

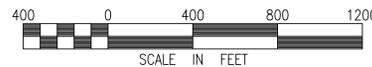
BISHOPS LANE DEFINITIVE SUBDIVISION PLAN

ASSESSORS MAP 70 LOTS 20 AND 22 HINGHAM, MASSACHUSETTS

SHEET	DESCRIPTION
C1.1	COVER / INDEX
C2.1	EXISTING CONDITIONS PLAN
C3.1	LOTING PLAN
C4.1	ROADWAY PLAN AND PROFILE
C5.1	GRADING/LOT DEVELOPMENT PLAN
C6.1	UTILITY PLAN
C7.1-C7.6	CONSTRUCTION DETAIL PLAN



— PROJECT AREA MAP —
SCALE: 1"=200'



PLANNING BOARD WAIVER REQUESTS:

ALL WORK MUST BE CONSTRUCTED IN COMPLIANCE WITH SECTION 5 OF THE PLANNING BOARD RULES AND REGULATIONS AS AMENDED THROUGH AUGUST 18, 2014, EXCEPT AS WAIVED HEREIN;

- SECTION 4 - B(3)(a) - MINIMUM STOPPING SIGHT DISTANCE. REQUEST TO WAIVE THE MIN. STOPPING SIGHT DISTANCE OF 250 FT FOR MINOR STREET. ALLOW MIN. 146 FT STOPPING SIGHT DISTANCE TO MEET EXISTING SITE TOPOGRAPHY.
- SECTION 4 - B(3)(a) & TABLE 1 - MAXIMUM CENTERLINE GRADE. REQUEST TO WAIVE THE MAXIMUM CENTERLINE GRADE OF 8% ALLOW MAXIMUM CENTERLINE GRADE OF 10% TO MEET EXISTING SITE TOPOGRAPHY.
- SECTION 4 - B(3)(f) - LEVELING AREA. REQUEST TO WAIVE THE LEVELING AREA WITH MAXIMUM 3% GRADE FOR 100 FT AT INTERSECTION. ALLOW TO MAINTAIN EXISTING LEVELING AREA WITH 4.5% GRADE AT BISHOPS LANE AND SOUTH STREET INTERSECTION TO MINIMIZE IMPACT TO ADJUTING PROPERTIES.
- SECTION 4 - G - SIDEWALKS. REQUEST TO WAIVE SIDEWALK REQUIREMENT. ALLOW NO PROPOSED SIDEWALK.
- SECTION 5 - B4, STREET TREES. REQUEST TO WAIVE 50' ON CENTER SPACING REQUIREMENT FOR STREET TREES. ALLOW STREET TREES TO BE PLANTED ONLY IN FEASIBLE LOCATIONS SHOWN ON THE PLAN (REFER SHEET C5.1)

RECORD OWNER:
ASSESSORS MAP 70 LOTS 20 AND 22
YOUNG FAMILY TRUST
DEED BOOK 51869 PAGE 119
DEED BOOK 48690 PAGE 288

PLAN REFERENCES:
1. PLAN BOOK 3354 PAGE 436

FOR REGISTRY USE ONLY

HINGHAM PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED: _____

DATE SIGNED: _____

THIS APPROVAL IS SUBJECT TO A COVENANT DULY EXECUTED DATED _____ RUNNING WITH THE LAND TO BE DULY RECORDED BY OR FOR THE OWNER OF THE RECORD. THE COVENANT IS RECORDED AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS, RECORDED IN BOOK _____ PAGE _____

HINGHAM TOWN CLERK

I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

DATE: _____

TOWN CLERK, TOWN OF HINGHAM

REVISIONS



DRAWN BY: JG

DESIGNED BY: DK

CHECKED BY: DK



Merrill
Engineers and Land Surveyors
427 COLUMBIA ROAD, HANOVER, MA 02339 / T: (781) 826-9200
26 UNION STREET, PLYMOUTH MA 02360 / T: (508) 746-6060
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DEFINITIVE SUBDIVISION PLAN
16 BISHOPS LANE
HINGHAM, MASSACHUSETTS
PREPARED FOR: YOUNG FAMILY TRUST
16 BISHOPS LANE
HINGHAM, MA 02043

MARCH 24, 2023

SCALE: AS NOTED

JOB No. 17-360

LATEST REVISION:

COVER AND INDEX

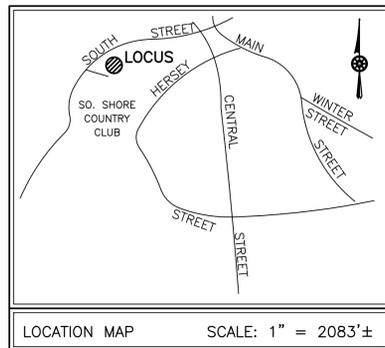
SHEET C1.1

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

Douglas A. Aberg
DOUGLAS ABERG, P.L.S.
DATE: 3/24/23

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FLOOD NOTE:
 BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP, AS SHOWN ON COMMUNITY MAP No. 25023C0082J, WHICH BEARS AN EFFECTIVE DATE OF JULY 17, 2012, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

RECORD OWNER:
 ASSESSORS MAP 70 LOTS 20 AND 22
 #16 BISHOPS LANE

YOUNG FAMILY TRUST
 16 BISHOPS LANE
 HINGHAM, MA 02043
 DEED BOOK 51869 PAGE 119
 DEED BOOK 48690 PAGE 288

PLAN REFERENCE
 PLAN BOOK 3354, PAGE 436

NOTES:

- PROPERTY LINE, STREET LINE AND OWNER INFORMATION WAS COMPILED FROM RECORDS ON FILE AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS AND THE TOWN OF HINGHAM ASSESSORS DEPARTMENT.
- TOPOGRAPHY AND DETAIL INFORMATION SHOWN HEREON IS BASED UPON AN ON THE GROUND SURVEY PERFORMED BY MERRILL ENGINEERS AND LAND SURVEYORS BETWEEN DECEMBER OF 2017 AND JUNE OF 2018.
- WETLAND RESOURCE AREAS WERE DELINEATED BY ENVIRONMENTAL CONSULTING AND RESTORATION, LLC AND FIELD LOCATED BY MERRILL ENGINEERS AND LAND SURVEYORS.
- SUBJECT SITE IS IN THE "RESIDENCE A" ZONE AS DEPICTED ON THE TOWN OF HINGHAM ZONING MAP.
- EXISTING UTILITIES, WHERE SHOWN, HAVE BEEN COMPILED BASED ON OBSERVED ABOVE GROUND EVIDENCE AND AVAILABLE RECORD PLANS AND ARE TO BE CONSIDERED APPROXIMATE. MERRILL ENGINEERS AND LAND SURVEYORS DOES NOT GUARANTEE THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN OR THAT ALL EXISTING UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN.
- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
- THE NOTATION OF THE GARDEN SHOWN HEREON IS NOT AN INDICATION OF RIGHTS INCONSISTENT WITH THOSE OF THE OWNER OF RECORD.

LEGEND

EXISTING	DESCRIPTION
— 30 —	1' CONTOUR
+30.5	SPOT ELEVATION
EOP	EDGE OF PAVEMENT
CCB	CAPE COD BERM
— — —	EDGE OF GRAVEL
— — —	BRICK WALK
— — —	RETAINING WALL
— — —	WATER LINE
— — —	GAS LINE
— — —	OVERHEAD WIRE
— — —	STONE WALL
— — —	FENCE
100' WETLAND BUFFER	100 FT WETLAND BUFFER
50' WETLAND BUFFER	50 FT WETLAND BUFFER
△ WFA5	UPLAND
△ WFA6	WETLAND
— — —	HYDRANT
— — —	WATER GATE
— — —	GAS GATE
— — —	GAS METER
— — —	LIGHT
— — —	UTILITY POLE
— — —	SEWER MANHOLE
— — —	UNIDENTIFIED MANHOLE
— — —	CATCH BASIN
— — —	FLAG POLE
— — —	SIGN
— — —	MAILBOX

HINGHAM TOWN CLERK

I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

DATE: _____
 TOWN CLERK, TOWN OF HINGHAM

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

Douglas Aberg 3/24/23
 DOUGLAS ABERG, P.L.S. DATE

HINGHAM PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

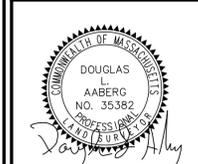
APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED
 DATE APPROVED: _____

DATE SIGNED: _____

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REVISIONS



DRAWN BY: JG

DESIGNED BY: DK

CHECKED BY: DK

Merrill
 Engineers and Land Surveyors
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DEFINITIVE SUBDIVISION PLAN
 #16 BISHOPS LANE
 HINGHAM, MASSACHUSETTS
 PREPARED FOR: YOUNG FAMILY TRUST
 16 BISHOPS LANE
 HINGHAM, MA 02043

MARCH 24, 2023

SCALE: AS NOTED

JOB No. 17-360

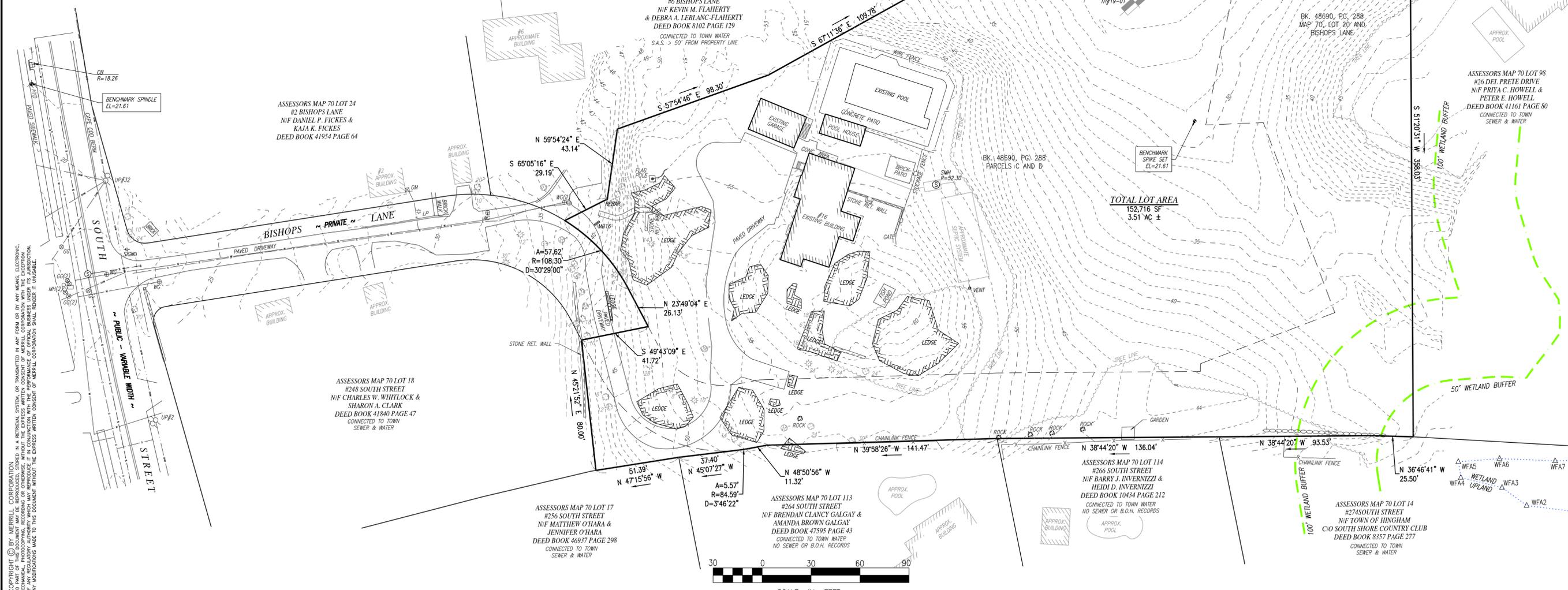
LATEST REVISION:

EXISTING CONDITIONS PLAN

SHEET C2.1

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ZONING DATA

DISTRICT: RESIDENCE A

ZONING REQUIREMENTS:

LOT AREA	20,000 S.F.
LOT FRONTAGE	125'
MAX. HEIGHT	35' (2.5 STORIES)
MAX. STRUCTURE COVERAGE	N/A
FRONT SETBACK (AVG OF ADJOINING)	25'
SIDE SETBACK	15'
REAR SETBACK	15'
PARKING	2 SPACES
PERP. STALL SIZE	9' x 18'

ROADWAY DATA

ROADWAY TYPE: MINOR STREET

MINIMUM DESIGN STANDARDS:

WIDTH OF RIGHT OF WAY	46 FT
WIDTH OF TRAVELED WAY	22 FT
EDGE TREATMENT	12" CAPE CODE BERM EACH SIDE
SIDEWALK	5 FT WIDE, ONE SIDE
MINIMUM CENTERLINE RADII	200 FT
MAXIMUM CENTERLINE GRADE	8%
MINIMUM CENTERLINE GRADE	1%
MAXIMUM CURB RADIUS AT STREET INTERSECTION	30 FT
MIN. LENGTH OF TANGENT BETWEEN REVERSE CURVES	0 FT
DEPTH OF PAVEMENT	3" BASE, 1.5" TOP
SUB-BASE	24"-8" LIFTS

PROPOSED:

46 FT (PROPOSED ROADWAY)	46 FT
22 FT	22 FT
12" CAPE CODE BERM EACH SIDE	12" CAPE CODE BERM EACH SIDE
NO SIDEWALK - WAIVER REQUESTED	NO SIDEWALK - WAIVER REQUESTED
200 FT	200 FT
10%	10%
1%	1%
30 FT	30 FT
0 FT	0 FT
3" BASE, 1.5" TOP	3" BASE, 1.5" TOP
24"-8" LIFTS	24"-8" LIFTS

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

Douglas Aaberg
DOUGLAS AABERG, P.L.S.



