

NORFOLK ZONING BOARD OF APPEALS
APPROVED AND ENDORSED UNDER M.G.L. C. 40B BY THE NORFOLK ZONING BOARD OF APPEALS

APPROVED: _____
ENDORSED: _____

I HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE NORFOLK ZONING BOARD OF APPEALS WAS RECEIVED AND RECORDED ON _____ AT THIS OFFICE, AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER SUCH RECEIPT OF RECORDING OF SAID NOTICE.

TOWN CLERK, NORFOLK, MA DATE _____

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

DATE _____

SITE NOTES:

1. THE SUBJECT PROPERTY IS SHOWN AS 25/84/2 ON THE TOWN OF NORFOLK ASSESSORS' RECORDS.
2. ALL SURVEY WORK INCLUDING THE PROPERTY LINES ARE BASED ON A FIELD SURVEY BY O'DRISCOLL LAND SURVEYING CO. IN OCTOBER AND NOVEMBER OF 2013.
3. REFERENCE DEEDS NORFOLK COUNTY REGISTRY: BOOK 32103, PAGE 134; BOOK 3440, PAGE 237.
4. REFERENCE PLANS NORFOLK COUNTY REGISTRY: PLAN 8 OF 1956; 1930 COUNTY LAYOUT OF PINE STREET.
5. THE SUBJECT PROPERTY IS LOCATED IN ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF NORFOLK COUNTY, MASSACHUSETTS, MAP NUMBER 25021C0333E, MAP REVISED JULY 17, 2012.

PROPOSED ZONING SETBACKS:

- FRONT SETBACK 10'
- SIDE SETBACK 5'
- REAR SETBACK 10'

SURVEY COMPANY OF RECORD



Daniel A. O'Driscoll
11/12/2019
Daniel A. O'Driscoll

DATE Nov. 12, 2019

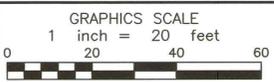
O' DRISCOLL
LAND SURVEYING Co.
LAND SURVEYING GPS MAPPING LAND CONSULTING
46 COTTAGE STREET MEDWAY, MASSACHUSETTS 02053 (508) 533-3314

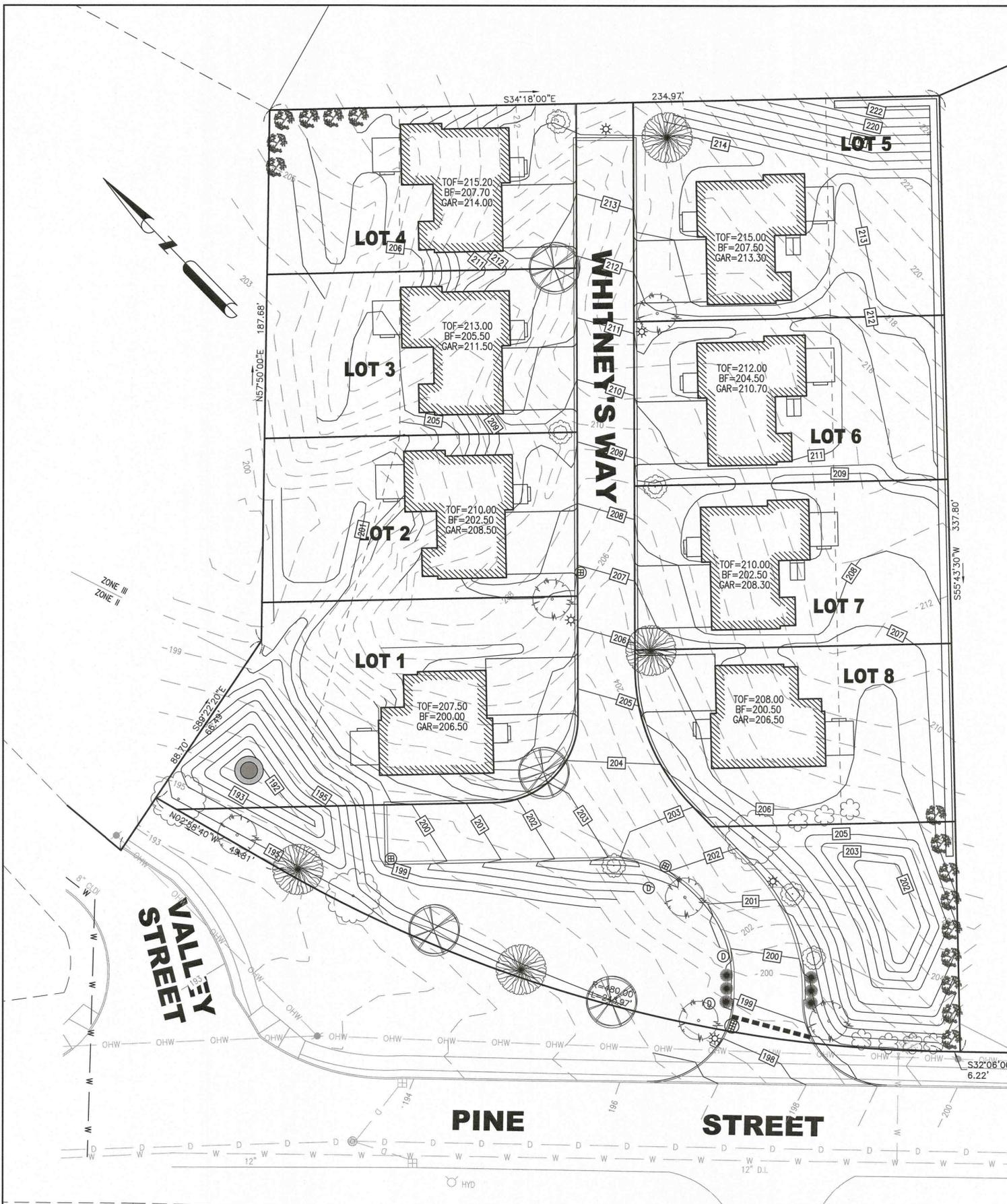
FOR REGISTRY USE ONLY		BY APP.	
DATE	11/12/2019	BY	
PROJECT NUMBER	0101-07-01	APP.	
DESIGNED BY	RMF/JLB		
CHECKED BY	NCZ		
DRAWING SCALE	1" = 20'		
SHEET ID	RI		

