

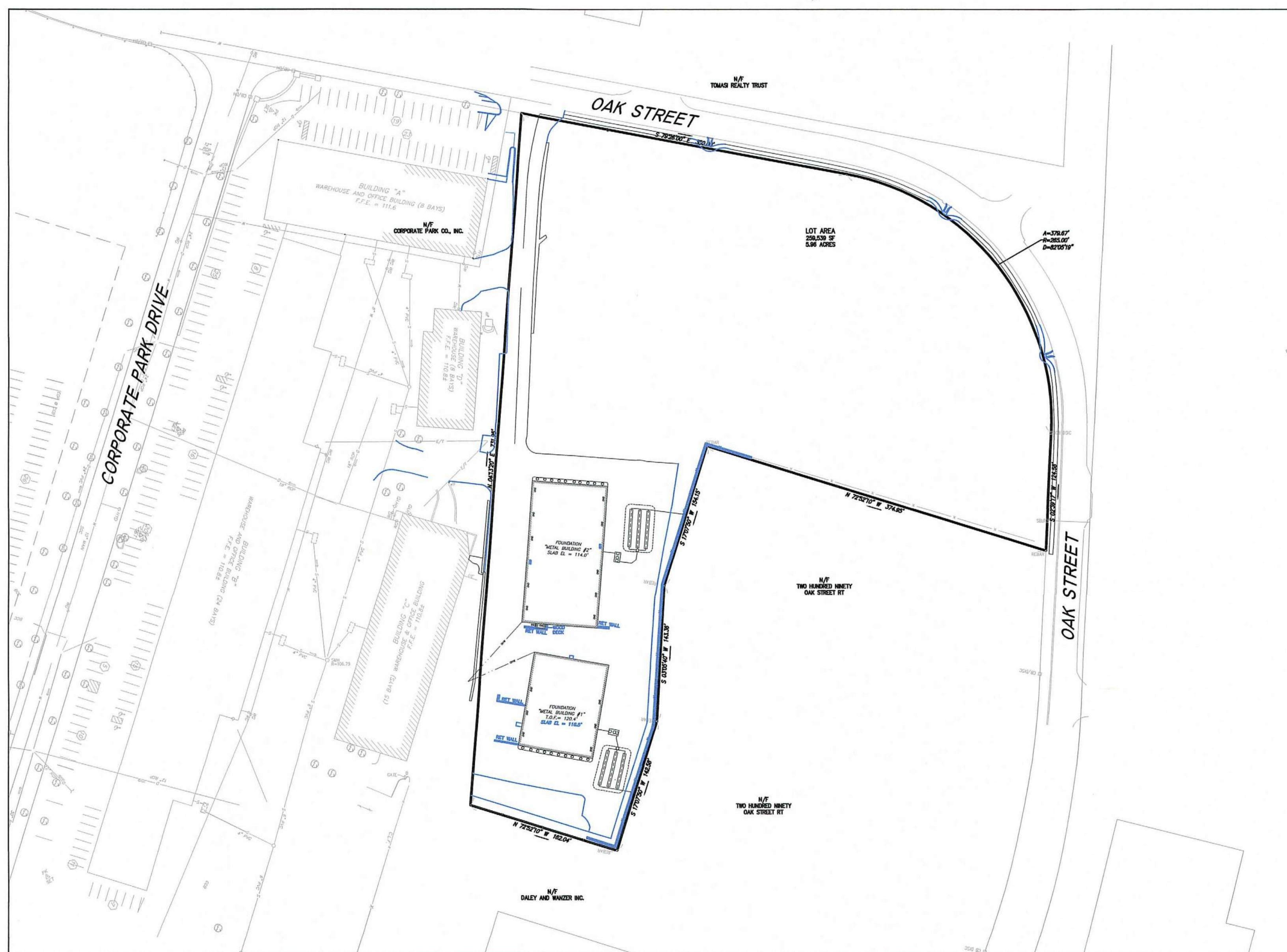
Locus Map
Not to Scale



SITE DEVELOPMENT PLAN PHASE I 260-280 OAK STREET PEMBROKE, MA

Drawing Index:

No.	Drawing Title
CS-1	COVER SHEET
EX-1	EXISTING CONDITIONS PLAN
C-1	SITE LAYOUT PLAN
C-2	GRADING & UTILITY PLAN
C-3-C-5	CONSTRUCTION DETAILS
C-6	EROSION CONTROL PLAN
L-1	LANDSCAPE PLAN
I-1-I-5	OAK STREET INTERSECTION PLAN



SCALE: 1" = 60'

Issued Date: March 22, 2017

Revised:

June 6, 2017

June 13, 2017

June 14, 2018

July 30, 2018

October 18, 2019

December 10, 2019

March 4, 2020

McKenzie Engineering Group, Inc. Consulting Engineers

150 Longwater Drive, Suite 101, Norwell, Massachusetts 02061

BLUE HIGHLIGHTED ITEMS REFLECT EXISTING SITE CONDITIONS THAT ARE MODIFICATIONS FROM THE SITE PLAN APPROVAL

SITE PLAN APPROVAL

DATE OF APPLICATION: _____

DATE OF HEARING: _____

DATE OF APPROVAL: _____

DATE OF ENDORSEMENT: _____

PEMBROKE PLANNING BOARD

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE PEMBROKE ZONING BY-LAW.

I, _____, TOWN CLERK OF THE TOWN OF PEMBROKE, MA, HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE NEXT TWENTY DAYS AFTER RECEIPT AND RECORDING OF SAID NOTICE.

DATE _____ TOWN CLERK _____

List of Waivers Requested from the Planning Board Rules & Regulations Governing The Issuance of Site Plan Approval Town of Pembroke, Massachusetts August 29, 2005

SECTION IV. SITE PLAN CONTENT

4.7 REQUIREMENT OF A LANDSCAPING PLAN.

IN LIEU OF THE REQUIREMENT OF A LANDSCAPING PLAN, THE PROJECT PROPONENT HAS AGREED TO PROVIDE A LANDSCAPED BUFFER BETWEEN THE PROPOSED PARKING LOT AND THE ABUTTING PROPERTY AND A 4-FOOT LANDSCAPED STRIP ALONG THE NORTHERN FOUNDATION WALL OF BUILDING NO. 2 AND ALONG THE SOUTHERN FOUNDATION WALL OF BUILDING NO. 1. NO LANDSCAPING IS PROPOSED BETWEEN THE TWO BUILDINGS.

4.15 REQUIREMENT OF A DEVELOPMENT IMPACT STATEMENT.

ALTHOUGH THE PROPOSED PROJECT EXCEEDS THE THRESHOLD OF 5,000 OR MORE SQUARE FEET OF FLOOR AREA OR THREE OR MORE ACRES OF LAND AREA WHICH INITIATES THE REQUIREMENT OF A DEVELOPMENT IMPACT STATEMENT UNDER SECTION VI OF THE PLANNING BOARD RULES AND REGULATIONS GOVERNING THE ISSUANCE OF SITE PLAN APPROVAL, THE PROPONENT REQUESTS A WAIVER OF THIS REQUIREMENT AS THE DEVELOPMENT OF THE SUBJECT PARCEL WILL BE IN TWO PHASES. PHASE I WILL DEVELOP APPROXIMATELY 1.7 ACRES OF LAND LOCATED AT THE SOUTHERN PORTION OF THE SITE AND FUTURE PHASE II WILL DEVELOP THE REMAINING 4.26 ACRES. A DEVELOPMENT IMPACT STATEMENT WILL BE PREPARED FOR THE PHASE II SITE PLAN APPROVAL WHICH WILL BE INCLUSIVE OF THE ENTIRE SITE.

4.21 REQUIREMENT OF A PHOTOMETRIC PLAN.

IN LIEU OF ADDRESSING THE REQUIREMENT OF A PHOTOMETRIC PLAN, THE PROJECT PROPONENT IS PROPOSING INDIVIDUAL WALL PACK LIGHTING FOR EACH UNIT, WHICH SERVES TO PROVIDE ADEQUATE SITE LIGHTING.

4.22 REQUIREMENT OF A TRAFFIC IMPACT STUDY.

THE PROPONENT REQUESTS A WAIVER OF THIS REQUIREMENT AS THE DEVELOPMENT OF THE SUBJECT PARCEL WILL BE IN TWO PHASES. PHASE I WILL DEVELOP APPROXIMATELY 1.7 ACRES OF LAND LOCATED AT THE SOUTHERN PORTION OF THE SITE AND FUTURE PHASE II WILL DEVELOP THE REMAINING 4.26 ACRES. A TRAFFIC IMPACT STUDY WILL BE PREPARED FOR THE PHASE II SITE PLAN APPROVAL WHICH WILL BE INCLUSIVE OF THE ENTIRE SITE.

SECTION V. REQUIREMENTS

5.1 REQUIREMENT OF SITE LANDSCAPING.

IN LIEU OF ADDRESSING EACH OF THE SPECIFIC REQUIREMENTS UNDER SECTION 5.1, THE PROJECT PROPONENT HAS AGREED TO PROVIDE A LANDSCAPED BUFFER BETWEEN THE PROPOSED PARKING LOT AND THE ABUTTING PROPERTY AND A 4-FOOT LANDSCAPED STRIP ALONG THE NORTHERN FOUNDATION WALL OF BUILDING NO. 2 AND ALONG THE SOUTHERN FOUNDATION WALL OF BUILDING NO. 1. NO LANDSCAPING IS PROPOSED BETWEEN THE TWO BUILDINGS.

5.2 REQUIREMENT OF SITE LIGHTING.

IN LIEU OF ADDRESSING EACH OF THE SPECIFIC REQUIREMENTS UNDER SECTION 5.2, THE APPLICANT IS PROPOSING INDIVIDUAL WALL PACK LIGHTING FOR EACH UNIT, WHICH SERVES TO PROVIDE ADEQUATE SITE LIGHTING.

5.6.2 CURBING SHALL NOT BE BITUMINOUS CONCRETE.

THE APPLICANT IS PROPOSING A 12-INCH WIDE BITUMINOUS CONCRETE CAPE COD BERM.

SECTION VI. DEVELOPMENT IMPACT STATEMENT

ALTHOUGH THE PROPOSED PROJECT EXCEEDS THE THRESHOLD OF 5,000 OR MORE SQUARE FEET OF FLOOR AREA OR THREE OR MORE ACRES OF LAND AREA WHICH INITIATES THE REQUIREMENT OF A DEVELOPMENT IMPACT STATEMENT UNDER SECTION VI OF THE PLANNING BOARD RULES AND REGULATIONS GOVERNING THE ISSUANCE OF SITE PLAN APPROVAL, THE PROPONENT REQUESTS A WAIVER OF THIS REQUIREMENT AS THE DEVELOPMENT OF THE SUBJECT PARCEL WILL BE IN TWO PHASES. PHASE I WILL DEVELOP APPROXIMATELY 1.7 ACRES OF LAND LOCATED AT THE SOUTHERN PORTION OF THE SITE AND FUTURE PHASE II WILL DEVELOP THE REMAINING 4.26 ACRES. A DEVELOPMENT IMPACT STATEMENT WILL BE PREPARED FOR THE PHASE II SITE PLAN APPROVAL WHICH WILL BE INCLUSIVE OF THE ENTIRE SITE.

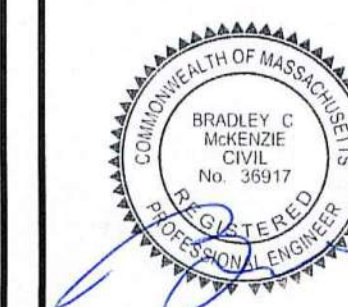
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REV	DATE	DESCRIPTION	BY	APP
1	6-6-17	PEER REVIEW COMMENTS	SBS	BCM
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6	12-10-19	PEER REVIEW COMMENTS	SBS	BCM
7	1-27-2020	NO CHANGES	SBS	BCM
8	3-4-2020	NO CHANGES	SBS	BCM

MG
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SITE DEVELOPMENT PLAN (PARCEL ID: G14-25F & G14-25G) 260-280 OAK STREET PEMBROKE, MASSACHUSETTS



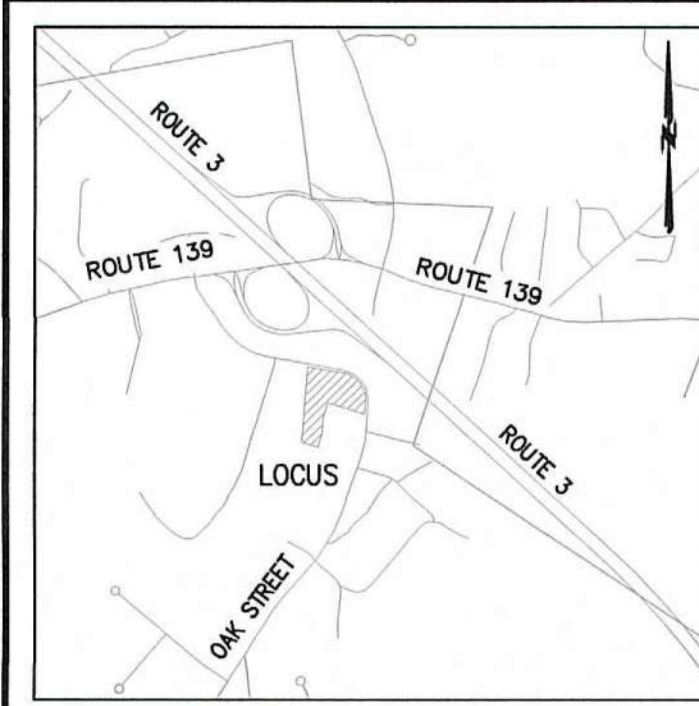
OWNER:
Grissom Park Co., LLP
293R Washington Street
Norwell, Massachusetts 02061

DRAWN BY: SBS
DESIGNED BY: --
CHECKED BY: --
APPROVED BY: BCM
DATE: June 6, 2017
SCALE: AS NOTED
PROJECT NO.: 215-105
DWG. TITLE:

Cover
Sheet
Phase I

DWG. NO.:
CS-1

PLAN MODIFICATION SET



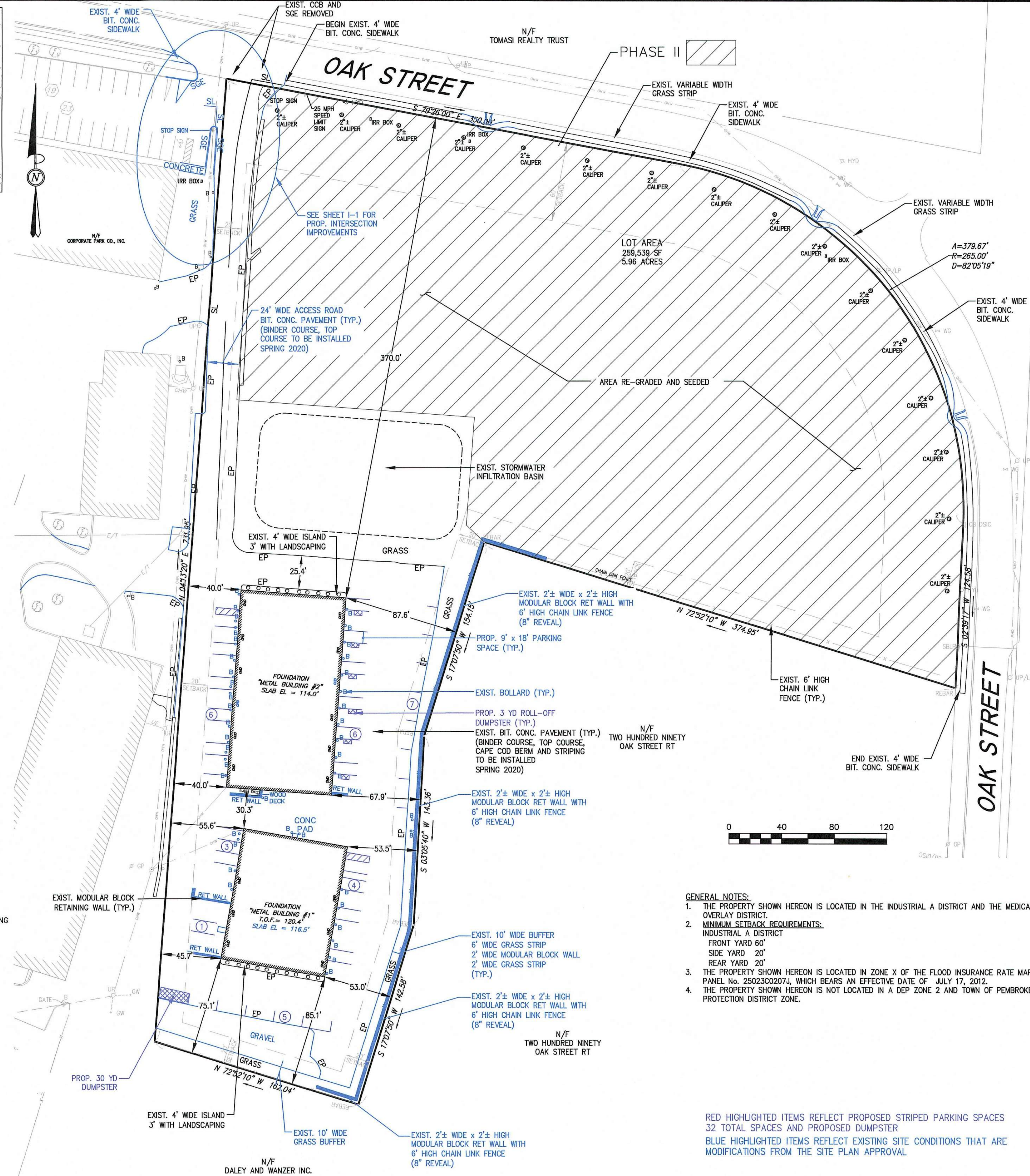
Locus Map
Not to Scale

LEGEND

SURVEY SYMBOLS	
•	REBAR
◊	ANGLE IRON
CB/DH	CONCRETE BOUND WITH DRILL HOLE
SB	STONE BOUND
SB/DH	STONE BOUND
UTILITY SYMBOLS	
CHIMNEY	CHIMNEY
ELECTRIC HAND HOLE	ELECTRIC HAND HOLE
GUY POLE	GUY POLE
HVAC UNIT	HVAC UNIT
BUILDING LIGHT W/MAST	BUILDING LIGHT W/MAST
BUILDING LIGHT	BUILDING LIGHT
TRANSFORMER	TRANSFORMER
WATER GATE	WATER GATE
EXHAUST VENT	EXHAUST VENT
AIR VENT	AIR VENT
DRAINAGE SUMP	DRAINAGE SUMP
EMH	ELECTRIC MANHOLE
SMH	SEWER MANHOLE
DMH	DRAIN MANHOLE
TMH	TELEPHONE MANHOLE
CBN	DRAINAGE CATCH BASIN
DOOR WAY THRESHOLD	DOOR WAY THRESHOLD
HYDRANT	HYDRANT
POST INDICATOR VALVE	POST INDICATOR VALVE
UTILITY POLE	UTILITY POLE
YARD LIGHT	YARD LIGHT
RIP RAP	RIP RAP
BOLLARD	BOLLARD
SIGN	SIGN
FIRE ALARM	FIRE ALARM
DECIDUOUS TREE	DECIDUOUS TREE
CONIFEROUS TREE	CONIFEROUS TREE
LINE DESIGNATORS	
—	WATER MAIN
—	HANDRAIL
—	JERSEY BARRIER
—	GUARD RAIL
—	RAILROAD TRACKS
—	OVERHEAD WIRES
—	GAS LINE
—	WATER SERVICE
—	UNDERGROUND ELECTRIC
—	STORM DRAIN LINE
—	SANITARY SEWER LINE
—	DRAINAGE SWALE
—	CHAIN LINK FENCE

ABBREVIATIONS

APPROX.	APPROXIMATELY
BCC	BITUMINOUS CONCRETE CURBING
BIT. CONC.	BITUMINOUS CONCRETE
CB	CATCH BASIN
CLF	CHAIN LINK FENCE
CO	CLEANOUT
CONC.	CONCRETE
CRW	CONCRETE RETAINING WALL
DUMP	DUMPSTER
ELEV.	ELEVATION
EOP	EDGE OF PAVEMENT
EXIST.	EXISTING
F.F.	FIRST FLOOR
FND	FOUND
(M)	MARKED
N/F	NOW OR FORMERLY
No.	NUMBER
O/H	OVERHANG
OHD	OVERHEAD DOOR
OHW	OVERHEAD WIRES
PROP.	PROPOSED
R	RIM
RD	ROAD
SMH	SEWER MANHOLE
T.O.F.	TOP OF FOUNDATION
TYP.	TYPICAL
UEM	UTILITY ELECTRIC METER
UP	UTILITY POLE
VGC	VERTICAL GRANITE CURB



