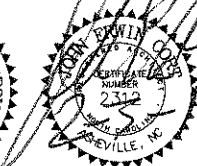
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1
110 CAP CURB INFILL
SCALE: 1/2" = 1'-0"



[Handwritten Signature]



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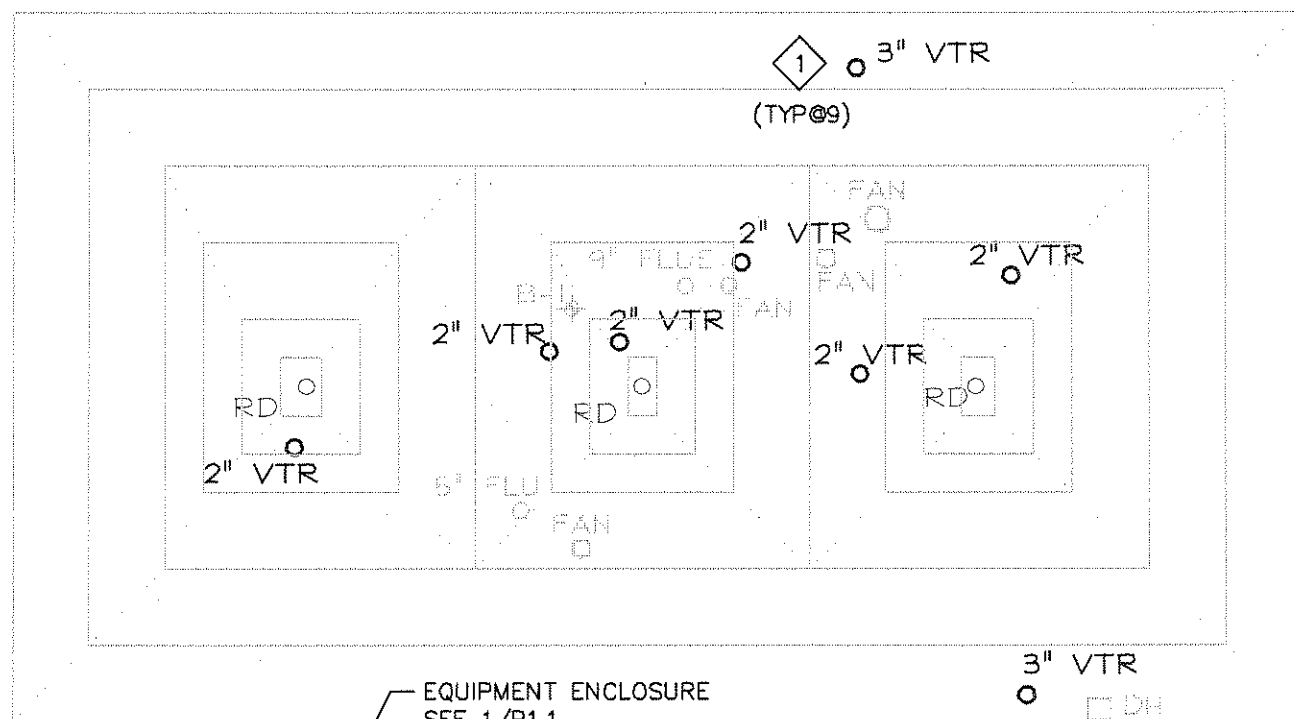
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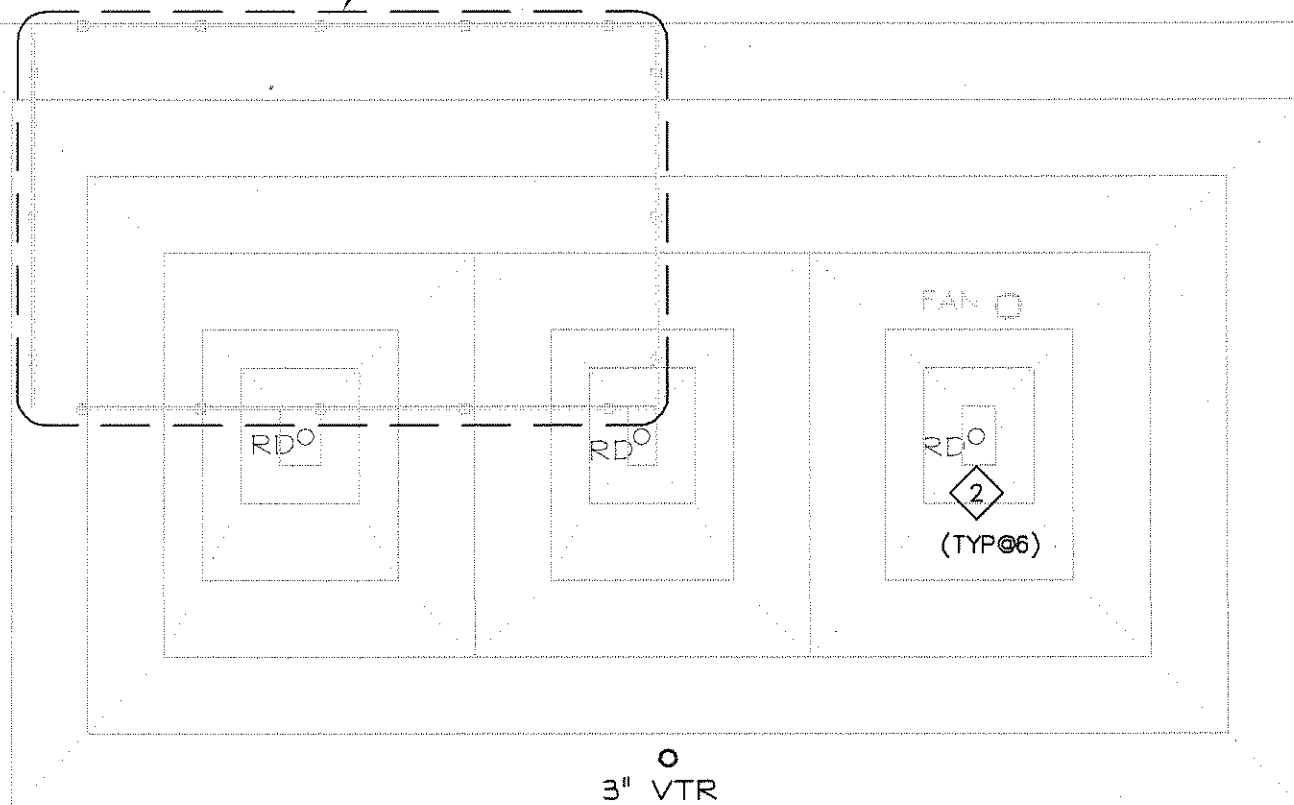
110

CLASSROOM ADDITION N.I.C.

N.I.C.



EQUIPMENT ENCLOSURE SEE 1/P1.1



'B' WING N.I.C.

