MAINTENANCE BUILDING ROOF REPLACEMENT

FOR NICHOLLS STATE UNIVERSITY
THIBODAUX, LOUISIANA 70301

Nicholls State University

PROJECT SCOPE

THE SCOPE OF WORK FOR HURRICANE REPAIRS TO THE PRE ENGINEERED METAL WAREHOUSE BUILDING SERVING NICHOLLS STATE UNIVERSITY. PROVIDE AND INSTALL NEW RETROFIT ROOF FRAMING SYSTEM OVER THE EXISTING METAL "R" PANEL ROOF AND INSTALL NEW STANDING SEAM METAL SYSTEM. REMOVE AND REPLACE ALL REQUIRED GUTTERS, DOWNSPOUTS, FLASHINGS, AND TRIMS TO PROVIDE A SECURE, COMPLETE AND WEATHER-TIGHT ROOF SYSTEM.

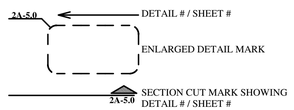
GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL FEES AND INSPECTIONS REQUIRED TO FULLY EXECUTE THE WORK DESCRIBED.
2. THE GENERAL CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE AND NATIONAL CODES AND ORDINANCES IN AFFECT AT THE TIME THE WORK IS PERFORMED.
3. THE GENERAL CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, OR THAT WILL AFFECT THE WORK. NO REQUESTS FOR ADDITIONAL TIME OR EXPENSE SHALL BE ACCEPTED FOR WORK THAT COULD HAVE BEEN DETERMINED OR ANTICIPATED PRIOR TO SUBMITTING BIDS.
4. THE GENERAL CONTRACTOR SHALL CONSULT WITH THE OWNER CONCERNING THE SEQUENCES AND SCHEDULES TO BE EMPLOYED IN PERFORMING THE WORK AND SHALL PREPARE A PROPOSED CONSTRUCTION SCHEDULE FOR APPROVAL BY THE OWNER/ ARCHITECT. UPDATES SHALL BE REVIEWED AT EACH MONTHLY PROJECT MEETING.
5. THE GENERAL CONTRACTOR SHALL PATCH ANY FINISH TO MATCH ANY ADJACENT SPACES WHICH ARE AFFECTED IN ANY MANNER BY THIS CONSTRUCTION.
6. COORDINATE ALL SYSTEM SHUTDOWNS AND SERVICE INTERRUPTIONS WITH THE UNIVERSITY, MAINTENANCE DEPARTMENT, AND ARCHITECT PRIOR TO EXECUTION OF THE WORK. COORDINATION OF ACCESS TO EXISTING BUILDINGS IF REQUIRED SHALL BE SCHEDULED WITH THE OWNER/ ADMINISTRATION IN ADVANCE.
7. THE GENERAL CONTRACTOR SHALL MAINTAIN ALL EXISTING MEANS OF EGRESS AND ALL EXISTING FIRE PROTECTION FEATURES AT ALL TIMES DURING CONSTRUCTION.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMANSHIP AND MAINTAINING THE STANDARDS OF QUALITY, AND SHALL PERFORM ALL WORK INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL PROJECT REQUIREMENTS.
9. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DRAWINGS, SPECIFICATIONS, ALL EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN AND BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY ERROR RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTION, WHICH WILL NOT BE CONSIDERED SUBSEQUENTLY AS A BASIS FOR EXTRA COMPENSATION. SHOULD A CONTRACTOR DISCOVER DISCREPANCIES IN, OR OMISSIONS FROM THE CONTRACT DOCUMENTS, OR SHOULD HE BE IN DOUBT AS TO THEIR MEANING, THE CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR AN INTERPRETATION.
10. ALL DETAILS SHOWN ARE DERIVED FROM EXISTING ORIGINAL DOCUMENTS WHICH WERE AVAILABLE, AND ON SITE VISUAL EVALUATIONS AND PROFESSIONAL JUDGEMENTS. ACTUAL DETAILS MAY VARY FROM THOSE ANTICIPATED. AS SOON AS VARIATIONS ARE DISCOVERED, ANY MODIFICATIONS TO THE DESIGN REPLACEMENT DETAIL MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECT BEFORE WORK CAN BE COMPLETED. FIELD VERIFY ALL DIMENSIONS ON THE JOB SITE. THE DIMENSIONS INDICATED ON THE EXISTING FLOOR PLANS ARE TAKEN FROM THE ORIGINAL EXISTING DRAWINGS, SITE VISUAL EVALUATION, AND PROFESSIONAL JUDGEMENTS. (TYP.)
11. THE CONTRACTOR IS RESPONSIBLE FOR SECURING AND PROTECTING THE INTERIOR OF THE EXISTING BUILDING WEATHERTIGHT FROM THE ELEMENTS DURING THE DURATION OF THE PROJECT.
12. FIELD VERIFY ALL DIMENSIONS ON THE JOB SITE. THE DIMENSIONS INDICATED ON THE ROOF PLANS ARE TAKEN FROM FIELD OBSERVATION. (TYP.)

