TOWN OF WAREHAM, MASSACHUSETTS WATER POLLUTION CONTROL WANKINQUOAH AVENUE SEWER REPAIR CONTRACT NO. 2023-002 NOVEMBER 2023



DEREK SULLIVAN

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TOWN ADMINSTRATOR

DIRECTOR OF WATER POLLUTION CONTROL



LOCATION MAP

PREPARED BY:



ISSUE DATE: NOVEMBER 21, 2023

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CI

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11 21 2023

REGISTERED PROFESSIONAL

DATE

XISTING FEATURES		ABBREVIATIONS	
====12" VC D====	DRAIN LINE	BIT.	BITUMINOUS
DS	DRAIN SERVICE	СВ	CATCH BASIN
===15" AC S====	SEWER LINE	CONC.	CONCRETE
- — — — SS — — — — — —	SEWER SERVICE	CBDISC	CONCRETE BOUND W/DISC
===8" CI W====		CBDH	CONCRETE BOUND W/DRILLH
8″ CI W -		CBN	CONCRETE BOUND W/NO DH
— — WS— — — — —		CMP	CORRUGATED METAL PIPE
-6" PE G	GAS LINE	DYL	DOUBLE YELLOW LINE
	GAS SERVICE	DH	DRILL HOLE
OHW	OVERHEAD WIRES	EOP	EDGE OF PAVEMENT
	PIPE CAPPED	EL., ELEV.	ELEVATION
$ \rightarrow$	PIPE CONTINUES BEYOND LIMITS SHOWN	FNC	FENCE
(SEWER MANHOLE	GS	GAS SERVICE
	DRAIN MANHOLE	GPL	GUY POLE
	CATCH BASIN	INV.	INVERT
\bigcirc	UTILITY POLE	IP	IRON PIPE
200	HYDRANT	IR	IRON ROD
\bowtie	WATER GATE	R	RISER ON UTILITY POLE
	TEE	SS	SEWER SERVICE
1	BEND	SMH	SEWER MANHOLE
	REDUCER	SWL	SOLID WHITE LINE
*50	CURB STOP	SYL	SOLID YELLOW LINE
WM O	WATER METER	STKD	STOCKADE
GG O	GAS GATE	STL	STOP LINE
<u> </u>	TRAFFIC SIGN	(JP	
	CURBING	W/S	WATER SER\/ICE
	PROPERTY LINE	PF	
X		MID	
	HOUSE / BUILDING STRUCTURE	STD	SIEEL DUCT
£	DECIDUOUS TREE	GALV.	GALVANIZED
	TREE LINE	CL	CEMENT LINED STEEL
- — 15 — — — — —	CONTOUR MAJOR	UNK.	UNKNOWN MATERIAL
· — 14 — — — — —	CONTOUR MINOR	CDF	CONTROLLED DENSITY FILL
×16.5	SPOT ELEVATION	SHLO	STATE HIGHWAY LAYOUT
⊡ SB/DH	STONE BOUND/ DRILLHOLE	ABD.	ABANDON / ABANDONED
O IP	IRON PIPE	CTE	CONNECT TO EXISTING
\bigtriangleup	TRAVERSE STATION	C&C	CUT & CAP
		R&D	REMOVE AND DISPOSE
OSED WORK		VIF	VERIFY IN FIELD
	SEWER LINE	MAT.	MATERIAL
	SEWER LINE (PIPE SCRIBING)	GRAN.	GRANITE
->>>>>>>>	SEWER LINE (BYPASS)	PK	PK NAIL
	WATER LINE	CI	CAST IRON
	SEWER SERVICE DIG AND REPLACE	VC, VCP	VITRIFIED CLAY (PIPE)
	WATER SERVICE DIG AND REPLACE	DI	
• •	TRANSITION COUPLING / SOLID SLEEVE (TYPE AS NOTED)	DICL	DUCTILE IRON CEMENT-LINF
•	HYDRANT	RC. RCP	REINFORCED CONCRETE (PIP
-	TEE	HNPF	
	· WATER GATE		
ı ₩		UF, UFF	
H H T	REDUCER	CLF	
➡ ₩]	REDUCER	CLF PROP.	PROPOSED
	REDUCER CAP STRAW WATTLE	CLF PROP. TYP.	PROPOSED
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REVISIONS

DATE MADE BY CHECKED BY

NUMBER

GENERAL NOTES

GENERAL

1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS FOR THIS CONTRACT. SEE SPECIFICATIONS FOR OTHER **REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.**

2. FOR ALL CONSTRUCTION, THE PUBLIC RIGHT-OF-WAY SHALL BE THE LIMIT OF DISTURBANCE. ALL SURFACES DAMAGED OUTSIDE OUTSIDE THE PUBLIC RIGHT-OF-WAY SHALL BE REPLACE IN KIND, AT THE CONTRACTORS EXPENSE.

3. THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE INDICATED LIMITS OF WORK AS SHOWN IN THE CONTRACT DRAWINGS. ALL SURFACES DAMAGED OUTSIDE THESE LIMITS BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

MAPPING

4. BASE MAPPING BASED ON SURVEY BY JC ENGINEERING, INC., 2854 CRANBERRY HIGHWAY, EAST WAREHAM, MA 02538 IN NOVEMBER 2021. BASE MAPPING IS SUPPLEMENTED BY GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA, DATA DIGITIZED FROM AERIAL, AND DATA COLLECTED VIA GPS BY BETA GROUP, INC.

5. VERTICAL DATUM IS NAVD88.

6. THE LOCATION, SIZE, AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST AVAILABLE SOURCES AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, UTILITIES OR STRUCTURES ARE SHOWN. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR IN FIELD.

7. EXISTING UTILITIES HAVE BEEN PLOTTED FROM THE BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY ALL UTILITY COMPANIES (PUBLIC AND PRIVATE). IN ADDITION, "DIG SAFE" MUST BE CONTACTED AT 1(888)-DIG-SAFE. CONTRACTOR TO CONTACT TOWN OF WAREHAM FOR THE LOCATION OF TOWN OF WAREHAM OWNED UTILITIES INCLUDING SEWER, WATER, DRAIN AND OTHER TOWN OWNED UTILITIES.

8. "AS-BUILT" DRAWINGS MAY BE EXAMINED AT THE TOWN OF WAREHAM ENGINEERING OFFICE. THE OWNER DOES NOT GUARANTEE THE CORRECTNESS OF THE CONTENTS OF THESE PLANS. THE CONTRACTOR IS CAUTIONED AGAINST RELYING SOLELY ON THE "AS-BUILTS" WITHOUT VERIFYING THE SAME BY FIELD INVESTIGATIONS.

EXISTING UTILITIES

9. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED AND SUPPORTED AT ALL TIMES BY THE CONTRACTOR. ALL EXISTING SERVICES TO BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO INTERFERE AS LITTLE AS POSSIBLE WITH EXISTING UTILITIES. PAYMENT FOR PROVIDING SAID PROTECTION AND SUPPORTS SHALL BE CONSIDERED A PART OF AND PAID FOR UNDER THE APPROPRIATE PIPE OR STRUCTURE ITEMS UNLESS OTHERWISE INDICATED AND/OR DIRECTED BY THE OWNER. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION BY REASON OF DELAY AND/OR INCONVENIENCE IN ADAPTING HIS OPERATIONS ACCORDINGLY.

10. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF DAMAGED UTILITIES CAUSED BY THE CONTRACTORS OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

REMOVAL AND DISPOSAL

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS INCLUDING BUT NOT LIMITED TO ALL GRIT AND DEBRIS FROM THE EXISTING STRUCTURES WHICH SHALL BE REMOVED AND DISPOSED OF AS INDICATED IN THE SPECIFICATIONS. ALL DEMOLITION MATERIAL INCLUDING CONCRETE, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MA DEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. NO TEMPORARY STORAGE WILL BE ALLOWED IN TOWN.

ASBESTOS CEMENT PIPE REMOVAL AND DISPOSAL

12. LOCATIONS WHERE EXISTING ASBESTOS CEMENT SEWER PIPE IS TO BE REMOVED HAVE BEEN DEPICTED ON THE DRAWINGS.

13. REQUIREMENTS FOR EXCAVATION, AND THE PROPER HANDLING, REMOVAL, TRANSPORT AND DISPOSAL OF ASBESTOS CEMENT PIPE ARE **INCLUDED IN SPECIFICATION SECTION 02076.**

SITE RESTORATION

14. EXCEPT WHERE NOTED BY PROPOSED CONTOUR LINES, ALL FINAL CONTOUR LINE ELEVATIONS SHALL BE THE SAME AS EXISTING CONTOUR LINE ELEVATIONS.

15. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.

16. THE CONTRACTOR SHALL REMOVE AND RESET ALL SIGNS DISTURBED DURING CONSTRUCTION, IN CONFORMANCE WITH THE MASSACHUSETTS STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS.

17. ALL GRASSED OR WOODED AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE LOAMED AND SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. FINAL RESTORATION SHALL BE EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION AS DETERMINED SOLELY BY THE OWNER/ENGINEER. PAYMENT SHALL BE CONSIDERED PART OF AND PAID FOR UNDER THE APPROPRIATE PIPE ITEMS AS APPLICABLE UNLESS OTHERWISE INDICATED.

MAINTENANCE OF EXISTING FLOWS

18. FLOW IN SANITARY SEWERS AND DRAINS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROVIDE BYPASS EQUIPMENT AS NECESSARY TO COMPLETE WORK. SEE SPECIFICATION 02149 MAINTAINING EXISTING FLOW, AND REFER TO DRAWING G-2 FOR CONCEPTUAL SEWER BYPASS PLAN.

19. THE CONTRACTOR SHALL PROVIDE TEMPORARY BYPASS EQUIPMENT, PIPING, FITTINGS AND APPURTENANCES NECESSARY TO COMPLETE THIS CONTRACT.

20. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY BYPASS-LINES UNTIL THE MODIFICATIONS AND CONSTRUCTION ARE COMPLETE.

21. BYPASS PIPING SHALL BE BURIED AT ALL DRIVEWAY AND WALKWAY ENTRANCES.

EXCAVATION SUPPORT, DEWATERING

22. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, DEEP WELLS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.

23. DISCHARGE FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED INTO THE SANITARY SEWER. ALL CONSTRUCTION DEWATERING SHALL HAVE SILT AND SEDIMENT REMOVED PRIOR TO DISCHARGE (SEE SPECIFICATIONS).



11 21 202



ITLE

CALE

SOIL EROSION AND SEDIMENTATION CONTROL

24. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED.

25. THE CONTRACTOR WILL BE REQUIRED TO INSTALL AND MAINTAIN EROSION CONTROL PROTECTION BAGS IN CATCH BASINS DURING CONSTRUCTION WITHIN THE LIMITS OF WORK AND AS DIRECTED BY THE ENGINEER.

26. ALL EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE E&S CONTROLS SHALL BE CLEANED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION OPERATIONS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED AFTER CONSTRUCTION IS COMPLETE. E&S CONTROLS SHALL BE INSPECTED AND CLEANED AFTER ALL STORM EVENTS AND UPON THE REQUEST OF THE OWNER OR ENGINEER. CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF HAY BALES ON SITE TO BE INSTALLED IN AREAS WHERE EXISTING E&S CONTROLS HAVE FAILED OR AS DETERMINED NECESSARY BY THE ENGINEER. NO WORK OR STORAGE OF CONSTRUCTION EQUIPMENT WILL BE PERMITTED OUTSIDE THE LIMIT OF DISTURBANCE.

27. PROVIDE SOIL EROSION AND SEDIMENT CONTROL MEASURES AT PERIMETERS OF ALL EXCAVATION AREAS, DISTURBED SURFACES AND AT ALL CATCH BASINS ADJACENT TO DISTURBED AREAS. PROVIDE SILT FENCING AND HAY BALES IN ACCORDANCE WITH DIVISION 2 SPECIFICATION **REQUIREMENTS AND AS SHOWN ON THE CIVIL DETAIL DRAWINGS.**

TREE PRESERVATION

28. PROTECT TREES WITHIN THE LIMITS OF WORK BY INSTALLING BLACK CORRUGATED PLASTIC AROUND TREES, AS INDICATED IN THE CONTRACT DRAWINGS.

29. PRIOR TO CONSTRUCTION DETERMINE REQUIRED CLEARANCES AND CONTRACT LICENSED ARBORIST TO PRUNE TREES.

30. BRANCHES OR LIMBS DAMAGED DURING CONSTRUCTION SHALL BE CUT BACK TO THE TRUNK OR A LATERAL BRANCH.

31. MAKE EVERY EFFORT TO MAINTAIN EXCAVATION ACTIVITIES OUTSIDE LIMITS OF THE TREE CANOPY.

32. ROOTS LARGER THAN 1.5" IN DIAMETER ENCOUNTERED IN EXCAVATIONS SHALL BE CUT OFF SQUARELY USING A SHARP ARBORIST SAW.

33. MAINTAIN STORAGE OF EQUIPMENT AND MATERIALS OUTSIDE THE DISTANCE OF THE RADIUS OF THE TREE CANOPY.

TOWN OF WAREHAM, MASSACHUSETTS WANKINQUOAH AVENUE SEWER REPAIR

BETA JOB NO.

10914

LEGEND AND GENERAL NOTES

SHEET NO.

G-1

ISSUE DATE NOVEMBER 21, 2023





1/2023 10:41 AM J:\23.10914 - WAREHAM SWIFTS BEACH EMERGENCY REPAIRS\AUTOCAD\PLAN SET\NEW SEWER CONTRACT\LOCUS.DWG



023 10:47 AM J:\23.10914 - WAREHAM SWIFTS BEACH EMERGENCY REPAIRS\AUTOCAD\PLAN SET\NEW SEWER CONTRACT\10188_PR_PLAN 1.D\



PROFESSIONAL PREPARED BY	SUBCONSULTANT	SCALE	TITLE
A OF MASSICE YAN T. EENWAY CIVIL A8976 WI 21 2023		HOR. SCALE IN FEET: 1"=20' 20 0 20 40 4 0 4 8 VER. SCALE IN FEET: 1"=4' UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION	



- PROTECT ALL TREES WITHIN PUBLIC RIGHT-OF-WAY OR WITHIN 30 FEET OF HEAVY EQUIPMENT OPERATION.
- PROTECT ADDITIONAL TREES AS DIRECTED BY THE
- TREE PROTECTION IS INCLUDED IN ITEM 2C, FURNISH AND INSTALL 6" PVC SEWER SERVICE CONNECTIONS.