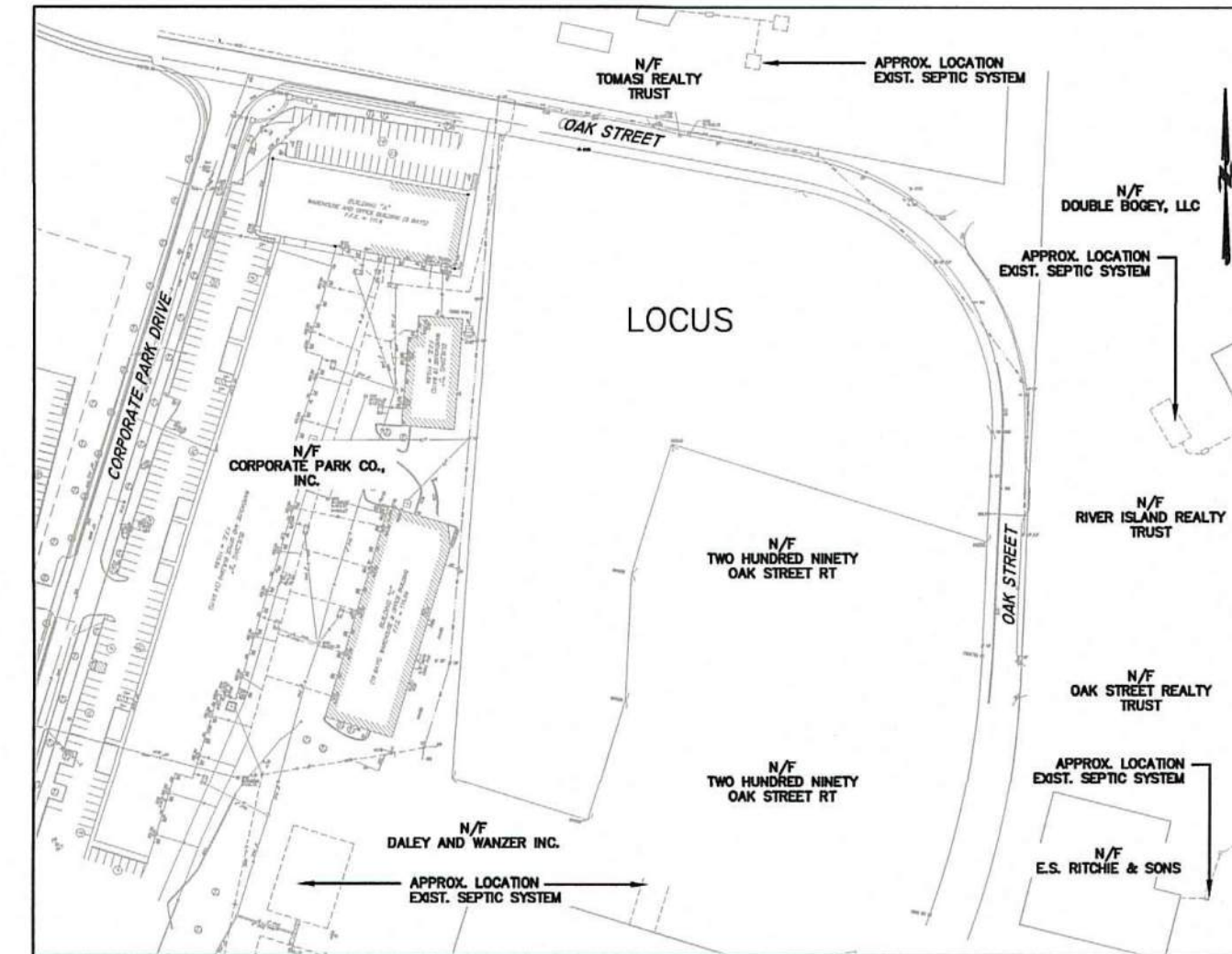
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DATE _____ TOWN CLERK

SITE PLAN APPROVAL

DATE OF APPLICATION: _____
DATE OF HEARING: _____
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PEMBROKE PLANNING BOARD
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Locus Map
1"=200'

LAND USAGE TABLES

INDUSTRIAL DISTRICT A			
CRITERIA	REQUIRED	EXISTING	PROPOSED
DIMENSIONAL CALCULATIONS:			
MINIMUM LOT AREA	80,000 S.F. 70,000 S.F. *	259,542± S.F. TOTAL 259,542± S.F. UPLAND	259,542± S.F. TOTAL 259,542± S.F. UPLAND
MINIMUM LOT FRONTAGE	200 FT.	854.25 FT.	854.25 FT.
MINIMUM FRONT YARD	60 FT.	---	370 FT. TO BLDG
MINIMUM SIDE YARD	20 FT.	---	40 FT. TO BLDG
MINIMUM REAR YARD	20 FT.	---	75.1 FT. TO BLDG
MAXIMUM BUILDING HEIGHT	4 STORIES	---	1 STORY
MINIMUM LOT WIDTH	135 FT.	---	162 FT.

*EXCLUSIVE OF ALL EASEMENTS, CRANBERRY BOGS, WETLANDS, FLOODPLAINS AND WATERSHED AREAS.
**NO BUILDING OR STRUCTURE SHALL BE PLACED WITHIN 150 FT OF RESIDENCE DISTRICT A OR WITHIN 150 FT OF ANY EXISTING RESIDENTIAL USE.

LOT COVERAGE CALCULATIONS (INDUSTRIAL DISTRICT A):			
MAXIMUM LOT COVERAGE	80%	0%	28.6%
MAX. BUILDING FLOOR AREA	45%	0%	7.7%

PARKING CALCULATIONS

SECTION IV.4. OF ZONING BYLAWS:

USE	REQUIRED	PROVIDED
INDUSTRIAL, MANUFACTURING AND WHOLESALE:	1 SPACE FOR EACH EMPLOYEE ON ANYONE SHIFT (DOES NOT INCLUDE LOADING AREA BAYS) 2 EMPLOYEES PER UNIT (15 TOTAL)	30 32*
		TOTAL 32* SPACES

*DOES NOT INCLUDE SPACE INSIDE BUILDINGS

ACCESSIBLE PARKING NOTES:

- 32 TOTAL SPACES INCLUDES 1 ADA ACCESSIBLE SPACE 8'-0" X 18'-0" WITH 8'-0" X 18'-0" ACCESS AREA (VAN ACCESSIBLE SPACE)
(521 CMR: ARCHITECTURAL ACCESS BOARD) ACCESSIBLE SPACES REQUIRED = 2 (26-50 SPACES)

GENERAL NOTES:

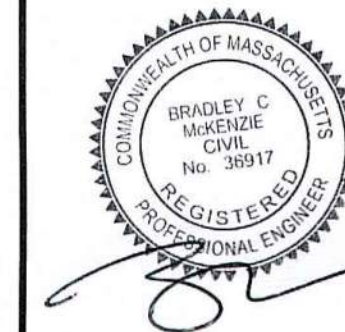
- THE PROPERTY SHOWN HEREON IS LOCATED IN THE INDUSTRIAL A DISTRICT AND THE MEDICAL MARIJUANA OVERLAY DISTRICT.
- MINIMUM SETBACK REQUIREMENTS:
INDUSTRIAL A DISTRICT
FRONT YARD 60'
SIDE YARD 20'
REAR YARD 20'
- THE PROPERTY SHOWN HEREON IS LOCATED IN ZONE X OF THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. 2502300207J, WHICH BEARS AN EFFECTIVE DATE OF JULY 17, 2012.
- THE PROPERTY SHOWN HEREON IS NOT LOCATED IN A DEP ZONE 2 AND TOWN OF PEMBROKE AQUIFER PROTECTION DISTRICT ZONE.

RED HIGHLIGHTED ITEMS REFLECT PROPOSED STRIPED PARKING SPACES
32 TOTAL SPACES AND PROPOSED DUMPSTER
BLUE HIGHLIGHTED ITEMS REFLECT EXISTING SITE CONDITIONS THAT ARE MODIFICATIONS FROM THE SITE PLAN APPROVAL

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6	12-10-19	PLAN MODIFICATION	SBS	BCM
7	1-27-2020	PARKING SPACES	SBS	BCM
8	3-4-2020	PLANNING BOARD COMMENTS	SBS	BCM

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SITE
DEVELOPMENT PLAN
(PARCEL ID: G14-25F & G14-25G)
260-280 OAK STREET
PEMBROKE, MASSACHUSETTS



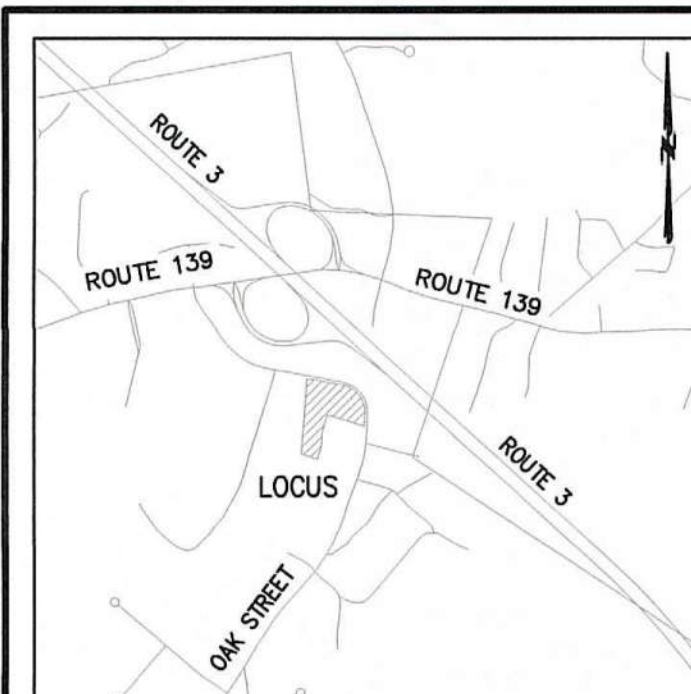
OWNER:
Grissom Park Co., LLP
293R Washington Street
Norwell, Massachusetts 02061

DRAWN BY:	SBS
DESIGNED BY:	---
CHECKED BY:	---
APPROVED BY:	BCM
DATE:	MARCH 22, 2017
SCALE:	1"=40'
PROJECT NO.:	215-105
DWG. TITLE:	

Site Layout
Plan
Phase I

DWG. NO:

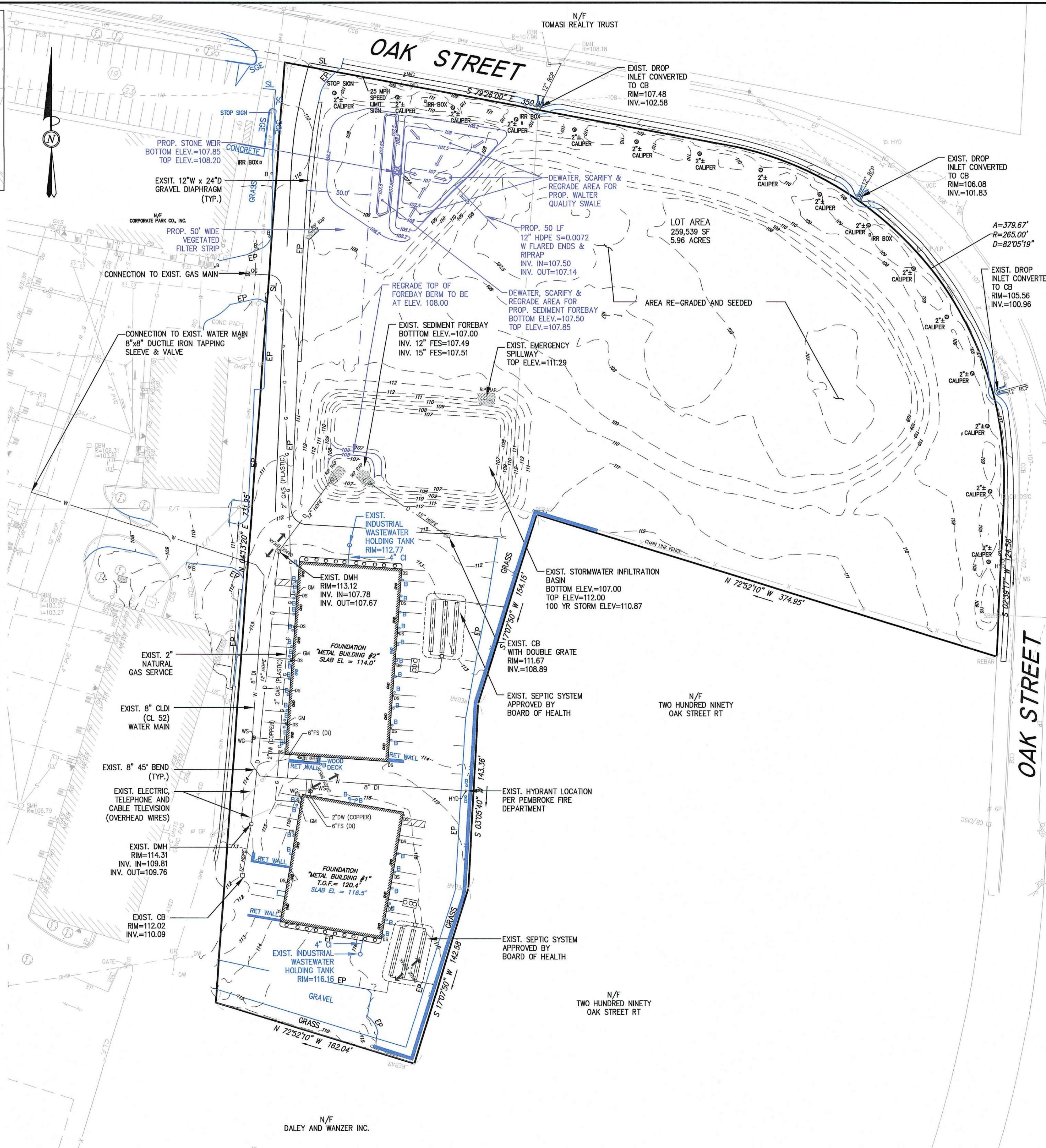
C-1



Locus Map
Not to Scale

LEGEND

- SURVEY SYMBOLS**
- REBAR
 - ANGLE IRON
 - CONCRETE BOUND WITH DRILL HOLE
 - SB
 - STONE BOUND
 - SB/DH
 - 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
 - EMH
 - ELECTRIC MANHOLE
 - SMH
 - SEWER MANHOLE
 - DMH
 - DRAIN MANHOLE
 - TMH
 - TELEPHONE MANHOLE
 - CBN
 - DRAINAGE CATCH BASIN
 - DOOR WAY THRESHOLD
 - HYDRANT
 - POST INDICATOR VALVE
 - UTILITY POLE
 - YARD LIGHT
 - RIP RAP
 - BOLLARD
 - SIGN
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 - WS
 - WATER SERVICE
 - UNDERGROUND ELECTRIC
 - STORM DRAIN LINE
 - S
 - SANITARY SEWER LINE
 - DRAINAGE SWALE
 - CHAIN LINK FENCE



ABBREVIATIONS

- | | |
|------------|-----------------------------|
| APPROX. | APPROXIMATELY |
| BCC | BITUMINOUS CONCRETE CURBING |
| BIT. CONC. | BITUMINOUS CONCRETE |
| CB | CATCH BASIN |
| CLF | CHAIN LINK FENCE |
| CO | CLEANOUT |
| CONC. | CONCRETE |
| CRW | CONCRETE RETAINING WALL |
| DUMP | DUMPSTER |
| ELEV. | ELEVATION |
| EOP | EDGE OF PAVEMENT |
| EXIST. | EXISTING |
| F.F. | FIRST FLOOR |
| FND | FOUND |
| (M) | MARKED |
| N/F | NOW OR FORMERLY |
| No. | NUMBER |
| O/H | OVERHANG |
| OHV | OVERHEAD DOOR |
| PROP. | PROPOSED |
| R | ROOF DRAIN |
| RD | SEWER MANHOLE |
| SMH | TOP OF FOUNDATION |
| T.O.F. | TYPICAL |
| UP | UTILITY ELECTRIC METER |
| VGC | VERTICAL GRANITE CURB |

SITE PLAN APPROVAL

DATE OF APPLICATION: _____

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PEMBROKE PLANNING BOARD

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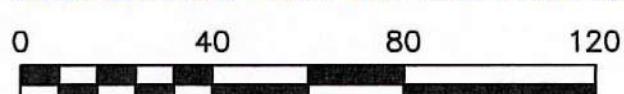
DATE _____ TOWN CLERK _____

GENERAL UTILITY NOTES:

- 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 "DISSAFE" 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
- THE CONTRACTOR SHALL EXCAVATE THE TEST PITS PRIOR TO INSTALLING THE WATER MAIN TO VERIFY THE SIZE, ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE RESULTS PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL EXCAVATE TEST PITS AT THE PROPOSED UTILITY CONNECTION LOCATIONS SHOWN ON THE PLAN PRIOR TO COMMENCING WORK 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.
- ALL WATER SERVICES SHALL BE INSTALLED WITH 5' OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE.
- THE WATER MAIN SHALL BE CEMENT LINED DUCTILE IRON PIPE (C.L.D.I.) AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED TAPPING SLEEVE, GATE VALVE AND BOX.
- ALL WATER AND FIRE SERVICE APPURTENANCES, MATERIALS, METHODS OF INSTALLATION SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.
- THE DOMESTIC WATER SERVICE SHALL BE ADEQUATELY PROTECTED AGAINST BACKFLOW (BACKFLOW PREVENTION) AT THE BUILDING.
- AFTER PRESSURE TESTING AND CHLORINATION IS COMPLETED, SAMPLES SHALL BE TAKEN FROM THE DOMESTIC WATER SERVICE AND SHALL BE TESTED AT 200 PSI FOR A MINIMUM OF 2 HOURS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE PEMBROKE DEPARTMENT OF PUBLIC WORKS AT LEAST 24 HOURS PRIOR TO THE TESTING.
- THE DOMESTIC WATER SERVICE SHALL BE TESTED IN ACCORDANCE WITH DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS. A MINIMUM OF 2 SEPARATE WATER SAMPLES SHALL BE TESTED AT A STATE CERTIFIED LABORATORY.
- 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 GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SDR-35 UNLESS OTHERWISE NOTED.
- 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.
- THE LOCATIONS OF PROPOSED ELECTRIC, TELEPHONE AND COMMUNICATION (E.T.C.) SERVICES ARE APPROXIMATE. THE PROJECT ELECTRICAL ENGINEER SHALL VERIFY THESE LOCATIONS PRIOR TO THE START OF CONSTRUCTION. COORDINATE ALL E.T.C. WORK WITH THE APPROPRIATE UTILITY COMPANIES.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH PEMBROKE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
- IF, DURING THE CONSTRUCTION PROCESS, THE NEED FOR EXCAVATION DEWATERING ARISES, A DEWATERING FILTER PIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROPRIATE STORMWATER MANAGEMENT AND ENGINEERING PRACTICES.