ABBREVIATIONS

AFF.	ABOVE FINISHED FLOOR
AL	ACCESSIBLE LAVATORY
APP.	APPROXIMATE
AU	ACCESSIBLE URINAL
AWC	ACCESSIBLE WATER CLOSET
BLDG.	BUILDING
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CJ	CONTROL JOINT
CONC.	CONCRETE
CONT.	CONTINUOUS
C.R.	CURTAIN AND CURTAIN ROD
DIA.	DIAMETER
EHD.	ELECTRICAL HAND DRYER
EJ	EXPANSION JOINT
EL.	ELEVATION
EP	ELECTRICAL PANEL
EWC	ELECTRIC WATER COOLER
EXP.	EXPOSED
FE	FIRE EXTINGUISHER
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FW	FIRE WALL
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GB1	36"GRAB BAR
GB2	42"GRAB BAR
GYP BD.	GYPSUM WALL BOARD
HR	HANDICAPPED RAMP
L	LAVATORY
M-1	FLOAT GLASS MIRROR
M-2	FRAMED MIRROR
MECH	MECHANICAL
ME	MATCH EXISTING
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPP.	OPPOSITE
OTS.	OPEN TO STRUCTURE
PNT	PAINTED
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
RH	ROBE HOOK
RE:	REFERENCE
S	SINK
SD	SOAP DISPENSER
S.F.	SQUARE FOOT
SH	SHOWER
SPECS.	SPECIFICATIONS
SR	SHOWER ROD, CURTAIN AND HOOKS
STL.	STEEL
STRUCT.	STRUCTURAL
SW	SMOKE WALL
WC	WATER CLOSET
TB	TOWEL BAR
T.F.	TRANSPARENT FINISH
THK	THICK
T.O.S.	TOP OF STEEL
TPH	TOILET PAPER HOLDER
TW	FIRE TREATED WOOD
TYP.	TYPICAL
U	URINAL
VOJ	VERIFY ON JOB
WC	WATER CLOSET

DRAFTING SYMBOLS



INDEX

TITLE- PROJECT NAME, VICINTY MAP, INDEX, PROJECT SCOPE, AND GENERAL NOTES

A-1.0- DEMOLITION ROOF PLAN

A-2.0- REPLACEMENT ROOF PLAN; METAL ROOFING DETAILS

A-2.1- RETROFIT ROOF FRAMING SYSTEM PLANS AND DETAILS



VICINITY MAP

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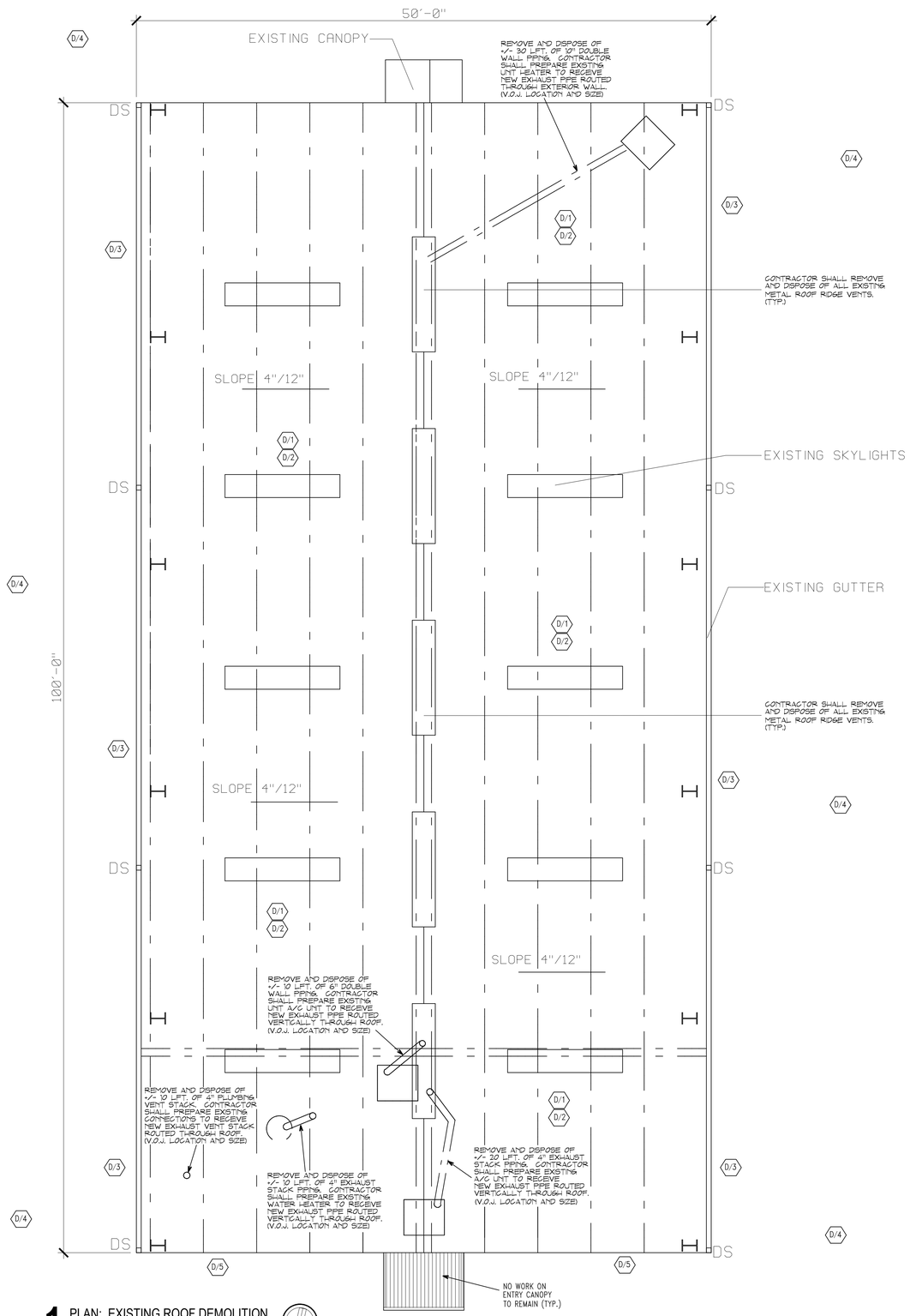
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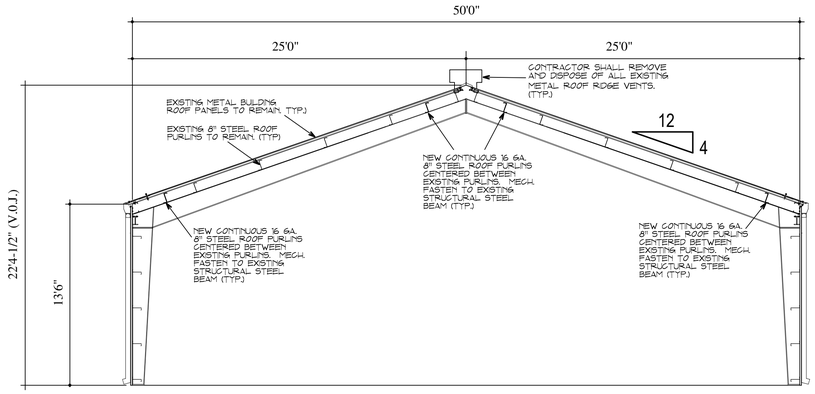
SHEET NO. TITLE

