

**UNBUILDABLE  
LOT A/  
LANDSCAPE  
AREA**

LEGEND	
	PROPERTY LINE
	TOWN LINE

N/F  
SOUTHFIELD  
HOMEOWNERS  
ASSOCIATION  
C/O JA WOOD  
MANAGEMENT

CHESTNUT STREET  
(PRIVATE WAY)

**LOT 1**  
N/F  
766 CHESTNUT LLC

**EXIST. LOT**

N/F  
KEVIN R. &  
SARAH M. JAY  
#776

**EXIST. LOT**

N/F  
770 CHESTNUT  
STREET LLC  
#770

**LOT 6**

N/F  
PIERSIAK, WILLIAM J.  
TR  
768B CHESTNUT ST  
REALTY TRUST

**LOT 5**

N/F  
PIERSIAK, WILLIAM J. TR  
768B CHESTNUT ST  
REALTY TRUST

**LOT 4**

N/F  
PIERSIAK, WILLIAM JOHN

**LOT 2**  
N/F  
766 CHESTNUT LLC

**LOT 3**

N/F  
PIERSIAK, WILLIAM J. TR  
768B CHESTNUT ST  
REALTY TRUST

HEATHER LANE  
EXTENSION  
(PRIVATE WAY.)

#768

N/F  
HASIOTIS, GEORGE K.

N/F  
GROSSMAN,  
SARAH & EVAN T.

RIVERBEND LANE  
(PRIVATE WAY)

N/F, PETER M. &  
PALLADINO, CHRISTINE ANN



VIEWPORT 2

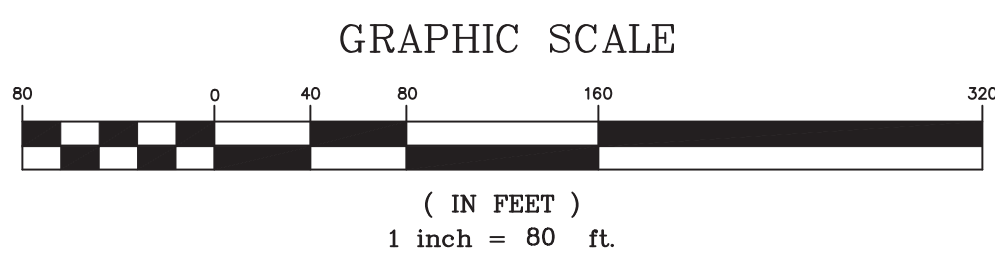
CHARLES RIVER

NEEDHAM  
DOVER  
TOWN  
LINE

NEEDHAM  
CHARLES RIVER  
DEDHAM  
TOWN LINE (TYP)

WESTWOOD

# PLANS TO ACCOMPANY NOTICE OF INTENT



SCALE 1" = 80'				
DATE 08/25/20	REV	DATE	REVISION	BY
SHEET 1 of 2				
FILE # LT02-NOI	764, 766, 768-768A & 768B CHESTNUT S.T NEEDHAM, MA			
JOB # F:\P\2019-088	KEY SHEET			
DRAWN BY C.J.L.	<b>KELLY ENGINEERING GROUP</b> civil engineering consultants 0 Campanelli Drive, Braintree, MA 02184 Phone: 781-843-4333 www.kellyengineeringgroup.com			
CHKD BY BGL				
APPD BY DNK				



Digitally signed by David Noel Kelly  
DN: cn=David Noel Kelly, o=Kelly Engineering Group, Inc., email=dnk@kellyeng.com, serial=1000000000, c=US, Date: 2020.08.26 16:55:04 -0400

SHEET NO.  
**1**

KELLY ENGINEERING GROUP SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORKING ACCORDANCE WITH THE CONTRACT DOCUMENTS.  
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DEEP HOLE OBSERVATION LOG			
TP# 1			
Depth From Surface (ft)	Soil Horizon	Soil Texture (USDA)	(Structure, stones etc)
0-12"	A	LOAMY SAND	
12"-24"	B	SANDS	
24"-48"	C1	SANDS	10% BOULDERS
48"-120"	C2	SANDS & GRAVELS	20% COBBLES, 10% BOULDERS

