



**ROCKFORD BOARD OF EDUCATION  
INVITATION FOR BID ON SUPPLIES, MATERIALS, EQUIPMENT OR SERVICES  
FOR SCHOOL DISTRICT NO. 205  
ROCKFORD, ILLINOIS**

IFB No. 21-41 Fairview E.C.C. Roof Replacement

DATE: June 2, 2021

RE: **ADDENDUM NO. 4**

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To All Bidders:

Included are modifications, clarifications and/or corrections for the Project Manual and are hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

**If you plan to hand deliver your IFB submission on the due date, please note you must check in on the 2nd floor prior to coming to the bid opening. Please allow time for this as late submission will not be accepted.**

Refer all questions relative to the business aspect, Instructions to Bidders, Special Conditions, and questions concerning the technical aspect of the documents to the Director of Purchasing by email at [purchasingdeptstaff@rps205.com](mailto:purchasingdeptstaff@rps205.com).

ROCKFORD BOARD OF EDUCATION

By: Dane Youngblood  
Director of Purchasing



## ADDENDUM

TO: PROSPECTIVE BIDDERS

RE: ADDENDUM # 4

PROJECT NUMBER: RPS# 2126 BFA # 1121

IFB No. 21-41

FOR: Roof Replacement for Fairview Early Childhood Center

ADDRESS: 512 Fairview Avenue  
Rockford, IL

DATE: 06-02-2021

Please attach Addendum 4 to the above Drawings, and kindly take same into consideration in preparing your proposal.

By \_\_\_\_\_  
Rob C. Belles,  
Belles Firm of Architecture Inc.

**This addendum consists of 11 pages including this sheet.**

Project Number: RPS# 2126 BFA # 1121  
IFB No. 21-41  
For: Roof Replacement for Fairview Early Childhood Center  
Address: 512 Fairview Avenue  
Rockford, IL

Addendum 4  
Page 2

## CHANGE TO THE SCOPE

Exhaust fans and ventilation fans are to be removed and replaced with new. This addendum includes updated Architectural Plans and updated Architectural Details. This addendum contains (4) NEW Mechanical Sheets. Please note that the quantity of fans on the East Wing has changed.

Contractor's alternate to provide all new curbs in place of curb extensions and curb adaptors.

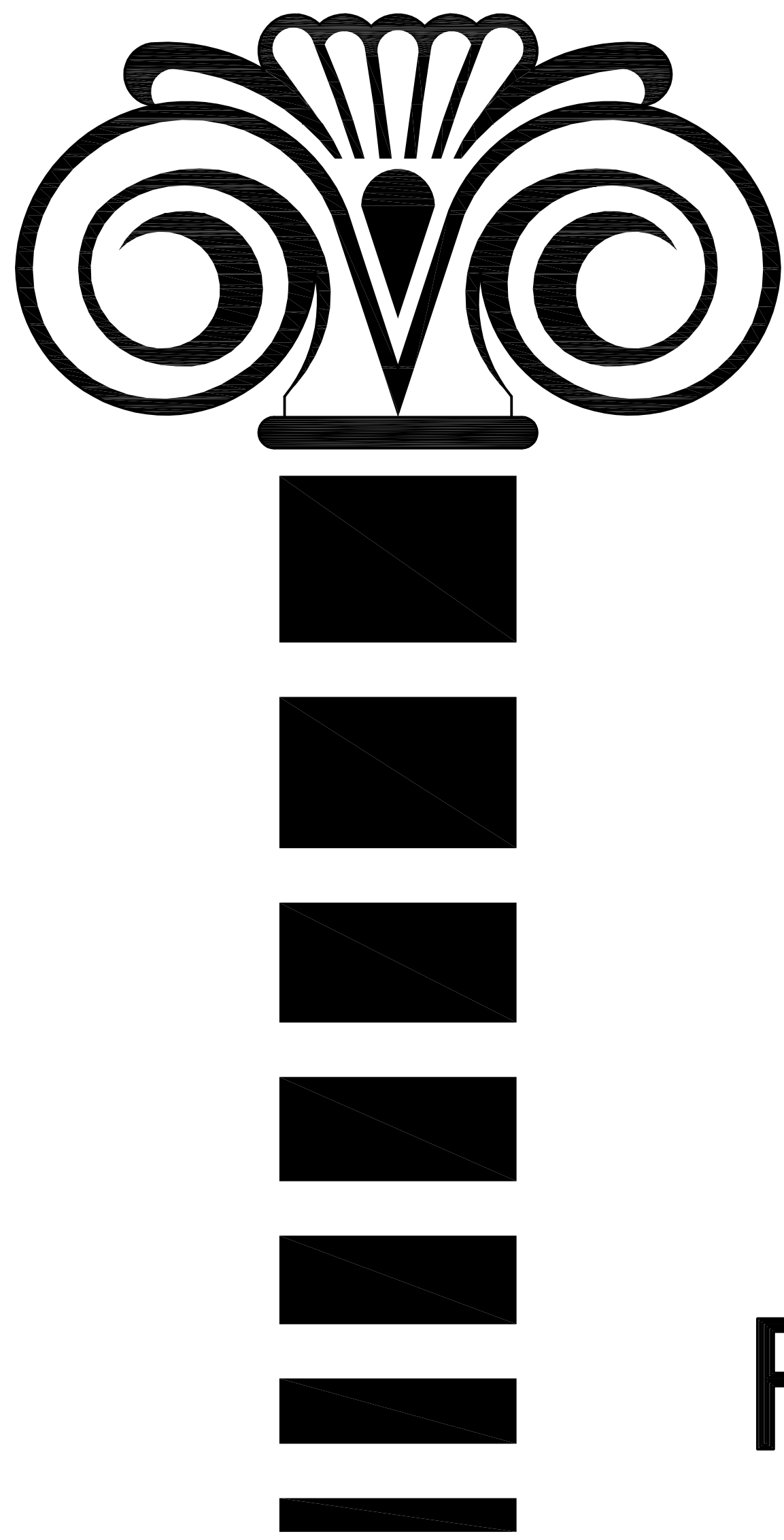
### Revised Sheets Attached: Cover Sheet

A1  
A1.1  
A1.2  
A2

### New Sheets Attached:

M-1  
M-2  
E-1  
E-2





# ROOF REPLACEMENT FOR Rockford School District #205

501 7th Street  
ROCKFORD, ILLINOIS



# FAIRVIEW EARLY CHILDHOOD CENTER

512 FAIRVIEW AVENUE  
ROCKFORD, ILLINOIS

RPS # 2126  
IFB No. 21-41

SHEET INDEX IFB 12-22		ABBREVIATIONS		SEALS	
SHEET	DESCRIPTION				
COVER SHEET					
A1	ROOF DEMOLITION PLAN & NOTES, ABBREVIATIONS, AND ROOF CORE CUTS				
A1.1	RE-ROOF PLAN & NOTES, AND ABBREVIATIONS				
A1.2	INSULATION SLOPE, WALKWAY PLAN, AND RAINFALL & GUTTER/DOWNSPOUT SIZES				
A2	ROOF DETAILS				
A3	PHOTO KEY PLAN AND PHOTOS				
A3.1	PHOTO KEY PLAN AND PHOTOS				
M-1	HVAC ROOF PLAN, EXHAUST AIR FAN SCHEDULE, VENTILATION SCHEDULE, & ROOF FAN DETAIL				
M-2	HVAC NOTES, HVAC SPECIFICATIONS, HVAC ABBREVIATIONS, AND HVAC SYMBOLS				
E-1	ELECTRICAL PLAN				
E-2	ELECTRICAL ABBREVIATIONS, ELECTRICAL SYMBOLS, AND ELECTRICAL SPECIFICATIONS				
ORIGINAL 1954 CONSTRUCTION DOCUMENTS, ORIGINAL BUILDING, PROJECT 11912, FOR REFERENCE ONLY					
SHEET 10 OF 14 - BUILDING CROSS SECTIONS					
SHEET 11 OF 14 - BUILDING CROSS SECTIONS					
SHEET 12 OF 14 - BUILDING CROSS SECTIONS					
SHEET 14 OF 14 - BUILDING CROSS SECTIONS					
1986 RE-ROOF CONSTRUCTION DOCUMENTS, PROJECT 8607A, FOR REFERENCE ONLY					
SHEET A2 OF FOUR					



DEMOLITION NOTES

GENERAL DEMOLITION NOTES

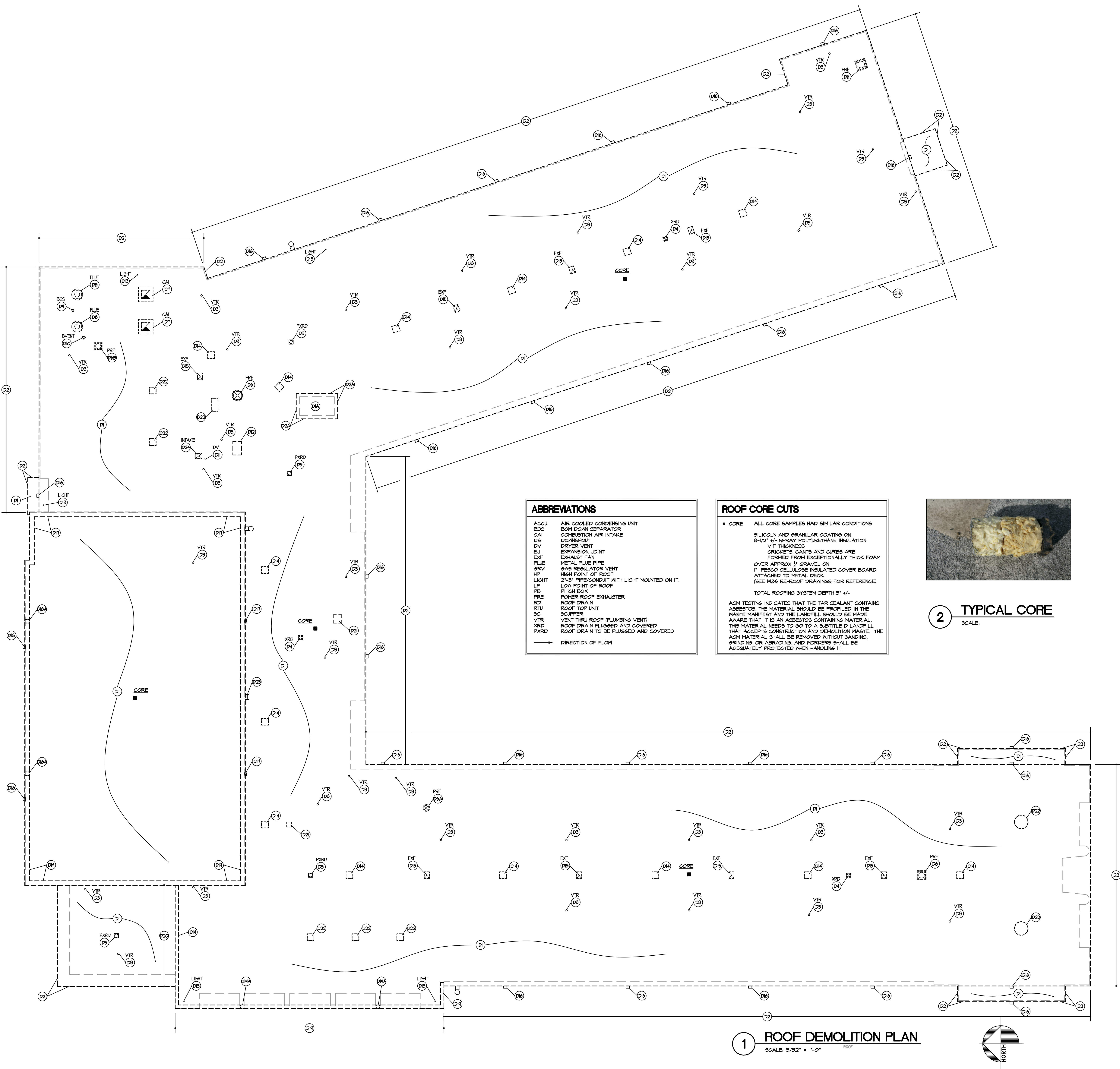
- THE ROOFING CONTRACTOR IS TO COORDINATE AND PROVIDE ALL DEMOLITION AND REMOVAL OF DEBRIS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.
- THE DEMOLITION PLAN IS PROVIDED AS AN AID IN PLANNING AND DOES NOT RELIEVE THE ROOFING CONTRACTOR'S RESPONSIBILITY IN FIELD VERIFYING THE EXISTING JOB SITE.
- PROVIDE ALL TEMPORARY SHORING AS REQUIRED TO SUPPORT STRUCTURES AND FINISHES TO REMAIN.
- ALL AREAS, FINISHES, AND ITEMS NOT REQUIRING DEMOLITION MUST BE PROTECTED DURING DEMOLITION AND CONSTRUCTION WORK.
- THIS DEMOLITION PLAN IS TO BE USED IN CONJUNCTION WITH ALL SHEETS IN THE DRAWING SET.
- ALL ITEMS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE ROOFING CONTRACTOR UNLESS NOTED OTHERWISE.
- PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY WITH THE OWNER ITEMS TO BE SALVAGED IN THE PROJECT. SALVAGED ITEMS SHALL BE REMOVED BY THE ROOFING CONTRACTOR AND TURNED OVER TO THE OWNER. ITEMS SHALL BE PLACED ON-SITE AT A ROOM OR IN AN AREA DESIGNATED BY THE OWNER.
- WHERE ITEMS ARE REMOVED, THE SUBSTRATE SHALL BE REPAIRED, PATCHED, CLEANED, ETC., TO A CONDITION SUITABLE TO RECEIVE NEW WORK AND/OR FINISHES.
- ITEMS TO BE DISPOSED OF SHALL BE REMOVED FROM THE SITE IN A TIMELY MANNER.
- WIRES, CONDUITS, AND PIPES ARE TO REMAIN DURING ROOF TEAR-OFF.
- POWER ROOF EXHAUSTS (PRE), SKYLIGHTS, VENTS, ETC. TO BE REMOVED TEMPORARILY TO EXTEND NEW MEMBRANE OVER EXISTING CURB, AND THEN RE-SET IN FLASHINGS.
- ALL PLUMBING VENTS AND AIR INTAKE/EXHAUSTS TO REMAIN UNO.

DEMOLITION PLAN NOTES

- D1 REMOVE EXISTING GRANULATED SILICON COATING OVER APPROX. 3.5" FOAMED IN-PLACE INSULATION OVER EXISTING 1/4" BUILT-UP ROOF ON 1" INSULATION. TOTAL IN PLACE ROOFING THICKNESS APPROX. 5". THE EXISTING TAR HAS BEEN SAMPLED AND CONTAINS ASBESTOS. THE ROOFING CONTRACTOR IS TO TAKE CARE TO REMOVE AND FOLLOW ALL APPLICABLE REGULATIONS FOR SAFE REMOVAL AND DISPOSAL. SEE ALSO CORE SAMPLES.
- D1A AT PENHOUSE IT IS NOT NECESSARY TO REMOVE ALL EXISTING ROOFINGS. REMOVE ENOUGH OF THE SPRAY FOAM SUCH THAT NEW INSULATION CAN BE ATTACHED THAT WILL PROVIDE A SMOOTH SLOPED SURFACE FOR THE NEW MEMBRANE.
- D2 CAREFULLY REMOVE UPPERMOST METAL ROOF EDGE/FASCIA TO ALLOW FOR REMOVAL OF ROOF MEMBRANE. MAJORITY OF 24" TALL FASCIA TO REMAIN. TAKE CARE TO NOT DAMAGE EXISTING MOOD BLOCKING FOR REUSE. SEE DETAIL 1, SHEET A2.
- D2A EXISTING METAL FASCIA TO REMAIN.
- D3 EXISTING PLUMBING VENT THRU ROOF (VTR) TO REMAIN. REMOVE ALL PRIOR, EXISTING, UNDERLYING FLASHING/BOOT AND CLEAN PIPE. PREPARE PIPE AS REQUIRED FOR RAISING.
- D4 IT IS BELIEVED THERE IS AN EXISTING, COVERED AND PLUGGED, ROOF DRAIN (XRD) IN THIS GENERAL LOCATION. MAINTAIN PLUS. PLACE A NEW MTL. PAN OVER THE SUMP AND MAINTAIN THE DRAIN ABANDONED IN-PLACE. TAKE GREAT CARE TO NOT DISTURB ANY OF THE PIPING OR INSULATION AS IT IS ACM.
- D5 EXISTING ROOF DRAIN (PXRD) TO BE ABANDONED IN PLACE. REMOVE STRAINER. PLUG EXISTING ROOF DRAIN PIPE BELOW DRAIN ASSEMBLY. PLACE A NEW MTL. PAN OVER THE SUMP AND MAINTAIN THE DRAIN ABANDONED IN-PLACE. SEE DETAIL 4, SHEET A2. TAKE GREAT CARE TO NOT DISTURB ANY OF THE PIPING OR INSULATION AS IT IS ACM.
- D6 EXISTING POWER ROOF EXHAUST (PRE). REMOVE FAN UNIT, AND DISPOSE OF. REMOVE SPRAY FOAM INSULATION AND GRANULAR COATING FROM SIDES OF CURB/UNIT. REMOVE FLASHING/COUNTER FLASHING FROM EXISTING CURB TO REMAIN.
- D6A EXISTING (PRE). THIS APPEARS TO BE A ROUND PENETRATION THRU THE ROOF. REMOVE EXISTING FAN UNIT, AND DISPOSE OF. MODIFY EXISTING OPENING THRU METAL DECK TO ACCOMMODATE NEW PREFABRICATED, STRAIGHT-SIDED, LEAKPROOF ROOF CURB.
- D6B EXISTING POWER ROOF EXHAUST (PRE) TO REMAIN. DETACH UNIT TO INSTALL NEW FLASHING, AND ADDRESS CURB IF REQUIRED. REMOVE GRANULAR ROLLED ROOFING FROM SIDES OF CURB/UNIT. REMOVE FLASHING/COUNTER FLASHING FROM CURB.
- D7 EXISTING COMBUSTION AIR INTAKE (CAI) TO REMAIN. DETACH UNIT TO INSTALL NEW FLASHING, AND ADDRESS CURB IF REQUIRED. REMOVE ROLLED GRANULAR ROOFING FROM SIDES OF CURB.
- D8 EXISTING BOILER FLUE (FLUE) TO REMAIN. DETACH COLLAR. REMOVE FLASHING. REMOVE ROLLED GRANULAR ROOFING FROM SIDES OF CURB AND PREPARE FOR NEW ROOFING MEMBRANE.
- D8 EXISTING BLOW DOWN SEPARATOR (BDS) PIPE THRU ROOF. REMOVE EXISTING COLLAR. REMOVE EXISTING GRANULAR ROOFING FROM SIDES OF PIPE AND PREPARE FOR NEW MEMBRANE FLASHING BOOT.
- D10 EXISTING EVENT TO REMAIN. DETACH COLLAR. REMOVE EXISTING COLLAR. REMOVE SPRAY FOAM INSULATION AND GRANULAR COATING FROM SIDES OF PIPE TO REMAIN.
- D11 EXISTING DRYER VENT (DV) TO REMAIN. DETACH COLLAR. REMOVE EXISTING COLLAR. REMOVE SPRAY FOAM INSULATION AND GRANULAR COATING FROM SIDES OF PIPE TO REMAIN.
- D12 REMOVE EXISTING ROOF HATCH AND DISPOSE OF. REMOVE SPRAY FOAM INSULATION AND GRANULAR COATING FROM SIDES OF CURB TO REMAIN. SECURE AND PREPARE OPENING FOR NEW REPLACEMENT ROOF HATCH. REMOVE LADDER AND DISPOSE OF.
- D13 EXISTING LIGHT POST TO REMAIN. REMOVE ALL INSULATION FROM AROUND POST. THERE IS SIGNIFICANT INSULATION AT SOME LOCATIONS. REMOVE INSULATION AND GRANULAR COATING FROM SIDES OF POST TO REMAIN AS NECESSARY TO APPLY NEW MEMBRANE BOOT FLASHING.
- D14 EXISTING SKYLIGHT. REMOVE EXISTING PLASTIC SKYLIGHT UNIT AND DISPOSE OF. UNIT TO BE REPLACED. REMOVE EXISTING FLASHING. REMOVE SPRAY FOAM INSULATION AND GRANULAR COATING FROM SIDES OF CURB TO REMAIN. MAINTAIN WATER-TIGHT CONDITION BY INSTALLING NEW SKYLIGHT PRIOR TO END OF WORK DAY. SEE DETAIL 6, SHEET A2.
- D15 EXISTING EXHAUST FAN (EXF), REMOVE FAN UNIT AND DISPOSE OF. REMOVE EXISTING FLASHING. REMOVE SPRAY FOAM INSULATION AND GRANULAR COATING FROM SIDES OF CURB TO REMAIN.
- D16 REMOVE AND DISPOSE OF EXISTING SCUPPER AND ASSOCIATED BLOCKING AND FLASHING TO ACCOMMODATE NEW ROOF EDGE CONDITION. SEE DETAIL FROM FOAM RE-ROOF ILLUSTRATING HOW SCUPPER WAS ADDED.
- D17 REMOVE EXISTING THRU WALL SCUPPER FLASHING/BOX. REMOVE EXISTING COLLECTION BOX. REMOVE DOWNSPOUT. DISPOSE OF ALL. REMOVE SPRAY INSULATION AND GRANULAR COATING FROM INSIDE WALL FACES OF THRU WALL SCUPPER. CUT NEW 1" SHAPED SCUPPER OPENING IN EXISTING WALL. PREPARE OPENING TO REMAIN FOR NEW SCUPPER AND DOWNSPOUT.
- D18 REMOVE EXISTING THRU WALL SCUPPER FLASHING/BOX AND DISPOSE OF. PREPARE OPENING TO REMAIN FOR NEW MASONRY INFILL.
- D18A CUT NEW 1" SHAPED SCUPPER OPENING IN EXISTING WALL. TAKE CARE TO SALVAGE EXISTING FACEBRICK FOR RE-USE IN 18 ABOVE.
- D19 EXISTING PARAPET WALL WITH STONE COPING. REMOVE SPRAY INSULATION AND GRANULAR COATING FROM AGAINST PARAPET WALL AS NECESSARY FOR INSTALLATION OF NEW ROOFING MEMBRANE. VIF QUANTITY OF SPRAY FOAM AS IT IS THICK/DEEP IN MANY LOCATIONS. PREPARE TOP OF STONES TO REMAIN FOR NEW METAL COPING SYSTEM.
- D19A CUT NEW 1" SHAPED SCUPPER OPENING IN EXISTING WALL.
- D20 REMOVE RUBBER MEMBRANE, ADHESIVE APPLIED, FROM COPING STONE AND MASONRY, AND DISPOSE OF. PREPARE TOP OF STONES TO REMAIN FOR NEW METAL COPING SYSTEM.
- D21 RAISED AREA ON ROOF. IT IS BELIEVED THIS IS AN ABANDONED ROOF CURB FROM AN EXHAUST FAN BELOW. INCLUDE THIS ASSUMPTION IN THE BASE BID. INCLUDE IN THE BASE BID THE REMOVAL OF THE CURB STRUCTURE AND INFILL OF THE OPENING WITH NEW METAL DECK FLUSH WITH THE EXISTING DECK TO REMAIN.
- D22 REMOVE EXISTING SKYLIGHT AND ENTIRE CURB DOWN TO METAL DECK. PROVIDE NEW METAL DECK OVER EXISTING OPENING. PREPARE FOR NEW INSULATION AND ROOFING TO COMPLETELY COVER. NO WORK ON INTERIOR UNDER THIS CONTRACT.
- D23 REMOVE EXISTING ROOF LADDER AND DISPOSE OF. RE-USE ANCHORS FOR NEW LADDER TO GREATEST EXTENT POSSIBLE. REMOVE NON-USED ANCHORS AND MORTAR HOLES.
- D24 EXISTING AIR INTAKE. DETACH UNIT AS REQUIRED TO EXTEND CURB, AND INSTALL ROOFING.

