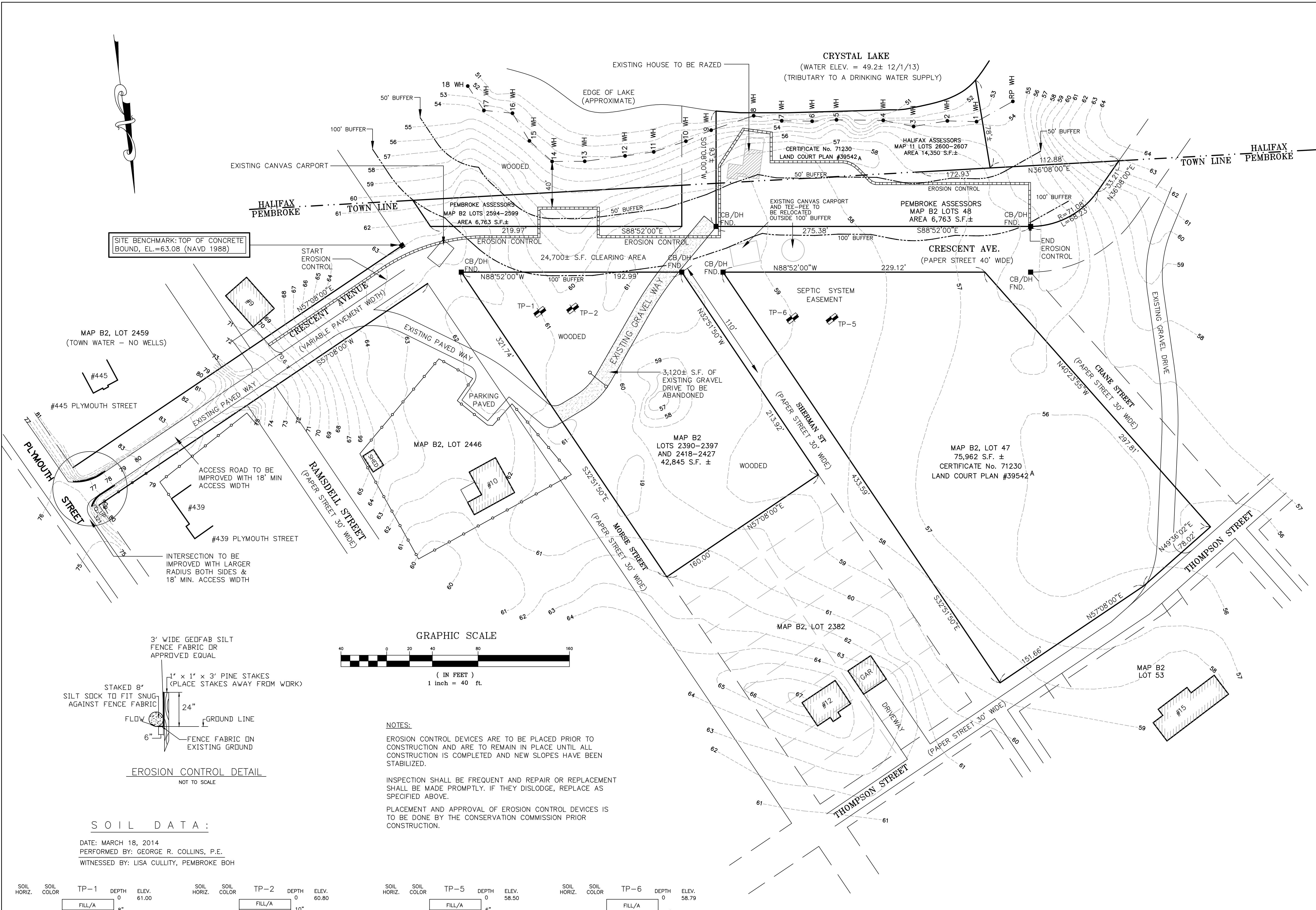
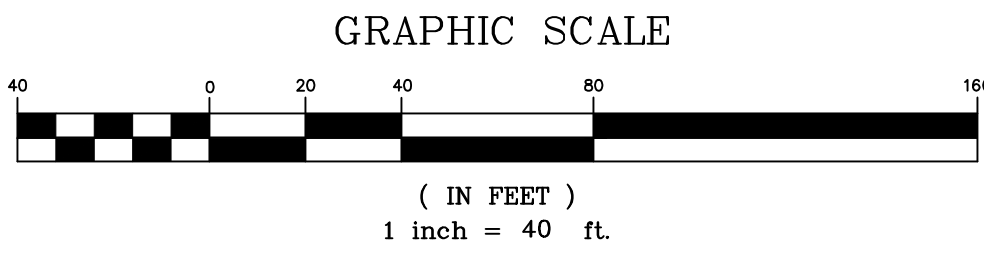




LEGEND	
100	EXISTING CONTOUR
HYD.	EXIST. FIRE HYDRANT
W.G.	EXIST. WATER GATE
W	EXISTING WATER MAIN
G	EXISTING GAS MAIN
U.P. 12	EXIST. UTILITY POLE
20WH	EXIST. WETLAND FLAG
m20	EXIST. MEAN HIGH WATER
	EXIST. WETLAND
	EXIST. WOODS LINE
x 101.6	EXIST. SPOT GRADE



NOTES:

EROSION CONTROL DEVICES ARE TO BE PLACED PRIOR TO CONSTRUCTION AND ARE TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED AND NEW SLOPES HAVE BEEN STABILIZED.

INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY. IF THEY DISLODGE, REPLACE AS SPECIFIED ABOVE.

PLACEMENT AND APPROVAL OF EROSION CONTROL DEVICES IS TO BE DONE BY THE CONSERVATION COMMISSION PRIOR CONSTRUCTION.

SOIL DATA :

DATE: MARCH 18, 2014
PERFORMED BY: GEORGE R. COLLINS, P.E.
WITNESSED BY: LISA CULLITY, PEMBROKE BOH

SOIL HORIZ.	SOIL COLOR	TP-1	DEPTH	ELEV.	SOIL HORIZ.	SOIL COLOR	TP-2	DEPTH	ELEV.
		FILL/A	0	61.00			FILL/A	0	60.80
Bw	10YR 5/6	SANDY LOAM	8"		Bw	10YR 5/6	SANDY LOAM	10"	
			26"				44" BOTTOM OF PERC HOLE	24"	
C1	2.5Y 4/4	M-C SAND	90"	53.50	C1	2.5Y 6/2	M-C SAND	82"	53.30
			104"		C2	2.5Y 6/4	FINE SAND	90"	53.30
C1	2.5Y 5/4	F-M SAND	124"	50.66	C3	2.5Y 6/2	M-C SAND	132"	49.80

PERK RATE = <2 MIN/INCH

SOIL HORIZ.	SOIL COLOR	TP-5	DEPTH	ELEV.	SOIL HORIZ.	SOIL COLOR	TP-6	DEPTH	ELEV.
		FILL/A	0	58.50			FILL/A	0	58.79
Bw	10YR 5/6	SANDY LOAM	6"		Bw	10YR 5/6	SANDY LOAM	10"	
		44" BOTTOM OF PERC HOLE	26"					30"	
C	2.5Y 4/4	M-C SAND	102"	50.00	C	2.5Y 4/4	M-C SAND	98"	50.65
			140"	46.84				126"	48.29

PERK RATE = <2 MIN/INCH

APPROVAL UNDER SECTION V SPECIAL PROVISIONS, STANDARDS AND PROCEDURES 9. DETERMINATION OF ADEQUACY OF THE WAY POLICY AND PROCEDURES REQUIRED.