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1 PLAN: EXISTING ROOF DEMOLITION
3/16" = 1'0"
RE: 1A-2.0

TRUE NORTH



2 SECTION: EXISTING ROOF STRUCTURE
3/16" = 1'0"
RE: 1A-1.0, 1A-2.0, 1A-2.1

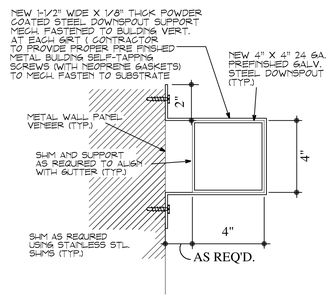
3 ROOFING DEMOLITION NOTES
RE: 1A-1.0

★ REFER TO GENERAL NOTES AND GENERAL ROOFING NOTES ON TITLE PAGE FOR ADDITIONAL INFORMATION.

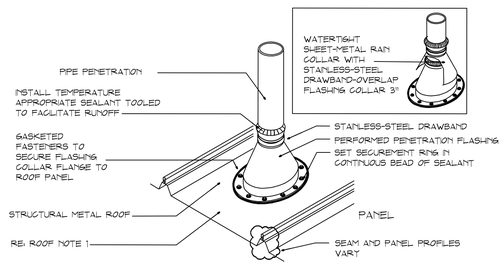
D/1	– THE CONTRACTOR SHALL PREPARE THE EXISTING METAL ROOFING SYSTEM TO RECEIVE NEW RETROFIT ROOF FRAMING SYSTEM. REMOVE ALL TRIMS, FLASHINGS AND FASTENERS NECESSARY TO PROVIDE CLEARANCE TO THE EXISTING STRUCTURE FOR THE NEW FRAMING SYSTEM. THE NEW RETROFIT ROOF FRAMING SYSTEM SHALL PRODUCE A MATCHING, STABLE AND SECURE ROOFING STRUCTURE CAPABLE OF WITHSTANDING REQUIRED WIND LOADING. (TYP.) PREPARE AREA TO RECEIVE NEW T-LOCK STANDING SEAMED METAL ROOFING SYSTEM. REPLACE ANY STRUCTURAL STEEL ELEMENTS DAMAGED DURING DEMOLITION.
D/2	– THE CONTRACTOR SHALL PROTECT EXISTING CONDUITS, CABLING, AND LIGHTING SYSTEMS IN CONTACT WITH THE EXISTING ROOF STRUCTURE.
D/3	– DEMOLISH AND REMOVE EXISTING METAL BUILDING STYLE INTEGRAL GUTTERS ENTIRELY INCLUDING ALL SUPPORTS, FLASHINGS AND DOWNSPOUTS ASSOCIATED. REPAIR ANY DAMAGED EXISTING METAL CLEATS, TRIMS BLOCKING ETC. NECESSARY TO FULLY SUPPORT THE NEW METAL BUILDING STYLE INTEGRAL GUTTER TO MATCH THE EXISTING. (TYP.)
D/4	– THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING LAWNS AND AGGREGATE PARKING AND DRIVES DISTURBED DURING CONSTRUCTION. THIS SHALL INCLUDE THE ADDITION OF MATERIAL AND GRADING OF EXISTING SURFACE AREAS TO REPAIR RUTS AND WHEEL MARKS. AFTER FINE GRADING, THE CONTRACTOR SHALL HYDROSEED ALL LAWN AREAS DISTURBED USING UNHULLED COMMON BERMUDA SEED.
D/5	– THE CONTRACTOR CAREFULLY REMOVE EXISTING RAKE TRIM AND FASCIA COVER. CONTRACTOR SHALL PROTECT EXISTING FINISH OF STUCCO/ EIFS WALL AND PREPARE FINISHES TO RECEIVE NEW RAKE TRIM. (TYP.) (V.O.J.) (GEN. NOTE #5. THE GENERAL CONTRACTOR SHALL PATCH ANY FINISH TO MATCH ANY ADJACENT SPACES WHICH ARE AFFECTED IN ANY MANNER BY THIS CONSTRUCTION.)
	GENERAL NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB SITE PRIOR TO BID
	GENERAL NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BUILDING IN A DRY CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PROTECT FINISHES DURING DURATION OF CONSTRUCTION INCLUDING WALLS, FLOORS, CEILINGS, ROOFING, & SOFFITS. ALL BUILDING ELEMENTS SHALL BE PROTECTED FROM WEATHER DAMAGE AND MOISTURE INFILTRATION DURING CONSTRUCTION ACTIVITY. ANY DAMAGE DUE TO CONSTRUCTION ACTIVITY SHALL BE CORRECTED AT NO COST TO THE OWNER. (TYP.)
	GENERAL NOTE: CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS. CONTRACTOR SHALL SWEEP THE GREEN SPACES AS WELL AS ALL PARKING LOTS WITHIN 20'0" OF THE CONSTRUCTION AREA USING A HIGH POWERED MAGNET TO REMOVE ALL LOOSE FASTENERS AND DEBRIS.
	GENERAL NOTE: ALL DETAILS AND NOTES SHOWN ARE DERIVED FROM LIMITED EXISTING ORIGINAL DOCUMENTS WHICH WERE AVAILABLE, AND ON SITE VISUAL EVALUATIONS AND PROFESSIONAL JUDGEMENTS. ACTUAL DETAILS MAY VARY FROM THOSE ANTICIPATED. AS SOON AS VARIATIONS ARE DISCOVERED, ANY MODIFICATIONS TO THE DESIGN REPLACEMENT DETAIL MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECT BEFORE WORK CAN BE COMPLETED. FIELD VERIFY ALL DIMENSIONS ON THE JOB SITE. THE DIMENSIONS INDICATED ON THE EXISTING FLOOR PLANS ARE TAKEN FROM THE ORIGINAL EXISTING DRAWINGS, SITE VISUAL EVALUATION, AND PROFESSIONAL JUDGEMENTS. (TYP.)
	GENERAL NOTE: CONTRACTOR IS TO COORDINATE WORK WITH BOTH THE DESIGNER AND THE USER AGENCY.
	GENERAL NOTE: CONTRACTOR IS TO COORDINATE RESTRICTED AND/ OR STAGING AREAS, AS WELL AS TEMPORARY UTILITY SHUTDOWN WITH THE USER AGENCY.
	GENERAL NOTE: CONTRACTOR IS TO SEAL THE ROOF ON THE SAME DAY AS ANY INSTALLATION. IN ADDITION, THE CONTRACTOR SHOULD NOT INITIATE MORE ROOF THAN CAN BE COMPLETED ON THE SAME DAY; KEEPING WATCH ON HOURLY LOCAL RAIN FORECASTS AND ACTUAL WEATHER CONDITIONS.

