

**BUILDING 4 - EXISTING ROOF PLAN**  
SCALE: 1/8" = 1'-0"

**NOTE:**  
ROOFING CONTRACTOR SHALL VERIFY "EXISTING ROOF WARRANTY", CONTRACTOR MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO PRESERVE WARRANTY.

**ROOFING PLAN REVIEW CHECKLIST**

- PERMITS WITHIN HIGH WIND AREAS SHALL BE REQUIRED FOR ALL WORK IN CONNECTION WITH THE APPLICATION, REPAIR OR MAINTENANCE OF ANY ROOFING COMPONENT OR ANY ROOFING ASSEMBLY AND/OR ANY OF ITS COMPONENTS. FBC 14, SECTION 1812.3.
  - PERMIT REQUIRED FOR ALL NEW ROOFING CONSTRUCTION, INCLUDING RECOVERING AND REPAIRING. REPAIR OR MAINTENANCE SHALL HAVE A UNIFORM ROOFING PERMIT APPLICATION AS ESTABLISHED BY THE AUTHORITY HAVING JURISDICTION, COMPLETED AND EXECUTED BY A LICENSED CONTRACTOR. FBC 14, SECTION 1812.3.1.
  - ROOF PLAN WITH REFERENCED DETAIL ANNOTATIONS. FBC 14, SECTION 107.1.1.
  - ROOF PLAN WITH DESIGN UPLIFT PRESSURES WITH DELINEATED ZONES. FBC 14, SECTION 1600.4.
  - ROOF DETAILS, TYPICAL AND SPECIFIC TO ROOF CONDITIONS. FBC 14, SECTION 1512-1524, TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES, LATEST'S DESIGN MATERIAL STANDARDS.
  - ROOF PLAN WITH SPECIFIC ELEVATIONS AT DECK, PARAPETS, INDICATING WATER FLOW AT HIGH AND LOW POINTS, ESPECIALLY AT CRITICAL JUNCTURES AND ROOF COMPONENTS. FBC 14, SECTION 107.1.5.
  - ROOF DRAINAGE CALCULATIONS. FBC 14, SECTION 1514.4, SECTION 1617, FBC 14 PLUMBING, SECTION 1607.
  - ROOF WIND LOAD CALCULATIONS FOR DECK, INCLUSIVE OF ALL ROOF ACCESSORIES, INCLUDE COMPONENTS AND/OR EQUIPMENT THAT MAY DISLODGE AND CAUSE DAMAGE BOTH FROM THE STRUCTURE AND/OR A POINT OF WATER INTRUSION TO BUILDING ENVELOPE. FBC 14, SECTION 483.22.4.2, SECTION 1522, SECTION 1632-1.
  - IDENTIFY METHOD, TYPE, MATERIAL AND BRACING FOR ALL ATTACHMENTS REQUIRED TO MEET UPLIFT PRESSURES ON ROOF. PROVIDE COMPONENTS INCLUDING: ACCESSORIES AND/OR EQUIPMENT IN THE FIELD, PERIMETER AND CORNER ZONES. FBC 14, SECTION 1612, SECTION 1514.7, SECTION 1628.1, 1645.1.1, 1656.1, 1669.1.
  - PROVIDE NOTICE OF ACCEPTANCE INCLUSIVE OF FRONT PAGE, MATERIAL SELECTION, SPECIFIC SYSTEM DESCRIPTION, ALONG WITH SYSTEM AND GENERAL LIMITATIONS. FBC 14, SECTION 1512.
  - PROVIDE CONTRACT SPECIFICATIONS FROM DMS, THAT PERTAIN TO THE SELECTED ROOFING ASSEMBLY IN THE NOTICE OF ACCEPTANCE. FBC 14, SECTION 107.1.1, SECTION 453.4.
  - PROVIDE FIRE DIRECTORY LISTING FOR THE SELECTED ROOFING ASSEMBLY FROM NCA (REQUIRE IN ACCORDANCE WITH ASTM E 108 OR UL 790. FBC 14, SECTION 453.12.1).
  - PROVIDE A NON-EXECUTED TOTAL SYSTEM WARRANTY SPECIMEN BY MANUFACTURER, NON-PRO RATED 20 YEAR WRITTEN FULL WARRANTY, NOT WITH A WIND RISK UP TO 180 MPH, WARRANTY IS TO COVER "ROOFING SYSTEM" AS SPECIFIED IN DIVISION 7 OR DMS. DMS SECTIONS 07010, 07040, 07060, 07090, 07100, 07110, 07120, 07130, 07140, 07150, 07160, 07170, 07180, 07190, 07200, 07210, 07220, 07230, 07240, ETC.
  - PROVIDE A NON-EXECUTED TOTAL SYSTEM WARRANTY SPECIMEN BY MANUFACTURER FOR 5 YEARS, WARRANTY SHALL BE AS SPECIFIED IN DIVISION 7 OF DMS. DMS SECTIONS: 07010, 07040, 07060, 07090, 07100, 07110, 07120, 07130, 07140, 07150, 07160, 07170, 07180, 07190, 07200, 07210, 07220, 07230, 07240, ETC.
  - PROVIDE A NON-EXECUTED "FINAL STATEMENT OF COMPLIANCE" FORM. FBC 14, SECTION 453.12.3.
  - PROVIDE A NON-EXECUTED MANUFACTURER'S ONE YEAR INSPECTION FORM. FBC 14, SECTION 453.12.4.
  - PROVIDE AN AFFIDAVIT AFFIRMING ASBESTOS CONTAINING MATERIALS WILL NOT BE USED IN PROJECT. THIS AFFIDAVIT MUST BE CERTIFIED BY PROFESSIONAL OF RECORD WHEN APPLICABLE. FBC 14, SECTION 453.8.
  - PROVIDE A NON-EXECUTED ASBESTOS ABATEMENT AFFIDAVIT FORM FOR ALL REPAIRS, RECOVERING AND RECOVERY PROJECTS. FBC 14, SECTION 453.8.6.
- PROVIDE ALL APPURTENANT TESTING FOR EXISTING ROOFS AS PRESCRIBED ON THE TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES. FBC 14, CHAPTER 15, TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES.

