

PRELIMINARY PLAN SUBMISSION

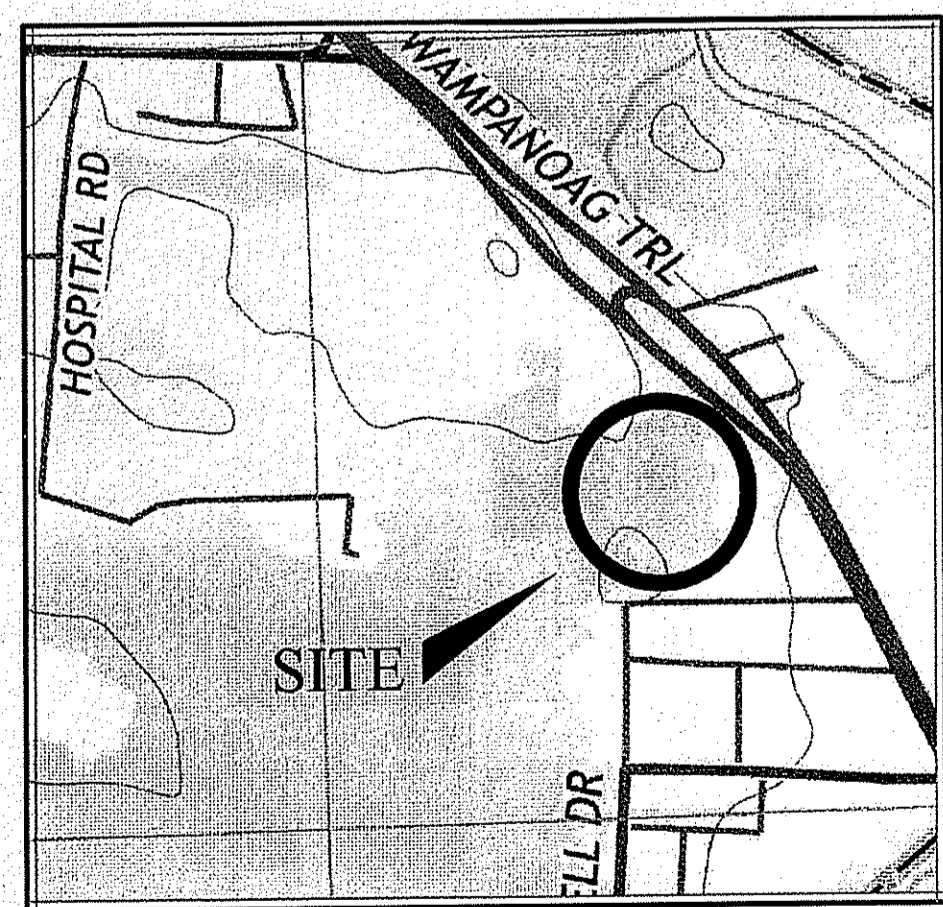
FOR:

HUNDRED ACRE COVE ESTATES

MAP 811, BLOCK 1, PARCEL 3
WAMPANOAG TRAIL
EAST PROVIDENCE, R.I.

PREPARED FOR:

U S DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, R.I.



LOCUS MAP
NOT TO SCALE

PREPARED BY:

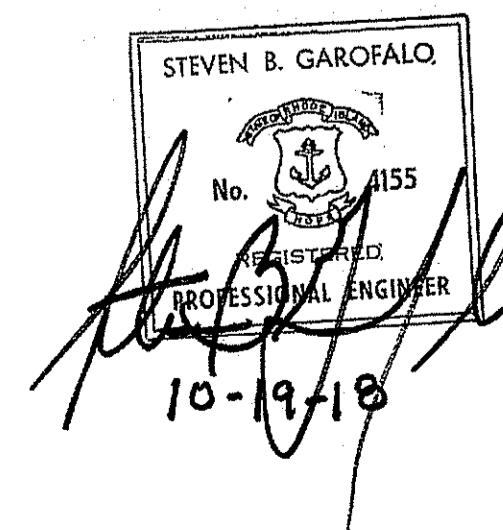


GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS \ SURVEYORS
LAND PLANNERS \ ENVIRONMENTAL SCIENTISTS
85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, RI 02940
(PH) 401-273-6000 (FX) 401-273-1000

DATED:

MAY, 2018

(REVISED 10/18/2018)



OCT 23 2018
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER PERMITS DIVISION
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 4 2018 FILE # 18-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harte

PLAN SHEET LEGEND

SHEET	PLAN TITLE	LATEST REVISION
C-1	COVER SHEET	10/18/2018
C-2	GENERAL NOTE	10/18/2018
C-3	EXISTING CONDITION	
C-4	SUBDIVISION PLAN	
C-5	SITE LAYOUT PLAN	10/18/2018
C-6	GRADING & UTILITIES PLAN	10/18/2018
C-7	UTILITIES PLAN	10/18/2018
C-8	SOIL EROSION & SEDIMENT CONTROL PLAN	10/18/2018
C-9	ROADWAY PROFILE - 1	
C-10	TRAFFIC IMPROVEMENT PLAN	10/18/2018
C-11	CONSTRUCTION DETAILS - 1	10/18/2018
C-12	CONSTRUCTION DETAILS - 2	10/18/2018
C-13	CONSTRUCTION DETAILS - 3	10/18/2018
L-1	LANDSCAPE PLAN	10/18/2018
L-2	LANDSCAPE DETAILS PLAN	

CERTIFICATION:
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

COMPREHENSIVE BOUNDARY SURVEY - CLASS I
 DATA ACCUMULATION SURVEY - CLASS III, T-2

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO PROVIDE AN EXISTING CONDITIONS SURVEY OF LOT 3 ON ASSESSOR'S MAP 811 BLOCK 1 IN THE CITY OF EAST PROVIDENCE.

BY: Samuel A. White, Jr.
 SAMUEL A. WHITE LICENSE NO. 1781
 LS A59-00A

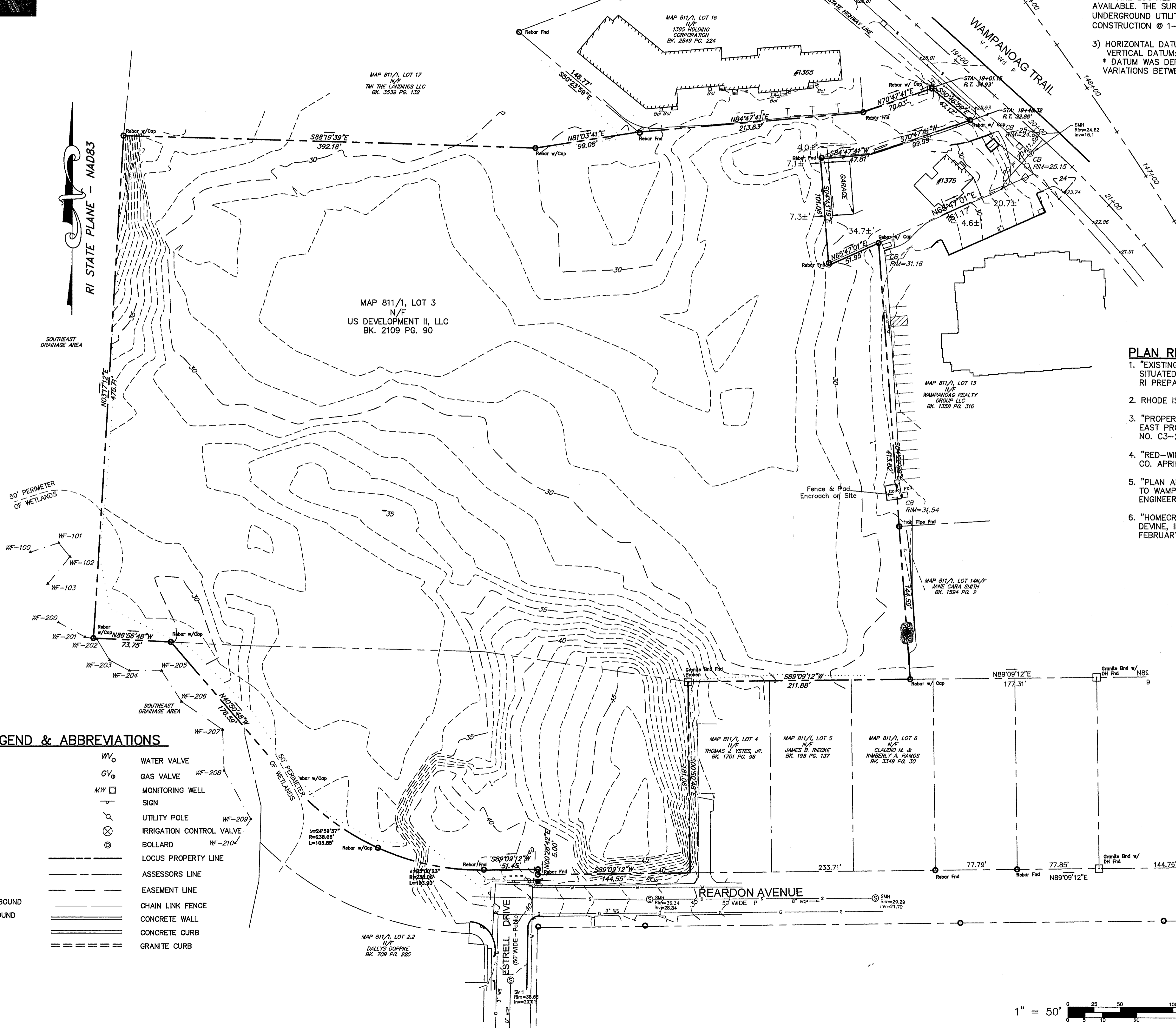
LOCUS MAP
 N.T.S.

NOTES:

- 1.) THE PROJECT SITE IS LOCATED WITHIN ZONE "X" (AREA OF MINIMAL FLOODING) AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE CITY OF EAST PROVIDENCE, RHODE ISLAND, PROVIDENCE COUNTY, COMMUNITY PANEL NO. 44007C0339G, HAVING AN EFFECTIVE DATE OF MARCH 2, 2009.
- 2.) THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION @ 1-888-344-7233)
- 3.) HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD 83
 VERTICAL DATUM: NAVD 88*
 * DATUM WAS DERIVED BY OBSERVED GPS ORTHOMETRIC HEIGHTS, VARIATIONS BETWEEN LOCAL BENCHMARKS MAY APPLY.

PLAN REFERENCES:

1. "EXISTING CONDITIONS SURVEY" FOR MAP 811 BLOCK 1 LOT 17 SITUATED AT 1355-1357 WAMPANOAG TRAIL, EAST PROVIDENCE, RI PREPARED FOR GOULSTON & STORRS, JULY 9, 2013
2. RHODE ISLAND STATE HIGHWAY PLAT NO. 1005
3. "PROPERTY CONDEMNATION PLAN" WAMPANOAG SCHOOL, CITY OF EAST PROVIDENCE, ENGINEERING DIVISION, JUNE 12, 1967 DWG NO. C3-2-26 - PLAT BOOK 20 PAGE 14
4. "RED-WING ACRES" EAST PROVIDENCE, R.I. BY WATERMAN ENG. CO. APRIL 1955
5. "PLAN AND PROFILE OF REARDON AVENUE" FROM ESTRELL DRIVE TO WAMPANOAG TRAIL FOR JAMES DEVINE, INC. BY STANLEY ENGINEERING, FEBRUARY 1954
6. "HOMECREST SECTION C" EST PROVIDENCE, RI FOR JAMES DEVINE, INC. BY STANLEY ENGINEERING, AUGUST, 1970, REVISED FEBRUARY, 1977



PARCEL DATA
 A.P. 811, BLK. 1, LOT 3
 N/F
 US DEVELOPMENT II, LLC
 DEED BK. 2109 / PG. 90
 #1375 WAMPANOAG TRAIL
 LOT AREA:
 447,681 S.F. ± OR
 10.28 ACRES ±

ZONING DATA
 ZONING DISTRICT O-1
 MIN. LOT SIZE: 100,000 SF.
 MAX. LOT COVERAGE: 10%
 MIN. FRONTAGE: 250'
 MIN. FRONT YARD: 50'
 MIN. SIDE YARD: 50'
 MIN. REAR YARD: 50'
 MAX. BLDG. HEIGHT: 35'

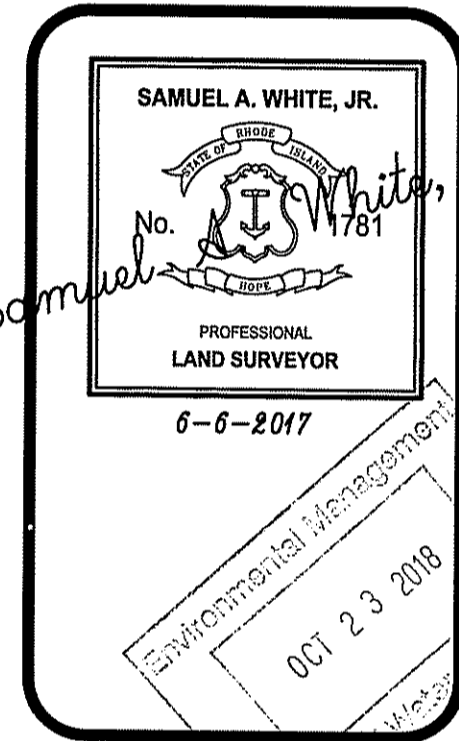
* PLEASE REFER TO ZONING REGS. FOR ADDITIONAL INFORMATION.

GENERAL LEGEND & ABBREVIATIONS

P.O.B.	POINT OF BEGINNING	WV	WATER VALVE
N/F	NOW OR FORMERLY	GV	GAS VALVE
S.F.	SQUARE FEET	MW	MONITORING WELL
AC.	ACRES	SIGN	SIGN
BIT.	BITUMINOUS	UTILITY POLE	UTILITY POLE
CONC.	CONCRETE	IRRI	IRRIGATION CONTROL VALVE
EOP	EDGE OF PAVEMENT	BOLLARD	BOLLARD
CLF	CHAIN LINK FENCE	LOCUS	LOCUS PROPERTY LINE
(FND)	FOUND	ASSESSORS	ASSESSORS LINE
LP	LIGHT POLE	EASEMENT	EASEMENT LINE
WF	WOOD FENCE	CHAIN LINK	CHAIN LINK FENCE
RHIB	RHODE ISLAND HIGHWAY BOUND	CONCRETE WALL	CONCRETE WALL
G.B.	GRANITE or CONCRETE BOUND	CONCRETE CURB	CONCRETE CURB
C.B.	GRANITE or CONCRETE BOUND	GRANITE CURB	GRANITE CURB
IP/R	IRON PIPE/REBAR		
DH	DRILL HOLE		
CB	CATCH BASIN		
CB(DBL)	CATCH BASIN(DOUBLE)		
DMH	DRAIN MANHOLE		
SMH	SEWER MANHOLE		
EMH	ELECTRIC MANHOLE		
TMH	TELEPHONE MANHOLE		

EXISTING CONDITIONS SURVEY
 FOR
AP 811 BLOCK 1 LOT 3
 SITUATED ON
WAMPANOAG TRAIL
EAST PROVIDENCE
RHODE ISLAND
 PREPARED FOR
CARPONATO PROPERTIES

NO.	REVISION	BY	DATE
1.	Wetlands	RSE	4/9/18



GAROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

Garofalo & Associates ©
 These drawings are the property of
 the engineer/surveyor and have been
 prepared for the owner, for their use
 only. They are not to be used for any
 other purpose, in whole or in part,
 without the written consent of one of its
 officers.

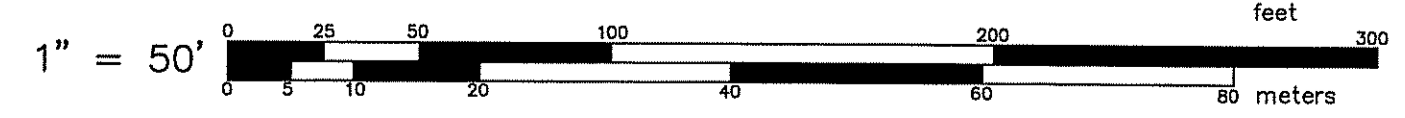
85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

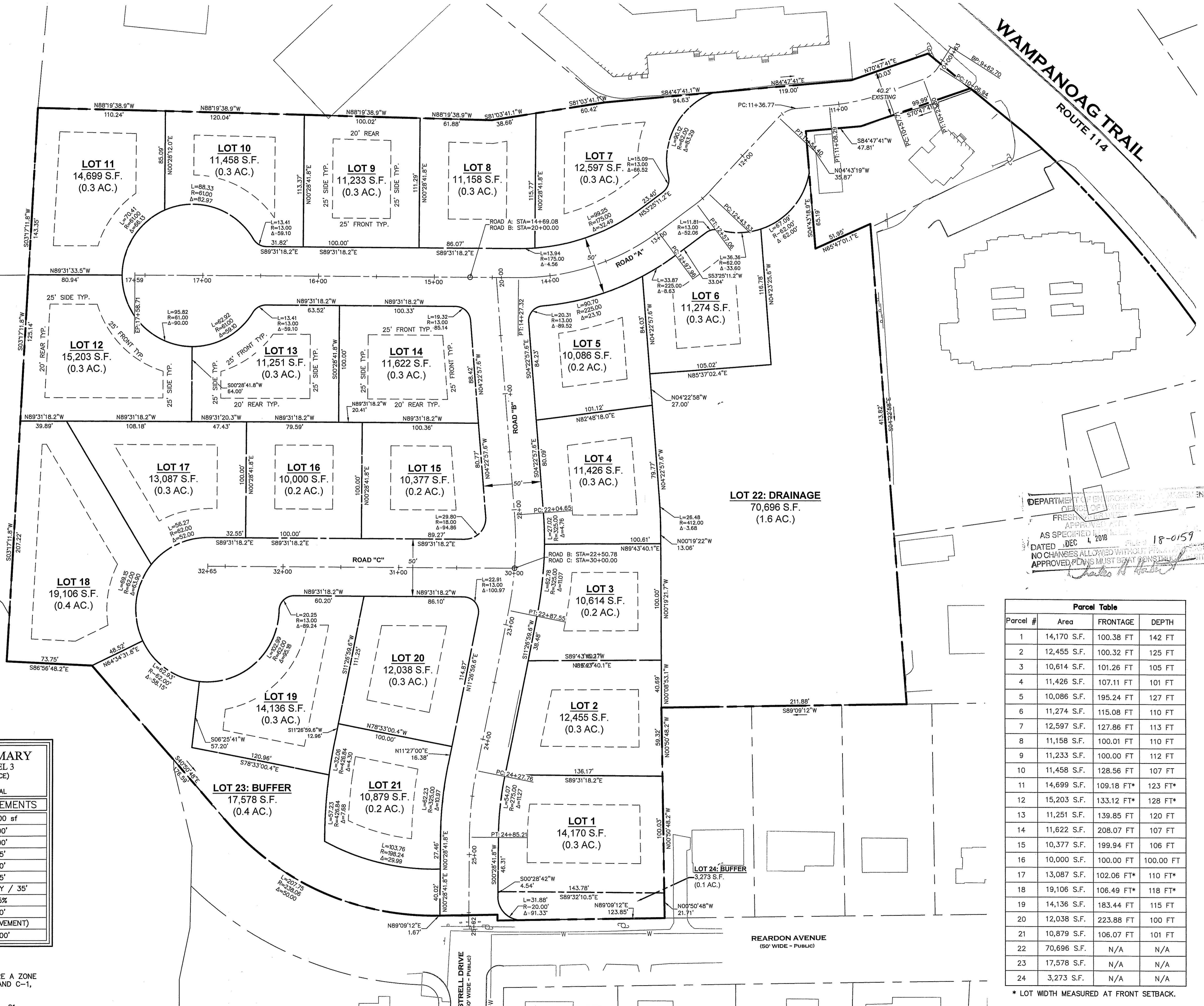
JOB NO. 6869-00	DRAWN BY RSE
DWG. NO. 6869-exit	CALCS BY RSE
SCALE: 1"=50'	APPROVED SAW
	DATE: JUNE 2017

SHEET

C-3

OF 15 SHEETS



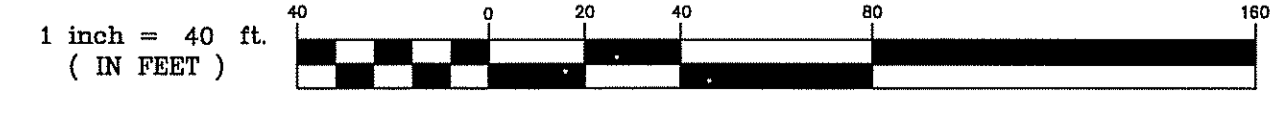


DEVELOPMENT SUMMARY
 MAP 811, BLOCK 1, PARCEL 3
 EXISTING ZONE: O-1 (OPEN SPACE)
 AND C-1 (COMMERCIAL)
 PROPOSED ZONE: R-2 RESIDENTIAL

R-2 DIMENSIONAL REQUIREMENTS	
MIN. LAND AREA	10,000 sf
MIN. WIDTH	100'
MIN. DEPTH	100'
MIN. FRONT YARD	25'
MIN. REAR YARD	20'
MIN. SIDE YARD	25'
MAX. HEIGHT	2 STORY / 35'
MAX. BLDG COVERAGE	25%
LOCAL R.O.W WIDTH	50'
CUL DE SAC RADIUS	50' (PAVEMENT)
MAX. DEAD END LENGTH	600'

- NOTES:**
1. PROPOSED SUBDIVISION WILL REQUIRE A ZONE CHANGE FROM O-1, OPEN SPACE, AND C-1, COMMERCIAL, TO R-2 RESIDENTIAL.
 2. TOTAL RESIDENTIAL LOTS PROPOSED: 21
 TOTAL STORMWATER LOTS PROPOSED: 1
 TOTAL LENGTH OF ROAD: 1,744 L.F.
 3. THE APPLICANT PROPOSES PUBLIC ROADS.

SUBDIVISION PLAN
 SCALE 1" = 40'



Parcel Table

Parcel #	Area	FRONTAGE	DEPTH
1	14,170 S.F.	100.38 FT	142 FT
2	12,455 S.F.	100.32 FT	125 FT
3	10,614 S.F.	101.26 FT	105 FT
4	11,426 S.F.	107.11 FT	101 FT
5	10,086 S.F.	195.24 FT	127 FT
6	11,274 S.F.	115.08 FT	110 FT
7	12,597 S.F.	127.86 FT	113 FT
8	11,158 S.F.	100.01 FT	110 FT
9	11,233 S.F.	100.00 FT	112 FT
10	11,458 S.F.	128.56 FT	107 FT
11	14,699 S.F.	109.18 FT*	123 FT*
12	15,203 S.F.	133.12 FT*	128 FT*
13	11,251 S.F.	139.85 FT	120 FT
14	11,622 S.F.	208.07 FT	107 FT
15	10,377 S.F.	199.94 FT	106 FT
16	10,000 S.F.	100.00 FT	100.00 FT
17	13,087 S.F.	102.06 FT*	110 FT*
18	19,106 S.F.	106.49 FT*	118 FT*
19	14,136 S.F.	183.44 FT	115 FT
20	12,038 S.F.	223.88 FT	100 FT
21	10,879 S.F.	106.07 FT	101 FT
22	70,696 S.F.	N/A	N/A
23	17,578 S.F.	N/A	N/A
24	3,273 S.F.	N/A	N/A

* LOT WIDTH MEASURED AT FRONT SETBACK.