4 LEGEND

	EXISTING ROOF SLOPE
DS	EXISTING GUTTER AND DOWNSPOUT



5 DETAIL: Downspout
3" = 1'0"
RE: 1A-1.0, 1A-2.0



6 DETAIL: Roof Penetration Boot
N.T.S.
RE: 1A-2.0

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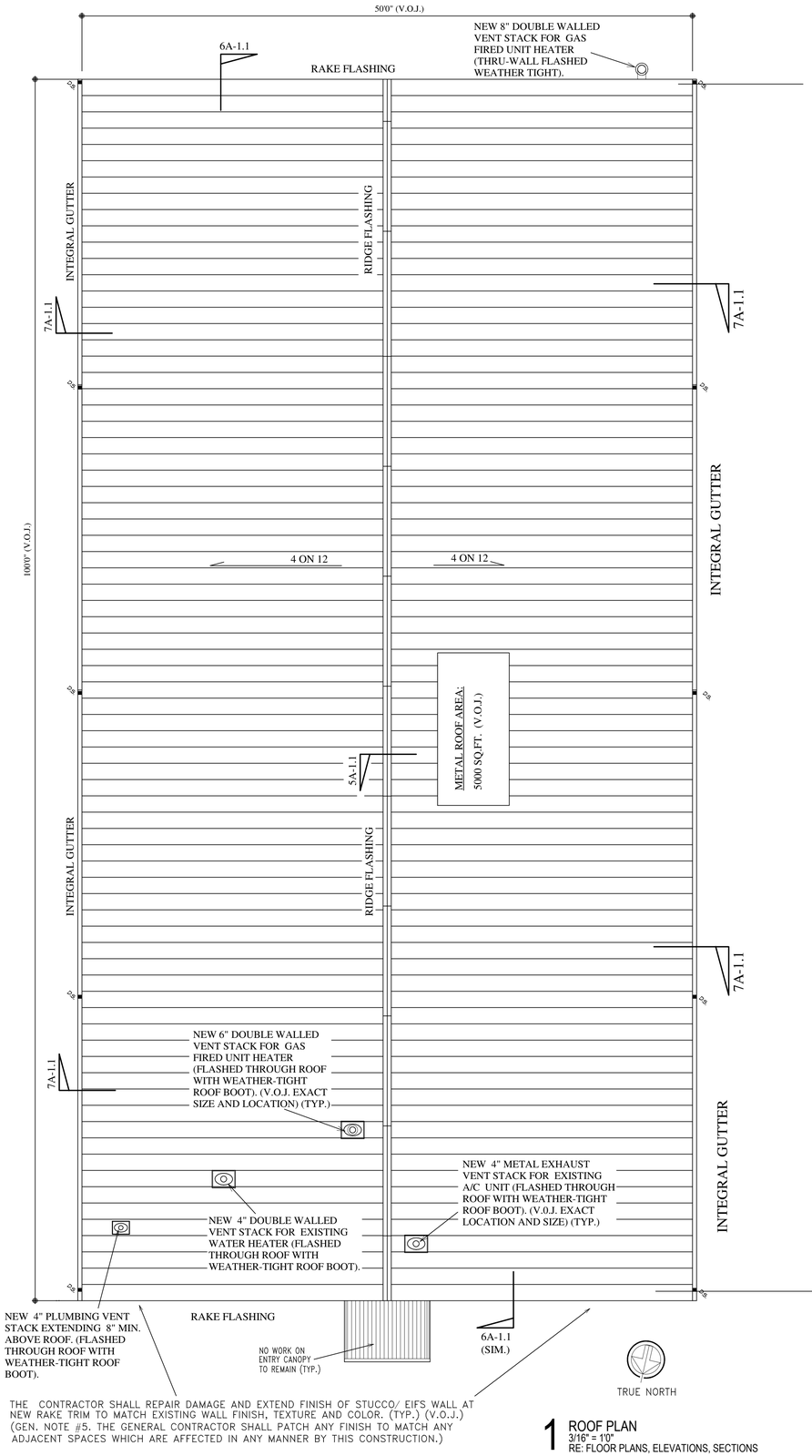
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PROJECT NO.
2407

SHEET NO.
A-1.0

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THE CONTRACTOR SHALL REPAIR DAMAGE AND EXTEND FINISH OF STUCCO/ EIFS WALL AT NEW RAKE TRIM TO MATCH EXISTING WALL FINISH, TEXTURE AND COLOR. (TYP.) (V.O.J.) (GEN. NOTE #5. THE GENERAL CONTRACTOR SHALL PATCH ANY FINISH TO MATCH ANY ADJACENT SPACES WHICH ARE AFFECTED IN ANY MANNER BY THIS CONSTRUCTION.)

