

STORMWATER RETROFIT PLANS
PREPARED FOR
TOWN OF EAST HAMPTON, CONNECTICUT
LOCATION #1: PAUL AND SANDY'S
LOCATION #2: CHRISTOPHER POND
LOCATION #3: WATER SUPPLY FACILITY FOR EDGEMERE CONDOMINIUMS
LOCATION #4: TOWN HALL POND
LOCATION #5: SPELLMAN POINT ROAD
LOCATION #6: BAY ROAD CULVERT
DATE: MAY 7, 2022

TRINKAUS ENGINEERING, LLC
CIVIL ENGINEERS
114 HUNTERS RIDGE ROAD
SOUTHBURY, CONNECTICUT 06488
203-264-4558 (office)
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APPROXIMATE PATH OF RUNOFF FROM IRRIGATION POND

LIMIT OF CLEARING AND AREA TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS

WATTLE #1

WATTLE #2

APPROXIMATE PATH OF RUNOFF FROM CT DOT CULVERT

WATTLE #3

LIMIT OF CLEARING AND AREA TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS

LIMIT OF CLEARING AND AREA TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS

WATTLE #1 LOCATION STAKED IN FIELD

WATTLE #2 LOCATION STAKED IN FIELD

WATTLE #3 LOCATION STAKED IN FIELD



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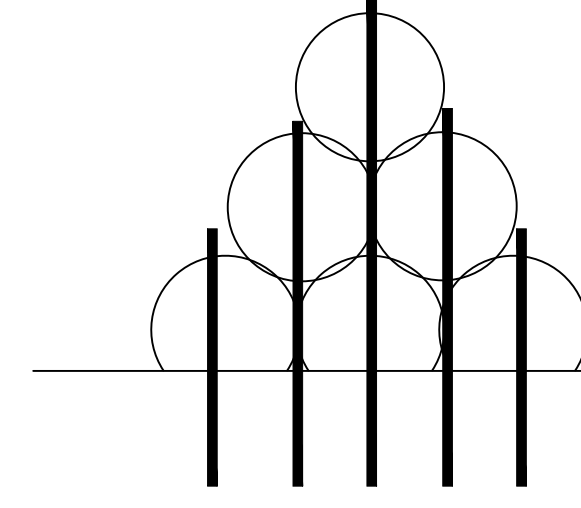


STORMWATER MANAGEMENT PLAN

SHEET 1 OF 9
PROJECT #017-2022
SCALE: 1" = 30'
DATE: 5/7/22

PREPARED FOR
TOWN OF EAST HAMPTON
PAUL AND SANDY'S NURSERY
EAST HAMPTON - CONNECTICUT

NOTE: EACH WATTLE SHALL BE 40' IN LENGTH (APPROXIMATE LOCATIONS ARE STAKED IN THE FIELD). EACH WATTLE BARRIER SHALL CONSIST OF SIX STAKED 6" FILTREXX SOXX IN TRIANGULAR CROSS SECTION (SEE DETAIL) AND STAKED IN PLACE. END OF SOXX SHALL BE TIGHTLY BUTTED TOGETHER AND JOINTS SHALL BE STAGGERED AND NOT IN LINE. NOTE: BRUSH SHALL BE CLEARED BY HAND AT EACH WATTLE LOCATION FOR THE BARRIER AS WELL AS 10' BEYOND THE LIMIT OF THE WATTLE BARRIER. REMOVED BRUSH SHALL BE PLACED OUTSIDE LIMIT OF CLEARED END. THE GROUND SURFACE SHALL BE LIGHTLY RAKED WITH A METAL GARDEN RAKE AND THEN SEED WITH NEW ENGLAND WETMIX FROM NEW ENGLAND WETLAND PLANTS AND COVERED WITH STRAW SHREDDED MULCH.



6" FILTREXX SOXX BARRIER ACROSS FLOW PATH OF RUNOFF
 - THREE ON BOTTOM
 - TWO ON MIDDLE
 - ONE ON TOP
 - SOXX SHALL BE STAKED IN PLACE USING 1" X 1" OAK STAKES. THE STAKES SHALL BE DRIVEN A MINIMUM OF 12" INTO EXISTING GRADE - STAKES SHALL BE SET 12" FROM THE END OF THE SOXX AND AT EIGHT (8) FOOT SPACING (PLUS OR MINUS)

EXISTING GRADE
 NOTE: THE SOXX ON THE BOTTOM AND SHALL BE STEPPED ON BY MANUAL LABORERS TO FLATTEN THE BOTTOM OF THE SOXX ONTO THE EXISTING GRADE PRIOR TO STAKING IN PLACE

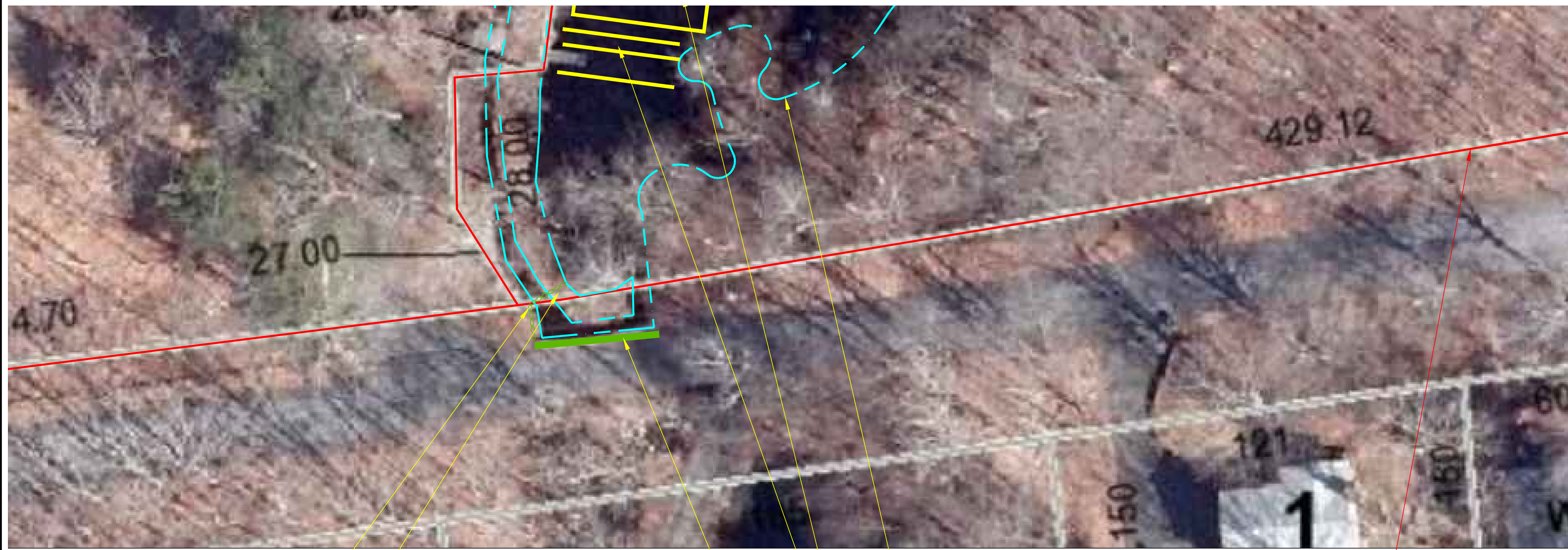
PREPARED FOR
 TOWN OF EAST HAMPTON
 PAUL AND SANDY'S NURSERY
 EAST HAMPTON - CONNECTICUT

STORMWATER MANAGEMENT PLAN

SHEET 2 OF 9
 PROJECT #017-2022
 SCALE: 1" = 20'
 DATE: 5/7/22



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SAND BAG BARRIER FROM END OF HEADWALL TO NORTH, THEN ACROSS BYPASS CHANNEL (OPEN WATER) AND TO NORTH SIDE OF EARTH BERM - SEE DETAIL AND PHOTOGRAPHS
 AFTER SAND BAG BARRIER HAS BEEN PLACED, EARTH SHALL BE REMOVED BY HAND ON SOUTH SIDE OF SAND BAG BARRIER TO LOWER GRADE TO TOP OF STONES (SEE PHOTOGRAPH) ACROSS BERM - WIDTH OF SOIL TO BE REMOVED SHALL BE 36"

EXISTING HEADWALL

APPROXIMATE EDGE OF POND AND BYPASS CHANNEL TAKEN FROM GIS MAPPING

PROPERTY LINE PER TOWN OF EAST HAMPTON GIS MAPPING

APPROXIMATE LOCATION OF FLOATING WETLAND TREATMENT SYSTEMS (1,000 SQUARE FEET)
 THREE ROWS OF CATTAILS TO BE PLANTED IN THIS GENERAL AREA

LOCATION OF SAND BAG BARRIER STAKED IN THE FIELD



LOCATION WHERE SOIL TO BE REMOVED TO ELEVATION OF TOP OF STONES ON UPHILL SIDE OF SAND BAG BARRIER



LOCATION OF SAND BAG BARRIER FROM STAKE TO FACE OF HEADWALL



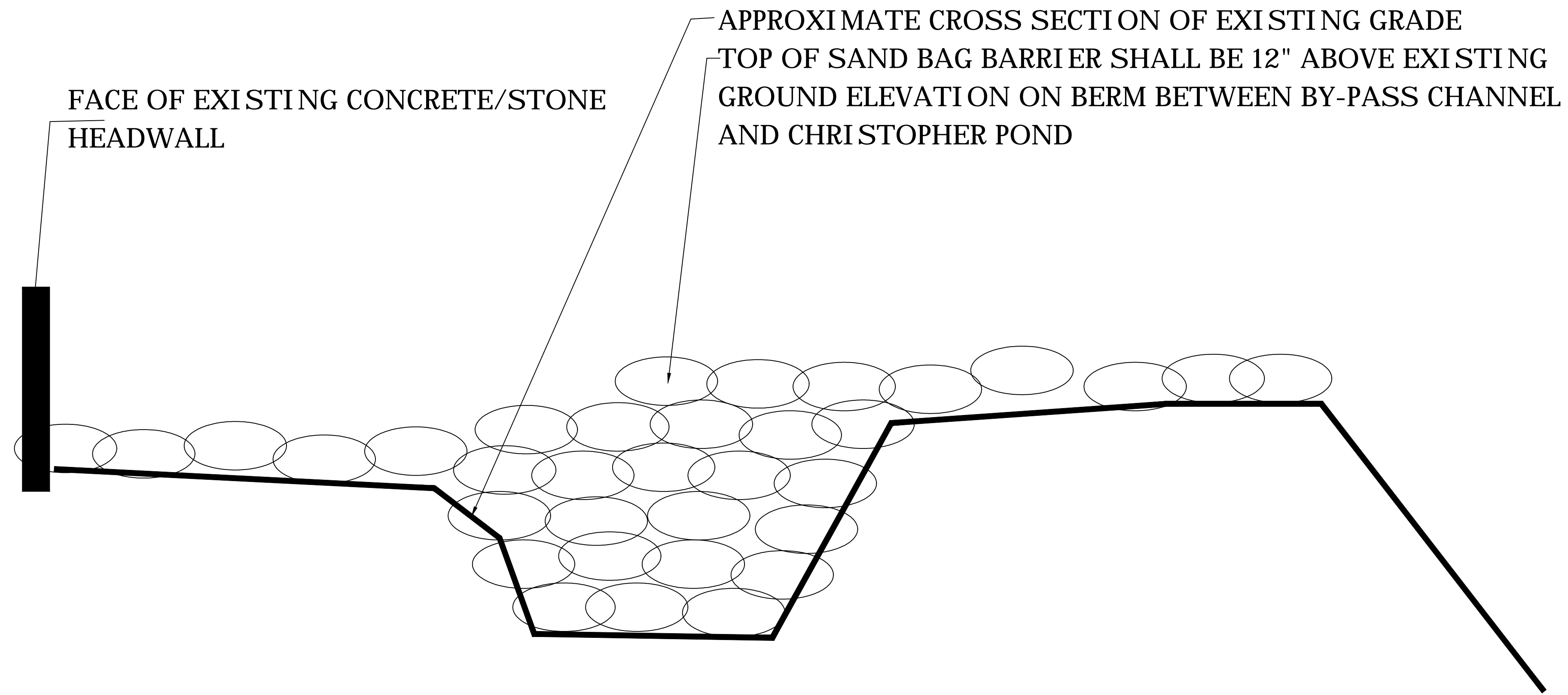
PREPARED FOR
 TOWN OF EAST HAMPTON
 CHRISTOPHER POND
 EAST HAMPTON - CONNECTICUT