SCOPE OF WORK

- REMOVE TPO MEMBRANE AND ASSOCIATED TERMINATIONS/FLASHING AS REQUIRED, AND WHERE INDICATED IN THE DEMOLITION DETAILS.
- REMOVE SPRAY FOAM WITH SILICONE GRANULAR RE-ROOF OVER TAR AND GRAVEL ROOF SYSTEM.
- REMOVE BUILT-UP ROOFING, DOWN TO METAL DECK.
- AS INDICATED REMOVE AND REPLACE METAL CAPS AND FLASHINGS.
- REMOVE AND REPLACE ALL DAMAGED, MET, OR ROTTEN MOOD NAILERS, BLOCKING, SHIMS.
- REMOVE AND REPLACE ALL DAMAGED FLASHINGS.
- INSTALL/PROVIDE NEW SUMPS AT EXISTING SCUPPERS. CREATE NEW SCUPPERS.
- REMOVE AND REPLACE SKYLIGHTS TO REMAIN. REMOVE AND COVER SKYLIGHTS TO BE ABANDONED.
- REMOVE AND REPLACE ALL SCUPPERS / COLLECTOR BOXES, GUTTERS, DOWNSPOUTS, METAL COPINGS, AND METAL ROOF EDGE.
- PROVIDE NEW PERIMETER GUTTERS AND ASSOCIATED DOWNSPOUTS.
- PROVIDE NEW METAL COPING OVER EXISTING STONE COPINGS.
- ROOF DIMENSIONS ARE TAKEN FROM ORIGINAL DRAWINGS. CONTRACTOR SHALL VERIFY ON-SITE.
- ALL OPENINGS THRU ROOFS, INCLUDING STACKS, PLUMBING VENTS, EXHAUSTERS, HVAC EQUIPMENT, DRAINS, PIPES, CONDUITS, WIRES, ETC., ARE SHOWN IN APPROXIMATE QUANTITY AND LOCATION ONLY. CONTRACTOR SHALL VERIFY ALL ON-SITE.

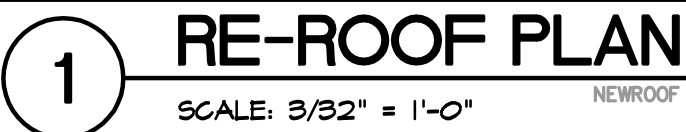




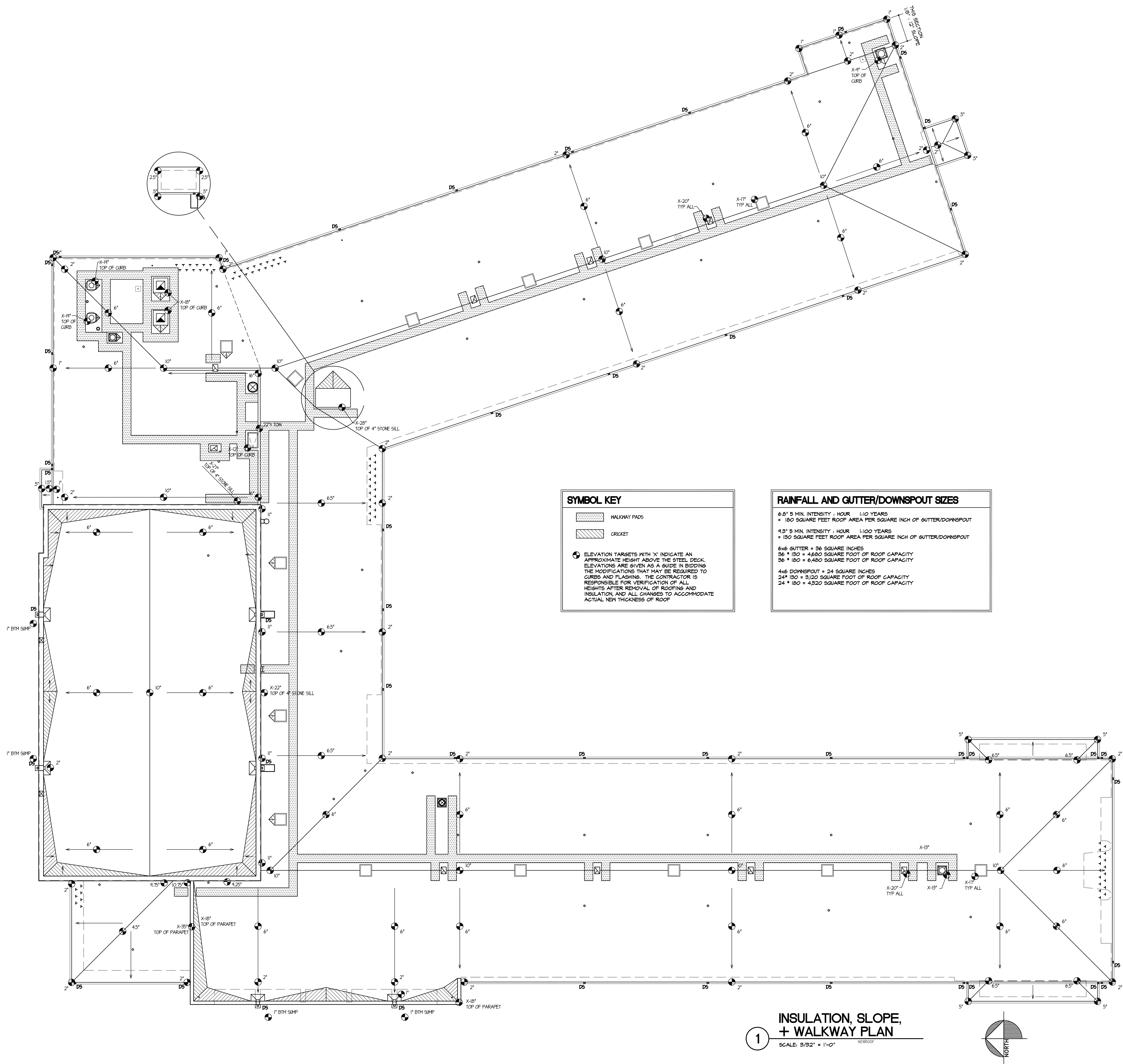
### GENERAL RENOVATION NOTES

RE-ROOF PLAN NOTES:

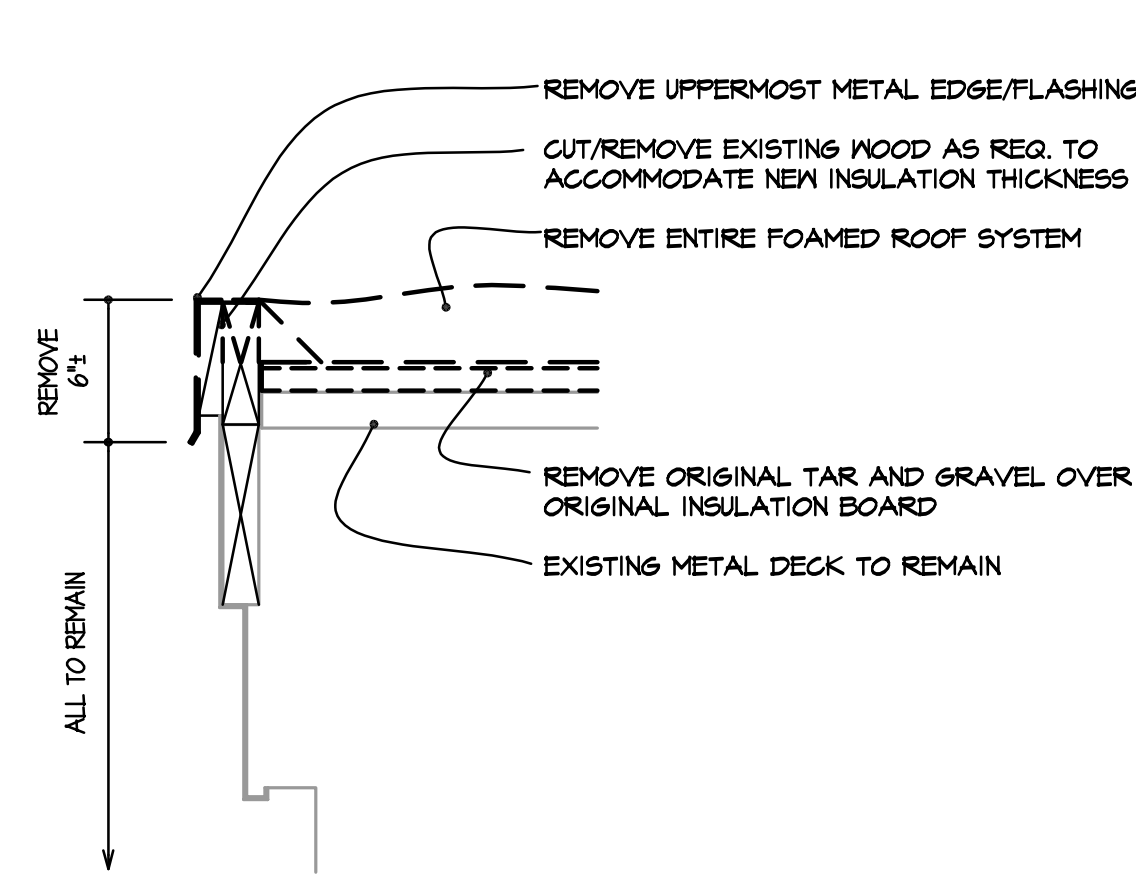
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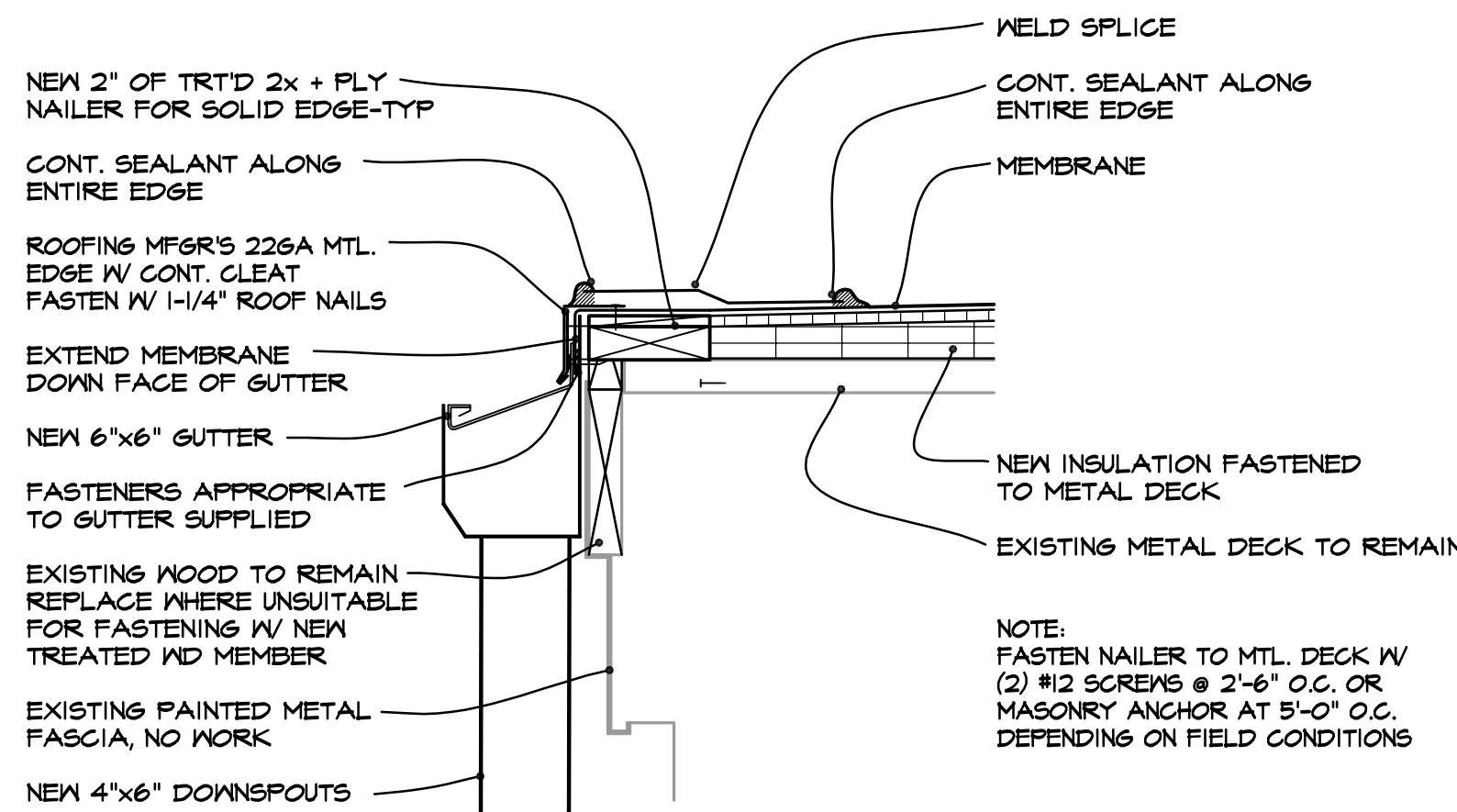




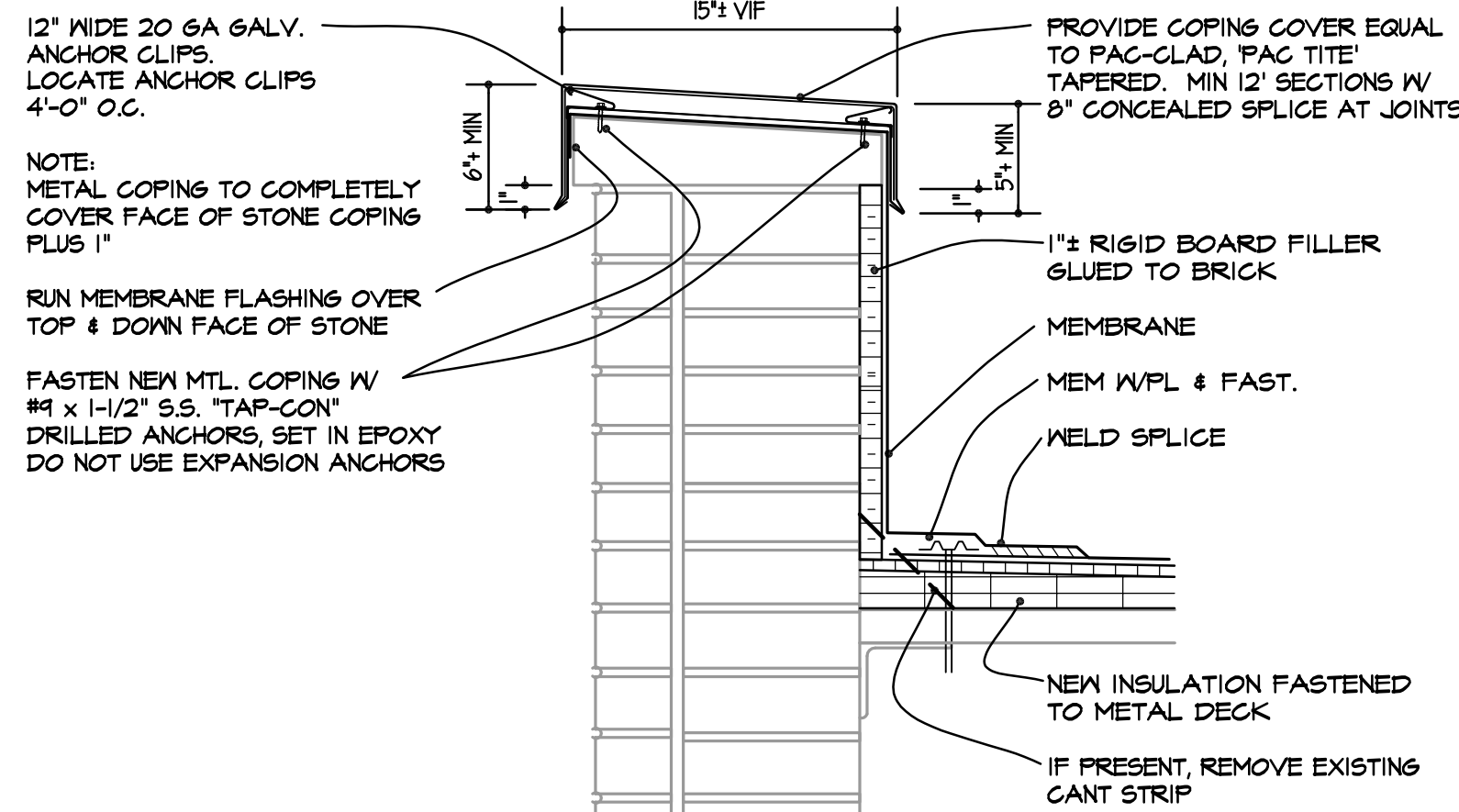




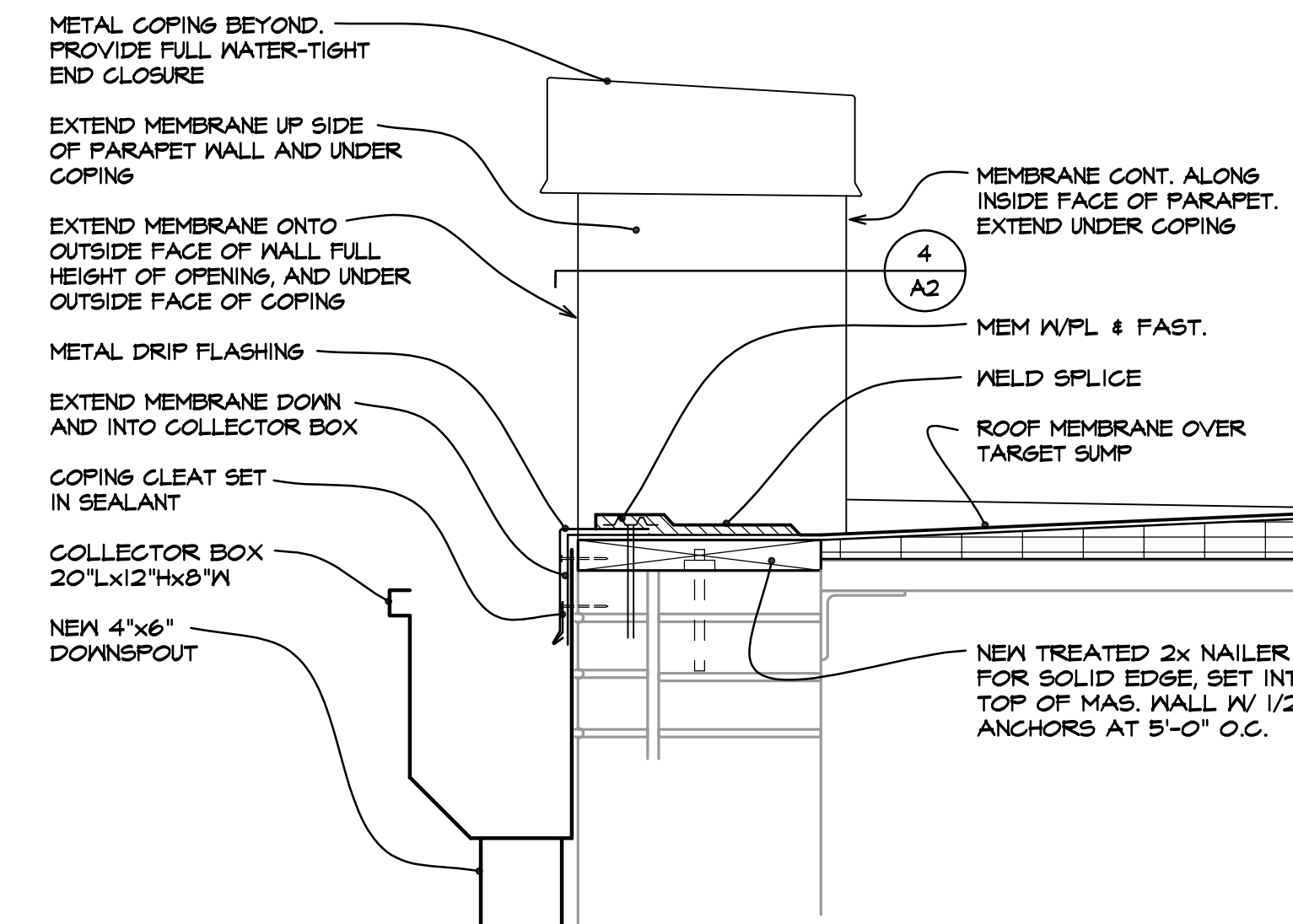
1 ROOF EDGE AT GUTTER DEMOLITION  
SCALE: 1-1/2" = 1'-0"