PURPLE HIGHLIGHTED ITEMS REFLECT PROPOSED SITE CONDITIONS THAT ARE MODIFICATIONS FROM THE SITE PLAN APPROVAL

BLUE HIGHLIGHTED ITEMS REFLECT EXISTING SITE CONDITIONS THAT ARE MODIFICATIONS FROM THE SITE PLAN APPROVAL



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260-280 OAK STREET
PEMBROKE, MASSACHUSETTS

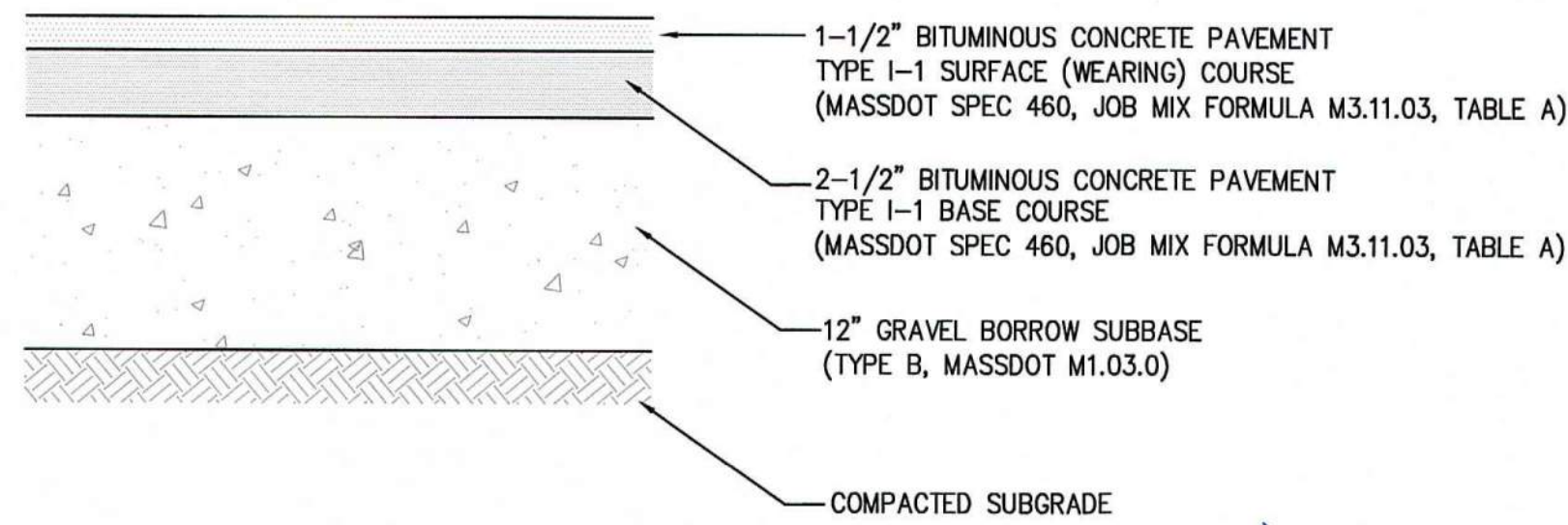


OWNER:
Grissom Park Co., LLP
293R Washington Street
Norwell, Massachusetts 02061

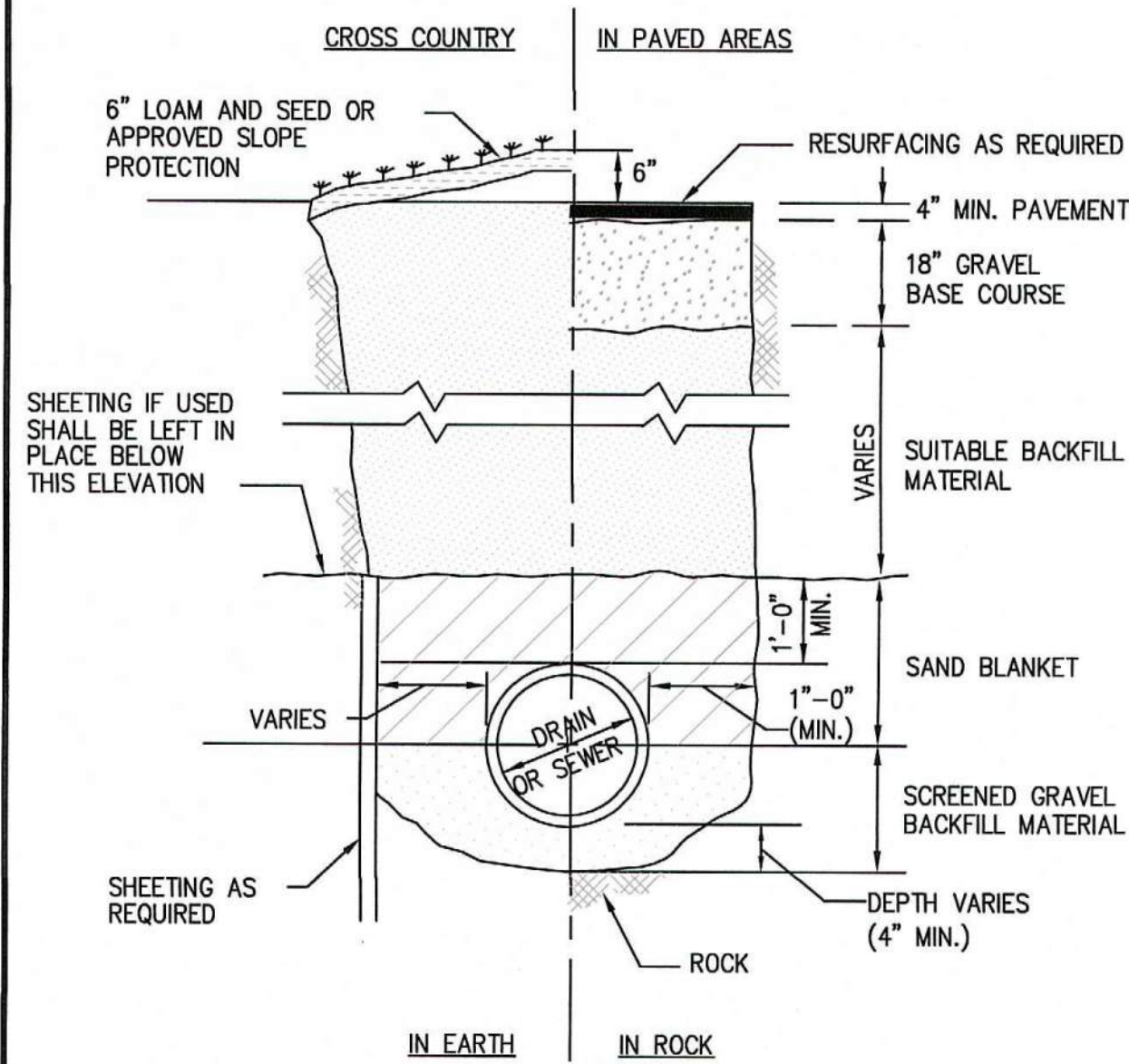
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DESIGNED BY: ---
CHECKED BY: BCM
APPROVED BY: BCM
DATE: MARCH 22, 2017
SCALE: 1"=40'
PROJECT NO.: 215-105
DWG. TITLE:

Grading & Utility Plan
Phase I

DWG. NO.: C-2

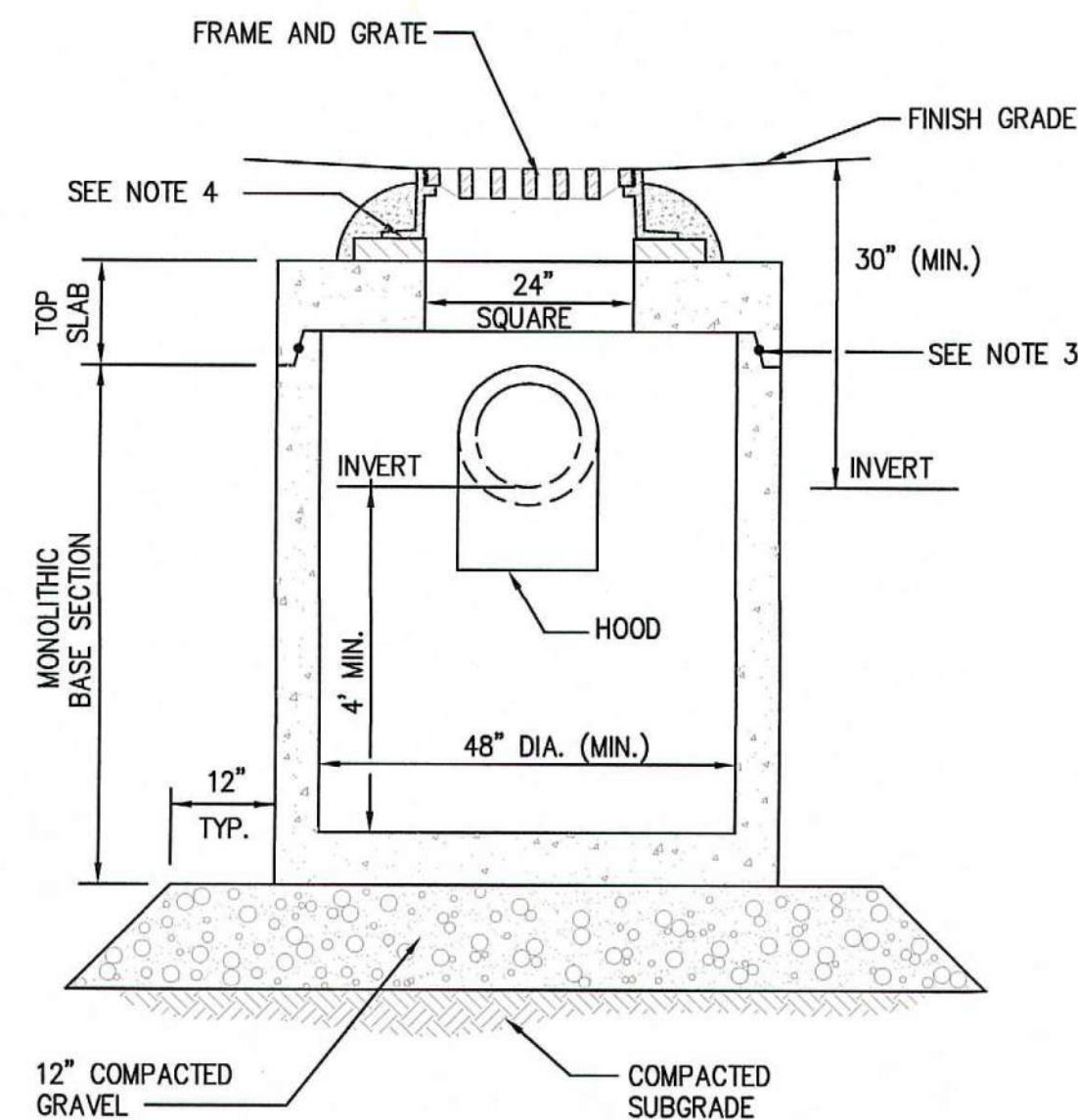


ACCESS ROAD/PARKING AREA PAVEMENT DETAIL
SCALE: N.T.S.

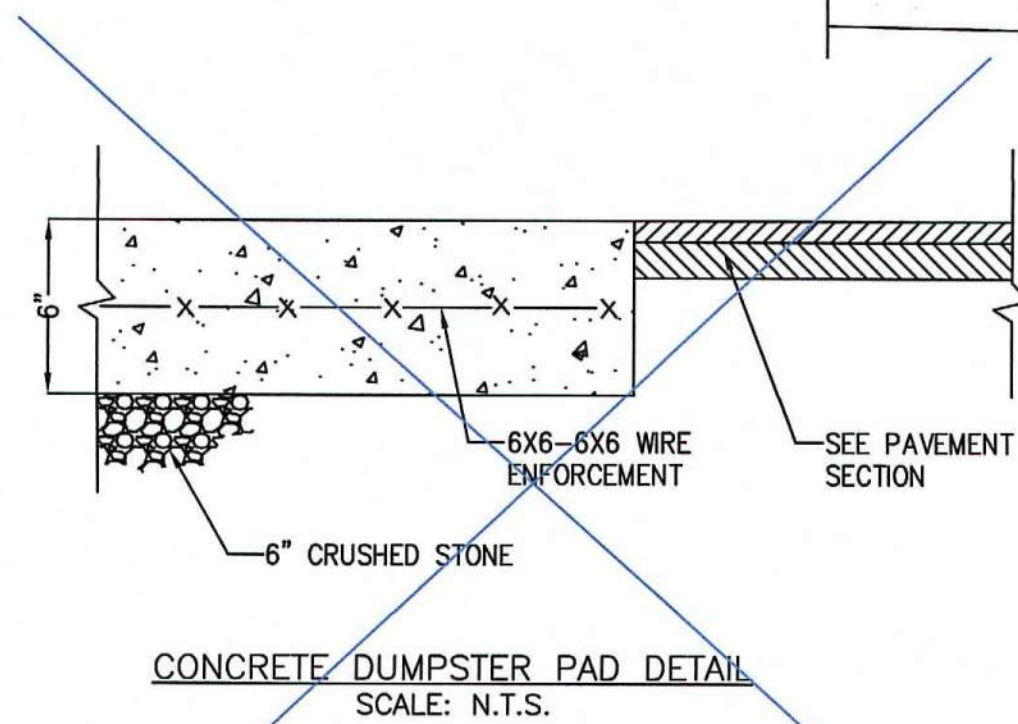


TYPICAL TRENCH DETAIL
SCALE: N.T.S.

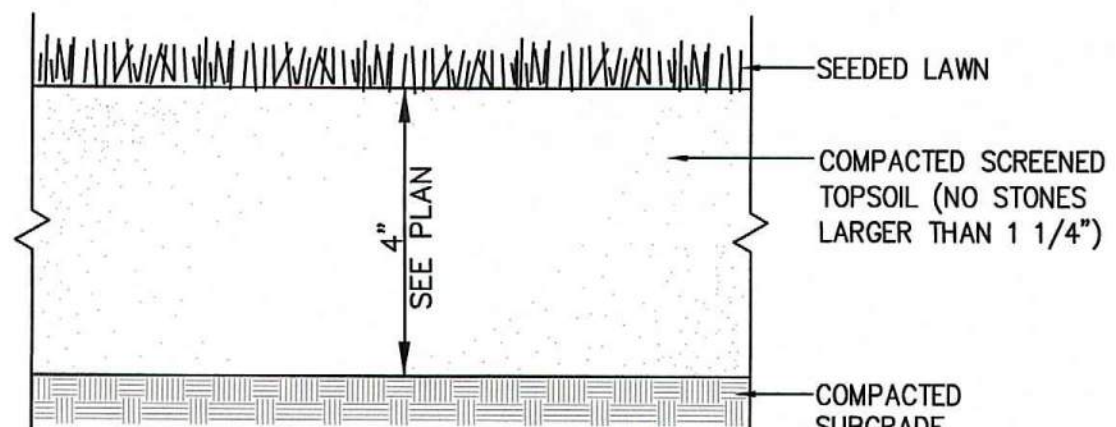
- NOTES:
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.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



SHALLOW CATCH BASIN WITH HOOD DETAIL
SCALE: N.T.S.



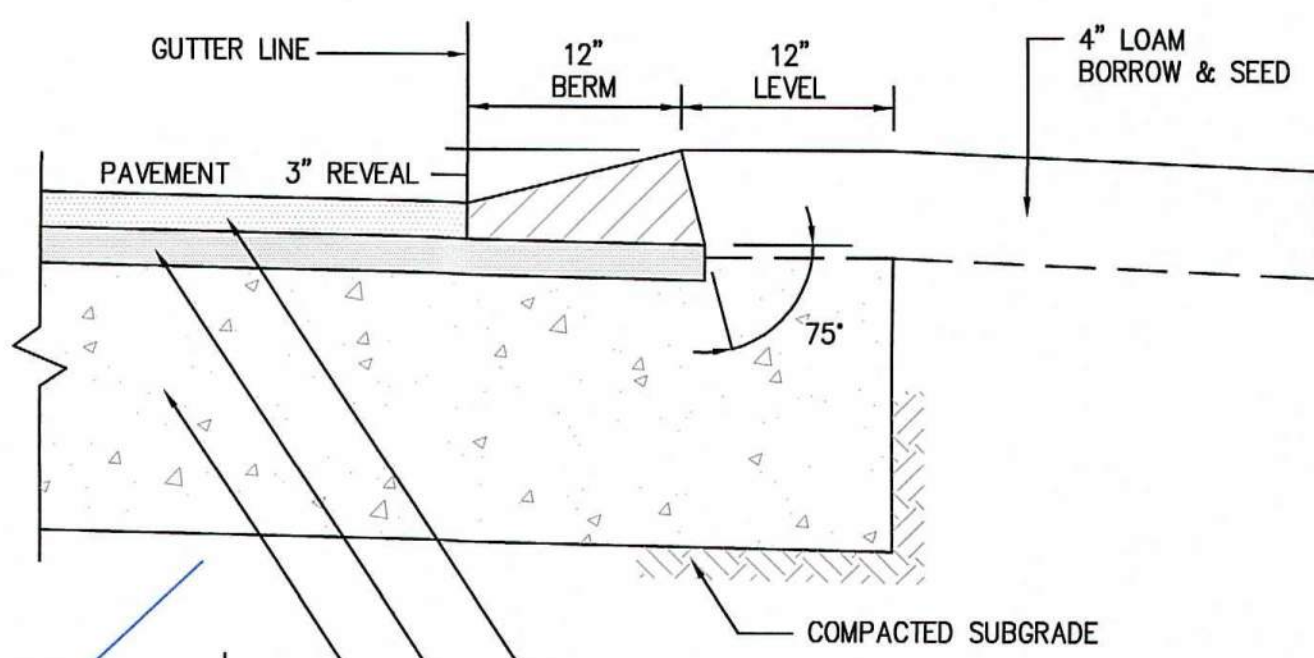
CONCRETE DUMPSTER PAD DETAIL
SCALE: N.T.S.



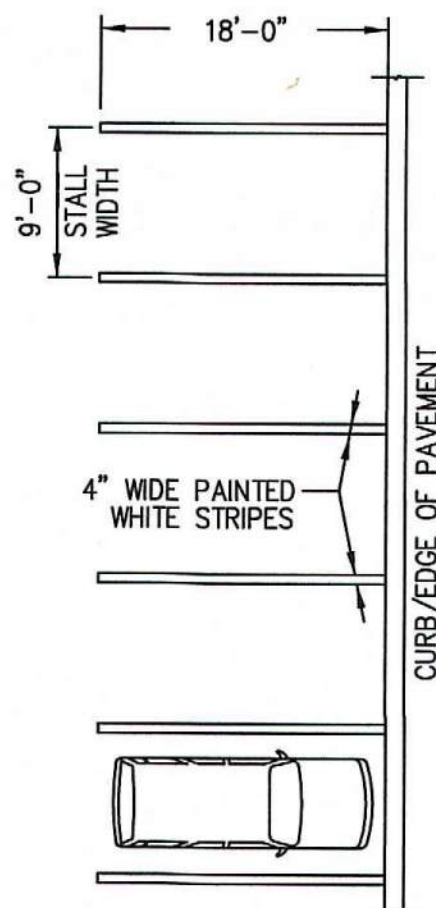
- NOTES:
- TOP OF LOAM (TOPSOIL) IS FINISHED GRADE.
 - TOPSOIL SHALL CONTAIN BETWEEN 5% AND 12% ORGANIC MATTER AND SHALL HAVE A MAXIMUM STONE SIZE OF 1 1/4" AND SHALL CONFORM TO THE FOLLOWING GRADATION:

SIEVE	% PASSING
1 1/4 INCH	100
No.4	85-100
No.40	60-85
No.100	38-60
No.200	28-40

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

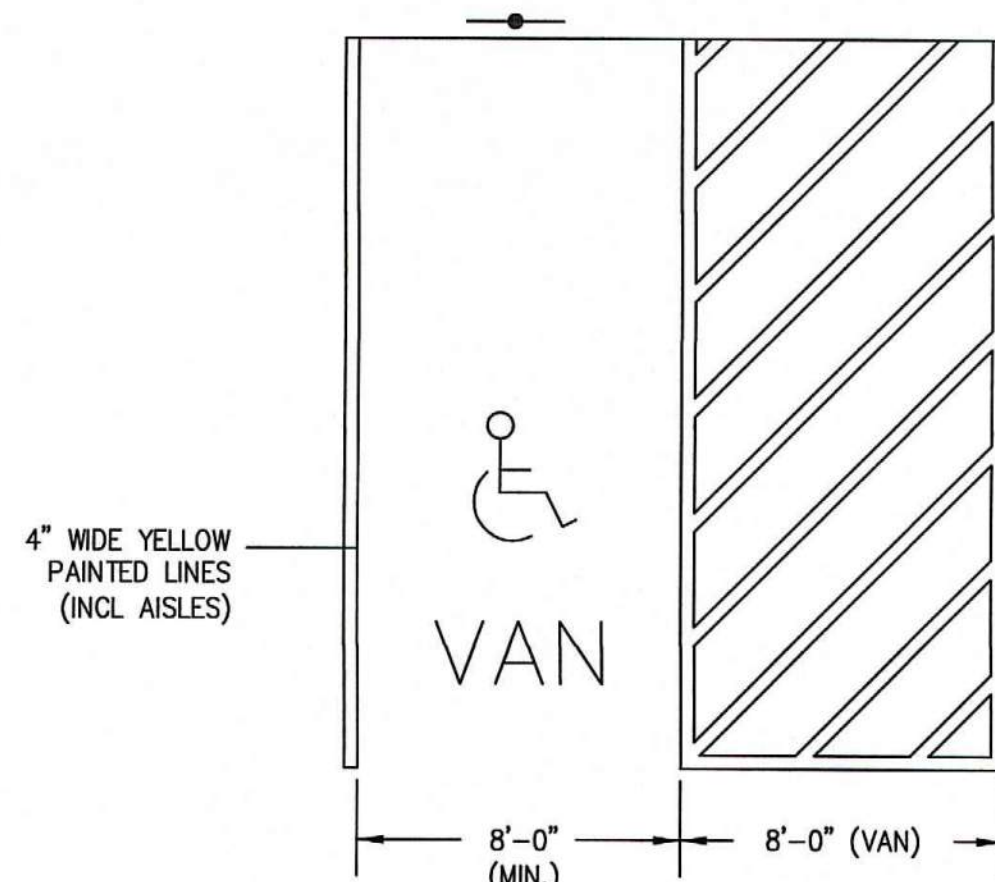


MONOLITHIC BITUMINOUS CONCRETE
(CAPE COD) BERM DETAIL
SCALE: N.T.S.

