Atlantic & Caribbean Roof Consulting, LLC
TESTING & ENGINEERING SERVICES
DADE TEST LABORATORY #15-0224.01 FL. CERT. OF AUTH. #9036

CLIENT:	**PALM BEACH SHORES APARTMENTS**	**PAGE 1 OF 2**
PROJECT NAME:	**PALM BEACH SHORES CONDO.**	**ACRC#16-0350**
PROJECT ADDRESS:	**33 SOUTH OCEAN BLVD** **PALM BEACH SHORES, FLORIDA 33404**	**DATE: 8/15/2016**

DRAINAGE CALCULATIONS 6TH FLOOR DECK

EFFECTIVE DRAINAGE AREA:

7586 SF

PRIMARY DRAINAGE:

PRIMARY DRAINAGE CONSIST OF ONE 3" DRAIN AND TWO 2" DRAINS

I = 5"/HR; Hd = 2.5" (2)(575 SF) + (1)(1760 SF) = 2910 SF < Ae➔NOT GOOD

CONSTRUCT FOUR 6" X 4"MIN. SCUPPERS; INVERTS AT GRADE

CHECK: (4)(1346 SF) + 2910 SF = 8294 SF > Ae➔OK

SECONDARY DRAINAGE:

CONSISTS OF SEVEN 12" X 3" SCUPPERS

H = 2.5"; I=5"/HR

CHECK: (7)(1923 SF) = 13461 SF > Ae➔OK

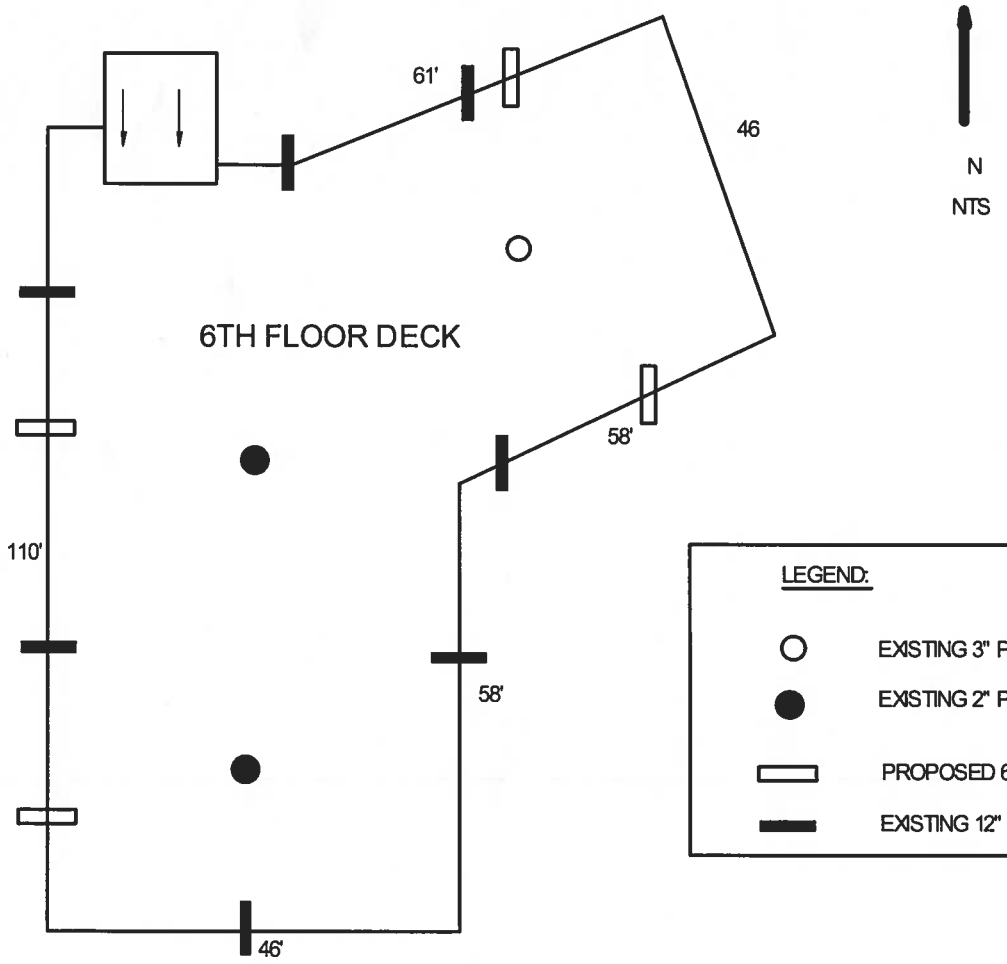
ENLARGE SECONDARY SCUPPERS TO 12" X4"MIN. INVERTS TO BE 2.5" ABOVE GRADE