3" VTR

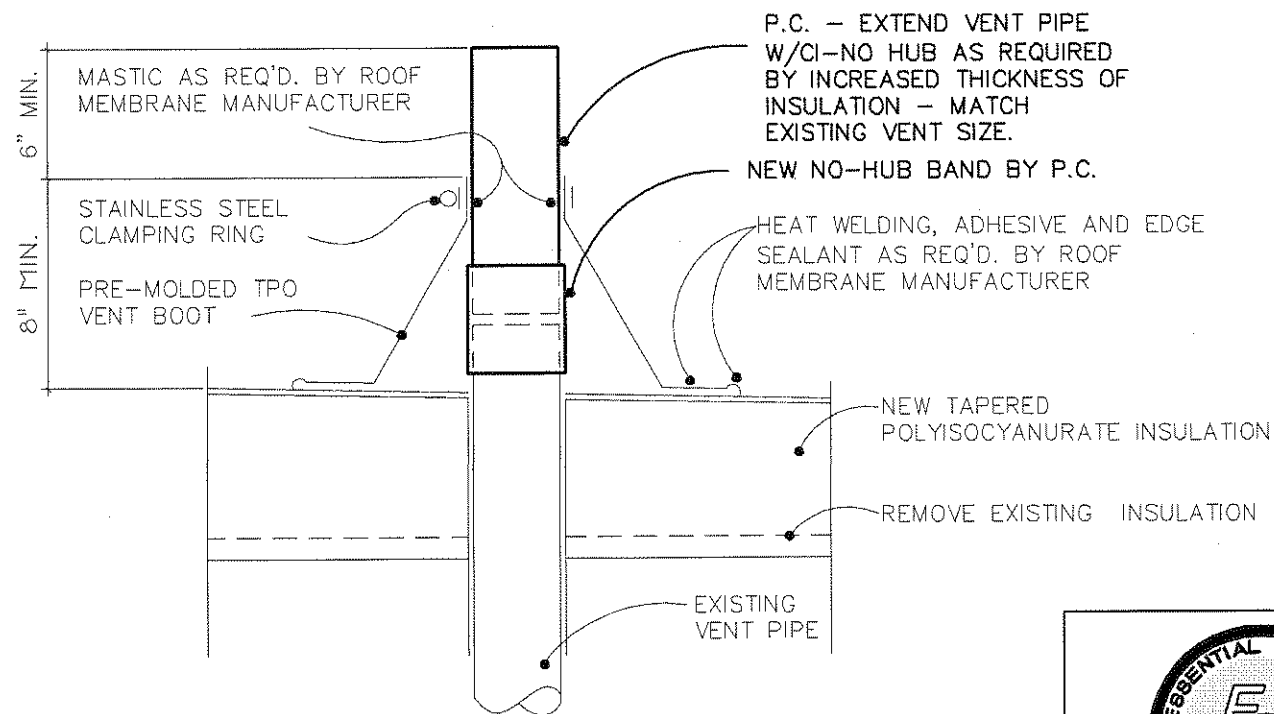
1
P1.0 **ROOF PLAN - PLUMBING**
SCALE: 1"=20'

N.I.C.

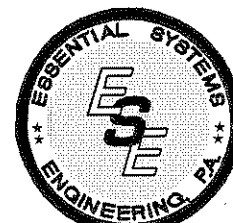
NO WORK IN AREA INDICATED AS "NOT IN CONTRACT" STOCK PILING MATERIALS AND FOOT TRAFFIC SHALL NOT BE PERMITTED IN N.I.C. AREAS.

WORK NOTES:

- 1 EXTEND EXISTING VENT THROUGH ROOF. SEE DETAIL 2/P1.0. (TYP@9)
- 2 EXISTING ROOF DRAIN TO REMAIN AND REWORKED BY G.C. NO WORK BY P.C. ON ROOF DRAINS. (TYP@6)



2
P1.0 **VENT THRU ROOF DETAIL**
NO SCALE

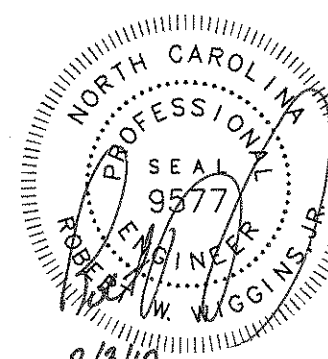


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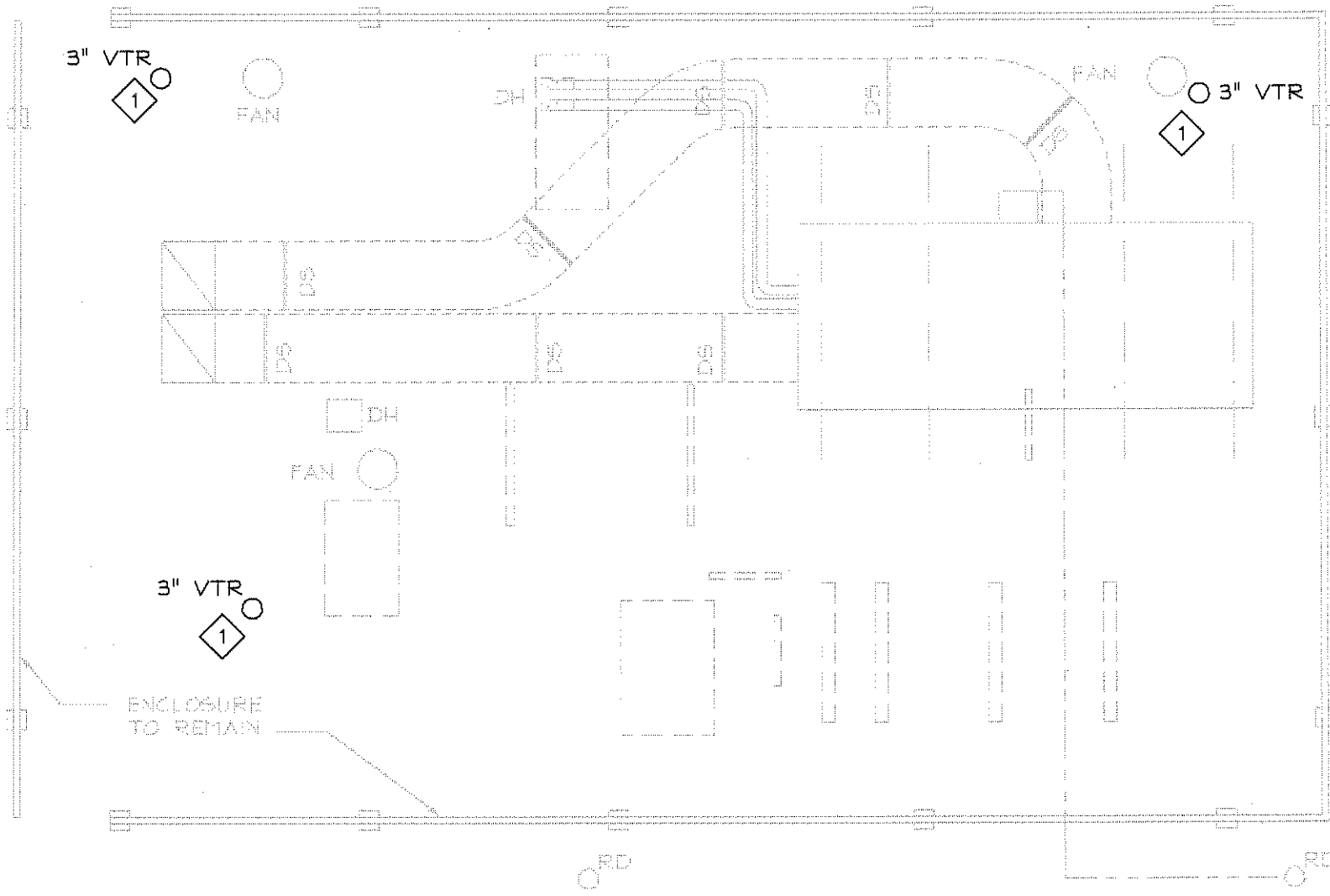
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P1.0

WORK NOTES:

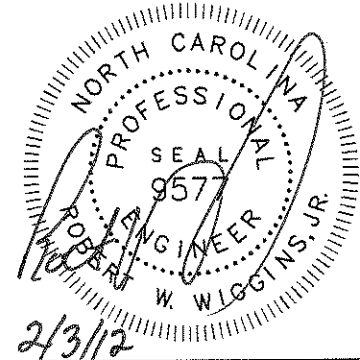
- 1 EXTEND EXISTING VENT THROUGH ROOF. SEE DETAIL 2/P1.0.



