COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY · RHODE ISLAND

FEBRUARY 2025

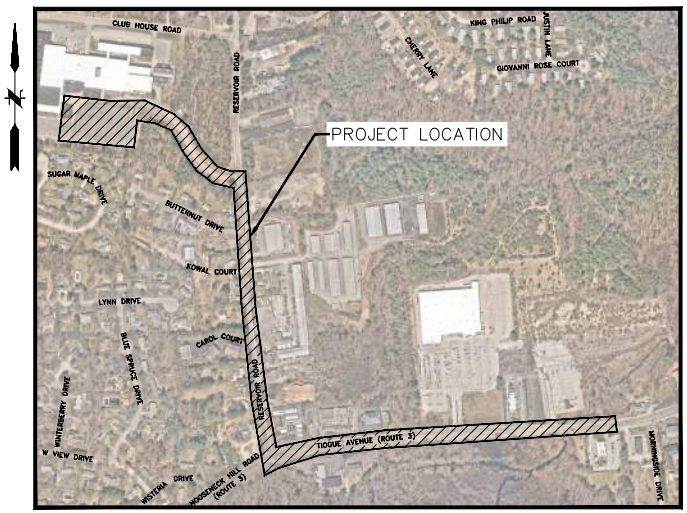
PREPARED FOR

TOWN OF COVENTRY
1670 FLAT RIVER ROAD
COVENTRY, RI 02816

PREPARED BY

FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
401.861.3070
www.fando.com

SCITUATE SURVEYS, INC.
410 TIOGUE AVENUE
COVENTRY, RHODE ISLAND 02816
401 821 8101
LAND SURVEYING/MAPPING /SITE PLANNING



LOCATION MAP
SCALE: 1" = 350'

SHEET INDEX

SHEET No.	SHEET TITLE
GI-001	COVER SHEET
GI-002	GENERAL NOTES AND LEGEND
1 OF 6	EXISTING CONDITIONS UTILITY SURVEY
2 OF 6	EXISTING CONDITIONS UTILITY SURVEY
3 OF 6	EXISTING CONDITIONS UTILITY SURVEY
4 OF 6	EXISTING CONDITIONS UTILITY SURVEY
5 OF 6	EXISTING CONDITIONS UTILITY SURVEY
6 OF 6	EXISTING CONDITIONS UTILITY SURVEY
GI-101	SHEET INDEX PLAN
CU-101	TIOGUE AVENUE SEWER PLAN & PROFILE STA. 10+00 TO STA. 22+00
CU-102	TIOGUE AVENUE SEWER PLAN & PROFILE STA. 22+00 TO STA. 32+00
CU-103	RESERVOIR ROAD SEWER PLAN & PROFILE STA. 40+00 TO STA. 52+00
CU-104	RESERVOIR ROAD SEWER PLAN & PROFILE STA. 52+00 TO STA. 58+00
CU-105	HIGH SCHOOL ACCESS SEWER PLAN & PROFILE STA. 60+00 TO STA. 66+50
CU-106	HIGH SCHOOL ACCESS SEWER PLAN & PROFILE STA. 66+50 TO STA. 74+33
CS-101	MISHNOCK RIVER CROSSING PLAN
LP-101	TEMPORARY AND PERMANENT IMPACT AREAS (FOR ARMY CORPS OF ENGINEERS PURPOSES)
CD-501	EROSION AND SEDIMENT CONTROL DETAILS
CD-502	SANITARY SEWER DETAILS
CD-503	SANITARY SEWER DETAILS
CD-504	SANITARY SEWER DETAILS

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PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

GI-001

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CIVIL GENERAL NOTES

GENERAL

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDINGS AND ADJACENT SITE ELEMENTS INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED FROM PLANS OF RECORD. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY SCITUATE SURVEYS, INC., DURING SUMMER 2024.
6. TOPOGRAPHIC ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) DATUM. THE HORIZONTAL LOCATIONS SHOWN ON THIS PLAN REFERENCE THE NORTH AMERICAN DATUM OF 1983 (NAD83).
7. GEOTECHNICAL DATA INCLUDING PROBE AND BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM SOIL X CORP.
8. WETLANDS WERE DELINEATED AND FIELD LOCATED BY FUSS & O'NEILL, INC ON APRIL 1, 2024.
9. FEMA FLOODPLAIN AND FLOODWAY LINES WERE DELINEATED FROM FEMA FIRM GIS DATA.

WORK RESTRICTIONS

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
2. WORK IS RESTRICTED TO THE 7:00 TO 3:00 ON MONDAY THROUGH FRIDAY

REGULATORY REQUIREMENTS

1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

EROSION AND SEDIMENT CONTROL

1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE EROSION AND SEDIMENT CONTROL DRAWINGS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

DEMOLITION

1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.

CONSTRUCTION LAYOUT

1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
4. DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.
5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

EARTHWORK

1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION.

RI: "DIG SAFE" AT 1-888-344-7233.

2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.

UTILITIES

1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
3. PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
4. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
5. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

   MINIMUM INTERIOR DIAMETERS:
   0 TO 20 FEET DEEP; 4 FEET.
   20 FEET OR GREATER; 5 FEET.

5. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:

   IN PAVEMENTS AND CONCRETE SURFACES: FLUSH
   IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
   IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS:
   1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.

6. INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER AND ENGINEER.

PAVEMENT

1. AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

SITE RESTORATION

1. PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

LEGEND

IR	IRON ROD
RIHB	RHODE ISLAND HIGHWAY BOUND FOUND
RIHB	RHODE ISLAND HIGHWAY BOUND NOT FOUND
	UTILITY POLE
L.P.	LIGHT POLE
	FLOOD LIGHT
	STREET LIGHT
	SIGN
FP	FLAG POLE
CB	CATCH BASIN
CB/DI	CATCH BASIN/DROP INLET
FES	FLARED END SECTION
DMH	STORM MANHOLE
EMH	ELECTRIC MANHOLE
SMH	SANITARY MANHOLE
	ELECTRIC BOX
	HYDRANT
WV	WATER VALVE
	WATER SPIGOT
WMH	WATER MANHOLE
	WATER SHUTOFF
	WATER METER
	WELL
IRR	IRRIGATION HANDHOLE
FDC	FIRE DEPARTMENT CONNECTION
GG	GAS GATE
	GAS METER
	UTILITY PAINT SPOT
	BORING HOLE
WF	WETLANDS FLAG
	DECIDUOUS TREE
MB	MAIL BOX
	BOLLARD
MP	METAL POST
	EVERGREEN TREE
SWL	SINGLE WHITE LINE

LAYOUT LEGEND

I.D.	ITEM
BA	BOLLARD
BC	BITUMINOUS CONCRETE LIP CURB
CA	BURRIED CONCRETE ANCHOR FOR END RAIL
CC	CONCRETE CURB
CS	CROSS WALK SIGN
CW	CONCRETE SIDEWALK
DE	"DO NOT ENTER" SIGN
DP	CONCRETE DUMPSTER PAD
DR	TURN SIGN
DY	4" DOUBLE YELLOW PAINTED LINE
FS	FREE STANDING SITE SIGN
GR	GUIDE RAIL WITH STELL POSTS
HR	HANDICAP RAMP - SEE SHEET ??
LO	PAVED LEAK-OFF
PL	PAINTED ISLAND - 4" WHITE LINES
RG	RAIN GARDEN
RI	RAISED ISLAND
RW	RETAINING WALL
SA	SCREENED SERVICE AREA ENCLOSURE ON CONCRETE PAD. SEE ARCHITECTURAL DRAWINGS
SB	12" WIDE WHITE STOP BAR
SS	STOP SIGN
WL	4" WHITE PAINTED LINE
XC	8" WIDE PAINTED CROSS WALK, 24" WIDE STRIPE

PROPOSED LEGEND

200	PROPOSED CONTOURS
+ 201.0	PROPOSED SPOT ELEVATION
	PROPOSED CLEARING LIMIT (APPROX.)
	CONSTRUCTION HAUL ROUTE
	PROPERTY LINE
R	PROPOSED ROOF DRAIN
C	PROPOSED CABLE LINE
S	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM DRAINAGE LINE
T	PROPOSED TELEPHONE LINE
W	PROPOSED WATER MAIN
G	PROPOSED GAS MAIN
E	PROPOSED ELECTRICAL SERVICE
	PROPOSED GUIDE RAIL
	PROPOSED HYDRANT AND GATE VALVE
	PROPOSED REINFORCED CONCRETE CULVERT END
	PROPOSED YARD DRAIN
	PROPOSED TYPE "C-L" CATCH BASIN
	PROPOSED TYPE "C" CATCH BASIN
	PROPOSED HEAD WALL
	PROPOSED STORM MANHOLE
	PROPOSED STORM DRAIN
	PROPOSED SANITARY MANHOLE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED BITUMINOUS CURB
	PROPOSED RETAINING WALL
	TOWN WETLANDS LINE
	PROPOSED EROSION CONTROL MAT
	PROPOSED CONCRETE WALK
	PROPOSED CHAIN LINK FENCE
	PROPOSED BARB WIRE FENCE
	PROPOSED STOCKADE FENCE
	PROPOSED SILT FENCE
	PROPOSED HAY BALES
	PROPOSED HAYBALE CHECK DAM

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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			WTD	DGB

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DATUM:
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GRAPHIC SCALE

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TOWN OF COVENTRY

GENERAL NOTES AND LEGEND

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

GI-002

File: J:\DWG\P\2022\0052\A40\Civil\Plan\20220052A40_COV01.dwg Layout: GI-002 Plotted: 2025-02-03 4:04 PM Saved: 2025-01-24 4:03 PM User: Walter.Dyleg
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GRAPHIC SCALE

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TOWN OF COVENTRY

SHEET INDEX PLAN

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
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GI-101

File: J:\DWG\P\20220052\A40\Civil\Plan\20220052A40_STP01.dwg Layout: GI-101 INDEX Plotted: 2025-02-03 4:06 PM Saved: 2025-01-31 3:31 PM User: Walter Dylag
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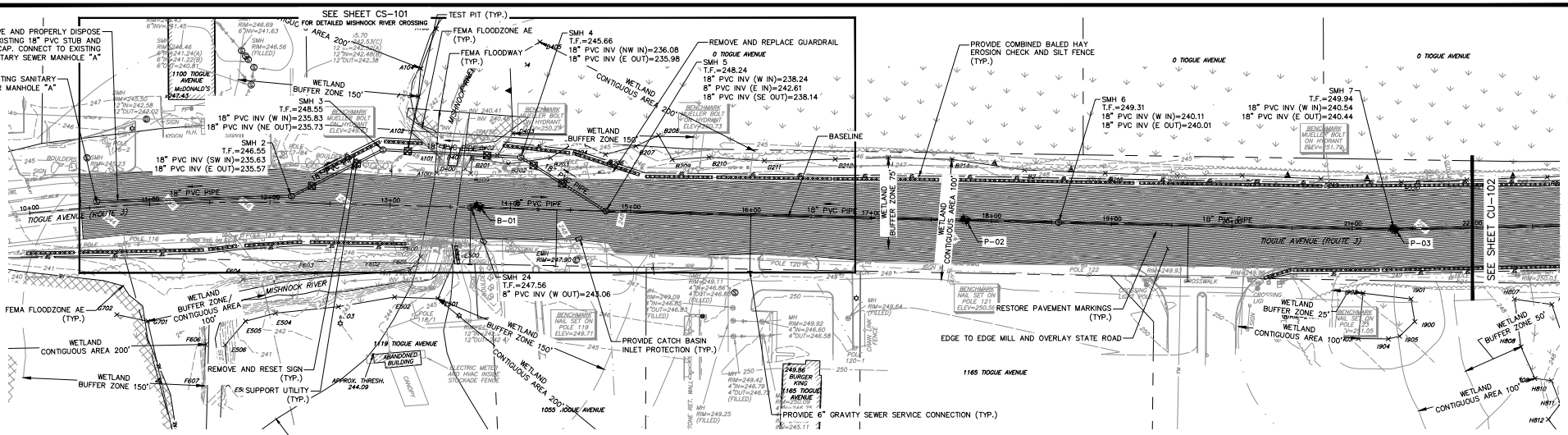

