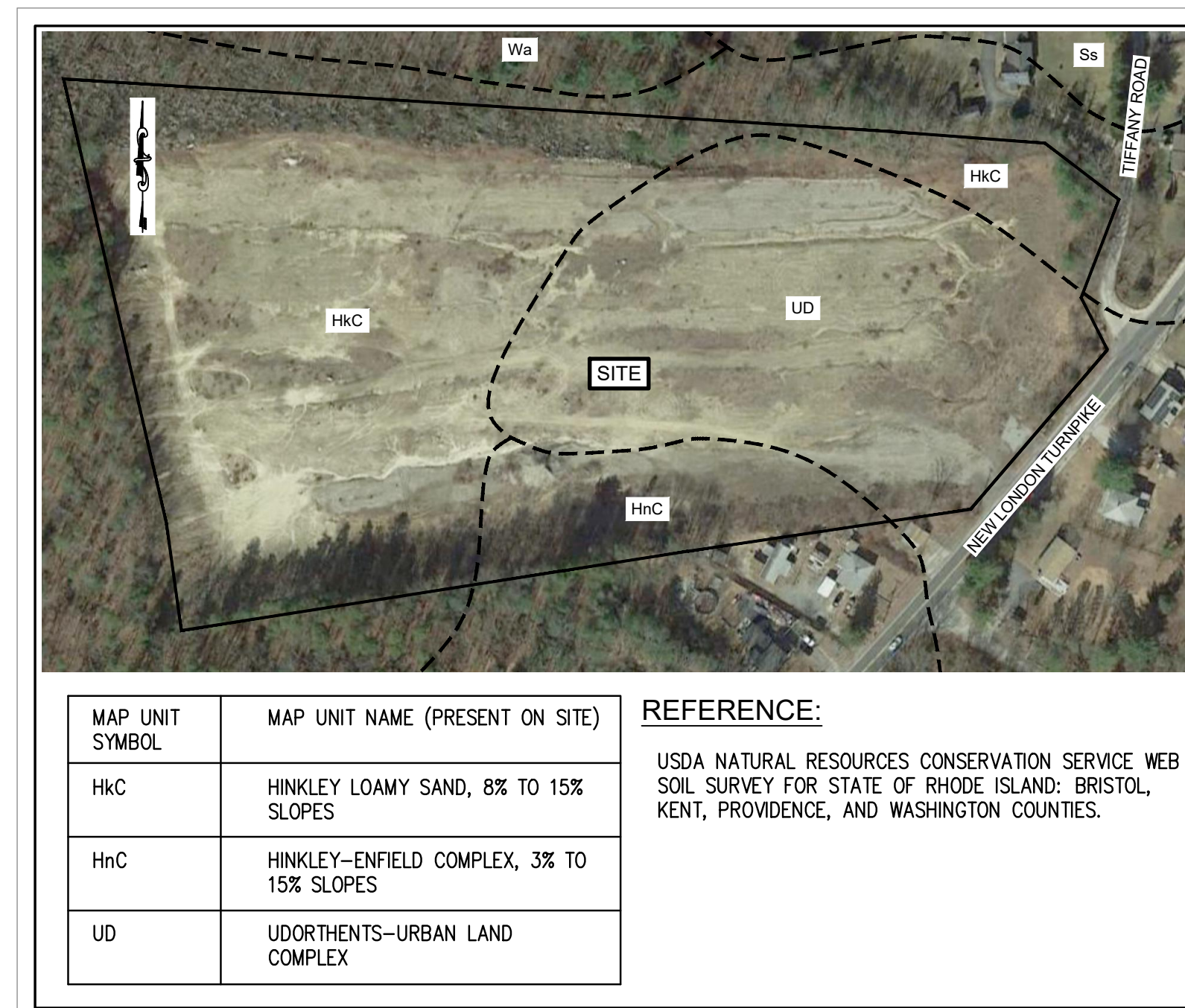


PRELIMINARY SUBMISSION

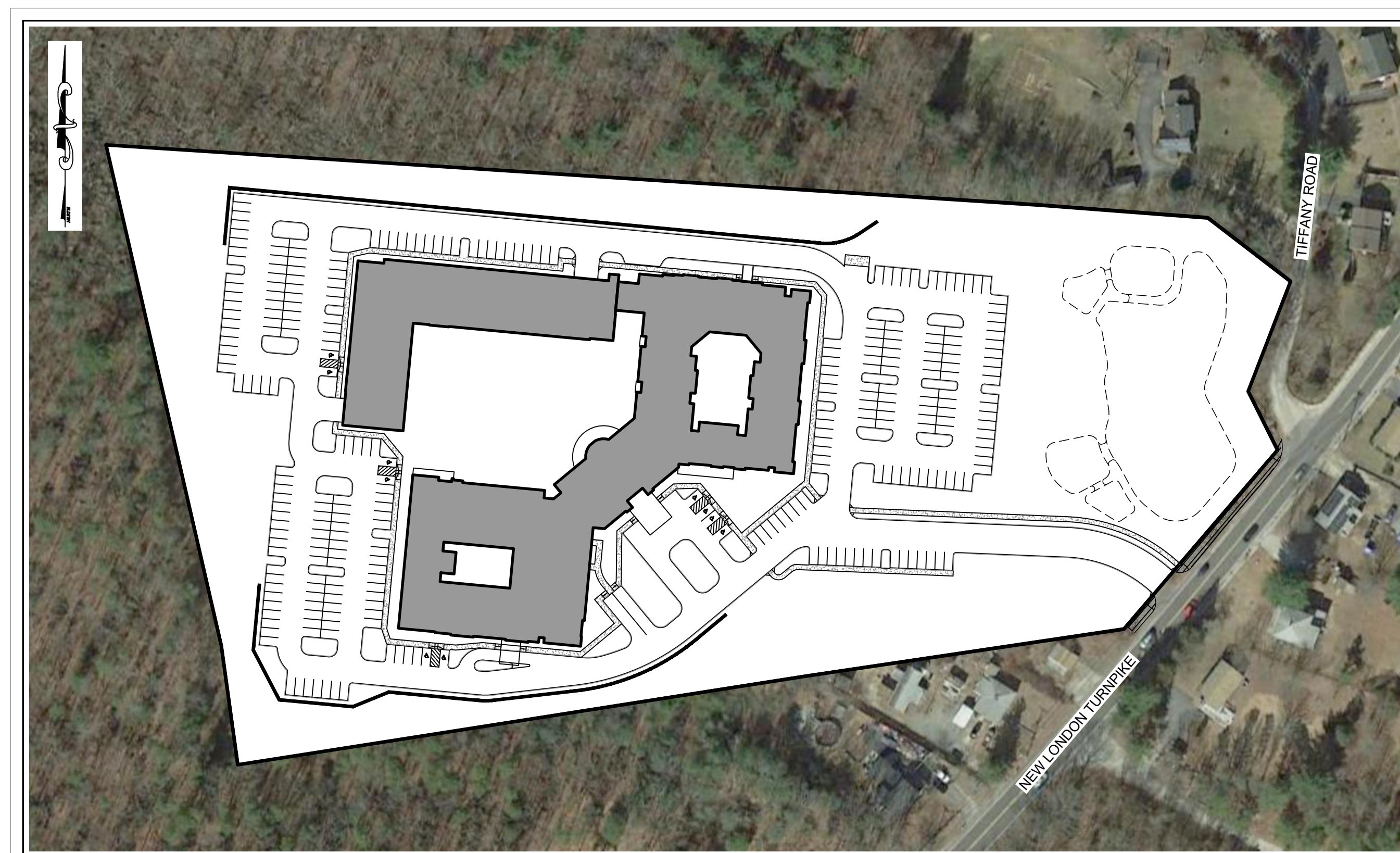
FOR:

WILLOW LAKES INDEPENDENT LIVING

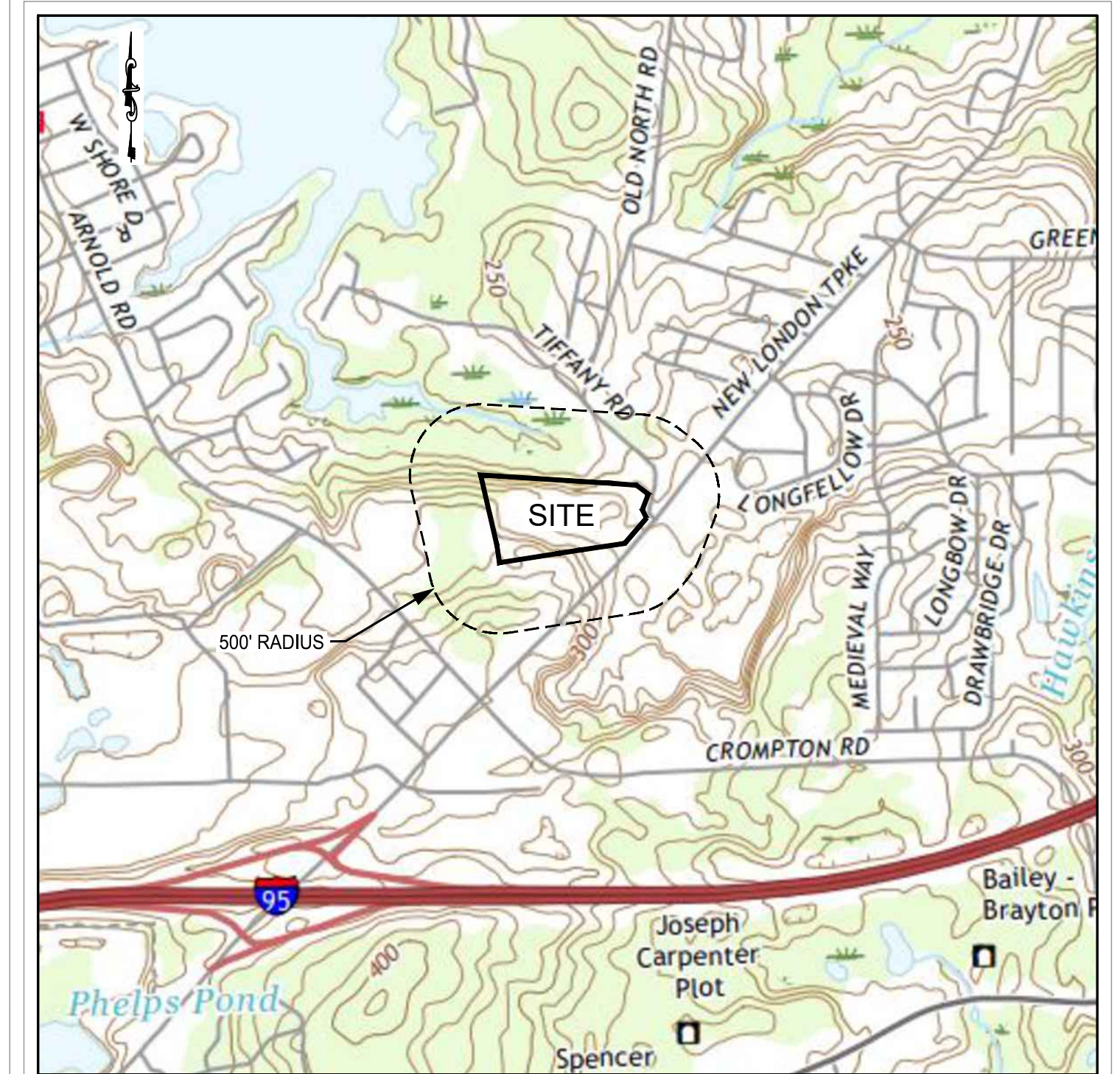
A.P. 16 LOT 3
NEW LONDON TURNPIKE
COVENTRY, RHODE ISLAND



