EXCAVATION — REMOVE AND REPLACE NOTES AND VOLUME ESTIMATE:

EXCAVATE ALL MATERIAL (A, B LAYER) TO SANDY LOAM C1 LAYER (30"±), BELOW SYSTEM. REPLACE WITH CLEAN COURSE SAND IN ACCORDANCE WITH 310 CMR 15.255 (3). EXCAVATION TO BE INSPECTED BY GRADY CONSULTING L.L.C. AND TOWN PRIOR TO SOIL REPLACEMENT

APPROXIMATE PERC SAND VOLUME = 3,492 SF X ( $33.8 - 33.8\pm$ ) / 27 + 20% = NO SAND REQUIRED

EXCAVATE ALL MATERIAL (A, B LAYER) TO LOAMY SAND C1 LAYER (30"±), BELOW SYSTEM. REPLACE WITH CLEAN COURSE SAND IN ACCORDANCE WITH 310 CMR 15.255 (3). EXCAVATION TO BE INSPECTED BY GRADY CONSULTING L.L.C. AND TOWN PRIOR TO SOIL REPLACEMENT

APPROXIMATE PERC SAND VOLUME = 1,368 SF X  $(35.7 - 34.6 \pm)$  / 27 + 20% = 67 ± CY

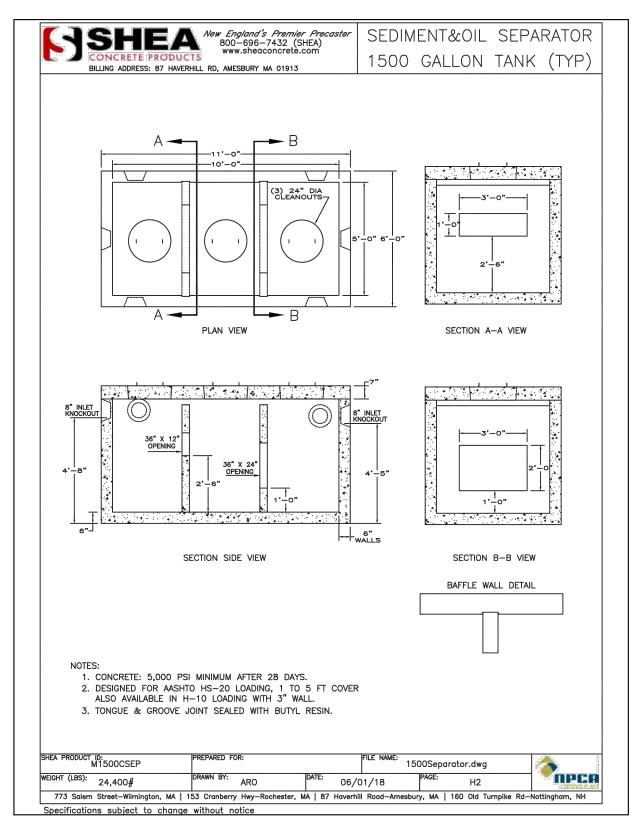
<u>SDS #3</u>

EXCAVATE ALL MATERIAL (A, B, C1 LAYER) TO LOAMY SAND C2 LAYER (60"±), BELOW SYSTEM. REPLACE WITH CLEAN COURSE SAND IN ACCORDANCE WITH 310 CMR 15.255 (3). EXCAVATION TO BE INSPECTED BY GRADY CONSULTING L.L.C. AND TOWN PRIOR TO SOIL REPLACEMENT

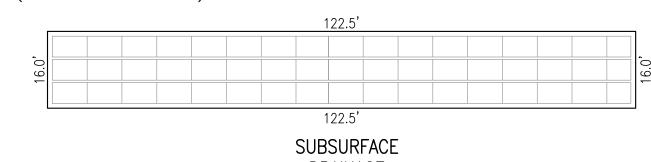
APPROXIMATE PERC SAND VOLUME = 1,202 SF X (18.0 - 15.2 $\pm$ ) / 27 + 20% = 150 $\pm$  CY

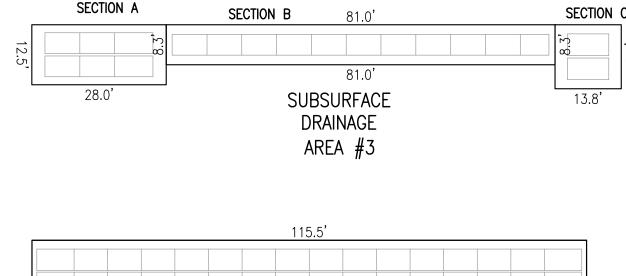
EXCAVATE ALL MATERIAL (A, B, C1 LAYER) TO LOAMY SAND C2 LAYER (50"±), BELOW SYSTEM. REPLACE WITH CLEAN COURSE SAND IN ACCORDANCE WITH 310 CMR 15.255 (3). EXCAVATION TO BE INSPECTED BY GRADY CONSULTING L.L.C. AND TOWN PRIOR TO SOIL REPLACEMENT

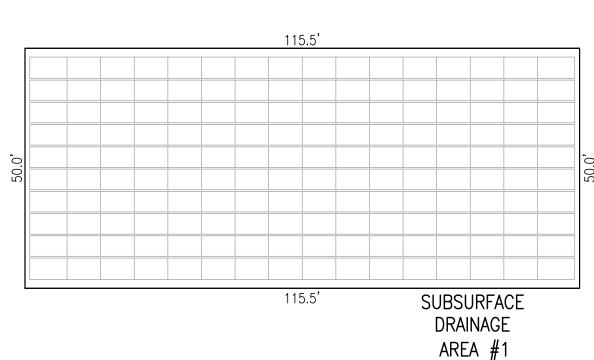
APPROXIMATE PERC SAND VOLUME = 485 SF X  $(34.5 - 31.0\pm)$  / 27 + 20% = 75± CY

