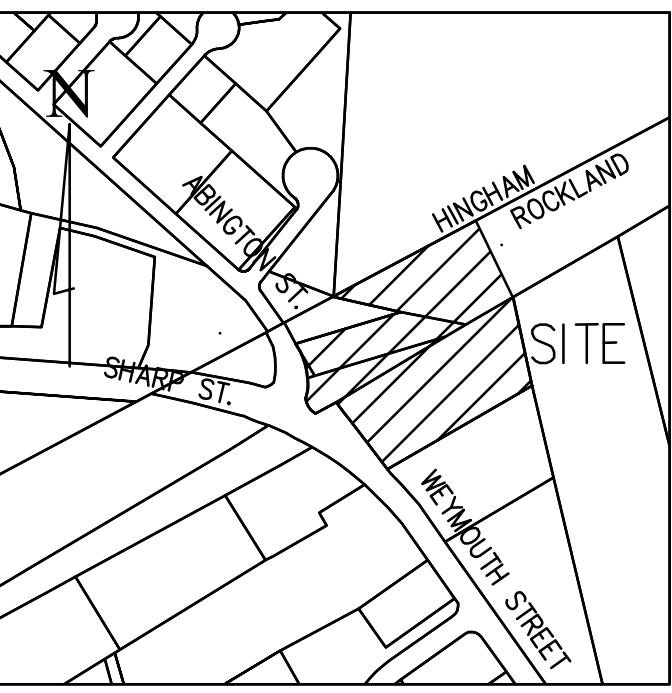




LOCUS MAP
Not to Scale

Drawing Index:

No.	Drawing Title
CS-1	COVER SHEET
L-1	LEGEND, ABBREVIATIONS & GENERAL NOTES
EX-1	EXISTING CONDITIONS PLAN
C-1	SITE LAYOUT PLAN
C-2	GRADING AND UTILITY PLAN
ESC-1	EROSION AND SEDIMENT CONTROL PLAN
LA-1	LANDSCAPING PLAN
T-1	TRUCK TURNING PLAN
D-1 - D-5	CONSTRUCTION DETAILS

Owner:

DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

SOUTH SHORE INDUSTRIAL PARK TR.
20 WINTHROP SQ.
BOSTON, MA 02110

O'KEEFE, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

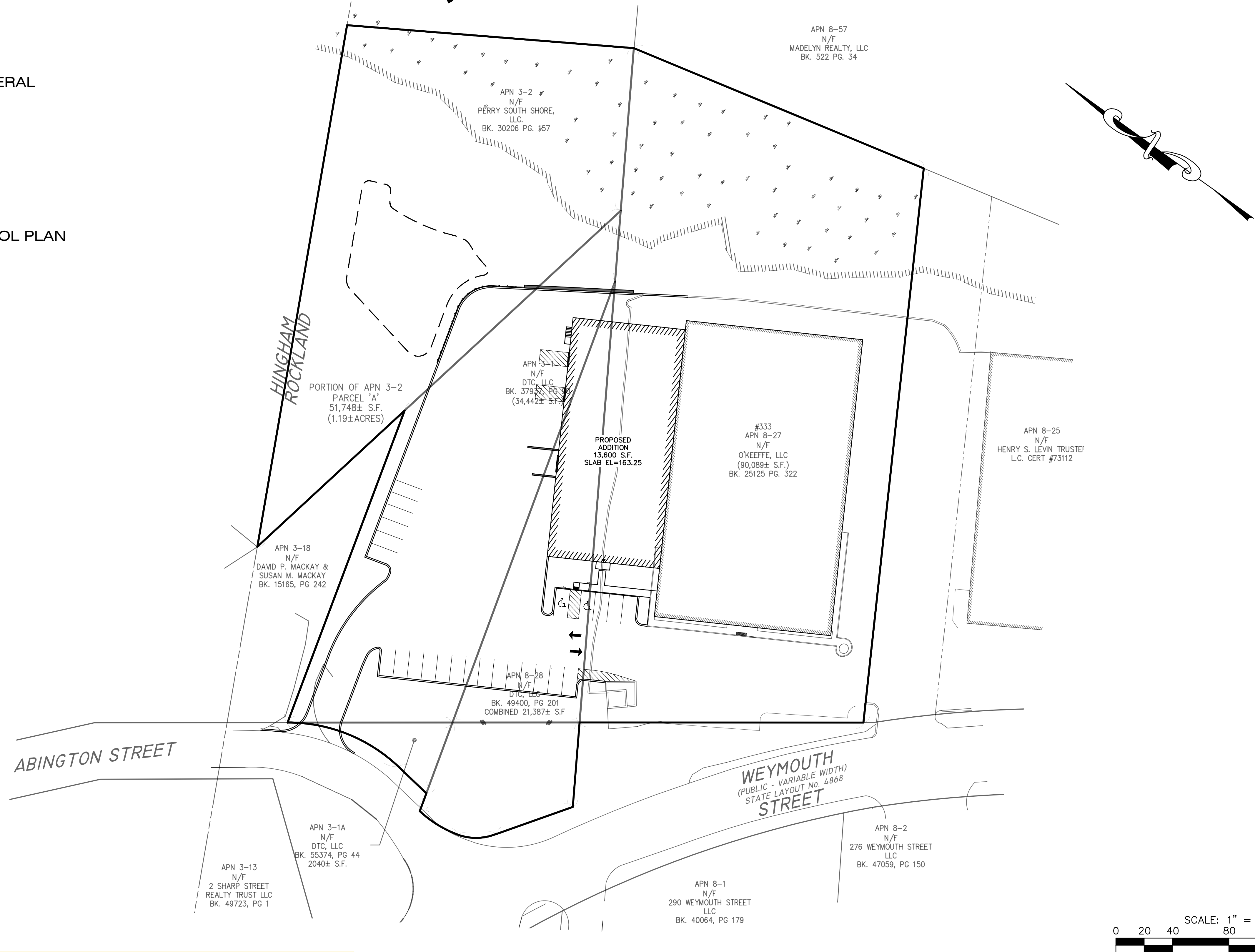
Applicant:

DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

Engineer/Surveyor:

MCKENZIE ENGINEERING GROUP, INC.
150 LONGWATER DRIVE
SUITE 101
NORWELL, MASSACHUSETTS 02061

SITE DEVELOPMENT PLANS PROPOSED BUILDING ADDITION 343 & 333 WEYMOUTH STREET IN ROCKLAND, MASSACHUSETTS



Planning Received 1/30/23@3:21pm

REV	DATE	DESCRIPTION	BY	APP
1	9/19/22	BUILDING ADDITION	ESS	BCM
2	11/30/22	DRAINAGE REVISION	ESS	BCM
3	1/20/23	DRAINAGE REVISION	ESS	BCM



MCKENZIE
ENGINEERING GROUP

Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

SITE DEVELOPMENT PLANS

(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:



APPLICANT:

DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

DRAWN BY:	ESS
DESIGNED BY:	ESS
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 13, 2022
SCALE:	1"=40'
PROJECT NO.:	218-102
DWG. TITLE:	

COVER SHEET

DWG. NO: CS-1

ABBREVIATIONS

ABAN	ABANDONED
ACP	ASBESTOS CEMENT PIPE
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
ASPH	ASPHALT
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE
B	BOLLARD
BD	BOUND
BLDG	BUILDING
BIT CONC	BITUMINOUS CONCRETE
BM	BENCHMARK
BS	BOTTOM OF SLOPE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
C&C	CUT AND CAPPED
CB/DH	CONC. BOUND/DRILL HOLE
CB/EPLP	CB/ESCUTCHEON
CCB	CAPE COD BERM
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
C	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
COND	CONDUIT
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CS	COMBINED SEWER
CSMH	COMBINED SEWER MANHOLE
CULV	CULVERT
Δ	DELTA ANGLE
D	DRAIN
DCB	DOUBLE CATCH BASIN
DIP	DUCTILE IRON PIPE
DMH	DRAIN MANHOLE
E	ELECTRIC
ECC	EXTRUDED CONCRETE CURB
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
E/T/C	ELECTRIC, TELEPHONE, & CABLE TV
EW	END WALL
EXIST	EXISTING
FAB	FIRE ALARM BOX
FES	FLARED END SECTION
FND	FOUND
FND	FOUNDATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
G	GAS
GD	GROUND
GG	GAS GATE
GIP	GALVANIZED IRON PIPE
GP	GUARD POST
GS	GAS SERVICE
GR	GUARD RAIL
GRAN	GRANITE
HDPE	HIGH-DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HOR	HORIZONTAL
HP	HIGH PRESSURE
HWL	HEADWALL
HYD	HYDRANT
INV	INVERT
I.P.	IRON PIN
I.R.	IRON ROD
L	LEAD
LSA	LANDSCAPED AREA
LP	LIGHT POLE
MAX	MAXIMUM
MC	METAL COVER
MCC	MONOLITHIC CONCRETE CURB
MH	MANHOLE
MHB	MASS. HIGHWAY BOUND
MIN	MINIMUM
MLP	METAL LIGHT POLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHW	OVERHEAD WIRE
PB	PULL BOX
PE	POLYETHYLENE PIPE
P	PROPERTY LINE
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
PWMT	PAVEMENT
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SEWER
SB	STONE BOUND
SB/DH	STONE BOUND/DRILL HOLE
SCE	SLOPED GRANITE EDGING
SMH	SEWER MANHOLE
STA	STATION
SS	SEWER SERVICE
STL	STEEL
SW	SIDEWALK
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TL	TRAFFIC LIGHT
TMH	TELEPHONE MANHOLE
Tr	TREE
TRANS	TRANSFORMER
TS	TOP OF SLOPE
TSV	TAPPING SLEEVE, VALVE AND BOX
TYP	TYPICAL
UP	UTILITY POLE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VGC	VERTICAL GRANITE CURB
W	WATER MAIN
WG	WATER GATE

LEGEND

Existing	Proposed	Description
		SPOT ELEVATIONS
		TOP & BOTTOM ELEVATIONS
		SPOT ELEVATIONS WITH LEADER
		HYDRANT
		WATER GATE VALVE
		WELL
		GAS GATE
		ELECTRIC HANDHOLE
		LIGHT POLE
		UTILITY POLE
		GUY POLE
		GUY ANCHOR
		DRAIN MANHOLE
		SEWER MANHOLE
		CATCH BASIN
		DOUBLE CATCH BASIN
		TEST PIT
		BORING
		SIGN SINGLE POST
		GRANITE OR CONCRETE BOUND
		WETLAND FLAG
		EXISTING BUILDING
		PROPOSED BUILDING
		MAJOR CONTOUR
		MINOR CONTOUR
		CHAINLINK FENCE
		CABLE TV LINE
		ELECTRIC, TELEPHONE, CABLE TV DUCTBANK
		OVERHEAD ELECTRIC
		NATURAL GAS LINE
		SANITARY SEWER MAIN
		DRAIN PIPE
		TELEPHONE LINE
		WATER MAIN
		FIRE PROTECTION LINE
		RETAINING WALL
		TREELINE
		HAYBALE & SILT FENCE
		LIMIT BORDERING VEGETATED WETLAND RESOURCE(1)
		100' WETLAND BUFFER ZONE

GENERAL NOTES

- SURVEY NOTES:
1. APPLICANT: DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370
- OWNER: DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370
- RECORDED PARCELS: DEED 37939 / PAGE 90-91
DEED 55374 / PAGE 44
DEED 30206 / PAGE 157
DEED 49400 / PAGE 201
DEED 25125 / PAGE 322
PLAN BK 36 / PAGE 649
PLAN BK 48 / PAGE 392
- REGISTERED PARCEL: FORMERLY APN 8-28 - #3 ON LAND COURT PLAN 41188A
2. LOCUS IS SHOWN AS FORMERLY APN'S 3-1, 3-1A, 8-27, 8-28 AND PORTION OF APN 3-2 ON THE TOWN OF ROCKLAND ASSESSORS MAPS.
3. DEEDS TO LOCUS ARE RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS IN THE FOLLOWING BOOK 55374 PAGE 44, BOOK 30206 PAGE 157, BOOK 37939 PAGE 90, BOOK 25125 PAGE 322, AND BOOK 49400 PAGE 201, RESPECTIVELY.
4. WETLAND RESOURCE AREAS ENCOUNTERED ON LOCUS WERE DELINEATED BY ENVIRONMENTAL CONSULTING AND RESTORATION, LLC, ON AUGUST 10, 2020 AND LOCATED BY INSTRUMENT SURVEY BY MCKENZIE ENGINEERING GROUP, INC.
5. LOCUS IS SITUATED IN THE INDUSTRIAL PARK-HOTEL ZONING DISTRICT (H-1).
- LOT REQUIREMENTS
MINIMUM LOT WIDTH: 110'
MINIMUM FRONTAGE: 110'
MINIMUM UPLAND: 22,000 SF.
- DIMENSIONAL REQUIREMENTS
FRONT YARD SETBACK: 50'
SIDE YARD SETBACK: 30'
REAR YARD SETBACK: 30'
6. A PORTION OF THE LOCUS IS SITUATED IN ZONE A, THE REMAINING AREA IS SITUATED IN ZONE X, AS SHOWN ON F.I.R.M. 25028C0091K, EFFECTIVE JULY 6, 2021.
7. THE PROPERTY SHOWN HEREON IS NOT LOCATED IN A DEP ZONE 2 OR A TOWN OF ROCKLAND WATERSHED PROTECTION DISTRICT. THE SITE IS LOCATED WITHIN A ZONE C SURFACE WATER PROTECTION AREA.
8. THIS SURVEY WAS MADE ON THE GROUND IN AUGUST OF 2020 BY MCKENZIE ENGINEERING GROUP, INC.
9. ELEVATIONS SHOWN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
10. AN APPROVAL NOT REQUIRED PLAN WAS APPROVED BY THE ROCKLAND PLANNING BOARD ON MAY 24, 2022 COMBINING PARCEL A (PORTION OF APN 3-2) WITH AN AREA OF 51,730 SF WITH APN 3-1 WITH AN AREA OF 34,441 SF., WITH APN 3-1A WITH AN AREA OF 2,037 SF., WITH APN 8-27 WITH AN AREA OF 90,089 S.F., AND WITH APN 8-28 WITH AN AREA OF 21,389 SF., TO CREATE "LOT 1", COMPRISING A TOTAL AREA OF 199,685 SF±, (4.58± ACRES).
- UTILITY NOTES:
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
3. ALL ONSITE UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
4. THE CONTRACTOR SHALL COORDINATE ALL STREET WORK WITH THE ROCKLAND DPW.
5. THE CONTRACTOR SHALL EXCAVATE TEST PITS PRIOR TO INSTALLING THE SEWER SERVICE TO VERIFY THE ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE RESULTS PRIOR TO COMMENCING ANY WORK.
6. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN SANITARY SEWER SERVICES AND WATER SERVICES. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER SERVICE THE ELEVATION OF THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER SERVICE. ALL OTHER UTILITIES REQUIRE MINIMUM 5' SEPARATION FROM OTHER UTILITIES.
7. ALL GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SDR-35 UNLESS OTHERWISE NOTED.
8. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHENEVER IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
9. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ROCKLAND DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.

REV	DATE	DESCRIPTION	BY	APP
1	9/19/22	BUILDING ADDITION	ESS	BCM
2	11/30/22	DRAINAGE REVISION	ESS	BCM
3	1/20/23	DRAINAGE REVISION	ESS	BCM

MCKENZIE
ENGINEERING GROUP

Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

SITE DEVELOPMENT PLANS

(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:

APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

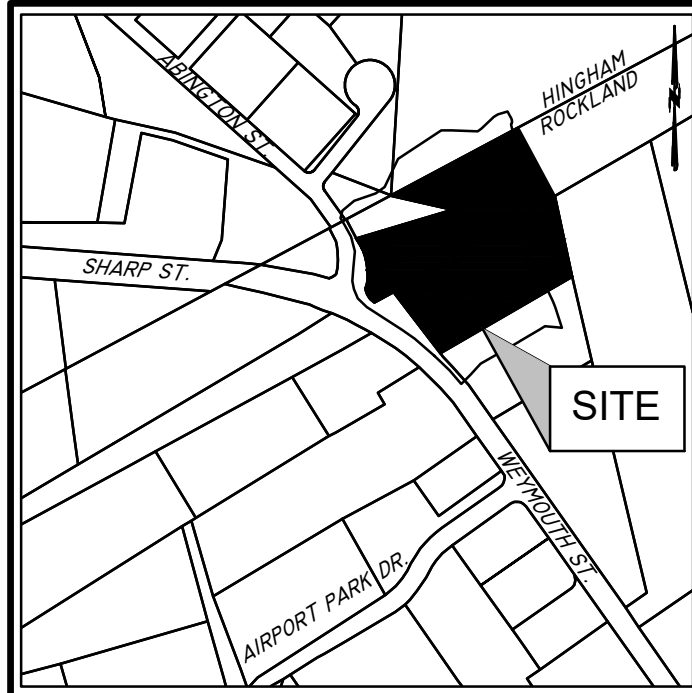
DRAWN BY: ESS
DESIGNED BY: ESS
CHECKED BY: BCM
APPROVED BY: BCM

DATE: JUNE 13, 2022
SCALE: 1"=30'
PROJECT NO.: 218-102

DWG. TITLE:
**LEGEND,
ABBREVIATIONS
AND GENERAL
NOTES**

DWG. NO:
L-1

PERMIT PLAN SET



LOCUS MAP

1"=500'

SURVEY NOTES:

1. APPLICANT:

DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

OWNER:

DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

RECORDED PARCELS:

DEED 37939 / PAGE 90-91
DEED 55374 / PAGE 44
DEED 30206 / PAGE 157
DEED 49400 / PAGE 201
DEED 25125 / PAGE 322
PLAN BK 36 / PAGE 649
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REGISTERED PARCEL: FORMERLY APN 8-28 - #3 ON LAND COURT PLAN 41188A

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- LOCUS IS SITUATED IN THE INDUSTRIAL PARK-HOTEL ZONING DISTRICT (H-1).
- LOT REQUIREMENTS
MINIMUM LOT WIDTH: 110'
MINIMUM FRONTAGE: 110'
MINIMUM UPLAND: 22,000 SF.
- DIMENSIONAL REQUIREMENTS
FRONT YARD SETBACK: 50'
SIDE YARD SETBACK: 30'
REAR YARD SETBACK: 30'
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APN 216-0-37
N/F
SHAH SAILESH J. &
TRUPTI
BK. 23371 PG. 251

APN 3-18
N/F
DAVID P. MACKAY &
SUSAN M. MACKAY
BK. 15165, PG. 242

APN 3-1A
N/F
DTC, LLC
BK. 55374, PG. 44
2040± S.F.

APN 3-13
N/F
2 SHARP STREET
REALTY TRUST LLC
BK. 49723, PG. 1

APN 213-0-30
N/F
PERRY SOUTH SHORE,
LLC.
BK. 30206 PG. 157

APN 8-28
N/F
DTC, LLC
BK. 49400, PG. 201
COMBINED 21,387± S.F.