1 ROOF PLAN
3/16" = 1'0"
RE: FLOOR PLANS, ELEVATIONS, SECTIONS

2 ROOFING NOTES

★ CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB SITE PRIOR TO BID. (RE: GENERAL NOTE #10)

1. ROOF PENETRATION: VENT STACKS AND OTHER PIPES SHALL HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
   ROOF PENETRATIONS SHALL NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
   HIGH-TEMPERATURE BOOTS SHALL BE USED TO FLASH ALL "HOT PIPES".
2. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE REQUIRED PREMANUFACTURED ROOF SYSTEM DETAIL (RE: METAL BUILDING ROOF SYSTEM PROVIDER) TO REFLECT EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TRIMS, FLASHINGS AND SUPPORTS, INCLUDING MISCELLANEOUS STRUCTURAL STEEL, NEEDED TO CREATE A COMPLETE, SECURE AND WEATHER TIGHT SYSTEM.
3. FASTENERS SHALL BE CONCEALED WHENEVER POSSIBLE. IN CONDITIONS WHERE EXPOSED FASTENERS ARE REQUIRED LONG LIFE FASTENERS SHALL BE USED.
4. GENERAL NOTE: THE SUCCESSFUL ROOFING CONTRACTOR SHALL FOLLOW THE STANDARDS CONTAINED IN THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) AND THE SHEETMETAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA). IF THERE ARE ANY AREAS OF ROOFING NOT ADDRESSED IN THE CONTRACT DOCUMENTS, THESE AREAS SHALL BE ADDRESSED BY USING THE ABOVE MENTIONED STANDARDS AND COORDINATED WITH THE SUCCESSFUL ROOFING MANUFACTURER AND THE ARCHITECT. (TYP.)
5. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS. CONTRACTOR SHALL SWEEP THE GREEN SPACES AS WELL AS ALL PARKING LOTS WITHIN 20'0" OF THE CONSTRUCTION AREA USING A HIGH POWERED MAGNET TO REMOVE ALL LOOSE FASTENERS AND DEBRIS.

GENERAL NOTE: THE CONTRACTOR SHALL NOT REMOVE MORE ROOFING THAN CAN BE ADDRESSED IN A SINGLE DAY. THE GENERAL CONTRACTOR SHALL MAINTAIN BUILDING IN A DRY CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT FINISHES DURING DURATION OF CONSTRUCTION. THIS SHALL INCLUDE WALLS, FLOORS, CEILINGS, ROOFING, & SOFFITS. ALL BUILDING ELEMENTS SHALL BE PROTECTED FROM WEATHER DAMAGE AND MOISTURE INFILTRATION DURING CONSTRUCTION ACTIVITY. ANY DAMAGE DUE TO CONSTRUCTION ACTIVITY SHALL BE CORRECTED AT NO COST TO THE OWNER. (TYP.)

GENERAL NOTE: CONTRACTOR IS TO COORDINATE WORK WITH BOTH THE DESIGNER AND THE USER AGENCY.

GENERAL NOTE: CONTRACTOR IS TO COORDINATE RESTRICTED AND/ OR STAGING AREAS, AS WELL AS TEMPORARY UTILITY SHUTDOWN WITH THE USER AGENCY.

GENERAL NOTE: CONTRACTOR IS TO SEAL THE ROOF ON THE SAME DAY AS ANY INSTALLATION. IN ADDITION, THE CONTRACTOR SHOULD NOT INITIATE MORE ROOF THAN CAN BE COMPLETED ON THE SAME DAY; KEEPING WATCH ON HOURLY LOCAL RAIN FORECASTS AND ACTUAL WEATHER CONDITIONS.

3 ROOF FRAMING COORDINATION NOTES:

1. THE CONTRACTOR SHALL PROVIDE ROOF FRAMING PLAN TO THE ROOFING MANUFACTURER AND SHALL RECEIVE WRITTEN CONFIRMATION FROM THE MANUFACTURER THAT THE ROOF FRAMING PLAN AS DRAWN IS ACCEPTABLE FOR THE SPECIFIED WARRANTY TO BE ISSUED.
2. A WRITTEN CERTIFICATION LETTER SIGNED BY A RETROFIT ROOF SYSTEM MANUFACTURER'S ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR INDICATING THAT THE ROOF, THE ROOF PANELS, CLIPS AND SPACING, AND ALL ATTACHMENTS SHALL MEET THE CURRENT BUILDING CODE (IBC) REQUIREMENTS. (RE: WINDLOADS CHART ATTACHED)
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOBSITE PRIOR TO BID.
4. ANY ADDITIONAL MISCELLANEOUS STEEL NECESSARY TO MEET THE WINDLOADING PRESSURES INDICATED SHALL BE PROVIDED. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE RETROFIT ROOF MANUFACTURER/ INSTALLER AND METAL BUILDING CONTRACTOR TO MEET THE REQUIREMENTS. COSTS FOR ALL SUCH ITEMS SHALL BE INCLUDED IN THE BASE BID. ANY ADDITIONAL COST FOR FOR MATERIAL, SHIPPING, FABRICATION OR LABOR NECESSARY TO MEET THE ROOF SYSTEM MANUFACTURER'S WARRANTY (INCLUDING DESIGN SAFETY FACTORS) SHALL NOT BE CONSIDERED AS GROUNDS FOR CHANGE ORDER AFTER THE BID.
5. THE CONTRACTOR SHALL REFER TO THE RETROFIT ROOF FRAMING SYSTEM MANUFACTURERS FINAL/ STAMPED ENGINEERED DOCUMENTS FOR THE EXACT CONFIGURATION, SIZE AND SPACING OF ALL RETROFIT ROOF FRAMING SYSTEM ELEMENTS. (TYP.)