3/24/23
DATE

HINGHAM TOWN CLERK

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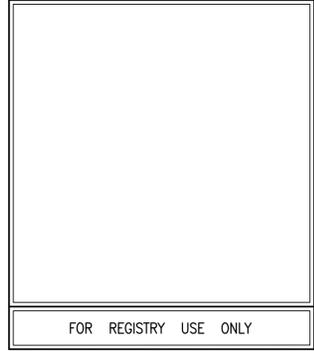
DATE: _____
TOWN CLERK, TOWN OF HINGHAM

HINGHAM PLANNING BOARD

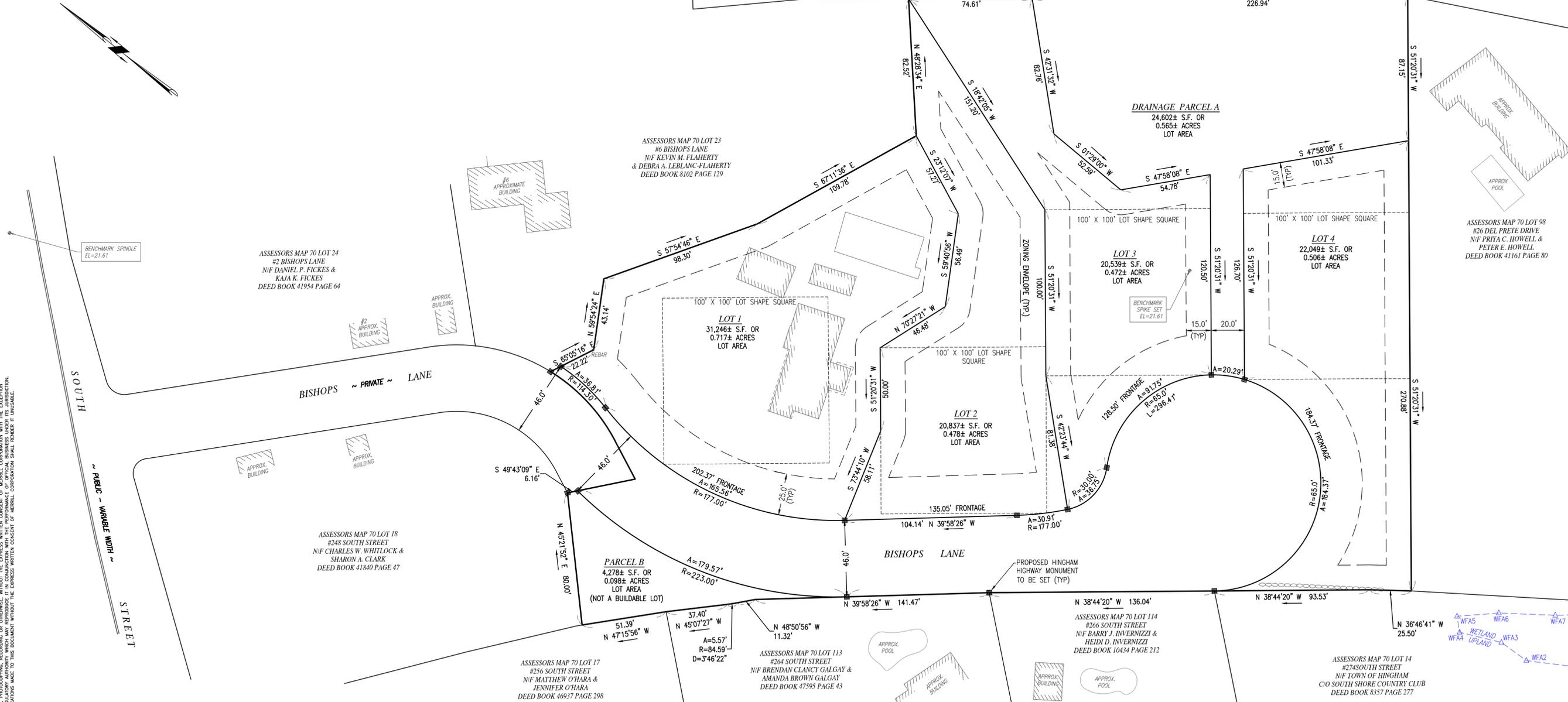
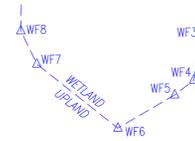
APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED
DATE APPROVED: _____
DATE SIGNED: _____

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ASSESSORS MAP 70 LOT 97
#23 DEL PRETE DRIVE
N/F DAVID J. GRIFFIN &
KATHY M. GRIFFIN
DEED BOOK 13366 PAGE 311



REVISIONS



DRAWN BY: JG
DESIGNED BY: DK
CHECKED BY: DK

Merrill
Engineers and Land Surveyors
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WWW.MERRILLINC.COM

DEFINITIVE SUBDIVISION PLAN
#16 BISHOPS LANE
HINGHAM, MASSACHUSETTS
PREPARED FOR: YOUNG FAMILY TRUST
16 BISHOPS LANE
HINGHAM, MA 02043

MARCH 24, 2023
SCALE: AS NOTED
JOB No. 17-360
LATEST REVISION:

LOTING PLAN
SHEET C3.1

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DEFINITIVE SUBDIVISION PLAN
 # 16 BISHOPS LANE
 HINGHAM, MASSACHUSETTS
 PREPARED FOR: YOUNG FAMILY TRUST
 16 BISHOPS LANE
 HINGHAM, MA 02043

MARCH 24, 2023
 SCALE: AS NOTED
 JOB No. 17-360
 LATEST REVISION:
ROADWAY PLAN AND PROFILE
 SHEET C4.1

FOR REGISTRY USE ONLY

HINGHAM PLANNING BOARD
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 TOWN CLERK, TOWN OF HINGHAM

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Douglas Aberg
 DOUGLAS ABERG, P.L.S.
 3/24/23
 DATE

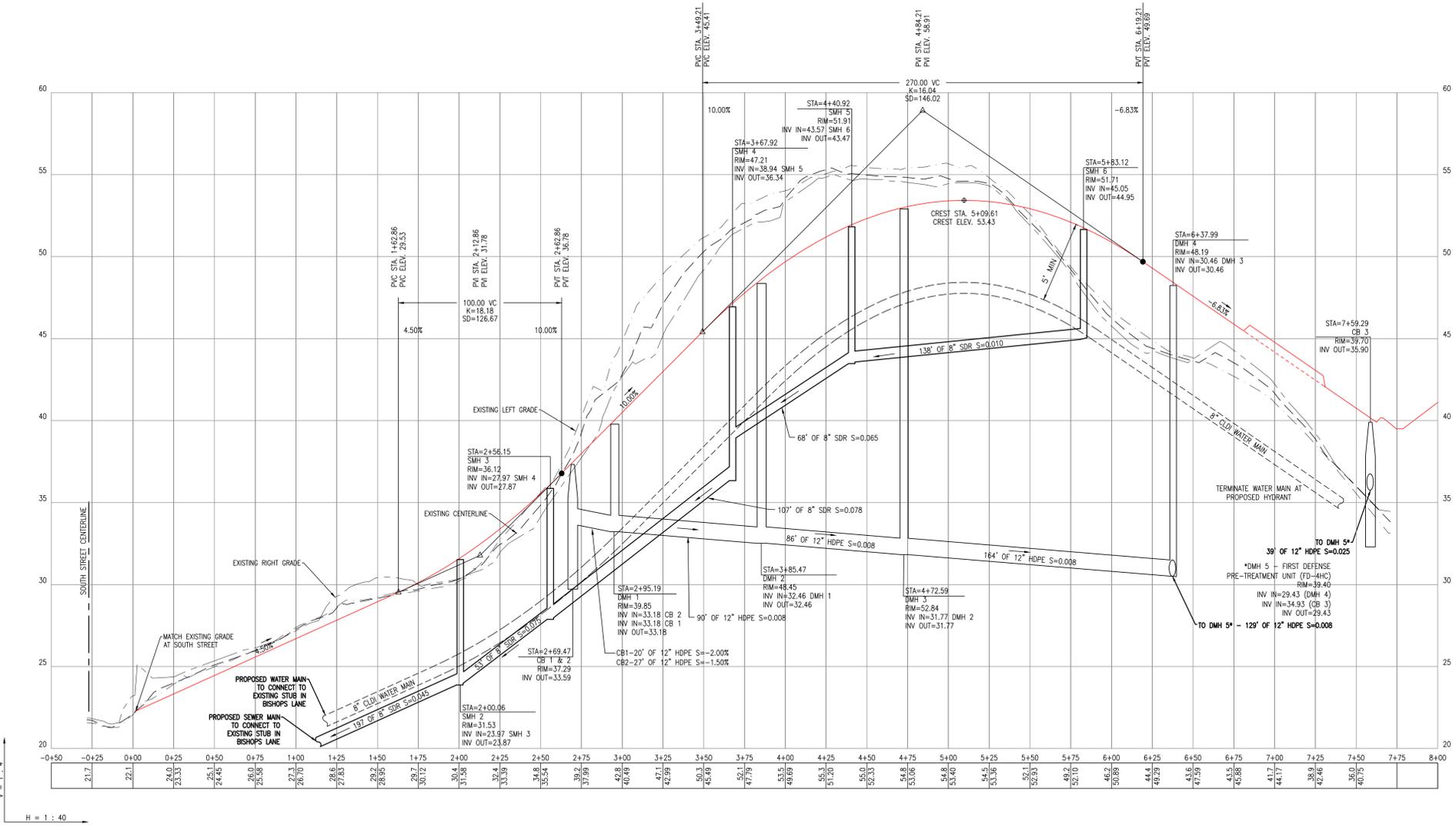
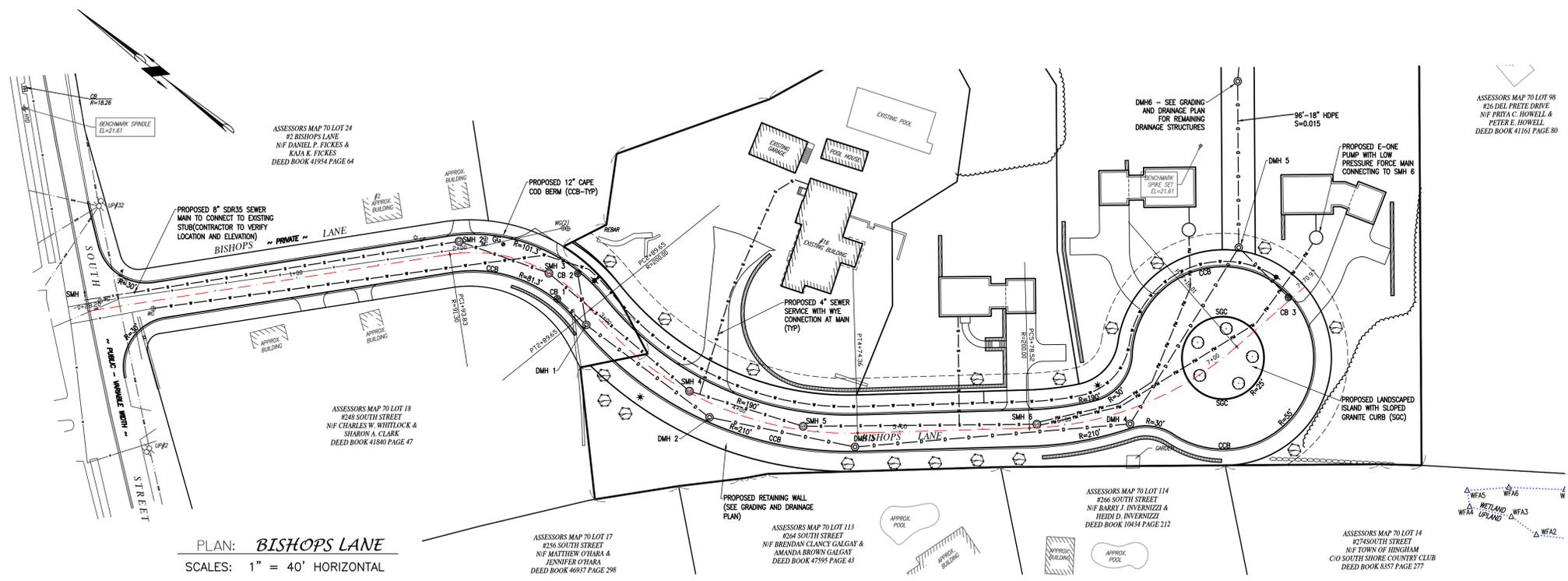
NOTES:

1. THE STREET SIGN, TRAFFIC CONTROL SIGNS AND DECORATIVE LIGHT POST SHALL BE INSTALLED SO AS TO NOT CAUSE SIGHT LINE OBSTRUCTION. ALL SIGNAGE WILL COMPLY WITH MUTCD STANDARDS.
2. BISHOPS LANE'S SEWER SYSTEM IS PRIVATE.
3. REFER TO SHEET C5.1 FOR GRADES AROUND THE TURNAROUND.

ROADWAY DATA

ROADWAY TYPE: MINOR STREET	MINIMUM DESIGN STANDARDS:	PROPOSED:
WIDTH OF RIGHT OF WAY	46 FT	46 FT (PROPOSED ROADWAY)
WIDTH OF TRAVELED WAY	22 FT	22 FT
EDGE TREATMENT	12" CAPE CODE BERM EACH SIDE	12" CAPE CODE BERM EACH SIDE
SIDEWALK	5 FT WIDE, ONE SIDE	NO SIDEWALK - WAIVER REQUESTED
MINIMUM CENTERLINE RADI	200 FT	200 FT
MAXIMUM CENTERLINE GRADE	8%	10%
MINIMUM CENTERLINE GRADE	1%	1%
MAXIMUM CURB RADIUS AT STREET INTERSECTION	30 FT	30 FT
MIN. LENGTH OF TANGENT BETWEEN REVERSE CURVES	0 FT	0 FT
DEPTH OF PAVEMENT	3" BASE, 1.5" TOP	3" BASE, 1.5" TOP
SUB-BASE	24"-8" LIFTS	24"-8" LIFTS

PROFILE: **BISHOPS LANE**
 SCALES: 1" = 40' HORIZONTAL
 1" = 4' VERTICAL



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MARCH 24, 2023

SCALE: AS NOTED

JOB No. 17-360

LATEST REVISION:

GRADING / LOT DEVELOPMENT PLAN

SHEET C5.1

HINGHAM TOWN CLERK

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DATE: _____
TOWN CLERK, TOWN OF HINGHAM

