ABBREVIATIONS

RCP

REM

RET

ROW

R&R

R&S

SB

SB/DH

SGE

SMH

STA

STL

SW

TCB

TMH

TRANS

TSV

TYP

VCP

VERT

VGC

REMOD

REINFORCED CONCRETE PIPE

REMOVE

RETAIN

SEWER

STATION

SIDEWALK

TELEPHONE

STEEL

REMODEL

RAILROAD

RIGHT OF WAY

STONE BOUND

SEWER MANHOLE

SEWER SERVICE

TRAFFIC LIGHT

TRANSFORMER

TOP OF SLOPE

UTILITY POLE

WATER MAIN

WATER GATE

VITRIFIED CLAY PIPE

VERTICAL GRANITE CURB

TYPICAL

VERTICAL

REMOVE AND RESET

REMOVE AND STACK

STONE BOUND/DRILL HOLE

SLOPED GRANITE EDGING

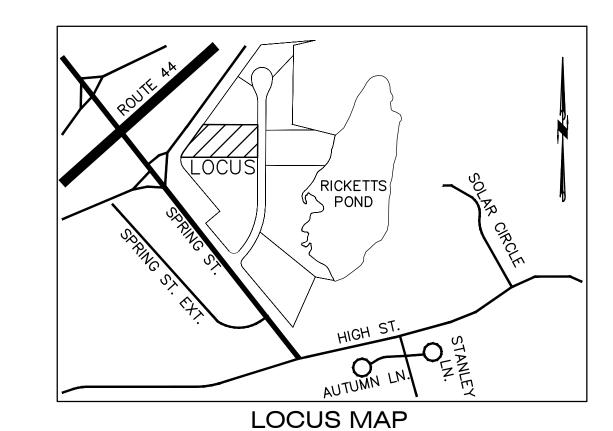
TRAFFIC CONTROL BOX

TELEPHONE MANHOLE

TAPPING SLEEVE, VALVE AND BOX

LEGEND

ABAN	ABANDONED	Existing	Proposed	Description
ACP	ASBESTOS CEMENT PIPE	400.50		
ACR ADJ	ACCESSIBLE CURB RAMP ADJUST	× 100.50 100.50	+ 100.50 100.50	SPOT ELEVATIONS
APPROX ASPH	APPROXIMATE ASPHALT	100.00	100.00	TOP & BOTTOM ELEVATIONS
ACCMP B BD	ASPHALT COATED CORRUGATED METAL PIPE BOLLARD BOUND	100.50 ×	100.50 x	SPOT ELEVATIONS WITH LEADER
BLDG BIT CONC	BUILDING	ΗĐΗ	म्कृ	HYDRANT
BM	BITUMINOUS CONCRETE BENCHMARK	\bowtie	H	WATER GATE VALVE
BS CAP	BOTTOM OF SLOPE CORRUGATED ALUMINUM PIPE		@	WELL
CB C&C	CATCH BASIN CUT AND CAPPED	©	©	GAS GATE
CB/DH	CONC. BOUND/DRILL HOLE	E	E	ELECTRIC HANDHOLE
CB/EPLP CCB	CB/ESCUTCHEON CAPE COD BERM	\	\	LIGHT POLE
CIP CIT	CAST IRON PIPE	<u></u>	9	UTILITY POLE
Ç CLF	CHANGE IN TYPE CENTERLINE		•	GUY POLE
CLF CO	CHAIN LINK FENCE CLEAN OUT	D	·	GUY ANCHOR
CONC COND	CONCRETE		•	
CMP	CONDUIT CORRUGATED METAL PIPE	(D)	(D)	DRAIN MANHOLE
CPP CS	CORRUGATED POLYETHYLENE PIPE COMBINED SEWER	S	<u>S</u>	SEWER MANHOLE
CSMH CULV	COMBINED SEWER MANHOLE CULVERT		(III)	CATCH BASIN
Δ	DELTA ANGLE			DOUBLE CATCH BASIN
D DCB	DRAIN DOUBLE CATCH BASIN	-	-	TEST PIT
DIP DMH	DUCTILE IRON PIPE DRAIN MANHOLE	•	•	BORING
Ε	ELECTRIC	0	0	SIGN SINGLE POST
ECC ELEV	EXTRUDED CONCRETE CURB ELEVATION			GRANITE OR CONCRETE BOUND
EMH E/T/C	ELECTRIC MANHOLE ELECTRIC, TELEPHONE, & CABLE TV		•	WETLAND FLAG
ÉW	END WALL	7.7777777		
EXIST FAB	EXISTING FIRE ALARM BOX			EXISTING BUILDING
FES FND.	FLARED END SECTION FOUND			
FND	FOUNDATION		1 l	PROPOSED BUILDING
F&C F&G	FRAME AND COVER FRAME AND GRATE			MAJOR CONTOUR
G GD	GAS GROUND			MINOR CONTOUR
GG GIP	GAS GATE GALVANIZED IRON PIPE	X	X	CHAINLINK FENCE
GP	GUARD POST	CTV	CTV	CABLE TV LINE
GS GR	GAS SERVICE GUARD RAIL -	E/T/C	E/T/C	ELECTRIC, TELEPHONE,
GRAN. HDPE	GRANITE HIGH-DENSITY POLYETHYLENE PIPE	UGE	———— UGE ————	CABLE TV DUCTBANK UNDERGROUND ELECTRIC
HH	HANDHOLE	OHE	OHE	OVERHEAD ELECTRIC
HOR HP	HORIZONTAL HIGH PRESSURE	GAS		
HWL HYD	HEADWALL HYDRANT		——— GAS ———	NATURAL GAS LINE
INV	INVERT	•	s	SANITARY SEWER MAIN
I.P. I.R.	IRON PIN IRON ROD	D	D	DRAIN PIPE
L LSA	LEAD LANDSCAPED AREA	Т ———	т ———	TELEPHONE LINE
LP	LIGHT POLE -	W	——— W———	WATER MAIN
MAX MC	MAXIMUM METAL COVER		FP	FIRE PROTECTION LINE
MCC MH	MONOLITHIC CONCRETE CURB MANHOLE			RETAINING WALL
MHB MIN	MASS. HIGHWAY BOUND		4444	TREELINE
MLP	MINIMUM METAL LIGHT POLE			HAYBALE & SILT FENCE
NIC NTS	NOT IN CONTRACT NOT TO SCALE	<u> </u>		LIMIT BORDERING VEGETATED
OHW	OVERHEAD WIRE			WETLAND RESOURCE(1)
PB PE	PULL BOX POLYETHYLENE PIPE			100' WETLAND BUFFER ZONE
P PROP	PROPERTY LINE PROPOSED			
PVC PVMT	POLYVINYL CHLORIDE PIPE PAVEMENT			
PWW	PAVED WATER WAY			
RCP	REINFORCED CONCRETE PIPE			



NOT TO SCALE

GENERAL NOTES CARVER: FORMERLY ASSESSOR'S MAP 32 PORTION OF LOT 1-2 LOCUS OWNER: RPBP, LLC 3 MARION DRIVE

CARVER, MASSACHUSETTS 02330

DEED BOOK REFERENCE: PLYMOUTH COUNTY REGISTRY OF DEEDS BOOK 50438, PAGE 270 BOOK 51637, PAGE 211

INNOVATION ZONING DISTRICT PER ZONING MAP DATED 2016.

PLAN BOOK 63, PAGE 848 2. LOCUS IS FORMERLY SHOWN ON THE TOWN OF CARVER'S ASSESSOR'S MAP 32 AS PORTION OF PARCEL 1-2, TOTAL AREA = $82,851\pm$ S.F. (1.90 AC)

3. LOCUS IS LOCATED WITHIN THE TOWN OF CARVER'S WATER RESOURCE PROTECTION OVERLAY DISTRICT.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK. 5. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION, SUCH AS SILT SACKS, AT ALL

CATCH BASINS TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER INFILTRATION

BASINS. INLET PROTECTION WILL ALLOW THE STORM DRAIN INLETS TO BE USED BEFORE FINAL STABILIZATION. 6. ALL EXISTING CONDITIONS INFORMATION, INCLUDING PERIMETER AND TOPOGRAPHIC

INFORMATION WAS PREPARED FROM AN ON THE GROUND FIELD SURVEY PERFORMED BY MCKENZIE ENGINEERING GROUP, INC. IN FEBRUARY OF 2018 AND MAY 2022. 7. THE PROPERTY SHOWN HEREON IS LOCATED IN THE TOWN OF CARVER SPRING STREET

8. UTILITY INFORMATION FROM ABOVE GROUND OBSERVED EVIDENCE IN CONJUNCTION WITH DIG SAFE MARKINGS AND RECORD PLANS. THE LAND SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LAND SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION AND CONSTRUCTION AS THE LAND SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. BEFORE CONSTRUCTION CALL DIG SAFE SYSTEMS, INC. AT 1-888-344-7233.

9. ANY CHANGE IN THE FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER TO ENSURE THAT ANY MODIFICATIONS TO THE ORIGINAL DESIGN ARE PROPER AND ADEQUATE TO SERVE THE PROJECT'S NEEDS, AND COMPLY WITH THE APPLICABLE STANDARDS AND REGULATION. 10. LOCALS FALLS WITHIN ZONE X AS SHOWN ON F.I.R.M. PANEL NO: 25023C0334K DATED

JULY 6, 2021. 11. ALL ELEVATIONS SHOWN REFER TO NAVD 1988 DATUM.

12. NO MUNICIPAL WATER SERVICE IS LOCATED ON SPRING STREET. THE PROPOSED BUILDINGS WILL USE PRIVATE WELLS THAT WILL BE APPROVED AND INSTALLED PER THE TOWN OF CARVER BOARD OF HEALTH REGULATIONS.

13. SEE PLANS ENTITLED "DEFINITIVE SUBDIVISION PLANS, RICKETTS POND BUSINESS PARK, SPRING STREET, CARVER, MASSACHUSETTS" PREPARED BY MEG DATED JANUARY 10, 2019 AND REVISED APRIL 2, 2019 FOR EXISTING AND PROPOSED SITE CONDITIONS FOR THE ADJACENT SUBDIVISION.

GENERAL 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 UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

2. THE CONTRACTOR SHALL COORDINATE ALL STREET WORK WITH THE CARVER DPW. 3. ALL WATER SERVICES SHALL BE INSTALLED WITH 5' OF COVER EXCEPT AS NOTED OR

DETAILED OTHERWISE. 4. ALL POTABLE WELL WATER SERVICE APPURTENANCES, MATERIALS, METHODS OF INSTALLATION SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS. 5. AFTER PRESSURE TESTING AND CHLORINATION IS COMPLETED, SAMPLES SHALL BE TAKEN

HOURS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE CARVER DEPARTMENT OF PUBLIC WORKS AT LEAST 24 HOURS PRIOR TO THE TESTING. 6. THE LOCATIONS OF PROPOSED ELECTRIC, TELEPHONE AND COMMUNICATION (E.T.C.) SERVICES ARE APPROXIMATE. THE PROJECT ELECTRICAL ENGINEER SHALL VERIFY THESE LOCATIONS PRIOR TO THE START OF CONSTRUCTION. COORDINATE ALL E.T.C. WORK WITH

FROM THE WATER SERVICE AND SHALL BE TESTED AT 200 PSI FOR A MINIMUM OF 2

THE APPROPRIATE UTILITY COMPANIES. 7. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH CARVER DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.

WAIVERS REQUESTED FROM THE TOWN OF CARVER ZONING BY-LAW <u>EFFECTIVE APRIL 2020</u>

1. SEC 3341 PARKING LOT DESIGN:

REQUIRED: "TO THE EXTENT FEASIBLE, REQUIRED PARKING AREAS SHALL NOT BE LOCATED FORWARD OF ANY BUILDING FRONT LINE ON THE LOT. NOTWITHSTANDING THE ABOVE, ANY DISTRICT EXCEPT FOR RA, V AND PTCD, THE PLANNING BOARD MAY GRANT PERMISSION IN THE COURSE OF SITE PLAN REVIEW TO LOCATE NOT MORE THAN EIGHT (8) PARKING SPACES IN FRONT OF THE PRINCIPAL BUILDING "

PROVIDED: 20 TOTAL PARKING SPACES ARE PROVIDED IN FRONT OF THE TWO PROPOSED PRINCIPAL BUILDINGS.

2. SEC 3345 PARKING LOT DESIGN:

REQUIRED: "FOR PARKING AREAS OF FIFTEEN (15) OR MORE SPACES, BICYCLE RACKS FACILITATING LOCKING SHALL BE PROVIDED TO ACCOMMODATE ONE BICYCLE PER FIVE (5) PARKING SPACES " PROVIDED: BICYCLE PARKING SPACES ARE NOT PROVIDED BY THIS SUBMISSION.

3. SEC 3130.G. SUBMITTAL REQUIREMENTS:

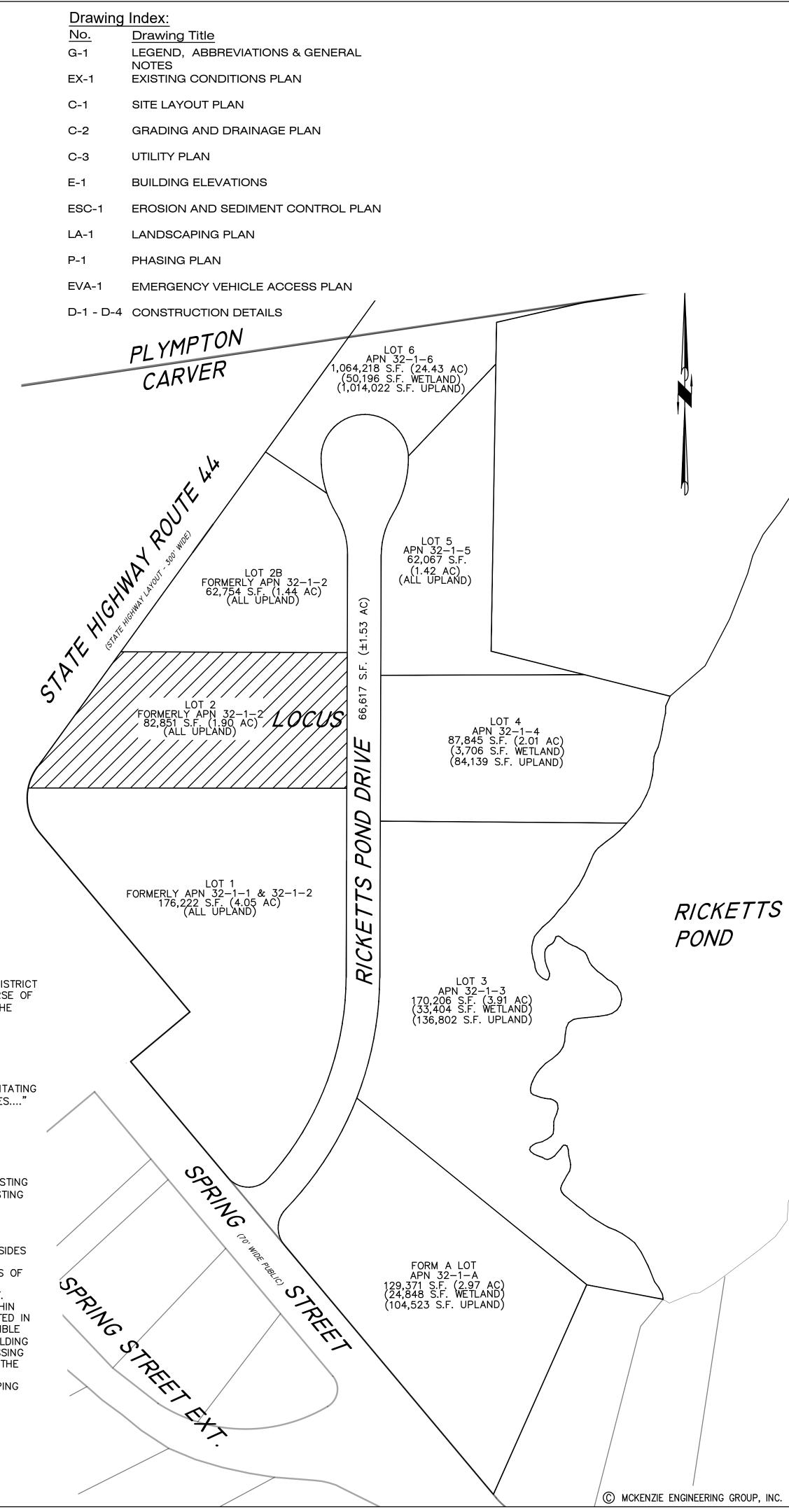
REQUIRED: "EXISTING TREES 10" CALIPER OR BETTER AND EXISTING TREE/SHRUB MASSES; PROPOSED PLANTING, LANDSCAPING AND SCREENING;"

PROVIDED: DUE TO THE SIZE OF THE PROPOSED DEVELOPMENT, SPECIFIC LOCATIONS OF EXISTING TREES 10" CALIPER OR GREATER ARE NOT INCLUDED. OUR SUBMISSION WILL SHOW THE EXISTING TREELINE AS SURVEYED BY MCKENZIE ENGINEERING GROUP, INC.