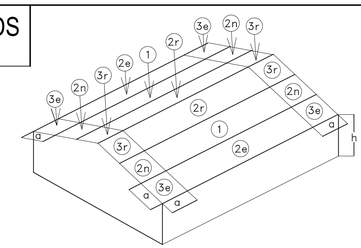
4 ROOFING WINDLOADS
RE:

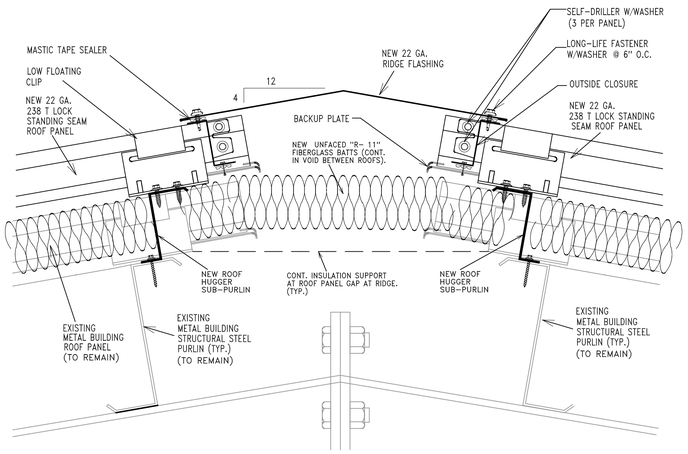
WIND SPEED- 155 MPH (3 SECOND GUSTS)
(EXPOSURE CATAGORY B)

THE FOLLOWING VALUES ARE DERIVED USING ASCE 7-16, METHOD 1- STRENGTH DESIGN METHOD IS BEING UTILIZED

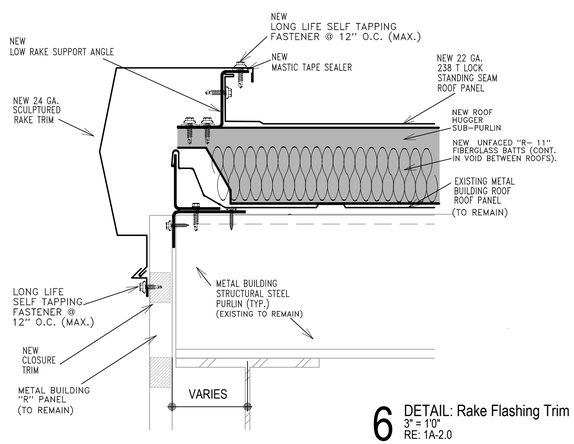
ROOF ZONE 1 - 76.1 POUNDS PER SQ. FT.
ROOF ZONE 2e - 76.1 POUNDS PER SQ. FT.
ROOF ZONE 2n - 83.7 POUNDS PER SQ. FT.
ROOF ZONE 2r - 76.1 POUNDS PER SQ. FT.
ROOF ZONE 3e - 102.6 POUNDS PER SQ. FT.
ROOF ZONE 3r - 83.7 POUNDS PER SQ. FT.

a= 4.5 ft

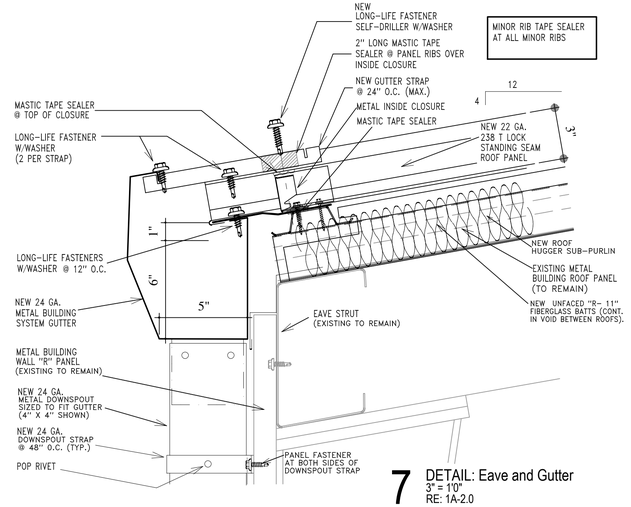




5 DETAIL: Roof Ridge Flashing
3" = 1'0"
RE: 1A-2.0



6 DETAIL: Rake Flashing Trim
3" = 1'0"
RE: 1A-2.0



MINOR RIB TAPE SEALER AT ALL MINOR RIBS

7 DETAIL: Eave and Gutter
3" = 1'0"
RE: 1A-2.0

DOWNSPOUT CAPACITY REQUIRED:

- AREA OF ROOF (TOTAL) = 5250 SF.
- # OF DOWNSPOUTS = 8 PROVIDED
- AREA SERVED/ DOWNSPOUT = 657 SF.
- SMACNA 100 YEAR STORM DESIGN CAPACITY: AREA OF ROOF SERVED / SQ.IN. OF DOWNSPOUT = 110 SF.
- CAPACITY OF DOWNSPOUTS - 16 SQ.IN. X 110 = 1760 SF./ DOWNSPOUT
- 5250 SF. ROOF AREA / 1760 SF.PER DOWNSPOUT = 3 D.S. REQUIRED