SOILS MAP
NOT TO SCALE



AERIAL IMAGE
SCALE: 1"=100'



LOCUS
1" = 1,000'

TABLE OF CONTENTS:

SHEET	DESCRIPTION	REVISED
1	COVER SHEET	5/28/24
2	EXISTING CONDITIONS PLAN	5/28/24
3	SITE LAYOUT PLAN	5/28/24
4	GRADING AND DRAINAGE PLAN	5/28/24
5	UTILITY PLAN	5/28/24
6	SOIL EROSION AND SEDIMENT CONTROL PLAN	5/28/24
7	SOIL EROSION AND SEDIMENT CONTROL PLAN - 2	5/28/24
8	NOTES AND DETAILS	5/28/24
9	DETAILS - 1	5/28/24
10	DETAILS - 2	5/28/24
11	DETAILS - 3	5/28/24
12	DETAILS - 4	5/28/24

PREPARED BY:



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Warwick, RI 02886 | Middletown, RI 02842
www.MillstoneEng.com
p. (401) 921-3344 f. (401) 921-3303

FEBRUARY 2021

KCWA STATEMENT:
THE ATTACHED DRAWINGS NUMBERED 1 - 12 HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND HAVE BEEN THOROUGHLY CHECKED.

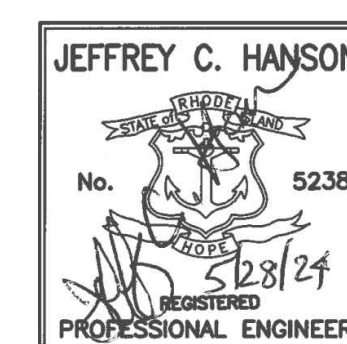
JEFFREY C. HANSON, P.E. (RI P.E. # 5238)

ENGINEER / SURVEYOR:
MILLSTONE LLC
250 CENTERVILLE ROAD, BLDG. E-12
WARWICK, RI 02866
(401) 921-3344

ATTORNEY:
MICHAEL D. RESNICK
128 DORRANCE STREET, SUITE 300
PROVIDENCE, RI 02903
(401) 490-7334

OWNER/APPLICANT:
LRT NEW LONDON AVE DEVELOPMENT, LLC
400 LINCOLN AVENUE
WARWICK, RI 02888
(401) 935-9263
PRINCIPAL: CHARLES ANDERSON