STORMWATER MANAGEMENT PLAN

SHEET 3 OF 9
 PROJECT #017-2022
 SCALE: 1" = 20'
 DATE: 5/7/22



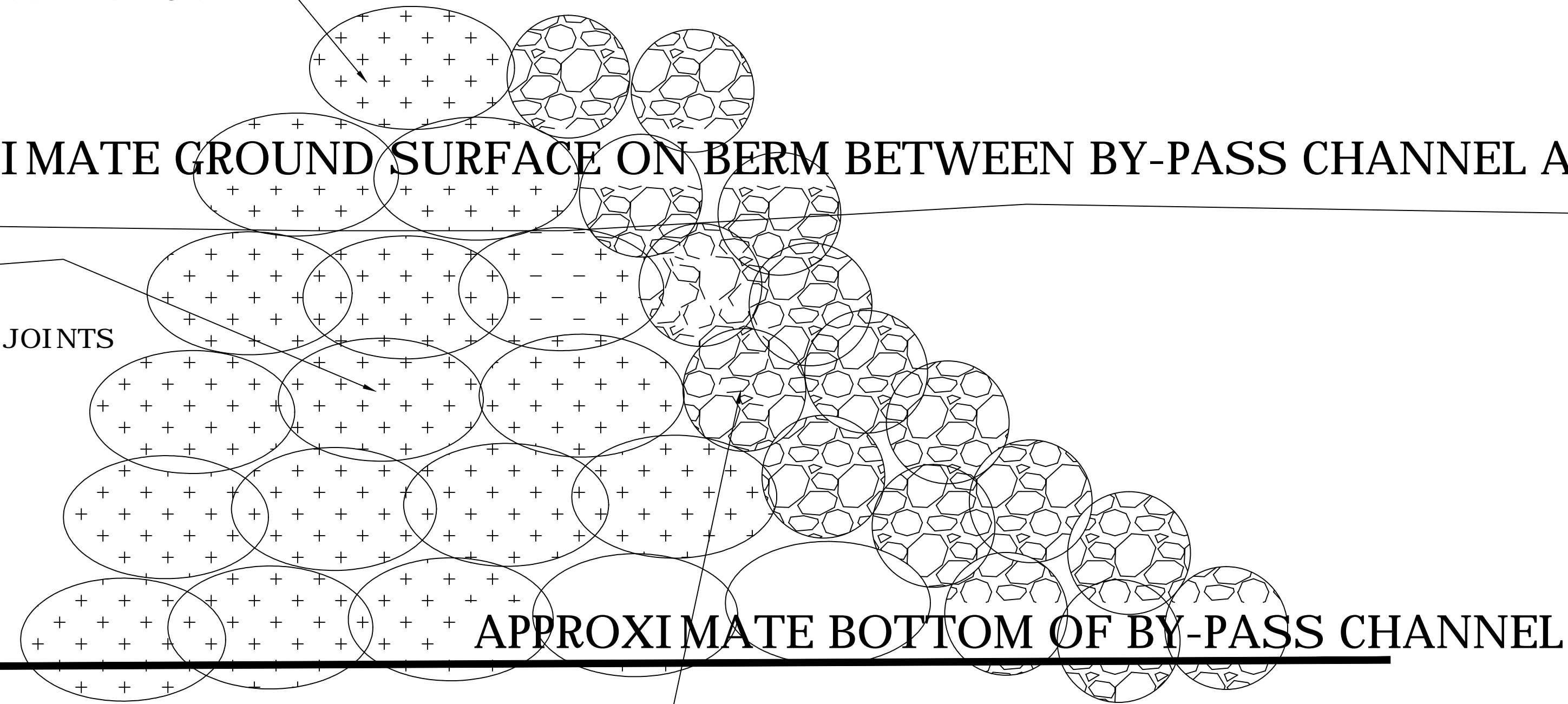
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TOP OF SAND BAG BARRIER SHALL BE 12" HIGHER THAN EXISTING GRADE ON BERM BETWEEN BY-PASS CHANNEL AND POND

APPROXIMATE GROUND SURFACE ON BERM BETWEEN BY-PASS CHANNEL AND CHRISTOPHER POND

TYPICAL CROSS SECTION OF SAND BAG BARRIER
 BOTTOM WIDTH = 36"
 SAND BAGS SHALL BE STAKED WITH OVERLAPPING JOINTS AND FITTED TIGHTLY TOGETHER.



NOTE: UPSTREAM FACE OF SAND BAGS SHALL BE 3:1 (HORIZONTAL TO VERTICAL) A 12" THICK LAYER OF NATIVE FIELD STONES SHALL BE PLACED ON UPSTREAM SIDE OF SAND BAGS TO REDUCE FLOW VELOCITIES - EXTENT OF FIELD STONES SHALL EXTEND FROM FACE OF EXISTING HEADWALL TO CENTER OF BERM ACROSS THE BY-PASS CHANNEL.

NOTE: AFTER THE BY-PASS CHANNEL HAS BEEN BLOCKED OFF BY THE SAND BAGS, THE TOP AND DOWNSTREAM SIDE OF THE SAND BAGS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDED WITH NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX BY NEW ENGLAND WETLAND PLANTS (www.newp.com)



WATTLE #1 LOCATION

EXISTING WELL

WATTLE #2 LOCATION

WATTLE #3 LOCATION



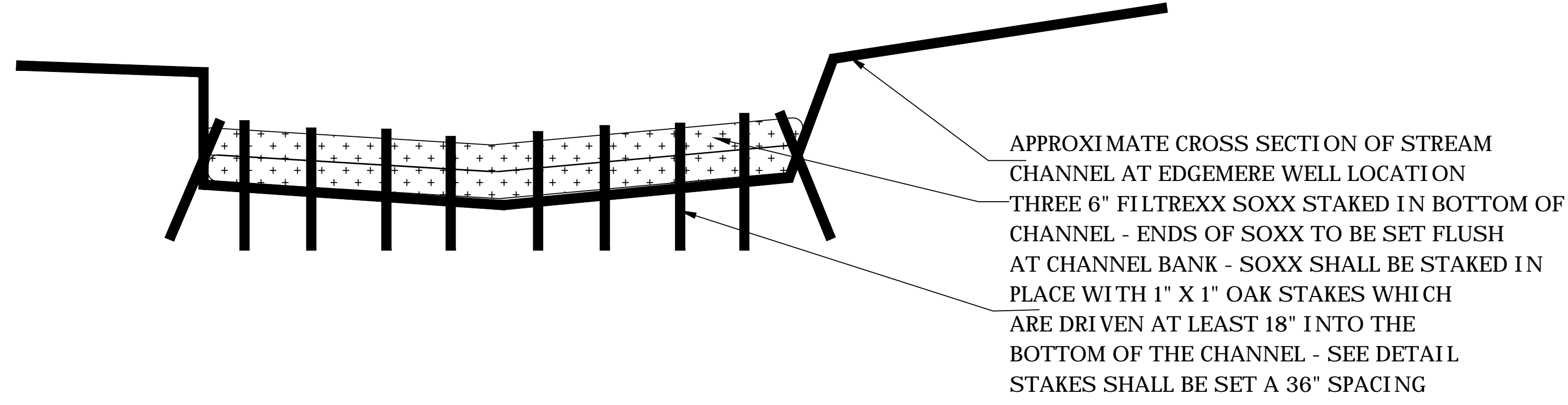
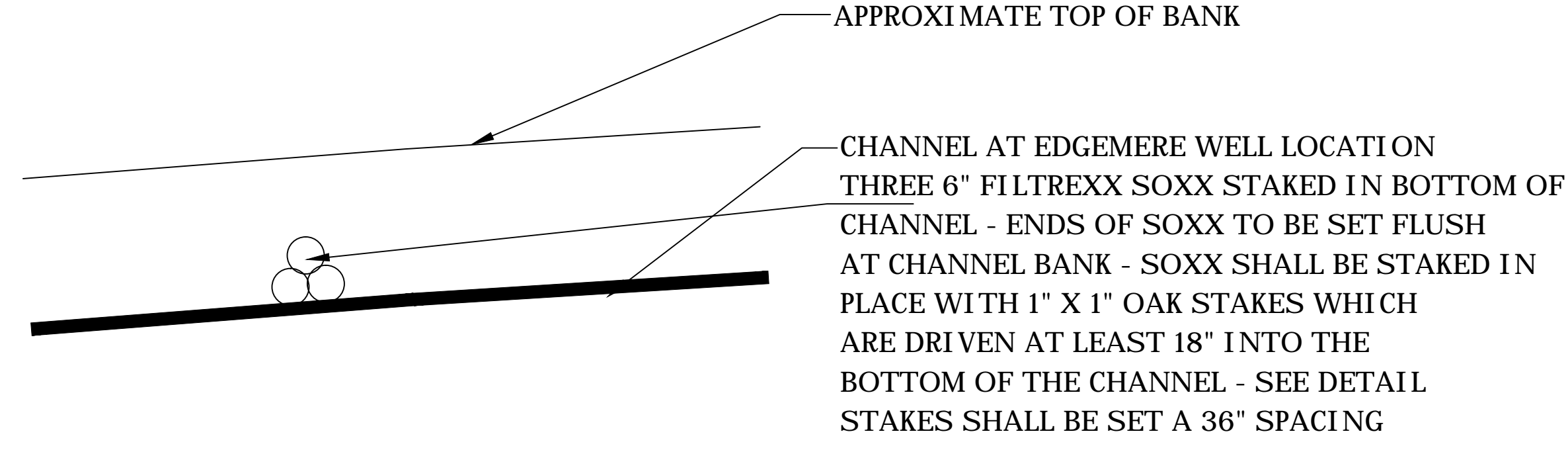
PREPARED FOR
 TOWN OF EAST HAMPTON
 EDGEMERE WATER SUPPLY WELLS
 EAST HAMPTON - CONNECTICUT

STORMWATER MANAGEMENT PLAN

SHEET 5 OF 9
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TYPICAL CROSS SECTION OF FILTREXX SOXX CROSSING
NOT TO SCALE

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STORMWATER MANAGEMENT PLAN
SHEET 6 OF 9
PROJECT #017-2022
SCALE: 1" = 20'
DATE: 5/7/22

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TOWN OF EAST HAMPTON
EDGEMERE WATER SUPPLY WELLS
EAST HAMPTON - CONNECTICUT



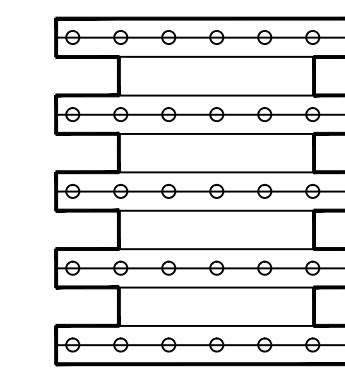
EXISTING FLARED END



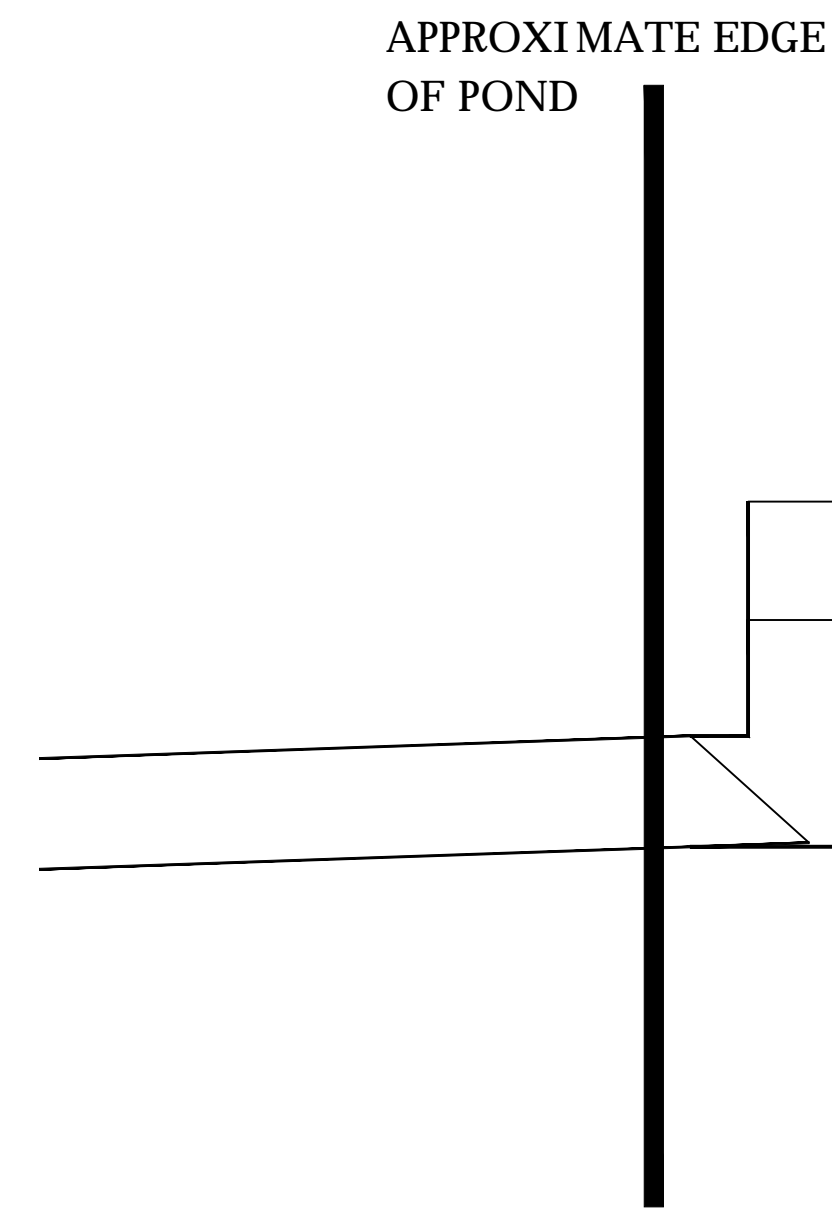
POND AND OUTLET PIPE #1



POND AND OUTLET PIPE #2



12" SECTION OF 15" DIAMETER OF HANCOR N-12 PIPE - 0.5" DRILLED HOLES ON OUTER RIBS AT 6" CENTER TO CENTER SPACING AROUND PERIMETER OF PIPE - SPACING MAY BE ADJUSTED BY CONTRACTOR IN THE FIELD.