PLAN STA. 10+00 – 22+00
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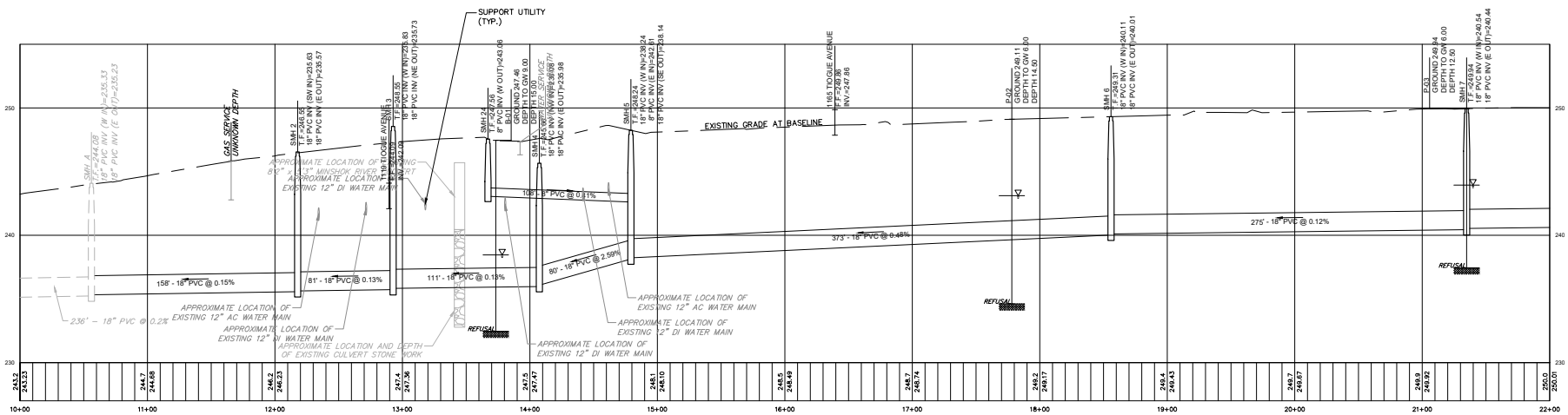

PROFILE STA. 10+00 – 22+00
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NOTES:

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GRAPHIC SCALE

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TOWN OF COVENTRY

TIOGUE AVENUE SEWER PLAN & PROFILE
STA. 10+00 TO STA. 22+00

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
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CU-101

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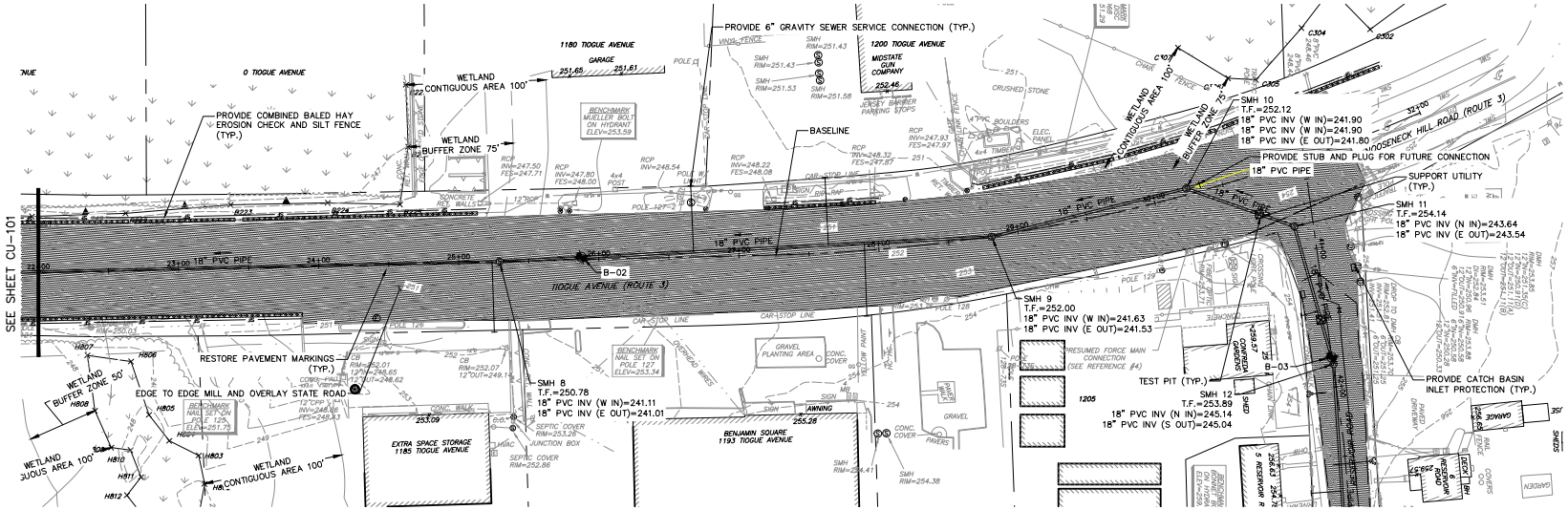

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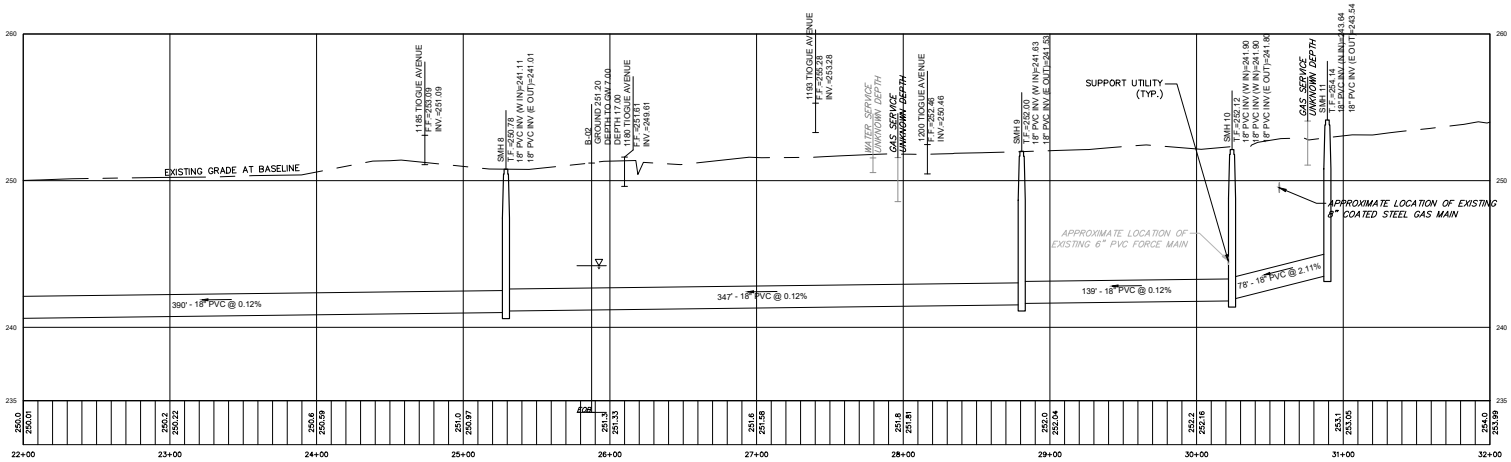

PROFILE STA. 22+00 – 32+00
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TOWN OF COVENTRY
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CU-102

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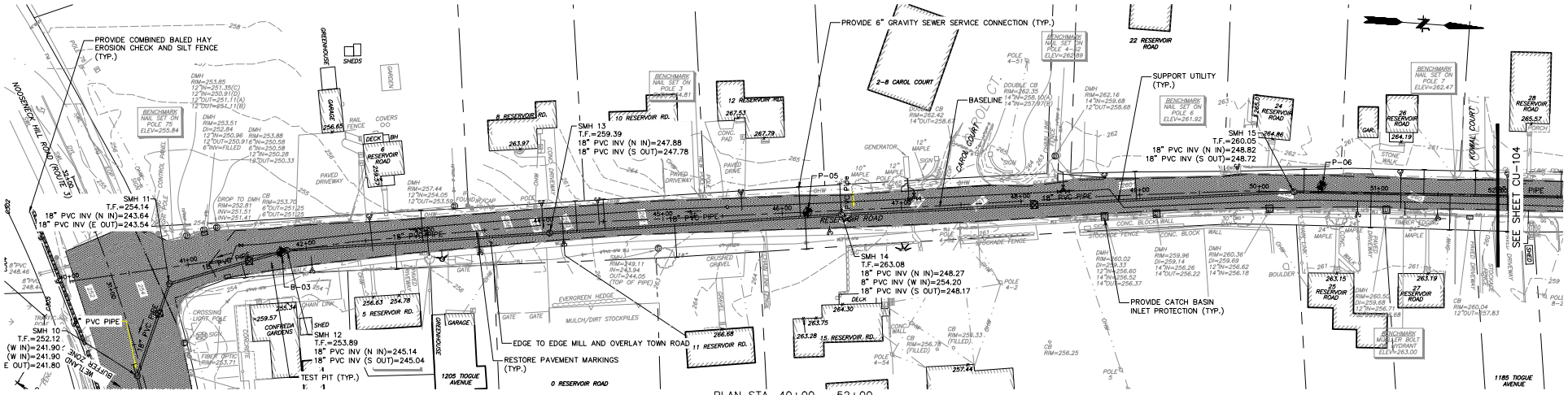

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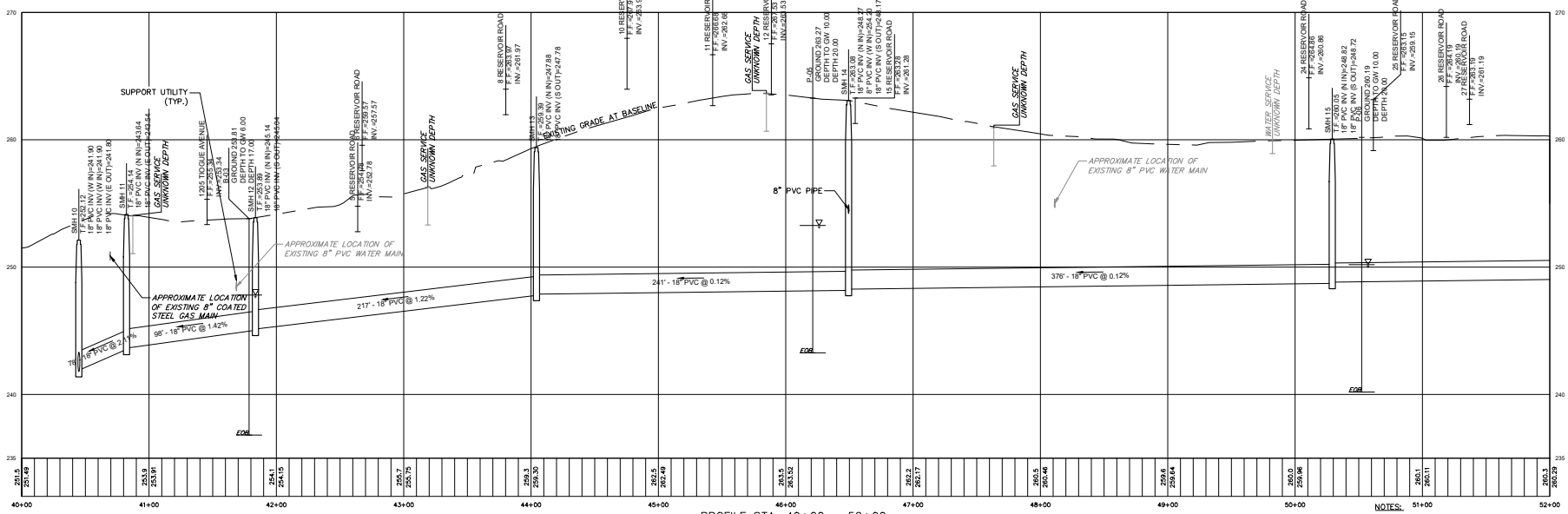

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COVENTRY HIGH SCHOOL SEWER EXTENSION
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CU-103

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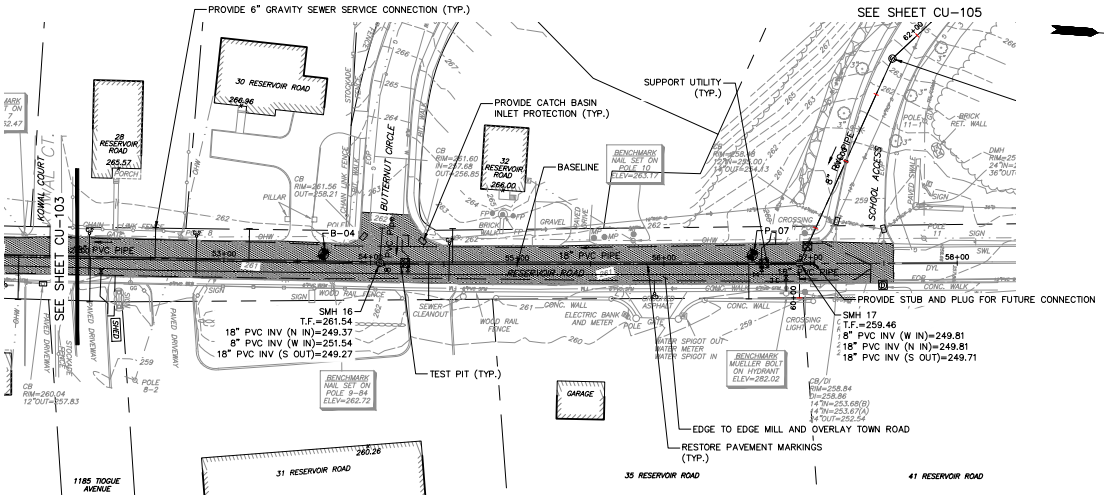

