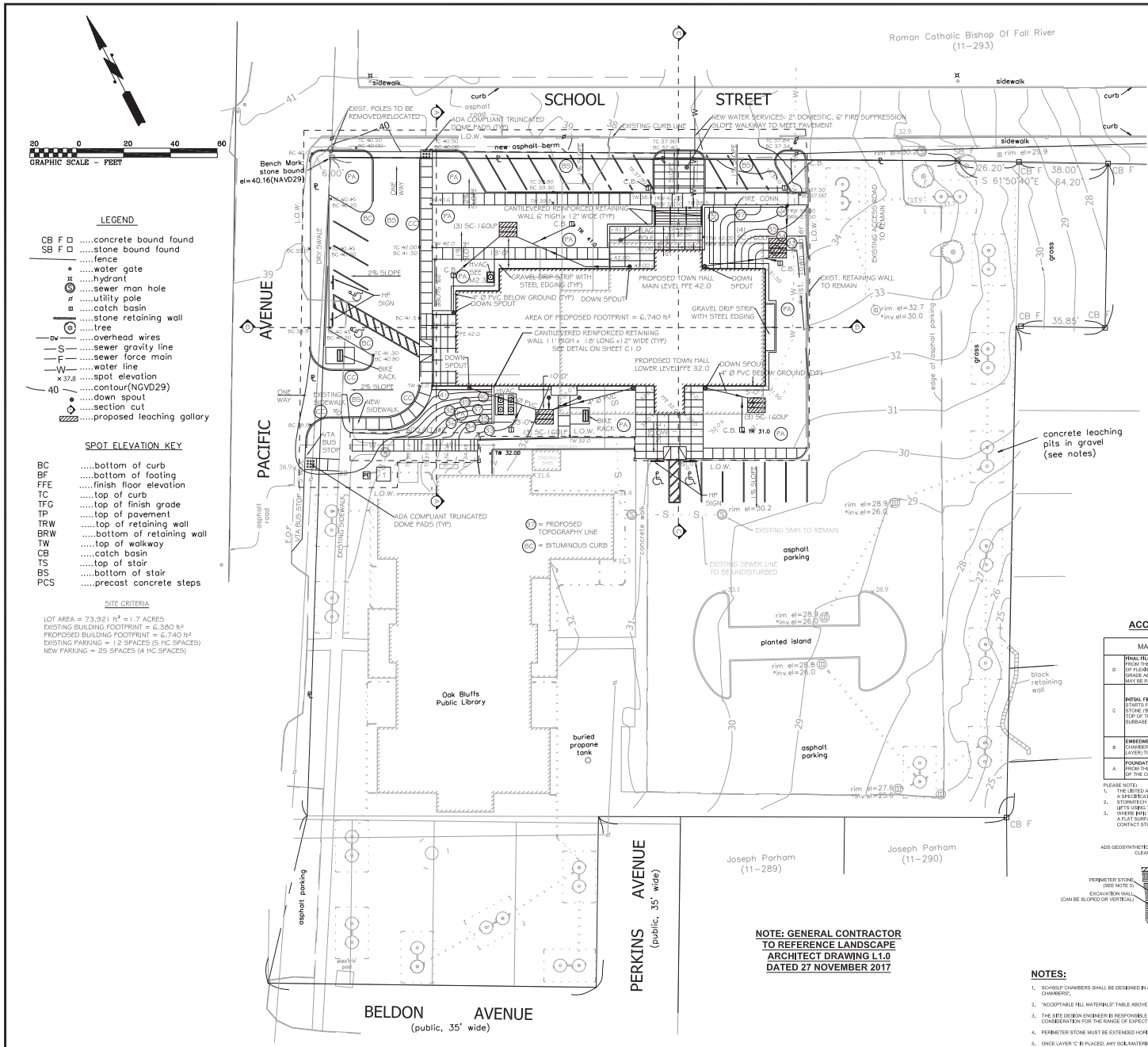


LEGEND

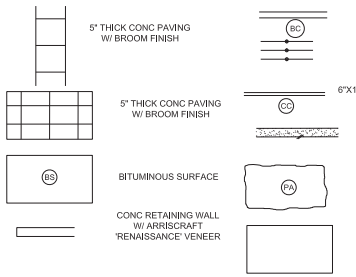
- CB F ..... concrete bound found
- SB F ..... stone bound found
- ..... fence
- ..... water gate
- ..... hydrant
- ..... sewer man hole
- ..... utility pole
- ..... catch basin
- ..... stone retaining wall
- ..... tree
- DW ..... overhead wires
- S ..... sewer gravity line
- F ..... sewer force main
- W ..... water line
- ×37.8 ..... spot elevation
- 40 ..... contour(NGVD29)
- ..... down spout
- ..... section cut
- ..... proposed leaching gallary

SPOT ELEVATION KEY

BC	bottom of curb
BF	bottom of footing
FFE	finish floor elevation
TC	top of curb
TFG	top of finish grade
TP	top of pavement
TRW	top of retaining wall
BRW	bottom of retaining wall
TW	top of walkway
CB	catch basin
TS	top of stair
BS	bottom of stair
PCS	precast concrete steps

SITE CRITERIA

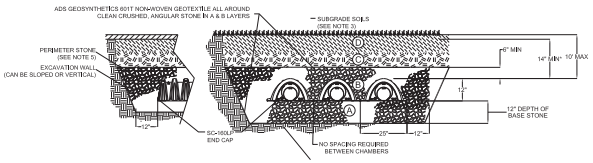
LOT AREA = 73,921 ft² = 1.7 ACRES
EXISTING BUILDING FOOTPRINT = 6,380 ft²
PROPOSED BUILDING FOOTPRINT = 6,740 ft²
EXISTING PARKING = 12 SPACES (5 HC SPACES)
NEW PARKING = 25 SPACES (4 HC SPACES)



ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS, CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (356 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (50 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. * *

