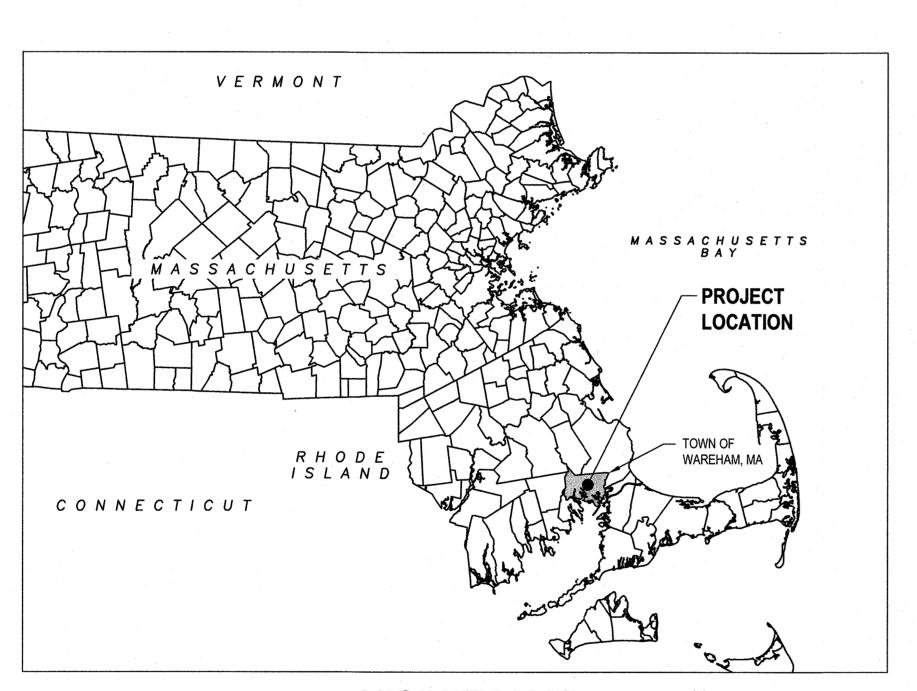
TOWN OF WAREHAM, MASSACHUSETTS

NARROWS PUMP STATION BYPASS INSTALLATION CONTRACT NO. 2020-WW-2

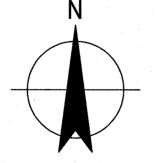


TOWN MANAGER
DEREK SULLIVAN

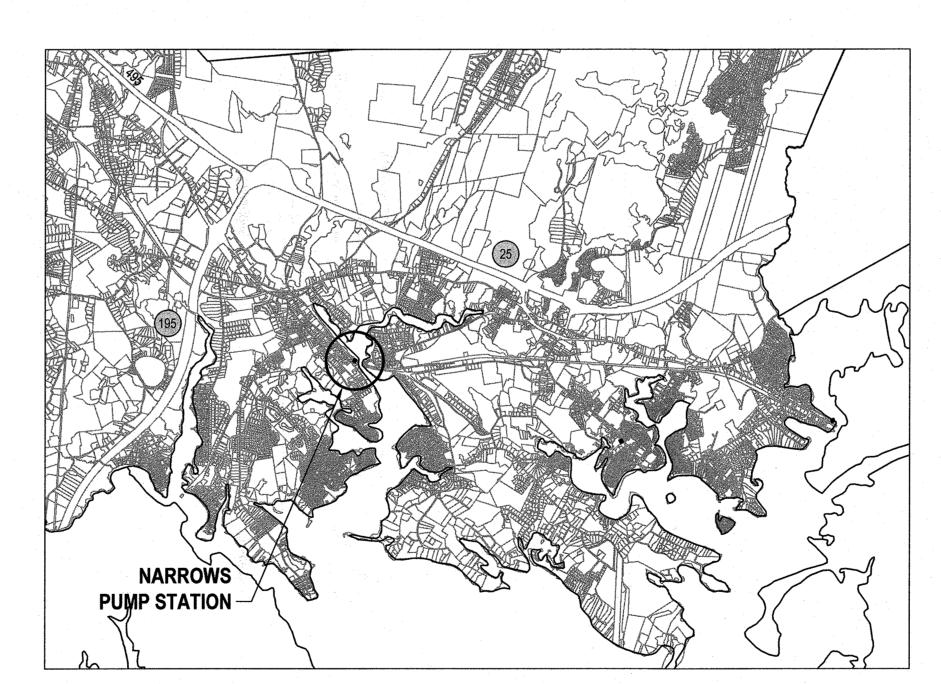
DIRECTOR OF WATER POLLUTION CONTROL
GUY CAMPINHA