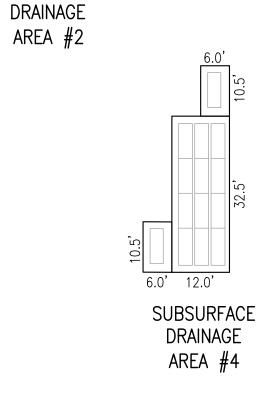


OIL & GRIT SEPARATOR (NOT TO SCALE)



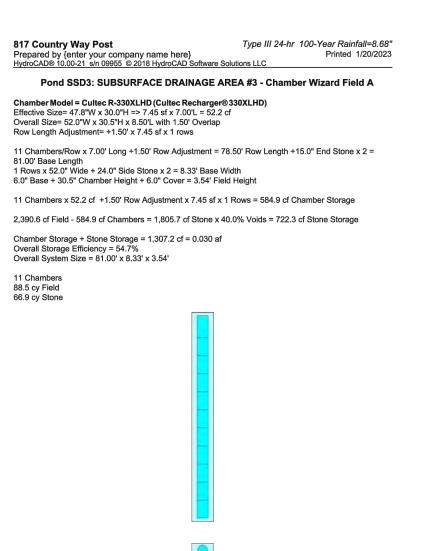




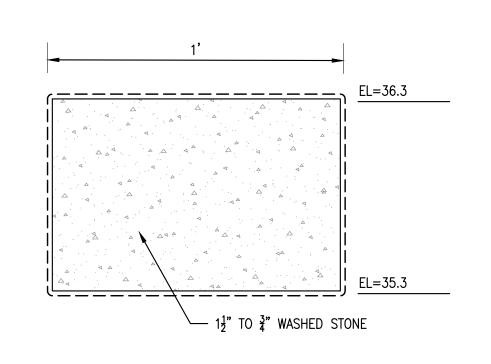


817 Country Way Post Type III 24-hr 100-Year Rainfall=8.68" Prepared by Grady Consulting LLC HydroCAD® 10.20-2g s/n 09955 © 2022 HydroCAD Software Solutions LLC Pond SSD4: SUBSURFACE DRAINAGE AREA #4 - Chamber Wizard Field A Chamber Model = Cultec C-100HD (Cultec Contactor® 100HD)
Effective Size= 32.1"W x 12.0"H => 1.86 sf x 7.50"L = 14.0 cf
Overall Size= 36.0"W x 12.5"H x 8.00"L with 0.50" Overlap Row Length Adjustment= +0.50' x 1.86 sf x 3 rows 36.0" Wide + 6.0" Spacing = 42.0" C-C Row Spacing 4 Chambers/Row x 7.50' Long +0.50' Row Adjustment = 30.50' Row Length +12.0" End Stone x 2 = 32.50' Base Length 3 Rows x 36.0" Wide + 6.0" Spacing x 2 + 12.0" Side Stone x 2 = 12.00' Base Width 12 Chambers x 14.0 cf +0.50' Row Adjustment x 1.86 sf x 3 Rows = 170.3 cf Chamber Storage 1,251.3 cf Field - 170.3 cf Chambers = 1,080.9 cf Stone x 40.0% Voids = 432.4 cf Stone Storage Chamber Storage + Stone Storage = 602.7 cf = 0.014 af Overall Storage Efficiency = 48.2% Overall System Size = 32.50' x 12.00' x 3.21'





SUBSURFACE DRAINAGE AREA #3A



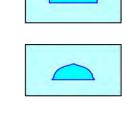
20' LONG INFILTRATION TRENCH

Type III 24-hr 100-Year Rainfall=8.68" 817 Country Way Post Prepared by Grady Consulting LLC
HydroCAD® 10.20-2g s/n 09955 © 2022 HydroCAD Software Solutions LLC Pond SSD4: SUBSURFACE DRAINAGE AREA #4 - Chamber Wizard Field B

Chamber Model = Cultec C-100HD (Cultec Contactor® 100HD)
Effective Size= 32.1"W x 12.0"H => 1.86 sf x 7.50'L = 14.0 cf Overall Size= 36.0"W x 12.5"H x 8.00'L with 0.50' Overlap Row Length Adjustment= +0.50' x 1.86 sf x 1 rows 1 Chambers/Row x 7.50' Long +0.50' Row Adjustment = 8.00' Row Length +15.0" End Stone x 2 = 10.50'

Base Length
1 Rows x 36.0" Wide + 18.0" Side Stone x 2 = 6.00' Base Width
12.0" Stone Base + 12.5" Chamber Height + 14.0" Stone Cover = 3.21' Field Height 1 Chambers x 14.0 cf +0.50' Row Adjustment x 1.86 sf x 1 Rows = 14.9 cf Chamber Storage 202.1 cf Field - 14.9 cf Chambers = 187.2 cf Stone x 40.0% Voids = 74.9 cf Stone Storage Chamber Storage + Stone Storage = 89.8 cf = 0.002 af Overall Storage Efficiency = 44.4% Overall System Size = 10.50' x 6.00' x 3.21'

7.5 cy Field



SUBSURFACE DRAINAGE AREA #4B

817 Country Way Post Type III 24-hr 100-Year Rainfall=8.68" Prepared by {enter your company name here}
HydroCAD® 10.00-21 s/n 09955 © 2018 HydroCAD Software Solutions LLC Pond SSD3: SUBSURFACE DRAINAGE AREA #3 - Chamber Wizard Field B Chamber Model = Cultec R-330XLHD (Cultec Recharger® 330XLHD)
Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 2 rows

52.0" Wide + 6.0" Spacing = 58.0" C-C Row Spacing 3 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 22.50' Row Length +33.0" End Stone x 2 = 28.00' Base Length
2 Rows x 52.0" Wide + 6.0" Spacing x 1 + 20.0" Side Stone x 2 = 12.50' Base Width 6.0" Base + 30.5" Chamber Height + 6.0" Cover = 3.54' Field Height