CALCULATIONS BY:
RANDALL FOWLER, P.E.
NO. 51156

1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net

CLIENT:	**PALM BEACH SHORES APARTMENTS**	**PAGE 2 OF 2**
PROJECT NAME:	**PALM BEACH SHORES CONDO.**	**ACRC#16-0350**
PROJECT ADDRESS:	**33 SOUTH OCEAN BLVD** **PALM BEACH SHORES, FLORIDA 33404**	**DATE: 8/15/2016**

DRAINAGE PLAN 6TH FLOOR DECK



1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net

Atlantic & Caribbean Roof Consulting, LLC
TESTING & ENGINEERING SERVICES
DADE TEST LABORATORY #15-0224.01 FL. CERT. OF AUTH. #9036

CLIENT: PALM BEACH SHORES APARTMENTS

PROJECT NAME: PALM BEACH SHORES CONDO.

ACRC#16-0350

PROJECT ADDRESS: 33 SOUTH OCEAN BLVD
PALM BEACH SHORES, FLORIDA 33404

DATE: 8/15/2016

DRAINAGE CALCULATIONS WEST DECK

EFFECTIVE DRAINAGE AREA:

2239 SF

PRIMARY DRAINAGE:

PRIMARY DRAINAGE CONSIST OF ONE 3" DRAIN

I = 5"/HR; Hd = 2.5" (1)(1760 SF) = 1760 SF < Ae➔NOT GOOD

CONSTRUCT TWO 4" X 4"MIN. SCUPPERS; INVERTS AT GRADE

CHECK: (2)(3680 SF) = 7360 SF > Ae➔OK

SECONDARY DRAINAGE:

CONSISTS OF TWO 11" X 1.5" SCUPPERS

H = 2.5"; I=5"/HR

CHECK: (2)(2468 SF) = 4936 SF > Ae➔OK

ENLARGE SECONDARY SCUPPERS TO 11" X4"MIN. INVERTS TO BE 2.5"

ABOVE PRIMARY DRAIN INVERT

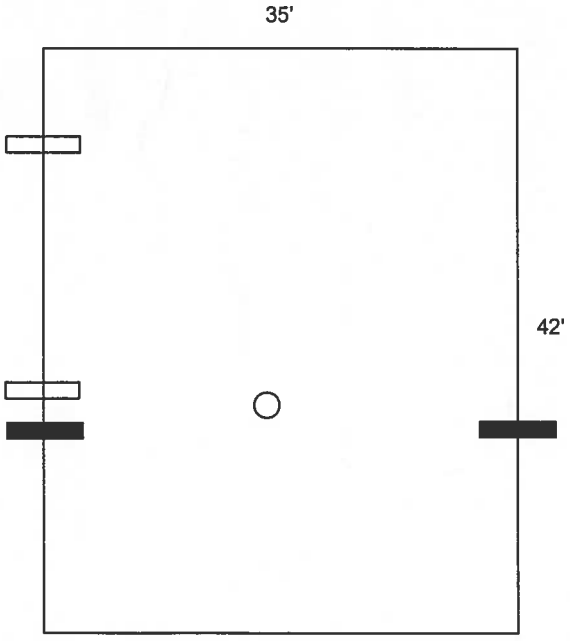
CALCULATIONS BY:
RANDALL FOWLER, P.E.
NO. 51156

8/15/16

1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net

CLIENT:	**PALM BEACH SHORES APARTMENTS**	**PAGE 2 OF 2**
PROJECT NAME:	**PALM BEACH SHORES CONDO.**	**ACRC#16-0350**
PROJECT ADDRESS:	**33 SOUTH OCEAN BLVD** **PALM BEACH SHORES, FLORIDA 33404**	**DATE: 8/15/2016**

DRAINAGE PLAN WEST DECK



N
NTS

LEGEND:

- EXISTING 3" PRIMARY DRAIN
- EXISTING 11" X 1.5" SECONDARY SCUPPER
- PROPOSED 4" X 4"MIN. PRIMARY SCUPPER

1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net

Atlantic & Caribbean Roof Consulting, LLC
TESTING & ENGINEERING SERVICES
DADE TEST LABORATORY #15-0224.01 FL. CERT. OF AUTH. #9036

CLIENT: PALM BEACH SHORES APARTMENTS

PROJECT NAME: PALM BEACH SHORES CONDO.