ZCE
ZENITH CONSULTING ENGINEERS, LLC
3 MAIN STREET LAKEVILLE, MA 02347
PHONE: (508) 947-4208



P. E. STAMP





PLANT KEY

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
	ACER SACCHARUM	SUGAR MAPLE	2-2-1/2" CAL.	3
	CORNUS KOUSA	KOUSA DOGWOOD	2-2-1/2" CAL.	6
	ACER RUBRUM	RED MAPLE	2-2-1/2" CAL.	3
	QUERCUS PALUSTRIS	PIN OAK	2" 2-1/2" CAL.	4
	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	6' HT	10
	DWARF ACER PALMATUM	DWARF JAPANESE MAPLE	2 GALLON	3
	ILEX GLABRA COMPACTA	COMPACT INKBERRY	18" - 24" HT	6
	RHODODENDRON SCINTILLATION	SCINTILLATION RHODODENDRON	2 GALLON	7

☼ - PROPOSED LIGHT POLE LOCATION

LANDSCAPING PER J.4.b.1.E (ZONING REGULATIONS)

- LANDSCAPING FOR EVERY FOOT OF FRONTAGE X 40 SF = 300 X 40 SF = 12,000 SF
- THIS SHALL NOT REQUIRE MORE THAN 20% OF THE LOT = 76,602 SF X 0.20 = 15,320 SF

A MINIMUM OF 12,000 SF OF LANDSCAPING IS REQUIRED.
OVER 50,000 SF PROVIDED INCLUDING LAWN AREA

LEGEND

EXISTING	DESCRIPTION	PROPOSED
-98-	CONTOURS	202
—	BOUND	
—	TEST PIT	
19X24	SPOT GRADE	+98.5
⊙	WELL	⊙
D — D — D —	DRAIN LINE	— — — —
⊙	DRAIN MANHOLE	⊙
⊙	CATCH BASIN	⊙
CCC	CAPE COD BERM	CCC
— OHW —	OVERHEAD WIRES	— OHW —
—	UTILITY POLE	—
—	SINGLE POLE SIGN	—
— X — X — X —	CHAIN LINKED FENCE	— X — X — X —

FOR REGISTRY USE ONLY

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TOWN CLERK, NORFOLK, MA DATE _____

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DATE _____

ZCE
ZENITH CONSULTING ENGINEERS, LLC
3 MAIN STREET LAKEVILLE, MA 02347
PHONE: (508) 947-4208

PROFESSIONAL SEAL
ROBERT M. COUS
No. 8772
P.E. STAMP

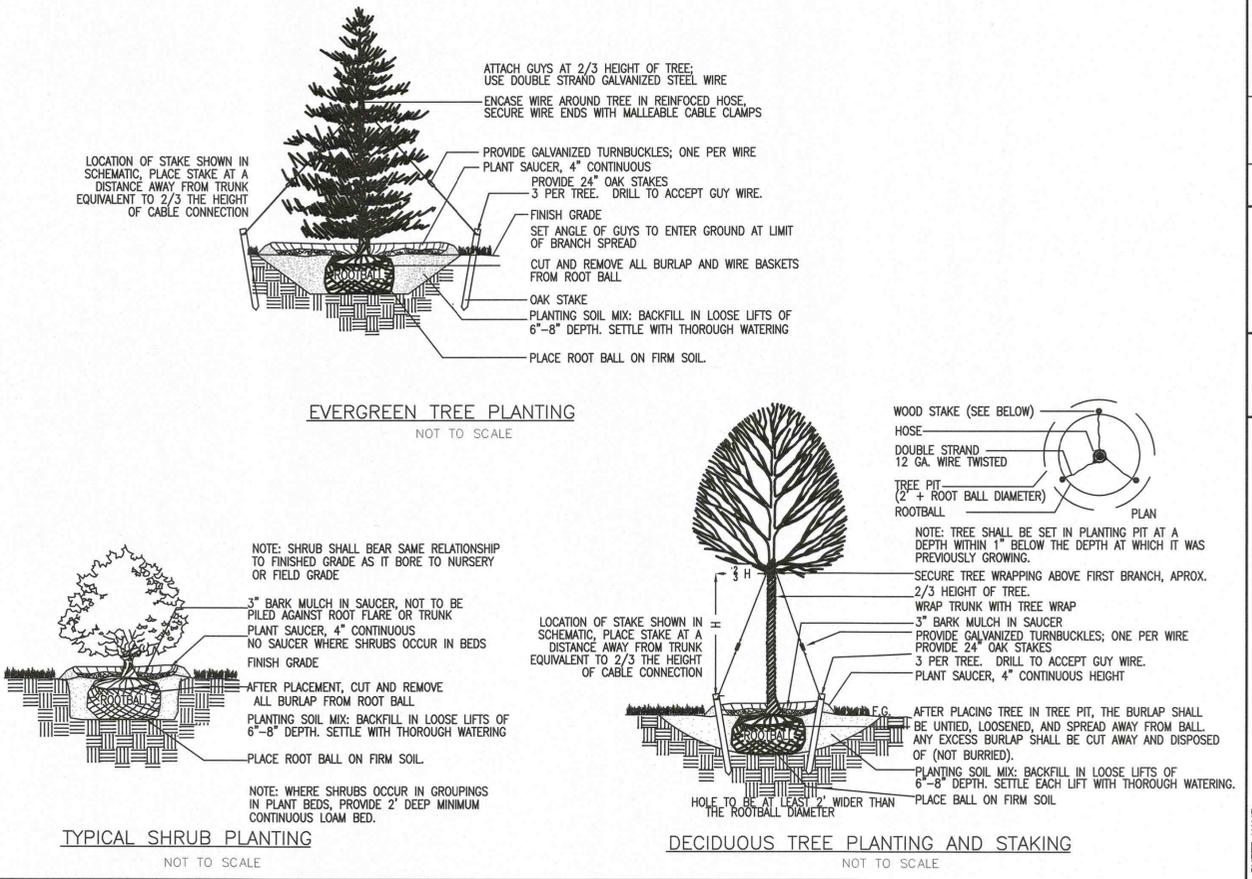
REV.	DATE	DESCRIPTION	BY	APP.
1	11/12/2019			

