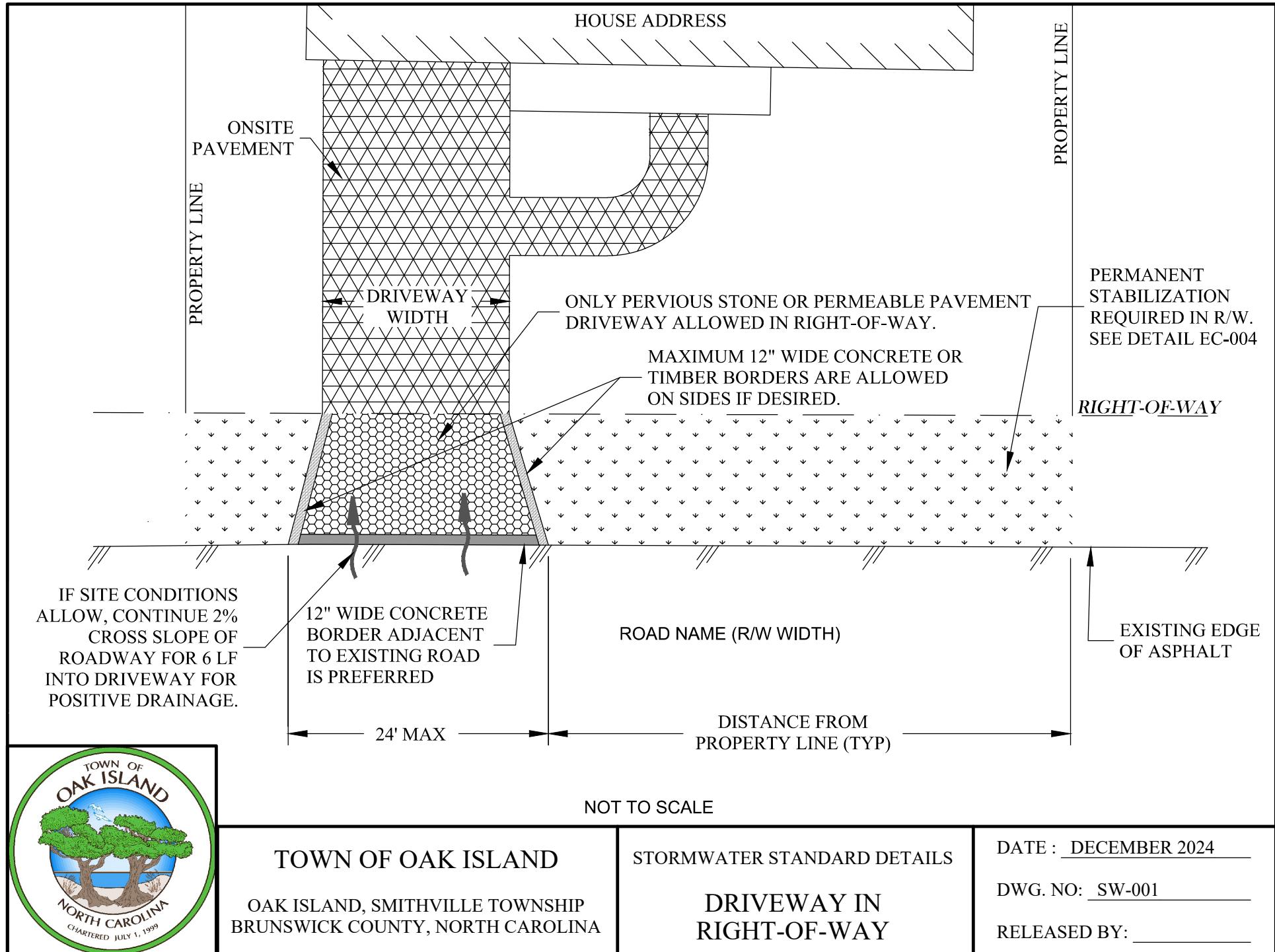
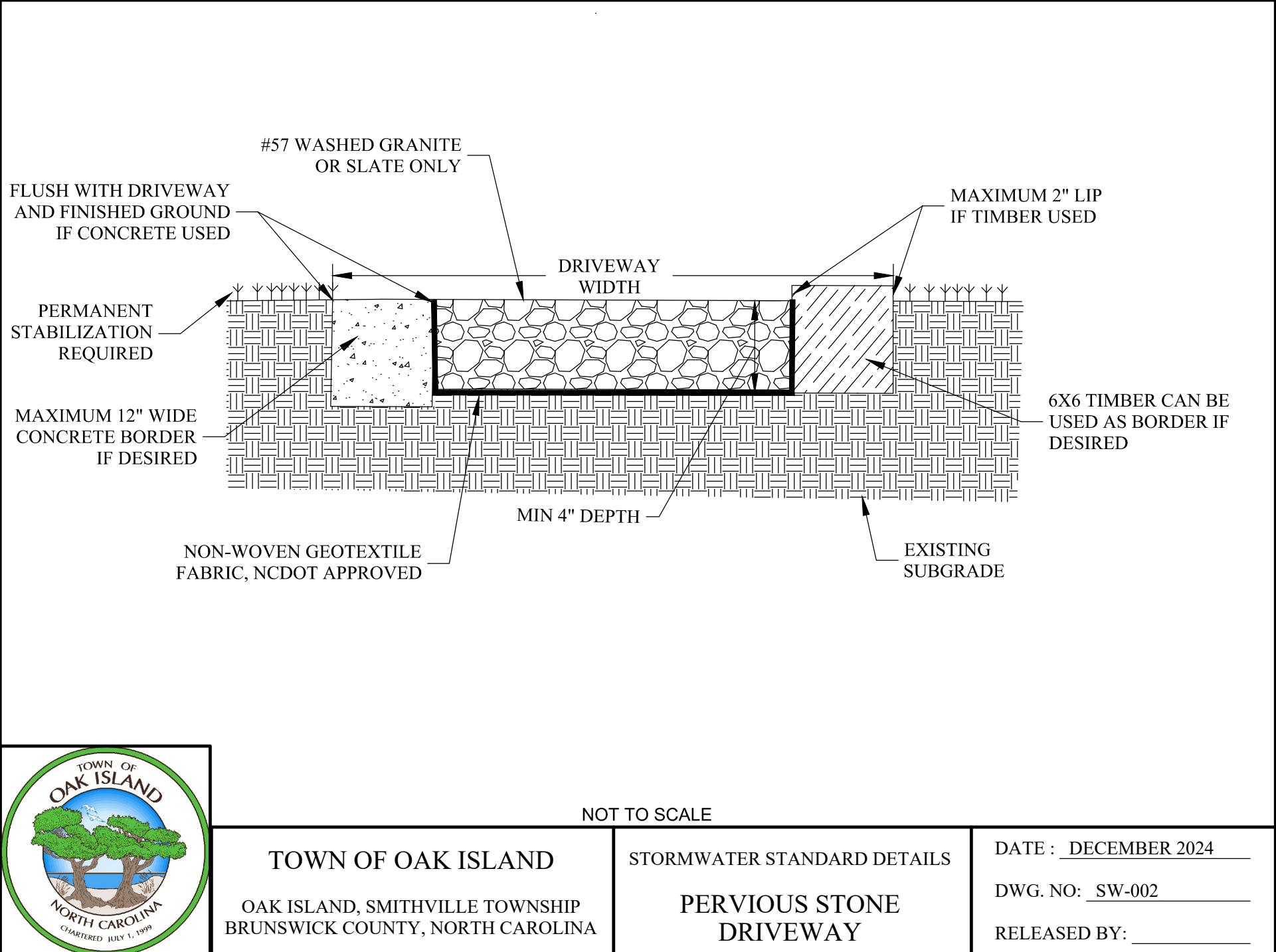