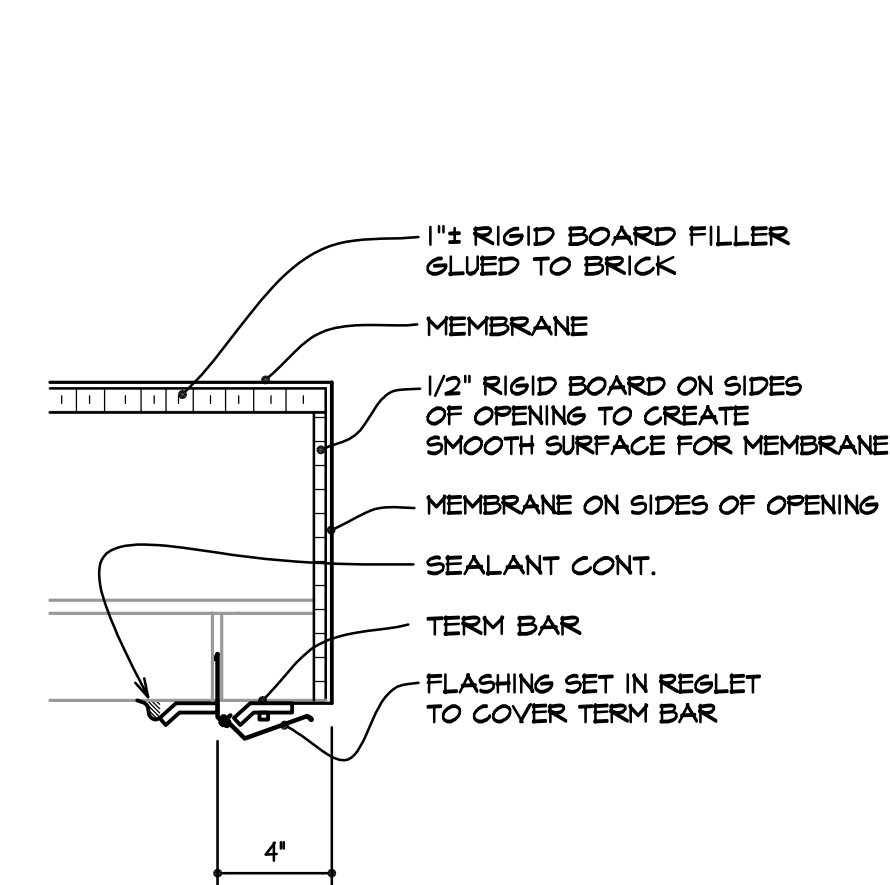
1 ROOF EDGE AT GUTTER  
SCALE: 1-1/2" = 1'-0"



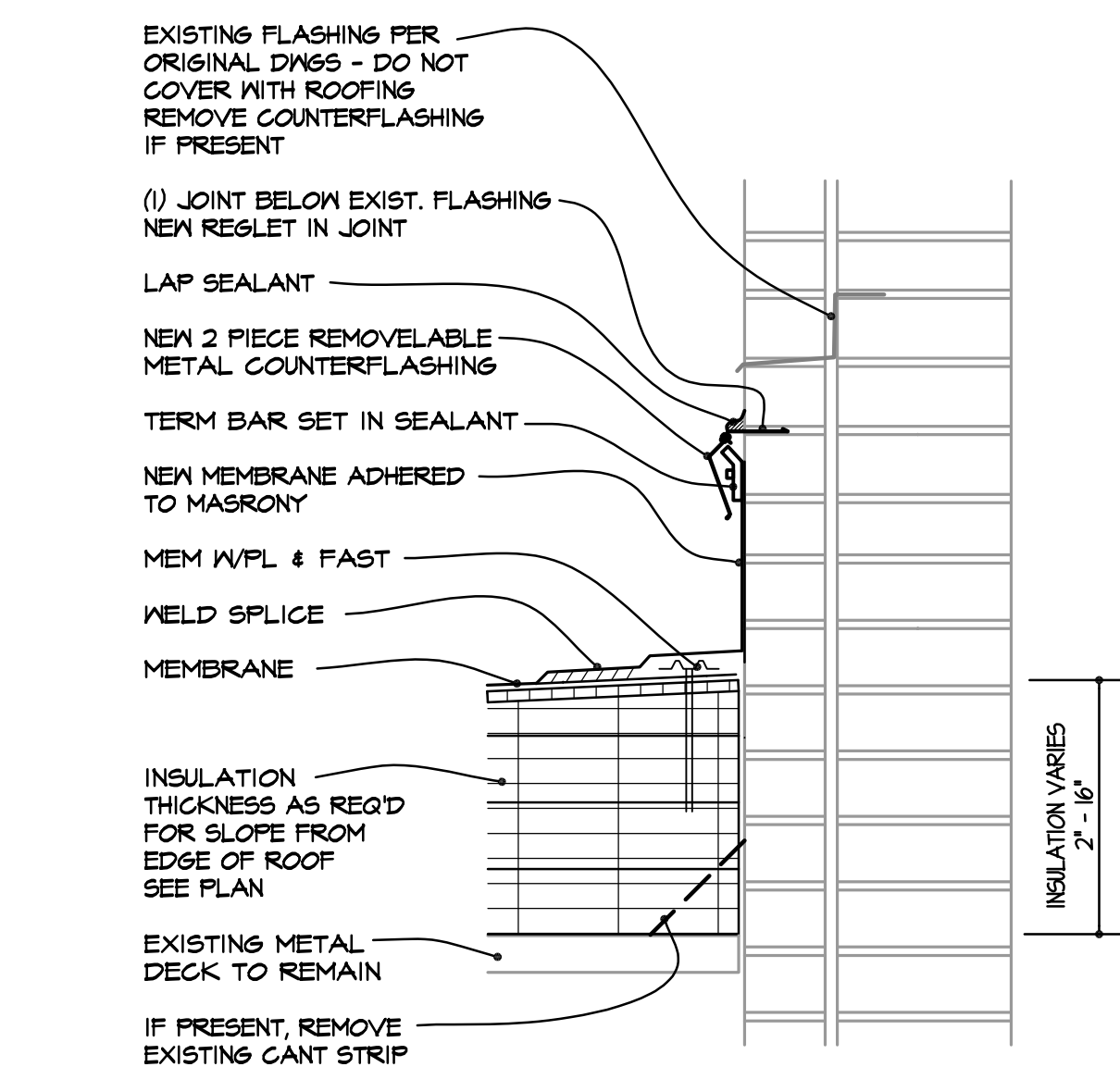
2 ROOF EDGE AT PARAPET  
SCALE: 1-1/2" = 1'-0"



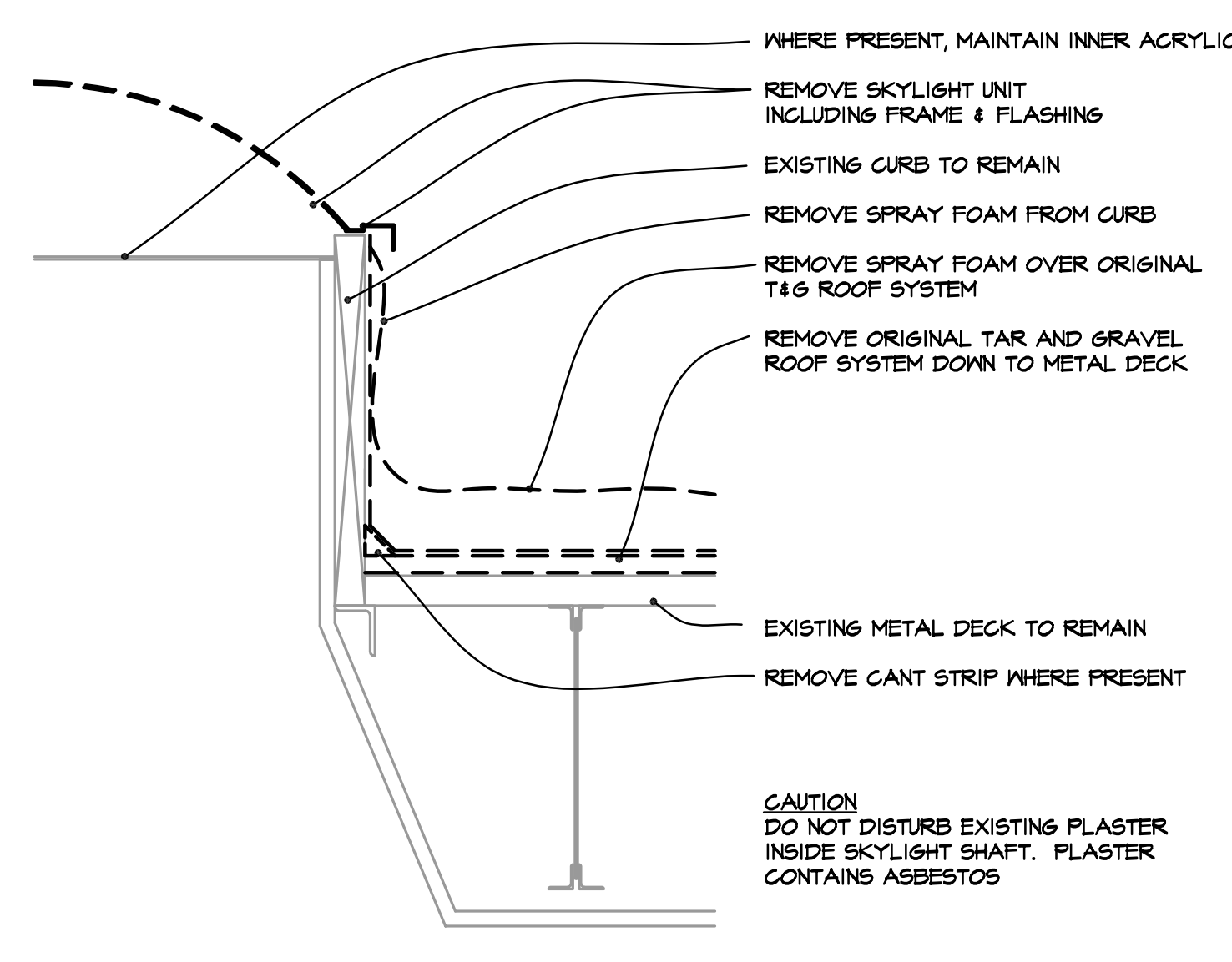
3 SCUPPER SECTION  
SCALE: 1-1/2" = 1'-0"



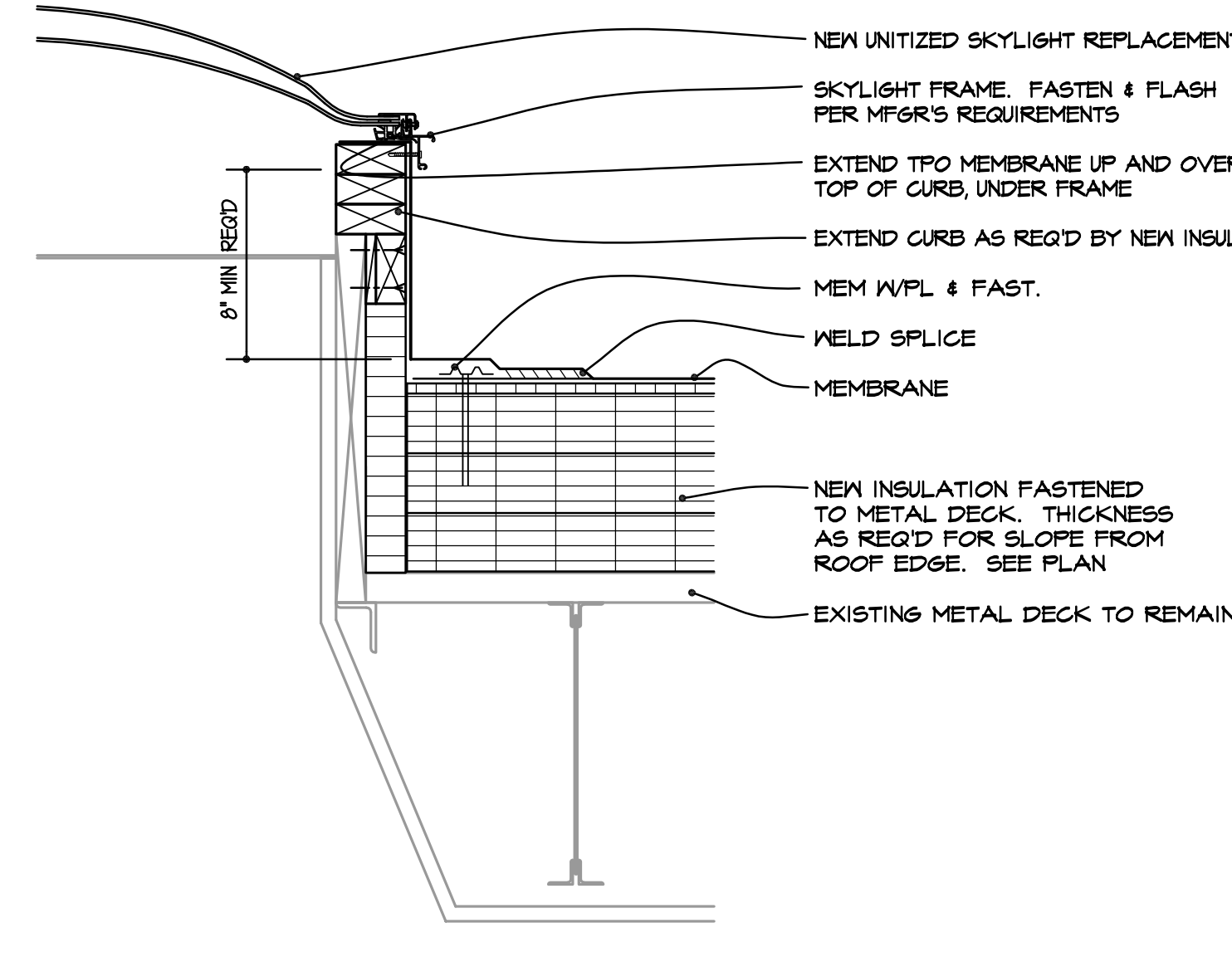
4 SCUPPER SECTION  
SCALE: 1-1/2" = 1'-0"



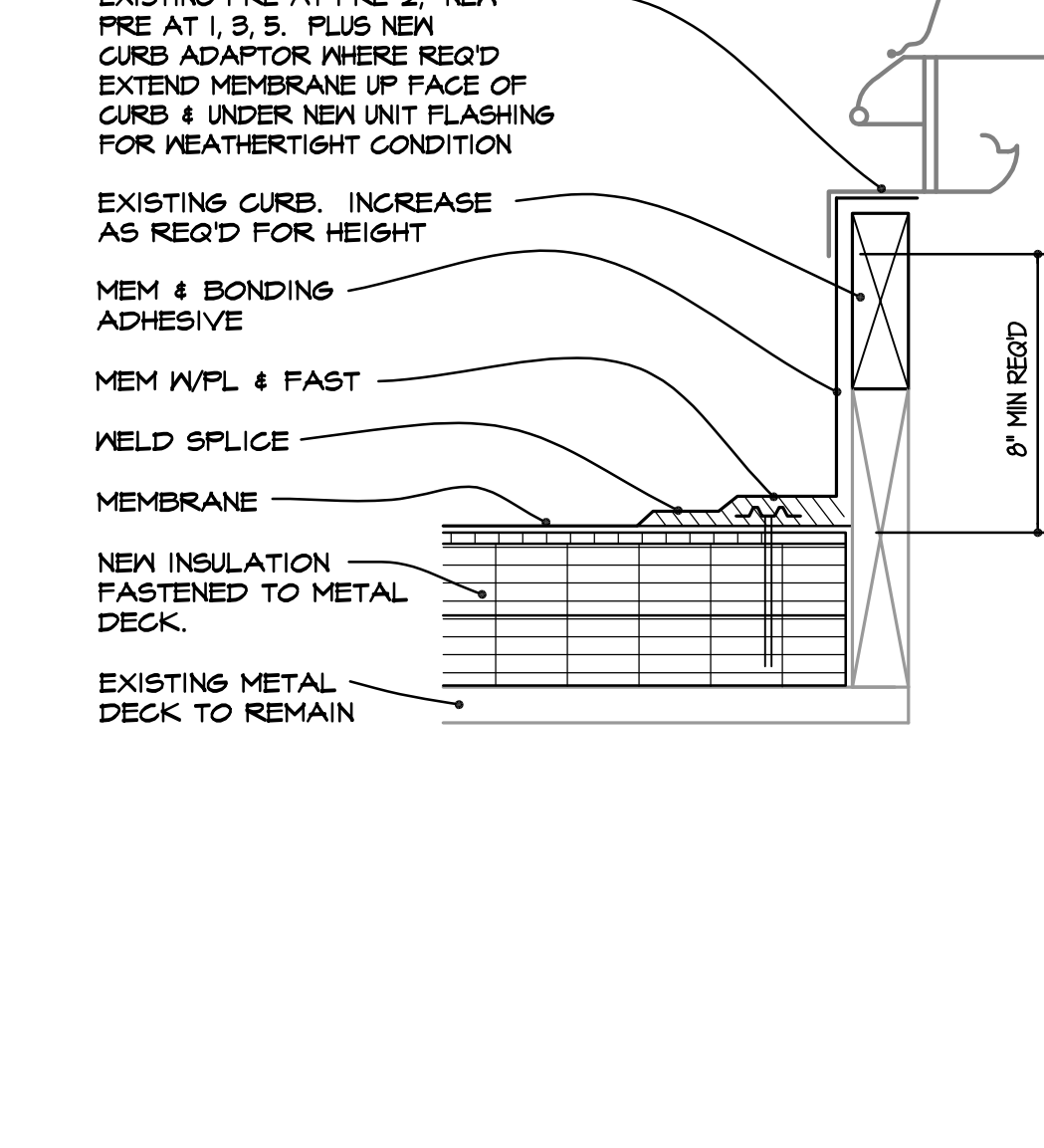
5 ROOF TO WALL TRANSITION  
SCALE: 1-1/2" = 1'-0"