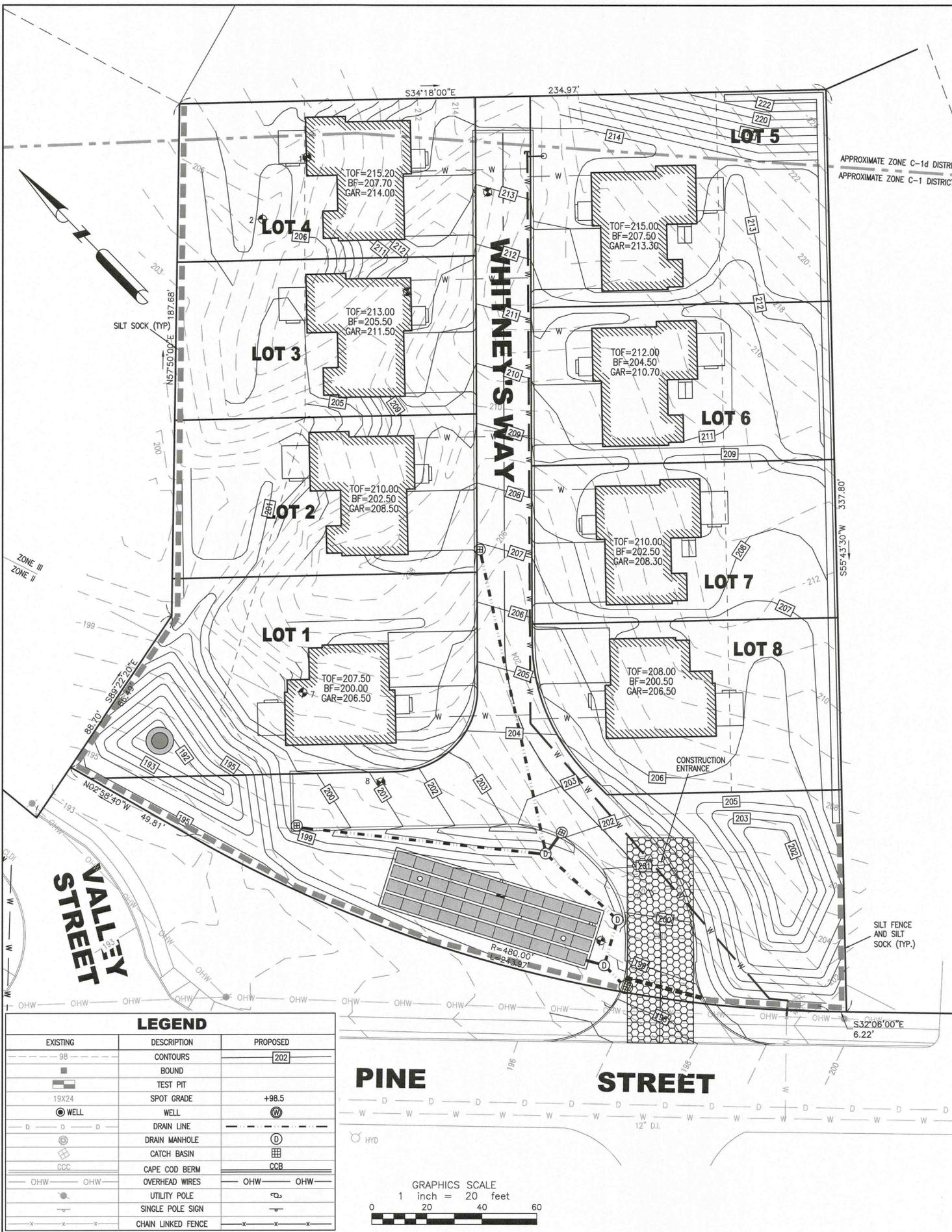
DATE: 11/12/2019
PROJECT NUMBER: 0101-07-01
DRAWING SCALE: 1" = 20'
SHEET ID: V1

DRAWN BY: RMF/JLB
DESIGNED BY: RMF/JLB
CHECKED BY: NCZ
APPROVED BY: JLB

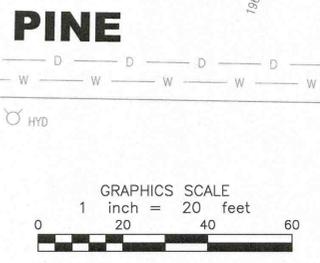
LANDSCAPE AND LIGHTING PLAN
35 PINE STREET / O VALLEY STREET
NORFOLK, MASSACHUSETTS
ROCCO REALTY II, LLC.
P.O. BOX 657
WALPOLE, MASSACHUSETTS 02081

S:\Civil Engineering Projects\Norfolk\Pine St\35 Pine Street\DWG\Comprehensive Site Plan Set.dwg





LEGEND	
EXISTING	PROPOSED
98	202
BOUND	BOUND
TEST PIT	TEST PIT
19x24	+98.5
WELL	WELL
DRAIN LINE	DRAIN LINE
DRAIN MANHOLE	DRAIN MANHOLE
CATCH BASIN	CATCH BASIN
CCC	CCC
CAPE COD BERM	CAPE COD BERM
OHW	OHW
OVERHEAD WIRES	OVERHEAD WIRES
UTILITY POLE	UTILITY POLE
SINGLE POLE SIGN	SINGLE POLE SIGN
CHAIN LINKED FENCE	CHAIN LINKED FENCE



EROSION & SEDIMENT CONTROL NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT SEDIMENTATION BEYOND THE LIMIT OF WORK OR OFFSITE PROPERTIES. IT IS INTENDED THAT THE IMPLEMENTATION OF THE FOLLOWING MEASURES WILL MEET THIS GOAL. WHEN IT IS CLEAR TO THE DESIGNER THAT EROSION AND SEDIMENTATION HAVE BEEN ADEQUATELY CONTROLLED WITHOUT THE IMPLEMENTATION OF EVERY MEASURE, ADDITIONAL MEASURES NEED NOT BE IMPLEMENTED. ALTERNATIVELY, IF ALL OF THE FOLLOWING MEASURES HAVE BEEN IMPLEMENTED AND THE CONTROL OF EROSION AND SEDIMENTATION IS INADEQUATE, THE CONTRACTOR MUST EMPLOY SUFFICIENT SUPPLEMENTAL MEASURES BEYOND THE SCOPE OF THIS PLAN, INCLUDING BUT NOT LIMITED TO JUTE NETTING, GEOTEXTILE, MULCH, WOOD CHIPS, HAY, RE-SEEDING AND EROSION CONTROL BLANKETS.

1. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO STUMP REMOVAL AND CONSTRUCTION. STABILIZATION OF ALL REGRADED AND SOIL STOCKPILE AREAS WILL BE INITIATED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL MUNICIPAL REGULATIONS. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION. A STAKED SILT SOCK SHALL BE INSTALLED DOWN GRADIENT OF ALL DRAINAGE OUTFALLS.
3. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE OWNER OR AGENTS OF THE OWNER.
4. CATCH BASINS WILL BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SILT SOCKS SHOULD BE INSTALLED UNDER GRATE OPENING UNTIL PAVEMENT IS IN PLACE AND GROUND SURFACE IS STABILIZED.
5. SEEDING MIXTURE FOR FINISHED GRASSED AREAS WILL BE AS FOLLOWS:

KENTUCKY BLUE GRASS	45%
CREeping RED FESCUE	45%
PERENNIAL RYEGRASS	10%

SEED TO BE APPLIED AT A RATE OF 4 LBS./1000 SQ. FT. PLANTING SEASONS SHALL BE APRIL 1 TO JUNE 1 AND AUGUST 1 TO OCTOBER 15. AFTER OCTOBER 15, AREAS WILL BE STABILIZED WITH HAYBALE CHECK, FILTER FABRIC, OR WOODCHIP MULCH, AS REQUIRED, TO CONTROL EROSION.

6. AREAS THAT ARE NOT THE LOCATION OF ACTIVE CONSTRUCTION WHICH ARE TO BE LEFT BARE FOR OVER ONE MONTH BEFORE FINISHED GRADING AND SEEDING IS ACHIEVED, SHALL BE MULCHED OR RECEIVE TEMPORARY STABILIZATION SUCH AS JUTE NETTING OR SHALL RECEIVE A TEMPORARY SEEDING OF PERENNIAL RYEGRASS APPLIED TO A RATE OF 2 LBS./1,000 SQ. FT. LIMESTONE (EQUIVALENT TO BE 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) SHALL BE APPLIED AS SEEDBED PREPARATION AT A RATE OF 90 LBS./1,000 SQ. FT. PLANTING SEASONS SHALL BE APRIL 1 TO JUNE 1 AND AUGUST 1 TO OCTOBER 15. AREAS TO BE LEFT BARE BEFORE FINISH GRADING AND SEEDING OUTSIDE OF PLANTING SEASONS SHALL RECEIVE AN AIR-DRIED WOOD CHIP MULCH, FREE OF COARSE MATTER.
7. AT ALL PROPOSED FILL AREAS WHICH ARE NOT CURRENTLY SHOWN ON THESE PLANS, THE CONTRACTOR SHALL ESTABLISH AN EROSION CONTROL LINE (HAYBALE CHECK OR FILTER FABRIC) ABOUT TEN (10') FEET FROM TOE TO SLOPE OF PROPOSED FILL AREAS PRIOR TO BEGINNING FILL INSTALLATION. STABILIZATION OF SLOPES IN FILL AREAS (USING MULCH OR GRASS) SHALL BE INITIATED WITHIN THIRTY (30) DAYS OF COMMENCEMENT OF FILL INSTALLATION.
8. STABILIZATION OF SLOPES IN CUT AREAS (USING MULCH OR GRASS) AND THE INSTALLATION OF CONTROL LINE (HAYBALE CHECK OR FILTER FABRIC) AT THE TOE OF SLOPE SHALL BE INITIATED WITHIN THIRTY (30) DAYS OF COMPLETION.
9. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN. ALL HAYBALES OR SILT FENCE RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT REMOVED AND ALL DAMAGED EROSION CONTROLS SHALL BE REPAIRED OR REPLACED.
10. CONTRACTOR WILL BE ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN. THE OWNER SHALL BE RESPONSIBLE FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
11. THE CONTRACTOR SHALL SECURE THE SERVICES OF A PROFESSIONAL ENGINEER, WHO SHALL VERIFY IN THE FIELD THAT THE CONTROLS REQUIRED BY THIS PLAN ARE PROPERLY INSTALLED, SHALL MAKE INSPECTION OF SUCH FACILITIES NOT LESS FREQUENTLY THAN EVERY 14 DAYS OR AFTER A RAINFALL IN EXCESS OF 1/2 INCH, WHICHEVER OCCURS FIRST.
12. STOCKPILES OF SOIL SHALL BE SURROUNDED BY A SEDIMENT BARRIER. SOIL STOCKPILES TO BE LEFT BARE FOR MORE THAN THIRTY (30) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH. IF SOIL STOCKPILES ARE TO REMAIN FOR MORE THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED IN PLACE OF HAYBALES. SIDE SLOPES SHALL NOT EXCEED 2:1.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO SPRINKLING OF WATER ON EXPOSED SOILS AND HAUL ROADS. CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC.
14. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN THIRTY (30) DAYS AFTER LAND DISTURBANCES CEASE, TEMPORARY VEGETATION OR MULCH SHALL BE USED TO STABILIZE SOILS.
15. SILT SOCK SHALL BE USED ONLY AS A TEMPORARY MEASURE. WHERE CONTROL MEASURES WILL BE REQUIRED FOR LONGER THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED.
16. WHERE DEWATERING IS NECESSARY, THERE SHALL NOT BE A DISCHARGE DIRECTLY INTO WETLANDS OR WATERCOURSES. PROPER METHODS AND DEVICES SHALL BE UTILIZED TO THE EXTENT PERMITTED BY LAW, SUCH AS PUMPING WATER INTO A TEMPORARY SEDIMENTATION BOWL, PROVIDING SURGE PROTECTION AT THE INLET AND THE OUTLET OF PUMPS, OR FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN THE SUSPENDED SOLIDS. IF A PUMPING OPERATION IS CAUSING TURBIDITY PROBLEMS, SAID OPERATION SHALL CEASE UNTIL SUCH TIME AS FEASIBLE MEANS OF CONTROLLING TURBIDITY ARE DETERMINED AND IMPLEMENTED. SAID DISCHARGE POINTS SHALL BE LOCATED OVER 100 FEET FROM THE DELINEATED WETLANDS AS INDICATED ON THIS PLAN.

STORMWATER MANAGEMENT SYSTEMS LONG-TERM OPERATION AND MAINTENANCE PLAN:

1.0 INTRODUCTION
THE 35 PINE STREET HAS BEEN DESIGNED TO ENSURE STORMWATER QUALITY. IN ORDER FOR THIS TO CONTINUE IN THE LONG TERM, IT IS NECESSARY TO IMPLEMENT THE FOLLOWING LONG TERM OPERATION AND MAINTENANCE PROGRAM.