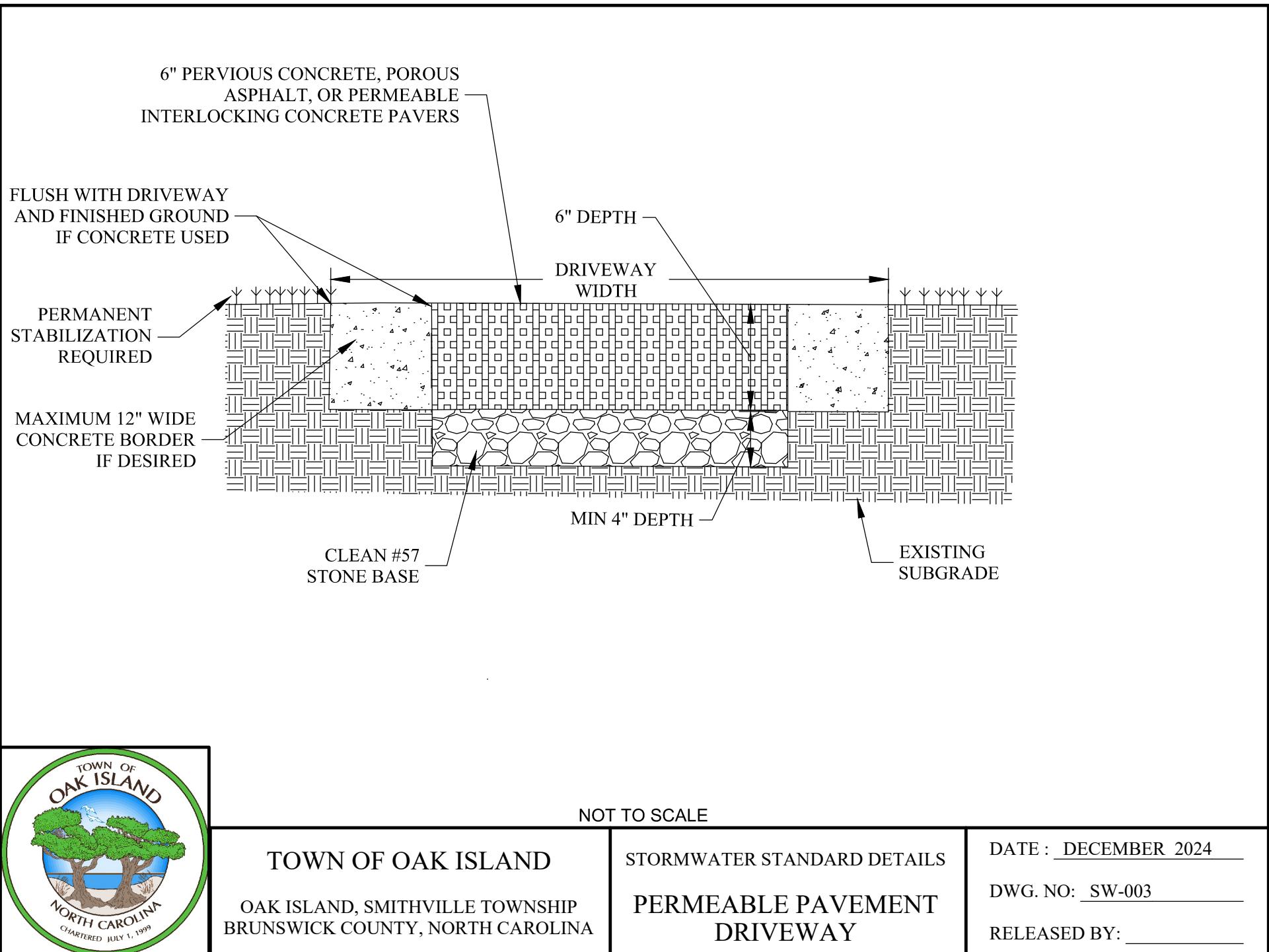


