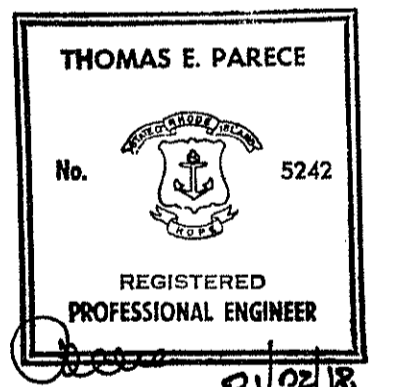


**DEM WETLAND PERMIT
 APPLICATION NO. 17-0306**

REGISTRATION



ISSUE/REVISION

IR	DATE	DESCRIPTION
	2018-01-02	DEM WETLAND PERMIT

PROJECT NUMBER

60437789

Designed By: M. CURRAN
 Drawn By: M. CURRAN
 Dept Check: T. PARECE
 Proj Check: T. OAKES / E. MUENCH
 Date: NOVEMBER 2017
 Scale: AS NOTED

DISCIPLINE

GENERAL

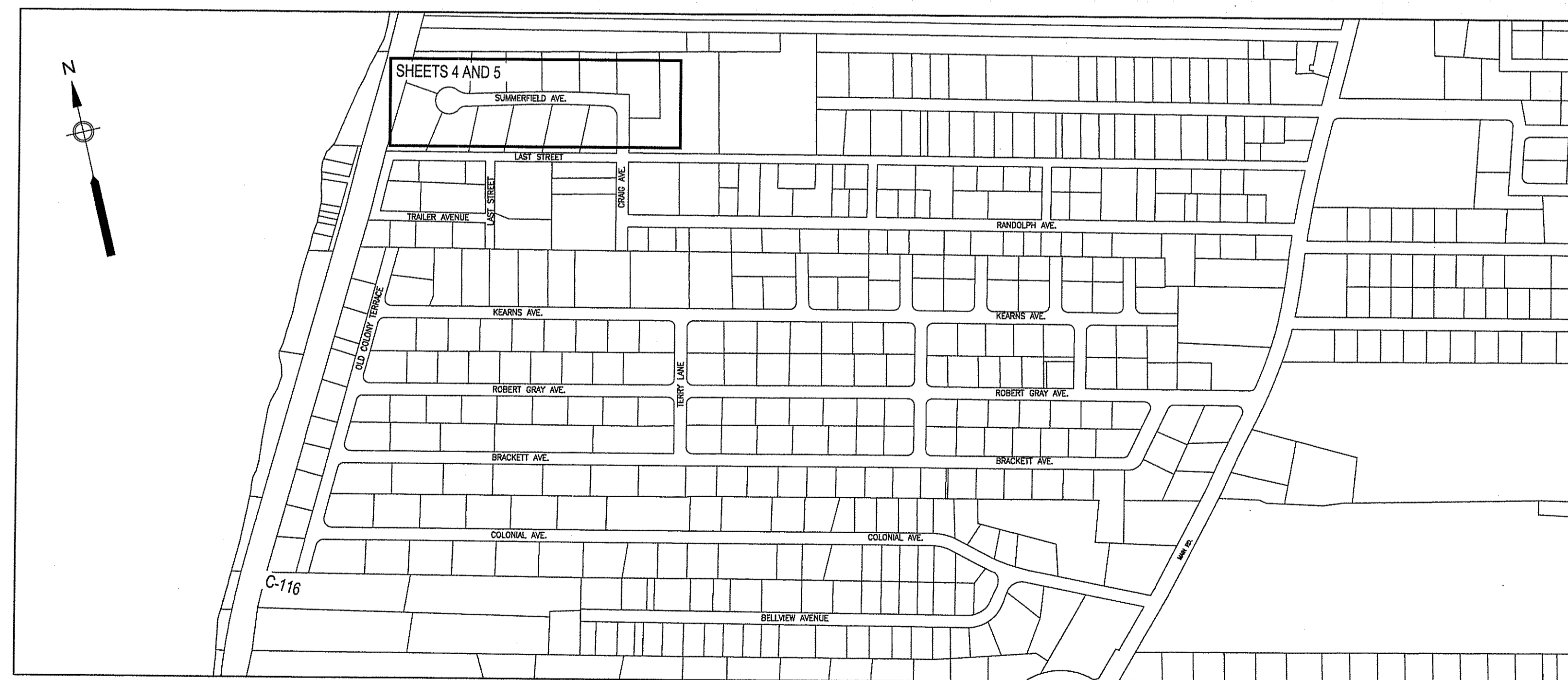
SHEET TITLE

SHEET KEY PLANS

SHEET NUMBER

SHEET 2 OF 5

Kindly be advised that this
 Permit is not equivalent to a
 verification of the type or extent
 of freshwater wetlands on site.



**SHEET KEY PLAN
 ROBERT GRAY AREA**

SCALE: 1"=300'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 07 2018 FILE # 17-0306
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Signature: Martin D. Wenzel