HINGHAM PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED
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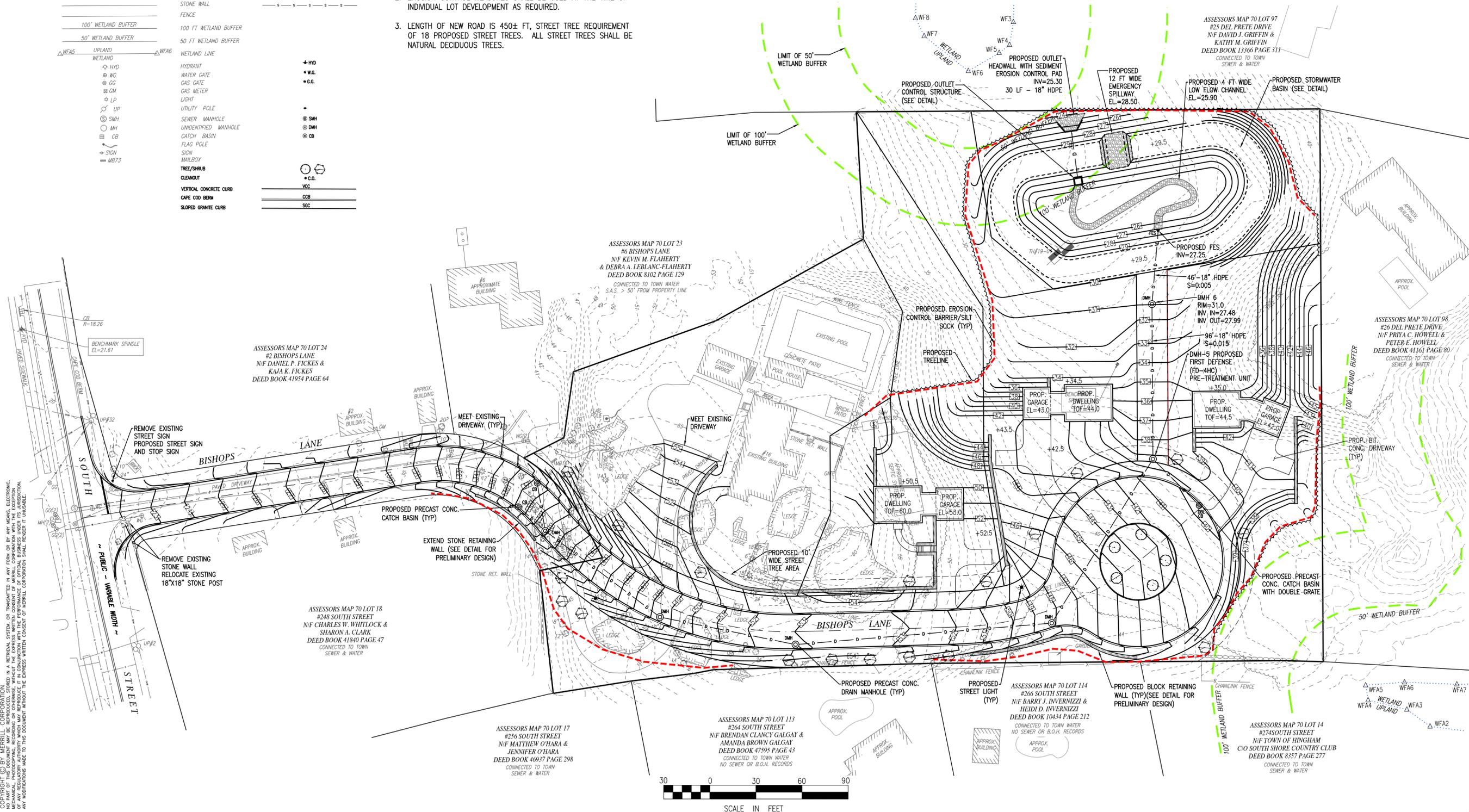
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Daugh J. Aberg
DOUGLAS ABERG, P.L.S.

3/24/23
DATE

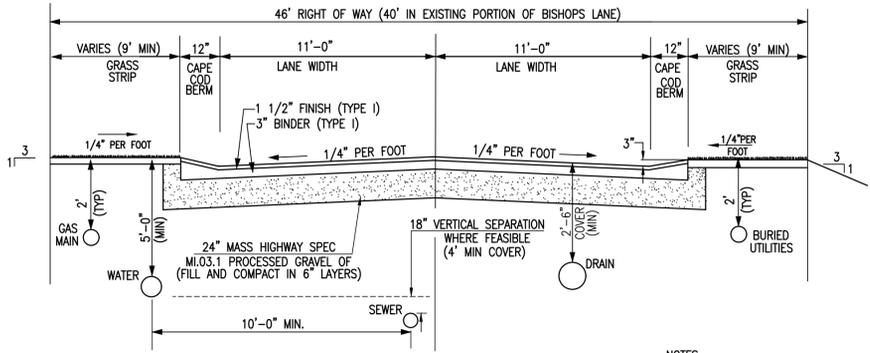
- NOTES:**
1. THE HOUSE LOCATIONS AND PROPOSED GRADING SHOWN ON THIS PLAN ARE CONCEPTUAL AND MAY CHANGE AT TIME OF INDIVIDUAL LOT DEVELOPMENT.
 2. EROSION CONTROL MEASURES SHALL BE USED AT THE TIME OF INDIVIDUAL LOT DEVELOPMENT AS REQUIRED.
 3. LENGTH OF NEW ROAD IS 450± FT, STREET TREE REQUIREMENT OF 18 PROPOSED STREET TREES. ALL STREET TREES SHALL BE NATURAL DECIDUOUS TREES.

LEGEND		PROPOSED	
EXISTING	DESCRIPTION	PROPOSED	DESCRIPTION
-30	1' CONTOUR	8	8" C.D.L. WATER MAIN
+30.5	SPOT ELEVATION	+30.5	12" HDPE
EDP	EDGE OF PAVEMENT		
CCB	CAPE COD BERM		
	EDGE OF GRAVEL		
	BRICK WALK		
RET WALL	RETAINING WALL		
	WATER LINE		
	GAS LINE		
	OVERHEAD WIRE		
	STONE WALL		
	FENCE		
100' WETLAND BUFFER	100 FT WETLAND BUFFER		
50' WETLAND BUFFER	50 FT WETLAND BUFFER		
WFA5	WETLAND LINE		
WFA6	WETLAND		
HYD	HYDRANT	HYD	HYDRANT
WG	WATER GATE	WG	WATER GATE
GG	GAS GATE	GG	GAS GATE
GM	GAS METER	GM	GAS METER
LP	LIGHT	LP	LIGHT
UP	UTILITY POLE	UP	UTILITY POLE
SMH	SEWER MANHOLE	SMH	SEWER MANHOLE
MH	UNIDENTIFIED MANHOLE	DMH	UNIDENTIFIED MANHOLE
CB	CATCH BASIN	CB	CATCH BASIN
SIGN	FLAG POLE		
MB73	MAILBOX		
	TREE/SHRUB		
	CLEANOUT		
	VERTICAL CONCRETE CURB		
	CAPE COD BERM		
	SLOPED GRANITE CURB		



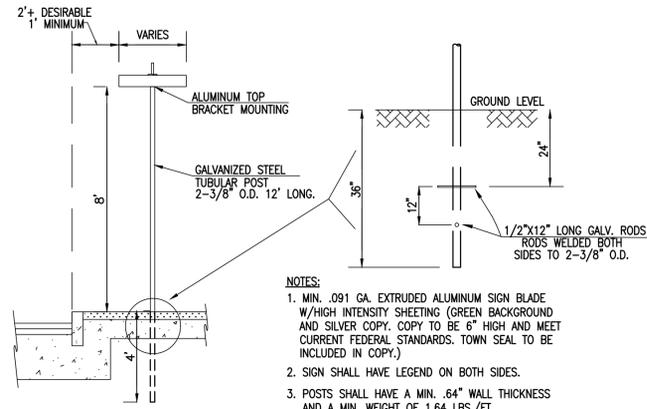
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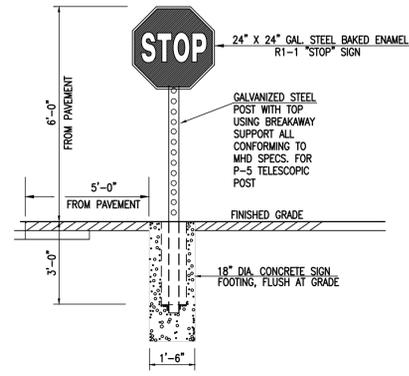
TYPICAL ROADWAY SECTION (PRIVATE LOCAL ROADWAY)
(NOT TO SCALE)

NOTES:
1. WATER AND SEWER WILL BE SEPARATED 10' MIN HORIZONTALLY WHERE FEASIBLE



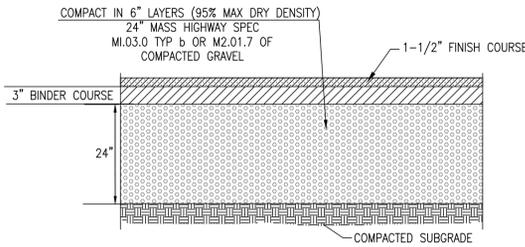
STREET SIGN DETAIL
(NOT TO SCALE)

NOTES:
1. MIN. .091 GA. EXTRUDED ALUMINUM SIGN BLADE W/HIGH INTENSITY SHEETING (GREEN BACKGROUND AND SILVER COPY. COPY TO BE 6" HIGH AND MEET CURRENT FEDERAL STANDARDS. TOWN SEAL TO BE INCLUDED IN COPY.)
2. SIGN SHALL HAVE LEGEND ON BOTH SIDES.
3. POSTS SHALL HAVE A MIN. .64" WALL THICKNESS AND A MIN. WEIGHT OF 1.64 LBS./FT.
4. STREET SIGNS ARE REQUIRED TO BE INSTALLED BY THE DEVELOPER, FOLLOWING THE INSTALLATION OF THE BASE COURSE OF THE ROADWAY.
5. ALL SIGNS SHALL BE MAINTAINED BY THE DEVELOPER UNTIL ALL WAYS ARE ACCEPTED BY THE TOWN.
6. STREET SIGN SHALL BE INSTALLED SO AS TO NOT CAUSE A SIGHTLINE CONCERN.



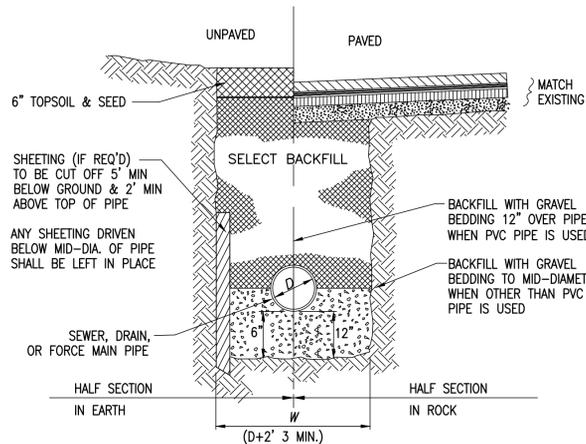
STOP SIGN DETAIL
(NOT TO SCALE)

NOTE:
1. ALL SIGNAGE SHALL COMPLY WITH MUTCD STANDARDS.

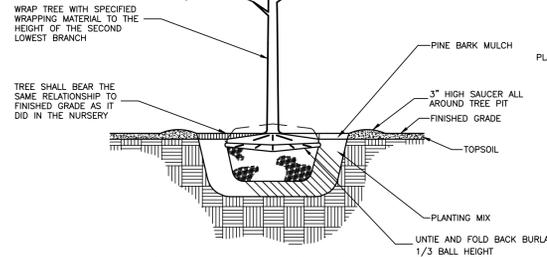


NOTE:
1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH CLEAN GRAVEL BASE (95% COMPACTION)
2. ALL DRIVEWAY AND PARKING AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS SPECIFICATIONS.

BITUMINOUS CONCRETE PAVEMENT
(NOT TO SCALE)



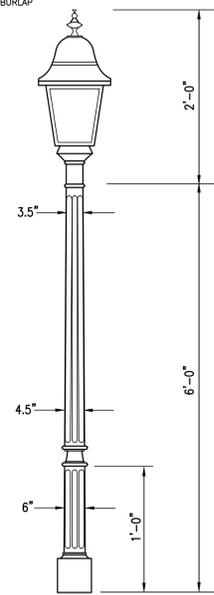
TYPICAL UTILITY TRENCH
(NOT TO SCALE)



TYPICAL TREE PLANTING
(NOT TO SCALE)

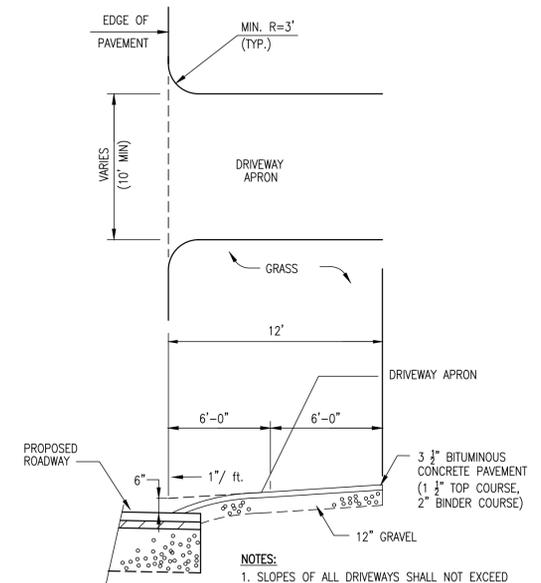
PROPOSED PLANTING NOTES:

- STREET TREES SHALL BE A MINIMUM OF 12" IN HEIGHT AND OF A SPECIES APPROVED BY THE SUPERINTENDENT OF PUBLIC WORKS. (ALL STREET TREES SHALL BE THE SAME SPECIES)
- STREET TREES SHALL HAVE A MINIMUM CALIPER OF 3" MEASURED AT 3' ABOVE GRADE.
- TOTAL PROPOSED STREET TREES = 18 TREES
- STREET TREES SHALL BE PLANTED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY (STREET TREE REQUIREMENTS SHALL BE SPECIFIED IN THE DEED).
- CUL-DE-SAC ISLAND SHALL HAVE NO TREES PLANTED ON IT THAT COULD GROW AND IMPEDE THE TURNING RADIUS OF A FIRE APPARATUS.
- ISLANDS SHALL BE COMPLETELY COVERED WITH LOW LYING, LOW MAINTENANCE SHRUBS AND GROUND COVER PLANTS.



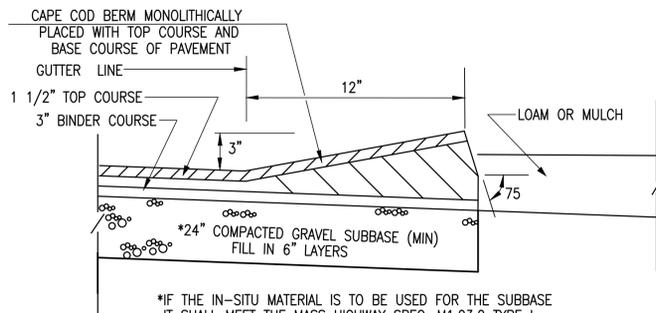
STREET LIGHT DETAIL
(NOT TO SCALE)

NOTES:
1. SPECIFIC LIGHT FIXTURE TO BE DETERMINED. THIS DETAIL IS FOR GENERAL DESCRIPTION ONLY.
2. THE LIGHT FIXTURE SHALL BE SHIELDED AND INSTALLED SO AS TO NOT SHINE IN THE ROADWAY.