DETAIL #	DETAIL NAME
EC-001A	SILT FENCE 1 OF 2
EC-001B	SILT FENCE 2 OF 2
EC-002	STABILIZATION TIMEFRAMES
EC-003	TEMPORARY SEEDING
EC-004	PERMANENT SEEDING
EC-005	RESIDENTIAL CONSTRUCTION ENTRANCE
EC-006	COMMERCIAL CONSTRUCTION ENTRANCE
EC-007	WIRE MESH & STONE INLET PROTECTION
EC-008	CONCRETE WASHOUT
EC-009	PIPE OUTLET STABILIZATION
EC-010A	ROLLED EROSION CONTROL PRODUCTS 1 OF 2
EC-010B	ROLLED EROSION CONTROL PRODUCTS 2 OF 2
EC-011	SILT SOCK / WATTLE FOR CHECK DAM
EC-012	ROCK CHECK DAM

SW-001	DRIVEWAY IN RIGHT-OF-WAY
SW-002	PERVIOUS STONE DRIVEWAY
SW-003	PERMEABLE PAVEMENT DRIVEWAY
SW-004	EXAMPLE CALCULATIONS FOR INFILTRATION TRENCH
SW-005	EXAMPLE CALCULATIONS QUICK4 CHAMBER
SW-006	ROOF DOWNSPOUT TO INFILTRATION TRENCH
SW-007	ROOF DOWNSPOUT TO QUICK4 CHAMBER
SW-008	QUICK4 PLUS STANDARD CHAMBER PROFILE
SW-009	QUICK4 CHAMBER UNDER DRIVEWAY
SW-010	IMPERVIOUS DRIVEWAY TO INFILTRATION TRENCH
SW-011	IMPERVIOUS POOL PATIO TO INFILTRATION TRENCH
SW-012	ACCESSORY STRUCTURE TO INFILTRATION TRENCH







LOT AREA: 6,600 SF

TOTAL IMPERVIOUS AREA: 2,665 SF

PERCENT IMPERVIOUS: 2,665 SF / 6,600 SF = 40% *

* WHERE SITE EXCEEDS 30% IMPERVIOUS, A STORMWATER PLAN SEALED BY A PROFESSIONAL ENGINEER OR SURVEYOR IS REQUIRED. MAXIMUM 45% IMPERVIOUS AREA ALLOWED

#57 CLEAN WASHED STONE PROVIDES 40% VOID SPACE STORAGE VOLUME

STORAGE REQUIRED FOR HOUSE ROOF AREA (1.5" RUNOFF):

IF ROOF AREA = 2,171 SF

2,171 SF X 1.5/12 = 271.4 CF STORAGE REQUIRED

TRY TRENCH D = 3', W = 3.5'; 3.0 X 3.5. X 0.4 (40% VOIDS) = 4.2 CF STORAGE PROVIDED PER LF OF 3.0' X 3.5' TRENCH

LENGTH OF INFILTRATION TRENCH REQUIRED: 271.4 CF / 4.2 CF = 64.6 OR 65 LINEAR FEET

(2) - 3.0' X 3.5' X 32.5' INFILTRATION TRENCH WITH #57 WASHED STONE PROVIDED

STORAGE REQUIRED FOR IMPERVIOUS DRIVEWAY (1.5" RUNOFF):

494 SF X 1.5/12 = 61.8 CF

D = 3', W = 3.5'; 3.0 X 3.5. 0.4 (40% VOIDS) = 4.2 CF STORAGE PROVIDED PER LF OF 3.0' X 3.5' TRENCH

LENGTH OF INFILTRATION TRENCH REQUIRED: 61.8 CF / 4.2 CF = 14.7 OR 15 LINEAR FEET

(1) - 3.0' X 3.5' X 15' INFILTRATION TRENCH WITH #57 WASHED STONE PROVIDED



NOTE: TREATMENT FOR HOUSE SHALL BE SEPARATED FROM TREATMENT FOR DRIVEWAY BY A MINIMUM OF 3'

TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
EXAMPLE CALCULATIONS
INFILTRATION TRENCH

DATE : DECEMBER 2024

DWG. NO: SW-004

RELEASED BY: _____

LOT AREA: 6,600 SF

TOTAL IMPERVIOUS AREA: 2,665 SF

PERCENT IMPERVIOUS: 2,665 SF / 6,600 SF = 40% *

* WHERE SITE EXCEEDS 30% IMPERVIOUS, A STORMWATER PLAN SEALED BY A PROFESSIONAL ENGINEER OR SURVEYOR IS REQUIRED. MAXIMUM 45% IMPERVIOUS AREA ALLOWED.

3' X 3.5' X 4' QUICK4 STANDARD CHAMBER DETAIL (SEE DETAIL SW-008) PROVIDES 22.1 CF OF STORAGE

STORAGE REQUIRED FOR HOUSE ROOF AREA (1.5" RUNOFF):

2,171 SF X 1.5/12 = 271.4 CF / 22.1 CF = 12.3 OR 13 CHAMBERS REQUIRED

STORAGE REQUIRED FOR IMPERVIOUS DRIVEWAY (1.5" RUNOFF):

494 SF X 1.5/12 = 61.8 CF / 22.1 CF = 2.8 OR 3 CHAMBERS REQUIRED

NOTE: TREATMENT FOR HOUSE SHALL BE SEPARATED FROM TREATMENT FOR DRIVEWAY BY A MINIMUM OF 3'