APN 8-1
N/F
290 WEYMOUTH STREET
LLC
BK. 40064, PG. 179

APN 8-2
N/F
276 WEYMOUTH STREET
LLC
BK. 47059, PG. 150

WEYMOUTH
(PUBLIC - VARIABLE WIDTH)
STATE LAYOUT No. 4868
STREET



ABBREVIATIONS
FFE FIRST FLOOR ELEVATION
BIT CONC. BITUMINOUS CONCRETE PAVEMENT
CCB CAPE COD BERM
EP EDGE OF PAVEMENT
BC BITUMINOUS CONCRETE CURB
(AM) AS MEASURED
RET WALL RETAINING WALL
CONC. CONCRETE
RCP REINFORCED CONCRETE PIPE
VGC VERTICAL GRANITE CURB
ETW EDGE OF TRAVEL WAY
WTL METAL BERM
VCC VERTICAL CONCRETE CURB
CMP CORRUGATED METAL PIPE

LEGEND

SURVEY SYMBOLS

- REBAR
- ANGLE IRON
- CONCRETE BOUND WITH DRILL HOLE
- STONE BOUND
- STONE BOUND

UTILITY SYMBOLS

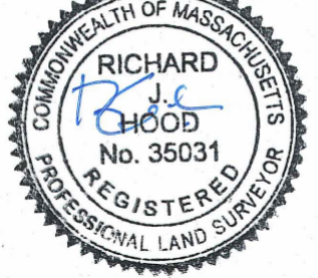
- CHIMNEY
- ELECTRIC HAND HOLE
- GUY POLE
- GUY WIRE
- HVAC UNIT
- BUILDING LIGHT W/MAST
- BUILDING LIGHT TRANSFORMER
- WATER GATE
- EXHAUST VENT
- AIR VENT
- DRAINAGE SUMP
- ELECTRIC MANHOLE
- SEWER MANHOLE
- DRAIN MANHOLE
- TELEPHONE MANHOLE
- DRAINAGE CATCH BASIN
- DOOR WAY THRESHOLD
- HYDRANT
- POST INDICATOR VALVE
- UTILITY POLE
- YARD LIGHT
- RIP RAP
- BOLLARD
- SIGN
- FIRE ALARM
- DECIDUOUS TREE
- CONIFEROUS TREE

LINE DESIGNATORS

- WATER MAIN
- HANDRAIL
- JERSEY BARRIER
- GUARD RAIL
- OVERHEAD WIRES
- GAS LINE
- WATER SERVICE
- UNDERGROUND ELECTRIC
- STORM DRAIN LINE
- SANITARY SEWER LINE
- DRAINAGE SWALE
- CHAIN LINK FENCE

EXISTING CONDITIONS PLAN
(APN'S 3-1, 3-1A, PORTION OF 3-2,
8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MA 02370

PROFESSIONAL SURVEYOR:



APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

DRAWN BY: ESS
DESIGNED BY: ESS
CHECKED BY: RLS
APPROVED BY: R.H.
DATE: OCTOBER 4, 2021
SCALE: 1"=30'
PROJECT NO.: 218-102
DWG. TITLE:

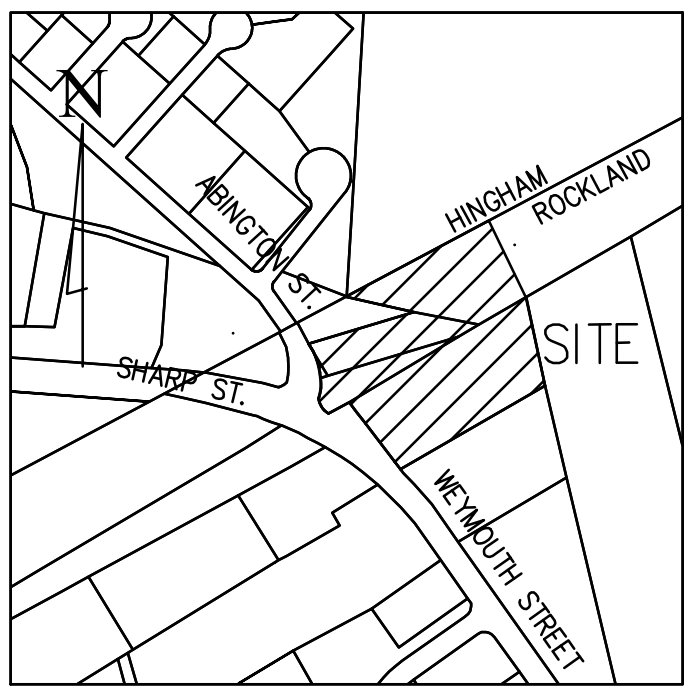
EXISTING
CONDITIONS
PLAN

DWG. NO.:

EX-1

© MCKENZIE ENGINEERING GROUP, INC.

M:\MEG\2018 PROJECTS\218-102 DTC, LLC - WEYMOUTH STREET\DWGS\218-102 ECP CURRENT.DWG



LOCUS MAP
Not to Scale

LAND USAGE TABLES

ARTICLE V – BUILDING, LOT AND GENERAL DISTRICT REGULATIONS

INDUSTRIAL PARK–HOTEL (H-1) ZONING DISTRICT			
CRITERIA	REQUIRED	EXISTING (APN 8–27)	PROPOSED
MIN. LOT AREA	--	90,089 S.F.	199,685 S.F.
MAX. LOT COVERAGE (BUILDING)	50%	29.4%	20.0%
MIN. LOT FRONTAGE	110 FT.	201.0 FT.	505.6 FT.
MAX. BUILDING HEIGHT	3 STORIES/36 FT.	<36 FT.	<36 FT.
FRONT YARD SETBACK	50 FT.	61.6 FT.	61.6 FT.
REAR YARD SETBACK	30 FT.	128.8 FT.	128.8 FT.
SIDE YARD SETBACK	30 FT.	30.0 FT.	30.0 FT.

PARKING CALCULATIONS (PROPOSED BUILDING ADDITION)

SECTION 415–35 OFF-STREET PARKING

COMPONENT	REQUIRED (ROCKLAND ZONING BYLAW)	REQUIRED
OFFICE (MEZZANINE)	1 PER 250 S.F. FLOOR AREA (2,400 S.F. / 250 S.F. = 9.6 SPACES)	15
	1 PER TWO OFFICE EMPLOYEES (10 EMPLOYEES / 2 = 5 SPACES)	
	10 + 5 = 15	
INDUSTRIAL (FIRST FLOOR OF ADDITION)	FIRST FLOOR OF ADDITION TO BE USED AS WAREHOUSE (13,600 S.F.)	6
	1 PER TWO INDUSTRIAL EMPLOYEES (12 EMPLOYEES / 2 = 6 SPACES)	
	1 PER EACH VEHICLE BASED ON THE PREMISES	
		PROPOSED
		21
		25

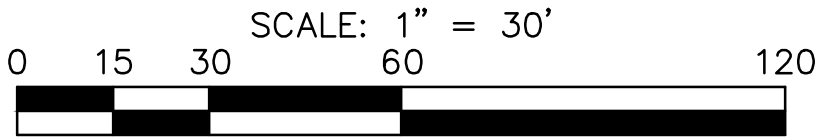
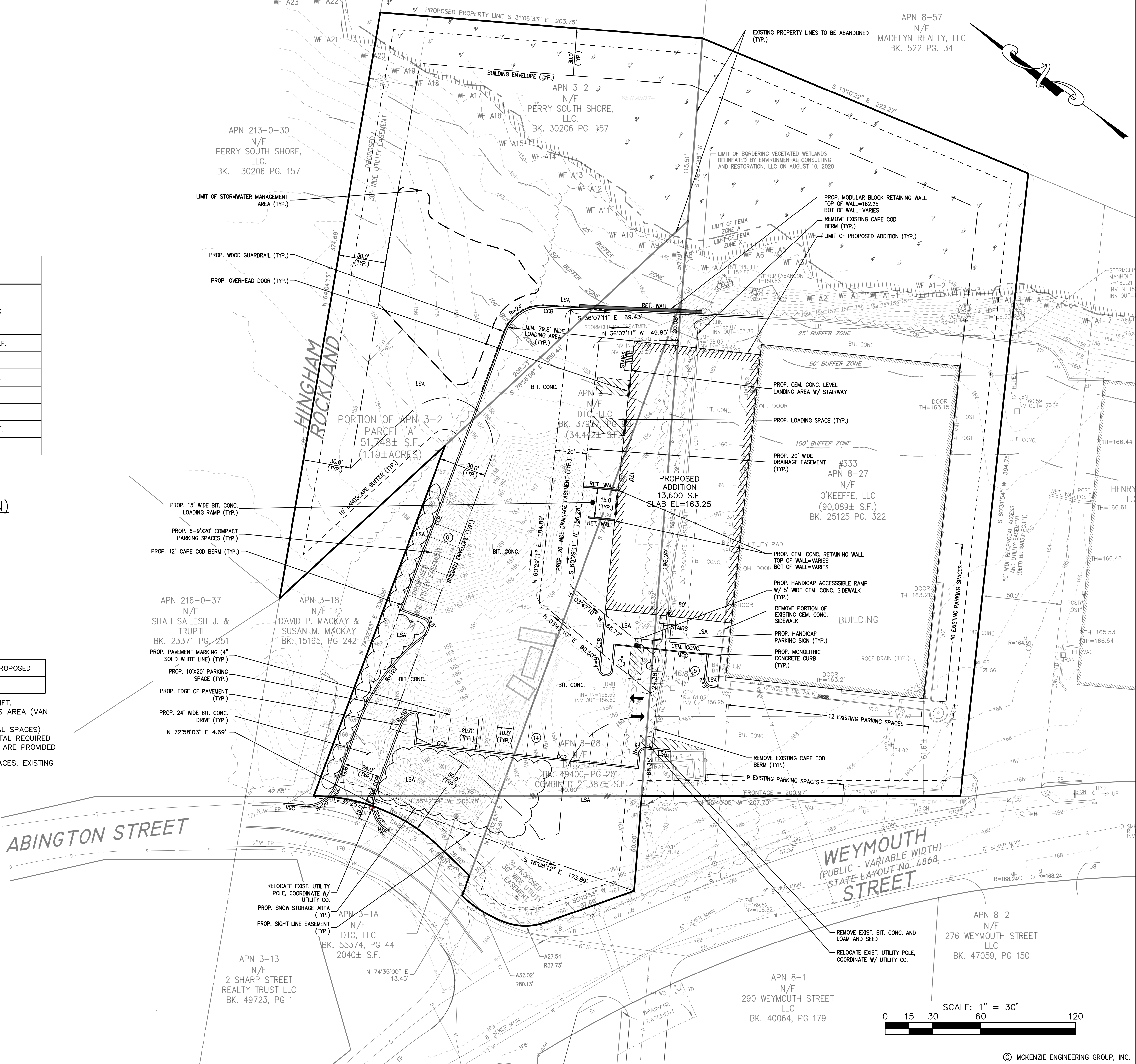
PARKING NOTES:

- EMPLOYEE PARKING DEMAND IS BASED ON THE MAXIMUM NUMBER OF EMPLOYEES PER SHIFT.
- 25 TOTAL SPACES INCLUDES 1 AAB ACCESSIBLE SPACES 10' X 20' WITH 8' X 20' ACCESS AREA (VAN ACCESSIBLE SPACE)
- (521 CMR: ARCHITECTURAL ACCESS BOARD) ACCESSIBLE SPACES REQUIRED = 1 (1–25 TOTAL SPACES)
- TOWN OF ROCKLAND ZONING BYLAW REQUIRES 10'X20' PARKING SPACES. 30% OF THE TOTAL REQUIRED PARKING MAY BE COMPACT PARKING SPACES SIZED 9'X18'. 6 – COMPACT PARKING SPACES ARE PROVIDED BY THIS SUBMISSION.
- PREVIOUSLY APPROVED PLANS FOR 333 WEYMOUTH ST. REQUIRED 31 TOTAL PARKING SPACES, EXISTING SITE DEVELOPMENT AT 333 WEYMOUTH STREET PROVIDES SPACE FOR 31 PARKING SPACES.

LOADING NOTES (SEC 415–36):

REQUIRED: 1 SPACE PER 10,000 S.F. OF INDUSTRIAL BUILDING,
PLUS 1 SPACE PER ADDITIONAL 60,000 = 2 SPACES

PROVIDED: 2 LOADING SPACES



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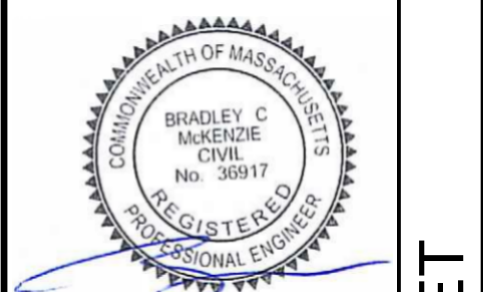
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2	11/30/22	DRAINAGE REVISION
3	1/20/23	DRAINAGE REVISION

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www.mckeng.com

SITE DEVELOPMENT PLANS

(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:



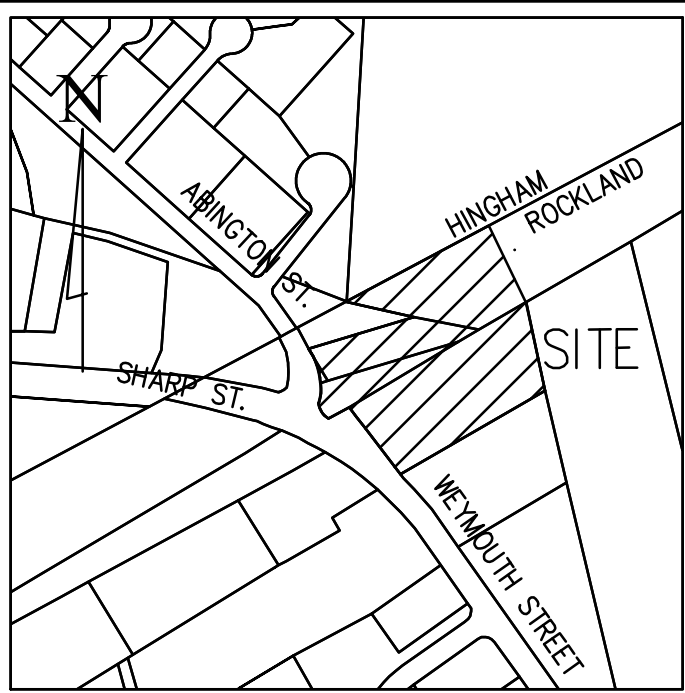
APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

DRAWN BY:	ESS
DESIGNED BY:	ESS
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 13, 2022
SCALE:	1" = 30'
PROJECT NO.:	218-102
DWG. TITLE:	

SITE LAYOUT PLAN

DWG. NO.: C-1

PERMIT PLAN SET



LOCUS MAP
Not to Scale

- DRAINAGE NOTES:**
1. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY EARTH MOVING ACTIVITIES.
 2. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES, ADDITIONAL SILTATION FENCING AND FILTER FABRIC FOR INSTALLATION AS DIRECTED BY THE TOWN TO MITIGATE ANY EMERGENCY CONDITIONS.
 3. UPON COMPLETION OF ALL SITE WORK THE CONTRACTOR SHALL INSPECT ALL ON-SITE AND OFF-SITE CATCH BASINS (THAT RECEIVED CATCH BASIN PROTECTION) AND DRAINAGE MANHOLES AND REMOVE ALL SEDIMENT AND DEBRIS THAT HAS ACCUMULATED DURING THE COURSE OF CONSTRUCTION.
 4. SUBSOIL SHALL BE OVER-EXCAVATED UNTIL THE NATIVE SANDY LOAM (Bw HORIZON) MATERIALS ARE ENCOUNTERED. UNSUITABLE SOILS (FILL) LOCATED WITHIN THE LIMITS OF THE INFILTRATION BASIN SHALL BE REMOVED PRIOR TO CONSTRUCTION OF THE BASIN.

SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: ERIK SCHOU MAKER, SOIL EVALUATOR #14264
SOIL TESTING WITNESSED BY: HENRY NOVER, NOVER ENVIRONMENTAL CONSULTING, LLC.
DATE: NOVEMBER 22, 2022

TP #1B	APPROX. GRADE EL. 152.9±	TP #2B	APPROX. GRADE EL. 152.8±	TP #3B	APPROX. GRADE EL. 154.8±	TP #4B	APPROX. GRADE EL. 153.8±				
EL. 152.2	AP HORIZON SANDY LOAM 10YR 2/4 Bw HORIZON SANDY LOAM 10YR 3/4 C1 HORIZON LOAMY SAND 10Y 5/2	8"	EL. 152.0	AP HORIZON SANDY LOAM 10YR 2/4 Bw HORIZON SANDY LOAM 10YR 3/4 C1 HORIZON LOAMY SAND 10Y 5/3	10"	EL. 153.5	FILL Bw HORIZON SANDY LOAM 10YR 3/5 C1 HORIZON LOAMY SAND 10Y 5/2	16"	EL. 152.5	FILL Bw HORIZON SANDY LOAM 10YR 3/5 C1 HORIZON LOAMY SAND 10Y 5/2	16"
EL. 150.7		26"	EL. 149.6		39"	EL. 150.6		50"	EL. 150.5		40"
EL. 147.2		69±"	EL. 146.7		73±"	EL. 148.0		82±"	EL. 146.8		84±"
WEAVING OBSERVED: N/A STANDING WATER OBSERVED: 51" MOTTLING OBSERVED: 28" E.S.H.G.W. = 28", EL. 150.6		WEAVING OBSERVED: N/A STANDING WATER OBSERVED: 60" MOTTLING OBSERVED: 32" E.S.H.G.W. = 32", EL. 150.1		WEAVING OBSERVED: N/A STANDING WATER OBSERVED: 79" MOTTLING OBSERVED: 57" E.S.H.G.W. = 57", EL. 150.1		WEAVING OBSERVED: N/A STANDING WATER OBSERVED: 82" MOTTLING OBSERVED: 57" E.S.H.G.W. = 57", EL. 149.1					

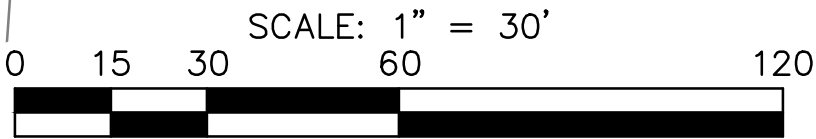
SOIL TESTING AND EVALUATION BY: ERIK SCHOU MAKER, SOIL EVALUATOR #14264
SOIL TESTING WITNESSED BY: NOT WITNESSED BY TOWN AGENT
DATE: DECEMBER 15, 2020

TP #1	APPROX. GRADE EL. 155.3±	TP #2	APPROX. GRADE EL. 154.3±	TP #3	APPROX. GRADE EL. 152.3±	TP #4	APPROX. GRADE EL. 152.6±
EL. 154.5	Ap HORIZON SANDY LOAM 10YR 2/1	EL. 153.4	Ap HORIZON SANDY LOAM 10YR 2/1	EL. 151.3	Ap HORIZON SANDY LOAM 10YR 2/1	EL. 151.3	Ap HORIZON SANDY LOAM 10YR 2/1
EL. 150.3	Bw HORIZON SANDY LOAM 10YR 6/6	EL. 151.3	Bw HORIZON SANDY LOAM 10YR 5/6	EL. 149.3	Bw HORIZON SANDY LOAM 10YR 4/6	EL. 149.6	Bw HORIZON SANDY LOAM 10YR 5/4
EL. 149.3	C1 HORIZON LOAMY SAND 10Y 6/1	EL. 148.3	C1 HORIZON LOAMY SAND 10Y 6/4	EL. 146.3	C1 HORIZON LOAMY SAND 10Y 4/4	EL. 146.6	C1 HORIZON LOAMY SAND 10Y 4/4
WEAVING OBSERVED: 60"		WEAVING OBSERVED: 36"		WEAVING OBSERVED: 56"		WEAVING OBSERVED: 36"	
STANDING WATER OBSERVED: N/A		STANDING WATER OBSERVED: N/A		STANDING WATER OBSERVED: N/A		STANDING WATER OBSERVED: N/A	
MOTTLING OBSERVED: N/A		MOTTLING OBSERVED: N/A		MOTTLING OBSERVED: N/A		MOTTLING OBSERVED: N/A	
E.S.H.G.W. = 60", EL. 150.3		E.S.H.G.W. = 36", EL. 151.3		E.S.H.G.W. = 56", EL. 147.66		E.S.H.G.W. = 36", EL. 149.6	

TP #5	APPROX. GRADE EL. 154.7±	TP #6	APPROX. GRADE EL. 156.3±	TP #7	APPROX. GRADE EL. 153.6±			
EL. 153.5	Ap HORIZON SANDY LOAM 10YR 2/1	15"	EL. 155.3	Ap HORIZON LOAMY SAND 10YR 2/1	12"	EL. 152.6	Ap HORIZON SANDY LOAM 10YR 2/1	12"
EL. 150.7	Bw HORIZON SANDY LOAM 10YR 4/4	48"	EL. 153.6	Bw HORIZON LOAMY SAND 10YR 3/4	32"	EL. 150.6	Bw HORIZON SANDY LOAM 10YR 5/4	36"
EL. 148.7	C1 HORIZON LOAMY SAND 10Y 5/3	72±"	EL. 150.3	C1 HORIZON LOAMY SAND 10Y 5/2	72±"	EL. 147.6	C1 HORIZON LOAMY SAND 10Y 4/4	72±"
WEEPING OBSERVED: 56" STANDING WATER OBSERVED: N/A MOTTLING OBSERVED: N/A E.S.H.G.W. = 56", EL. 150.0			WEEPING OBSERVED: 69" STANDING WATER OBSERVED: N/A MOTTLING OBSERVED: N/A E.S.H.G.W. = 69", EL. 150.55			WEEPING OBSERVED: 56" STANDING WATER OBSERVED: N/A MOTTLING OBSERVED: N/A E.S.H.G.W. = 56", EL. 148.9		

ABINGTON STREET

WEYMOUTH STREET
(PUBLIC - VARIABLE WIDTH)
STATE LAYOUT NO. 4888



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REV	DATE	DESCRIPTION
1	9/19/22	ESS BCM
2	11/30/22	DRAINAGE REVISION
3	1/20/23	DRAINAGE REVISION

MCKENZIE ENGINEERING GROUP
Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

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343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS



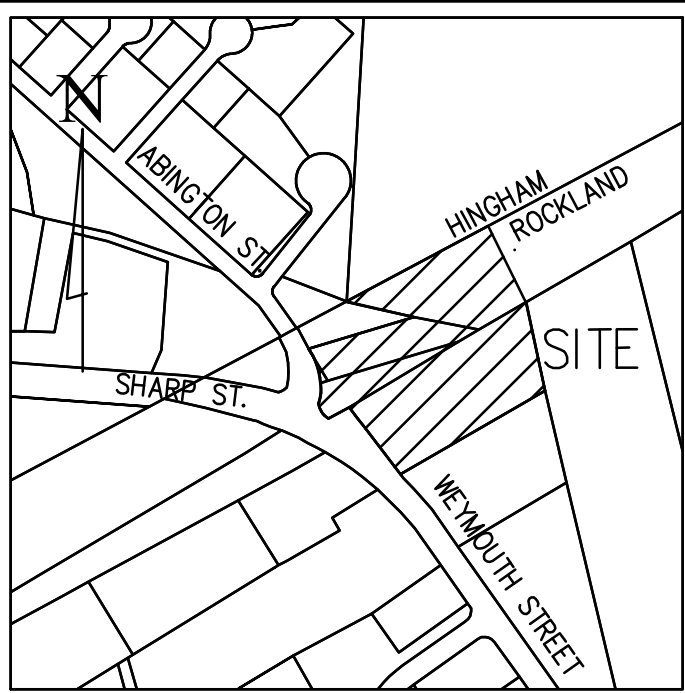
APPLICANT:
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ROCKLAND, MA 02370

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CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 13, 2022
SCALE:	1" = 30'
PROJECT NO.:	218-102
DWG. TITLE:	

GRADING AND UTILITY PLAN

DWG. NO.:
C-2

PERMIT PLAN SET



LOCUS MAP
Not to Scale

CONSTRUCTION SEQUENCE

TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE. REFER TO THE CONSTRUCTION PHASE POLLUTION PREVENTION AND EROSION AND SEDIMENT CONTROL PLAN (BEST MANAGEMENT PRACTICES OPERATION AND MAINTENANCE PLAN) IN APPENDIX F OF THE DRAINAGE CALCULATIONS AND STORMWATER MANAGEMENT REPORT FOR ADDITIONAL INFORMATION RELATING TO STRUCTURAL PRACTICES, STABILIZATION PRACTICES AND DUST CONTROL.

