TOWN OF STERLING, MASSACHUSETTS MAPLE STREET SIDEWALK IMPROVEMENTS



LOCATION MAP NOT TO SCALE



READING, MA | BOSTON, MA | FOXBOROUGH, MA | WORCESTER, MA | WILMINGTON, MA | CATAUMET, MA | CATAUMET, MA | SOUTH YARMOUTH, MA | SOUTH YARMOUTH, MA | BORTSMOUTH, NH | MANCHESTER, NH | RAYMOND, NH I WATERBURY, VT | ROCKY HILL, CT | ALBANY, NY | MOUNT KISCO, NY | PHILADELPHIA, PA | TOWSON, MD | MCLEAN, VA I CARY, NC | NORTH CHARLESTON, SC | COLUMBIA, SC | FORT MYERS, FL



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Consultan

CHAPPELL ENGINEERING OCIATES.

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G000 G001

G000
G001
C101 - C102
C201 - C202
C301 - C302
C401 - C403
C501 - C502



Issued Date:



Know what's **below. Call** before you dig.

Issued For

BIDDING

08/02/2023

GENERAL NOTES:

- 1. TOPOGRAPHICAL INFORMATION BASED ON AN ON THE GROUND SURVEY PERFORMED BY CHAPPELL ENGINEERING SEPTEMBER 2022.
- 2. THE HORIZONTAL COORDINATES ARE BASED ON NAD 83, THE VERTICAL DATUM IS NAVD 88.
- 3. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL DIG TEST PITS WITH THE LOCATIONS BEING APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK TO EXACTLY LOCATE EXISTING UTILITES.
- 4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHEI TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER. ANY ALTERATIONS SHALL BE INCIDENTAL TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY SUPPORT OF ALL UTILITIES TO REMAIN IN PLACE AND SHALL DESCRIBE IN WRITING, TO THE SATISFACTION OF THE ENGINEER, HIS METHOD OF TEMPORARY SUPPORT.
- 6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 7. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET (R&R)".
- 8. ALL EXISTING STATE, COUNTY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.
- 9. ALL EXCESS MATERIAL FROM ROADWAY RECONSTRUCTION OR THE EXCAVATION PROCESS SHALL BE REUSED ON SITE OR REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
- 10. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE TOWN PRIOR TO EXCAVATION.
- 11. JOINTS BETWEEN HOT MIX ASPHALT TRENCH PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.
- 12. THE CONTRACTOR SHALL BE AWARE THAT ONLY TOWN PERSONNEL ARE ALLOWED TO OPERATE WATER GATES AND HYDRANTS. ANY REQUESTS TO OPERATE THE GATES SHALL BE COORDINATED THROUGH THE ENGINEER.
- 13. THE CONTRACTOR SHALL COORDINATE ANY WORK FOR THE PROJECT WITH ALL ADJACENT/CONCURRENT PROJECTS AND CONTRACTORS.
- 14. THE CONTRACTOR SHALL INSTALL PRIOR TO COMMENCEMENT OF WORK, MAINTAIN, AND REMOVE AT THE END OF THE PROJECT INLET SEDIMENT CONTROL BAGS IN ALL CATCH BASINS, WITHIN OR ADJACENT TO THE PROJECT LIMITS. THE CONTRACTOR SHALL ALSO MAINTAIN SILT FENCE AND COMPOST FILTER TUBES AS SHOWN ON THE PLANS THROUGHOUT THE DURATION OF THE PROJECT AND REMOVE AT THE END.
- 15. ANY GRASS AREAS DISTURBED BY THE WORK SHALL BE RESTORED WITH LOAM AND SEED.
- 16. CONTRACTOR TO COORDINATE WITH UTILITY POLE OWNERS IN AREAS WHERE UNDERGROUND UTILITY WORK IS WITHIN CLOSE PROXIMITY AND POSSIBLE UTILITY POLE SHORING IS REQUIRED WHILE INSTALLING PROPOSED UTILITIES.
- 17. THE CONTRACTOR SHALL RAISE AND ADJUST FRAMES AND GRATES, FRAMES AND COVERS AND GATE BOXES PRIOR TO PAVEMENT OVERLAY, IF REQUIRED.