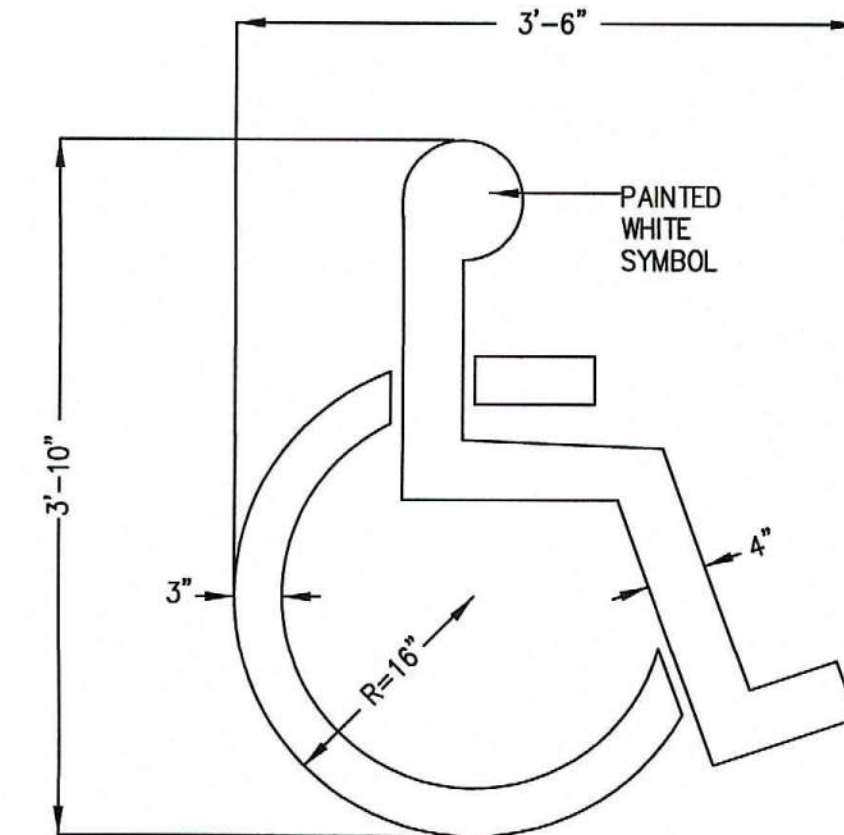


STANDARD SPACE

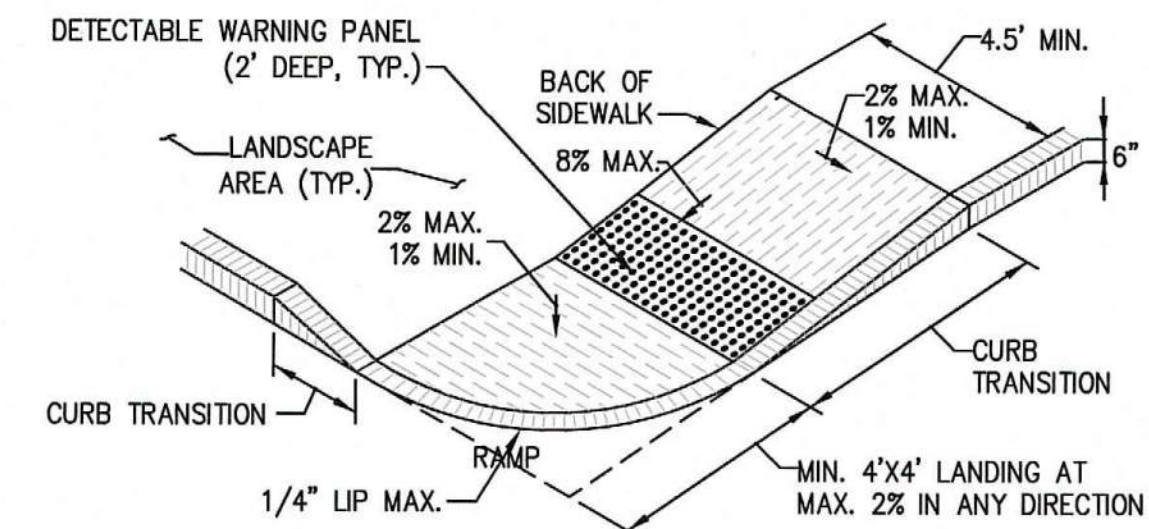
TYPICAL STRIPING DETAILS
SCALE: N.T.S.



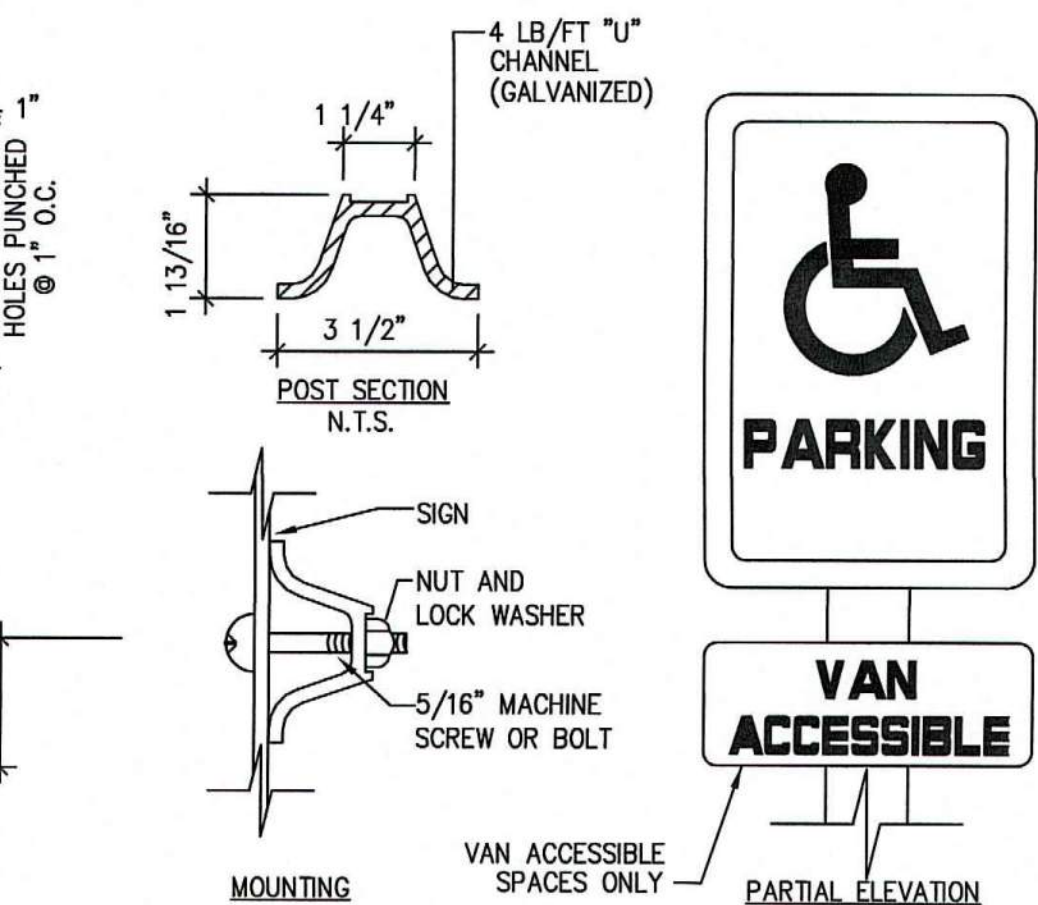
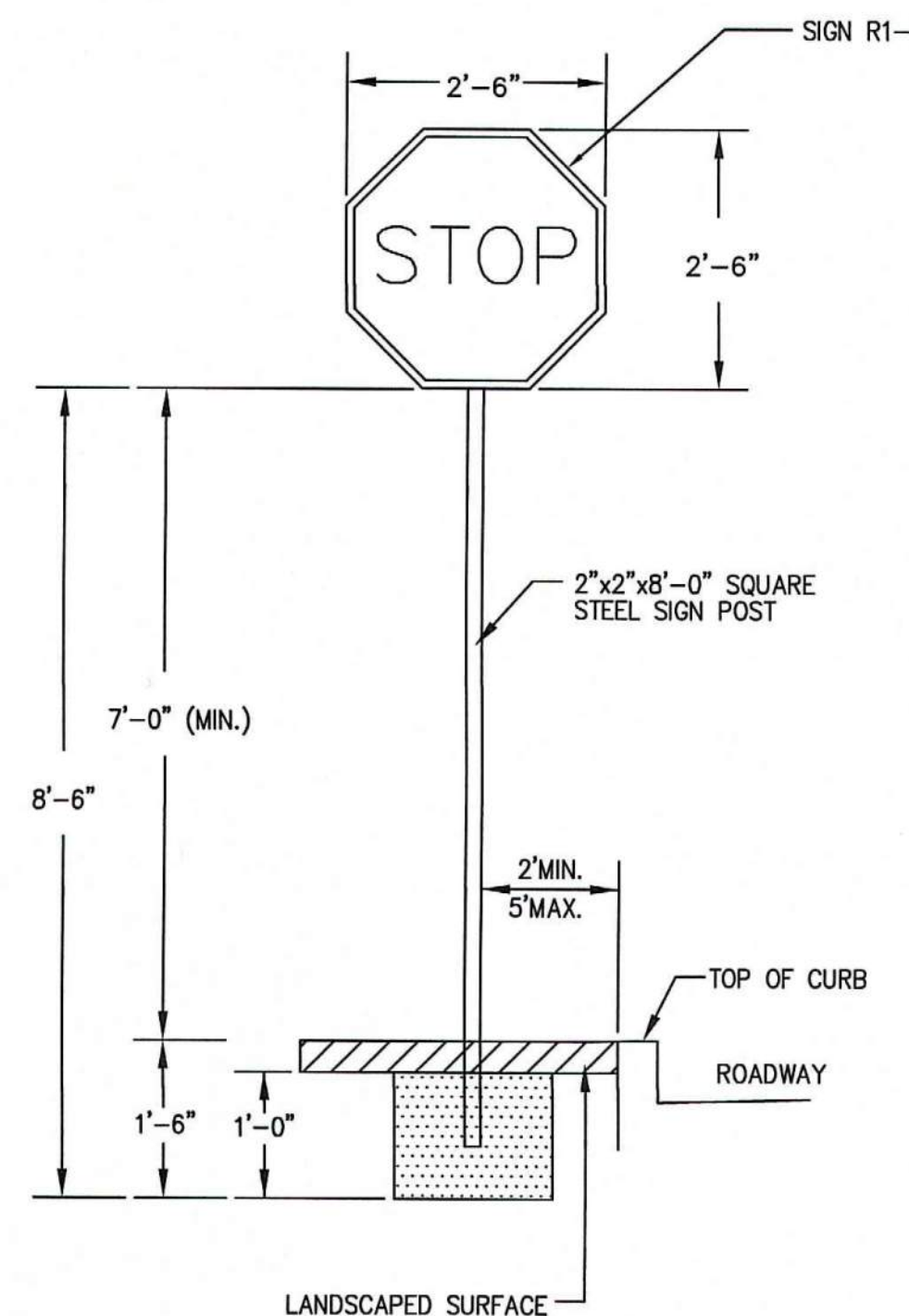
HANDICAP PARKING STALL DETAIL
SCALE: N.T.S.



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



ACCESSIBLE CURB RAMPS
SCALE: N.T.S.



SIGN DETAIL
SCALE: N.T.S.

SITE PLAN APPROVAL

DATE OF APPLICATION: _____

DATE OF HEARING: _____

DATE OF APPROVAL: _____

DATE OF ENDORSEMENT: _____

PEMBROKE PLANNING BOARD

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE PEMBROKE ZONING BY-LAW.

I, _____, TOWN CLERK OF THE TOWN OF PEMBROKE, MA, HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE NEXT TWENTY DAYS AFTER RECEIPT AND RECORDING OF SAID NOTICE.

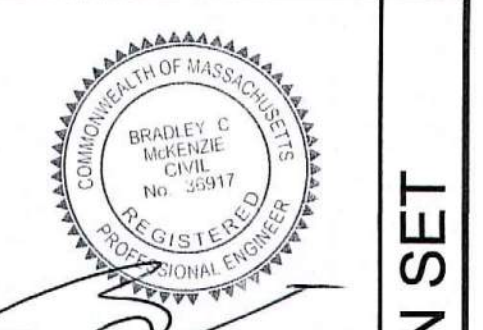
DATE _____ TOWN CLERK _____

REV	DATE	DESCRIPTION	BY	APP
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3	6-14-18	PER REVIEW COMMENTS	SBS	BCM
4	7-30-18	NO CHANGES THIS SHEET	SBS	BCM
5	10-18-19	PLAN MODIFICATION	SBS	BCM
6	12-10-19	NO CHANGES THIS SHEET	SBS	BCM
7	1-27-2020	NO CHANGES THIS SHEET	SBS	BCM
8	3-4-2020	NO CHANGES THIS SHEET	SBS	BCM

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Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
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SITE DEVELOPMENT PLAN

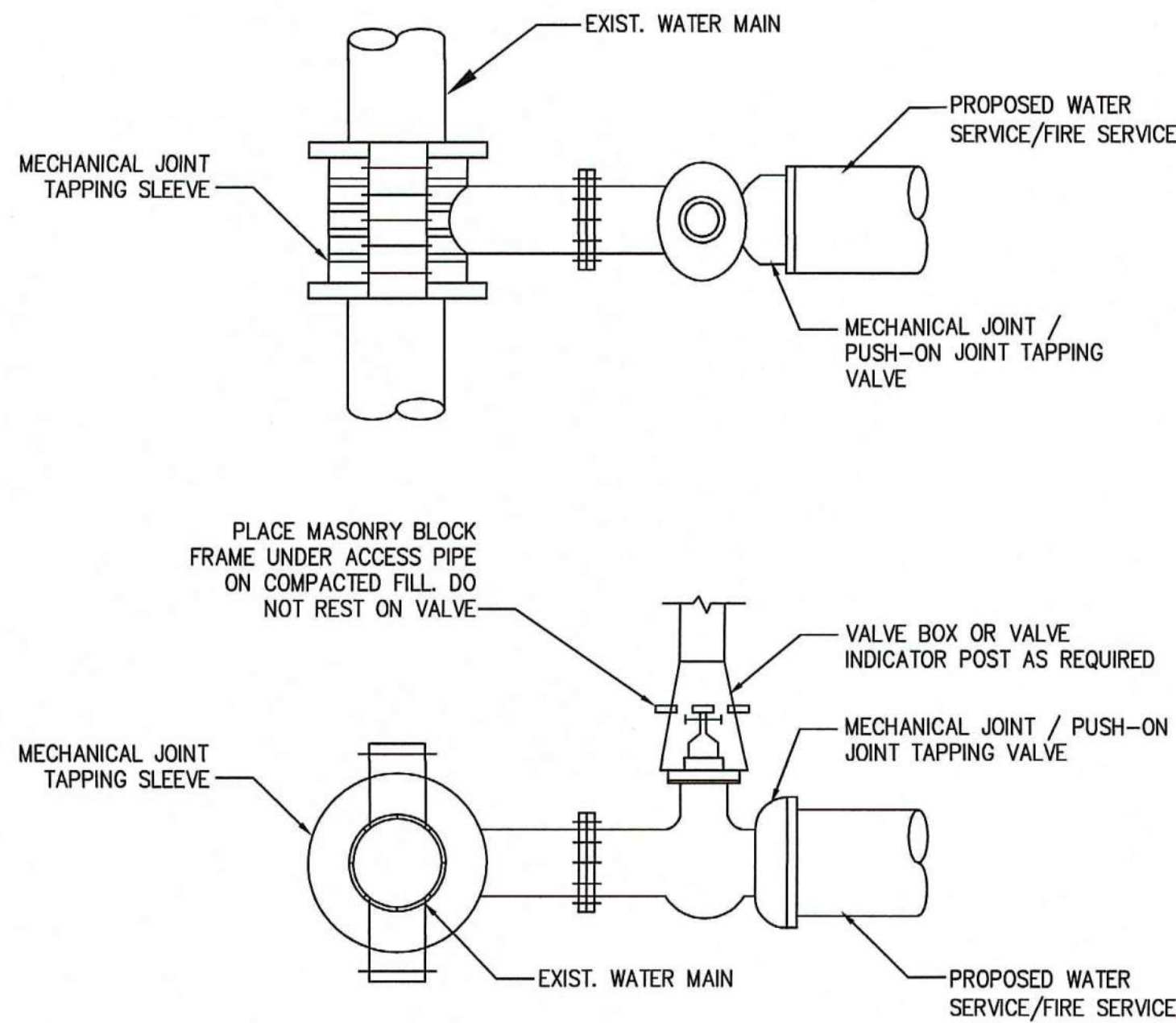
(PARCEL ID: G14-25F & G14-25G)
260-280 OAK STREET
PEMBROKE, MASSACHUSETTS



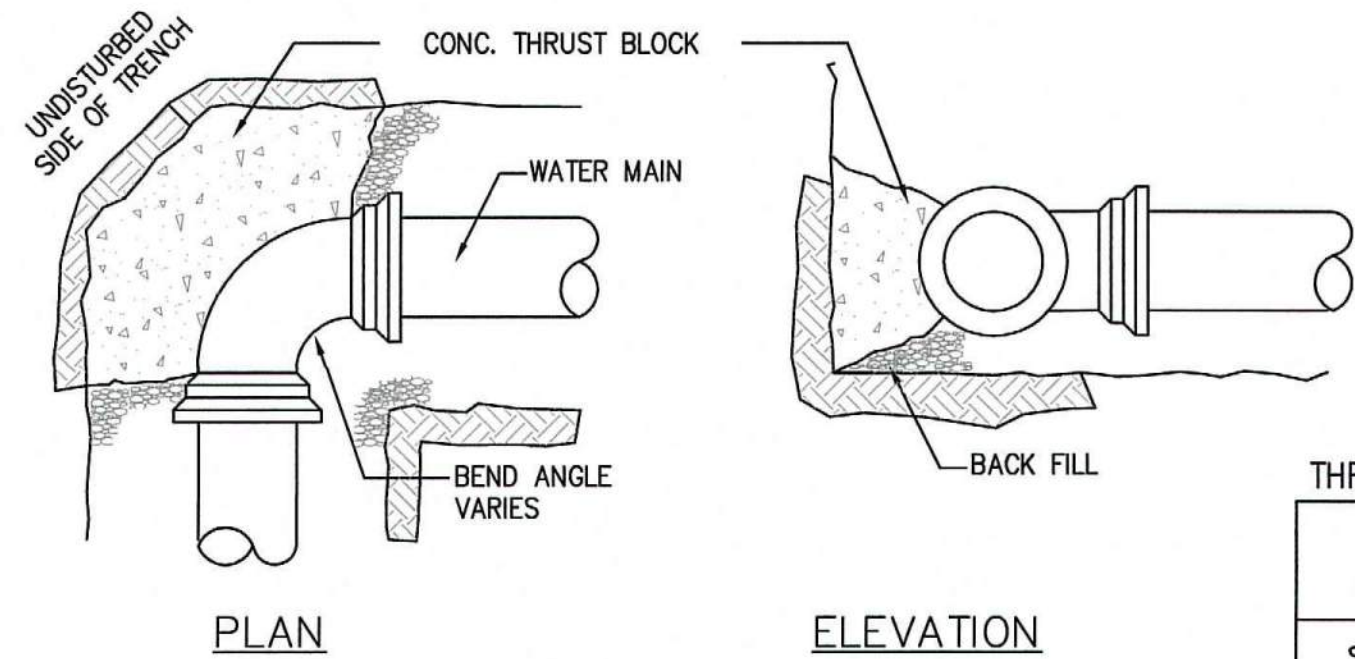
OWNER: Grissom Park Co., LLP
293R Washington Street
Norwell, Massachusetts 02061

DRAWN BY: SBS
DESIGNED BY: --
CHECKED BY: --
APPROVED BY: BCM
DATE: MARCH 22, 2017
SCALE: 1"=40'
PROJECT NO.: 215-105
DWG. TITLE: Construction Details I Phase I

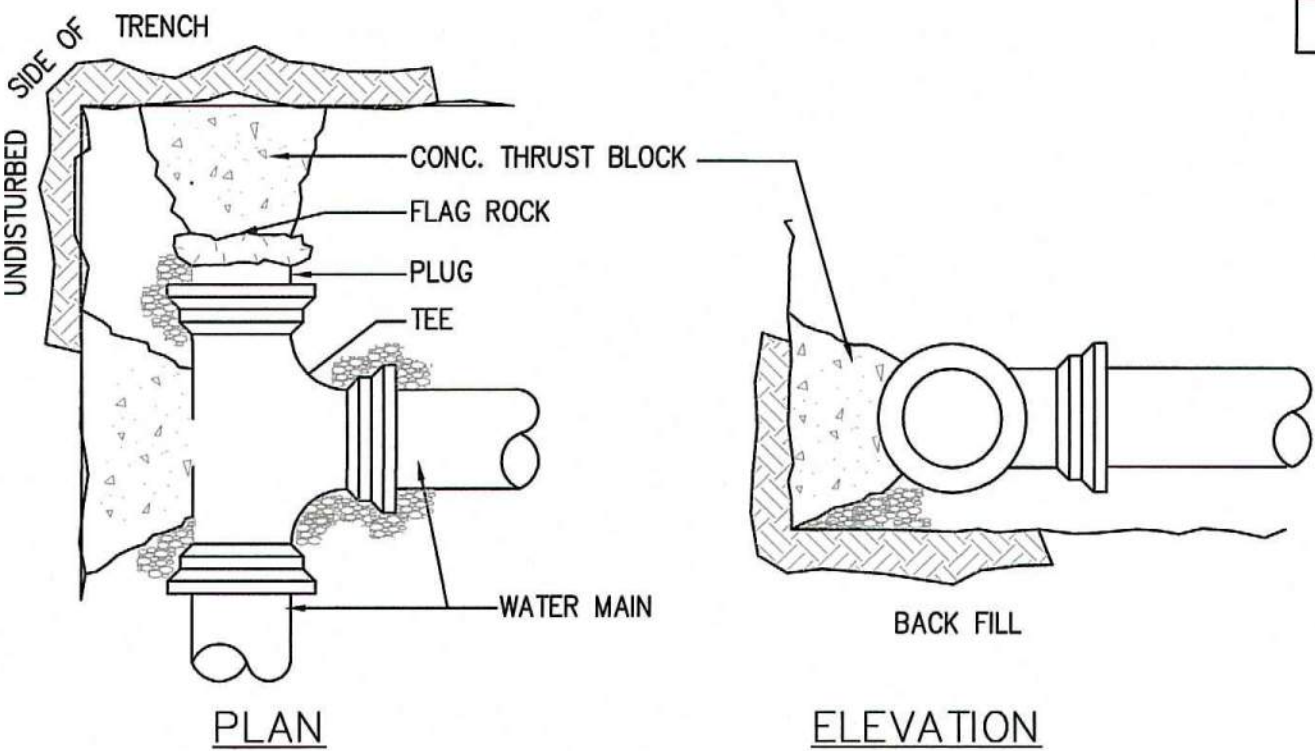
DWG. NO: **C-3**



TYPICAL TAPPING VALVE AND SLEEVE DETAIL
SCALE: N.T.S.



