

A D D E N D U M N O . 4

**ROOF REPLACEMENT AND RELATED WORK
WESTERN ELEMENTARY SCHOOL
NAUGATUCK, CT
KBA #15037.00**

Date: February 9, 2016
Page: 1 of 1

The following changes to the Project Manual shall become a part of the Drawings, Specifications, Bidding Requirements and Contract Documents; superseding previously issued Drawings, Specifications, Bidding Requirements, Contract Documents and Addenda, to the extent modified by this Addendum.

CLARIFICATIONS

Sketches SKA 4.01 through SKA 4.08 are changes and modifications that are to be incorporated into the bid documents for bidding.

CHANGES TO DRAWINGS

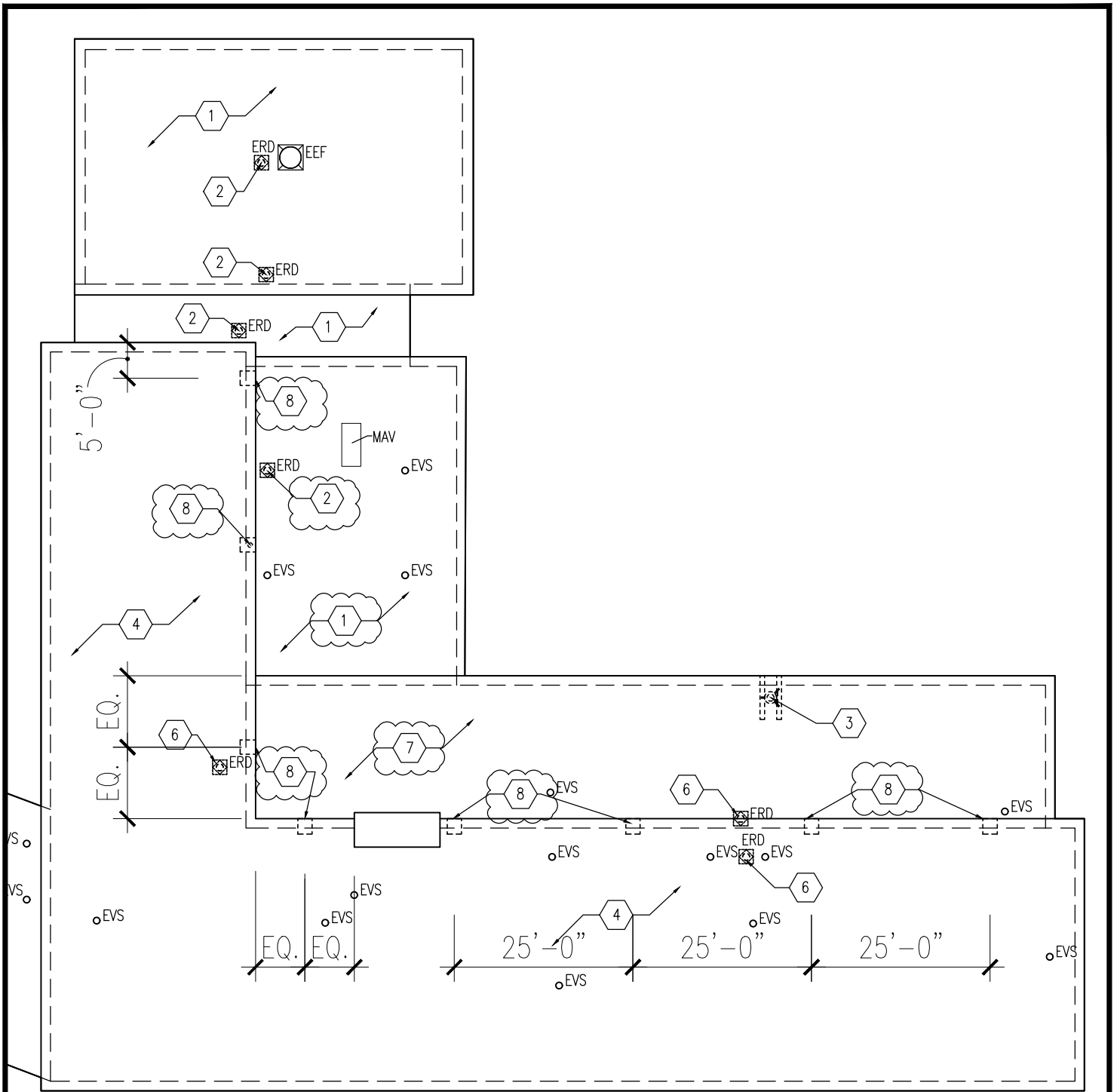
A3.00 DEMOLITION PLAN
See attached SKA 4.01 and SKA 4.02.