2.0 RESPONSIBLE PARTY
OWNER: ROCCO REALTY II LLC.
PO BOX 657
WALPOLE, MA 02081
RESPONSIBLE FOR OPERATION AND MAINTENANCE: SAME

3.0 MAINTENANCE OF STORMWATER MANAGEMENT FACILITIES
THE STORM WATER MANAGEMENT FACILITIES WERE DESIGNED TO REQUIRE LITTLE OR NO INTERVENTION IN THE OPERATION AND TO REQUIRE LITTLE OR NO MAINTENANCE ONCE THE PROJECT IS BUILT AND STABLE VEGETATIVE COVER IS ESTABLISHED. HOWEVER, THE DRAINAGE IMPROVEMENTS SHALL BE SUBJECT TO THE FOLLOWING MAINTENANCE SCHEDULE:

- 3.1 ROUTINE MAINTENANCE**
1. DEBRIS: ALL DEBRIS AND LITTER ARE TO BE REMOVED FROM ALL CATCH BASINS, TRENCH DRAINS, SWALES, INFILTRATION BASINS AND SURROUNDING AREAS AT LEAST TWICE PER YEAR.
 2. RE-SEEDING: EMBANKMENTS THAT HAVE EXCESSIVE EROSION OR SLUMPING ARE TO BE RE-GRADED AND SEEDED (WITH CANARY GRASS OR TALL FESCUE GRASS) DURING THE SPRING OR FALL GROWING SEASONS AS NEEDED.
 3. INSPECT: INFILTRATION BASINS AND INFILTRATION CHAMBER SYSTEMS SHALL BE INSPECTED FOR SIGNS OF PROPER FUNCTIONING ON A MONTHLY BASIS. ANY POTENTIAL BLOCKAGES IN THE ROOF DOWN SPOUTS WILL BE REMOVED IF DISCOVERED. GUTTERS WILL BE CLEANED AT LEAST TWICE PER YEAR.
 4. MOWING: THE INFILTRATION BASIN SIDESLOPES SHALL BE MOWED AT LEAST TWICE PER YEAR. THE DETENTION BASIN BOTTOMS SHALL BE INSPECTED AT EACH MOWING EVENT. IF VEGETATION HAS ACCUMULATED THAT COULD CAUSE A NEGATIVE IMPACT ON THE FUNCTION OF THE BASIN, THEN IT SHALL BE REMOVED.

- 3.2 PERIODIC MAINTENANCE**
1. ALL CATCH BASIN SUMPS, TRENCH DRAINS AND WATER QUALITY UNIT WILL BE CLEANED A MINIMUM OF ONCE PER YEAR AND INSPECTED MONTHLY DURING THE ACTIVE CONSTRUCTION STAGE. IN THIS CLEANING, THE ENTIRE CONTENTS OF THE SUMPS AND TRENCH DRAINS WILL BE REMOVED.
 2. ACCUMULATED SEDIMENT IN THE WATER QUALITY UNIT WILL BE INSPECTED AND REMOVED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR, AT A MINIMUM, ONCE PER YEAR. IF THE ACCUMULATED SEDIMENT IS DISCOVERED TO BE GREATER THAN 15% OF THE CAPACITY OF THE DEVICE, THE SEDIMENT SHALL BE CLEANED OUT USING A VACUUM TRUCK.

- 3.3 NON-ROUTINE MAINTENANCE**
1. STRUCTURAL: ALL CATCH BASINS, TRENCH DRAINS, STORMCEPTOR UNITS, PIPES AND INFILTRATION BASINS SHOULD BE INSPECTED ONCE EVERY FOUR (4) YEARS FOR PROPER FUNCTION, CLOGGING, SIGNS OF DETERIORATION AND STRUCTURAL INADEQUACY. ANY ADVERSE SITUATIONS ARE TO BE REPAIRED AS NEEDED.

- 3.4 NON-PERIODIC INSPECTION**
1. THE STORM WATER MANAGEMENT SYSTEM SHALL BE INSPECTED AFTER TWO YEARS OF FULL OPERATION BY A REGISTERED PROFESSIONAL ENGINEER TO CONFIRM ITS ADEQUACY. THE INSPECTION SHALL INCLUDE AN EXAMINATION OF ALL COMPONENTS OF THE SYSTEM INCLUDING CATCH BASINS, WATER QUALITY UNITS AND INFILTRATION SYSTEMS.

4.0 PUBLIC SAFETY FEATURES
THE STORMWATER MANAGEMENT FACILITIES WERE DESIGNED TO BE INHERENTLY SAFE. ALL OF THE ACCESSIBLE STORMWATER CONTROLS (I.E., LOW POINTS, ETC.) WERE DESIGNED WITH 3:1 MINIMUM SIDE SLOPES TO ALLOW FOR PEDESTRIAN ACCESS IN AND OUT OF THE STORMWATER CONTROLS.

5.0 ESTIMATED O&M BUDGET
THE ESTIMATED ANNUAL BUDGET TO CONDUCT THE SPECIFIED OPERATION AND MAINTENANCE IS APPROXIMATELY \$1,500.00.

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NORFOLK ZONING BOARD OF APPEALS

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DATE _____



ZCE
ZENITH CONSULTING ENGINEERS, LLC
3 MAIN STREET LAKEVILLE, MA 02347
PHONE: (508) 947-4208



DATE	REV.	DATE	DESCRIPTION	BY	APP.
11/12/2019					
PROJECT NUMBER	0101-07-01				
DRAWING SCALE:	1" = 20'				
CHECKED BY:	NCZ				
APPROVED BY:	JLB				
SHEET ID	W1				

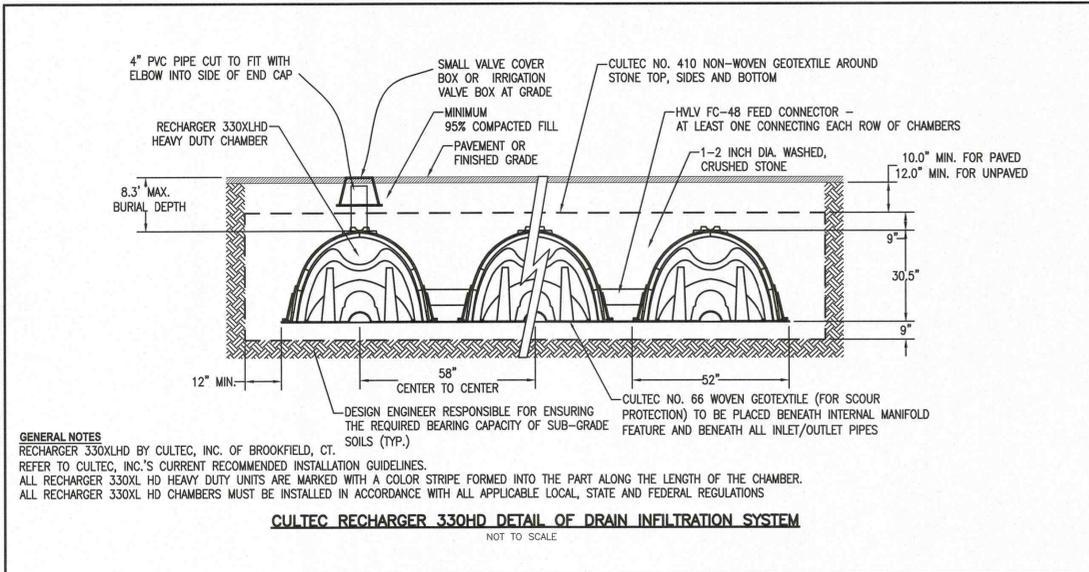
CONSTRUCTION OPERATION AND MAINTENANCE SCHEDULE

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PHASE IS THE RESPONSIBILITY OF THE DEVELOPER AND/OR SITE CONTRACTOR. THE OUTLINE BELOW SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE SYSTEM.