		DECODIDITION	GENE
EXISTING	PROPOSED	DESCRIPTION	
⊞ ⊕ ⊞ CB	CB		ABAN
			ADJ
	Ø FP		
			B
			BIT
			B.M.
ð WFLI	H WELL	WELL	BO
• EHH	□ EHH	ELECTRIC HANDHOLE	CEM
\bigcirc	0	FENCE GATE POST	CLF
o GG	O GG	GAS GATE	CONC
● BHL #	BHL #	BORING HOLE	
↔ MW #		MONITORING WELL	EQ
■ TP #	■ TP #	TEST PIT	EXIST.(OR EX.)
	ф N	HYDRANT	FDN
*	來		FF FL (OR F)
			G.C.
C	C		GRAN. CURB
	0	DRAINAGE MANHOLE	H.C. HMA
E	Ē	ELECTRIC MANHOLE	L.O.W.
G	G	GAS MANHOLE	LSA
M	M	MISC MANHOLE	MB
S	S	SEWER MANHOLE	M.H.B. MSRW
	T	TELEPHONE MANHOLE	NIC
w	$\textcircled{\textbf{w}}$		N.T.S
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND	R
U MUN			PROT
⊔ JD ∎ TR			PVMT
		TRAVERSE OR TRIANGULATION STATION	P.W.W.
TPL or GUY	- TPL or GUY	TROLLEY POLE OR GUY POLE	RC REM
• HTP		TRANSMISSION POLE	REMOD
-6- UFB	_&_ UFB	UTILITY POLE W/ FIREBOX	RET
∮- UPDL	-∲- UPDL	UTILITY POLE WITH DOUBLE LIGHT	R.O.W.
δ ULT	_ճ– ULT	UTILITY POLE W / 1 LIGHT	R&D R&R
UPL	-∽- UPL	UTILITY POLE	R,R&R
		BUSH	R&S
SIZE & IYPE			RRFB
		STUMP SWAMP / MARSH	SB/DH
• WG	• WG	WATER GATE	SGC
• PM	• PM	PARKING METER	SW
·		- OVERHEAD CABLE/WIRE	SWL
		- CURBING	TBM
0		- CONTOURS	TEMP.
		– UNDERGROUND DRAIN PIPE	TYP.
			VIF
			WCR
		- UNDERGROUND SEWER MAIN	
		- UNDERGROUND WATER MAIN	וידון
000000000000000000000000000000000000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	> BALANCED STONE WALL	UTIL
		- GUARD RAIL - STEEL POSTS	ACCM PIPE
<u> </u>	<u></u>	- GUARD RAIL - WOOD POSTS	BGS
X	x	- CHAIN LINK OR METAL FENCE	GICI
0	o	- WOOD FENCE	CBCI
		- COMPOST FILTER TUBE	CI
			CI
	·		CIP
			CMP
		LIVIT OF EDGE OF FAVEIVIENT OK GOLD PLAINE AND OVEKLAY BANK OF RIVER OR STREAM	CO
		BORDER OF WETLAND	CTE
		100 FT WETLAND BUFFER	
· ·		200 FT RIVERFRONT BUFFER	DNIN
		- STATE HIGHWAY LAYOUT	F&C
		- TOWN OR CITY LAYOUT	F&G
		- COUNTY LAYOUT	F&I GALV
		- RAILROAD SIDELINE	GI
			GV
₽		PROPERTY LINE OR APPROXIMATE PROPERTY LINE	GW
		- EASEIVIEINI - LIMIT OF WORK	HUPE HH
	SL	STOP LINE	HYD
			INV. ELEV.
			LB
			LU I G
			LP
			OCS
			OGT
			PVC
			RCP
			SMH
			SWTU