JAN 5 2018

GENERAL NOTES

- SURVEY PLANS FOR THE ROBERT GRAY AREA AND RIVERSIDE AREA WERE PREPARED FROM A COMBINATION OF AERIAL MAPPING AND GROUND SURVEY BY WSP GROUP, 155 MAIN DUNSTABLE ROAD, NASHUA NH.
- THE AERIAL MAPPING FOR THE ROBERT GRAY AREA AND RIVERSIDE AREA WAS COMPILED FROM PHOTOGRAPHY DATED MARCH 6, 2012 AND AMENDED WITH ON THE GROUND FIELD SURVEY CONDUCTED BETWEEN NOVEMBER 23, 2015 AND JANUARY 23, 2016.
- HORIZONTAL COORDINATES FOR THE ROBERT GRAY AREA AND RIVERSIDE AREA ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
- ELEVATIONS FOR THE ROBERT GRAY AREA AND RIVERSIDE AREA ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). MAPPING UNITS ARE US SURVEY FEET.
- SCALES SHOWN HEREIN ARE FOR FULL SIZE PLOTS ON 22x34 INCH SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR CONVERTING SCALES ON REDUCED OR ENLARGED PLOTS.
- THE LOCATION OF PROPERTY LINES SHOWN ON THESE PLANS ARE FROM AN OVERLAY OF THE TOWN'S GIS LAYER AND SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHOULD PERFORM A BOUNDARY SURVEY WHERE NECESSARY TO DETERMINE PROPERTY OWNERSHIP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE STATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (O.S.H.A.). COPIES OF O.S.H.A.'S STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. THE CONTRACTOR ALONE WILL BE RESPONSIBLE FOR THE EXECUTION OF THE WORK IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REQUIREMENTS.
- THE CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN AND SHALL PROVIDE COPIES OF SAME TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND SHALL PROVIDE ALL NECESSARY CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS.
- CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE LOCAL MUNICIPALITY AND THE STATE WHEN WORKING IN THEIR RIGHTS OF WAY.
- NO WORK, STORAGE, OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENTS WITHOUT WRITTEN PERMISSION OF THE PROPERTY OWNER.
- ALL CONSTRUCTION ACTIVITY SHALL BE CONFINED TO THE AREA WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS. LIMIT OF WORK SHALL BE DEFINED AS THE SERVICE RECIPIENTS PROPERTY LINE AND THE ADJACENT RIGHT-OF-WAY. RIGHTS OF ENTRY AND/OR EASEMENTS HAVE BEEN OBTAINED BY THE OWNER FOR ALL PROPERTIES INCLUDED IN THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED UNACCEPTABLE MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- IF AT ANY TIME THE CONSTRUCTION EXCAVATION REVEALS ANY ARTICLE OF HISTORIC OR ARCHEOLOGICAL SIGNIFICANCE, WORK AT THE LOCATION WILL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE ALL WORK AS NECESSARY WITH THE TIVERTON WASTEWATER DISTRICT AND/OR ITS REPRESENTATIVES.
- WORKING HOURS WITHIN THE TOWN ARE 7:00 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY. PERMISSION IS REQUIRED FROM THE OWNER VIA THE ENGINEER TO WORK ON SATURDAY, SUNDAY, LEGAL HOLIDAYS, OR ANY WEEKDAY OUTSIDE THE HOURS SPECIFIED. THIS PERMISSION MUST BE REQUESTED 72 HOURS IN ADVANCE. SUNDAY WORK WILL ONLY BE ALLOWED IN CASE OF EMERGENCY.
- EXISTING VALVES OR HYDRANTS SHALL BE OPERATED BY THE MUNICIPAL OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE MUNICIPAL OWNER OF THE WATER SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK AS INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER IN CONFORMANCE WITH ALL APPLICABLE CODES AND IN A PROPER AND WORKMANLIKE MANNER.
- CONTRACTOR TO SUBMIT WORK SCHEDULE PRIOR TO THE START OF CONSTRUCTION, INCLUDING NECESSARY UTILITY RELOCATIONS BASED ON RESULTS OF TEST PITS. NO PIPE INSTALLATION SHALL OCCUR PRIOR TO APPROVAL OF THE SCHEDULE BY THE OWNER AND THE ENGINEER AND COMPLETION OF TEST PITS.
- THE CONTRACTOR IS RESPONSIBLE FOR SEQUENCING OF ALL WORK TO AVOID CONFLICTS BETWEEN ALL PROPOSED WORK.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A TRAFFIC MANAGEMENT PLAN FOR ALL WORK PRIOR TO THE START OF CONSTRUCTION TO SHOW HOW TRAFFIC FLOW WILL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE AND/OR WARNING DEVICES AS REQUIRED TO CONTROL TRAFFIC AND PROTECT THE PUBLIC IN ALL WORK AREAS.
- ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD, LATEST EDITION AND LOCAL AND STATE GUIDELINES.
- THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THE WORK AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN EMERGENCY RESPONSE PLAN. THIS PLAN SHALL BE COORDINATED WITH THE ENGINEER, THE TOWN AND ALL EMERGENCY DEPARTMENTS.
- PRIOR TO CLOSING ANY ROADWAY (PARTIALLY OR COMPLETELY), MUNICIPAL POLICE, THE TOWN AND LOCAL FIRE OFFICIALS SHALL BE NOTIFIED. THE CONTRACTOR SHALL COMPLY WITH ANY CONDITIONS SET BY THE PUBLIC SAFETY OFFICIALS, IN CONJUNCTION WITH THE OWNER AND ENGINEER.
- CONTRACTOR TO PROVIDE AND MAINTAIN SEDIMENTATION AND EROSION CONTROL MEASURES TO PROTECT ALL CATCH BASINS, DRAINAGE INLETS AND SWALES IN THE CONSTRUCTION ZONE.
- ALL EROSION CONTROL MEASURES FOR THE WORK ZONE SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE EXISTING FEATURES AND STRUCTURES WITHIN AND ADJACENT TO THE WORK. IN THE EVENT OF DAMAGE, REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
- EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. ALL ROADWAYS, PARKING AREAS, SIDEWALKS AND OTHER STRUCTURES DISTURBED BY CONSTRUCTION IN OR OUTSIDE THE PROJECT AREA SHALL BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION. ALL COSTS RELATED TO THE REPAIR OF DAMAGED UTILITIES OR STRUCTURES SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL SAW-CUT PAVEMENT, ROADS, AND DRIVEWAYS TO BE DISTURBED DURING CONSTRUCTION PRIOR TO REMOVAL AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE TRENCH SHORING AND BRACING AT ALL TIMES IN ACCORDANCE WITH OSHA REQUIRED SAFETY STANDARDS.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTING REPLACEMENT SERVICE CONNECTIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS AT EACH SITE RECEIVING SEWER SERVICE, INCLUDING BUT NOT LIMITED TO, INVERT ELEVATIONS AT EACH MANHOLE, DEPTH AND LOCATION OF EXISTING PIPING TO ON-SITE WASTE DISPOSAL SYSTEMS (OWDS) AND THE LOCATION OF EXISTING OWDS.
- ALL PROPOSED GRAVITY SEWER SERVICES SHALL BE 6" DIAMETER PVC UNLESS OTHERWISE NOTED.
- ALL PROPOSED LOW PRESSURE SEWER SERVICES SHALL BE 1-1/4" DIAMETER PVC UNLESS OTHERWISE NOTED.
- ALL UNEXCAVATED ROCK WITHIN 3'-0" HORIZONTALLY OF THE ENDS OF BUILDING CONNECTIONS, BRANCHES AND STUBS, AND DOWN TO A HORIZONTAL PLANE 6-INCHES BELOW THE BOTTOMS OF SUCH CONNECTIONS, BRANCHES AND STUBS, SHALL BE REMOVED.
- ROCK REMOVAL BY THE MECHANICAL METHOD SHALL CONSIST OF CUTTING AWAY ROCK AT TRENCH BOTTOM TO FORM A LEVEL BEARING SURFACE 6" BELOW INVERT ELEVATION OF PIPE.
- NO TREES OR TREE LIMBS ALONG THE ENTIRE ROUTE OF CONSTRUCTION ON PUBLIC WAYS SHALL BE CUT UNLESS DIRECTED BY THE ENGINEER.