DATE: _____
TOWN OF PEMBROKE PLANNING BOARD

PREPARED FOR:
APPLICANT / OWNER:

ROGER WARREN
P.O. BOX 2447
BASSETTERRE, St. KITTS, WEST INDIES

REV.	DATE	DESCRIPTION	BY	APP.

CRESCENT AVENUE SHEET 2 OF 7

EXISTING CONDITIONS PLAN 1 OF 1

CRESCENT AVENUE IMPROVEMENTS
& EXTENSION PLAN OF LAND IN
PEMBROKE
PLYMOUTH COUNTY, MASSACHUSETTS

COLLINS CIVIL ENGINEERING GROUP, INC.
BRAINTREE - FALMOUTH - PEMBROKE - W. BRIDGEWATER
CIVIL ENGINEERING - LAND SURVEY - L.S.P. SERVICES
225 SOUTH MAIN STREET, WEST BRIDGEWATER, MA 02379
TEL:508-680-2332 MOBILE: 617-347-1363 E-MAIL:GRCPE@AOL.COM

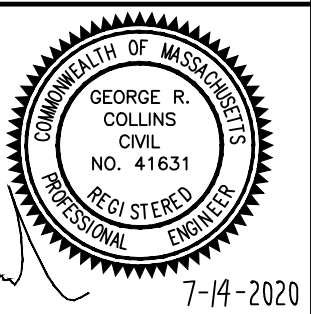
SCALE:
1" = 40'
DATE:
07-14-2020

DRAWN BY:
DJK

DESIGNED BY:
DJK

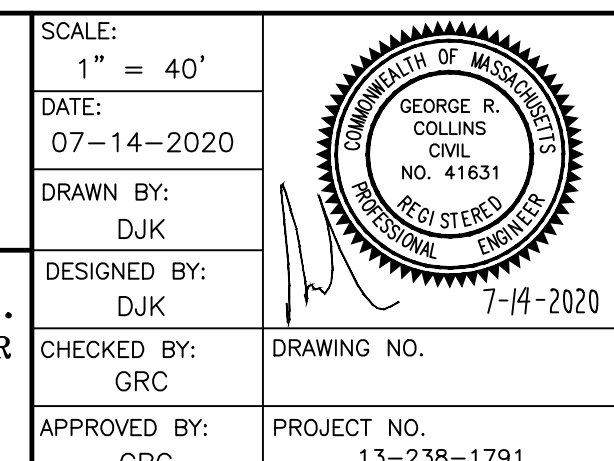
CHECKED BY:
GRC

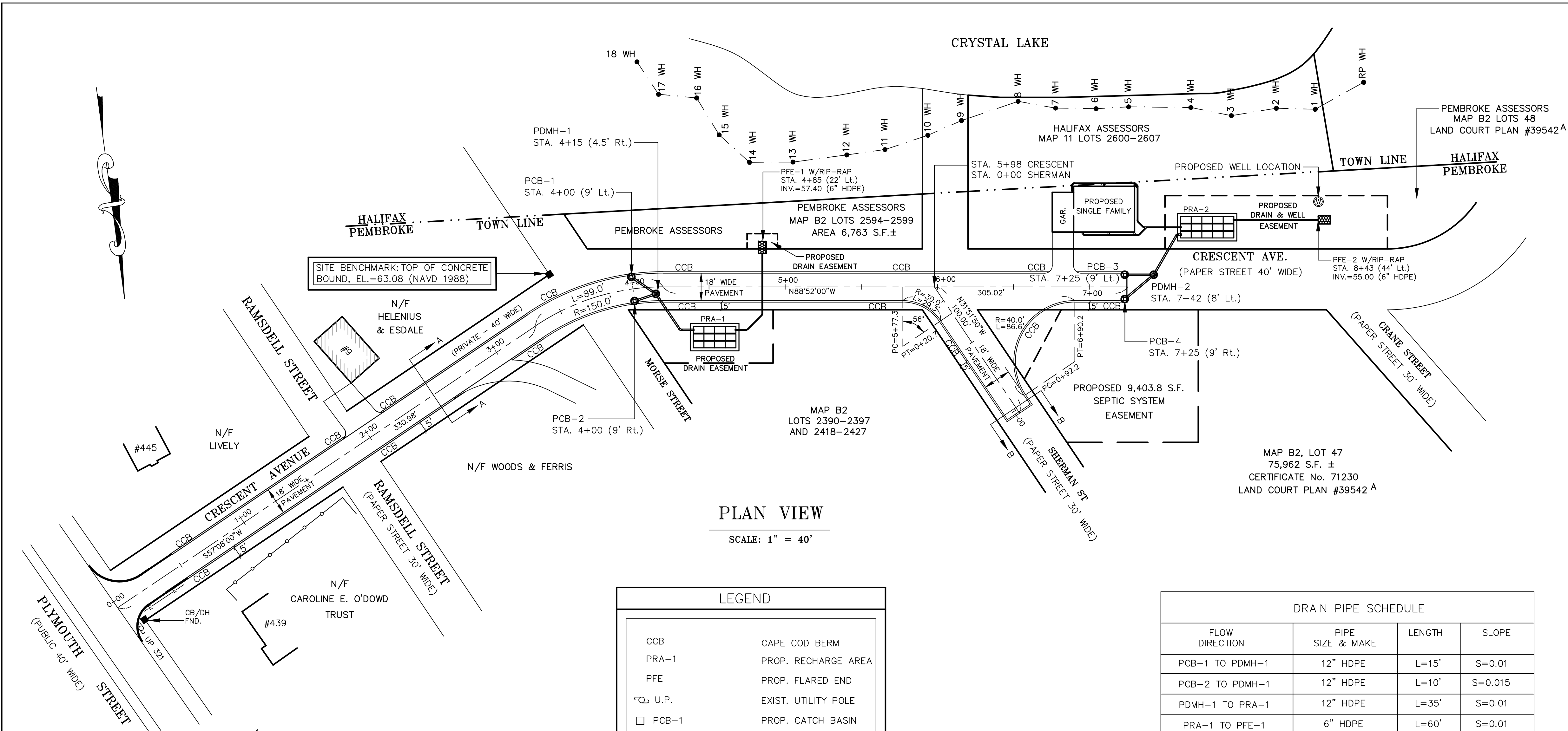
APPROVED BY:
GRC



DRAWING NO.
PROJECT NO.