WILLOW LAKES
INDEPENDENT LIVING
A.P. 16, LOT 3
NEW LONDON TURNPIKE
COVENTRY, RI



Drawn By: BJC

Checked By: JCH

Sheet

1

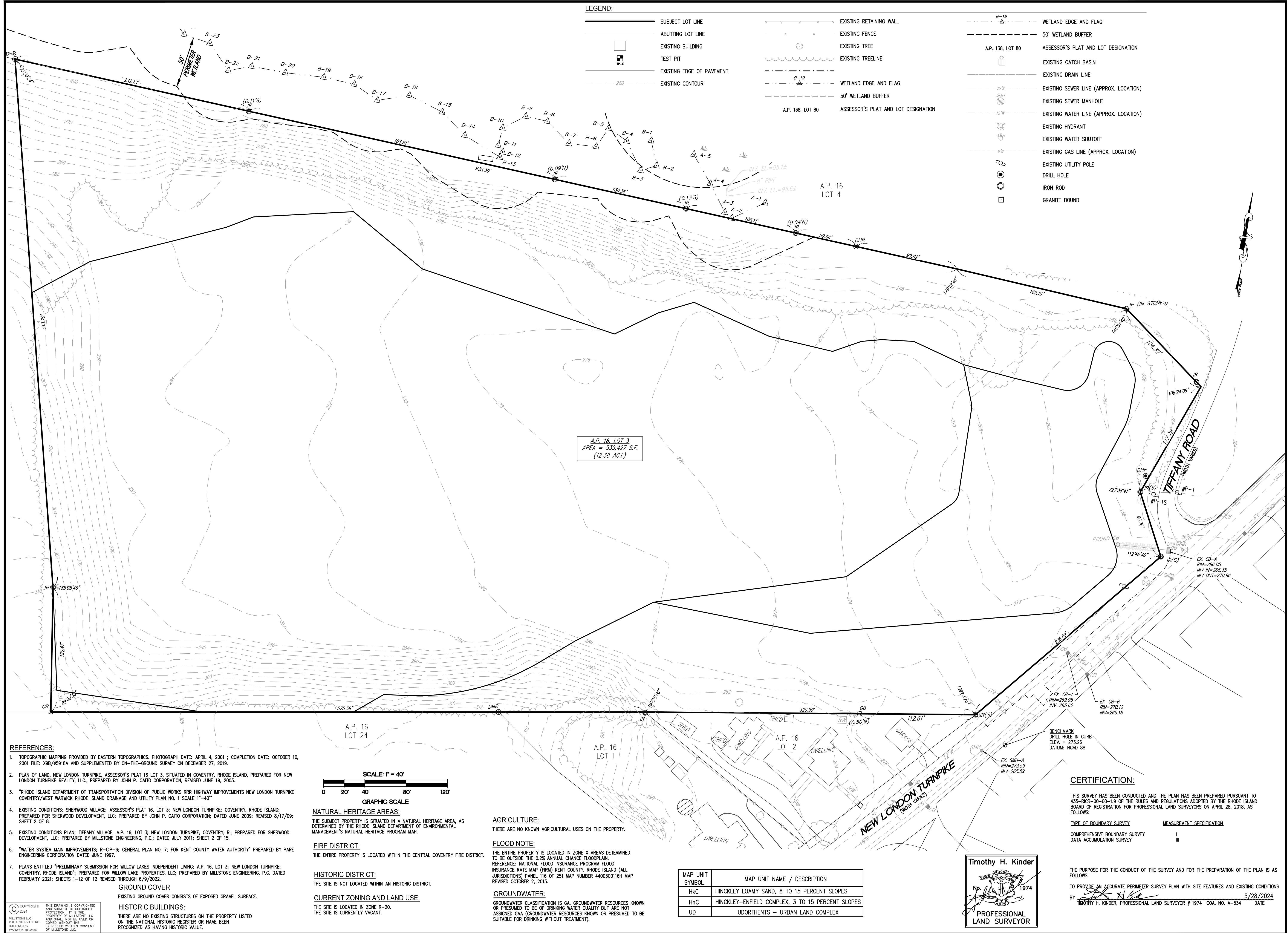
of 12

FILE NO.: 17.276.403

- REFERENCES:
- AERIAL PHOTOGRAPH TAKEN FROM GOOGLE EARTH.
 - LOCUS MAP USGS, CROMPTON QUADRANGLE.
 - PLANS ENTITLED "PRELIMINARY SUBMISSION FOR WILLOW LAKES INDEPENDENT LIVING: A.P. 16, LOT 3 NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND", PREPARED FOR WILLOW LAKE PROPERTIES, LLC, PREPARED BY MILLSTONE ENGINEERING, P.C. DATED FEBRUARY 2021; SHEETS 1-12 OF 12 REVISED THROUGH 6/9/2022.

NO.	DATE	REVISION
1	12/27/21	TOWN COMMENTS
2	01/07/22	RIDEM COMMENTS
3	01/25/22	KCWA COMMENTS
4	03/24/22	KCWA COMMENTS
5	06/09/22	KCWA COMMENTS
6	05/28/24	PRELIMINARY PLAN REINSTATEMENT

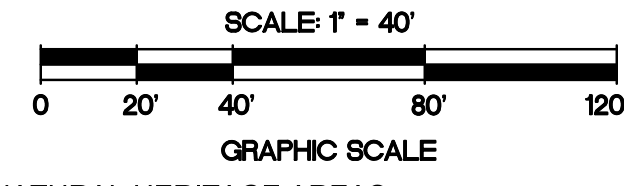
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WARWICK, RI 02886



LEGEND:

- | | | | | | | |
|---|---------------------------|---|-------------------------|------------------|--|--|
| — | SUBJECT LOT LINE | — | EXISTING RETAINING WALL | — B-19 | WETLAND EDGE AND FLAG | |
| — | ABUTTING LOT LINE | — | EXISTING FENCE | --- | 50' WETLAND BUFFER | |
| □ | EXISTING BUILDING | ○ | EXISTING TREE | A.P. 138, LOT 80 | ASSESSOR'S PLAT AND LOT DESIGNATION | |
| ■ | TEST PIT | — | EXISTING TREELINE | □ | EXISTING CATCH BASIN | |
| — | EXISTING EDGE OF PAVEMENT | — | WETLAND EDGE AND FLAG | — | EXISTING DRAIN LINE | |
| — | EXISTING CONTOUR | — | 50' WETLAND BUFFER | — | EXISTING SEWER LINE (APPROX. LOCATION) | |
| | | | | | ○ | EXISTING SEWER MANHOLE |
| | | | | | — | EXISTING WATER LINE (APPROX. LOCATION) |
| | | | | | ○ | EXISTING HYDRANT |
| | | | | | ○ | EXISTING WATER SHUTOFF |
| | | | | | ○ | EXISTING GAS LINE (APPROX. LOCATION) |
| | | | | | ○ | EXISTING UTILITY POLE |
| | | | | | ○ | DRILL HOLE |
| | | | | | ○ | IRON ROD |
| | | | | | □ | GRANITE BOUND |

- REFERENCES:**
- TOPOGRAPHIC MAPPING PROVIDED BY EASTERN TOPOGRAPHICS. PHOTOGRAPH DATE: APRIL 4, 2001; COMPLETION DATE: OCTOBER 10, 2001. FILE: X98/65918A AND SUPPLEMENTED BY ON-THE-GROUND SURVEY ON DECEMBER 27, 2019.
 - PLAN OF LAND, NEW LONDON TURNPIKE, ASSESSOR'S PLAT 16 LOT 3, SITUATED IN COVENTRY, RHODE ISLAND, PREPARED FOR NEW LONDON TURNPIKE REALTY, LLC., PREPARED BY JOHN P. CATO CORPORATION, REVISED JUNE 19, 2003.
 - "RHODE ISLAND DEPARTMENT OF TRANSPORTATION DIVISION OF PUBLIC WORKS RRR HIGHWAY IMPROVEMENTS NEW LONDON TURNPIKE COVENTRY/WEST WARWICK RHODE ISLAND DRAINAGE AND UTILITY PLAN NO. 1 SCALE 1"=40"
 - EXISTING CONDITIONS: SHERWOOD VILLAGE; ASSESSOR'S PLAT 16, LOT 3; NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND; PREPARED FOR SHERWOOD DEVELOPMENT, LLC; PREPARED BY JOHN P. CATO CORPORATION, DATED JUNE 2009; REVISED 8/17/09; SHEET 2 OF 8.
 - EXISTING CONDITIONS PLAN: TIFFANY VILLAGE; A.P. 16, LOT 3; NEW LONDON TURNPIKE, COVENTRY, RI; PREPARED FOR SHERWOOD DEVELOPMENT, LLC; PREPARED BY MILLSTONE ENGINEERING, P.C.; DATED JULY 2011; SHEET 2 OF 15.
 - "WATER SYSTEM MAIN IMPROVEMENTS: R-CIP-6; GENERAL PLAN NO. 7; FOR KENT COUNTY WATER AUTHORITY" PREPARED BY PARE ENGINEERING CORPORATION DATED JUNE 1997.
 - PLANS ENTITLED "PRELIMINARY SUBMISSION FOR WILLOW LAKES INDEPENDENT LIVING; A.P. 16, LOT 3; NEW LONDON TURNPIKE; COVENTRY, RHODE ISLAND"; PREPARED FOR WILLOW LAKE PROPERTIES, LLC; PREPARED BY MILLSTONE ENGINEERING, P.C. DATED FEBRUARY 2021; SHEETS 1-12 OF 12 REVISED THROUGH 6/9/2022.



NATURAL HERITAGE AREAS:
THE SUBJECT PROPERTY IS SITUATED IN A NATURAL HERITAGE AREA, AS DETERMINED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT'S NATURAL HERITAGE PROGRAM MAP.

FIRE DISTRICT:
THE ENTIRE PROPERTY IS LOCATED WITHIN THE CENTRAL COVENTRY FIRE DISTRICT.

HISTORIC DISTRICT:
THE SITE IS NOT LOCATED WITHIN AN HISTORIC DISTRICT.

CURRENT ZONING AND LAND USE:
THE SITE IS LOCATED IN ZONE R-20.
THE SITE IS CURRENTLY VACANT.

AGRICULTURE:
THERE ARE NO KNOWN AGRICULTURAL USES ON THE PROPERTY.

FLOOD NOTE:
THE ENTIRE PROPERTY IS LOCATED IN ZONE X AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
REFERENCE: NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP (FIRM) KENT COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 116 OF 251 MAP NUMBER 440030016H MAP REVISED OCTOBER 2, 2015.

GROUNDWATER:
GROUNDWATER CLASSIFICATION IS GA. GROUNDWATER RESOURCES KNOWN OR PRESUMED TO BE OF DRINKING WATER QUALITY BUT ARE NOT ASSIGNED GAA (GROUNDWATER RESOURCES KNOWN OR PRESUMED TO BE SUITABLE FOR DRINKING WITHOUT TREATMENT).