6 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 2 Rows = 335.3 cf Chamber Storage 1,239.6 cf Field - 335.3 cf Chambers = 904.3 cf Stone x 40.0% Voids = 361.7 cf Stone Storage Chamber Storage + Stone Storage = 697.0 cf = 0.016 af Overall Storage Efficiency = 56.2% Overall System Size = 28.00' x 12.50' x 3.54'

33.5 cy Stone

817 Country Way Post

23.3 cy Field 18.6 cy Stone

Prepared by {enter your company name here} HydroCAD® 10.00-21 s/n 09955 © 2018 HydroCAD Software Solutions LLC

Chamber Model = Cultec R-330XLHD (Cultec Recharger® 330XLHD)
Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap

Base Length
2 Rows x 52.0" Wide + 6.0" Spacing x 1 + 23.0" Side Stone x 2 = 13.00' Base Width

2 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 2 Rows = 126.7 cf Chamber Storage

629.2 cf Field - 126.7 cf Chambers = 502.6 cf Stone x 40.0% Voids = 201.0 cf Stone Storage

Row Length Adjustment= +1.50' x 7.45 sf x 2 rows

52.0" Wide + 6.0" Spacing = 58.0" C-C Row Spacing

Chamber Storage + Stone Storage = 327.7 cf = 0.008 af Overall Storage Efficiency = 52.1% Overall System Size = 13.67' x 13.00' x 3.54'



Pond SSD3: SUBSURFACE DRAINAGE AREA #3 - Chamber Wizard Field C

1 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 8.50' Row Length +31.0" End Stone x 2 = 13.67'

Type III 24-hr 100-Year Rainfall=8.68"

Printed 1/20/2023

Prepared by Grady Consulting LLC HydroCAD® 10.20-2g s/n 09955 © 2022 HydroCAD Software Solutions LLC Pond SSD1: SUBSURFACE DRAINAGE AREA #1 - Chamber Wizard Field A Chamber Model = Cultec R-330XLHD (Cultec Recharger® 330XLHD) Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 10 rows 52.0" Wide + 4.0" Spacing = 56.0" C-C Row Spacing 16 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 113.50' Row Length +12.0" End Stone x 2 = 115.50' Base Length 10 Rows  $\times$  52.0" Wide + 4.0" Spacing  $\times$  9 + 22.0" Side Stone  $\times$  2 = 50.00' Base Width 6.0" Stone Base + 30.5" Chamber Height + 6.0" Stone Cover = 3.54' Field Height 160 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 10 Rows = 8,456.9 cf Chamber Storage 20,453.1 cf Field - 8,456.9 cf Chambers = 11,996.2 cf Stone x 40.0% Voids = 4,798.5 cf Stone Storage Chamber Storage + Stone Storage = 13,255.4 cf = 0.304 af Overall Storage Efficiency = 64.8% Overall System Size = 115.50' x 50.00' x 3.54' 757.5 cy Field 444.3 cy Stone

817 Country Way Post

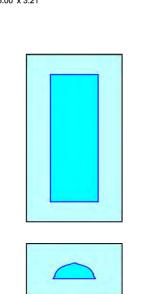
SUBSURFACE DRAINAGE AREA #1

817 Country Way Post Type III 24-hr 100-Year Rainfall=8.68" Prepared by Grady Consulting LLC HydroCAD® 10.20-2g s/n 09955 © 2022 HydroCAD Software Solutions LLC Pond SSD4: SUBSURFACE DRAINAGE AREA #4 - Chamber Wizard Field C Chamber Model = Cultec C-100HD (Cultec Contactor® 100HD)
Effective Size= 32.1"W x 12.0"H => 1.86 sf x 7.50'L = 14.0 cf

Overall Size= 36.0"W x 12.5"H x 8.00'L with 0.50' Overlap Row Length Adjustment= +0.50' x 1.86 sf x 1 rows 1 Chambers/Row x 7.50' Long +0.50' Row Adjustment = 8.00' Row Length +15.0" End Stone x 2 = 10.50' Base Length
1 Rows x 36.0" Wide + 18.0" Side Stone x 2 = 6.00' Base Width 12.0" Stone Base + 12.5" Chamber Height + 14.0" Stone Cover = 3.21' Field Height 1 Chambers x 14.0 cf +0.50' Row Adjustment x 1.86 sf x 1 Rows = 14.9 cf Chamber Storage 202.1 cf Field - 14.9 cf Chambers = 187.2 cf Stone x 40.0% Voids = 74.9 cf Stone Storage

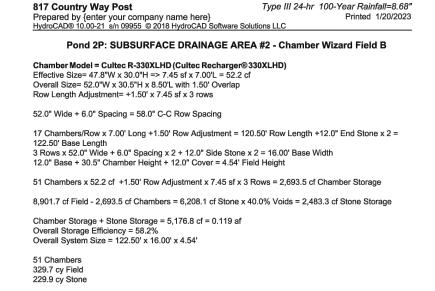
Chamber Storage + Stone Storage = 89.8 cf = 0.002 af Overall Storage Efficiency = 44.4% Overall System Size = 10.50' x 6.00' x 3.21'

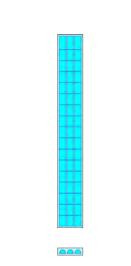
6.9 cy Stone



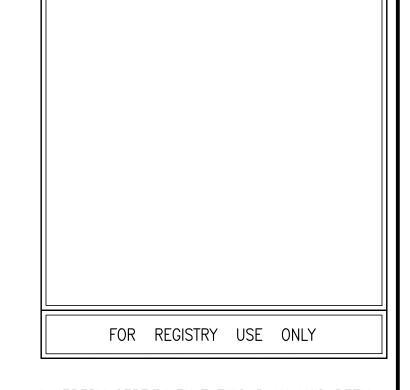
SUBSURFACE DRAINAGE AREA #4C

SUBSURFACE DRAINAGE AREA #3C





SUBSURFACE DRAINAGE AREA #2



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

TIMOTHY R. BENNETT P.L.S. #36	8856 DA
SITE PLAN APPROVED DATE:	