13-238-1791



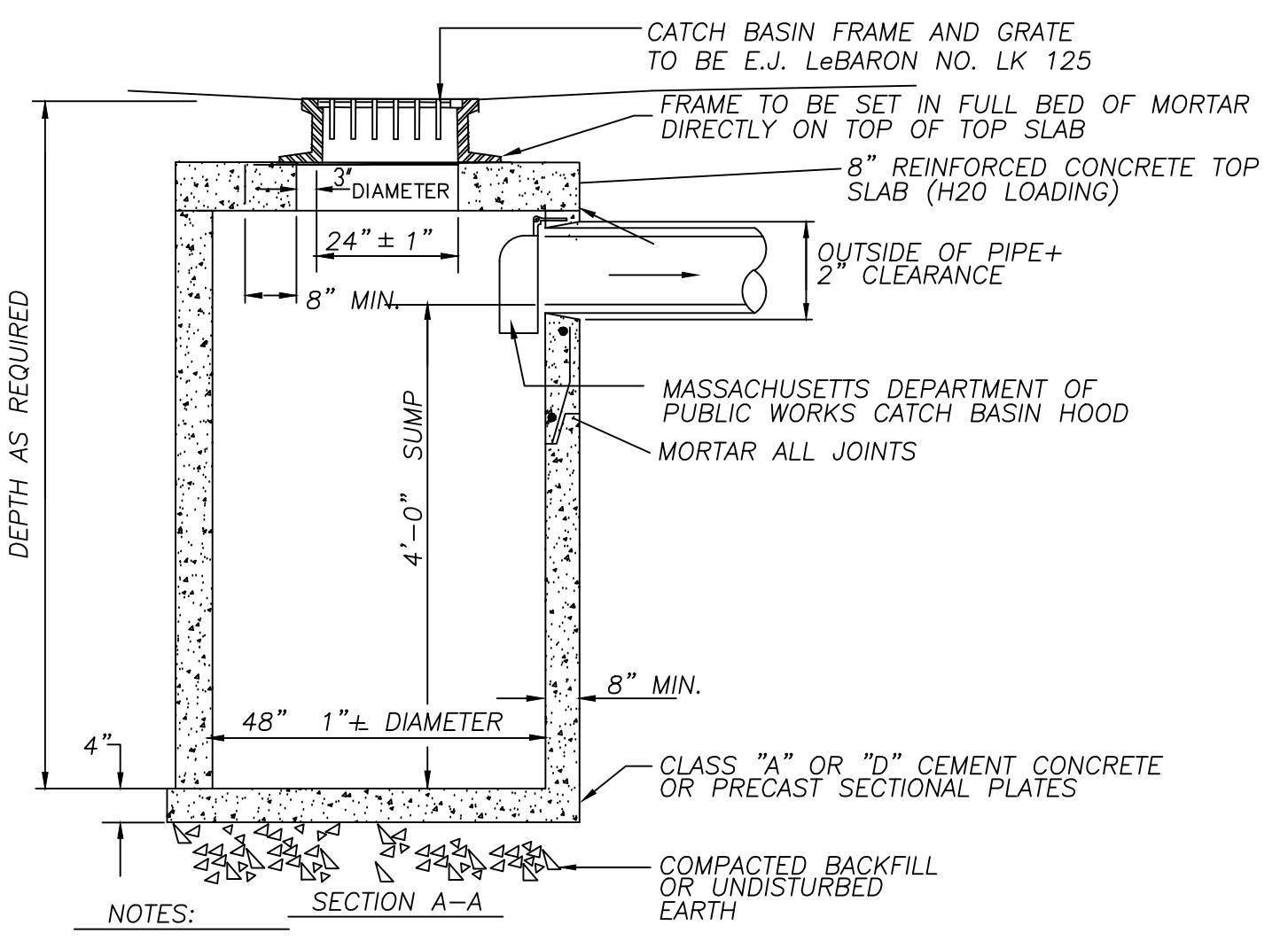


PLAN VIEW

SCALE: 1" = 40'

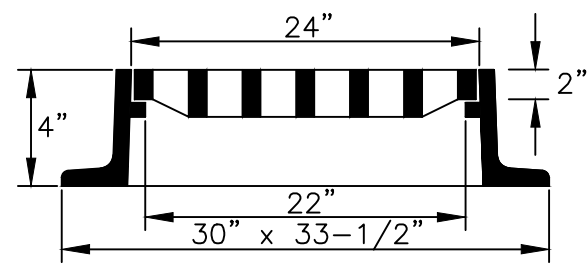
LEGEND	
CCB	CAPE COD BERM
PRA-1	PROP. RECHARGE AREA
PFE	PROP. FLARED END
U.P.	EXIST. UTILITY POLE
PCB-1	PROP. CATCH BASIN
PDMH-1	PROP. DRAIN MANHOLE

DRAIN PIPE SCHEDULE			
FLOW DIRECTION	PIPE SIZE & MAKE	LENGTH	SLOPE
PCB-1 TO PDMH-1	12" HDPE	L=15'	S=0.01
PCB-2 TO PDMH-1	12" HDPE	L=10'	S=0.015
PDMH-1 TO PRA-1	12" HDPE	L=35'	S=0.01
PRA-1 TO PFE-1	6" HDPE	L=60'	S=0.01
PCB-3 TO PDMH-2	12" HDPE	L=15'	S=0.013
PCB-4 TO PDMH-2	12" HDPE	L=20'	S=0.01
PDMH-2 TO PRA-2	12" HDPE	L=30'	S=0.01
PRA-2 TO PFE-2	6" HDPE	L=65'	S=0.01



TYPICAL FLAT TOP CATCH BASIN

(NOT TO SCALE)