TOWN HALL POND

12" LONG SECTION OF HANCOR N-12 PIPE WITH 0.5" PERFORATIONS ON EXTERNAL RIBS AT 6" ON CENTER SPACING (SEE DETAIL)

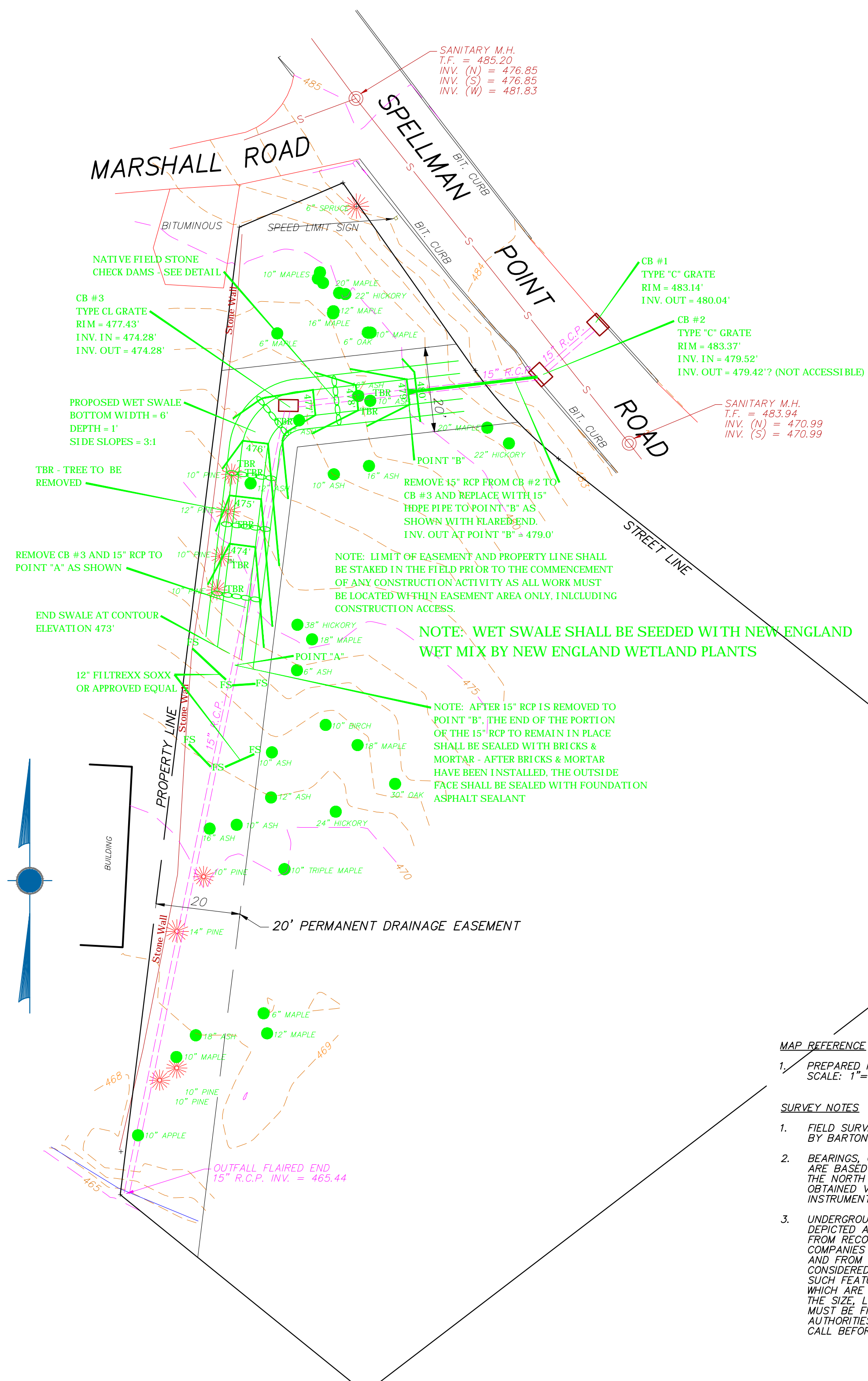
90 DEGREE HANCOR N-12 PIPE (15" DIAMETER)

EXISTING 15" HANCOR N-12 PIPE WITH FLARED END

- PROPOSED WORK:
1. REMOVED FLARED END SECTION,
 2. INSTALL UPTURNED 90 DEGREE (HANCOR N-12 PIPE)
 3. INSTALL 12" LONG SECTION OF 15" HANCOR PIPE WITH PERFORATIONS (SEE DETAIL)

NOTE: USE HANCOR GASKETED FITTING OR FERNCO FITTING WITH METAL BANKS FOR ALL PIPE JOINTS TO SEAL THE JOINTS AND PREVENT LEAKS

NOTE: CONTRACTOR TO REMOVE BRUSH BY HAND CUTTING AND LOOSE ORGANIC DEBRIS WITHIN 5' OF THE EXISTING OUTLET PIPE TO MINIMIZE THE POTENTIAL OF CLOGGING.

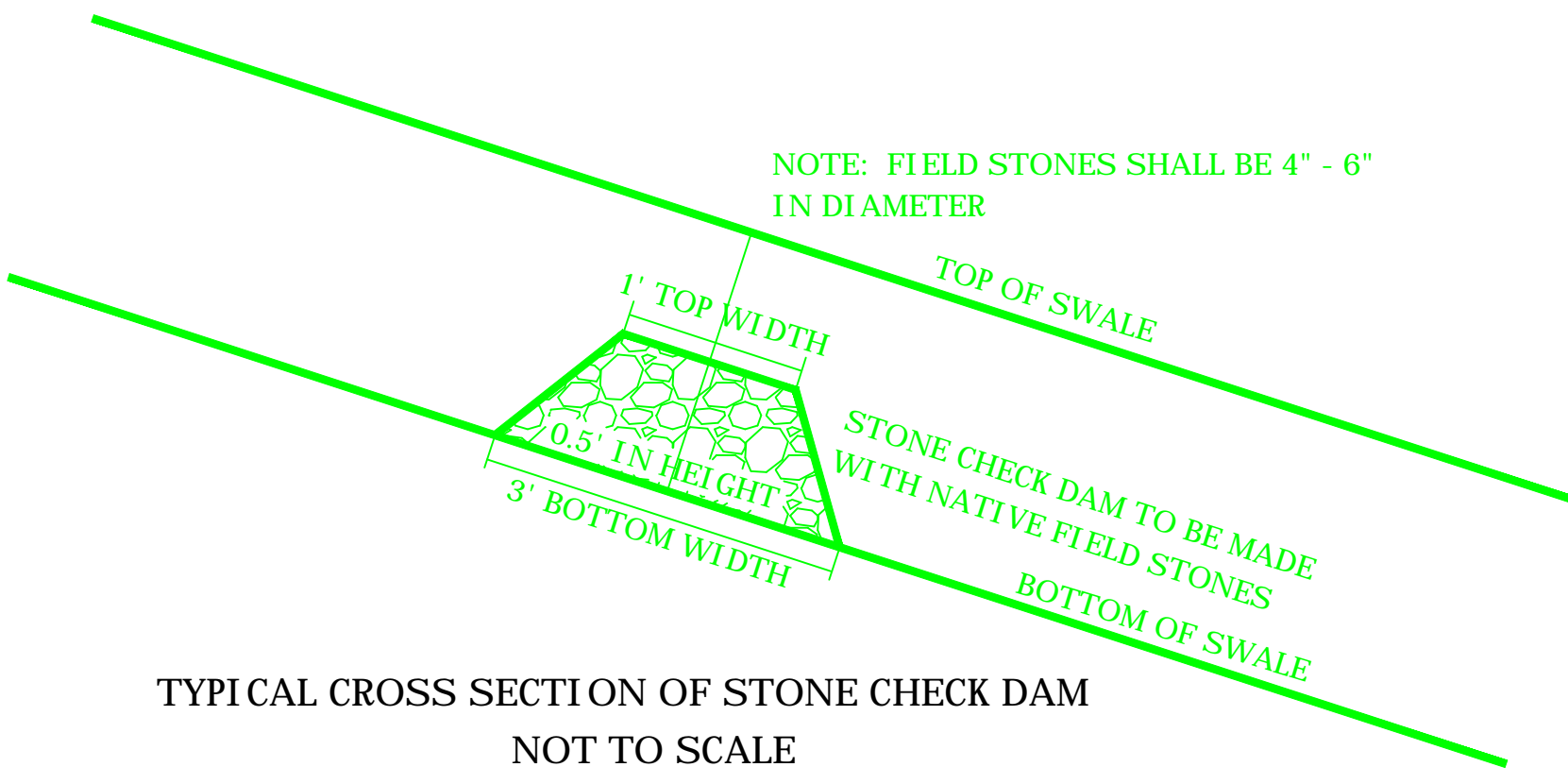
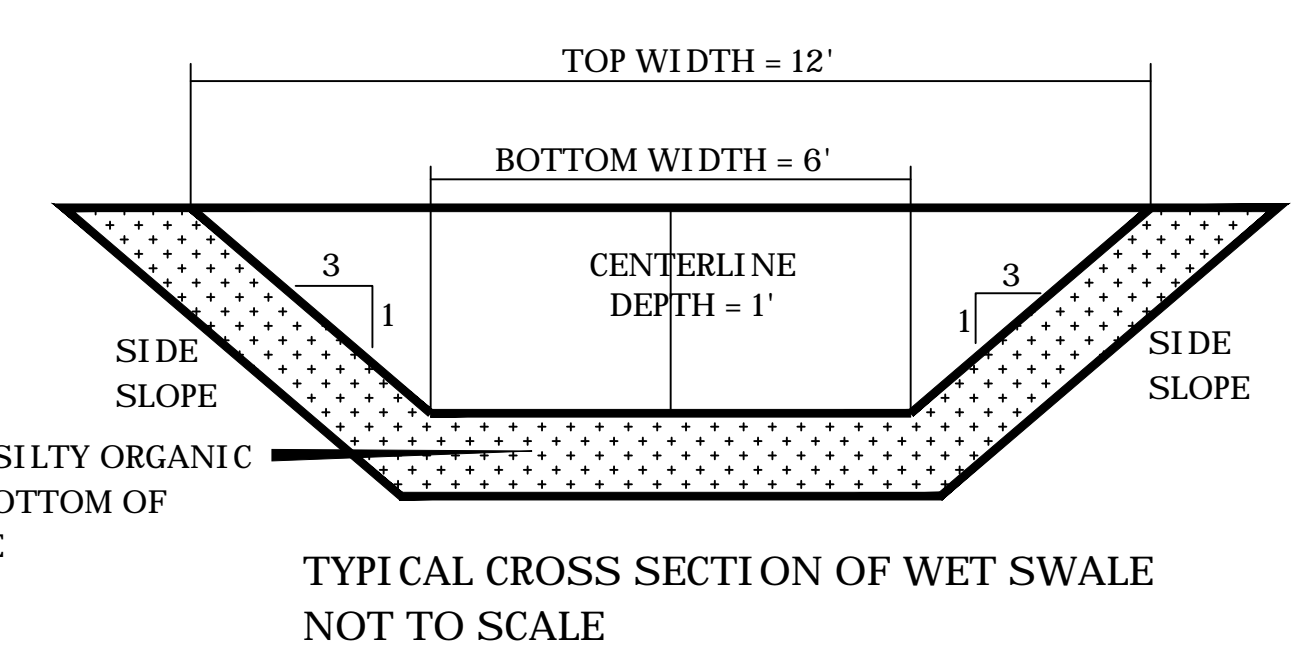


MAP REFERENCE

- PREPARED FOR SPELLMAN ASSOCIATES LLC, EAST HAMPTON, CONN. SCALE: 1"=20'. DATE: 10-23-00. BY: MEGSON & HEAGLE.