GENERAL NOTES - (CONT.)

- THE CONTRACTOR SHALL EXERCISE CARE TO PREVENT DAMAGE TO ROOT SYSTEMS OF EXISTING TREES OR SHRUBS IN LOCATIONS OF PROPOSED SEWER LINES.
- THE LOCATIONS OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN AND UTILITY COMPANIES TO VERIFY IN THE FIELD THE EXACT LOCATION, SIZE, AND MATERIAL OF CONSTRUCTION OF MAINS AND SERVICES TO PREVENT DAMAGE, LOSS OF SERVICE DURING CONSTRUCTION AND FOR REPLACEMENT OF SERVICES. THE CONTRACTOR SHALL NOTIFY "DIG SAFE" 72-HOURS PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE DEPTH OF EXISTING UTILITY CROSSINGS AT THE NEW SANITARY PIPING. METHODS FOR DETERMINING DEPTHS TO UTILITIES WILL BE BY TEST PITS OR BY VACUUM EXCAVATION, WHICHEVER IS DEEMED ACCEPTABLE BY THE UTILITY COMPANY AT THE SPECIFIC LOCATION.
- EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING CONSTRUCTION. ANY INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY, THE ENGINEER AND APPROVED BY THE TIVERTON WASTEWATER DISTRICT IN ADVANCE.
- EXISTING UTILITIES INTERFERING WITH THE WORK SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICES BID. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL REPAIRS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING FIRE HYDRANTS AT ALL TIMES. SHOULD AN EXISTING HYDRANT NEED TO BE TAKEN OUT OF SERVICE, THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY DISTRICT AND THE LOCAL FIRE DEPARTMENT 24 HOURS PRIOR TO TAKING IT OUT OF SERVICE.
- IF WATER MAINS NEED TO BE RE-LAYED AS A RESULT OF NEW PIPELINE CONSTRUCTION, THE WATER MAINS SHALL BE LAID A MINIMUM OF 10- FEET HORIZONTALLY FROM AN EXISTING SEWER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHEN WATER MAINS MUST CROSS ABOVE A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18-INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHERE RE-LAYED WATER MAINS ARE SHOWN TO CROSS SEWERS, THE RE-LAYED WATER MAIN SHALL BE INSTALLED SO THAT A FULL LENGTH OF WATER MAIN CROSSES THE SEWER MIDWAY BETWEEN THE JOINTS OF THE WATER MAIN.
- CONTRACTOR SHALL MAKE ARRANGEMENTS TO OBTAIN WATER FOR FLUSHING, CHLORINATION, AND TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, FURNISHING, INSTALLING, AND REMOVING ALL NECESSARY MATERIAL (TAPS, CORPORATIONS, AND SERVICE PIPE) REQUIRED FOR PROPER TESTING AND CHLORINATION OF WATER MAINS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, FURNISHING, INSTALLING, AND REMOVING ALL NECESSARY MATERIAL (TAPS, CORPORATIONS, AND SERVICE PIPE) REQUIRED FOR PROPER TESTING AND CHLORINATION OF WATER MAINS.
- AFTER TESTING, ALL CORPORATIONS INSTALLED FOR TESTING AND CHLORINATION SHALL BE REMOVED AND REPLACED WITH BRASS PLUGS. WATER TIGHTNESS OF BRASS PLUGS SHALL BE OBSERVED VISUALLY UNDER PRESSURE.
- ALL ROAD CUTS SHALL BE RESTORED WITH SUB-BASE MATERIAL AT THE END OF EACH WORK DAY. CONTRACTOR SHALL MAINTAIN ROAD CUTS UNTIL THE TEMPORARY/PERMANENT PAVEMENT IS INSTALLED.
- TEMPORARY TRENCH PAVEMENT SHALL BE INSTALLED AT THE END OF EACH WORK WEEK UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO PRE-CONSTRUCTION GRADES UPON COMPLETION OF SEWER CONSTRUCTION, EXCEPT WHERE PERMANENT GRADE CHANGES ARE SPECIFICALLY NOTED OR DIRECTED BY THE ENGINEER.
- ALL PAVED GUTTERS (ASPHALT WING), ALL STONE CURBS, AND ALL CONCRETE CURB ALONG ROADWAYS DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXISTING FRAMES, COVERS, BOXES, ETC. SHALL BE RAISED TO FINISH GRADES PRIOR TO PLACEMENT OF PAVEMENT WEARING COURSE.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WASTE BUILDING MATERIAL, CONCRETE, MASONRY, TREES, SHRUBS, DEBRIS AND OTHER MATERIALS NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK AND AS REQUIRED BY THE OWNER. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANING OF MUD, DIRT AND DEBRIS OFF STREETS, WHEN SUCH MUD, DIRT OR DEBRIS IS DEPOSITED THERE AS A RESULT OF HIS CONSTRUCTION ACTIVITY. ANY DEBRIS, MUD, OR DELETERIOUS MATERIAL FROM THE PROJECT WILL BE REMOVED FROM THE STREET AND SURROUNDING STREETS BY CONTRACTOR AT THE END OF EACH WORK DAY.
- USE WATER SPRINKLING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT AIRBORNE DUST AND DIRT.
- WETLAND AND STREAM DELINEATION WAS CONDUCTED BY AECOM ON JULY 10 THROUGH 12, 2017 AND JULY 28, 2017.
- TRIMBLE GEOEXPLORER 7X GLOBAL POSITIONING SYSTEM (GPS) WAS USED TO LOCATE THE WETLAND AND STREAM FLAGS AND BOUNDARIES DELINEATED BY AECOM ON JULY 10 THROUGH 12, 2017 AND JULY 28, 2017.
- MINIMUM COVER FOR LPS AND GRAVITY SEWERS SHALL BE 5 FEET UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL EXISTING PAVEMENT MARKINGS INCLUDING CENTER LINES, EDGE LINES, STOP LINES, CROSSWALKS AND LETTERING FOLLOWING RESTORATION OF PAVEMENT.

