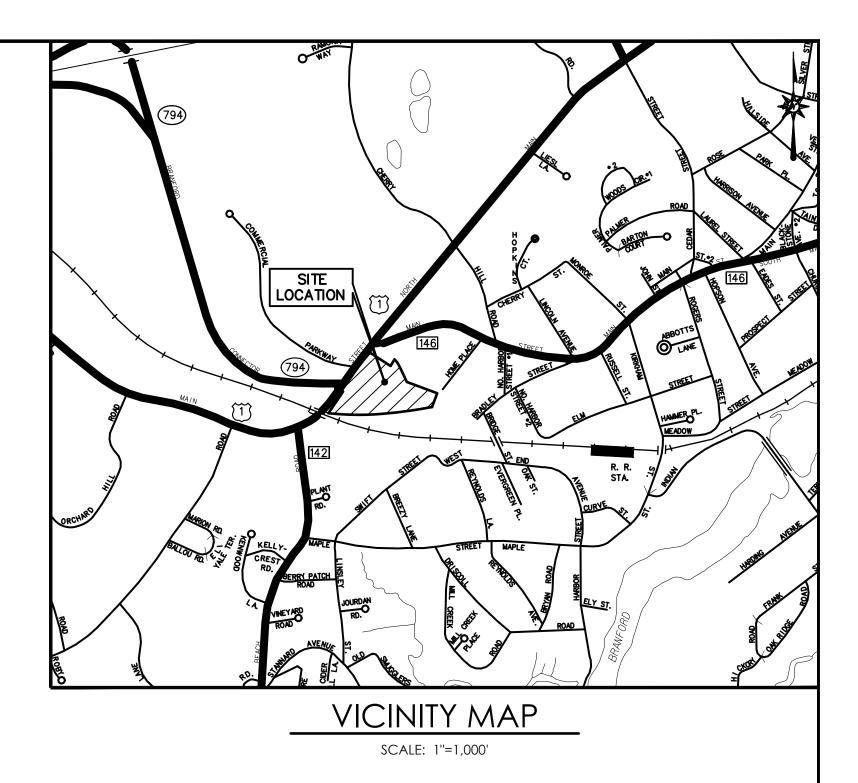


LAND DEVELOPMENT PLANS ISSUED FOR SITE PLAN AND COASTAL AREA MANAGEMENT APPLICATION

COMMERCIAL DEVELOPMENT MBL D08-000-001-00001 1151 WEST MAIN STREET BRANFORD, CONNECTICUT



PREPARED FOR:

SOUND DEVELOPMENT GROUP, LLC 5520 PARK AVENUE, SUITE M1-150 TRUMBULL, CT 06611

CONTENTS TITLE SHEET EX-1 PROPERTY/TOPOGRAPHIC SURVEY COASTAL AREA MANAGEMENT OVERALL SITE PLAN CAM-1 SP-1 SITE PLAN TT-1 TRUCK TURNING PLAN GD-0 OVERALL GRADING AND DRAINAGE PLAN GD-1 GRADING AND DRAINAGE PLAN GD-2 GRADING AND DRAINAGE PLAN SU-1 SITE UTILITIES PLAN EC-0 OVERALL PHASE I SEDIMENT AND EROSION CONTROL PLAN EC-1, 2 PHASE I SEDIMENT AND EROSION CONTROL PLAN EC-3 OVERALL PHASE II SEDIMENT AND EROSION CONTROL PLAN EC-4, 5 PHASE II SEDIMENT AND EROSION CONTROL PLAN EC-6 SEDIMENT AND EROSION CONTROL NOTES & DETAILS EC-7 SEDIMENT AND EROSION CONTROL DETAILS LL-1 LANDSCAPE PLAN LL-2 LANDSCAPE NOTES AND DETAILS LP-1 LIGHTING PLAN LP-2 LIGHTING NOTES AND DETAILS GN-1 **GENERAL NOTES** DN-1, 2, 3, 4, 5

PREPARED BY:



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OWNER:

DATES

ISSUE DATE: **REVISION:**

NOVEMBER 6, 2019 MARCH 23, 2020

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Δ_ ELO **DEV**TREET
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STAFF A.V./A.C. 1"=60'

15C5363 05/01/18 Field Book

CAD File: BS15C536301-COLOR

PROPERTY/ **TOPOGRAPHIC SURVEY**

Sheet No.