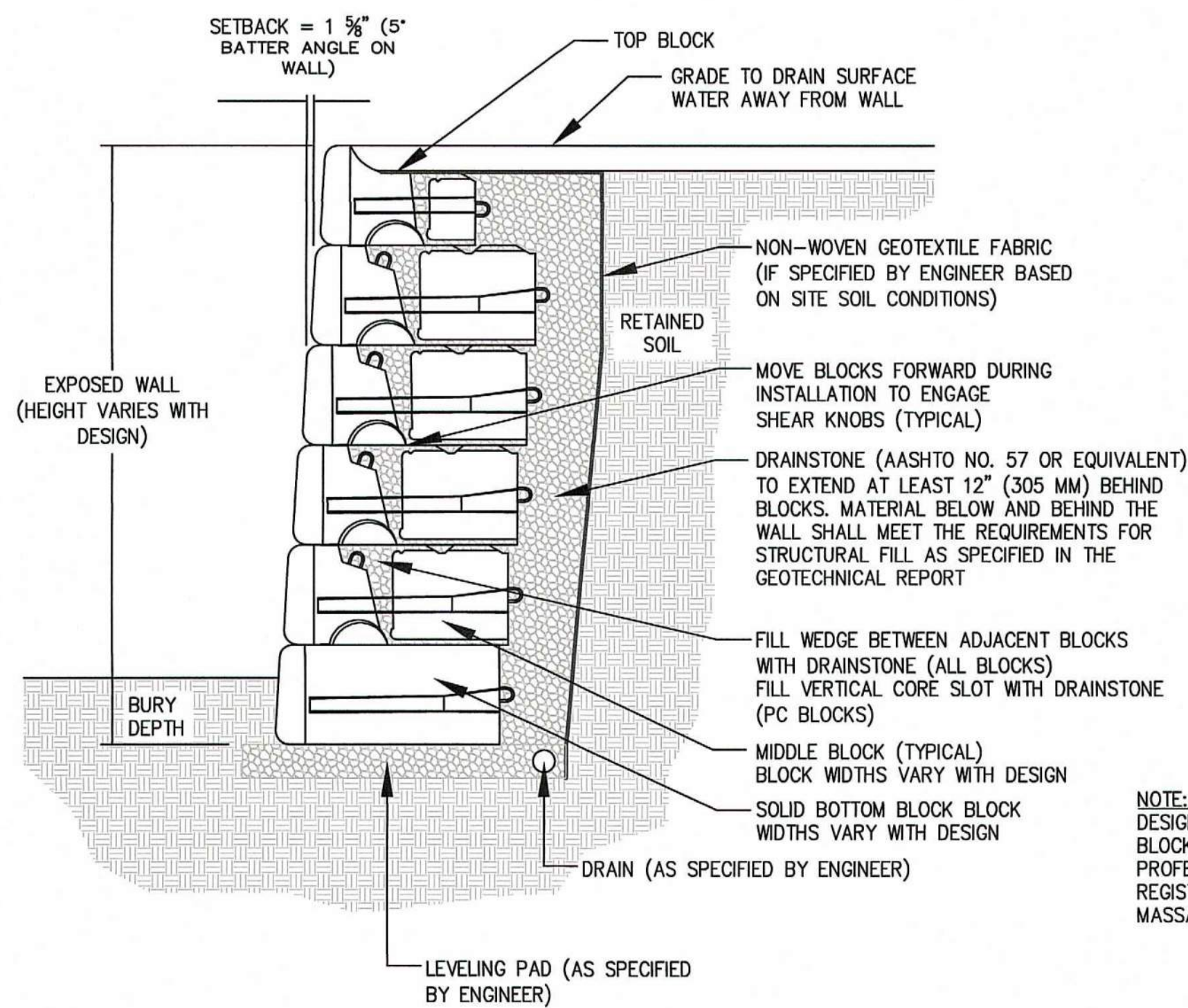
PLAN
ELEVATION



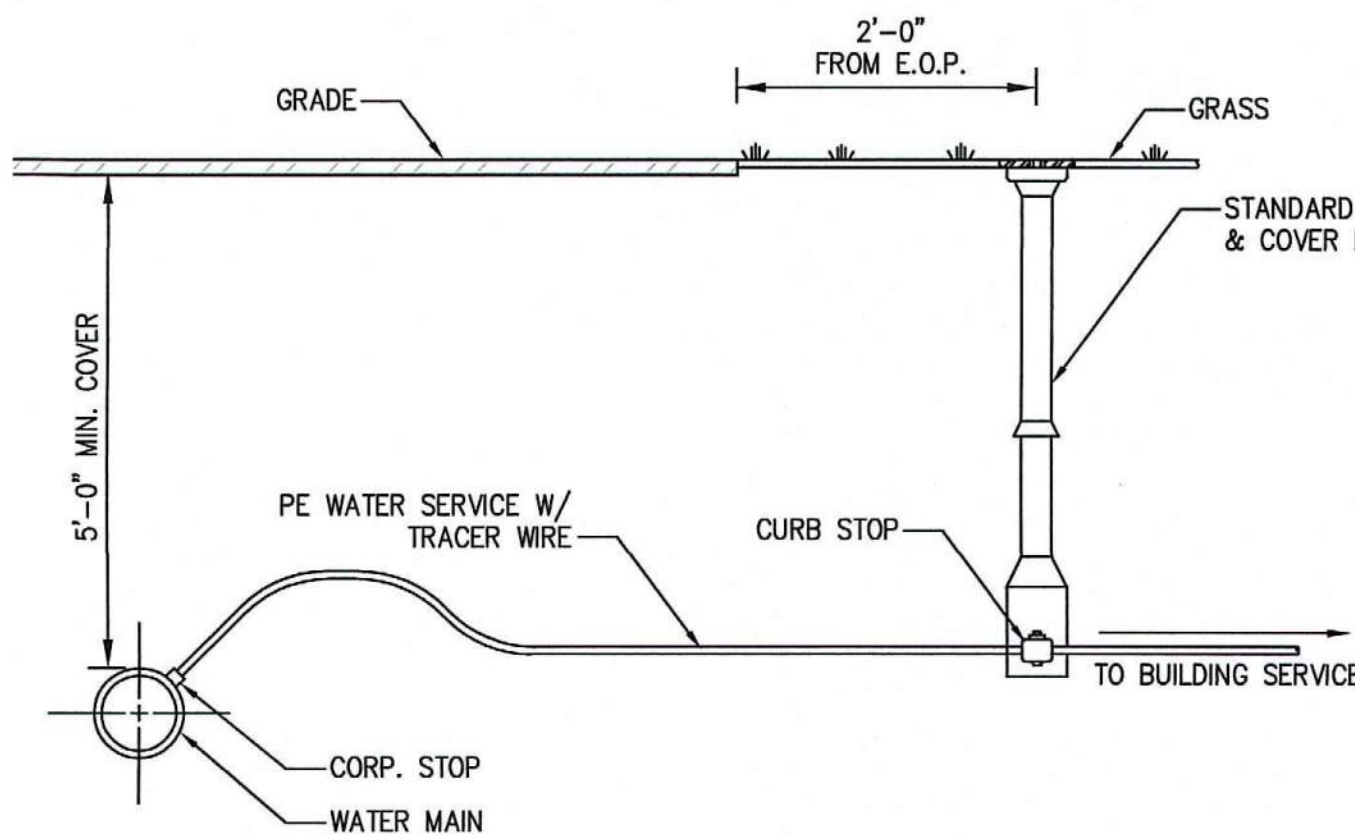
PLAN
ELEVATION

- NOTES:
- ALL WATER MAIN FITTINGS, BENDS, TEES, PLUGS ETC. SHALL BE RESTRAINED W/ THRUST BLOCKS EXCEPT WHERE NOTED.
 - ALL THRUST BLOCKS & COLLARS SHALL BE INSTALLED SO THAT THEY BEAR AGAINST UNDISTURBED EARTH.
 - MINIMUM COMPRESSIVE STRENGTH OF THRUST BLOCK CONCRETE SHALL BE 3,000 P.S.I.
 - KEEP CONCRETE CLEAR OF MECHANICAL JOINTS.

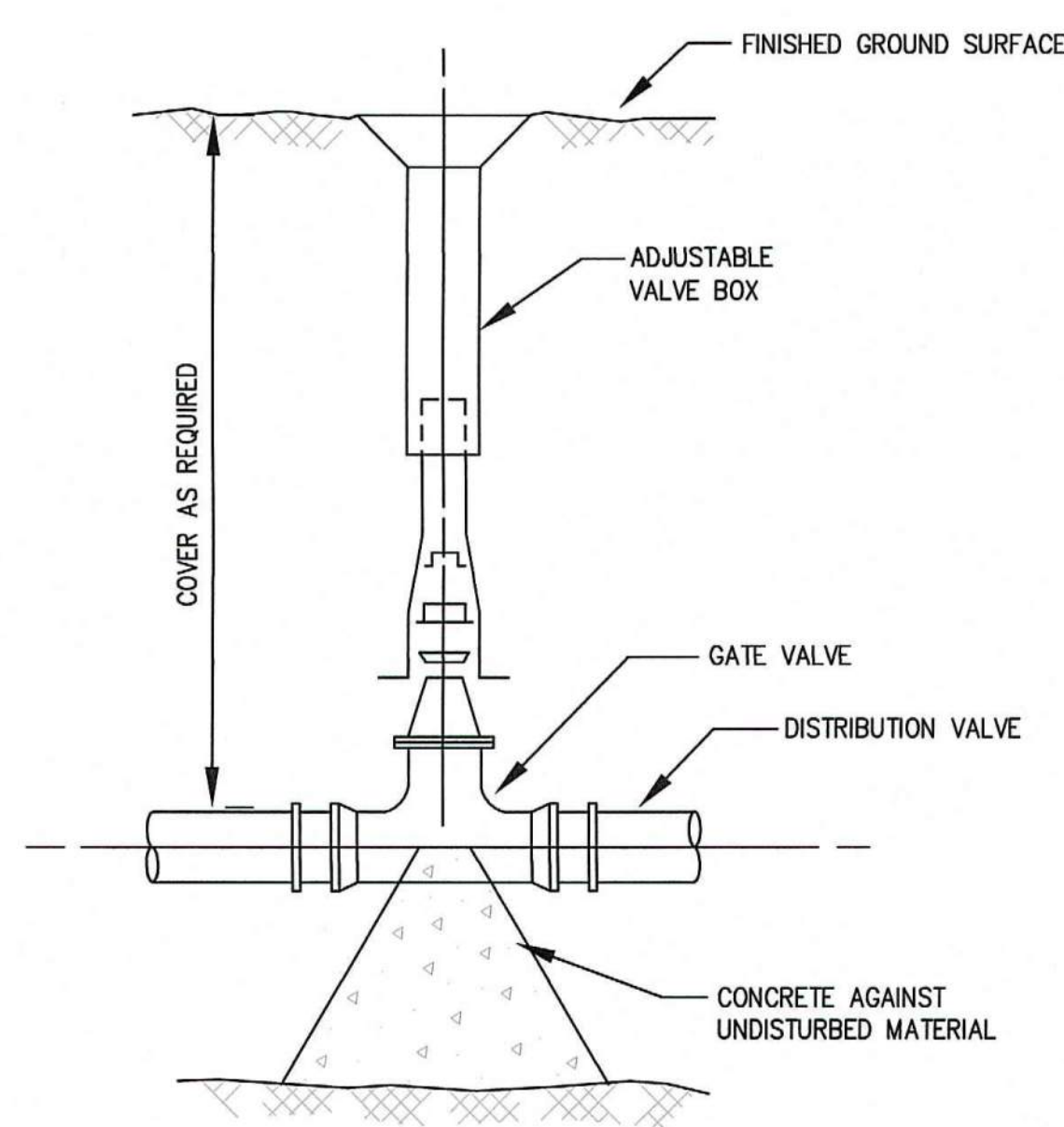
THRUST BLOCK DETAIL
SCALE: N.T.S.



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



WATER SERVICE CONNECTION DETAIL
SCALE: N.T.S.

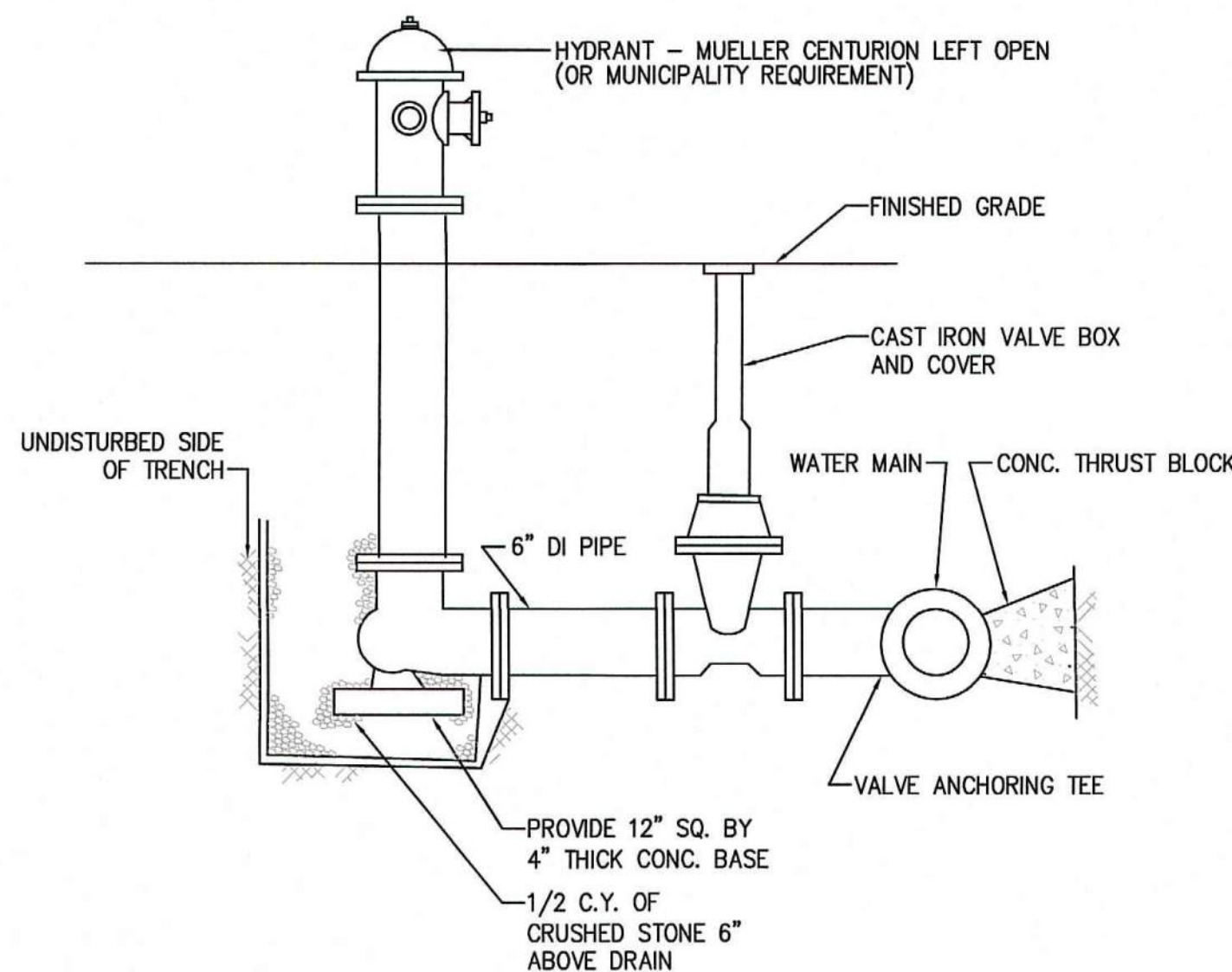


WATER GATE DETAIL
SCALE: N.T.S.

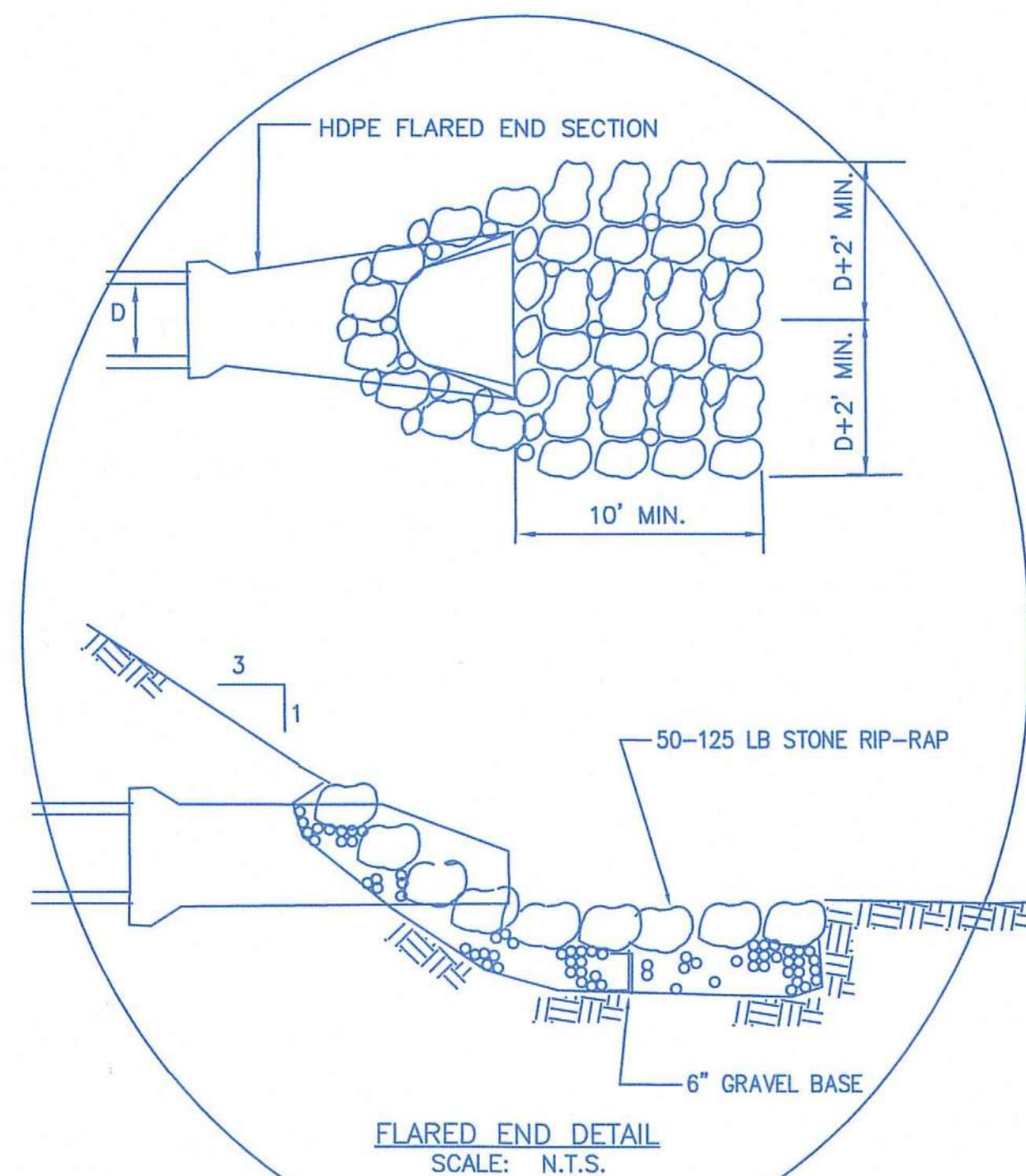
MAXIMUM SIZE TAPPED CONNECTION*	
WATER MAIN DIAMETER	MAXIMUM TAP DIAMETER
4"	1/2"
6"	3/4"
8"	3/4"
12"	1"

WHERE THE SIZE OF THE CONNECTION EXCEEDS THAT GIVEN IN THE TABLE A BOSS SHALL BE PROVIDED OR THE TAP SHALL BE MADE BY MEANS OF MULTIPLE CORP. STOPS AND BRANCH FITTINGS, TAPPED TEE, OR TAPPED SADDLE.