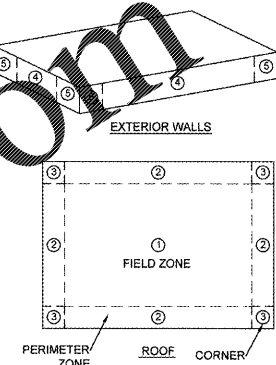
**ABBREVIATIONS**

AAR	ABANDONED AIR PRESSURE RELIEF VALVE
ARV	ABANDONED ROOF VENT
AHU	AIR HANDLER UNIT
ANT	ANTENNAE
ANS	ANTENNAE SUPPORT
AS	ANTENNA SUPPORT
CH	CHIMNEY
DFR	DEFLECTOR
DS	DOWNSPOUT
EC	ELECTRICAL CONDUIT
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELECTRIC LIGHT
ESS	EQUIPMENT STANDPIPE
GSK	GOOSENECK
GTR	GUTTER
HP	HIGH POINT
HS	HEAT STACK
LP	LOW POINT
NOS	NEW OVERFLOW SCUPPER
NORD	NEW OVERFLOW ROOF DRAIN
OS	OVERFLOW SCUPPER
OD	OVERFLOW DRAIN
P	PARAPET
PP	PIPE PENETRATION
PPN	PIPE NIP
RWL	RAIN WATER LEADER
RC	PHOTO CELL
RD	ROOF DRAIN
RF	ROOF FAN
RH	ROOF HATCH
RL	ROOF LADDER
RV	ROOF VENT
CSKY	CLOSED SKYLIGHT
S	SCUPPER
SB	SPLASHBLOCK
SL	SLOPE
SP	SPOTLIGHT
SUP.	SUPPORT
TP	NEW 3" TRAFFIC PAD
RRV	ROOF RELIEF VENT
VTR	VENT THROUGH ROOF
WH	WEATHERHEAD
WF	WALL FAN
WS	WORKING SCUPPER
NOD	NEW OVERFLOW DRAIN