SCITUATE PLANNING BOARD



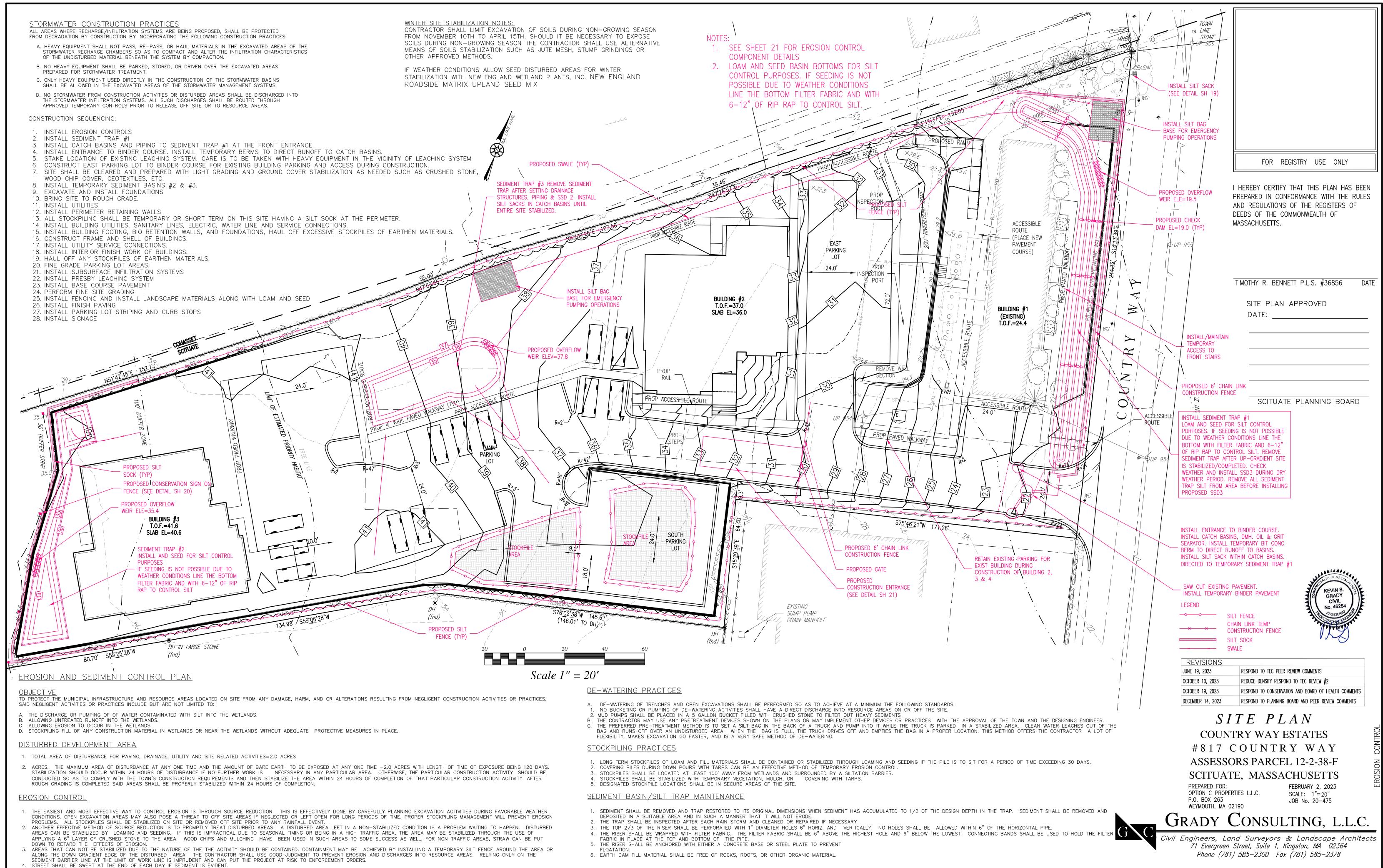
REVISIONS JUNE 19, 2023 RESPOND TO TEC PEER REVIEW COMMENTS OCTOBER 10, 2023 REDUCE DENSITY RESPOND TO TEC REVIEW #2 OCTOBER 19, 2023 RESPOND TO CONSERVATION AND BOARD OF HEALTH COMMENTS DECEMBER 14, 2023 RESPOND TO PLANNING BOARD AND PEER REVIEW COMMENTS