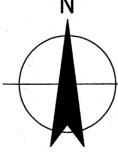
VICINITY MAP



FEBRUARY 2021



LOCATION MAP



SEWER COMMISSIONERS

JAMES R. GIBERTI CHAIRMAN

MALCOM R. WHITE VICE CHAIRMAN

SANDRA SLAVIN CLERK

DONNA M. BRONK MEMBER

PETER DUNLOP MEMBER

PATRICK TROPEANO BOS LIAISON

DRAWING LIST

SHEET NO. DRAWING TITLE

GENERAI

G001 VICINITY MAP, LOCATION MAP, AND DRAWING LIST G002 ABBREVIATIONS, LEGENDS, SYMBOLS, AND NOTES

NOTES AND SEDIMENTATION AND EROSION CONTROL DETAILS

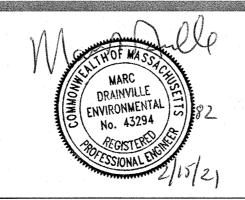
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NARROWS PUMP STATION SITE PLAN, SECTION, LEGEND, AND NOTES

02 MISCELLANEOUS DETAILS

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No.	Issue	Drawn	Approved	Date	
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Drafting Check	RHK	Design Check	RHK	Title
Project Manager	RHK	Date	2/2021	Project No

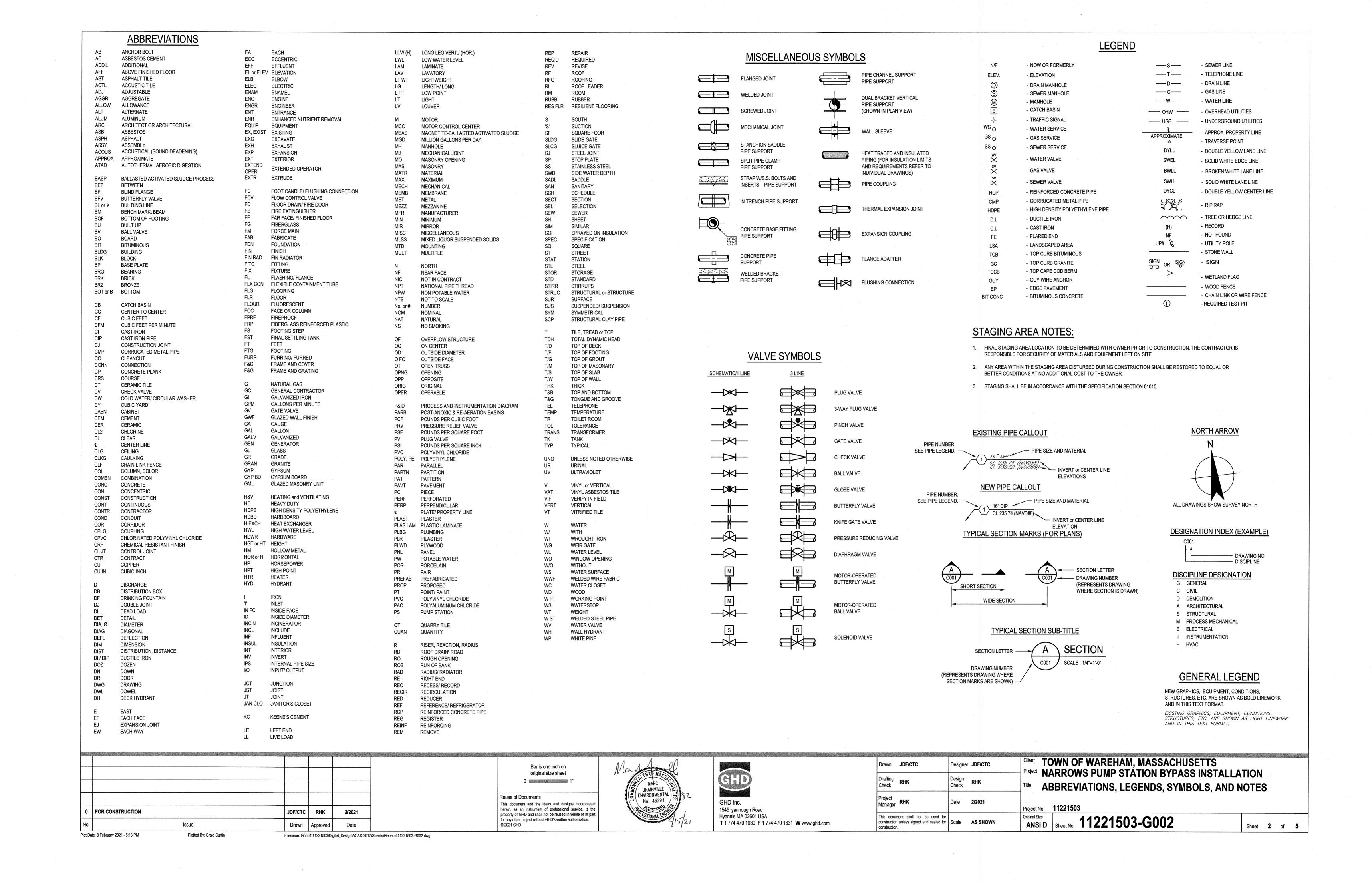
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Client TOWN OF WAREHAM, MASSACHUSETTS
Project NARROWS PUMP STATION BYPASS INSTALLATION
Title VICINITY MAP, LOCATION MAP, AND DRAWING LIST