SITE UTILITIES LEGEND	
DDODEDTY LINE	
PROPERTY LINE LIMIT OF DISTURBANCE LINE AND	
CONTRACT LIMIT LINE	LOD
ELECTRIC LINE	—— E —— E ——
ELECTRIC AND TELECOMMUNICATIONS LINES	ETC
GAS LINE	
WATER LINE SANITARY SEWER LINE	ww
	s
TRANSFORMER	<u>T</u>
SANITARY MANHOLE	°co
SANITARY CLEANOUT	•
WATER VALVE	⊗ ^{WV}
HYDRANT	**
GATE VALVE	⊗ ^{GV}
THRUST BLOCK	4
OUTLET CONTROL STRUCTURE	•
HYDRODYNAMIC SEPARATOR	
STORM LINE	
CATCH BASIN	
STORM MANHOLE	0
PROPOSED CONTOUR LINE	228
PROPOSED SPOT GRADE	X 100.00
ABBREVIATIONS — TC=TOP OF CURB	TC=100.00
BC=BOTTOM OF CURB	X BC=99.50
TW=TOP OF WALLBW=BOTTOM OF WALLTRC=TOP OF ROCK CUT	TW=108.00 BW=100.00

NOTES

CONTRACTOR SHALL CONFIRM LOCATION, SIZE, CONDITION AND ELEVATION OF ALL UTILITY LATERAL STUBS, WATER MAINS, GAS MAINS AND ELECTRICAL SERVICES PRIOR TO CONSTRUCTION.

TRC=108.00

X BRC=100.00

2%

PROPOSED SURFACE SLOPE

- BRC=BOTTOM OF ROCK CUT

CONNECTION (RED) SANITARY CLEANOUT SANITARY INVERT AT BUILDING=23.60 PROVIDE AND INSTALL 4"X6" PVC PIPE INCREASER AT BUILDING PROVIDE AND INSTALL PROVIDE AND INSTALL 55 LF OF FIRE DEPARTMENT 6" SDR 35 PVC PIPE S=2.00% SPRINKLER CONNECTION **EXISTING 10-INCH** PROVIDE AND INSTALL - SANITARY MAIN SANITARY MANHOLE SMH-2 PROVIDE AND INSTALL FIRE— (BLUE) INV. IN: 22.54 HYDRANT, BOLLARDS, INV. OUT: 22.34 ASSOCIATED GATE VALVE, VALVE -PROVIDE AND INSTALL PROVIDE AND INSTALL SHALLOW BOX AND 6" DIP HYDRANT LATERAL COORDINATE WITH 42 LF OF 6" SDR 35 SANITARY MANHOLE SMH-1 TF: 24.50 PVC PIPE S=9.00% SCCRWA (TYP.) PROVIDE AND INSTALL INV. IN: 18.92 (NE) SANITARY CLEANOUT (TÝP.) NEW INV. IN (DROP): 16.80 PROVIDE AND INSTALL GAS— METER AND REQUIRED BOLLARDS. JNV. OUT: 16.60 (SW) PREPLACE EXISTING RIPRAP ABOVE SANITARY LATERAL COORDINATE WITH SOUTHERN -PROVIDE AND INSTALL ELECTRICAL SECONDARIES TO ONNECTICUT GAS COMPANY BUILDING. REFER TO BUILDING ELECTRICAL PLAN FOR REQUIREMENTS. CONDUCTOR AND CONDUIT INFORMATION. -PROVIDE AND INSTALL 66 LF OF 6" SDR 35 PVC PIPE \$=10.00% - CONNECT TO EXISTING SANITARY ROVIDE AND INSTALL MANHOLE EX-SMH-1 WITH OUTSIDE DROP CONNECTION ELECOMMUNICATIONS EX. TF: 17.25 ERVICES CONDUITS WITH EX. INV. IN: ±9.2 NEW INV.\IN: 10.00 SANITARY INVERT AT BUILDING=23.30-PROVIDE AND INSTALL 4"X6" PVC EX. INV. OUT: ±9.2 PROVIDE AND INSTALL CONCRETE
TRANSFORMER PAD AND REQUIRED PIPE INCREASER AT BUILDING COPPER DOMESTIC WATER SERVICE PROVIDE AND INSTALL CONCRETE-BOLLARDS, COORDINATE WITH EVERSOURCE. PROVIDE AND INSTALL 6" CLASS 52 D.I.P. HYDRANT LATERAL WITH TRANSFORMER PAD AND REQUIRED -PROVIDE AND INSTALL PRIMARY ELECTRICAL BOLLARDS. COORDINATE WITH SERVICE CONDUITS\WITH\PULL STRINGS. EVERSOURCE. THRUST BLOCKS AS REQUIRED PROPOSED ELECTRIC SWITCH GEAR BY OTHERS. COORDINATE WITH EVERSOURC -PROVIDE AND INSTALL TELECOMUNICATIONS SERVICE TO BUILDING. REFER TO BUILDING MEP PLANS FOR CABLE AND CONDUIT PROVIDE AND INSTALL 6" SANITARY MANHOLE SMH-4 TF: 27.45 ATE VALVE AND BOX -PROVIDE AND INSTALL 2" TYPE K COPPER PROVIDE AND INSTALL 6"X6"X6" TEE DOMESTIC WATER SERVICE LATERAL INV. IN: 21.26 -PROVIDE AND INSTALL 6" NV. OUT: 21.06 CLASS 52 D.I.P. FIRE SERVICE PROVIDE AND INSTALL ELECTRICAL -LATERAL WITH THRUST BLOCKS AND MECHANICAL TO BUILDING ELECTRICAL PLAN FOR JOINTS AND MEGALUG RETAINER GLANDS CONDUCTOR AND CONDUIT INFORMATION. -PROVIDE AND INSTALL GAS PROVIDE AND INSTALL -METER AND REQUIRED TELECOMUNICATIONS SERVICE TO BOLLARDS. COORDINATE WITH BUILDING. REFER TO BUILDING SOUTHERN CONNECTICUT GAS MEP PLANS FOR CABLE AND COMPANY REQUIREMENTS. CONDUIT INFORMATION PROVIDE AND INSTALL 102 LF OF --PROVIDE AND INSTALL PRIMARY ELECTRIC AND 6" SDR 35 PVC PIPE S=2.00% \ TELECOMMUNICATIONS SERVICES CONDUITS WITH PULL STRINGS. Watercourse #2 PROVIDE AND INSTALL PRIMARY ELECTRIC AND TELECOMMUNICATIONS SERVICES CONDUITS WITH PULL STRINGS. PROVIDE AND INSTALL 192-LF OF 6" SDR 35 PVC PIPE FRONTIER #5850 CONNECT TO EXISTING SANITARY MANHOLE EX-SMH-2 -PROVIDE AND INSTALL GAS SERVICE. TF = EX, TF: 25/0 EX, INV, IN; ±20.17 -PROVIDE AND INSTALL TYPE K COPPER COORDINATE WITH SOUTHERN 2" DOMESTIC WATER SERVICE CONNECTICUT GAS COMPANY. NEW INV. IN: 16.07 PROVIDE AND INSTALL 6" FIRE EX. INV. OUT: ±14.45 CONNECT TO EXISTING GAS MAIN. COORDINATE WITH SOUTHERN CONNECTICUT GAS COMPANY. PROTECTION LINE
PROVIDE AND INSTALL WATER METER PIT.
COORDINATE WITH RWA. West Main Street PULL ELECTRIC AND-TELECOMMUNICATIONS SERVICES FROM EXISTING UTILITY POLE PROVIDE AND INSTALL GAS SERVICE.
COORDINATE WITH SOUTHERN CONNECTICUT GAS COMPANY. -CONNECT TO EXISTING GAS MAIN. COORDINATE WITH SOUTHERN CONNECTICUT GAS COMPANY. TF = 17.3PROVIDE AND INSTALL 2" CORPORATION STOP AND VALVE AND BOX |NV=27.50|/NV(S)=PROPOSED DBL"C"CB PROVIDE AND INSTALL TAPPING - Storm MH Storm MH -SANITARY LATERAL SLEEVE 6" GATE VALVE AND BOX TF = 19.43TF=18.14 EXISTING 8" WATER MAIN INV = 13.70CONNECTION (RED) /NV = 12.7 $99^{\lambda} \ln v(W) = 12.4$ Message Board -/NV = 13.55lnv(N) = 11.4Storm MH -