MOTTLING OBSERVED @ NA  
WEEPING OBSERVED @ NA  
STANDING WATER @ NA

DEEP HOLE OBSERVATION LOG			
TP# 2			
Depth From Surface (ft)	Soil Horizon	Soil Texture (USDA)	(Structure, stones etc)
0-12"	A	LOAMY SAND	
12"-28"	B	FINE SANDS	
28"-69"	C1	FINE SANDS	NO STONES
69"-120"	C2	SANDS & GRAVELS	10% COBBLES

MOTTLING OBSERVED @ NA  
WEEPING OBSERVED @ NA  
STANDING WATER @ NA

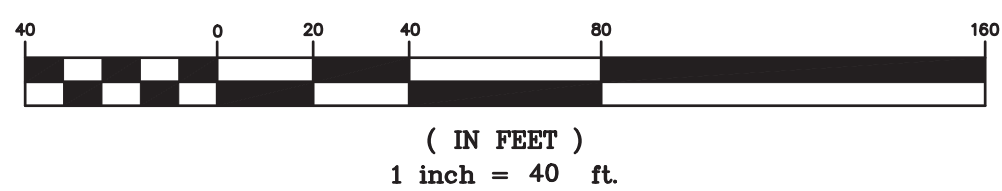
### CONSTRUCTION NOTES

- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER OF ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF NEEDHAM DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF ANY FIELD INSPECTIONS.
- IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES ALL NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE OFFICERS.
- ALL WORK SHALL CONFORM TO A DEFINITIVE SUBDIVISION APPROVAL TO BE ISSUED BY THE TOWN OF NEEDHAM PLANNING BOARD AND ORDER OF CONDITIONS BY TOWN OF NEEDHAM CONSERVATION COMMISSION.
- ALL WORK SHALL CONFORM TO AN ORDER OF CONDITION TO BE ISSUED BY THE TOWN OF NEEDHAM.
- THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTRACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-888-344-7233.
- THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- ALL WATER WORK SHALL COMPLY WITH SPECIFICATIONS OF THE TOWN OF NEEDHAM WATER DEPARTMENT. SEE F1-F9 NOTES BELOW.
- GRAVITY SEWER SHALL BE SDR 35. WATER LINES SHALL BE CONCRETE LINED CL 52 D.I.P. (DUCTILE IRON PIPE), REINFORCED CONCRETE PIPE RCP SHALL BE CLASS III. HDPE STORM DRAIN SHALL BE ADS M12 OR EQUIVALENT.
- NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF THE SEWER IN THE TRENCH, NOR ARE THEY TO BE USED FOR BACKFILL FOR THE FIRST 12" ABOVE THE PIPES.
- BASE MATERIAL SHALL BE CLEAN BANK RUN GRAVEL, CONFORMING TO M.O.P. # M1.031, WITH NO STONES LARGER THAN THREE (3) INCHES IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL.
- PAVEMENT AREA SHALL BE PAVED TO A THICKNESS AS SHOWN ON THE PLANS MEASURED AFTER COMPACTION, WITH A BINDER COURSE AND TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- THE AGGREGATE SHALL BE COMPOSED, MIXED AND LAID HOT IN TWO COURSES AS SPECIFIED IN THE "COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", 1988 EDITION, SECTION 460 FOR CLASS I BITUMINOUS CONCRETE PAVEMENT, AS SPECIFICALLY SET FORTH IN SECTION 460.20 AND 460.82.
- ALL EXISTING PAVING TO BE DISTURBED SHALL BE CUT ALONG A STRAIGHT LINE THROUGH ITS ENTIRE THICKNESS, BUT NEW PAVING INTO THE EXISTING PAVEMENT TO REMAIN AND TACK COAT THE JOINT.
- ANY PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A PAVEMENT SECTION CONSISTING OF 1 1/2" WEAR COURSE OVERLAYING A 2" BINDER COURSE OVERLAYING A 4" DENSE GRADED GRAVEL COURSE OVERLAYING A 8" COMPACTED GRAVEL BASE COURSE.
- ALL AREAS TO BE PLANTED WITH GRASS SHALL BE TREATED WITH 100 POUNDS OF GROUND LIMESTONE PER 1,000 S.F. OF AREA PLANTED. ALL AREAS TO BE PLANTED WITH GRASS SHALL BE FERTILIZED WITH 10-10-10 AT THE RATE OF 1,000 POUNDS PER ACRE OR AS REQUIRED BY SOIL TEST. 40% OF THE NITROGEN SHALL BE ORGANIC FORM.
- ALL LANDSCAPED AREAS TO BE LOAMED AND SEEDED SHALL HAVE THE FOLLOWING MIX:  
PERENNIAL RYE 25%  
KENTUCKY BLUE 25%  
CREEPING RED FESCUE OR PENNLAWN FESCUE 50%  
SEED AT THE RATE OF \$8/1,000 S.F.
- ALL AREAS INDICATED TO BE LOAMED AND SEEDING SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL, SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED.