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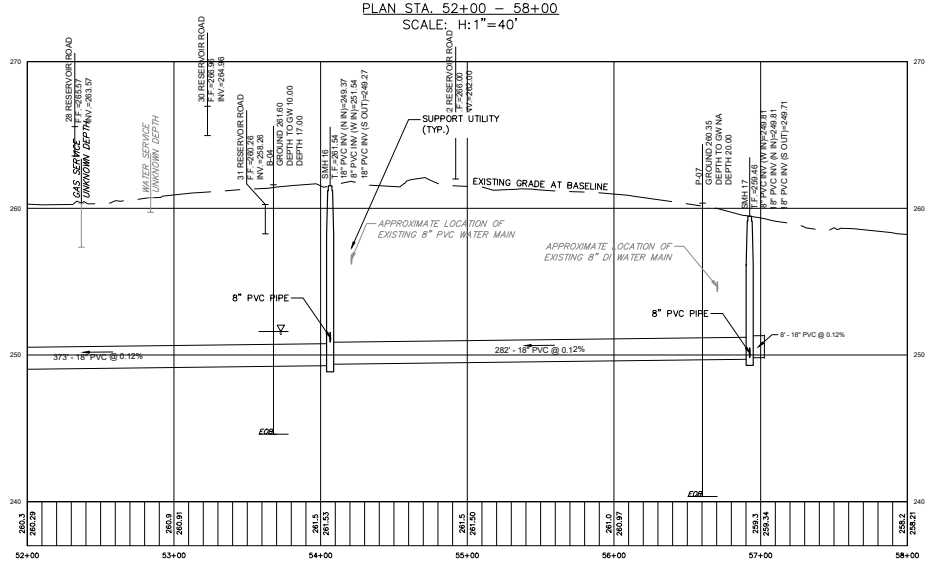

PROFILE STA. 52+00 – 58+00
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TOWN OF COVENTRY

RESERVOIR ROAD SEWER PLAN & PROFILE
STA. 52+00 TO STA. 58+00

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

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DATE: FEBRUARY 2025

CU-104

File: J:\DWG\P\2022\0052\A40\Civil\Plan\2022005 2A40_STP01.dwg Layout: CU-104 (RESERVOIR RD.) Plotted: 2025-02-03 4:06 PM Saved: 2025-01-31 3:31 PM User: Walter Dylag
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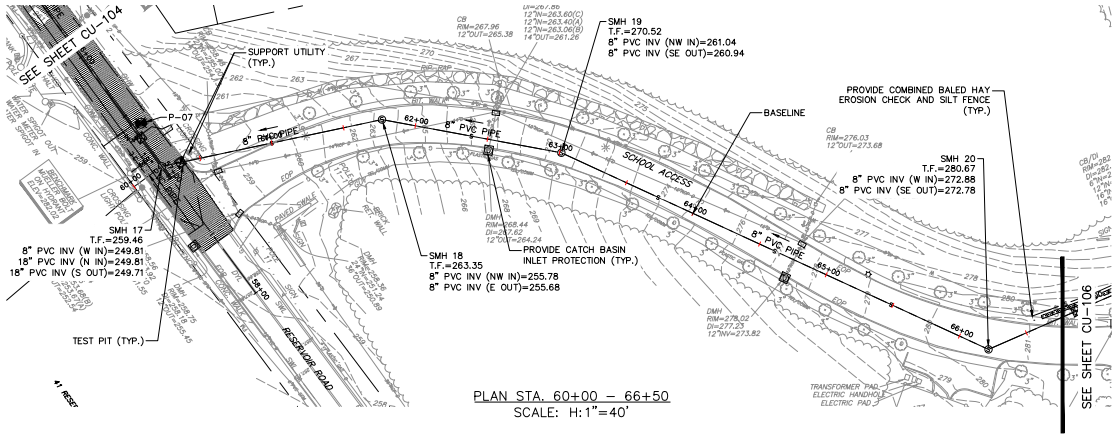
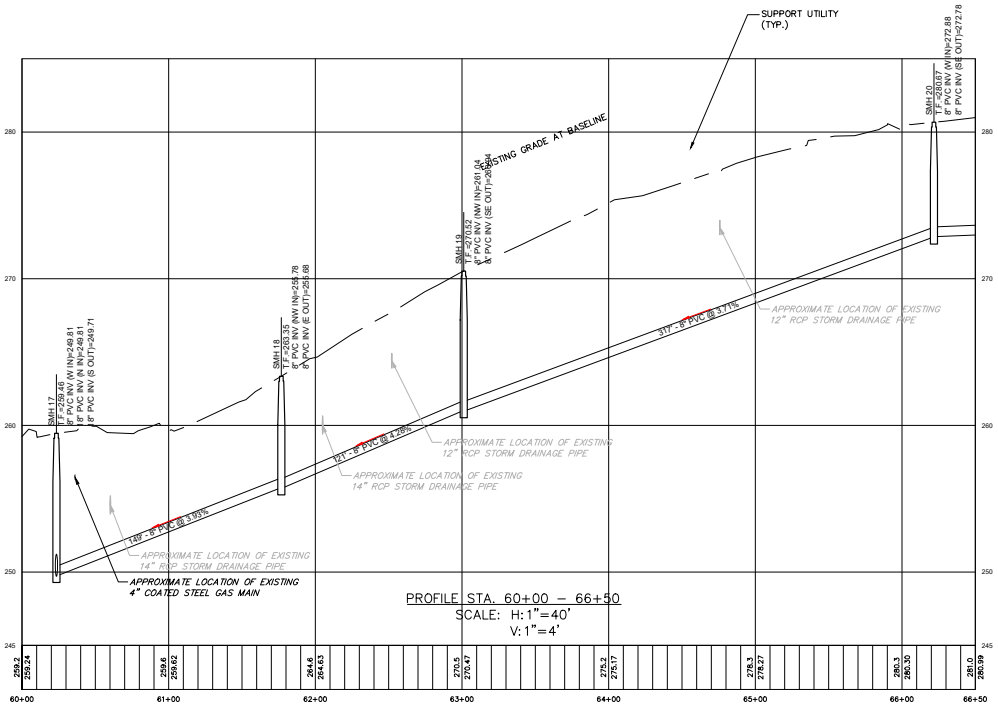


PLAN STA. 60+00 – 66+50
SCALE: H:1"=40'



PROFILE STA. 60+00 – 66+50
SCALE: H:1"=40'
V:1"=4'

NOTES:

1. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION.

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER (WTD)	REVIEWER (DGB)

SEAL

SEAL

SCALE:
HORZ.: 1" = 40'
VERT.: 1" = 4'
DATUM:
HORZ.: NAD83
VERT.: NAVD88
40 20 0 40
GRAPHIC SCALE

FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
401.861.3070
www.fando.com

TOWN OF COVENTRY

HIGH SCHOOL ACCESS SEWER PLAN & PROFILE
STA. 60+00 TO STA. 66+50

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

CU-105

File: J:\DWG\P\2022\0052\A40\Civil\Plan\20220052A40_STP01.dwg Layout: CU-105 (HS ACCESS) Plotted: 2025-02-03 4:06 PM Saved: 2025-01-31 3:31 PM User: Walter Dylag
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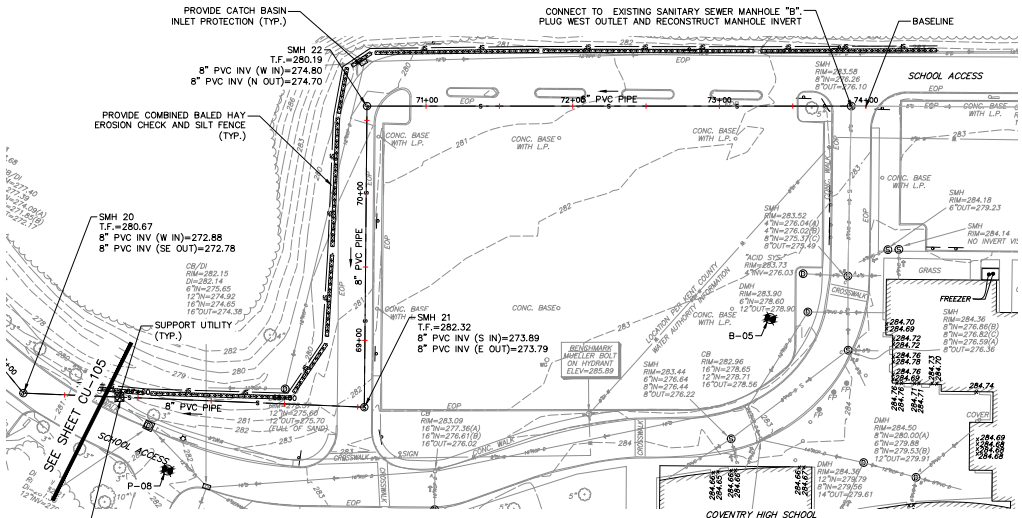
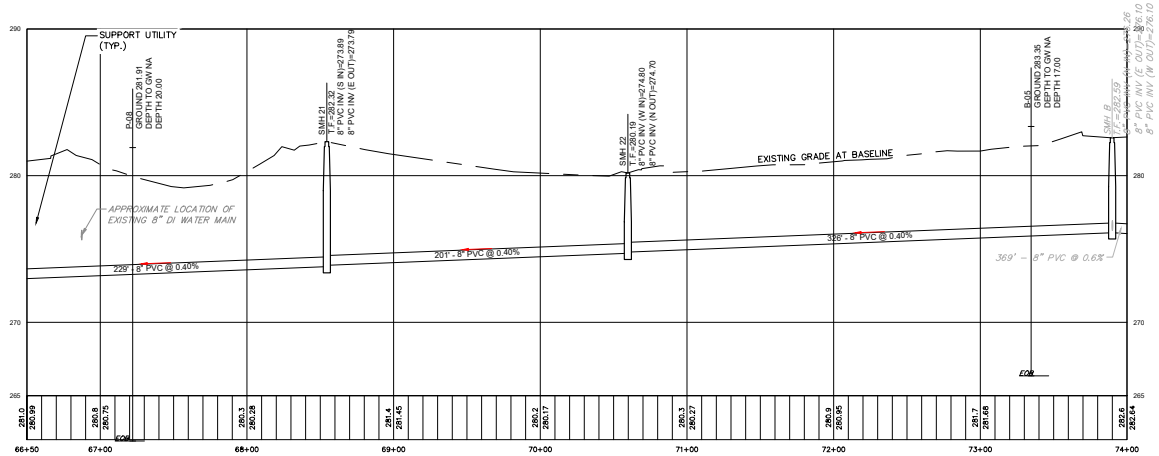


PLAN STA. 66+50 – 74+00
SCALE: H:1"=40'



PROFILE STA. 66+50 – 74+00
SCALE: H:1"=40'
V:1"=4'

NOTES:

1. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION.
2. RESTORE PAVEMENT MARKINGS AFTER PAVING IS COMPLETED.