DEPARTMENT OF PERMITTING
 DIVISION OF PLANNING AND ZONING
 AS SPECIFIED
 APPROVED
 DATED DEC 4, 2018
 NO CHANGES ALLOWED WITHOUT PERMITTING
 APPROVED PLANS MUST BEAT PERMITTING

SUBDIVISION PLAN
 PRELIMINARY PLAN SUBMISSION
 HUNDRED ACRE COVE ESTATES
 MAP 811, BLOCK 1, PARCEL 3
 ZONING DISTRICT O-1 AND C-1
 SITUATED ON:
WAMPANOAG TRAIL
 EAST PROVIDENCE, RHODE ISLAND
 APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
 1414 ATWOOD AVE, JOHNSTON, RI 02919

NO.	REVISION	BY	DATE

GAROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

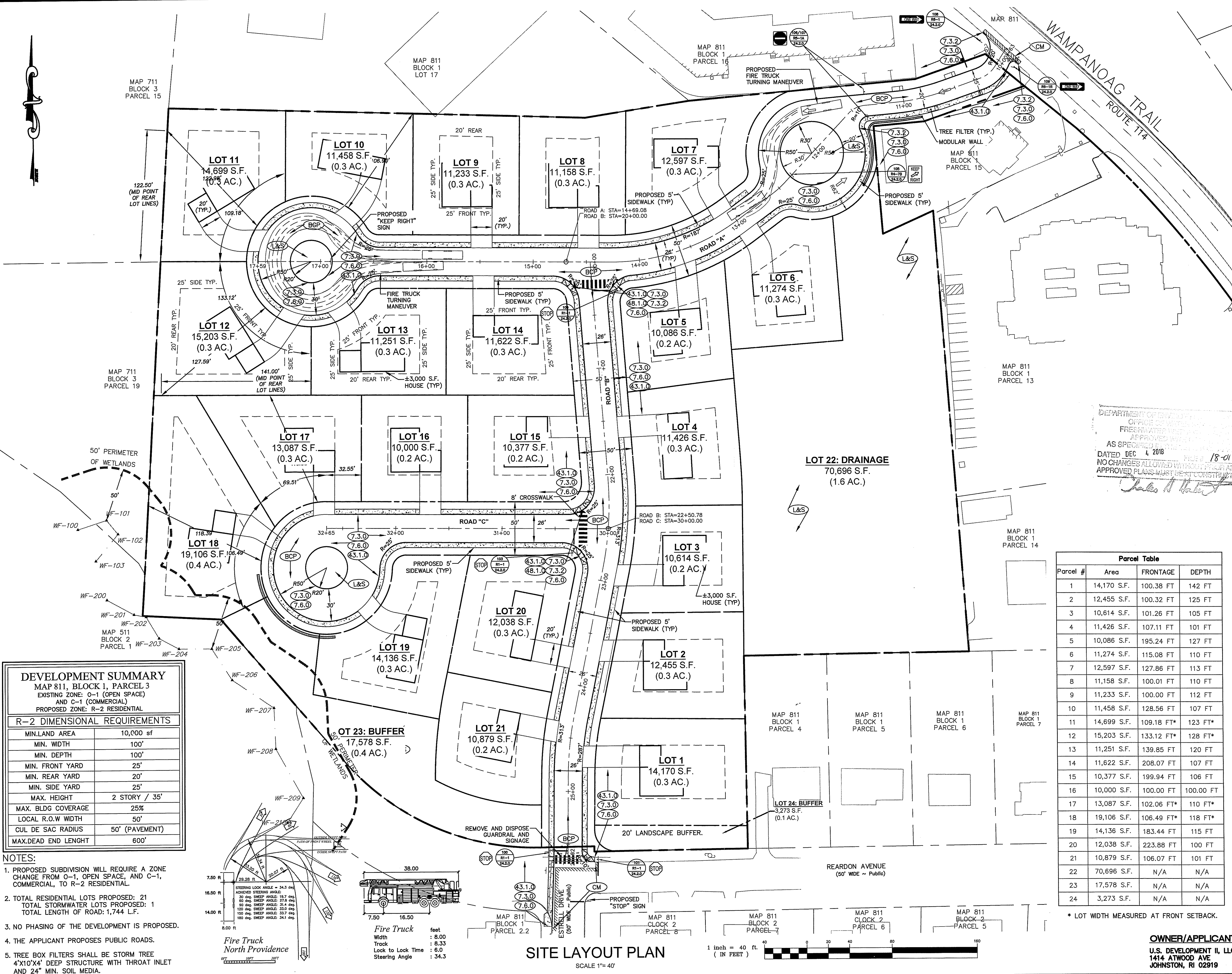
85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL: 401-273-6000

Garofalo & Associates, Inc.
 I am the duly licensed
 the Engineer/Surveyor and have been
 prepared for the owner, for this project
 project at this site and is not to be
 used for any other project without the
 or owner or one of its directors
 Environmental Management
 12/3/2018

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
C-4
 OF 15 SHEETS

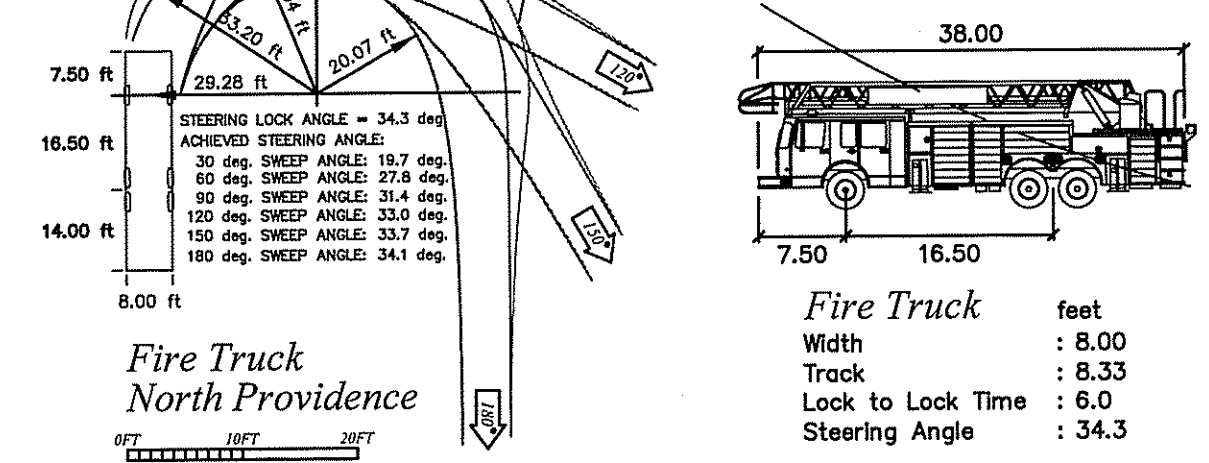
OWNER/APPLICANT:
 U.S. DEVELOPMENT II, LLC
 1414 ATWOOD AVE
 JOHNSTON, RI 02919



DEVELOPMENT SUMMARY
 MAP 811, BLOCK 1, PARCEL 3
 EXISTING ZONE: O-1 (OPEN SPACE) AND C-1 (COMMERCIAL)
 PROPOSED ZONE: R-2 RESIDENTIAL

R-2 DIMENSIONAL REQUIREMENTS	
MIN. LAND AREA	10,000 sf
MIN. WIDTH	100'
MIN. DEPTH	100'
MIN. FRONT YARD	25'
MIN. REAR YARD	20'
MIN. SIDE YARD	25'
MAX. HEIGHT	2 STORY / 35'
MAX. BLDG COVERAGE	25%
LOCAL R.O.W WIDTH	50'
CUL DE SAC RADIUS	50' (PAVEMENT)
MAX. DEAD END LENGTH	600'

- NOTES:**
- PROPOSED SUBDIVISION WILL REQUIRE A ZONE CHANGE FROM O-1, OPEN SPACE, AND C-1, COMMERCIAL, TO R-2 RESIDENTIAL.
 - TOTAL RESIDENTIAL LOTS PROPOSED: 21
 TOTAL STORMWATER LOTS PROPOSED: 1
 TOTAL LENGTH OF ROAD: 1,744 L.F.
 - NO PHASING OF THE DEVELOPMENT IS PROPOSED.
 - THE APPLICANT PROPOSES PUBLIC ROADS.
 - TREE BOX FILTERS SHALL BE STORM TREE 4'X10'X4' DEEP STRUCTURE WITH THROAT INLET AND 24" MIN. SOIL MEDIA.



Parcel Table

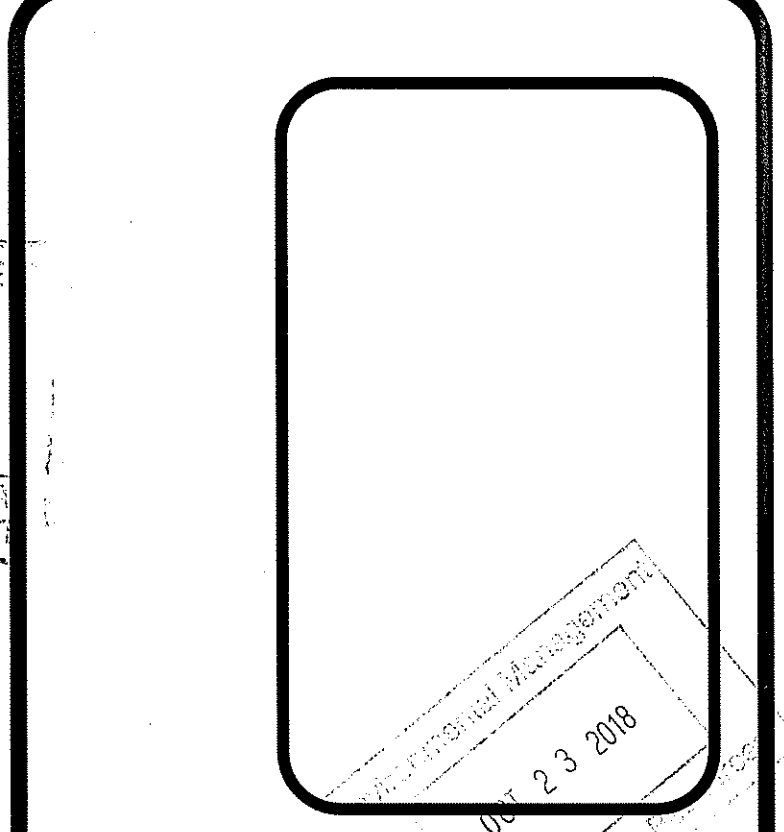
Parcel #	Area	FRONTAGE	DEPTH
1	14,170 S.F.	100.38 FT	142 FT
2	12,455 S.F.	100.32 FT	125 FT
3	10,614 S.F.	101.26 FT	105 FT
4	11,426 S.F.	107.11 FT	101 FT
5	10,086 S.F.	195.24 FT	127 FT
6	11,274 S.F.	115.08 FT	110 FT
7	12,597 S.F.	127.86 FT	113 FT
8	11,158 S.F.	100.01 FT	110 FT
9	11,233 S.F.	100.00 FT	112 FT
10	11,458 S.F.	128.56 FT	107 FT
11	14,699 S.F.	109.18 FT*	123 FT*
12	15,203 S.F.	133.12 FT*	128 FT*
13	11,251 S.F.	139.85 FT	120 FT
14	11,622 S.F.	208.07 FT	107 FT
15	10,377 S.F.	199.94 FT	106 FT
16	10,000 S.F.	100.00 FT	100.00 FT
17	13,087 S.F.	102.06 FT*	110 FT*
18	19,106 S.F.	106.49 FT*	118 FT*
19	14,136 S.F.	183.44 FT	115 FT
20	12,038 S.F.	223.88 FT	100 FT
21	10,879 S.F.	106.07 FT	101 FT
22	70,696 S.F.	N/A	N/A
23	17,578 S.F.	N/A	N/A
24	3,273 S.F.	N/A	N/A

* LOT WIDTH MEASURED AT FRONT SETBACK.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATERS
 FRESHWATER DIVISION
 APPROVED WITH COMMENTS
 AS SPECIFIED IN PERMIT
 DATED DEC 4 2018 FILE # 18-0159
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles W. Hester

SITE PLAN LAYOUT
 PRELIMINARY PLAN SUBMISSION
 HUNDRED ACRE COVE ESTATES
 MAP 811, BLOCK 1, PARCEL 3
 ZONING DISTRICT O-1 AND C-1
 SITUATED ON:
WAMPANOAG TRAIL
 EAST PROVIDENCE, RHODE ISLAND
 APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
 1414 ATWOOD AVE, JOHNSTON, RI 02919

NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	NAM	10/18/18



GAROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

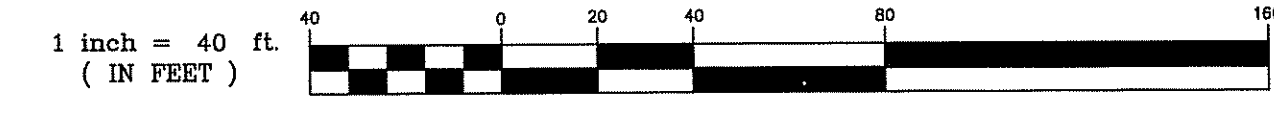
85 CORLISS STREET
 P.O. BOX 8145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

Garofalo & Associates ©
 These drawings are the property of Garofalo & Associates, Inc. and are prepared for the owner. For this project at this site and is not to be used for any other purpose, location or project without the written approval of this owner or one of its directors.

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
C-5
 OF 15 SHEETS

SITE LAYOUT PLAN
 SCALE 1"=40'



OWNER/APPLICANT:
 U.S. DEVELOPMENT II, LLC
 1414 ATWOOD AVE
 JOHNSTON, RI 02919



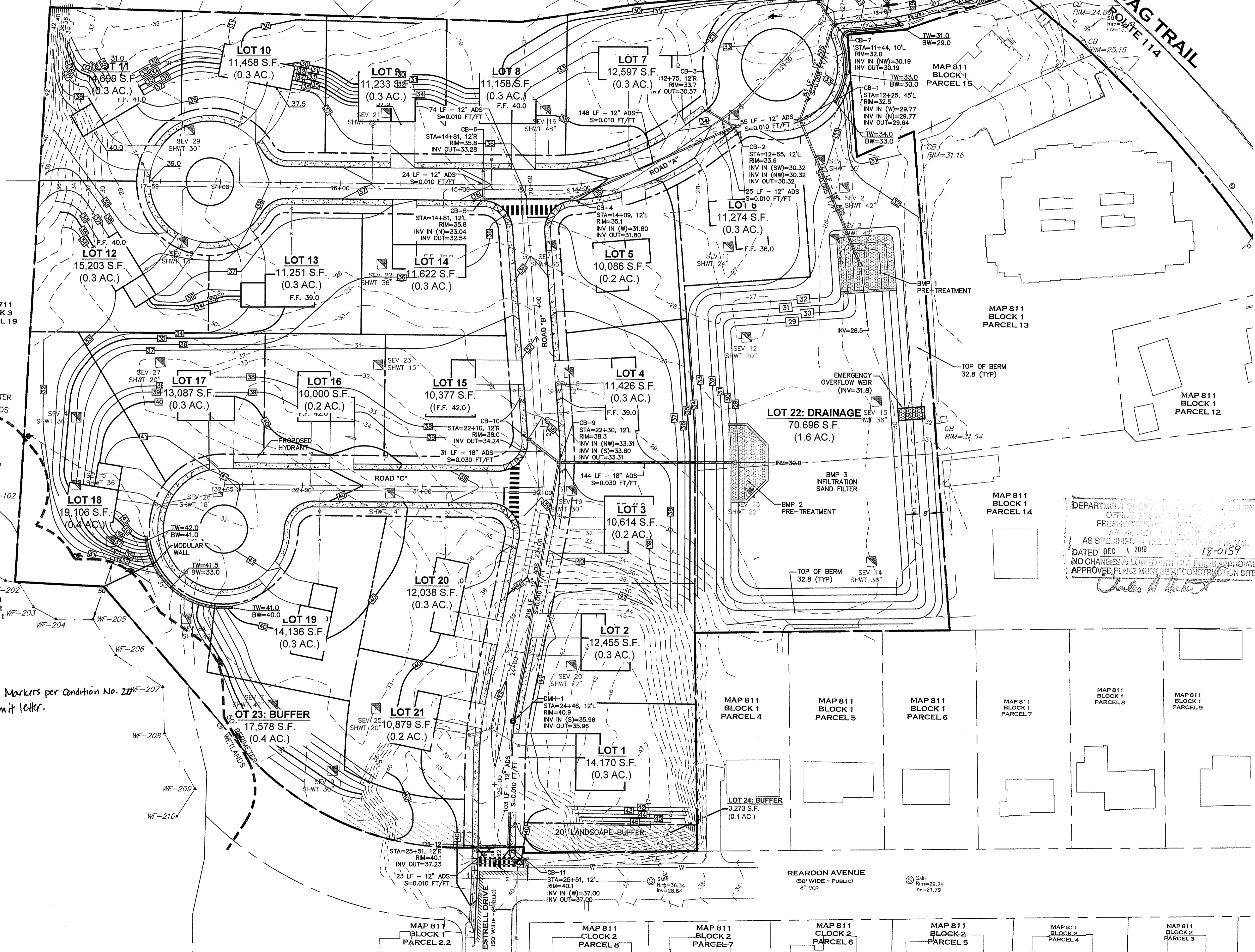
MAP 711
BLOCK 3
PARCEL 15

MAP 811
BLOCK 1
LOT 17

MAP 811
BLOCK 1
PARCEL 16

MAP 811

WAMPANOAG TRAIL
ROUTE 114



MAP 711
BLOCK 3
PARCEL 19

MAP 811
BLOCK 1
PARCEL 13

MAP 811
BLOCK 1
PARCEL 12

MAP 811
BLOCK 1
PARCEL 14

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER DIVISION
APPROVED FOR CONSTRUCTION
AS SPECIFIED BY THE PERMITTING AGENCY
DATED DEC 4, 2018 FILE # 18-0159
NO CHANGES ALLOWED WITHOUT FIELD APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles H. Hester

Environmental Management
DEC 23 2018

Garofalo & Associates ©
These drawings are the property of
Garofalo & Associates, Inc. and have
been prepared for the use of the
project for which they are made and
are not to be used for any other
purpose, location, or project
without the written consent of
this owner or one of its directors.

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

86 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
C-6
OF 15 SHEETS

GRADING AND DRAINAGE PLAN
SCALE 1"=40'



OWNER/APPLICANT:
U.S. DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, RI 02919

Permanent Markers per Condition No. 20 of the permit letter.

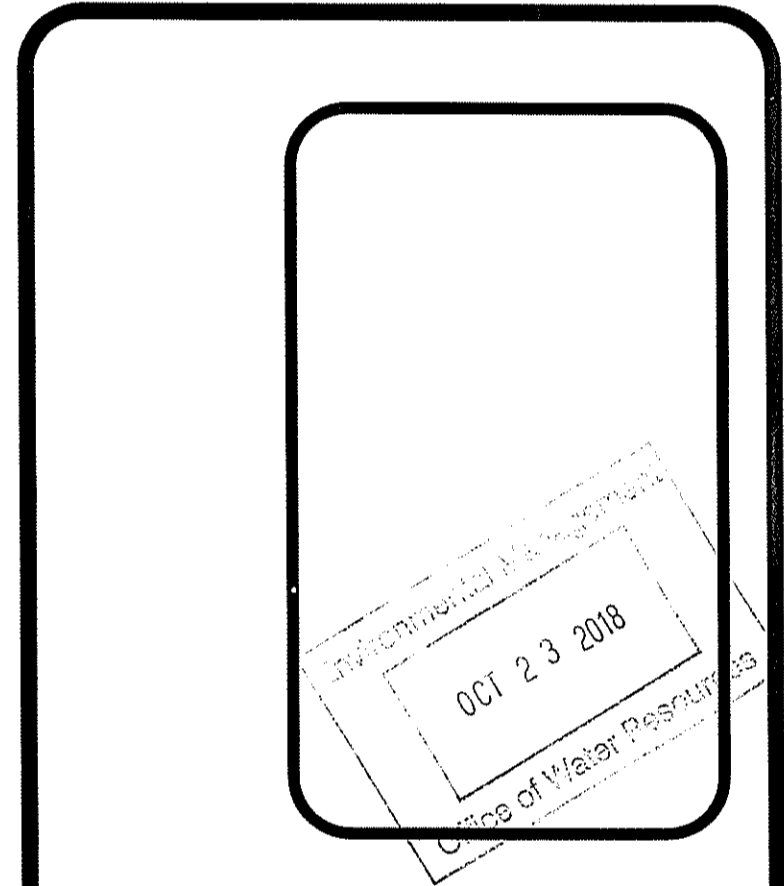


UTILITIES PLAN

PRELIMINARY PLAN SUBMISSION
 HUNDRED ACRE COVE ESTATES
 MAP 811, BLOCK 1, PARCEL 3
 ZONING DISTRICT O-1 AND C-1
 SITUATED ON:
WAMPANOAG TRAIL
 EAST PROVIDENCE, RHODE ISLAND
 APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
 1414 ATWOOD AVE., JOHNSTON, RI 02919

NOTE
 A UTILITY PERMIT IS REQUIRED
 TO BE SUBMITTED AND
 APPROVED PRIOR TO ANY
 UTILITY WORK BEING DONE IN
 THE STATE'S RIGHT OF WAY.

NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	NJM	10/18/18



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF PERMITTING
 FRESHWATER DIVISION
 APPROVED
 AS SPECIFIED IN THE UTILITY PLAN
 DATED DEC 4 2018 FILE # 18-0159
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christopher J. Heston

GAROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

Garofalo & Associates ©
 These drawings are the property of
 the Engineer/Surveyor and have been
 prepared for the use and benefit of the
 project at this site and are not to be
 used for any other purpose, location
 or owner without written consent of
 this owner or one of its directors

88 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-8000

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

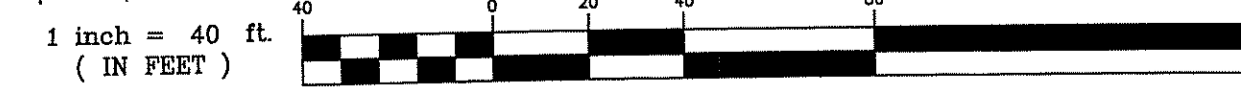
SHEET

C-7

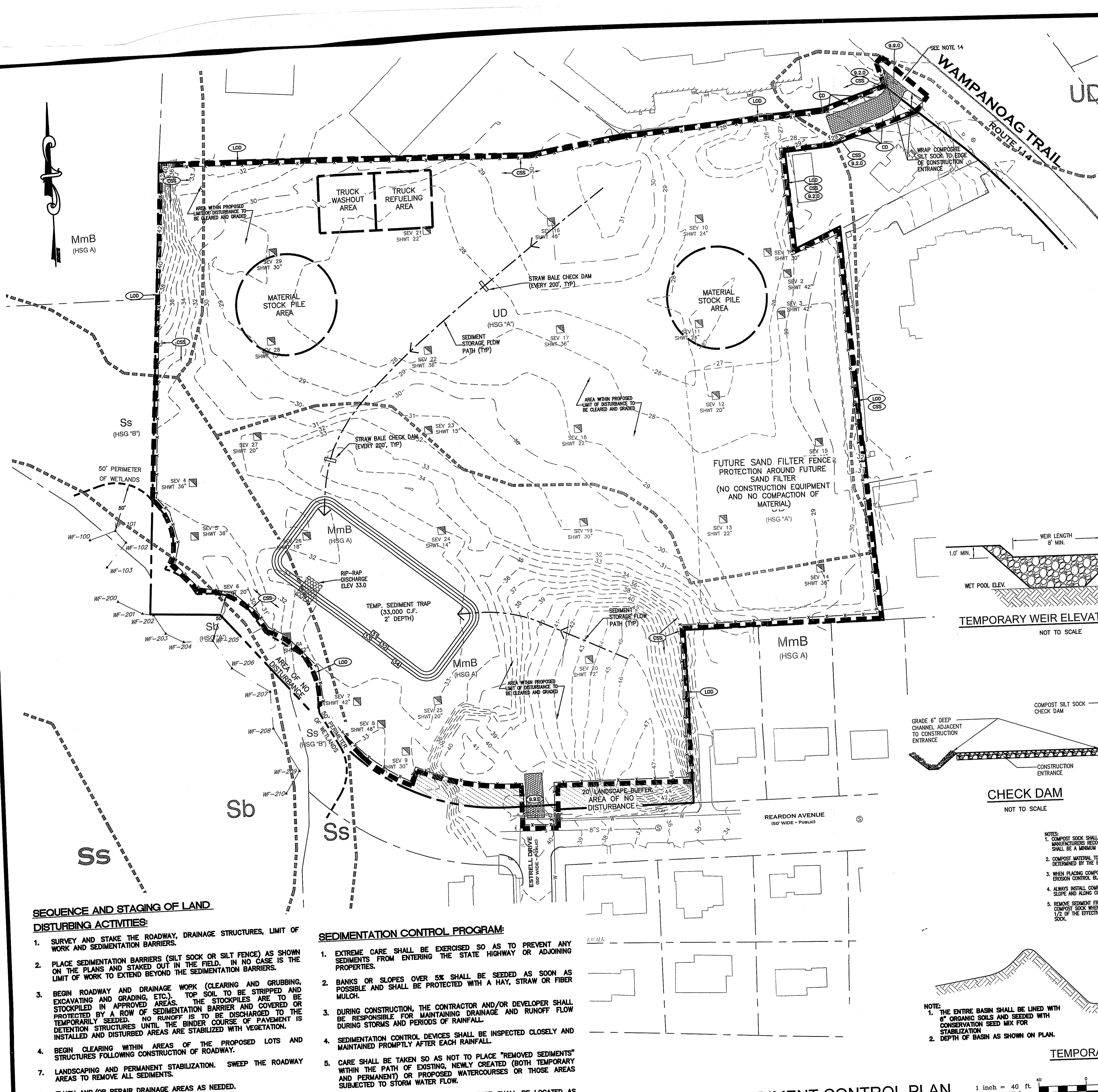
OWNER/APPLICANT:
 U.S. DEVELOPMENT II, LLC
 1414 ATWOOD AVE
 JOHNSTON, RI 02919