- 8 DOWNSPOUTS PROVIDED EXCEEDS 3 DOWNSPOUTS REQUIRED

GUTTER SIZE REQUIRED

- PEAK FLOW RATE - Q= C x I x A
  - C = 1.0
  - I = 6IN./ HR.
  - A = 2625 SF.
- REQUIRED Q = 15,750 GPM
- GUTTER LENGTH = 25'
- GUTTER SIZE (D X W) = 6" X 5"
- M = 6" / 5" = 1.2
- USING SMACNA CHART 1.1
- AVAILABLE Q = 17,250 GPM

- AVAILABLE Q (17,250 GPM) EXCEEDS REQUIRED Q (15,750 GPM)

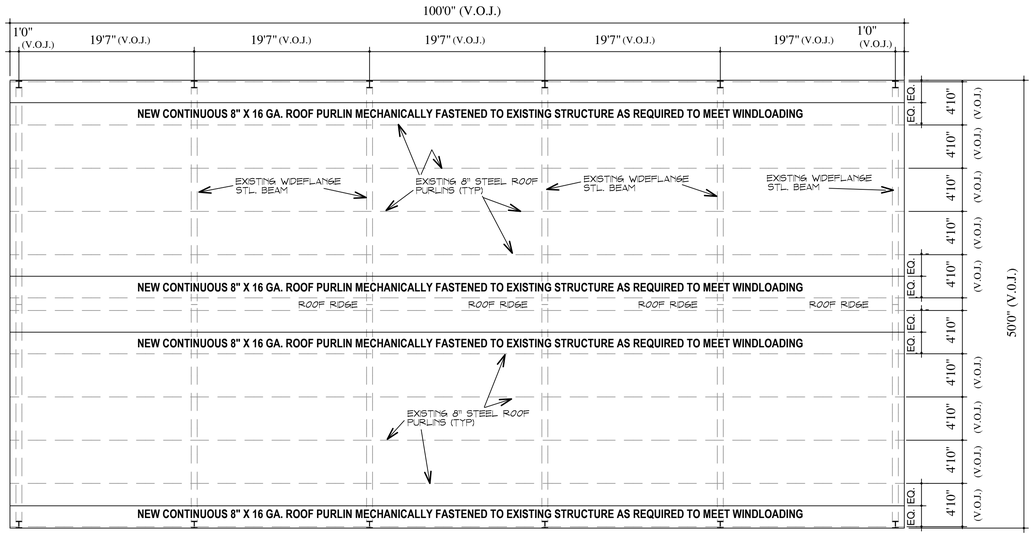
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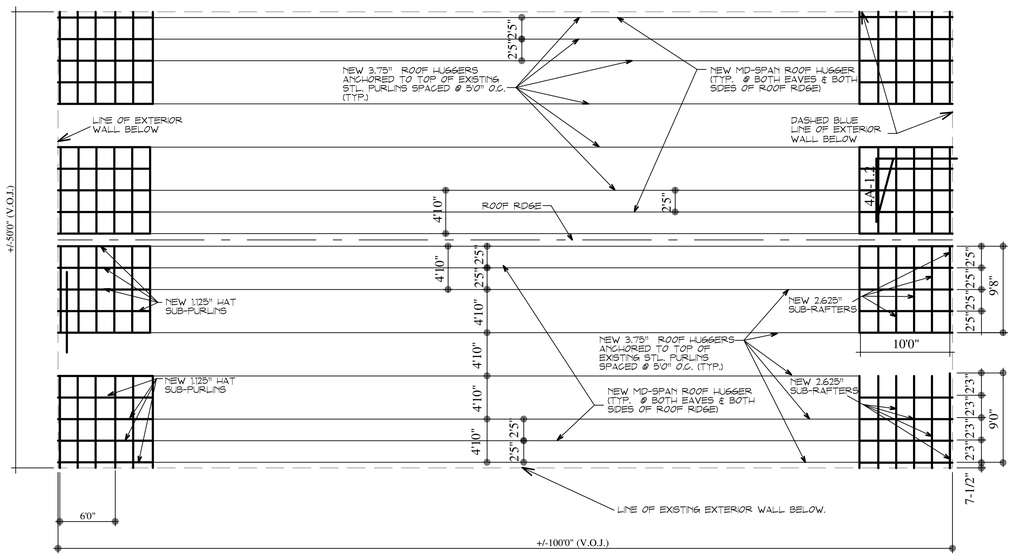
1 EXISTING ROOF FRAMING PLAN
1/8" = 1'0"
RE: 1A-1.2 & 2A-1.2 NOTES

* CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB SITE PRIOR TO BID. (RE: GENERAL NOTE #10)

*** CONTRACTOR SHALL INSTALL NEW UNFACED "R- 11" FIBERGLASS BATTS (CONT. IN VOID BETWEEN ROOFS).

METAL ROOF AREA:

+/-5000 SQ.FT. (V.O.J.)



2 ROOF PLAN: New Retro-Framing Design Grid
1/8" = 1'0"
RE: 1A-1.2 & 2A-1.2 NOTES

TRUE NORTH



* CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB SITE PRIOR TO BID. (RE: GENERAL NOTE #10)

** REFER TO MANUFACTURERS ENGINEERED DOCUMENTS FOR EXACT CONFIGURATION, SIZE AND SPACING OF ALL RETROFIT ROOF FRAMING SYSTEM ELEMENTS.