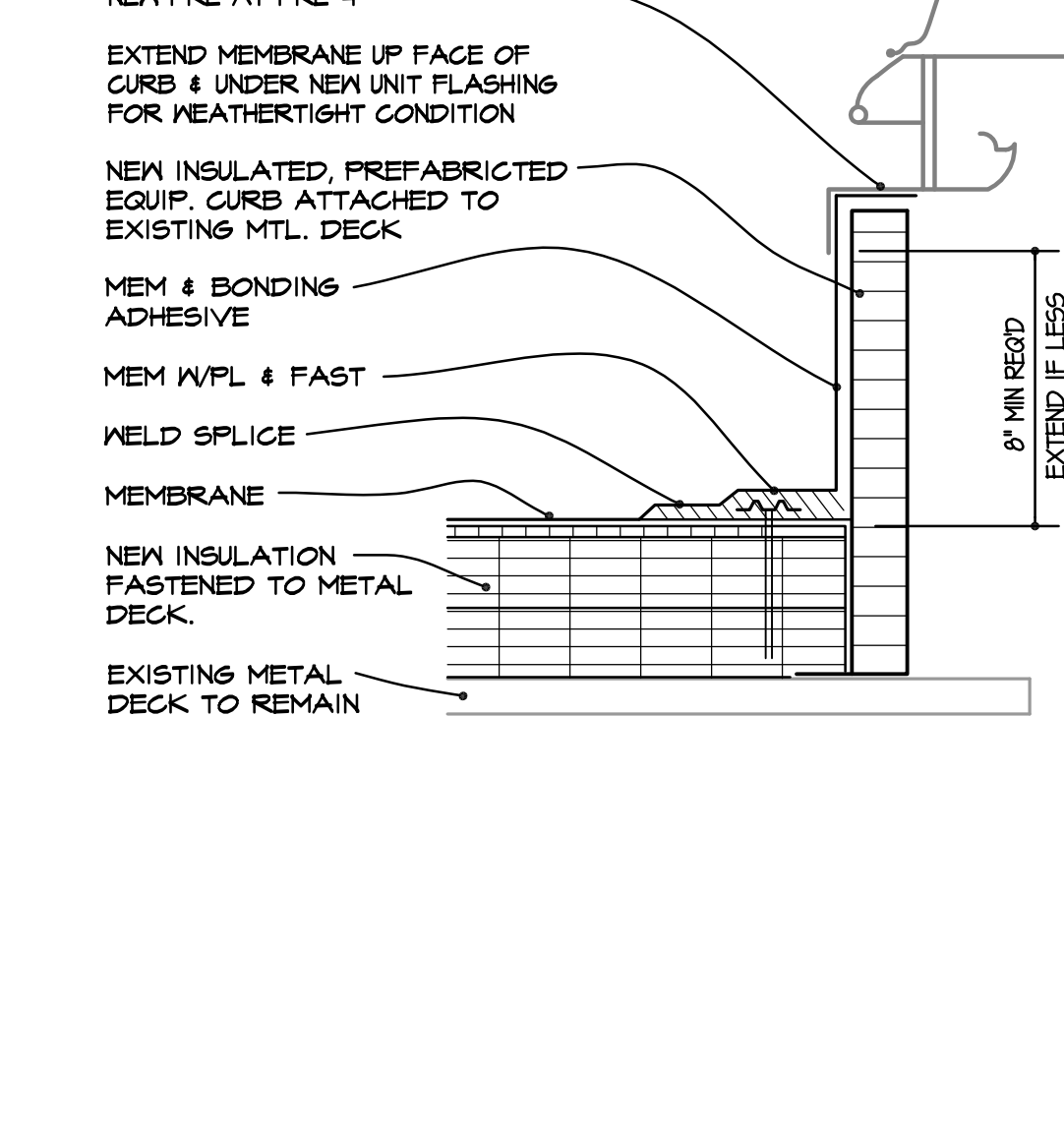
6 SKYLIGHT DEMOLITION  
SCALE: 1-1/2" = 1'-0"



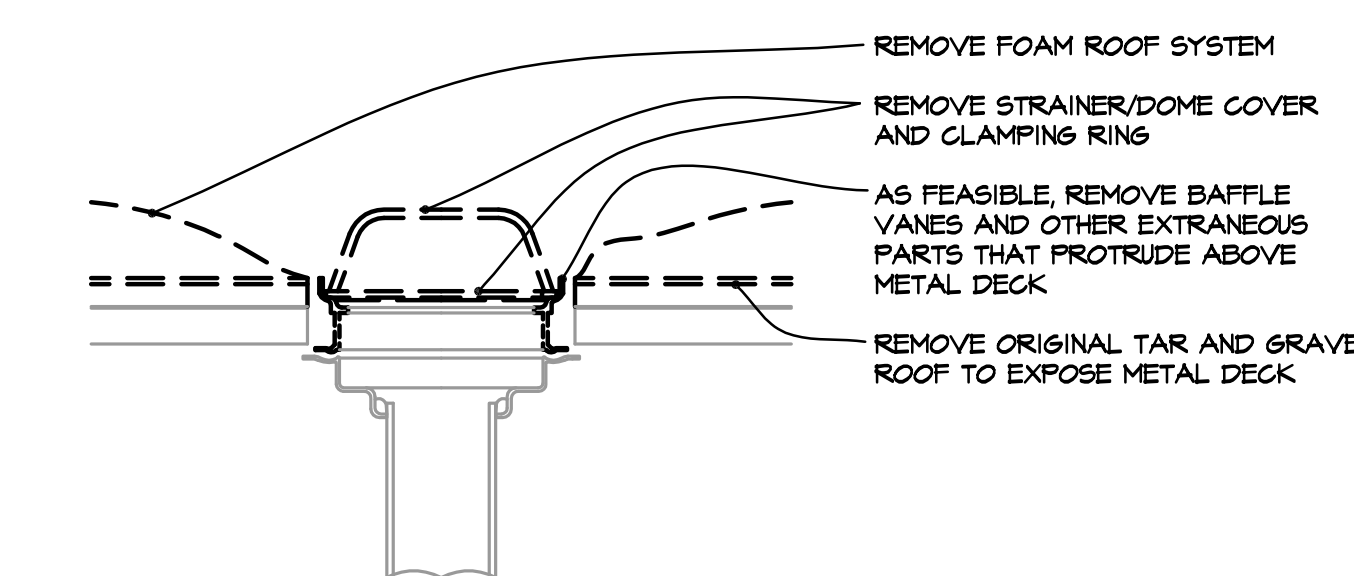
6 NEW SKYLIGHT  
SCALE: 1-1/2" = 1'-0"



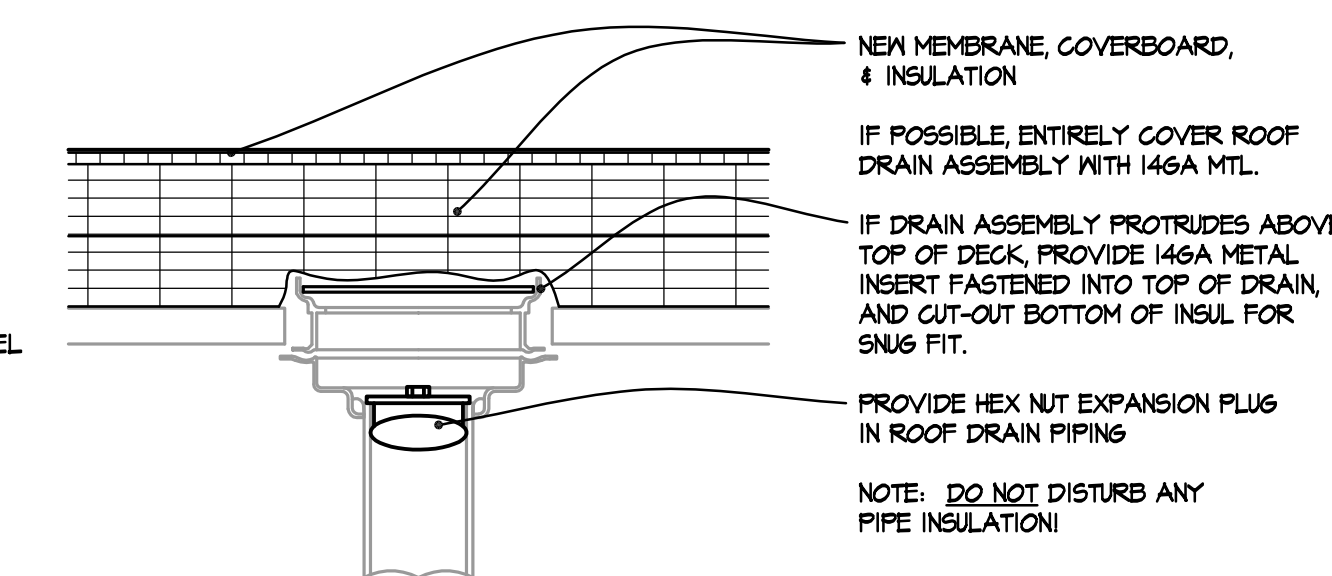
7 EXF, PRE-1, 2, 3, 5 CAI AND FLU  
SCALE: 1-1/2" = 1'-0"



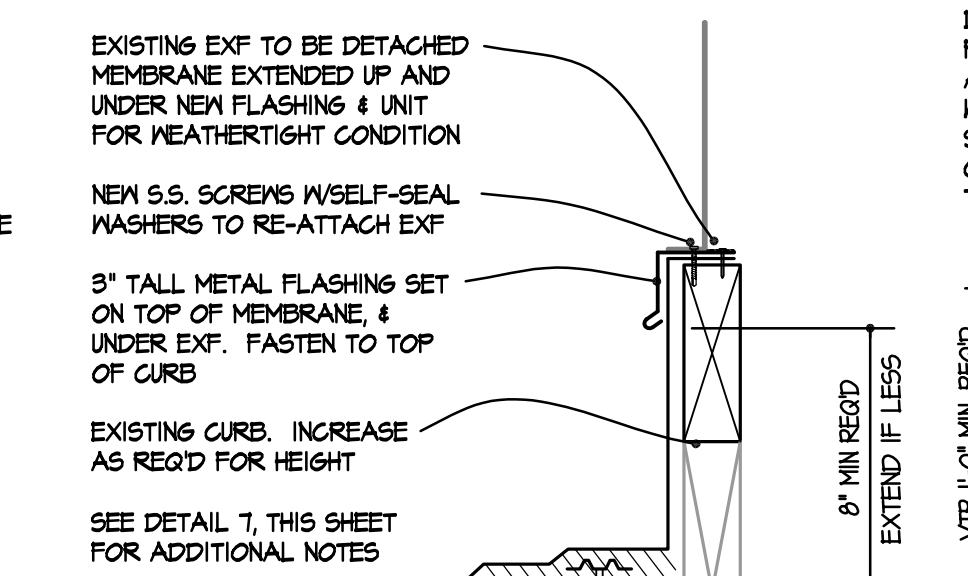
8 PRE-4  
SCALE: 1-1/2" = 1'-0"



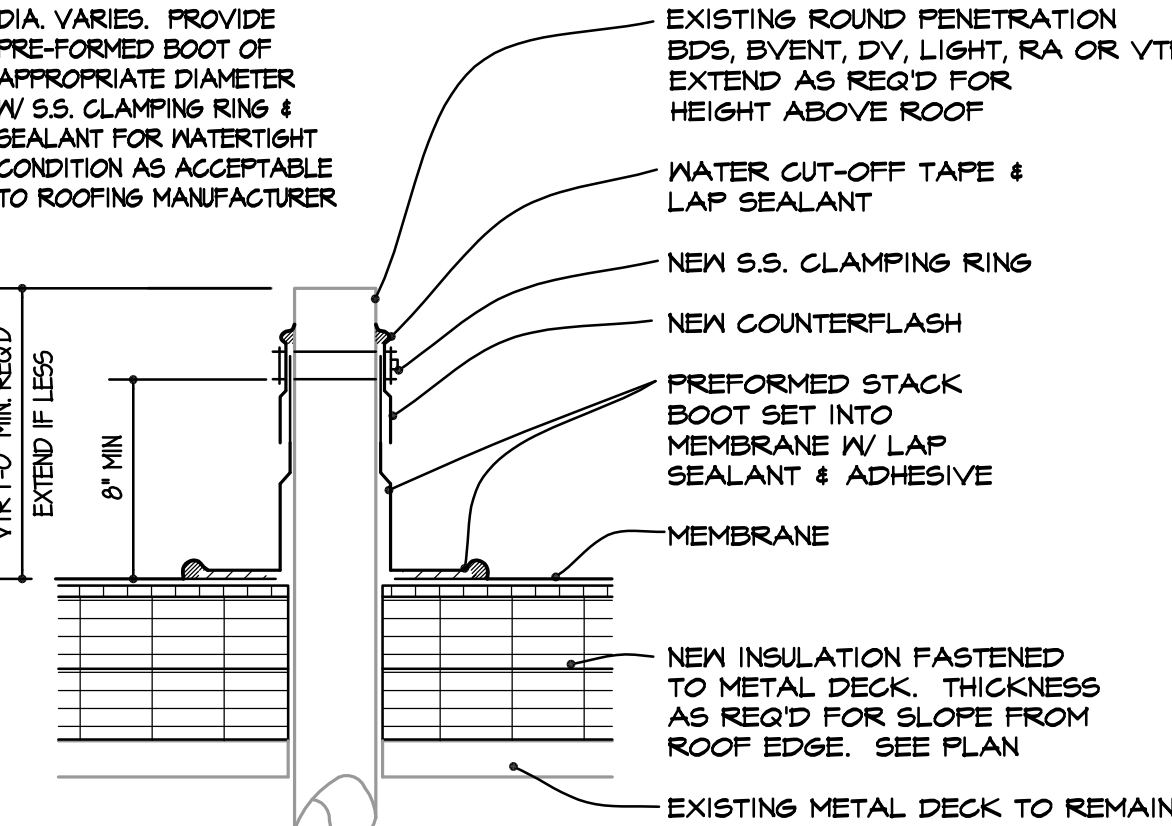
9 ROOF DRAIN DEMOLITION (PXR)D  
SCALE: 1-1/2" = 1'-0"



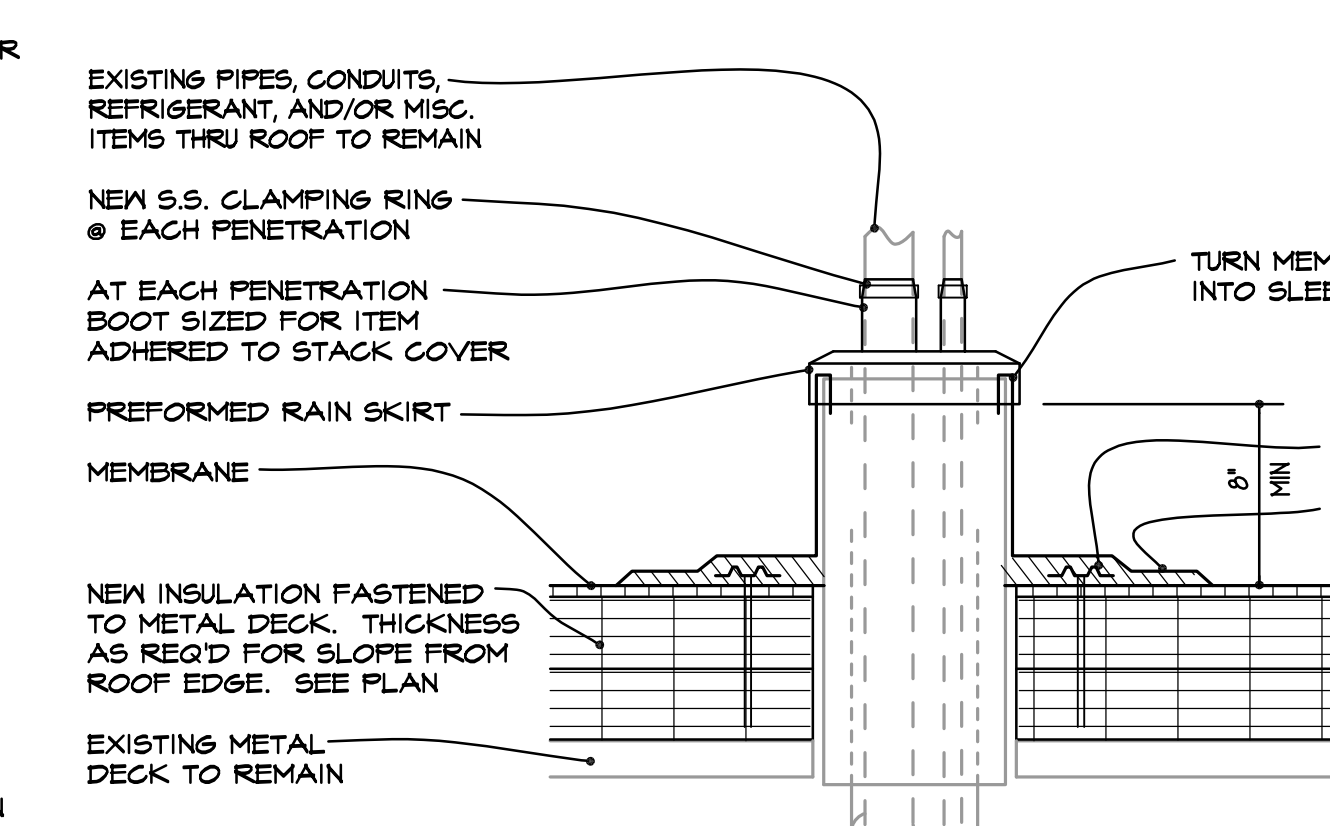
9 ROOF DRAIN ABANDONED (PXR)D  
SCALE: 1-1/2" = 1'-0"



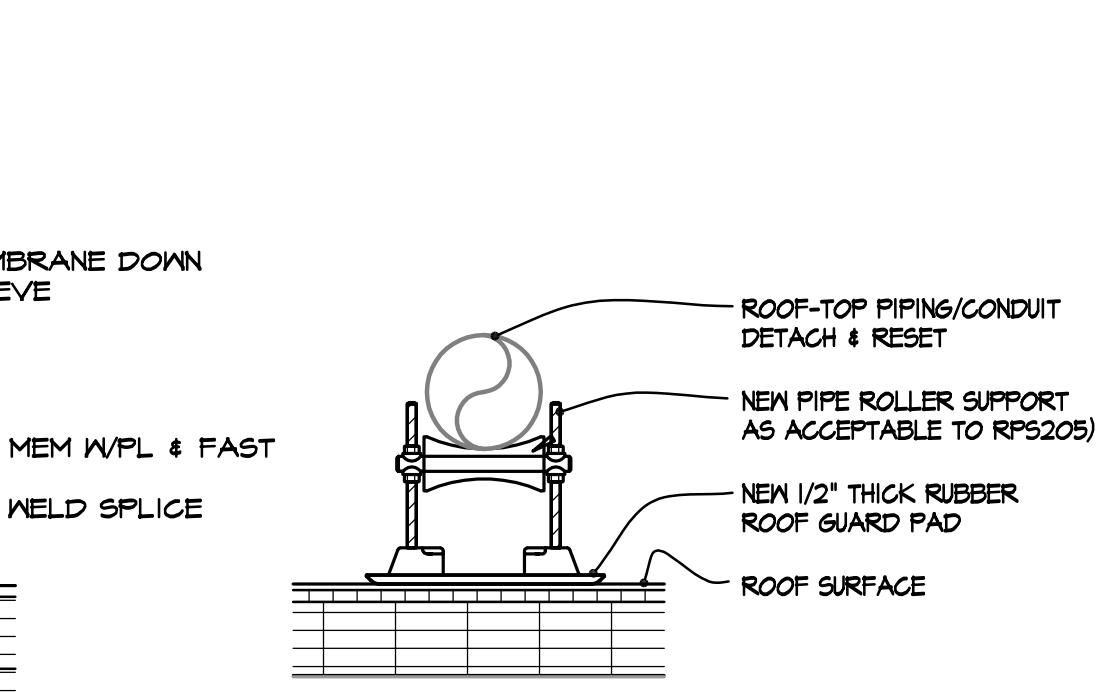
10 AIR INTAKE  
SCALE: 1-1/2" = 1'-0"