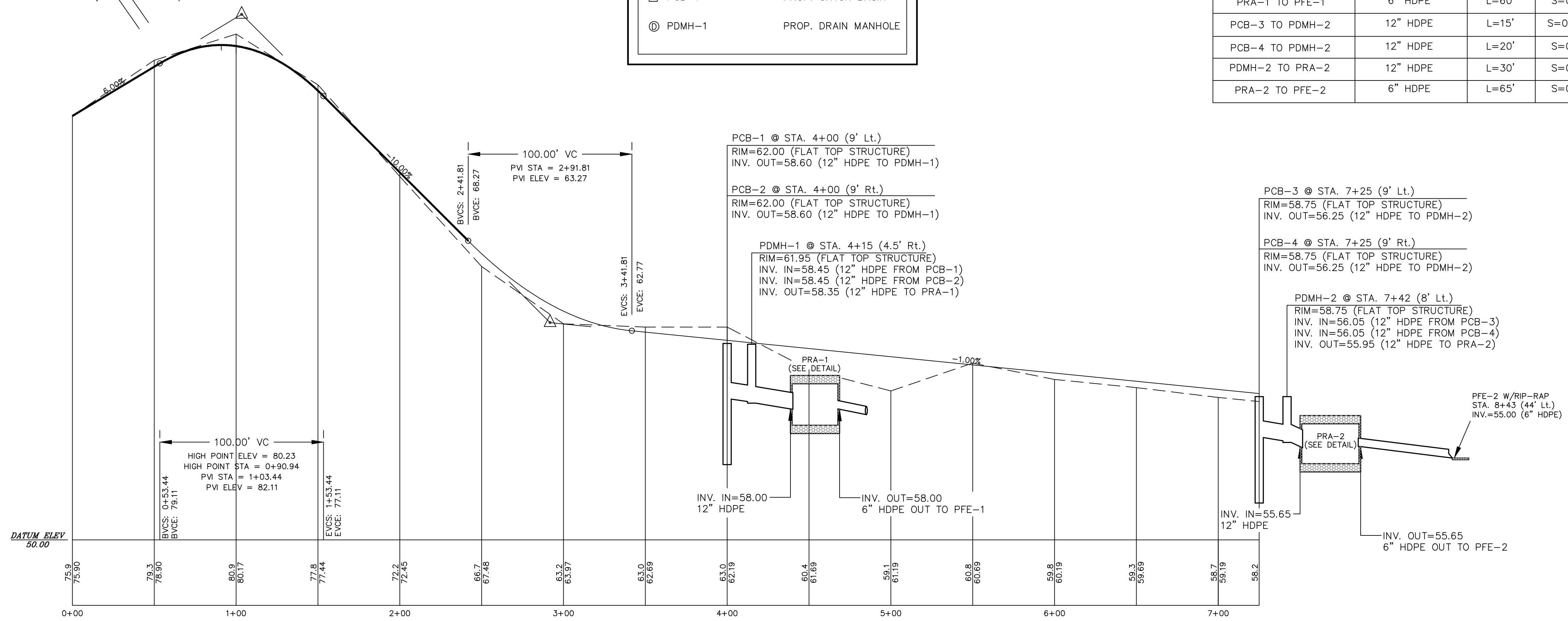


* 3 OR 4 FLANGE FRAME AS REQUIRED

CATCH BASIN FRAME & GRATE

LEBARON TYPE LF 248-2 480 LB. OR APPROVED EQUAL

(NOT TO SCALE)



PROFILE VIEW

SCALE: 1" = 40' (HORIZONTAL)
SCALE: 1" = 4' (VERTICAL)

APPROVAL UNDER SECTION V SPECIAL PROVISIONS, STANDARDS AND PROCEDURES 9. DETERMINATION OF ADEQUACY OF THE WAY POLICY AND PROCEDURES REQUIRED.

DATE: TOWN OF PEMBROKE PLANNING BOARD

PREPARED FOR:
APPLICANT / OWNER:

ROGER WARREN
P.O. BOX 2447
BASSETTERRE, St. KITTS, WEST INDIES

REV.	DATE	DESCRIPTION	BY	APP.

CRESCENT AVENUE SHEET 5 OF 7

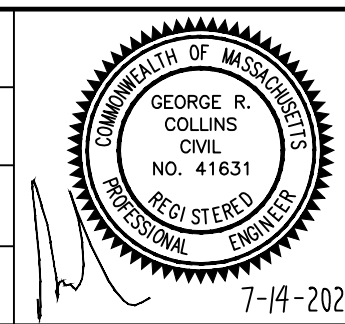
ROAD PLAN, PROFILE & DETAIL 1 OF 1

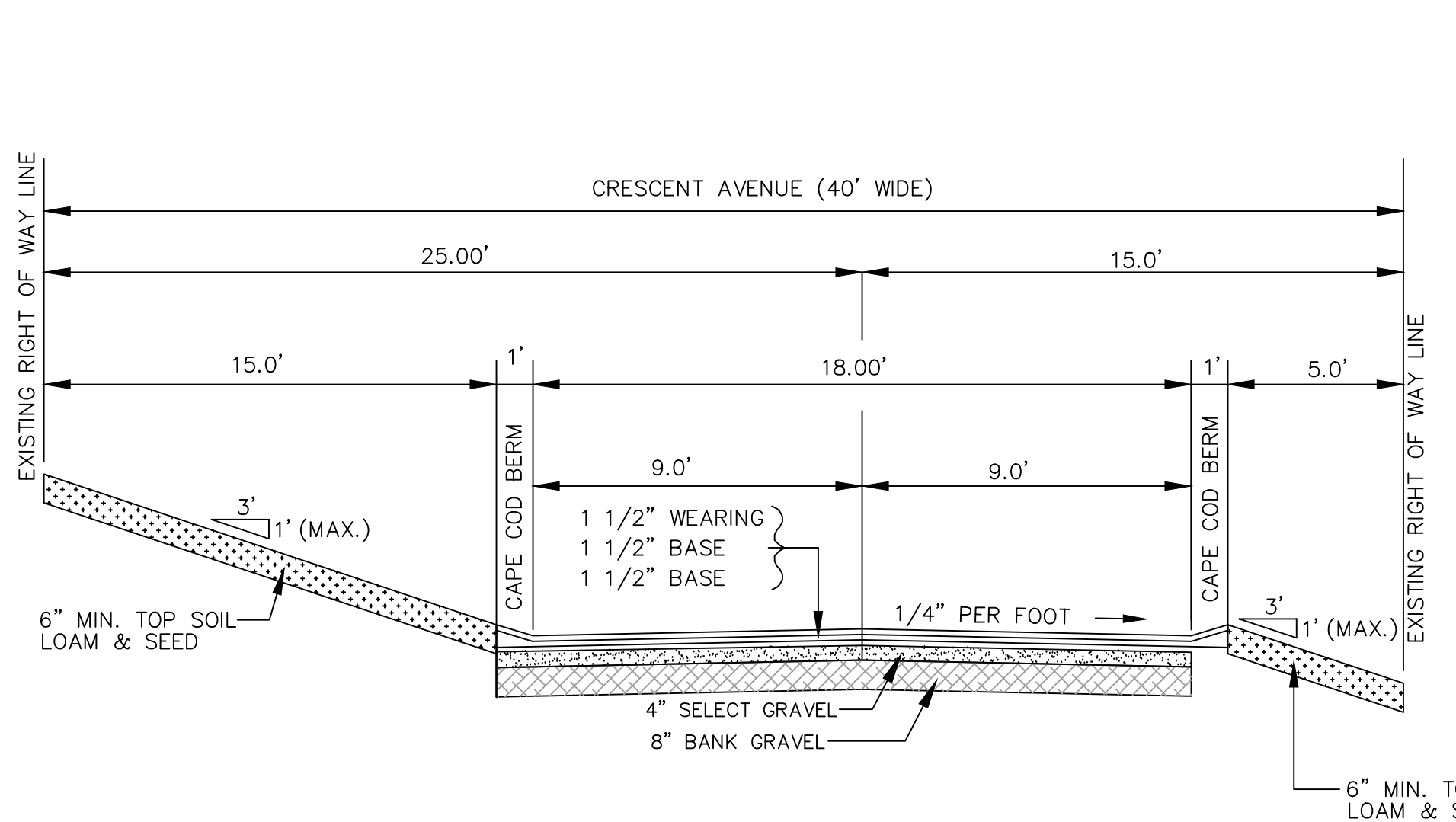
CRESCENT AVENUE IMPROVEMENTS
& EXTENSION PLAN OF LAND IN
PEMBROKE
PLYMOUTH COUNTY, MASSACHUSETTS