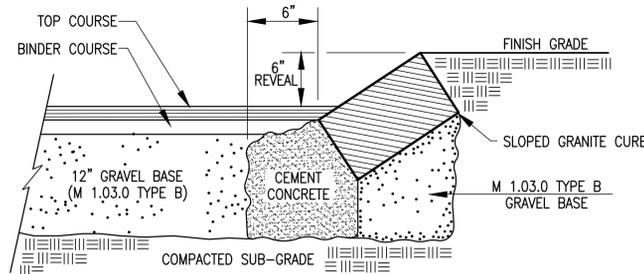
DRIVEWAY APRON DETAIL
(NOT TO SCALE)

NOTES:
1. SLOPES OF ALL DRIVEWAYS SHALL NOT EXCEED 10% WITHIN 75 FEET OF STREET LINE.

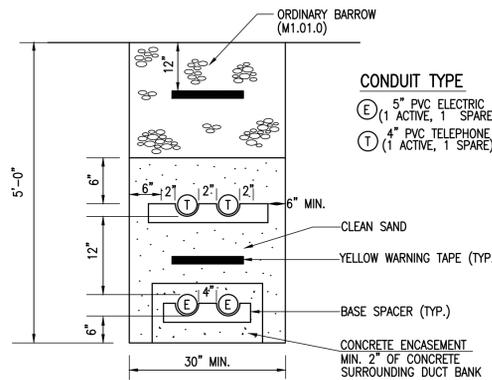


CAPE COD BERM DETAIL
(NOT TO SCALE)

*IF THE IN-SITU MATERIAL IS TO BE USED FOR THE SUBBASE IT SHALL MEET THE MASS HIGHWAY SPEC. M1.03.0 TYPE b OR M2.01.7



SLOPED GRANITE CURB
(NOT TO SCALE)

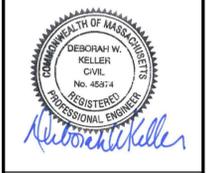


NOTE:
ELECTRIC/TELEPHONE/CABLE LOCATIONS AND DETAILS SHOWN ON THIS PLAN SET ARE NOT INTENDED FOR CONSTRUCTION PURPOSES. INDIVIDUAL UTILITY PROVIDERS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE ACTUAL INFRASTRUCTURE INCLUDING LOCATIONS OF HANDHOLES, VAULTS, ETC. THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH UTILITY PROVIDERS AND THE TOWN OF HINGHAM DPW.

COMMON TRENCH DETAIL
ELECTRIC/TELEPHONE/FIRE ALARM/CABLE
NOT TO SCALE

REVISIONS

NO.	DATE	DESCRIPTION



DRAWN BY: JG
DESIGNED BY: DK
CHECKED BY: DK

HINGHAM PLANNING BOARD
APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

HINGHAM TOWN CLERK
I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

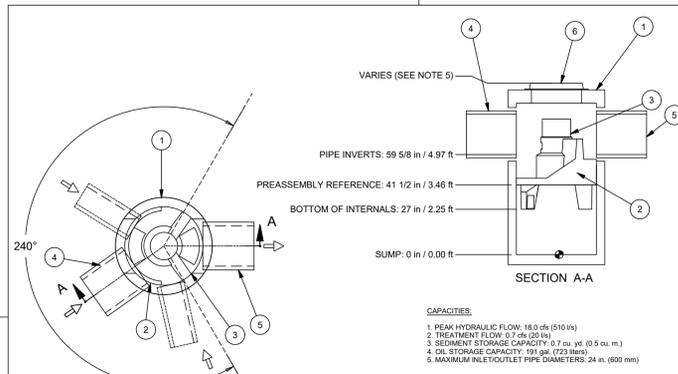
TOWN CLERK, TOWN OF HINGHAM

DEFINITIVE SUBDIVISION PLAN
#16 BISHOPS LANE
HINGHAM, MASSACHUSETTS
PREPARED FOR: YOUNG FAMILY TRUST
16 BISHOPS LANE
HINGHAM, MA 02043

MARCH 24, 2023
SCALE: AS NOTED
JOB No. 17-360
LATEST REVISION:

CONSTRUCTION
DETAIL PLAN

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Notes

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

REVISION HISTORY

REV	DATE	DESCRIPTION
A	11/5/15	SUMP DEPTH

REVISION HISTORY

REV	DATE	DESCRIPTION
1	11/25/14	Scale 1/4" = 10"

Parts List

ITEM	SIZE (in)	DESCRIPTION
1	48	1-D. PRECAST MANHOLE
2		LEDGER SUPPORT
3		SEPARATION MODULE
4	12	INLET PIPE (BY OTHERS)
5	18	OUTLET PIPE (BY OTHERS)
6	30	FRAME AND COVER (ROUND)

GENERAL NOTES:

1. General arrangement drawings only. Contact Hydro International for site specific fabrication drawings.
2. The diameter of the inlet & outlet pipes may be no more than 24".
3. Multiple inlet pipes possible (refer to project plans).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

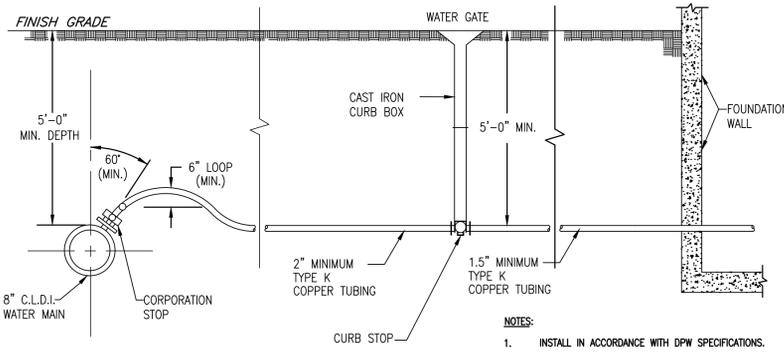
PRODUCT SPECIFICATIONS:

- The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
- The treatment system shall fit within the limits of excavation (size and depth) as shown in the project plans and will not exceed the dimensions for the design flow rates specified herein.
- The treatment system shall convey greater than or equal to 95% of TSS based on the Target Particle Size (TPS) of 106 microns and/or 80% of TSS based on the TPS of 250 microns at 0.7 cfs and 1.2 cfs, respectively.
- The treatment system shall convey the Peak Outflow Flow Rates of up to 18 cfs without causing upstream surcharge conditions. Full scale independent laboratory scour testing shall demonstrate effluent control of less than or equal to 5 mg/l for all flows up to 200% of WQEF 100.
- The treatment system shall be capable of capturing and retaining the silt and sand size particles. Analysis of captured sediment from full-scale field installations shall demonstrate particle sizes predominantly in the 20-micron range.

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

CAD Ref: F-4HC-MAX
Project No. xx-xxxx
Drawing No. F-4HC-S1 Rev. A

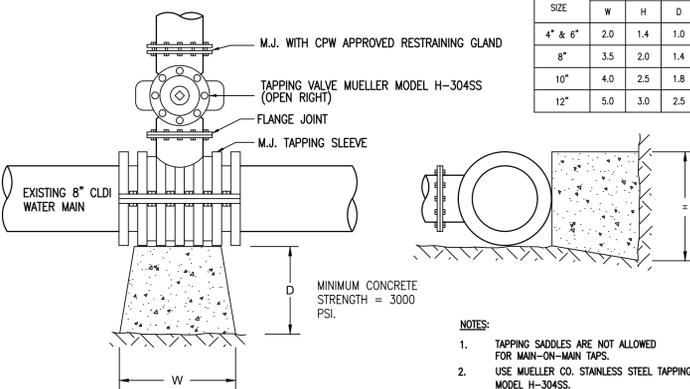
FIRST DEFENSE HIGH CAPACITY PRETREATMENT UNIT (FD-4HC) - DMH 5
(DESIGNED FOR H-20 LOADING)
(NOT TO SCALE)



WATER SERVICE DETAIL
(NOT TO SCALE)

- NOTES:**
1. INSTALL IN ACCORDANCE WITH DPW SPECIFICATIONS.
 - 1.5" SERVICE LINE REQUIRED FOR SERVICES BETWEEN 100 FT AND 150 FT IN LENGTH (SEE HINGHAM WATER DEPARTMENT SPECS)
 - 2" SERVICE LINE FROM MAIN TO PROPERTY FOR 1.5" CUSTOMER SERVICE.

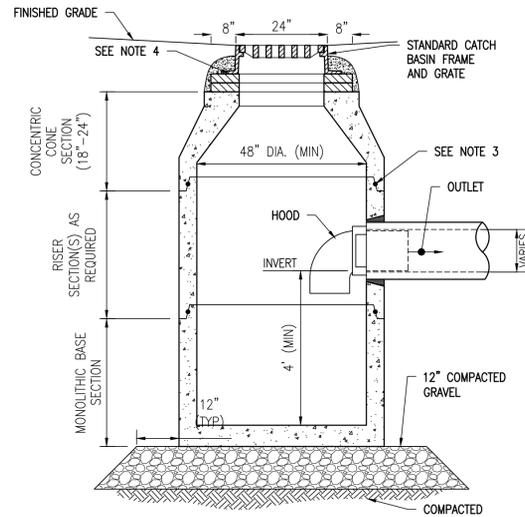
TAP SIZE	DIMENSIONS IN FEET		
	W	H	D
4" & 6"	2.0	1.4	1.0
8"	3.5	2.0	1.4
10"	4.0	2.5	1.8
12"	5.0	3.0	2.5



TAPPING SLEEVE DETAIL
(NOT TO SCALE)

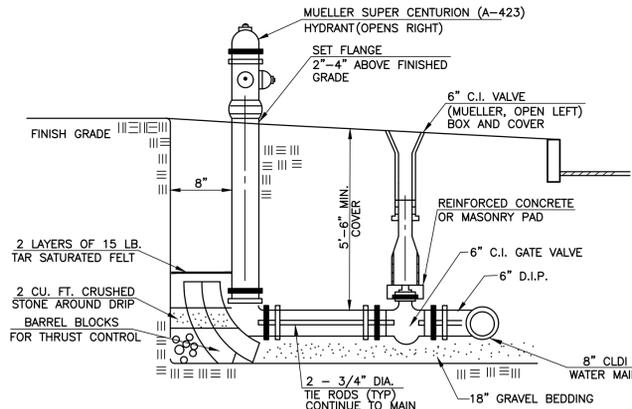
CONSULT HINGHAM WATER DEPARTMENT PRIOR TO PURCHASING ANY WATER MAIN OR SERVICE MATERIALS. COMPLETE INSTALLATION IN ACCORDANCE TO HINGHAM WATER DEPARTMENT REQUIREMENTS.

- NOTES:**
1. TAPPING SADDLES ARE NOT ALLOWED FOR MAIN-ON-MAIN TAPS.
 - USE MUELLER CO. STAINLESS STEEL TAPPING MODEL H-304SS.
 - TAPPING SLEEVES SHALL HAVE RESILIENT WEDGE GATE VALVES.
 - BOLTS AND NUTS FOR ALL TAPPING SLEEVES SHALL BE 316 SS.
 - USE THRUST BLOCKING ONLY FOR WET TAPS UNLESS OTHERWISE APPROVED BY CPW.
 - DEPTH FROM GROUND SURFACE TO TOP OF BLOCKING SHALL BE GREATER THAN HEIGHT OF BLOCKING.
 - THE END OF THE TAPPING SLEEVE SHALL BE NO CLOSER THAN 4 FEET TO A JOINT.
 - SLEEVES SHALL MEET ANSI NSF 61 STANDARDS AND BE FULL PORT OPENING.



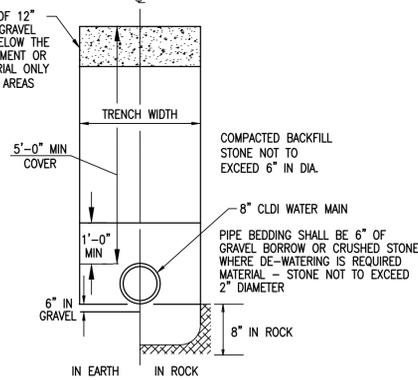
- NOTES:**
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL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

PRECAST CATCH BASIN DETAIL
(NOT TO SCALE)



HYDRANT DETAIL
(NOT TO SCALE)

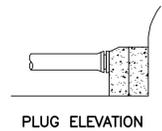
- NOTES:**
1. MEGA-LUGS ARE TO BE USED ON ALL TIE RODS AND MECHANICAL JOINTS
 2. CONTRACTOR SHALL VERIFY ALL WATERMAIN, SERVICE, AND APPURTENANCE PROCEDURES, FEES AND METHODS WITH HINGHAM WATER DEPARTMENT PRIOR TO PURCHASING ANY MATERIALS OR CONSTRUCTION
 3. BARRELL SECTION SHALL BE 5-1/4" DIAMETER
 4. PROVIDE TWO (2) 2-1/2" HOSE NOZZLES AND ONE (1) 4-1/2" PUMPER OUTLET.
 5. ALL COMPONENTS SHALL COMPLY WITH AWWA C502.



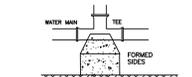
WATER TRENCH DETAIL
(NOT TO SCALE)



WATERMAIN BEND PLAN



PLUG ELEVATION



TEE-PLAN/TAPPING SLEEVE

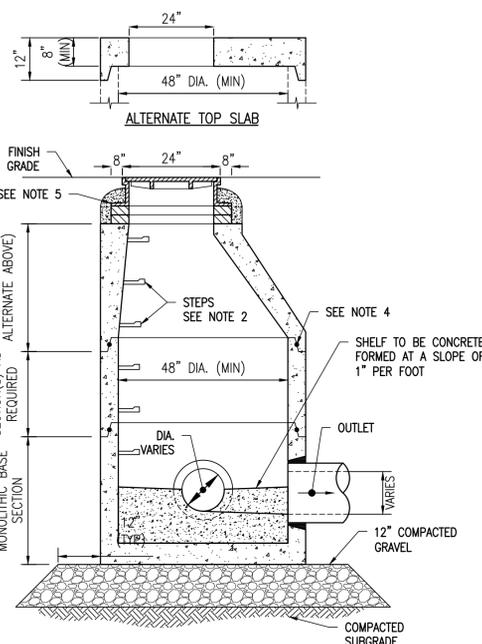
THRUST BLOCK DETAILS
(NOT TO SCALE)

TABLE OF BEARING AREAS (S.F.)