MAP UNIT SYMBOL	MAP UNIT NAME / DESCRIPTION
HnC	HINCKLEY LOAMY SAND, 8 TO 15 PERCENT SLOPES
HnC	HINCKLEY-ENFIELD COMPLEX, 3 TO 15 PERCENT SLOPES
UD	UDORTHERNTS - URBAN LAND COMPLEX

Timothy H. Kinder
No. 1974
PROFESSIONAL LAND SURVEYOR

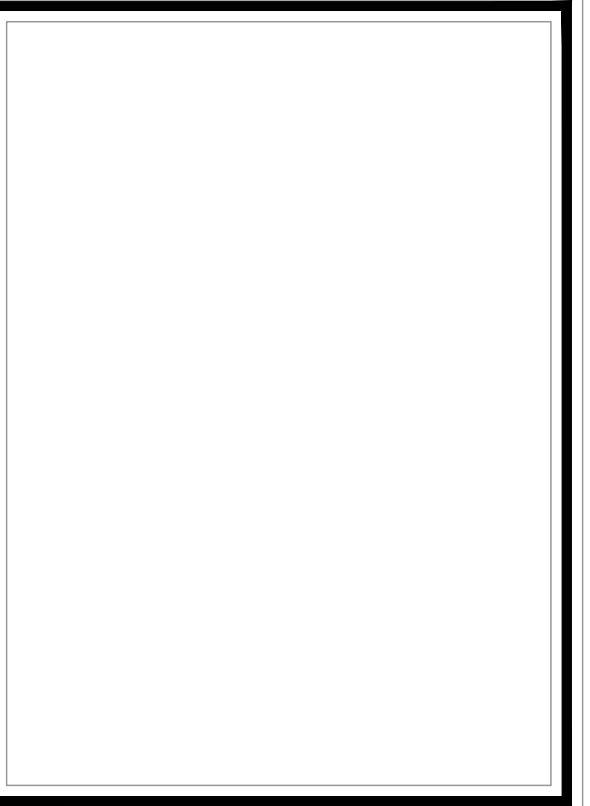
CERTIFICATION:
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RIGR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2016, AS FOLLOWS:
TYPE OF BOUNDARY SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: DATA ACCUMULATION SURVEY
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
TO PROVIDE AN ACCURATE PERIMETER SURVEY PLAN WITH SITE FEATURES AND EXISTING CONDITIONS
BY: *Timothy H. Kinder* 5/28/2024
TIMOTHY H. KINDER, PROFESSIONAL LAND SURVEYOR # 1974 COA. NO. A-534 DATE

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GROUND COVER
EXISTING GROUND COVER CONSISTS OF EXPOSED GRAVEL SURFACE.

HISTORIC BUILDINGS:
THERE ARE NO EXISTING STRUCTURES ON THE PROPERTY LISTED ON THE NATIONAL HISTORIC REGISTER OR HAVE BEEN RECOGNIZED AS HAVING HISTORIC VALUE.