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER (WTD)	REVIEWER (DGB)

SEAL

SEAL

SCALE:
HORZ.: 1" = 40'
VERT.: 1" = 4'
DATUM:
HORZ.: NAD83
VERT.: NAVD88
40 20 0 40
GRAPHIC SCALE

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PROVIDENCE, RI 02908
401.861.3070
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TOWN OF COVENTRY

HIGH SCHOOL ACCESS SEWER PLAN & PROFILE
STA. 66+50 TO STA. 74+00

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

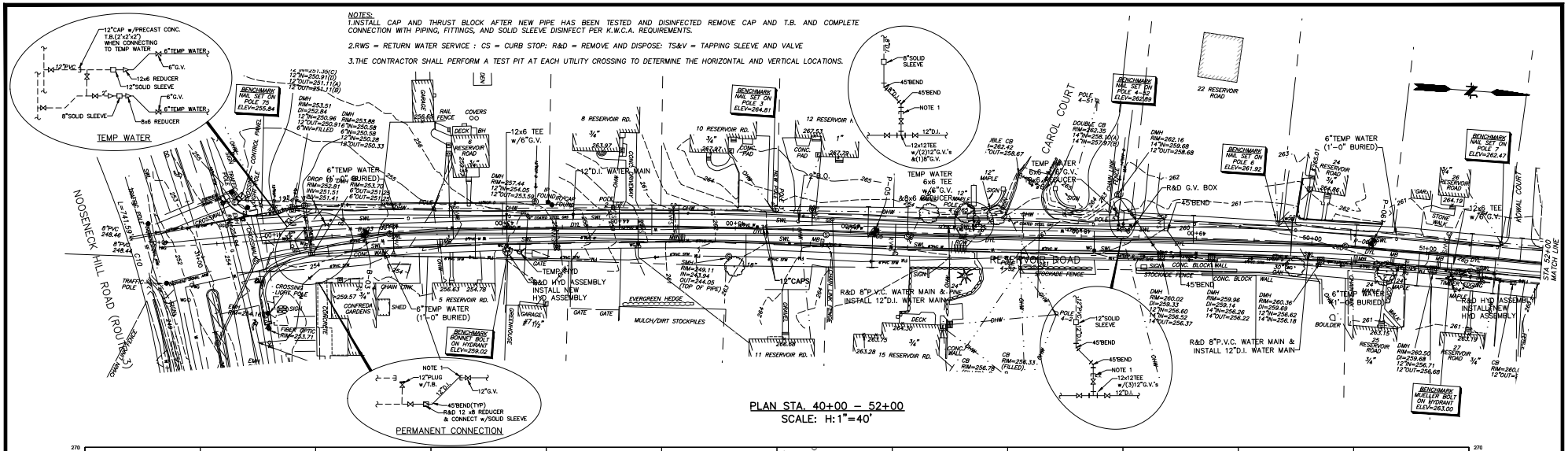
CU-106

File: J:\DWG\P\2022\0052\A40\Civil\Plan\20220052A40_STP01.dwg Layout: CU-106 (HS ACCESS) Plotted: 2025-02-03 4:06 PM Saved: 2025-01-31 3:31 PM User: Walter Dylag
PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: FO.STB
LAYER STATE:
MS VIEW:

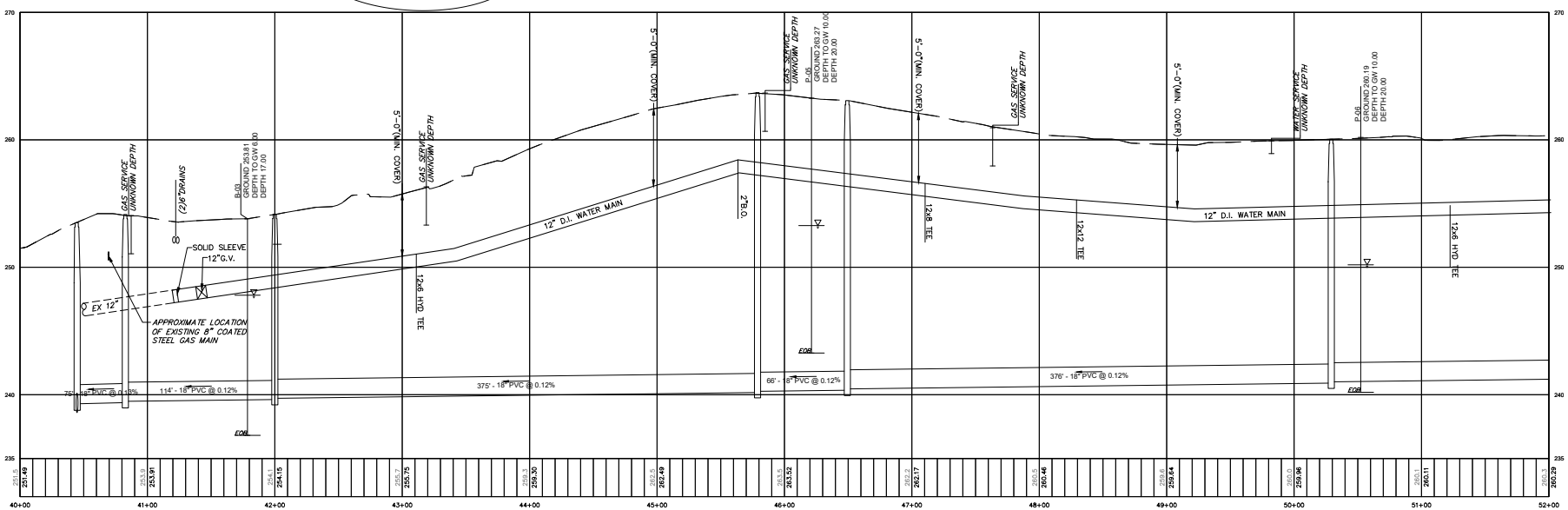
NOTES:
1.INSTALL CAP AND THRUST BLOCK AFTER NEW PIPE HAS BEEN TESTED AND DISINFECTED REMOVE CAP AND T.B. AND COMPLETE CONNECTION WITH PIPING, FITTINGS, AND SOLID SLEEVE DISINFECT PER K.W.C.A. REQUIREMENTS.

2.RWS = RETURN WATER SERVICE : CS = CURB STOP: R&D = REMOVE AND DISPOSE: TS&V = TAPPING SLEEVE AND VALVE

3.THE CONTRACTOR SHALL PERFORM A TEST PIT AT EACH UTILITY CROSSING TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATIONS.



PLAN STA. 40+00 – 52+00
SCALE: H:1"=40'



PROFILE STA. 40+00 – 52+00
SCALE: H:1"=40'
V:1"=4'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			RMH	JGA

JAMES J. GEREMIA No. 4521 REGISTERED PROFESSIONAL ENGINEER

JAMES J. GEREMIA & ASSOCIATES, INC.
CONSULTING ENVIRONMENTAL ENGINEERS & SCIENTISTS
272 W. Exchange Street Suite 201 Providence,RI 02903-1061
Phone: 401-454-7000 Fax: 401-454-7415

SCALE:
HORZ.: 1" = 40'
VERT.: 1" = 4'
DATUM:
HORZ.: NAD83
VERT.: NAVD88
40 20 0 40
GRAPHIC SCALE

KENT COUNTY WATER AUTHORITY
RESERVOIR ROAD WATER PLAN & PROFILE
STA. 40+00 TO STA. 52+00

COVENTRY RHODE ISLAND

PROJ. No.: 25-001
DATE: JANUARY 2025

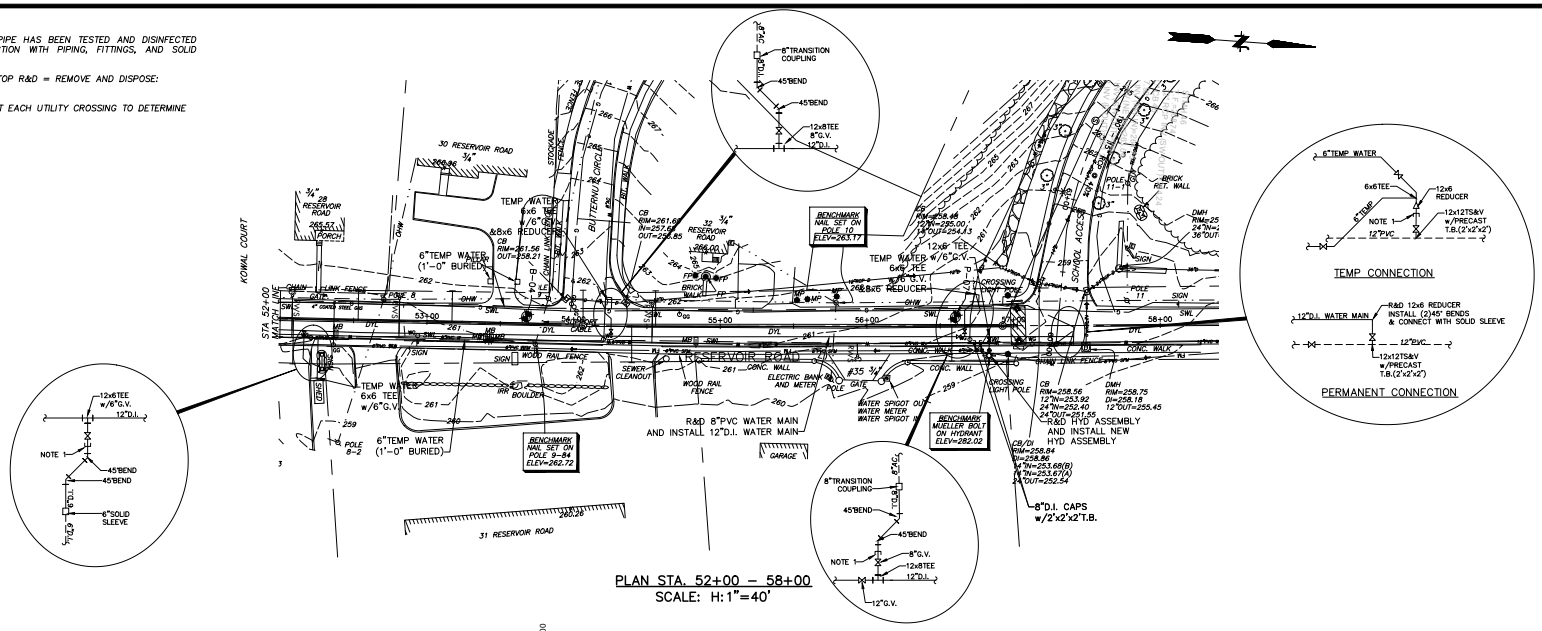
CU-201

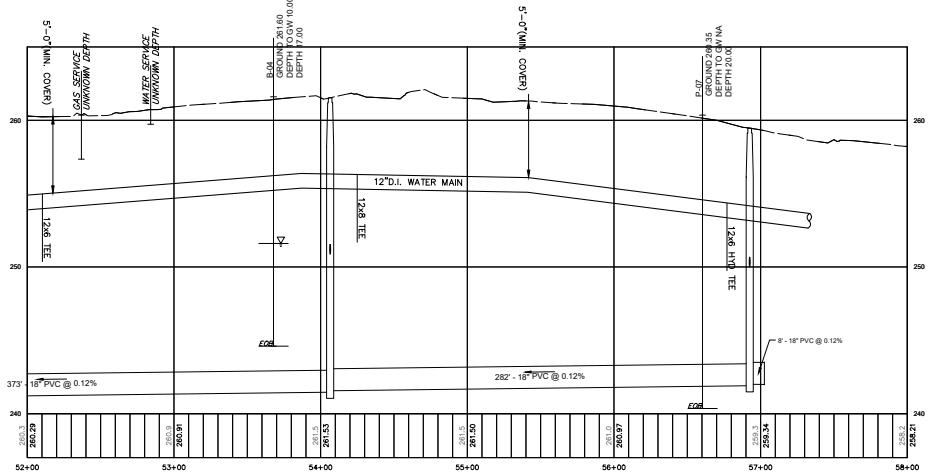
File: Z:\Projects\KCWA\KCWA 2025\KCWA 2025.dwg Layout: CU-201 (RESERVIOR RD) Plotted: 2025-01-27 11:26 AM Saved: 2025-01-27 11:14 AM User: Oliver
PC3: _AUTOCAD PDF (HIGH QUALITY PRINT).PC3 STBCTB: CHRIS04.CTB
LAYER STATE:
MS VIEW:

NOTES:
1.INSTALL CAP AND THRUST BLOCK AFTER NEW PIPE HAS BEEN TESTED AND DISINFECTED REMOVE CAP AND T.B. AND COMPLETE CONNECTION WITH PIPING, FITTINGS, AND SOLID SLEEVE DISINFECT PER K.W.C.A. REQUIREMENTS.

2.RWS = RETURN WATER SERVICE : CS = CURB STOP R&D = REMOVE AND DISPOSE:
TS&V = TAPPING SLEEVE AND VALVE

3.THE CONTRACTOR SHALL PERFORM A TEST PIT AT EACH UTILITY CROSSING TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATIONS.