SITE PLANCOUNTRY WAY ESTATES #817 COUNTRY WAY **ASSESSORS PARCEL 12-2-38-F** SCITUATE, MASSACHUSETTS

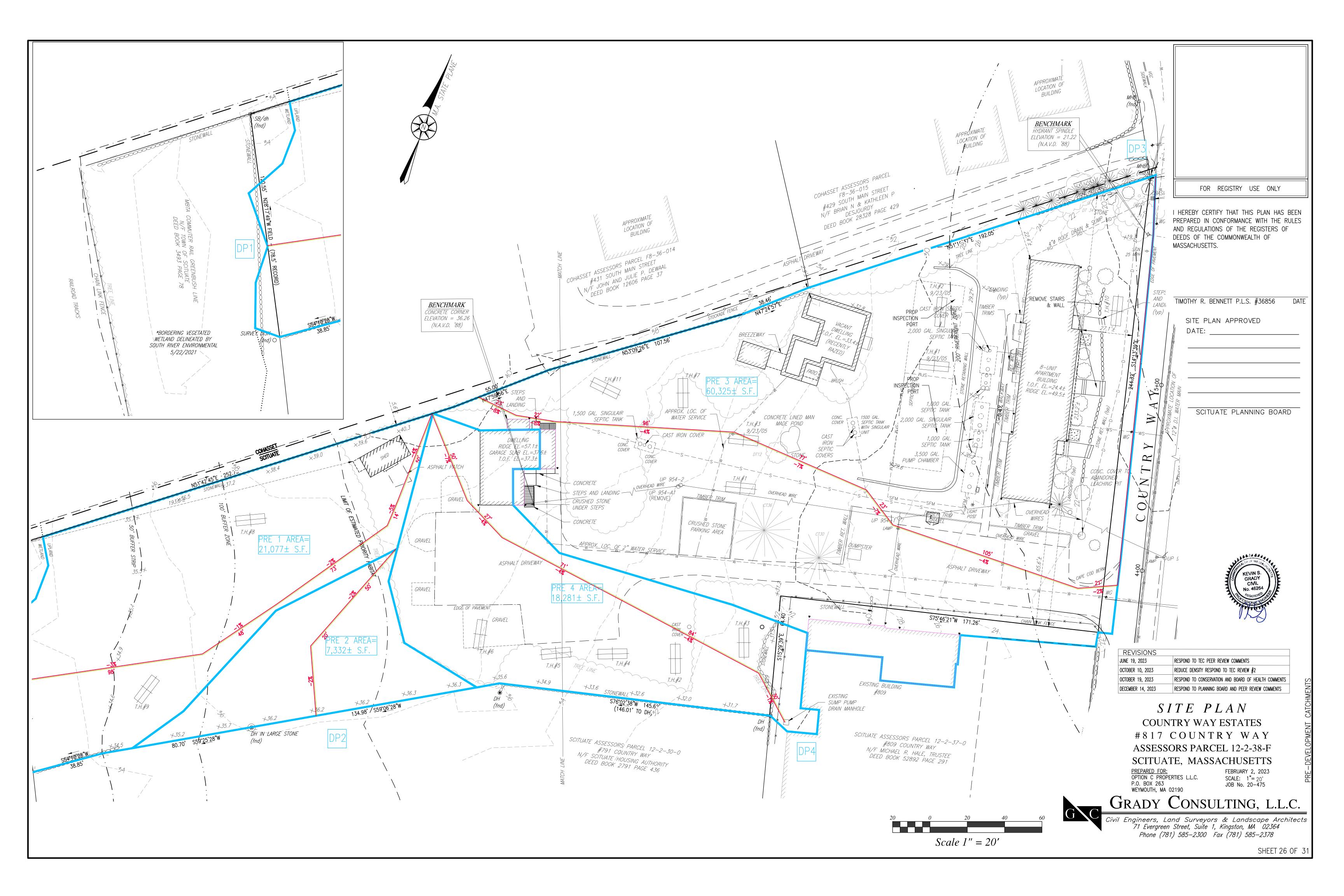
PREPARED FOR:
OPTION C PROPERTIES L.L.C. FEBRUARY 2, 2023 SCALE: NTS P.O. BOX 263 JOB No. 20-475 WEYMOUTH, MA 02190

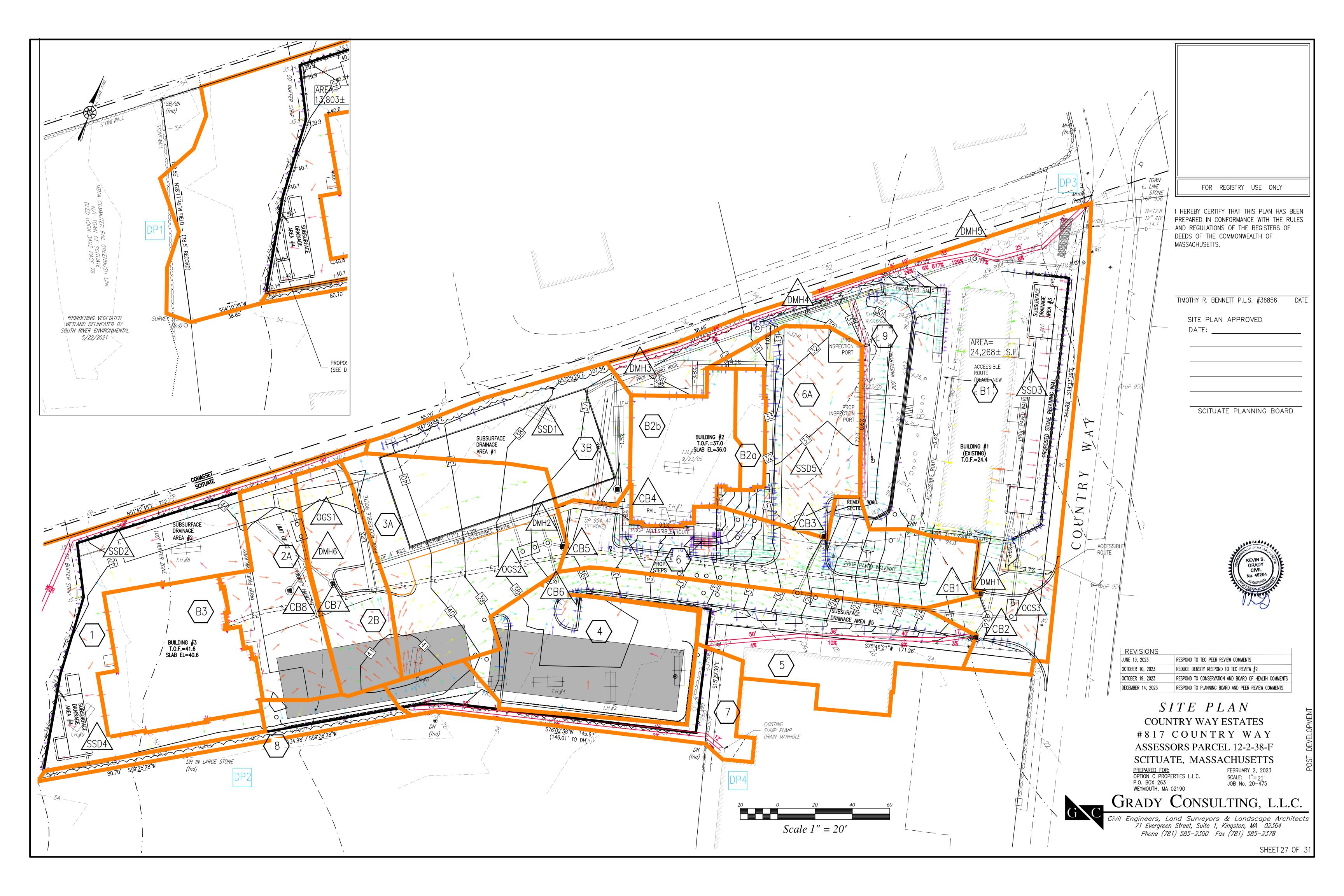
Civil Engineers, Land Surveyors & Landscape Architects 71 Evergreen Street, Suite 1, Kingston, MA 02364 Phone (781) 585-2300 Fax (781) 585-2378