### EROSION CONTROL NOTES

- THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEANUP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE MAY BALE DIKES AROUND DRAINAGE INLETS, MULCHING AND PLANTING OF DISTURBED AREAS.
- AFTER INSTALLATION OF EACH DRAINAGE INLET SILT SACKS SHALL BE INSTALLED AROUND EACH DRAINAGE INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
- AT THE END OF CONSTRUCTION ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS.
- DURING CONSTRUCTION THE EROSION CONTROL MEASURES SHALL BE INSPECTED ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.

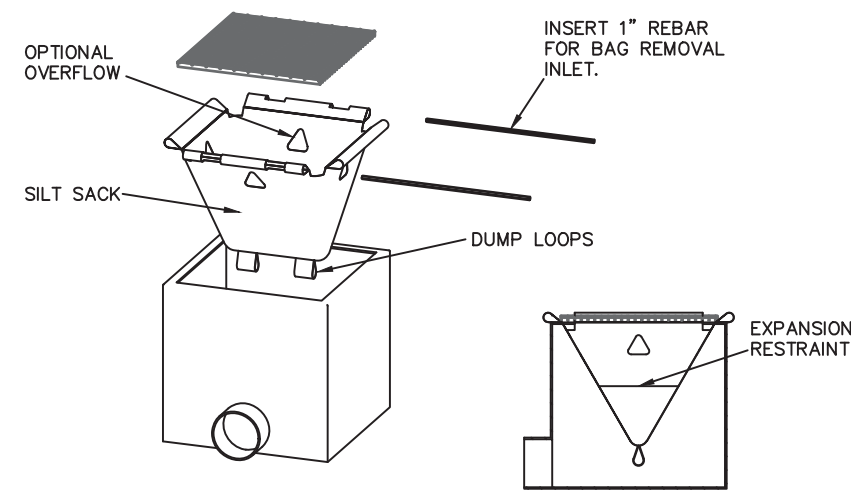
### GRAPHIC SCALE



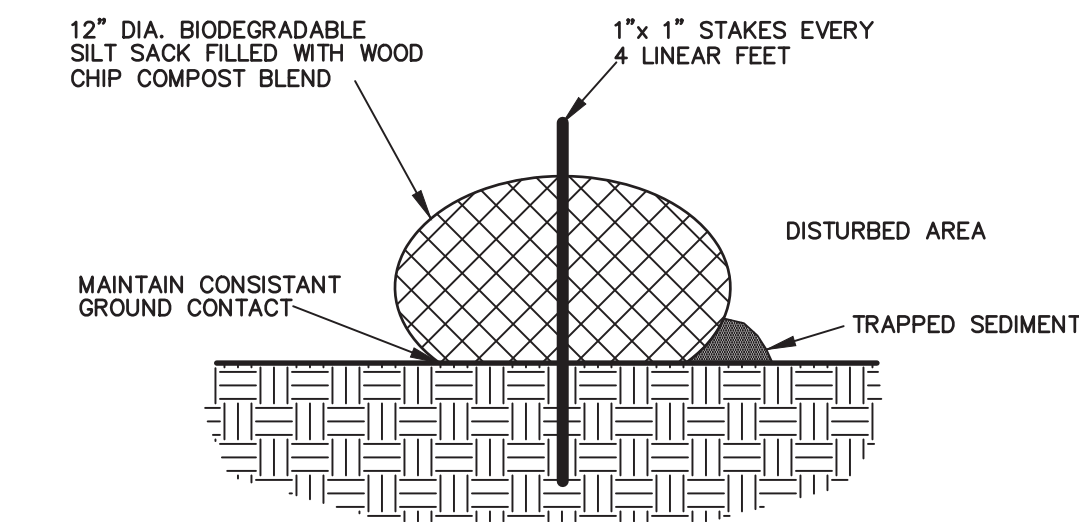
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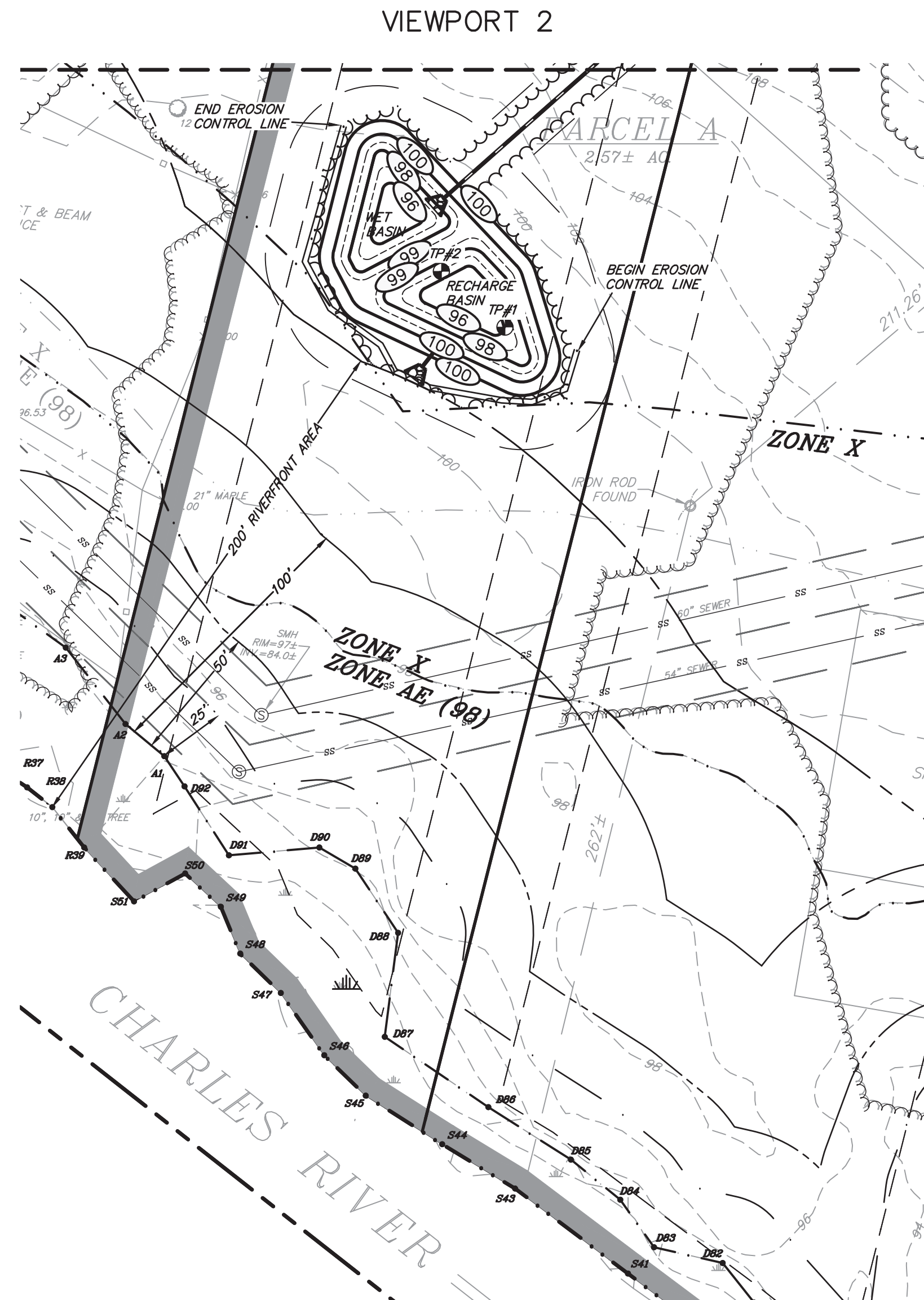
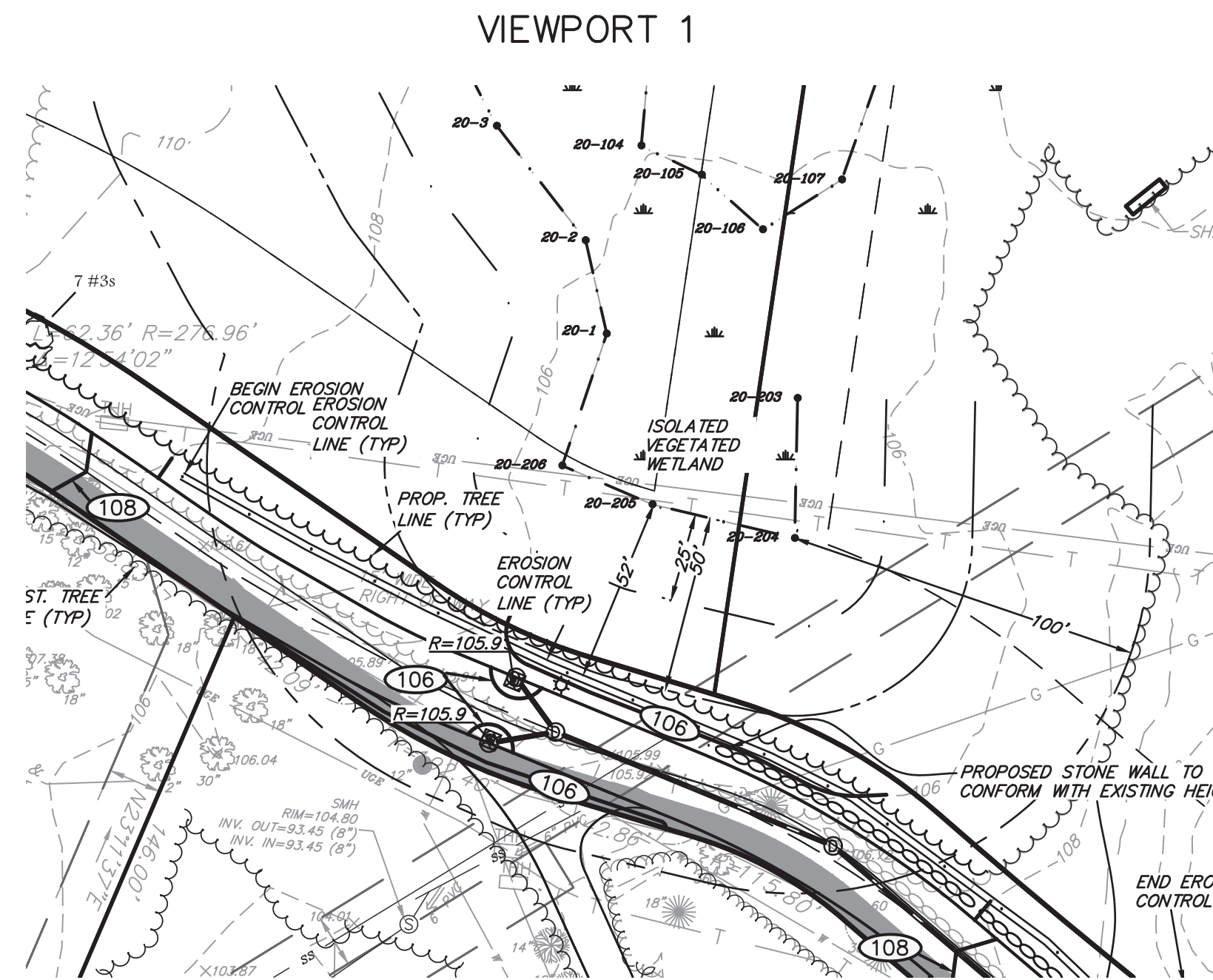
SILT SACK- TYPE A DETAIL  
NOT TO SCALE  
KELLY ENGINEERING GROUP, INC. ©