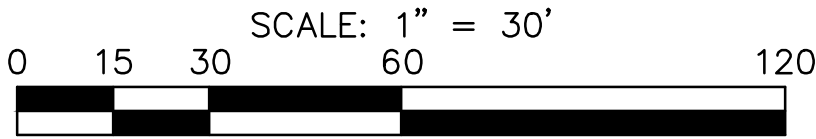
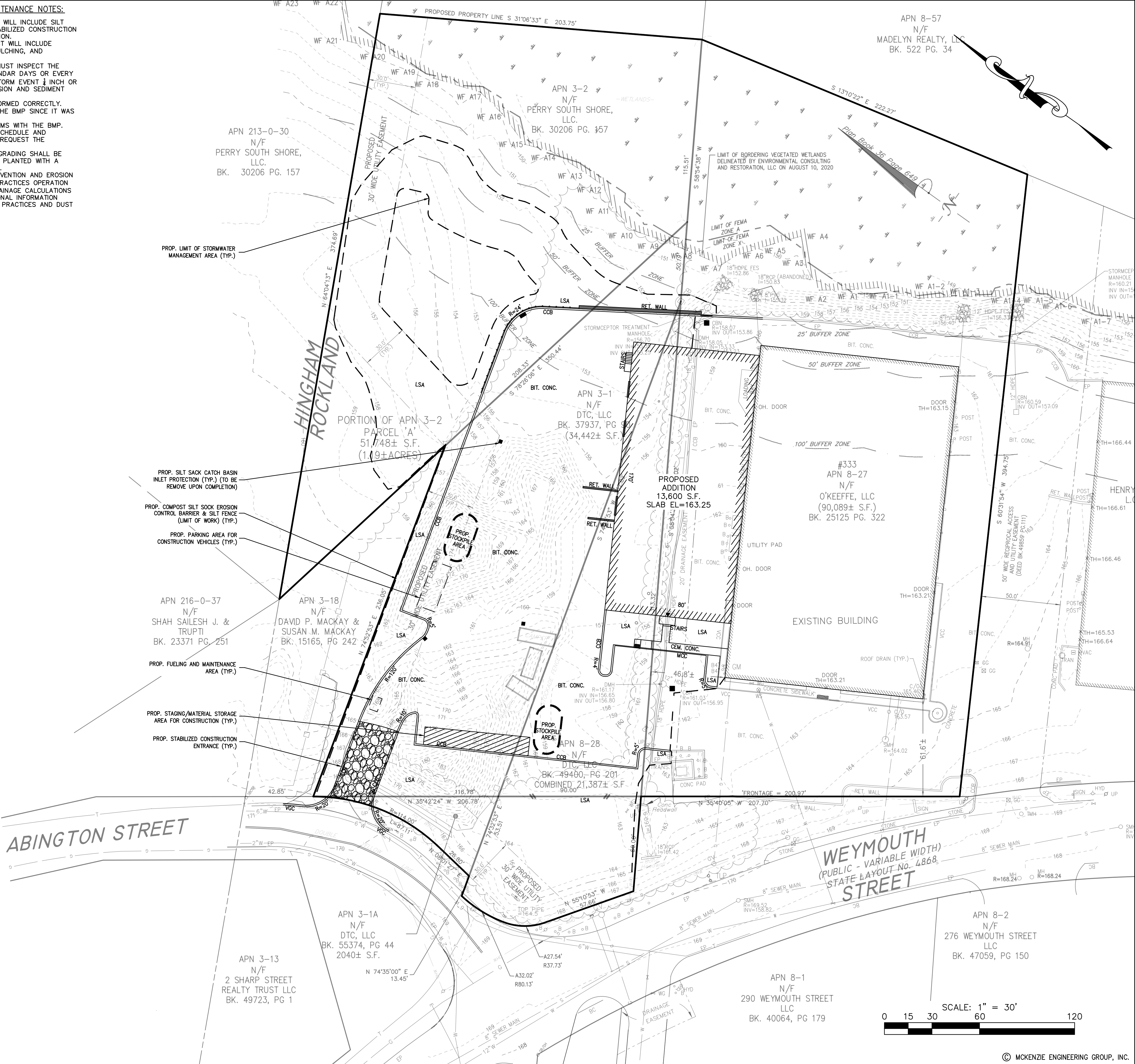
1. THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING PRIOR TO ANY CONSTRUCTION ACTIVITY.
2. STABILIZATION PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN PLACE SILT SOCK AND SILTATION FENCE ON THE SITE PLANS.
3. CLEAR AND GRUB UP, AS REQUIRED FOR THE CONSTRUCTION OF THE DRIVEWAY, PARKING AREAS AND RELATED INFRASTRUCTURE.
4. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
5. EXCAVATE TOPSOIL AND SUBSOIL FROM CUT AND FILL AREAS AND STOCKPILE ON SITE IN LOCATIONS SHOWN ON THE PLAN. CONSIDERATION SHOULD BE GIVEN TO LOCATING STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, WHERE POSSIBLE, TO ACT AS TEMPORARY DIVERSIONS.
6. CONSTRUCT CUT AND FILL AREAS, INSTALLING HAYBALE CHECK DAMS AT TOES OF ALL 3:1 OR GREATER SLOPES, AND AT ENDS OF ALL CUT AREAS. ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS. PLACE ALL SLOPE PROTECTION WHERE INDICATED ON THE PLAN. THE STORMWATER INFILTRATION BASIN SHALL BE CONSTRUCTED IMMEDIATELY AFTER THE DRIVEWAY AND PARKING AREA ROUGH GRADING IS COMPLETED AND THE AREA HAS BEEN CLEARED OF VEGETATION. STORMWATER INFILTRATION BASIN CONSTRUCTION MUST INCLUDE THE APPLICATION OF LOAM AND SEED.
7. INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES. ALL CATCH BASINS SHALL BE COVERED WITH SILT SOCK OR EQUIVALENT INLET PROTECTION. NO RUNOFF SHOULD BE DIRECTED TOWARD THE INFILTRATION BASIN UNTIL THE PAVEMENT BASE COURSE IS SET.
8. GRADE DRIVEWAY TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES WHERE WARRANTED. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN.
9. PLACE GRAVEL SUBBASE.
10. PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON DRIVEWAY AND PARKING AREAS.
11. GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH AND SEEDING.
12. PLACE THE FINAL WEARING COURSE OF PAVEMENT.
13. COMPLETE FINE GRADING OF SHOULDERS AND PLACE PAVEMENT IN MISCELLANEOUS AREAS.
14. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ADEQUATE GROWTH IS ESTABLISHED. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND SURFACE.

GENERAL CONSTRUCTION NOTES

1. THE STORMWATER INFILTRATION BASIN WILL BE DELINEATED BY STAKES WITH CAUTION TAPE AND/OR CONSTRUCTION FENCING PRIOR TO CONSTRUCTION TO PROTECT FROM SOIL COMPACTION. NO HEAVY EQUIPMENT WILL BE ALLOWED IN THIS AREA.
2. TOPSOIL AND EXCAVATED STOCKPILES WILL BE STORED IN SEPARATE STOCKPILE AREAS. THE CONTRACTOR MAY ADJUST THE SIZE AND LOCATION OF STOCKPILE AREAS AS NEEDED.
3. STUMPS, LOGS AND DEBRIS HINDERING CONSTRUCTION ACTIVITY SHALL BE REMOVED PRIOR TO CONSTRUCTION AND DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
4. UNSUITABLE MATERIAL INCLUDING THE EXISTING STOCKPILE WILL BE REMOVED AND/OR RELOCATED FROM SITE PRIOR TO CONSTRUCTION. REFER TO THE CONSTRUCTION PHASE POLLUTION PREVENTION AND EROSION AND SEDIMENT CONTROL PLAN (BEST MANAGEMENT PRACTICES OPERATION AND MAINTENANCE PLAN) IN APPENDIX F OF THE DRAINAGE CALCULATIONS AND STORMWATER MANAGEMENT REPORT FOR ADDITIONAL INFORMATION RELATING TO STRUCTURAL PRACTICES, STABILIZATION PRACTICES AND DUST CONTROL.

CONSTRUCTION PHASE BMP OPERATION AND MAINTENANCE NOTES:

1. STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE SILT SOCK EROSION CONTROL BARRIERS, SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES, STOCKPILE AREAS, AND INLET PROTECTION.
2. STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING.
3. OPERATOR PERSONNEL AND/OR ITS CONSULTANTS MUST INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY 7 CALENDAR DAYS OR EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT $\frac{1}{2}$ INCH OR GREATER. THE INSPECTOR SHOULD REVIEW THE EROSION AND SEDIMENT CONTROLS WITH RESPECT TO THE FOLLOWING:
A. WHETHER OR NOT THE BMP WAS INSTALLED/PERFORMED CORRECTLY.
B. WHETHER OR NOT THERE HAS BEEN DAMAGE TO THE BMP SINCE IT WAS INSTALLED OR PERFORMED.
C. WHAT SHOULD BE DONE TO CORRECT ANY PROBLEMS WITH THE BMP.
4. THE INSPECTOR SHALL COMPLETE THE INSPECTION SCHEDULE AND EVALUATION CHECKLIST FOR FINDINGS AND SHOULD REQUEST THE REQUIRED MAINTENANCE OR REPAIR.
5. ALL SLOPES EXCEEDING 15% RESULTING FROM SITE GRADING SHALL BE BOTH COVERED WITH FOUR INCHES OF TOPSOIL AND PLANTED WITH A VEGETATED COVER SUFFICIENT TO PREVENT EROSION.
6. REFER TO THE CONSTRUCTION PHASE POLLUTION PREVENTION AND EROSION AND SEDIMENT CONTROL PLAN (BEST MANAGEMENT PRACTICES OPERATION AND MAINTENANCE PLAN) IN APPENDIX F OF THE DRAINAGE CALCULATIONS AND STORMWATER MANAGEMENT REPORT FOR ADDITIONAL INFORMATION RELATING TO STRUCTURAL PRACTICES, STABILIZATION PRACTICES AND DUST CONTROL.



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REV	DATE	DESCRIPTION	BY	APP
1	9/19/22	BUILDING ADDITION	ESS	BCM
2	11/30/22	DRAINAGE REVISION	ESS	BCM
3	1/20/23	DRAINAGE REVISION	ESS	BCM

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150 Longwater Drive, Suite 101
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SITE DEVELOPMENT PLANS
(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:

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333 WEYMOUTH ST.
ROCKLAND, MA 02370

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DWG. TITLE:	

EROSION AND SEDIMENT CONTROL PLAN

DWG. NO:
ESC-1

PERMIT PLAN SET

Inner Buffer Zone (Green Shaded Area, 0-to-25-foot area) – Vegetation management tasks are proposed to manage non-native invasive plant species. Vegetation management activities proposed within the inner buffer zone consist of the following:

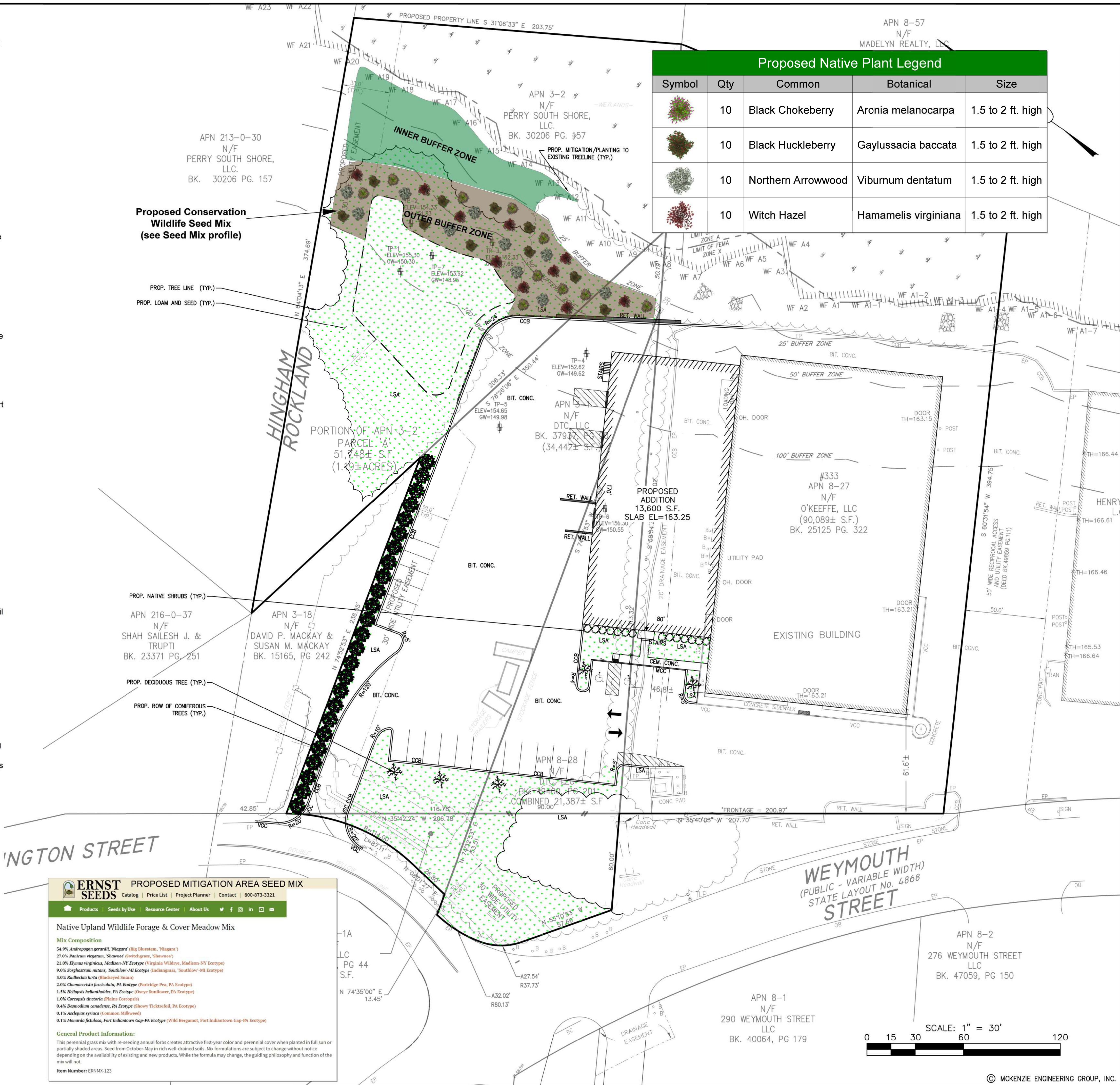
- Outer Buffer Zone (Brown Shaded Area, 25-to-100-foot area) – Vegetation management activities and the replacement of native vegetation is proposed within the outer buffer zone area once the stormwater infiltration basin has been constructed. Proposed activities within the outer buffer zone consist of the following:

- Additional Mitigation Measures** – Several additional mitigation measures are included such as:

1. Removal of gravel dumped along the BVW boundary behind the existing building at 333 Weymouth Street.
2. Restoration of abandoned outfalls (behind existing building at 333 Weymouth St.)
3. Hand-removal of debris within BVW

Monitoring - The mitigation areas should be monitored in accordance with the anticipated Order of Conditions. At a minimum, the areas should be monitored for the first two growing seasons following construction. Monitoring reports will be submitted to the Conservation office no later than December 15th of each year. The first year of monitoring will be the first year that the site has been through a full growing season after completion of construction and planting. For monitoring purposes, a growing season starts no later than May 31st. Each monitoring report should include photographs and recommendations such as remedial actions to maintain plants, additional plantings, etc. In the event that any plantings within the mitigation area are found to be unviable or dead, they will be replaced with like kind and size. Replacement of plantings will take place when found or as soon as seasonal weather permits. Any such replacement work will be included in the monitoring reports for that period.

Following the initial management of non-native invasive plants described above, the ongoing control of non-native invasive plants is needed during the construction period and long-term maintenance. During the growing season within the construction period, the overview specialist performing the monitoring and reporting tasks listed above should perform a late spring, late summer, and end of the fall site inspection for the regrowth of non-native invasive plants. These new seedlings, if found, should be hand pulled by the overviewing specialist during the site inspection. After site construction, the landscape contractor maintaining the site should perform growing season inspections and remove regrowth of non-native invasive plants via hand pulling or following the approved tasks listed above.