No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			RMH	JGA

JAMES J. GEREMIA No. 4521 REGISTERED PROFESSIONAL ENGINEER

JAMES J. GEREMIA & ASSOCIATES, INC.
CONSULTING ENVIRONMENTAL ENGINEERS & SCIENTISTS
272 W. Exchange Street Suite 201 Providence,RI 02903-1061
Phone: 401-454-7000 Fax: 401-454-7415

SCALE:
HORZ.: 1" = 40'
VERT.: 1" = 4'
DATUM:
HORZ.: NAD83
VERT.: NAVD88
40 20 0 40
GRAPHIC SCALE

KENT COUNTY WATER AUTHORITY

RESERVOIR ROAD WATER PLAN & PROFILE
STA. 52+00 TO STA. 58+00

COVENTRY RHODE ISLAND

PROJ. No.: 25-001
DATE: JANUARY 2025

CU-202

File: Z:\Projects\KCWA\KCWA 2025\KCWA 2025.dwg Layout: CU-202 (RESERVIOR RD) Plotted: 2025-01-27 11:26 AM Saved: 2025-01-27 11:14 AM User: Oliver
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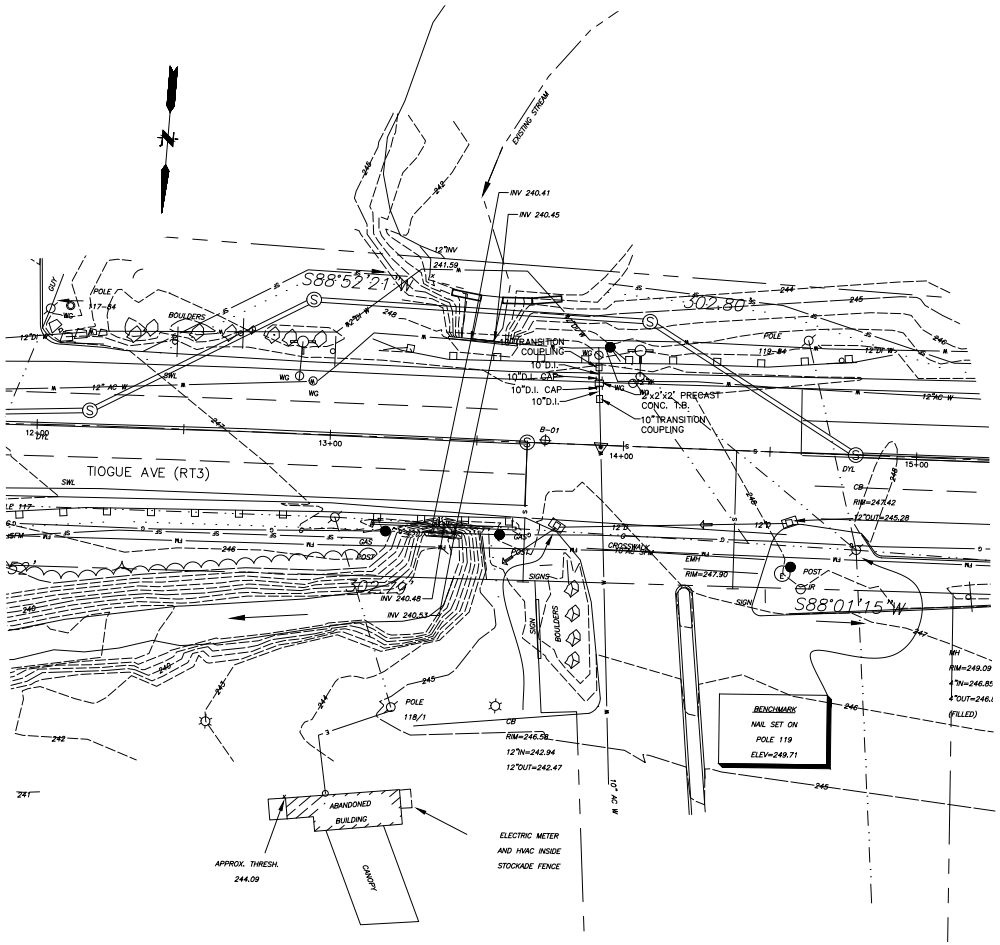

PLAN STA. 15+25 – 11+50
SCALE: 1"=20'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			RMH	JGA

JAMES J. GEREMIA
No. 4521
REGISTERED PROFESSIONAL ENGINEER

JAMES J. GEREMIA & ASSOCIATES, INC.
CONSULTING ENVIRONMENTAL ENGINEERS & SCIENTISTS
272 W. Exchange Street Suite 201 Providence,RI 02903-1061
Phone: 401-454-7000 Fax: 401-454-7415

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD83
VERT.:
20 10 0 20
GRAPHIC SCALE

KENT COUNTY WATER AUTHORITY
TIOGUE AVE WATER PLAN
12+00 TO STA. 15+25
COVENTRY RHODE ISLAND

PROJ. No.: 25-001
DATE: JANUARY 2025
CU-203

File: Z:\Projects\KCWA\KCWA 2025\KCWA 2025.dwg Layout: CU-203 (TIOGUE) Plotted: 2025-01-27 11:26 AM Saved: 2025-01-27 11:14 AM User: Oliver
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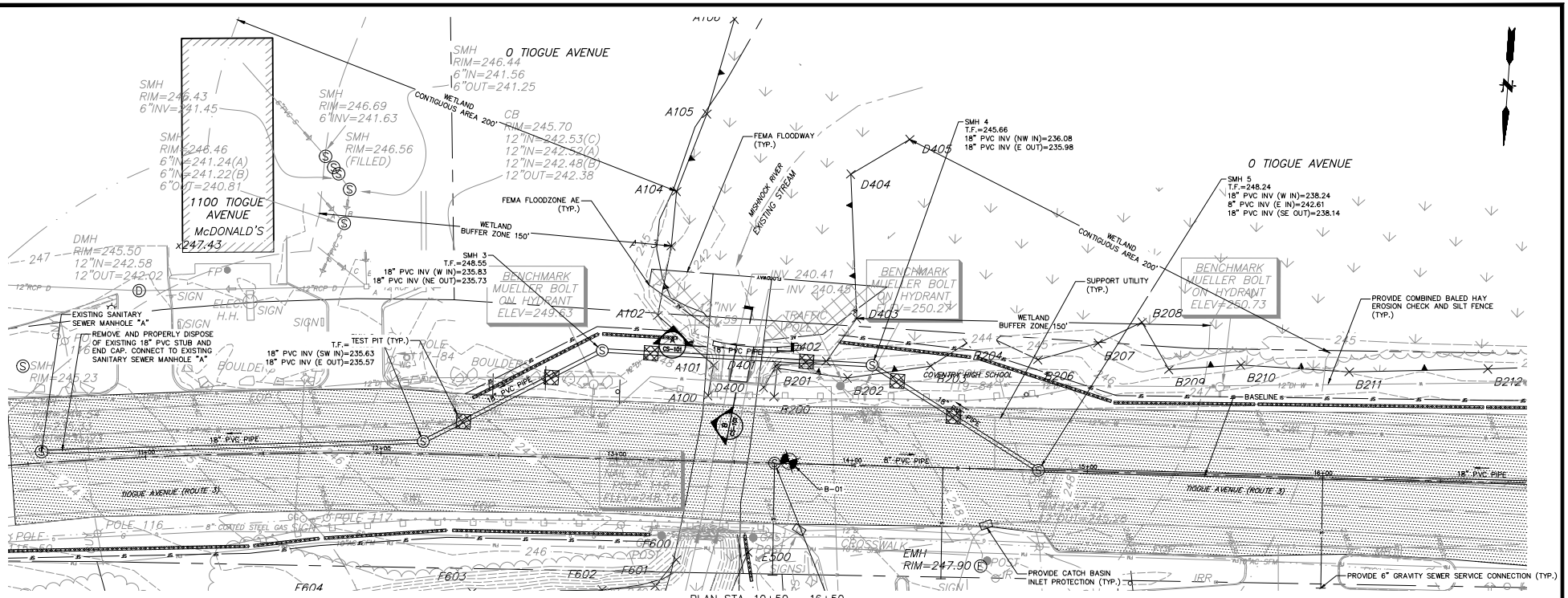
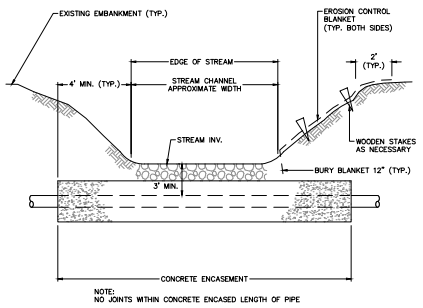
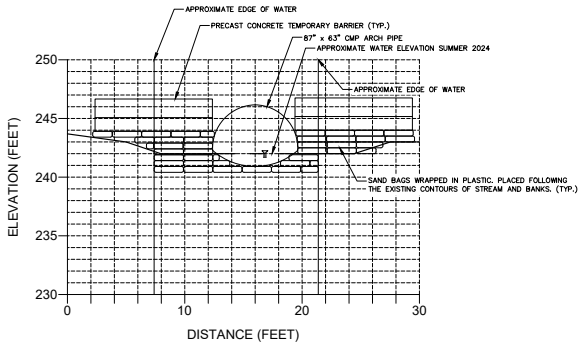


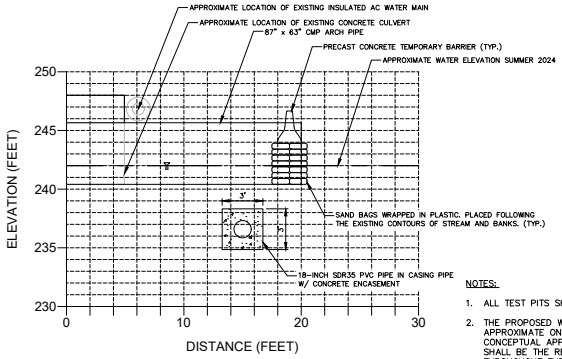
PLAN STA. 10+50 – 16+50
SCALE: H:1"=40'



STREAM CROSSING
SCALE: NOT TO SCALE



(A) MISHNOCK RIVER CROSSING SECTION A
SCALE: N.T.S.



(B) MISHNOCK RIVER CROSSING SECTION B
SCALE: N.T.S.

NOTES:

1. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION.
2. THE PROPOSED WATER CONTROL DEPICT HEREIN IS APPROXIMATE ONLY AND IS INTENDED TO ONLY DEPICT A CONCEPTUAL APPROACH TO WATER CONTROL. WATER CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF CONSTRUCTION.

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			WTD	DGB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD83
VERT.: NAVD88
20 10 0 20
GRAPHIC SCALE

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TOWN OF COVENTRY

MISHNOCK RIVER CROSSING PLAN

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

CS-101

File: J:\DWG\P\2022\0052\A40\Civil\Plan\20220052A40_STP01.dwg Layout: CS-101 (RIVER CROSSING) Plotted: 2025-02-03 4:06 PM Saved: 2025-01-31 3:31 PM User: Walter.Dylag
PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: FO.STB
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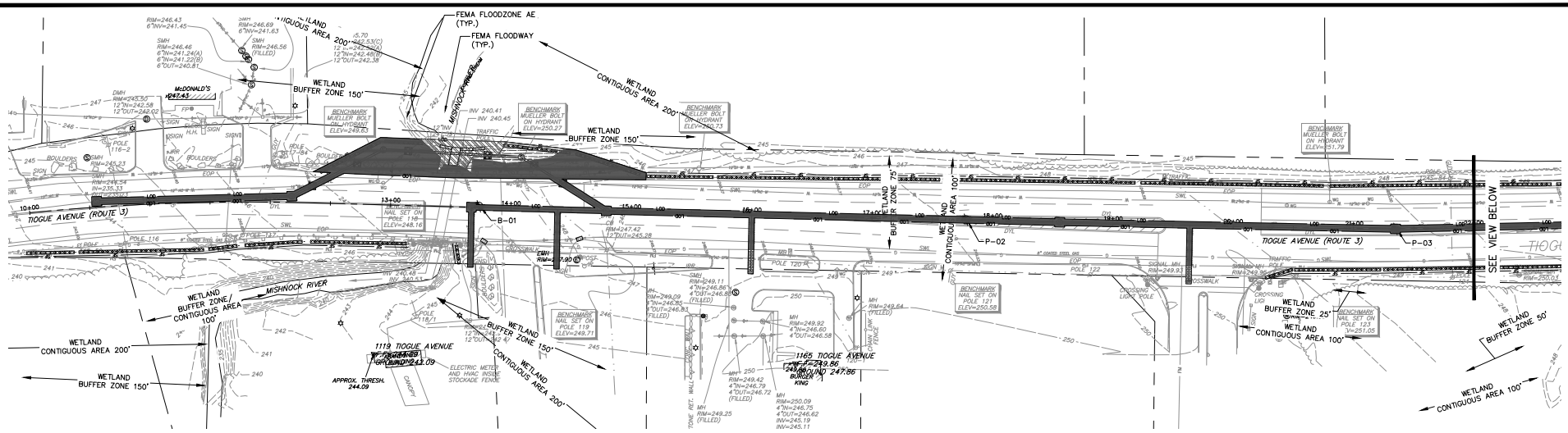


PLAN STA. 10+00 – 22+00
SCALE: H:1"=40'

NOTES:

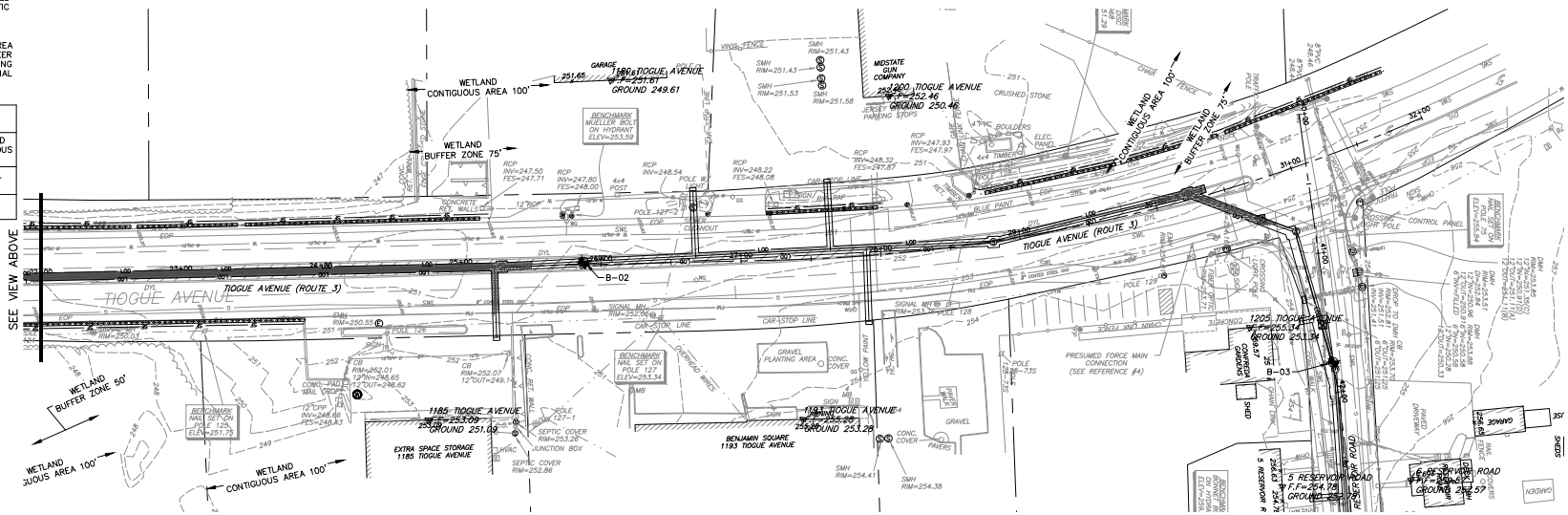
1. PERMANENT AND TEMPORARY WETLAND IMPACT AREAS SHALL BE RESTORED WITH WETLAND SEED MIX. PERIPHERAL AQUATIC RESOURCE AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH WETLAND SEE MIX AND/OR LIVE STEAKS. RESTORATION APPROACH WILL BE DETERMINED BY THE ENGINEER BASED ON THE ELEVATION OF THE DISTURBED AREA AND THE SURROUNDING WETLAND CHARACTERISTICS. ENGINEER WILL DETERMINE THE STABILITY OF RESTORATION TYPE DURING CONSTRUCTION AND REPORT SQUARE FOOTAGE OF ADDITIONAL DISTURBED AREAS TO THE ARMY CORPS OF ENGINEERS.

IMPACT AREA SUMMARY

	WATERCOURSE	WETLAND FLAGS	WETLAND BUFFER ZONE	WETLAND CONTIGUOUS AREA
TEMPORARY IMPACT	1,010 SF	726 SF	13,238 SF	976 SF
PERMANENT IMPACT	0 SF	20 SF	140 SF	40 SF

LEGEND:

- WATERCOURSE IMPACTS
- WETLAND IMPACTS
- WETLAND BUFFER AREA IMPACTS
- WETLAND CONTIGUOUS AREA IMPACTS



PLAN STA. 22+00 – 32+00
SCALE: H:1"=40'

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			WTD	DGB

SEAL

SEAL

SCALE:
HORZ.: 1" = 40'
VERT.:
DATUM:
HORZ.: NAD83
VERT.: NAVD88
40 20 0 40
GRAPHIC SCALE

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TOWN OF COVENTRY

TEMPORARY AND PERMANENT IMPACT AREAS (FOR ARMY CORPS OF ENGINEERS PURPOSES)

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

LP-101

File: J:\DWG\P\2022\0052\A40\Civil\Plan\20220052A40_STP01.dwg Layout: LP-101 Plotted 2025-02-03 4:06 PM Saved: 2025-01-31 3:31 PM User: Walter Dyke
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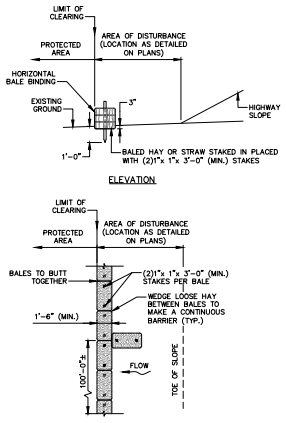
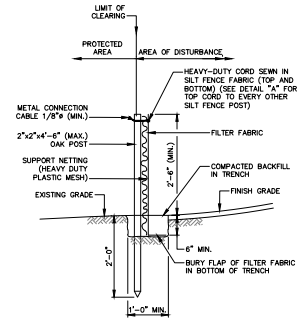


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT AS CALLED FOR ON PLANS.
3. AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.

BALED HAY EROSION CHECK (R.I. STD. 9.1.0)

NOT TO SCALE

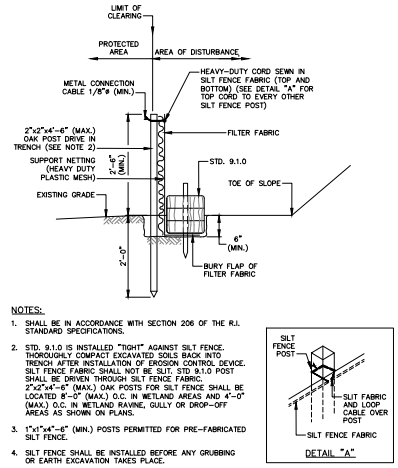


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

SILT FENCE DETAIL (R.I. STD. 9.2.0)

NOT TO SCALE

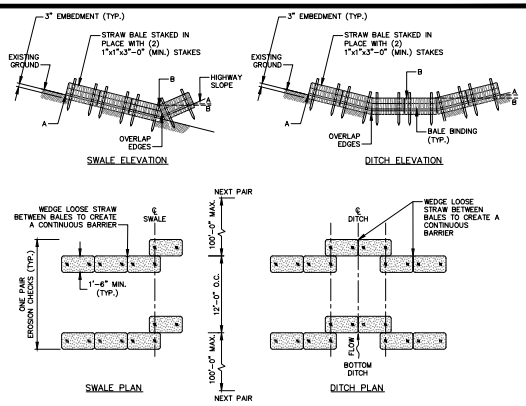


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

BALED HAY EROSION CHECK AND SILT FENCE COMBINED (R.I. STD. 9.3.0)

NOT TO SCALE

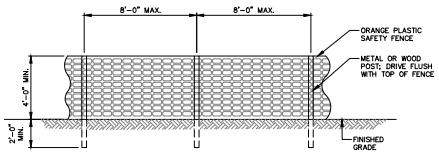


NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE EMBANKMENT OR IN DRAINAGE DITCHES AS CALLED FOR ON THE PLANS.
3. THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND, HIGHWAY SLOPE OR DITCH SECTION.
4. POINTS "A" SHOULD BE AT A HIGHER ELEVATION THAN POINTS "B".

STRAW BALE CHECK DAM (SWALE) (R.I. STD. 9.4.0)

NOT TO SCALE

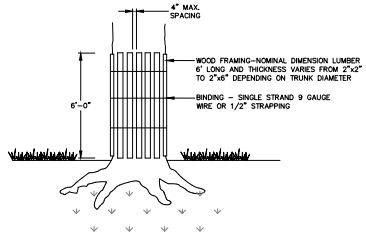


NOTE:

1. FENCE SHALL BE PLACED AT DRIPLINE OF TREE OR TREE GROUPING.

TREE PROTECTION

NOT TO SCALE

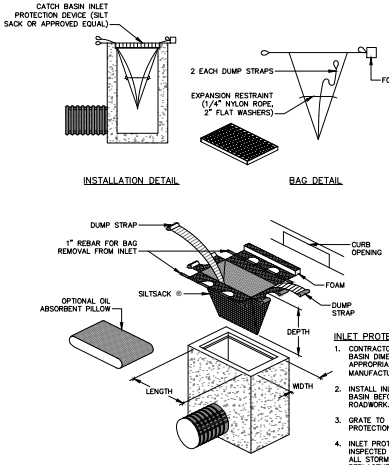


NOTE:

1. SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE RIDOT STANDARD SPECIFICATIONS.

TREE PROTECTION (R.I. STD. 51.1.0)

NOT TO SCALE

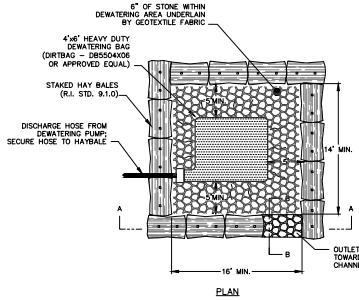


INLET PROTECTION NOTES:

1. CONTRACTOR SHALL MEASURE CATCH BASIN DIMENSIONS AND PROVIDE APPROPRIATELY-SIZED DEVICES PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL INLET PROTECTION IN CATCH BASIN BEFORE COMMENCING ANY ROADWORK.
3. GRATE TO BE PLACED OVER INLET PROTECTION.
4. INLET PROTECTION SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS. CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED WITH TOPSOIL AND GRASS.

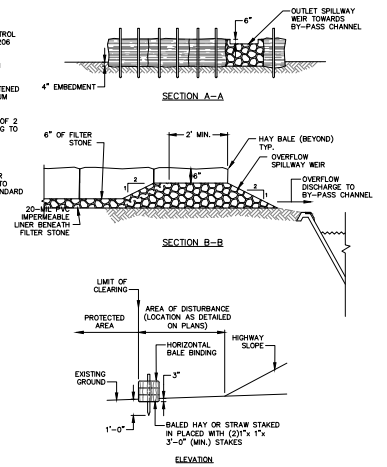
CATCH BASIN INLET PROTECTION

NOT TO SCALE



NOTES:

1. HAY BALES FOR EROSION CONTROL SHALL CONFORM TO SECTION 206 OF THE RIDOT STANDARD SPECIFICATIONS INCLUDING MATERIALS AND CONSTRUCTION METHODS.
2. BALES OF HAY SHALL BE FASTENED WITH WIRE AND HAVE A MINIMUM SIZE OF 1"x1.5'x3'.
3. FILTER STONE SHALL CONSIST OF 2 INCH MINUS STONE CONFORMING TO FS-2 FILTER STONE PER SUBSECTION M10.03.1 OF THE STANDARD SPECIFICATIONS.
4. FILTER FABRIC SHALL BE A NON-WOVEN GEOTEXTILE FILTER FABRIC AND SHALL CONFORM TO SECTION 206.02.2 OF THE STANDARD SPECIFICATIONS.



TEMPORARY DEWATERING BASIN WITH FILTER BAG

NOT TO SCALE

NOTES:

1. THE DEWATERING BAG, DIRTBAG® DB55 OR APPROVED EQUAL, SHALL BE HEAVY DUTY AND CONSIST OF A NONWOVEN BAG SEWN WITH A DOUBLE NEEDLE MATCHING USING A HIGH STRENGTH THREAD.
2. EACH DEWATERING BAG SHALL HAVE A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE A 4-INCH DISCHARGE HOSE. THE BAG SHALL BE PROVIDED WITH STRAPS TO SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
3. MAINTAIN DEWATERING BAG(S) AS NECESSARY TO EFFICIENTLY FILTER SEDIMENT OR PASS WATER AT A REASONABLE RATE. USE OF EXCESSIVE FLOW RATES OR OVERFILLING DIRTBAG® WITH SEDIMENT WILL CAUSE RUPTURES OF THE BAGS OR FAILURE OF THE HOSE ATTACHMENT STRAPS.
4. DISPOSE OF DEWATERING BAG AND CONTENTS AT OFF-SITE DISPOSAL FACILITY IN ACCORDANCE WITH THE APPROVED SOIL MANAGEMENT PLAN OR AS DIRECTED BY ENGINEER.
5. INSTALL DEWATERING BAG AND CRUSHED STONE BEDDING WITH A SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CREATING MORE EROSION. STRAP THE NECK OF DEWATERING BAG TIGHTLY TO THE DISCHARGE HOSE.