1. PRIOR TO CONSTRUCTION, SILT SOCK SHALL BE INSTALLED PER THE APPROVED PLANS. THE SILT SOCK SHALL BE INSPECTED PRIOR TO A LARGE STORM EVENT TO ENSURE THAT THE EROSION CONTROL WILL FUNCTION AS REQUIRED AND FOLLOWING A STORM TO INSPECT FOR DAMAGE TO THE EROSION CONTROL ELEMENTS. ANY DAMAGE OR IMPROPER INSTALLATION THAT IS NOTICED PRIOR TO OR FOLLOWING A STORM EVENT SHALL BE PROMPTLY REPLACED OR REPAIRED IN A SATISFACTORY MANNER SO AS TO PREVENT SEDIMENT FROM BYPASSING THE EROSION CONTROL BARRIER.
2. THE LIMIT OF CLEARING SHOWN ON THE APPROVED PLAN SHALL BE STRICTLY ADHERED TO. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LEVEL OF SAFETY OF STANDING TREES.
3. IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES, INCLUDING THE INFILTRATION BASINS, SHALL BE CONSTRUCTED AND STABILIZED AS SOON AS POSSIBLE. METHODS OF STABILIZATION INCLUDE, BUT ARE NOT LIMITED TO, HYDROSEED, LOAM AND SEED, STRAW MULCH, EROSION CONTROL BLANKETS, ETC.
4. THE CATCH BASINS, DRAINAGE MANHOLES AND STORMCEPTORS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. ANY SEDIMENT BUILDUP OF EIGHT (8) INCH DEPTH IN EITHER OF THE STRUCTURES SHALL BE PROMPTLY REMOVED BY HAND OR MECHANICAL METHODS AND ALL DEBRIS REMOVED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
5. THE INFILTRATION BASINS SHALL BE INSPECTED WEEKLY OR AFTER ALL RAINFALL EVENTS GREATER THAN 1/2 INCH, WHICHEVER OCCURS SOONER. ANY EROSION WITHIN THE BASINS SHALL BE FILLED AND RESTABILIZED IN A MANNER TO PREVENT FUTURE EROSION. IN ADDITION, THE OUTER PORTIONS OF THE INFILTRATION BASINS SHALL BE INSPECTED IN A SIMILAR MANNER.

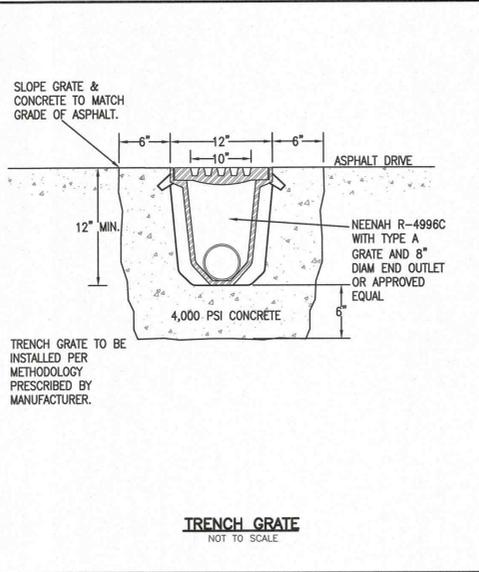
EROSION CONTROL PLAN
PROJECT SITE: 35 PINE STREET / O VALLEY STREET
NORFOLK, MASSACHUSETTS
CLIENT INFO: ROCCO REALTY II, LLC.
P.O. BOX 657
WALPOLE, MASSACHUSETTS 02081

S:\Civil Engineering\Projects\Norfolk\Pine St\35 Pine Street\DWG\Comprehensive Site Plan Set.dwg

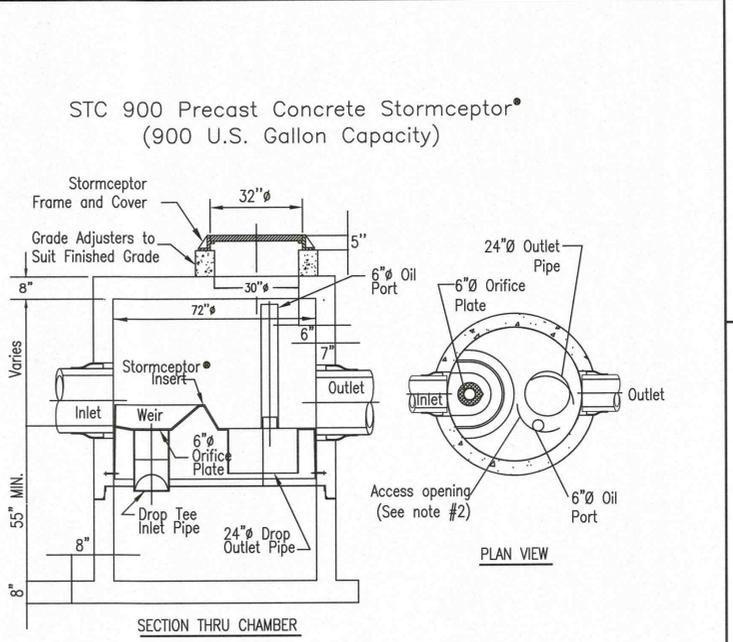


GENERAL NOTES
 RECHARGER 330XLHD BY CULTEC, INC. OF BROOKFIELD, CT.
 REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