SIZE OF MAIN (IN)	90° BEND	TEES & PLUGS	45° BEND
8	5	4	3

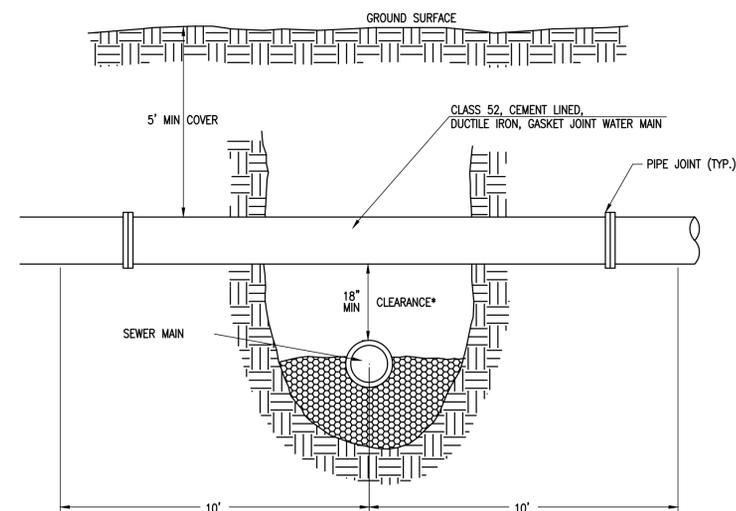
PRECAST CONCRETE BLOCK PLACED AGAINST UNDISTURBED MATERIAL AND OR STONE (LARGE DIAMETER)

- NOTE:**
1. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 P.S.I. AT 28 DAYS
 2. THRUST BLOCK BEARING AREAS TO BE IN ACCORDANCE WITH TABLE BELOW, UNLESS DETERMINED OTHERWISE BY THE ENGINEER BECAUSE OF SOIL CONDITIONS.
 3. NO CONCRETE SHALL BE POURED IN PLACE WITHOUT APPROVAL OF ENGINEER.



- 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 PREFORMED BUTYL RUBBER.
 5. DRAIN MANHOLE 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)

PRECAST CONCRETE MANHOLE DETAIL
(NOT TO SCALE)



TYPICAL WATER CROSSING
(NOT TO SCALE)

FOR REGISTRY USE ONLY

HINGHAM PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED: _____

DATE SIGNED: _____

THIS APPROVAL IS SUBJECT TO A COVENANT DULY EXECUTED DATED _____, RUNNING WITH THE LAND TO BE DULY RECORDED BY OR FOR THE OWNER OF THE RECORD. THE COVENANT IS RECORDED AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS, RECORDED IN BOOK _____ PAGE _____

HINGHAM TOWN CLERK

I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

DATE: _____

TOWN CLERK, TOWN OF HINGHAM

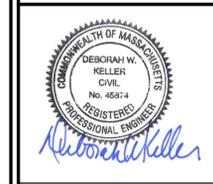
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

Douglas Aberg, P.L.S.
DOUGLAS ABERG, P.L.S.

3/24/23
DATE

REVISIONS

NO.	DATE	DESCRIPTION



DRAWN BY: JG

DESIGNED BY: DK

CHECKED BY: DK

Merrill
Engineers and Land Surveyors
427 COLUMBIA ROAD, HANOVER, MA 02339 / T: (781) 826-9200
26 UNION STREET, PLYMOUTH MA 02360 / T: (508) 746-6060
WWW.MERRILLINC.COM

DEFINITIVE SUBDIVISION PLAN

#16 BISHOPS LANE
HINGHAM, MASSACHUSETTS
PREPARED FOR: YOUNG FAMILY TRUST
16 BISHOPS LANE
HINGHAM, MA 02043

MARCH 24, 2023

SCALE: AS NOTED

JOB No. 17-360

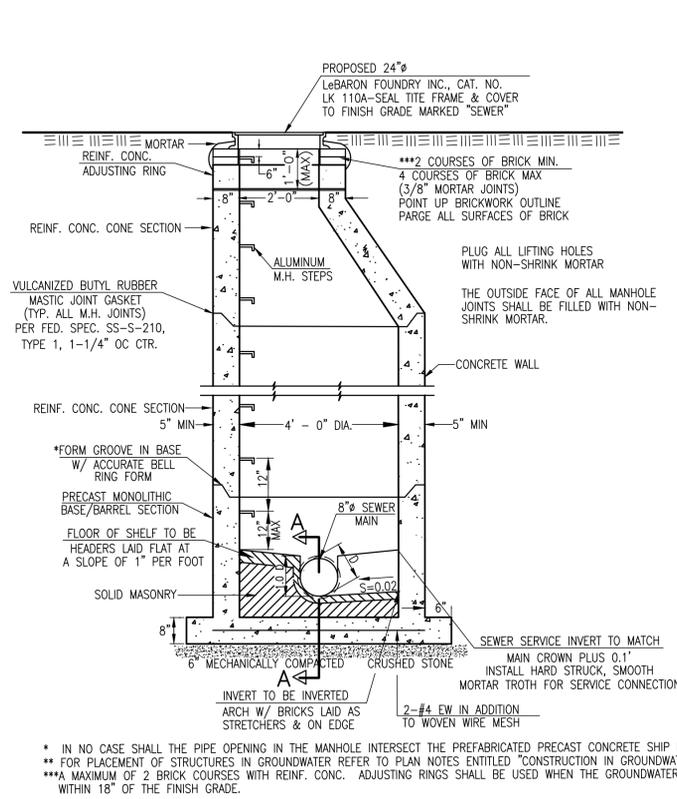
LATEST REVISION:

CONSTRUCTION
DETAIL PLAN

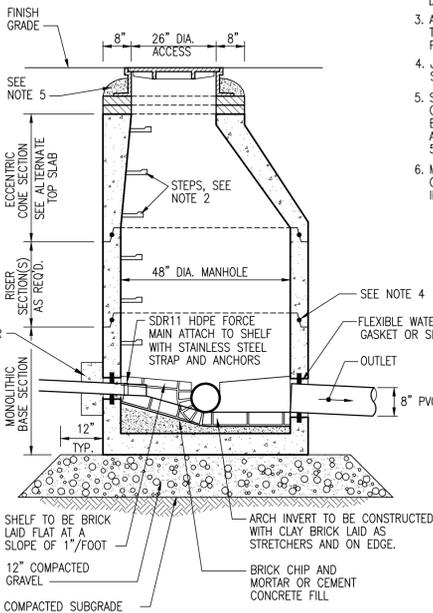
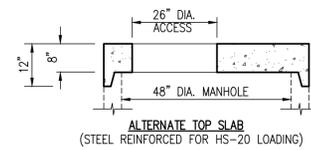
SHEET C7.2

SEWER NOTES

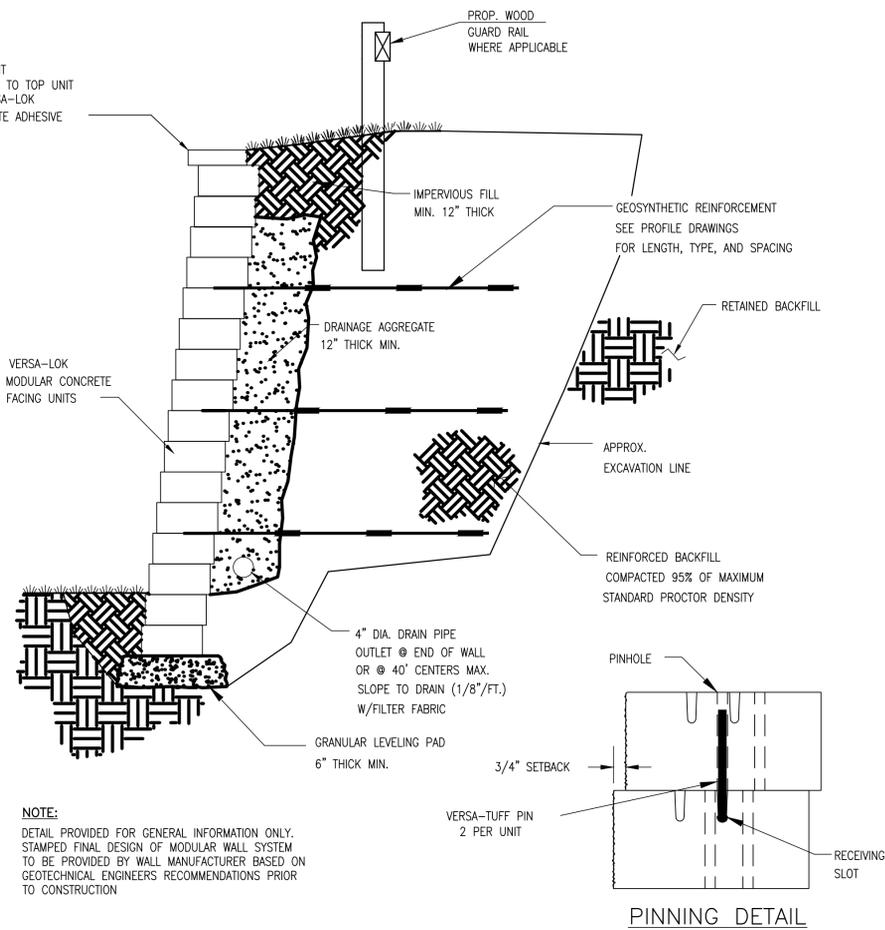
1. ALL SEWERAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE PLUMBING CODE AND HINGHAM SEWER COMMISSION REQUIREMENTS. THE SEWER SYSTEM SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. THE APPLICANT FOR THE BUILDING SEWER PERMIT SHALL NOTIFY THE COMMISSION AND DPW AT LEAST 48 HOURS PRIOR TO THE START OF AN APPROVED SEWER CONNECTION. THE APPLICANT SHALL CONNECT ALL SANITARY SEWER DISCHARGES TO THE BUILDING SEWER AND THE CONNECTION TO THE SANITARY SEWER SHALL BE MADE UNDER THE SUPERVISION OF HINGHAM DPW AND HINGHAM SEWER COMMISSION CONSTRUCTION SPECIFICATIONS.
3. THE ACCURACY OF EXISTING UTILITY LOCATIONS, DIMENSIONS AND LINES IS FROM EXISTING INFORMATION OF RECORD AND IS NOT WARRANTED. CONTRACTOR SHALL VERIFY PRIOR TO INITIATING CONSTRUCTION.
4. CALL DIG SAFE 1-888-344-7233 AT LEAST 3 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. WHEN IT IS IMPOSSIBLE TO ACHIEVE HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SEWER SHOULD BE CONSTRUCTED OF MECHANICAL-JOINT CEMENT-LINED DUCTILE IRON PIPE OR ANOTHER EQUIVALENT THAT IS WATERTIGHT AND STRUCTURALLY SOUND. BOTH PIPES SHOULD BE PRESSURE TESTED TO 150 PSI TO ENSURE THAT THEY ARE WATERTIGHT.
6. THE CONTRACTOR SHALL REMOVE BY PUMPING OR OTHER MEANS ANY WATER ACCUMULATED IN THE TRENCH DURING THE PIPE LAYING PERIOD AND KEEP THE TRENCH DRY UNTIL THE JOINTS ARE PROPERLY CONNECTED. (TRENCH WATER CAN NOT BE PUMPED INTO THE SEWER)
7. ALL PIPE BEFORE BEING PLACED IN THE TRENCH SHALL BE CLEAN AND FREE FROM DEFECTS. THE PIPE SHALL BE LAID TO THE GRADE AND ALIGNMENT INDICATED ON THE APPROVED PLAN. A MINIMUM SLOPE OF 0.02 IS REQUIRED FOR SEWER SERVICES TO PROVIDE A SELF-CLEANING VELOCITY OF 2.5 FEET PER SECOND.
8. THE CONTRACTOR MUST NOTIFY TOWN PRIOR TO BACKFILLING.
9. WHEN EXCAVATION FOR A SEWER EXPOSES OTHER UTILITIES, THE AREA SURROUNDING ALL PIPES SHALL BE FILLED WITH CLEAN GRAVEL FROM THE BOTTOM OF THE DEEPEST NEWLY EXCAVATED TRENCH TO 6 INCHES ABOVE THE UPPER MOST PIPE.
10. THE SERVICE CONNECTION TEN FEET FROM THE FOUNDATION TO THE MAIN SHOULD NOT HAVE AN ANGULAR DEVIATION OF MORE THAN 180°. ALL DEFLECTIONS WITH EXCEPTION OF PIPE JOINTS, SHALL BE IN THE FORM OF LONG SWEEPS AND NOT SHORT ANGULAR FITTINGS.
11. THE USE OF ROUGH CUT SECTIONS OF PIPE IS DISCOURAGED AND SHALL BE USED ONLY WHEN NECESSARY. THE INSIDE EDGE OF THE ROUGH CUT PIPE SHALL BE FILED SMOOTH.
12. NO CEMENTED JOINTS SHALL BE ALLOWED UNLESS IN CONJUNCTION WITH RUBBER SEAL AND APPROVED BY THE TOWN.
13. OPEN ENDS OF SEWER PIPE AND FURNISHMENTS SHALL BE SEALED WITH CAPS OR PLUGS AS RECOMMENDED AND FURNISHED BY THE MANUFACTURER.
14. 5" (MIN) CLEANOUTS SHALL BE LOCATED, 5 FEET FROM THE FOUNDATION, AT ANGLE POINTS OF GREATER THAN 45° WHERE LONG SWEEPS CAN NOT BE USED, AND FOR LONG SERVICES AT INTERVALS OF NOT MORE THAN 100 FEET.
15. THE SEWER PIPE SHALL BE PLACED ON A BED OF CLEAN GRAVEL. BACKFILL MATERIAL SHOULD BE FREE OF ANY LARGE STONES, ORGANIC SUBSTANCES OR FROST.
16. ALL INTERIOR PLUMBING TO BE PERFORMED BY A LICENSED CONTRACTOR.
17. THE TOPS OF ALL PRECAST STRUCTURES SHALL EXTEND ABOVE GROUNDWATER.
18. PRIOR TO PLACING THE SEWER SYSTEM ON LINE THE FOLLOWING SHALL BE PERFORMED: A LEAK TEST SHALL BE PERFORMED ON ALL SEWER PIPES BY UTILIZING THE LOW PRESSURE TESTING METHOD. ALL SEWERMAINS AND MANHOLES SHALL BE TESTED FOR DEFLECTION AND LEAKS AS PRESCRIBED IN TECHNICAL RELEASE 16, TR16 SECTION 2.3.9



PROPOSED SANITARY SEWER MANHOLE
(ALL COMPONENTS OF THE SEWER COLLECTION SYSTEM SHALL BE WATERTIGHT)
(NOT TO SCALE)

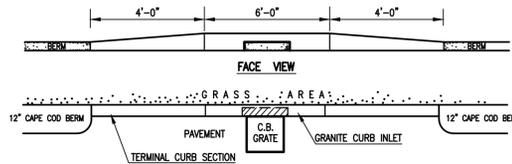
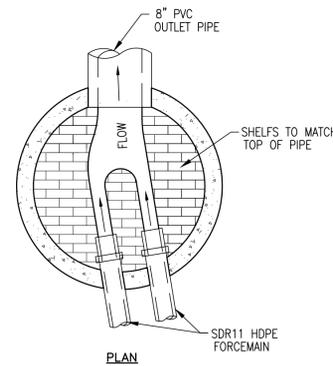


FORCE MAIN TO GRAVITY SEWER MANHOLE DETAIL
(NOT TO SCALE)



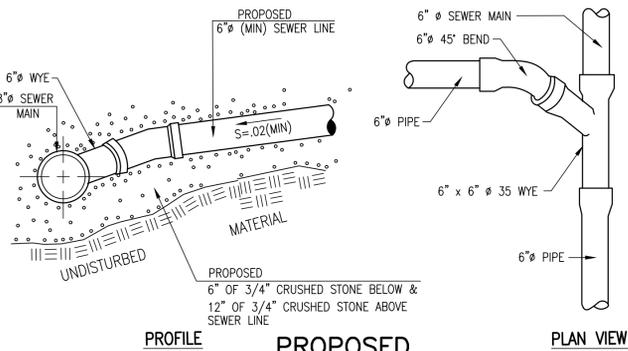
REINFORCED BLOCK RETAINING WALL DETAIL
(NOT TO SCALE)

- 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. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 5. STANDARD SEWER 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)
 6. MATCH FORCEMAIN AND OUTLET PIPE CROWNS OR TRANSITION CHANNELS TO DIRECT FLOW INTO GRAVITY SEWER.