ABBREVIATIONS

RAL

ABANDON ADJUST BC BW ALTERNATE CC **APPROXIMATE** ELEV BASELINE BITUMINOUS H.P. L.P. **BENCH MARK** PC BY OTHERS BROKEN WHITE LINE PCC CEMENT ΡI ΡT CHAIN LINK FENCE CONCRETE PRC CONNECT TO EXISTING PVC EDGE OF PAVEMENT PVI EQUIPMENT PVT EXISTING R FOUNDATION STA FINISHED FLOOR S.S.D. FLOW LINE TC GENERAL CONTRACTOR ΤW **GRANITE CURB** HANDICAP HOT MIX ASPHALT LIMIT OF WORK LANDSCAPED AREA MAIL BOX MASSACHUSETTS HIGHWAY BOUND MASONRY RETAINING WALL NOT IN CONTRACT NOT TO SCALE PROPERTY LINE PROPOSED PROTECT PAVEMENT PAVED WATERWAY REINFORCED CONCRETE REMOVE REMODEL RETAIN **RIGHT-OF-WAY REMOVE AND DISPOSE REMOVE AND RESET** REMOVE, RELOCATED AND RESET REMOVE AND STACK **RECTANGULAR RAPID FLASHING BEACON** STONE BOUND STONE BOUND/ DRILL HOLE SLOPED GRANITE CURB SIDEWALK SOLID WHITE LINE SOLID YELLOW LINE **TEMPORARY BENCHMARK** TEMPORARY TYPICAL VERTICAL GRANITE CURB VERIFY IN FIELD WHEELCHAIR RAMP

TIES

UP

ULT

VC

WG

ASPHALT COATED CORRUGATED METAL PIPE **BELOW GRADE SURFACE GUTTER INLET W/ CURB INLET** CATCH BASIN CATCH BASIN W/ CURB INLET CURB INLET CAST IRON CAST IRON PIPE CHANGE IN TYPE CORRUGATED METAL PIPE CLEANOUT CONNECT TO EXISTING DUCTILE IRON PIPE DRAIN MANHOLE DOWN SPOUT FRAME AND COVER FRAME AND GRATE **FURNISH & INSTALL** GALVANIZED **GUTTER INLET** GATE VALVE GARAGE WASTE HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HYDRANT INVERT ELEVATION LEACHING BASIN LEACHING CHAMBER LEACHING GALLEY LIGHT POLE OUTLET CONTROL STRUCTURE OIL AND GRIT TRAP OVERHEAD WIRE POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE SEWER MANHOLE STORM WATER TREATMENT UNIT UTILITY POLE UTILITY POLE WITH LIGHT VITRIFIED CLAY PIPE WATER GATE

ALIGNMENT/GRADING

BOTTOM OF CURB BOTTOM OF WALL CENTER OF CURVE ELEVATION **HIGH POINT** LOW POINT POINT OF CURVATURE POINT OF COMPOUND CURVATURE POINT OF INTERSECTION POINT OF TANGENCY POINT OF REVERSE CURVATURE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY RADIUS OF CURVATURE STATION STOPPING SIGHT DISTANCE TOP OF CURB TOP OF WALL

Weston & Sampson Weston & Sampson Engineers, Inc. 100 Foxborough Boulevard, Suite 250 Foxborough, MA 02035 978,532,1900 800,SAMPSON www.westonandsampson.com Consultants: CHAPPELL ENGINEERING ASSOCIATES, LLC evisions No. Date Description COA: Seal JEFFREY W. SANTACRUCE CIVIL No. 50065 Issued For: BIDDING Scale: AS NOTED 08/02/2023 Date: Drawn By: CC EC Reviewed By: AKP Approved By: W&S Project No.: ENG22-0475 W&S File No.:

MAPLE STREET SIDEWALK

STERLING, MA 01564

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Drawing Title:

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NOTES

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sterling, MA\ENG22-0475 Maple Street Sidewalk\CAD_Current Design\PLANSET\220475_Construction Plan



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SURFACE



SECTION VIEW





- 1. CROSSWALK AND ADA-COMPLIANT RAMPS NOT SHOWN. SEE PLANS FOR
- LOCATIONS
- 2. REFER TO THE SPECIAL PROVISIONS FOR SIGN DIMENSIONS. 3. ALL CONDUIT, PULL BOXES, SERVICE CONNECTIONS, AND EQUIPMENT GROUNDING REQUIRED FOR AC POWER IS NOT SHOWN IN THIS DETAIL AND SHALL BE PAID FOR SEPARATELY UNDER THEIR RESPECTIVE PAY ITEMS.
- 4. ACCESS TO ALL PEDESTRIAN ACTUATED CONTROLS SHALL BE ADA/AAB COMPLIANT.
- 5. *0.5% CONSTRUCTION TOLERANCE FOR CROSS-SLOPE.