SILT SOCK LINE DETAIL  
NOT TO SCALE  
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### NOTES

- FOR SUBDIVISION PLANS AND ROADWAY CONSTRUCTION OF HEATHER LANE AND HEATHER LANE EXTENSION, SEE "DEFINITIVE SUBDIVISION PLANS FOR HEATHER LANE", LATEST REVISED SHEETS 3A, 3B, 3C, 4B, 4C, 8, & 9 DATED 03/03/20 AND SHEETS 1, 2, 4A, 5, 6, & 7 DATED 07/22/20 BY KELLY ENGINEERING GROUP, INC.  
"DEFINITIVE SUBDIVISION PLANS AND RESIDENTIAL COMPOUND SPECIAL PERMIT FOR LOT 4 HEATHER LANE", LATEST REVISED SHEETS 1 & 3 DATED 07/22/20, SHEET 2 DATED 03/03/20, AND SHEETS 4, 5, 6, & 7 DATED 07/07/20 BY KELLY ENGINEERING GROUP, INC.
- ONLY RESOURCE AREAS DESCRIBED BELOW AS SHOWN ON THIS SHEET ARE A PART OF THIS NOTICE OF INTENT FILING.  
ISOLATED VEGETATED WETLANDS FLAGS 20-204 TO 20-206 WERE FLAGGED BY GLM ENGINEERING CONSULTANTS, INC. AND APPROVED BY THE COMMISSION.  
BORDERING VEGETATED WETLANDS FLAGS A3 TO A1 AND D92 TO D88 WERE REFRESHED BY ECOTEC, INC. MEAN ANNUAL HIGH WATER LINE FLAGS R37 TO R39 AND S51 TO S41 WERE REFRESHED BY ECOTEC, INC. SEE WETLANDS RESOURCE EVALUATION BY ECOTEC INC. FOR FURTHER INFORMATION.  
BASE FLOOD PLAIN ELEVATION OF 98 WAS TAKEN FROM THE TOWN OF NEEDHAM FLOOD MAP.  
ALL OTHER RESOURCE AREAS ON THE PROPERTY ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT INTENDED AS A PART OF THIS FILING.



RESOURCE AREAS LEGEND	
---	MAFWL (RIVERFRONT) LINE
---	RIVERFRONT 200' BUFFER
---	EDGE OF WETLAND
---	100' BUFFER TO R.V.W.
---	50' BUFFER TO R.V.W.
---	25' BUFFER TO R.V.W.
---	FLOODPLAIN ZONE AE (EL. 98)

PROPOSED LEGEND	
---	RIP RAP
---	FLARED END SECTION
---	CATCH BASIN
---	DRAIN LINE
---	CONTOUR LINE
---	SPOT GRADE
---	M.E. MATCH EXISTING
---	EROSION CONTROL LINE
---	SILT SACK
---	SEWER MANHOLE
---	SEWER LINE

EXISTING LEGEND	
---	CAPE COD BERM
---	CATCH BASIN
---	DRAIN MANHOLE
---	STORM DRAIN LINE
---	HYDRANT
---	WATER VALVE
---	WATER LINE
---	SEWER MANHOLE
---	SEWER LINE
---	UTILITY POLE
---	TRANSFORMER
---	ELECTRIC HAND HOLE
---	UNDERGROUND ELECTRIC LINE
---	OVERHEAD ELECTRIC LINE
---	TELEPHONE MAHOLE
---	TELEPHONE HAND HOLE
---	SPOT GRADE
---	CONTOUR LINE (MNR)
---	CONTOUR LINE (MJR)
---	WETLANDS FLAG
---	WETLANDS LINE
---	200' RIVERFRONT LINE
---	EASEMENT
---	NATIONAL HERITAGE ENDANGERED SPECIES PROGRAM LINE (NHESP)
---	FLOOD PLAIN
---	PROPERTY LINE
---	ZONE LINE
---	TOWN LINE
---	TREE LINE
---	EVERGREEN TREE
---	DECIDUOUS TREE
---	STONE BOUND/ DRILL HOLE FOUND

# PLANS TO ACCOMPANY NOTICE OF INTENT

SCALE 1" = 40'	REV	DATE	REVISION	BY
DATE 08/25/20				
SHEET 3 of 3	HEATHER LANE 764, 766, 768-768A & 768B CHESTNUT S.T NEEDHAM, MA			
FILE # G002-RESOURCE AREAS EXHIBIT	SITE PLAN			
JOB # F:\P\2019-088	DRAWN BY C.L.			
CHKD BY DAM	KELLY ENGINEERING GROUP civil engineering consultants 0 Campanelli Drive, Braintree, MA 02184 Phone: 781-843-4333 www.kellyengineeringgroup.com			
APPD BY DNK	SHEET NO. <b>2</b>			