- NOTES:
- FOR FITTINGS WITH LESS THAN 45° DEFLECTION, USE BEARING AREAS FOR 45° BEND.
 - BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 P.S.F. AND INTERNAL WATER PRESSURE OF 150 P.S.I.G. JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DREGARDED FOR TRENCHES IN ROCK WHERE THE TOP OF THE ROCK FACE IS AT OR ABOVE THE CROWN OF THE PIPE. HOWEVER, CONCRETE BACKING SHALL BE PLACED BETWEEN THE PIPE AND THE ROCK FACE.
 - THE CONTRACTOR SHALL SUBMIT 2 WEEKS IN ADVANCE OF PLACEMENT, WORKING DRAWINGS FOR EACH THRUST BLOCK TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
 - ALL TEES, GATE VALVES, HYDRANTS AND FITTINGS SHALL BE MECHANICAL JOINTS WITH MEGA-LUGS.
 - THRUST BLOCKS SHALL BE BARREL BLOCKS.



FIRE HYDRANT DETAIL
SCALE: N.T.S.



FLARED END DETAIL
SCALE: N.T.S.

SITE PLAN APPROVAL

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DATE OF HEARING: _____
DATE OF APPROVAL: _____
DATE OF ENDORSEMENT: _____

PEMBROKE PLANNING BOARD
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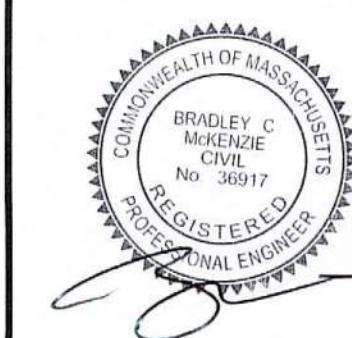
DATE _____ TOWN CLERK _____

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6	12-10-19	NO CHANGES THIS SHEET	SBS	BCM
7	1-27-2020	NO CHANGES THIS SHEET	SBS	BCM
8	3-4-2020	NO CHANGES THIS SHEET	SBS	BCM

MEG
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Norwell, MA 02061
781.792.3900
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SITE DEVELOPMENT PLAN

(PARCEL ID: G14-25F & G14-25G)
260-280 OAK STREET
PEMBROKE, MASSACHUSETTS



OWNER:
Grissom Park Co., LLP
293R Washington Street
Norwell, Massachusetts 02061

DRAWN BY: SBS
DESIGNED BY: --
CHECKED BY: --
APPROVED BY: BCM
DATE: MARCH 22, 2017
SCALE: 1"=40'
PROJECT NO.: 215-105
DWG. TITLE:

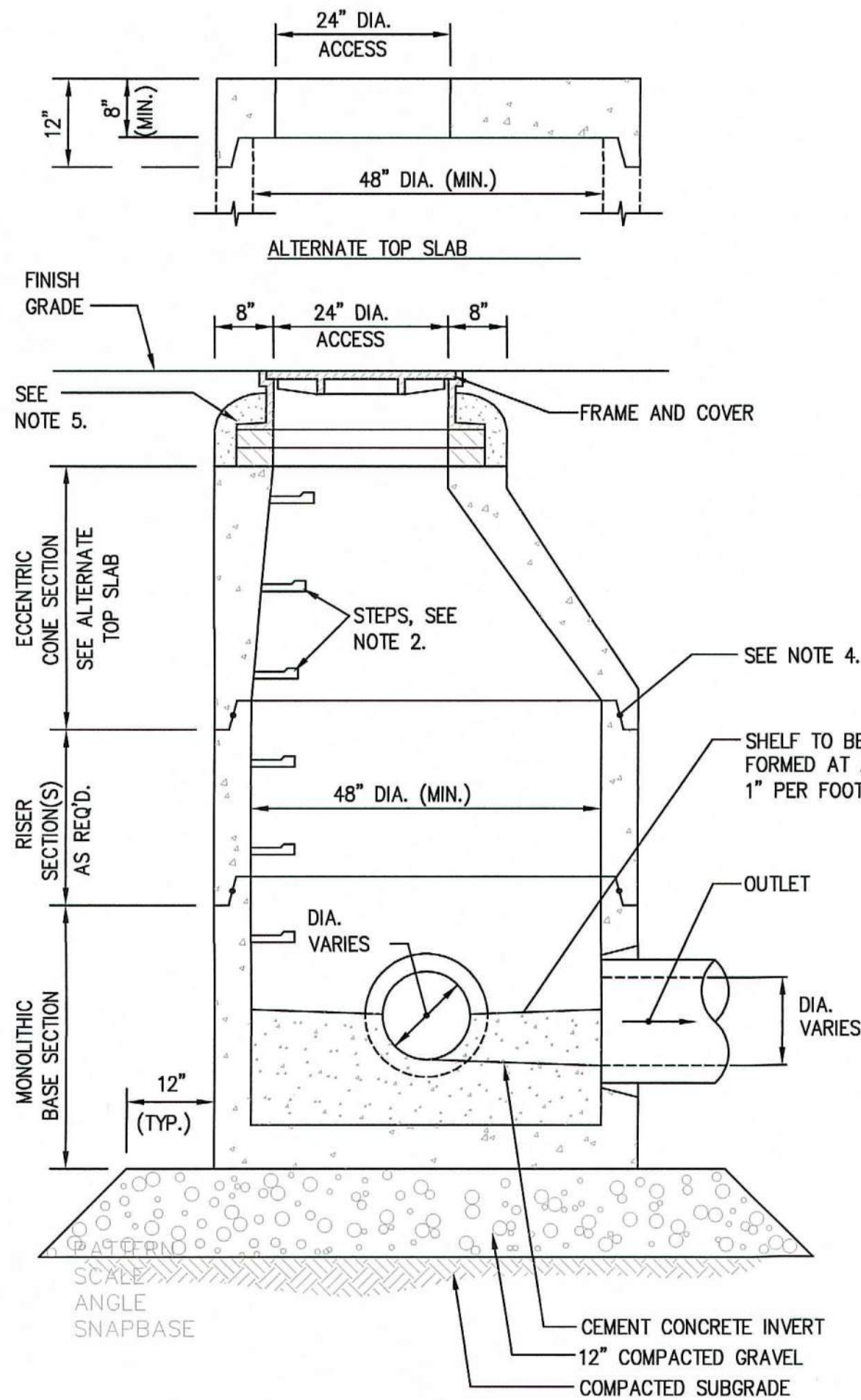
Construction
Details II
Phase I

DWG. NO:

C-4

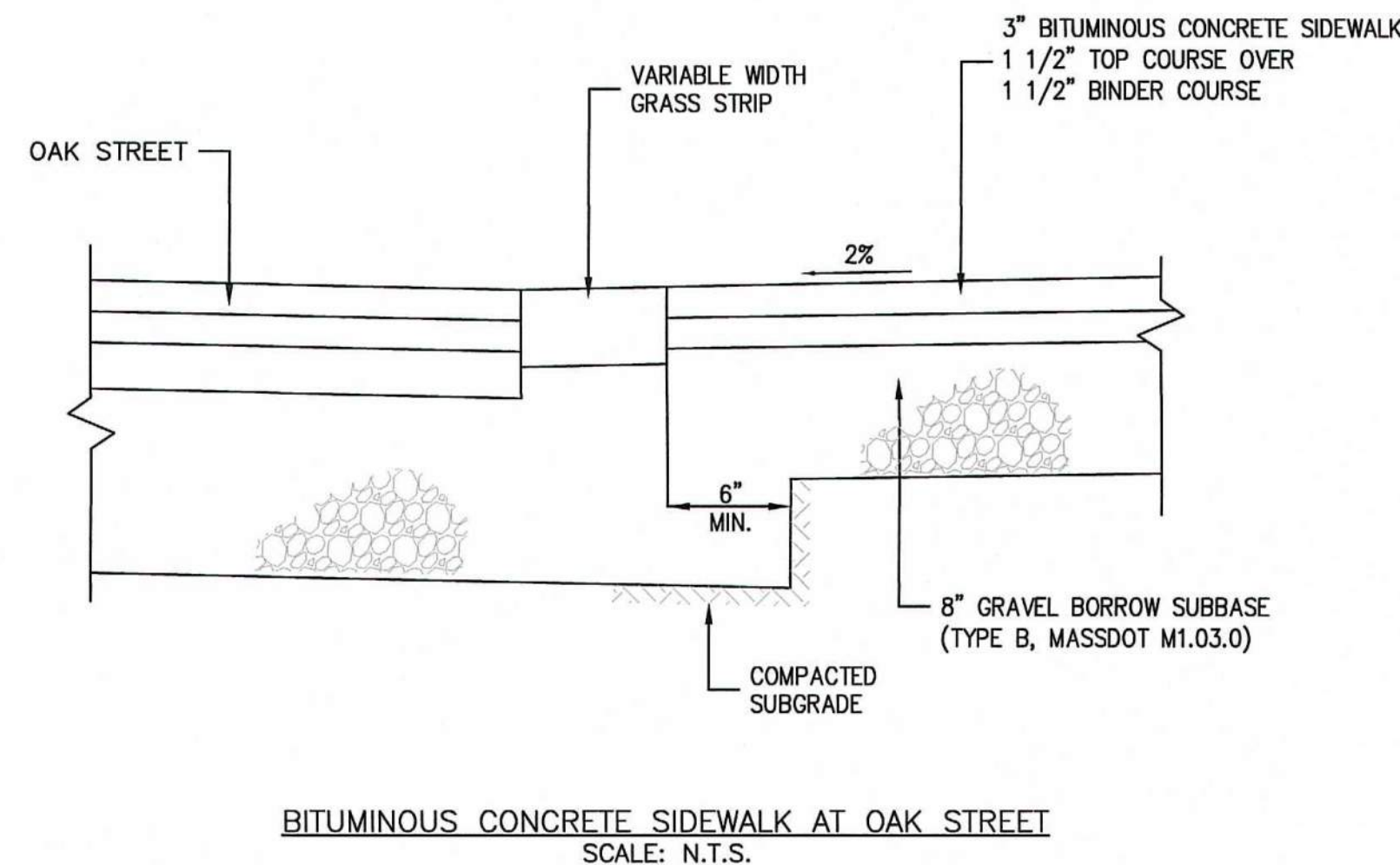
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M:\JED\2015 PROJECTS\215-105\DWGS\OUTSHEETS\PLANMOD\REV 3\215-105 DETAIL_C-4I 03/10/17

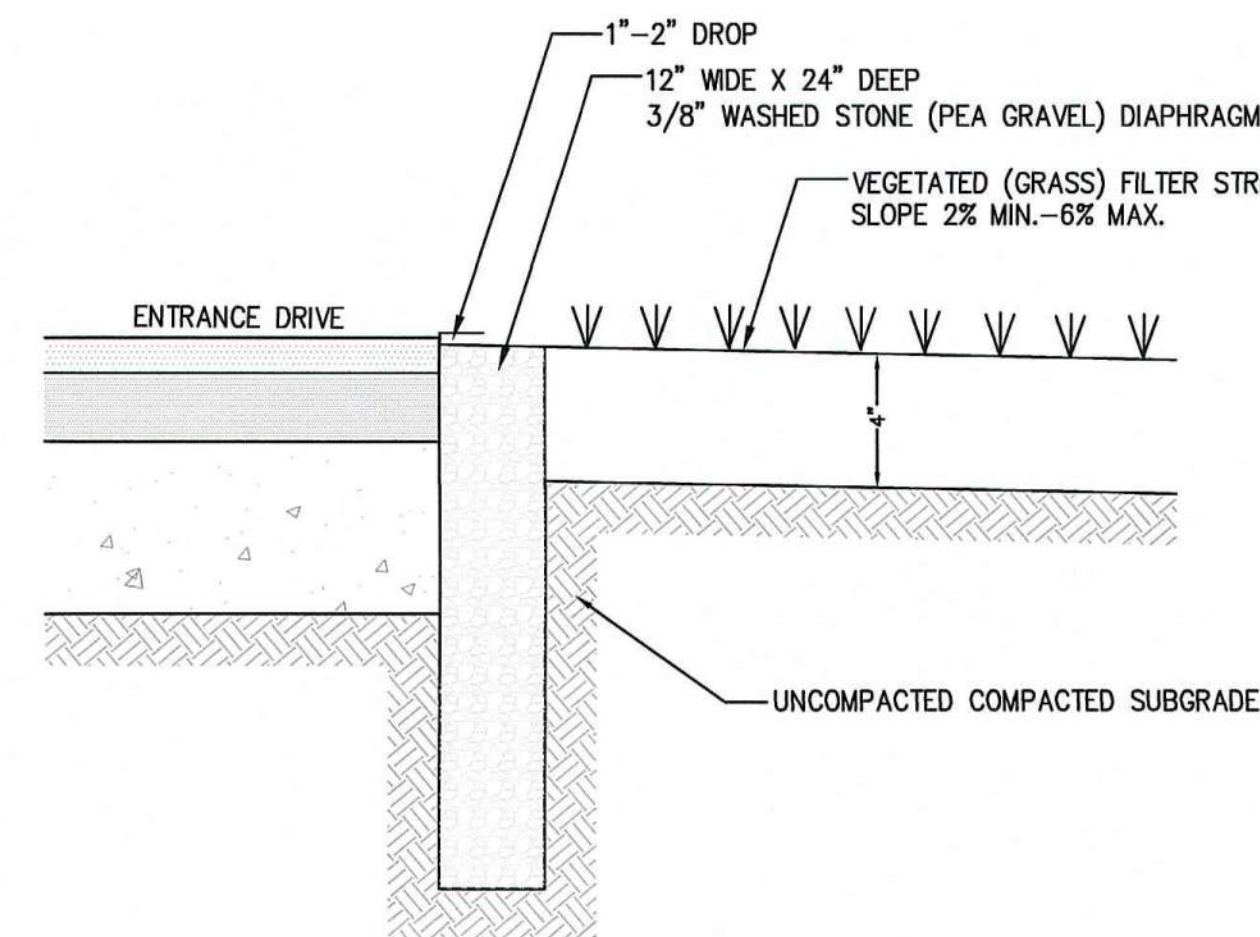


DRAIN MANHOLE DETAIL
SCALE: N.T.S.

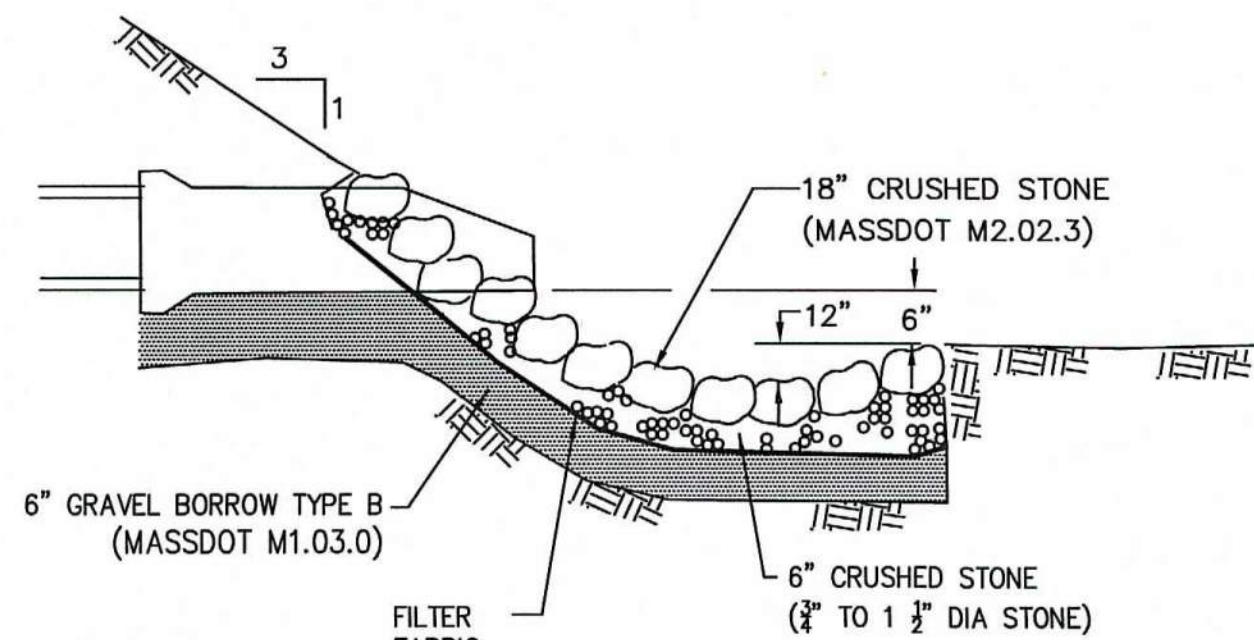
- NOTES:
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 - PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 - 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)



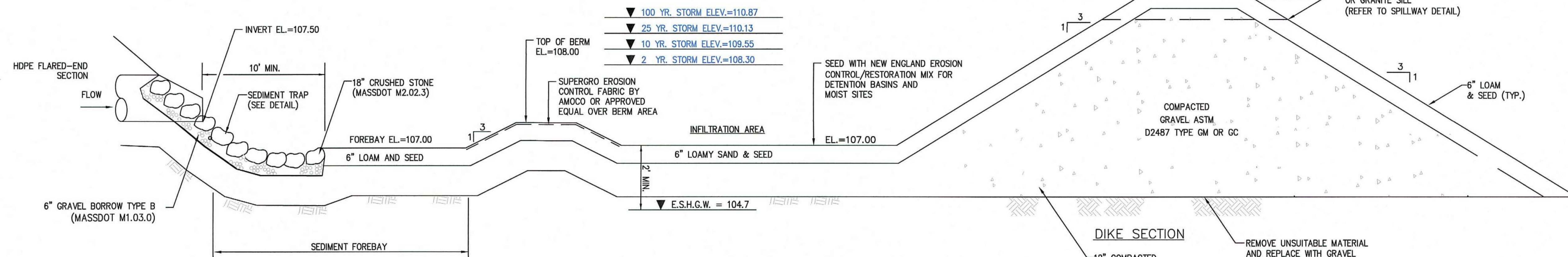
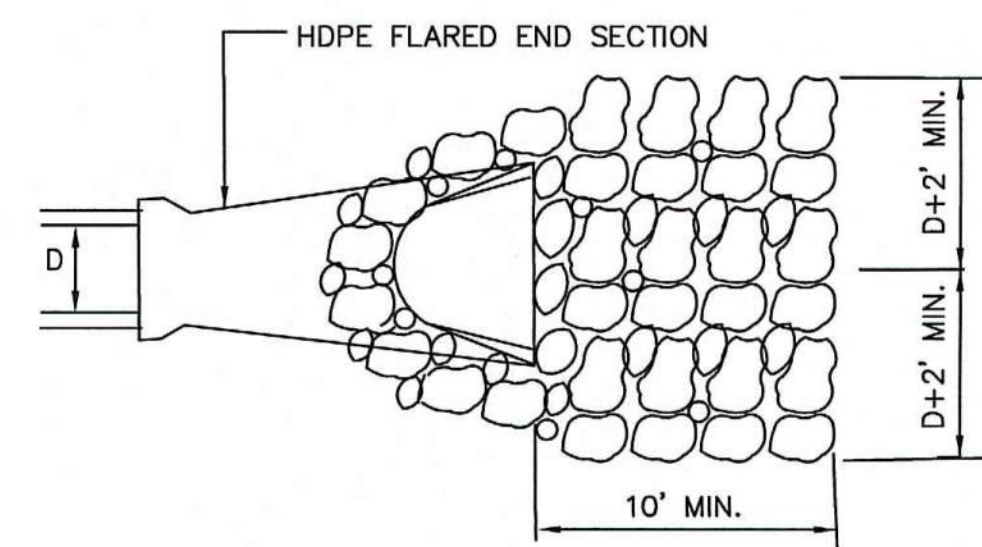
BITUMINOUS CONCRETE SIDEWALK AT OAK STREET
SCALE: N.T.S.



PEA GRAVEL DIAPHRAM
SCALE: N.T.S.



SEDIMENT TRAP DETAIL
SCALE: N.T.S.