Sheet 1 of 5

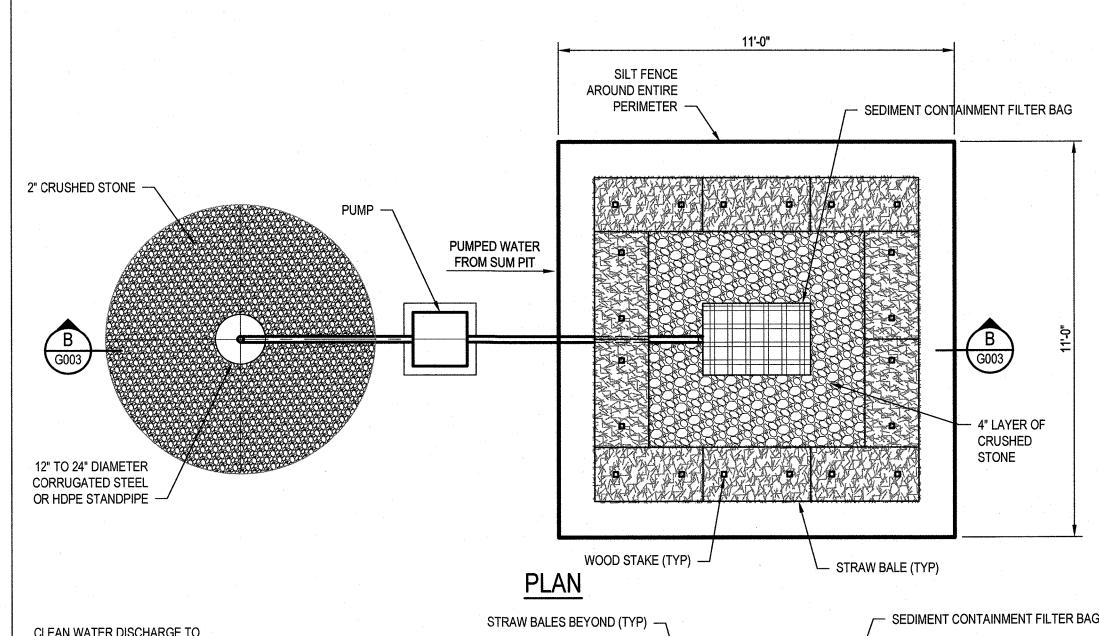
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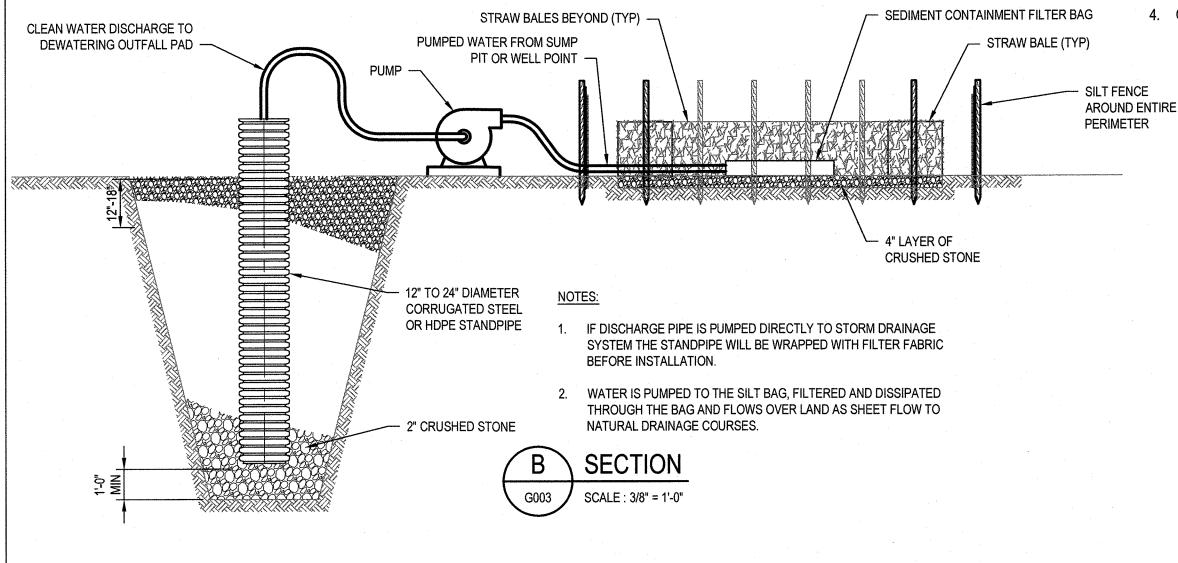
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EROSION & SEDIMENTATION CONTROL NOTES