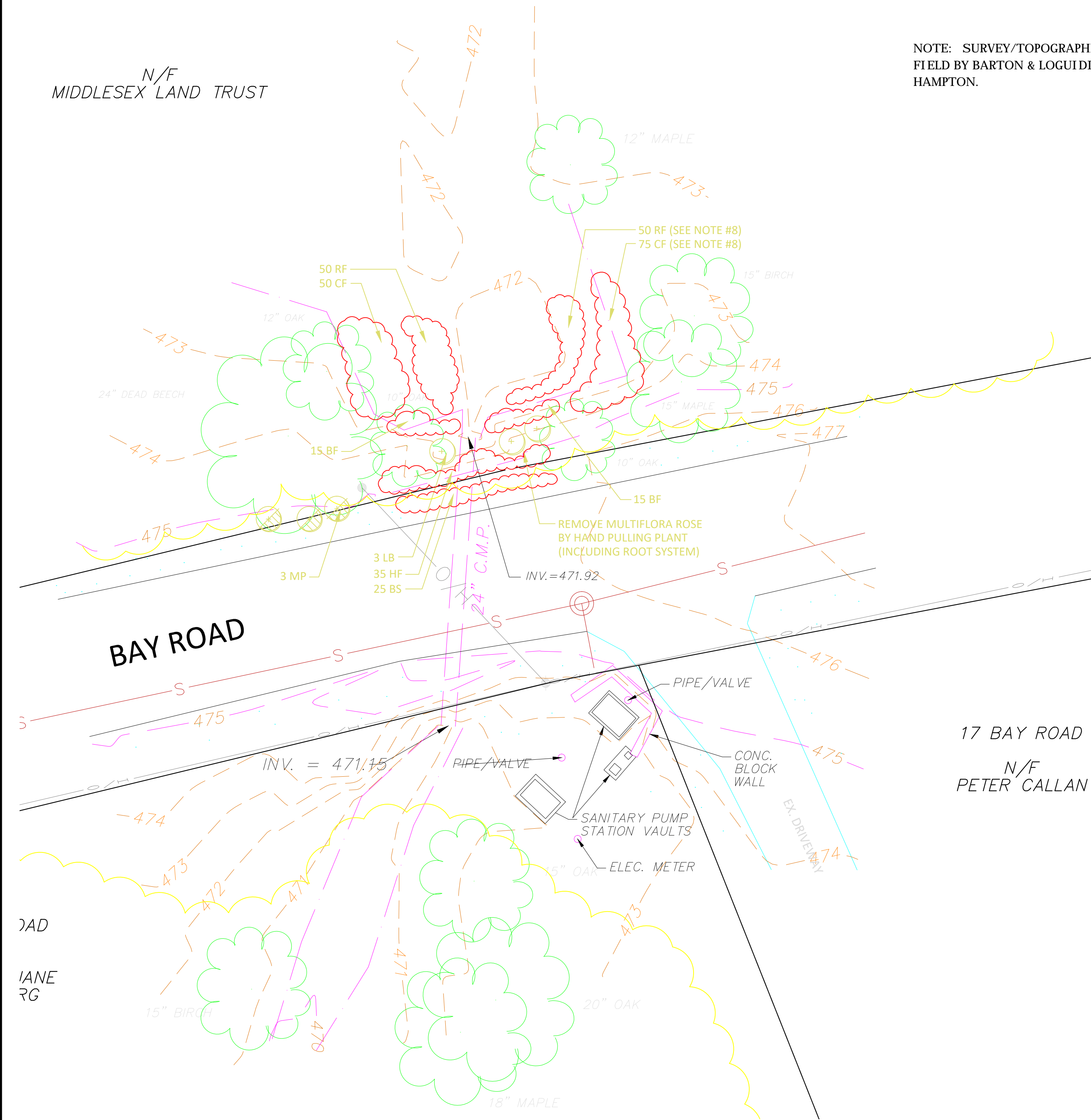
SURVEY NOTES

- FIELD SURVEY SHOWN WAS PERFORMED ON THE GROUND BY BARTON AND LOGUIDICE, LLC, INC. ON MARCH 30, 2022.
- BEARINGS, COORDINATES, AND ELEVATIONS DEPICTED HEREON ARE BASED ON THE NORTH AMERICAN DATUM 1983 (NAD 83) AND THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) AND WERE OBTAINED VIA RTK GPS PROCESSED THROUGH THE SUPERIOR INSTRUMENT RTK NETWORK.
- UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENT AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO ANCHOR ENGINEERING SERVICES, INC.. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG: 1-(800) 922-4455



N/F
MIDDLESEX LAND TRUST

NOTE: SURVEY/TOPOGRAPHIC DATA WAS OBTAINED IN THE FIELD BY BARTON & LOGUIDICE, LLC FOR THE TOWN OF EAST HAMPTON.

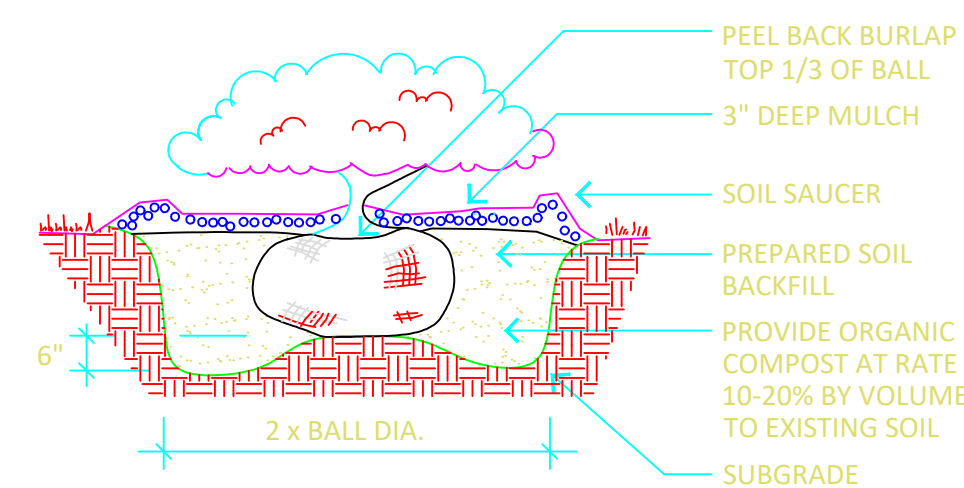


17 BAY ROAD
N/F
PETER CALLAN

PLANT LIST

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
3	LB	LINDERA BENZOIN	SPICEBUSH	2-3' HT.	CONT.	
3	MP	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	2-3' HT.	CONT.	
35	HF	DENNSTAEDIA PUNCTILOBA	HAYSCENTED FERN	1 QT.		
30	BF	IRIS VERSICOLOR	BLUE FLAG IRIS	1 QT.		
125	CF	OSMUNDA CINNAMOMEA	CINNAMON FERN	#1 CONT.		STAKE PLANTS
100	RF	OSMUNDA REGALIS	ROYAL FERN	#1 CONT.		STAKE PLANTS
25	BS	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 QT.		

NOTE: HERBACEOUS PLANTS AVAILABLE AT PINELANDS NURSERY & SUPPLY (PINELANDSNURSERY.COM) AND NEW ENGLAND WETLANDS PLANTS, INC. (NEWPCOM).



SHRUB PLANTING DETAIL

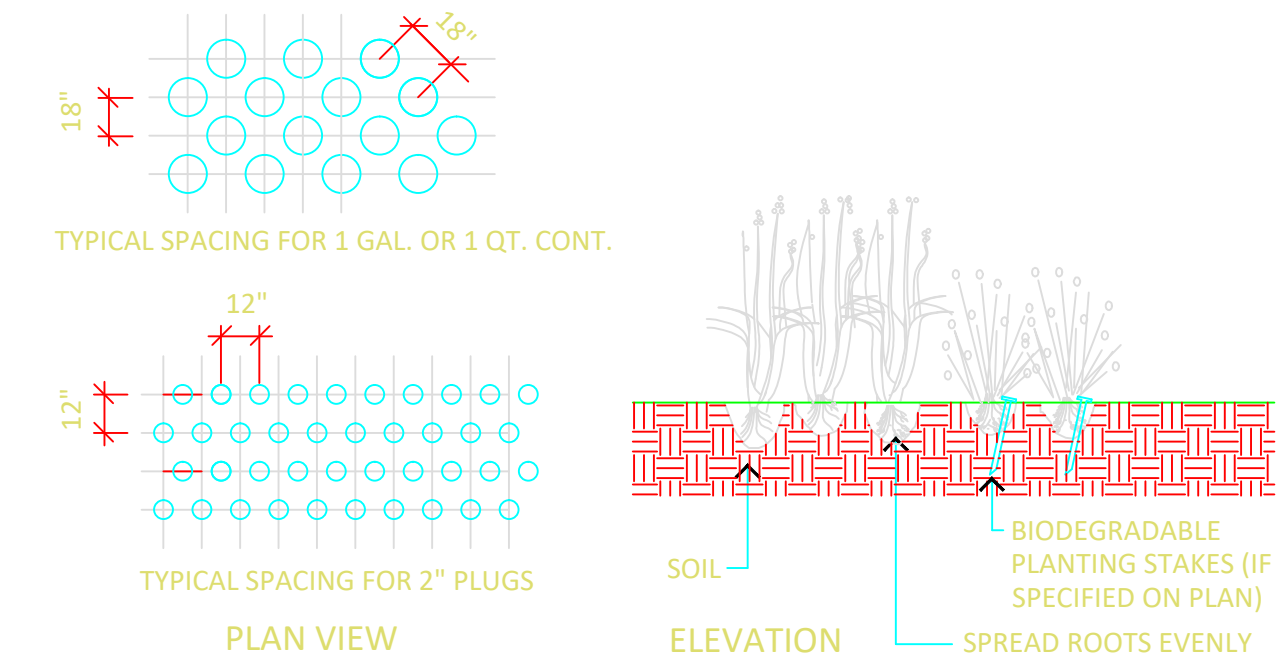
SCALE: NOT TO SCALE

LEGEND

- PROPERTY LINE
- WETLAND LINE
- NONNATIVE INVASIVE SPECIES MANAGEMENT AREA
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TREE LINE TO REMAIN (APPROX.)
- NEW DECIDUOUS SHADE TREE
- NEW DECIDUOUS SMALL TREE
- NEW SHRUB
- NEW SEEDED AREA (AS PER PLAN NOTES)

NOTES:

1. EXISTING AND PROPOSED SITE INFORMATION TAKEN FROM A DIGITAL AUTOCADD SITE PLAN SUPPLIED BY TRINKAUS ENGINEERING, LLC.
2. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 TO HAVE UNDERGROUND UTILITY LINES MARKED BY THEM PRIOR TO START OF ANY EXCAVATION WORK.
3. EXACT LOCATION OF PROPOSED PLANTINGS AND SPECIES TYPES MAY VARY FROM THIS PLAN BASED ON ACTUAL FIELD CONDITIONS.
4. PLANT SPECIES SUBSTITUTIONS MAY BE MADE WITH THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PLANTING. SUBSTITUTED PLANTS SHALL BE AT AN EQUAL OR GREATER SIZE AS NOTED USING A SIMILAR TYPE PLANT.
5. PLANTING METHODS SHALL BE IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
6. THIS PLAN FOR PLANTING PURPOSES ONLY.
7. SPRAY NEW PLANTINGS IMMEDIATELY AFTER INSTALLATION WITH A WHITE-TAILED DEER REPELLENT AND CONTINUE AS NEEDED TO MAINTAIN PLANTS FREE OF SIGNIFICANT DEER BROWSING.
8. ROYAL AND CINNAMON FERNS TO BE PLANTED WHEN WATER LEVELS ARE LOW AND SHALL BE STAKED USING 4-6" LONG BIODEGRADABLE STAKES.



- NOTES:
1. WETLAND PLANTS ARE NOT TO BE FERTILIZED (UNLESS OTHERWISE SPECIFIED).
 2. ROOTS SHALL BE CAREFULLY SEPARATED AND EVENLY SEPARATED THROUGHOUT THE PLANTING HOLE.

HERBACEOUS PLANTING DETAILS

SCALE: NOT TO SCALE

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STORMWATER MANAGEMENT PLAN
SHEET 9 OF 9
PROJECT #017-2022
SCALE: 1" = 10'
DATE: 5/7/22

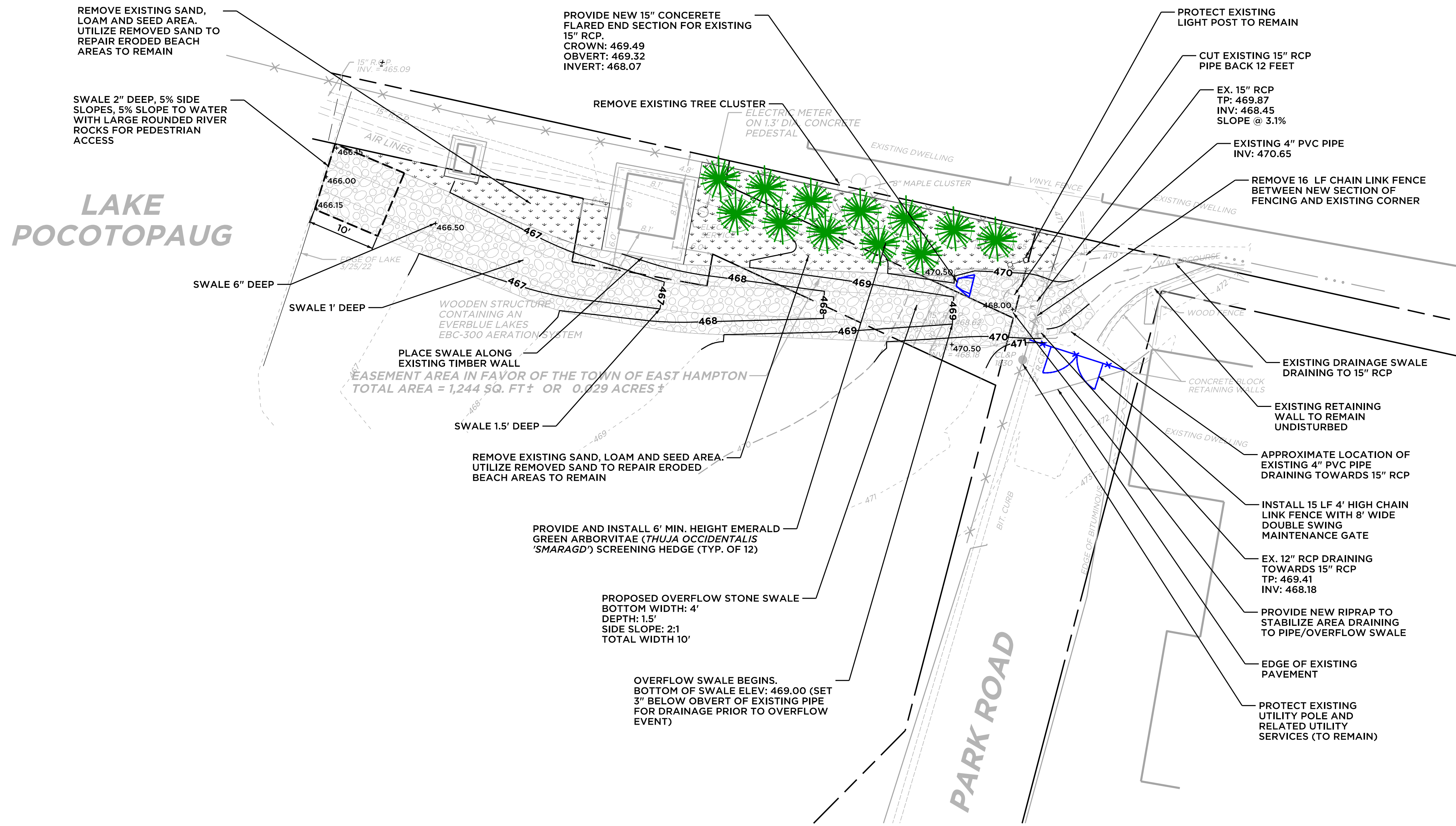
PREPARED FOR
TOWN OF EAST HAMPTON
BAY ROAD
EAST HAMPTON - CONNECTICUT



ENVIRONMENTAL LAND SOLUTIONS, LLC
Landscape Architecture and Environmental Planning