CULTEC RECHARGER 330HD DETAIL OF DRAIN INFILTRATION SYSTEM
 NOT TO SCALE

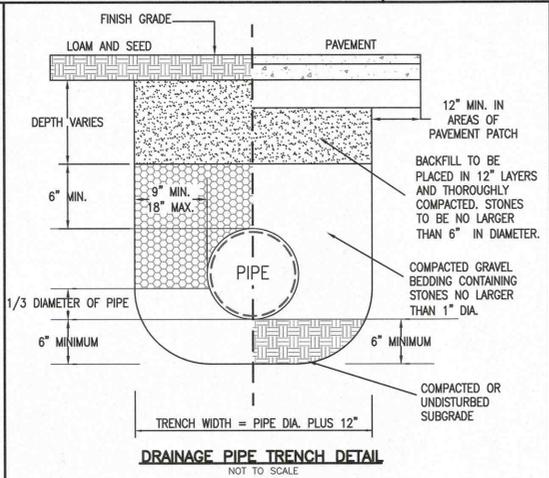
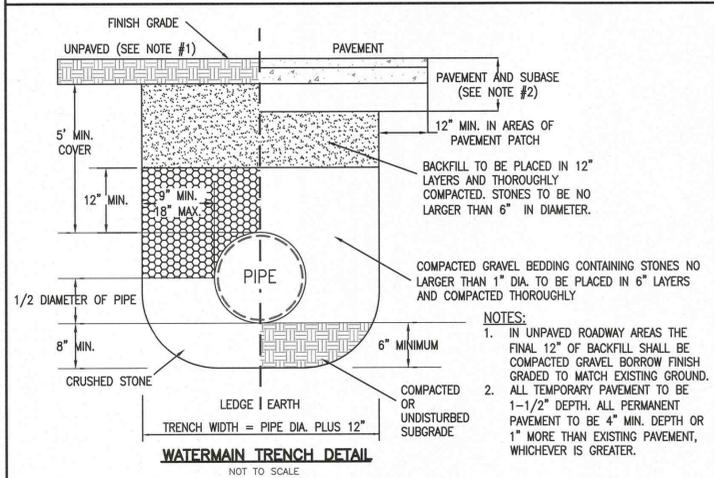


TRENCH GRATE
 NOT TO SCALE

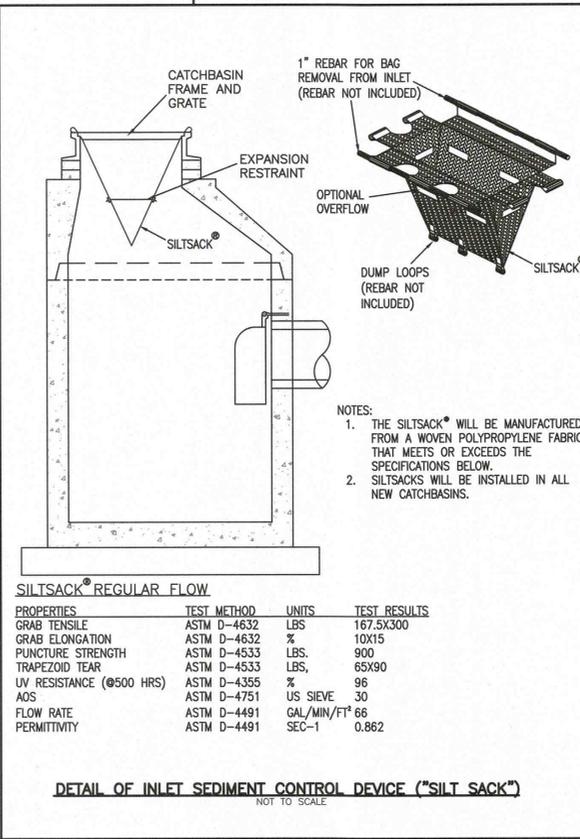
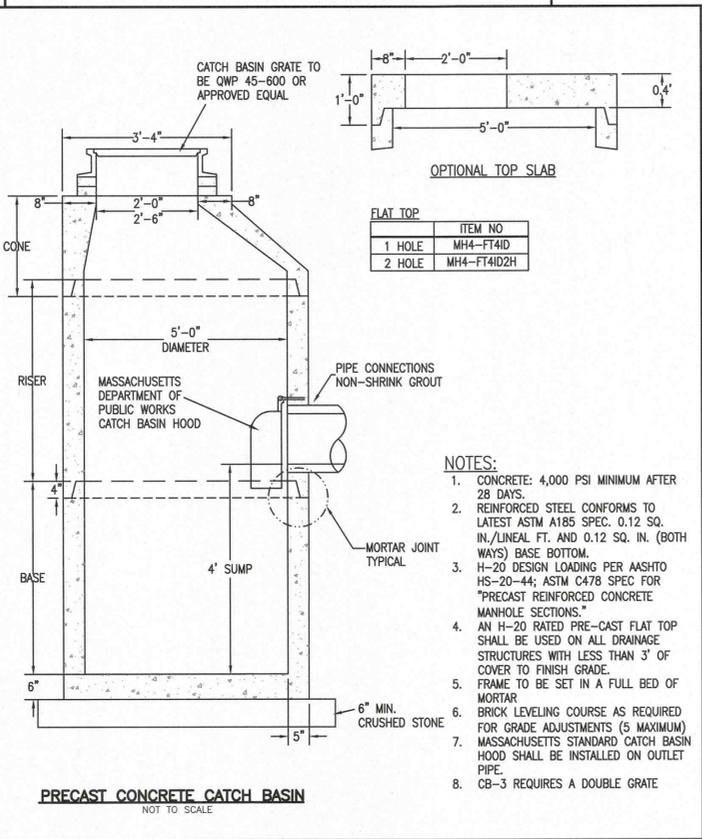
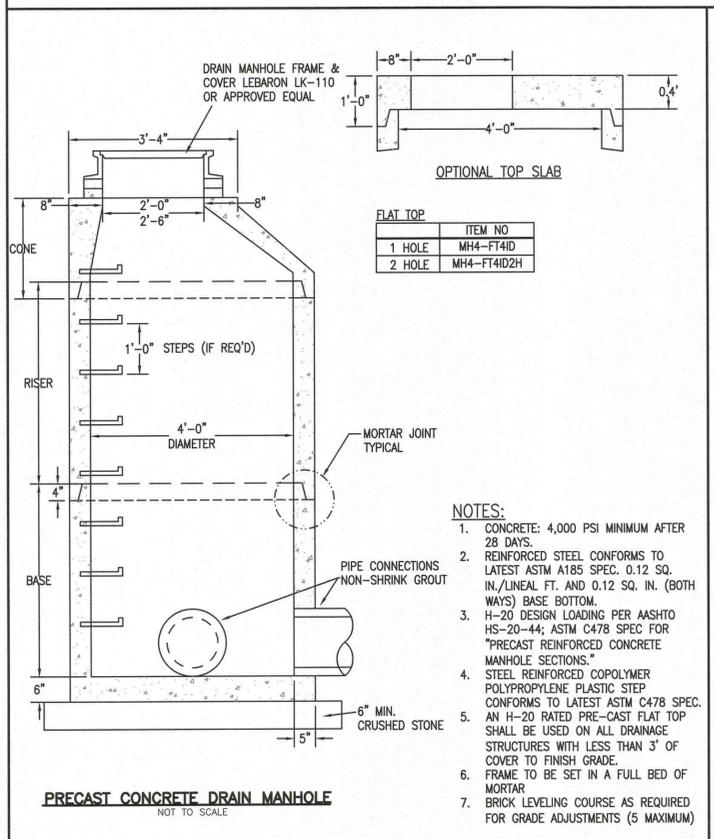