SHEET 24 OF 31



SHFFT 25 OF 3





LEGEND **EXISTING DESCRIPTION** \_\_\_\_\_ CONTOUR SPOT ELEVATION N89°53'51"E 96.00' N89°53′51″E 96.00′ PROPERTY LINE - N89° 53'5|"E 96.00' EASEMENT LINE \_\_\_\_\_CONCRETE CONCRETE \_\_\_\_\_ EDGE\_OF\_PAVEMENT\_\_\_\_\_ \_\_\_ EDGE\_OF\_PAVEMENT ---- EDGE OF GRAVEL EDGE OF GRAVEL BRICK WALKWAY BRICK WALK RETAINING WALL RETAINING WALL FACE OF WALL WATER SERVICE WATER LINE UTILITIES - WATER ullet  $\oplus$   $_{WG}$ WATER GATE + ⊕ <sub>WG</sub> FIRE SERVICE ф**ф** GAS LINE ullet  $\otimes$   $_{GG}$ GAS GATE ◆ GG ⊗ GAS METER METER ---- CATV<sup>CABLE</sup> CATV ----—— CATV<sup>CABLE</sup> CATV —— UTILITIES - ELECTRIC - ELECTRIC & TELEPHONE ———— <u>ELEG</u>ZEL CABLE —ETC —— ELECTRIC SERVICE UNDERGROUND ELECTRIC SERVICE \_\_\_\_\_ OVERHEAD WIRE OVERHEAD WIRE OVERHEAD WIRE OVERHEAD ELECTRIC OVERHEAD ELECTRIC WIRE OVERHEAD ELECTRIC UNDERGROUND TELECOM ↑ \* ☆ AREA LIGHT **↑** \* \$ → UP UTILITY POLE *→ UP* SEWER LINE ----- -- SEWER-LINE---S-----SEWER FORCE MAIN ○ SMH SEWER MANHOLE OSMH 000 SEPTIC TANK 000 TEST HOLE TH#1 □ MW MONITORING WELL

DRAIN MANHOLE

CATCH BASIN

DRAIN LINE

ROOF DRAIN

FLARED END SECTION

STONE WALL

FOUNDATION DRAIN

STONEWALL SOME

UTILITIES – DRAINAGE

O DMH

⊞ *CB* ●

 $\triangleleft$  FES

SOSSET STONEWALLS

	>>>>==================================	STONE WALL	STONEWALL
		STONE WALL	COCCESTENEIVALES COCCES
_	EXIST. CHAIN LINK		
_	EXIST. POST &	. FENCE	CHAIN LINK
	EXIST! ESHOCKADE_		FENCE AND
	EXISTE GUARD RAIL	GUARDRAIL	<u> </u>
		EROSION CONTROL	
	<i>FEM</i> A	100YR FEMA FLOOD PLAIN	
	100'. <u>WETLA</u> ND. BUF <u>FFR</u>		
		100 FT WETLAND BUFFER	
	50 <u>' WE</u> TLAN <u>D_BUF</u> FER	50 FT WETLAND BUFFER	
<b>8</b>			
<b>₹</b>		TOP OF BANK	
×	UPLAND WETLAND	WETLAND LINE	
		STREAM	
$\overline{\bot}$	****	MARSH	
T.A	* 18"PINE B HEDGE  18"OAK  REE LINE	LANDSCAPING	
		TREE LINE	· · · · · · · · · · · · · · · · · · ·
	<b>&amp;</b> 12 SPACES	PARKING	
		TRAFFIC MARKINGS	
	DUMPSTER	DUMPSTER	
	EXISTING BUILDING	EXISTING BUILDING	
L	RR TRACK	DOORWAY	
	∫ → SIGN	SIGN	
	● BOLLARD	BOLLARD	
		MAILBOX	
	<b>⊕</b> SB	BORING	
	•	STAKEOUT BEANPOLE	



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

TIMOTHY R. BENN	IETT P.L.S. #36856	DAT
SITE PLAN	APPROVED	

[	DATE:			

SCITUATE PLANNING BOARD



REVISIONS	
JUNE 19, 2023	RESPOND TO TEC PEER REVIEW COMMENTS
OCTOBER 10, 2023	REDUCE DENSITY RESPOND TO TEC REVIEW #2
OCTOBER 19, 2023	RESPOND TO CONSERVATION AND BOARD OF HEALTH COMMENTS
DECEMBER 14, 2023	RESPOND TO PLANNING BOARD AND PEER REVIEW COMMENTS

SITE PLAN

COUNTRY WAY ESTATES

#817 COUNTRY WAY

ASSESSORS PARCEL 12-2-38-F

SCITUATE, MASSACHUSETTS

PREPARED FOR: FEBRUARY 2, 2023
OPTION C PROPERTIES L.L.C. FEBRUARY 2, 2023
SCALE: 1"=20'