1
P1.1

EQUIPMENT ENCLOSURE DETAIL - PLUMBING - NEW WORK

SCALE: 1/8"=1'-0"
0 8 16



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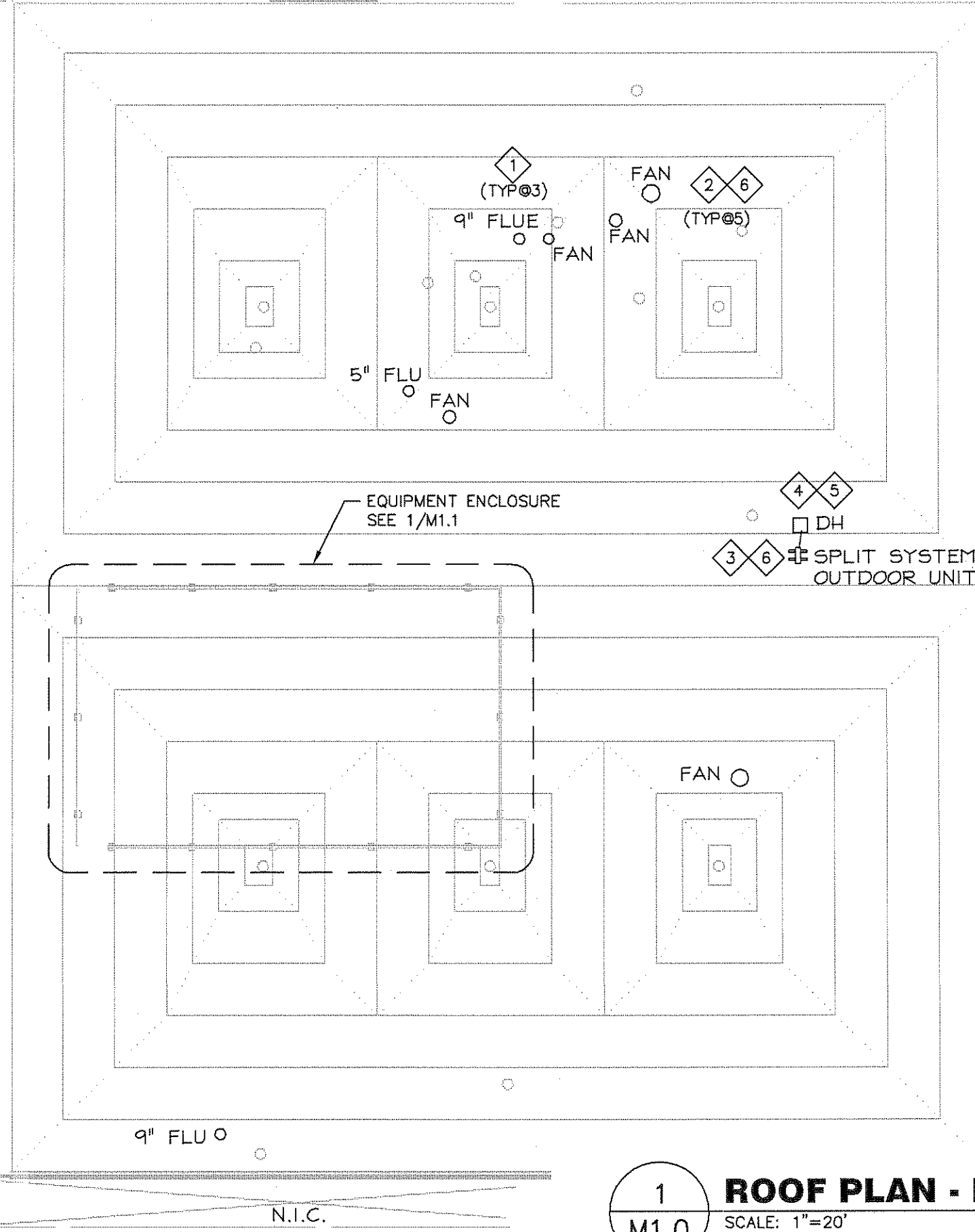
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Date JANUARY 31, 2012

Sheet Number **P1.1**

CLASSROOM ADDITION N.I.C.



NO WORK IN AREA INDICATED AS "NOT IN CONTRACT"
STOCK PILING MATERIALS AND FOOT TRAFFIC SHALL NOT BE
PERMITTED IN N.I.C. AREAS. SEE ARCHITECTURAL SHEETS.



'B' WING
N.I.C.

N.I.C.

1
M1.0

ROOF PLAN - MECHANICAL

SCALE: 1"=20'

WORK NOTES:

- 1 EXTEND EXISTING FLUES THROUGH ROOF. (TYP@3)
- 2 REMOVE EXISTING FANS AND RESTORE TO NEW CURBS (BY G.C). EXTEND ALL CONNECTIONS AND SERVICES AS REQUIRED. RESTORE TO OPERATIONAL CONDITION. (TYP@5)
- 3 REMOVE OUTDOOR UNIT AND RESTORE TO NEW SUPPORTS (BY G.C.) E.C. TO REPLACE CONDUIT AND REWIRE.
- 4 EXISTING PITCH POCKET TO BE REMOVED BY G.C. AND REPLACED BY G.C. W/DOGHOUSE - SEE DETAIL 2/108. REMOVE AND RESTORE ANY REFRIGERANT PIPING NECESSARY.
- 5 EVACUATE REFRIGERANT FROM SYSTEM AND RESTORE AFTER REINSTALLATION.
- 6
 - VERIFY AND DOCUMENT ALL CONTROL SEQUENCES PRIOR TO DISCONNECTING EQUIPMENT. RESTORE AS EXISTING CONTROL SEQUENCES AFTER REINSTALLATION OF EQUIPMENT.
 - WHERE NECESSARY TO EXTEND COMMUNICATION WIRE, PROVIDE PROTECTION BOARD IN WEATHERPROOF ENCLOSURE AT LOCATION OF EXISTING CONNECTION AND EXTEND TO NEW LOCATION OF CONNECTION WITH WIRE MATCHING EXISTING.
 - WHERE NECESSARY TO EXTEND SIGNAL OR SENSOR WIRE, PROVIDE TERMINAL STRIP IN WEATHERPROOF ENCLOSURE AT LOCATION OF EXISTING CONNECTION AND EXTEND TO NEW LOCATION OF CONNECTION WITH WIRE MATCHING EXISTING.
 - ALL CONTROL WORK IS TO BE PERFORMED BY A QUALIFIED CONTROLS SUBCONTRACTOR AUTHORIZED BY MANUFACTURER OF DDC CONTROL SYSTEM WHICH CONTROLS DOAS-5 (AUTOMATED LOGIC CORP (ALC)) AND COORDINATED WITH ALC TO ASSURE CONTINUITY OF WARRANTIES AND SYSTEM FUNCTION.

GENERAL NOTES:

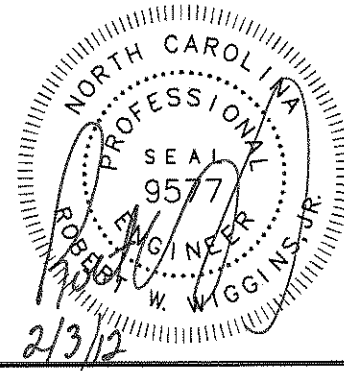
1. ALL MECHANICAL COMPONENTS ARE TO BE REMOVED FROM THE ROOF, PROTECTED AND STORED (WHEN PERMITTED TO BE REUSED), THEN RETURNED TO THE ROOF AND REINSTALLED AFTER ROOFING IS COMPLETE.
2. WSR, WSS AND CONDENSATE PIPING MATERIALS MAY BE REUSED. UNDER BASE BID DUCTWORK MATERIALS MAY BE REUSED. UNDER ALT. #2. ALL DUCTWORK ON ROOF SHALL BE NEW. EQUIPMENT SHALL BE REUSED. ALL OTHER COMPONENTS, INCLUDING INSULATION, INSULATING JACKETS AND SUPPORTS SHALL BE NEW.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORING AND REINSTALLING ALL REUSED MATERIALS TO PRODUCE A LIKE NEW INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORING AND REINSTALLING ALL EQUIPMENT TO PRODUCE AN AS EXISTING INSTALLATION.
4. ALL PIPE AND DUCT IS TO BE INSTALLED ON CURBS. CURBS ARE BY G.C.
5. DOCUMENT AS EXISTING AIR FLOW RATES IN AND OUT OF DOAS-5 PRIOR TO WORK AND DOCUMENT RESTORATION OF SAME AT END OF PROJECT. DOCUMENT AS EXISTING WATER FLOW RATE TO DOAS-5 PRIOR TO WORK AND DOCUMENT RESTORATION OF SAME AT END OF PROJECT. NO OTHER TEST AND BALANCE IS REQUIRED FOR THIS PROJECT. ALL TEST AND BALANCE WORK IS TO BE DONE BY AN AABC OR NEBB CERTIFIED TEST AND BALANCE ENGINEER.
6. NO CHEMICAL TREATMENT OF WATER SOURCE SUPPLY & RETURN SYSTEMS IS REQUIRED FOR THIS PROJECT.