- 1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR DAILY AND IMMEDIATELY AFTER PERIODS OF RAINFALL. REPAIR AND/OR MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE MADE AS SOON AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL CONTROL MEASURES ON THIS SITE.
- 2. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABILIZATION WILL BE SCHEDULED IMMEDIATELY AFTER ANY DISTURBANCE.
- 3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ALL CONSTRUCTION ACTIVITIES.
- 4. ANCHOR ALL TOPSOIL STOCK PILES WITH STRAW MULCH AND RING WITH SILT FENCE, OR HAYBALE BARRIER.
- 5. SEDIMENT REMOVAL FROM CONTROL STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEDIMENT SHALL BE DISPOSED OF IN A MANNER WHICH DOES NOT RESULT IN ADDITIONAL EROSION AND WHICH IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND REGULATORY REQUIREMENTS.
- 6. THE EROSION AND SEDIMENTATION CONTROL MEASURES DESCRIBED HEREIN ARE INTENDED AS A GENERAL GUIDE FOR THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY AND ALL WORK NECESSARY TO PREVENT EROSION OF SOIL FROM THE CONSTRUCTION SITE. TO PREVENT EROSION, THE CONTRACTOR SHALL PROVIDE SILT FENCES OR OTHER CONTROL MEASURES AS THE NEED ARISES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 7. PAVED ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
- 8. REFER TO SPECIFICATION SECTION 01564 FOR MORE DETAILS.
- 9. WATER REMOVED DURING EXCAVATIONS AND OTHER EARTH MOVING ACTIVITIES MUST BE RELEASED TO SEDIMENT TRAPS OR DEWATERING STRUCTURES.





\SCHEMATIC DEWATERING DETAIL

NOT TO SCALE

JDF/CTC

Drawn

DEWATERING NOTES:

- 1. CONTRACTOR SHALL DEVELOP A DEWATERING PLAN AS REQUIRED IN SECTION 02141.
- 2. PROVIDE SHEETING IF REQUIRED TO ACCOMPLISH THE WORK AND PROTECT EXISTING INFRASTRUCTURE
- 3. CONSTRUCTION NOTES FOR SCHEMATIC DEWATERING DETAIL (TO BE USED IN CONJUNCTION WITH SPECIFICATION SECTION 02141).
- 3.1. FILTER BAGS SHOULD BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS AND SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- 3.2. BAGS SHALL BE ACCESSIBLE BY MACHINERY AND BAGS ARE TO BE REPLACED WITH THEY BECOME 1/2 FULL. SPARE BAGS SHOULD BE KEPT AVAILABLE AT PROJECT SITE.
- 3.3. BAGS SHALL BE LOCATED IN A WELL VEGETATED (GRASSY) UPLAND AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
- 3.4. PUMPS DISCHARGE HOSE TO BE INSTALLED ACCORDING TO MANUFACTURER INSTRUCTIONS.