TYPICAL GRANITE CURB INLET INSTALLATION WITH CAPE COD BERM
(NOT TO SCALE)

- NOTES:
1. GRANITE CURB INLETS ARE REQUIRED ON ALL CATCH BASINS
 2. PROVIDE GRANITE CURB INLETS FOR EACH NEW CATCH BASIN CONSTRUCTED



PROPOSED BUILDING SEWER WYE CONNECTION
(NOT TO SCALE)
(NOTE: ALL PROPOSED PIPING TO BE PVC SDR 35 OR APPROVED EQUAL)

FOR REGISTRY USE ONLY

HINGHAM PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED: _____

DATE SIGNED: _____

THIS APPROVAL IS SUBJECT TO A COVENANT DULY EXECUTED DATED _____, RUNNING WITH THE LAND TO BE DULY RECORDED BY OR FOR THE OWNER OF THE RECORD. THE COVENANT IS RECORDED AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS, RECORDED IN BOOK _____ PAGE _____

HINGHAM TOWN CLERK

I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

DATE: _____

TOWN CLERK, TOWN OF HINGHAM

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

Douglas Aberg
DOUGLAS ABERG, P.L.S.

3/24/23
DATE

REVISIONS



DRAWN BY: JG
DESIGNED BY: DK
CHECKED BY: DK

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26 UNION STREET, PLYMOUTH MA 02360 / T: (508) 746-6080
WWW.MERRILLINC.COM

DEFINITIVE SUBDIVISION PLAN
#16 BISHOPS LANE
HINGHAM, MASSACHUSETTS
PREPARED FOR: YOUNG FAMILY TRUST
16 BISHOPS LANE
HINGHAM, MA 02043

MARCH 24, 2023
SCALE: AS NOTED
JOB No. 17-360
LATEST REVISION:

CONSTRUCTION
DETAIL PLAN

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CONSTRUCTION
 DETAIL PLAN

SHEET C7.4

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Douglas Aberg
 DOUGLAS ABERG, P.L.S.

3/24/23
 DATE

- NOTES:
1. FOR ADDITIONAL DETAIL SEE MASS HIGHWAY CONSTRUCTION STANDARD 206.6.0.
 2. CONCRETE SHALL BE CLASS A, 4,000 PSI (MIN). @ 28 DAYS
 3. REINFORCING #5 BAR GRADE 60 - 12" O.C.B.W

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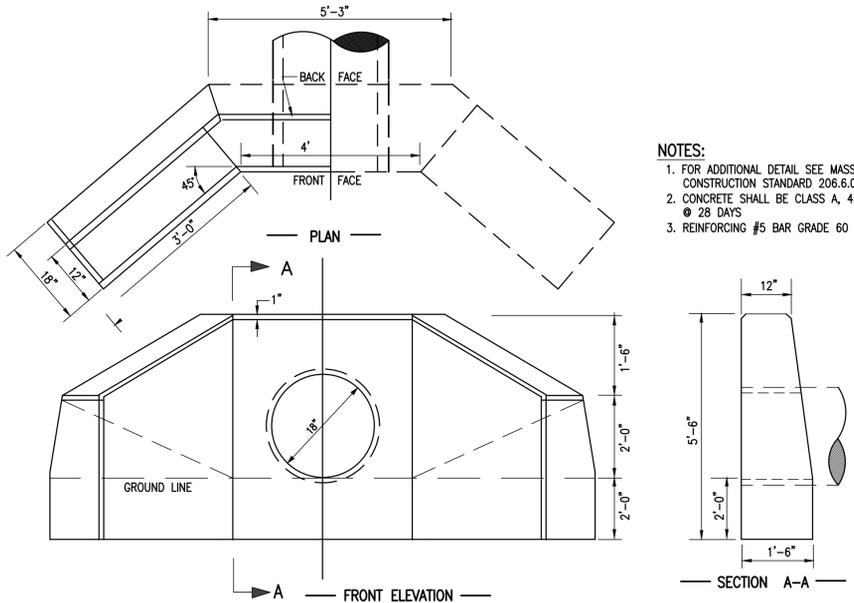
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HINGHAM TOWN CLERK

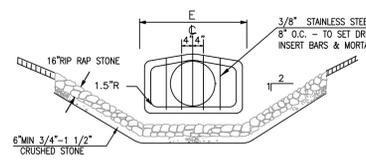
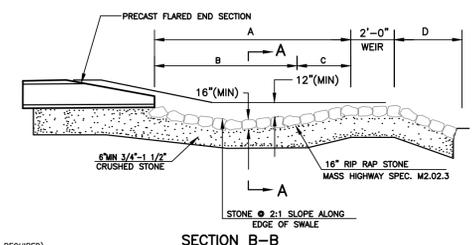
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DATE: _____

TOWN CLERK, TOWN OF HINGHAM



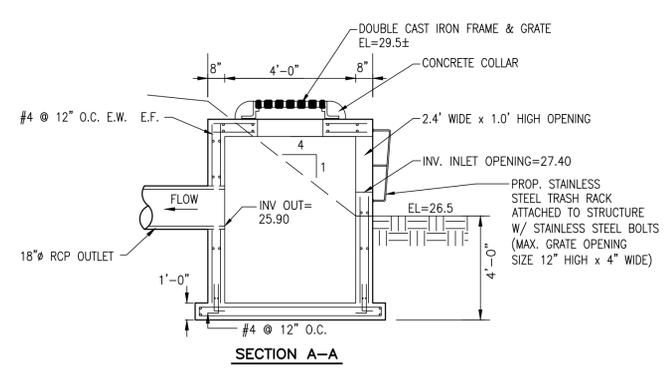
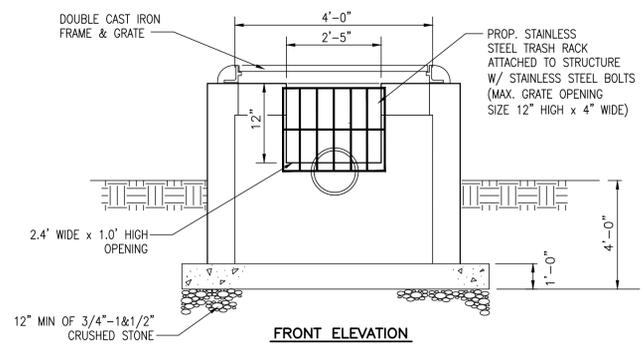
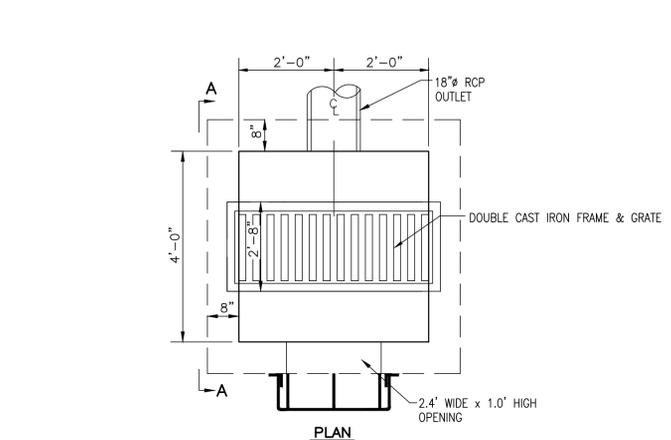
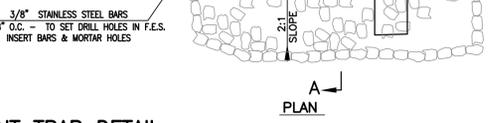
PIPE DIA.	12"	18"	24"	30"
A	12'-6"	15'-0"	20'-0"	24'-0"
B	9'-6"	11'-3"	15'-0"	18'-0"
C	3'-0"	3'-9"	5'-0"	8'-0"
D	4'-0"	4'-6"	6'-0"	8'-0"
E	5'-0"	6'-0"	8'-0"	10'-0"



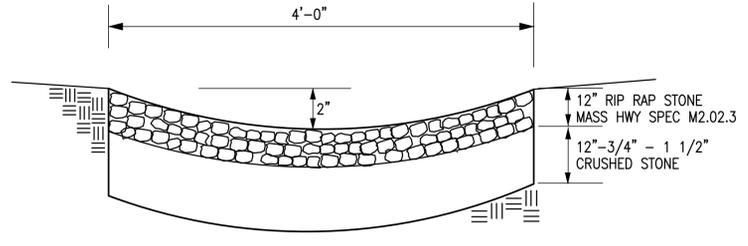
(SECTION A-A)

- NOTES:
1. STONE FOR EROSION CONTROL PADS SHALL COMPLY WITH MDPW MATERIAL SPEC M 2.02.3
 2. STONE BERM FOR SILT TRAP SHALL BE CONSTRUCTED AROUND SIDES OF EROSION CONTROL PADS

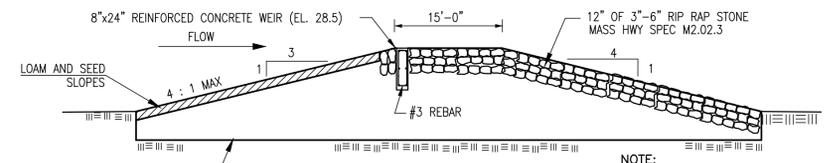
SEDIMENT TRAP DETAIL
 (NOT TO SCALE)



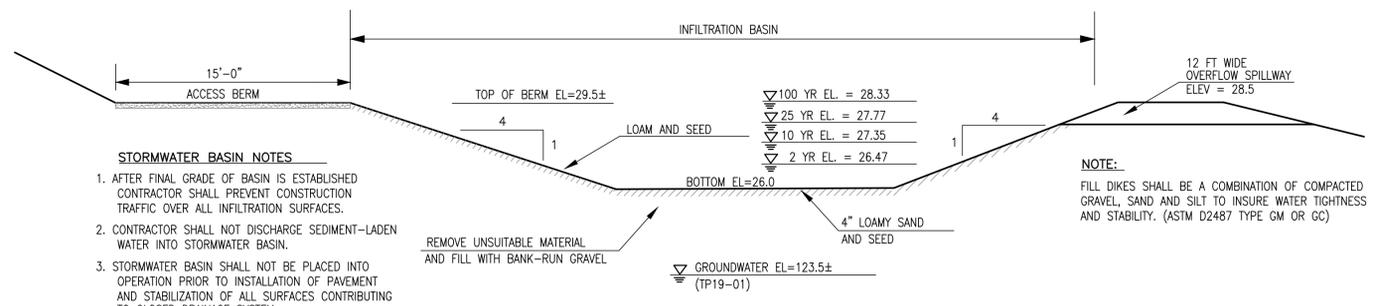
OVERFLOW OUTLET STRUCTURE FOR BIO-RETENTION AREA
 (NOT TO SCALE)



LOW FLOW STONE CHANNEL
 (NOT TO SCALE)



OVERFLOW SPILLWAY DETAIL
 (NOT TO SCALE)



STORMWATER BASIN NOTES

1. AFTER FINAL GRADE OF BASIN IS ESTABLISHED CONTRACTOR SHALL PREVENT CONSTRUCTION TRAFFIC OVER ALL INFILTRATION SURFACES.
2. CONTRACTOR SHALL NOT DISCHARGE SEDIMENT-LADEN WATER INTO STORMWATER BASIN.
3. STORMWATER BASIN SHALL NOT BE PLACED INTO OPERATION PRIOR TO INSTALLATION OF PAVEMENT AND STABILIZATION OF ALL SURFACES CONTRIBUTING TO CLOSED DRAINAGE SYSTEM.
4. EXCAVATE ALL MATERIAL BELOW INFILTRATION BASIN TO SAND LAYER (SEE SOIL LOGS) AND REPLACE WITH CLEAN COARSE SAND IN ACCORDANCE WITH 310 CMR 15.255.

SECTION THRU PROPOSED INFILTRATION BASIN
 (NOT TO SCALE)

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MARCH 24, 2023

SCALE: AS NOTED

JOB No. 17-360

LATEST REVISION:

CONSTRUCTION
 DETAIL PLAN

SHEET C7.5

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Douglas Amberg
 DOUGLAS AMBERG, P.L.S.