GENERAL NOTES - EXISTING SEWER ABUTTERS

- EXISTING SITE INFORMATION SHOWN ON THE SEWER ABUTTERS PLANS IS BASED ON A VISUAL ON-THE-GROUND SURVEY PERFORMED BY AECOM AND A CLOSED CIRCUIT TV INSPECTION PERFORMED BY NATIONAL WATER MAIN COMPANY.

ABBREVIATIONS

B.B.	BITUMINOUS BERM	EP	EXISTING PAVEMENT	R	RIM
BIT. CURB	BITUMINOUS CURB	EXIST.	EXISTING	RCP	REINFORCED CONCRETE PIPE
BIT. CONC.	BITUMINOUS CONCRETE	FT	FEET	S	SLOPE
BM	BENCH MARK	FM	FORCE MAIN	SMH	SEWER MANHOLE
CB	CATCH BASIN	G	GAS	SWL	SINGLE WHITE LINE
CI	CAST IRON	GAR	GARAGE	SYL	SINGLE YELLOW LINE
CICL	CEMENT LINED CAST IRON	GC	GRANITE CURB	STA	STATION
CMP	CORRUGATED METAL PIPE	HDPE	HIGH DENSITY POLYETHYLENE	TBM	TEMPORARY BENCHMARK
CONC.	CONCRETE	INV	INVERT	TMH	TELEPHONE MANHOLE
CONN.	CONNECT	LP	LOW PRESSURE	T.O.P.	TOP OF PIPE
CS	CARBON STEEL	LPS	LOW PRESSURE SEWER	TRANS	TRANSFORMER
DI	DUCTILE IRON	LSA	LANDSCAPED AREA	TYP	TYPICAL
DMH	DRAINAGE MANHOLE	MB	MAIL BOX	UE	UNDERGROUND ELECTRIC
DOE	DEPTH OF EXPLORATION	MIN	MINIMUM	UP	UTILITY POLE
DYL	DOUBLE YELLOW LINE	NTS	NOT TO SCALE	VCP	VITRIFIED CLAY PIPE
ELEC	ELECTRICAL	PL	PLASTIC	W/FC	WATERTIGHT FRAME AND COVER
EL	ELEVATION	PVC	POLYVINYL CHLORIDE	W/	WITH
EOP	EDGE OF PAVEMENT	PVMT	PAVEMENT	WF	WETLAND FLAG
		PWW	PAVED WATERWAY		