[illegible]

SITE DEVELOPMENT PLANS

343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:

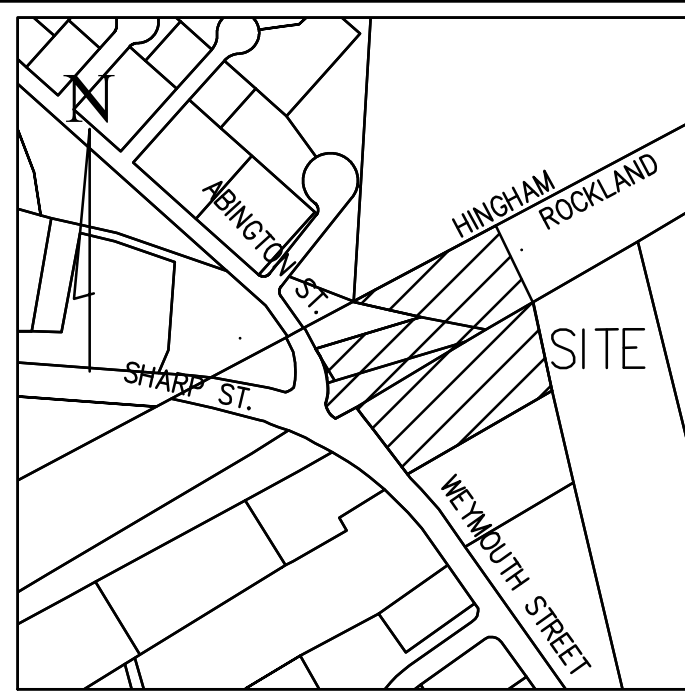


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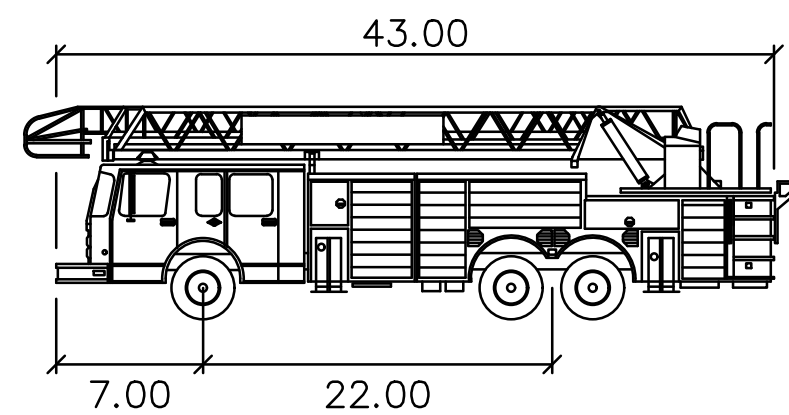
DRAWN BY:	ESS
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PROJECT NO.:	218-102
DWG. TITLE:	

MITIGATION PLAN

SHEET 1 OF 1



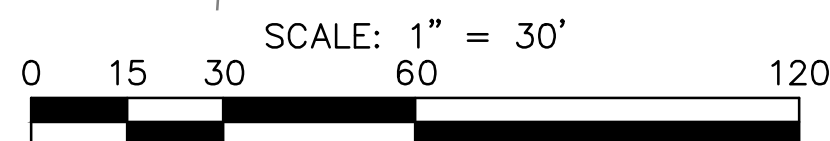
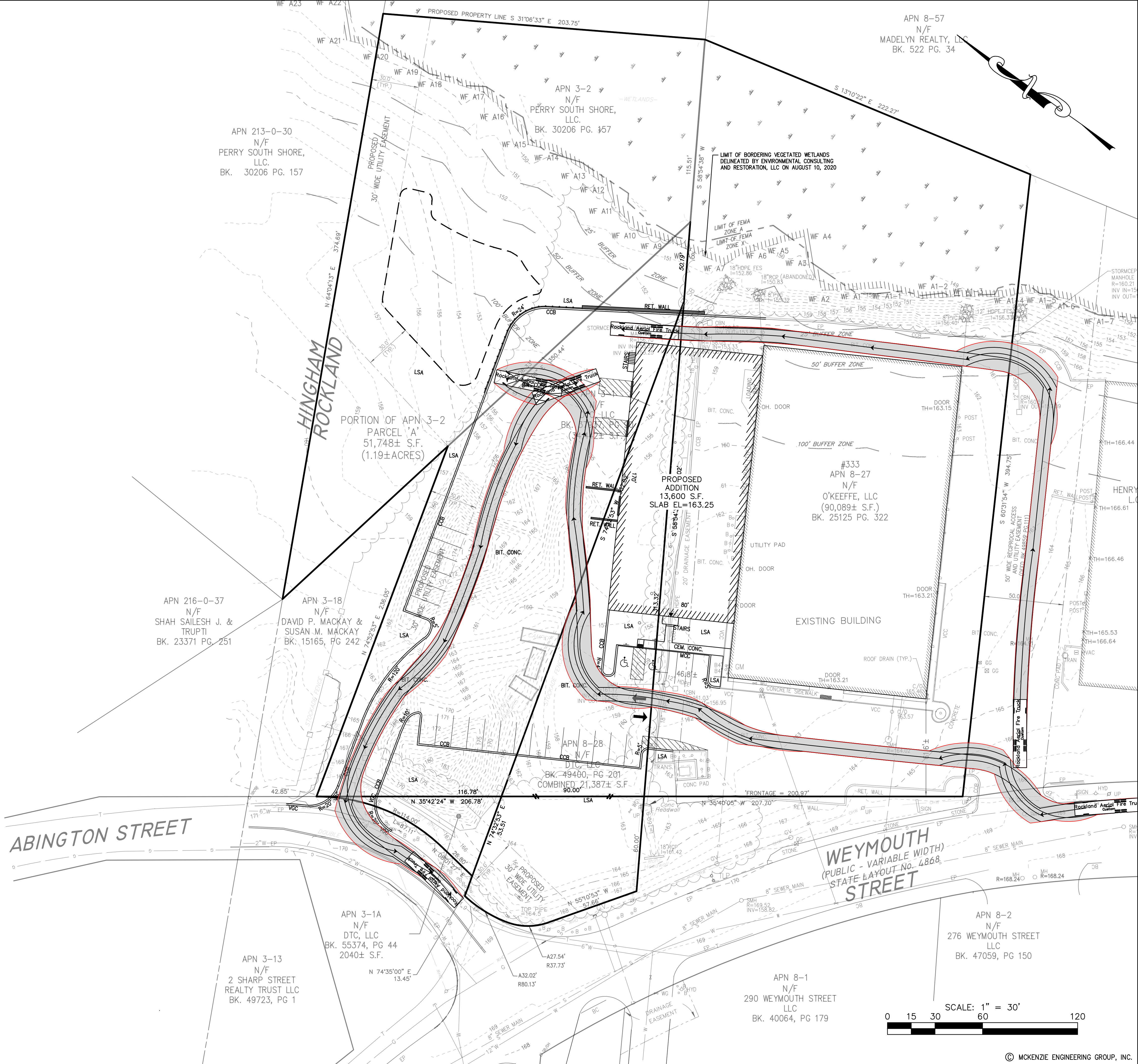
LOCUS MAP
Not to Scale



Aerial Fire Truck

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 33.3

NOTE: LIMIT OF BUMPER OVERHANG IS SHOWN IN RED. VEHICLE WHEEL PATH IS SHOWN AS BLACK LINES.



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PROFESSIONAL ENGINEER:



PERMIT PLAN SET

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ROCKLAND, MA 02370

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DATE:	JUNE 13, 2022
SCALE:	1" = 30'
PROJECT NO.:	218-102
DWG. TITLE:	

TRUCK TURNING PLAN

DWG. NO.:
T-1

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Hydro
International
Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

MANHOLE WALL AND SLAB THICKNESS ARE NOT TO SCALE.
CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASING UNIT TO FABRICATION.

Parts List			
ITEM	QTY.	DESCRIPTION	SIZE (in)
1	1	I.D. CONCRETE MANHOLE	48
2	1	INLET CHUTE (W/ FLOATABLES TRAP)	
3	1	OUTLET CHUTE	
4	1	INLET PIPE (BY OTHERS)	18
5	1	INLET PIPE (BY OTHERS)	12
6	1	OUTLET PIPE (BY OTHERS)	18
7	1	HIGH FLOW BYPASS	
8	1	FRAME AND COVER (OR GRATE)	

4' DIAMETER FIRST DEFENSE UNIT (FD-3HC)
N.T.S.

12" MIN.
24" SQUARE OPENING (TYP)
48" DIA. (MIN.)

ALTERNATE TOP SLAB

8" 24" 8"

SEE NOTE 4

FINISH GRADE

CONCENTRIC CONE SECTION
SEE ALTERNATE TOP SLAB

RISER SECTIONS
AS REQ'D.

MONOLITHIC BASE SECTION

HOOD

INVERT

OUTLET

SEE NOTE 3

DIA. VARIES

12" CRUSHED STONE (MASSDOT M2.01.4, CRUSHED STONE)

COMPACTED SUBGRADE

CATCH BASIN W/HOOD

SCALE: N.T.S.

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED.
5. ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

FINISH GRADE

30" (MIN.)

SEE NOTE 3

INVERT

HOOD

4" MIN.

24" SQUARE

22" x 44" OPENING IN TOP SLAB

12" TYP.

12" CRUSHED STONE (MASSDOT M2.01.4, CRUSHED STONE)

COMPACTED SUBGRADE

SHALLOW CATCH BASIN

SCALE: N.T.S.

LEBARON L24SG01 GRATE (2) AND LV2448-2 RECTANGULAR FRAME OR EQUAL.

PLAN

DOUBLE GRATE CATCH BASIN DETAIL

SCALE: N.T.S.

85 in [7.083 ft]
81 in [6.75 ft]
60 in [5.0 ft]
48 in [4.0 ft] (INLET & OUTLET)
22 in [1.83 ft]
0.0' in [0.00 ft]

SECTION A-A

18'-0" MIN. LENGTH TOP RAIL
24" MAX.
#9 OR TWO #14 STEEL FASTENERS OR APPLIED EQUAL
6" MIN. EXPANSION SLEEVE
BRACE TUBE
CHAIN LINK FENCE 2" MESH #9 GAGE BARBED FINISH W/GREEN VINYL COAT
ADJUSTABLE TIE ROD 3" TAKE UP 3/8" ROUND
LINE POST
10'-0" C.C. MAX.
10'-0" C.C. MAX.
12"

TYPICAL CHAIN LINK FENCE DETAIL

SCALE: N.T.S.

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE & END POST & TWO STRETCHER BARS FOR CORNER & BRACING.
NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE & END POST & TWO STRETCHER BARS FOR CORNER & BRACING.
NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
4" - 24" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC
(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS
(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)
TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

18" MIN.
8" MIN THICKNESS GUIDELINE
4" MIN

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

NYLOPLAST 24" DRAIN BASIN

SCALE: N.T.S.

SEE PLANS FOR FINAL GRADING & CAPPING REQUIREMENTS
EXISTING GROUND SURFACE
TYPE-A GRAVEL BORROW COMPACTED TO 95% DRY DENSITY
6" MAX. STONE SIZE (SEE NOTE 1)
6" MIN.
VARIES
12" MIN.
3/4" CRUSHED STONE BEDDING (SEE NOTE 2)
SHEETING, IF REQUIRED IS TO BE CUT OFF 1 FOOT ABOVE THE TOP OF PIPE WHENEVER SHEETING HAS PENETRATED INTO BEDDING & PROTECTION ZONE
6" MIN.
UNDISTURBED NATURAL MATERIAL (SEE NOTES 3 & 4)
LEDGE OR UNSUITABLE MATERIAL
EARTH

UNPAVED
PAVED
PAVING SECTION AS SPECIFIED
VARIABLE
1.33x O.D. PIPE
18"

GRAVITY SEWER TRENCH DETAIL

SCALE: N.T.S.

FINISH GRADE
9' MIN.
5" MIN.
18" MIN.
18" MIN.
9' MIN.

PIPE JOINT (TYP)
WATER MAIN OVER SEWER OR DRAIN
DRAIN OR SEWER PIPE
WATER MAIN UNDER SEWER OR DRAIN

SEWER OR DRAIN CROSSING DETAIL

N.T.S.

APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

DESIGNED BY:
ESS

CHECKED BY:
BCM

APPROVED BY:
BCM

DATE:
JUNE 13, 2022

SCALE:
PROJECT NO.:
218-102

DWG. TITLE:
CONSTRUCTION DETAILS

PROFESSIONAL ENGINEER:

COMMONWEALTH OF MASSACHUSETTS
BRADLEY C. MCKENZIE
REGISTERED PROFESSIONAL ENGINEER
No. 30917

PERMIT PLAN SET

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

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MANHOLE WALL AND SLAB THICKNESS ARE NOT TO SCALE.
CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASING UNIT TO FABRICATION.

Parts List			
ITEM	QTY.	DESCRIPTION	SIZE (in)
1	1	I.D. CONCRETE MANHOLE	48
2	1	INLET CHUTE (W/ FLOATABLES TRAP)	
3	1	OUTLET CHUTE	
4	1	INLET PIPE (BY OTHERS)	18
5	1	INLET PIPE (BY OTHERS)	12
6	1	OUTLET PIPE (BY OTHERS)	18
7	1	HIGH FLOW BYPASS	
8	1	FRAME AND COVER (OR GRATE)	

4' DIAMETER FIRST DEFENSE UNIT (FD-3HC)
N.T.S.

12" MIN.
24" SQUARE OPENING (TYP)
48" DIA. (MIN.)

ALTERNATE TOP SLAB

8" 24" 8"

SEE NOTE 4

FINISH GRADE

CONCENTRIC CONE SECTION
SEE ALTERNATE TOP SLAB

RISER SECTIONS
AS REQ'D.

MONOLITHIC BASE SECTION

HOOD

INVERT

OUTLET

SEE NOTE 3

DIA. VARIES

12" CRUSHED STONE (MASSDOT M2.01.4, CRUSHED STONE)

COMPACTED SUBGRADE

CATCH BASIN W/HOOD

SCALE: N.T.S.

12" MIN.
24" SQUARE
48" DIA. (MIN.)

SHALLOW CATCH BASIN

SCALE: N.T.S.

LEBARON L24SG01 GRATE (2) AND LV2448-2 RECTANGULAR FRAME OR EQUAL.

PLAN

DOUBLE GRATE CATCH BASIN DETAIL

SCALE: N.T.S.

85 in [7.083 ft]
81 in [6.75 ft]
60 in [5.0 ft]
48 in [4.0 ft] (INLET & OUTLET)
22 in [1.83 ft]
0.0' in [0.00 ft]

SECTION A-A

18'-0" MIN. LENGTH TOP RAIL
24" MAX.
#9 OR TWO #14 STEEL FASTENERS OR APPLIED EQUAL
6" MIN. EXPANSION SLEEVE
BRACE TUBE
CHAIN LINK FENCE 2" MESH #9 GAGE BARBED FINISH W/GREEN VINYL COAT
ADJUSTABLE TIE ROD 3" TAKE UP 3/8" ROUND
LINE POST
10'-0" C.C. MAX.
10'-0" C.C. MAX.
12"

TYPICAL CHAIN LINK FENCE DETAIL

SCALE: N.T.S.

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE & END POST & TWO STRETCHER BARS FOR CORNER & BRACING.
NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
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NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
4" - 24" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC
(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS
(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)
TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.
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18" MIN.
8" MIN THICKNESS GUIDELINE
4" MIN

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

NYLOPLAST 24" DRAIN BASIN

SCALE: N.T.S.

SEE PLANS FOR FINAL GRADING & CAPPING REQUIREMENTS
EXISTING GROUND SURFACE
TYPE-A GRAVEL BORROW COMPACTED TO 95% DRY DENSITY
6" MAX. STONE SIZE (SEE NOTE 1)
6" MIN.
VARIES
12" MIN.
3/4" CRUSHED STONE BEDDING (SEE NOTE 2)
SHEETING, IF REQUIRED IS TO BE CUT OFF 1 FOOT ABOVE THE TOP OF PIPE WHENEVER SHEETING HAS PENETRATED INTO BEDDING & PROTECTION ZONE
6" MIN.
UNDISTURBED NATURAL MATERIAL (SEE NOTES 3 & 4)
LEDGE OR UNSUITABLE MATERIAL
EARTH

UNPAVED
PAVED
PAVING SECTION AS SPECIFIED
VARIABLE
1.33x O.D. PIPE
18"

GRAVITY SEWER TRENCH DETAIL

SCALE: N.T.S.

FINISH GRADE
9' MIN.
5" MIN.
18" MIN.
18" MIN.
9' MIN.

PIPE JOINT (TYP)
WATER MAIN OVER SEWER OR DRAIN
DRAIN OR SEWER PIPE
WATER MAIN UNDER SEWER OR DRAIN

SEWER OR DRAIN CROSSING DETAIL

N.T.S.

APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

DESIGNED BY:
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CONSTRUCTION DETAILS

PROFESSIONAL ENGINEER:

COMMONWEALTH OF MASSACHUSETTS
BRADLEY C. MCKENZIE
REGISTERED PROFESSIONAL ENGINEER
No. 30917

PERMIT PLAN SET

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

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Parts List			
ITEM	QTY.	DESCRIPTION	SIZE (in)
1	1	I.D. CONCRETE MANHOLE	48
2	1	INLET CHUTE (W/ FLOATABLES TRAP)	
3	1	OUTLET CHUTE	
4	1	INLET PIPE (BY OTHERS)	18
5	1	INLET PIPE (BY OTHERS)	12
6	1	OUTLET PIPE (BY OTHERS)	18
7	1	HIGH FLOW BYPASS	
8	1	FRAME AND COVER (OR GRATE)	

4' DIAMETER FIRST DEFENSE UNIT (FD-3HC)
N.T.S.

12" MIN.
24" SQUARE OPENING (TYP)
48" DIA. (MIN.)

ALTERNATE TOP SLAB

8" 24" 8"

SEE NOTE 4

FINISH GRADE

CONCENTRIC CONE SECTION
SEE ALTERNATE TOP SLAB

RISER SECTIONS
AS REQ'D.

MONOLITHIC BASE SECTION

HOOD

INVERT

OUTLET

SEE NOTE 3

DIA. VARIES

12" CRUSHED STONE (MASSDOT M2.01.4, CRUSHED STONE)

COMPACTED SUBGRADE

CATCH BASIN W/HOOD

SCALE: N.T.S.

12" MIN.
24" SQUARE
48" DIA. (MIN.)

SHALLOW CATCH BASIN

SCALE: N.T.S.

LEBARON L24SG01 GRATE (2) AND LV2448-2 RECTANGULAR FRAME OR EQUAL.

PLAN

DOUBLE GRATE CATCH BASIN DETAIL

SCALE: N.T.S.

85 in [7.083 ft]
81 in [6.75 ft]
60 in [5.0 ft]
48 in [4.0 ft] (INLET & OUTLET)
22 in [1.83 ft]
0.0' in [0.00 ft]

SECTION A-A

18'-0" MIN. LENGTH TOP RAIL
24" MAX.
#9 OR TWO #14 STEEL FASTENERS OR APPLIED EQUAL
6" MIN. EXPANSION SLEEVE
BRACE TUBE
CHAIN LINK FENCE 2" MESH #9 GAGE BARBED FINISH W/GREEN VINYL COAT
ADJUSTABLE TIE ROD 3" TAKE UP 3/8" ROUND
LINE POST
10'-0" C.C. MAX.
10'-0" C.C. MAX.
12"

TYPICAL CHAIN LINK FENCE DETAIL

SCALE: N.T.S.

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE & END POST & TWO STRETCHER BARS FOR CORNER & BRACING.
NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE & END POST & TWO STRETCHER BARS FOR CORNER & BRACING.
NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
4" - 24" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC
(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS
(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)
TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.
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18" MIN.
8" MIN THICKNESS GUIDELINE
4" MIN

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

NYLOPLAST 24" DRAIN BASIN

SCALE: N.T.S.

SEE PLANS FOR FINAL GRADING & CAPPING REQUIREMENTS
EXISTING GROUND SURFACE
TYPE-A GRAVEL BORROW COMPACTED TO 95% DRY DENSITY
6" MAX. STONE SIZE (SEE NOTE 1)
6" MIN.
VARIES
12" MIN.
3/4" CRUSHED STONE BEDDING (SEE NOTE 2)
SHEETING, IF REQUIRED IS TO BE CUT OFF 1 FOOT ABOVE THE TOP OF PIPE WHENEVER SHEETING HAS PENETRATED INTO BEDDING & PROTECTION ZONE
6" MIN.
UNDISTURBED NATURAL MATERIAL (SEE NOTES 3 & 4)
LEDGE OR UNSUITABLE MATERIAL
EARTH

UNPAVED
PAVED
PAVING SECTION AS SPECIFIED
VARIABLE
1.33x O.D. PIPE
18"

GRAVITY SEWER TRENCH DETAIL

SCALE: N.T.S.

FINISH GRADE
9' MIN.
5" MIN.
18" MIN.
18" MIN.
9' MIN.

PIPE JOINT (TYP)
WATER MAIN OVER SEWER OR DRAIN
DRAIN OR SEWER PIPE
WATER MAIN UNDER SEWER OR DRAIN

SEWER OR DRAIN CROSSING DETAIL

N.T.S.