OF 15 SHEETS

UTILITIES PLAN
 SCALE 1" = 40'



1 inch = 40 ft
 (IN FEET)



GENERAL SEDIMENT CONTROL NOTES:

- DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.
- THE SEED MIX SHALL BE INOCULATED WITHIN TWENTY FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX FOR TEMPORARY EROSION CONTROL AND SOIL STABILIZATION SHALL BE COMPRISED OF THE FOLLOWING:

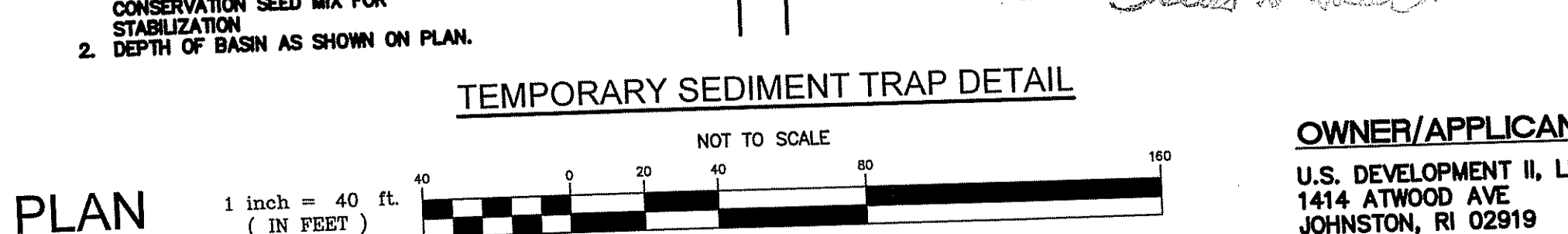
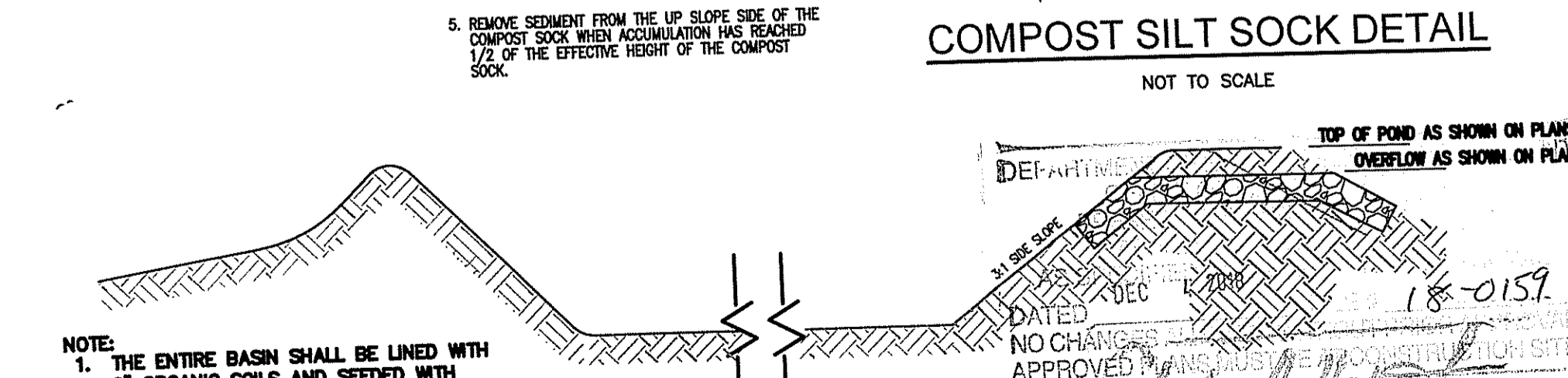
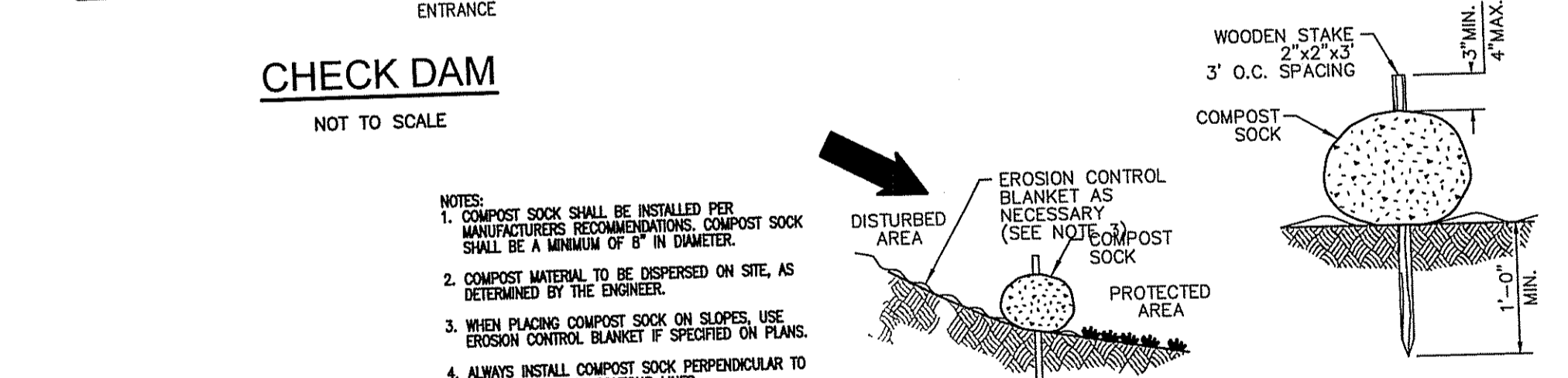
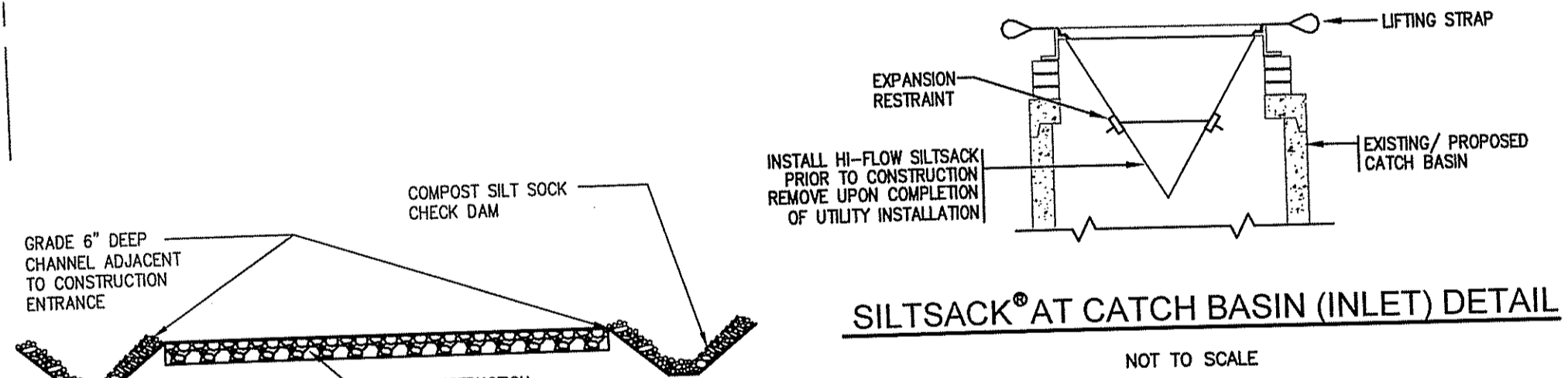
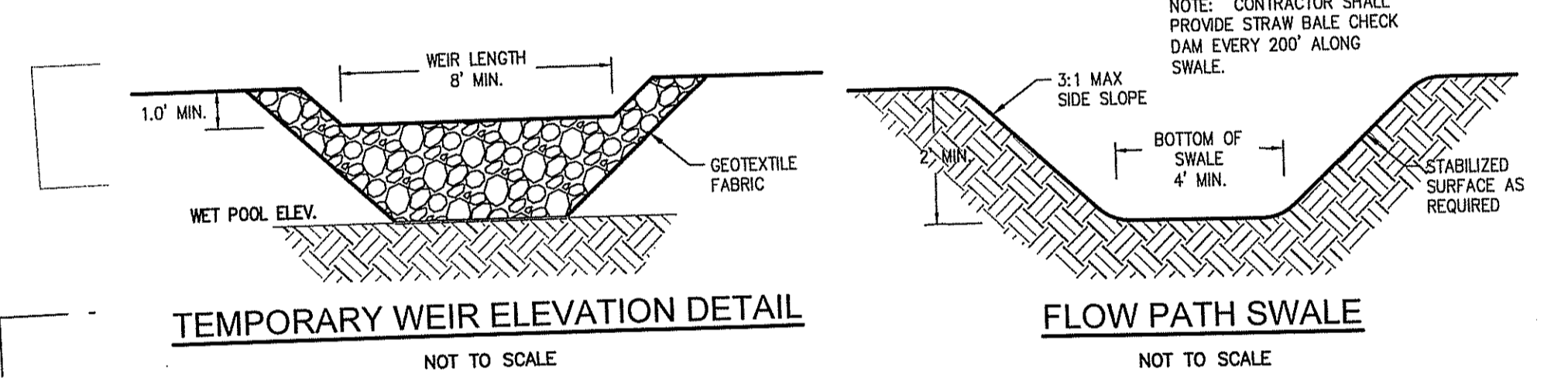
TYPE	% BY WEIGHT
CREeping RED FESCUE	70
ASTORIA BENTGRASS	5
BIRDFOOT TREFFOIL	15
PERENNIAL RYEGRASS	10

APPLICATION RATE 100 LBS/ACRE

LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) YEAR, AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR FLOOD PLAINS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED AND COMPLETELY ENCLOSED WITH A CONTINUOUS LINE OF STAKED HAYBALES AND/OR SILTFENCE. (SEE DETAIL)
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- INSPECT HIGHWAY AT END OF EACH WORK DAY AND REMOVE ANY ACCUMULATED SEDIMENTS.

SOIL EROSION & SEDIMENT CONTROL PLAN
 PRELIMINARY PLAN SUBMISSION
 HUNDRED ACRE COVE ESTATES
 MAP 811, BLOCK 1, PARCEL 3
 ZONING DISTRICT O-1 AND C-1
 SITUATED ON:
WAMPANOAG TRAIL
 EAST PROVIDENCE, RHODE ISLAND
 APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
 1414 ATWOOD AVE. JOHNSTON, RI 02919

NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	NAM	10/18/18



SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES:

- SURVEY AND STAKE THE ROADWAY, DRAINAGE STRUCTURES, LIMIT OF WORK AND SEDIMENTATION BARRIERS.
- PLACE SEDIMENTATION BARRIERS (SILT SOCK OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
- BEGIN ROADWAY AND DRAINAGE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). TOP SOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIER AND COVERED OR TEMPORARILY SEEDED. NO RUNOFF IS TO BE DISCHARGED TO THE DETENTION STRUCTURES UNTIL THE BINDER COURSE OF PAVEMENT IS INSTALLED AND DISTURBED AREAS ARE STABILIZED WITH VEGETATION.
- BEGIN CLEARING WITHIN AREAS OF THE PROPOSED LOTS AND STRUCTURES FOLLOWING CONSTRUCTION OF ROADWAY.
- LANDSCAPING AND PERMANENT STABILIZATION. SWEEP THE ROADWAY AREAS TO REMOVE ALL SEDIMENTS.
- FLUSH AND/OR REPAIR DRAINAGE AREAS AS NEEDED.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

SEDIMENTATION CONTROL PROGRAM:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES.
- BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
- ADDITIONAL SILT SOCKS AND/OR SILT FENCE SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.

SOIL EROSION & SEDIMENT CONTROL PLAN
SCALE 1"=40'



OWNER/APPLICANT:
 U.S. DEVELOPMENT II, LLC
 1414 ATWOOD AVE
 JOHNSTON, RI 02919

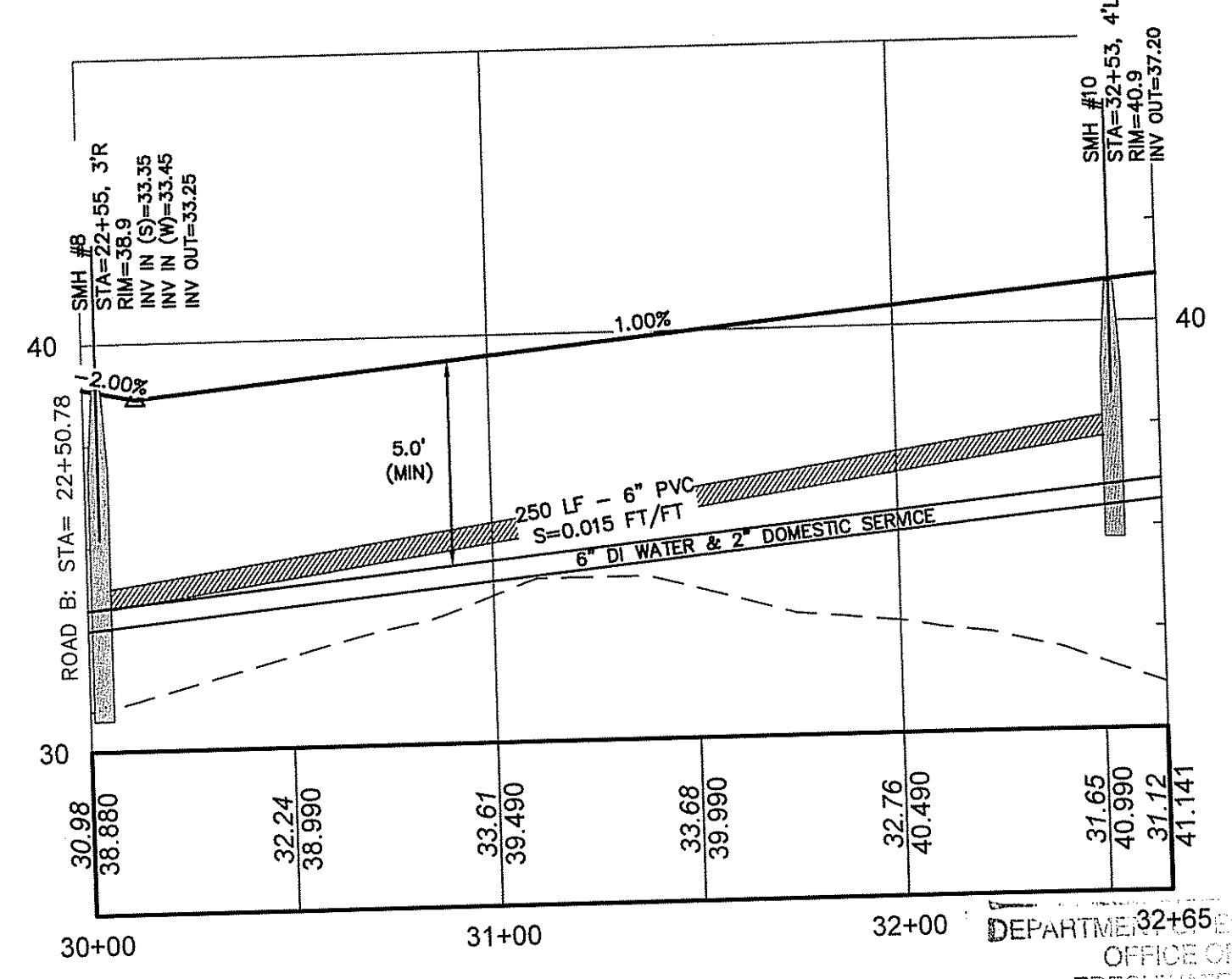
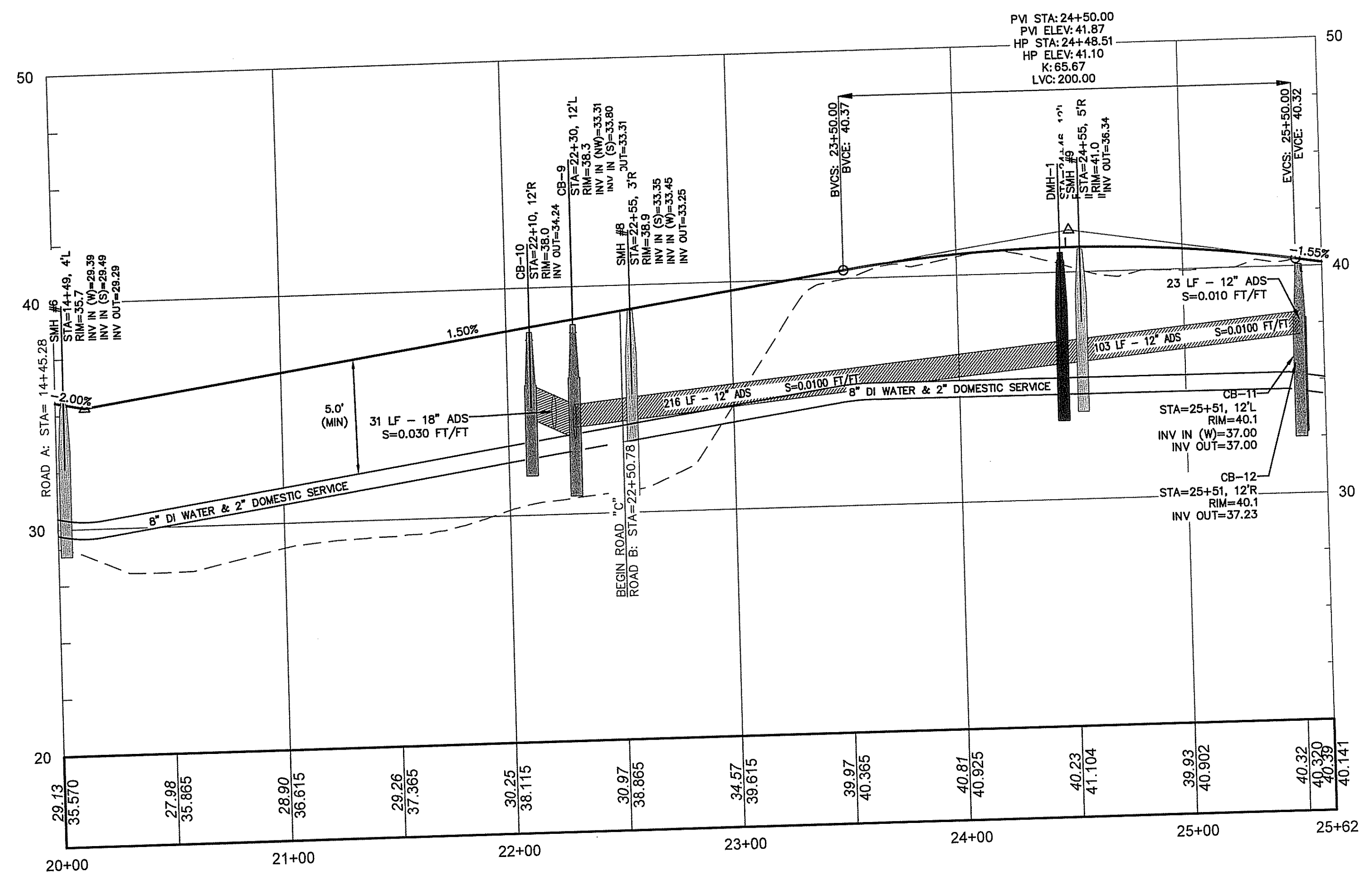
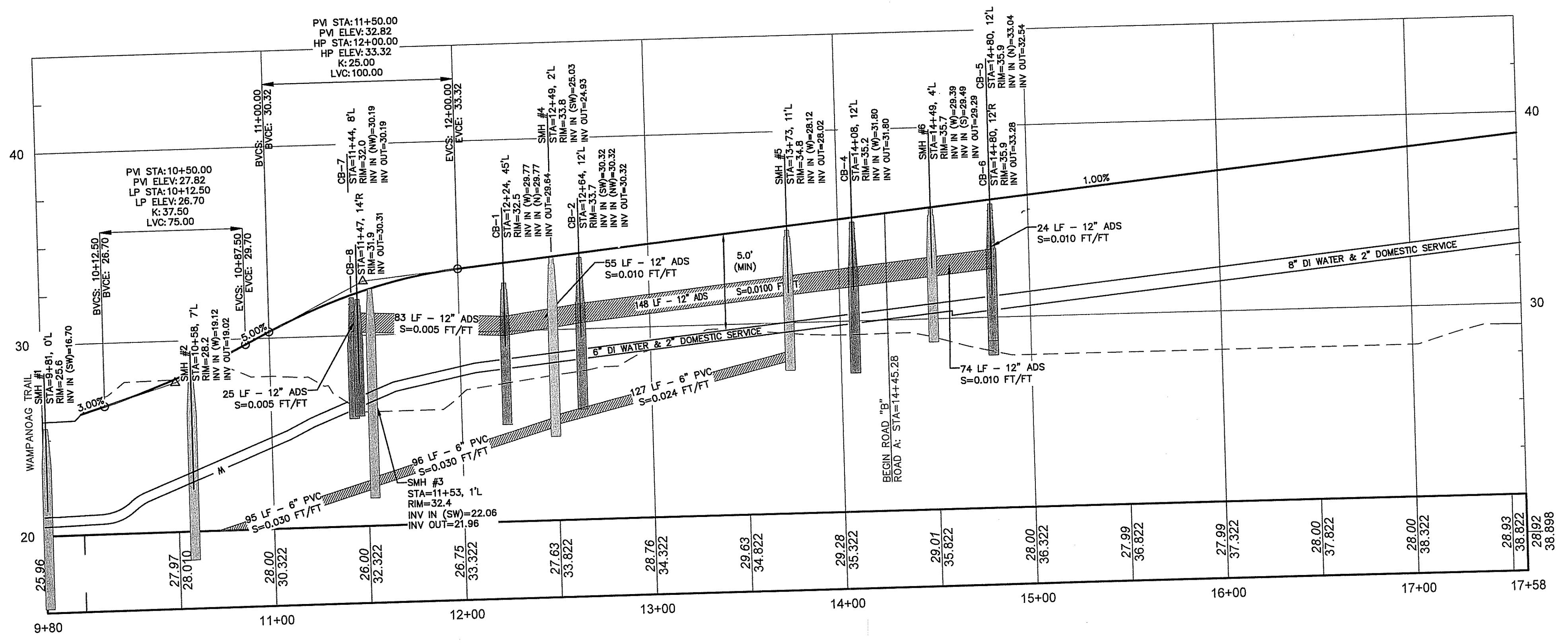
GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
 85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL: 401-273-6000

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
C-8
 OF 15 SHEETS

ROADWAY PLAN AND PROFILE-2
PRELIMINARY PLAN SUBMISSION
HUNDRED ACRE COVE ESTATES
 MAP 811, BLOCK 1, PARCEL 3
 ZONING DISTRICT O-1 AND C-1
 SITUATED ON:
WAMPANOAG TRAIL
 EAST PROVIDENCE, RHODE ISLAND
 APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
 1414 ATWOOD AVE, JOHNSTON, RI 02919

NO.	REVISION	BY	DATE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WATERS PROGRAM
 APPROVED WITH COMMENTS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 1 2018 FILE # 18-0159
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hester