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS. A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT, FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTE: GENERAL CONTRACTOR TO REFERENCE LANDSCAPE ARCHITECT DRAWING L1.0 DATED 27 NOVEMBER 2017

NOTES:

1. SC-160LP CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE, MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

Architect
Keenan + Kenny Architects, Ltd.
189 Main Street
Falmouth, Massachusetts 02540
Tel. 508-540-0075
E. office@kandkarchitects.com
www.kandkarchitects.com

Structural Engineers
John Lolley, P.E.
12 Surveyors Lane
Vineyard Haven,
Massachusetts 02568
Tel. 508-221-2192
E. office@lldeype.com
www.lolleype.com

Mechanical, Electrical, Plumbing and Fire Protection Engineers
Griffith & Vary, Inc.
12 Kendrick Road
Wareham, Massachusetts 02571
Tel. 508-295-0050
E. info@griffithandvary.com
www.griffithandvary.com

Landscape Architect
T.L. Studio
35 North Main Street
Falmouth, Massachusetts 02540
Tel. 774-763-2461
www.tlstudioinc.com

Security and Technology Engineers
Garcia - Galuska - Desousa
Consulting Engineers, Inc.
370 Faunce Corner Road
Dartmouth, Massachusetts 02747
Tel 774-763-2461

Owner's Project Manager
Daedalus Projects, Inc.
112 South Street
Boston, Massachusetts 02111
Tel. 508-295-0050
E. info@dp4-boston.com
www.daedalusprojects.com

REVISIONS

NO.	DATE	DESCRIPTION

STAMP: NOT FOR CONSTRUCTION

PROJECT NO. OBTH | ISSUED BY: JL, PE
ISSUED DATE: 02 JAN 2018
SHEET TITLE: TOPO & STORMWATER MANAGEMENT PLAN
SCALE: 1" = 20'-0"
SHEET NO.: C1.1