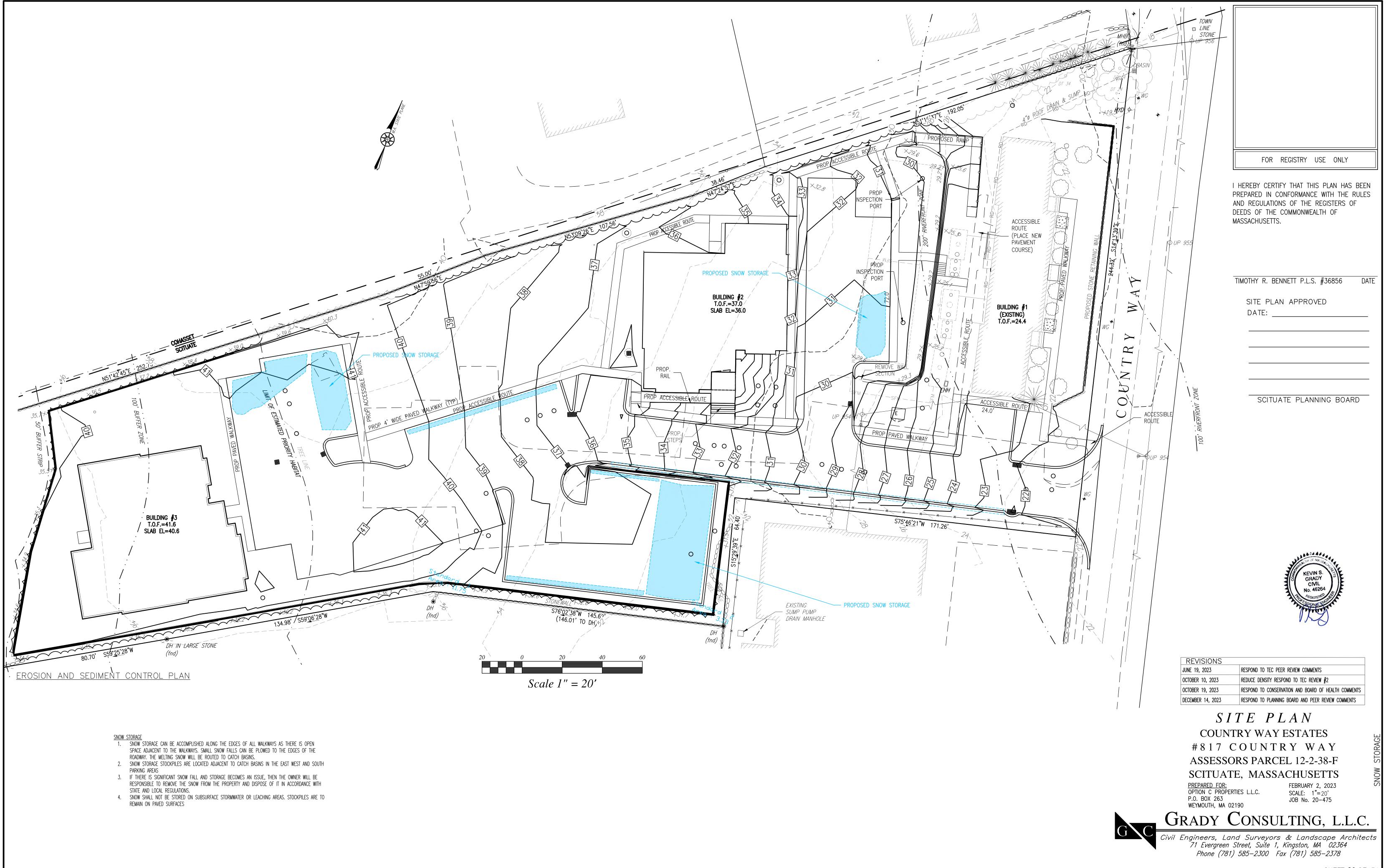
OPTION C PROPERTIES L.L.C.