3/24/23
 DATE

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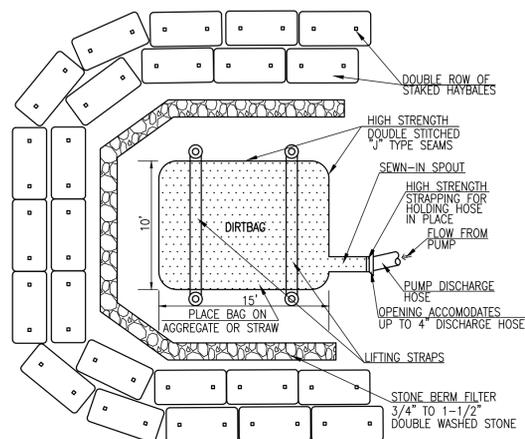
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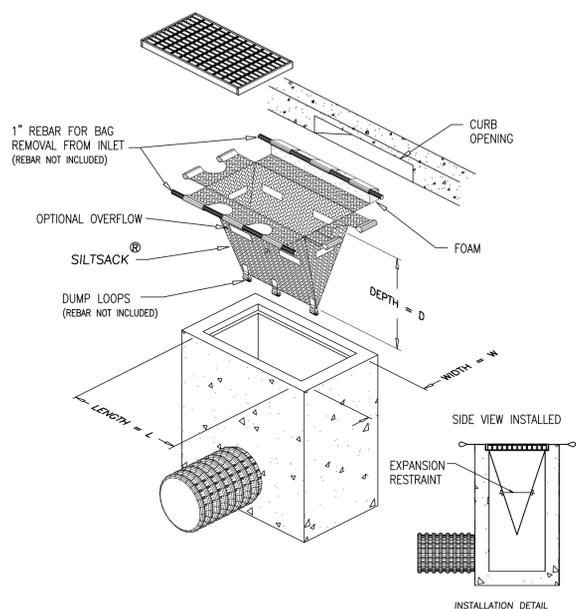
DATE: _____

TOWN CLERK, TOWN OF HINGHAM

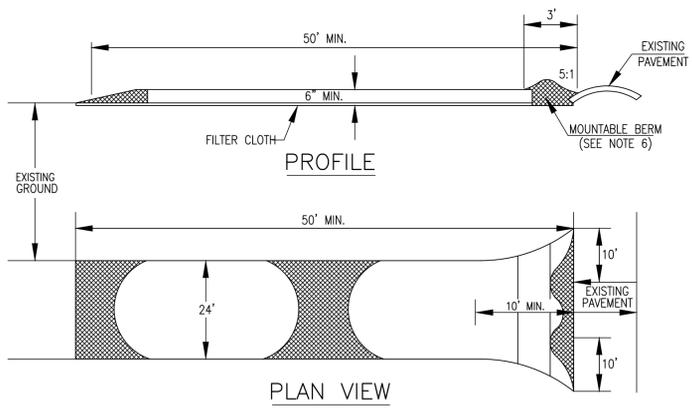


NOTE:
 CONTRACTOR WILL KEEP A SUFFICIENT SUPPLY OF HAY BALES, CLEAN STONE AND DIRT BAGS TO ENSURE SILTATION IS CONTROLLED ON SITE. A MINIMUM OF TWO TIMES THE HAY BALES AND STONE ARE NEEDED AND FOUR DIRT BAGS WILL BE KEPT ON SITE.

DIRTBAG DETAIL
 (NOT TO SCALE)



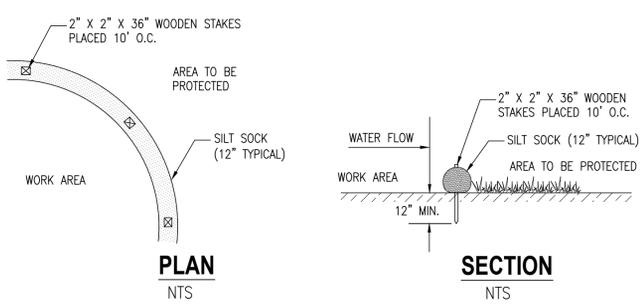
SILT SACK DETAIL
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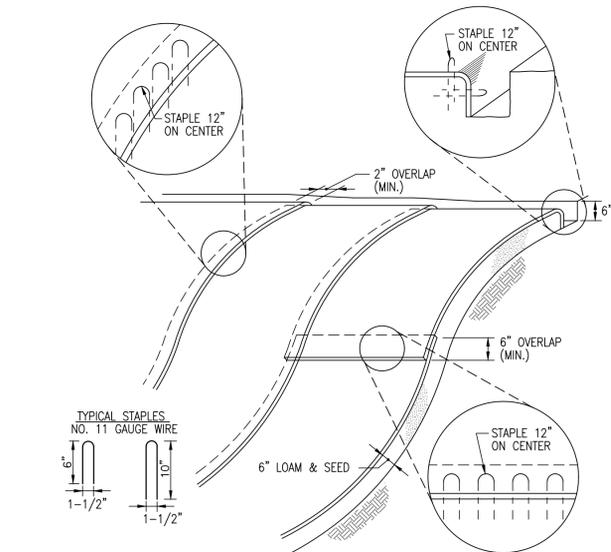
STABILIZED CONSTRUCTION ENTRANCE
 (NOT TO SCALE)

SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FT.(EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

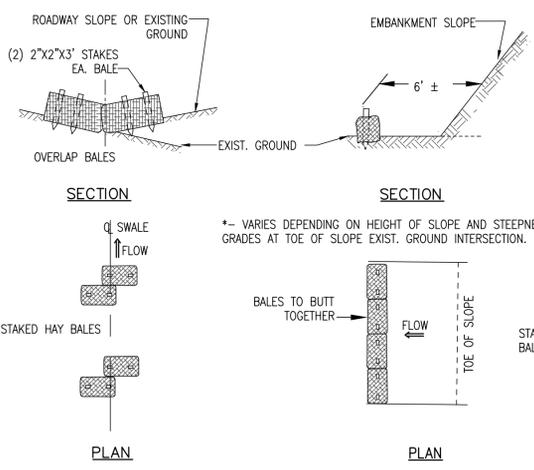


SILT SOCK DETAIL
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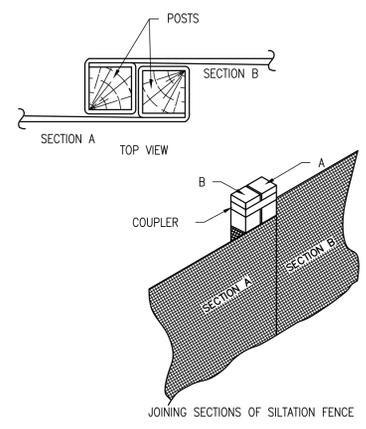
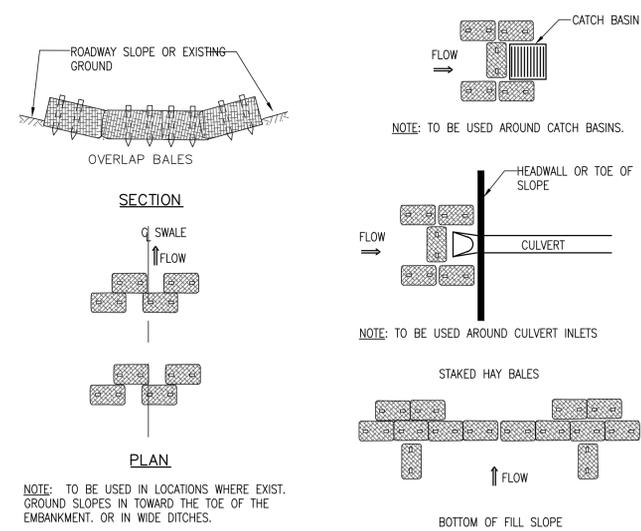


EROSION CONTROL BLANKET SLOPE STABILIZATION DETAIL
 (NOT TO SCALE)

- NOTES:**
- BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
 - ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
 - THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
 - WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.
 - METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.



TEMPORARY EROSION CONTROL DETAILS
 (NOT TO SCALE)



SILT FENCE DETAIL
 (NOT TO SCALE)

- CONSTRUCTION NOTES:**
- SILTATION FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

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GENERAL CONSTRUCTION AND EROSION CONTROL NOTES:

- 1. PRIOR TO THE START OF CONSTRUCTION OR SITE CLEARING THERE SHALL BE A PRE-CONSTRUCTION MEETING ATTENDED BY THE APPLICANT TEAM, THE CONSERVATION ADMINISTRATOR, THE TOWN PLANNER, THE ENGINEER FOR THE PLANNING BOARD, AND THE POLICE CHIEF OR HIS PROXY TO REVIEW THE INSTALLATION OF THE EROSION CONTROL MEASURES, ANSWER ANY QUESTIONS ON THE STORMWATER POLLUTION PREVENTION PLAN, DISCUSS THE PROJECT TIMELINE AND THE SCHEDULE OF POLICE DETAILS.
- 2. POLICE DETAILS SHALL BE REQUIRED AT THE DISCRETION OF THE CHIEF OF POLICE TO ASSIST IN MANAGING CONSTRUCTION TRAFFIC ENTERING OR EXITING THE SITE, AND WHEN MATERIAL IS BEING IMPORTED/EXPORTED FROM THE SITE DURING CONSTRUCTION OF ROADS OR INDIVIDUAL LOTS.
- 3. CONSTRUCTION VEHICLE TRAFFIC SHALL BE COORDINATED WITH THE CHIEF OF POLICE AS TO NOT INTERFERE WITH THE FOSTER SCHOOL SCHEDULE.
- 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL STANDARDS.
- 5. THE ACCURACY OF EXISTING UTILITY LOCATIONS, DIMENSIONS AND LINES IS FROM EXISTING INFORMATION OF RECORD AND IS NOT WARRANTED. CONTRACTOR TO VERIFY PRIOR TO INITIATING CONSTRUCTION.
- 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SECURE ALL NECESSARY STATE, MUNICIPAL AND OTHER UTILITY PERMITS AND VERIFY THE PROPOSED LOCATIONS OF UTILITIES WITH UTILITY COMPANIES.
- 7. UNDERGROUND UTILITIES TO BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE VARIOUS DEPARTMENTS OR COMPANIES.
- 8. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF HINGHAM PLANNING BOARD RULES AND REGULATIONS, DPW SPECIFICATIONS, CONSERVATION COMMISSION REGULATIONS, WATER DEPARTMENT REGULATIONS AND ALL OTHER APPLICABLE CODES.
- 9. ALL STUMPS SHALL BE DISPOSED OFF SITE.
- 10. CONTRACTOR TO NOTIFY "DIG-SAFE" AND THE TOWN OF HINGHAM DEPARTMENT OF PUBLIC WORKS FOUR DAYS PRIOR TO CONSTRUCTION
- 11. WHERE PROPOSED PAVEMENT AND WALKS ARE TO MEET EXISTING, THE CONTRACTOR SHALL SAWCUT TO A NEAT LINE AND MATCH GRADE.
- 12. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE PAVED OR OTHERWISE TREATED AS NOTED ON PLAN SHALL BE TREATED WITH 6" OF LOAM, SEEDED AND STRAW OR MULCHED FOR EROSION CONTROL.
- 13. DRAINAGE SYSTEM TO BE AS PER HINGHAM DEPARTMENT OF PUBLIC WORKS REQUIREMENTS.
- 14. ALL SUBSURFACE STRUCTURES TO CONFORM TO MASSACHUSETTS HIGHWAY DEPARTMENT CONSTRUCTION STANDARDS AND SHALL BE SUITABLE FOR H-20 LOADING.
- 15. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS DATED MARCH 1997, THE ORDER OF CONDITIONS AND ALL MUNICIPAL REGULATIONS.
- 16. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- 17. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETER WITH MULCH LOGS TO PREVENT AND/OR CONTROL SILTATION AND EROSION. THE LOCATION OF THE STOCKPILE AREAS MAY BE MODIFIED AS APPROVED BY THE ENGINEER.
- 18. TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER SO THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
- 19. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR HAVE TEMPORARILY BEEN SUSPENDED FOR MORE THAN SEVEN DAYS, OR WHEN FINAL GRADES ARE REACHED IN ANY PORTION OF THE SITE, STABILIZATION PRACTICES SHALL BE IMPLEMENTED WITHIN THREE DAYS. AREAS THAT REMAIN DISTURBED BUT INACTIVE FOR AT LEAST THIRTY DAYS SHALL RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.
- 20. EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE LINE OF MULCH LOG.
- 21. CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY MULCH LOG FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 22. SILT BAGS SHALL BE UTILIZED AT ALL EXISTING AND PROPOSED CATCHBASINS SUBJECT TO STORMWATER RUNOFF FROM PROPOSED FILL AREAS DURING CONSTRUCTION, OR AS DIRECTED BY THE OWNER/ENGINEER. NO SEDIMENT SHALL ENTER THE ON-SITE DRAINAGE SYSTEMS AT ANY TIME.
- 23. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE AFTER EACH RAINFALL EVENT.
- 24. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL EROSION CONTROL MATERIALS (MULCH LOGS) FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER, THE CONSERVATION COMMISSION OR THE PLANNING BOARD TO MITIGATE ANY EMERGENCY CONDITION.
- 25. TEST PITS AND/OR BORINGS WERE TAKEN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY. THEY DO NOT NECESSARILY SHOW THE NATURE OF ALL MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- 26. THE LIMIT OF WORK LINE FOR THE AREA TO BE CLEARED AND GRUBBED SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES, (I.E., THE GRADING LIMITS AROUND THE PERIMETER OF THE PROJECT AREA).
- 27. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL SEDIMENT, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 28. THE CONTRACTOR SHALL BE AWARE THAT SOIL, GRADES AND WETLANDS PROXIMITY AT THIS SITE MAKE IT PARTICULARLY SUSCEPTIBLE TO SOIL EROSION AND SENSITIVE TO ITS CONSEQUENCES. IT SHOULD BE NOTED THAT THE EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM REQUIRED CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITING, RELOCATION AND AUGMENTATION OF EROSION CONTROL DEVICES AS THE PROJECT PROGRESSES AND SITE DRAINAGE CONDITIONS CHANGE.
- 29. THE CONTRACTOR SHALL ANTICIPATE AND MODIFY EROSION CONTROL MEASURES BASED ON PAST AND CURRENT WEATHER CONDITION, SEASON AND EXPECTED FUTURE CONSTRUCTION ACTIVITIES.
- 30. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF EXPOSURE OF DISTURBED AREAS.
- 31. THE CONTRACTOR SHALL AT HIS EXPENSE SURVEY AND MARK OUT IN THE FIELD THE LIMITS OF CLEARING (I.E., EROSION CONTROL LINE).
- 32. THE CONTRACTOR SHALL NOTIFY THE TOWN'S PLANNER AND CONSERVATION AGENT AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY SITE WORK.

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 ON 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 "DIG SAFE" 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 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. PROPOSED GAS SERVICE LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT GAS LINE INSTALLATION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCE NOTICE OF WHEN THE GAS LINE CAN BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND BACKFILL AND COMPACTION FOR THE GAS LINE, IF THE OWNER ELECTS TO INSTALL GAS.
- 3. DUE TO THE SMALL SCALE OF THE SITE WORK DRAWINGS, EXACT LOCATION OF UTILITY STUBS FOR BUILDING CONNECTIONS SHALL BE VERIFIED WITH THE BUILDING DRAWINGS.