COLLINS CIVIL ENGINEERING GROUP, INC.
BRAINTREE - PALMOUTH - PEMBROKE - W. BRIDGEWATER
CIVIL ENGINEERING - LAND SURVEY - L.S.P. SERVICES
225 SOUTH MAIN STREET, WEST BRIDGEWATER, MA 02379
TEL:508-680-2332 MOBILE: 617-347-1983 E-MAIL:GRCPE@aol.com

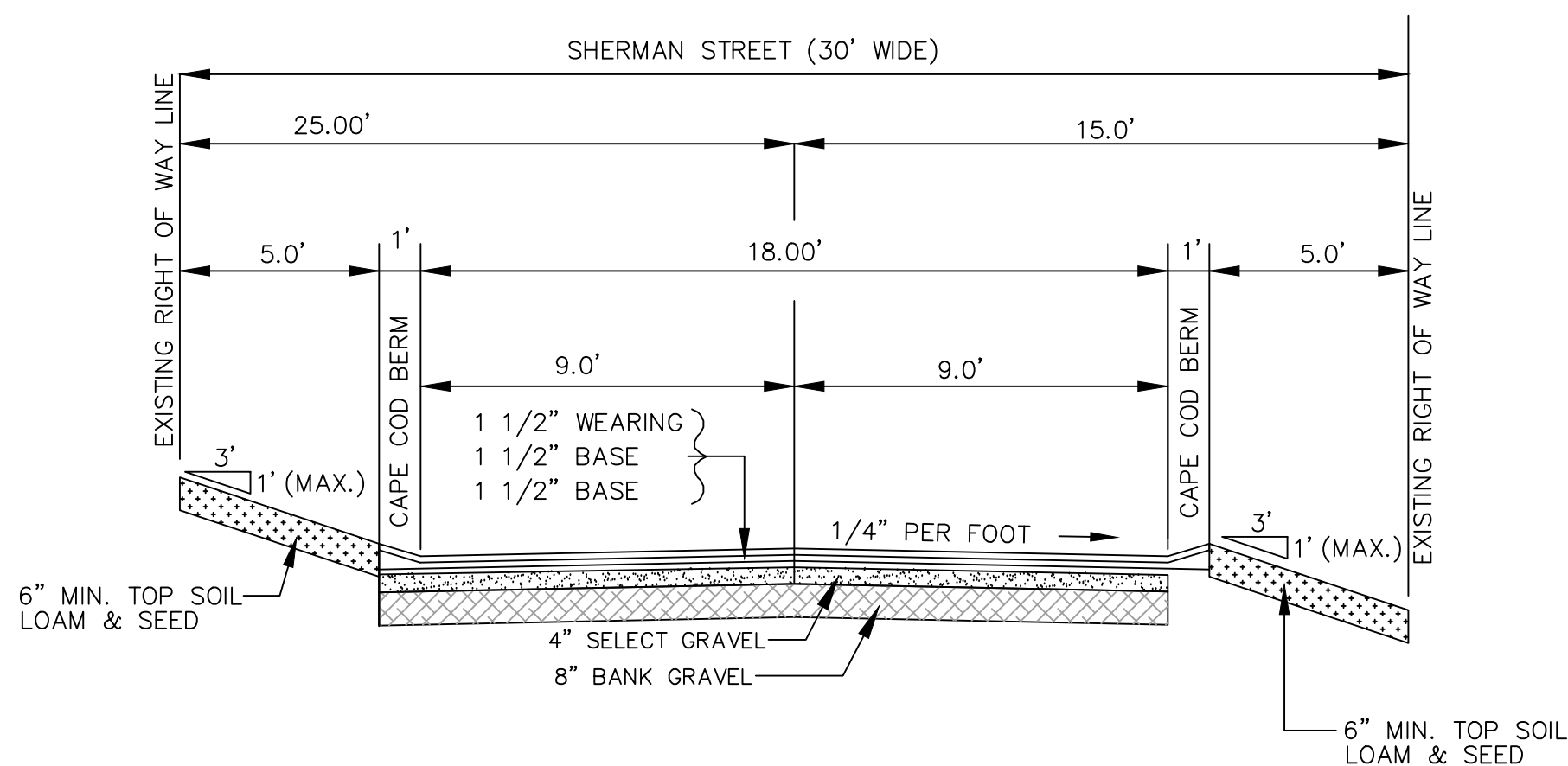
SCALE:
AS NOTED
DATE:
07-14-2020
DRAWN BY:
DUK
DESIGNED BY:
DUK
CHECKED BY:
GRC
APPROVED BY:
GRC