PROJECT ADDRESS: 33 SOUTH OCEAN BLVD
PALM BEACH SHORES, FLORIDA 33404

ACRC#16-0350

DATE: 8/15/2016

DRAINAGE CALCULATIONS ONE STORY DECK

EFFECTIVE DRAINAGE AREA:

1750 SF

PRIMARY DRAINAGE:

PRIMARY DRAINAGE CONSIST OF ONE 3" DRAIN

I = 5"/HR; (1)(1760 SF) = 1760 SF > Ae➔OK

SECONDARY DRAINAGE:

CONSISTS OF SIX 11" X 1.5" SCUPPERS

H = 2.5"; I=5"/HR

CHECK: (6)(2468 SF) = 14808 SF > Ae➔OK

ENLARGE ALL SECONDARY SCUPPERS TO 11" X4"MIN.

INVERTS TO BE 2.5" ABOVE PRIMARY DRAIN INVERTS

ALL EXISTING SECONDARY SCUPPERS WHICH ARE COVERED TO BE UNCOVERED

CALCULATIONS BY:
RANDALL FOWLER, P.E.
NO. 51156

8/15/16

1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net

Atlantic & Caribbean Roof Consulting, LLC
TESTING & ENGINEERING SERVICES
DADE TEST LABORATORY #15-0224.01 FL. CERT. OF AUTH. #9036

ACRC

CLIENT:	**PALM BEACH SHORES APARTMENTS**	**PAGE 1 OF 1**
PROJECT NAME:	**PALM BEACH SHORES CONDO.**	**ACRC#16-0350**
PROJECT ADDRESS:	**33 SOUTH OCEAN BLVD** **PALM BEACH SHORES, FLORIDA 33404**	**DATE: 8/15/2016**

DRAINAGE CALCULATIONS SOUTH DECK

EFFECTIVE DRAINAGE AREA:

1850 SF

PRIMARY DRAINAGE:

PRIMARY DRAINAGE CONSIST OF ONE 4" DRAIN

I = 5"/HR; (1)(3680 SF) = 3680 SF > Ae→OK

SECONDARY DRAINAGE:

CONSISTS OF SIX 10" X 1.5" SCUPPERS

H = 2.5"; I=5"/HR

CHECK: (10)(2468 SF) = 24680 SF > Ae→OK

ENLARGE ALL SECONDARY SCUPPERS TO 11" X4"MIN.

INVERTS TO BE 2.5" ABOVE PRIMARY DRAIN INVERTS

ALL EXISTING SECONDARY SCUPPERS WHICH ARE COVERED TO BE UNCOVERED

CALCULATIONS BY:
RANDALL FOWLER, P.E.
NO. 51156

8/17/16

1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net

Atlantic & Caribbean Roof Consulting, LLC
TESTING & ENGINEERING SERVICES
DADE TEST LABORATORY #15-0224.01 FL. CERT. OF AUTH. #9036

CLIENT:	**PALM BEACH SHORES APARTMENTS**	**PAGE 1 OF 1**
PROJECT NAME:	**PALM BEACH SHORES CONDO.**	**ACRC#16-0350**
PROJECT ADDRESS:	**33 SOUTH OCEAN BLVD** **PALM BEACH SHORES, FLORIDA 33404**	**DATE: 8/15/2016**

DRAINAGE CALCULATIONS EAST DECK

EFFECTIVE DRAINAGE AREA:

4164 SF

PRIMARY DRAINAGE:

PRIMARY DRAINAGE CONSIST OF TWO 4" DRAINS

I = 5"/HR; (2)(3680 SF) = 7360 SF > Ae➔OK

SECONDARY DRAINAGE:

CONSISTS OF SIX 11" X 1.5" SCUPPERS

H = 2.5"; I=5"/HR

CHECK: (6)(2468 SF) = 14808 SF > Ae➔OK

ENLARGE ALL SECONDARY SCUPPERS TO 11" X4"MIN.

INVERTS TO BE 2.5" ABOVE PRIMARY DRAIN INVERTS

CALCULATIONS BY:
RANDALL FOWLER, P.E.
NO. 51136
8/10/16

1839 NW 29th Street • Oakland Park, Florida 33311 • (954) 742-9515 Phone • (954) 742-9513 Fax
e-mail: esmause@roofconsultant.net / Rfowler@roofconsultant.net