P.O. BOX 263
WEYMOUTH, MA 02190

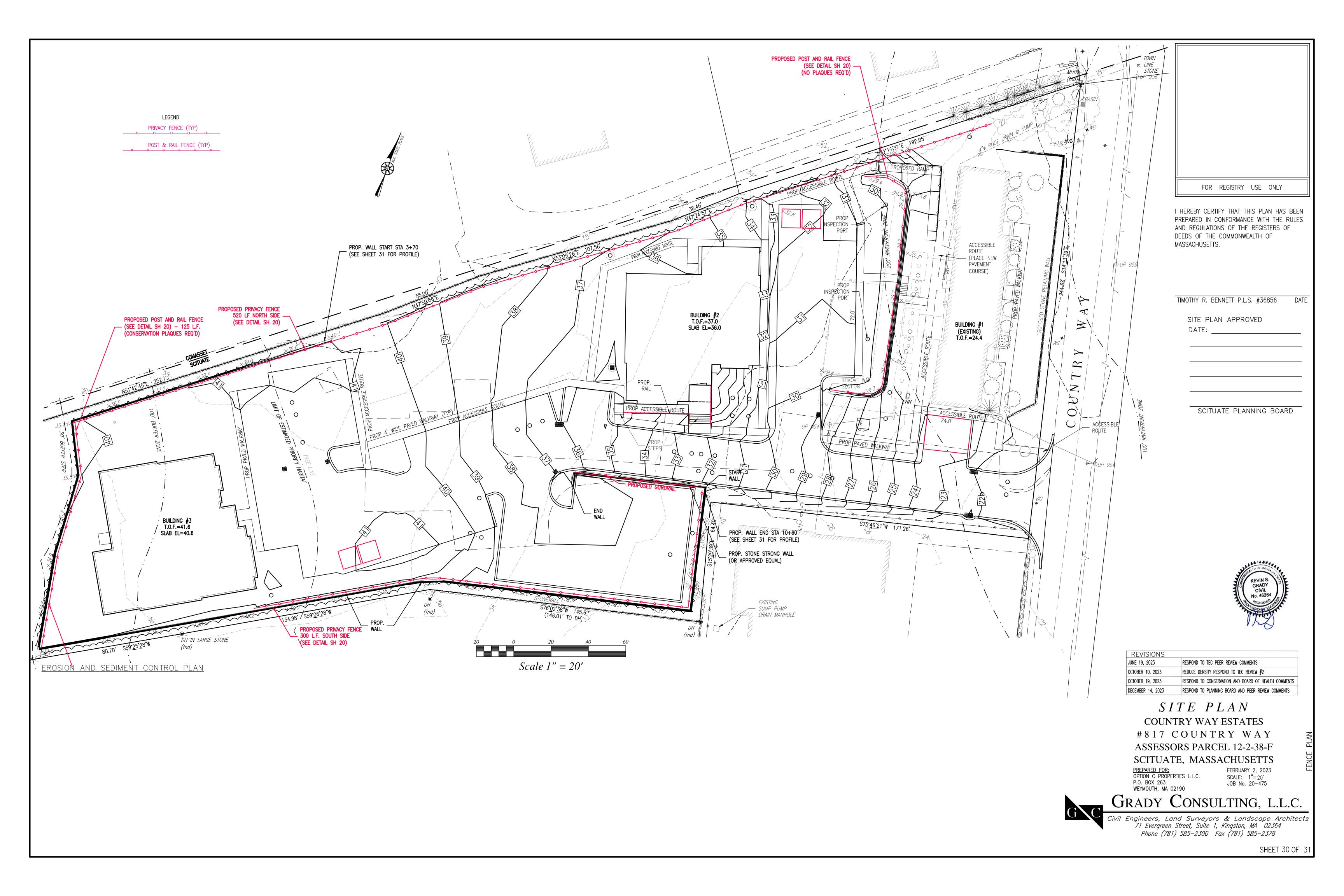
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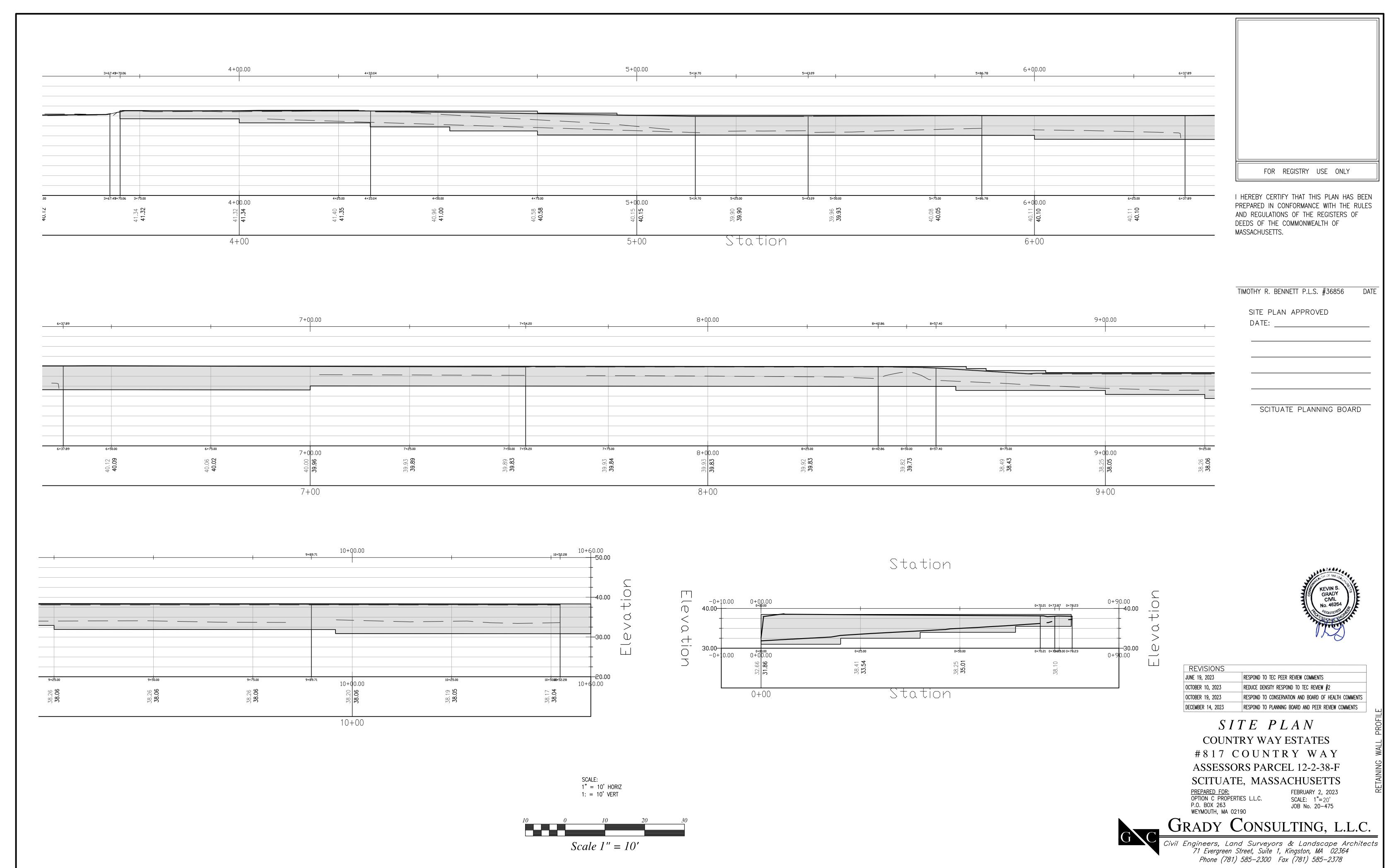


Civil Engineers, Land Surveyors & Landscape Architects 71 Evergreen Street, Suite 1, Kingston, MA 02364 Phone (781) 585–2300 Fax (781) 585–2378



SHEET 29 OF 31





SHEET 31 OF 31