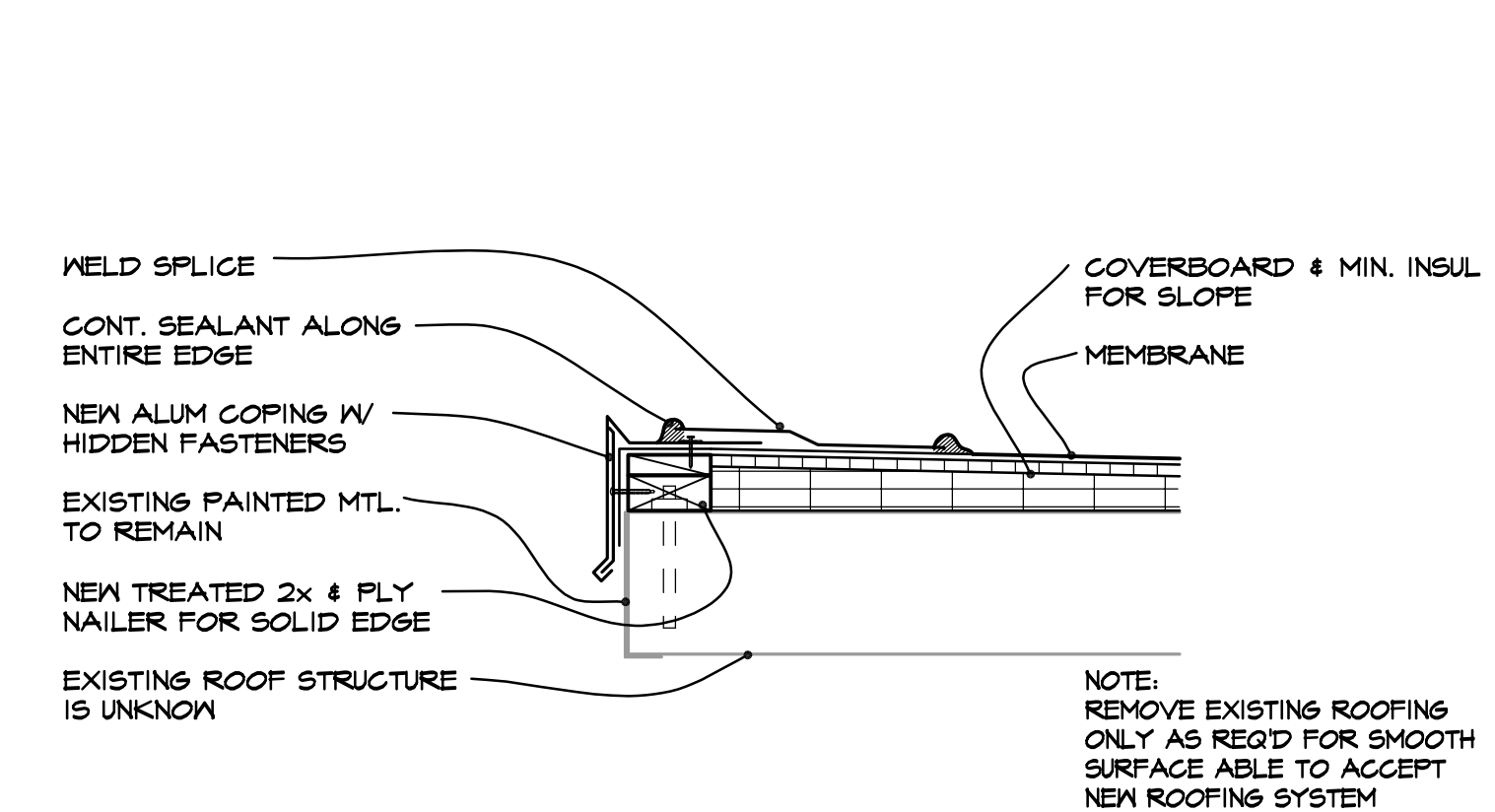
11 SINGLE ROUND PENETRATION  
SCALE: 1-1/2" = 1'-0"



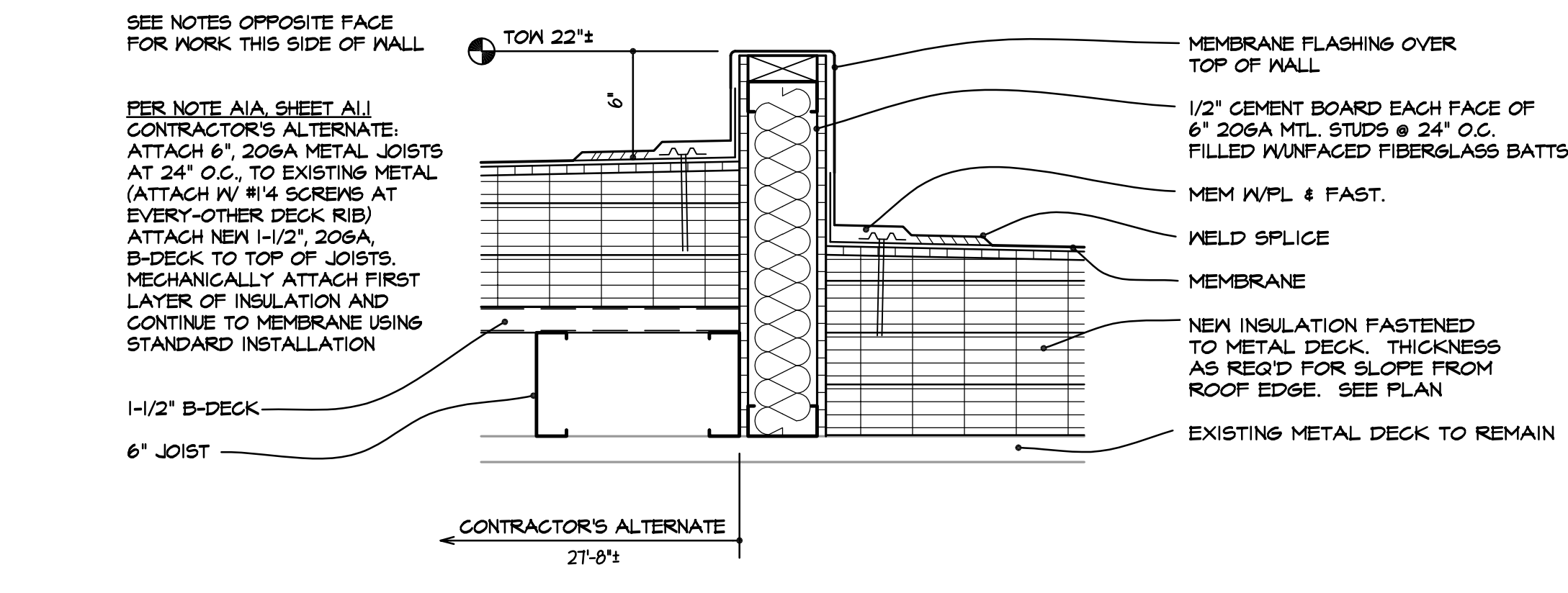
12 PITCH BOX  
SCALE: 1-1/2" = 1'-0"



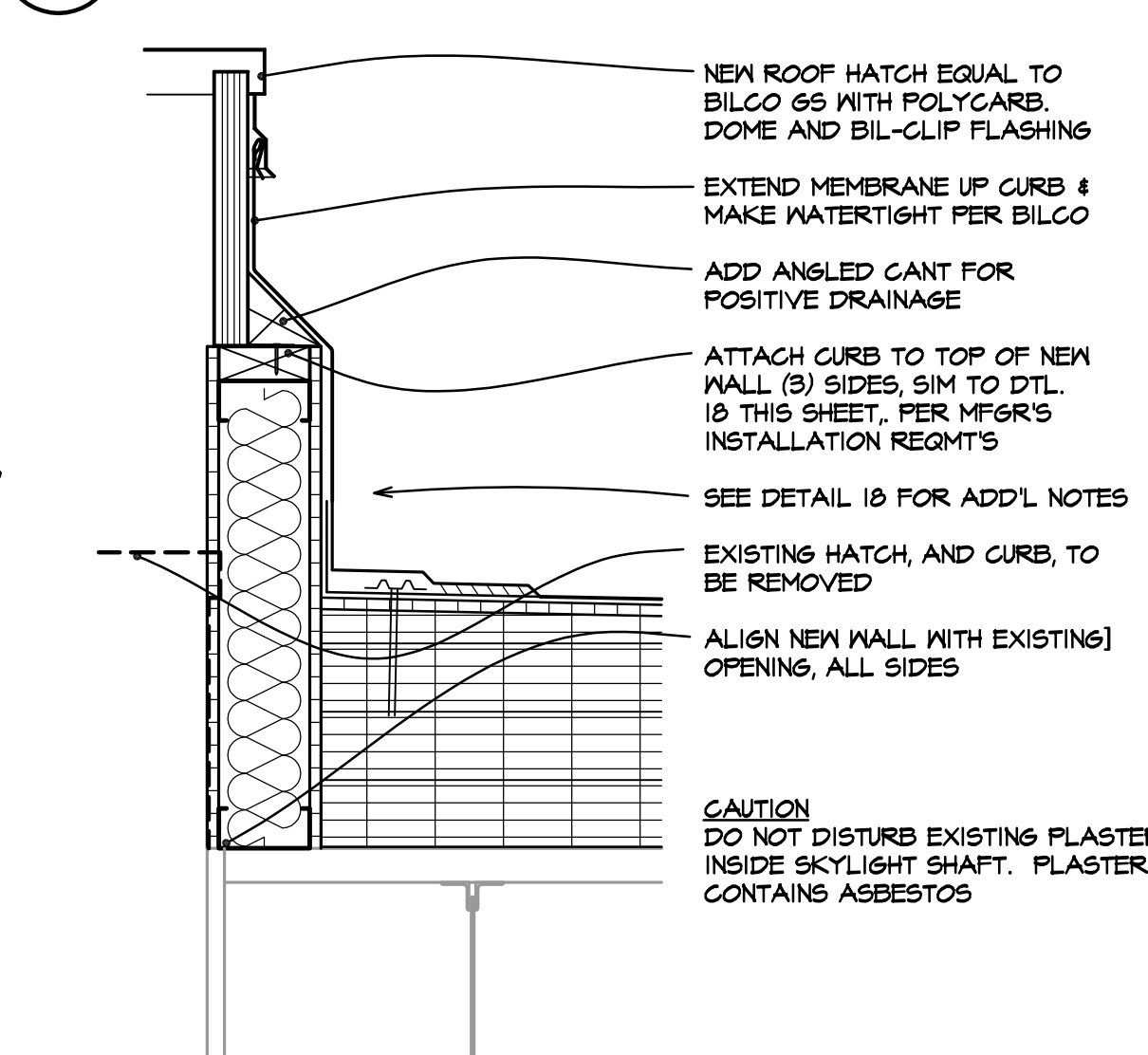
16 PIPE SUPPORT  
SCALE: 1-1/2" = 1'-0"



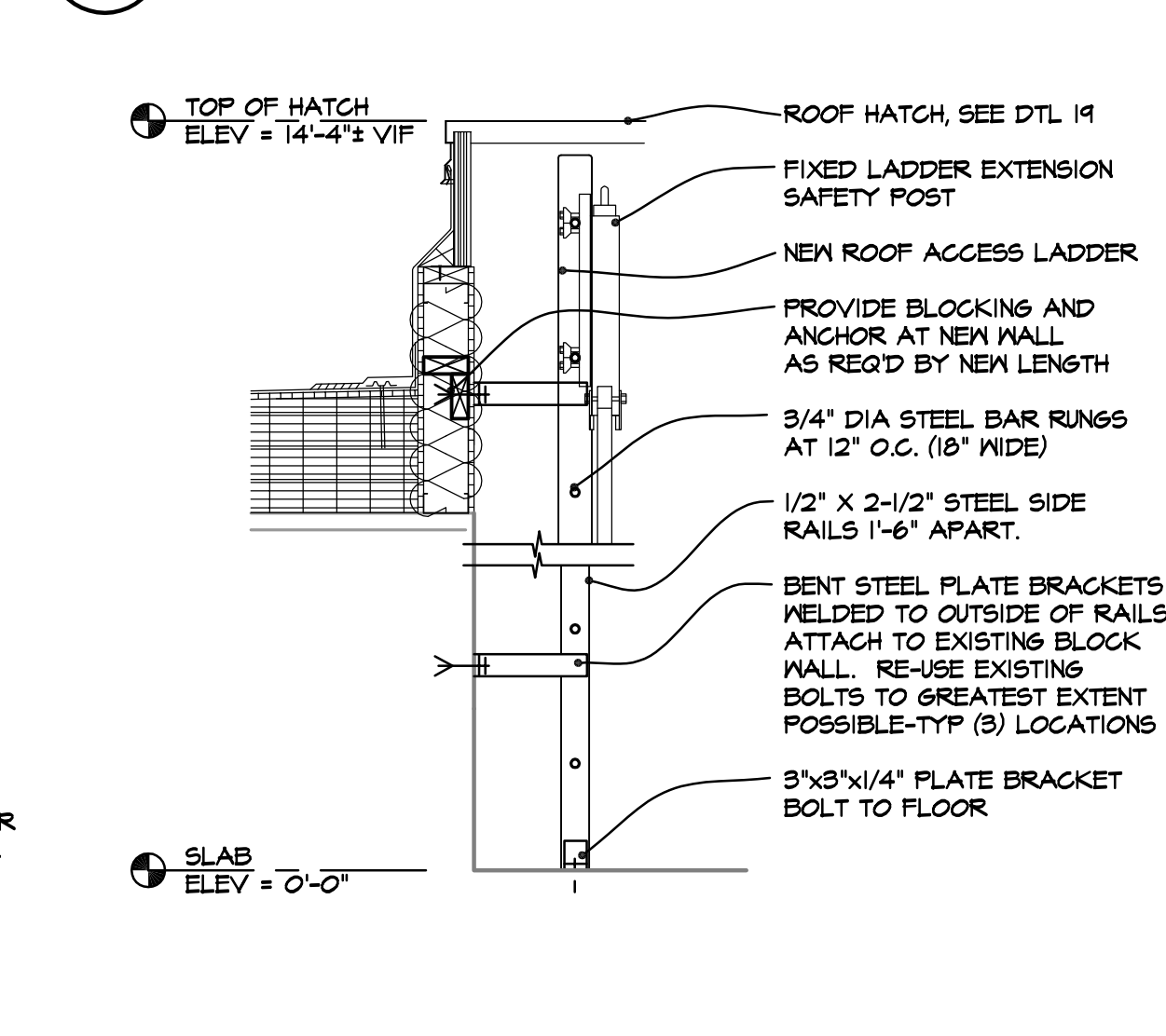
17 ROOF EDGE AT PENTHOUSE  
SCALE: 1-1/2" = 1'-0"



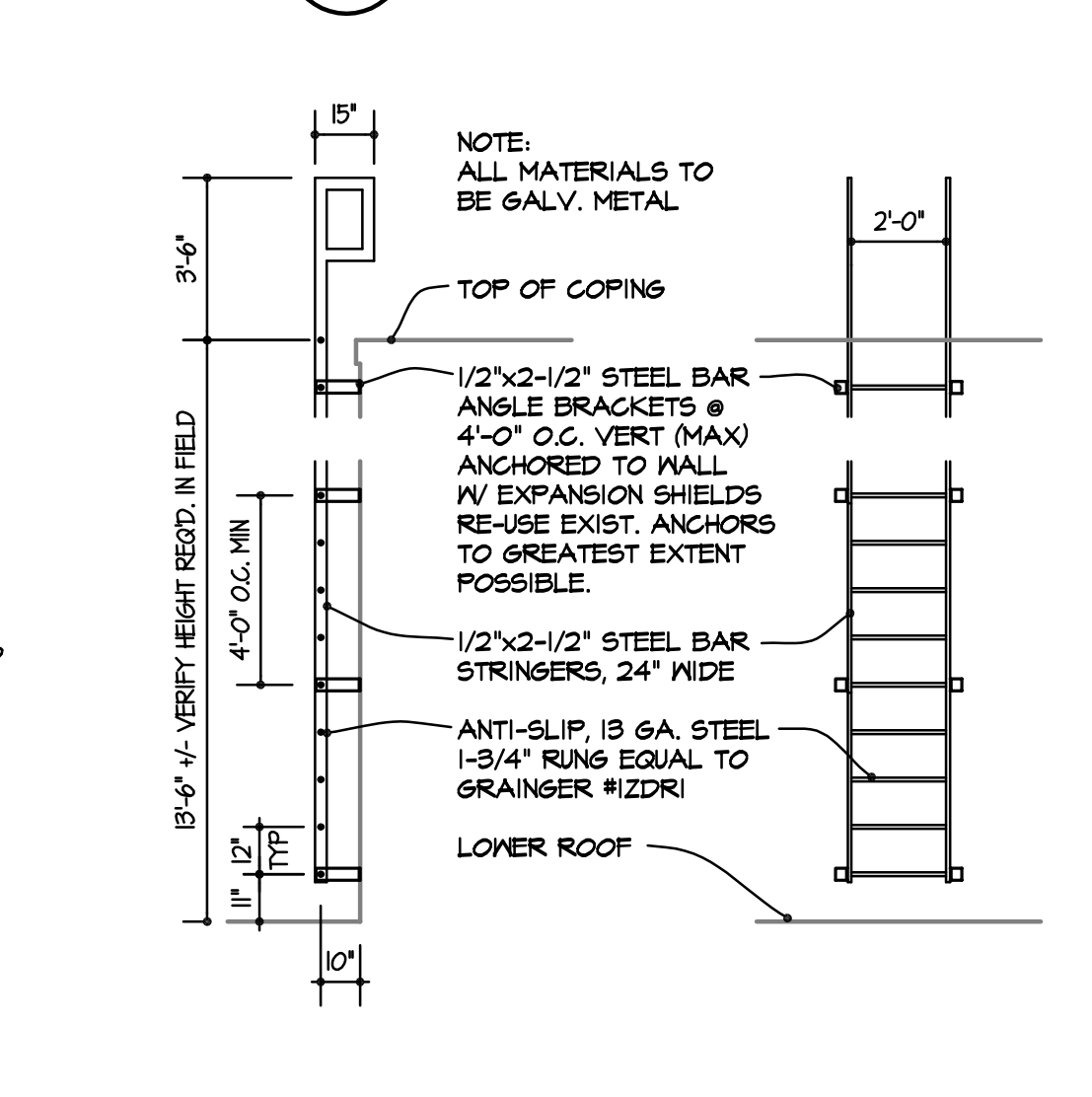
18 LEVEL CHANGE PARAPET  
SCALE: 1-1/2" = 1'-0"