TOWN OF OAK ISLAND

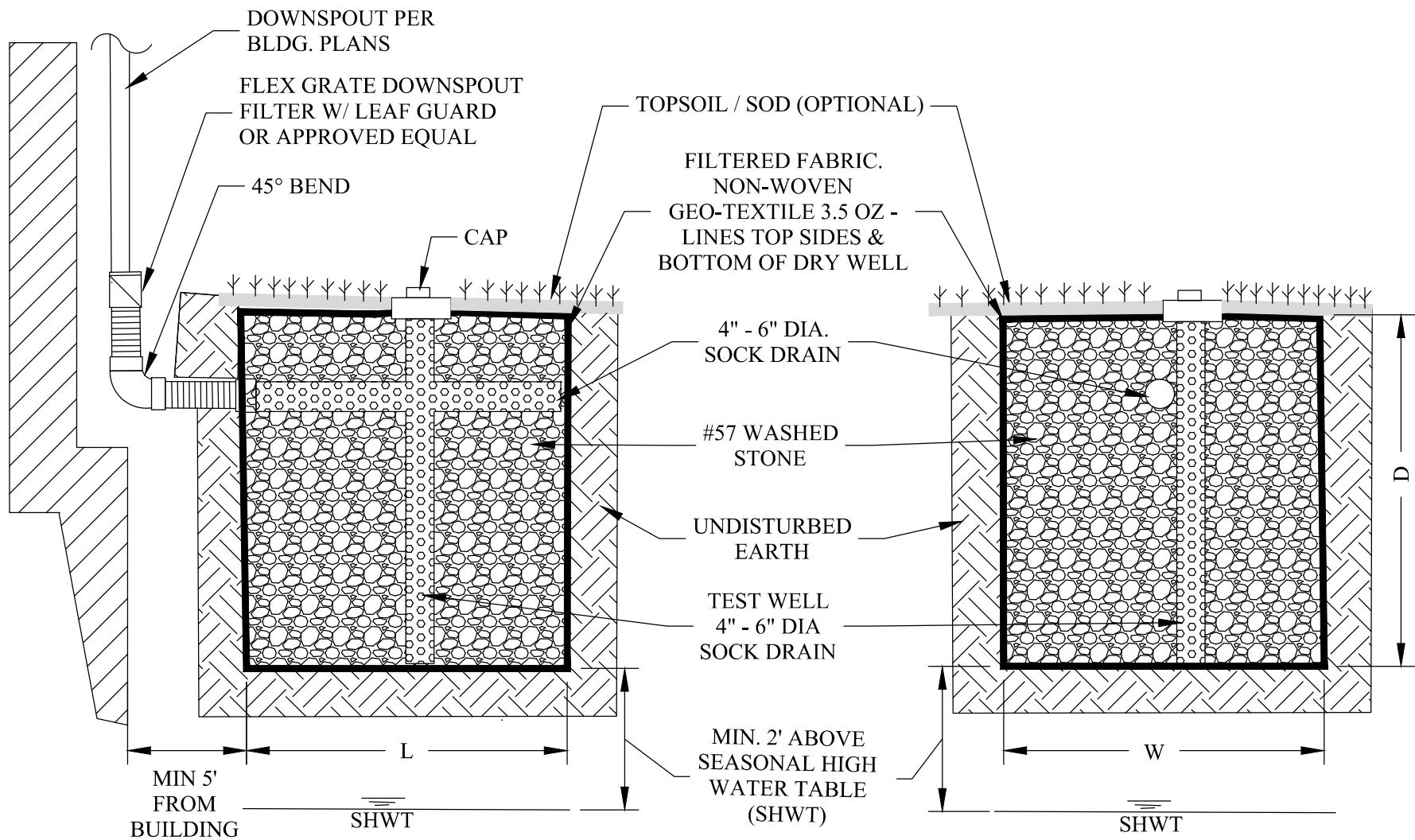
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
EXAMPLE CALCULATIONS
QUICK4 CHAMBER

DATE : DECEMBER 2024

DWG. NO: SW-005

RELEASED BY: _____

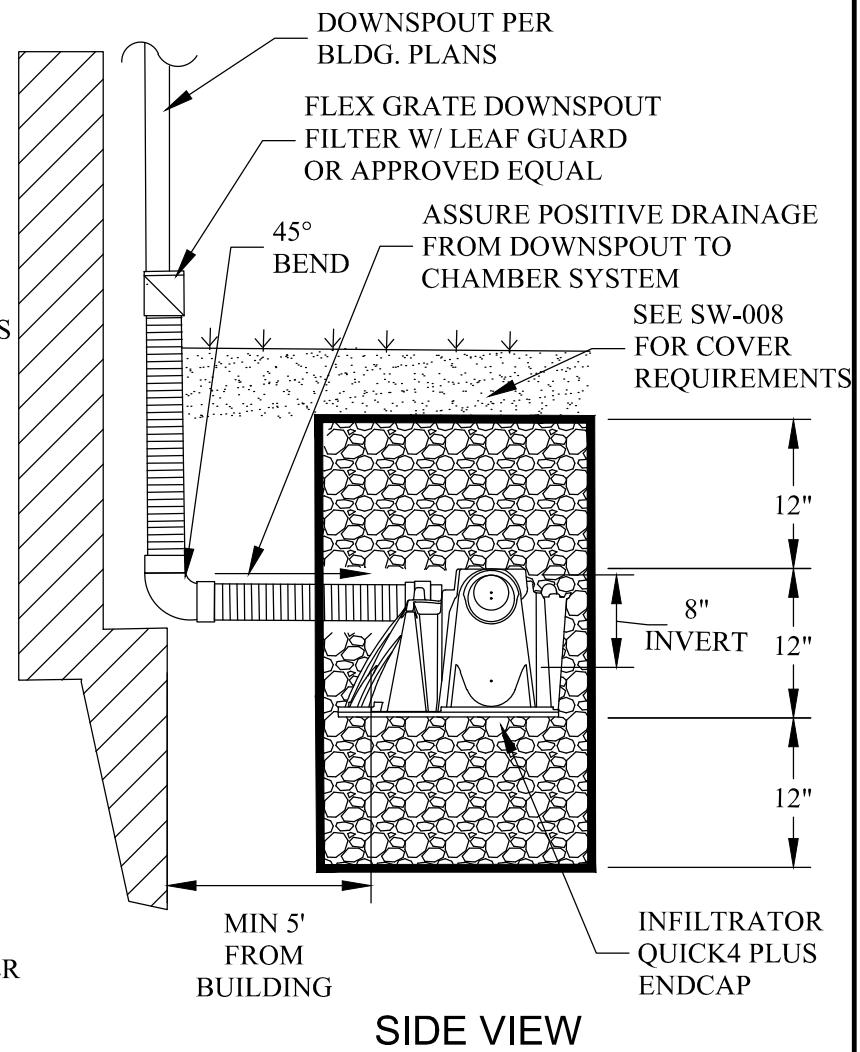
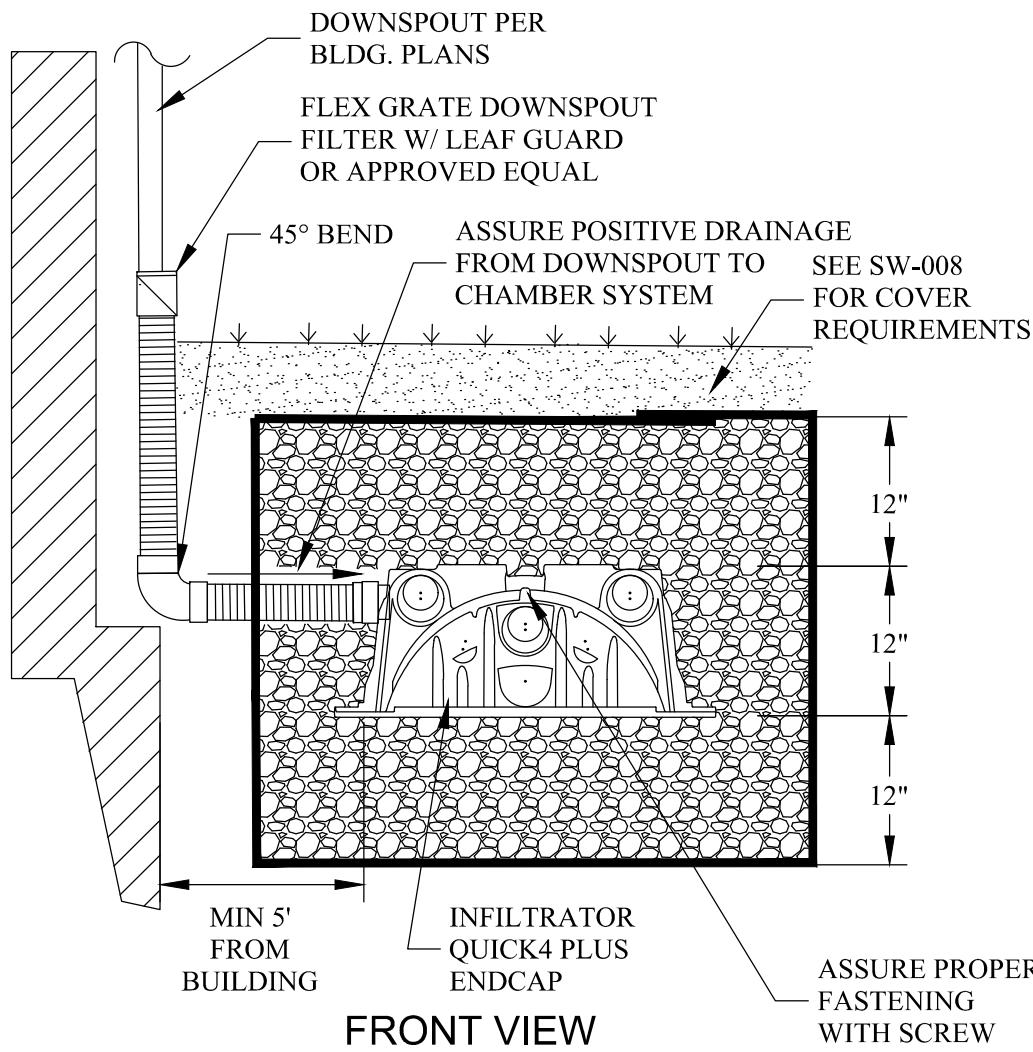