OWNER/APPLICANT:
 U.S. DEVELOPMENT II, LLC
 1414 ATWOOD AVE
 JOHNSTON, RI 02919

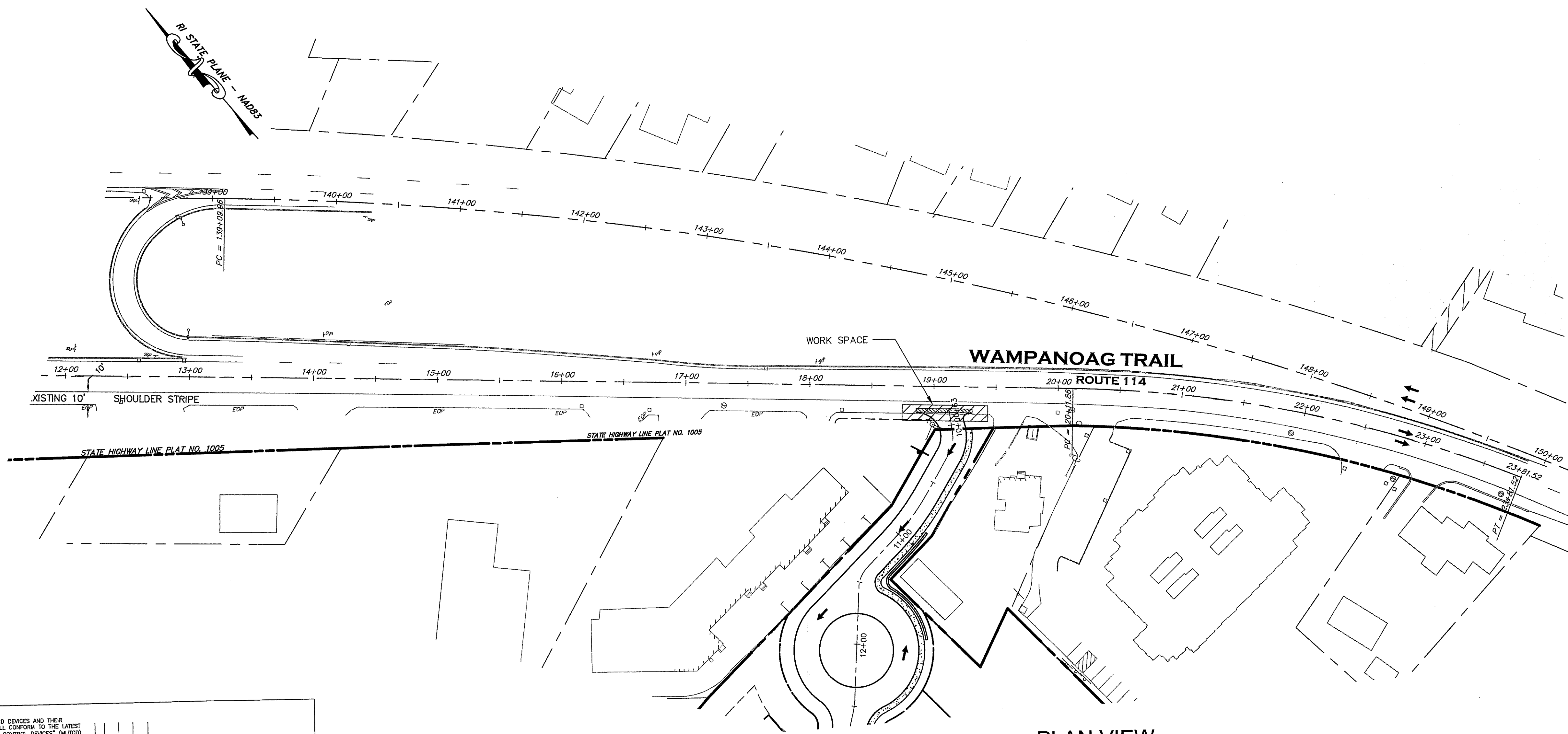
GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORDESS STREET
 P.O. BOX 6145
 PROVIDENCE, RI 02940
 TEL. 401-273-6000

Garofalo & Associates ©
 These drawings are the property of
 the Engineer/Surveyor and have been
 prepared for the owner. It is not to be
 used for any other purpose, location
 or owner without written consent of
 this owner or one of its directors.

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
C-9
 OF 15 SHEETS



PLAN VIEW
SCALE 1"=50'

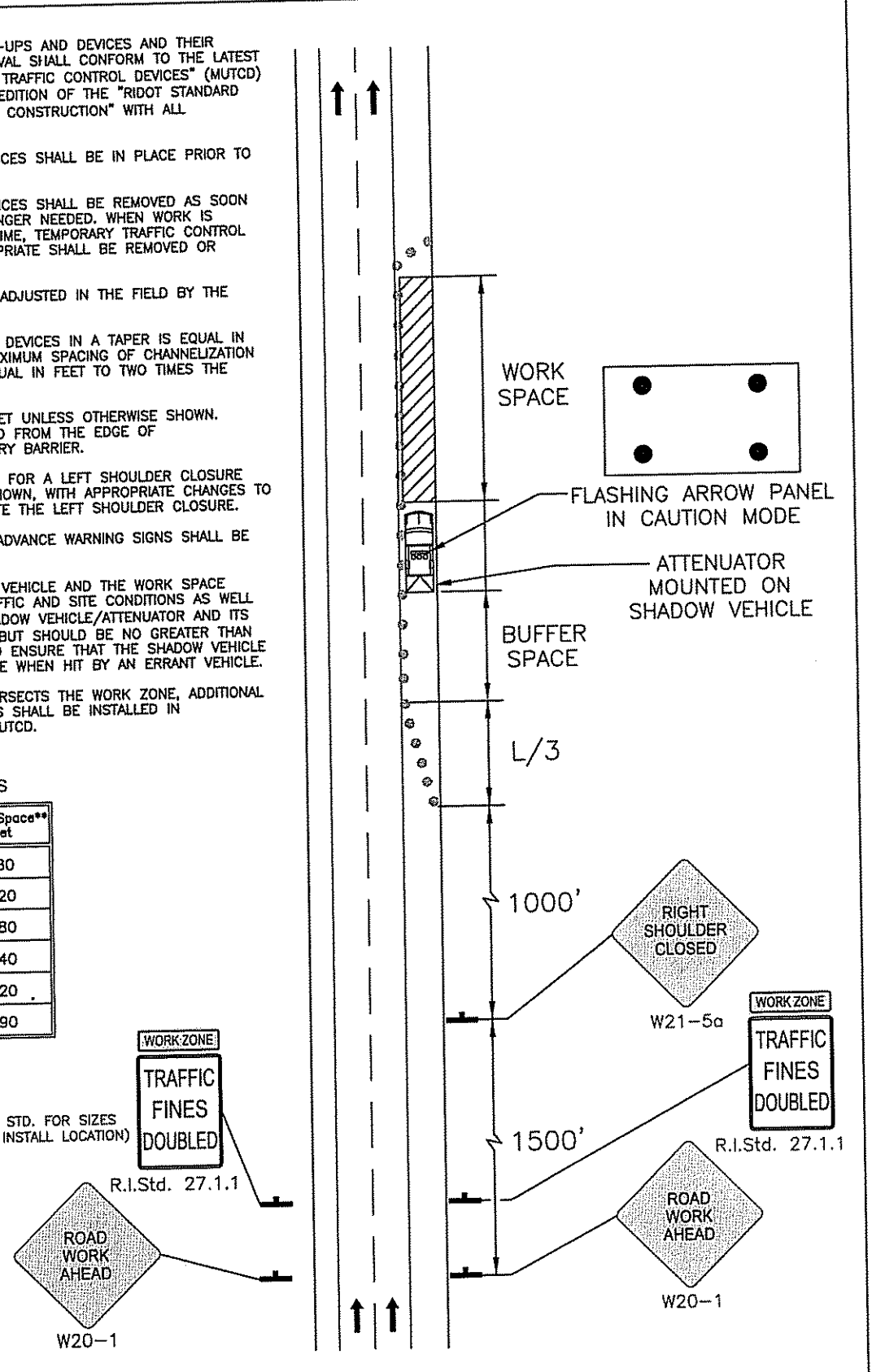
NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "ROAD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
6. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIERS.
7. TEMPORARY TRAFFIC CONTROL SET-UP FOR A LEFT SHOULDER CLOSURE SHALL BE SIMILAR TO THE SET-UP SHOWN, WITH APPROPRIATE CHANGES TO SIGNS AND OTHER DEVICES TO INDICATE THE LEFT SHOULDER CLOSURE.
8. THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 48" X 48".
9. THE DISTANCE BETWEEN THE SHADOW VEHICLE AND THE WORK SPACE SHOULD BE SELECTED BASED ON TRAFFIC AND SITE CONDITIONS AS WELL AS THE CHARACTERISTICS OF THE SHADOW VEHICLE/ATTENUATOR AND ITS MANUFACTURER'S RECOMMENDATIONS, BUT SHOULD BE NO GREATER THAN THE MINIMUM DISTANCE SUFFICIENT TO ENSURE THAT THE SHADOW VEHICLE WILL NOT ROLL INTO THE WORK SPACE WHEN HIT BY AN ERRANT VEHICLE.
10. WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

TAPER AND BUFFER LENGTHS

Speed Limit	Taper Length ^a Feet	Buffer Space ^b Feet
40 MPH	320	180
45 MPH	540	220
50 MPH	600	280
55 MPH	660	340
60 MPH	720	420
65 MPH	780	490

^a Required
^b Suggested



TYPICAL SHOULDER CLOSURE ON FREEWAY OR EXPRESSWAY
NOT TO SCALE DATE: 12-23-08

GENERAL NOTES:

1. ALL WORK WITHIN THE STATE HIGHWAY RIGHT OF WAY SHALL CONFORM TO THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION AND RELATED ADDENDA.
2. ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, AND WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD DETAILS.
3. ALL MOUNTINGS FOR PROPOSED SIGNS SHALL CONFORM TO R.I. STD. 24.1.0.
4. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES, SERVICES, BOTH UNDERGROUND AND OVERHEAD, WITH "DIG-SAFE". ANY DAMAGE TO EXISTING UTILITIES SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED COMPANIES ARE NOTIFIED AT LEAST 48 HOURS IN ADVANCE.
5. RIGHT-OF-WAY AND BASELINE INFORMATION TAKEN FROM STATE HIGHWAY PLAT NO. 1005
7. A SIGN SHALL BE PROVIDED ALERTING TRAFFIC THAT THE SHOULDER WILL BE CLOSED DURING OFF-PEAK HOURS FROM 9AM-3PM.
8. CONTRACTOR WILL BE RESPONSIBLE FOR ALLOWING TRAFFIC TO ENTER NEIGHBORING DRIVEWAYS

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

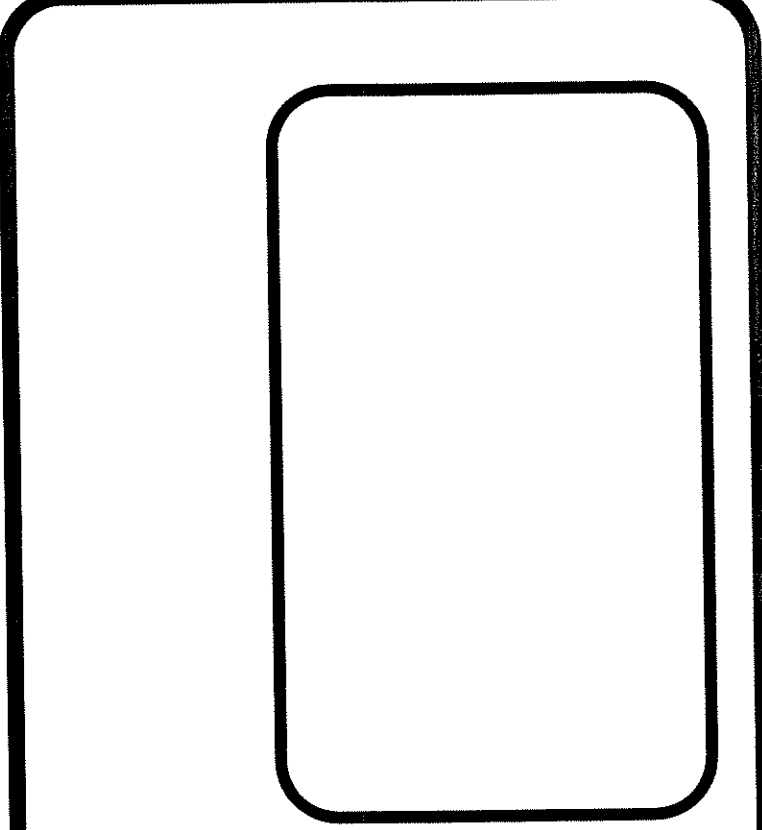
1. ALL CONSTRUCTION WARNING SIGNS, SIGN MOUNTINGS, AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON TRAFFIC CONTROL DEVICES (MUTCD), 2009 ED. AND RELATED ADDENDA, AND WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD DETAILS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES WITHIN THE CONSTRUCTION AREA.
3. AT THE END OF EACH WORKING DAY, ALL OPEN EXCAVATED AREAS SHALL BE COVERED WITH STEEL PLATING IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
4. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST CRASH SAFETY PERFORMANCE CRITERIA AS DESCRIBED IN NCHRP REPORT 350.
5. POLYETHYLENE DRUMS SHALL BE EQUIPPED WITH TYPE "C" WARNING LIGHTS (CONTINUOUS).

DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF WATER RESOURCES
FRESHWATER WATER QUALITY DIVISION
APPROVED FOR CONSTRUCTION
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 4 2018 PERMIT 18-0159
NO CHANGES ALLOWED WITHOUT WRITTEN APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



TRAFFIC IMPROVEMENT PLAN
PRELIMINARY PLAN SUBMISSION
HUNDRED ACRE COVE ESTATES
MAP 811, BLOCK 1, PARCEL 3
ZONING DISTRICT O-1 AND C-1
SITUATED ON:
WAMPANOAG TRAIL
EAST PROVIDENCE, RHODE ISLAND
APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
1414 ATWOOD AVE, JOHNSTON, RI 02919

NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	NJM	10/16/18



GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

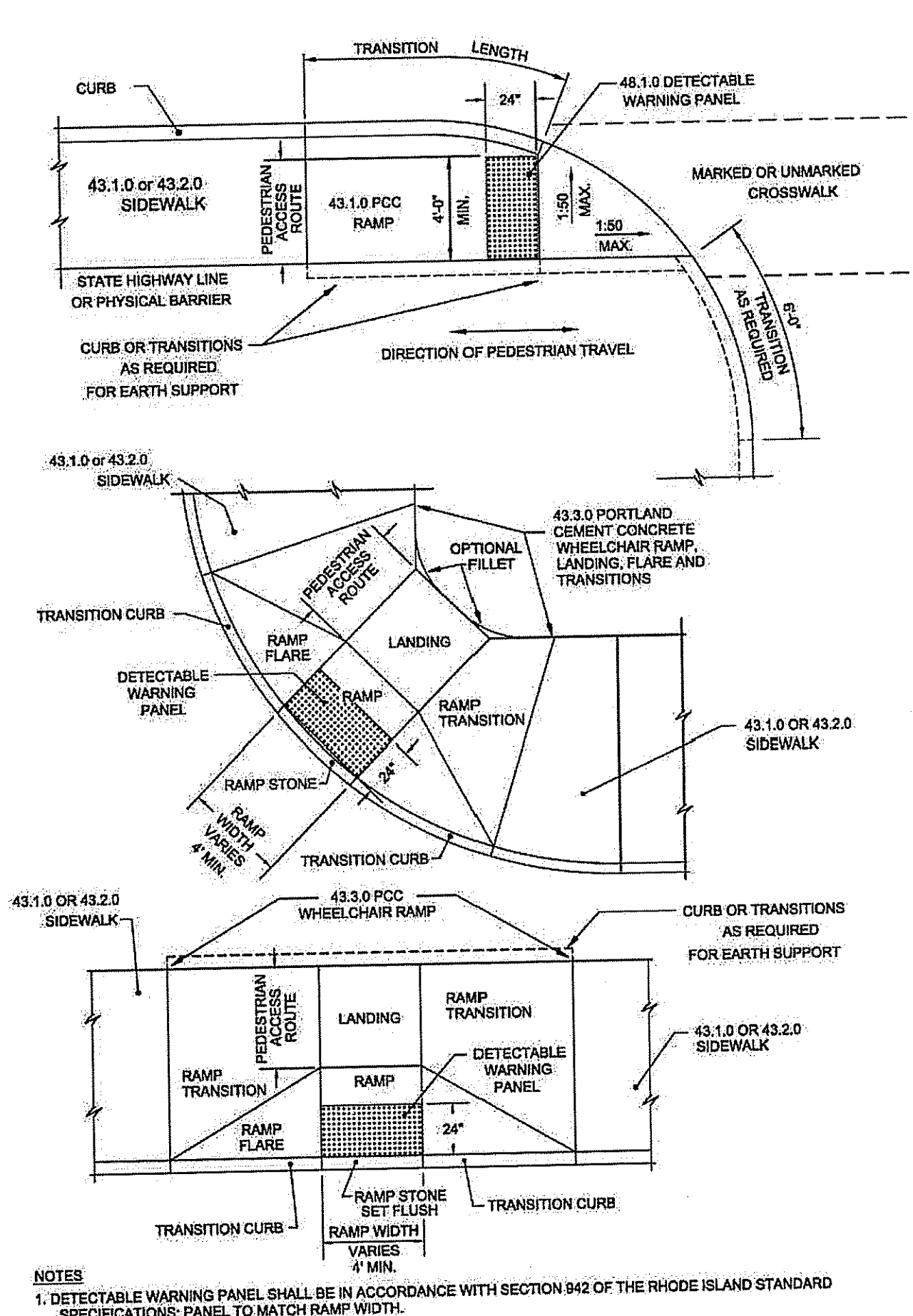
85 CORLISS STREET SUITE 230
PROVIDENCE, RI 02908
TEL: 401-273-6000

Garofalo & Associates ©
These drawings are the property of Garofalo & Associates, Inc. and are prepared for the owner for this project at this site and is not to be used for any other project without written consent of the owner or one of its directors.

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
DATE: MAY, 2018	

SHEET
C-10
OF 15 SHEETS

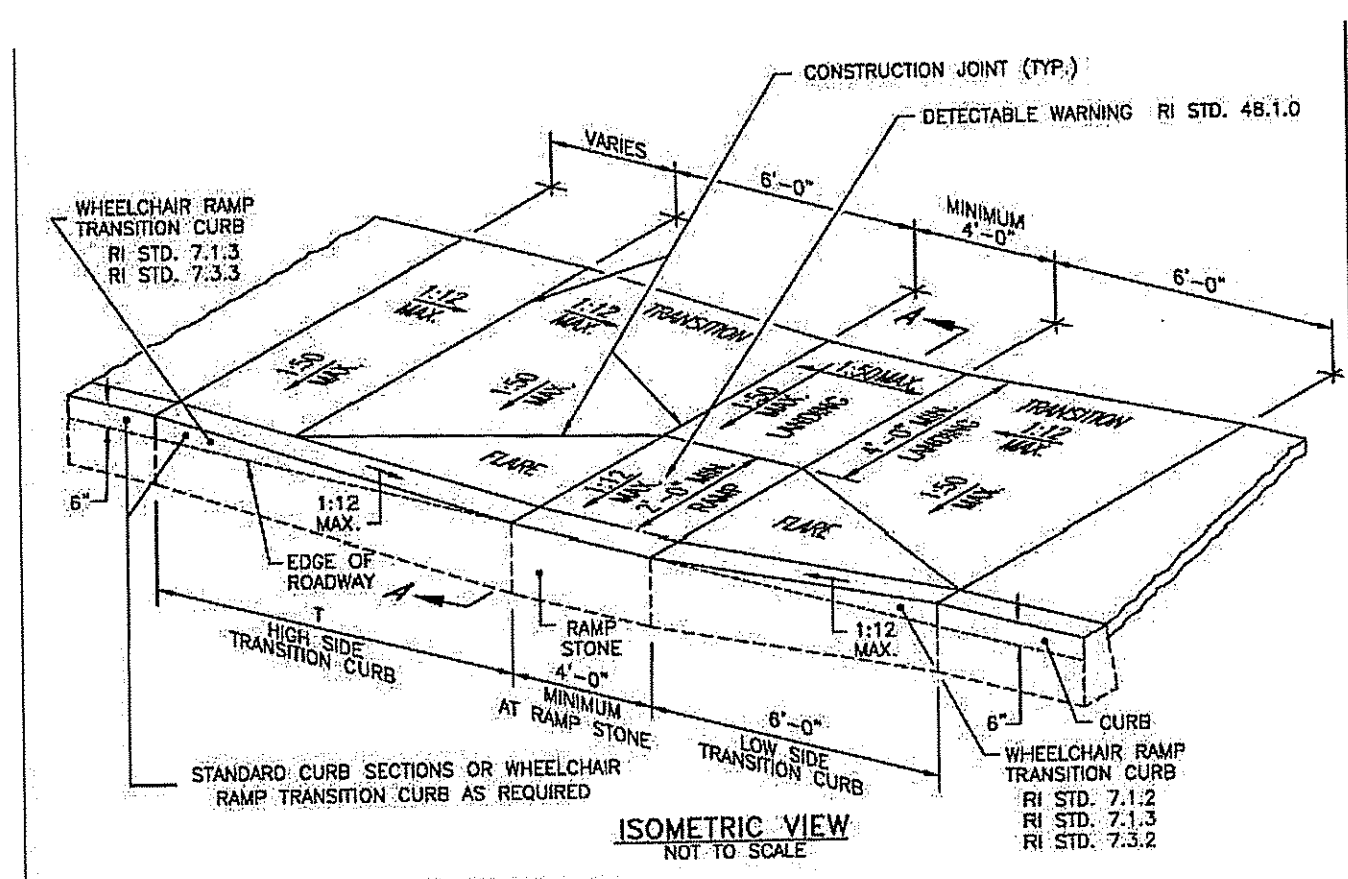
OWNER/APPLICANT:
U.S. DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, RI 02919



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
DETECTABLE WARNING PANEL PLACEMENT

NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

JUNE 15, 1998
R.I. STANDARD 43.1.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
WHEELCHAIR RAMP

ROADWAY PROFILE GRADE	T (FT)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

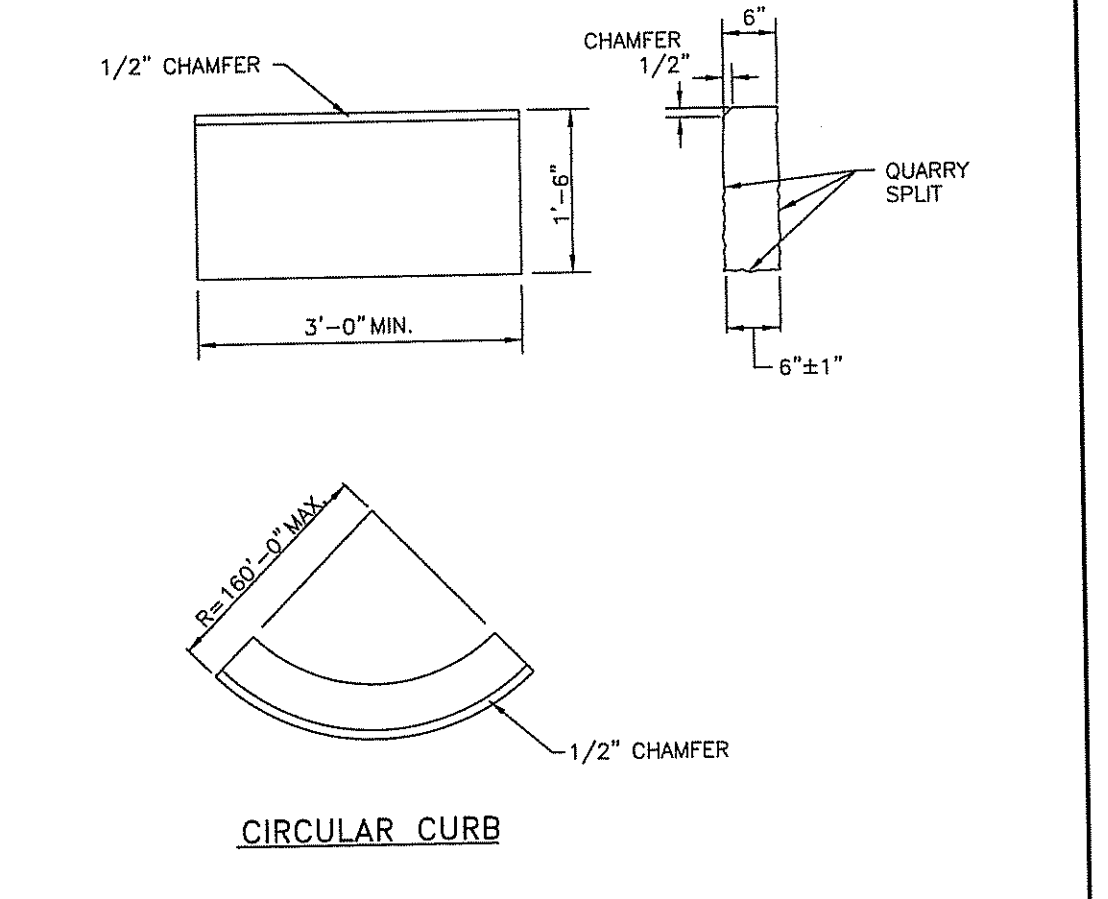
R.I. STANDARD 43.3.0

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 - WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
 - AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
 - ORANGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMP.
 - LOCATION OF WHEELCHAIR RAMP IS AS SHOWN ON CONTRACT DRAWINGS.
 - IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
 - AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
 - THE WHEELCHAIR RAMP SHALL BE CENTERED BRADLY, OPPOSITE THE RAMP, HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
 - WHERE THE ROAD PROFILE EXCEEDS SIX THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
 - IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
 - THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
 - THE WHEELCHAIR RAMP SHALL BE CENTERED BRADLY, OPPOSITE THE RAMP, HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
 - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS WHEN POSSIBLE).
 - ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
 - DETECTABLE WARNING TO BE PAID FOR UNDER SECTION 942 OF THE R.I. STANDARD SPECIFICATIONS.
 - 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMP ONLY. USE 4" DEPTH FOR TANGENT (NO-BLOCK) LOCATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
WHEELCHAIR RAMP

NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

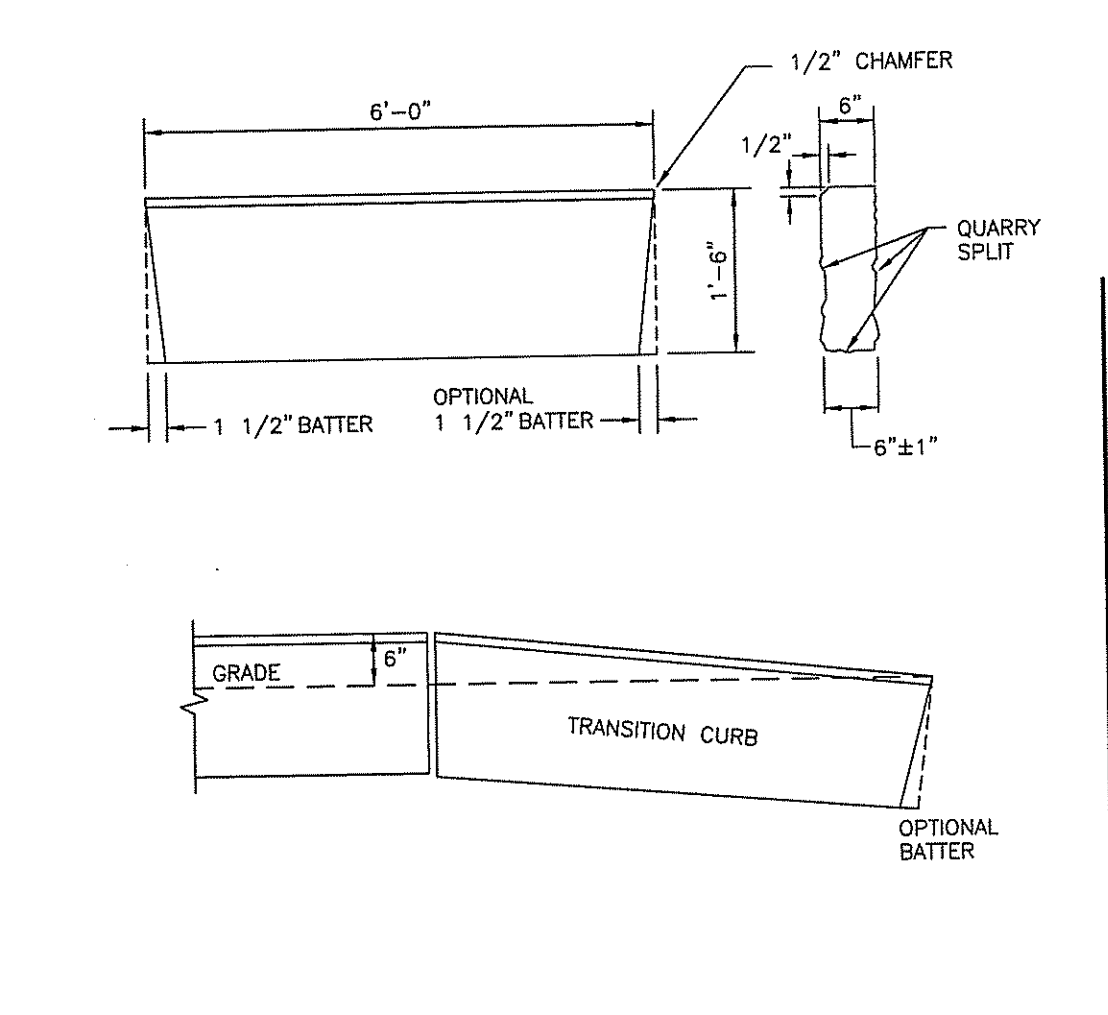
JUNE 15, 1998
R.I. STANDARD 43.3.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
GRANITE CURB

NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

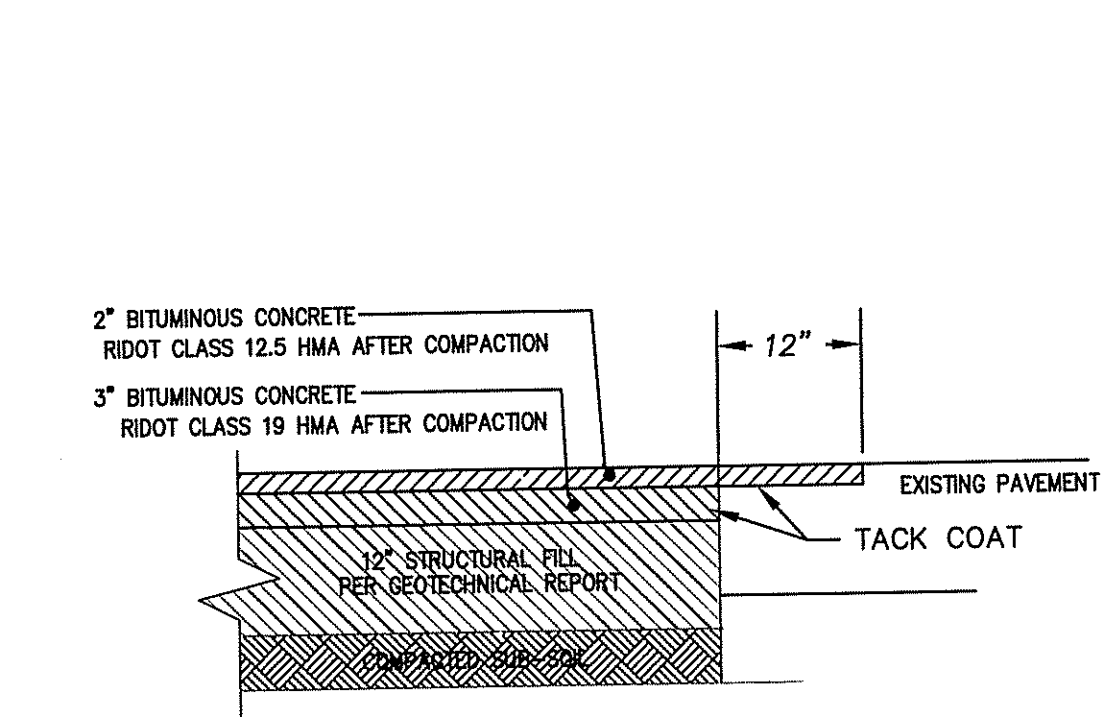
JUNE 15, 1998
R.I. STANDARD 7.3.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
6'-0" GRANITE TRANSITION CURB

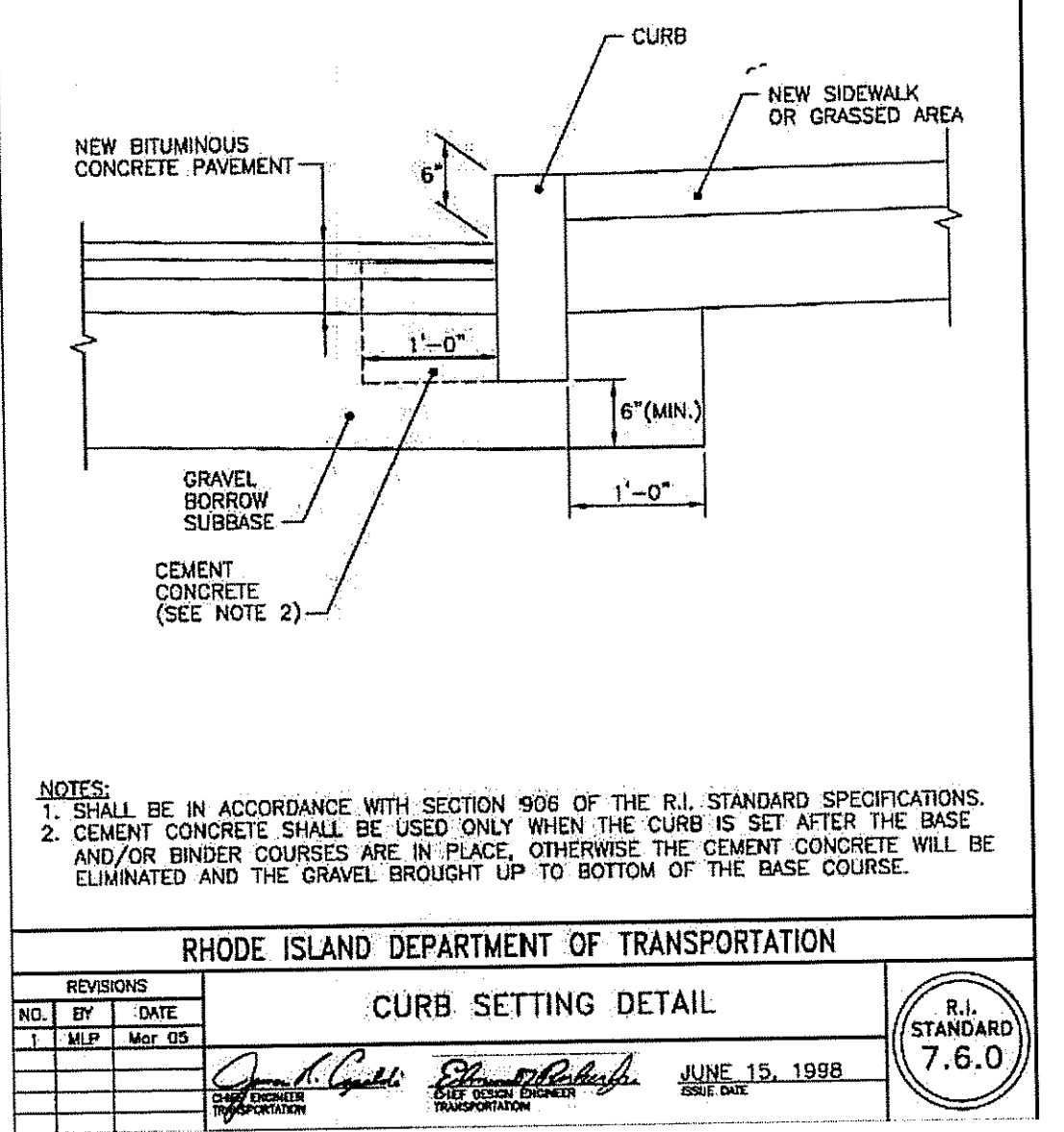
NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

JUNE 15, 1998
R.I. STANDARD 7.3.2



ALTHOUGH WIDENING OF THE EXISTING ROAD HAS BEEN OMITTED PER TRAFFIC COMMENTS, A DETAIL OF THE NEW ROAD CUT AND MATCH CONNECTION HAS BEEN ADDED TO THE PLANS.

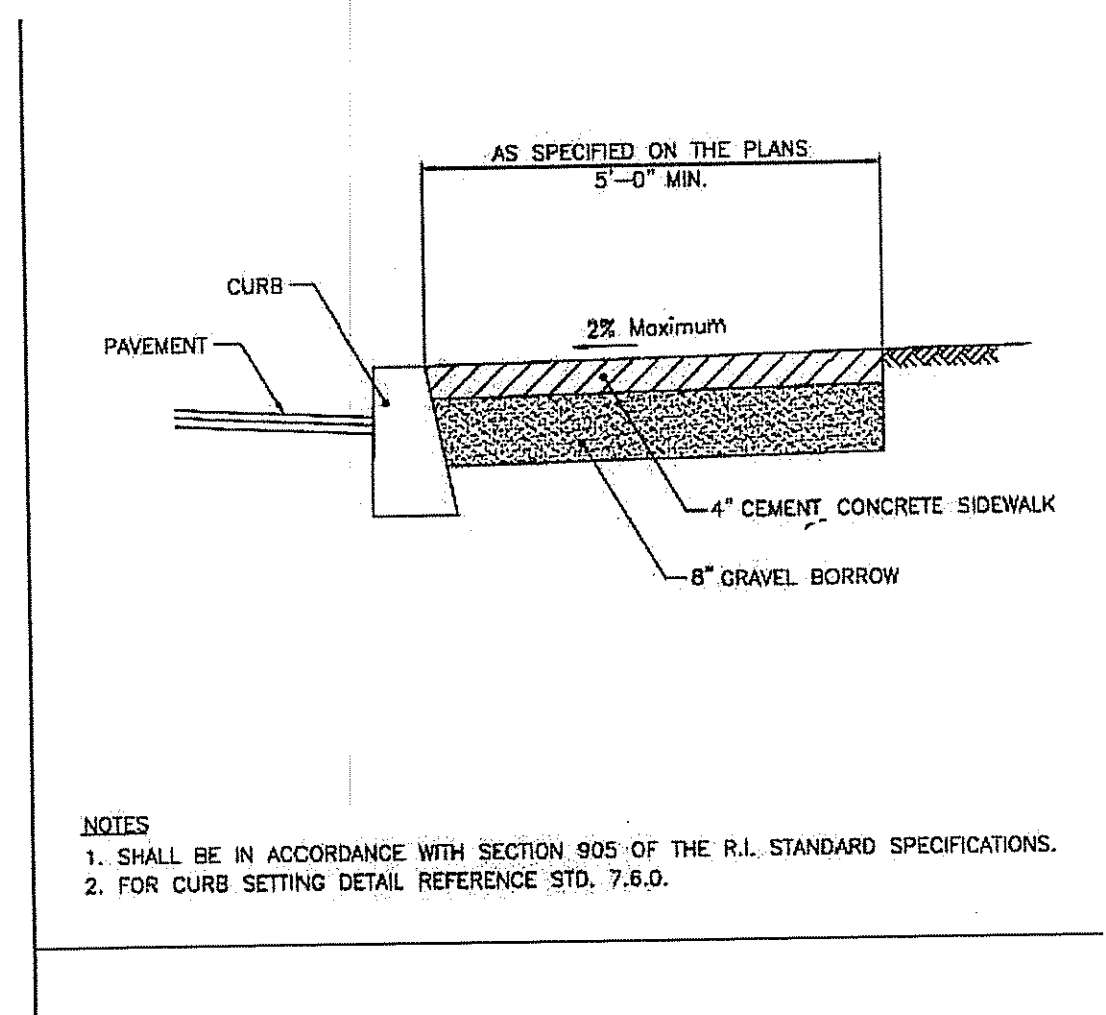
PAVEMENT CUT AND MATCH
N.T.S.



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CURB SETTING DETAIL

NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

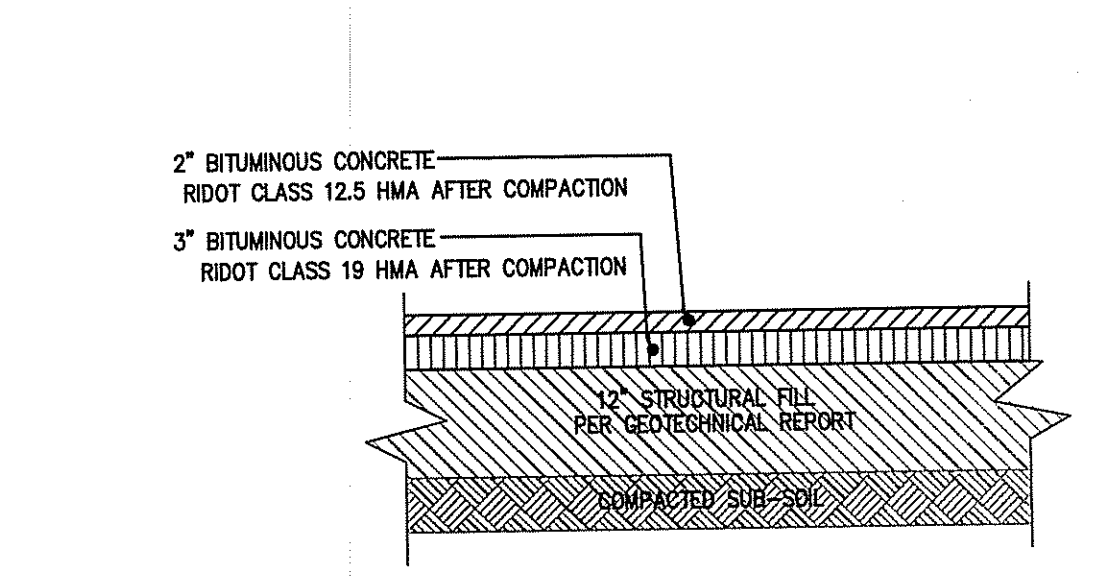
JUNE 15, 1998
R.I. STANDARD 7.6.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CEMENT CONCRETE SIDEWALK

NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

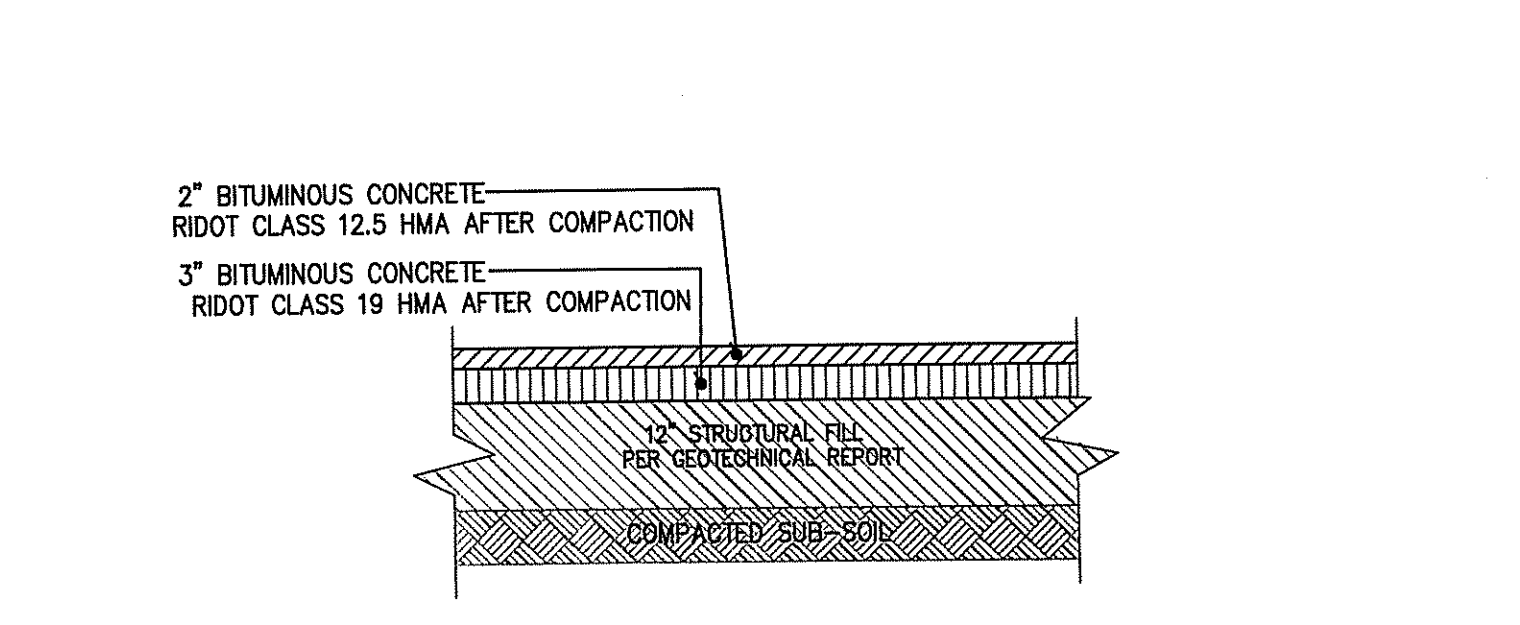
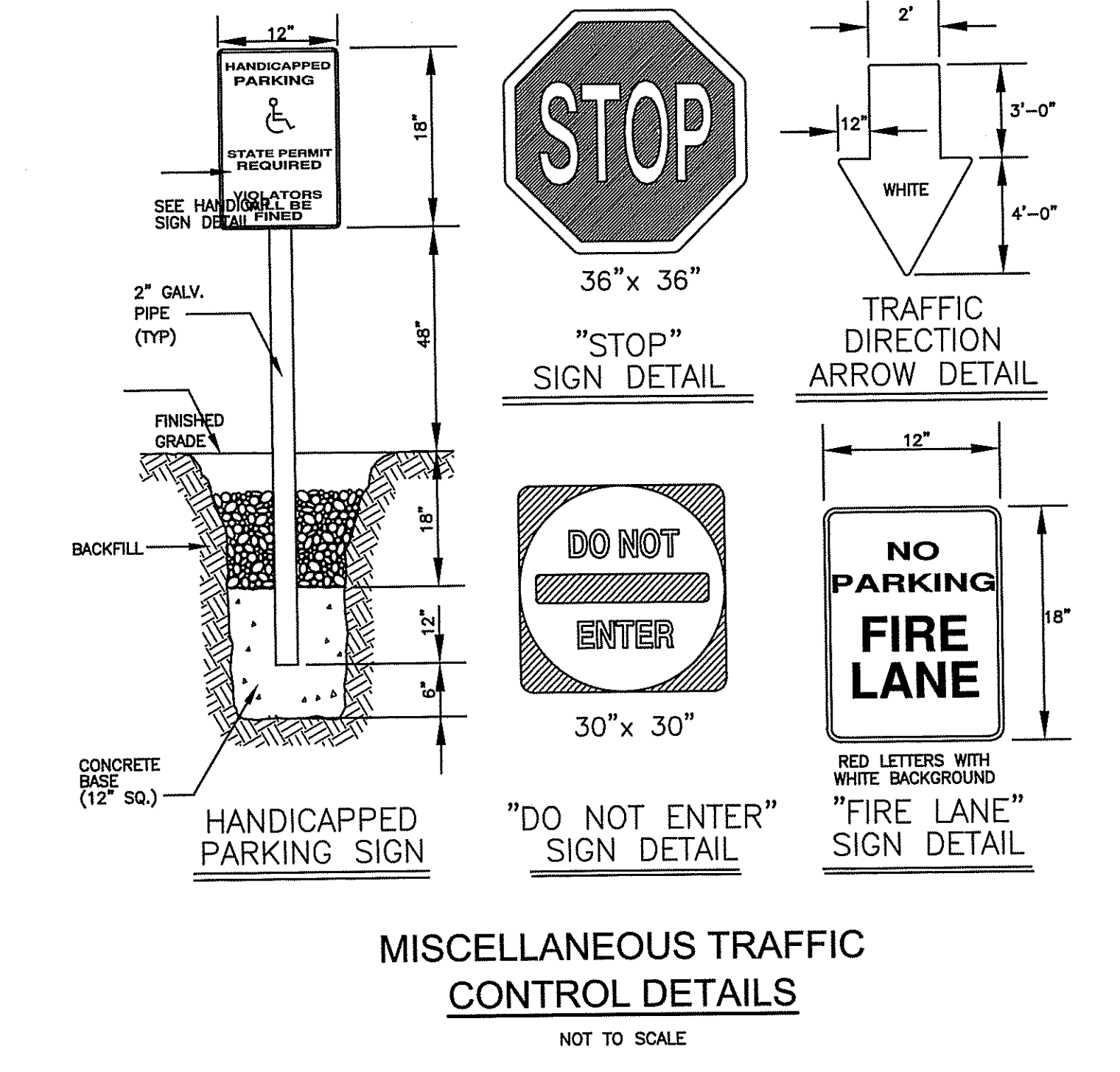
JUNE 15, 1998
R.I. STANDARD 4.3.1.0