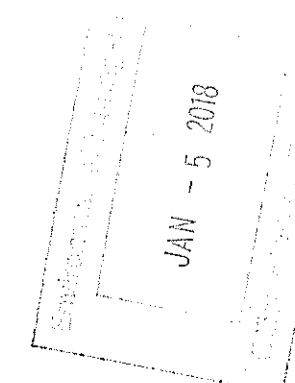
LEGEND

EXISTING	PROPOSED
CONCRETE BOUND WITH DRILL HOLE	SEWER MANHOLE
CONCRETE BOUND	SERVICE CLEAN OUT
HIGHWAY BOUND	SERVICE CHECK VALVE
IRON ROD FOUND	CATCH BASIN
ROUND CATCH BASIN	SEDIMENTATION CONTROL
CATCH BASIN	STATIONING
DOUBLE CATCH BASIN	TEST PIT
CULVERT	GRAVITY SEWER
DRAIN MANHOLE	LOW PRESSURE SEWER
DRAINAGE HEADWALL	SEWER SERVICE LINE
SEWER MANHOLE	PAVEMENT RESTORATION LIMITS (INCLUDING FULL WIDTH PAVEMENT REMOVAL, COLD PLANE AND OVERLAY AREAS)
DISPOSAL SYSTEM COVER	PAVEMENT RESTORATION LIMITS IN RIVERSIDE DRIVE STATE RIGHT OF WAY
CESSPOOL	EROSION CONTROL BARRIER
ELECTRIC BOX	SEWER ABUTTERS RECEIVING SERVICE CONNECTION
ELECTRIC MANHOLE	EASEMENT
GAS VALVE	
TELEPHONE BOX	
TELEPHONE MANHOLE	
WATER GATE	
IRRIGATION CONTROL VALVE	
FIRE HYDRANT	
UTILITY POLE WITH RISER	
UTILITY POLE	
UTILITY POLE WITH LIGHT	
UTILITY POLE WITH LIGHT AND RISER	
UTILITY POLE WITH TRANSFORMER	
GUY	
DECIDUOUS TREE	
CONIFER TREE	
SHRUB	
SIGN (SINGLE POSTED)	
SIGN (DOUBLE POSTED)	
TRAFFIC SIGNAL	
POST	
MONITORING WELL	
LIGHT POLE	
FLAG POLE	
FIRE DEPARTMENT CONNECTION	
VENT	
SPOT ELEVATION	
WETLAND FLAG	
PROPERTY LINE	
FENCE	
SEWER LINE	
SEWER SERVICE STUB	
SEWER FORCEMAIN	
DRAIN LINE	
WATER LINE	
GAS LINE	
UNDERGROUND ELECTRIC	
UNDERGROUND CABLE	
TELEPHONE LINE	
OVERHEAD WIRES	
INTERMEDIATE CONTOURS	
INDEX CONTOURS	
EXISTING TREELINE	
PERIMETER WETLAND	
STREAM EDGE	
100-FOOT RIVERBANK	
200-FOOT RIVERBANK	
100 YEAR FLOODPLAIN	
CRMC 50-FOOT BUFFER	
CRMC 75-FOOT SETBACK	
CRMC 200-FOOT CONTIGUOUS AREA	

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Christopher D. Wenczek



PROJECT
USDA Year 1 Wastewater System Expansion

TWWD Contract No. 2017-EXP01 and 2017-CX01
USDA Contract No. 2014-PUB01 and 2014-PRIV01

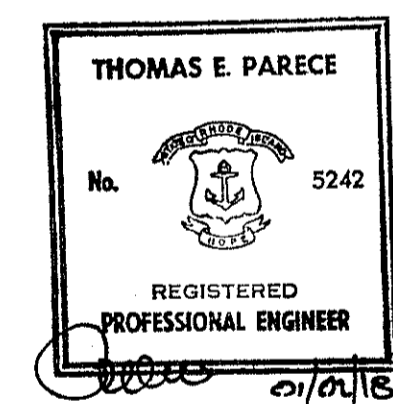
CLIENT
TIVERTON WASTEWATER DISTRICT

400 FISH ROAD
TIVERTON, R.I. 02878
PHONE: (401) 625-6701
WWW.TWWD.ORG
CONSULTANT
AECOM TECHNICAL SERVICES, INC.
250 APOLLO DRIVE
CHELMSFORD, MA 01824
PHONE: (978) 905-2100
WWW.AECOM.COM

CONSULTANTS

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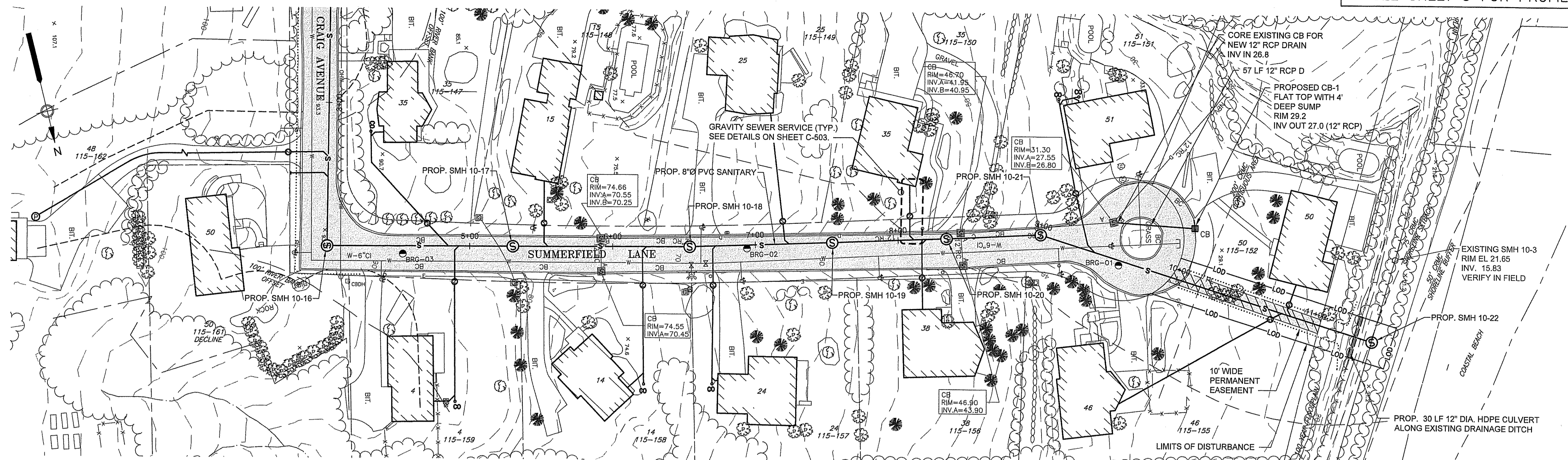
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GENERAL NOTES, ABBREVIATIONS AND LEGENDS