4. SEC 3242 PARKING LOT PERIMETER LANDSCAPING:

REQUIRED: BUFFER STRIP OF 20 FT. LOCATED ALONG THE PERIMETER OF AT LEAST THREE SIDES OF THE PARKING AREA.

PROVIDED: A LANDSCAPE BUFFER OF APPROXIMATELY 12 FT. IS PROVIDED ALONG THE SIDES OF EACH PARKING AREA FOR THE PROPOSED PRINCIPAL BUILDINGS. A LANDSCAPED BUFFER OF APPROXIMATELY 7 FT. IS PROVIDED ADJACENT TO EACH SIDE PROPERTY LINE, AND A 40 FT. LANDSCAPED BUFFER IS PROVIDED TO THE REAR PROPERTY LINE. THE SITE IS LOCATED WITHIN THE SPRING STREET INNOVATION ZONING DISTRICT, SPRING STREET RIGHT-OF-WAY IS LOCATED IN THE ROUTE 44 ZONING DISTRICT ADJACENT TO THE SUBDIVISION. THE SITE WILL NOT BE VISIBLE BY ANY RESIDENTIAL USES. THE 40' WIDE LOADING AREA BEHIND THE FRONT PRINCIPAL BUILDING HAS BEEN SIZED DUE TO THE REQUIRED MINIMUM TURNING RADIUS OF A BOX TRUCK ACCESSING THE LOADING DOCK AND LEAVING THE SITE. 24 FT. WIDE DRIVING AISLES ASSOCIATED WITH THE SITE ARE BASED ON THE MINIMUM REQUIRED WIDTH FOR TWO-WAY TRAFFIC. BASED ON THE TECHNICAL JUSTIFICATION ABOVE WE BELIEVE ADEQUATE PARKING LOT PERIMETER LANDSCAPING HAS BEEN PROVIDED.



MCKENZIE

ENGINEERING GROUP

150 Longwater Drive, Suite 101

Assinippi Office Park

Norwell, MA 02061

P: 781.792.3900

F: 781.792.0333

www.mckeng.com

SO

DESIGNED BY:

CHECKED BY:

SCALE:

APPROVED BY:

PROJECT NO.:

DWG. TITLE:

DWG. NO:

BCM

1"=100

221-190

FEBRUARY 28, 2022

U-

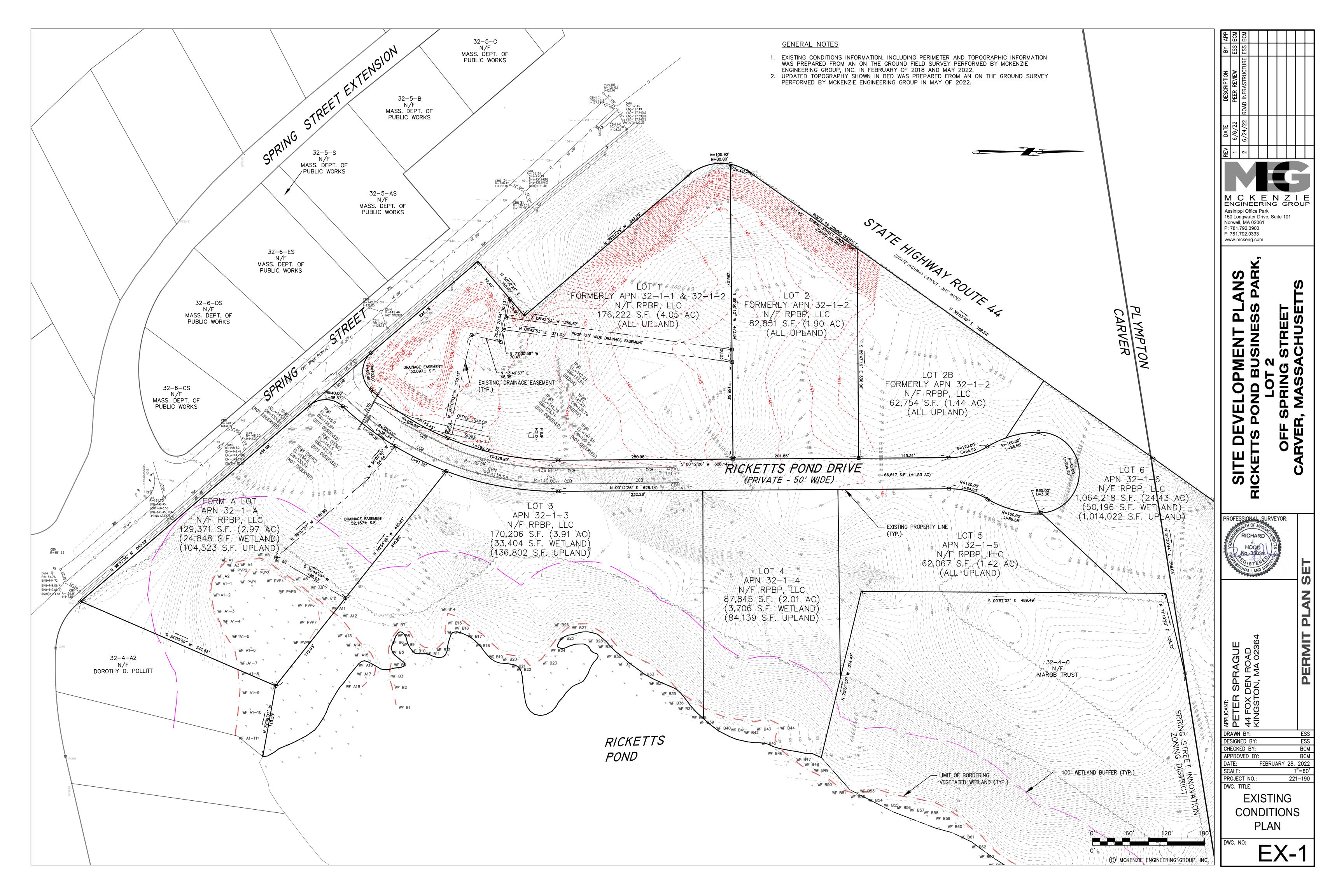
LEGEND,

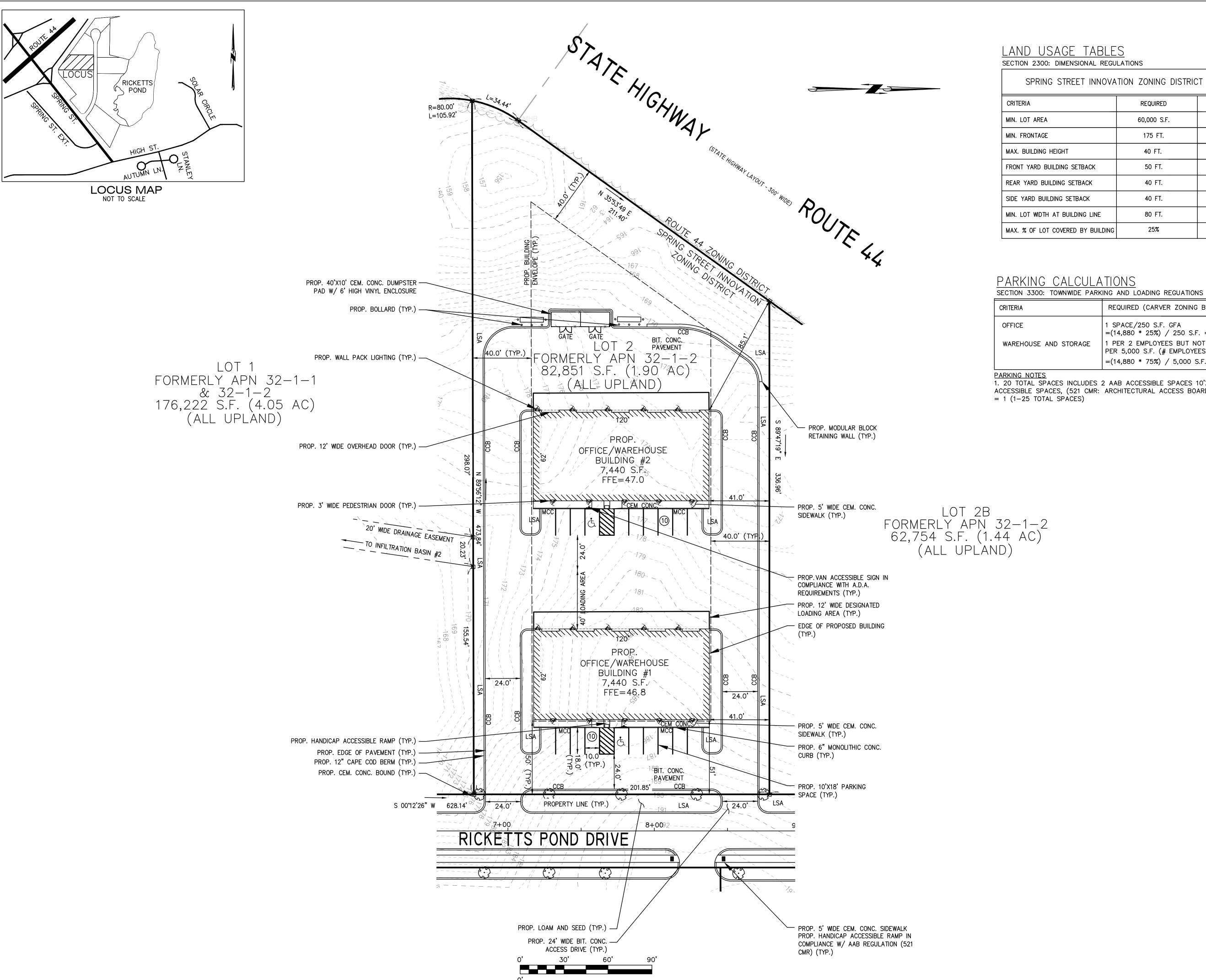
ABBREVIATIONS &

GENERAL NOTES

DRAWN BY:

PROFESSIONAL ENGINEER:

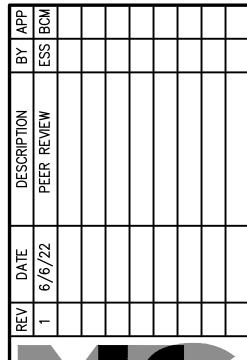




SPRING STREET INNOVATION ZONING DISTRICT (SSID)		
CRITERIA	REQUIRED	PROPOSED
MIN. LOT AREA	60,000 S.F.	82,851 S.F.
MIN. FRONTAGE	175 FT.	201.85 FT.
MAX. BUILDING HEIGHT	40 FT.	<40 FT.
FRONT YARD BUILDING SETBACK	50 FT.	51.0 FT.
REAR YARD BUILDING SETBACK	40 FT.	85.1 FT.
SIDE YARD BUILDING SETBACK	40 FT.	41.0 FT.
MIN. LOT WIDTH AT BUILDING LINE	80 FT.	201.8 FT.
MAX. % OF LOT COVERED BY BUILDING	25%	18.0%

CRITERIA	REQUIRED (CARVER ZONING BYLAW)	REQUIRED	PROPOSED
OFFICE WAREHOUSE AND STORAGE	1 SPACE/250 S.F. GFA =(14,880 * 25%) / 250 S.F. = 14.9 1 PER 2 EMPLOYEES BUT NOT LESS THAN 1 PER 5,000 S.F. (# EMPLOYEES IS UNKNOWN) =(14,880 * 75%) / 5,000 S.F. = 2.2		20 SPACES

1. 20 TOTAL SPACES INCLUDES 2 AAB ACCESSIBLE SPACES 10'X18' WITH 2-8'X18' (VAN ACCESSIBLE SPACES, (521 CMR: ARCHITECTURAL ACCESS BOARD) ACCESSIBLE SPACES REQUIRED



M C K E N Z I E ENGINEERING GROUP

Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

PMENT BUSINE OT 2 DE TS SIT

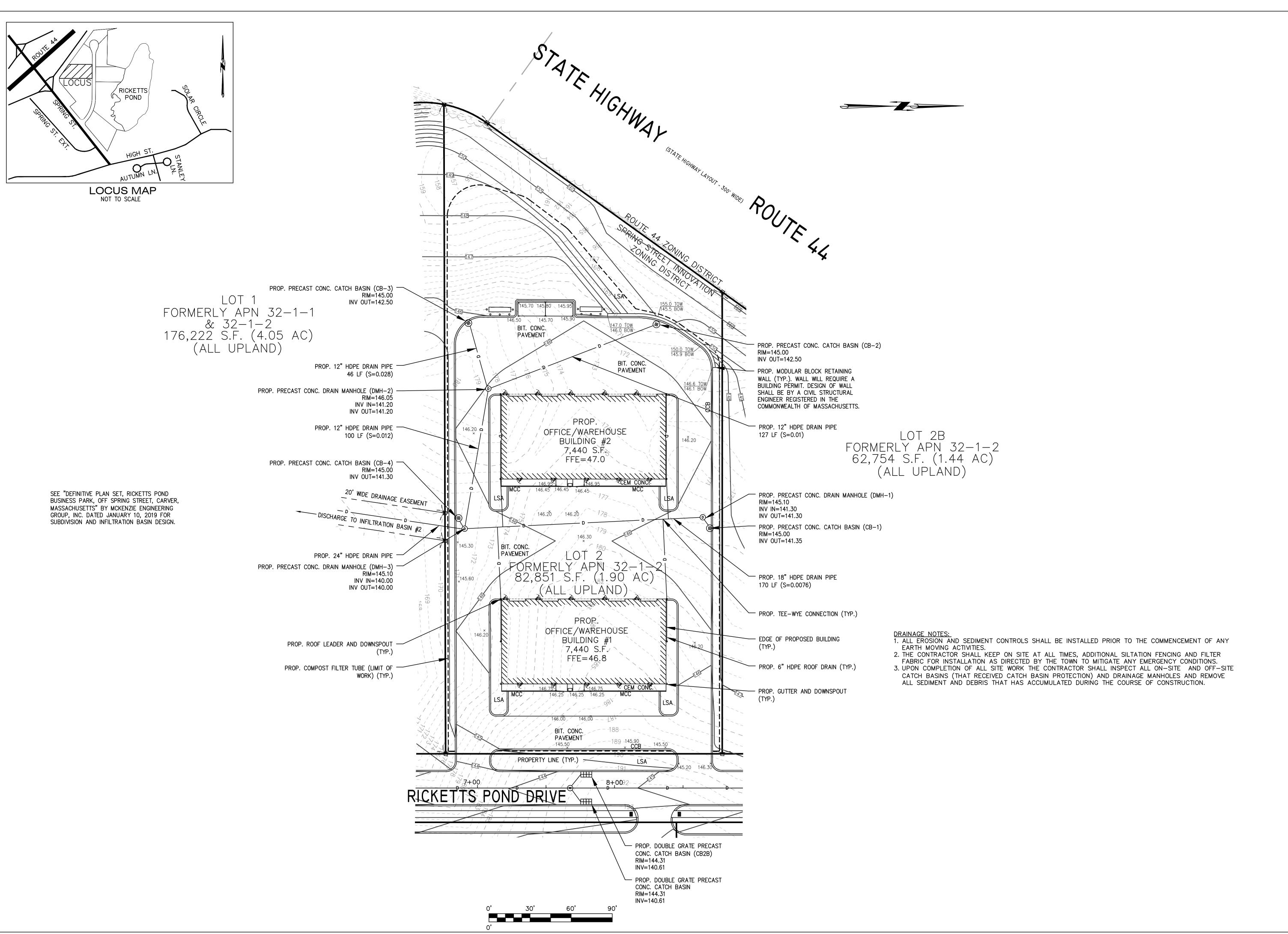
PROFESSIONAL ENGINEER:

PETER SPRAGUE
44 FOX DEN ROAD
KINGSTON, MA 02364

DRAWN BY: DESIGNED BY: CHECKED BY: APPROVED BY: FEBRUARY 28, 2022 SCALE: PROJECT NO.: 221-190

DWG. TITLE: SITE LAYOUT

PLAN



Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

DE TS in P S S S

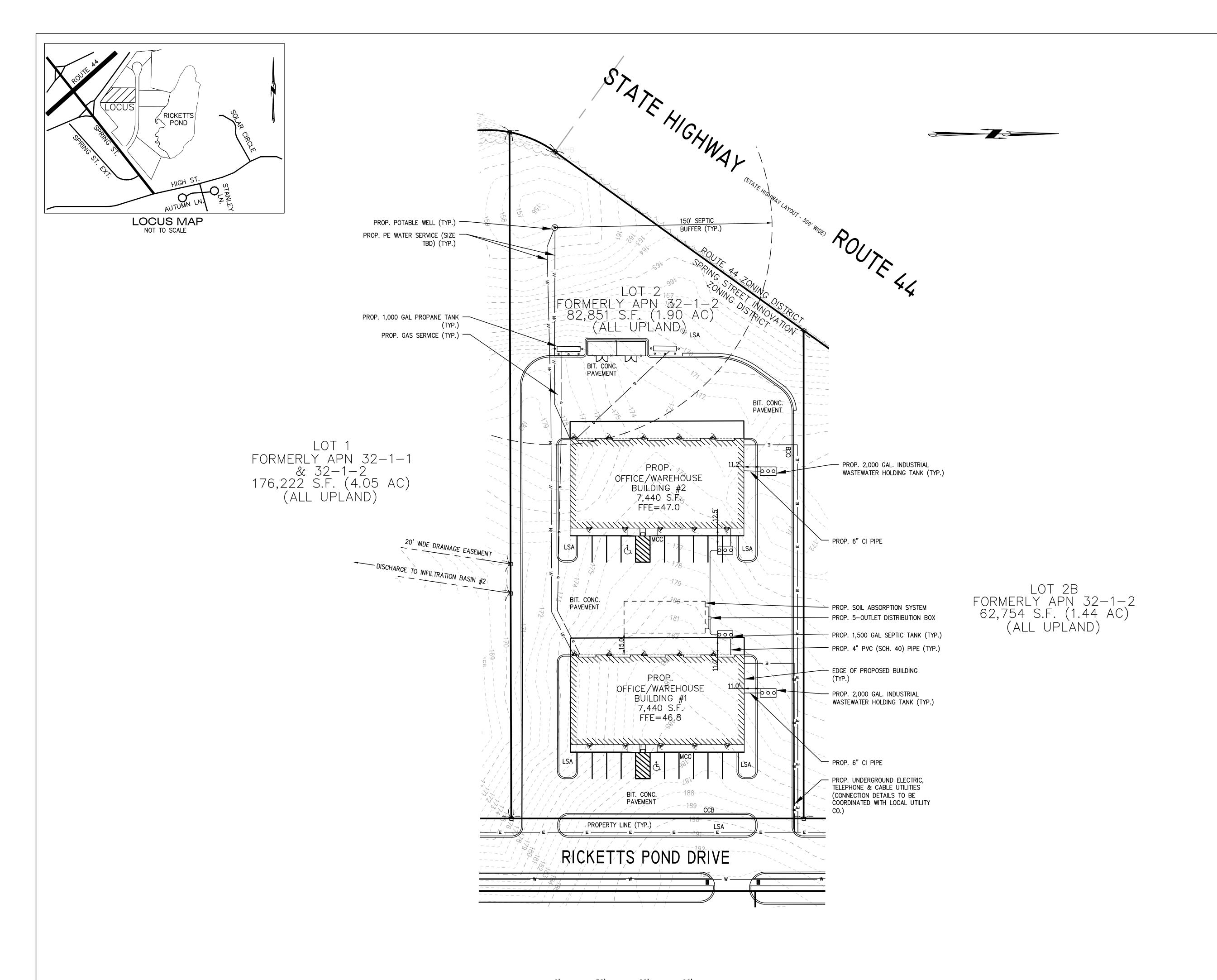
PROFESSIONAL ENGINEER:

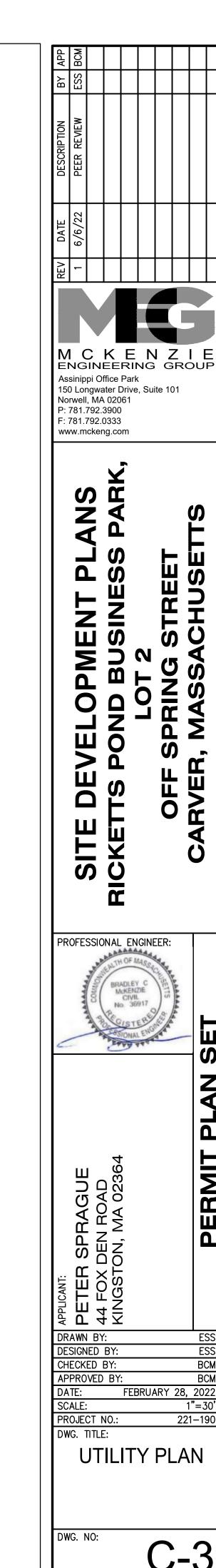
PETER SPRAGUE 44 FOX DEN ROAD KINGSTON, MA 0236

DRAWN BY: DESIGNED BY: CHECKED BY: BCM APPROVED BY: FEBRUARY 28, 2022 1"=30' PROJECT NO.: 221-190

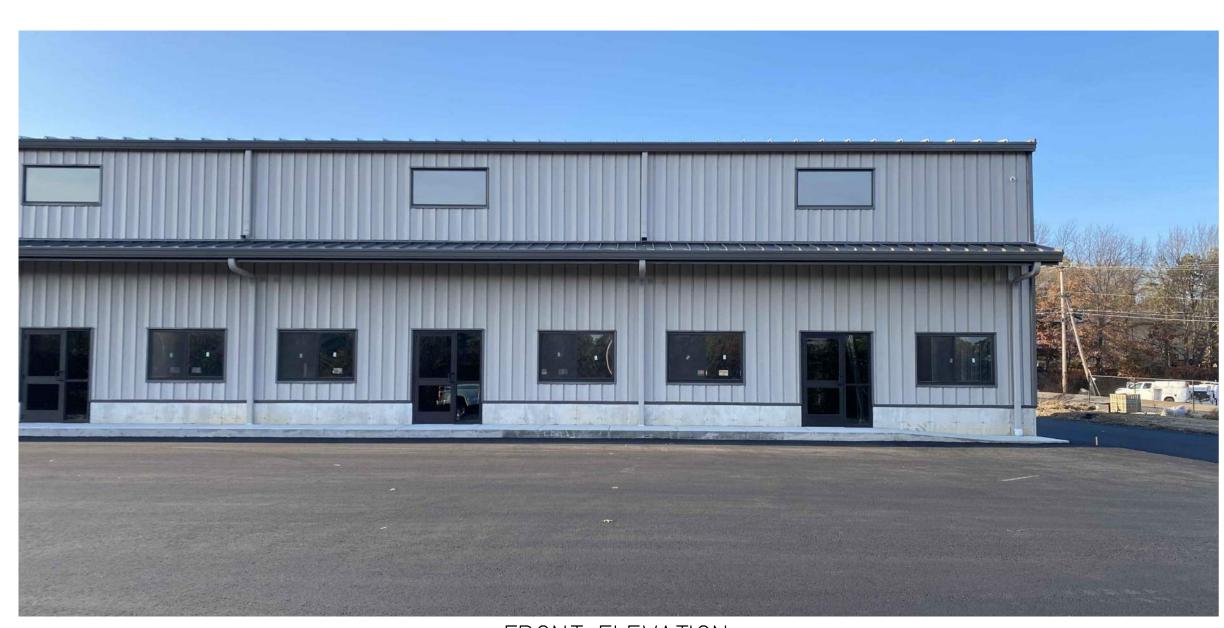
DWG. TITLE: **GRADING AND**

DRAINAGE PLAN





M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 2\217-182_MAIN LOT 2 R1.DWG

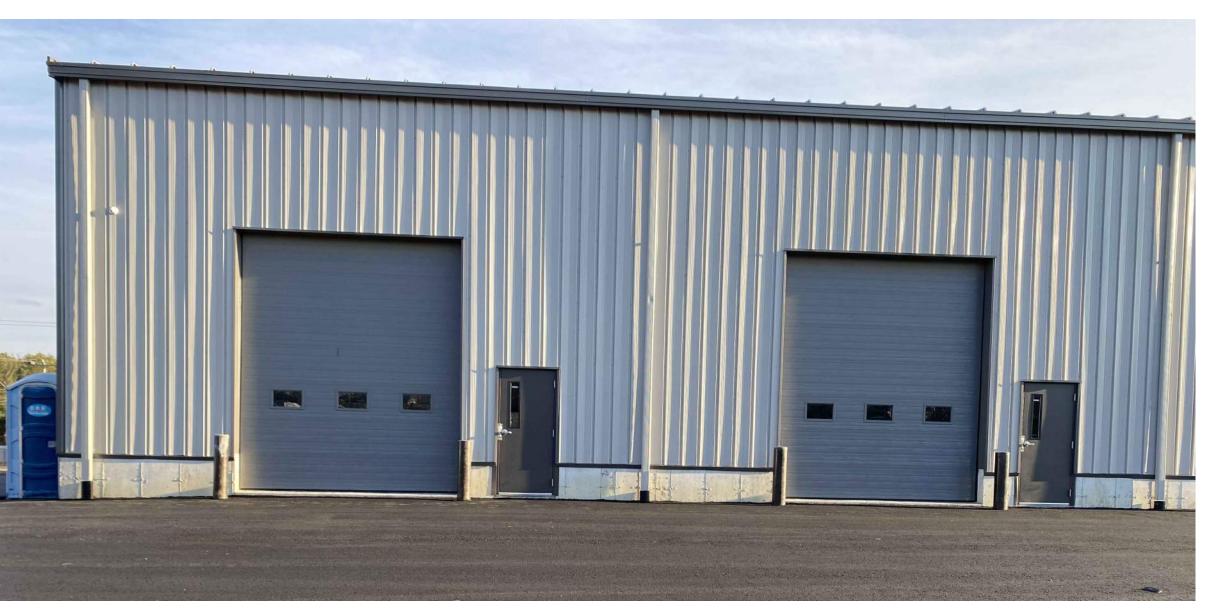


FRONT ELEVATION

NOT TO SCALE



FRONT ELEVATION
NOT TO SCALE



REAR ELEVATION

NOT TO SCALE

M C K E N Z I E ENGINEERING GROUP Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

S

PROFESSIONAL ENGINEER:

DWG. TITLE:

BY APPLICANT:

BY APPLICANT:

BY BY BY BY BY BY BY:

CHECKED BY:

CHECKED BY:

AND BY BY:

CHECKED BY:

AND BY BY:

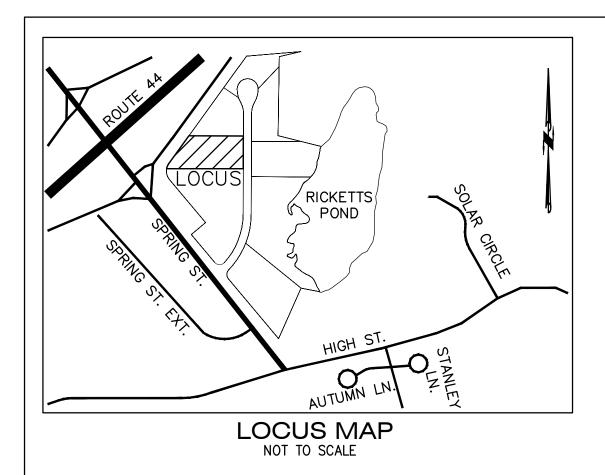
CHECKED BY:

AND BY:

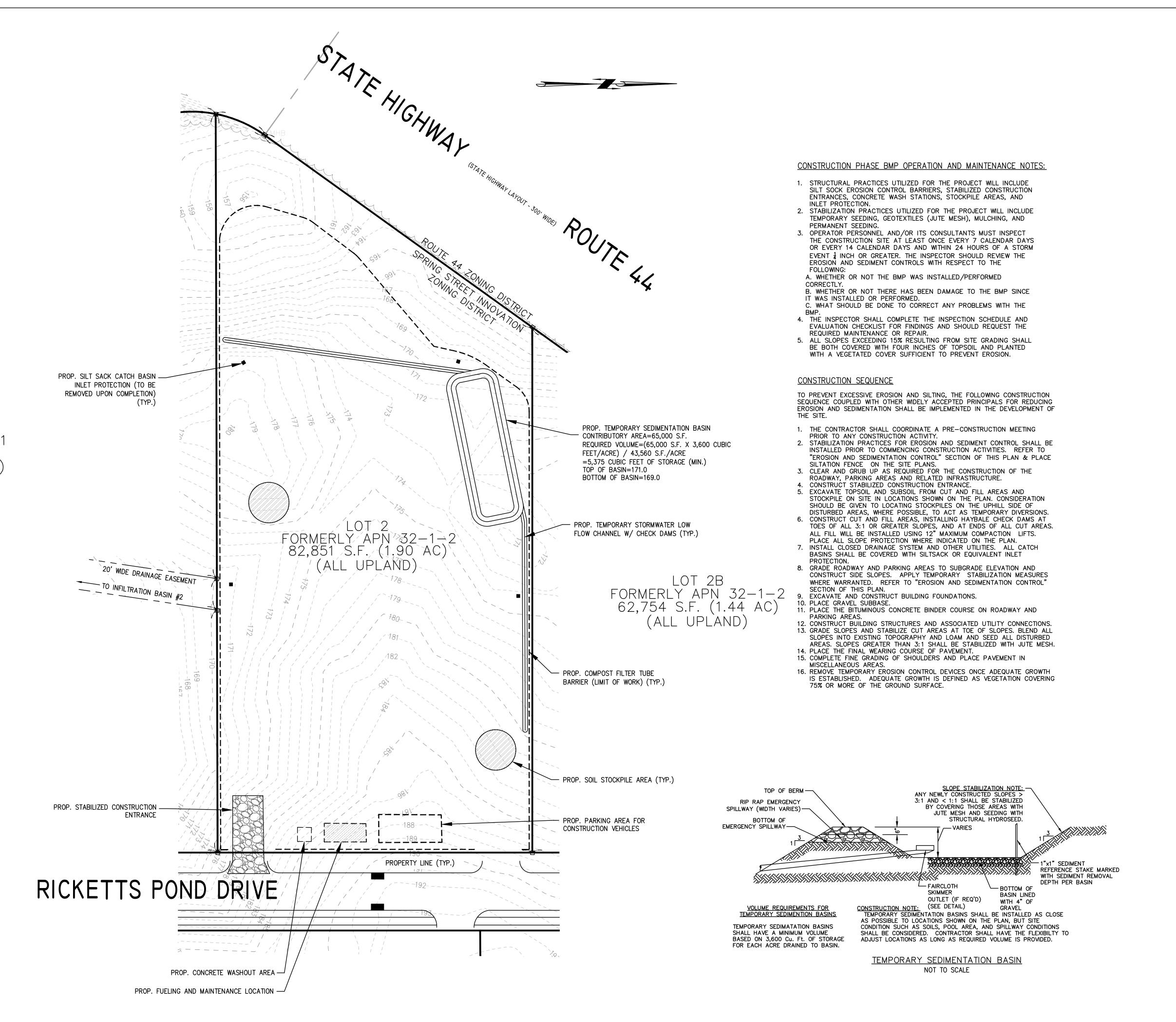
CHECKED BY

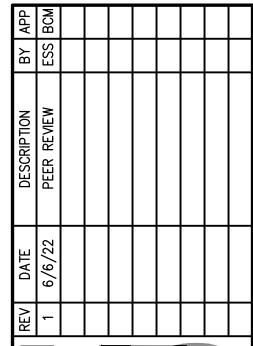
BY: ESS
BY: BCM
D BY: BCM
FEBRUARY 28, 2022
NOT TO SCALE
NO: 221–190