GENERAL CONSTRUCTION SEQUENCING NOTES:

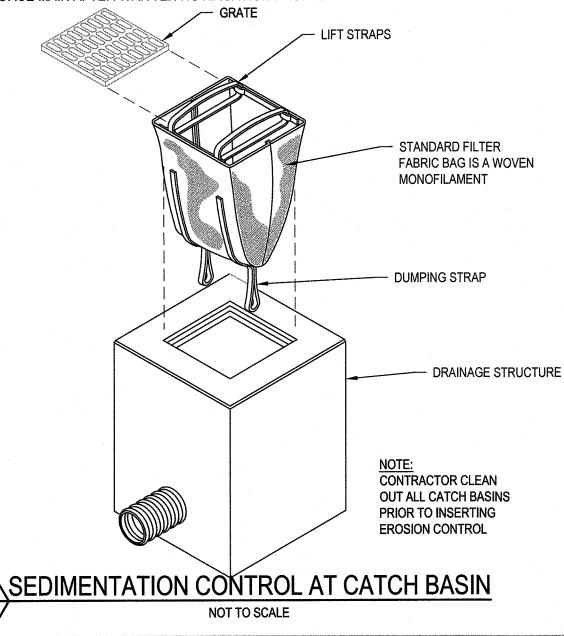
THE CONTRACTOR SHALL NOTE THE FOLLOWING RESPONSIBILITIES FOR THE SEQUENCE OF WORK:

CONTRACTOR RESPONSIBILITIES:

- CONTRACTOR TO PARTICIPATE IN TRIAL RUN SHUTDOWN PRIOR TO ANY CONSTRUCTION ON SITE AS OUTLINED IN SECTION 01010 OF THE SPECIFICATIONS.
- 2. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AT THE EFFLUENT FORCE MAIN AT THE STATION TO VERIFY PIPE MATERIAL, OUTER PIPE DIAMETER, AND ANY OTHER NECESSARY INFORMATION PRIOR TO ORDERING ANY MATERIALS.
- 3. FLOW INFORMATION AT THE PUMP STATION SHALL BE REVIEWED PRIOR TO ANY EXCAVATION TO CONFIRM THAT FLOWS ARE WITHIN CAPABILITIES OF THE SEPTAGE HAULING SERVICE. TOWN WILL PROVIDE HOURLY FLOW RATES FOR THE PUMP STATION FOR UP TO FOUR MONTHS PRIOR TO THE EXCAVATION IF REQUESTED. FLOWS UP TO 1,000 GPM SHOULD BE ANTICIPATED AT THE PUMP STATION.
- 4. CONTRACTOR SHALL SUBMIT A DETAILED BYPASS PLAN FOR APPROVAL PRIOR TO CONSTRUCTION. PLAN TO INCLUDE: 4.1. SEWAGE HAULER AND CONTRACTOR CONTACT INFORMATION (CELL PHONE OF 24-HOUR CONTACT)
- 4.2. ESTIMATE OF THE NUMBER OF TRUCKS NEEDED FOR THE BYPASS EVENT (UTILIZING INFORMATION GATHERED FROM THE TRIAL RUN
- 4.3. WRITTEN DESCRIPTION OF CONSTRUCTION SEQUENCE INCLUDING:
- 4.3.1. HOURS OF OPERATION DURING SHUTDOWN (CONFINE WORK HOURS TO BETWEEN 10 PM AND 6 AM)
- .3.2. METHODS OF CONSTRUCTION (DESCRIBE ANY PREASSEMBLY OF PIPES, FITTINGS, AND BYPASS)
 .3.3. CONFIRMATION OF EXISTING PIPE MATERIAL, SIZE, AND FLOWS
- 5. PROVIDE OWNER WITH 2 WEEKS NOTICE OF STATION BYPASS. TOWN OF WAREHAM SHALL PAY FOR UP TO 12 HOURS OF SEPTAGE HAULING (4 HOURS FOR TRIAL RUN AND 8 HOURS FOR SHUTDOWN. ANY REQUIRED SEWER PUMPING AFTER THAT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WAREHAM'S CONTRACTED SEWER HAULING SERVICE (EITHER SOARES OF TAUNTON MA OR BAY STATE SEWAGE DISPOSAL OF LAKEVILLE, MA) FOR ALL SEWAGE HAULING OR ANY OTHER SEWAGE HAULING SERVICE IDENTIFIED BY THE OWNER.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANYTHING NOT SPECIFICALLY OUTLINED AS AN OWNER RESPONSIBILITY.