19 ROOF HATCH  
SCALE: 1-1/2" = 1'-0"

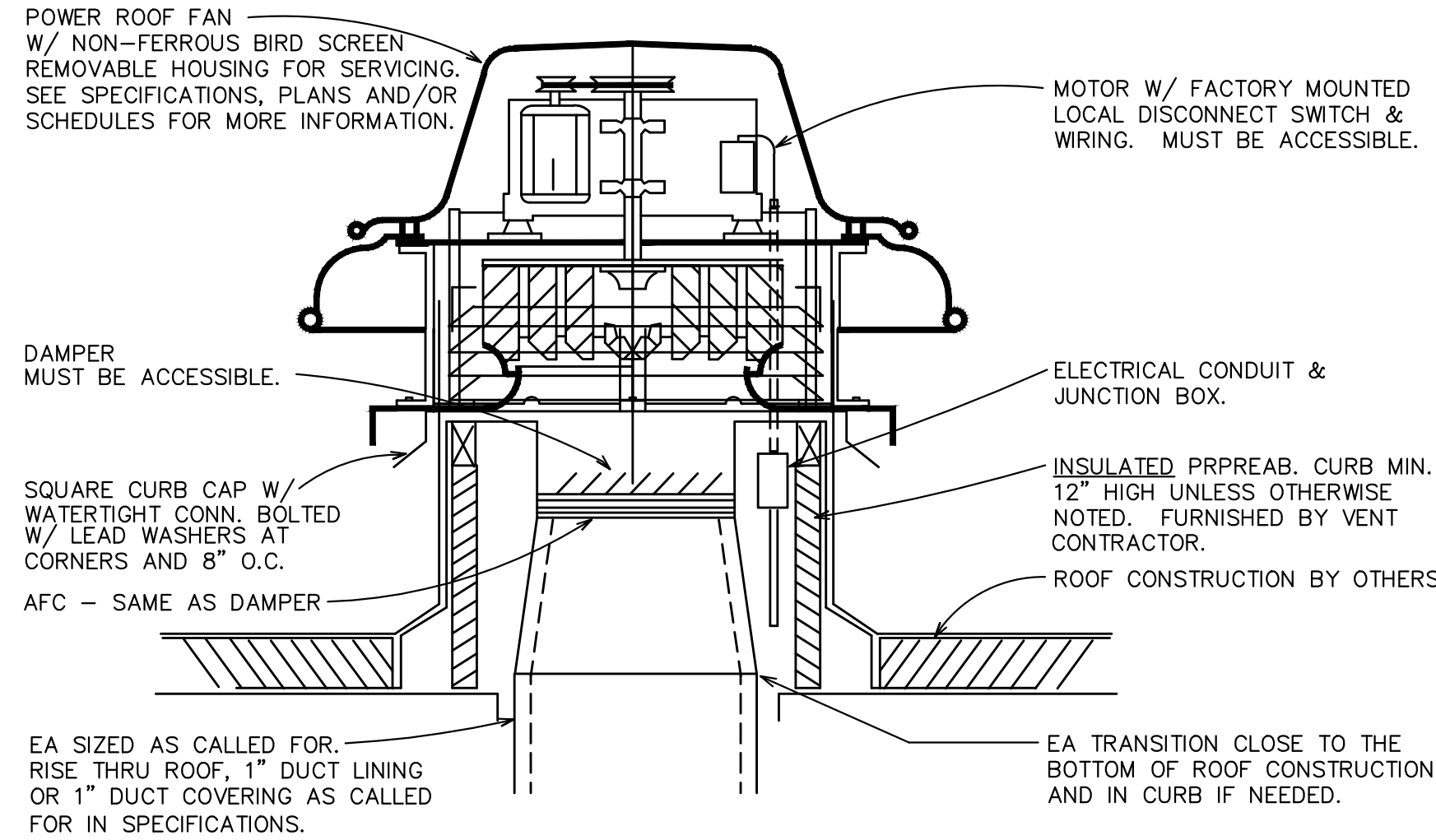


20 HATCH LADDER  
SCALE: 3/4" = 1'-0"



21 ROOF LADDER  
SCALE: 1/4" = 1'-0"

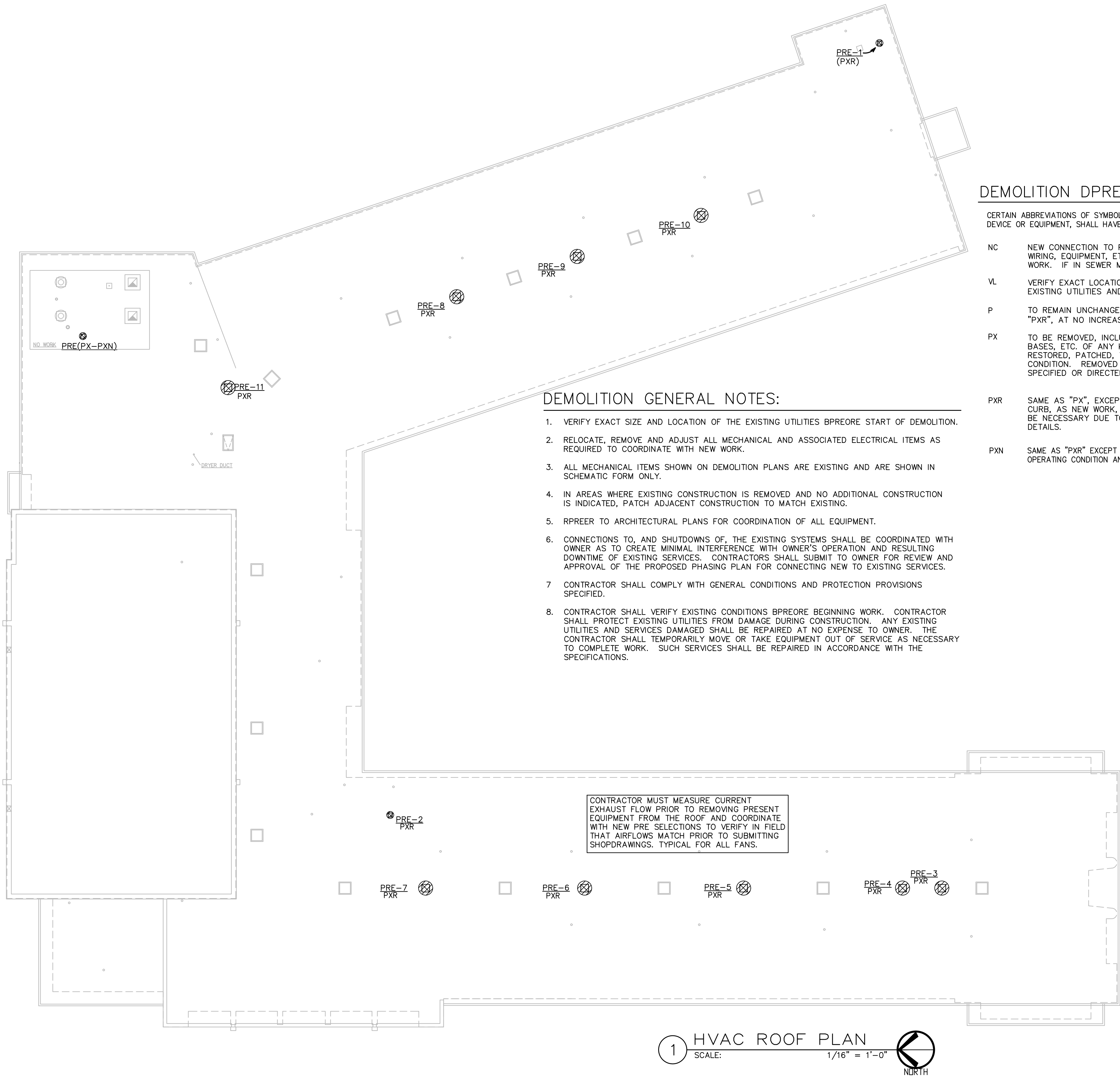




POWER ROOF FAN DETAIL  
NO SCALE

VENTILATION SCHEDULE											
RM #	ROOMNAME	23 Ill. ADM. CODE 185 HEALTH/LIFE SAFETY IN PUBLIC SCHOOLS REQ'D.				REQ'D. SPACE MIN. VENTILATION		SERVED BY		NOTES	
		FLR. AREA (SQ. FT.)	# OF PEOPLE	O.A. REQ'D./ PERSON	CFM/ SQ. FT.	O.A. (CFM)	E.A. (CFM)	EXHAUST FAN (CFM)	EXISTING EXHAUST SYSTEM		
		Az	Pz	Rp	Ra						
1	CL. RM. EARLY CHILDHOOD	1062	57	5.0	—	285	—	PRE-3		1	
2	CL. RM. EARLY CHILDHOOD	1028	57	5.0	—	285	—				
3	CL. RM. EARLY CHILDHOOD	828	46	5.0	—	230	—	PRE-4		1	
4	CL. RM. EARLY CHILDHOOD	828	46	5.0	—	230	—				
5	CL. RM. EARLY CHILDHOOD	820	46	5.0	—	230	—	PRE-5		1	
6	CL. RM. EARLY CHILDHOOD	824	46	5.0	—	230	—				
7	CL. RM. EARLY CHILDHOOD	824	46	5.0	—	230	—	PRE-6		1	
8	CL. RM. EARLY CHILDHOOD	824	46	5.0	—	230	—				
9	CL. RM. EARLY CHILDHOOD	844	47	5.0	—	835	—	PRE-7		1	
10	CL. RM. EARLY CHILDHOOD	844	47	5.0	—	835	—				
11	NOT USED										
12	CL. RM. EARLY CHILDHOOD	832	47	5.0	—	235	—	PRE-8		1	
13	CL. RM. EARLY CHILDHOOD	831	47	5.0	—	235	—				
14	CL. RM. EARLY CHILDHOOD	814	46	5.0	—	230	—	PRE-9		1	
15	CL. RM. EARLY CHILDHOOD	817	46	5.0	—	230	—				
16	CL. RM. EARLY CHILDHOOD	819	46	5.0	—	230	—	PRE-10		1	
17	CL. RM. EARLY CHILDHOOD	819	46	5.0	—	230	—				
18	CL. RM. EARLY CHILDHOOD	817	46	5.0	—	830	—	PRE-2			
19	CL. RM. EARLY CHILDHOOD	819	46	5.0	—	230	—				
20	CL. RM. EARLY CHILDHOOD	826	47	5.0	—	235	—	PRE-1			
21	OT/PT CLASSROOM	820	46	5.0	—	230	—				
	BOY'S (NORTH WING)	289	—	—	1.5	—	433	PRE-2			
	GIRL'S (NORTH WING)	312	—	—	1.5	—	468	PRE-2			
	BOY'S (SOUTH WING)	303	—	—	1.5	—	455	PRE-1			
	GIRL'S (SOUTH WING)	286	—	—	1.5	—	429	PRE-1			
	FACULTY LOUNGE	1466	74	5.0	2.0	—	2932		PRE(P)		
	KITCHEN	279	—	—	2.0	—	558	PRE-11			
	SPECIAL ED & IEP	319	18	5.0	—	90	—	—	—		
	PARENT WAITING AREA	285	15	5.0	—	75	—	—	—		
	DIAGNOSTIC TEAM ROOM	531	27	5.0	—	135	—	—	—		
	SPEECH & LANGUAGE TEST	116	27	5.0	—	135	—	—	—		
	#1 FAMILY SUPPORT	367	18	5.0	—	90	—	—	—		
	OFFICE (SOUTH)	297	15	5.0	—	75	—	—	—		
	CONFERENCE ROOM	164	8	5.0	—	40	—	—	—		
	PRINCIPAL OFFICE	204	10	5.0	—	50	—	—	—		
	COPY	70	1	5.0	—	50	—	PRE(P)			
	GYMNASIUM	2869	475	5.0	—	2375	—	—	AC(P)		
	GROSS ROOM	2807	475	5.0	—	2375	—	—	AC(P)		
	KITCHEN	279	6	—	2.0	—	558	—	PRE(P)		
	CORRIDOR A	1128	—	—	—	—	—	—	GRAV-VENT		
	CORRIDOR H	2205	—	—	—	—	—	—	GRAV-VENT		
	CORRIDOR F	2937	—	—	—	—	—	—	GRAV-VENT		
	NURSE	195	9	5.0	—	45	—	—	GRAV-VENT		
	LIBRARY	677	27	5.0	—	135	—	PRE-7		1	
	RESOURCE	473	24	5.0	—	120	—				

NOTES:  
1. FAN SHALL RECONNECTED TO EXISTING CONTROLS (VERIFY).



DEMOLITION GENERAL NOTES:

- VERIFY EXACT SIZE AND LOCATION OF THE EXISTING UTILITIES BPREORE START OF DEMOLITION.
- RELOCATE, REMOVE AND ADJUST ALL MECHANICAL AND ASSOCIATED ELECTRICAL ITEMS AS REQUIRED TO COORDINATE WITH NEW WORK.
- ALL MECHANICAL ITEMS SHOWN ON DEMOLITION PLANS ARE EXISTING AND ARE SHOWN IN SCHEMATIC FORM ONLY.
- IN AREAS WHERE EXISTING CONSTRUCTION IS REMOVED AND NO ADDITIONAL CONSTRUCTION IS INDICATED, PATCH ADJACENT CONSTRUCTION TO MATCH EXISTING.
- RPREER TO ARCHITECTURAL PLANS FOR COORDINATION OF ALL EQUIPMENT.
- CONNECTIONS TO, AND SHUTDOWNS OF, THE EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER AS TO OREATE MINIMAL INTERFERENCE WITH OWNER'S OPERATION AND RESULTING DOWNTIME OF EXISTING SERVICES. CONTRACTORS SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL OF THE PROPOSED PHASING PLAN FOR CONNECTING NEW TO EXISTING SERVICES.
- CONTRACTOR SHALL COMPLY WITH GENERAL CONDITIONS AND PROTECTION PROVISIONS SPECIFIED.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BPREORE BEGINNING WORK. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY EXISTING UTILITIES AND SERVICES DAMAGED SHALL BE REPAIRED AT NO EXPENSE TO OWNER. THE CONTRACTOR SHALL TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK. SUCH SERVICES SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.

EXHAUST AIR FAN SCHEDULE											
UNIT MARK	MFR	MODEL NUMBER	AREAS SERVED	LOCATION	AIRFLOW CFM	TYPE	EXTERNAL S.P.	FAN RPM	MOTOR HP	SONES	ELECTRICAL
PRE-1	GREENHECK	AE-16-428-B	SOUTH B&G RESTROOMS	ROOF	885	DIRECT	0.25"	1,121	1/6	11.7	115/1
PRE-2	GREENHECK	AE-16-428-B	NORTH B&G RESTROOMS	ROOF	900	DIRECT	0.25"	1,082	1/6	10.3	115/1
PRE-4, PRE-5, PRE-6, PRE-7, PRE-8, PRE-9, PRE-10	GREENHECK	AE-18-433-B	CLASSROOMS	ROOF	1,200	DIRECT	0.5"	1,132	1/3	14.2	115/1
PRE-11	GREENHECK	VG-098-1/6	KITCHEN	ROOF	250-560	DIRECT	0.3"	1,491	1/4	9.3	115/1

ALTERNATE MANUFACTURER'S ACCEPTED PROVIDED THEY ARE EQUAL TO SPECIFIED EQUIPMENT  
NOTES:  
1. FAN SHALL HAVE AMCA SEAL & BE U.L. CERTIFIED.  
2. FAN SHALL HAVE ALUMINUM BIRD SCREEN.  
3. SAFETY DISCONNECT SWITCH.  
4. PROVIDE DUCT MOUNTED GRAVITY BACKDRAFT DAMPER.  
5. EXHAUST FAN SHALL BE CONTROLLED BY TIME CLOCK OR INDIRECTLY WITH LCP TO OPERATE DURING OCCUPANCY HOURS ONLY.  
6. FAN SHALL BE MOUNTED TO NEW CURB MOUNTED TO EXISTING LOCATION.  
7. FAN SHALL BE 2-SPEED VARIABLE SPEED MOTOR.

DEMOLITION DPREINITIONS:

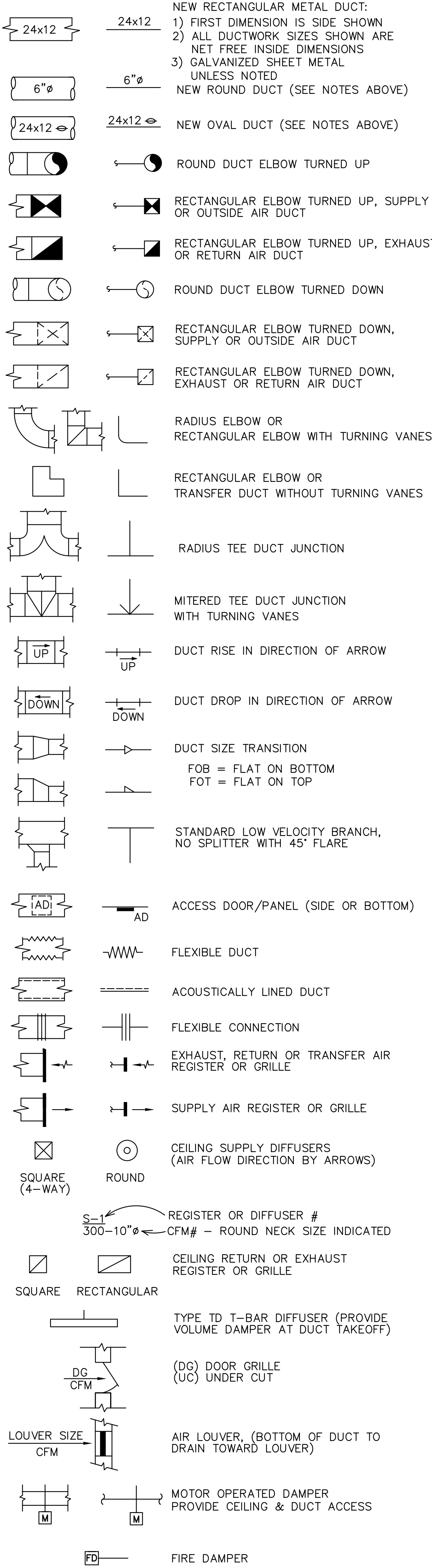
- CERTAIN ABBREVIATIONS OF SYMBOLS, WHEN APPLIED TO PRESENT (OR EXISTING) LINE, DEVICE OR EQUIPMENT, SHALL HAVE FOLLOWING MEANINGS:
- NC NEW CONNECTION TO PRESENT PIPING, DEVICE, MANHOLE, SEWER, DUCT, WIRING, EQUIPMENT, ETC. INSTALL, TEST, COVER, PAINT, ETC. SAME AS NEW WORK. IF IN SEWER MANHOLE, PROVIDE FLOW CHANNEL IN BOTTOM.
- VL VERIFY EXACT LOCATION IN FIELD. THIS NOTE APPLIES TO ALL PRESENT OR EXISTING UTILITIES AND CONSTRUCTION WHETHER CALLED FOR OR NOT.
- P TO REMAIN UNCHANGED. IF CHANGE CANNOT BE AVOIDED, CHANGE "P" TO "PXR", AT NO INCREASE IN CONTRACT PRICE. VERIFY LOCATION.
- PX TO BE REMOVED, INCLUDING UNNEEDED CONNECTIONS, PIPING, DUCTS, WRING, BASES, ETC. OF ANY KIND. OTHER DISTURBED WORK OF ANY KIND SHALL BE RESTORED, PATCHED, TESTED, COVERED, PAINTED, ETC. TO EQUAL ORIGINAL CONDITION. REMOVED MATERIALS MUST NOT BE REUSED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY ARCHITECT.
- PXR SAME AS "PX", EXCEPT REMOVED, REINSTALLED NEW PRE TO BE ON NEW CURB, AS NEW WORK, IN ORIGINAL POSITION. SLIGHTLY NEW POSITIONING MAY BE NECESSARY DUE TO NEW ROOF INSULATION, SEE NEW WORK PLAN FOR DETAILS.
- PXN SAME AS "PXR" EXCEPT REMOVED, CLEANED AND RESTORED TO GOOD OPERATING CONDITION AND REINSTALLED SAME AS NEW WORK, IN SAME LOCATION.

SHEET ADDED WITH  
ADDENDUM 4  
REV.