- NOTES:
- THE SOIL MUST HAVE A MOISTURE CONTENT DRY OF OPTIMUM AS DETERMINED MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D1557.
 - THE SOIL CAN BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D998
 - THE SOIL SHALL NOT BE USED IF THE MATERIAL CONTAINS ORGANIC MATTER, RUBBLE, DEBRIS OR ANY OTHER DELETERIOUS MATERIAL.
 - SUBMIT MIX DESIGN TO THE CIVIL ENGINEER OF RECORD AT LEAST 30 DAYS PRIOR TO BEGINNING ASPHALT PAVING OPERATIONS. MIX DESIGNS OVER ONE YEAR OLD WILL NOT BE ACCEPTED. MIX DESIGNS SUBMITTAL SHALL FOLLOW THE LATEST EDITION OF THE RIOT STANDARD SPECIFICATIONS.
 - PAVEMENT SHALL BE INSTALLED AS REQUIRED IN THE GEOTECHNICAL REPORT BY GEISSER ENGINEERING CORPORATION, JUNE 17, 2014.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT SECTION (BCP)

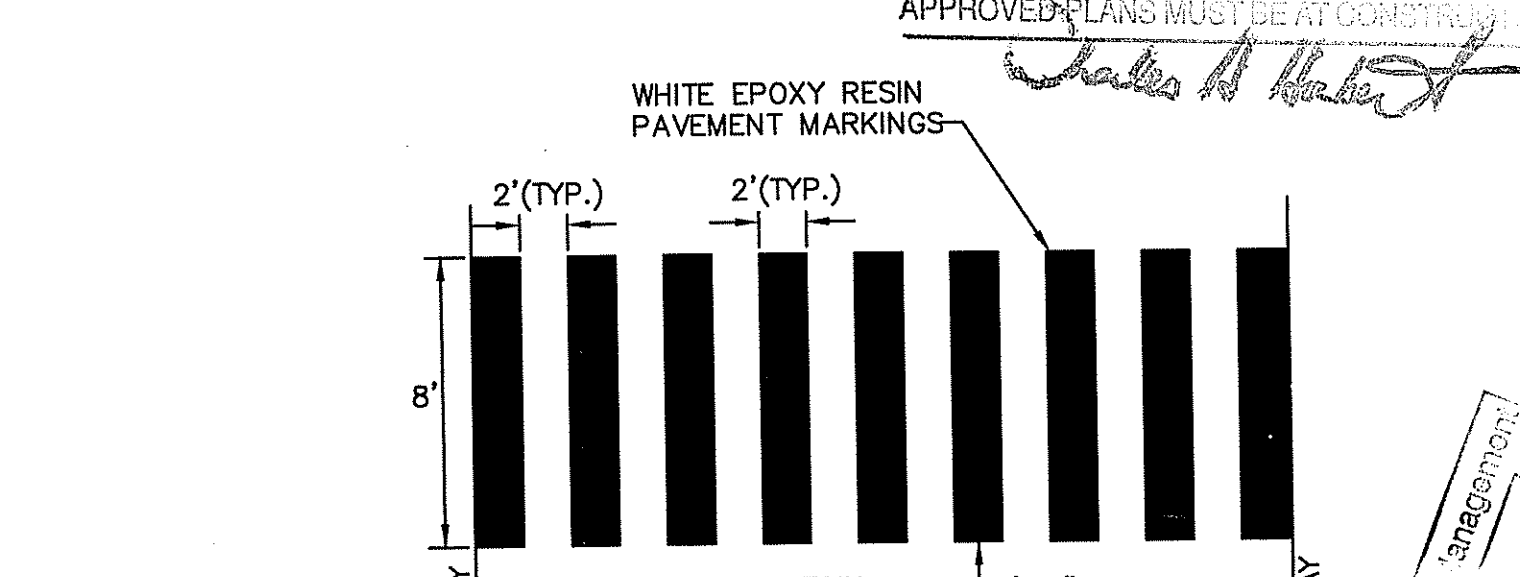
N.T.S.



- NOTES:
- THE SOIL MUST HAVE A MOISTURE CONTENT DRY OF OPTIMUM AS DETERMINED MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D1557.
 - THE SOIL CAN BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D998
 - THE SOIL SHALL NOT BE USED IF THE MATERIAL CONTAINS ORGANIC MATTER, RUBBLE, DEBRIS OR ANY OTHER DELETERIOUS MATERIAL.
 - SUBMIT MIX DESIGN TO THE CIVIL ENGINEER OF RECORD AT LEAST 30 DAYS PRIOR TO BEGINNING ASPHALT PAVING OPERATIONS. MIX DESIGNS OVER ONE YEAR OLD WILL NOT BE ACCEPTED. MIX DESIGNS SUBMITTAL SHALL FOLLOW THE LATEST EDITION OF THE RIOT STANDARD SPECIFICATIONS.
 - PAVEMENT SHALL BE INSTALLED AS REQUIRED IN THE GEOTECHNICAL REPORT BY GEISSER ENGINEERING CORPORATION, JUNE 17, 2014.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT SECTION

N.T.S.



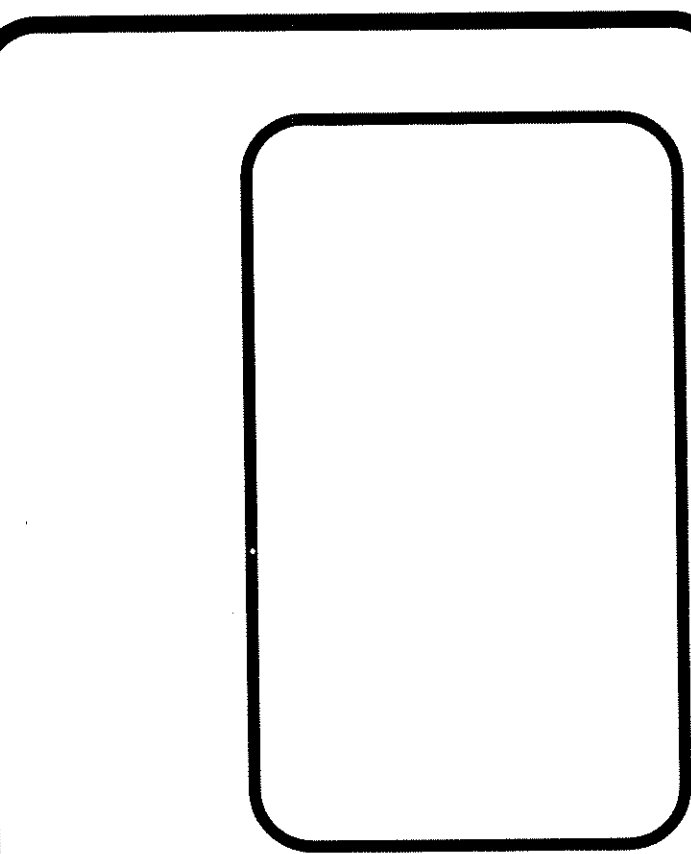
- NOTES:
- THE SOIL MUST HAVE A MOISTURE CONTENT DRY OF OPTIMUM AS DETERMINED MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D1557.
 - THE SOIL CAN BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D998
 - THE SOIL SHALL NOT BE USED IF THE MATERIAL CONTAINS ORGANIC MATTER, RUBBLE, DEBRIS OR ANY OTHER DELETERIOUS MATERIAL.
 - SUBMIT MIX DESIGN TO THE CIVIL ENGINEER OF RECORD AT LEAST 30 DAYS PRIOR TO BEGINNING ASPHALT PAVING OPERATIONS. MIX DESIGNS OVER ONE YEAR OLD WILL NOT BE ACCEPTED. MIX DESIGNS SUBMITTAL SHALL FOLLOW THE LATEST EDITION OF THE RIOT STANDARD SPECIFICATIONS.
 - PAVEMENT SHALL BE INSTALLED AS REQUIRED IN THE GEOTECHNICAL REPORT BY GEISSER ENGINEERING CORPORATION, JUNE 17, 2014.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CROSSWALK AND STOP BAR DETAIL

N.T.S.

CONSTRUCTION DETAILS - 1
PRELIMINARY PLAN SUBMISSION
HUNDRED ACRE COVE ESTATES
MAP 811, BLOCK 1, PARCEL 3
ZONING DISTRICT O-1 AND C-1
SITUATED ON:
WAMPANOAG TRAIL
EAST PROVIDENCE, RHODE ISLAND
APPLICANT/OWNER:
U.S. DEVELOPMENT, II, LLC
1414 ATWOOD AVE. JOHNSTON, RI 02919

NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	NJM	10/18/18



GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

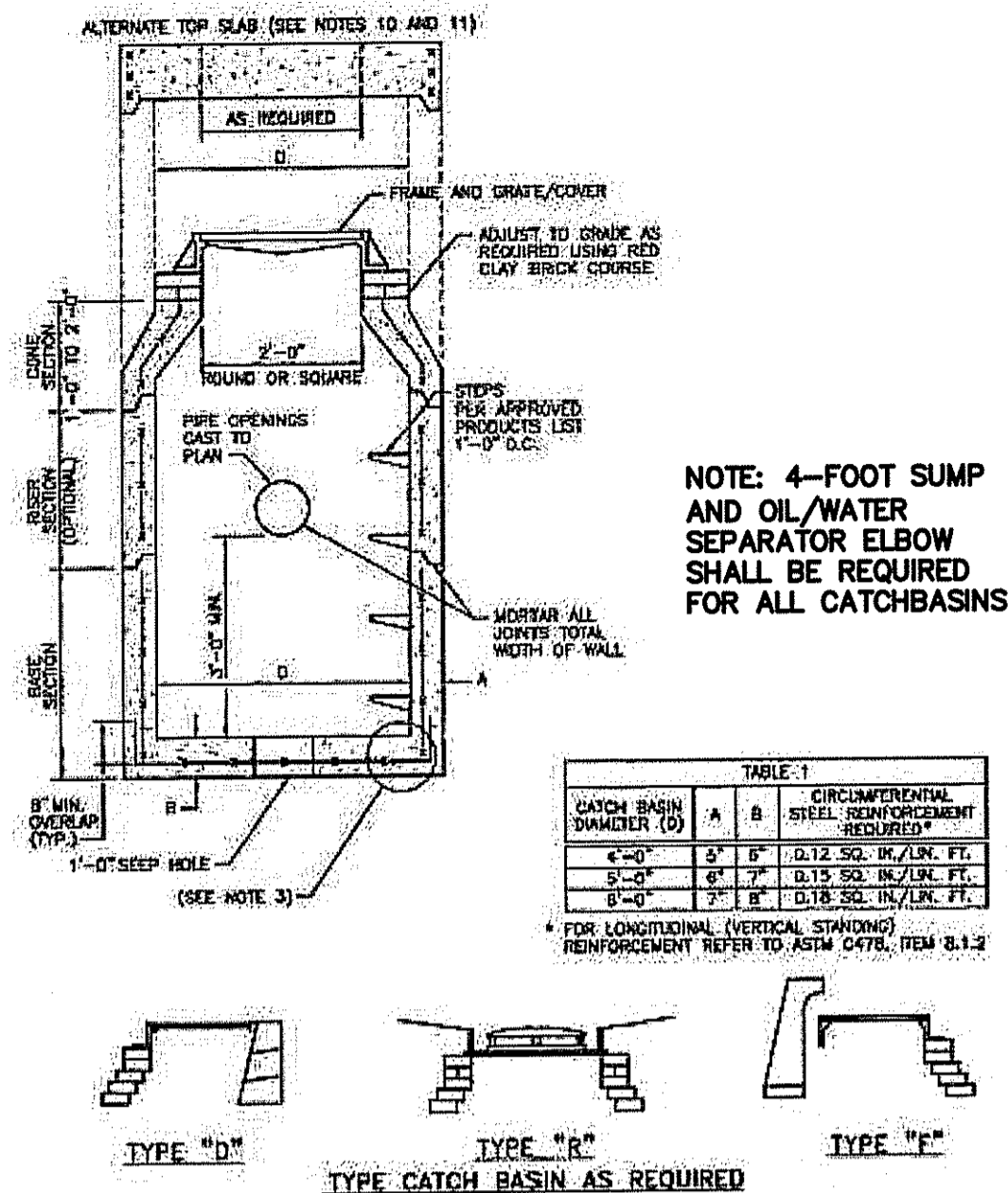
85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL: 401-275-6000

18-0159
DATED DEC 4, 2018
NO CHANGES ALLOWED WITHOUT APPROVED PLANS MUST BE AT CONSTRUCTION

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
C-11
OF 15 SHEETS

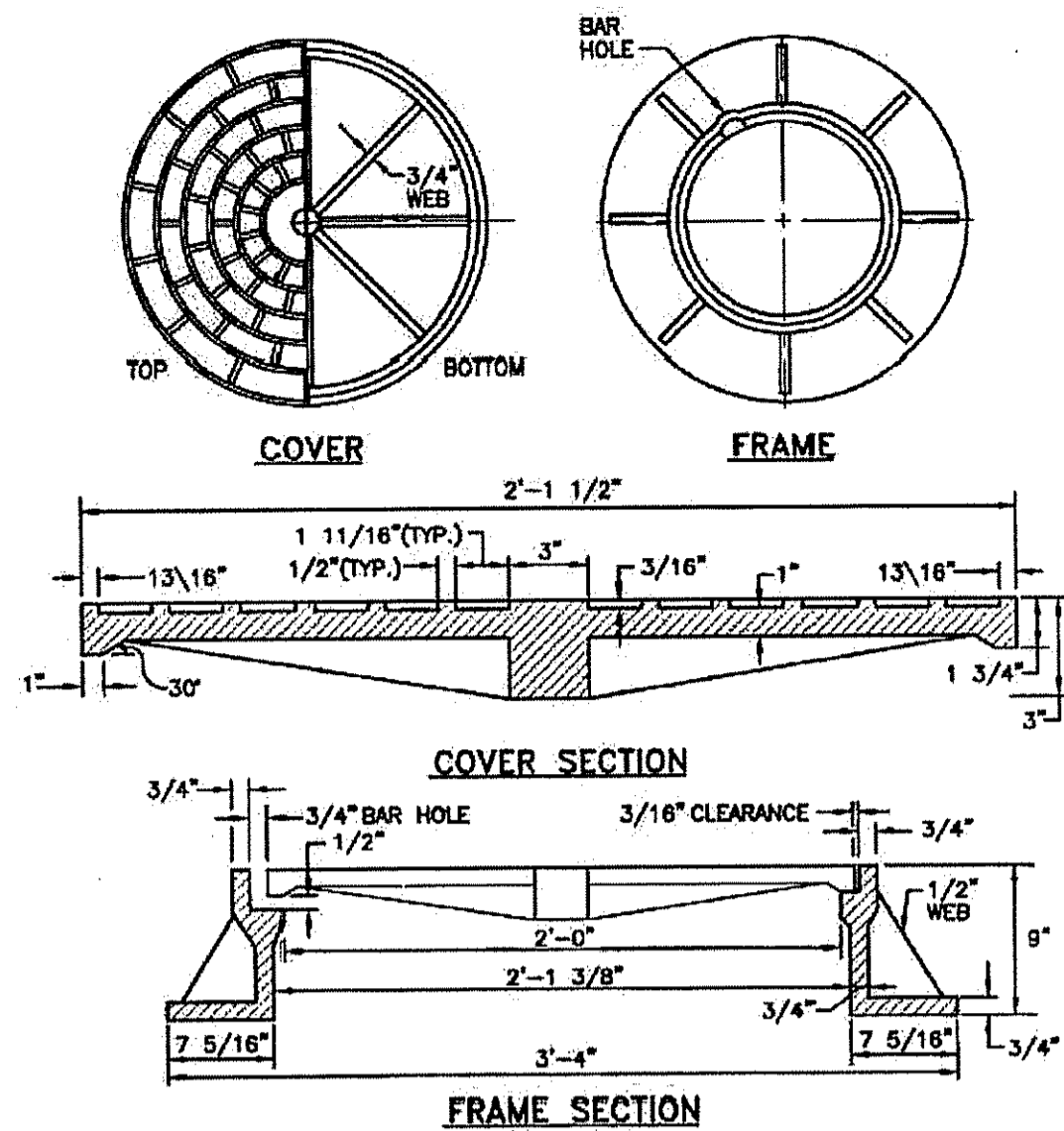
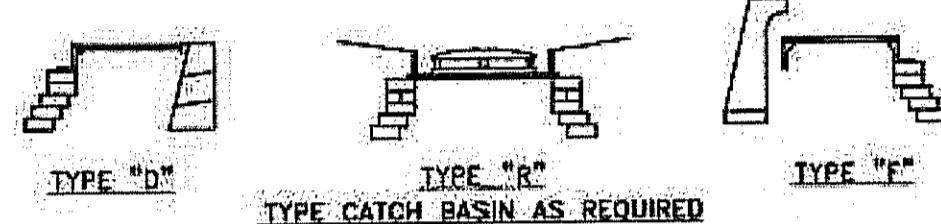
OWNER/APPLICANT:
U.S. DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, RI 02919



NOTE: 4-FOOT SUMP AND OIL/WATER SEPARATOR ELBOW SHALL BE REQUIRED FOR ALL CATCHBASINS.

NO.	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
1	4'-0"	4'-0"	0.12 SQ. IN./LIN. FT.
2	5'-0"	5'-0"	0.15 SQ. IN./LIN. FT.
3	6'-0"	6'-0"	0.18 SQ. IN./LIN. FT.

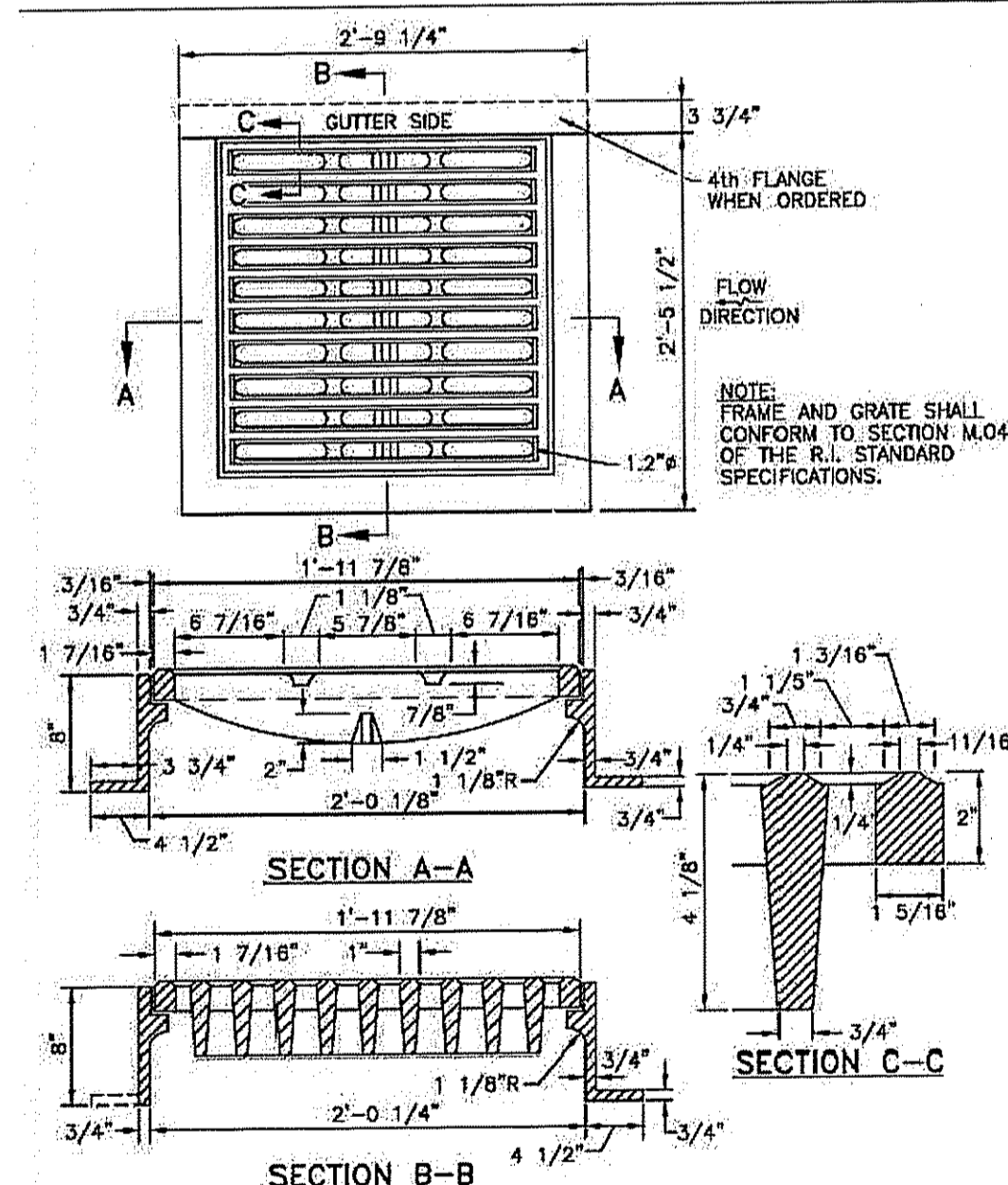
* FOR LONGITUDINAL (VERTICAL STAINING) REINFORCEMENT REFER TO ASTM C478, FROM 8.1.2



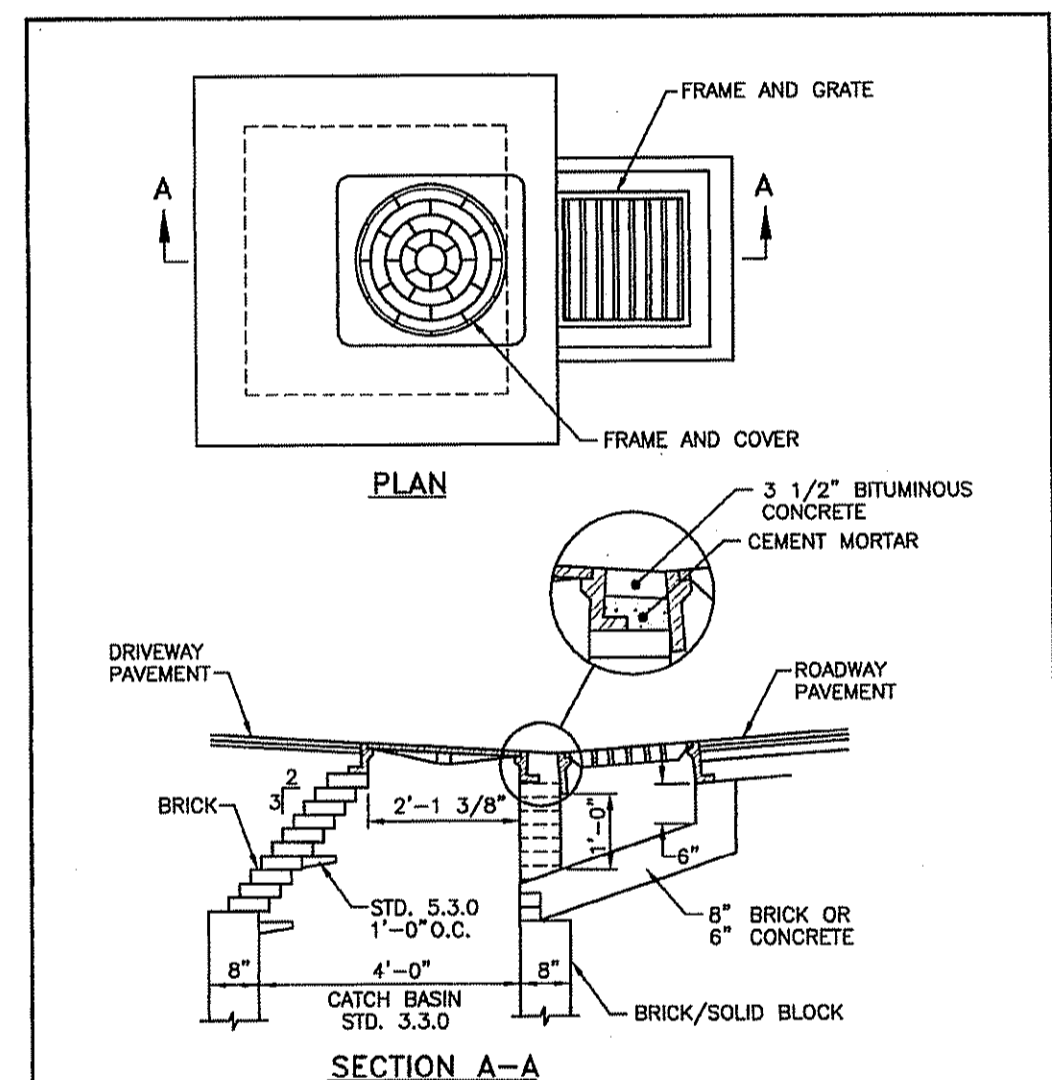
NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
HEAVY-DUTY ROUND FRAME AND COVER			
NO.	BY	DATE	R.I. STANDARD
1	J. G. G.	JUNE 15, 1998	6.2.1