8 KNIGHT STREET, SUITE 203
NORWALK, CONNECTICUT 06851

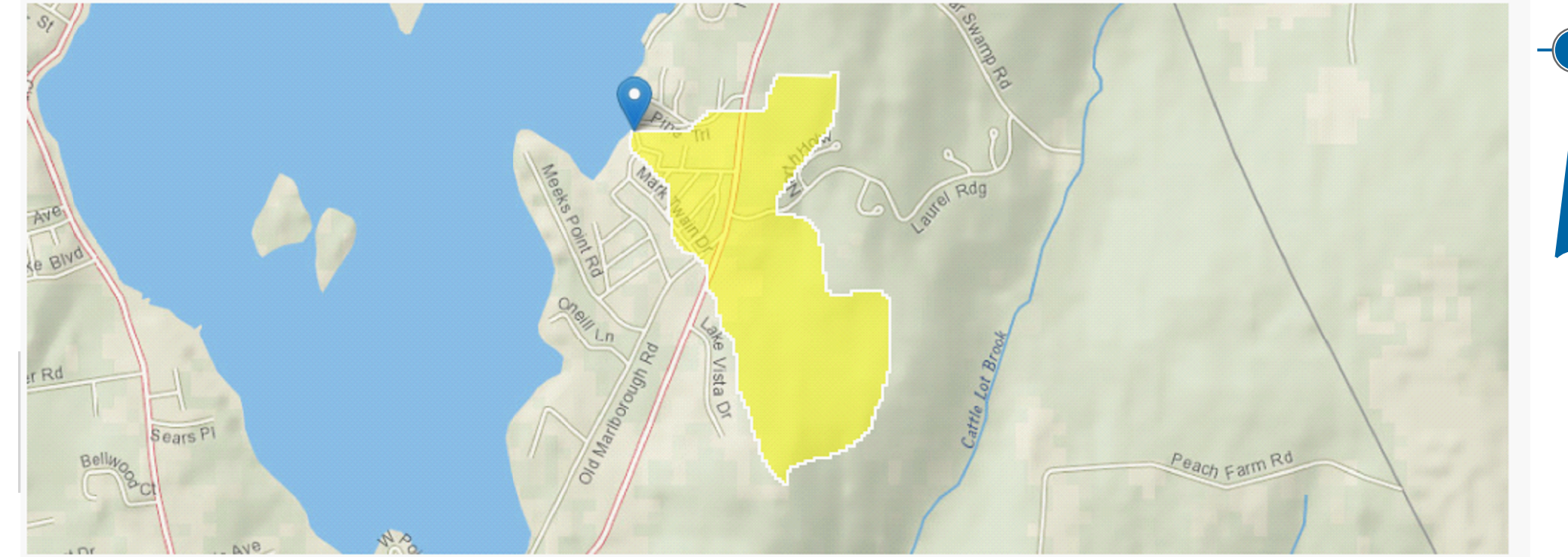
Tel: (203) 855-7879 Fax: (203) 855-7836
info@elsllc.net www.elsllc.net



Full Flow Velocity:

StreamStats Report

Region ID: CT
 Workspace ID: CT20220406185715318000
 Clicked Point (Latitude, Longitude): 41.59561, -72.49305
 Time: 2022-04-06 14:57:35 -0400



BASED ON A STREAMSTATS REPORT OF THE DRAINAGE AREA CONDUCTED ON 4/6/2022, A 100 YEAR STORM WILL CAUSE A FLOW VELOCITY OF 49 CFS (ROUND UP TO 50 CFS). THIS SWALE WAS DESIGNED FOR SUCH FLOW AS A WORST CASE SENERIO IF THE 15" PIPE IS CLOGGED.

Stable Rock Size

For swale slopes between 2% and 10%: $d_{50} = [q(S)^{1.5}/4.75(10)^{-3}]^{1/1.89}$

- d_{50} = Particle size for which 50 % of the sample is finer, inch
- S = Bed slope, ft/ft
- q = Unit discharge, $ft^3/s/ft$
(Total discharge ÷ Bottom width)

Bottom Width = 4ft
 $q = 12.5$ cfs/ft
 $S = 0.0333$ ft/ft
 $d_{50} = 4.33$ in.
 Tested with various other bottom widths, this one allowed for the smallest swale area
 50/4
 Based on existing slopes of area of proposed swale

Swale Velocities

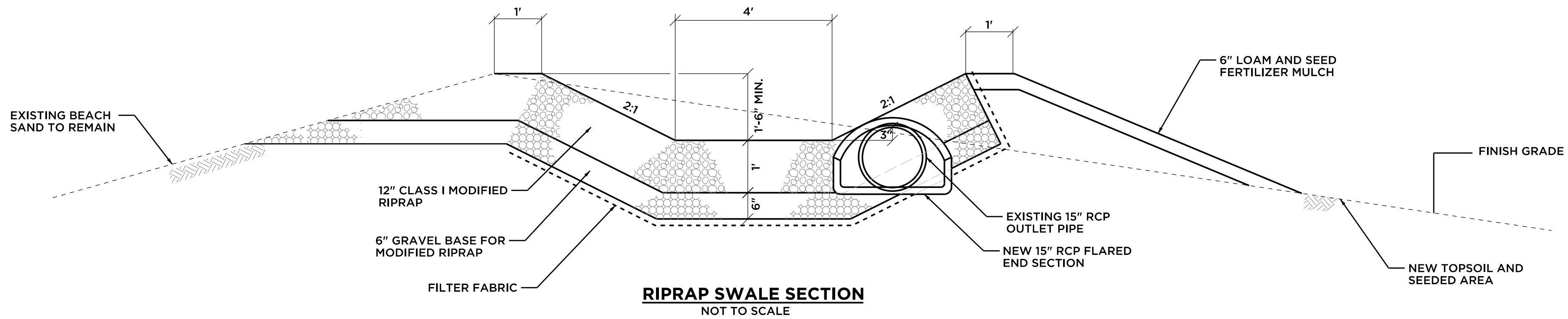
$n = 0.047(d_{50} \cdot S)^{0.147}$

$d_{50} = 4.33$ in.
 $S = 0.033$ ft/ft
 $n = 0.035$

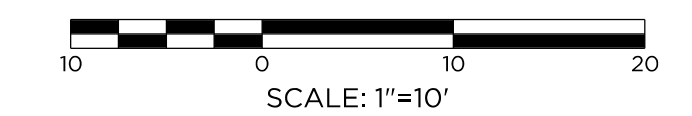
Depth:

$z = [n(q)/1.486(S)^{0.50}]^{3/5}$
 S = Bed slope, (ft/ft)
 z = Flow depth, (ft)
 q = Unit discharge, ($ft^3/s/ft$) (Total discharge ÷ Bottom width)
 n = Manning's coefficient of roughness (see formula under velocities)

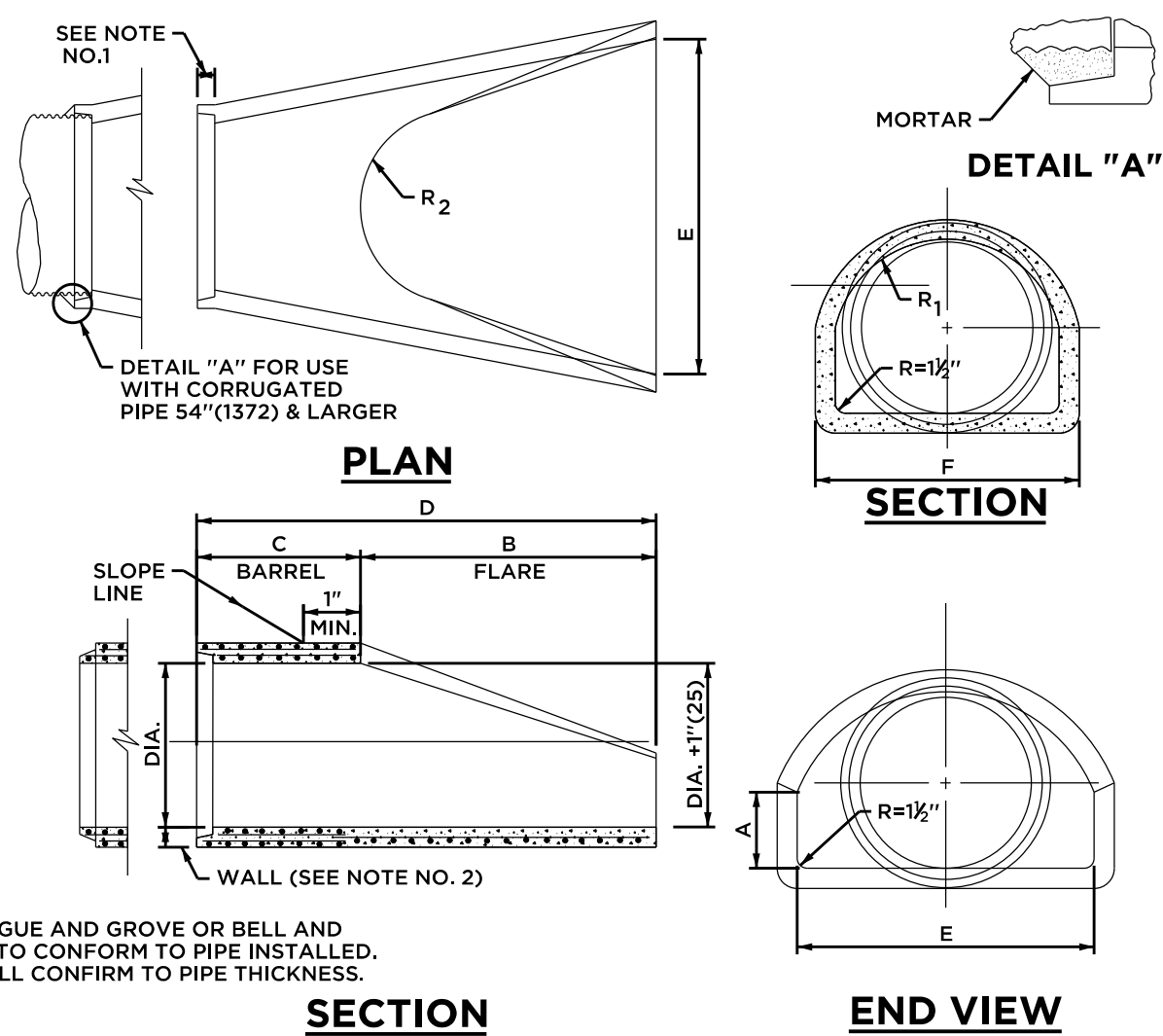
$S = 0.033$ ft/ft
 $q = 12.5$ cfs/ft
 $n = 0.035$
 $z = 1.34$ ft



NOTES:
 A) UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES.
 B) THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" 1-800-922-4455 (OR) #811 AND HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO CONSTRUCTION.



		41 Sequin Drive Glastonbury, CT 06033 Phone: (860) 633-5970 Fax: (860) 633-5971 www.bandlct.com	
		Civil Engineering • Environmental Consulting • Land Surveying • Construction Management	
PROJ. ENGINEER	NAN	DRAINAGE IMPROVEMENT PROJECT BROOKHAVEN PARK TOWN OF EAST HAMPTON SITE LAYOUT AND GRADING PLAN	
PROJ. MANAGER	KRG		
OFFICE REVIEW	KRG		
REVISIONS		PROJECT	DATE
		3129.017	5/2/22
SCALE: 1"=10'		SHEET NO.	1 OF 2



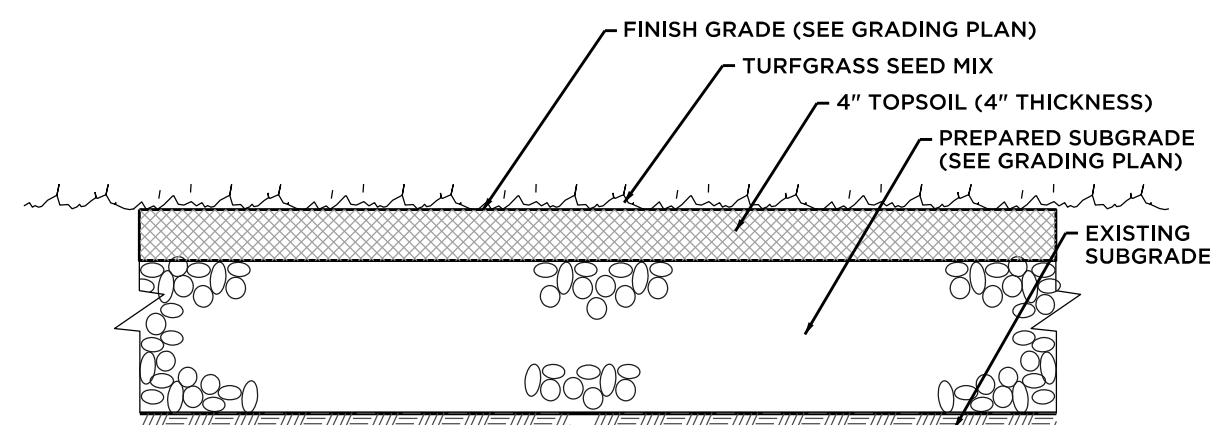
NOTES:

- 1- JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPRIGOT AS REQUIRED TO CONFORM TO PIPE INSTALLED.
- 2- WALL THICKNESS SHALL CONFIRM TO PIPE THICKNESS.