NOT TO SCALE

TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
ROOF DOWNSPOUT TO INFILTRATION TRENCH

DATE : DECEMBER 2024
DWG. NO: SW-006
RELEASED BY: _____

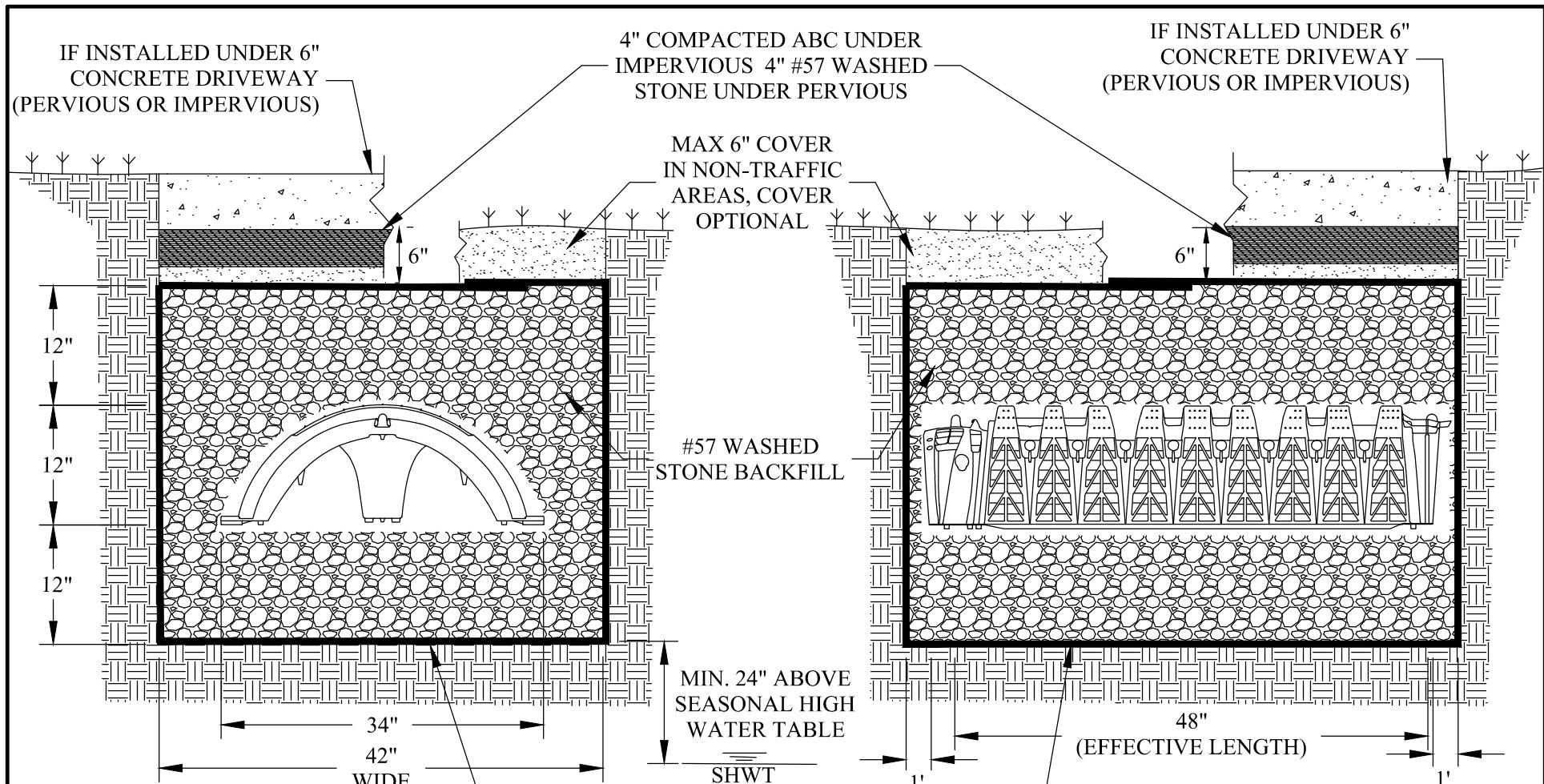


NOT TO SCALE

TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
ROOF DOWNSPOUT TO
QUICK4 CHAMBER