BUILDING ELEVATIONS



LOT 1 FORMERLY APN 32-1-1 & 32-1-2 176,222 S.F. (4.05 AC) (ALL UPLAND)





M C K E N Z I E ENGINEERING GROUP

Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333

www.mckeng.com

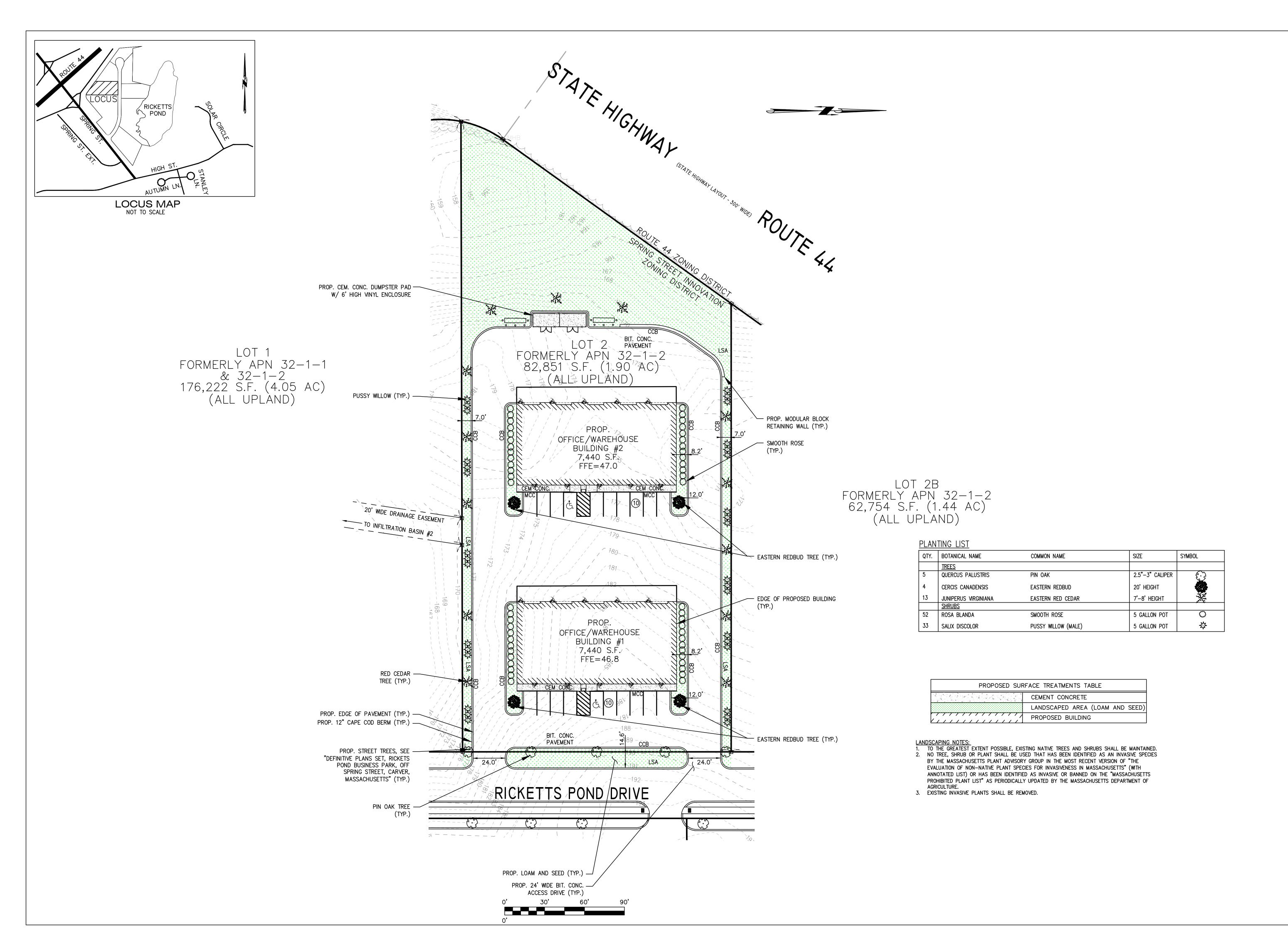
ШО

PROFESSIONAL ENGINEER:

DRAWN BY: DESIGNED BY: CHECKED BY: APPROVED BY: FEBRUARY 28, 2022 PROJECT NO.: 221-190

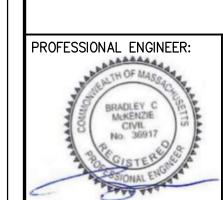
DWG. TITLE: **EROSION AND** SEDIMENT

CONTROL PLAN



Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

DE TS I SIT

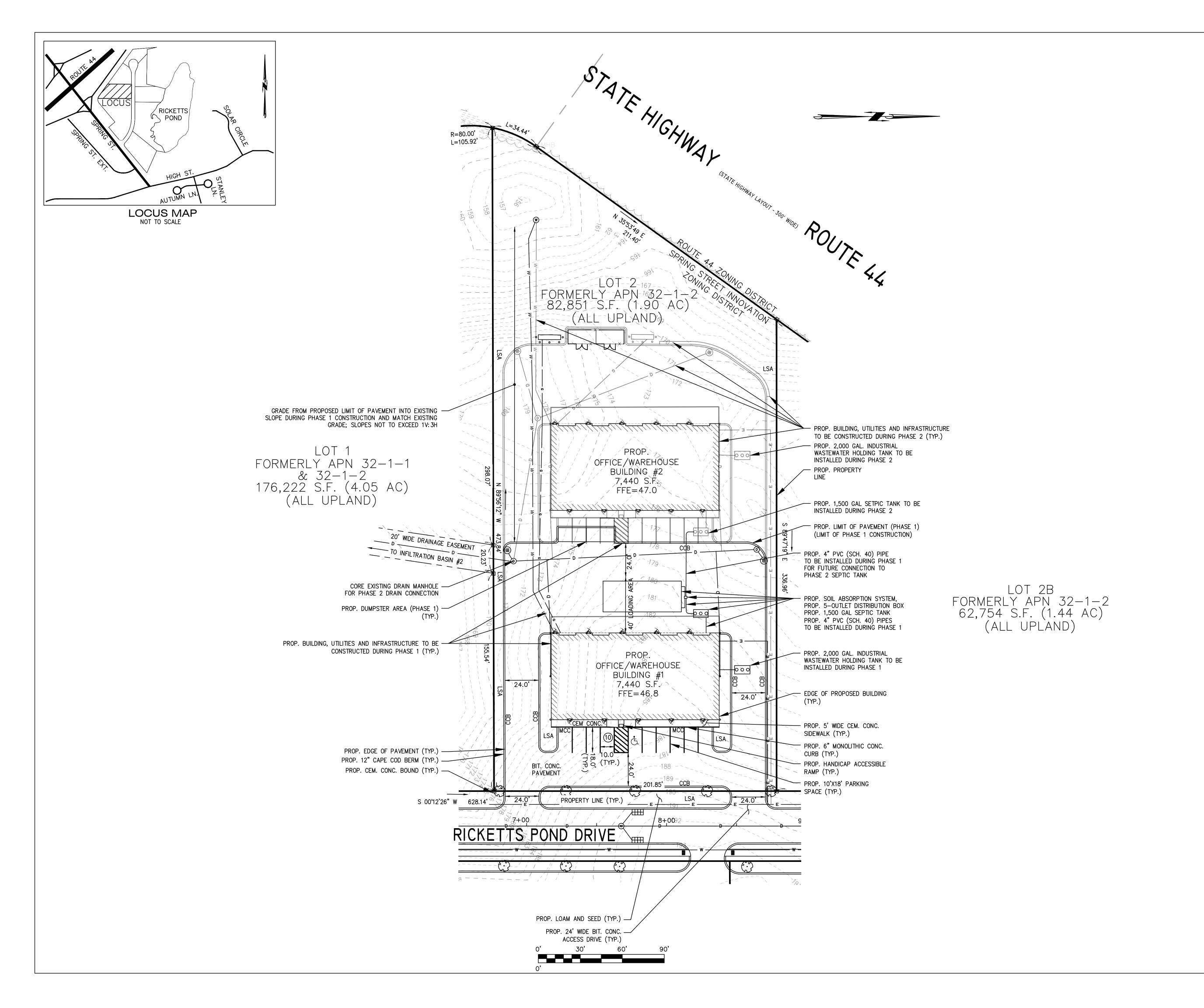


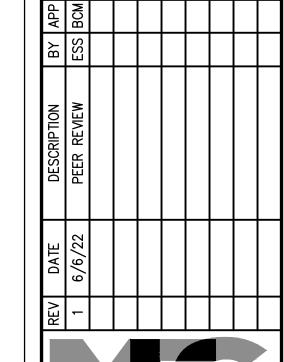
PETER SPRAGUE
44 FOX DEN ROAD
KINGSTON, MA 02364

DRAWN BY: DESIGNED BY: CHECKED BY: APPROVED BY: FEBRUARY 28, 2022 1"=30' 221-190

PROJECT NO.: DWG. TITLE:

LANDSCAPING PLAN





Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com

PROFESSIONAL ENGINEER:

DE TS

PETER SPRAGUE
44 FOX DEN ROAD
KINGSTON, MA 02364

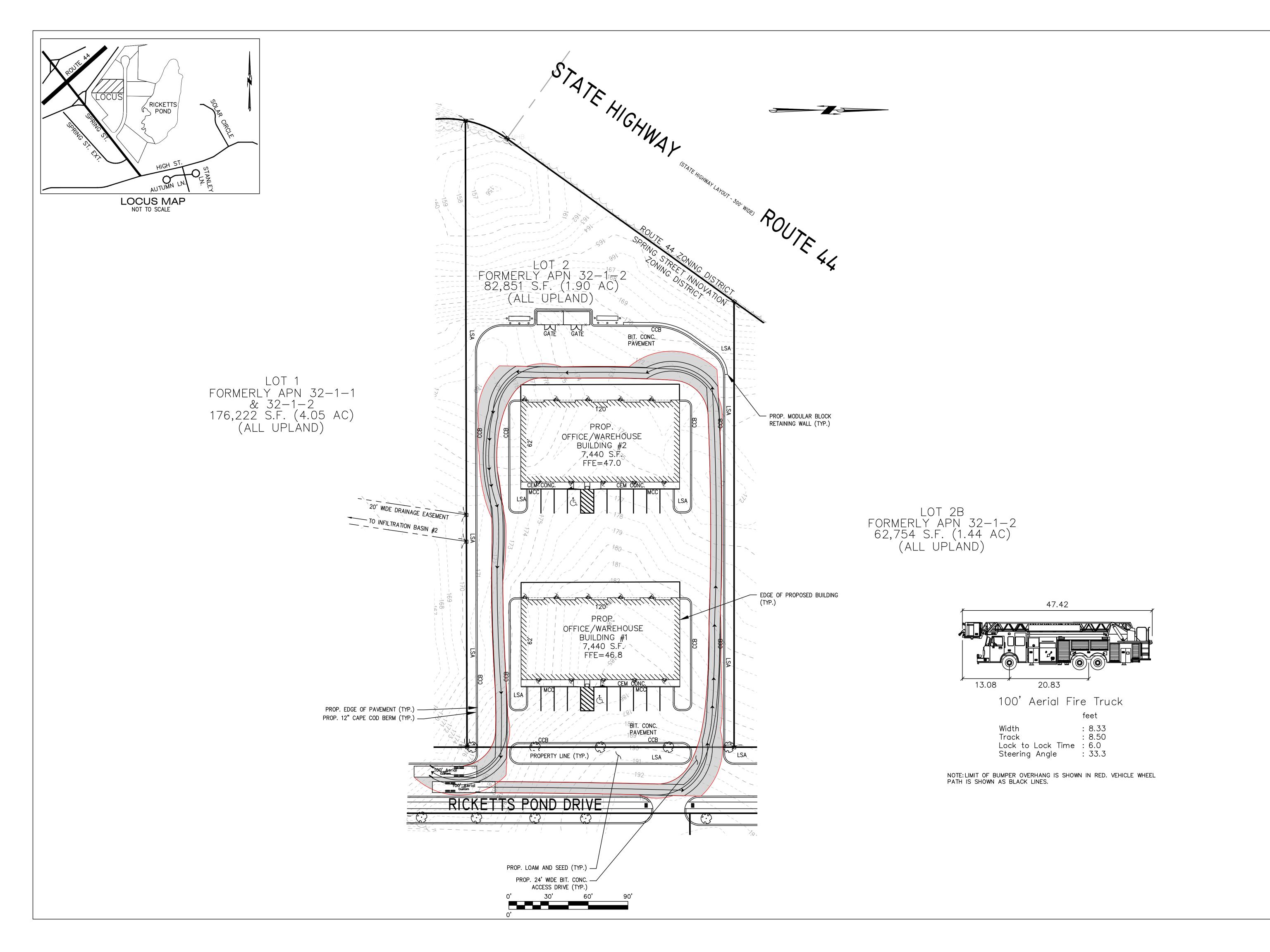
DRAWN BY: DESIGNED BY: CHECKED BY: BCM APPROVED BY: FEBRUARY 28, 2022 1"=30' 221-190

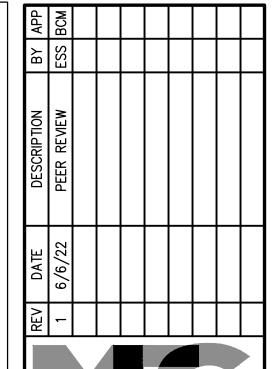
SCALE: PROJECT NO.: DWG. TITLE:

PHASING PLAN

DWG. NO:

P-1





Assinippi Office Park
150 Longwater Drive, Suite 101
Norwell, MA 02061
P: 781.792.3900
F: 781.792.0333
www.mckeng.com

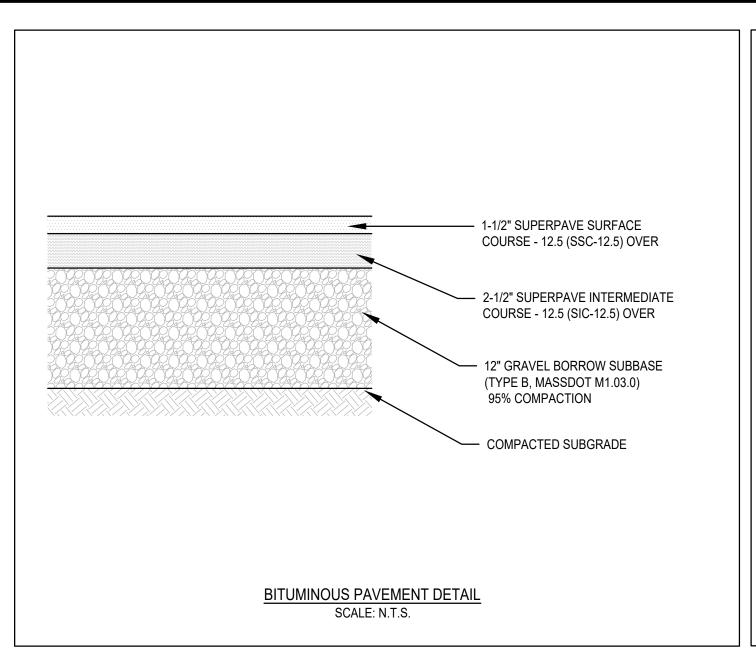
DE TS SIT

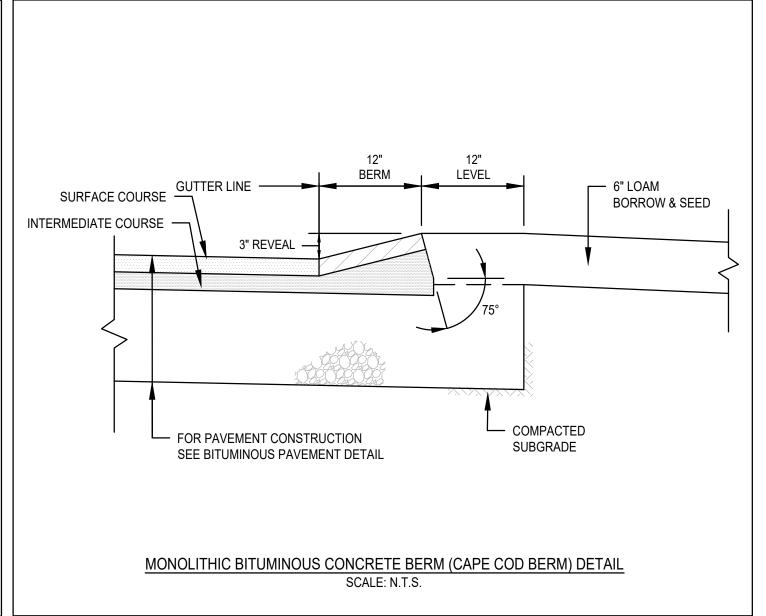
PROFESSIONAL ENGINEER:

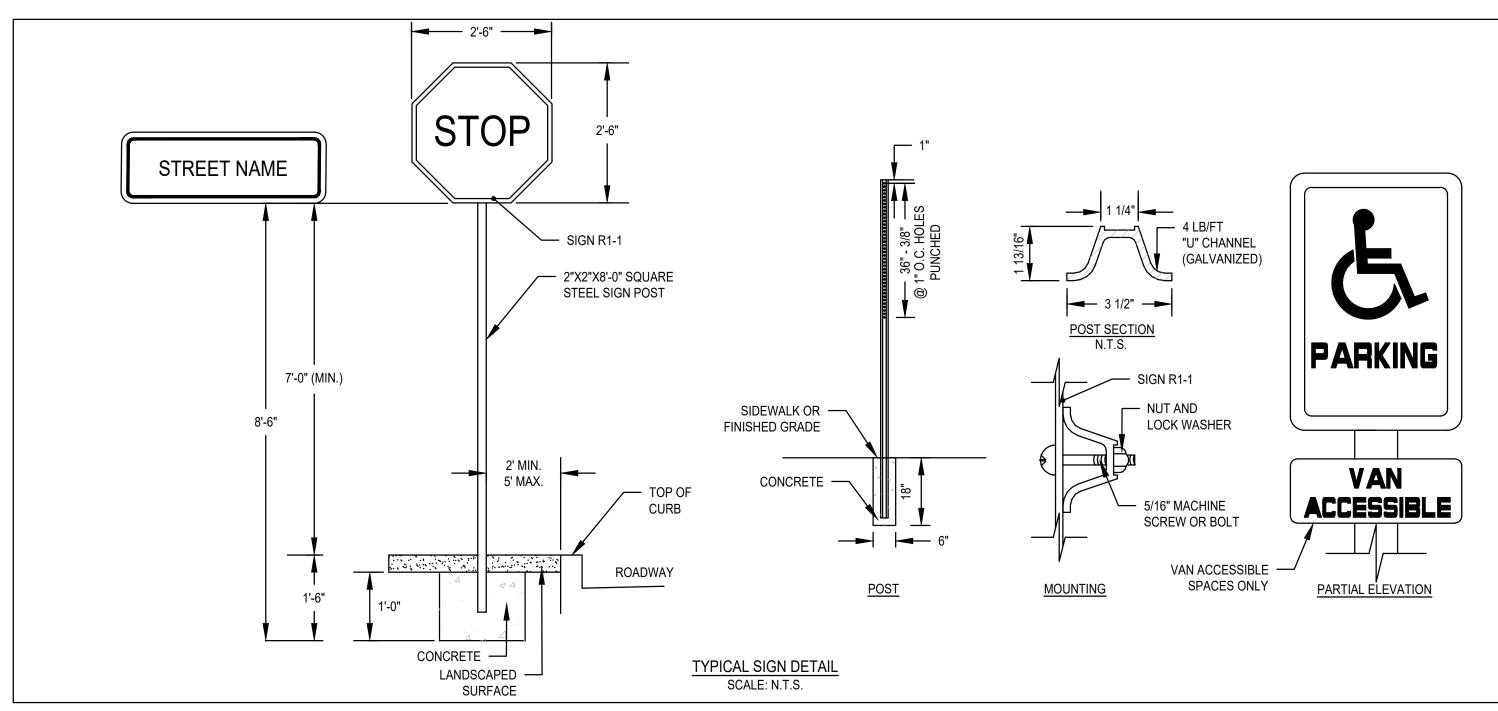
DRAWN BY: DESIGNED BY: CHECKED BY: VED BY: BCM
FEBRUARY 28, 2022
1"=30" APPROVED BY: SCALE: PROJECT NO.: 221-190

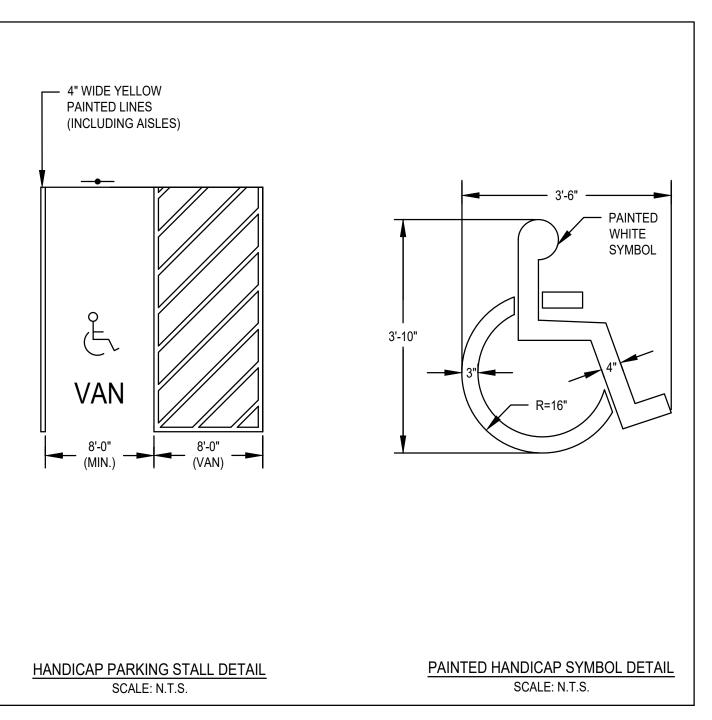
DWG. TITLE: **EMERGENCY** VEHICLE ACCESS PLAN

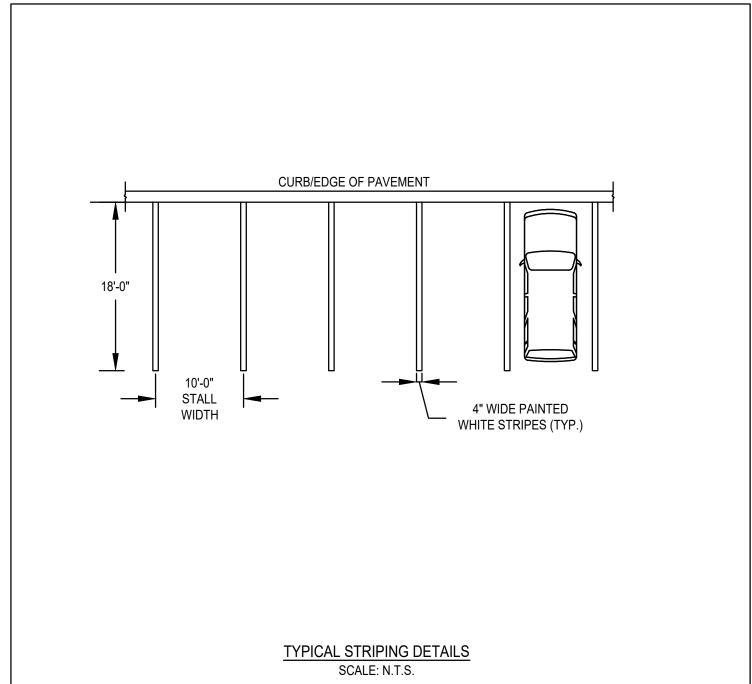
EVA-1

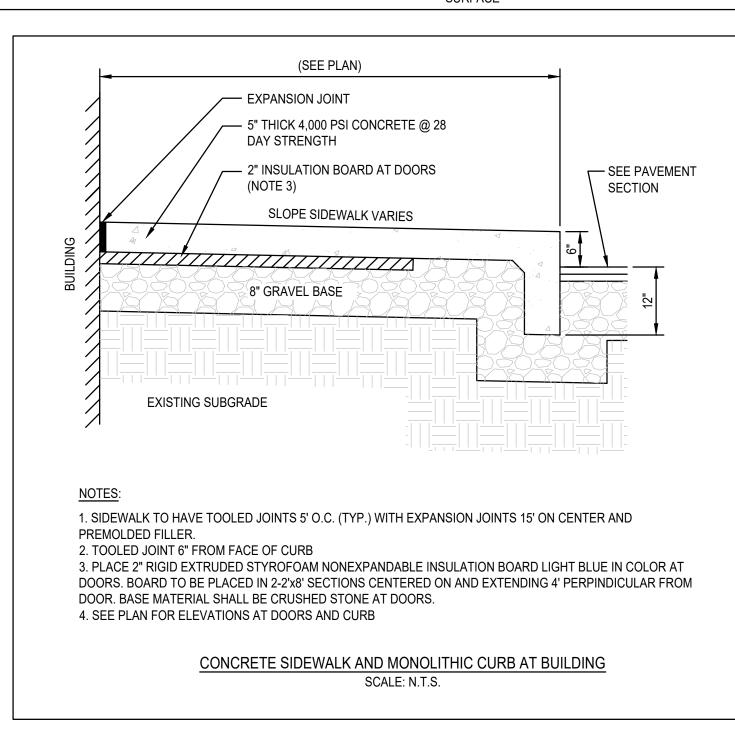


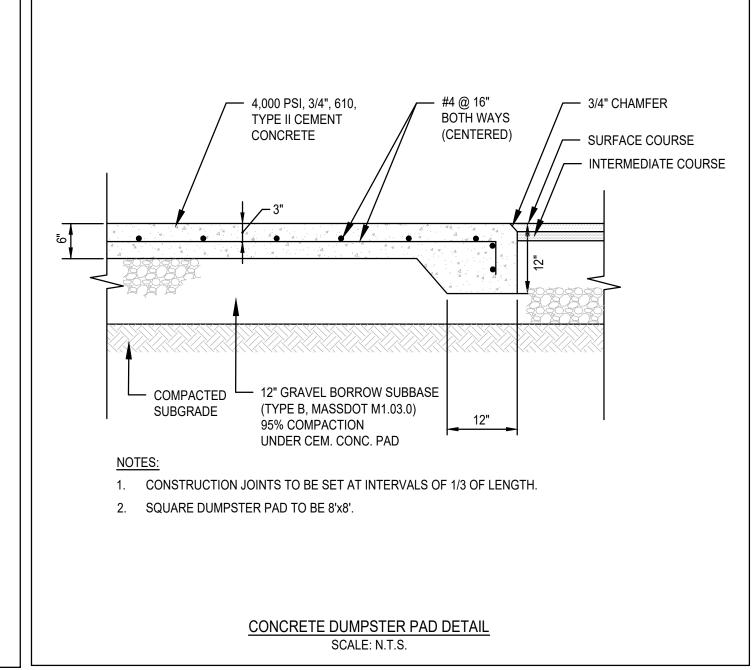


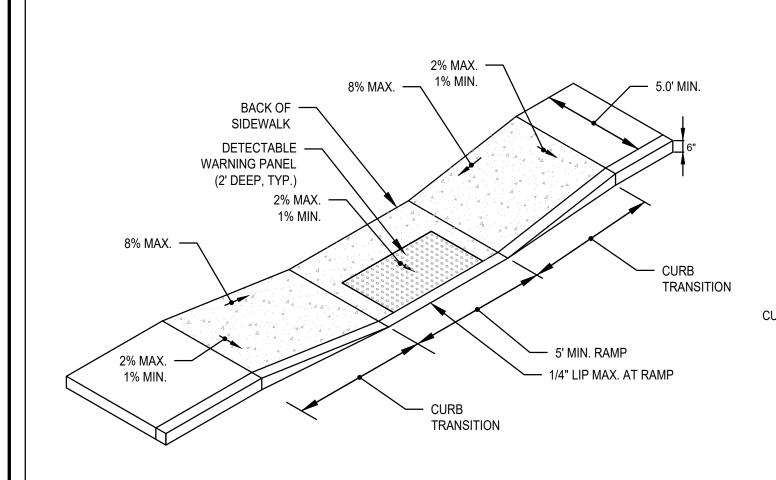


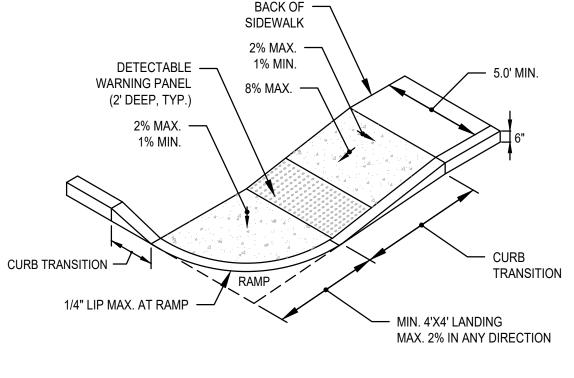


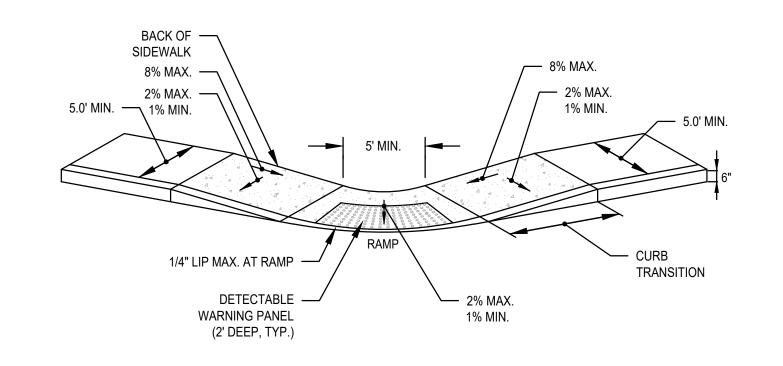












CEM. CONC. ACCESSIBLE CURB RAMPS

SCALE: N.T.S.

1. CURBS AND WALKS ALONG ACCESSIBLE ROUTES SHALL MEET OR EXCEED THE APPLICABLE REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD, FAIR HOUSING ACT AND ADA.

2. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2%.

3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.

4. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%..

5. MAINTAIN A MINIMUM OF 3 FEET CLEAR AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS ETC.).

6. GRADE BASE OF RAMP TO PREVENT PONDING..

7. RAMP CONSTRUCTION SHALL CONFORM TO TYPICAL SIDEWALK SECTION.

8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5'X5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.

9. ALL CURBING AT RAMPS SHALL BE VERTICAL CURBING SET FLUSH WHERE IT ABUTS ROADWAY.

10. ALL RAMPS SHALL BE CEMENT CONCRETE WITH ROUGHENED NON-SLIP SURFACE.

11. ALL DETECTABLE WARNING PANELS SHALL BE CAST IN PLACE WITH A STAINLESS STEEL ANCHORING SYSTEM. MINIMUM DIMENSIONS SHALL BE 2-FEET WIDE BY 5-FEET LONG, OR AS APPROVED.

12. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE-CONTACT.

13. CEMENT CONCRETE TO BE 4000 PSI, 3/4", 610, TYPE II.

© MCKENZIE ENGINEERING GROUP, INC.