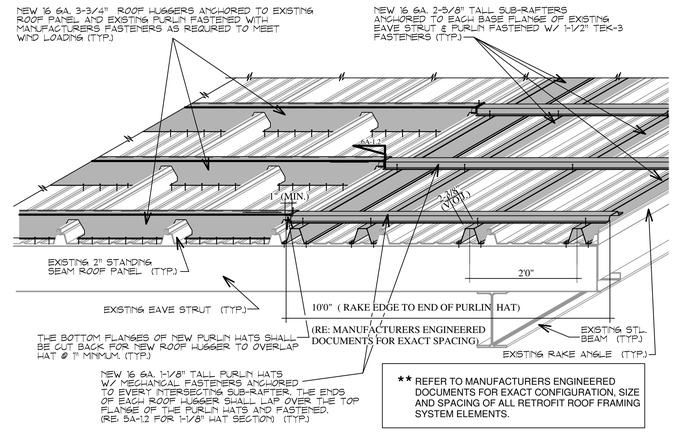
NOTES

1. RETROFIT FRAMING SYSTEM BASED ON THE FOLLOWING ASSUMPTIONS:
   - EXISTING PURLIN GAUGE: 16 GA.
   - EXISTING PURLIN SPACING: 4'10"
   - ROOF PITCH: 4.0:12
   - MEAN EAVE HEIGHT: 16'
   - IMPORTANCE FACTOR: 1.15
   - BUILDING CATEGORY: ENCLOSED
   - BUILDING CLASSIFICATION: III
   - IBC 2021 WIND ZONE = 155 MPH
   - WIND EXPOSURE FACTOR: B
   - EXISTING ROOF TYPE: 50'X100' GABLED
2. CALCULATED ROOF LOADS BASED ON ABOVE INFORMATION:

   THE FOLLOWING VALUES ARE DERIVED USING ASCE 7-16, METHOD 1- STRENGTH DESIGN METHOD IS BEING UTILIZED

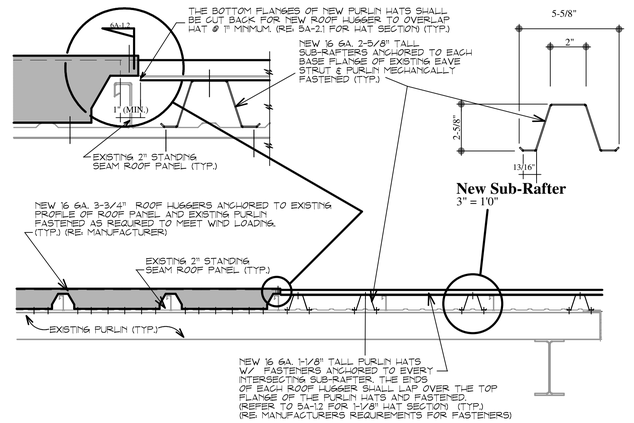
   - ROOF ZONE 1 - 76.1 POUNDS PER SQ. FT.
   - ROOF ZONE 2e - 76.1 POUNDS PER SQ. FT.
   - ROOF ZONE 2n - 83.7 POUNDS PER SQ. FT.
   - ROOF ZONE 2r - 76.1 POUNDS PER SQ. FT.
   - ROOF ZONE 3e - 102.6 POUNDS PER SQ. FT.
   - ROOF ZONE 3r - 83.7 POUNDS PER SQ. FT.

   EDGE/CORNER ZONE DISTANCE: 10' X 9'
3. NEW ROOF MATERIAL:
   - MANUFACTURER: RE: SECTION 13-34-21 OF SPECIFICATIONS.
   - PANEL TYPE: 238 T LOCK BATTEN STANDING SEAM
   - PANEL GAUGE: 24 GA.

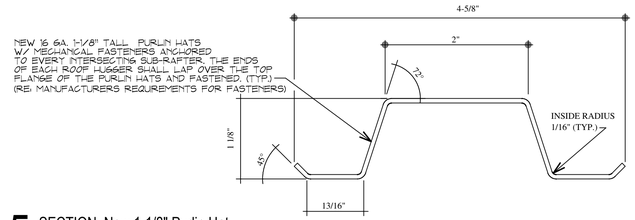


** REFER TO MANUFACTURERS ENGINEERED DOCUMENTS FOR EXACT CONFIGURATION, SIZE AND SPACING OF ALL RETROFIT ROOF FRAMING SYSTEM ELEMENTS.

3 ISOMETRIC: New Roof Hugger Structure @ Typ. Roof Corner
3/4" = 1'0"
RE: 2A-2.1 & SPECIFICATIONS

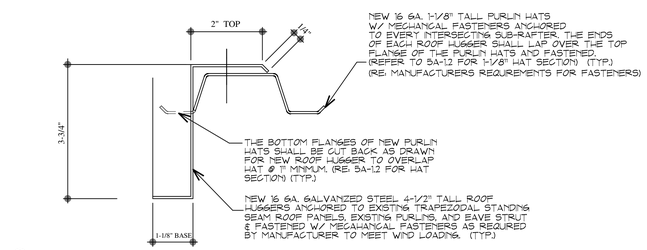


4 SECTION: New Roof Hugger Structure @ Typ. Roof Corner
3/4" = 1'0"
RE: 1A-2.1 & 2A-2.1



5 SECTION: New 1-1/8" Purlin Hat
FULL SCALE
RE: 1A-2.1 & 2A-2.1

** REFER TO MANUFACTURERS ENGINEERED DOCUMENTS FOR EXACT CONFIGURATION, SIZE AND SPACING OF ALL RETROFIT ROOF FRAMING SYSTEM ELEMENTS.



6 SECTION: New 1-1/8" Purlin Hat @ Roof Hugger
6" = 1'0"
RE: 1A-2.1 & 2A-2.1

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ROOF REPLACEMENT
FOR
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THIBODAUX, LA 70301

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REVISED:

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PROJECT NO. 2407

SHEET NO. A-2.1

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