A3.01 ROOF PLAN
See attached SKA 4.03, SKA 4.04, SKA 4.05 and SKA 4.06.

A3.02 ROOF DETAILS
See attached SKA-4.07 and SKA-4.08.

ATTACHMENTS

Sketches:
SKA 4.01, SKA 4.02, SKA 4.03, SKA 4.04, SKA 4.05, SKA 4.06, SKA-4.07 and SKA-4.08.



**REFER TO SKA4.02
FOR ADDITIONAL
INFORMATION**



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CONSULTANT:

PROJECT:
**ROOF
REPLACEMENT
AT WESTERN
ELEMENTARY
SCHOOL**

THIS SKETCH TO
BE READ IN
CONJUNCTION
WITH THE
CONTRACT
DOCUMENTS

TITLE: **(REVISED) PARTIAL DEMOLITON
ROOF PLAN**

DATE: 2/9/16
SCALE: N.T.S.

SKETCH GENERATED FOR:				
ADDENDUM	R.R.F.I.	A.S.I.	P.R.	C.C.D.
4	-	-	-	-
REFERENCE DETAIL/SHEET: A3.00				
DRAWN: CC		DRAWING NO.:		
PROJECT NO.: 15037.00		SKA4.01		

ROOF DEMOLITION PLAN LEGEND



EEF

EXISTING EXHAUST FAN TO BE REMAIN



ERD

EXISTING ROOF DRAIN TO BE REMOVED



EVS

EXISTING VENT STACK

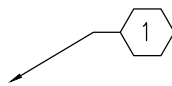
N.P.S.

NOT IN PROJECT SCOPE

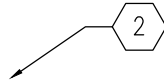


REMOVE 10" WIDE CONCRETE
BACK SLOPE

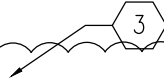
ROOF DEMOLITION KEY NOTES



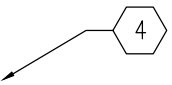
REMOVE ALL EXISTING ROOFING MATERIAL DOWN TO DECK (WHERE INDICATED) INCLUDING BUT NOT LIMITED TO: MEMBRANE, MEMBRANE FLASHING, AND INSULATION (TYP).



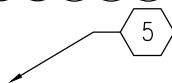
REMOVE EXISTING ROOF DRAIN



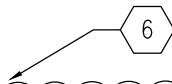
REMOVE EXISTING ROOF TOP EQUIPMENT



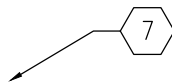
ON CONCRETE DECKS REMOVE ALL EXISTING ROOFING MATERIAL DOWN TO AND INCLUDING GRAVEL ON COAL TAR PITCH (WHERE INDICATED) INCLUDING BUT NOT LIMITED TO: MEMBRANE, MEMBRANE FLASHING, AND INSULATION. COAL TAR PITCH TO REMAIN AS MOISTURE BARRIER.



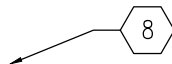
REMOVE EXISTING DRAIN BASKET (EXISTING ROOF DRAIN BOWL TO REMAIN).



REMOVE EXISTING DRAIN BASKET (EXISTING ROOF DRAIN BOWL TO BE CAPPED).