APPLICANT:
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ROCKLAND, MA 02370

DESIGNED BY:
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CONSTRUCTION DETAILS

PROFESSIONAL ENGINEER:

COMMONWEALTH OF MASSACHUSETTS
BRADLEY C. MCKENZIE
REGISTERED PROFESSIONAL ENGINEER
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PERMIT PLAN SET

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

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Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

MANHOLE WALL AND SLAB THICKNESS ARE NOT TO SCALE.
CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASING UNIT TO FABRICATION.

Parts List			
ITEM	QTY.	DESCRIPTION	SIZE (in)
1	1	I.D. CONCRETE MANHOLE	48
2	1	INLET CHUTE (W/ FLOATABLES TRAP)	
3	1	OUTLET CHUTE	
4	1	INLET PIPE (BY OTHERS)	18
5	1	INLET PIPE (BY OTHERS)	12
6	1	OUTLET PIPE (BY OTHERS)	18
7	1	HIGH FLOW BYPASS	
8	1	FRAME AND COVER (OR GRATE)	

4' DIAMETER FIRST DEFENSE UNIT (FD-3HC)
N.T.S.

12" MIN.
24" SQUARE OPENING (TYP)
48" DIA. (MIN.)

ALTERNATE TOP SLAB

8" 24" 8"

SEE NOTE 4

FINISH GRADE

CONCENTRIC CONE SECTION
SEE ALTERNATE TOP SLAB

RISER SECTIONS
AS REQ'D.

MONOLITHIC BASE SECTION

HOOD

INVERT

OUTLET

SEE NOTE 3

DIA. VARIES

12" CRUSHED STONE (MASSDOT M2.01.4, CRUSHED STONE)

COMPACTED SUBGRADE

CATCH BASIN W/HOOD

SCALE: N.T.S.

12" MIN.
24" SQUARE
48" DIA. (MIN.)

SHALLOW CATCH BASIN

SCALE: N.T.S.

LEBARON L24SG01 GRATE (2) AND LV2448-2 RECTANGULAR FRAME OR EQUAL.

PLAN

DOUBLE GRATE CATCH BASIN DETAIL

SCALE: N.T.S.

85 in [7.083 ft]
81 in [6.75 ft]
60 in [5.0 ft]
48 in [4.0 ft] (INLET & OUTLET)
22 in [1.83 ft]
0.0' in [0.00 ft]

SECTION A-A

18'-0" MIN. LENGTH TOP RAIL
24" MAX.
#9 OR TWO #14 STEEL FASTENERS OR APPLIED EQUAL
6" MIN. EXPANSION SLEEVE
BRACE TUBE
CHAIN LINK FENCE 2" MESH #9 GAGE BARBED FINISH W/GREEN VINYL COAT
ADJUSTABLE TIE ROD 3" TAKE UP 3/8" ROUND
LINE POST
10'-0" C.C. MAX.
10'-0" C.C. MAX.
12"

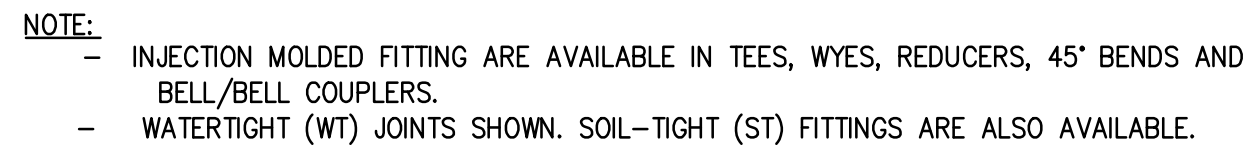
TYPICAL CHAIN LINK FENCE DETAIL

SCALE: N.T.S.

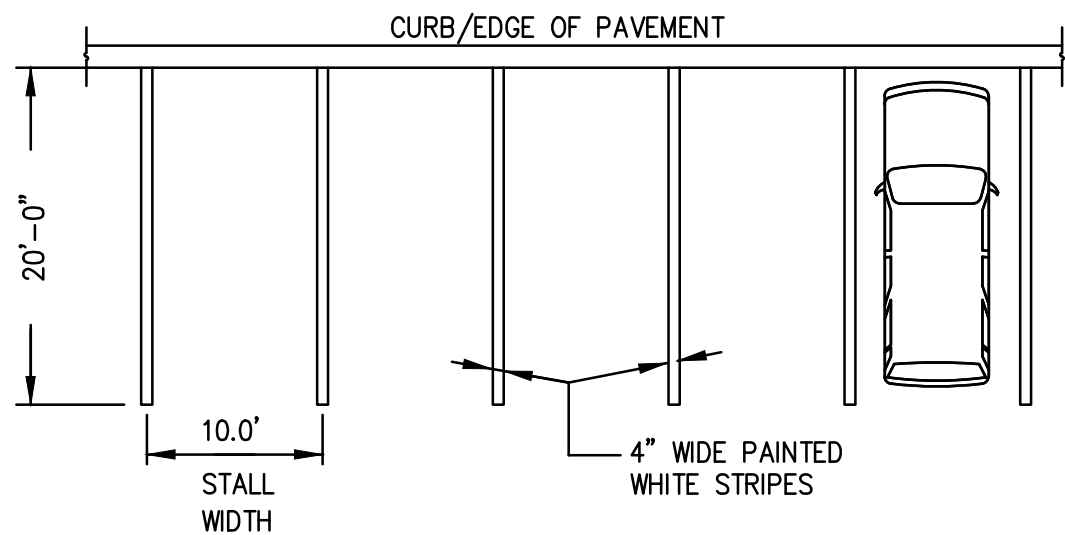
END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC. ONE STRETCHER BAR FOR EACH GATE & END POST & TWO STRETCHER BARS FOR CORNER & BRACING.
NOTES:
1. ROUND BASES MAY BE SUBSTITUTED FOR THE SQUARE BASES SHOWN BY USING FIBER TUBULAR FORMS.
2. BRACING NOT REQUIRED FOR 3'0" & 4'0" FENCE.
3. CONCRETE TO BE 4,000 P.S.I. FIBER REINFORCED.

WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)

END OR CORNER POSTS:
NOMINAL 2" DIAMETER GALVANIZED STEEL PIPE, OR 2 1/2"x2"H SECTION.
LINE POSTS:
NOMINAL 1-1/2" DIAMETER GALVANIZED STEEL PIPE OR 1-7/8"x1-5/8" STEEL H SECTION.
BRACE TUBES NOMINAL 1-1/4" DIA. GALVANIZED STEEL PIPE.
LINE GATE & END POST BASE ("A") 2'-6" FOR 3 FT. & 4 FT. FENCE. 3'-0" FOR 6 FT. FENCE. 5'-0" FOR ALL OTHERS
STRETCHER BARS LENGTH TO BE 1 INCH LESS THAN FULL HEIGHT OF FABRIC.



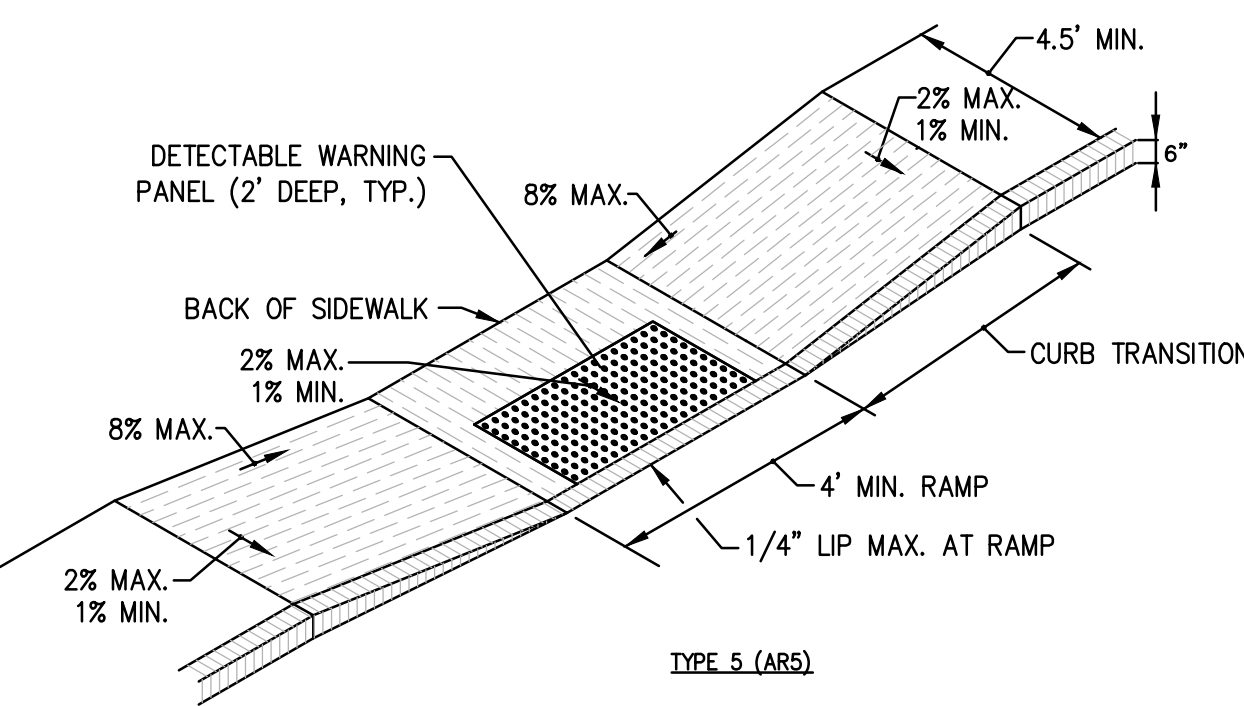
ROOF LEADER CONNECTION DETAIL
SCALE: N.T.S.



STANDARD SPACE

- NOTES:
1. COMPACT PARKING SPACES SHALL BE 9'X18'.

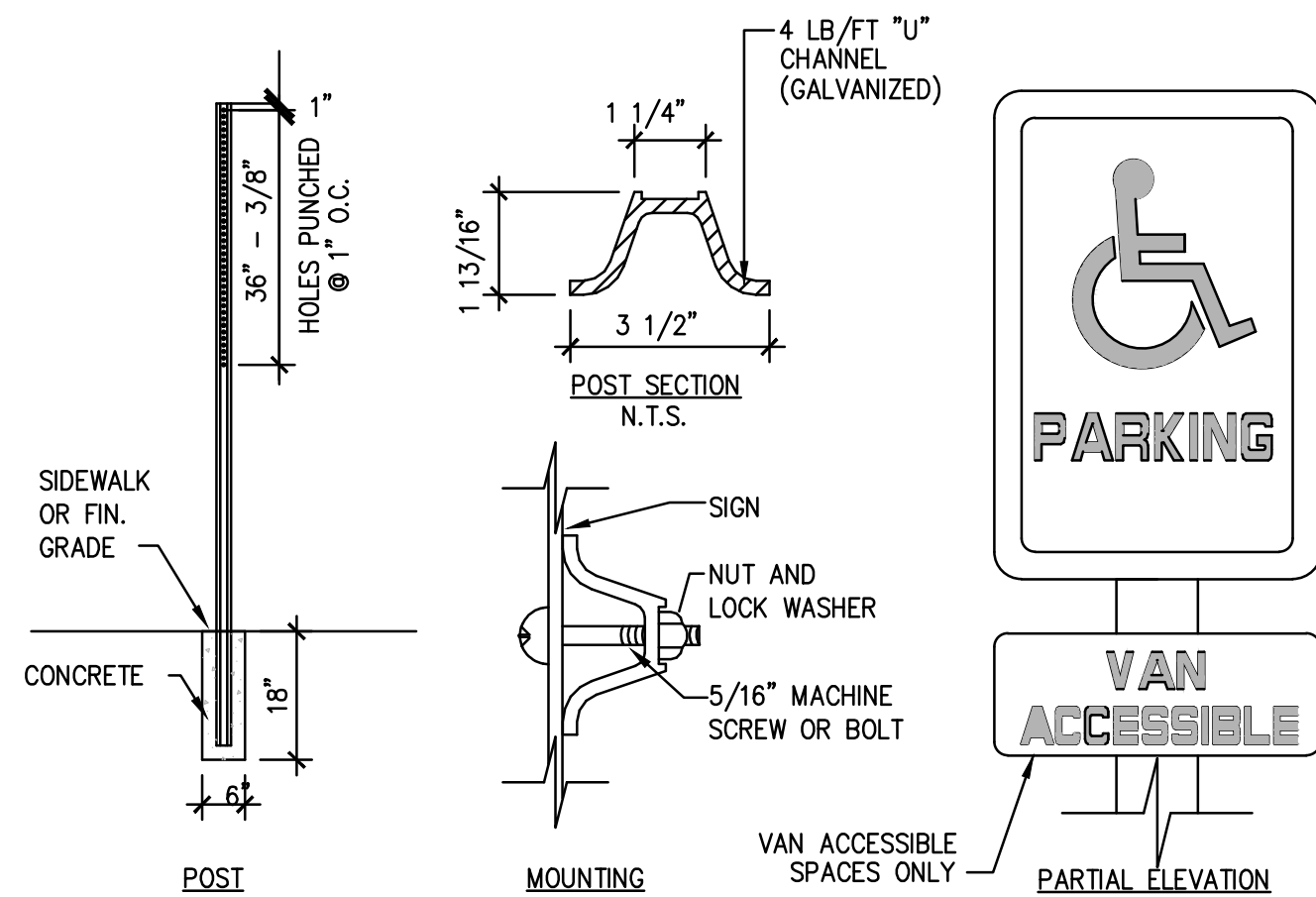
TYPICAL STRIPING DETAILS
SCALE: N.T.S.



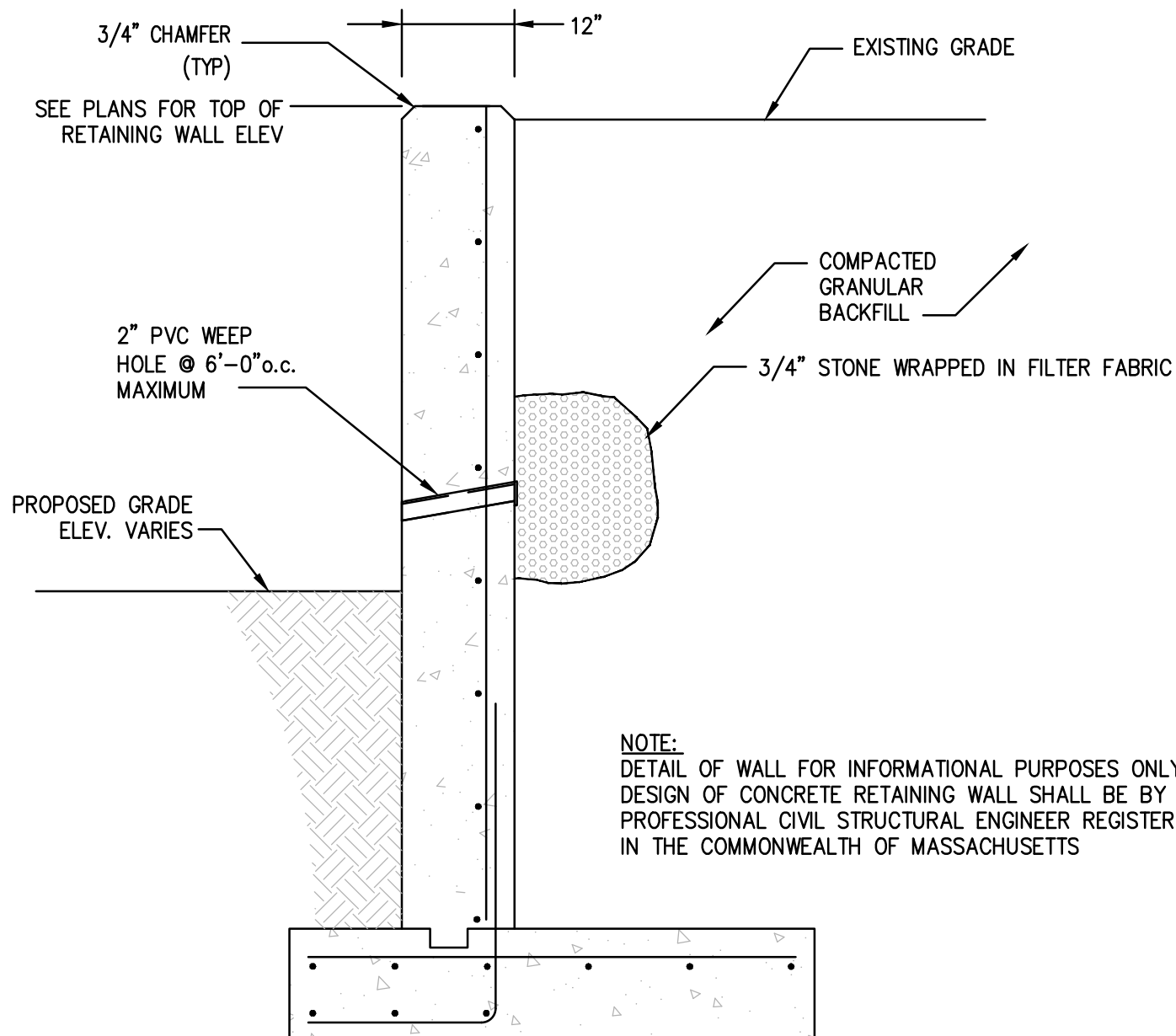
TYPE 5 (AR5)

1. SEE PLANS FOR CURB TYPE.
2. CURBS AND WALKS ALONG ACCESSIBLE ROUTES SHALL MEET OR EXCEED THE APPLICABLE REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD, FAIR HOUSING ACT AND ADA.
3. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2%.
4. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
5. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 8%.
6. MAINTAIN A MINIMUM OF 3 FEET CLEAR AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS ETC.).
7. GRADE BASE OF RAMP TO PREVENT PONDING.
8. RAMP CONSTRUCTION SHALL CONFORM TO TYPICAL SIDEWALK SECTION.
9. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5'X5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
10. ALL CURBING AT RAMPS SHALL BE VERTICAL CURBING SET FLUSH WHERE IT ABUTS ROADWAY.
11. ALL RAMPS SHALL BE CEMENT CONCRETE OR BITUMINOUS CONCRETE WITH ROUGHENED NON-SLIP SURFACE.
12. ALL DETECTABLE WARNING PANELS SHALL BE PER TOWN OF ROCKLAND STANDARD DETAILS.
13. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE-CONTACT.

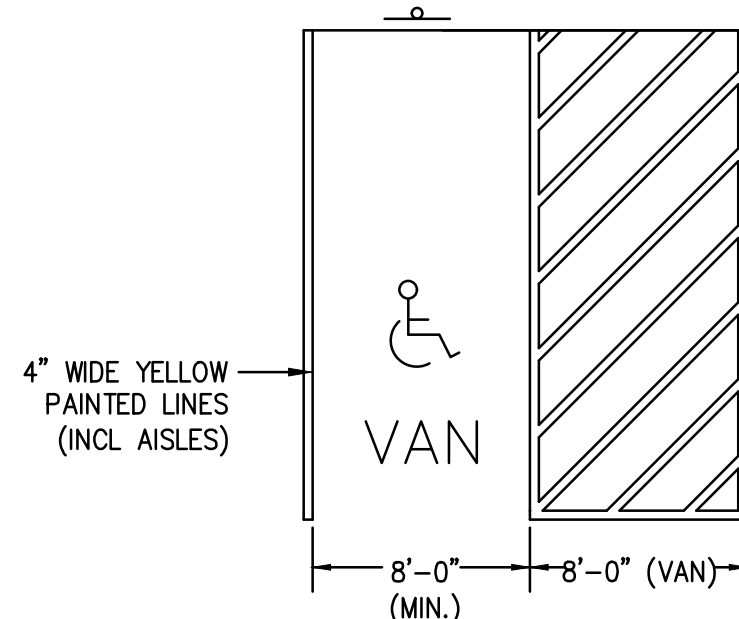
ACCESSIBLE CURB RAMPS
SCALE: N.T.S.