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN			
NO.	BY	DATE	R.I. STANDARD
1	J. G. G.	JUNE 15, 1998	4.4.0

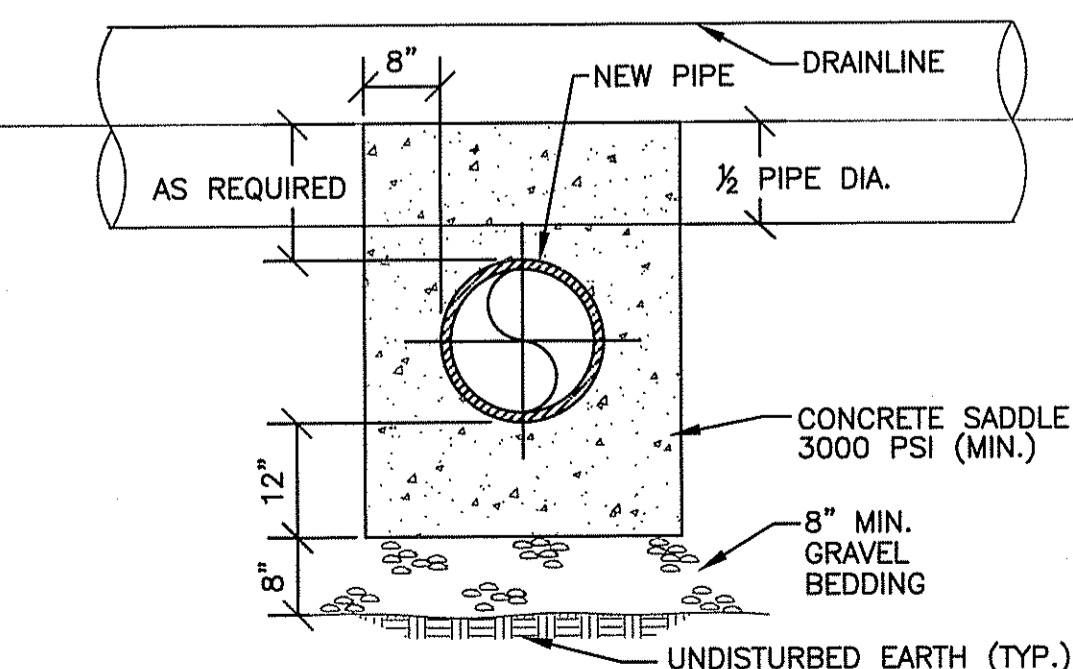


RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
SQUARE FRAME AND GRATE (BICYCLE SAFE)			
NO.	BY	DATE	R.I. STANDARD
1	J. G. G.	JUNE 15, 1998	6.3.2



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. 1/2\"/>

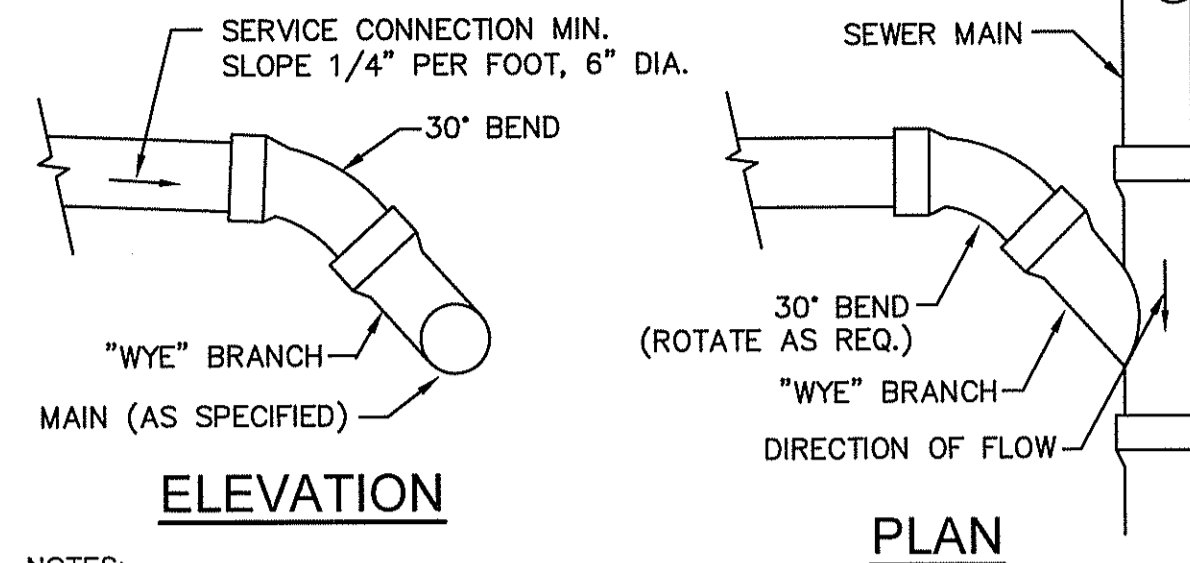
RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
BRICK/SOLID BLOCK DRIVEWAY BASIN AND GUTTER INLET			
NO.	BY	DATE	R.I. STANDARD
1	J. G. G.	JUNE 15, 1998	3.3.1



NOTE: ENCASEMENT TO EXTEND 2' EITHER SIDE OF CROSSING

CONCRETE SADDLE

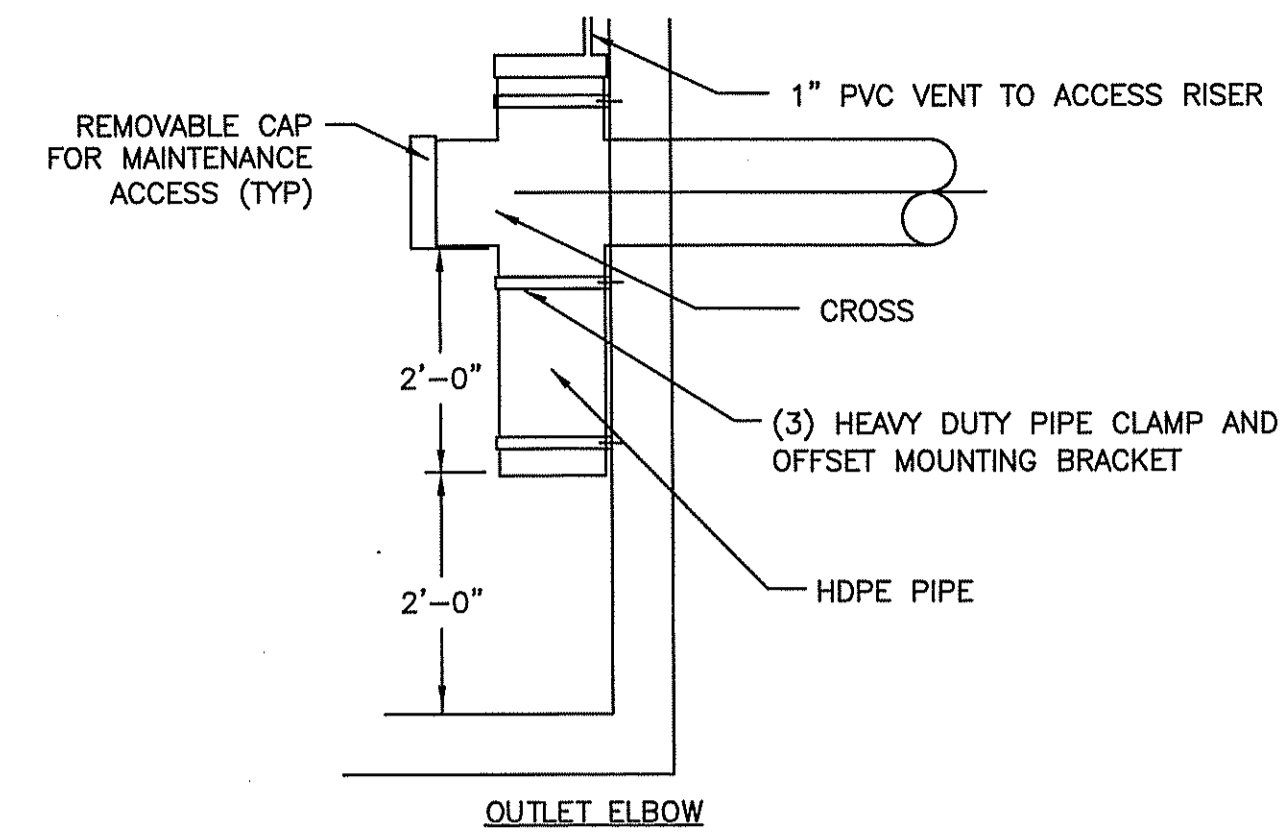
NOT TO SCALE



NOTES:
1. PIPE AND FITTING MATERIALS TO BE PVC SDR35, MEETING ASTM 3034 FOR USE WITH SANITARY SEWER SYSTEMS.
2. REFER TO "TRENCH SECTION (SEWER)" FOR TRENCHING REQUIREMENTS.

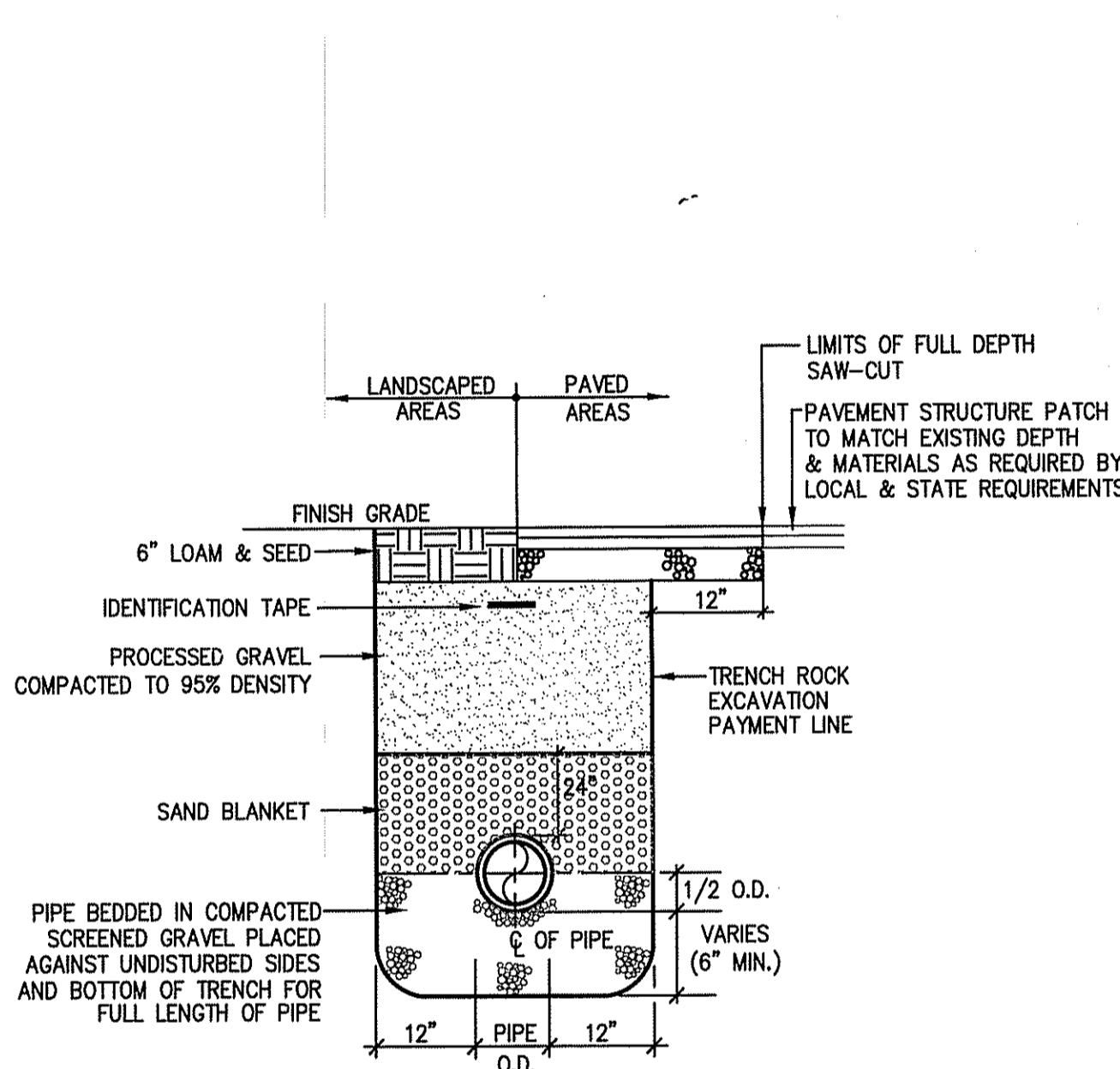
SEWER SERVICE CONNECTION DETAIL

NOT TO SCALE



OIL/WATER SEPARATOR ELBOW

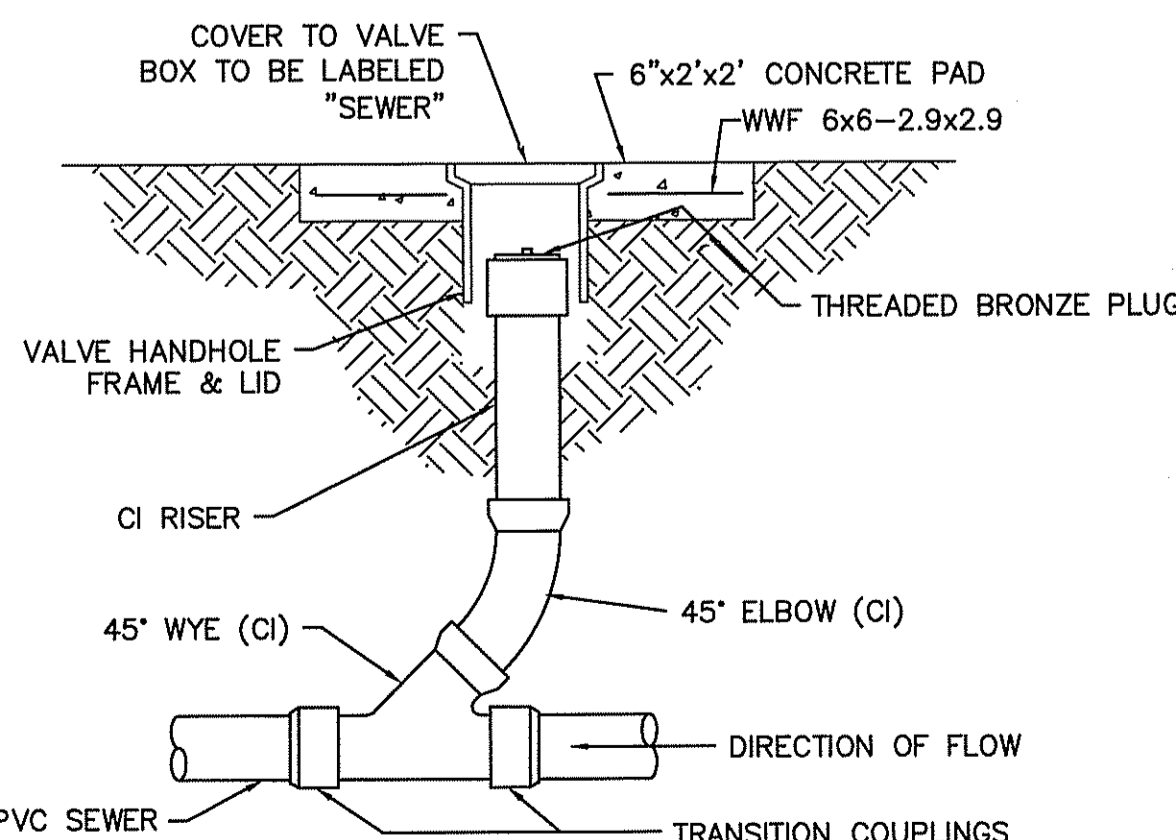
NOT TO SCALE



NOTES:
1. METALIZED 2\"/>

TRENCH SECTION (SEWER)

NOT TO SCALE



CLEANOUT DETAIL

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WATERSHED DIVISION
APPROVED WITH THE FOLLOWING CONDITIONS:
AS SPECIFIED BY THE LETTER OF APPROVAL
DATED DEC 4, 2018 FILE # 18-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hester

OWNER/APPLICANT:
U.S. DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, RI 02919

CONSTRUCTION DETAILS - 2
PRELIMINARY PLAN SUBMISSION
HUNDRED ACRE COVE ESTATES
MAP 811, BLOCK 1, PARCEL 3
ZONING DISTRICT O-1 AND C-1
SITUATED ON:
WAMPANOAG TRAIL
EAST PROVIDENCE, RHODE ISLAND
APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
1414 ATWOOD AVE, JOHNSTON, RI 02919

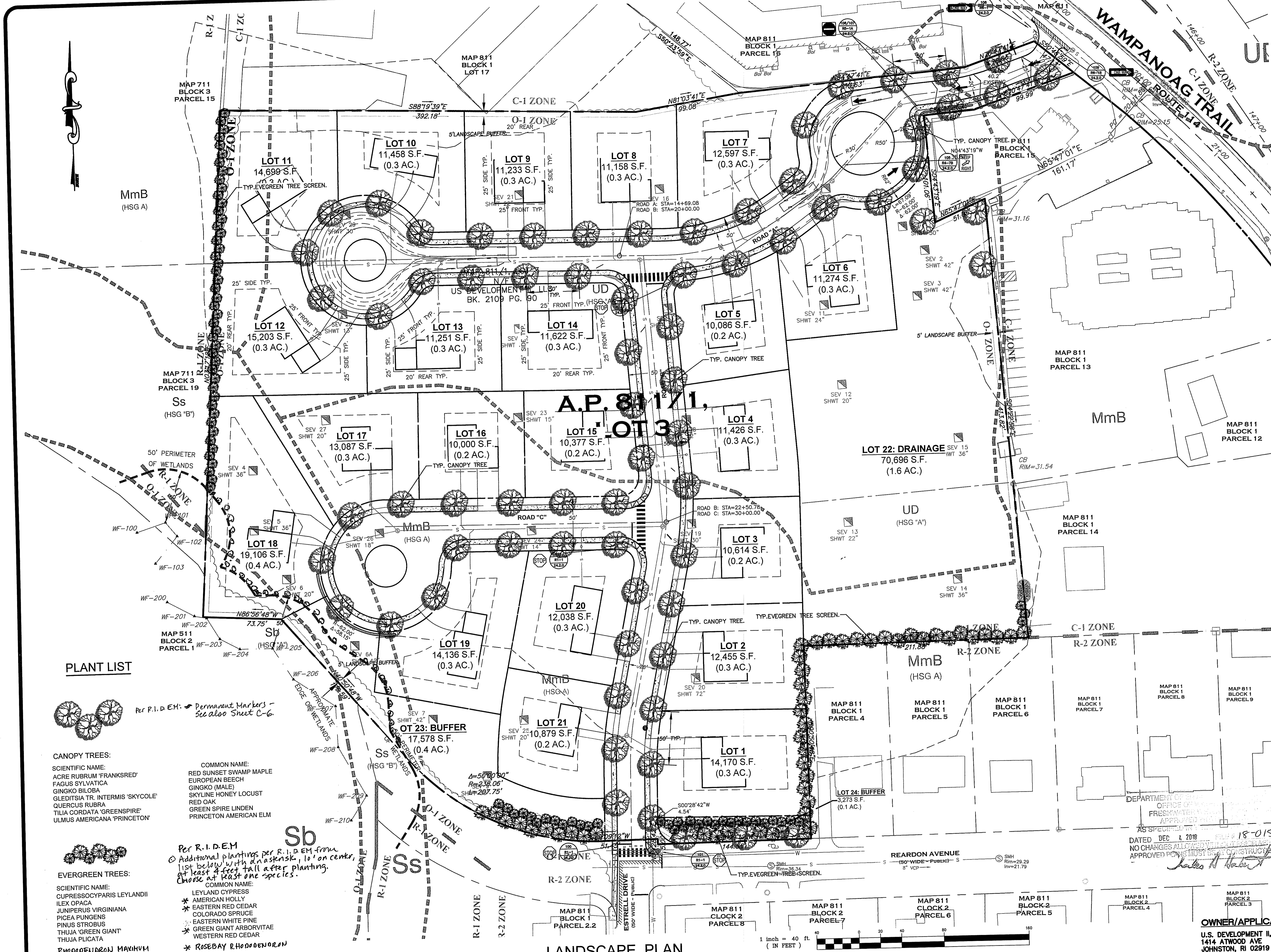
NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	N.M.	10/18/18

Environmental Management
OCT 23 2018
Office of Water Resources

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
Garofalo & Associates ©
These drawings are the property of Garofalo & Associates, Inc. and shall remain the property of the owner for this project at this site and is not to be used for any other project without the consent of this owner or one of its directors.
85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL: 401-273-6000

JOB NO. 6869-01	DRAWN BY K.Y.Y.
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B.
SCALE: AS SHOWN	APPROVED S.B.G.
DATE: MAY, 2018	

SHEET
C-12
OF 15 SHEETS



PLANT LIST

- Per R.I.D.E.H. Permanent Markers - see also Sheet C-6.
- CANOPY TREES:**
- | | |
|----------------------------------|------------------------|
| SCIENTIFIC NAME: | COMMON NAME: |
| ACRE RUBRUM 'FRANKSRED' | RED SUNSET SWAMP MAPLE |
| FAGUS SYLVATICA | EUROPEAN BEECH |
| GINGKO BILOBA | GINGKO (MALE) |
| GLEDITSIA TR. INTERMIS 'SKYCOLE' | SKYLINE HONEY LOCUST |
| QUERCUS RUBRA | RED OAK |
| TILIA CORDATA 'GREENSPIRE' | GREEN SPIRE LINDEN |
| ULMUS AMERICANA 'PRINCETON' | PRINCETON AMERICAN ELM |
- EVERGREEN TREES:**
- | | |
|---------------------------|------------------------|
| SCIENTIFIC NAME: | COMMON NAME: |
| CUPRESSOCYPARIS LEYLANDII | LEYLAND CYPRESS |
| ILEX OPACA | AMERICAN HOLLY |
| JUNIPERUS VIRGINIANA | EASTERN RED CEDAR |
| PICEA PUNGENS | COLORADO SPRUCE |
| PINUS STROBUS | EASTERN WHITE PINE |
| THUJA 'GREEN GIANT' | GREEN GIANT ARBORVITAE |
| THUJA PLICATA | WESTERN RED CEDAR |
| 240005NDRON MAXIMUM | ROSEBAY RHODODENDRON |
- Per R.I.D.E.H. Additional plantings per R.I.D.E.H. form to be located with an asterisk, 10' on center, at least 4 feet tall after planting. Choose at least one species.