HINGHAM WATER DEPARTMENT WATER SYSTEM NOTES:

- 1. ALL WATER SYSTEM MATERIALS SHALL BE AS PER HINGHAM WATER DEPARTMENT SPECIFICATIONS.
- 2. WATER MAINS TO BE DUCTILE IRON PIPE, CLASS 52 CONFORMING TO AWWA C150 AND AWWA C151, PUSH ON TYPE JOINTS WITH GASKETS CONFORMING TO AWWA C111, DOUBLE CEMENT LINES INSIDE CONFORMING TO AWWA C104, AND ASPHALT SEAL COATED OUTSIDE (CONFORMING TO AWWA 203). IN AREAS WHERE GROUNDWATER LEVELS AREA ABOVE THE PIPE LAYING DEPTH, FURNISH AND INSTALL POLYETHYLENE ENCASMENT ("V-BIO" ENHANCED POLYETHYLENE ENCASMENT AS MANUFACTURED BY THE DUCTILE-IRON PIPE RESEARCH ASSOCIATION).
- 3. ALL PIPE FITTINGS SHALL BE DUCTILE IRON, CLASS 350 MECHANICAL JOINT CONFORMING TO AWWA C153. ALL FITTINGS SHALL BE RESTRAINED WITH SERIES 1100 MEGALUG AS MANUFACTURED BY EBMA IRON, OR APPROVED EQUAL.
- 4. ALL GATE VALVES SHALL BE RESILIENT WEDGE SEATED VALVES CONFORMING TO AWWA C509 (MUELLER CO 2360 SERIES OR APPROVED EQUAL). VALVES SHALL HAVE CORROSION RESISTANT FUSION - BONDED INTERIOR AND EXTERIOR COATINGS. VALVES ARE TO HAVE DOUBLE O RING SEALS, A NON-RISING STEM, 2 INCH OPERATING NUT, AND BE OPEN "RIGHT" (CLOCKWISE TO OPEN). AN ARROW INDICATING THE OPENING POSITION SHALL BE CAST INTO THE OPERATING NUT.
- 5. VALVE BOXES SHALL BE CAST IRON, ASPHALT COATED, SLIDING TYPE, ADJUSTABLE, TOGETHER WITH CAST IRON COVERS WITH THE WORD "WATER" PLAINLY CAST IN RELIEF ON THE TOP SURFACE. A MINIMUM 6" OVERLAP IS REQUIRED BETWEEN SLIDING SECTIONS. THE INSIDE DIAMETER OF THE BOTTOM SECTION SHALL BE AT LEAST 5-1/4 INCHES AND SHALL HAVE A BELLED BASE. THE TOP SECTION SHALL BE AT LEAST 6-1/8 INCHES AND HAVE TOP FLANGES. THE BOTTOM SECTION SHALL BE AT LEAST 36 INCHES IN LENGTH. THE TOP SECTION SHALL BE AT LEAST 26 INCHES IN LENGTH AND HAVE A PLAIN BOTTOM.
- 6. TAPPING SLEEVES AND VALVES SHALL HAVE RESILIENT WEDGE GATE VALVES AS SPECIFIED ABOVE WITH THE FOLLOWING EXPECTONS. TAPPING SLEEVE SHALL BE MUELLER CO. STAINLESS STEEL TAPPING SLEEVE MODEL H-304SS. SLEEVES SHALL MEET ANSI/NSF 61 STANDARDS. SLEEVE OUTLET SHALL HAVE A 3/4" TESTING PORT WITH A 1/2" SPT BRASS TEST PLUG. TAPPING VALVES SHALL BE FULL PORT OPENING AND ABOVE SPECIFIED.
- 7. HYDRANTS SHALL BE MUELLER SUPER CENTURION A-423, CONFORMING TO AWWA C502 (DRY BARREL HYDRANTS) AND PAINTED RED. FIRE HYDRANTS SHALL HAVE MECHANICAL JOINT SHOES, 5"-6" BURY (STREET LEVEL SHOULDER AREAS) OR 6"-0" BURY (RAISED SIDEWALK) AND MARKED WITH AN ARROW AND THE WORD "OPEN" TO INDICATE THE DIRECTION TO TURN THE STEM TO OPEN THE HYDRANT. HYDRANTS SHALL OPEN RIGHT (CLOCKWISE TO OPEN).
- 8. CURB STOP BOXES SHALL BE CAST IRON ERIE TYPE WITH RECESSED LID WITH PENTAGON BOLT AND THE WORD "WATER" CAST ON TOP, AND ADJUSTABLE SLIDING TYPE WITH ARCH PATTERN. CURB STOP BOXES SHALL BE DOMESTICALLY MANUFACTURED BY MUELLER OR BINGHAM AND TAYLOR.
- 9. DUCTILE IRON PIPE AND FITTINGS SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH REQUIREMENTS OF AWWA C600, LATEST EDITION. WATER MAINS SHALL HAVE A MINIMUM OF FIVE FEET OF COVER. PRESSURE TESTING SHALL CONSIST OF 200 PSI FOR 10 MINUTES AND 150 PSI FOR 2 HOURS.
- 10. THE MINIMUM VERTICAL AND HORIZONTAL SEPARATION MUST BE MAINTAINED FOR ALL WATER LINES AND OTHER UTILITIES: 18 INCHES VERTICAL (WATER LINE 18-INCHES ABOVE) AND 10 FEET HORIZONTAL.
- 11. AT NO TIME SHALL A WATER MAIN OR SERVICE BE INSTALLED GREATER THAN 8 FEET BELOW FINISHED GRADE.
- 12. WATER MAINS SHALL NOT BE INSTALLED BELOW CONCRETE PADS AND CONCRETE SIDEWALKS AND OR LANDSCAPED ISLANDS SHALL BE AVOIDED WHENEVER POSSIBLE.
- 13. ALL EXCAVATION AND RESTORATION WORK SHALL MEET TOWN SPECIFICATIONS INCLUDING SPECIAL PROVISIONS OF THE GRANT OF LOCATION AND STREET OPENING PERMITS. A TOWN STREET OPENING PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTRACT POLICE DETAIL AS REQUIRED.
- 14. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER EXCEPT AS NOTED ON THE PLAN, REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES, OR AS DIRECTED BY THE HINGHAM WATER DEPARTMENT.
- 15. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE NEW WATER MAIN SHALL PASS UNDER EXISTING UTILITY AND DRAIN LINES.
- 13. ALL WATER MAIN FITTINGS, TEES, HYDRANTS, ETC. SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS AND SHALL BE MECHANICAL JOINTS WITH MEGALUG RESTRAINTS.
- 16. THE DOMESTIC WATER SERVICES SHALL BE 1" TYPE K COPPER TUBING AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED AND APPROVED GATE, BOX AND TEE FITTINGS.
- 17. CONTRACTOR SHALL USE A WATER TIGHT PLUG DURING THE WATER MAIN INSTALLATION. PLUG SHALL REMAIN IN PLACE AT ALL TIMES.
- 18. THE CONTRACTOR, AT THEIR EXPENSE, SHALL PROVIDE ADDITIONAL TAPS (IF REQUIRED) FOR THE CHLORINATING AND HYDROSTATIC TESTING. TAPS SHALL BE REMOVED AND CAPPED AFTER TESTING IS COMPLETE.
- 19. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH AQUARIUM WATER COMPANY STANDARDS AND REQUIREMENTS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH UTILITY TESTS, FLUSHING AND INSPECTIONS RESULTS SHALL BE FURNISHED TO THE TO THE HINGHAM WATER DEPARTMENT FOR APPROVAL PRIOR TO WATER BEING TURNED ON.
- 20. NO WATER WILL BE TURNED ON FOR THE PROJECT WITHOUT HINGHAM WATER DEPARTMENT APPROVAL.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING/REPAIRING ANY PAVEMENT MARKINGS, STRIPING, CURBING, PAVEMENT, LANDSCAPING, ETC. TO EQUAL OR BETTER THAN PRIOR TO CONSTRUCTION CONDITION.

CONSTRUCTION SEQUENCE:

- 1. INSTALLATION OF EROSION CONTROL BARRIER. ROUTINE INSPECTIONS OF THE BARRIER SHALL BE PERFORMED BY THE CONTRACTOR AND SEDIMENT SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIFICATIONS AND OPERATIONS AND MAINTENANCE PLAN.
- 2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE
- 3. CLEAR AND GRUB ROADWAY AND EASEMENT AREAS
- 4. BRING CUT AREAS TO SUBGRADE
- 5. CONSTRUCT STORMWATER INFILTRATION BASIN INCLUDING LOAM AND SEED.
- 6. INSTALL SEDIMENTATION BARRIERS AROUND THE STORMWATR BASIN TO PREVENT DISCHARGE OF SEDIMENT INTO THE BASIN DURING CONSTRUCTION (STORMWATER BASIN SHALL NOT BE PLACED INTO OPERATION PRIOR TO INSTALLATION OF PAVEMENT AND STABILIZATION OF ALL SURFACES CONTRIBUTING TO CLOSED DRAINAGE SYSTEM.
- 7. INSTALL UTILITIES (ie, DRAIN, SEWER, WATER, ELECTRIC, etc.)
- 8. INSTALL MULCH LOGS AROUND CATCHBASINS TOGETHER WITH SILT SACKS BENEATH CATCHBASIN GRATES
- 9. CATCH BASIN GRATES ARE TO BE SET AT BINDER GRADE
- 10. INSTALL EROSION CONTROLS ON EXPOSED SLOPES
- 11. PLACE BASE COURSE OF PAVEMENT / LOAM AND SEED GRASS AREAS UNCOVER TEMPORARY DRAINAGE SEALS / FINISH PAVING ON ROADWAY
- 12. AFTER THE STORMWATER BASIN HAS BEEN PLACED INTO OPERATION, INSPECT AFTER ALL STORMS AND AT LEAST MONTHLY.

GRADING AND DRAINAGE NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
- 2. CATCH BASINS SHALL BE EQUIPPED WITH GAS/OIL HOODS AND ALL CATCH BASINS SHALL HAVE 4 FOOT SUMPS.
- 3. ALL ON-SITE STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE), UNLESS NOTED OTHERWISE.
- 4. REINFORCED CONCRETE MANHOLES & CATCH BASINS SHALL BE CAPABLE OF HANDLING H2O LOADING AND BE MANUFACTURED IN ACCORDANCE WITH ASTM SPECIFICATION C478 AND AASHTO DESIGNATION M199.
- 5. ALL PIPES AND STRUCTURES SHALL MEET THE LATEST MASS HIGHWAY DEPARTMENT SPECIFICATIONS, HINGHAM DPW SPECIFICATIONS AND THE HINGHAM PLANNING BOARD RULES AND REGULATIONS.
- 6. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN LINES.
- 7. RIP RAP SPLASH APRONS SHALL BE PROVIDED AT ALL DRAINAGE OUTFALLS AS SHOWN ON THE DRAWINGS.
- 8. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO A POINT OF 10 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.

FOR REGISTRY USE ONLY

HINGHAM PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED: _____

DATE SIGNED: _____

THIS APPROVAL IS SUBJECT TO A COVENANT DULY EXECUTED DATED _____, RUNNING WITH THE LAND TO BE DULY RECORDED BY OR FOR THE OWNER OF THE RECORD. THE COVENANT IS RECORDED AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS, RECORDED IN BOOK _____ PAGE _____

HINGHAM TOWN CLERK

I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

DATE: _____

TOWN CLERK, TOWN OF HINGHAM

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

Douglas Aberg 3/24/23
DOUGLAS ABERG, P.L.C. DATE

OPERATION AND MAINTENANCE PLAN:

CONSTRUCTION ACTIVITIES SHALL FOLLOW THE CONSTRUCTION SEQUENCE SHOWN ON THE APPROVED PLAN. DURING PERIODS OF ACTIVE CONSTRUCTION THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF A STORM EVENT OF GREATER THAN 1/2". MAINTENANCE TASKS SHALL BE PERFORMED MONTHLY OR AFTER SIGNIFICANT RAINFALL EVENTS OF 1" OF RAIN OR GREATER. DURING CONSTRUCTION, SILT LADEN RUNOFF SHALL BE PREVENTED FROM ENTERING THE EXISTING WETLANDS AND OFF-SITE PROPERTIES. SILT SOCK SHALL BE INSTALLED IN ADVANCE OF CONSTRUCTION ALONG THE EDGE OF ALL DISTURBED AREAS WITHIN THE BUFFER AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT. SILT SACKS FOR CATCHBASINS SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE INSTALLATION OF EACH CATCHBASIN. THE LOCATION OF THE EROSION CONTROL MEASURES IS TO BE SHOWN ON THE APPROVED PLANS.

DURING DEWATERING OPERATIONS, ALL WATER PUMPED SHALL BE DIRECTED TO A "DIRT BAG" PUMPED SEDIMENT REMOVAL SYSTEM (OR APPROVED EQUAL) AS MANUFACTURED BY ACF ENVIRONMENTAL. THE UNIT SHALL BE PLACED ON A CRUSHED STONE BLANKET. DISPOSAL OF SUCH "DIRT BAG" SHALL OCCUR WHEN THE DEVICE IS FULL AND CAN NO LONGER EFFECTIVELY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE FLOW RATE. DISPOSAL OF THIS UNIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AS DIRECTED BY THE OWNER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PLACED AT THE PROJECT STREET ENTRANCE AND SHALL CONSIST OF 1 1/2 " TO 2" STONE AND BE CONSTRUCTED AS SHOWN ON THE APPROVED PLANS.

ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.

THE STORMWATER BASIN SHOULD BE INSPECTED AFTER EVERY MAJOR STORM EVENT DURING CONSTRUCTION AND CLEANED TO ENSURE PROPER FUNCTION. DEEP SUMP CATCH BASINS AND WATER QUALITY STRUCTURES SHOULD BE INSPECTED AFTER EVERY MAJOR STORM EVENT DURING CONSTRUCTION AND CLEANED WHEN SEDIMENT EXCEEDS 18" DEPTH. SILT TRAPS SHOULD BE INSPECTED AFTER EVERY MAJOR STORM EVENT DURING CONSTRUCTION AND CLEANED WHEN SEDIMENT DEPTH EXCEEDS 3".

ONCE EACH STRUCTURE IS IN PLACE, IT SHOULD BE MAINTAINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE POST-CONSTRUCTION OPERATIONS AND MAINTENANCE PLAN.

REVISIONS



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DEFINITIVE SUBDIVISION PLAN
16 BISHOPS LANE
HINGHAM, MASSACHUSETTS
PREPARED FOR: YOUNG FAMILY TRUST
16 BISHOPS LANE
HINGHAM, MA 02043

MARCH 24, 2023

SCALE: AS NOTED

JOB No. 17-360

LATEST REVISION:

**CONSTRUCTION
DETAIL PLAN**

SHEET C7.6

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