REMOVE ALL EXISTING ROOF MATERIALS DOWN TO CONCRETE DECK, INCLUDING COAL TAR PITCH BUILT UP ROOFING ON 1" OF FIBER GLASS INSULATION.



DEMO DOWN TO LEVEL OF CONCRETE DECK 10" WIDE SECTION OF CONCRETE BACK SLOPE



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SKETCH GENERATED FOR:

ADDENDUM	R.R.F.I.	A.S.I.	P.R.	C.C.D.
4	-	-	-	-

REFERENCE DETAIL/SHEET: **A3.00**

TITLE: **REVISED ROOF DEMOLITION
LEGEND AND KEY NOTES**

DATE: 2/8/16

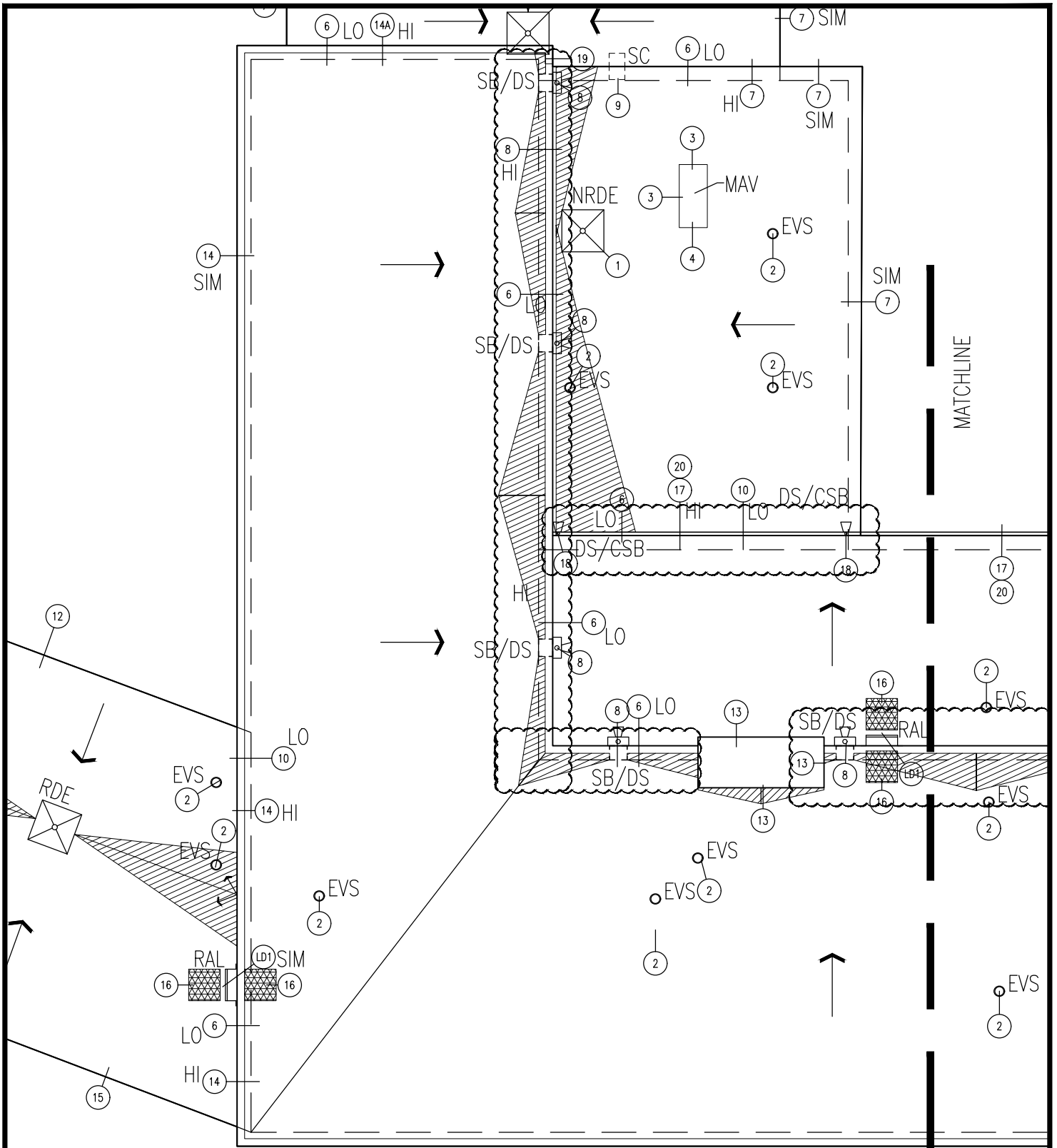
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DRAWING NO.:

SCALE: N.T.S.

PROJECT NO.: 15037.00

SKA4.02




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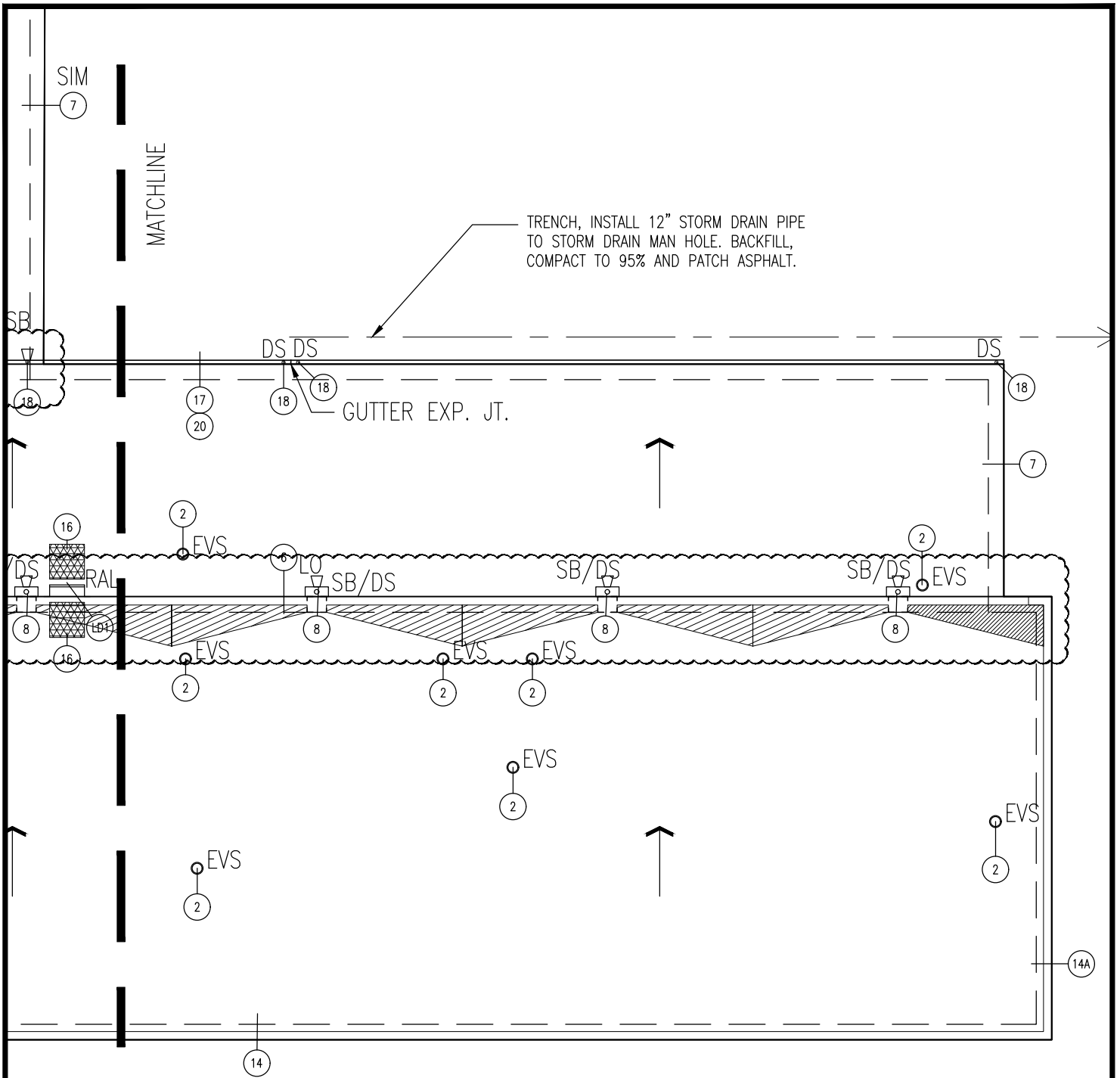
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SKETCH GENERATED FOR:				
ADDENDUM	R.R.F.I.	A.S.I.	P.R.	C.C.D.
4	-	-	-	-
REFERENCE DETAIL/SHEET: A3.01				