REFER TO SHEET GN-1 FOR SITE WORK GENERAL NOTES

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION SCALE IN FEET

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PROPOSED

-PROVIDE AND INSTALL

TF=17.58 INV(E) = 12.95

INV(N) = 13.69

|NV(S)=12.93

SANITARY LATERAL

COMMERCIAL DEVELO
1151 WEST MAIN STREET
RANFORD, CONNECTICUT 0 O

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Designed Drawn Reviewed Project No. 11/6/2019 CAD File: SU190171601

H.J.L.

J.J.S.

1"=40'

1901716

UTILITIES PLAN

Sheet No.

SU-1

DESIGN FLOW = AVERAGE DAILY FLOW X PEAKING FACTOR

"If land use being proposed is not included in either table 4.1 or table 4.2, engineering judgement may be used to estimate the flow" section 4.2.1.a of the GNHWPCA Permitting and design criteria manual PEAKING FACTOR = 4 (SECTION 4.2.2 OF THE GNHWPCA PERMITTING AND DESIGN CRITERIA MANUAL)

AVERAGE DAILY FLOW (ADF) (values taken from table 4.1 in the GNHWPCA Permitting and Design Criteria Manual

BUILDING	AREA OF BLDG (SF)	TYPE OF DEVELOPMENT	UNIT	ADF(GPD/UNIT)	ADF (GPD)	AVERAGE ADF (GPD)	PEAKING FACTOR	DESIGN FLOW (GPD)
CHASE BANK	3356	OFFICE BUILDING	1000 GROSS SQUARE FEET	200	671.2	503.4	4	2013.6
		STORES, SHOPPING CENTERS, AND MALLS	1000 GROSS SQUARE FEET	100	335.6			
ALDIS SUPER MARKET	19210	CONVENIENCE STORE, WITHOUT FOOD PREPARATION	1000 GROSS SQUARE FEET	300	5763	5763	4	23052
			1000 GROSS SQUARE FEET		0			
TOTAL								25065.6