DATE : DECEMBER 2024
DWG. NO: SW-007
RELEASED BY: _____



FRONT VIEW
NOT TO SCALE

CHAMBER VOLUME PROVIDED

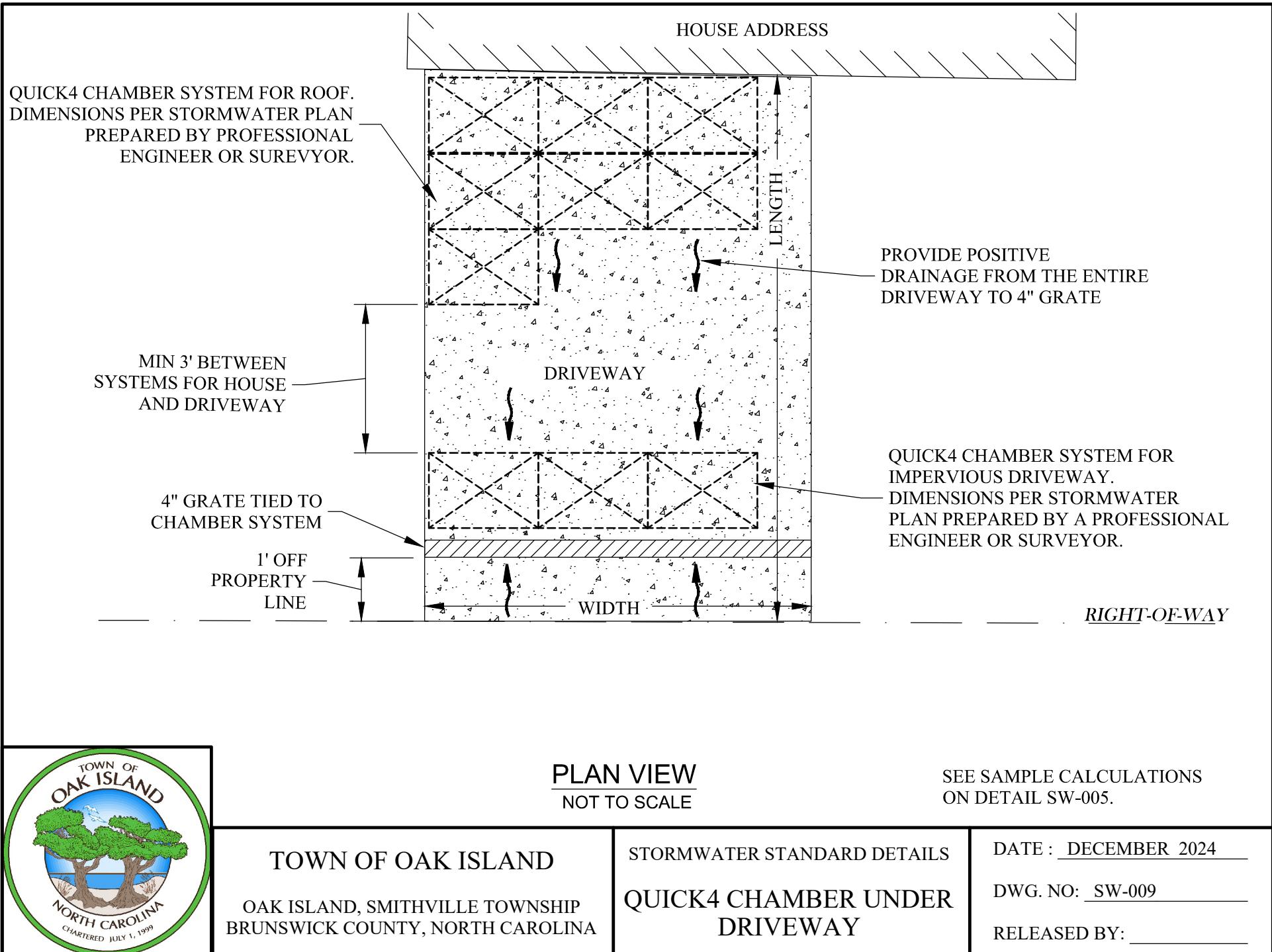
3.0' X 3.5' TRENCH = 22.1 CF PER 4-FT CHAMBER LENGTH