TITLE: (REVISED) PARTIAL ROOF PLAN		
DATE: 2/8/16	DRAWN: CC	DRAWING NO.:
SCALE: N.T.S.	PROJECT NO.: 15037.00	SKA4.03



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ADDENDUM	R.R.F.I.	A.S.I.	P.R.	C.C.D.
4	-	-	-	-
REFERENCE DETAIL/SHEET: A3.01				

TITLE: **(REVISED) PARTIAL ROOF PLAN**

DATE: 2/8/16	DRAWN: CC	DRAWING NO.:
SCALE: N.T.S.	PROJECT NO.: 15037.00	SKA4.04













REVISED ROOF GENERAL NOTES #22

22. IF PLASTER CEILINGS BENEATH CONCRETE DECKS ARE DISTURBED REFER TO ASBESTOS ABATEMENT SPECIFICATIONS FOR REQUIRED PROCEDURES. WHEN WORK IS COMPLETED PAINT AFFECTED AREAS TO MATCH ADJACENT FINISHES.

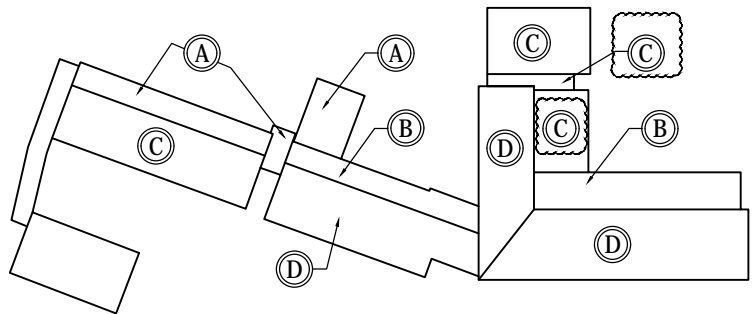
ADD ROOF GENERAL NOTE #24

24. ALL REMAINING ACTIVE DRAINS AND PIPES ARE TO BE CLEANED AND SNAKED OUT OF ALL DEBRIS.

ROOF PLAN LEGEND

-  AREA OF NEW CRICKET
-  AREA OF TRAFFIC PAD
-  EXISTING EXHAUST FAN
-  NEW ROOF DRAIN & HORIZONTAL PIPING IN NEW LOCATION WITH 4'X4' SUMP
-  NEW ROOF DRAIN BASKET AT EXISTING DRAIN LOCATION WITH 4'X4' SUMP
-  EXISTING VENT STACK
-  DIRECTION OF ROOF PITCH
-  NEW ROOF ACCESS LADDER
-  SCUPPER
-  GUTTER & DOWNSPOUT
-  SCUPPER BOX, DOWNSPOUT, & CONCRETE SPLASH BLOCK
-  GUTTER, DOWNSPOUT, & CONCRETE SPLASH BLOCK