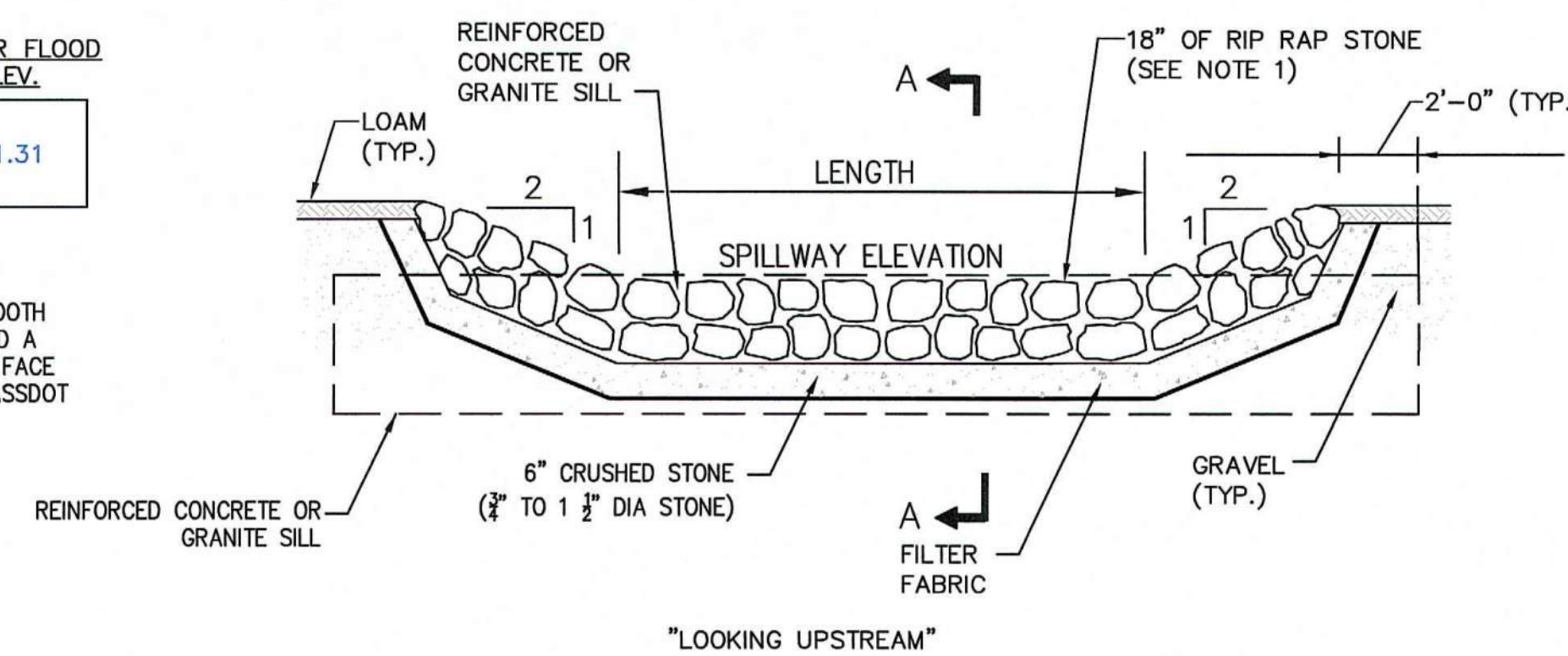


INFILTRATION BASIN SECTION
SCALE: N.T.S.

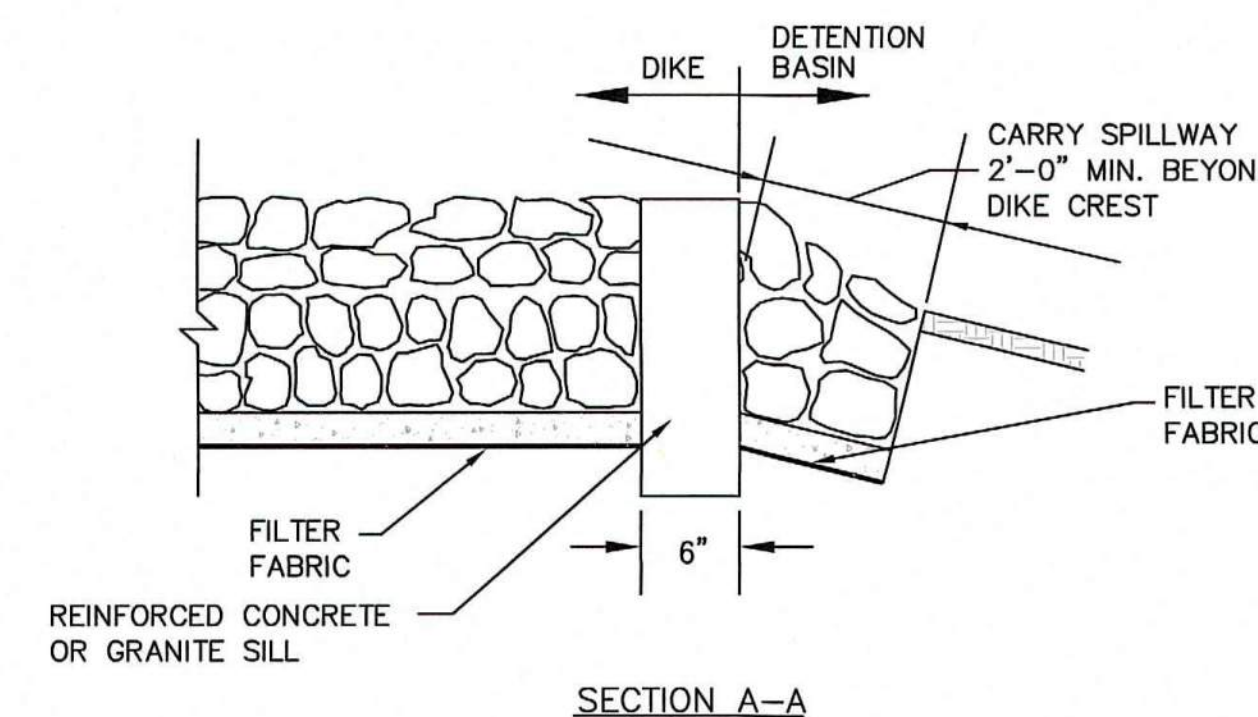
SPILLWAY SCHEDULE

BASIN	SPILLWAY ELEV.	LENGTH	100-YR FLOOD ELEV.
IB-1	111.29	10 FT	111.31

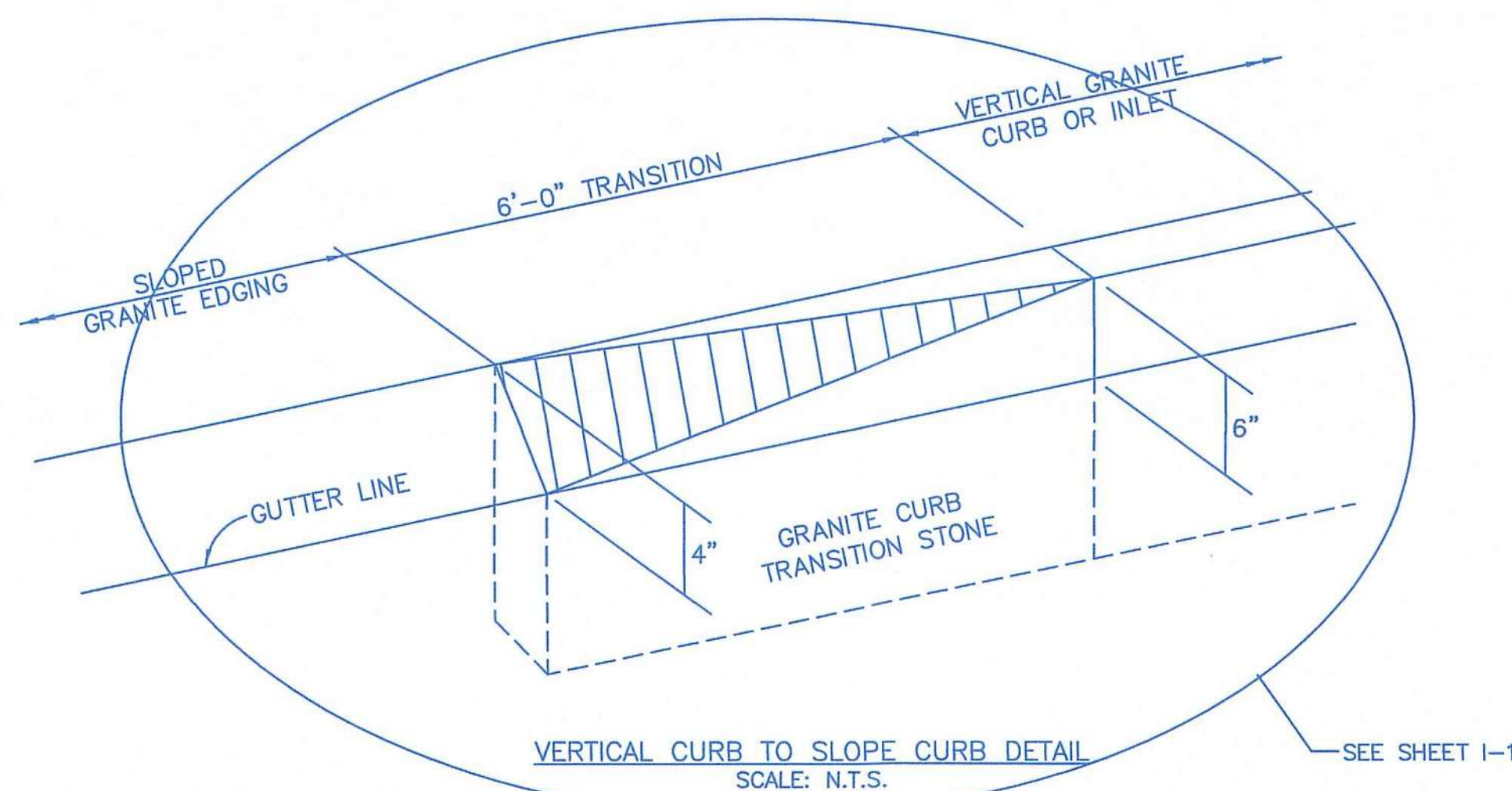
- NOTE:
- RIP RAP TO BE HAND CHINKED WITH A SMOOTH SURFACE ALONG THE TOP OF THE DIKE AND A ROUGH SURFACE ALONG THE DOWNSTREAM FACE AND TOE OF THE DIKE. STONE TO MEET MASSDOT (M2.02.3) REQUIREMENTS.



SPILLWAY DETAIL
SCALE: N.T.S.



SECTION A-A



VERTICAL CURB TO SLOPE CURB DETAIL
SCALE: N.T.S.

SITE PLAN APPROVAL

DATE OF APPLICATION: _____
DATE OF HEARING: _____
DATE OF APPROVAL: _____
DATE OF ENDORSEMENT: _____

PEMBROKE PLANNING BOARD
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5	10-18-19	PLAN MODIFICATION	SBS	BCM
6	12-10-19	NO CHANGES THIS SHEET	SBS	BCM
7	1-27-2020	NO CHANGES THIS SHEET	SBS	BCM
8	3-4-2020	TRANSITION CURB DETAIL	SBS	BCM

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SITE DEVELOPMENT PLAN (PARCEL ID: G14-25F & G14-25G) 260-280 OAK STREET PEMBROKE, MASSACHUSETTS

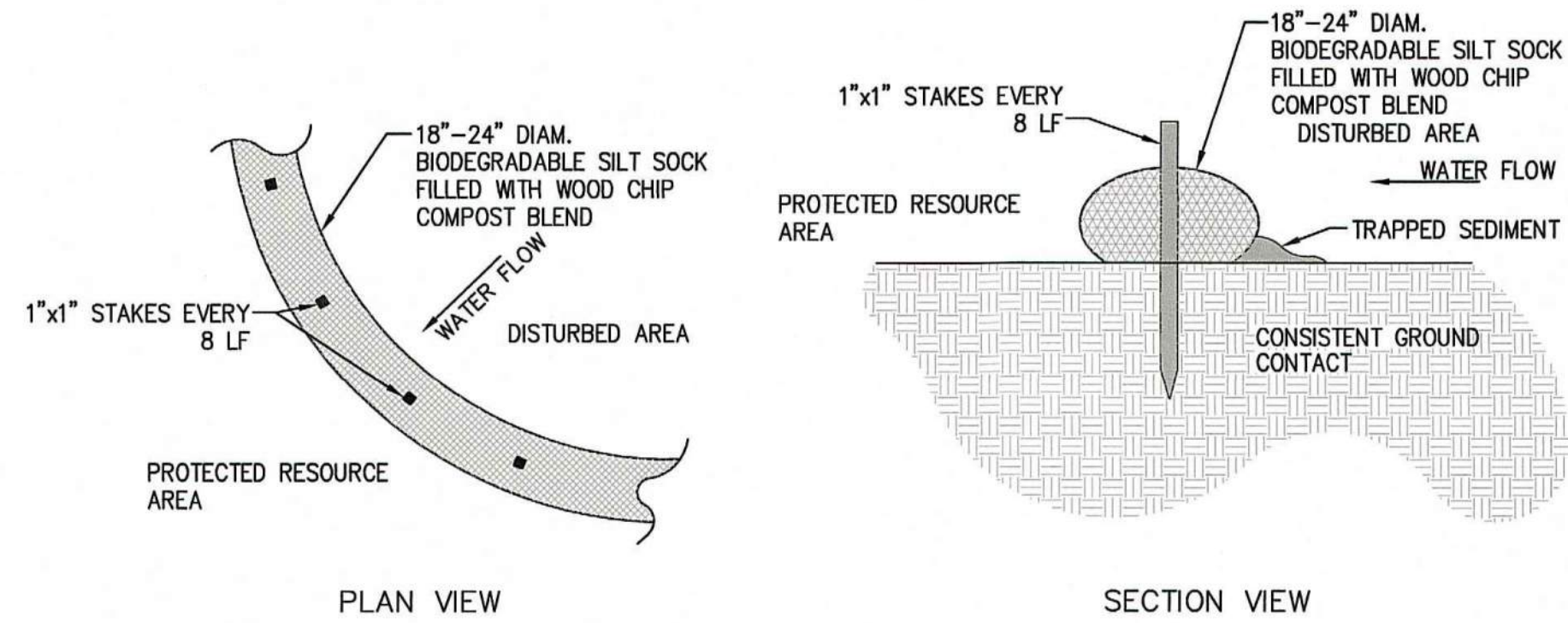


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293R Washington Street
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DRAWN BY: SBS
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CHECKED BY: ---
APPROVED BY: BCM
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SCALE: 1"=40'
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DWG. TITLE:

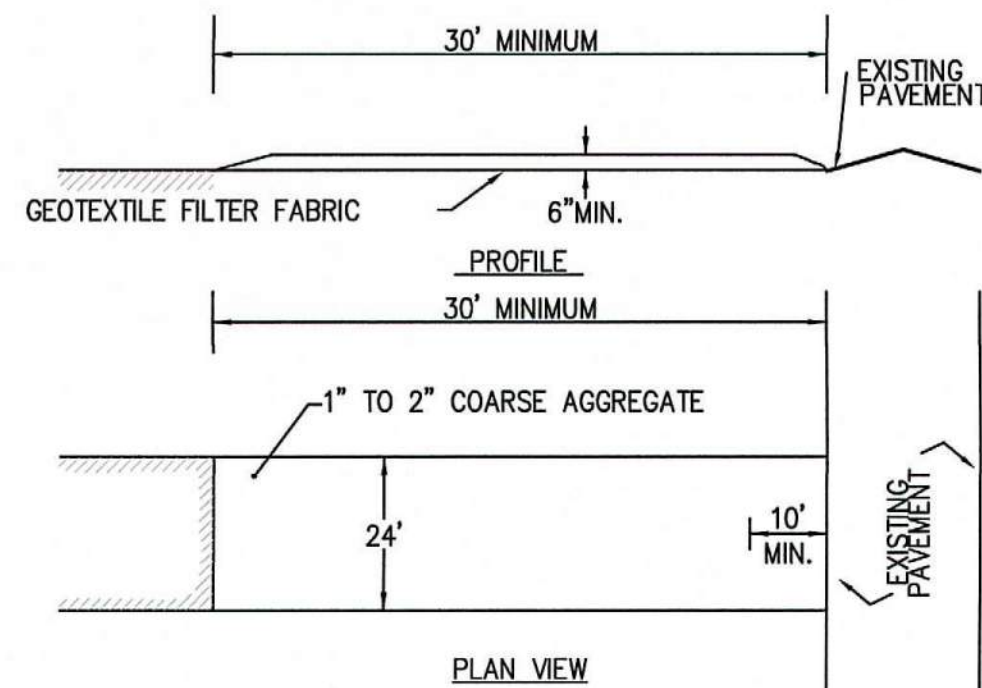
Construction Details III Phase I

DWG. NO.: **C-5**



- 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.

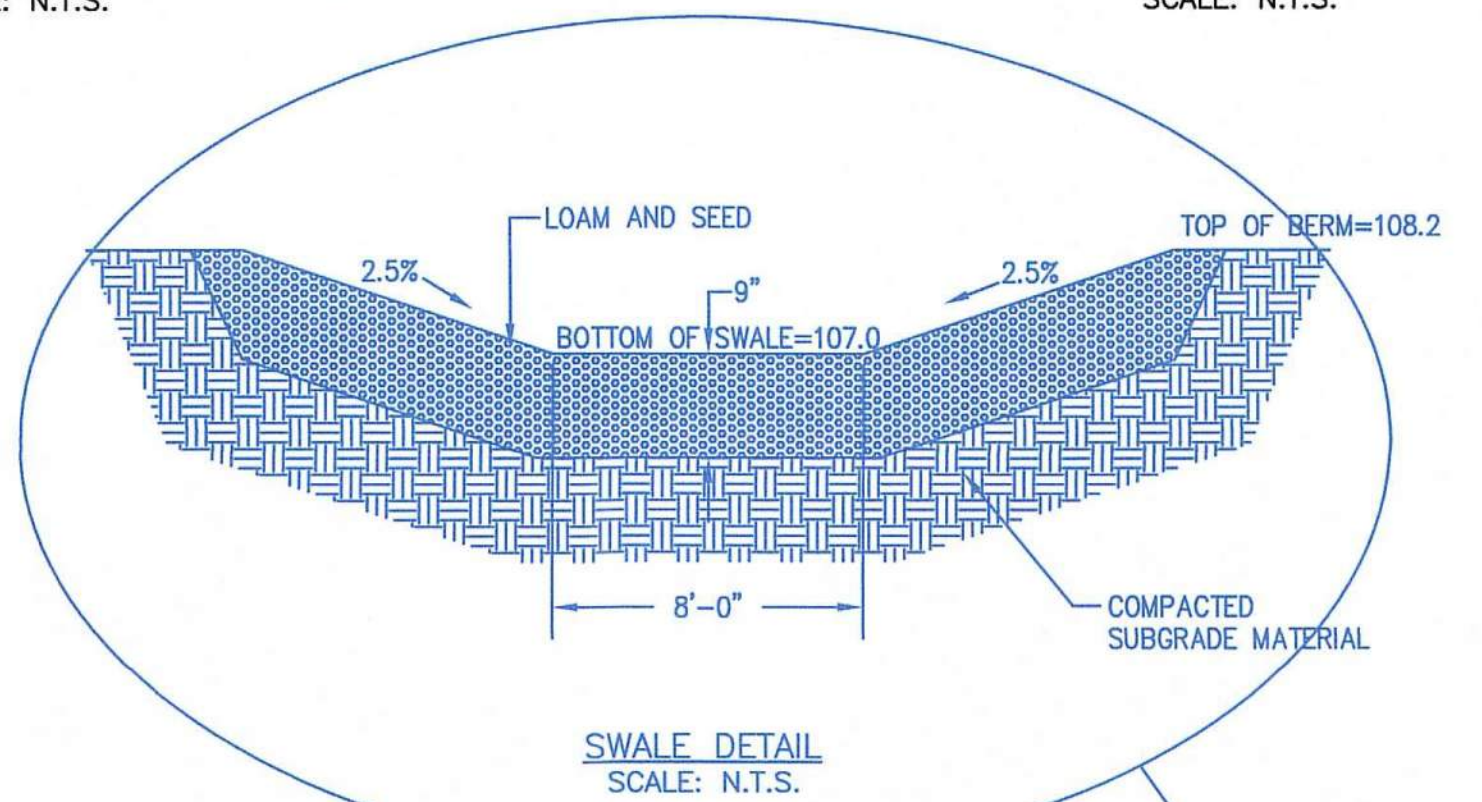
SILT SOCK DETAIL
SCALE: N.T.S.