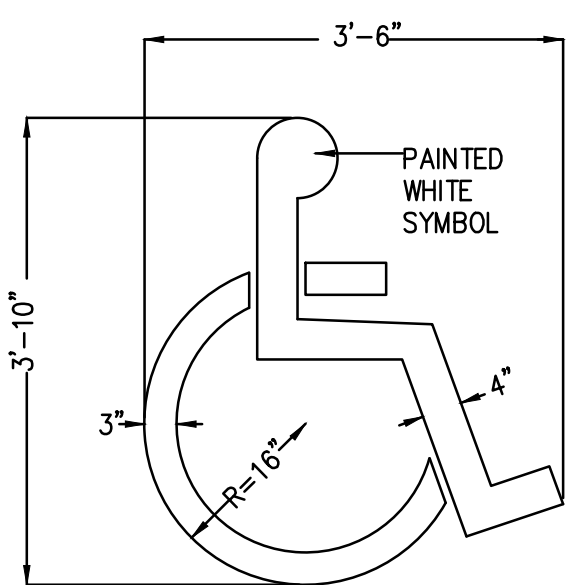
SIGN DETAIL
SCALE: N.T.S.



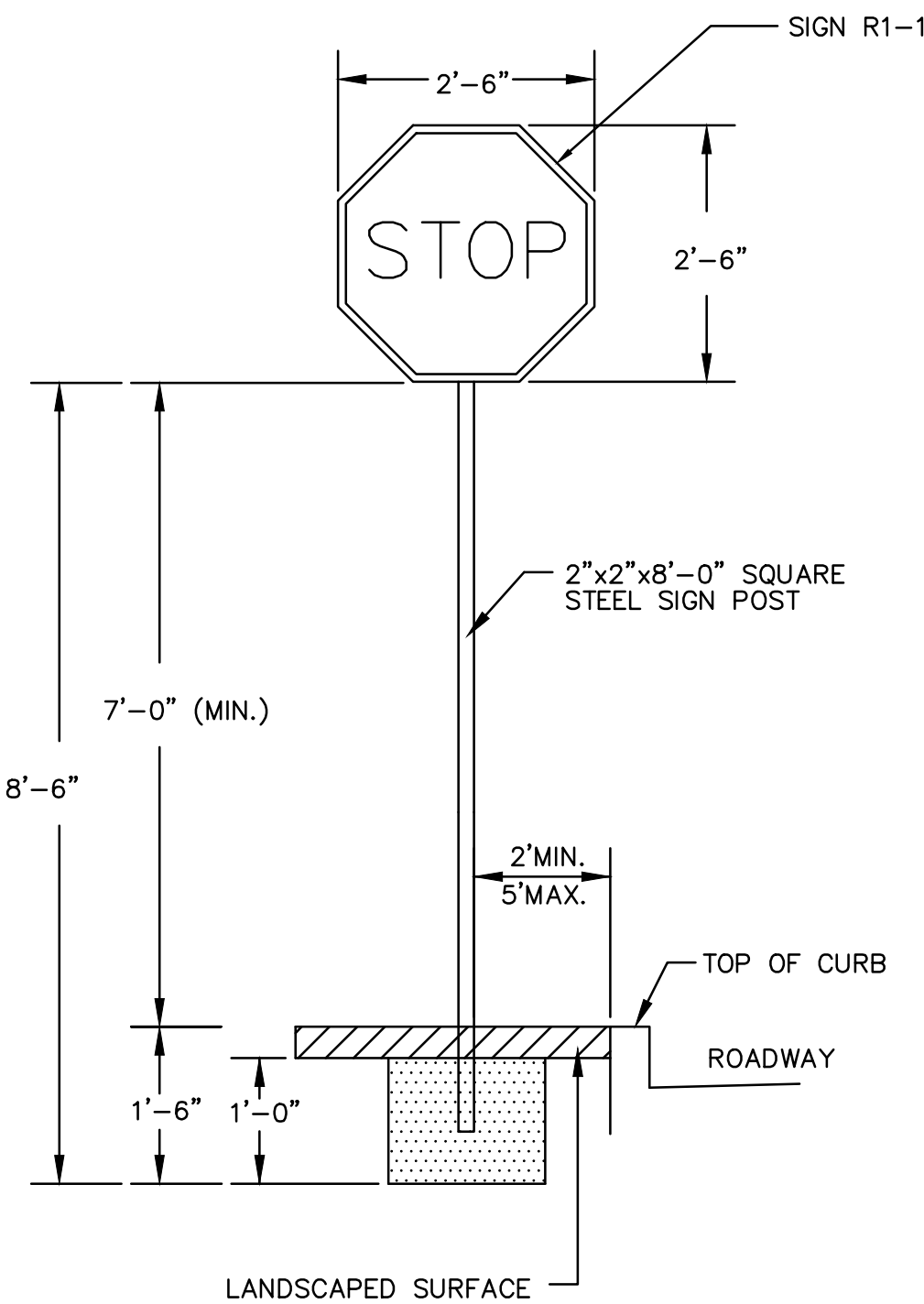
CONCRETE RETAINING WALL
SCALE: N.T.S.



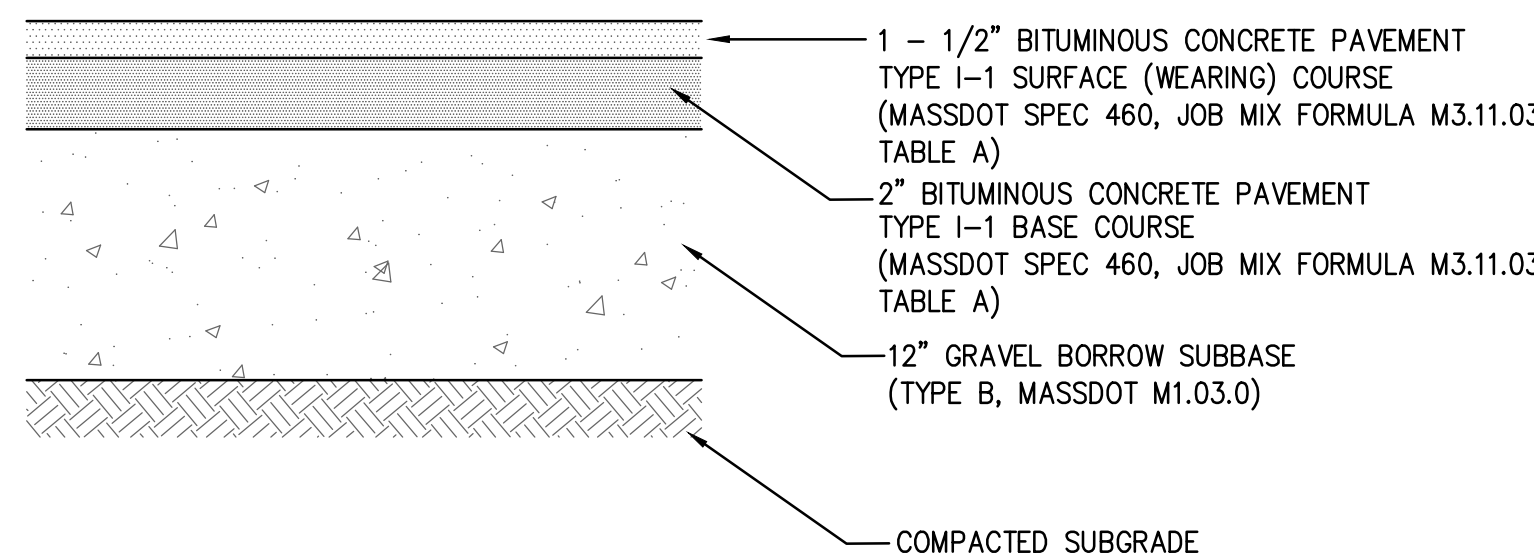
HANDICAP PARKING STALL DETAIL
SCALE: N.T.S.



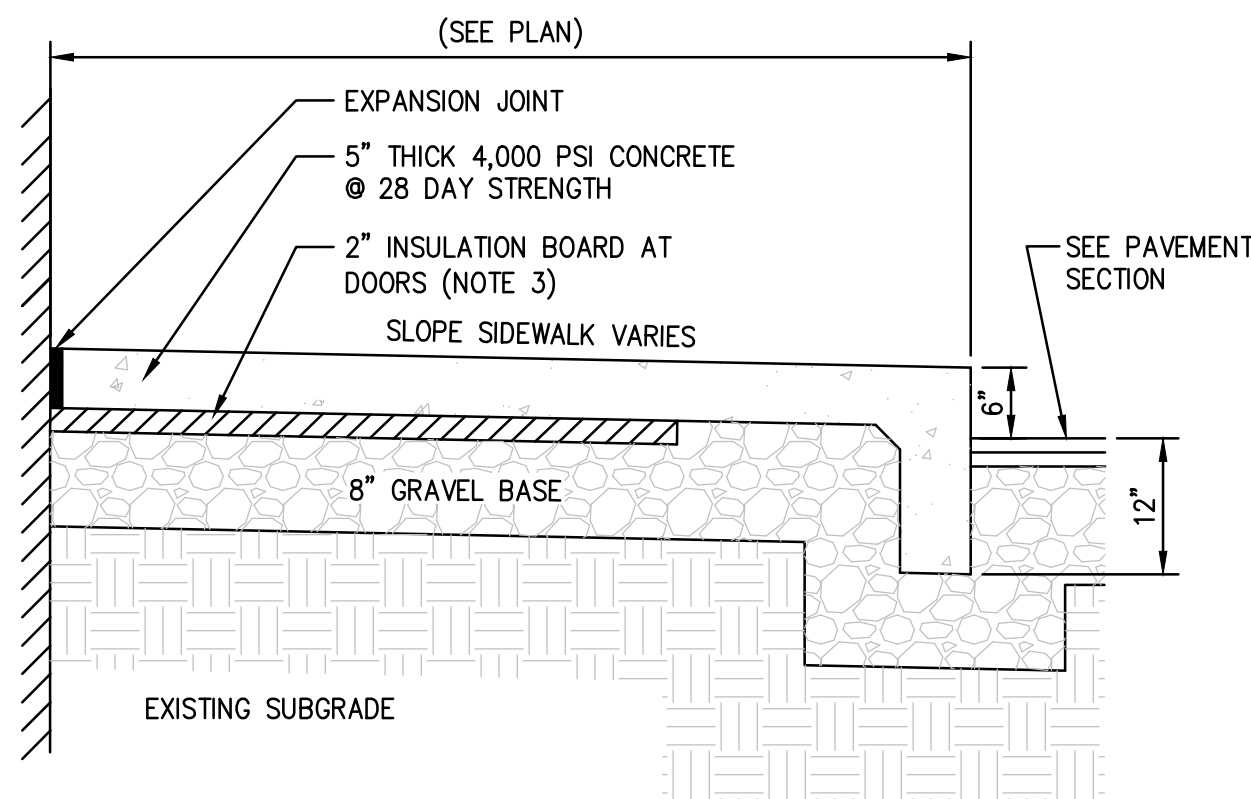
PAINTED HANDICAP SYMBOL DETAIL
SCALE: N.T.S.



PARKING AREA PAVEMENT DETAIL
SCALE: N.T.S.

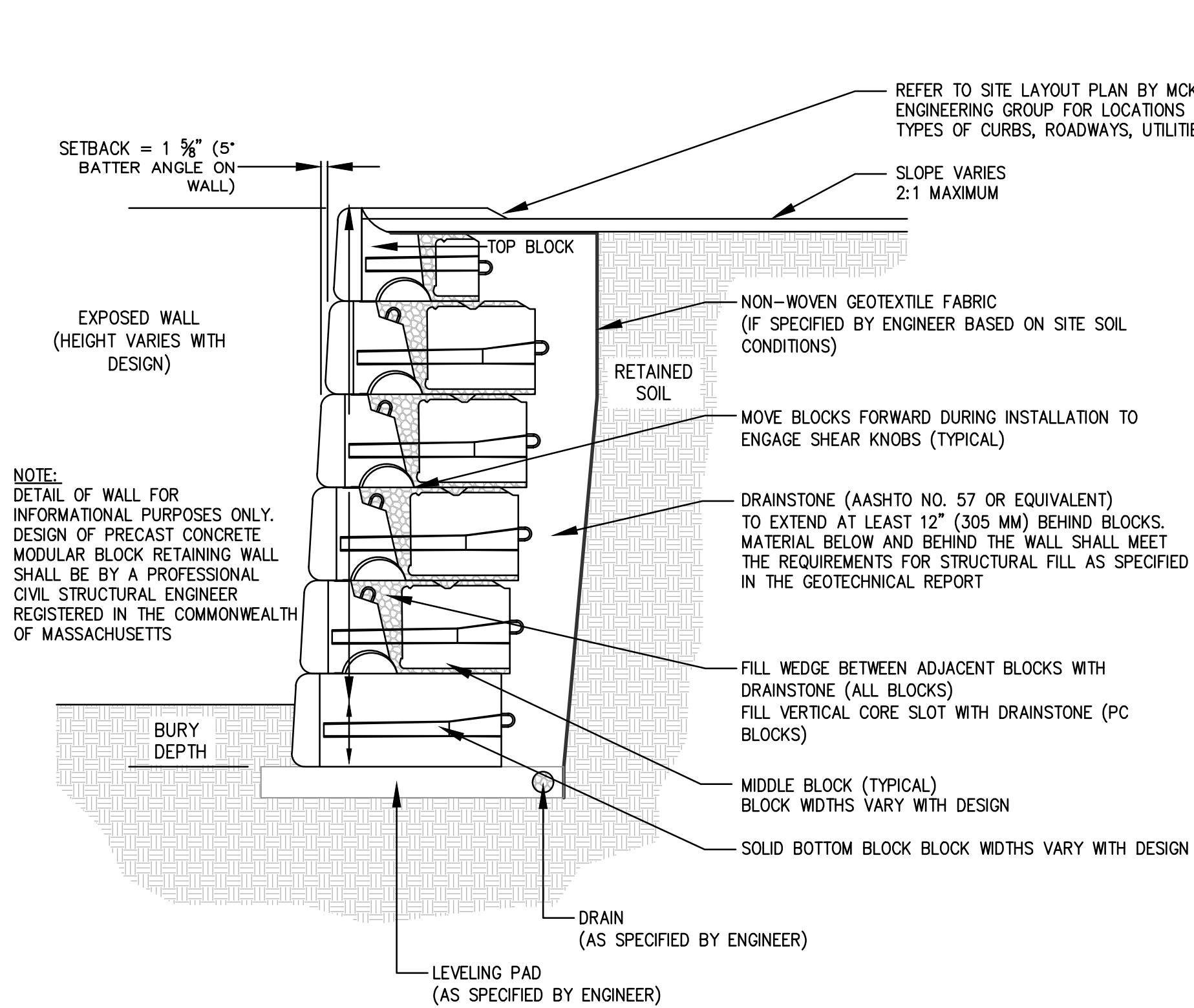


PARKING AREA PAVEMENT DETAIL
SCALE: N.T.S.

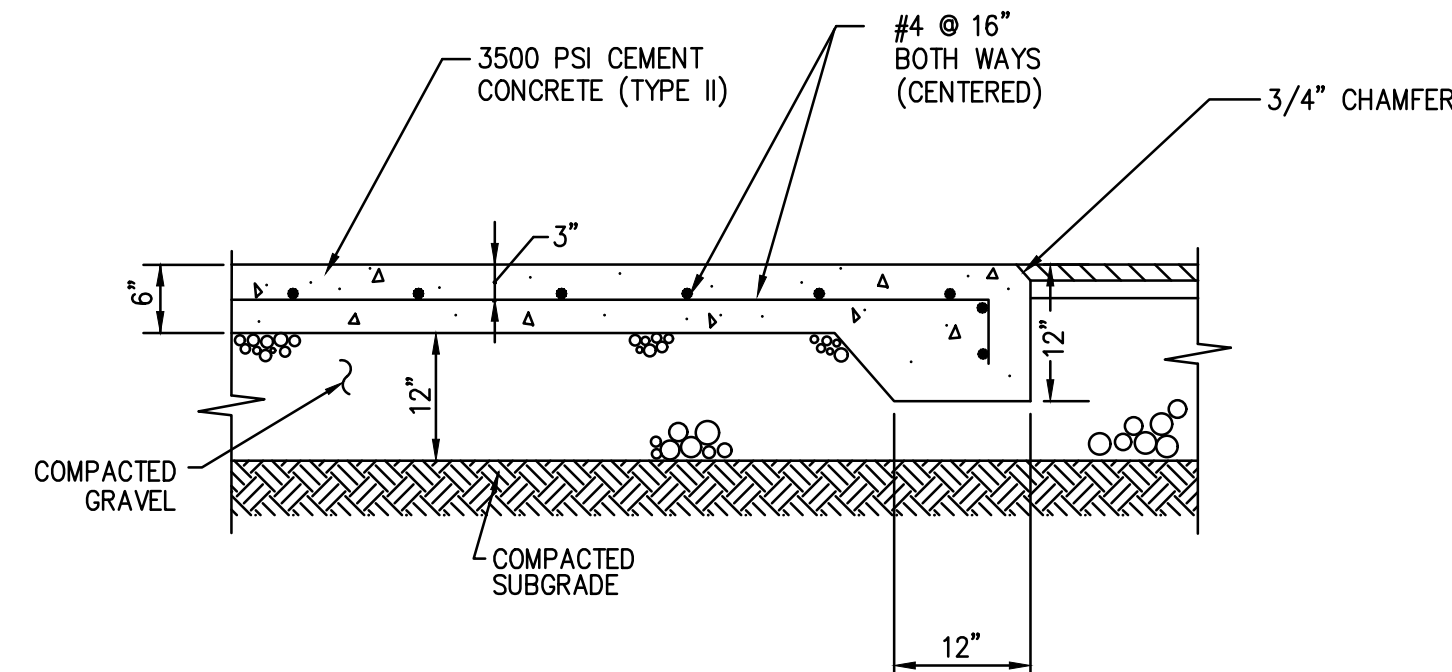


- NOTES:**
1. SIDEWALK TO HAVE TOOLED JOINTS 5' O.C. (TYP.) WITH EXPANSION JOINTS 15' ON CENTER AND PREMOLDED FILLER
 2. TOOLED JOINT 6" FROM FACE OF CURB
 3. PLACE 2" RIGID EXTRUDED STYROFOAM NONEXPANDABLE INSULATION BOARD LIGHT BLUE IN COLOR AT DOORS. DOORS TO BE PLACED IN 2'-2 1/2" SECTIONS CENTERED ON AND EXTENDING 4" PERPENDICULAR FROM DOOR. BASE MATERIAL SHALL BE CRUSHED STONE AT DOORS.
 4. SEE PLAN FOR ELEVATIONS AT DOORS AND CURB

CONCRETE SIDEWALK AND MONOLITHIC CURB AT BUILDING
SCALE: N.T.S.

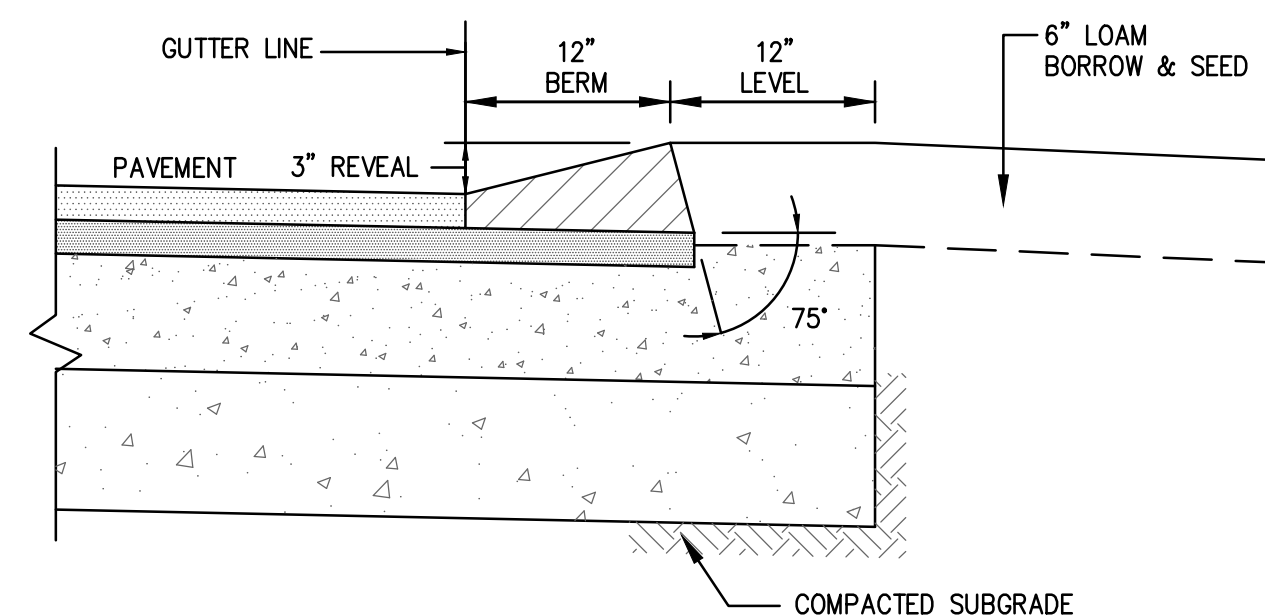


MODULAR BLOCK GRAVITY RETAINING WALL
SCALE: N.T.S.