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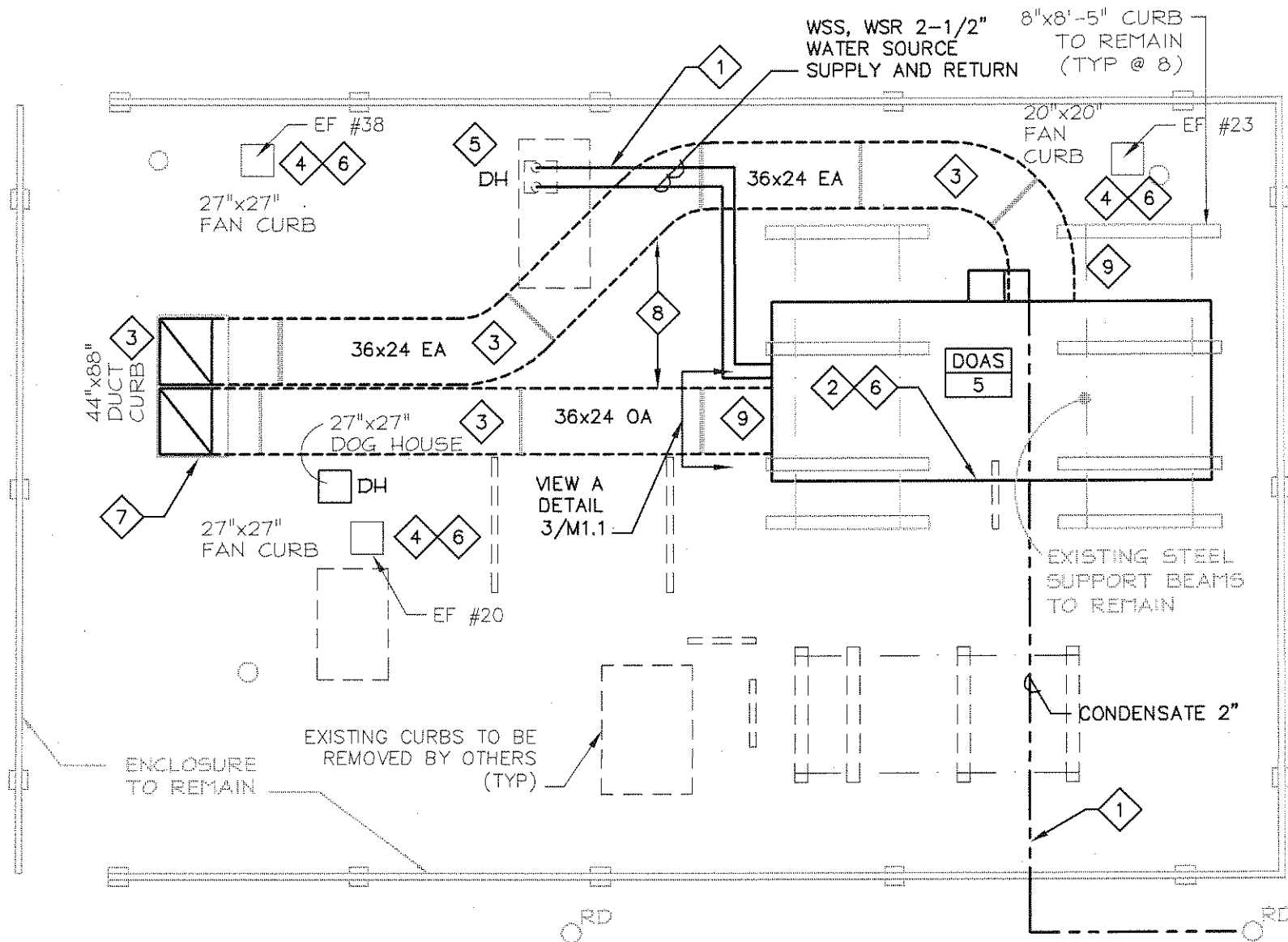


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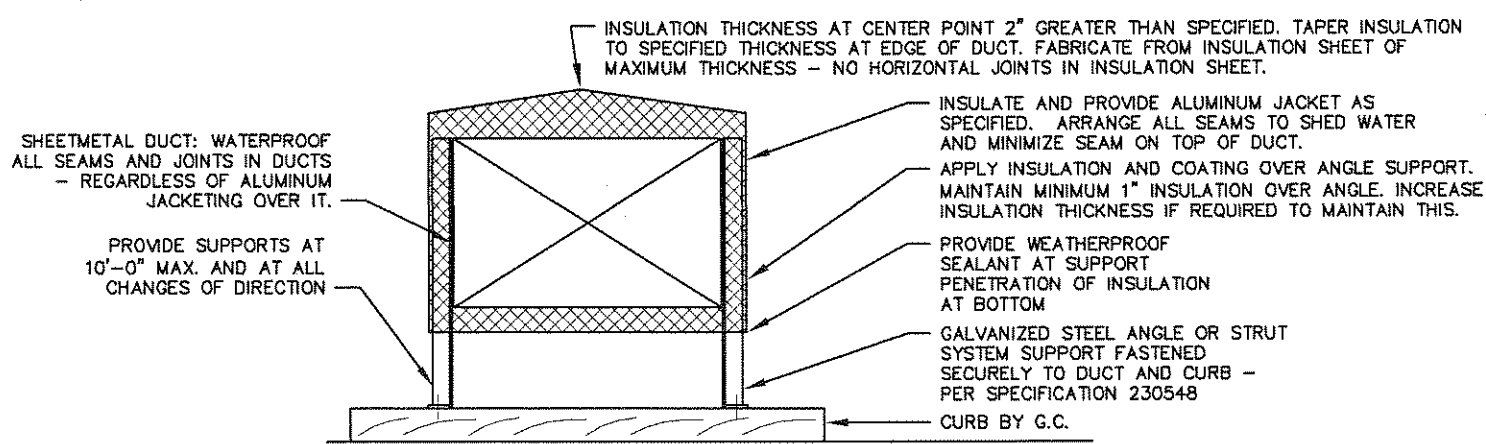
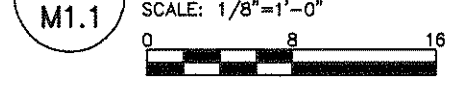
Sheet Number
M1.0



WORK NOTES:

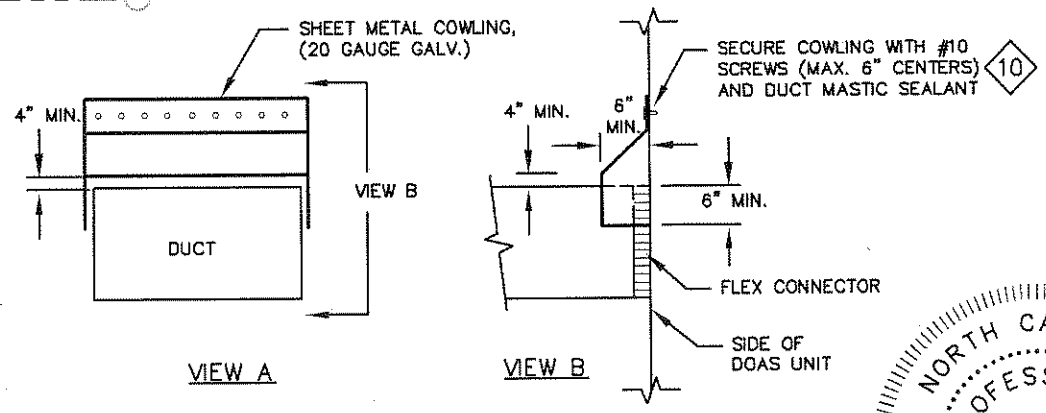
- 1 REMOVE AND REINSTALL EXISTING PIPING AS REQUIRED FOR MOVE TO NEW CURBS AND SUPPORTS (BY G.C.).
- 2 REMOVE AND REINSTALL MECHANICAL UNIT TO NEW CURBS (BY G.C.) APPROX. 12' HIGHER THAN EXISTING. EXTEND ALL CONNECTIONS AND SERVICES AS REQUIRED. RESTORE TO OPERATIONAL CONDITION.
- 3 REMOVE, REINSTALL AND EXTEND EXISTING DUCTWORK AS REQUIRED FOR MOVE TO NEW CURBS AND SUPPORTS (BY G.C.).
- 4 REMOVE EXISTING FANS AND INSTALL ON NEW CURBS (BY G.C.). EXTEND ALL CONNECTIONS AND SERVICES AS REQUIRED. RESTORE TO OPERATIONAL CONDITION.
- 5 REMOVE PIPE FROM EXISTING OVER-SIZED CURB. G.C. WILL CONSTRUCT DOGHOUSE SIZED FOR PIPING FOR M.C. TO UTILIZE. SEE DETAIL 2/108
- 6 VERIFY AND DOCUMENT ALL CONTROL SEQUENCES PRIOR TO DISCONNECTING EQUIPMENT. RESTORE AS EXISTING CONTROL SEQUENCES AFTER REINSTALLATION OF EQUIPMENT. ALL CONTROL WIRING SHALL BE IN CONDUIT PER DIV. 26.
- 7 FILL ENTIRE GAP BETWEEN DUCTS WITH DUCT INSULATION AND SEAL PENETRATION AS (1) DUCT.
- 8 SEE DETAIL 2/M1.1.
- 9 SEE DETAIL 3/M1.1.
- 10 MASTIC SHALL BE UL 181 AND INCLUDE UV INHIBITORS AND BE RECOMMENDED BY MFG. FOR OUTDOOR USE.

1 EQUIPMENT ENCLOSURE DETAIL - HVAC - NEW WORK



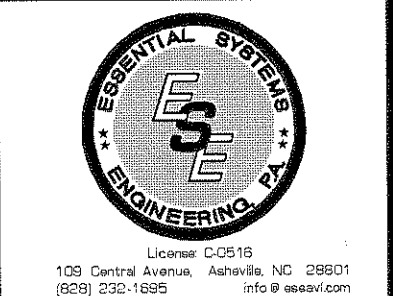
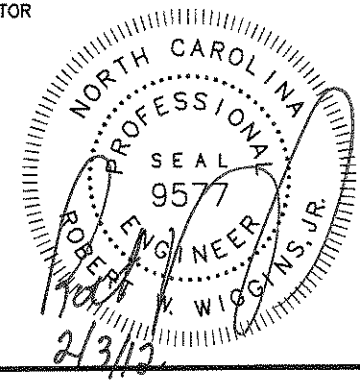
2 DUCTWORK DETAIL

SCALE: NTS



3 COWLING DETAIL - TO PROTECT FLEX CONNECTORS FROM WATER

SCALE: NTS



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 Sheet Number **M1.1**

GENERAL ELECTRICAL NOTES

- A. BOTH CONTRACTOR AND INSTALLING MECHANIC ARE REMINDED THAT SINCE THE NATIONAL ELECTRICAL CODE IS BY STATUTORY INCLUSION A PART OF THE LAWS OF THE STATE THEY BEAR A PRIME RESPONSIBILITY TO COMPLY WITH IT EVEN WHEN THE DRAWINGS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE OBSERVED CAREFULLY AND CONTINUOUSLY, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- B. ELECTRICAL CONTRACTOR SHALL MAINTAIN ON THE SITE AN ADEQUATE ADMINISTRATIVE SPACE WHERE HE SHALL KEEP ONE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE SHALL BE IN ADDITION TO THE SETS CARRIED OUT INTO THE BUILDING FOR WORKING BY. THE PROJECTED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE DRAWINGS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAY-TO-DAY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE END THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK. PARTICULAR CARE SHALL BE TAKEN TO LOCATE BOXES SO THEY ARE NOT BACK-TO-BACK IN WALLS AND TO LOCATE OUTLETS OFF COLUMNS (UNLESS VITAL THEY BE THERE) OR OTHER PLACES WHERE THEY CONFLICT WITH STRUCTURAL STEEL OR REINFORCING BARS.
- C. CONTRACTOR SHALL ALSO MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, FIXTURE AND EQUIPMENT CUTS, MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING ROUGHING AND INSTALLATION SO AS TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION.
- D. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED ON THE SITE FOR ORDERLY AND CAREFUL STORAGE OF ALL MATERIALS AND EQUIPMENT. NOTHING SHALL BE STORED OUTSIDE EXCEPT CONDUIT, WHICH MAY BE STORED IN RACKS SO IT IS AT LEAST 12 INCHES ABOVE GROUND AND NOT SUBJECT TO MUD BEING SPATTERED ON IT.
- E. ATTENTION IS DIRECTED SPECIFICALLY TO SECTION 26 05 00, OF THE SPECIFICATIONS REQUIRING CONTINUOUS QUALITY CONTROL TESTING.
- F. IN GENERAL, MOUNTING HEIGHTS OF OUTLETS, SWITCHES, ETC. ARE NOT NOTED ON THE PLAN DRAWINGS. SCHEDULES AND NOTES SPECIFY "STANDARD" MOUNTING HEIGHTS FOR THESE ITEMS (SEE SPECS). REFER TO DETAILS, & ELEVATIONS, EQUIPMENT DRAWINGS, AND EQUIPMENT VENDOR SHOP DRAWINGS FOR EXACT LOCATION, PLACEMENT, AND MOUNTING HEIGHT OF ALL OUTLETS AND SERVICES. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND DIMENSIONS OF ALL EQUIPMENT WITH EQUIPMENT VENDOR SHOP DRAWINGS. COORDINATE OUTLET LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS. ANY CONFLICT THAT CANNOT BE RESOLVED ON THE JOB SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO ROUGH IN.. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION AND PLACEMENT OF CEILING MOUNTED DEVICES, TYPICAL.
- G. 20 AMP SINGLE PHASE BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORD WITH THE FOLLOWING TABLE:

VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT
120V	0' - 60'	#12	#12
	60' - 100'	#10	#12
	100' - 150'	# 8	#10
277V	0' - 130'	#12	#12
	130' - 220'	#10	#12
	220' - 330'	# 8	#10

OR AS NOTED ON PLANS AND SCHEDULES.

- H. ALL RACEWAYS SHALL BE METAL. ALL PANEL AND SWITCHBOARD FEEDERS AND ANY RACEWAY OUTDOORS OR IN POURED CONCRETE SHALL BE RMC (GALVANIZED RIGID METAL HEAVY WALL). BRANCH CIRCUITS AND ALL OTHER MAY BE EMT.
- I. THE EXISTING PORTIONS OF THIS FACILITY WILL REMAIN IN OPERATION DURING THIS CONSTRUCTION. CONTRACTOR SHALL COOPERATE FULLY WITH THE ADMINISTRATION IN ORDER TO CAUSE AS LITTLE DISRUPTION AS POSSIBLE TO THE FUNCTIONING OF THE FACILITY, AND TO MAINTAIN THE COMFORT AND SAFETY OF THE PUBLIC AND STAFF.
- K. PENETRATIONS OF REQUIRED SMOKE PARTITIONS SHALL BE SEALED USING METHODS APPROVED UNDER THE N.C. STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
- N. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE N.C. STATE BUILDING CODE CHAPTER 7, SECTION 712. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE "UL" APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:

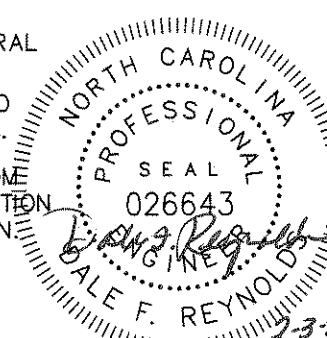
CONDUIT PENETRATIONS OF 1 & 2 HOUR GYPBOARD WALLS - WL1054
FS-ONE FIRE STOP SEALANT
CABLE TRAY PENETRATIONS OF 1 & 2 HOUR GYPBOARD WALLS - WL4038
FS-657 FIRE BLOCKS
CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE OR BLOCK WALLS -WJ1067
FS-ONE FIRE STOP SEALANT
CONDUIT PENETRATIONS OF 4 HOUR CONCRETE OR BLOCK WALLS - WL1068
SLEEVED PENETRATIONS - FS-ONE FIRE STOP SEALANT
CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE FLOORS - FA1014
FS-ONE FIRE STOP SEALANT

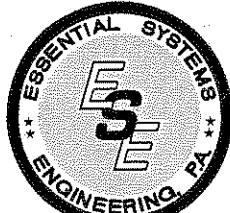
CABLE BUNDLE THROUGH WALL SLEEVES USE "UL" APPROVED ASSEMBLES SUCH AS THE FOLLOWING TO FIRE STOP SLEEVE OPENING:

THROUGH 1 & 2 HOUR GYPBOARD WALLS -WL3065
FS-ONE FIRE STOP SEALANT
THROUGH 1 & 2 HOUR CONCRETE OR BLOCK WALLS -WJ3036
THROUGH 1 & 2 HOUR CONCRETE FLOOR/WALL OR BLOCKWALL - CAJ3216
CP 658T FIRESTOP PLUG
THROUGH 4 HOUR CONCRETE OR BLOCK WALLS - WJ3050
FS-ONE FIRE STOP SEALANT

ASSEMBLY NUMBERS INDICATED ARE FOR "HILTI" PRODUCTS, OR EQUAL BY OTHERS

- O. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. ("HILTI" CP 617 OR EQUAL) COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
- P. REFER TO ARCHITECTURAL PLANS FOR PHASING AND STAGING OF THE PROJECT. ALSO REFER TO ARCHITECTURAL PLANS FOR SPECIFIC AREAS COVERED UNDER ALTERNATES.
- Q. EXISTING CONDUIT RUNS, EQUIPMENT AND OUTLET LOCATIONS HAVE BEEN TAKEN FROM EXISTING DRAWINGS FURNISHED BY THE OWNER AND LIMITED SITE VISIT, ALL INFORMATION SHALL BE FIELD VERIFIED ON THE JOB SITE, BEFORE PROCEEDING WITH CONSTRUCTION.





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DESIGNED	<u>JMC</u>	DRAWN	<u>JMC</u>
CHECKED	<u>DFR</u>	DATE	<u>1/31/2012</u>
PROJECT No.	<u>7393</u>		

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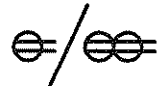

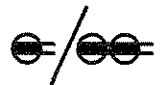

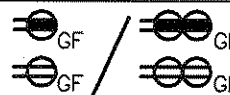
BUNCOMBE COUNTY SCHOOLS
ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina

Project Number
1125
Date
JANUARY 31, 2012

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Sheet Number
EO.1

ELECTRICAL SYMBOL SCHEDULE

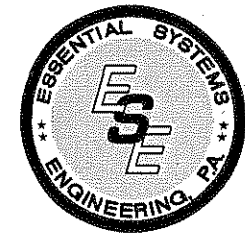
	HOMERUN TO PANELBOARD. QUANTITY OF ARROWS INDICATES QUANTITY OF CIRCUITS. PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL. CONCEALED IN FINISHED AREA, EXPOSED IN UNFINISHED AREAS.		JUNCTION BOX MOUNTED ABOVE CEILING OR FLUSH IN FINISHED CEILING UNLESS INDICATED OTHERWISE. SIZE PER NEC.
	ELECTRICAL PANEL OR EQUIPMENT CABINET AS INDICATED. FLUSH OR SURFACE MOUNTED RESPECTIVELY.		WALL MOUNTED JUNCTION BOX, SIZE PER NEC OR AS INDICATED. MOUNTING HEIGHT AS INDICATED. MOUNT FLUSH IN FINISHED SPACES OR SURFACE IN UNFINISHED SPACES UNLESS OTHERWISE INDICATED.
	SINGLE-POLE SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS. SUBSCRIPT "K" DENOTES KEYED LOCKING TYPE SWITCH.	-----	DEMOLITION
	DISCONNECT SWITCH, FUSIBLE [F] OR NON-FUSIBLE, SIZE AS INDICATED ON PLAN OR SCHEDULE. WHERE INSTALLED OUTDOORS TO BE NEMA 3R, OR AS NOTED.	-----	EXISTING
	SPECIAL DEVICE CONNECTION, CIRCUIT WIRING AS NOTED ON PLANS AND/OR IN SPECIAL SYMBOL SCHEDULE. SEE PLAN NOTES INDICATED OR EQUIPMENT CONNECTION SCHEDULE FOR EXACT REQUIREMENTS. SUBSCRIPT INDICATES EQUIPMENT SCHEDULE DESIGNATION		EQUIPMENT DESIGNATION
	SINGLE/DOUBLE, 20-AMP, 125 VOLT, 3 WIRE DUPLEX RECEPTACLE IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 18-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS.		ABANDON FLUSH MOUNTED DEVICE BOX, WITH BLANK COVER, AND CONDUIT TO ABOVE CEILING LEVEL. TO REMAIN AS IS, EXCEPT WHERE NOTED FOR USE.
	SINGLE/DOUBLE, 20 AMP, 125 VOLT, 3 WIRE DUPLEX RECEPTACLE IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46" ABOVE FINISHED FLOOR, 6" ABOVE DESK/COUNTERTOP, UNLESS OTHERWISE INDICATED ON ARCH. DRAWINGS.		SURFACE MOUNTED DEVICES (PER SYMBOL) WIREMOLD BOX AND RACEWAY IN FINISHED SPACES, SURFACE DEVICE BOX AND CONDUIT IN UNFINISHED SPACES, UNLESS OTHERWISE INDICATED ON DRAWINGS.
	SINGLE/DOUBLE 20 AMP, 125 VOLT, 3 WIRE DUPLEX GROUND FAULT CURRENT INTERRUPTING TYPE DUPLEX RECEPTACLE.	EX.	EXISTING TO REMAIN
		WP	NEMA 3R CONSTRUCTION/WEATHERPROOF
		A.F.F.	ABOVE FINISH FLOOR.
		U.O.N.	UNLESS OTHERWISE NOTED.
		RMC/GRC	GALVANIZED RIGID METAL CONDUIT
		E.C.	ELECTRICAL CONTRACTOR.
		M.C.	MECHANICAL CONTRACTOR.

DEMOLITION – GENERAL NOTES:

1. REMOVE ALL CONDUIT, DEVICES, WIRING, LIGHTING FIXTURES, AND ANY OTHER ELECTRICAL EQUIPMENT RENDERED USELESS DUE TO CONSTRUCTION OR FOUND ABANDONED DURING CONSTRUCTION. REMOVAL OF ABANDONED WIRING AND CONDUIT SHALL BE BACK TO SOURCE EVEN IF OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL USE CAUTION WHERE REMOVING ELECTRICAL SYSTEM WIRING, TO MAINTAIN INTEGRITY OF WIRING TO DEVICES WHICH WILL REMAIN IN SERVICE. EXISTING DEVICES TO REMAIN SHALL BE RE-CIRCUITED AS REQUIRED TO MAINTAIN OPERATION. AT ELECTRICAL PANELS ABANDON CIRCUIT BREAKERS SHALL BE TURNED OFF AND LABELED AS SPARE.
2. ONLY THE PORTIONS OF CONDUIT CONCEALED IN WALLS MAY BE ABANDONED. FOR CONDUIT ABANDONED IN WALLS, REMOVE CONDUCTORS COMPLETELY AND TERMINATE CONDUIT WITH A JUNCTION BOX ABOVE CEILING IN ACCESSIBLE LOCATION. ALL ABANDONED FLUSH JUNCTION AND/OR DEVICE BOXES SHALL HAVE BLANK STAINLESS STEEL COVERS INSTALLED.
3. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS (CIRCUIT NUMBERS, EQUIPMENT LOCATIONS, ETC...) NOTED ON THESE PLANS. EXISTING CONDITIONS WERE TAKEN FROM OWNER FURNISHED RECORD DRAWINGS AND LIMITED SITE VISIT. COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL DEMOLITION PLANS AND OTHER TRADES BEFORE PROCEEDING.
4. COORDINATE REMOVAL AND FINAL DISPOSITION OF ALL EXISTING EQUIPMENT WITH OWNER. DEVICES WITHIN THE DEMOLITION AREA THAT ARE NOT USED IN NEW WORK, SHALL BE TURNED OVER TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE OWNER.
5. REMOVE AND STORE ALL COVER PLATES FOR RECESSED DEVICES THAT ARE TO REMAIN. CAUTION SHOULD BE TAKEN TO INSURE CORRECT REINSTALLATION DURING NEW WORK FOR COVER PLATES THAT HAVE LABELS INDICATING CIRCUIT CONNECTION.
6. CLOSELY COORDINATE SCHEDULING OF PHASING WITH OWNER AND OTHER TRADES. SEE ARCHITECTURAL SHEETS FOR PHASING PROCEDURE.