DRAWING NO.
PROJECT NO.
13-238-1791

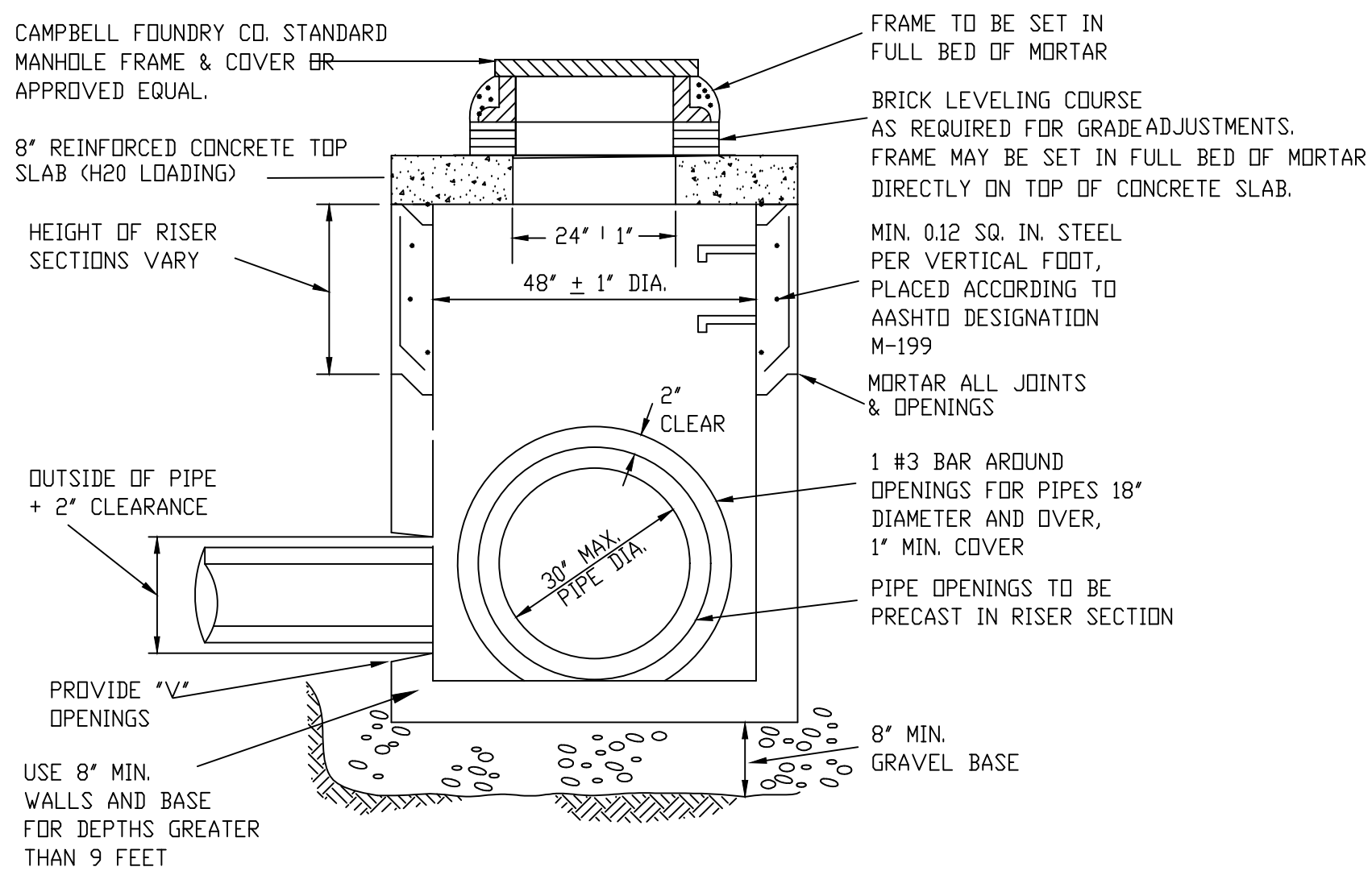




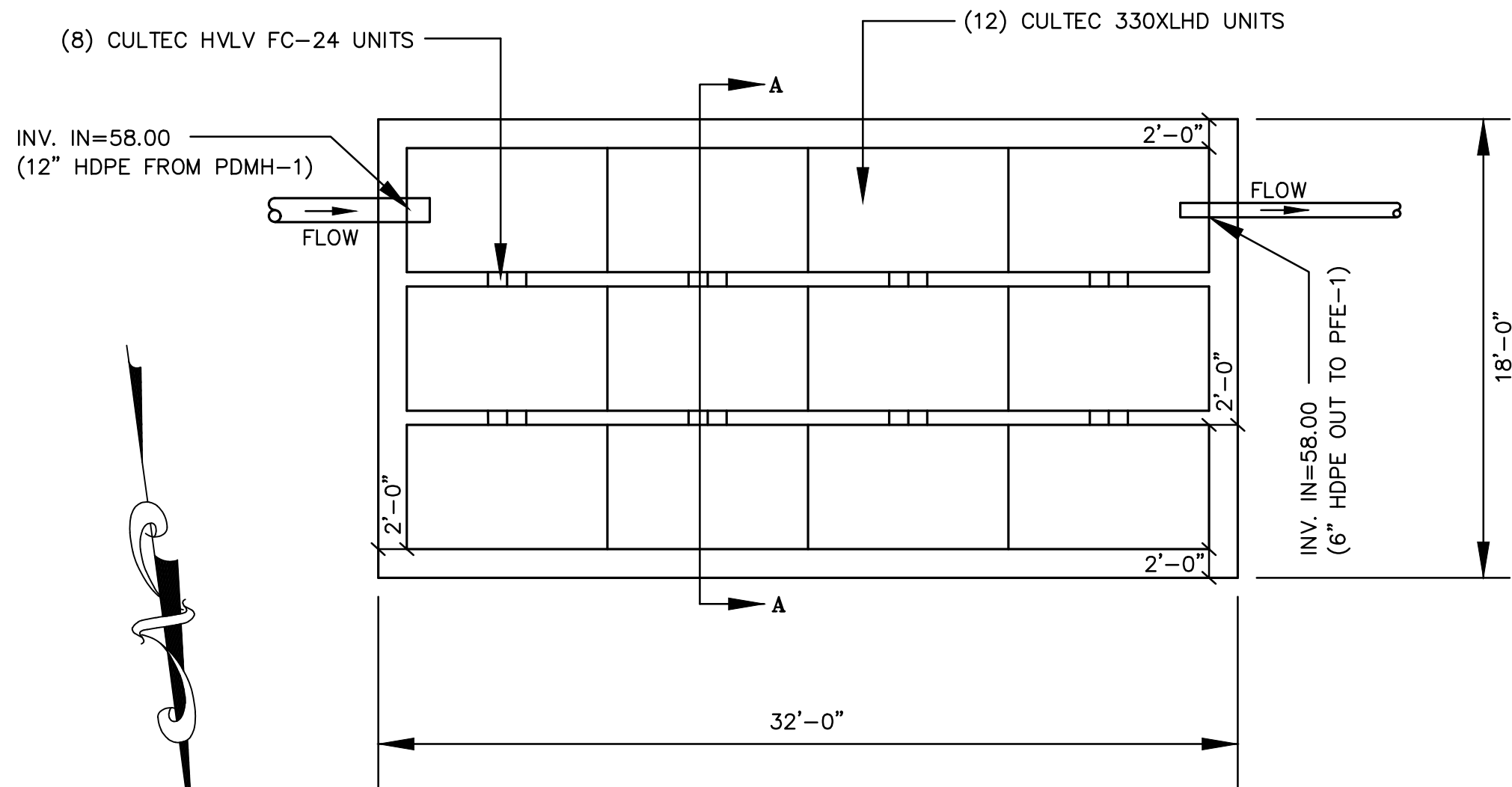
ROAD CROSS SECTION A-A
STA. 2+50 CRESCENT AVENUE
(NOT TO SCALE)