- NOTES:**
1. THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.
 3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. CONTACT A CONCRETE PIPE DIVISION REPRESENTATIVE FOR FURTHER DETAILS NOT LISTED ON THIS DRAWING.

STC 900 PRECAST CONCRETE STORMCEPTOR
 NOT TO SCALE

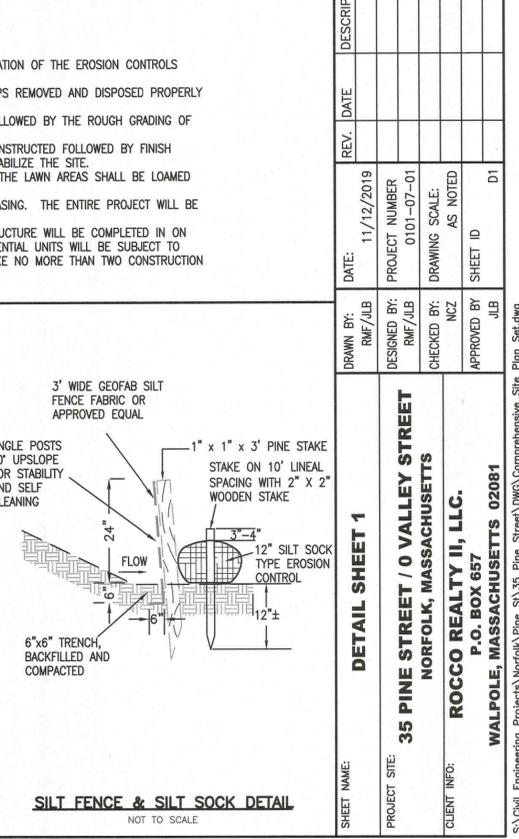
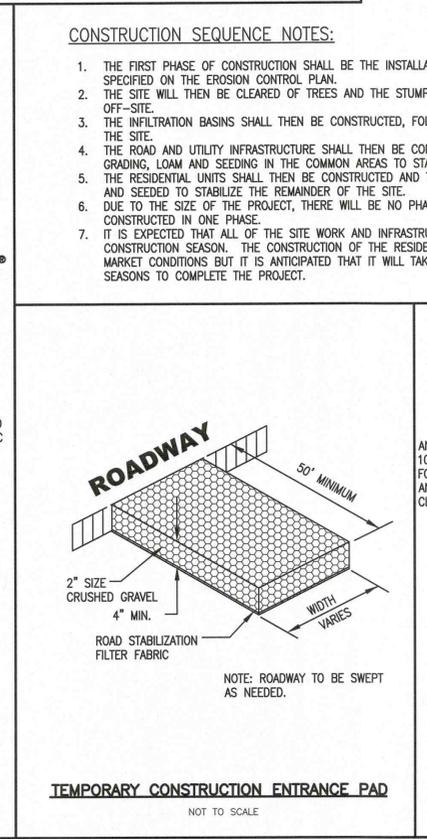


- GENERAL CONSTRUCTION NOTES:**
1. UNLESS OTHERWISE NOTED, ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS AND THE MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
 2. WATER SUPPLY LINES SHALL HAVE A MINIMUM OF 5 FEET OF COVER AND SHALL CONFORM TO THE CITY OF NORFOLK DEPARTMENT OF PUBLIC WORKS RULES AND REGULATIONS. WATER SUPPLY LINES AND SERVICES ARE TO BE GLASS 150 PIPE MINIMUM.
 3. THE BRAND, TYPE AND SPECIFICATIONS OF ALL WATER GATES, FITTINGS, PIPE MATERIALS AND WATER SYSTEM COMPONENTS SHALL BE APPROVED BY THE NORFOLK DIRECTOR OF PUBLIC WORKS.
 4. UNLESS OTHERWISE NOTED, ALL DRAINAGE PIPE IS TO BE ADS N-12 STYLE PIPE.



SILT SACK REGULAR FLOW

PROPERTIES	TEST METHOD	UNITS	TEST RESULTS
GRAB TENSILE	ASTM D-4632	LBS	167.5X300
GRAB ELONGATION	ASTM D-4632	%	10X15
PUNCTURE STRENGTH	ASTM D-4533	LBS.	900
TRAPEZOID TEAR	ASTM D-4533	LBS.	65X90
UV RESISTANCE (@500 HRS)	ASTM D-4355	%	96
AOS	ASTM D-4751	US SIEVE	30
FLOW RATE	ASTM D-4491	GAL/MIN/FT ²	66
PERMITTIVITY	ASTM D-4491	SEC-1	0.862



FOR REGISTRY USE ONLY

NORFOLK ZONING BOARD OF APPEALS
 APPROVED AND ENDORSED UNDER M.G.L. C. 40B BY THE NORFOLK ZONING BOARD OF APPEALS

APPROVED: _____
 ENDORSED: _____

TOWN CLERK, NORFOLK, MA DATE _____

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

DATE _____

ZCE ZENITH CONSULTING ENGINEERS, LLC
 3 MAIN STREET LAKEVILLE, MA 02347
 PHONE: (508) 947-4208

PROJECT SITE: 35 PINE STREET / O VALLEY STREET, NORFOLK, MASSACHUSETTS
CLIENT INFO: ROCCO REALTY II, LLC, P.O. BOX 657, WALPOLE, MASSACHUSETTS 02081

DETAIL SHEET 1

DATE:	11/12/2019	PROJECT NUMBER:	0101-07-01	DRAWING SCALE:	AS NOTED	SHEET ID:	D1
DESIGNED BY:	RMF/JLB	CHECKED BY:	NCZ	APPROVED BY:	JLB		

Stamp: ROBERT M. FROST, CIVIL ENGINEER, No. 38769, State of Massachusetts, License No. 14519

P.E. STAMP