MCKENZIE ENGINEERING GROUP Assinippi Office Park 150 Longwater Drive, Suite 101 Norwell, MA 02061 P: 781.792.3900 F: 781.792.0333 www.mckeng.com DE PROFESSIONAL ENGINEER:

SPRAGUE DEN ROAD TON, MA 023 PETER 44 FOX I

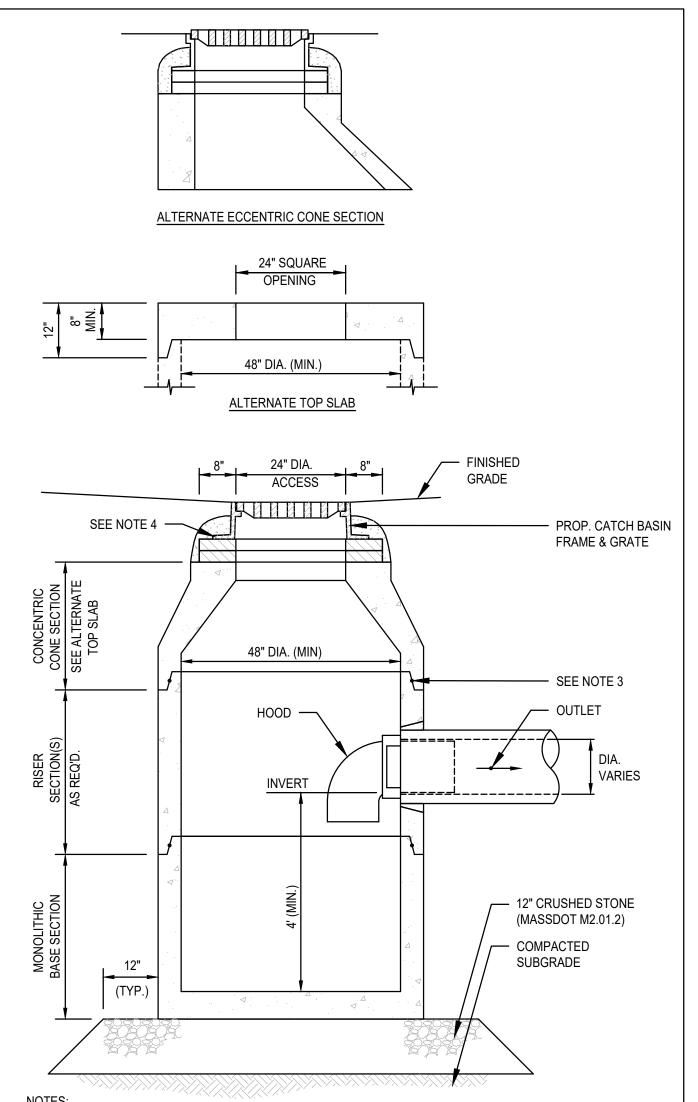
DRAWN BY: DESIGNED BY: ESS

CHECKED BY: BCM APPROVED BY: FEBRUARY 28, 2022 AS NOTED PROJECT NO.: 221-190 DWG. TITLE:

CONSTRUCTION **DETAILS**

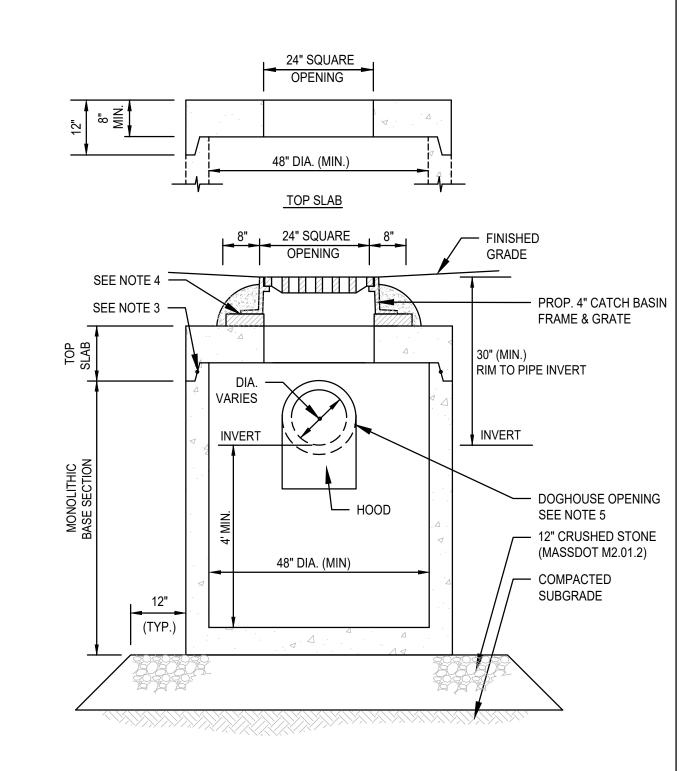
DWG. NO:

M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 2\221-190 DETAIL SHEETS.DWG



- 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. MORTAR ALL PIPE CONNECTIONS. 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).

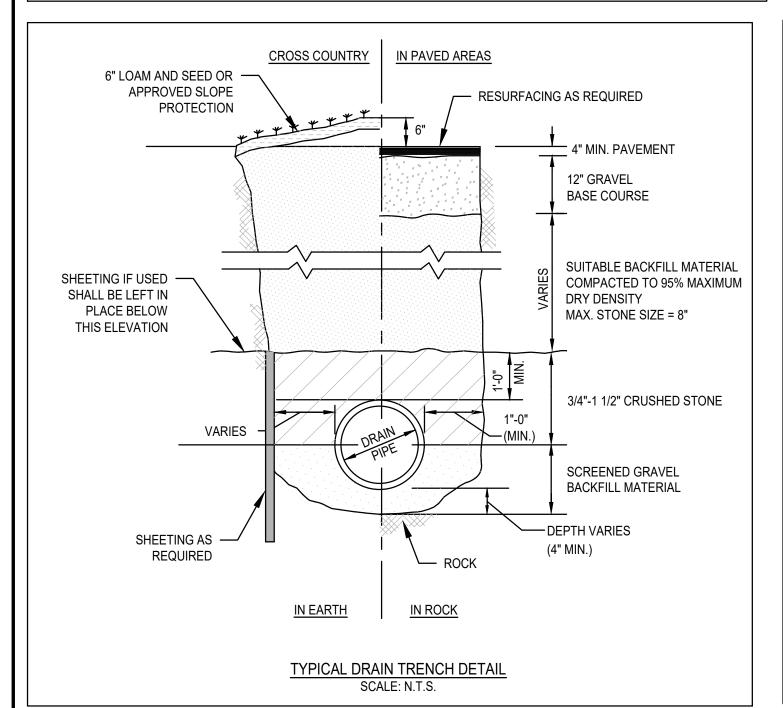
CATCH BASIN W/HOOD SCALE: N.T.S.

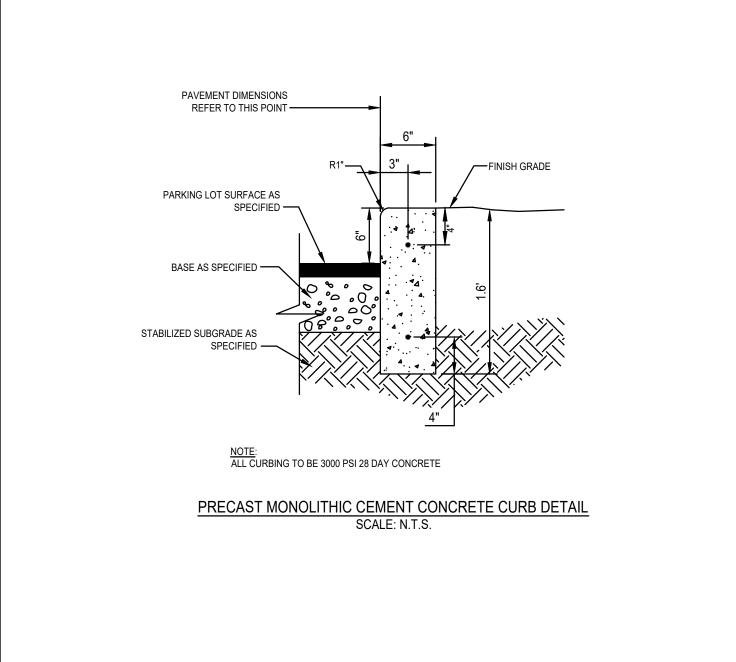


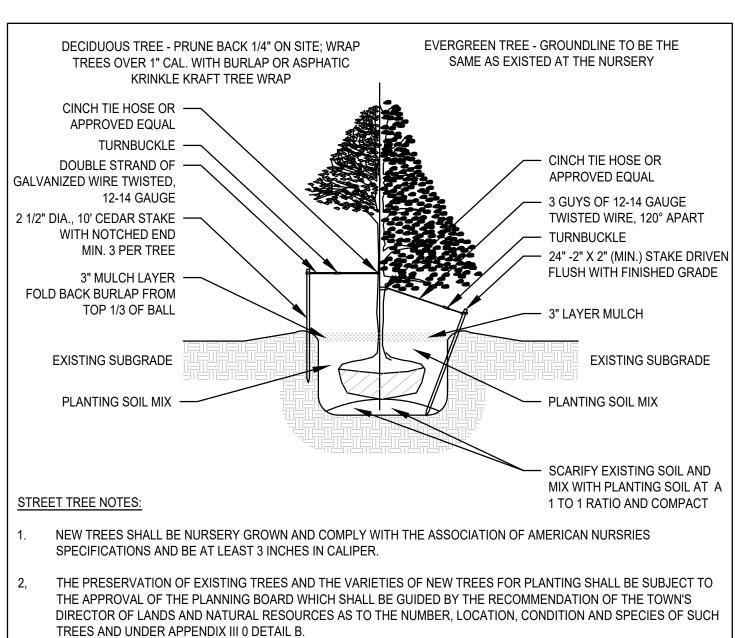
NOTES:

- 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. MORTAR ALL PIPE CONNECTIONS. 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).
- 5. PROVIDE DOG HOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHOULD NOT REST DIRECTLY ON PIPE. MORTAR ALL PIPE CONNECTIONS.

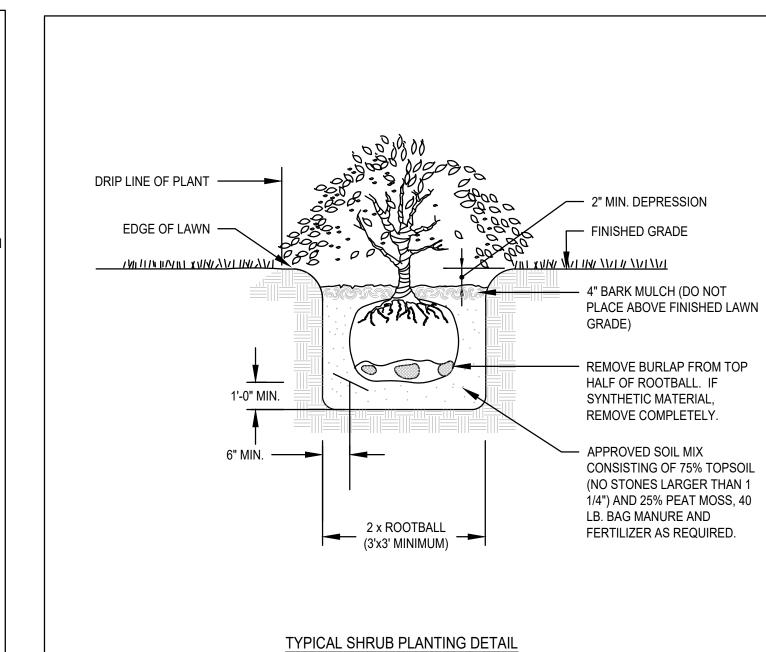
SHALLOW CATCH BASIN SCALE: N.T.S.







DECIDUOUS AND EVERGREEN TREE PLANTING DETAIL SCALE: N.T.S.



SCALE: N.T.S.

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION

SEEDING

MIXTURE 1/

SEEDING SPECIFICATIONS			SEEDING RATES	
SEEDING RECOMMENDATIONS			POUND / ACRE	POUNDS / 1,000 S.F.
SEEDBED PREPARATION A SURFACE AND SEEPAGE WATER SEEPAGE	HOULD BE DRAINED OR DIVERTED FROM THE SITE TO	A. TALL FESCUE CREEPING RED FESCUE	20 20	0.45 0.45
PREVENT DROWNING OR WINTER I		REDTOP TOTAL	2 42	<u>0.05</u> 0.95
	ES AND TRASH SHOULD BE REMOVED BECAUSE THEY TURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL	B. TALL FESCUE	15	0.35
	FABOUT FOUR INCHES TO PREPARE A SEEDBED AND MIX DIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM	CREEPING RED FESCUE BIRDSFOOT TREFOIL	10 <u>15</u> 40	0.25 0.35
AND SMOOTH CONDITION. THE LA SLOPE WHEREVER PRACTICAL.	ST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE	TOTAL C. TALL FESCUE		0.95
2. ESTABLISHING A STAND		C. TALL FESCUE CREEPING RED FESCUE BIRDSFOOT TREFOIL	20 20	0.45 0.45 0.20
	APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INDEPLY AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE	TOTAL	<u>8</u> 48	1.10
	ESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING	D. BIRDSFOOT TREFOIL REDTOP	10 5	0.25 0.10
AGRICULTURAL LIMESTONE:	2 TONS PER ACRE OR 100 LBS. PER 1000 SQ. FT.	TOTAL	<u>5</u> 15	0.35
NITROGEN (N): PHOSPHATE (P O):	50 LBS. PER ACRE OR 1.1 LBS. PER 1000 SQ. FT. 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.	E. TALL FESCUE FLATPEA	20 <u>30</u> 50	0.45 0.75
POTASH (K O):	100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT. OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS.	TOTAL F. CREEPING RED FESCUE 1/		1.20
PER ACRE OF 5-10-10 FERTILIZER)	of 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS.	KENTUCKY BLUEGRASS 1/ TOTAL	85 <u>85</u> 170	2.00 2.00 4.00
METHODS INCLUDE BROADCASTIN	MLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. G, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS H OF SOIL OR LESS, BY CULTIVATING OR RAKING.	G. TALL FESCUE 1/	150	3.60

TEMPORARY SEEDING RATES C. REFER TO SEEDING RATES AND SEEDING GUIDES FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. H. WINTER RYE

D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

- A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER
- B. MULCH WILL BE HELD IN PLACE USING TECHNIQUES AS SPECIFIED IN THE "BEST MANAGEMENT PRACTICES OPERATION AND MAINTENANCE PLAN"

4. MAINTENANCE TO ESTABLISH A STAND

1 1/4 INCH

No.4

No.40

No.100

No.200

1. TOP OF LOAM (TOPSOIL) IS FINISHED GRADE.

CONFORM TO THE FOLLOWING GRADATION:

85-100

60-85

38-60

28-40

2. TOPSOIL SHALL CONTAIN BETWEEN 5% AND 12% ORGANIC MATTER

AND SHALL HAVE A MAXIMUM STONE SIZE OF 3/4" AND SHALL

- A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
- B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.