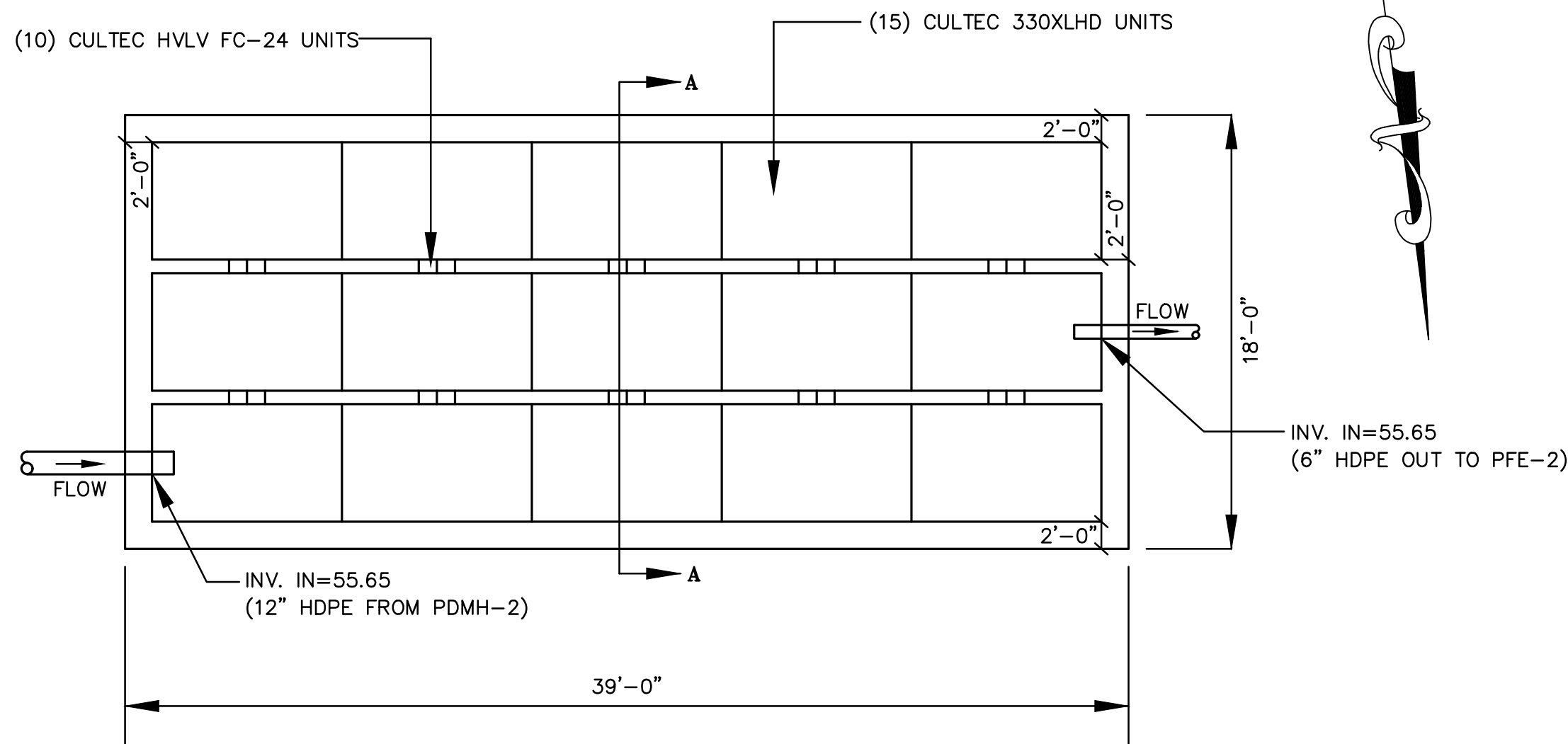
ROAD CROSS SECTION B-B
STA. 0+90 SHERMAN STREET
(NOT TO SCALE)



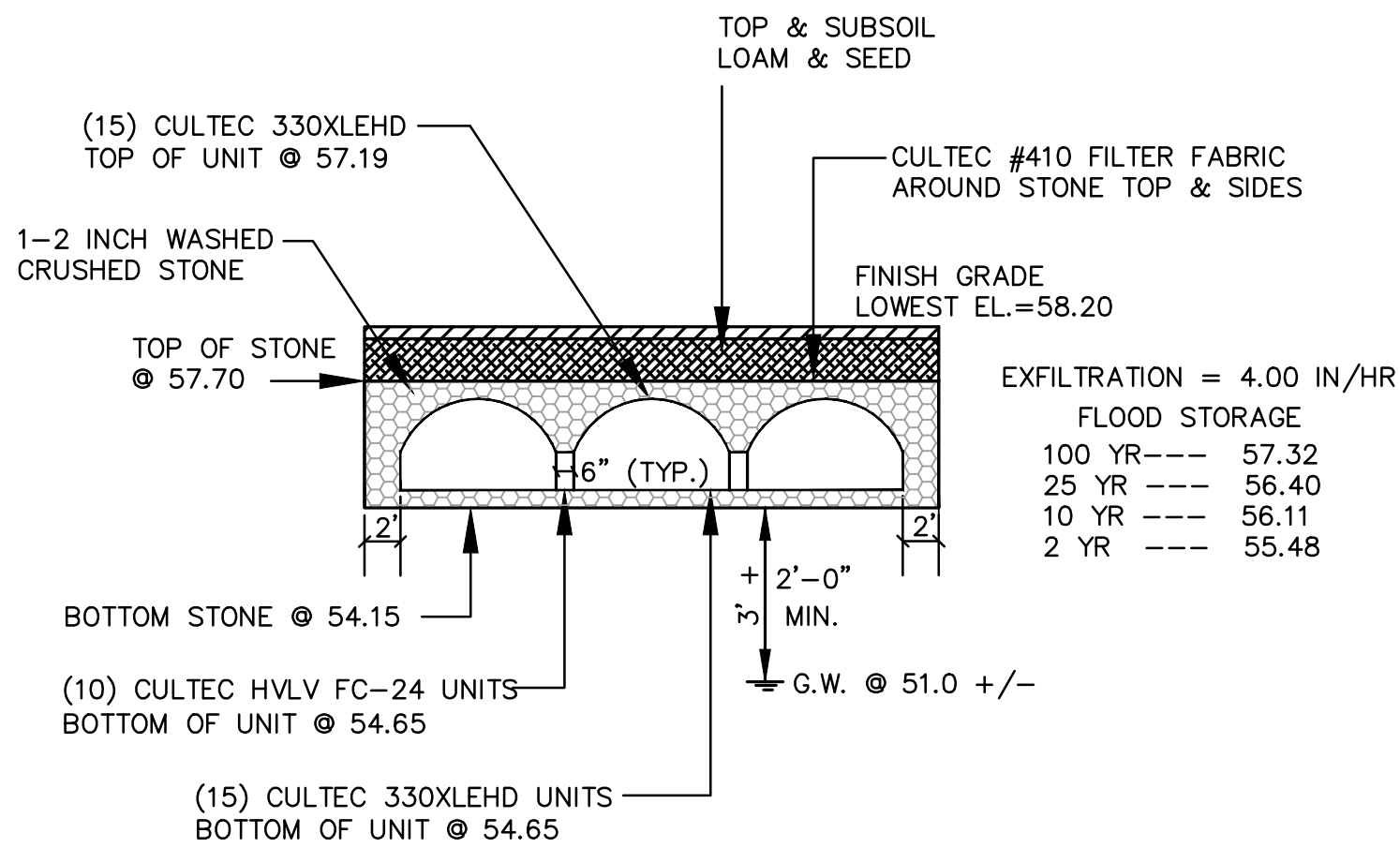
PRECAST CONCRETE FLAT TOP DRAIN MANHOLE
(NOT TO SCALE)