**ROOF CONSTRUCTION TYPE
KEY PLAN**



ROOF CONSTRUCTION TYPES

- (A)** FULLY ADHERED 090 MIL SINGLE-PLY EPDM ON 1/4" ROOF COVER BOARD ON 1/4" PER FOOT TAPERED INSULATION ON 2" OF RIGID ISO INSULATION ON 2" OF RIGID ISO INSULATION ON EXISTING METAL DECK.
- (B)** FULLY ADHERED 090 MIL SINGLE-PLY EPDM ON 1/4" ROOF COVER BOARD ON 1/4" PER FOOT TAPERED INSULATION ON 2" OF RIGID ISO INSULATION ON EXISTING CONC. DECK.
- (C)** FULLY ADHERED 090 MIL SINGLE-PLY EPDM ON 1/4" ROOF COVER BOARD ON 1/4" PER FOOT TAPERED INSULATION ON 1 1/2" OF RIGID ISO INSULATION ON EXISTING METAL DECK.
- (D)** FULLY ADHERED 090 MIL SINGLE-PLY EPDM ON 1/4" ROOF COVER BOARD ON 1/4" PER FOOT TAPERED INSULATION ON 1 1/2" OF RIGID ISO INSULATION ON EXISTING CONC. DECK.



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4	-	-	-	-
REFERENCE DETAIL/SHEET: A3.01				
TITLE: REVISED ROOF KEY PLAN, LEGEND, NOTES, AND CONSTRUCTION TYPES				
DRAWN: CC		DRAWING NO.:		
PROJECT NO.: 15037.00		SKA4.05		

**AVERAGE R-VALUE CALCULATIONS - ROOF TYPE A
EPDM MEMBRANE ON METAL DECK**

OUTSIDE OF AIR VALUE:	0.17
EPDM MEMBRANE:	0.33
1/4" ROOF COVER BOARD:	0.28
(AVERAGE) INSULATION ASSEMBLY- 5 1/4":	30.60
EXISTING METAL DECK:	0.00
INSIDE AIR VALUE:	0.61

R-VALUE: 31.99

U-TOTAL (1/R): 0.031

**AVERAGE R-VALUE CALCULATIONS - ROOF TYPE C
EPDM MEMBRANE ON METAL DECK**

OUTSIDE OF AIR VALUE:	0.17
EPDM MEMBRANE:	0.33
1/4" ROOF COVER BOARD:	0.28
(AVERAGE) INSULATION ASSEMBLY - 5 1/2":	31.50
EXISTING METAL DECK:	0.00
INSIDE AIR VALUE:	0.61

R-VALUE: 32.89

U-TOTAL (1/R): 0.030

**AVERAGE R-VALUE CALCULATIONS - ROOF TYPE B
EPDM MEMBRANE ON CONCRETE DECK**

OUTSIDE OF AIR VALUE:	0.17
EPDM MEMBRANE:	0.33
1/4" ROOF COVER BOARD:	0.28
(AVERAGE) INSULATION ASSEMBLY - 4 1/2":	25.60
EXISTING CONCRETE DECK:	0.00
INSIDE AIR VALUE:	0.61

R-VALUE: 26.99

U-TOTAL (1/R): 0.037

**AVERAGE R-VALUE CALCULATIONS - ROOF TYPE D
EPDM MEMBRANE ON CONCRETE DECK**

OUTSIDE OF AIR VALUE:	0.17
EPDM MEMBRANE:	0.33
1/4" ROOF COVER BOARD:	0.28
(AVERAGE) INSULATION ASSEMBLY- 5 1/2":	31.50
EXISTING CONCRETE DECK:	0.00
INSIDE AIR VALUE:	0.61

R-VALUE: 32.89

U-TOTAL (1/R): 0.030



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ADDENDUM	R.R.F.I.	A.S.I.	P.R.	C.C.D.
4	-	-	-	-