OWNER RESPONSIBILITIES:

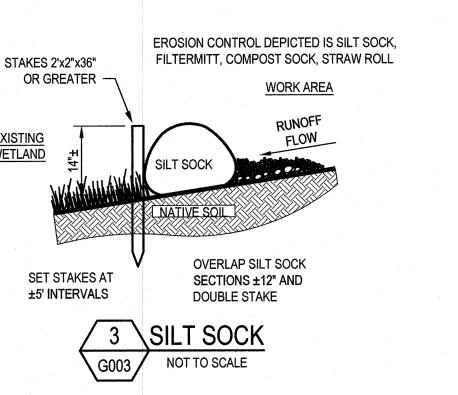
- 1. OWNER SHALL PROVIDE AVAILABLE PUMP STATION DATA TO CONTRACTOR.
- 2. OWNER SHALL DRAIN FORCE MAIN AFTER BEING GIVEN 2 WEEKS NOTICE BY CONTRACTOR.
- 3. TOWN SHALL CONTRACT WITH SEPTAGE HAULER FOR UP TO 12 HOURS FOR DURATION OF PROJECT (4 HOURS FOR TRIAL RUN AND 8 HOURS FOR SHUTDOWN)
- 4. OWNER SHALL RECHARGE FORCE MAIN AFTER WRITTEN NOTIFICATION FROM CONTRACTOR THAT WORK IS COMPLETE.

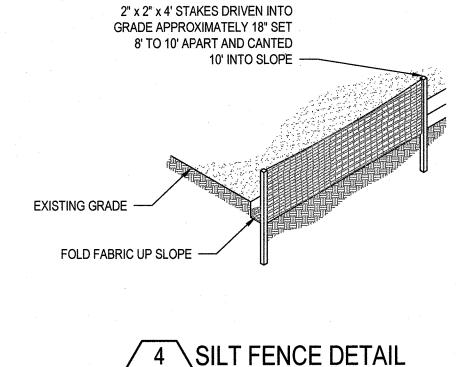


GENERAL NOTES:

(THESE NOTES APPLY TO ALL DRAWINGS UNLESS OTHERWISE SPECIFIED)