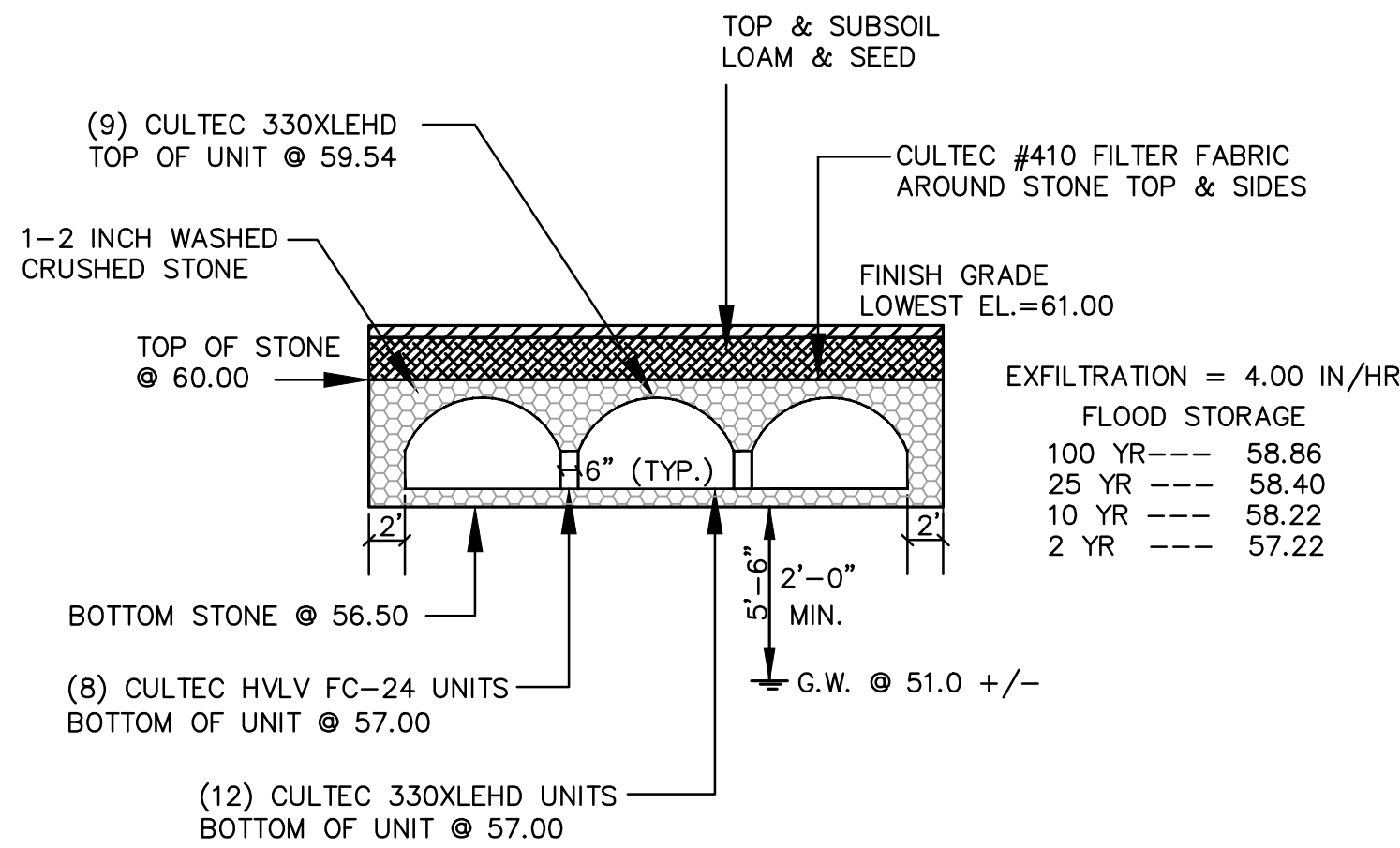
PLAN VIEW RECHARGE AREA 1 (PRA-1)
(NOT TO SCALE)



PLAN VIEW RECHARGE AREA 2 (PRA-2)
(NOT TO SCALE)



SECTION A-A RECHARGE AREA 2 (PRA-2)
(NOT TO SCALE)



SECTION A-A RECHARGE AREA 1 (PRA-1)
(NOT TO SCALE)

THE ROADWAY SHOWN HEREON, CRESCENT AVENUE EXTENSION, SHALL REMAIN A PRIVATE WAY IN PERPETUITY. ITS MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNERS ABUTTING THE STREET.

OPERATION AND MAINTENANCE PLAN

NOTE: IN CASE OF TRANSFER OF PROPERTY, THE NEW OWNERS WILL BECOME THE RESPONSIBLE PARTY FOR THE OPERATION AND MAINTNANCE POST CONSTRUCTION.

NON STRUCTURAL METHODS

- A COMPREHENSIVE CONTROL PROGRAM WILL BE IMPLEMENTED AT THE SITE WHICH INCLUDES REGULAR PAVEMENT SWEEPING, CATCH BASIN CLEANING, AND RESTRICTIONS ON THE USE OF PESTICIDES, FERTILIZERS, SALT AND OTHER DEICING AGENTS.

STRUCTURAL METHODS

PROPOSED DEEP SUMP CATCH BASINS FITTED WITH HOODS
CATCH BASINS WILL BE INSPECTED 4 TIMES PER YEAR AND CLEANED TWICE ANNUALLY OR WHENEVER THE DEPTH OF DEPOSITS IS GRATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT OF THE LOWEST PIPE IN THE BASIN.

PROPOSED CULTEC RECHARGE AREAS
INSPECT INLETS AT LEAST TWICE A YEAR. REMOVE ANY DEBRIS THAT MIGHT CLOG THE THE SYSTEM.

APPROVAL UNDER SECTION V SPECIAL PROVISIONS, STANDARDS AND PROCEDURES 9. DETERMINATION OF ADEQUACY OF THE WAY POLICY AND PROCEDURES REQUIRED.

DATE: TOWN OF PEMBROKE PLANNING BOARD

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BASSETTERRE, St. KITTS, WEST INDIES

REV.	DATE	DESCRIPTION	BY	APP.
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CRESCENT AVENUE SHEET 6 OF 7

CROSS SECTIONS & DETAIL PLAN 1 OF 2

CRESCENT AVENUE IMPROVEMENTS
& EXTENSION PLAN OF LAND IN
PEMBROKE
PLYMOUTH COUNTY, MASSACHUSETTS

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DRAWN BY:
DJK
DESIGNED BY:
DJK
CHECKED BY:
GRC
APPROVED BY:
GRC

GEORGE R. COLLINS
CIVIL
NO. 41631
REGISTERED ENGINEER
7-14-2020
DRAWING NO.
PROJECT NO.
13-238-1791