C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

J NIKAKIMMINIKAKIMMINIKAKIMMINIKAKIMMI IIKAKIMMI - PREPARED SEEDED LAWN OR SOD - PREPARED SCREENED TOPSOIL (NO STONES LARGER THAN 3/4") PREPARED SUBGRADE

ANNUAL RYEGRASS

STEEP CUTS AND

FILLS, BORROW

AND DISPOSAL

WATERWAYS, EMERGENCY

CHANNELS WITH FLOWING

SPILLWAYS, AND OTHER

AREAS

WATER

LAWN AREAS

SEEDING GUIDE

TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

TOTAL

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

C) MCKENZIE ENGINEERING GROUP, INC

2.50 (BEST FOR FALL SEEDING, AUG 15 TO SEPT. 5) 2.00 (BEST FOR SPRING SEEDING, BEFORE MAY 15)

5.50 (MAY BE USED EARLY SPRING ALSO)

1.00 (BEST FOR FALL SEEDING, AUG 15 TO SEPT. 15)

FEBRUARY 28, 2022 AS NOTED 221-190 CONSTRUCTION **DETAILS** DWG. NO:

M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 2\221-190 DETAIL SHEETS.DWG

M C K E N Z I E

150 Longwater Drive, Suite 101

Assinippi Office Park

Norwell, MA 02061

P: 781.792.3900

F: 781.792.0333

www.mckeng.com

ENGINEERING GROUP

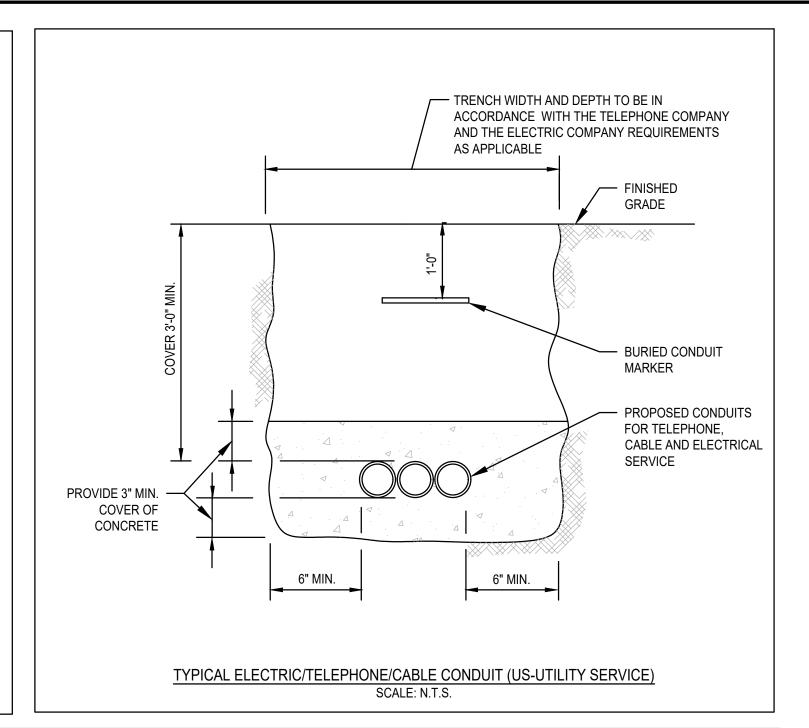
PROFESSIONAL ENGINEER:

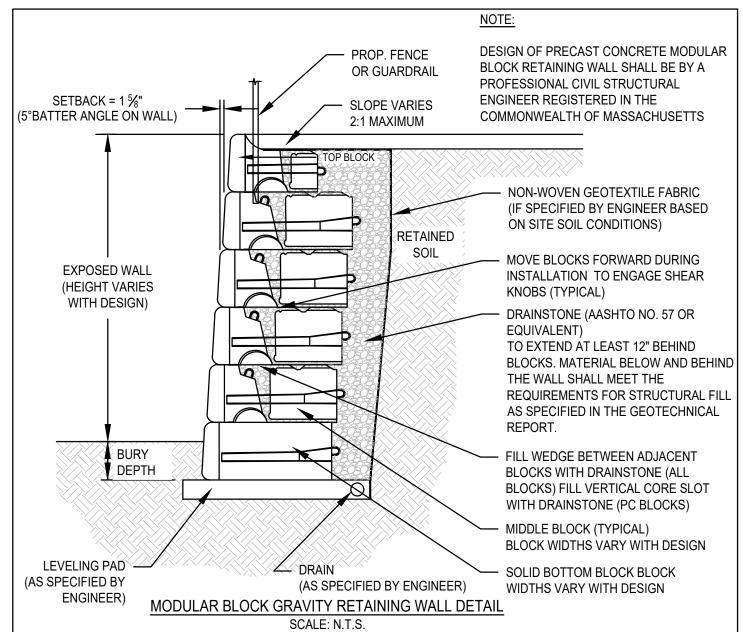
DRAWN BY: ESS DESIGNED BY: ESS BCM CHECKED BY: APPROVED BY: BCM SCALE:

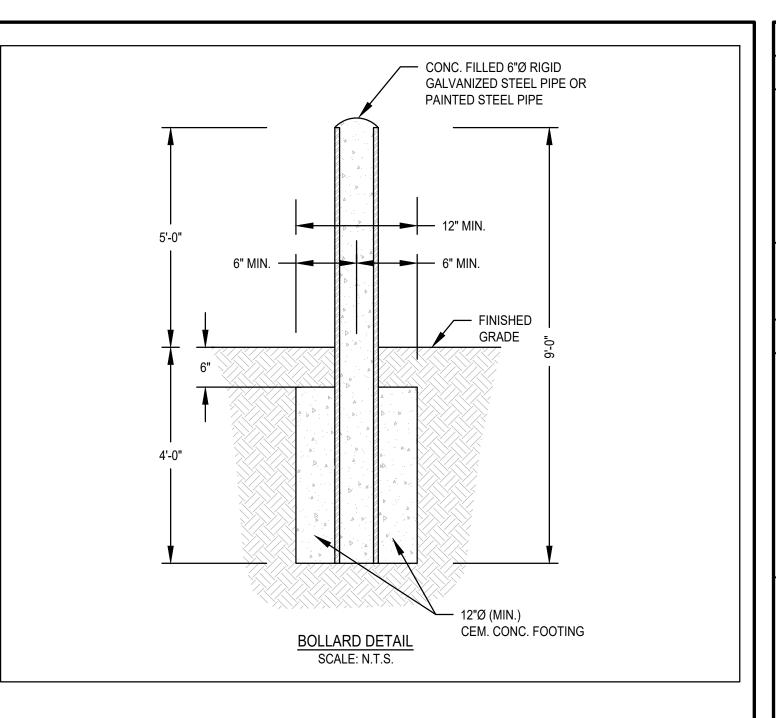
PROJECT NO.: DWG. TITLE:

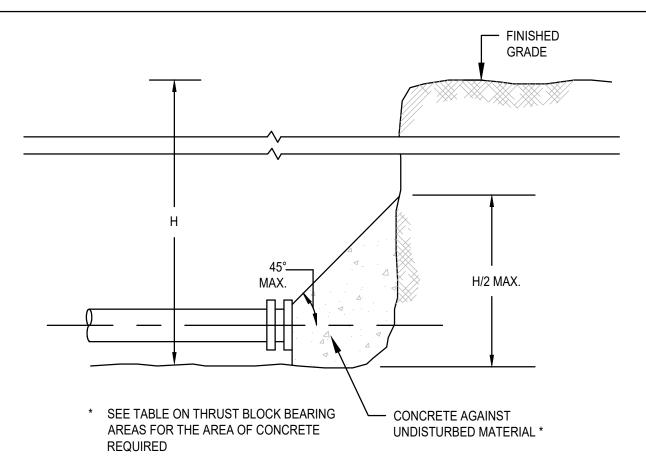
GENERAL NOTES

- 1. IF SHEETING IS USED, IT SHALL BE CUT OFF NO MORE THAN 12" ABOVE TOP OF PIPE.
- 2. ALL PIPES SHALL BE PRESSURE TESTED AT 200 PSI WORKING PRESSURE FOR A MINIMUM DURATION OF TWO HOUR
- 3. WATER SYSTEM IS TO BE DISINFECTED TO 50 P.P.M. AVAILABLE CHLORINE AND AFTER 24 HOURS TO 25 P.P.M. OR AS REQUIRED BY CARVER WATER SUPERINTENDENT/ENGINEER.
- 4. WATER PIPE IS TO BE CEMENT LINED DUCTILE IRON "TYTON" OR EQUAL TYPE JOIN, CONFORMING TO A.N.S.I./A.W.W.A. C150/A21.50, CLASS 52, AS APPROVED BY THE TOWN'S WATER SUPERINTENDENT/ENGINEER.
- 5. ALL PIPING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH A.W.W.A. STANDARDS PRIOR TO PAVING IF PAVING ABOVE TRENCH IS REQUIRED.
- 6. BACKFILL IS TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY BY AASHTO T-180 D.
- 7. ALL WATER PIPE SHALL BE LAID WITH A MINIMUM OF 5 FEET OF COVER OF APPROVED MATERIALS.
- 8. RESULTS FROM PRESSURE TESTING AND DISINFECTION SHALL BE FURNISHED TO THE CARVER WATER DEPT. AND DIRECTOR OF PUBLIC WORKS FOR APPROVAL PRIOR TO WATER BEING TURNED ON.
- 9. ALL WORK SHALL BE IN CONFORMANCE WITH CARVER WATER DEPT. STANDARDS.
- 10. ALL PERMITS REQUIRED FOR STREET OPENINGS AND WATER MAIN TAPPING MUST BE OBTAINED.
- 11. NO WATER WILL BE TURNED ON IN THE PROJECT WITHOUT CARVER WATER DEPT. APPROVAL.

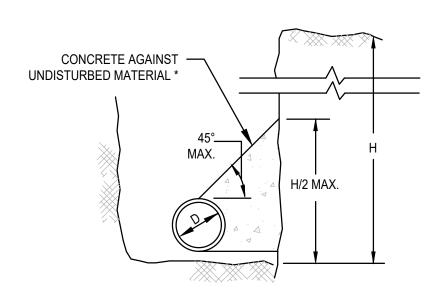








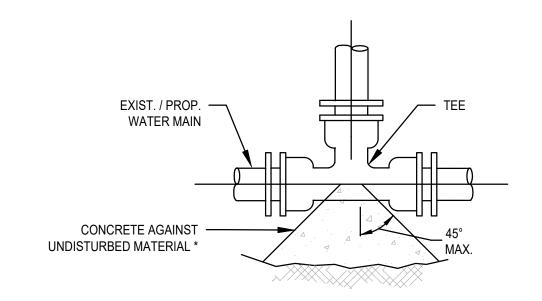
THRUST WATER MAIN PLUG SCALE: N.T.S.



THRUST WATER MAIN THRUST BLOCK SECTION DETAIL

THRUST BLOCK BEARING AREAS FOR WATER PIPE

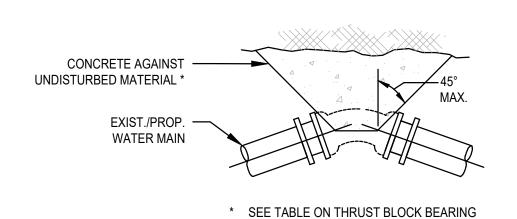
TABLE OF BEARING AREAS IN SQ. FT. AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS*			
SIZE OF MAIN (IN.)	90° BEND	TEES AND PLUGS	45° BEND
6	4	2.5	2
8	6	4	3
12	12	9	7
16	21	16	12



* SEE TABLE ON THRUST BLOCK BEARING AREAS FOR THE AREA OF CONCRETE REQUIRED

TYPICAL WATER MAIN TEE THRUST BLOCK DETAIL

SCALE: N.T.S.



REQUIRED

THRUST WATER MAIN BEND THRUST BLOCK DETAIL SCALE: N.T.S.

AREAS FOR THE AREA OF CONCRETE

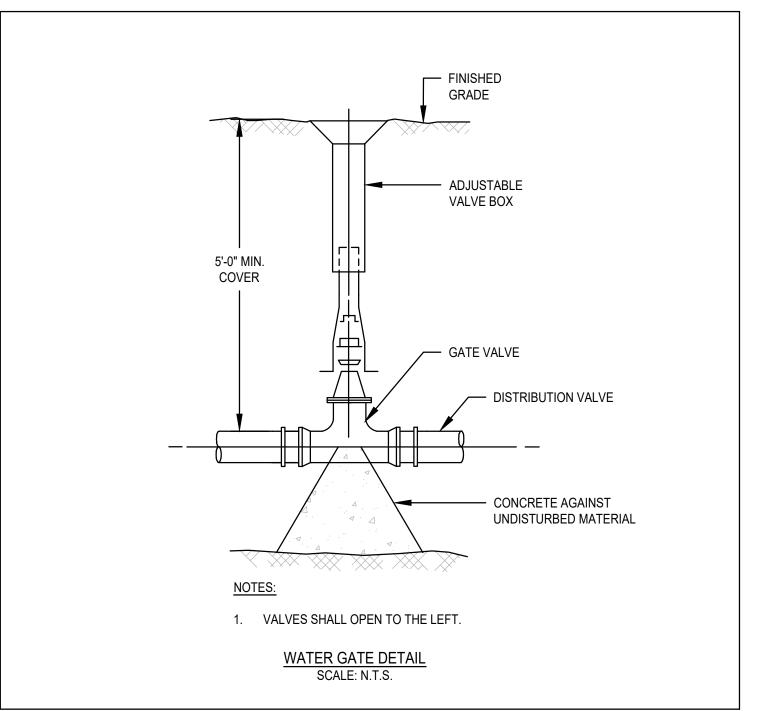
NOTES:

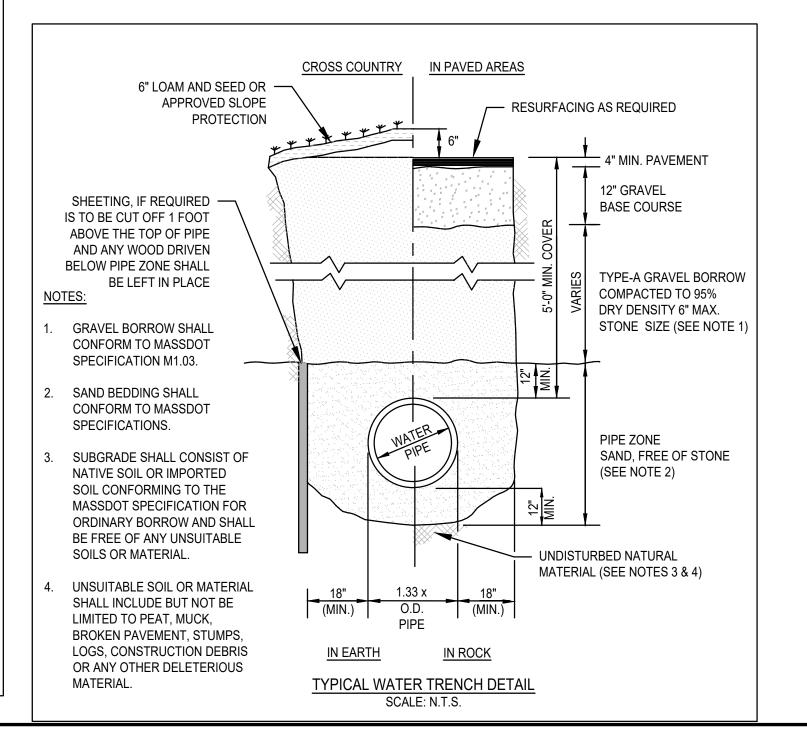
- 1. FOR FITTINGS WITH LESS THAN 45° DEFLECTION, USE BEARING AREAS FOR 45° BEND.
- 2. BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 P.S.F. AND INTERNAL WATER PRESSURE OF 150 P.S.I.G. JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DIREGARDED FOR TRENCHES IN ROCK WHERE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

ASSUMPTIONS:

* TYPE OF SOIL IS MEDIUM CLAYEY, 6 OR MORE BLOWS PER FOOT, OR LOOSE GRANULAR, 9 OR MORE BLOWS PER FOOT. SOIL CONDITIONS OTHER THAN THOSE GIVEN WILL REQUIRE LARGER BEARING AREAS.

THRUST BLOCK DETAILS









<u>~</u> <u>~</u>

M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 2\221-190 DETAIL SHEETS.DWG

C MCKENZIE ENGINEERING GROUP, INC.

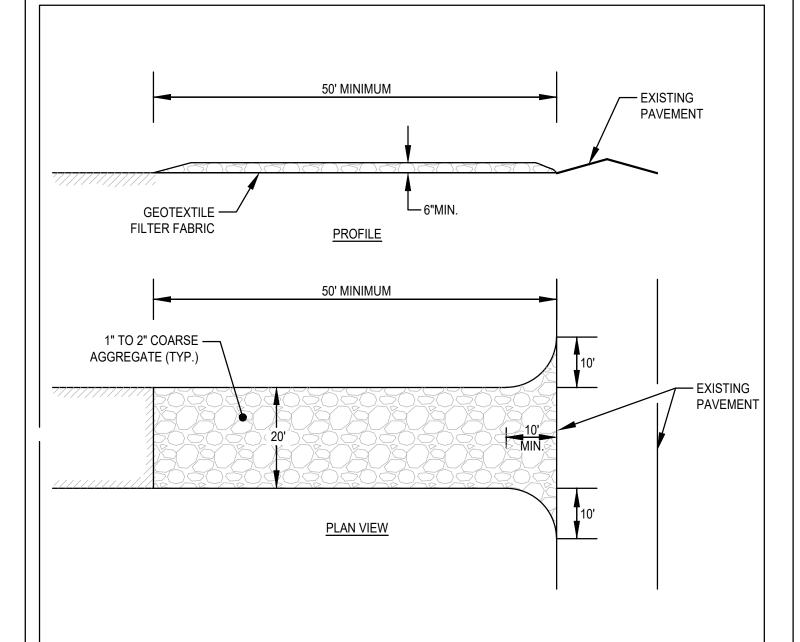
CONSTRUCTION SEQUENCE

TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE.