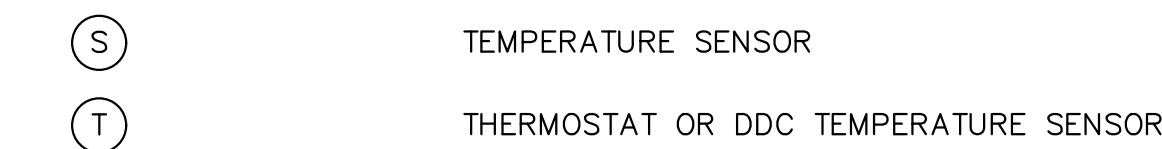




DUCT AND EQUIPMENT SYMBOLS



CONTROL SYMBOLS



GENERAL NOTES

- DRAWINGS ARE GENERALLY DIAGRAMMATIC. EACH CONTRACTOR SHALL MAKE REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS SUCH AS OFF SETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND THE BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, FOR PRESENT CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO AVOID CONFLICT. IT IS INTENDED THAT ALL EQUIPMENT, MATERIAL, DEVICES, ETC., SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLARITY OF PRESENTATION.
- ALL MECHANICAL WORK SHALL CONFORM WITH THE INTERNATIONAL MECHANICAL CODES 2015, LOCAL & MUNICIPAL CODES AND AUTHORITY HAVING JURISDICTION.
- EACH CONTRACTOR SHALL CHECK DRAWINGS OF THE OTHER TRADES TO VERIFY THEIR WORK WILL BE INSTALLED CLEAR OF OBSTRUCTIONS. MAINTAIN MAXIMUM HEADROOM AT ALL POINTS IN THE BUILDING, WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT bPREore PROCEEDING WITH THE INSTALLATION.
- FURNISH ALL TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, EQUIPMENT, FRAMES, BOXES, SLEEVE AND OPENINGS NEEDED FOR WORK. FURNISH INFORMATION AND SHOP DRAWINGS TO PERMIT OTHER TRADES TO COORDINATE THEIR WORK.
- WHERE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF ANOTHER TRADE, ALL TRADES SHALL ASSIST TO WORK COORDINATE THEIR WORK.
- PRIOR TO BIDDING THE HVAC CONTRACTOR SHALL REVIEW ALL DRAWINGS AND COORDINATE WORK. CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ARCHITECT ANY INCONSISTENCIES OR INTERFERENCE WITH HIS WORK.
- CONTRACTOR SHALL COORDINATE ALL CEILING DIFFUSERS, REGISTERS, AND/OR GRILLES WITH SUSPENDED CEILING AND LIGHT FIXTURES. OPENINGS SHALL BE IN CENTER OF TILES.
- SHEETMETAL DUCT SIZES MAY BE ALTERED TO FIT JOB CONDITIONS, BUT NET FREE AREAS MUST BE MAINTAINED. INCREASE SHEETMETAL DUCT SIZE TO ALLOW FOR DUCT LINING WHERE USED. WRAP ALL DUCTWORK EXCEPT AS NOTED. MAXIMUM DUCT ASPECT RATIO 1:5
- ALL DUCTWORK TO BE HELD TIGHT TO STRUCTURAL ROOF JOISTS, BEAMS, ETC, AS CLEARANCE IS MINIMAL. COORDINATE WITH OTHER CONTRACTORS TO AVOID CONFLICT.
- CONTRACTOR SHALL INCLUDE IN HIS WORK THE RELOCATION OF ALL CROSS BRACING, AS REQUIRED TO FIT DUCTS BETWEEN JOISTS. THIS WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR WITH ARCHITECTURAL APPROVAL.
- CONTRACTOR SHALL PROVIDE ALL DUCT DROPS AND OFFSETS TO AVOID INTERFERENCES WITH JOISTS, OTHER DUCTS, LIGHTS, PIPES, ETC.
- ALL THERMOSTATS LOCATED UP 4'-6" TO 5'-0" TO MATCH ADJACENT LIGHT SWITCHES AND WITH PLASTIC OR CAST GUARDS AS SPECIFIED. ALL THERMOSTATS LOCATED ON EXTERIOR WALLS OR COLUMNS MUST BE MOUNTED ON THERMAL INSULATING BLOCKS.
- CONTRACTOR SHALL PROVIDE COOLING COIL CONDENSATE DRAIN LINES FROM AIR HANDLING UNIT TO DRAIN.
- HEATING, VENTILATING, AIR CONDITIONING AND ELECTRICAL DESIGNS ARE BASED ON THE REQUIREMENTS FOR THE SPECIFIED EQUIPMENT MANUFACTURER. CONDUITS, DISCONNECTS, BREAKERS, FUSES AND WIRE SIZES ARE SELECTED ON THE BASIS OF SPECIFIED EQUIPMENT MANUFACTURER. INCREASED CURRENT REQUIREMENTS NECESSITATING LARGER WIRE, BREAKERS, FUSES, SWITCHES, ETC., TO ACCOMMODATE ANY ALTERNATE OR SUBSTITUTE MANUFACTURER'S EQUIPMENT OTHER THAN AS SHOWN ON DRAWINGS OR SCHEDULES SHALL BE PROVIDED WITHOUT INCREASE IN CONTRACT PRICE BY THE CONTRACTOR FURNISHING EQUIPMENT.
- INSTALL 1" OF NON-SHRINK GROUT AROUND DUCTWORK AND PIPING ON EACH WALL FACE TO SEAL OPENINGS AND ELIMINATE SOUND TRANSFER WITH AIR-TIGHT CONNECTIONS.
- EXTEND RTU EXHAUST TO MAINTAIN 10 FT SEPARATION TO ANY AIR INTAKES. VERIFY LOCATION. CONFIRM WITH LOCAL INSPECTORS AS TO REQUIREMENTS.
- GUARDS SHALL BE PROVIDED WHERE APPLIANCES EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE LOCATED WITHIN 10 FT OF ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL BE EXTEND NOT LESS THAN 30 INCHES BEYOND EACH END OF EQUIPMENT AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THAN 42 INCHES ABOVE ELEVATED SURFACE.
- INSULATION**  
DUCT INSULATION SHALL CONFORM TO THE REQUIREMENTS OF 2018 IMC SECTION 604 AND 2018 IECC SECTION C403.11.1 FOR COMMERCIAL BUILDINGS AND R403.3.1 FOR RESIDENTIAL BUILDINGS.  
A. **COMMERCIAL BUILDINGS**  
SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH NOT LESS THAN R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 1-4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5-8. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY NOT LESS THAN OF R-8 INSULATION IN CLIMATE ZONES 1-4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5-8. EXCEPTION: WHERE LOCATED WITHIN EQUIPMENT.  
EXCEPTION: WHERE THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM IS NOT GREATER THAN 15 DEG. F.  
DUCTS, AHU & FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH IMC SECTION 603.9.
- SUPPORTS AND ANCHORS**  
A. MANUFACTURERS: GRINNELL, B-LINE, O.Z. GEDNEY, MICHIGAN HANGER, BERGEN/CARPENTER AND PATERSON.  
B. USE MATERIALS COMPATIBLE WITH PIPING SYSTEMS AVOIDING ELECTROLYTIC ACTION AND CONFORM TO ANSI/ASME B31, NFPA, MSS SP-58, 69, 89.  
C. WIRE ARE NOT ALLOWED TO BE USED AS A HANGER SUPPORT.
- TESTING AND BALANCING**  
A. AIR BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF ADJUSTABLE FAN SHEAVES. BRANCH DAMPERS ARE TO BE USED FOR ANY REQUIRED TRIM ADJUSTMENT.  
B. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND EQUIPMENT INCLUDING SHEAVES AS REQUIRED TO BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH QUANTITIES SHOWN ON DRAWINGS.  
C. BALANCING SHALL BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER AND REPORT SHALL BE PROVIDED ON AABC TYPE FORMS.
- AIR DISTRIBUTION SYSTEMS**  
A. AIR TERMINALS  
1. PROVIDE SUPPLY AND RETURN AIR DIFFUSERS/REGISTERS AS SHOWN ON SCHEDULES.  
B. SHEET METAL WORK  
1. EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL DUCTWORK AND OTHER SHEET METAL WORK SHALL BE GALVANIZED SHEET STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL, INC. (SMACNA) DUCT CONSTRUCTION STANDARDS. DUCT SYSTEMS TO BE 2" PRESSURE CLASS.  
2. ALL DUCT DIMENSIONS INDICATED ON THE PLANS ARE INSIDE CLEAR DIMENSIONS.  
3. SUPPLY DUCTWORK TO BE RECTANGULAR WITH HEMMED "S" LONGITUDINAL SEAMS AND DUCTMATE TRANSVERSE JOINTS.  
4. MANUAL VOLUME DAMPERS: GALVANIZED STEEL, PER SMACNA EXCEPT PROVIDE BEARING AT ONE END OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW AT THE OPPOSITE END. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR TO CLEAR INSULATION. LEVERS MUST BE ACCESSIBLE.  
C. EXHAUST DUCTWORK ELBOWS TO BE LONG RADIUS TYPE.  
D. ACCESS DOORS SHALL BE PROVIDED IN DUCTWORK WHEREVER CONTROLS, CONTROL DAMPERS, COILS, & INSTRUMENTS ARE INSTALLED.  
E. THE PLENUM CHAMBER THAT IS USED FOR RECIRCULATION OF AIR SHALL BE OF TIGHT CONSTRUCTION AND ALL SOURCES OF AIR CONTAMINATION FROM TRAPS, SOIL STACKS, DOWNSPOUTS, VENTS, EXHAUST DISCHARGE AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.
- CONTROL SYSTEM WIRING**  
A. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL CONTROL WIRING FOR HVAC EQPM.
- SHUTOFF DAMPERS (MANDATORY)**  
A. PER 2018 IECC SECTION C403.7.7, OUTDOOR AIR INTAKE AND EXHAUST OPENINGS AND STAIRWAY AND SHAFT VENTS SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS. THE DAMPERS SHALL HAVE AN AIR LEAKAGE RATE NOT GREATER THAN 1/4 INCH OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE (249 Pa) AND SHALL BE LABELED BY AN APPROVED AGENCY WHEN TESTED IN ACCORDANCE WITH AMCA 5000 FOR SUCH PURPOSE.  
B. OUTDOOR AIR INTAKE AND EXHAUST DAMPERS SHALL BE INSTALLED WITH AUTOMATIC CONTROLS CONFIGURED TO CLOSE WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE OR DURING UNOCCUPIED PERIOD WARM-UP AND SETBACK OPERATION, UNLESS THE SYSTEMS SERVED REQUIRE OUTDOOR OR EXHAUST AIR IN ACCORDANCE WITH THE IMC OR THE DAMPERS ARE OPENED TO PROVIDE INTENTIONAL ECONOMIZER COOLING.  
C. STAIRWAY AND SHAFT VENT DAMPERS SHALL BE INSTALLED WITH AUTOMATIC CONTROLS CONFIGURED TO OPEN UPON THE ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE OF THE BUILDING'S FIRE ALARM SYSTEM OR THE INTERRUPTION OF POWER TO THE DAMPER.  
EXCEPTION: NONMOTORIZED GRAVITY DAMPERS SHALL BE AN ALTERNATIVE TO MOTORIZED DAMPERS FOR EXHAUST AND REUPRE OPENINGS AS FOLLOWS:  
1. IN BUILDINGS LESS THAN THREE STORIES IN HEIGHT ABOVE GRADE PLANE.  
2. IN BUILDINGS OF ANY HEIGHT LOCATED IN CLIMATE ZONES 1, 2 OR 3.  
3. WHERE THE DESIGN EXHAUST CAPACITY IS NOT GREATER THAN 300 CFM.

HVAC SPECIFICATIONS

15050 BASIC MECHANICAL MATERIALS AND METHODS

Provide complete systems as called for, and/or shown, and/or specified. HVAC contractor to furnish and completely install the system, service, equipment, or material named, together with other associated devices, equipment, materials, wiring, piping, etc., as required to perform work called for, shall be responsible to the HVAC Contractor. Secure all permits for work as required. Where "furnish and install", "provide", "furnish", "install" or equivalent words are used, they mean that the contractor shall furnish and completely install the system, service, equipment or material named, together with other associated devices, equipment, material, wiring, piping, etc., as required for a complete operating installation.

STANDARDS, CODES AND REGULATIONS

Equipment, devices, apparatus and installations to be in full compliance with applicable standards, requirements, rules, regulations, codes, statutes, ordinances, etc., local, city, county, state government, Illinois Administrative Code, Owner's insurance company, local gas and electric utilities, labor regulations. Changes required to conform to requirements shall be made without increase in contract price as approved by the Architect.

Electrical equipment, wiring, gas burning equipment, handling and storage equipment, all hydronic piping, rPRerigeration piping, insulating materials, etc., shall conform to the applicable requirements of NFPA, NEC, UL, AGA, OSHA, EPA, BOCA, local and all applicable state and federal safety codes; for a particular type installation and shall be so labeled where applicable.

MATERIALS

Materials to be of new grade, U.S. make and quality specified.

WIRING

Wiring to be in compliance with latest N.E.C. and all applicable codes. Line wires, of proper size, shall be furnished by Electrical Contractor, with final power connections made by Electrical Contractor. Heating Contractor, within his contract, shall be responsible for all control wiring of equipment, provide devices, panels, disconnect switches, starters, interlocks, controls, etc., to give a complete/satisfactory operating system.

COORDINATION

bPREore any work is installed and bPREore any equipment is purchased, contractor shall carPREUely check specifications and drawings for every trade and job conditions and any lack of coordination between his work and the specifications and drawings or job conditions shall be immediately reported to the Architect, in writing. The Architect will work out conflicts and adjustments in contract prices. Changes in equipment shall be incorporated in the shop drawings. If contractor fails to call such lack of coordination between specifications, drawings and job conditions to the Architect's attention, in writing, bPREore any work is done or bPREore equipment is purchased, it will be assumed that no conflicts exist. If conflicts arise during the construction period, they shall be immediately reported to the Architect in writing and they will be worked out by the Architect, but no increase in contract price will be allowed. The Architect's decisions shall be final. When heating and cooling equipment is operated by the Heating contractor, the Heating contractor shall be solely responsible for the operation and safety of such equipment. When heating and cooling equipment is operated by the owner (or other contractors), the owner (or other contractors) shall be solely responsible for the operation and safety of such equipment.

GUARANTEE

HVAC Contractor shall guarantee all equipment, apparatus, materials and workmanship entering into this contract and shall replace all parts at his own expense which have proven dPREective within one (1) year from formal acceptance. Individual items shall be guaranteed as called for in addition to the above.

SUBMITTALS

Each respective contractor shall submit to the Architect for approval, bPREore construction is started, seven (7) copies of shop drawings for equipment, devices, material, controls, accessories, wiring diagrams, etc., for respective installation.

SPECIAL SUPERVISION AND INSTRUCTIONS

Each specialized installation shall be made under the supervision of a factory trained engineer or contractor's superintendent who shall (a) submit a written report that the installation has been installed in keeping with the specified requirements and the manufacturer's standards; (b) instruct the Owner's operating personnel bPREore final acceptance; (c) prepare permanent form operating instructions, parts lists, wiring diagrams and control diagrams, in booklet form, in triplicate, turned over to Owner and (d) certify that the installation is operating satisfactorily under the Owner's personnel and certify that the Owner's personnel are trained on systems and equipment per manufacturer's guidelines.

CUTTING AND PATCHING

Contractor shall set sleeves and inserts required for intakes, piping, hangers, louvers, ventilators, ductwork, etc., in construction. Supply General Contractor with complete information as to size and location of openings, through walls, floors, roofs, etc., for installation of this work. If this information is not supplied bPREore new walls or floors are built, HVAC contractor shall cut all openings as approved by the Architect. Patching and rebuilding required to patch openings, and to restore construction to its original condition bPREore cutting, using skilled craftsmen, as approved by the Architect. Shall be performed by others. Openings shall be accurately located, as small as possible, and neatly and cleanly cut. Wall openings shall be neatly cemented and wall frames grouted in place by Heating contractor.

15815 METAL DUCTS

Sheet metal ductwork to be installed, constructed, fabricated, etc., in accordance with the latest SMACNA manual, all local codes; galvanized sheet steel or 2s or 3s aluminum sheets. Furnish volume dampers with external locking quadrants. Provide sealed hinged-removable access doors where called for and/or required for access to controls, operators, sensors, filters, dampers, etc.,

FLEXIBLE DUCTWORK

Flexible ducts shall be of Wiremold, Flexmaster, Thermaflex, Genflex or approved make, Wiremold type WG constructed of high temperature, vinyl organosol coated glass fabric; 14 oz. and cold rolled corrosion-resistant coated steel spiral. Duct shall be factory pre-insulated with minimum 1" of 3/4 lb. density glass fiber blanket, sheathed with an exterior flame-resistant vinyl vapor barrier. Strap clamps shall be plastic trap or stainless steel draw-up clamps for securing flexible air duct. Prior to clamping, duct shall be sealed as per manufacturer's recommendations. Flexible duct to be suitable for use with system pressure rating and design. FLEXIBLE DUCT RUNS SHALL NOT EXCEED MAXIMUM LENGTH DICTATED BY LOCAL CODE.

15820 DUCT ACCESSORIES

Flexible connections, as called for on drawings, to be fire-water-weather-resistant fabric as manufactured by Ventfab or approved make.

OPENINGS, SLEEVES AND CHASES

Contractor shall set sleeves and inserts required for piping, hangers, intakes, louvers, ventilators, ductwork, curbs, etc., in construction. Contractor to furnish General Contractor with complete information as to size and location of openings through walls, floors, roofs, etc., for installing this work. If this information is not supplied bPREore new walls, floors, roofs, etc., are built, respective Contractor shall furnish, cut and patch all required openings for installation of equipment, material, devices, etc., as required and approved by the Architect. For new construction, General Contractor will cut holes through roof and Roofing Contractor will do all flashing, roof patching, etc., unless otherwise noted. Roof openings 18" and larger shall be framed with headers connected to roof joists with steel members framed between. All roofing work and equipment to meet requirements of National Association of Roofing Contractors.

ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT	KW	KILOWATT
AF	ABOVE FINISH FLOOR	MBH	THOUSAND BTU'S PER HOUR
BD	BACKDRAFT DAMPER	MCA	MINIMUM CIRCUIT AMPACITY
BTU	BRITISH THERMAL UNIT	MECH	MECHANICAL
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CEILING	CEILING	MNT	MOUNTED
DB	DRY BULB	NTS	NOT TO SCALE
DWG(S)	DRAWING, DRAWINGS	OA	OUTSIDE AIR
EA	EXHAUST AIR	OED	OPEN ENDED DUCT
PRE	EXHAUST FAN	R	RETURN
EH	ELECTRIC HEATER	RF	RETURN AIR FAN
ERC	ELECTRIC REHEAT COIL	RLA	RUNNING LOAD AMPS
FA	FRESH AIR	RPM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER	S	SUPPLY
FLA	FULL LOAD AMPS	TD	AIR TRANSFER DUCT
GF	GAS FURNACE	TYP	TYPICAL
GWH	GAS WATER HEATER	V	VOLTS
HP	HORSEPOWER, HEAT PUMP	VD	AIR VOLUME DAMPER
HVAC	HEATING VENTILATING AIR CONDITIONING		

THIS PROJECT HAS BEEN DESIGNED TO MEET ALL THE APPLICABLE CODES PERTAINING TO HEATING, VENTILATING AND AIR CONDITIONING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE SYSTEMS AS DESIGNED AND IN A MANNER THAT MEETS THE APPROPRIATE CODE REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.

The Mechanical Contractor shall be responsible to cut and patch necessary roof, wall or floor openings and provide materials and hardware for complete installation.

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SHEET ADDED WITH  
ADDENDUM 4  
REV.

ROOF REPLACEMENT FOR  
ROCKFORD PUBLIC SCHOOLS  
FAIRVIEW EARLY CHILDHOOD CENTER  
512 FAIRVIEW AVENUE  
ROCKFORD, ILLINOIS

DRAWN  
LEGACY  
DESIGNS

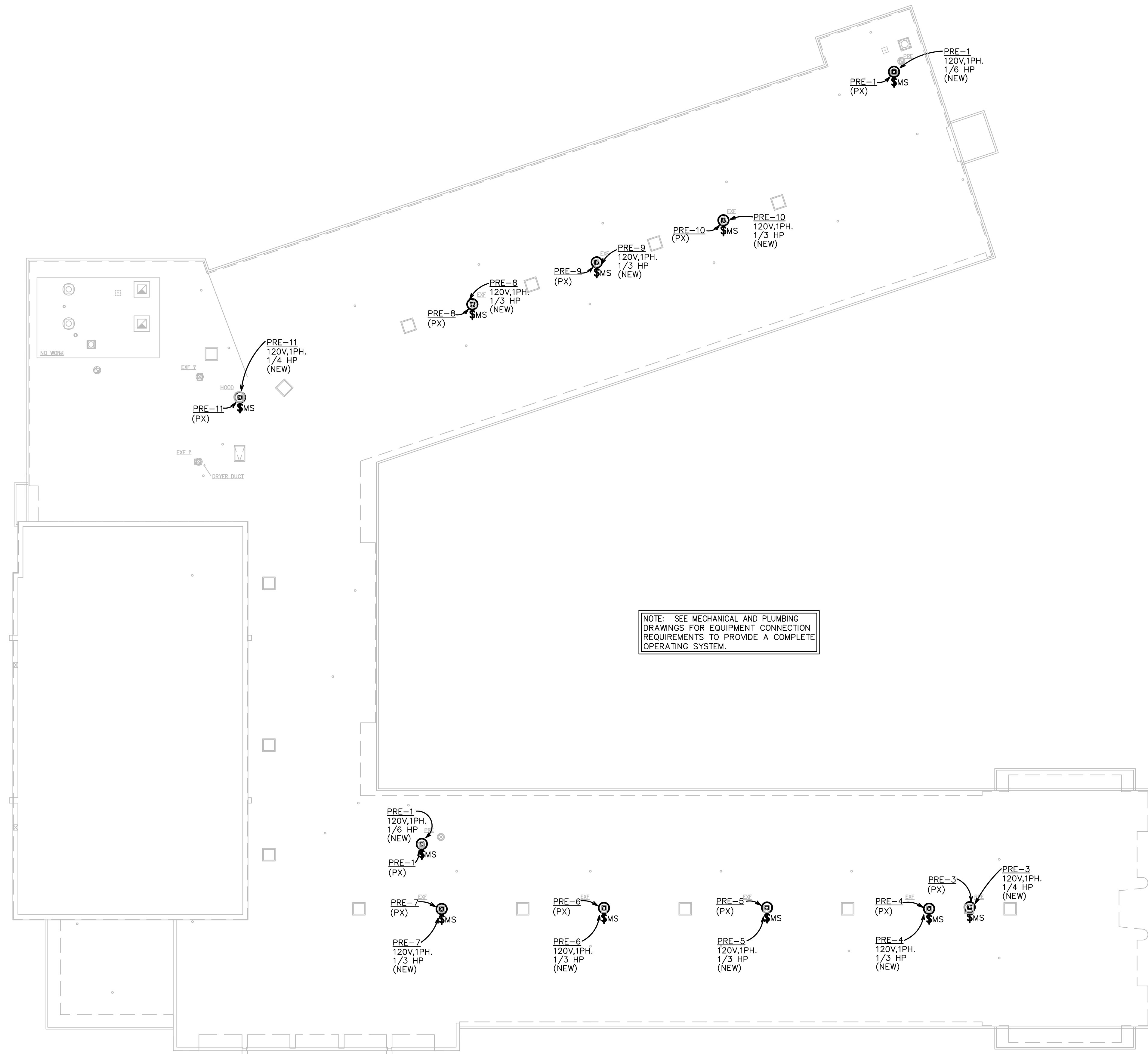
DATE  
6-1-21

PROJECT No.  
1121  
SD205 #2126

SHEET No.  
M-2







ELECTRICAL  
FLOOR PLAN  
SCALE: 1/16" = 1'-0"



REFERENCE NOTES:

1. DISCONNECT PRESENT EXHAUST FAN TO BE PRELACED AND EXTEND WRING AS REQUIRED TO ACCOMMODATE NEW 18" CURB AND POWER CONNECTION AT EACH LOCATION.