NEW WORK – GENERAL NOTES:

1. THIS AREA REQUIRES CIRCUITING TO EXISTING PANEL BOARDS, PROVIDE TYPE WRITTEN SCHEDULES FOR ALL PANEL BOARDS AFFECTED BY NEW WORK. SCHEDULE SHOULD REFLECT INSTALLED CONDITIONS AND UTILIZE FINAL ROOM DESIGNATIONS AS SPECIFIED BY ARCHITECT OR OWNER. EXTEND EXISTING WIRING AND RACEWAY, OR PROVIDE NEW TO ACCOMPLISH CIRCUITING SHOWN.
2. PROVIDE DEVICE LABELS, FOR ALL DEVICES (LIGHT SWITCHES, POWER DEVICES) INDICATING THE PANEL AND CIRCUIT FROM WHICH SERVED. LABELS SHALL BE BLACK FOR POWER BRANCH CIRCUITS AND RED FOR LIGHTING BRANCH CIRCUITS. LETTERING HEIGHT SHALL BE 1/4".
3. DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS NOTED OTHERWISE, WITH GROUND IN THE TOP POSITION. ALL TRIM PLATES SHALL BE STAINLESS STEEL WITH SPECIFIED DEVICES, DEVICE COLORS ARE TO OR MATCH EXISTING, UNLESS NOTED OTHERWISE.
4. EXISTING CONDUIT LOCATED IN CEILING CAVITY BELOW ROOF MAY BE REUSED IN EXISTING LOCATION FROM DEMOLITION IF IN GOOD CONDITION AND FEASIBLE FOR NEW WORK. REMOVE ALL UNUSED CONDUIT, PER DEMOLITION NOTES.
5. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF OUTLET BOXES, DEVICES, AND EQUIPMENT WITH ARCHITECTURAL ELEVATIONS, TO AVOID CONFLICTS. ELECTRICAL TYPICAL. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTOR AND LOCATE HIS WORK AND OUTLET BOXES TO AVOID CONFLICTS WITH MECHANICAL CONTRACTOR'S DUCTWORK AND PLUMBING CONTRACTOR'S PIPING IN AREAS WHERE WORK IS ADJACENT.
6. ALL EXISTING FIRE ALARM DEVICES ARE TO REMAIN IN SERVICE. E/C TO SECURE, COVER, PROTECT DURING CONSTRUCTION PERIOD. AUTHORIZED FIRE ALARM CONTRACTOR MUST BE INVOLVED FOR DISCONNECTION ANY DEVICES DIRECTLY AFFECTED BY THIS WORK, AND DISABLED IN PROGRAM. ANY DEVICE OUTAGES NECESSITATED BY THIS WORK ARE TO BE COORDINATED WITH OWNER BEFORE PROCEEDING. CONTRACTOR TO KEEP ALARM PANEL OUT OF TROUBLE MODE WHILE WORK IS IN PROGRESS. ANY DEVICES SO AFFECTED ARE TO BE PUT BACK IN PROPER CONDITION WHEN WORK IS COMPLETE. EXISTING SYSTEM IS NOTIFIER.

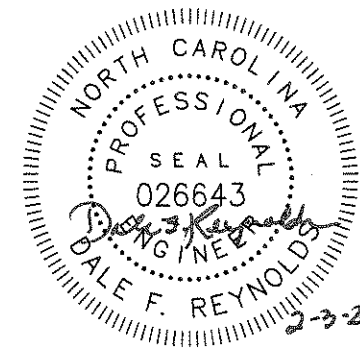


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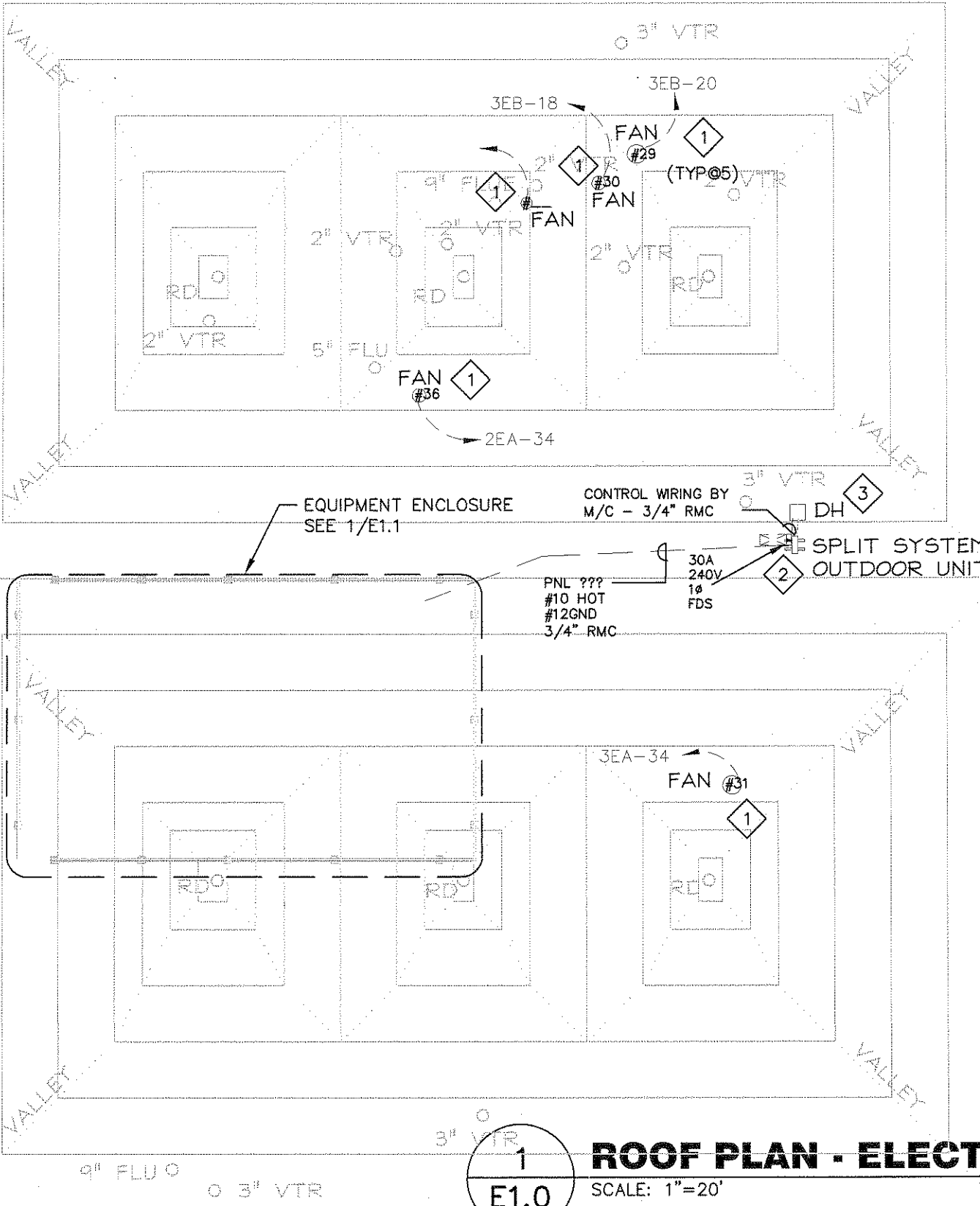
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FAX 252.8535