14 RECTANGULAR RAPID FLASHING BEACON (RRFB) (PROVIDED BY TOWN, INSTALLED BY GC) SCALE: N.T.S.



MAJOR ITEMS LIST:

- 2 CEMENT CONCRETE FOUNDATIONS PER 812.30.1
- 2 15' TRAFFIC SIGNAL POSTS & PEDESTALS
- 4 DUAL RECTANGULAR YELLOW LED BEACONS IN NEMA ENCLOSURES (SIGN AND APS BUTTON TO BE LOCATED AT 4-FOOT PEDESTAL AS NOTED ON SHEET 55)

- 2 SOLAR PANEL SYSTEMS (NOT REQUIRED FOR AC POWER) 2 NEMA ENCLOSURES FOR ALL COMPONENTS NEEDED TO MEET
- FUNCTIONAL REQUIREMENTS PER SPECIAL PROVISIONS
- 2 BATTERY SYSTEMS (NOT REQUIRED FOR AC POWER)

PLUS ALL MOUNTING AND SUPPORTING HARDWARE AND WIRING NECESSARY TO COMPLETE A WORKING SYSTEM.

CEMENT CONCRETE FOUNDATION

Project Project 978.5 Consu	t: MAPLE S STERL STERL Weston & Sa 100 Foxborou Foxbo 32. 1900 www.westa Iltants:	TREET SIDEWALK ING, MA 01564
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NOTES:

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS. 2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD. 3. PLACEMENT OF ALL CONSTRUCTION SIGNS, DRUMS, BARRICADES, TRAFFIC DEVICES AND THE SHAPE, SIZE & COLOR, LEGENDS, BORDERS, AND MOUNTING OF ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AMENDMENTS. 4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK. 5. ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH SHALL BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND RELOCATED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. 6. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL
- OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE ROAD OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- 7. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).

- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 8 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION. EXISTING PAVEMENT EXCAVATION. TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- 9. THE FIRST TEN PLASTIC DRUMS OF ANY TAPER SHALL BE EQUIPPED WITH SEQUENTIAL FLASHING LIGHTS.
- 10. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 11. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 12. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 13. PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
- 14. NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
- 15. THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER APPROVAL.
- 16. THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.



EXISTING EDGE OF PAVEMENT

NOTES:

- 1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
- 2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
- 3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
- 4. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
- 5. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE SHALL BE PROVIDED.

<u>SIDEWALK CLOSURE – PEDESTRIAN BYPASS</u> N.T.S.

TEMPORARY TRAFFIC SIGN SUMMARY

IDENTIFI-	SIZE O	F SIGN		
CATION NUMBER	WIDTH	HEIGHT	TEXT	NOTES
W20-1	48"	48"	ROAD WORK AHEAD	
W20-4	48"	48"	ONE LANE ROAD XXX	
W20-7	48"	48"		
R9-9	30"	18"	SIDEWALK CLOSED	



MOUNT ON TYPE III

- PEDESTRIAN PATH



(ONE LANE- BI-DIRE	CTION A
N.T.S.	
LEGEND	
REFLECTORIZED CHANNELIZING DEVICE	_●

	REFLECTORIZED CHANNELIZING DEVICE	
	REFLECTORIZED DRUM	
	TRAFFIC FLOW DURING CONSTRUCTION	
	NORMAL TRAFFIC FLOW	N.T.S.
ŗ	POLICE/FLAGGER DETAIL	•••
1	PORTABLE BREAKAWAY BARRICADE TYPE III	· · ·









EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL

DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN

MAPLE STREET SIDEWALK STERLING, MA 01564
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Weston & Sampson Engineers, Inc. 100 Foxborough Boulevard, Suite 250 Foxborough, MA 02035 978.532.1900 800, SAMPSON www.westonandsampson.com
CHAPPELL ENGINEERING ASSOCIATES, LLC
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