REFERENCE DETAIL/SHEET: A3.01

TITLE: **NEW AVERAGE R-VALUE CHARTS**

DATE: 2/8/16

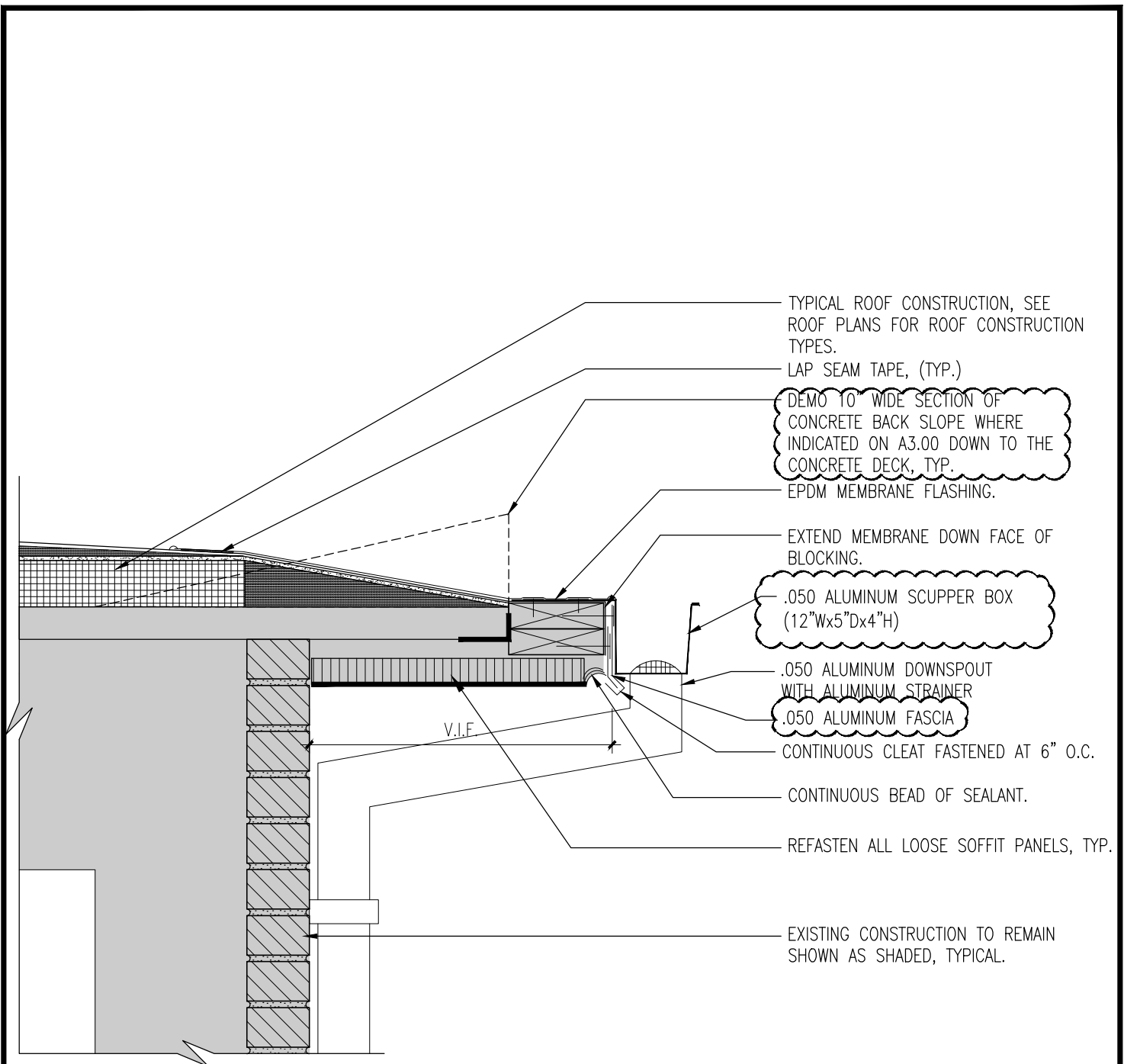
DRAWN: CC

DRAWING NO.:

SCALE: N.T.S.