- NOTES:
1. SIZE OF PAD TO BE AS INDICATED ON PLANS.
CONSTRUCTION JOINTS TO BE SET AT INTERVALS OF 1/3 OF LENGTH.

CEMENT CONCRETE PAD DETAIL
SCALE: N.T.S.



MONOLITHIC BITUMINOUS CONCRETE BERM (CAPE COD BERM) DETAIL
SCALE: N.T.S.

[illegible]

SITE DEVELOPMENT PLANS

(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:



APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

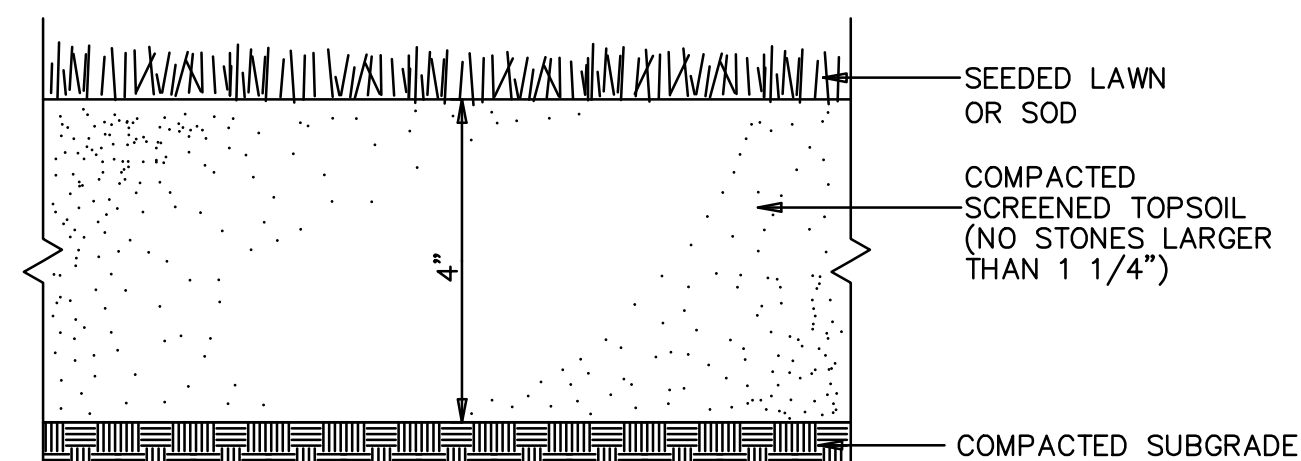
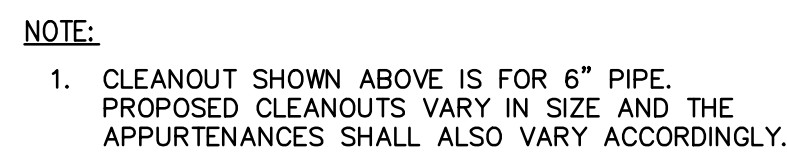
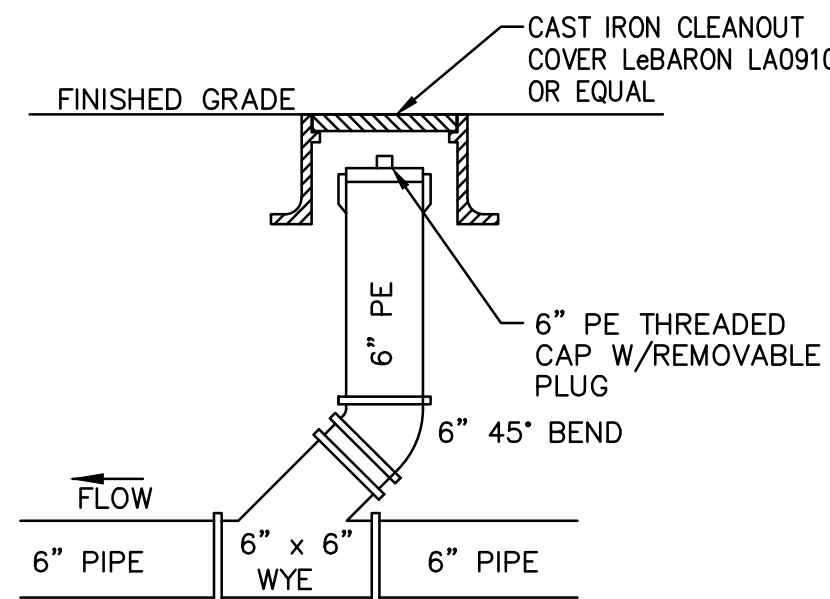
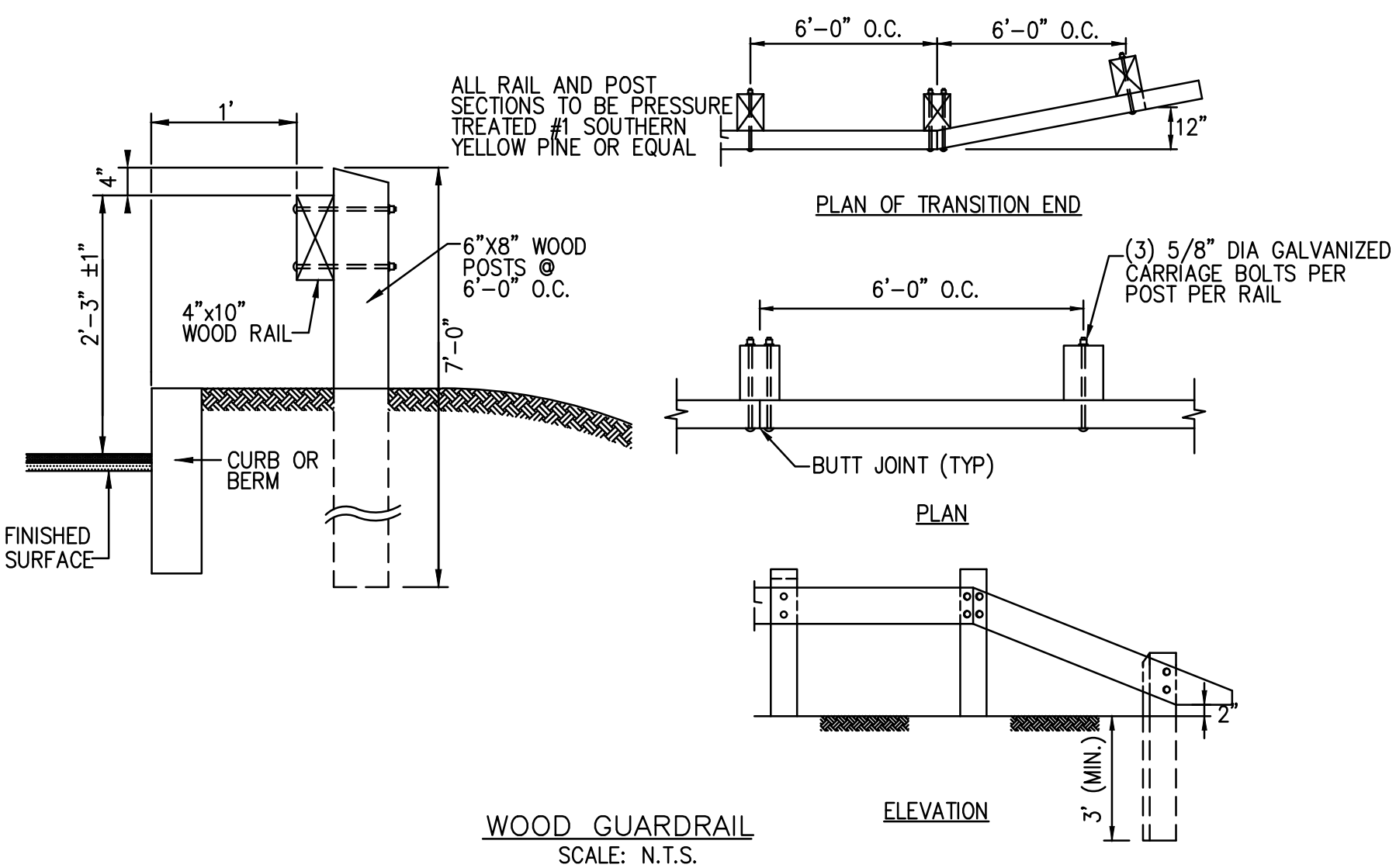
DRAWN BY:	ESS
DESIGNED BY:	ESS
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	NOVEMBER 16, 2020
SCALE:	
PROJECT NO.:	218-102
DWG. TITLE:	

CONSTRUCTION DETAILS

DWG. NO:

D-2

PERMIT PLAN SET



NOTE:
LOAM & SEED MATERIAL SHALL CONFORM TO MASSDOT MATERIAL SPECIFICATIONS
M1.05.0, M1.07.0, M1.08.1, AND CONSTRUCTION METHODS 751.80 TO 751.83

SEEDS OR SODDED LAWN DETAIL
SCALE: N.T.S.

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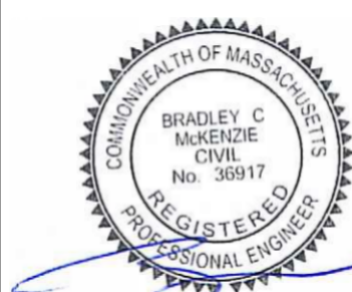
- ### NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
 5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)



SITE DEVELOPMENT PLANS

(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER



APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

PERMIT PLAN SET

DRAWN BY:	ESS
DESIGNED BY:	ESS
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 13, 2022
SCALE:	
PROJECT NO.:	218-102
DWG. TITLE:	

CONSTRUCTION DETAILS

DWG. NO:

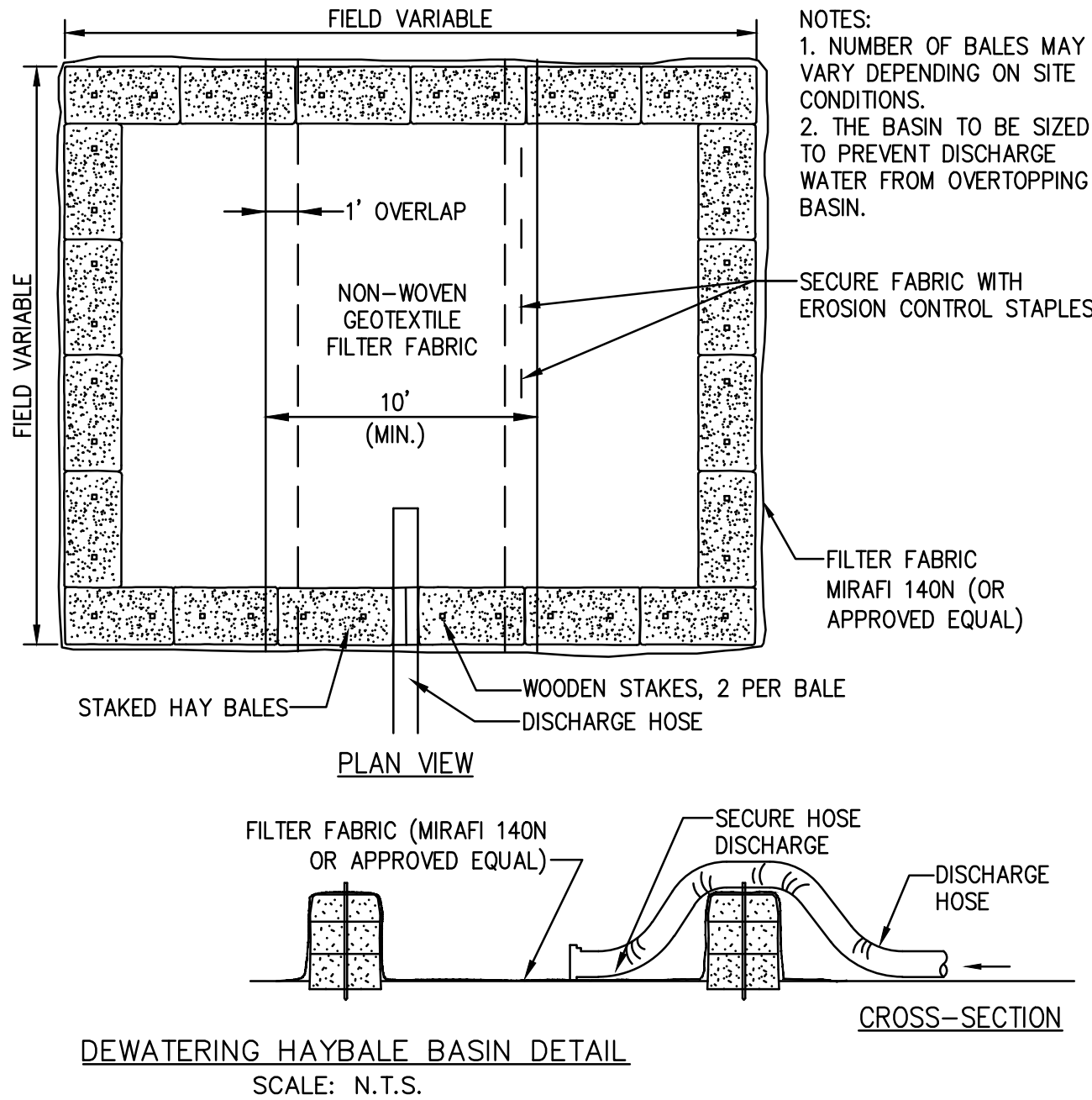
D-3

M:\MFG\2018 PROJECTS\218-102.DWG - 85 YARD WITH STREET LIGHTS SITE LAYOUT.DWG

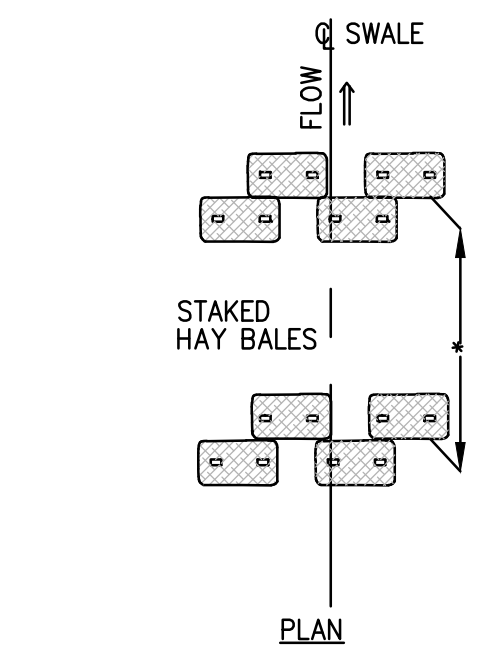
D-4

EROSION AND SEDIMENTATION CONTROL

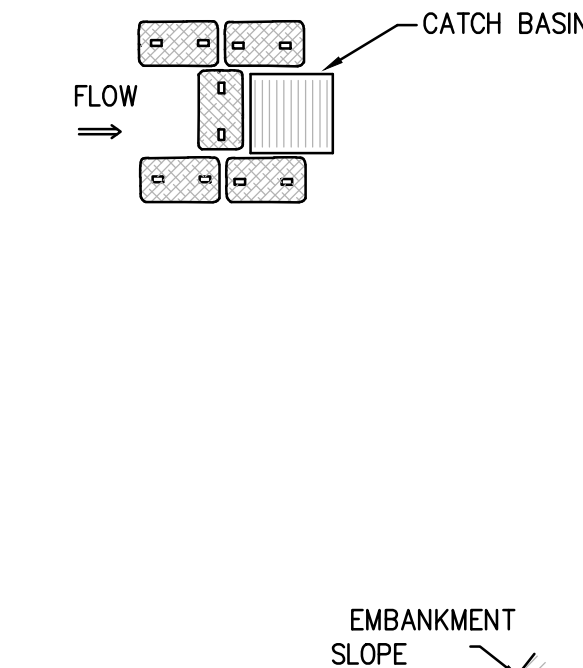
1. WIDELY ACCEPTED PRACTICES FOR REDUCING EROSION AND SEDIMENTATION WILL BE EMPLOYED IN THE DEVELOPMENT OF THIS SITE.
2. THE DEVELOPMENT OF THE SITE HAS BEEN PLANNED TO ENHANCE THE EXISTING TOPOGRAPHY AND VEGETATIVE COVER. ALL NATURAL DRAINAGE PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
3. STEEP SLOPES, WHERE POSSIBLE, WILL NOT BE DISTURBED.
4. NATURAL WATERWAYS WILL BE PRESERVED AND PROTECTED, AND EXISTING VEGETATION WILL BE RETAINED AND PROTECTED TO THE EXTENT POSSIBLE.
5. THE ROADWAY CONFORMS TO EXISTING LAND CONTOURS WHERE PRACTICAL.
6. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED LAND TO THE EXTENT FEASIBLE.
7. SEDIMENT CONTROL MEASURES WILL BE APPLIED TO CONTROL ANY SEDIMENTS THAT MAY BE PRODUCED AS A RESULT OF SITE CONSTRUCTION ACTIVITIES. EROSION AND DEPOSITION OF SEDIMENT WILL BE CLOSELY MONITORED DURING CONSTRUCTION.
8. TEMPORARY EROSION CONTROL MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, HAY BALE CHECK DAMS, SEDIMENT FOREBAYS, STABILIZED CONSTRUCTION ENTRANCES, FILTER FABRIC SILT FENCES, SEEDING AND MULCHING, AND SEEDED FILTER STRIPS.
9. TOPSOIL STRIPPED FROM CUT AND FILL AREAS WILL BE STOCKPILED FOR LOAMING AND SEEDING AT LATER CONSTRUCTION STAGES. THE STOCKPILES SHALL BE LOCATED SO AS TO ACT AS TEMPORARY DIVERSIONS, GENERALLY ON THE UPHILL SLOPE.
10. ALL CUT AREAS LOCATED AT TOES OF SLOPES AND DITCHES THAT HAVE GRADES EXCEEDING 5% SHALL BE STABILIZED WITH RIP-RAP. THE RIP-RAP SHALL CONSIST OF 50% STONES GREATER THAN 6" IN SIZE. SWALES SHALL BE 6" IN DEPTH AND APPROXIMATELY 5' IN WIDTH. ALL SLOPES WILL BE BLENDED INTO THE EXISTING TOPOGRAPHY TO MINIMIZE IMPACT.
11. SITE DEVELOPMENT WILL NOT COMMENCE UNTIL ALL TEMPORARY EROSION CONTROL MEASURES ARE IN PLACE. THESE MEASURES SHALL BE EMPLOYED UNTIL FINAL PAVING AND ADEQUATE VEGETATION HAS BEEN ESTABLISHED.
12. REFER TO CONSTRUCTION PHASE BEST MANAGEMENT PRACTICES AS SPECIFIED IN "BEST MANAGEMENT PRACTICES OPERATION AND MAINTENANCE PLAN" PREPARED BY MCKENZIE ENGINEERING GROUP, INC. FOR STRUCTURAL STABILIZATION AND DUST CONTROL EROSION AND SEDIMENTATION CONTROL MEASURES.
13. STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESTH), MULCHING, AND PERMANANT SEEDING.



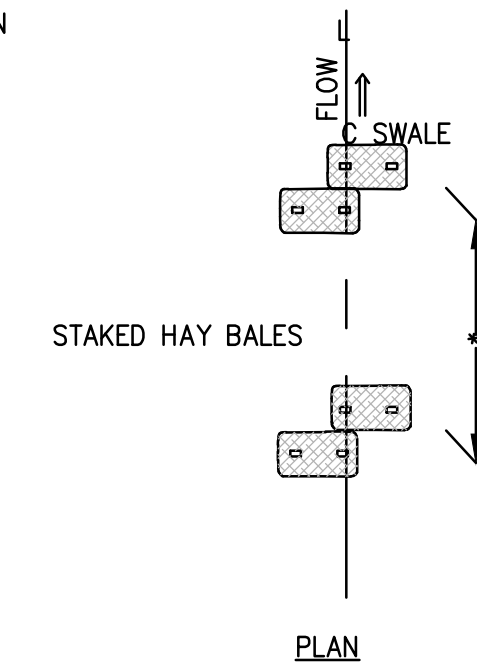
NOTE:
TO BE USED IN LOCATIONS WHERE EXIST. GROUND SLOPES IN TOWARD THE TOE OF THE EMBANKMENT. OR IN WIDE DITCHES.