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			WTD	DGB

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TOWN OF COVENTRY

EROSION AND SEDIMENT CONTROL DETAILS

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

CD-501

File Path: J:\DWG\P2022\0052\A40\CivilPlan\20220052A40_DET01.dwg, Layout: CD-501, Plotted: Mon, Feb 03, 2025 - 4:06 PM User: RyanMorais Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO STB
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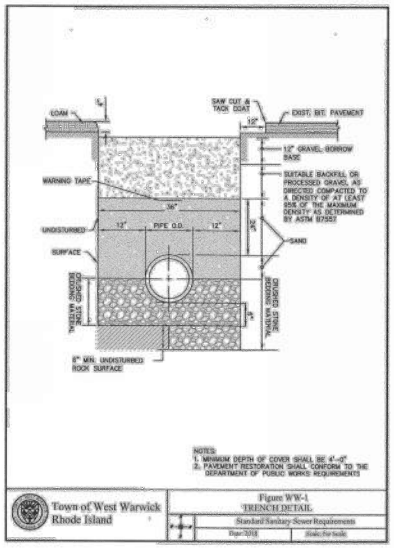

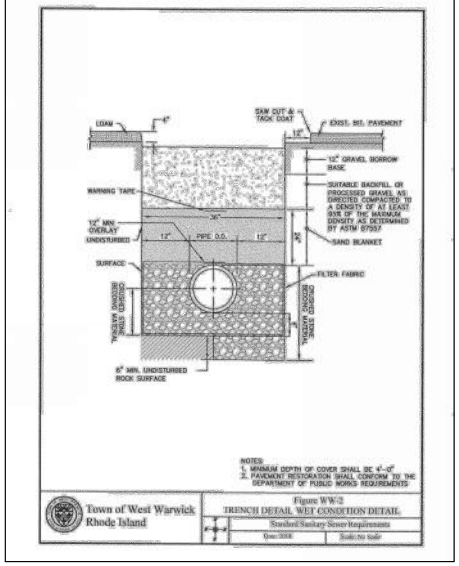

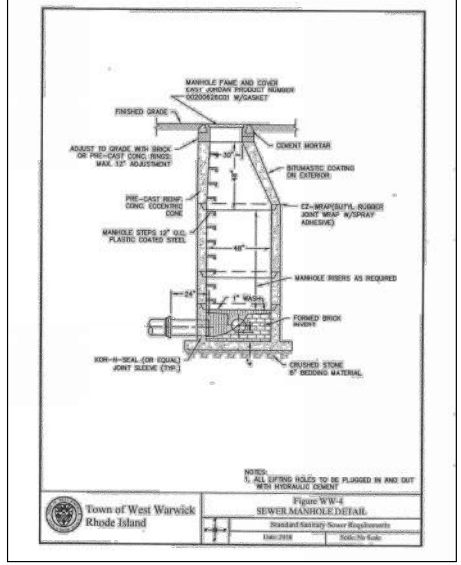

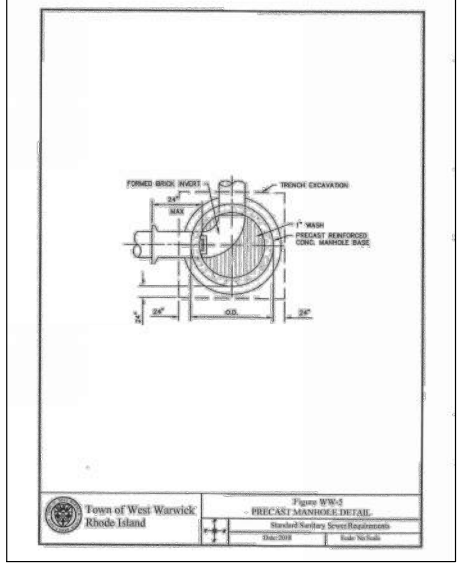

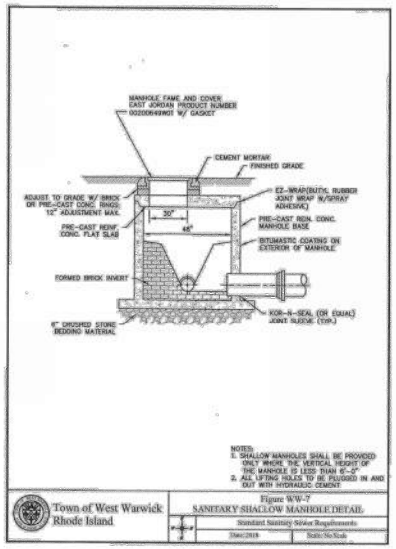

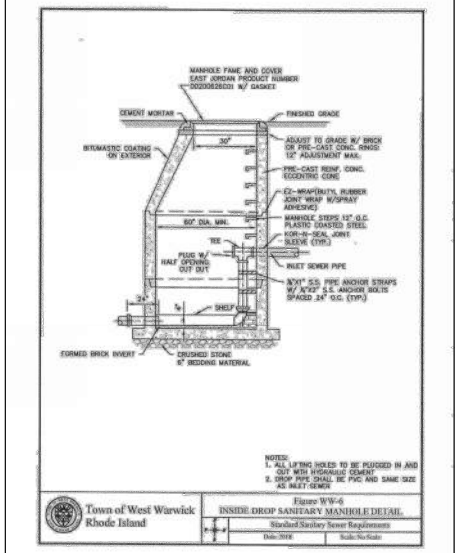

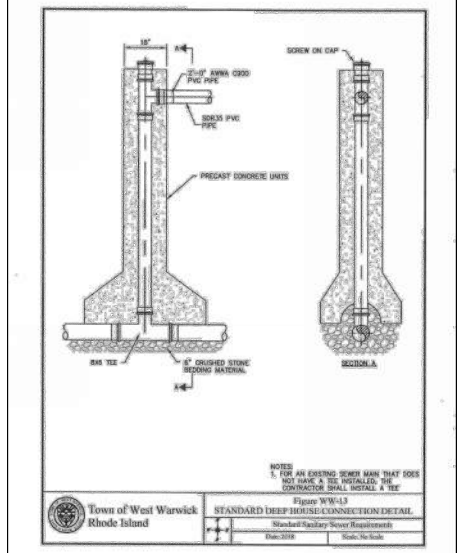

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			WTD	DGB

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TOWN OF COVENTRY

SANITARY SEWER DETAILS

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

CD-502

File Path: J:\DWG\P2022\0052\A40\CivilPlan\20220052A40_DET01.dwg, Layout: CD-502, Plotted: Mon, Feb 03, 2025 - 4:06 PM User: RyanMoraes
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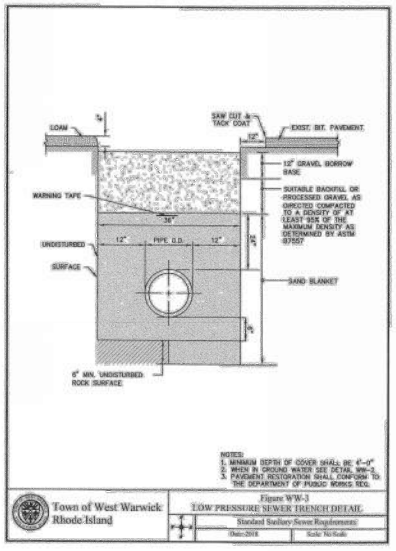
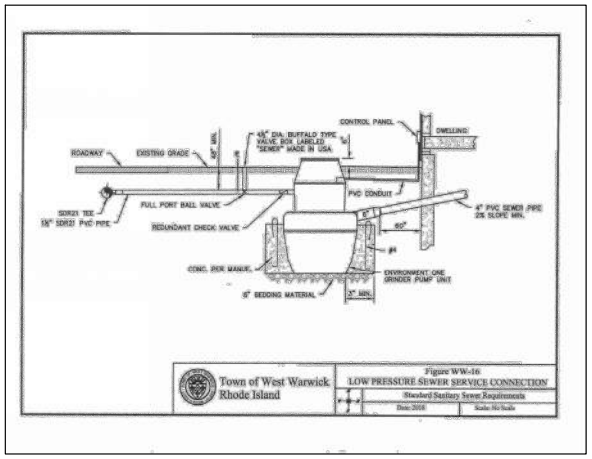
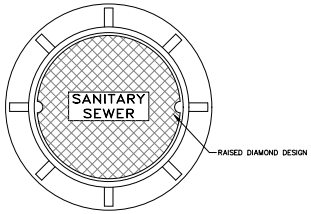
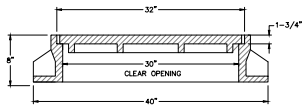






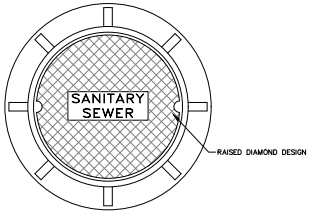
PLAN



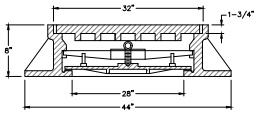
SECTION

STANDARD SANITARY MANHOLE FRAME & COVER

NOT TO SCALE



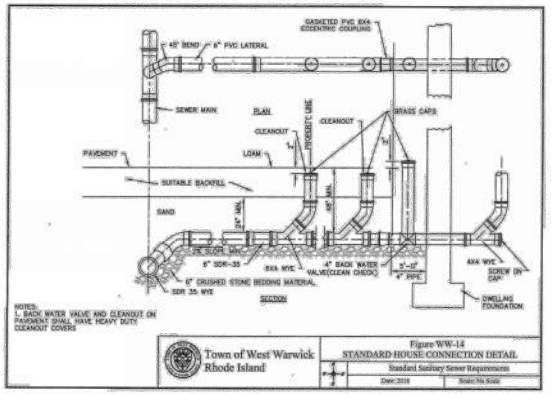
PLAN

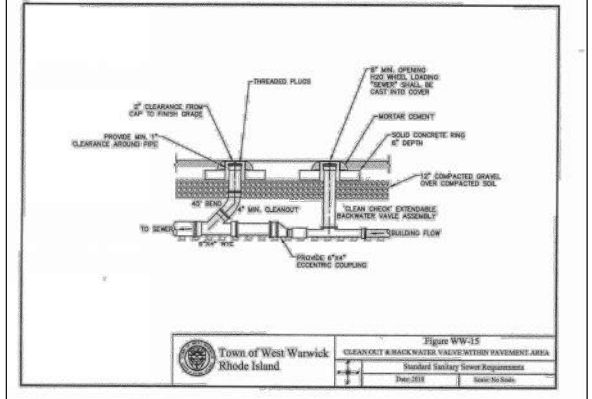


SECTION

WATERTIGHT MANHOLE FRAME AND COVER

NOT TO SCALE





MANHOLE NOTES

1. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALL OF STRUCTURE.
2. MANHOLES SHALL BE PLACED ON 8" MINIMUM CRUSHED STONE BASE.
3. INSTALL RUBBER PLUGS IN LIFTING HOLES.
4. MANHOLES SHALL RECEIVE 2 COATS OF DAMP-PROOFING MATERIAL PRIOR TO DELIVERY TO THE SITE.
5. PROVIDE WATERTIGHT STUB AND FLEXIBLE SLEEVE AS NOTED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
6. PIPE TO MANHOLE JOINTS SHALL BE SEALED WATERTIGHT BY USE OF PRE-MOLDED ELASTOMERIC SEALED JOINTS CAST INTO CONCRETE MANHOLE BASE AND SHALL CONFORM TO ASTM C 443 AND ASTM C 923.
7. BUTYL RUBBER JOINT SEAL SHALL CONFORM TO ASTM C 990.
8. MANHOLE FRAME AND COVERS SHALL BE OF THE TYPE INDICATED BELOW OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.

LOCATION	TYPE
GUTTERS, LOW LYING, WET UNPAVED AREAS	BOLTED & GASKETED (BOLTS SHALL BE 1/2" STAINLESS STEEL.)
NORMALLY DRY UNPAVED AND PAVED AREAS	STANDARD
VALVE STRUCTURES WATERTIGHT	

THE COVER SHALL HAVE THE WORDS "SANITARY SEWER" CAST INTO THE COVER IN 2" LETTERS.

9. MANHOLE STEPS SHALL BE STEEL REINFORCED POLYPROPYLENE OR ALUMINUM.
10. WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND THE MANHOLE INVERT IS 24" OR LESS, THE INVERT SHALL BE FILLETED.
11. PAYMENT DEPTHS ARE MEASURED FROM TOP OF CONE TO INVERT OF STRUCTURE.