**WIND PRESSURE DIAGRAMS (COMPOSITE)**

WIND LOADS = ASCE-7-10 FBC-2014	DESIGN PRESSURE		
WIND VELOCITY = 180 MPH	ZONE	POS (+)	NEG. (-)
CATEGORY = III	1	+28.7	-70.6
EXPOSURE = C	2	+64.6	-118.5
ROOF LOADS = ASCE-7-10 FBC-2014	3	+64.6	-118.5
DEAD LOAD = Unknown	4	+64.6	-70.0
LIVE LOAD = Unknown	5	+64.6	-86.2
TOTAL LOAD = Unknown			

a = 5.2 Edge strip width



**GENERAL - NEW CONSTRUCTION NOTES**

- EXISTING ROOF TO BE REMAIN AS IS.
- PARAPETS, ROOF DRAINS, SCUPPERS & O.S ARE TO BE REMAIN AS IS.
- NOT USED
- PROVIDE NEW FLASHING AT ALL NEW EQUIPMENT STAND AND SUPPORT AS PER DETAILS.
- PROVIDE NEW TRAFFIC PAD AROUND ALL EQUIPMENT, DOOR AND ROOF ACCESS LADDERS.
- RAISE EXISTING A/C UNITS INTO NEW STANDS.
- PROVIDE EXISTING / NEW FANS WITH INTERNAL ELECTRICAL CONNECTIONS TO AVOID ELECTRICAL PIPE PENETRATIONS ON THE ROOF.
- G.C. DETERMINE IF EXISTING ROOF UNDER WARRANTY. TO PREVENT AVOIDING MANUFACTURER'S WARRANTY, SHALL USE SAME MANUFACTURER'S IS ROOFING MATERIALS FOR ROOF REPAIR. IF ROOF IS UNDER WARRANTY, THE MANUFACTURER AND ROOF TYPE MUST BE IDENTIFIED BY PROF. OF RECORD.

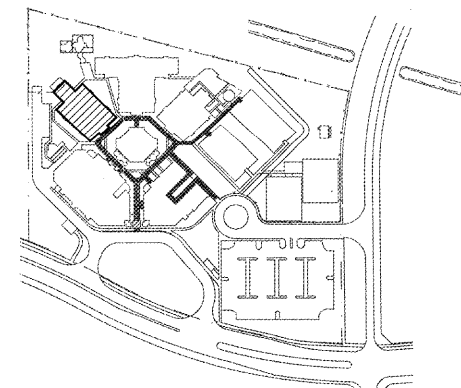
**SCOPE OF WORK - NEW CONSTRUCTION NOTES**

BUILDING 4	1	2	4	5	6	7	8
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**NOTE:**  
REFER TO ROOFING SPECIFICATION AND DESIGN WIND PRESSURE DIAGRAM FOR ROOFING MEMBRANE ANCHORING SYSTEM & SPACING. PER FBC 2-14 FIFTH E.D.

**100% CONSTRUCTION DOCUMENTS**  
**02-16-2018**

**NOTE:**  
ALL DIMENSIONS AND EXACT LOCATION OF ALL EXISTING EQUIPMENT AND ASSOCIATED PARTS AND ACCESSORIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.



**KEYPLAN**  
SCALE: N.T.S.

REVISIONS	BUILDING DEPARTMENT COMMENTS	BUILDING DEPARTMENT COMMENTS	BUILDING DEPARTMENT COMMENTS
02/23/2018	A		
09/06/2018	3		
04/15/2019	4		

**SEA CASTLE ELEMENTARY SCHOOL**  
9600 MIRAMAR BOULEVARD  
MIRAMAR, FLORIDA 33025

**THE SCHOOL BOARD OF BROWARD COUNTY**

**RECEIVED**  
APR 22 2018  
BUILDING DEPARTMENT  
BCPS

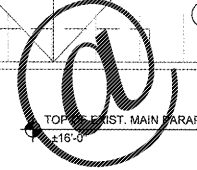
**BUILDING 4 EXISTING ROOF PLAN**

100% CONSTRUCTION DOCUMENTS	AS SHOWN
JOB PHASE:	SCALE:
SB/C PROJECT: P-001632	DATE: 12-15-2017
DATE: 12-15-2017	DRAWN BY: C.A.E.
SCALE:	CHECKED BY: A.O./R.P.
DATE: 12-15-2017	CAD PROJECT NO: 2016.55
DATE: 12-15-2017	CAD PROJECT NO: 2016.55

**XAVIER SALAS**  
AR # 98387

DRAWING No. **A-6.5**  
NEW SHEET

*Order Plans @*



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