- 1. THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING PRIOR TO ANY
- CONSTRUCTION ACTIVITY. STABILIZATION PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN & PLACE SILTATION FENCE ON THE SITE PLANS.
- CLEAR AND GRUB UP AS REQUIRED FOR THE CONSTRUCTION OF THE ROADWAY, PARKING AREAS AND RELATED INFRASTRUCTURE.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. EXCAVATE TOPSOIL AND SUBSOIL FROM CUT AND FILL AREAS AND STOCKPILE ON SITE IN LOCATIONS SHOWN ON THE PLAN. CONSIDERATION SHOULD BE GIVEN TO LOCATING STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, WHERE POSSIBLE, TO ACT AS
- CONSTRUCT CUT AND FILL AREAS, INSTALLING HAYBALE CHECK DAMS AT TOES OF ALL 3:1 OR GREATER SLOPES, AND AT ENDS OF ALL CUT AREAS. ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS. PLACE ALL SLOPE PROTECTION WHERE INDICATED ON THE
- INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES. ALL CATCH BASINS SHALL BE
- COVERED WITH SILTSACK OR EQUIVALENT INLET PROTECTION. GRADE ROADWAY AND PARKING AREAS TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES WHERE WARRANTED. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN.
- 9. EXCAVATE AND CONSTRUCT BUILDING FOUNDATIONS. 10. PLACE GRAVEL SUBBASE.
- 11. PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON ROADWAY AND PARKING AREAS. 12. CONSTRUCT BUILDING STRUCTURES AND ASSOCIATED UTILITY CONNECTIONS.
- 13. GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH. 14. PLACE THE FINAL WEARING COURSE OF PAVEMENT.
- 15. COMPLETE FINE GRADING OF SHOULDERS AND PLACE PAVEMENT IN MISCELLANEOUS AREAS. 16. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ADEQUATE GROWTH IS ESTABLISHED. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND

EROSION AND SEDIMENTATION CONTROL

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



(SCE) CONSTRUCTION SPECIFICATIONS:

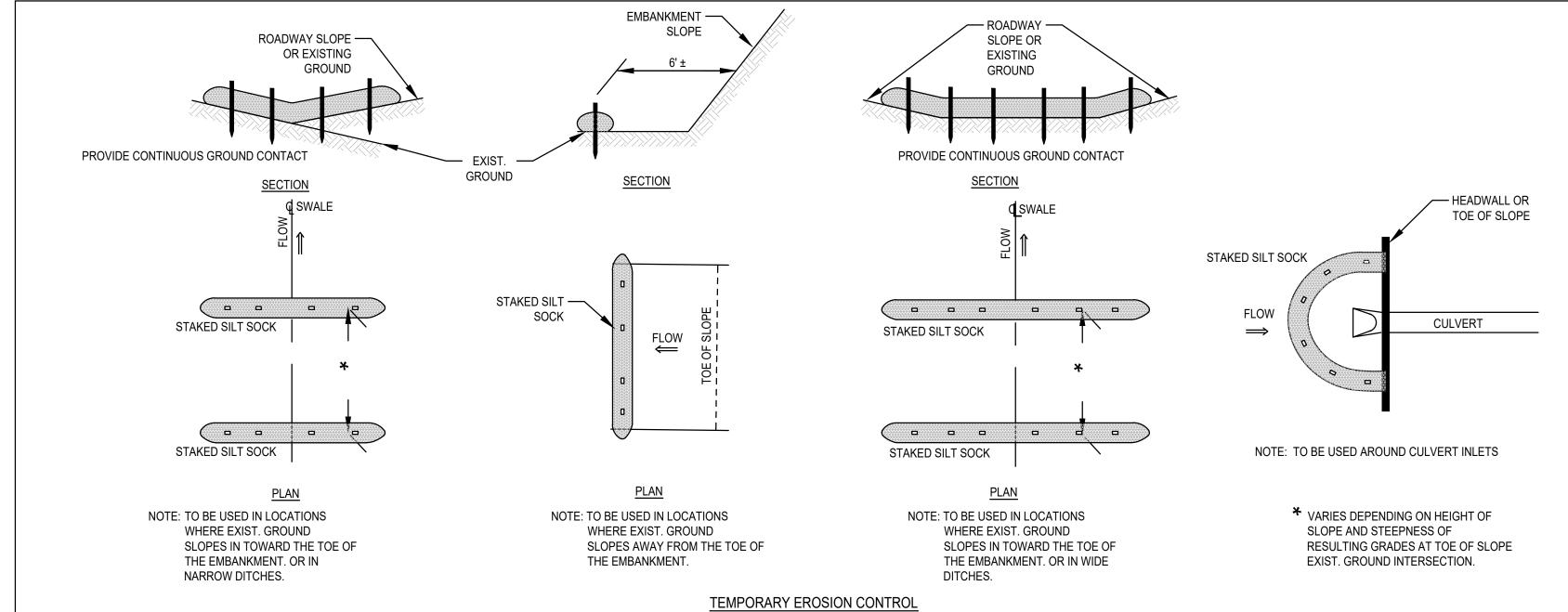
1. STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH

- STONE, RECLAIMED STONE. 2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET,
- EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH WOULD APPLY. 3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS
- THAN 6 INCHES. 4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN A FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
- 5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- 6. ALL SURFACE WATER THAT IS FLOWING TO OR DEVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED

STABILIZED CONSTRUCTION ENTRANCE (SCE) DETAIL SCALE: N.T.S.

CONSTRUCTION PHASE BMP OPERATION AND MAINTENANCE NOTES:

- 1. STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE SILT SOCK EROSION CONTROL BARRIERS, STABILIZED CONSTRUCTION ENTRANCES, CONCRETE
- WASH STATIONS, STOCKPILE AREAS, AND INLET PROTECTION. STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING.
- OPERATOR PERSONNEL AND/OR ITS CONSULTANTS MUST INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY 7 CALENDAR DAYS OR EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT ¹/₄ INCH OR GREATER. THE INSPECTOR SHOULD REVIEW THE EROSION AND SEDIMENT CONTROLS WITH RESPECT TO THE FOLLOWING: A. WHETHER OR NOT THE BMP WAS INSTALLED/PERFORMED CORRECTLY. B. WHETHER OR NOT THERE HAS BEEN DAMAGE TO THE BMP SINCE IT WAS INSTALLED
- C. WHAT SHOULD BE DONE TO CORRECT ANY PROBLEMS WITH THE BMP. 4. THE INSPECTOR SHALL COMPLETE THE INSPECTION SCHEDULE AND EVALUATION CHECKLIST FOR FINDINGS AND SHOULD REQUEST THE REQUIRED MAINTENANCE OR
- ALL SLOPES EXCEEDING 15% RESULTING FROM SITE GRADING SHALL BE BOTH COVERED WITH FOUR INCHES OF TOPSOIL AND PLANTED WITH A VEGETATED COVER SUFFICIENT TO PREVENT EROSION.



SCALE: N.T.S

1"x1" STAKES —

EVERY 8 LF

PROTECTED RESOURCE AREA

SCALE: N.T.S.

— 12" DIAM. BIODEGRADABLE SILT

COMPOST BLEND

CONSISTENT

GROUND CONTACT

DISTURBED AREA

SOCK FILLED WITH WOOD CHIP

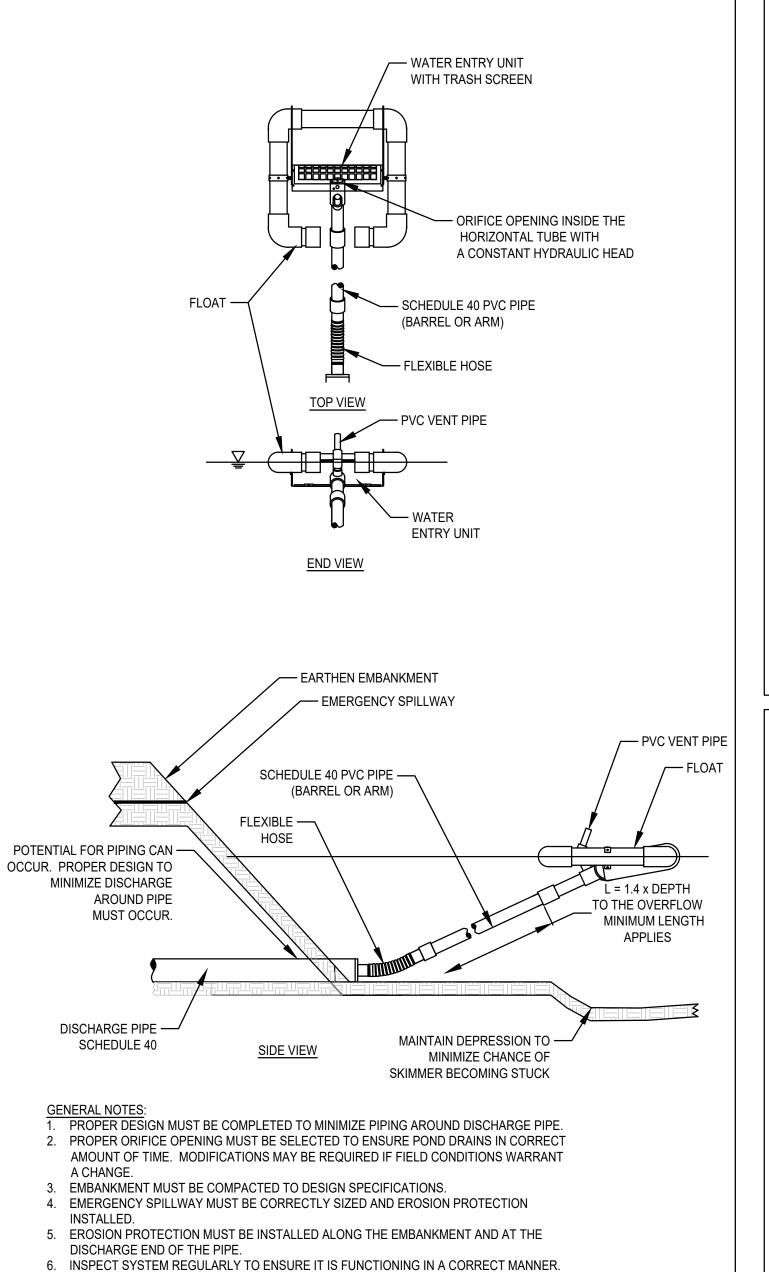
TRAPPED SEDIMENT

- 12" DIAM. BIODEGRADABLE SILT SOCK FILLED WITH WOOD CHIP

DISTURBED AREA

1. SILT SOCKS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY

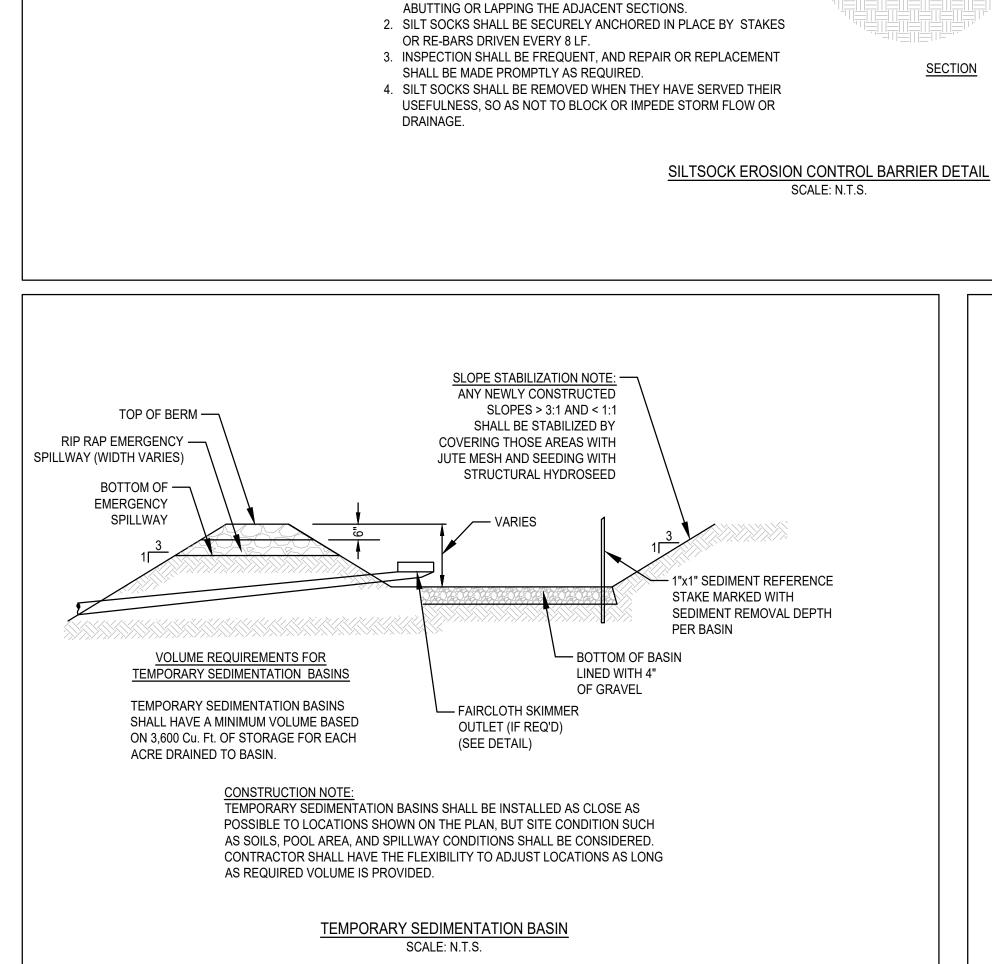
COMPOST BLEND



7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET,

FAIRCLOTH SKIMMER DISCHARGE SYSTEM W/EMBANKMENT

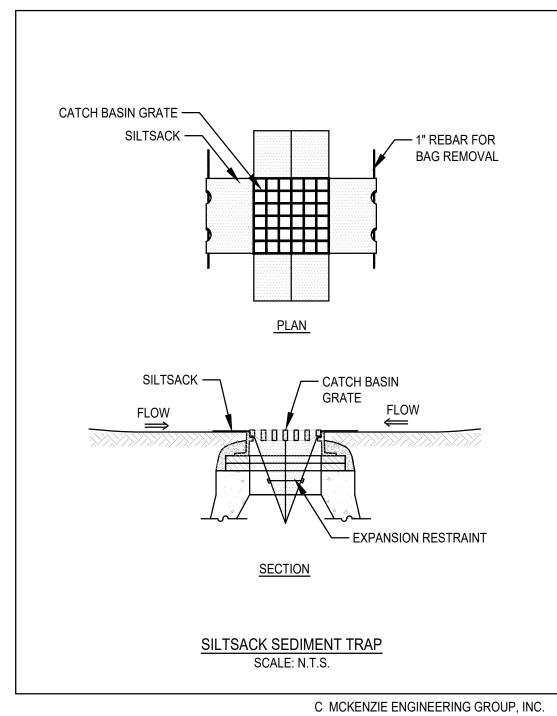
AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.



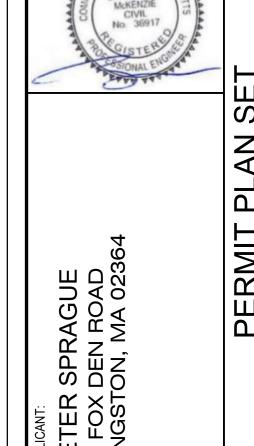
1"x1" STAKES —

PROTECTED RESOURCE AREA

EVERY 8 LF







PROFESSIONAL ENGINEER:

₽ 4 4 X DRAWN BY: DESIGNED BY: ESS CHECKED BY: BCM APPROVED BY: FEBRUARY 28, 2022 AS NOTED PROJECT NO.: 221-190 DWG. TITLE:

EROSION AND SEDIMENTATION DETAILS

DWG. NO:

M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 2\221-190 EROSION AND SEDIMENTATION CONTROL PLAN.DWG