MANHOLE NOTES

NOT TO SCALE

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			WTD	DGB

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TOWN OF COVENTRY

SANITARY SEWER DETAILS

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

CD-503

File Path: J:\DWG\P2022\0052\A40\CivilPlan\20220052A40_DET01.dwg, Layout: CD-503, Plotted: Mon, Feb 03, 2025 - 4:06 PM User: RyanMoraes Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO STB

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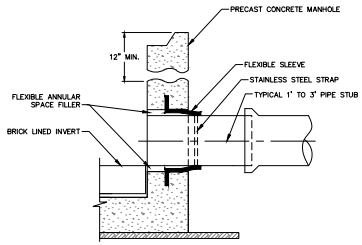
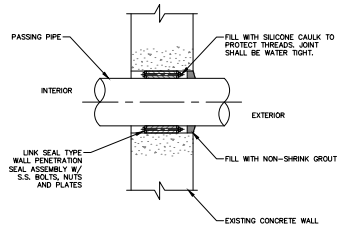


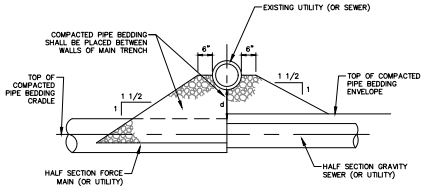
FLEXIBLE SLEEVE

NOT TO SCALE

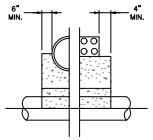


CORE DRILL & LINK SEAL DETAIL

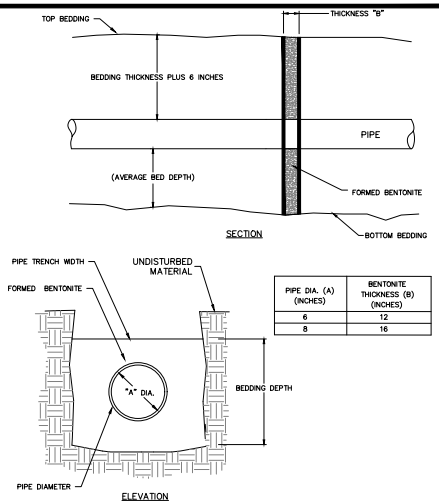
NOT TO SCALE



TYPE A (d > 12")



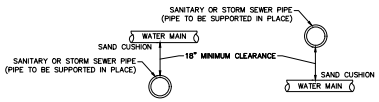
HALF SECTION



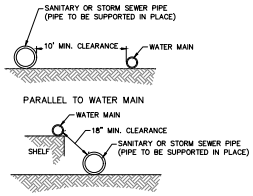
PIPE DIA. (A) (INCHES)	BENTONITE THICKNESS (B) (INCHES)
6	12
8	16

BENTONITE TRENCH DAM

NOT TO SCALE



CROSSING UNDER WATER MAIN CROSSING OVER WATER MAIN



PARALLEL TO WATER MAIN

CROSSING UNDER WATER MAIN

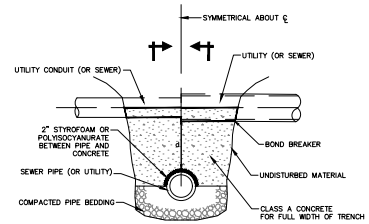
1. IF THE SANITARY SEWER CROSSES LESS THAN 18" ABOVE OR UNDER THE WATER MAIN, THE SANITARY SEWER MUST BE ENCASED IN CONCRETE TO A DISTANCE OF 10 FEET (10') ON BOTH SIDES OF THE WATER MAIN OR BE APPROVED TIGHT JOINTED PIPE AS APPROVED

PARALLEL TO WATER MAIN

2. IF THE SANITARY SEWER IS WITHIN 10 HORIZONTAL FEET (10') OF THE WATER MAIN AND EITHER ABOVE THE WATER MAIN INVERT OR LESS THAN 18 INCHES (18") UNDER THE WATER MAIN, HTE SANITARY SEWER MUST BE ENCASED IN CONCRETE OR BE APPROVED TIGHT JOINTED PIPE AS APPROVED

WATER MAIN AND SEWER PIPE CROSSINGS

NOT TO SCALE



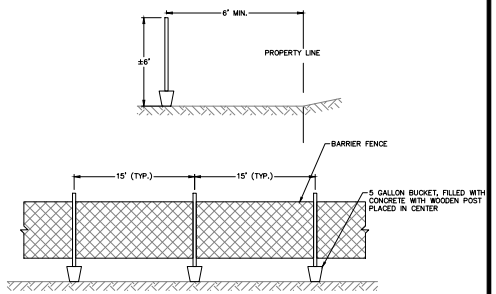
TYPE B (d < 12")

UTILITY SUPPORT NOTES

1. d=DISTANCE FROM TOP OF SEWER PIPE TO THE BOTTOM OF THE UTILITY PIPE
2. SUPPORTS TO BE LOCATED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER

TYPICAL SUPPORT FOR UTILITIES

NOT TO SCALE



BARRIER FENCE PEDESTRIAN PROTECTION

NOT TO SCALE

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			WTD	DGB

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TOWN OF COVENTRY

SANITARY SEWER DETAILS

COVENTRY HIGH SCHOOL SEWER EXTENSION

COVENTRY RHODE ISLAND

PROJ. No.: 20220052.A40
DATE: FEBRUARY 2025

CD-504

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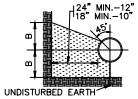
MS VIEW:
LAYER STATE:

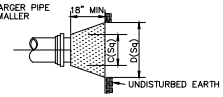
RESTRAINED PIPE LENGTHS FOR RESTRAINED FITTINGS

FITTING	RESTRAINED LENGTH
18" CAP	71'
18x18 TEE	66'
18x12 TEE	46'
18x10 TEE	35'
16x8 TEE	25'
16x6 TEE	13'
16" 90°	30'
16" 45°	13'
16" 22-1/2°	6'
16" 11-1/4°	6'
16x12 REDUCER	30' ON 16"
16x10 REDCUER	42' ON 16"
16x8 REDUCER	52' ON 16"
16x6 REDUCER	60' ON 16"
12" CAP	55'
12"x12" TEE	50'
12x8 TEE	29'
12x6 TEE	17'
12" 90°	24'
12" 45°	10'
12" 22-1/2°	5'
12" 11¼°	3'
12x8 REDUCER	29' ON 12"
12x6 REDUCER	40' ON 12"
8" CAP	39'
8x8 TEE	33'
8x6 TEE	22'
8" 90°	17'
8" 45°	7'
8" 22¼°	4'
8" 11¼°	4'
8x6 REDUCER	16' ON 8"
8x4 REDUCER	28' ON 8"
6" CAP	29'
6" TEE	24'
6" 90°	13'
6" 45°	6'
6" 22¼°	3'
6" 11¼°	3'
16" B.F.V.	71'
12" G.V.	55'
10" G.V.	46'
8" G.V.	39'
6" G.V.	29'
4" G.V.	21'

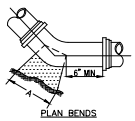
RESTRAINED PIPE LENGTHS
NOT TO SCALE



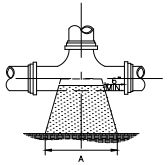
BENDS & TEES SECTION



PLAN & ELEVATION PLUGS



PLAN BENDS

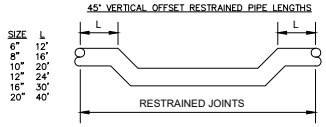


PLAN TEES

NOTES:
1.) ALL CONCRETE SHALL BE 4000 P.S.I @ 28 DAYS.
2.) CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
3.) FORMS TO BE USED AS NECESSARY.
4.) ALL BOLTS AND NUTS TO BE PROTECTED FROM CONCRETE AND EASILY ACCESSIBLE WHEN THRUST BLOCK INSTALLED.
5.) REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF R.I. SHALL VERIFY ALL CALCULATIONS DURING DESIGN TO MEET CONDITIONS OF PROJECT AND KCWA REQUIREMENTS.

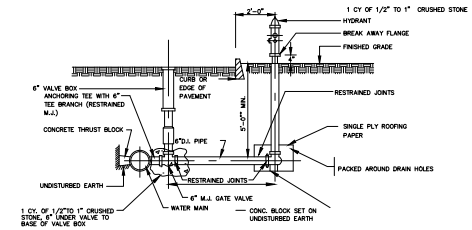
SIZE	TEES		PLUGS		90° BEND		45° BEND		22½° BEND		11¼° BEND	
	A	B	C	D	A	B	A	B	A	B	A	B
6"	20"	10"	10"	21"	24"	12"	18"	9"	13"	7"	9"	5"
8"	26"	13"	12"	26"	32"	16"	24"	12"	17"	9"	12"	6"
10"	34"	17"	14"	34"	40"	20"	30"	15"	22"	11"	15"	8"
12"	41"	20"	16"	41"	48"	24"	36"	18"	25"	13"	18"	9"
16"	54"	27"	20"	54"	64"	32"	47"	23"	34"	17"	24"	12"

THRUST BLOCK
NOT TO SCALE



NOTES:
1. ALL JOINTS, INCLUDING PIPE JOINTS, VALVE JOINTS AND FITTING JOINTS, SHALL BE RESTRAINED WITHIN THE LIMITS OF RESTRAINED LENGTHS LISTED ON THIS TABLE. MECHANICAL JOINT PIPE AND MEGALUG RESTRAINTS WILL BE IN ACCORDANCE WITH THE ABOVE TABLE
2. THE TABLE SHOWS LENGTHS OF PIPES WHICH MUST BE RESTRAINED ON BOTH SIDES OF THE FITTING.
3. ALL DEAD END PIPE SHALL BE PROPERLY RESTRAINED WITH MEGA-LUG AND MECHANICAL JOINT PIPE PRIOR TO PRESSURE TESTING.
4. WHERE ONE OR MORE FITTINGS FALL WITHIN THE RESTRAINED LENGTH OF ANOTHER THE RESTRAINED LENGHTH SHALL BE ADDED.
5. ALL VALVES, SOLID SLEEVES AND PIPING WITHIN TIE-INS TO BE RESTRAINED.
6. RUN JOINTS ON TEES SHALL BE RESTRAINED
7. THRUST BLOCK SHALL BE INSTALLED WHEN THERE IS NOT ENOUGH PIPE LENGTH TO BE RESTRAINED.

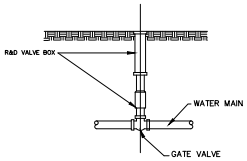
RESTRAINED PIPE LENGTHS
NOT TO SCALE



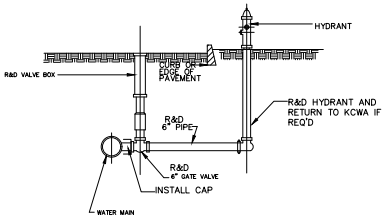
NOTE:
1.) KCWA COLOR SCHEME FOR HYDRANT.
2.) INSTALLATION SHALL NOT OBSTRUCT SIDEWALK TO PEDESTRIAN OR PHYSICALLY IMPAIRED.
3.) REMOVAL OF EXISTING HYDRANT MAY REQUIRE ADDITIONAL RESTRAINT DESIGNED BY A PROFESSIONAL ENGINEER.

NOTE:
MECHANICAL JOINT PIPE W/ RESTRAINED JOINTS FOR BRANCHES OVER ONE LENGTH OF PIPE

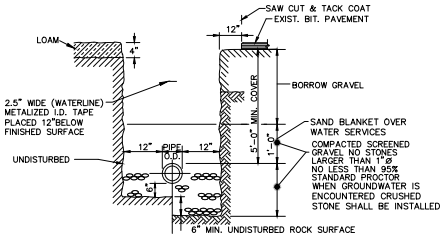
HYDRANT DETAIL
NOT TO SCALE



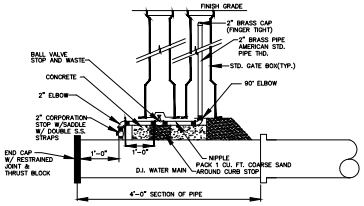
R&D GATE BOXES
NOT TO SCALE

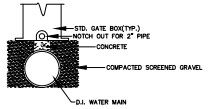


R&D HYDRANT ASSEMBLY
NOT TO SCALE

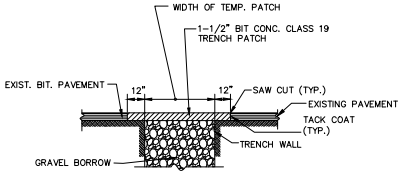


WATER TRENCH DETAIL(DRY AREA)
NOT TO SCALE

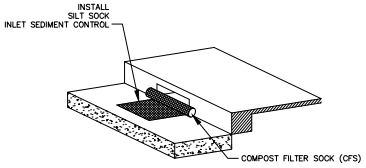




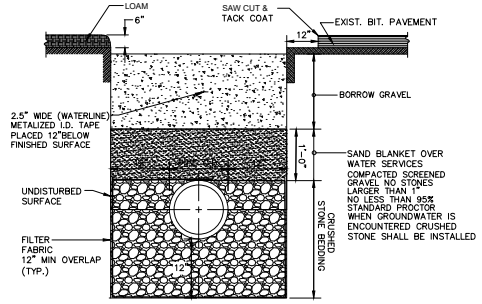
2" PERMANENT BLOWOFF ASSEMBLY
NOT TO SCALE



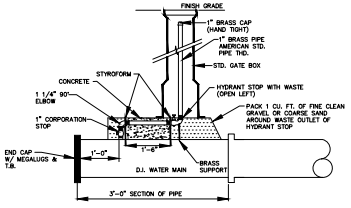
TEMPORARY TRENCH PATCH
NOT TO SCALE



CURB INLET/CATCH BASIN SEDIMENTION CONTROL(ISC)
NOT TO SCALE



WATER TRENCH DETAIL(WET AREA)
NOT TO SCALE



1" PERMANENT BLOWOFF ASSEMBLY
NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
			RMH	JGA

JAMES J. GEREMIA No. 4521 REGISTERED PROFESSIONAL ENGINEER

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SCALE:
HORZ.:
VERT.:
DATUM:
HORZ.:
VERT.:

KENT COUNTY WATER AUTHORITY
KENT COUNTY AUTHORITY
WATER MAIN DETAILS
COVENTRY RHODE ISLAND

PROJ. No.: 25-001
DATE: JANUARY 2025
CD-505

File: Z:\Projects\KCWA\KCWA 2025\KCWA 2025.dwg Layout: CD-505 DET1 Plotted: 2025-01-27 11:26 AM Saved: 2025-01-27 11:14 AM User: Oliver
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