PROJECT NO.: 15037.00

SKA4.06



8 **DETAIL**
SCUPPER BOX & DOWNSPOUT

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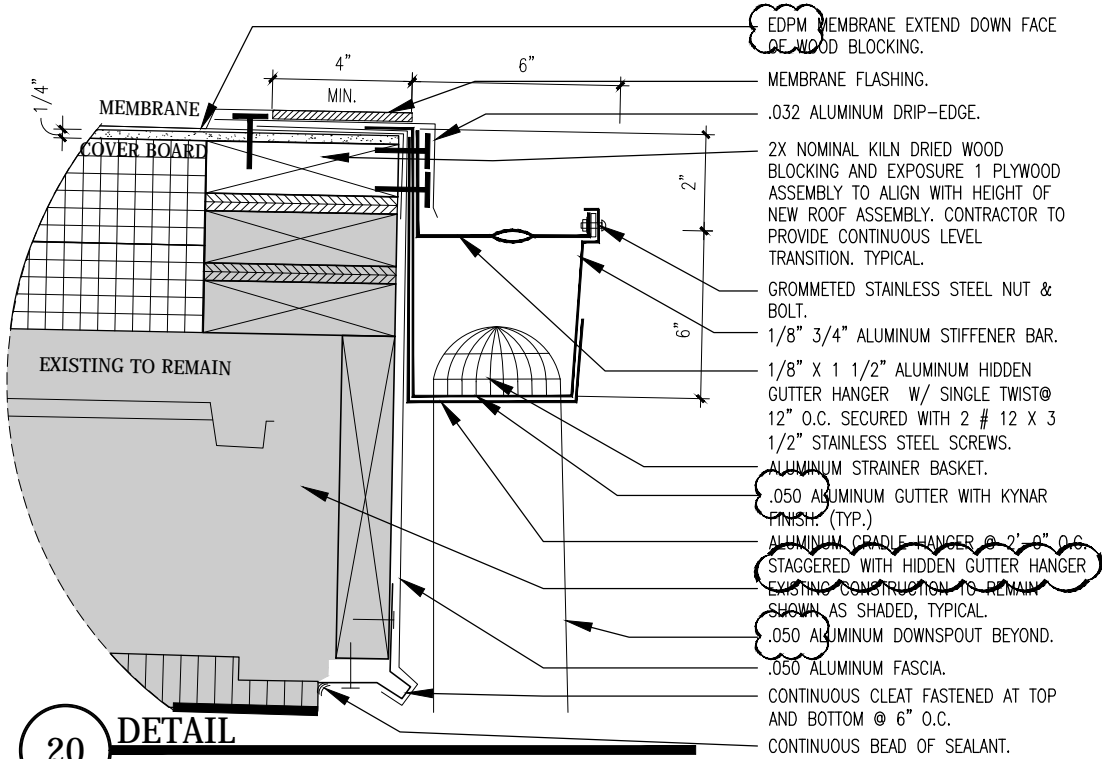
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SKETCH GENERATED FOR:				
ADDENDUM	R.R.F.I.	A.S.I.	P.R.	C.C.D.
4	-	-	-	-
REFERENCE DETAIL/SHEET: A3.02				
TITLE: REVISED SCUPPER BOX, AND DOWNSPOUT DETAIL				
DATE: 2/8/16	DRAWN: XXX	DRAWING NO.:		
SCALE: N.T.S.	PROJECT NO.: 15037.00	SKA4.07		



20 **DETAIL**
TYPICAL DETAIL @ GUTTER

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	4	-	-	-	-
REFERENCE DETAIL/SHEET: A3.02					
TITLE: REVISED DETAIL @ GUTTER					
DATE: 2/8/16	DRAWN: CC		DRAWING NO.:		
SCALE: N.T.S.	PROJECT NO.: 15037.00		SKA4.08		