DIMENSIONS FOR REINFORCED CONCRETE CULVERT END									FLARE REINFORCEMENT ONE LAYER ONLY IN CENTER OF WALL	
DIA.	A	B	C	D	E	F	R ₁	R ₂	MIN. AREA OF LONGITUDINAL STEEL SQ. IN. PER FT.	MIN. AREA OF TRANSVERSE STEEL SQ. IN. PER FT.
12"(305)	4"(102)	2'-0"(610)	4'-0 1/2"(1241)	6'-0 3/4"(1851)	2'-0"(610)	1'-7 1/2"(506)	10 1/2"(260)	9"(229)	0.048	0.048
15"(381)	6"(152)	2'-3"(686)	3'-10"(1168)	6'-1"(1854)	2'-6"(762)	2'-0 1/2"(618)	1'-0 1/2"(318)	11"(279)	0.054	0.054
18"(457)	9"(229)	2'-3"(686)	3'-10"(1168)	6'-1"(1854)	3'-0"(914)	2'-5"(737)	1'-3/8"(394)	1'-0"(305)	0.060	0.060
21"(533)	9"(229)	2'-11"(889)	3'-2"(965)	6'-1"(1854)	3'-6"(1067)	2'-7 1/2"(800)	1'-4"(406)	1'-1"(330)	0.066	0.066
24"(610)	9 1/2"(241)	3'-7 1/2"(1105)	2'-6"(762)	6'-1 1/2"(1867)	4'-0"(1219)	2'-9 1/2"(843)	1'-4 1/2"(427)	1'-2"(356)	0.072	0.072
30"(762)	1'-0"(305)	4'-6"(1371)	1'-7 1/2"(502)	6'-1 1/2"(1873)	5'-0"(1524)	3'-1"(940)	1'-6 1/2"(470)	1'-3"(381)	0.084	0.084
36"(914)	1'-3"(381)	5'-3"(1600)	2'-10 1/2"(883)	6'-1 1/2"(1883)	6'-0"(1829)	3'-11 1/2"(1214)	2'-0 1/2"(618)	1'-8"(508)	0.096	0.096
42"(1067)	1'-9"(534)	5'-3"(1600)	2'-11"(889)	8'-2"(2489)	6'-6"(1981)	4'-5 1/2"(1368)	2'-3 1/2"(699)	1'-10"(559)	0.108	0.108
48"(1219)	2'-0"(610)	6'-0"(1829)	2'-2"(660)	8'-2"(2489)	7'-0"(2134)	4'-8 1/2"(1435)	2'-4 1/2"(724)	1'-10"(559)	0.120	0.120
54"(1372)	2'-3"(686)	5'-5"(1651)	2'-11"(889)	8'-4"(2540)	7'-6"(2286)	5'-5 1/2"(1664)	2'-9 1/2"(841)	2'-0"(610)	0.132	0.132
60"(1524)	2'-9"(838)	5'-0"(1524)	3'-3"(991)	8'-3"(2515)	8'-0"(2438)	6'-0 1/2"(1842)	3'-0 1/2"(932)	2'-0"(610)	0.144	0.144

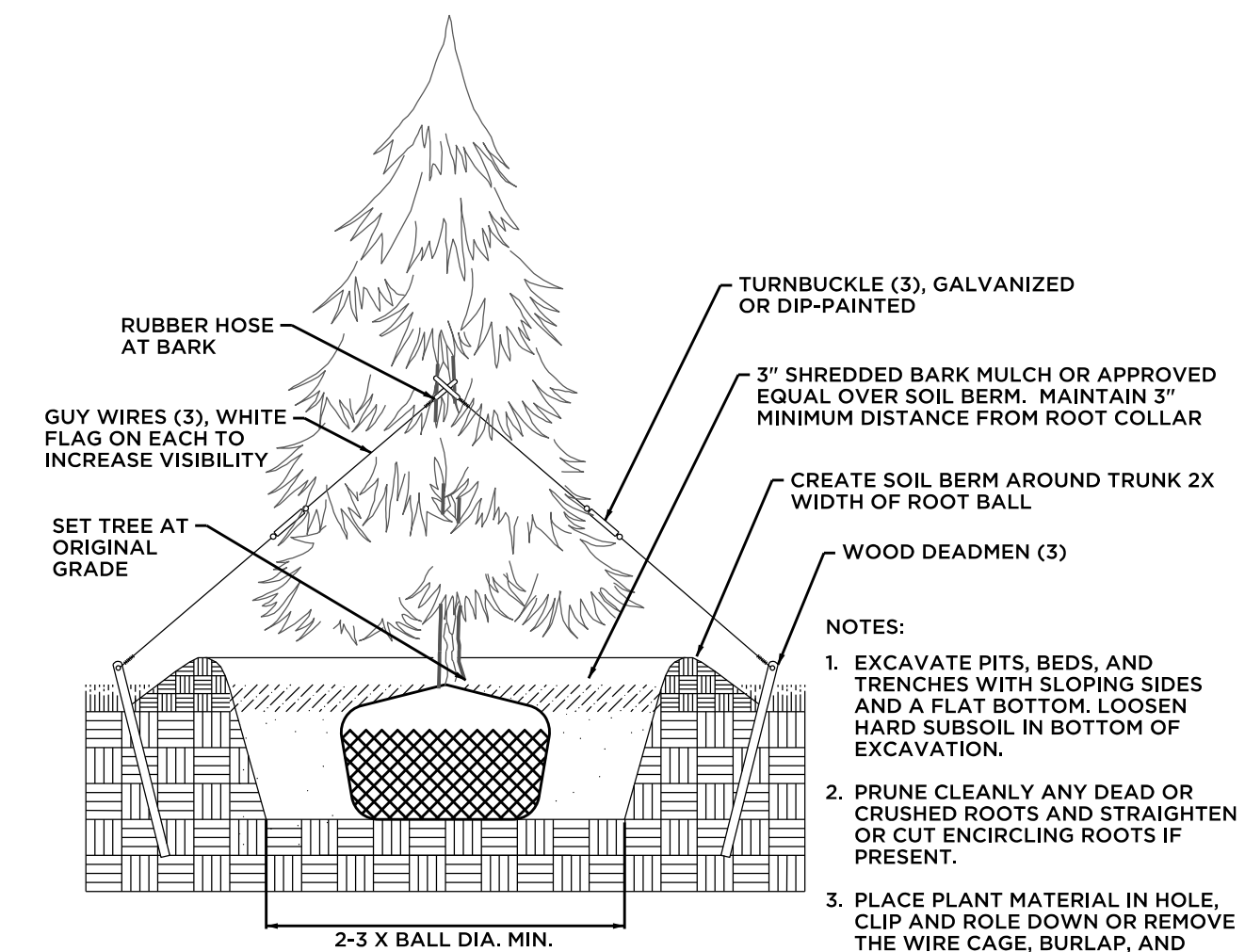
REINFORCED CONCRETE FLARED END DETAIL

NOT TO SCALE



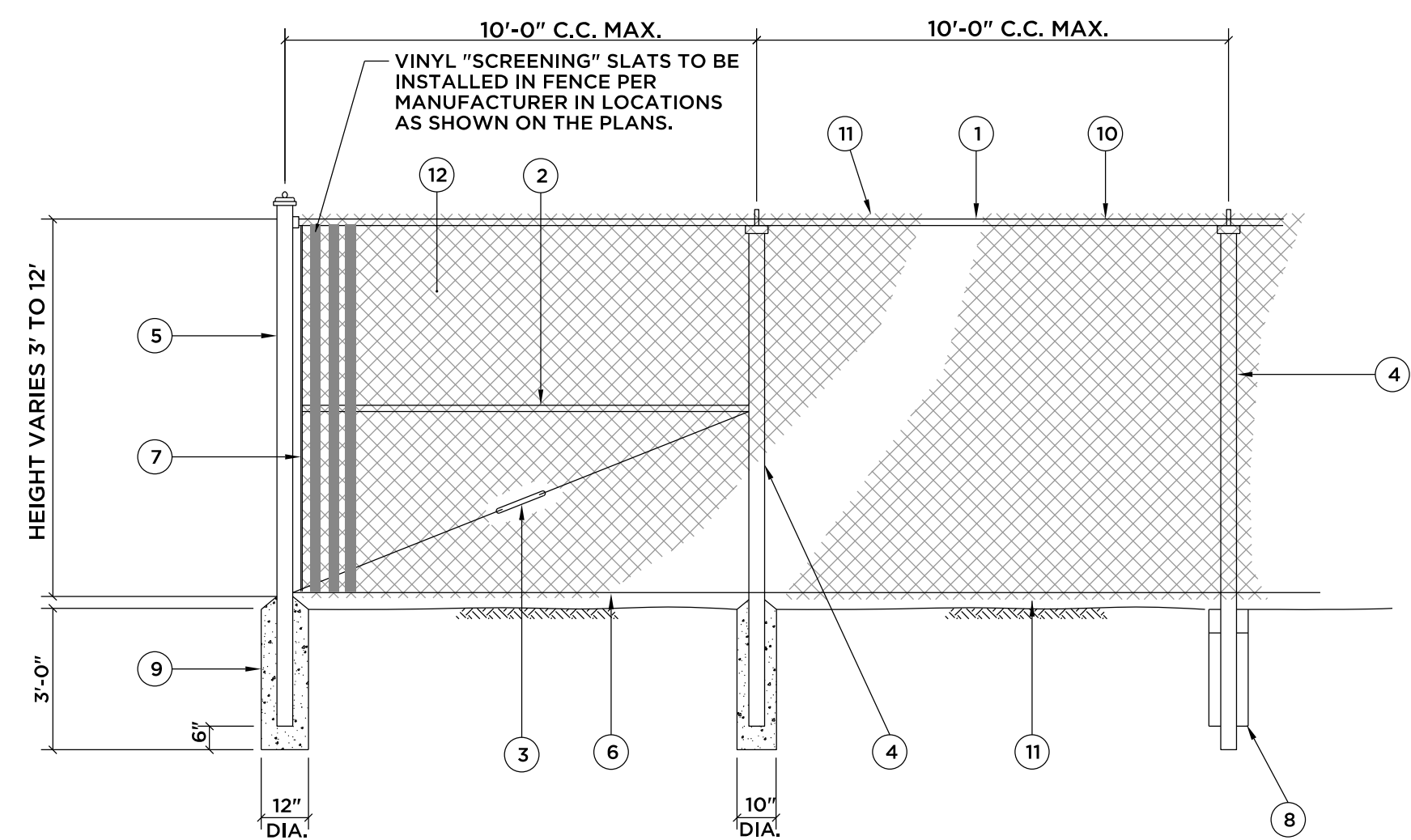
TURF ESTABLISHMENT

NOT TO SCALE



CONIFEROUS TREE PLANTING

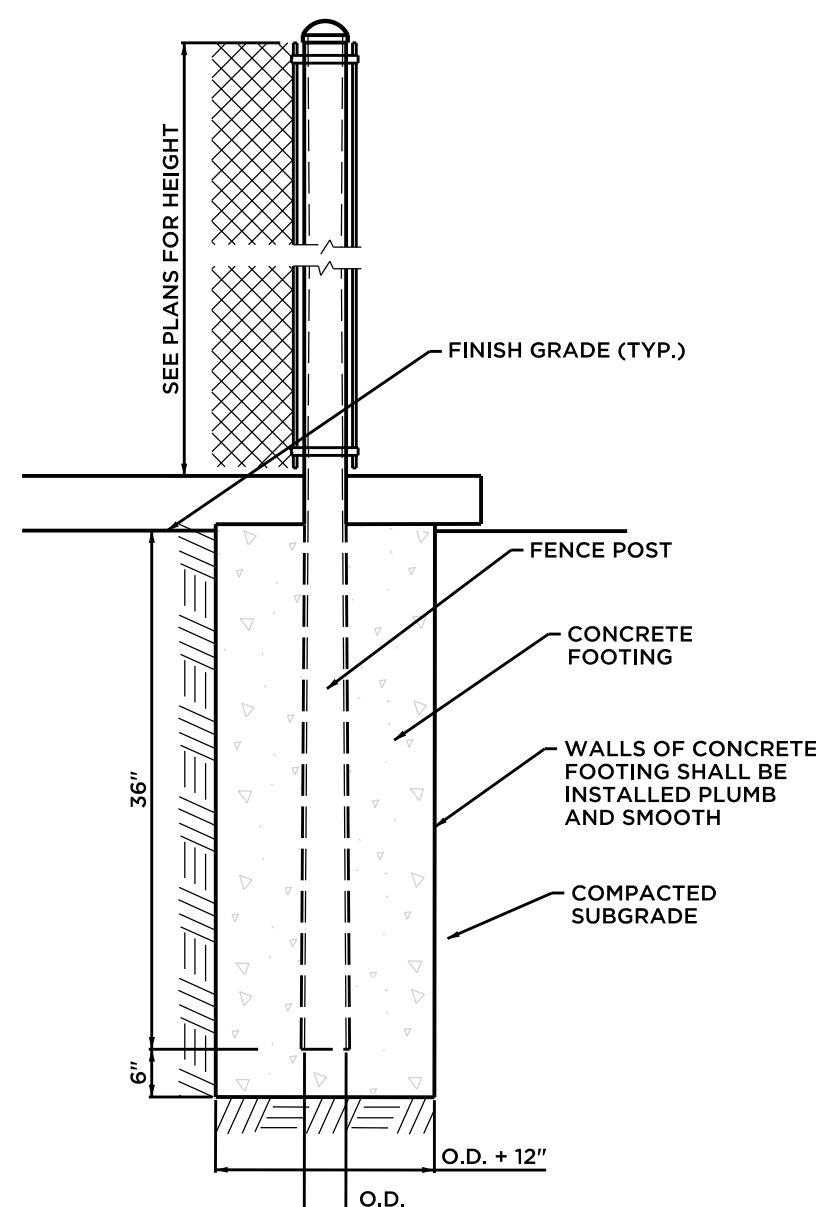
NOT TO SCALE



NOTES:

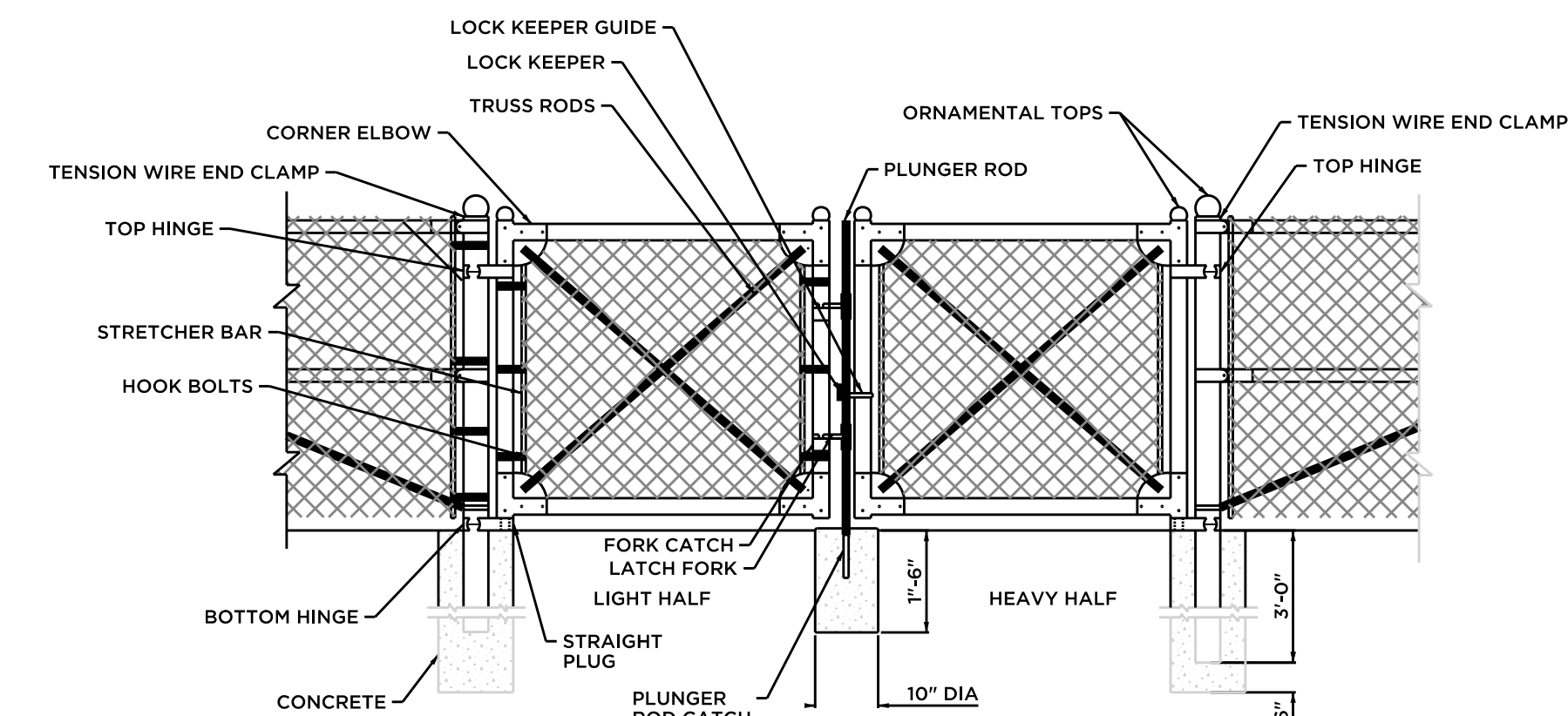
1. 1 5/8" O.D. TOP RAIL ATTACH TO THE C.L. FABRIC WITH 9 GAUGE WIRE CLIP EVERY 24"
2. 1 5/8" O.D. BRACE RAIL FENCES OVER 6 FEET FEET HIGH AND ALL FENCES WITHOUT TOP RAIL
3. 5/16" TRUSS ROD AND TURNBUCKLE
4. INTERMEDIATE POST
FENCE HEIGHT SQUARE POST ROUND POST
6 FEET AND LESS 1 7/8" 2"
OVER 6 FEET 2 1/4" 2 1/2"
ATTACH TO C.L. FABRIC WITH CLIPS EVERY 15"
5. END OR CORNER POST
FENCE HEIGHT SQUARE POST ROUND POST
6 FEET AND LESS 2" 2 1/2"
OVER 6 FEET 2 1/2" 3"
6. 6 GAUGE BOTTOM TENSION WIRE ATTACH TO C.L. FABRIC WITH HOG RING AT 24" C.C.
7. TENSION ROD ATTACHED TO END OR CORNER POST
8. CONCRETE FOOTING 36" DEEP WITH 12" DIA. AT END POST AND 10" DIA. AT INTERMEDIATE POST. HOLE CORE IN UNDISTURBED OR COMPACTED SOIL. (SEE FOOTING DESIGN NOTE)
9. 6 GAUGE TENSION WIRE WHEN TOP RAIL IS NOT USED.
10. FABRIC SELVAGE UNDER 6 FEET SHALL BE KNUCKLED TOP AND BOTTOM 6 FEET AND OVER SHALL BE KNUCKLED BOTTOM AND TWISTED ON THE TOP RECREATIONAL FENCING, REGARDLESS OF HEIGHT, SHALL BE KNUCKLED TOP AND BOTTOM
11. 11 GAUGE 2" WIRE MESH FABRIC (RESIDENTIAL)
9 GAUGE 1 3/4" WIRE MESH FABRIC (RESIDENTIAL)
9 GAUGE 2" WIRE MESH FABRIC (COMMERCIAL)
OTHER GAUGE AND MESH SIZES AVAILABLE
VINYL COATED MESH TO BE USED WHERE SHOWN ON PLANS

CHAIN LINK FENCE
NOT TO SCALE



CHAIN LINK FENCE & POST DETAIL

NOT TO SCALE



CHAINLINK SWINGING GATE

NOT TO SCALE

41 Sequin Drive
Glastonbury, CT 06033
Phone: (860) 633-8770
Fax: (860) 633-5971
www.bandct.com

Barton & Loguidice

Civil Engineering • Environmental Consulting • Land Surveying • Construction Management

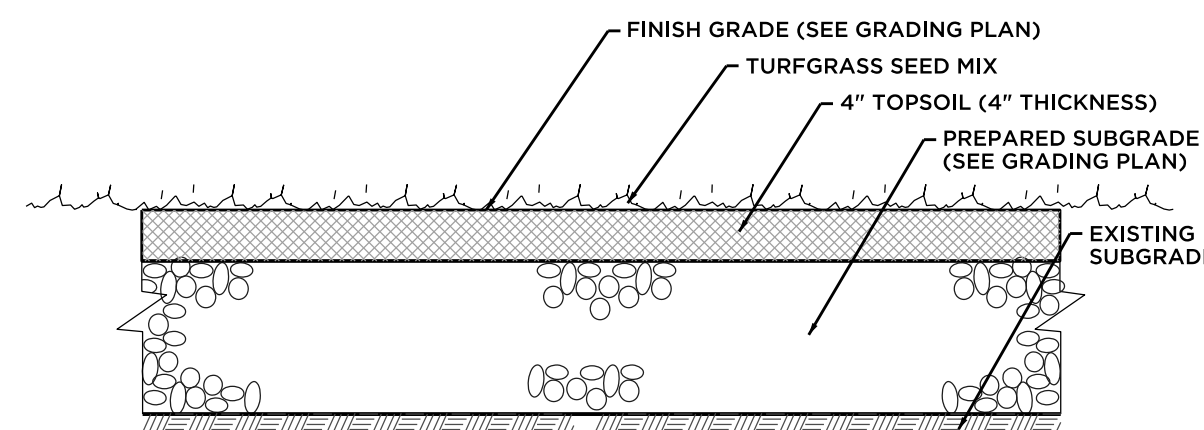
PROJ. ENGINEER	NAN
PROJ. MANAGER	KRG
OFFICE REVIEW	KRG
REVISIONS	
SCALE:	NTS

DRAINAGE IMPROVEMENT PROJECT	
BROOKHAVEN PARK TOWN OF EAST HAMPTON	
DETAILS	
PARK ROAD	EAST HAMPTON, CT
PROJECT	DATE
3129.017	5/2/22
SHEET NO. 2	OF 2

EROSION & SEDIMENT CONTROL NOTES:

- CONSTRUCTION WILL COMMENCE IN THE SUMMER OF 2022 AND WILL BE COMPLETED IN THE SUMMER OF 2022, WEATHER PERMITTING.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE TOWN PRIOR TO CONSTRUCTION.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", DATED 2002, AS AMENDED AND THE TOWN OF COVENTRY REGULATIONS.
- ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED OR REPLACED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD AS NECESSARY OR AS REQUIRED BY THE ENGINEER OR THE TOWN OF EAST HAMPTON.
- SEDIMENT REMOVED FROM ANY CONTROL STRUCTURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
- ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY OR REQUIRED BY THE ENGINEER OR THE TOWN OF EAST HAMPTON.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING ALL EROSION AND SEDIMENTATION CONTROL DEVICES AS SHOWN ON THESE PLANS OR AS ORDERED BY THE ENGINEER.
- ALL DISTURBED AREAS ARE TO BE RAKED, SEEDED AND FERTILIZED PER "TURF ESTABLISHMENT" SPECIFICATION IN CTDOT 816, AT THE COMPLETION OF PROJECT.
- AREAS TO BE LOAMED AND SEEDED ARE TO RECEIVE A MINIMUM 4" OF TOPSOIL OR ROLLED GRAVEL.
- THE FOLLOWING DATES FOR SEEDING SHALL BE USED:
SPRING: APRIL 15 TO JUNE 15
FALL: AUGUST 15 TO SEPTEMBER 15
- THE FOLLOWING GRASS SEED MIXTURES SHALL BE APPLIED AT A RATE NO LESS THAN 100LBS PER ACRE:

SPECIES	PROPORTION BY WEIGHT (POUNDS)
CREeping RED FESCUE (FESTUCA REBRA)	50
K-31 TALL FESCUE (FESTUCA ARUNDINACEA VAR. KENTUCKY 31)	20
PERENNIAL RYEGRASS (LOLIUM PERENNE)	25
ALSIKE CLOVER (TRIFOLIUM HYBRIDUM)	5



TURF ESTABLISHMENT
NOT TO SCALE

GENERAL CONSTRUCTION NOTES:

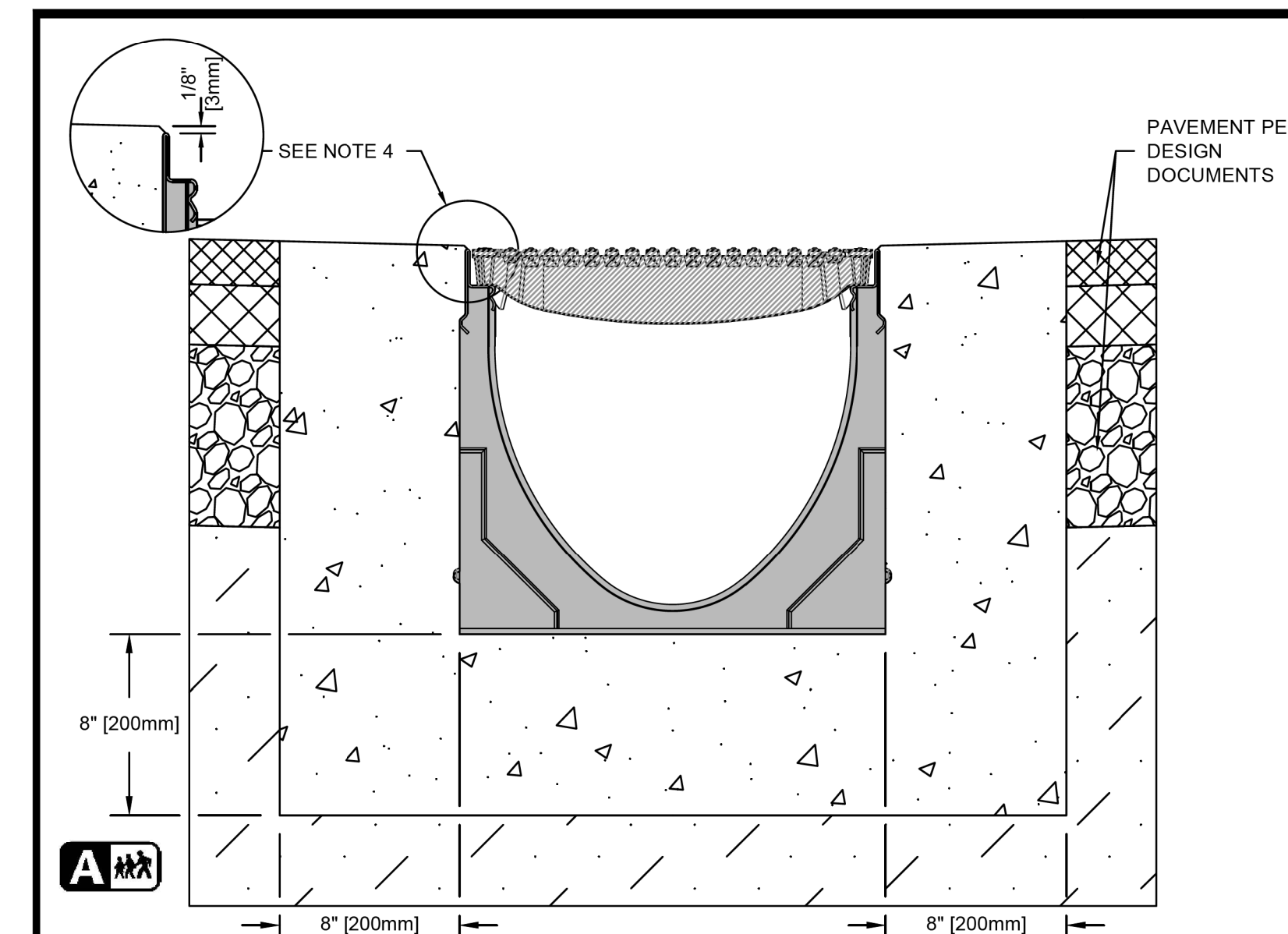
- THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS REQUIRED BY THE TOWN OF EAST HAMPTON PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF ALL LOCAL AGENCIES OF THE TOWN OF EAST HAMPTON.
- ALL WORK TO BE COMPLETED WITHIN THE BEACH EXTENTS TO BE PERFORMED DURING A PERIOD OF DRY WEATHER AND LOW WATER CONDITIONS WITHIN LAKE POCONAUG.
- THE CONTRACTOR SHALL MONITOR SHORELINE CONDITIONS ADJACENT TO ACTIVE WORK AREAS FOR SOIL EROSION AND SEDIMENTATION AND CONTACT THE TOWN OF EAST HAMPTON IF AREAS OF CONCERN ARE NOTICED.
- WHERE ADDITIONAL BEACH SAND IS REQUIRED THE CONTRACTOR SHALL FURNISH DRY PROCESSED OR UNPROCESSED BANK RUN SAND OR BEACH SAND FREE OF ROOTS, ORGANIC MATTER, TRASH OR OTHER DEBRIS. THE SAND SHALL NOT HAVE MORE THAN 10% MICA OR OTHER FLAKES AND SHALL BE FREE OF FRIABLE PARTICLES. THE FURNISHED MATERIAL SHALL SATISFY THE FOLLOWING:

SIEVE SIZE	PERCENT PASSING
3/4"	100
4"	100-80
10"	80-50
40"	50-20
100"	20-0
200"	2-0

- PRIOR TO DELIVERY OF ADDITIONAL SAND, THE CONTRACTOR SHALL SUBMIT A LABORATORY CERTIFICATION THAT THE MATERIALS SATISFY THE MINIMUM STATED REQUIREMENTS STATED HEREIN. THE CONTRACTOR SHALL DELIVER A REPRESENTATIVE SAMPLE TO THE JOB SITE, IF REQUESTED.

SEQUENCE OF CONSTRUCTION:

- COORDINATE AND COMPLETE A PRE-CONSTRUCTION MEETING WITH TOWN OF EAST HAMPTON. RESPONSIBLE PARTIES SHALL BE IDENTIFIED AND EMERGENCY PHONE NUMBERS PROVIDED.
- INSTALL EROSION CONTROL MEASURES AT LOCATIONS INDICATED ON PLANS AND REMOVE AND STOCKPILE ALL MATERIALS TO BE REUSED SUCH AS SPLIT RAIL FENCING, PICNIC TABLES & ETC.
- THE CONTRACTOR SHALL ACCESS THE SITE FROM THE BOAT LAUNCH SIDE OF THE CONCESSION STAND, AS SHOWN ON THE PLANS.
- START REMOVING THE EXISTING SAND FROM THE NEW SWALE AREA AND AREAS TO BE LOAMED AND SEEDED AS DEFINED ON THE PLANS AND STOCKPILE THE MATERIAL TO BE REUSED WITHIN THE MATERIAL STOCKPILE LOCATIONS DEPICTED ON THE PLANS.
- UPON COMPLETION OF SAND REMOVAL THE CONTRACTOR SHALL PREPARE THE SUBGRADE.
- UPON COMPLETION OF SUBGRADE PREPARATION THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE TOWN OF EAST HAMPTON TO DISPERSE THE STOCKPILED SAND ONTO ANY AREA OF THE BEACH THAT HAS BEEN ERODED AND MAY NEED RESTORATION.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF EAST HAMPTON PRIOR TO THE START OF RIPRAP INSTALLATION FOR THE NEW SWALE WHICH SHALL BE PERFORMED DURING DRY WEATHER CONDITIONS AND DURING A PERIOD OF LOW WATER CONDITIONS.
- LOAM & SEED AREAS AS DEPICTED ON THE PLANS. TAKE CARE TO MAINTAIN THE LIMITS OF THE EXISTING PLAYScape DURING THE CONSTRUCTION ACTIVITIES WITHIN THIS AREA.
- BASED UPON THE CONTRACT AGREEMENT, THE CONTRACTOR AND TOWN STAFF SHALL AGREE ON A SCHEDULE TO INSTALL DRAINAGE IMPROVEMENTS DEPICTED BASED UPON CONSTRUCTION SEQUENCE AND WEATHER CONDITIONS.
- RESTORE ALL CONSTRUCTION RELATED DISTURBANCES TO THE SITE INCLUDING BUT NOT LIMITED TO RESTORING PLAYScape MULCH, TOPSOIL AND SEEDING LAWN AREAS, RESTORATION OF RAIN GARDEN SURFACE TREATMENTS & FENCING AND ALL OTHER ITEMS STOCKPILED DURING CONSTRUCTION.
- REMOVE EROSION AND SEDIMENTATION CONTROLS WHEN PERMANENT VEGETATIVE COVER IS ESTABLISHED.



- NOTES:
- IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
 - MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
 - EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
 - THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" (3mm) ABOVE THE TOP OF THE CHANNEL EDGE.
 - CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
 - REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K300 KLASSIKDRAIN 'DRAINLOK' LOAD CLASS A

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K300 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:
COMPRESSIVE STRENGTH: 14,000 PSI
FLEXURAL STRENGTH: 4,000 PSI
TENSILE STRENGTH: 1,500 PSI
WATER ABSORPTION: 0.07%
FROST PROOF: YES
DILUTE ACID AND ALKALI RESISTANT: YES
B117 SALT SPRAY TEST COMPLIANT: YES

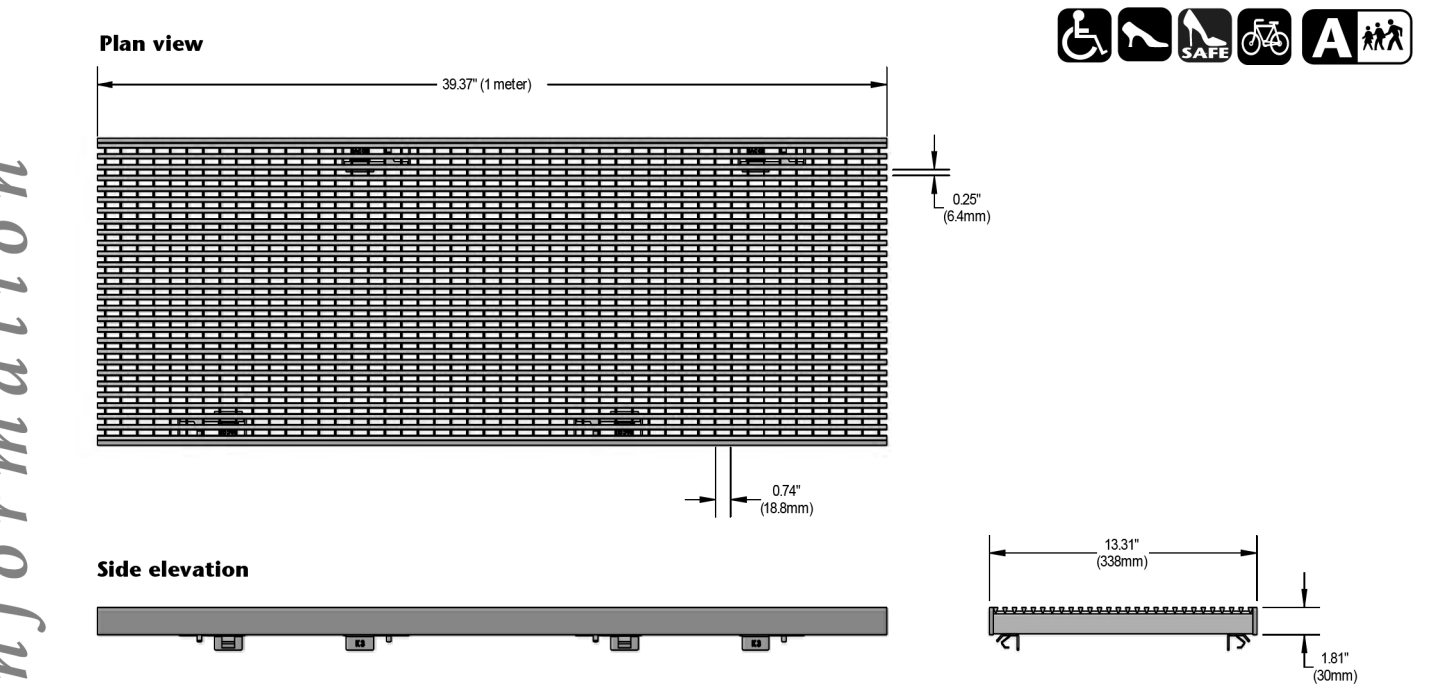
THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (390mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

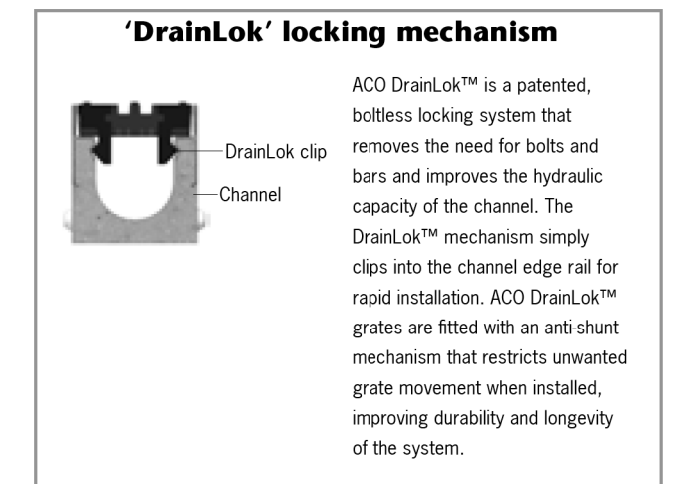
CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'DRAINLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

K3D-A-EAP	K300 - KLASSIKDRAIN - LOAD CLASS: A Exposed Asphalt Pavement	ACO Polymer Products, Inc.		
		825 W. Beechcraft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063
DATE: 08/18/16	INSTALLATION DRAWING - ACO DRAIN			
Arizona Tel: 888-490-9552	e-mail: sales@acousa.com	Ohio Tel: 800-543-4764	www.acousa.com	South Carolina Tel: 800-543-4764

ACO DRAIN Type 847D/848D Longitudinal stainless steel grate (ADA)



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
DrainLoK grate Type 847D Stainless steel longitudinal grate	142223	39.37 (1000)	13.31 (338)	28.6
Type 848D Stainless steel longitudinal grate	142224	19.69 (500)	13.31 (338)	14.5



ACO Polymer Products, Inc.
Northeast Sales Office: 9470 Pinecone Drive, Mentor, OH 44060
West Sales Office: 825 W. Beechcraft St., Casa Grande, AZ 85122
Southeast Sales Office: 4211 Pleasant Road, Fort Mill, SC 29708
Follow us on: Facebook, LinkedIn, Twitter, YouTube
Electronic Contact: info@acodrain.us, www.acodrain.us
 August 2017 August 2017
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 41 Sequin Drive, Glastonbury, CT 06033
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PROJ. ENGINEER: NAN
 PROJ. MANAGER: KRG
 OFFICE REVIEW: KRG

SEARS PARK BEACH RESTORATION
 PREPARED FOR THE TOWN OF EAST HAMPTON
NOTES AND DETAILS

88 NORTH MAIN STREET EAST HAMPTON, CT

PROJECT: 3129.008 DATE: 4/19/22 SHEET NO. 2 OF 2
 SCALE: 1"=20'