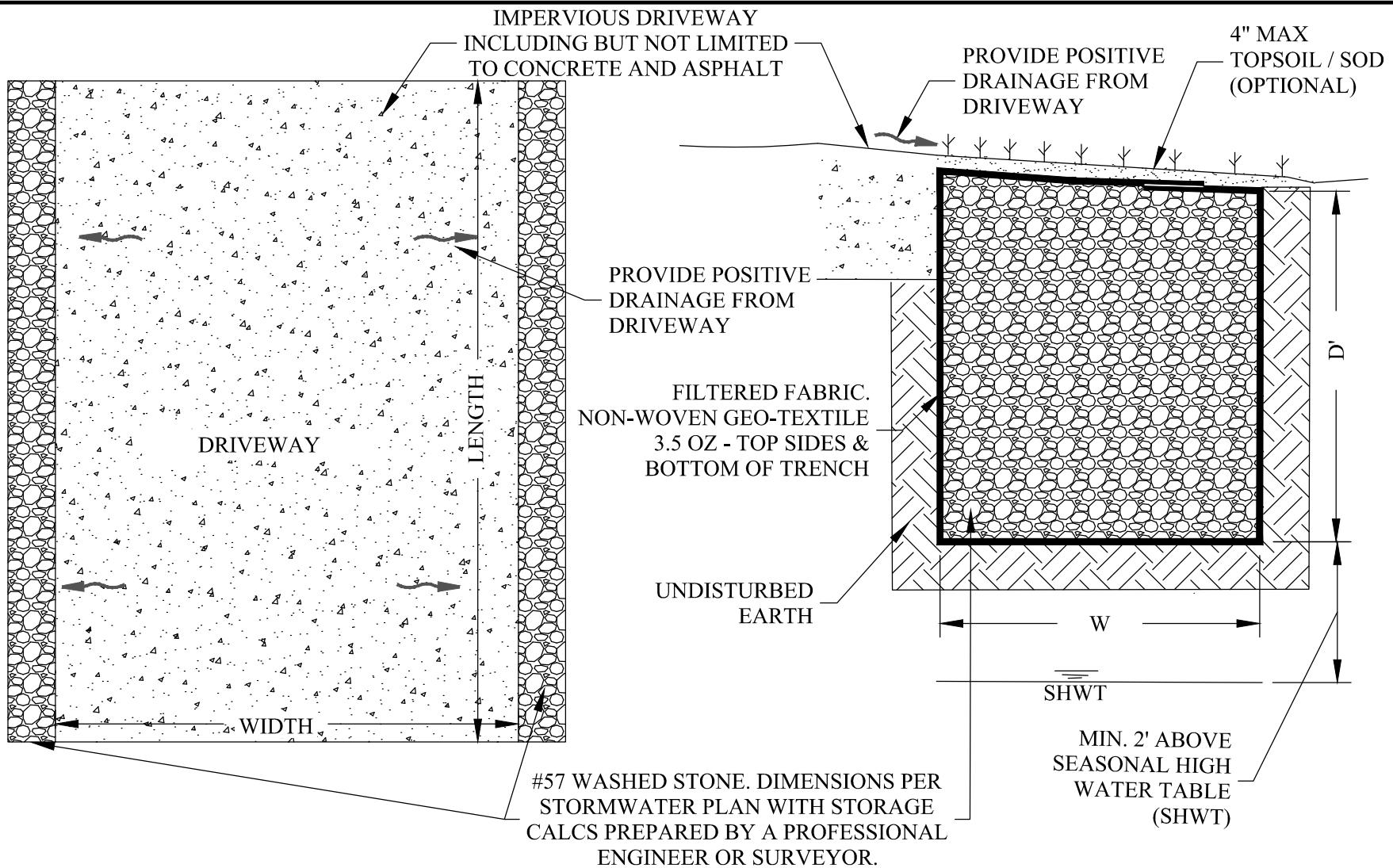


TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
**QUICK4 PLUS STANDARD
CHAMBER PROFILE**

DATE : DECEMBER 2024
DWG. NO: SW-008
RELEASED BY: _____





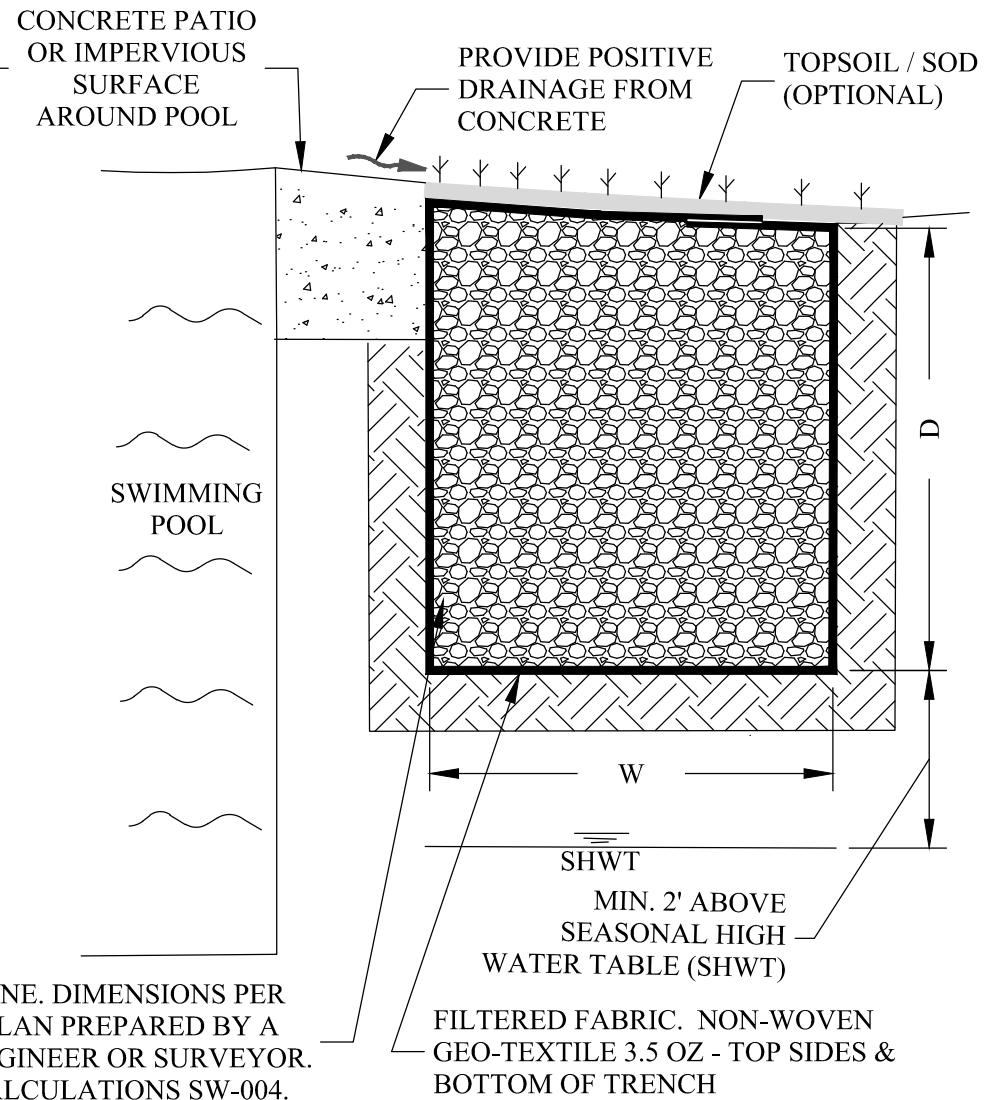
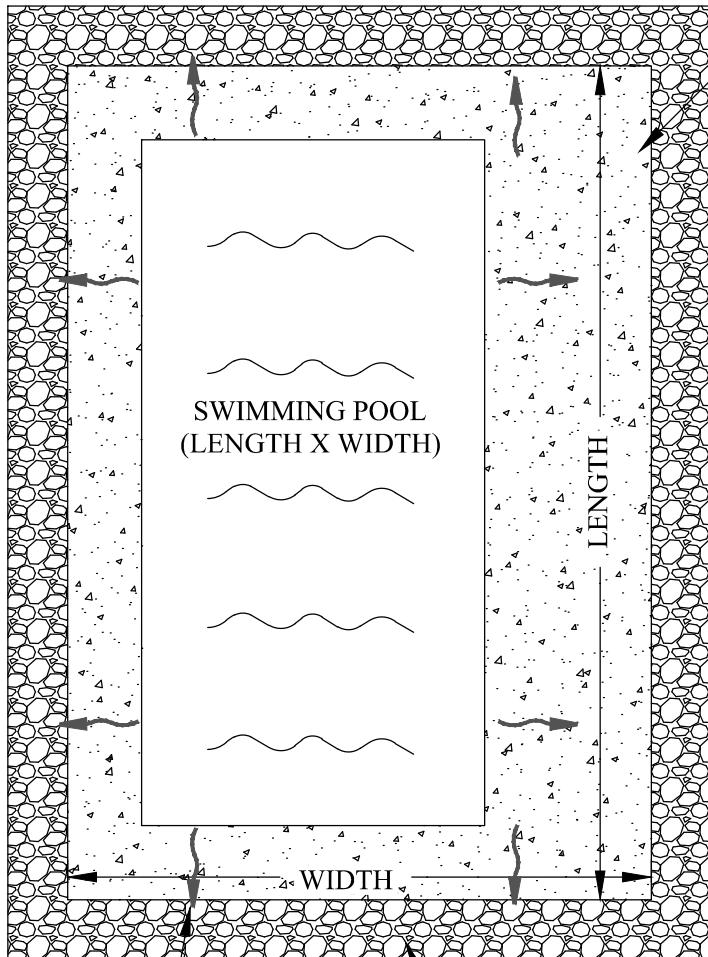
PLAN VIEW
NOT TO SCALE

TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

PROFILE VIEW
NOT TO SCALE

STORMWATER STANDARD DETAILS
**IMPERVIOUS DRIVEWAY
TO INFILTRATION TRENCH**

DATE : DECEMBER 2024
DWG. NO: SW-010
RELEASED BY: _____



PLAN VIEW
NOT TO SCALE

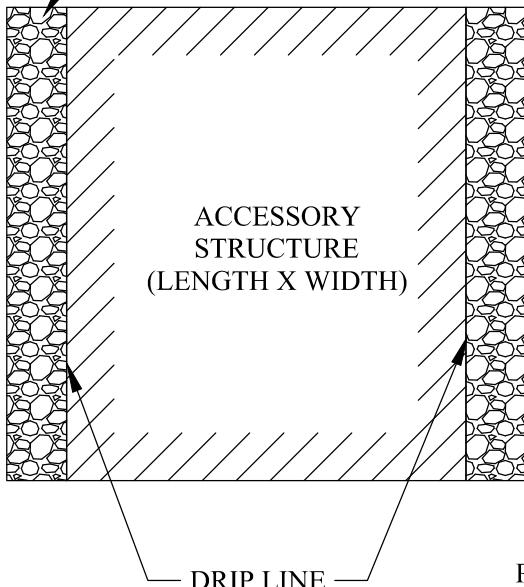
TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

PROFILE VIEW
NOT TO SCALE

STORMWATER STANDARD DETAILS
IMPERVIOUS POOL PATIO
TO INFILTRATION TRENCH

DATE : DECEMBER 2024
DWG. NO: SW-011
RELEASED BY: _____

#57 WASHED STONE. DIMENSIONS PER
STORMWATER PLAN PREPARED BY A
PROFESSIONAL ENGINEER OR SURVEYOR.
SEE EXAMPLE CALCULATIONS SW-004.



PLAN VIEW
NOT TO SCALE

FOR FLAT ROOF,
ASSURE RUNOFF IS
DIRECTED TO TRENCH

DRIP LINE

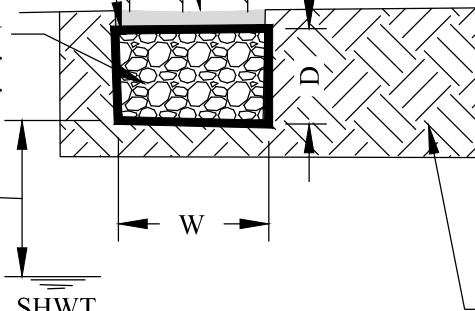
ACCESSORY
STRUCTURE /
RESIDENCE W/
NO GUTTERS

TOPSOIL / SOD
(OPTIONAL)

FILTERED FABRIC.
NON-WOVEN GEO-TEXTILE
3.5 OZ - TOP SIDES &
BOTTOM OF TRENCH

#57 WASHED STONE. DIMENSIONS PER
STORMWATER PLAN PREPARED BY A
PROFESSIONAL ENGINEER OR SURVEYOR.
SEE EXAMPLE CALCULATIONS SW-004.

MIN. 2' ABOVE
SEASONAL HIGH
WATER TABLE
(SHWT)



PROFILE VIEW
NOT TO SCALE



TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
**ACCESSORY STRUCTURE TO
INFILTRATION TRENCH**

DATE : DECEMBER 2024

DWG. NO: SW-012

RELEASED BY: _____

UNDER
CONSTRUCTION



TOWN OF OAK ISLAND
OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS
DRIVEWAY TREATED
TIMBER HEADWALL

DATE : DECEMBER 2024
DWG. NO: SW-013
RELEASED BY: _____