LANDSCAPE PLAN
SCALE 1" = 40'

LANDSCAPE PLAN
PRELIMINARY PLAN SUBMISSION
HUNDRED ACRE COVE ESTATES
MAP 811, BLOCK 1, PARCEL 3
ZONING DISTRICT O-1 AND C-1
SITUATED ON:
WAMPANOAG TRAIL
EAST PROVIDENCE, RHODE ISLAND
APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
1414 ATWOOD AVE, JOHNSTON, RI 02919

NO.	REVISION	BY	DATE
1	MODIFICATIONS PER COMMENTS	N.M.	10/18/18

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
P.O. BOX 8145
PROVIDENCE, RI 02940
TEL. 401-273-6000

These drawings are the property of Garofalo & Associates, Inc. and are to be used only for the project and location specified on the title block. No other use, reproduction, or alteration without written consent of Garofalo & Associates, Inc. is permitted.

02940
10/18/18

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
L-1
OF 15 SHEETS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF FRESHWATER RESOURCES
APPROVED
DATED DEC 2, 2018
NO CHANGES ALLOWED AFTER THIS DATE
APPROVED PERMITS MUST BE OBTAINED BEFORE CONSTRUCTION SITE

18-0159
Charles A. Harker

OWNER/APPLICANT:
U.S. DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, RI 02919

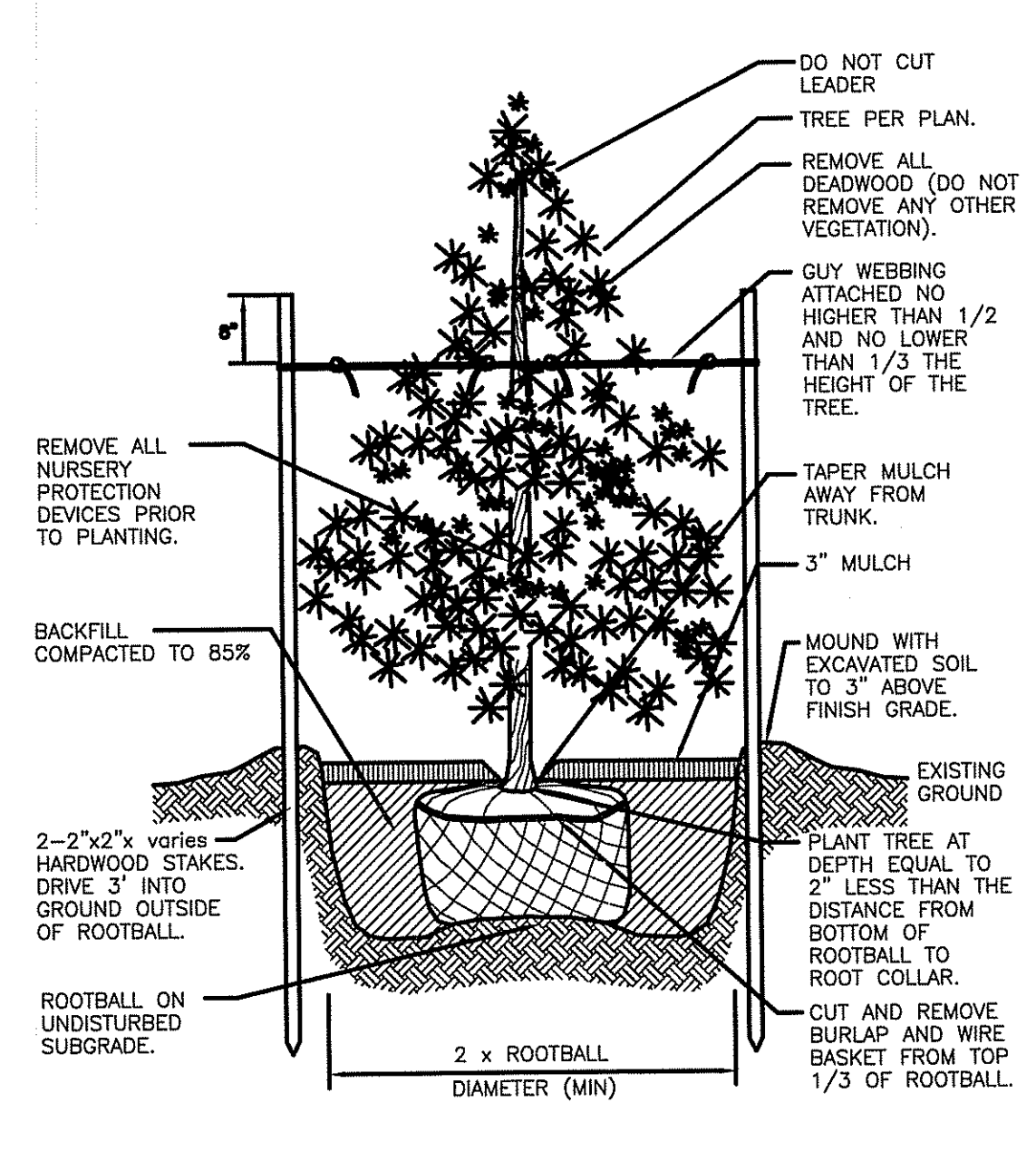
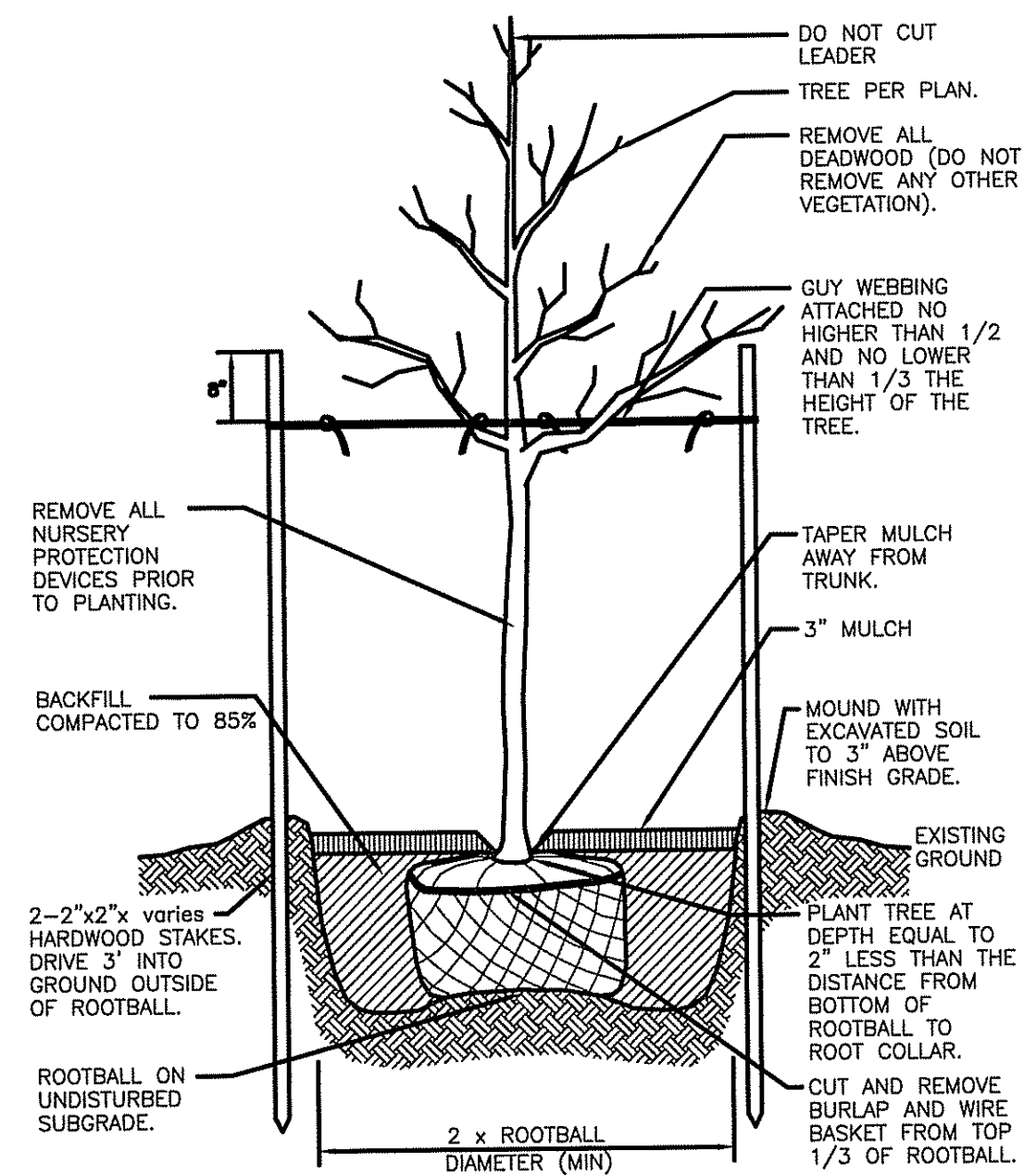
GENERAL LANDSCAPE NOTES

- THE CONTRACTOR SHALL INSTALL ALL PLANT MATERIAL IN CONFORMANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- ALL PLANT MATERIAL SHALL MEET THE AMERICAN OF NURSERYMEN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AND ITS AMENDMENTS. PLANT ONLY DURING SEASONS NORMAL TO THE PARTICULAR VARIETY. NO SUBSTITUTIONS SHALL BE ACCEPTED WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR. IF THE FIRST YEAR ENDS DURING THE DORMANT PERIOD, THE GUARANTEE SHALL EXTEND TO THE START OF THE NEXT LEAFING. DURING THE ONE-YEAR GUARANTEE PERIOD THE CONTRACTOR SHALL EMPLOY ACCEPTED HORTICULTURAL PRACTICES TO KEEP THE PLANTS INSTALLED IN LIVING, HEALTHY CONDITION. FOLLOWING THE ONE-YEAR GUARANTEE PERIOD THE OWNER/OWNERS SHALL INSPECT ALL PLANT MATERIAL FOR HEALTHY ORNAMENTAL QUALITY. AT THAT TIME SHOULD ANY PLANT MATERIAL BE FOUND IN INADEQUATE HEALTH THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE THE PLANT IN KIND AND PROVIDE A ONE-YEAR GUARANTEE FOR THE REPLACEMENT PLANT.
- INSTALL ALL PLANT MATERIAL AS SHOWN IN DETAILS.
- STAKE ALL TREES OVER 5' AS SHOWN ON DETAILS. REMOVE STAKES AT THE END OF THE GUARANTEE PERIOD.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE SITE CLEAN OF MISCELLANEOUS DEBRIS THROUGHOUT THE CONSTRUCTION PERIOD. ALL WASTE MATERIAL IS TO BE DISPOSED OF IMMEDIATELY TO AN OFFSET LOCATION, UNLESS OTHERWISE INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, AND SHALL OBTAIN ALL NECESSARY PERMITS FOR THE PROJECT.
- LAYOUT: ALL NOTES AND DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE SQUARE (PARALLEL OR PERPENDICULAR) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S REPRESENTATIVE IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE CONTRACT DOCUMENTS AND/OR IN THE FIELD, OR ON CONDITIONS UNCOVERED IN THE WORK WHICH ARE NOT REFLECTED IN THE PLANS.
- PROTECTION OF EXISTING PLANTINGS: MAXIMUM EFFORT SHOULD BE MADE TO SAVE TREES OF OTHER PLANT SPECIMENS WHICH ARE LARGE FOR THEIR SPECIES, RARE TO THE AREA, OR OF SPECIAL HORTICULTURAL OR LANDSCAPE VALUE. CONTACT OWNER/LANDSCAPE ARCHITECT BEFORE REMOVING ANY SPECIMEN OF THIS TYPE UNLESS OTHERWISE NOTED ON THE PLANS. NO MATERIAL OR TEMPORARY SOIL DEPOSITS SHALL BE PLACED WITHIN THE DRIP LINE OF SHRUBS OR TREES DESIGNATED ON THE LANDSCAPE PLAN TO BE RETAINED. PROTECTIVE BARRIERS ARE TO BE INSTALLED AROUND EACH PLANT AND/OR GROUP OF PLANTS THAT ARE TO REMAIN ON THE SITE. BARRIERS SHALL NOT BE SUPPORTED BY THE PLANTS THEY ARE PROTECTING, BUT SHALL BE SELF SUPPORTING. THEY SHALL BE OF MINIMUM OF FOUR FEET (4') HIGH AND CONSTRUCTED OF A DURABLE MATERIAL, SUCH AS SNOW OR SILT FENCE, THAT WILL LAST UNTIL CONSTRUCTION IS COMPLETED.
- PRUNING: THE CONTRACTOR SHALL CAREFULLY PRUNE BRANCHES IN THE WAY OF CONSTRUCTION BY USING ONLY APPROVED METHODS AND TOOLS. THE USE OF AXES FOR TRIMMING OR SPURS FOR CLIMBING WILL NOT BE PERMITTED.
- UTILITIES: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL UTILITY DAMAGE INCLUDING DAMAGE THAT MAY OCCUR TO NEW UTILITIES. THE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE PRIOR TO COMMENCING ANY SITE CONSTRUCTION. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- DISTURBED AREAS: ALL AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL (OR BETTER) CONDITION BY THE CONTRACTOR BEFORE COMPLETION OF THE PROJECT, AND ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINE RAKED TO REMOVE STONES AND LOAMED AND SEEDED AS PER SPECIFICATIONS.
- DRAINAGE SYSTEMS: CONTRACTOR IS RESPONSIBLE FOR GENERAL CLEAN-OUT OF ALL CATCH BASINS, MANHOLES, AND/OR OTHER DRAINAGE FEATURES ON THE SITE WHICH HAVE ACCUMULATED SEDIMENT AS A RESULT OF CONSTRUCTION ACTIVITIES.

LOAM AND SEEDING

APPLICATION OF LOAM AND SEED SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

- LOAM MATERIAL TO BE FURNISHED SHALL CONSIST OF SCREENED LOOSE, FRIABLE, FINE SANDY LOAM OR SANDY LOAM, AS DEFINED BY THE USDA'S SOIL CONSERVATION SERVICE IN THE SOIL SURVEY MANUAL ISSUED IN 1993, FREE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, COBBLES, STONES, BRUSH, NOXIOUS WEEDS, LITTER AND OTHER MATERIALS WHICH ARE LARGER THAN 1/2-INCH IN ANY DIMENSION AND WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED. ORGANIC MATTER SHALL CONSTITUTE NOT LESS THAN 5 PERCENT NOR MORE THAN 20 PERCENT OF THE LOAM AS DETERMINED BY LOSS-ON-IGNITION OF OVEN DRIED SAMPLES THAT HAVE BEEN DRAWN BY THE ENGINEER, UNLESS OTHERWISE SPECIFIED OR DIRECTED. THE LOAM SHALL HAVE AN ACIDITY RANGE OF 5.5 PH TO 7.6 PH.
- LOAM MOVED DURING THE COURSE OF CONSTRUCTION SHALL BE RETAINED AND DISTRIBUTED WITHIN THE SITE IN ACCORDANCE WITH THE LANDSCAPE PLAN. STOCKPILED LOAM SHALL NOT BE MIXED WITH ANY SUBSOIL OR UNSUITABLE MATERIAL. ALL EXISTING LOAM REMAINS THE PROPERTY OF THE OWNER.
- LOAM SHALL BE SPREAD TO A DEPTH OF 4" IN SEEDING AREAS AND PLACED TRUE TO LINES AND GRADES SHOWN ON THE PLANS.
- THE LOAMED SURFACE SHALL BE GRADED, AND ALL ROOTS, SODS, WEEDS, COBBLES OR STONES WITH ANY DIMENSION GREATER THAN 1 INCH SHALL BE REMOVED AND LEGALLY DISPOSED OF. AFTER SHAPING AND GRADING, ALL TRUCKS AND OTHER EQUIPMENT NOT REQUIRED TO PERFORM SEEDING, MULCHING OR MOWING OPERATIONS SHALL BE EXCLUDED FROM THE LOAMED AREAS.
- LIME (GROUND OR PELLETED) SHALL BE APPLIED DRY AND SPREAD EVENLY OVER THE ENTIRE SURFACE TO BE SEEDDED. UNLESS OTHERWISE SPECIFIED, THE APPLICATION RATE SHALL BE 1 TON PER ACRE. RAKING SHALL BE COMPLETED AFTER THE FERTILIZER HAS BEEN APPLIED.
- ALL SEED DELIVERED TO THE JOB SHALL BE IN CONTAINERS LABELED IN ACCORDANCE WITH PROVISIONS OF THE RHODE ISLAND SEED ACT OF 1956 (VOLUME 8, TITLE 2, CHAPTER 6) AND ITS AMENDMENTS AS PROVIDED FOR AGRICULTURAL SEED OFFERED FOR SALE. ONLY THE CURRENT YEARS SEED SHALL BE ACCEPTED.
- SEED SHALL BE APPLIED ONLY DURING THE FOLLOWING DATES:
SPRING SEEDING: MARCH 15 TO MAY 31.
FALL SEEDING: AUGUST 15 TO OCTOBER 15.
- THE CONTRACTOR SHALL WATER ALL SEEDED AREAS AND RESEED AS NECESSARY FOR A PERIOD OF 2-MONTHS OR UNTIL A HEALTH STAND OF GRASS IS ESTABLISHED AND APPROVAL HAS BEEN MADE BY THE OWNER/LANDSCAPE ARCHITECT.



Canopy Tree Planting Detail
NOT TO SCALE

Evergreen Tree Planting Detail
NOT TO SCALE

PLANT LIST

CANOPY TREES				
KEY	BOTANICAL NAME COMMON NAME	QTY.	SIZE	NOTE
AR	ACER RUBRUM RED SUNSET RED SUNSET MAPLE	14	2'-2" DBH	

FLOWERING TREES				
KEY	BOTANICAL NAME COMMON NAME	QTY.	SIZE	NOTE
AA	AMELANCHIER AUTUMN BRILLIANCE AUTUMN BRILLIANCE SHADBLOW	6	7'-8" DBH	CLUMP
FS	FRUNJUS SERRULATA MOUNT FUJI MT. FUJI JAPANESE FLOWERING CHERRY	9	7'-8" DBH	CLUMP

EVERGREENS				
KEY	BOTANICAL NAME COMMON NAME	QTY.	SIZE	NOTE
JS	JUNIPERUS SCOPULORUM 'MOONGLOW' MOONGLOW JUNIPER	14	7'-8" DBH	
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	16	6'-7" DBH	
TO	THUJA OCCIDENTALIS AMERICAN ARBOVITAE	15	5'-6" DBH	
TOT	THUJA OCCIDENTALIS 'TECHNY' TECHNY AMERICAN ARBOVITAE	21	5'-6" DBH	

GENERAL SEEDING MIX (L&S)

	PERCENT BY WEIGHT	PERCENT BY VOLUME
CHEWINGS FESCUE IMPROVED VARIETIES	30	85
KENTUCKY BLUEGRASS IMPROVED VARIETIES	30	90
PERENNIAL RYEGRASS IMPROVED VARIETIES	40	90

APPLICATION RATE: 200 LBS / ACRE

FOR PRELIMINARY DESIGN PURPOSES, NOT INTENDED FOR FINAL PLAN INSERTION. CONTACT STORMTREE FOR SITE SPECIFIC DESIGN DETAIL.

NOTES TO DESIGN ENGINEER/SPECIFIER

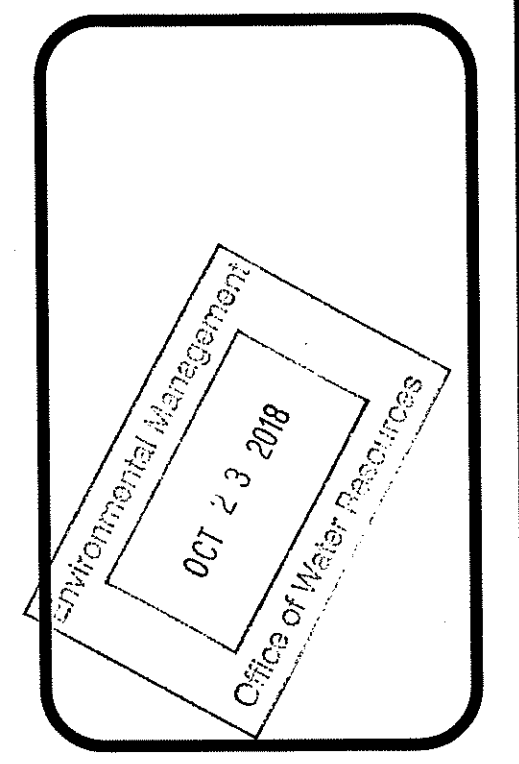
- IT IS RECOMMENDED THAT THE DESIGN ENGINEER COMPLETE THE PRODUCT DESIGN WORKSHEET AND/OR CONTACT STORMTREE DIRECTLY TO DETERMINE PROPER SIZING.
- STORMTREE PROVIDES PRECAST CONCRETE FRAMES WITH INTERNAL PASS THROUGH CAPACITY. ENGINEERED MEDIA AND COMPLIANT FIBERGLASS SUPPORTIVE GRATE WITH MINIMUM 1/2" SLOTTED DRAINAGE HOLES. STORMTREE PROVIDES A CONSTRUCTION PLAN TO THE INSTALLATION CONTRACTOR PRIOR TO PROJECT INITIATION.
- AN IMPERVIOUS LINER MAY BE USED WITH ALL UNITS IF DIRECT INFILTRATION (OR INFILTRATION IS NOT DESIRABLE).
- ENGINEER/SPECIFIER MAY IDENTIFY SPECIFIC PIPING DIMENSIONS ON THIS PLAN PAGE TO FACILITATE SITE CATCHMENT AND DRAINAGE REQUIREMENTS AND CONNECTIONS TO EXISTING FACILITIES. APPROVED DIMENSIONS ARE 4" & 6" OTHER DIMENSIONS MAY BE SPECIFIED BASED ON PROJECT DISCUSSION AND THE APPROVAL OF STORMTREE.
- THE DIMENSIONS OF THE ENGINEERED INFILTRATION MEDIA BED AND INFILTRATION STONE BED MAY MATCH TREE FILTER FRAME DIMENSIONS OR EXTEND OUTWARD BEYOND FOOTPRINT OF FILTER FRAME TO FACILITATE ADDITIONAL INFILTRATION REQUIREMENTS AND/OR SURFACE STORAGE.
- USE OF THIS INFORMATION WITH THE PERMISSION OF STORMTREE. WITH THE UNDERSTANDING THAT NO CHANGES OR ALTERATIONS ARE TO BE MADE TO THE DESIGN, FABRICATION, OR UTILITY OF THIS STORMTREE TREE. FILTER SYSTEM (S) MAY NO. 802885 AND OTHER PATENTS PENDING WITHOUT THE EXPRESSED PERMISSION OF STORMTREE. 401-628-6999. WWW.STORMTREE.COM.

PLEASE CONTACT STORMTREE AT 401-628-6999 FOR ADDITIONAL DESIGN AND SIZING ASSISTANCE.

STORMTREE
INTERIOR SUMP SERIES
W/ INTERNAL BYPASS
MODEL: STSU-10-4

LANDSCAPE DETAIL PLAN
PRELIMINARY PLAN SUBMISSION
HUNDRED ACRE COVE ESTATES
MAP 811, BLOCK 1, PARCEL 3
ZONING DISTRICT O-1 AND C-1
SITUATED ON:
WAMPANOAG TRAIL
EAST PROVIDENCE, RHODE ISLAND
APPLICANT/OWNER:
U S DEVELOPMENT, II, LLC
1414 ATWOOD AVE, JOHNSTON, RI, 02919

NO.	REVISION	BY	DATE



GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

88 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

Garofalo & Associates ©
These drawings are the property of the Engineer/Owner and shall remain the property of the Engineer/Owner. No part of this drawing shall be used for any other purpose, location or project without the written consent of this owner or one of its directors.

DEPARTMENT OF PERMITTING AND CONSTRUCTION
OFFICE OF PERMITTING AND CONSTRUCTION
FRESHWATER PERMITS
APPROVED FOR CONSTRUCTION
AS SPECIFIED IN PERMIT
DATED DEC 1 2018
18-0159
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
James A. Hester

JOB NO. 6869-01	DRAWN BY K.Y.Y
DWG. NO. 6869-PERMITTING.dwg	CHECKED R.J.B
SCALE: AS SHOWN	APPROVED S.B.G
	DATE: MAY, 2018

SHEET
L-2
OWNER/APPLICANT:
U.S. DEVELOPMENT II, LLC
1414 ATWOOD AVE
JOHNSTON, RI 02919
OF 15 SHEETS