- 1. VERTICAL DATUM BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). HORIZONTAL CONTROL BASED ON THE NAD 1983 STATE PLANE MASSACHUSETTS MAINLAND PROJECTION.
- 2. ALL UTILITIES SHOWN ON PLAN ARE APPROXIMATE ONLY. UTILITIES ARE BASED ON DIG SAFE MARKINGS AND AVAILABLE PLANS ON RECORD.
- 3. BACKGROUND INFORMATION (FOR C001) TAKEN FROM EXISTING CONDITIONS SURVEY AT THE NARROWS PUMPING STATION, WAREHAM, MA PREPARED FOR GHD INC. BY GREEN SEAL ENGINEERING, INC. 114 STATE ROAD, BUILDING B, SAGAMORE BEACH MA 02562 AND DATED JANUARY 30, 2019.
- 4. CONTRACTOR TO PERFORM TEST PITS TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION AT LOCATIONS, AT MINIMUM, MARKED WITH "
 T" TWO WEEKS PRIOR TO COMMENCING EXCAVATION.
- 5. ALL FITTINGS AND JOINTS ARE TO BE RESTRAINED.
- 6. THESE PLANS ARE BASED ON RECORD DRAWINGS. CONDITIONS IN THE FIELD MAY VARY FROM THOSE SHOWN HEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT HIS WORK. TO CONVERT FROM NGVD 1929 TO NAVD 1988 SUBTRACT 0.83'.
- 7. THE FOLLOWING REFERENCES TO EXISTING PLANS WERE USED FOR DEPICTING EXISTING CONDITIONS ON THIS PROJECT (CONTRACTOR SHOULD NOTE THAT DATUMS MAY VARY):
- 7.1. NEW SEWAGE WORKS NARROWS AND HYNES FIELD PUMPING STATIONS CONTRACT NO.2 AS PREPARED BY FAY, SPOFFORD AND THORNDIKE AND DATED MARCH 19, 1970.
- 8. EXISTING FACILITIES AND PIPING SHOWN LIGHT. NEW FACILITIES AND PIPING SHOWN HEAVY.
- 9. THE CONTRACTOR SHALL CALL-BEFORE-YOU-DIG AT 1-888-DIG-SAFE FOR LOCATING AND STAKEOUT OF ANY UTILITY PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ALSO PERFORM EXPLORATORY EXCAVATIONS TO LOCATE EXISTING UTILITIES. APPROXIMATE LOCATIONS OF UTILITIES ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY EXISTING UTILITIES DAMAGED DUE TO HIS / HER OPERATIONS.
- 10. ALL EXISTING ELEVATIONS SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
- 11. REFER TO SPECIFICATION SECTION 01010 FOR REQUIREMENTS FOR MAINTAINING PUMP STATION OPERATIONS AND FOR OBTAINING NECESSARY LOCAL AND STATE PERMITS.
- 12. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING PIPING ELEVATIONS, LOCATIONS, SIZE AND TYPE OF MATERIAL WITH NEW PIPING PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL NEW AND EXISTING EQUIPMENT, BUILDING, ROOM, AND CHANNEL OR TANK DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING NEW EQUIPMENT. REPORT DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 13. CONTRACTOR SHALL SUPPLY ALL BENDS REQUIRED TO MAINTAIN SMOOTH FLOW LINES, CHANGES IN ELEVATION AND TO MEET ALL TRANSITIONS.
- 14. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT WITHIN THE LIMIT OF WORK AND ELSEWHERE AS SHOWN ON THE DRAWINGS.
- 15. WHERE NEW UNDERGROUND PIPING IS CONNECTED TO EXISTING UNDERGROUND PIPING, CONTRACTOR IS REQUIRED TO PERFORM EXPLORATORY EXCAVATIONS IN THESE AREAS, AS REQUIRED, TO CONFIRM EXISTING PIPING LOCATIONS AND ELEVATIONS. REFER TO SPECIFICATION SECTION 01010.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF ALL EXCAVATIONS, AS REQUIRED, INCLUDING SHEETING AND BRACING.
 CONTRACTOR SHALL ALSO STRUCTURALLY SUPPORT AND / OR PROTECT WATER MAIN, GAS MAIN, STORM SEWER, SANITARY SEWER OR ANY
 OTHER UTILITY AND APPURTENANCES WHERE NECESSARY WHEN EXCAVATING ADJACENT TO OR CROSSING SAID UTILITY.
- 17. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE ENGINEER AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION COMMENCING.
- 18. CONTRACTOR IS RESPONSIBLE FOR DETERMINING DEPTH OF GROUNDWATER AND FOR ALL COSTS ASSOCIATED WITH THE DEWATERING NECESSARY TO INSTALL PIPING AND APPURTENANCES.





Client TOWN OF WAREHAM, MASSACHUSETTS
Project NADDOWS DUMP STATION BY DASS INSTALL ATION

Sheet 3 of 5

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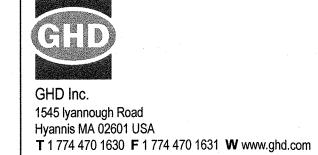
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G003



Drawn JDF/CTC

Drafting Check

RHK

Project Manager

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Project NARROWS PUMP STATION BYPASS INSTALLATION

Title NOTES AND SEDIMENTATION AND EROSION CONTROL

DETAILS

Project No. 11221503

Original Size ANSI D Sheet No. 11221503-G003

Plot Date: 8 February 2021 - 5:14 PM

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Plotted By: Craig Curtin

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