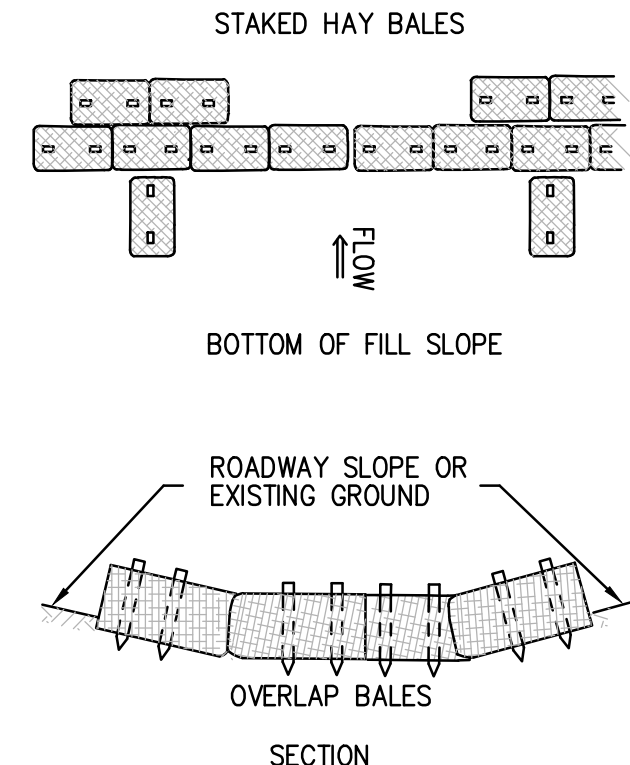
NOTE:
TO BE USED AROUND CATCH BASINS.



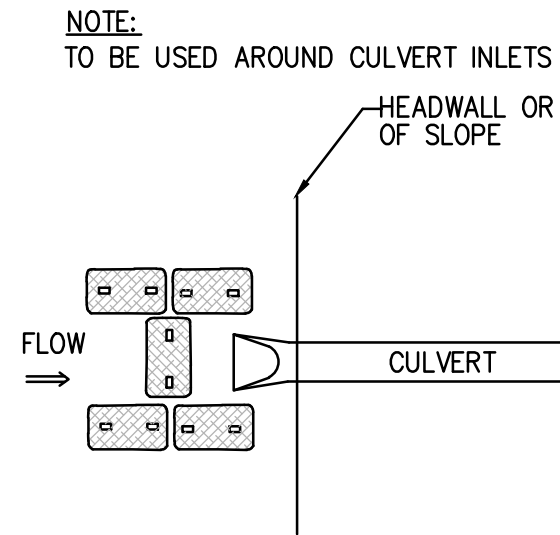
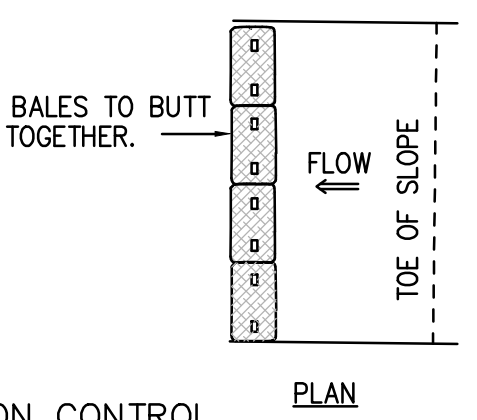
NOTE:
TO BE USED IN LOCATIONS WHERE EXIST. GROUND SLOPES IN TOWARD THE TOE OF THE EMBANKMENT. OR IN NARROW DITCHES.



NOTE:
TO BE USED AT BOTTOM OF FILL SLOPE WHERE HEAVY FLOW MAY BE ANTICIPATED

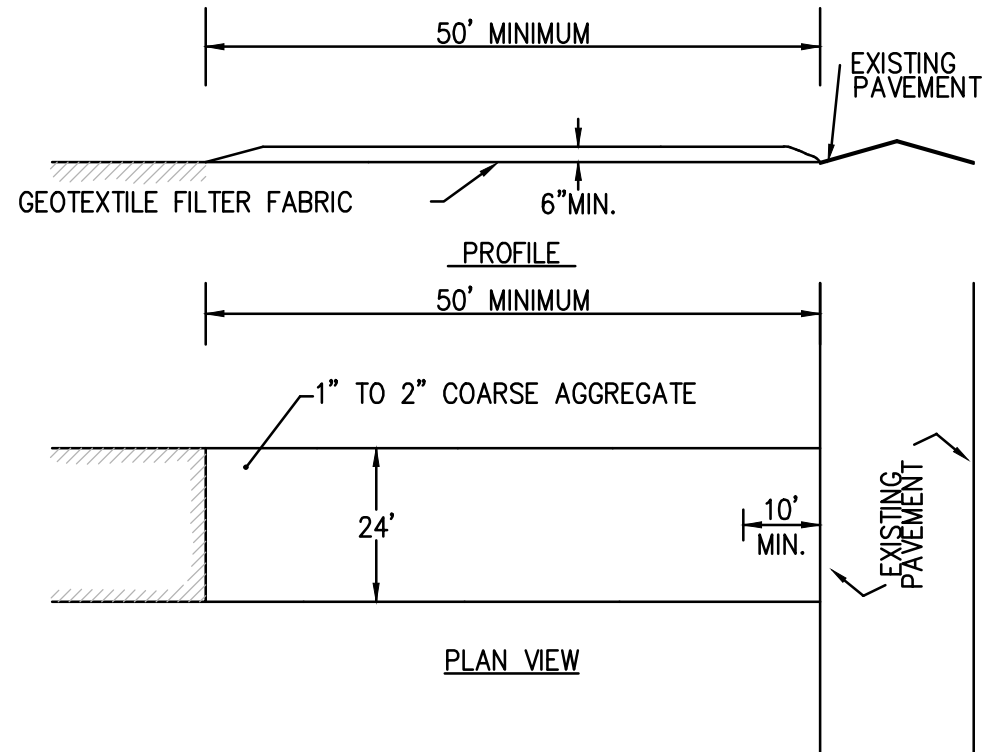


NOTE:
TO BE USED WHERE EXIST. GROUND SLOPES AWAY FROM THE TOE OF THE EMBANKMENT.



*- VARIES DEPENDING ON HEIGHT OF SLOPE AND STEEPNESS OF RESULTING GRADES AT TOE OF SLOPE EXIST. GROUND INTERSECTION.

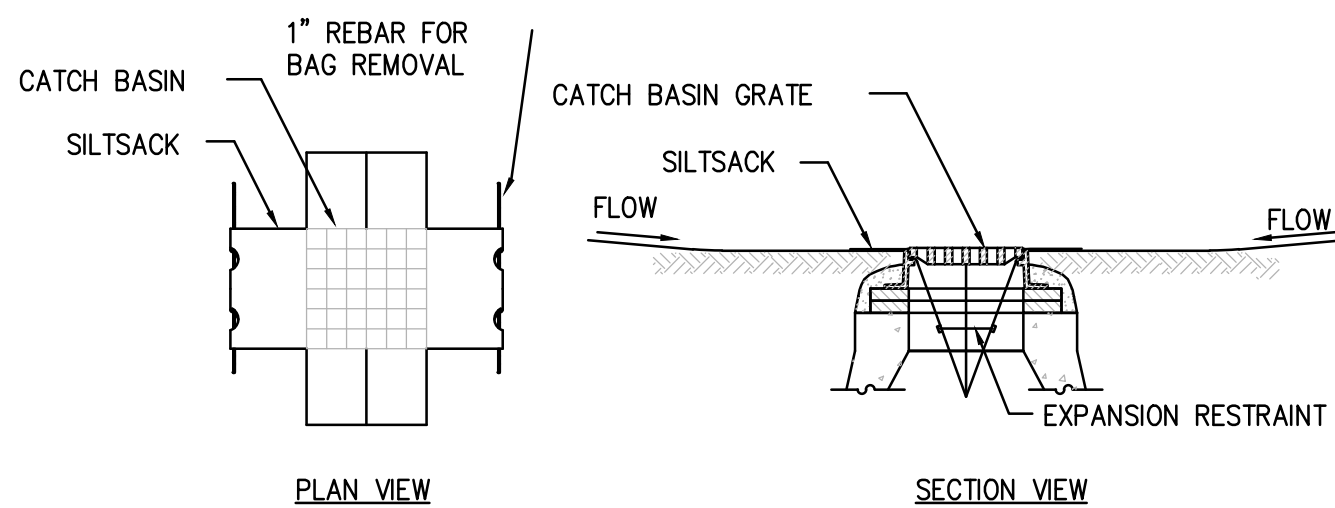
TEMPORARY EROSION CONTROL SCALE: N.T.S.



(SCE) CONSTRUCTION SPECIFICATIONS:

1. STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN A FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DEVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.

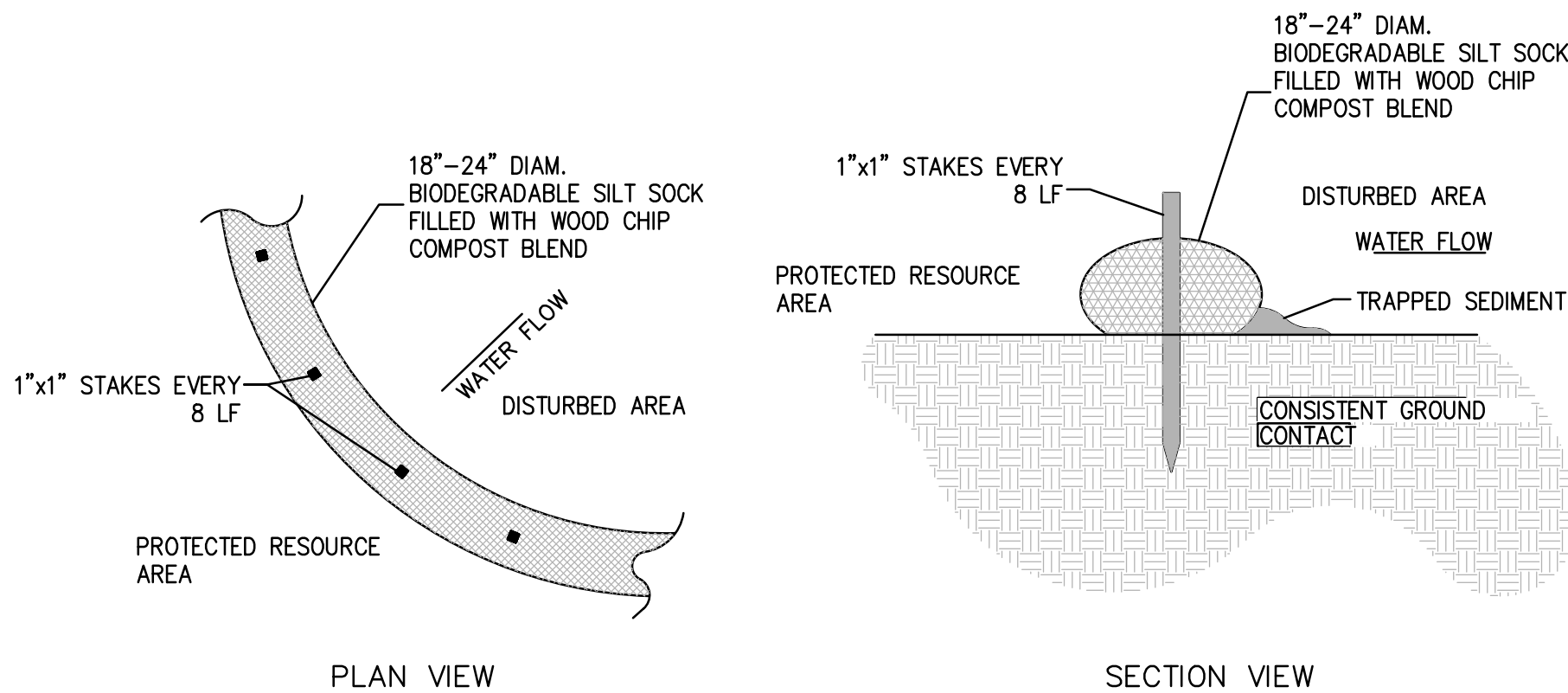
STABILIZED CONSTRUCTION ENTRANCE (SCE) DETAIL SCALE: N.T.S.



SILT SACK SEDIMENT TRAP CONSTRUCTION NOTES:

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

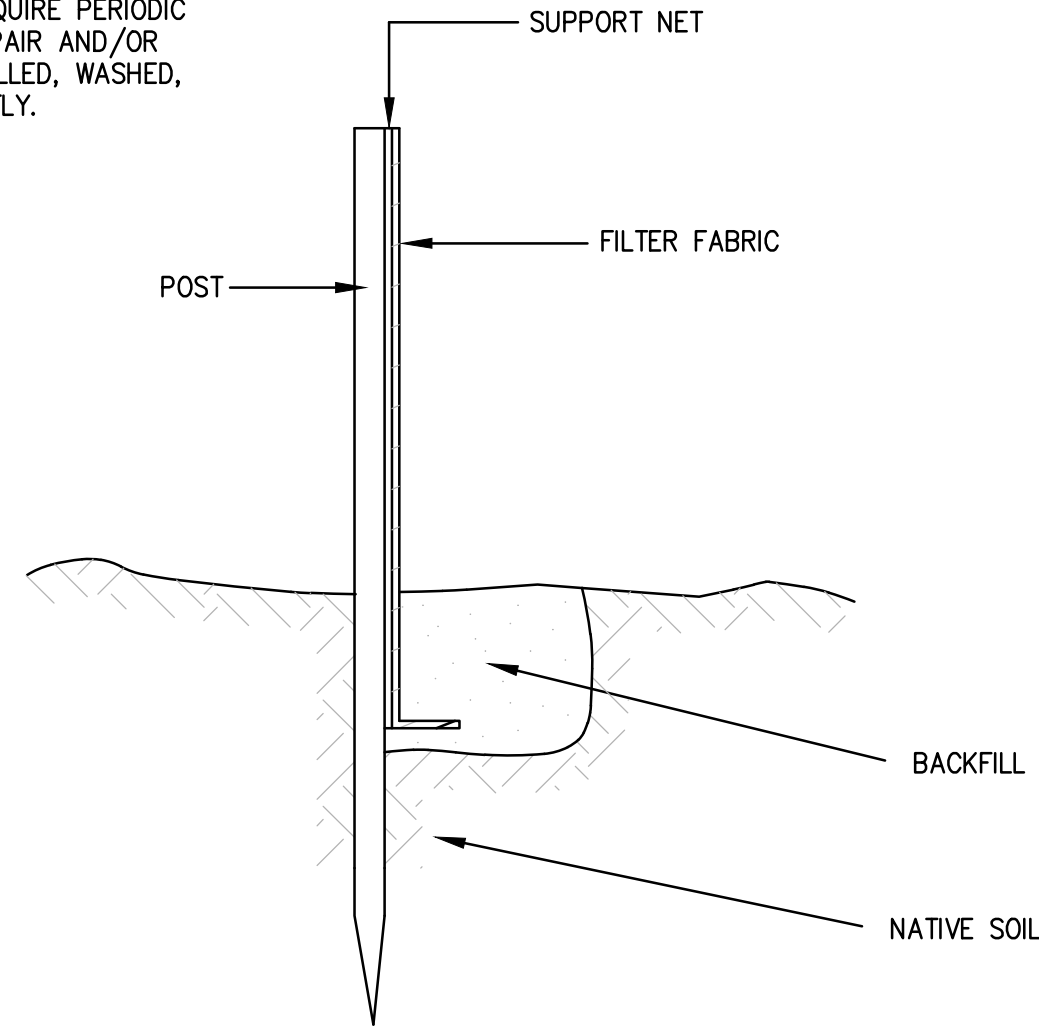
SILT SACK SEDIMENT TRAP SCALE: N.T.S.



CONSTRUCTION NOTES:

- 1) SILT SOCKS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING OR LAPPING THE ADJACENT SECTIONS.
- 2) SILT SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN EVERY 8 LF.
- 3) INSPECTION SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
- 4) SILT SOCKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

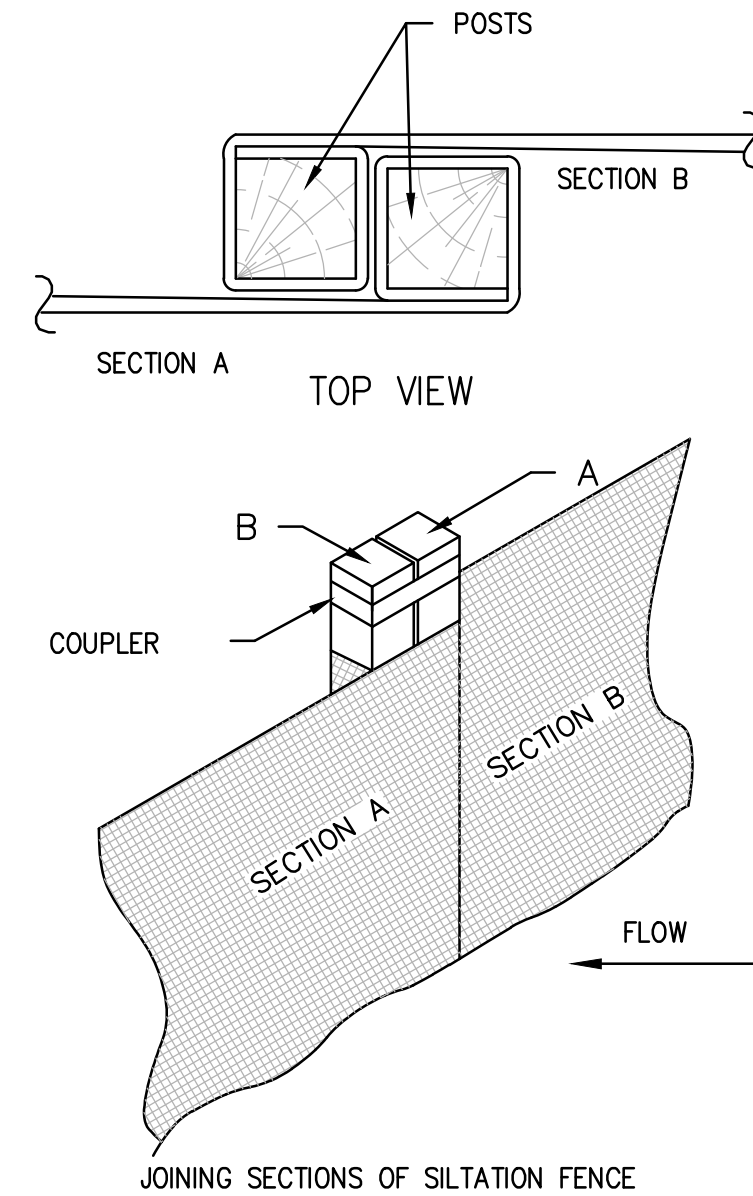
SILT SOCK DETAIL SCALE: N.T.S.



CONSTRUCTION NOTES:

- 1) WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2) FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- 3) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
- 4) MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILTATION FENCE SCALE: N.T.S.



NOTES:

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

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REV	DATE	DESCRIPTION	BY	APP
1	9/19/22	BUILDING ADDITION	ESS	BCM
2	11/30/22	DRAINAGE REVISION	ESS	BCM
3	1/20/23	DRAINAGE REVISION	ESS	BCM



SITE DEVELOPMENT PLANS

(FORMERLY APN'S 3-1, 3-1A, PORTION OF 3-2, 8-27 & 8-28)
343 & 333 WEYMOUTH STREET
ROCKLAND, MASSACHUSETTS

PROFESSIONAL ENGINEER:



APPLICANT:
DTC, LLC
333 WEYMOUTH ST.
ROCKLAND, MA 02370

DRAWN BY:	ESS
DESIGNED BY:	ESS
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 13, 2022
SCALE:	
PROJECT NO.:	218-102
DWG. TITLE:	

CONSTRUCTION DETAILS

DWG. NO:

D-5

PERMIT PLAN SET