SHEET NUMBER

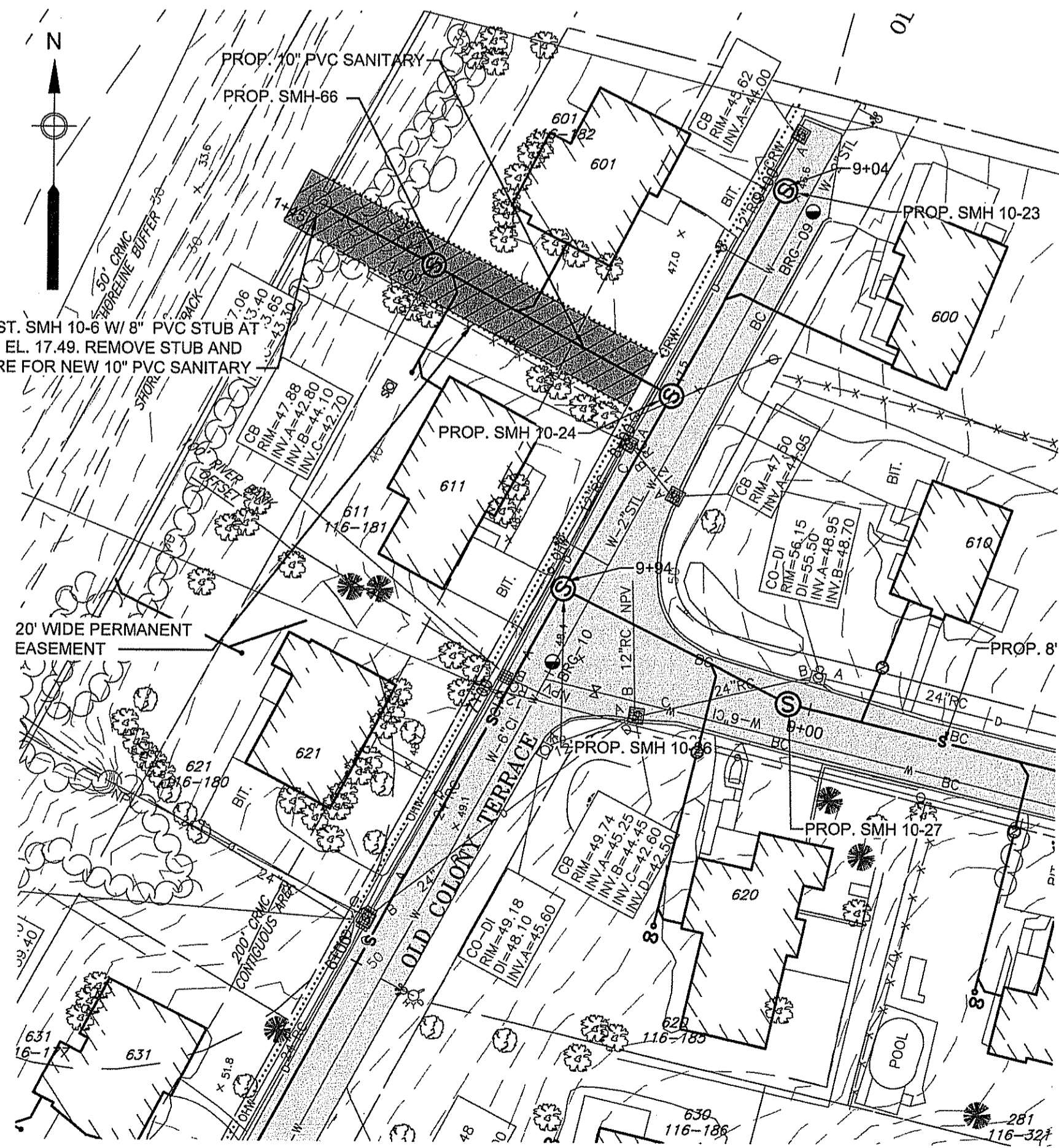
SHEET 3 OF 5

SEE SHEET 5 FOR PROFILE



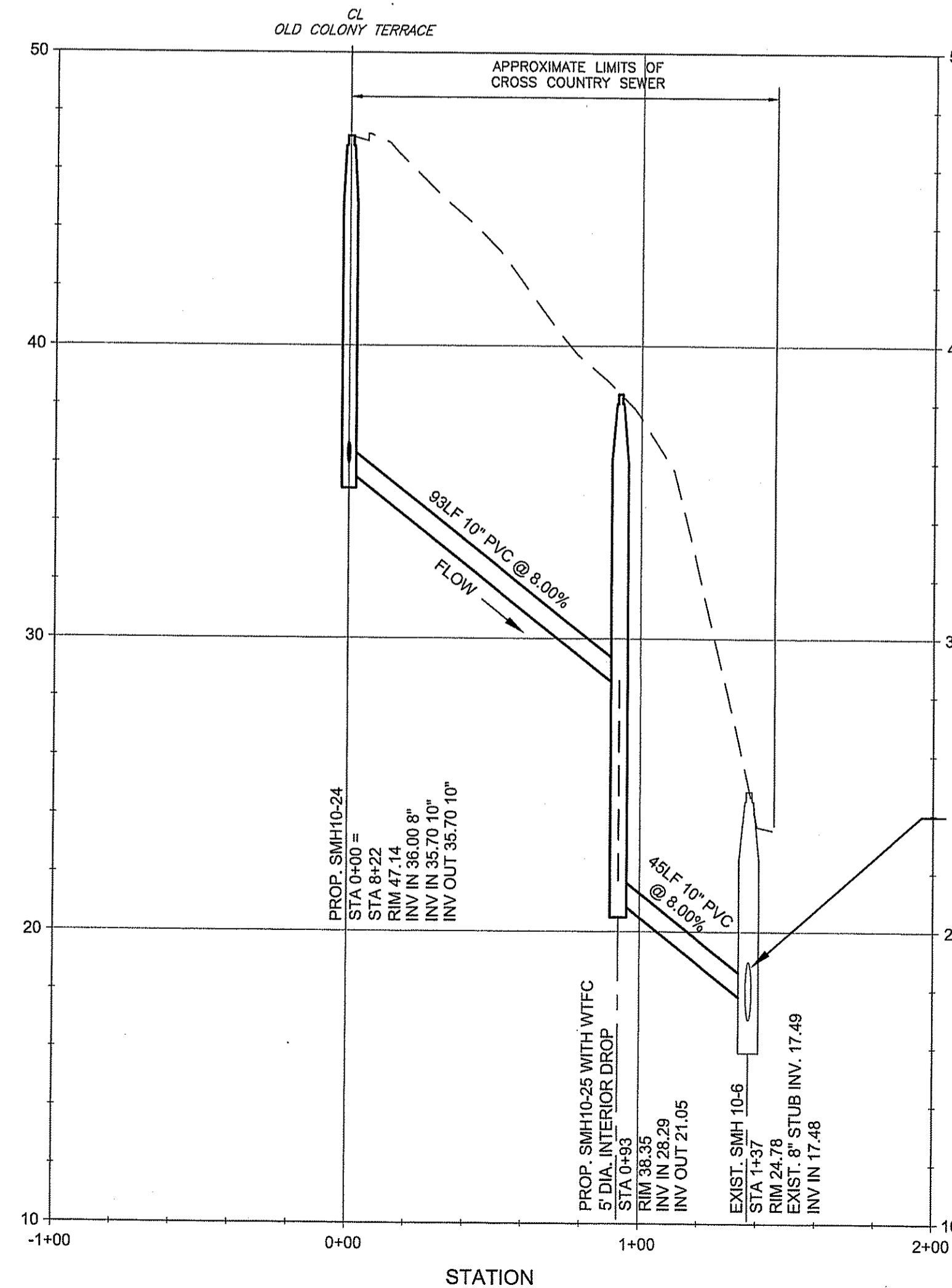
PLAN - SUMMERFIELD LANE

SCALE: 1"=40'

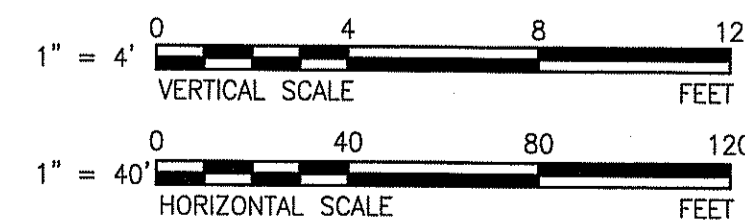


PLAN - OLD COLONY TERRACE
CONNECTION TO EXISTING SEWER

SCALE: 1"=40'



PROFILE - OLD COLONY TERRACE
CONNECTION TO EXISTING SEWER



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Signature of Thomas E. Parece