Sheet Number
EO.2

WORK NOTES:

- 1 DISCONNECT ELECTRICAL SERVICES TO EXISTING FANS FOR REMOVAL AND STORAGE BY M/C. REMOVE EXISTING RACEWAY BACK TO FIRST PULL BOX BELOW ROOF STRUCTURE (INSIDE BUILDING CEILING CAVITY) OR TO PANEL SUPPLYING CIRCUIT WHICHEVER IS CLOSER. REMOVE POWER WIRING BACK TO SOURCE, ALL WIRING TO BE REPLACED FROM SOURCE (BREAKER OR SWITCH) THROUGH EXTENDED (NEW) FAN CURB OR PITCH POCKET TO EQUIPMENT (DISCONNECT). EXTEND ALL CONNECTIONS AND SERVICES AS REQUIRED, TO RESTORE ELECTRICAL EQUIPMENT SERVICES TO OPERATIONAL CONDITION. CIRCUIT WIRING - 115 (120) VOLT SINGLE PHASE CIRCUITS, 1 HOT, 1-NEUTRAL, 1 EQUIP. GND.. 208 (240)VOLT SINGLE PHASE CIRCUITS 2-HOT, 1 EQUIP. GND., 480 THREE PHASE CIRCUITS 3-HOT, 1-EQUIP. GND. WIRES. EXTEND ALL CONNECTIONS AND SERVICES AS REQUIRED, TO RESTORE ELECTRICAL EQUIPMENT SERVICES TO OPERATIONAL CONDITION
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ROOF PLAN - ELECTRICAL

SCALE: 1"=20'

1
E1.0

ALL ROOF PENETRATIONS AND EXPOSED RACEWAY TO BE GALVANIZED RIGID RACEWAY (RMC) WITH FULL THREAD CONNECTORS PER SPECIFICATIONS AND SCO GUIDELINES. GALVANIZED RIGID RACEWAY (RMC) TO EXTEND THOROUGH PITCH POCKET OR PORTAL (DOG HOUSE) SIDE WALL UNTIL ADJACENT TO EQUIPMENT. TRANSITION TO WEATHER-TIGHT FLEXIBLE RACEWAY TO BE IN HORIZONTAL RUN OF RMC UTILIZING THREADED WEATHER-TIGHT ADAPTORS. WEATHER-TIGHT FLEXIBLE RACEWAY TO BE MINIMUM LENGTH NECESSARY FOR EQUIPMENT CONNECT, WITH A MAXIMUM LENGTH NOT TO EXCEED SIX (6) FEET. TYPICAL

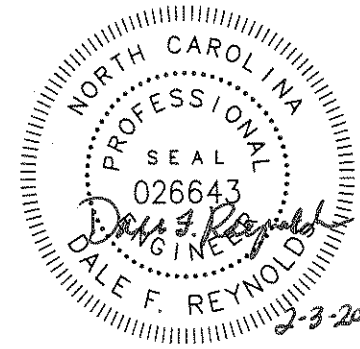


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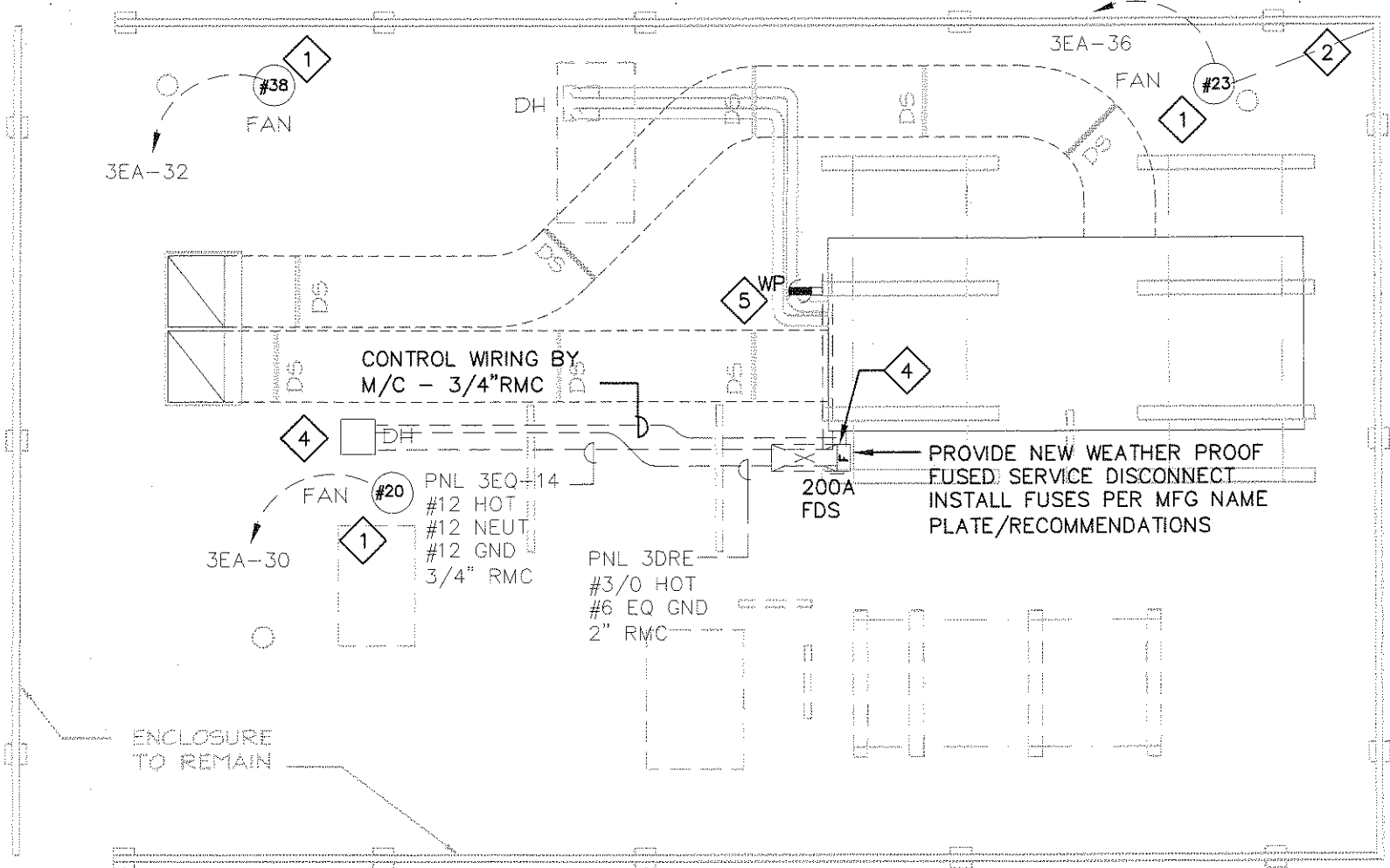
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ERWIN HIGH SCHOOL
E WING ROOF REPLACEMENT
Asheville, North Carolina

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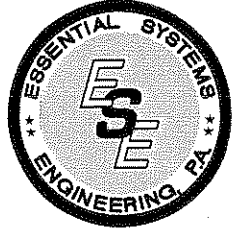
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1 ROOF EQUIPMENT ENCLOSURE - ELECTRICAL

E1.1 SCALE: 1/8"=1'-0"

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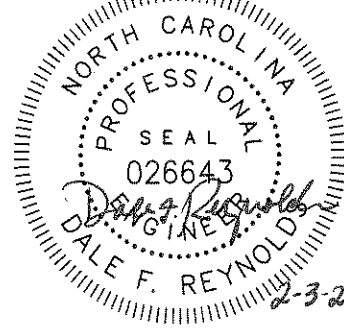


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**BUNCOMBE COUNTY SCHOOLS
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Sheet Number **E1.1**