DRAWN  
**LEGACY  
DESIGNS**

DATE  
**6-1-21**

PROJECT No.  
**1121  
SD205 #2126**

SHEET No.  
**E-1**

PROJECT  
**ROCKFORD  
PUBLIC SCHOOLS**  
FAIRVIEW EARLY CHILDHOOD CENTER  
512 FAIRVIEW AVENUE  
ROCKFORD, ILLINOIS

SHEET ADDED WITH  
ADDENDUM 4  
REV.

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ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRICAL CODE
AM	AMMETER	NIC	NOT IN CONTRACT
A	AMPERES	P	TO REMAIN UNCHANGED, IF CHANGE CANNOT BE AVOIDED, CHANGE "P" TO "PXR", AT NO INCREASE IN CONTRACT PRICE. VERIFY LOCATION.
ASC	ABOVE SUSPENDED CEILING	PX	TO BE COMPLETELY REMOVED, INCLUDING UNNEEDED CONNECTIONS, CONDUITS, RACEWAYS, PIPING, DUCTS, BOXES, WIRING, BASES, ETC., OF EVERY KIND. UNUSED OPENINGS PLUGGED OR CAPPED, TESTED, COVERED, PAINTED SAME AS NEW WORK. OTHER DISTURBED WORK OF EVERY KIND RESTORED, PATCHED, TESTED, COVERED, PAINTED, ETC., EQUAL TO ORIGINAL CONDITION. REMOVED MATERIALS MUST NOT BE REUSED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY ENGINEER.
C	CONDUIT	PXN	REMOVED, CLEANED AND RESTORED TO GOOD OPERATING CONDITION AND REINSTALLED AT POINT/LOCATION MARKED "PN". BOXES, WIRING CONDUIT, ETC, TO BE "PX".
Q	CENTER LINE	PN	COMPLETELY REINSTALL DEVICE, LINE, EQUIPMENT, ETC., REMOVED, AT NEW LOCATION, SAME AS NEW WORK. RECONNECT TO PRESENT CIRCUIT/SWITCH LEG/SYSTEMS WIRING, ETC., UNLESS NOTED OTHERWISE ON DRAWINGS.
DISC	DISCONNECT	PH	RE--LAMP LIGHT FIXTURES FOR (PN) LIGHTS AS REQUIRED.
EC	ELECTRICAL CONTRACTOR	PNL	PHASE (Ø)
E	EMERGENCY	SW	PANEL
FBO	FURNISHED BY OTHER THAT ELECTRICAL CONTRACTOR. COMPLETELY WIRED, WITH FINAL CONNECTIONS TO EQUIPMENT AND DEVICES, BY ELECTRICAL CONTRACTOR.	V	SWITCH
FLA	FULL LOAD AMPS	W	VOLT
GFI	GROUND FAULT INTERRUPTER	WBEC	WIRE
HP	HORSEPOWER	WP	WIRED BY EC
JB	JUNCTION BOX		WEATHERPROOF
KW	KILOWATTS		
LTG	LIGHTING		
LV	LOW VOLTAGE		
MAG	MAGNETIC		
MAX	MAXIMUM		
MDP	MAIN DISTRIBUTION PANEL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MTD	MOUNTED		
MTG	MOUNTING		
NC	NEW CONNECTIONS TO PRESENT RACEWAY, DEVICE, WIRING, EQUIPMENT, ETC, INSTALL, TEST, COVER, PAINT, ETC., SAME AS NEW WORK		

ELECTRICAL SYMBOLS

TYPICAL: ALL MOUNTING HEIGHTS ARE TO DEVICE CENTERLINE U.N.O.

SWITCHES

MANUAL MOTOR STARTER

MISCELLANEOUS

OUTLET WITH FINAL CONNECTIONS TO EQUIPMENT. WHICH IS FBO. VERIFY EXACT LOCATION AND HEIGHT BEFORE ROUGH-IN.

SURFACE ELECTRICAL PANEL 36" AFF TO BOTTOM UNO

WIRING IN CONDUIT CONCEALED, ABOVE CEILINGS OR IN WALLS

WIRING IN CONDUIT CONCEALED IN OR UNDER FLOORS (UNO)

WIRING HOMERUN TO PANEL

GROUND CONDUCTOR

REFERENCE NOTE

CHARACTER MARKS= NUMBER OF WIRES, IF NONE ARE SHOWN PROVIDE TWO EXCEPT IF A GROUND CONDUCTOR IS REQUIRED PROVIDE THREE

ELECTRICAL SPECIFICATIONS:

1.01. WORK INCLUDES	2.04. BOXES	3. EXECUTION	3.06. SUPPORTING DEVICES	
A. Raceways.	A. Outlet Boxes: Hot dipped galvanized, 1.25 oz./sq. ft. or cadmium plated.	3.01. INSTALLATION	A. Installation:	G. Unused openings in enclosures in conduits, boxes, cabinets, and panels shall be filled.
B. Wires and cables.	1. Interior Boxes: Pressed sheet steel, with knockouts for conduit; attached lugs for locating.	A. Drawings are diagrammatic and are intended to convey scope of work and indicate general arrangement of conduit, boxes, equipment, fixtures and other work included in contract.	1. Mainline headroom, neat mechanical appearance, and support equipment loads specified.	H. Present painted construction which is marred shall be repaired same as new construction.
C. Boxes.	2. Ceiling Boxes: 4 inch octagon boxes for 1 fixture; including fixture studs and maximum 2 connecting conduits.	3.02. RACEWAYS	3.07. INSTALLATION PANELBOARDS	I. Certain abbreviations or symbols, when applied to present (or existing) line, device or equipment, shall have the following meanings.
D. Supporting devices.	3. Flush Mounted in Walls:	A. Locations:	A. Provide mounting brackets, busbar drillings, and filler pieces for unused spaces.	NC New connections to present piping, device, wiring, equipment, etc. Install, test, cover, point, etc., same as new work.
1.02. REGULATORY REQUIREMENTS	a. Boxes with matching plaster cover for single or two gang outlets.	1. Above-Grade Interior Locations: Electrical metallic tubing.	B. Prepare and affix typewritten directory to inside cover of panelboard indicating:	P To remain unchanged. If change cannot be avoided, change "P" to "PXR", at no increase in contract price. Verify location.
A. National Electrical Code, NFPA (2014)	b. Two gang box or larger for conductors, conductor joints, conduit terminations and wiring devices.	2. Install liquid-tight flexible conduit where subjected to one or more of the following conditions:	1. Circuit number/breaker number and use.	PX To be completely removed, including unneeded connections, piping, ducts, wiring, bases, etc., of every kind. Unused openings plugged or capped, tested, covered, painted same as new work. Other disturbed work of every kind restored, patched, tested, covered, painted, etc., to equal original condition. Removed materials must not be reused unless otherwise specified or directed by engineer.
1. Comply with NEC/NFPA No. 70, for construction and installation of basic materials.	B. Pull Boxes and Junction Boxes: NEC metal construction; with screw--on or hinged cover.	a. Moist or humid atmosphere where condensate can be expected or accumulate.	C. Install all panels dead front, coordinated with adjoining electrical, heating and plumbing equipment, architectural details and wall pattern.	
2. NEC 300--21: Wiring Methods; Spread of Fire or Products of Combustion.	1. Flush Mounted Pull Boxes: Overlapping covers with flush--head cover retaining screws; prime coated.	b. Corrosive atmosphere.	3.08. PRESENT EQUIPMENT AND CONSTRUCTION	
3. Building code for the city of Rockford.	C. Wiring Devices shall be Hubbell, Leviton, or Approved equal to those listed Underwriter's approved and N.E.C. rated. Furnish shop drawings. Refer to symbol list for scheduled wiring devices.	c. Subjected to water spray.	A. Examination	PX--DO Fixtures, equipment, devices, etc., removed intact, as far as practical, identified as required, and delivered to owner outside of building as directed by architect/engineer. Associated boxes, wiring, conduits, etc., to be "PX".
B. Underwriter's Laboratories, UL:	D. All receptacles must be grounded type with separate green ground wire from ground terminal on all grounded receptacle to backbox(and from backbox to ground bar in panelboard). Self--grounding, clip is not acceptable.	d. Subjected to dripping oil, grease, or water.	1. Before submitting his bid, Contractor shall visit the present site, building, areas being remodeled and adjacent areas not being remodeled.	PXR Removed, cleaned and restored to good operating condition and reinstalled, same as new, in original position. If reconditioning is impractical, provide new device/equipment, as approved by engineer, at no increase to contract price. If adjacent walls, floors, ceiling, etc., are damaged, they shall be repaired by electrical contractor as directed by architect.
1. All basic materials listed and labeled by UL.	E. All wiring devices in finished areas shall be flush mounted in recessed outlet boxes unless specifically noted otherwise. Wiring devices in unfinished spaces, mechanical, and utility areas may be either flush mounted or surface mounted as conditions dictate and as practical unless otherwise noted on plans; coordinate with handicap code requirement -- where applicable. Receptacles, telephone outlets, and other power and communication output devices shall not be installed lower than 18" -- in compliance with handicap code requirements -- where applicable.	Size raceways in accordance with NEC for TW wire regardless of wire type used.	2. Contractor shall contact the Owner to carefully verify all present external and internal exposed, concealed, buried points of connections as to location, size, type, depth, operating characteristics, etc., including, but not limited to the following:	PXN Removed, cleaned and restored to good operating condition and reinstalled at point/location marked "PN". Boxes, wiring conduit, etc., to be "PX".
1.03. REFERENCED	F. All duplex receptacles installed within 6 feet of a sink shall have ground fault circuit--interrupter protection.	B. Installation of Conduit:	a. Present building construction and conditions.	PN Completely reinstall device, line, equipment, etc., removed, at new location, same as new work. Reconnect to present circuit/switch leg/systems wiring, etc., unless noted otherwise on drawings.
A. American National Standards Institute, ANSI:	G. Install wiring devices where indicated, in accordance with manufacturer's written instructions, applicable requirements of NEC and NECA's "Standard of Installation", and in accordance with recognized industry practices to ensure that products served the intended function.	1. Install conduit and tubing products indicated, in accordance with manufacturer's written instructions and requirements of NEC and NECA, Standard of Installation.	b. Present interior electrical distribution system.	Re--lamp light fixtures for (PN) fixtures as required.
1. C80.3: Specification for Electrical Metallic Tubing, Zinc Coated.	H. Elevations indicated in Symbol Schedule and plans are nominal. Install to nearest block coursing, to clear equipment, or as noted.	2. Conical conduit in all areas excluding mechanical, electrical and other unfinished rooms, connections to motors, and connections to surface cabinets.	c. Present electrical operating characteristics.	J. Work of every division shall be coordinated with all other work and with present conditions, so that:
B. National Electrical Manufacturer's Association, NEMA:	I. Install receptacles and switches only in electrical boxes which are clean; free from excess building materials, debris, etc.	3. Attach conduit with clamps.	d. New connections to present equipment and/or services.	1. Electrical services to be present buildings or portions of buildings will not be interrupted during periods when those services are needed.
1. Enclosures shall be:	J. Switches and operating devices shall not be installed higher than 48" -- in compliance with handicap code requirement -- where applicable. Receptacles, telephone outlets, and other power and communication output devices shall not be installed lower than 18" -- in compliance with handicap code requirements -- where applicable.	4. Coordinate installation of conduit in partition work.	e. All areas/locations of demolition and adjoining spaces.	K. New conduit serving new and/or present electrical devices in finished rooms or spaces shall be concealed in finished rooms, where possible, or shall be run in adjoining unfinished rooms, shafts, chambers, cloak rooms, etc., where exposed conduit is permitted in finished present rooms by Architect in writing. It shall be wiremold, with matching boxes, run as inconspicuously as possible, in straight lines, parallel to walls and ceilings, with neat bends. Unneeded boxes, switches and wiring shall be completely removed and openings patched. In present rooms or locations where new lighting equipment is shown, present fixtures, boxes, wiring, switches, etc., shall be removed as per note "PX", unless another symbol is shown on drawings. Where specifically approved by Architect in writing, boxes may be permitted to remain and be provided with new flush covers, extending over entire wall opening.
a. Type 1: Indoor use, atmospheric conditions normal.	L. Coordinate with Mechanical Contractor and be responsible for assuring that wiring devices clear heating baseboard, wall, fin, cabinet units, ductwork, registers, and other HVAC equipment and appurtenances.	5. Install conduit free from dents and bruises.	f. All areas/locations for relocated/reinstalled equipment.	L. Lighting fixtures which are reused shall have lens and reflectors cleaned. All fixtures shall be provided with new lamps.
C. Underwriter's Laboratories, UL	M. Coordination with Plumbing Contractor and be responsible for assuring that wiring devices clear sinks, cabinets, piping and other plumbing equipment and appurtenances.	6. Plug conduit ends to prevent entry of dirt or moisture.	3. Verify that abandoned wiring, equipment, piping, boxes, etc. serve only abandoned facilities and remove.	M. Work shall be coordinated so that heating, plumbing, electrical and telephone services to the present building will not be interrupted, except as approved by the Architect.
1.04. PROJECT RECORD DOCUMENTS	N. Coordination with General and Cabinet Contractor and be responsible for assuring that wiring wiring devices clear cabinet work, counters, shelving, etc.	7. Clean out conduit before installation of conductor(s).	4. If contractor finds that any present point of points of connection to present facilities/equipment are incorrectly shown on plans or incorrectly specified, he shall notify the Owner, in writing, at least 10 (ten) working days before bids are due to be submitted.	3.09. CLEANING
A. Accurately record on mylar sepia copy of actual locations and wiring methods and "As-built" record documents.	O. Coordination with General and Cabinet Contractor and be responsible for assuring that wiring frame -- latch side -- with exceptions for adjacent glass light panels, etc. Contractor shall be responsible for achieving same.	8. Alter conduit routing to avoid structural obstructions, minimize cross--overs; and where possible, install raceways above water and steam piping.	5. Owner will issue an addendum to all contractors, calling their attention to revised point or points of connection, as required.	A. Clean systems internally before placing in operation. Clean externally and restore damaged surfaces.
B. Submit for Architect's review.	2.06. SUPPORTING DEVICES	9. Allow minimum 6 inch clearance at flues, steam pipes, and heat sources.	6. If electrical contractors fail to notify the Owner, in writing, as outlined above, it will be expected that their bid includes everything required to provide proper connections to all present points of connection as they actually exist or as they will be provided.	B. Lubricate equipment per manufacturer's instructions. Where -- lubricating points are not easily accessible, provide extensions.
1.05. DRAWINGS AND SPECIFICATIONS	A. Conduit Supports:	10. Route all exposed conduits parallel or perpendicular to building lines.	7. All modifications, relocations, replacements, additional runs and extensions, etc. will be provided by electrical contractors without increase in contract price.	
A. With the exception of systems and equipment furnished by Owner, it is intended that work covered by Specifications and Drawings includes systems complete and operative, irrespective of whether or not every item is specifically shown on plans and/or specified. Any omission of direct reference herein to any essential item shall not excuse contractor from complying with above intent.	1. Single Runs: Galvanized conduit straps or ring bolt type hangers with specialty spring clips	11. Fire rated walls, partitions, floors, ceiling penetrations: Sealed in accordance with NEC 300--21.	B. Following removed present equipment and materials which are in good condition (or are placed in good condition), suitable, meet requirements of these specifications, and are approved in writing by engineer, or called for, may be reused (PXN--PN).	
B. Drawings or within either document itself the item or arrangement of better quality, greater quantity or highest cost shall take precedence over drawings as directed by Owner. Figured dimensions supersede scaled dimensions. Contractor shall take no advantage of, and shall promptly call Owner's attention to any error, omission or inconsistency in Specifications and Drawings prior to submitting bid.	2. Vertical Runs: Channel support with conduit fittings.	a. Flexible conduit sufficient length to avoid vibration transmission	1. Lighting fixtures.	
C. Material shall be new. Seconds or damaged materials will be rejected by Owner, who reserves the right to disapprove and reject any materials, proposed or installed which, in their opinion, fail to meet quality standards specified. Contractor shall, at his expense, remove any rejected materials and replace with approved materials.	A. Anchors	12. Building Expansion Joints: Install UL listed expansion fittings complete with grounding jumpers where conduits cross building expansion joints.	2. Speakers.	
2. PRODUCTS	1. Hollow Masonry: Toggle bolts or spider type expansion anchors.	a. Provide bends or offsets in conduit adjacent to building expansion joints where conduit is installed above suspended ceiling.	C. Removed conduit and wire must not be reused.	
A. Conduit Materials, Components:	2. Solid Masonry: Lead expansion anchors or preset inserts	3.03. RACEWAY SYSTEM IDENTIFICATION	D. Any of above equipment which is not reused and following removed present equipment shall become property of contractor, and shall be removed per premises by him (PX).	
1. Conduit:	3. Metal Surfaces: Machine screws, bolts, or welded studs.	A. Identify all exposed conduits and boxes as follows:	1. Equipment so designated on drawings.	
a. Electrical Metallic Tubing: ANSI C80.3.	4. Wood Surfaces: Wood screws.	1. Boxes, on face of coverplate.	E. Following present equipment shall be carefully removed, intact, match, marked, in--so--far as is practical, shall remain property of Owner, and shall be delivered to Owner outside of building where directed by the engineer (PX--DO).	
2. Couplings:	5. Concrete Surfaces: Self--drilling anchors or power--driven studs.	a. Power -- Show panel, voltage and circuit number, painted stenciled letters. (Black letters, yellow background).	1. Equipment so designated on drawings.	
a. EMT Conduit: Set screw.	All 120V, single phase, 15 Amp and 20 Amp branch circuits serving bedrooms shall be protected by a listed arc--fault circuit interrupter, combination type installed (NEC 210.12).	b. Systems -- Indicate system, such as sound, clock, telephone, etc., (black letters, yellow background).	Contractor shall:	
2.02. WIRES AND CABLES	2.07. FIRE AND SMOKE PENETRATION SEALANT	3. Conductor size indicated on drawings indicates ampacity requirements using copper conductors.	1. Provide new floors under removed present equipment and where called for.	
A. Building Wiring: 98% conductivity copper, 600 volt insulation, THWN or THHN.	A. NEC 300--21; UL rated flexible sealant.	3.05. BOXES	2. Repair floors under walls adjacent to removed equipment, to match adjacent construction.	
B. Branch Circuit Wiring: Conductors smaller than #12 AWG not permitted.	A. CORROSION PREVENTION	A. Installation:	3. Fill in present chases which are no longer required and neatly patch to match adjacent construction.	
C. Provide permanent plastic name tag indicating load fed.	Protect all metallic materials against corrosion.	1. Provide knockout closures to cap unused knockout holes where blanks have been removed.	4. Out openings required for:	
2.03. WIRING SYSTEM IDENTIFICATION	1. All equipment enclosures given rust--inhibiting treatment and standard finish by manufacturer.	2. Support all boxes independently of conduit.	a. His work.	
A. Wire Insulation Color:	2. Ferrous Metal Parts: Hot dip galvanized, ASTM A123 or ASTM A153.	3. Outlet Boxes:	b. Admission of new equipment.	
120/208 v., 3 phase, 4 wire	a. Includes anchors, bolts, braces, boxes, bodies, clamps, fittings, guards, nuts, pins, rods, shims, thimbles, washers and miscellaneous parts; other than stainless steel or non--ferrous steel or non--ferrous materials.	a. Flush mount outlet boxes in areas other than mechanical rooms, electrical rooms, and above removable ceilings.	c. Removal of present equipment.	
1. Phase A Black	B. Isolation of Dissimilar Metals: Separate dissimilar metals with NEC approved material.	b. Masonry Walls:	d. New connection to present construction.	
2. Phase B Red		1) Adjust position of outlets in finished masonry walls to suit masonry course lines.	5. Patch and repair unused present holes and openings, and those left by the removal of present equipment and admission of new equipment.	
3. Phase C Blue		2) Coordinate cutting of masonry walls to achieve neat openings for boxes.	6. Patch and repair present equipment, and building construction which has been cut, removed, disturbed or marred as required to restore it to original condition before being disturbed.	
4. Neutral White		3) Locate boxes in masonry walls so that only corner need be cut from masonry units.		
5. Ground Green		c. Do not use sectional boxes unless approved by Architect/Engineer.		
		d. Adjust outlet mounting height to grade with specified location for equipment served.		
		4. Pull Boxes and Junction Boxes: Locate pull boxes and junction boxes above removable ceilings or in electrical rooms, utility rooms, or storage areas.		

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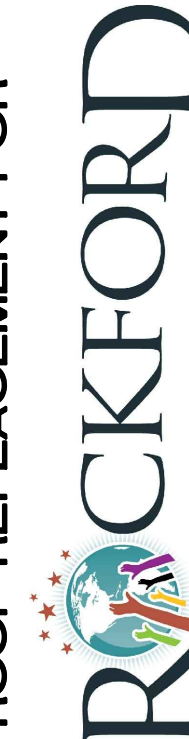


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