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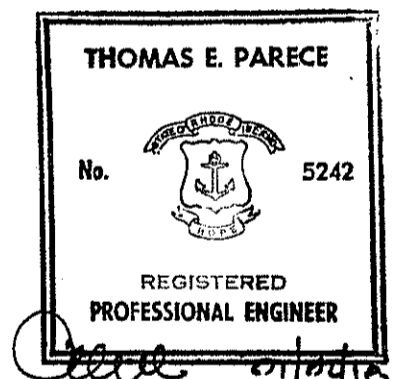
400 FISH ROAD
TIVERTON, R.I. 02878
PHONE: (401) 625-6701
WWW.TWWD.ORG

CONSULTANT
AECOM TECHNICAL SERVICES, INC.
250 APOLLO DRIVE
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CONSULTANTS

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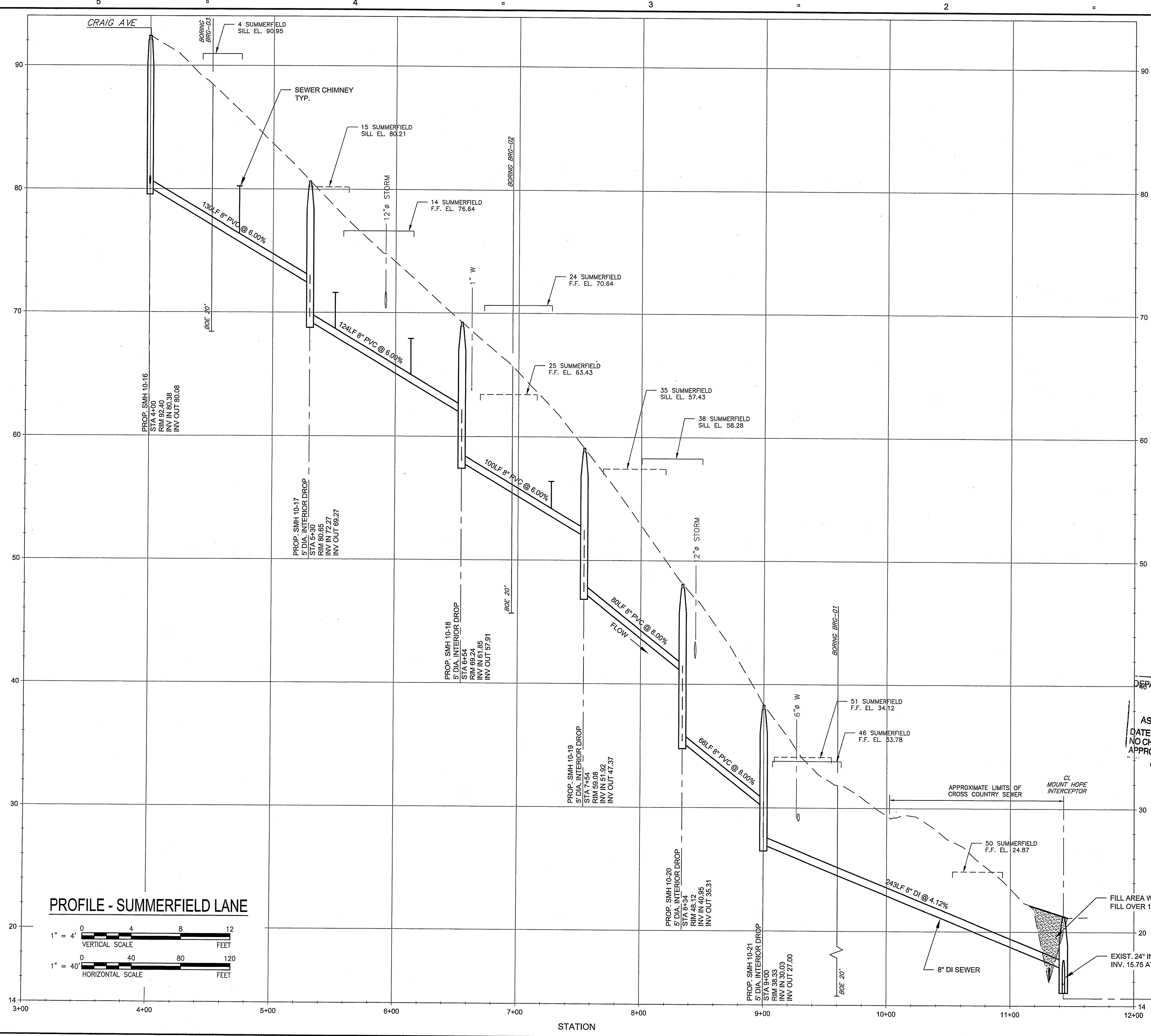
SHEET TITLE