(SCE) CONSTRUCTION SPECIFICATIONS:

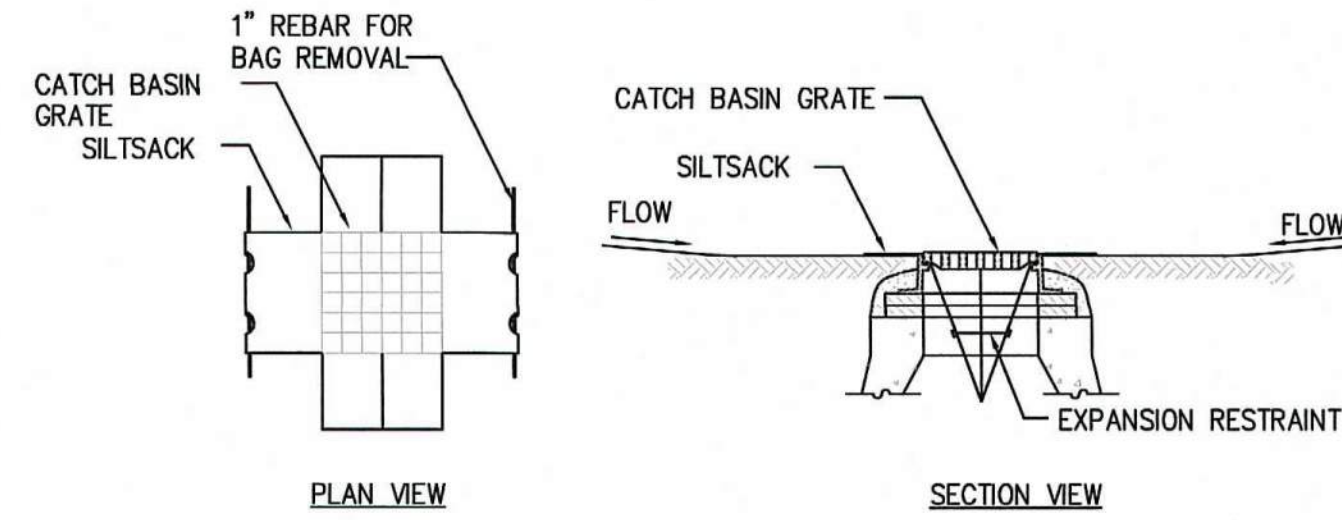
1. STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE 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.



DEWATERING FILTER DETAIL
SCALE: N.T.S.

DEWATERING METHODS SHALL BE EMPLOYED IN ANY AREA WHERE PUMPING OF GROUNDWATER IS NECESSARY TO CONSTRUCT THE PROPOSED PARKING LOT AND UTILITIES. DETAILS SHOWN ON THIS PLAN SHALL BE USED AND ANY MODIFICATION SHALL BE APPROVED BY THE TOWN OF PEMBROKE.



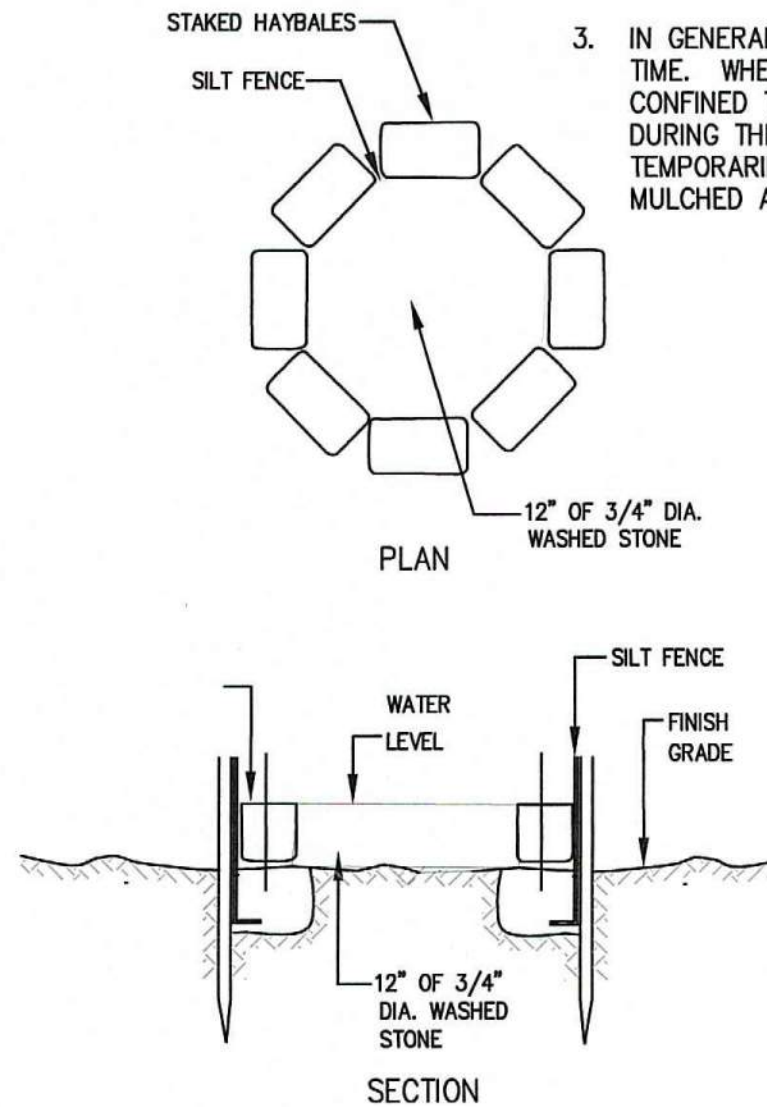
SILT SACK SEDIMENT TRAP CONSTRUCTION NOTES:

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 DETAIL
SCALE: N.T.S.

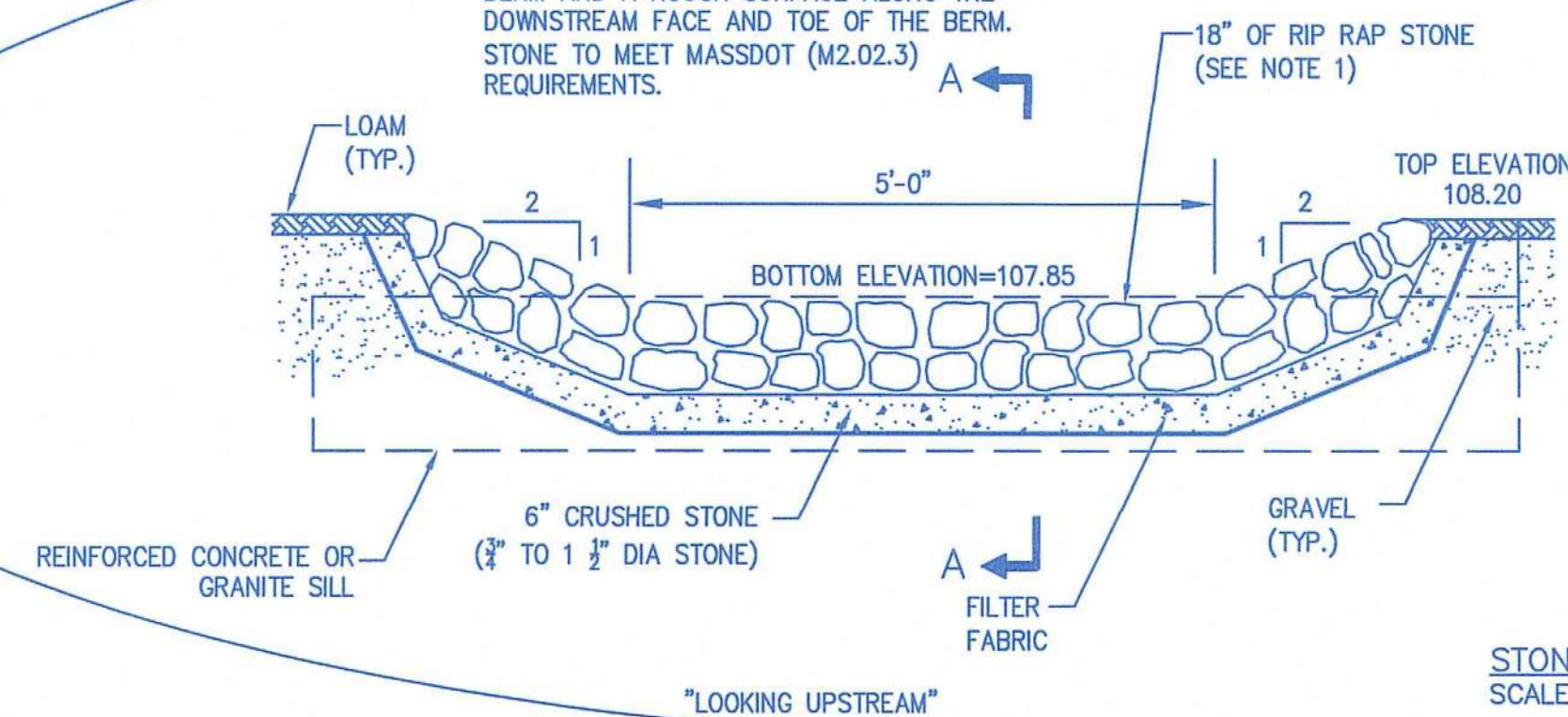
EROSION AND SEDIMENTATION CONTROL

1. STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE SILT SOCK BARRIER CONTROLS, STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY DIVERSION SWALES WITH STONE CHECK DAMS, SEDIMENT BASINS, AND INLET PROTECTION.
2. STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING.
3. IN GENERAL, THE SMALLEST POSSIBLE AREA OF LAND SHOULD BE EXPOSED AT ONE TIME. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE CONFINED TO A MAXIMUM PERIOD OF 3 MONTHS. LAND SHALL NOT BE EXPOSED DURING THE WINTER MONTHS. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND THAT WILL BE REGRADED AT A LATER DATE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH WINTER RYE TO PREVENT EROSION.

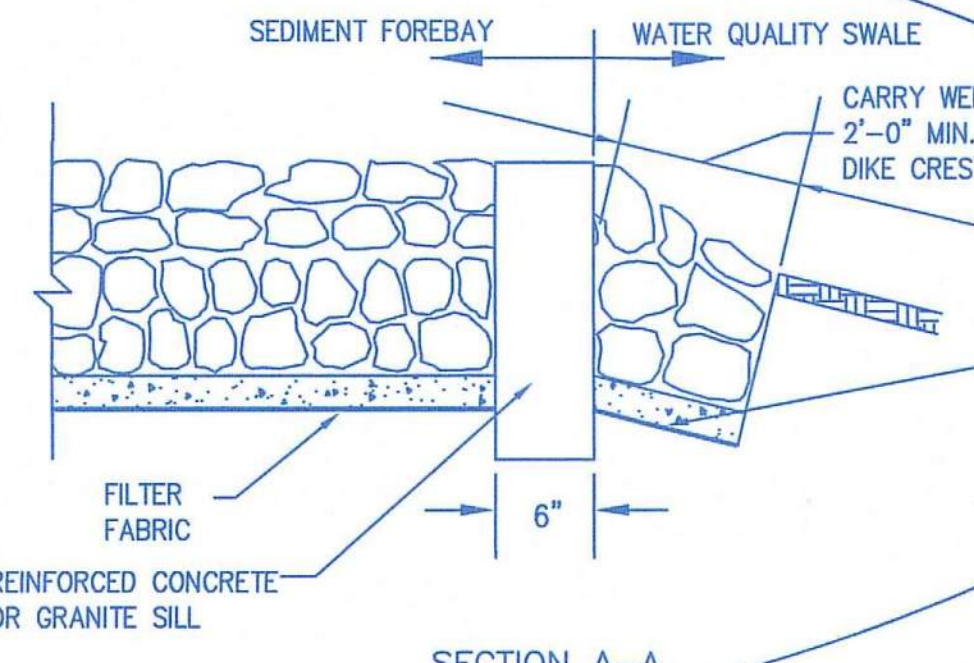


NOTE:

1. RIP RAP TO BE HAND CHINKED WITH A SMOOTH SURFACE ALONG THE TOP OF THE BERM AND A ROUGH SURFACE ALONG THE DOWNSTREAM FACE AND TOE OF THE BERM. STONE TO MEET MASSDOT (M2.02.3) REQUIREMENTS.

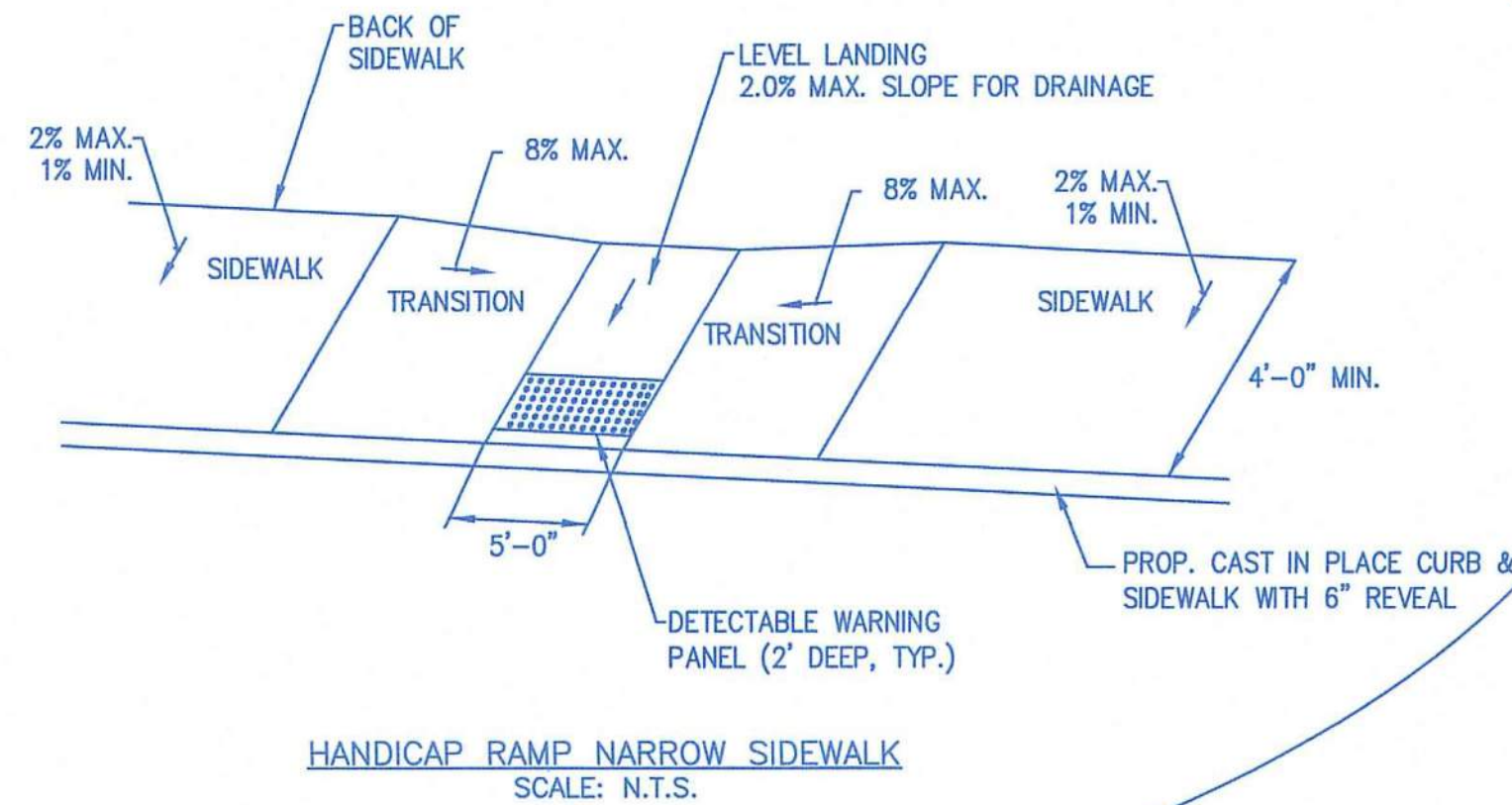
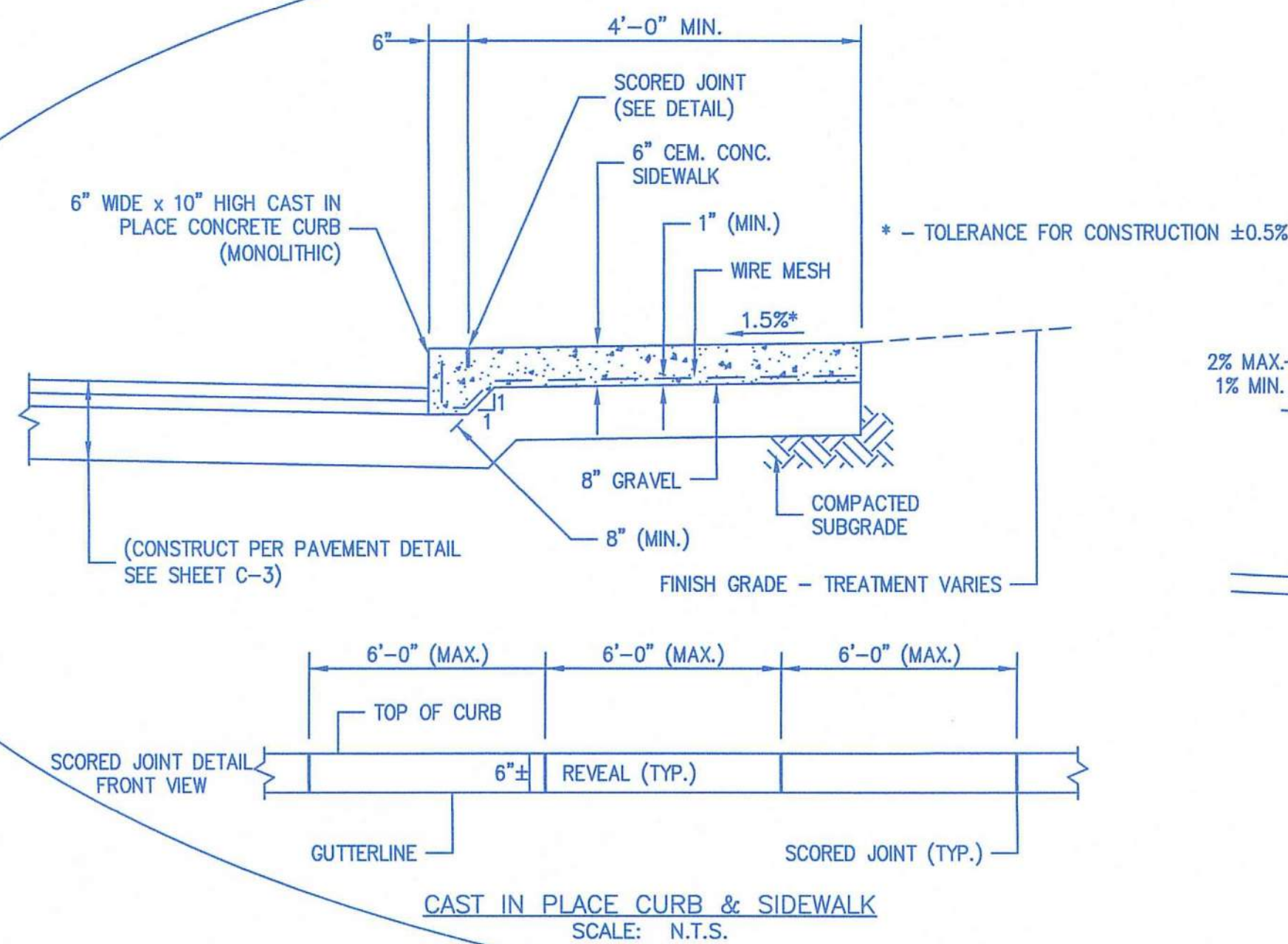


STONE WEIR
SCALE: N.T.S.



SECTION A-A

SEE SHEET C-2



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SITE PLAN APPROVAL

DATE OF APPLICATION: _____

DATE OF HEARING: _____

DATE OF APPROVAL: _____

DATE OF ENDORSEMENT: _____

PEMBROKE PLANNING BOARD

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE PEMBROKE ZONING BY-LAW.

I, _____, TOWN CLERK OF THE TOWN OF PEMBROKE, MA, HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE NEXT TWENTY DAYS AFTER RECEIPT AND RECORDING OF SAID NOTICE.

DATE _____ TOWN CLERK _____

REV	DATE	DESCRIPTION	BY	APP
1	6-6-17	PEER REVIEW COMMENTS	SBS	BCM
2	6-13-17	PEER REVIEW COMMENTS	SBS	BCM
3	6-14-18	PLAN MODIFICATION REVISED DRAINAGE	SBS	BCM
4	7-30-18	NO CHANGES THIS SHEET	SBS	BCM
5	10-18-19	PLAN MODIFICATION	SBS	BCM
6	12-10-19	PEER REVIEW COMMENTS	SBS	BCM
7	1-27-2020	NO CHANGES THIS SHEET	SBS	BCM
8	3-4-2020	NO CHANGES THIS SHEET	SBS	BCM



SITE DEVELOPMENT PLAN
(PARCEL ID: G14-25F & G14-25G)
260-280 OAK STREET
PEMBROKE, MASSACHUSETTS



OWNER:
Grissom Park Co., LLP
293R Washington Street
Norwell, Massachusetts 02061

DRAWN BY: SBS
DESIGNED BY: --
CHECKED BY: --
APPROVED BY: BCM
DATE: MARCH 22, 2017
SCALE: 1"=40'
PROJECT NO.: 215-105
DWG. TITLE:

Erosion Control Plan
Phase I

DWG. NO.: **C-6**