PLAN AND PROFILE SEWER
SUMMERFIELD LANE AND
OLD COLONY TERRACE

SHEET NUMBER

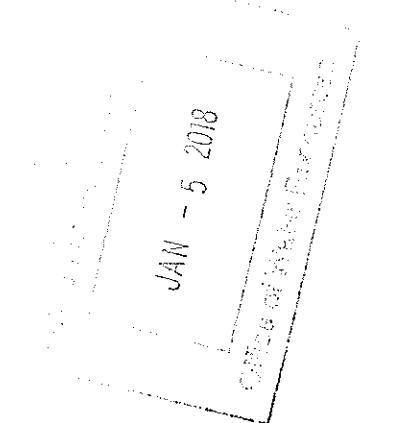
SHEET 4 OF 5

SEE SHEET 4 FOR PLAN

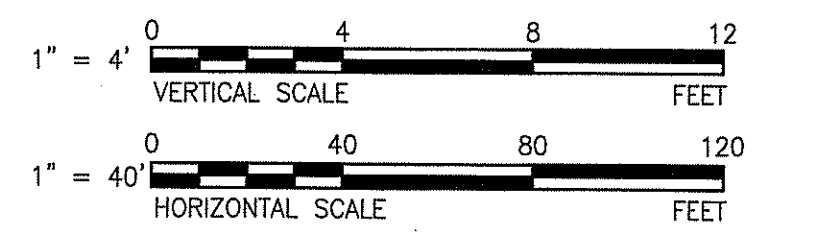


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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 07 2018 FILE # 17-0306
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek



PROFILE - SUMMERFIELD LANE



Project Management Initials: _____
Designer: _____
Checked: _____
Approved: _____

Last saved by: CURRANM(2018-01-02) Last Plotted: 2018-01-02
Filename: L:\WORK\047789 - TIVERTON\PROJECT BULLETIN BOARD_FILES\2018 01-02-WETLAND PERMITSHEET 4 AND 5.DWG

AECOM

PROJECT
USDA Year 1 Wastewater System Expansion

TWWD Contract No. 2017-EXP01 and 2017-CX01
USDA Contract No. 2014-PUB01 and 2014-PRIV01

CLIENT
TIVERTON
WASTEWATER DISTRICT

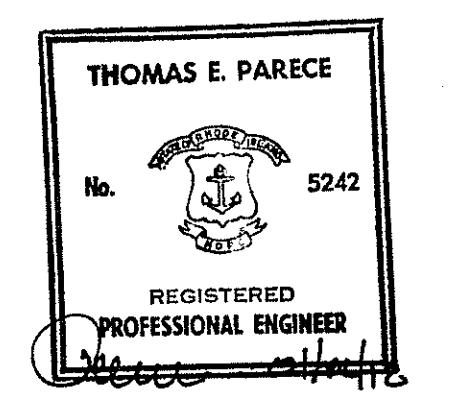
400 FISH ROAD
TIVERTON, R.I. 02878
PHONE: (401) 625-6701
WWW.TWWD.ORG

CONSULTANT
AECOM TECHNICAL SERVICES, INC.
250 APOLLO DRIVE
CHELMSFORD, MA 01824
PHONE: (978) 955-2100
WWW.AECOM.COM

CONSULTANTS

DEM WETLAND PERMIT
APPLICATION NO. 17-0306

REGISTRATION



ISSUE/REVISION

IR	DATE	DESCRIPTION
1	2018-01-02	DEM WETLAND PERMIT

PROJECT NUMBER
60437789

Designed By: M. CURRAN
Drawn By: M. CURRAN
Dept Check: T. PARECE
Proj Check: T. OAKES / E. MUENCH
Date: NOVEMBER 2017
Scale: AS NOTED

DISCIPLINE
CIVIL

SHEET TITLE
SEWER PROFILE
SUMMERFIELD LANE

SHEET NUMBER
SHEET 5 OF 5