NO.	DATE	REVISION
6	05/28/24	PRELIM. REINSTATEMENT



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EXISTING CONDITIONS PLAN

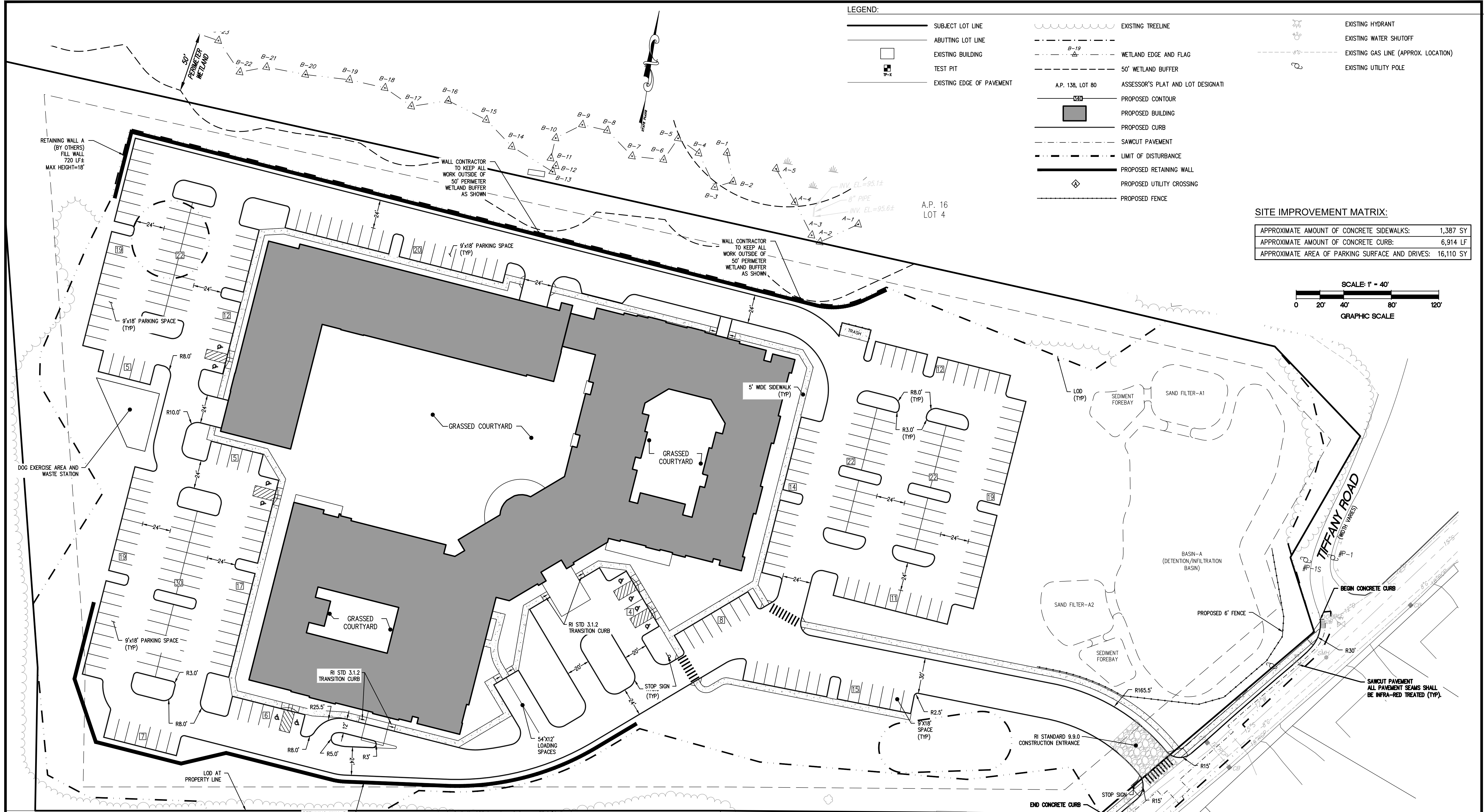
WILLOW LAKES

A.P. 16, LOT 3
NEW LONDON TURNPIKE
COVENTRY, RI

PREPARED FOR:
LRT NEW LONDON AVE DEVELOPMENT, LLC

1" = 40"
FEBRUARY 2021

Drawn By: J.S.C.
Checked By: J.C.H.
Sheet
2
of 12
FILE NO.: 17.276.403

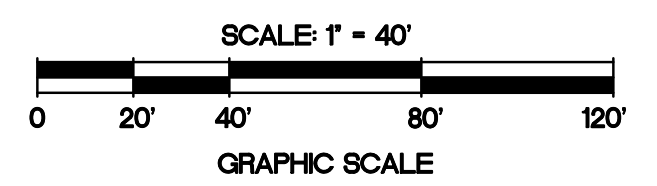


LEGEND:

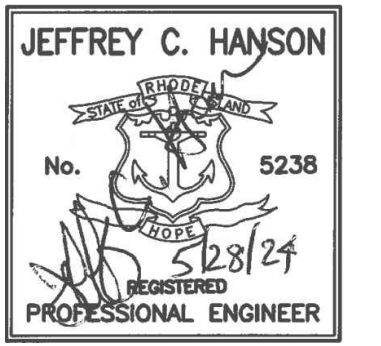
—	SUBJECT LOT LINE	—	EXISTING TREELINE	—	EXISTING HYDRANT
—	ABUTTING LOT LINE	—	EXISTING WATER SHUTOFF	—	EXISTING GAS LINE (APPROX. LOCATION)
—	EXISTING BUILDING	—	WETLAND EDGE AND FLAG	—	EXISTING UTILITY POLE
—	TEST PIT	—	50' WETLAND BUFFER	—	
—	EXISTING EDGE OF PAVEMENT	—	A.P. 138, LOT 80	—	
		—	ASSESSOR'S PLAT AND LOT DESIGNATI	—	
		—	PROPOSED CONTOUR	—	
		—	PROPOSED BUILDING	—	
		—	PROPOSED CURB	—	
		—	SAWOUT PAVEMENT	—	
		—	LIMIT OF DISTURBANCE	—	
		—	PROPOSED RETAINING WALL	—	
		—	PROPOSED UTILITY CROSSING	—	
		—	PROPOSED FENCE	—	

SITE IMPROVEMENT MATRIX:

APPROXIMATE AMOUNT OF CONCRETE SIDEWALKS:	1,387 SY
APPROXIMATE AMOUNT OF CONCRETE CURB:	6,914 LF
APPROXIMATE AREA OF PARKING SURFACE AND DRIVES:	16,110 SY



NO.	DATE	REVISION
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SITE LAYOUT PLAN
WILLOW LAKES
 A.P. 16, LOT 3
 NEW LONDON TURNPIKE
 COVENTRY, RI

PREPARED FOR:
**LRT NEW LONDON AVE
 DEVELOPMENT, LLC**
 1" = 40'
 FEBRUARY 2021

Drawn By: J.S.C.
 Checked By: J.C.H.
 Sheet
3
 of 12
 FILE NO.: 17.276.403

PARKING REQUIREMENTS:

TABLE 12-1	TYPE OF USE	CODE DESCRIPTION	MINIMUM PARKING SPACES REQUIRED	REQUIRED	PROPOSED
	INDEPENDENT LIVING	MULTI-FAMILY	(124 STANDARD UNITS) X (2 SPACES / UNIT) = 248	248 SPACES	
	ASSISTED LIVING	HOME FOR THE AGED	(48 BEDS) X (1 SPACE / 4 BEDS) = 12	12 SPACES	
			(14 EMPLOYEES) * (1 SPACE / 2 EMPLOYEES) = 7	7 SPACES	
	MEMORY CARE	NURSING HOME	(30 BEDS) X (1 SPACE / 4 BEDS) = 7.5	8 SPACES	
			(8 EMPLOYEES) * (1 SPACE / 2 EMPLOYEES) = 4	4 SPACES	
	TOTAL			279 SPACES	289 SPACES
	ACCESSIBLE SPACES	ACCESSIBLE SPACES	201 - 300 SPACES = 7 SPACES ⁽¹⁾	7 SPACES	10 SPACES

NOTES:
 1. REFERENCE CODE REQUIREMENTS FOR HOUSING ACCESSIBILITY BY INTERNATIONAL CODE CONVENTION.

ZONING DATA TABLE:

MULTIFAMILY REGULATIONS	REQUIRED	A.P. 16, LOT 3
SECTION 1455: - MAXIMUM STRUCTURE HEIGHT	3 STORIES OR 35 FT.	35'
SECTION 1460 - STANDARDS FOR MULTI-FAMILY BUILDINGS:		
MINIMUM MULTI-FAMILY YARD DIMENSIONS:		
FRONT YARD	40 ft.	>40 ft.
SIDE YARD	40 ft.	>40 ft.
REAR YARD	40 ft.	>40 ft.
MINIMUM DISTANCE BETWEEN MULTI-FAMILY BUILDINGS:		
PARALLEL	50 ft.	N/A
ABUTTING ENDS	40 ft.	N/A
SECTION 1480: - OPEN SPACE	40%	59% ±
LOT COVERAGE (IMPERVIOUS)	NONE ⁽¹⁾	41% ±
LAND SUITABLE FOR DEVELOPMENT	NONE ⁽¹⁾	9.7 AC ⁽²⁾

NOTES:
 1. NO STANDARD IN MULTIFAMILY SECTION
 2. UNSUITABLE LAND CALCULATION:

SITE AREA:	539,427 SF
- WETLANDS (INCLUDING PERIMETER):	12,255 SF
FLOOD ZONE A:	NONE
STEEP SLOPES (EXCLUDING STOCKPILES):	94,703 SF
STREET ALLOWANCE:	10,080 SF
EXISTING EASEMENTS:	NONE
CEMETERIES:	422,389 SF (9.7 AC)

REQUIRED APPROVALS:

- THIS PROJECT WAS PREVIOUSLY APPROVED AS "TIFFANY VILLAGE" (SEE REFERENCED PLANS). THE PROJECT CURRENTLY HAS, OR WILL REQUIRE THE FOLLOWING PERMITS:
1. MASTER PLAN
 2. SPECIAL USE PERMIT FOR MULTIFAMILY USE
 3. COMPREHENSIVE PERMIT
 4. KENT COUNTY WATER AUTHORITY
 5. COVENTRY SEWER
 6. CENTRAL COVENTRY FIRE DISTRICT
 7. RHODE ISLAND POLLUTANT DISCHARGES ELIMINATION SYSTEM (RIDDES) PERMIT
 8. COVENTRY SEDIMENT CONTROL ORDINANCE PERMIT
 9. PRELIMINARY PLAN
 10. FINAL PLAN

REFERENCES:

1. PLANS ENTITLED "CONSTRUCTION DRAWINGS FOR TIFFANY VILLAGE; A.P. 16, LOT 3; NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND"; PREPARED FOR SHERWOOD DEVELOPMENT, LLC; PREPARED BY MILLSTONE ENGINEERING, P.C. DATED JULY 2011; SHEETS 1-16 OF 16 REVISED THROUGH 2/20/2012.
2. PLANS ENTITLED "PRELIMINARY SUBMISSION FOR WILLOW LAKES INDEPENDENT LIVING; A.P. 16, LOT 3; NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND"; PREPARED FOR WILLOW LAKE PROPERTIES, LLC; PREPARED BY MILLSTONE ENGINEERING, P.C. DATED FEBRUARY 2021; SHEETS 1-12 OF 12 REVISED THROUGH 6/9/2022.

NOTES:

1. SITE CONTRACTOR IS RESPONSIBLE FOR BRINGING UTILITIES WITHIN 5 FEET OF THE BUILDING.
2. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR BUILDING UTILITY CONNECTION POINTS.
3. RETAINING WALLS SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER AND APPROVED BY THE TOWN ENGINEER.

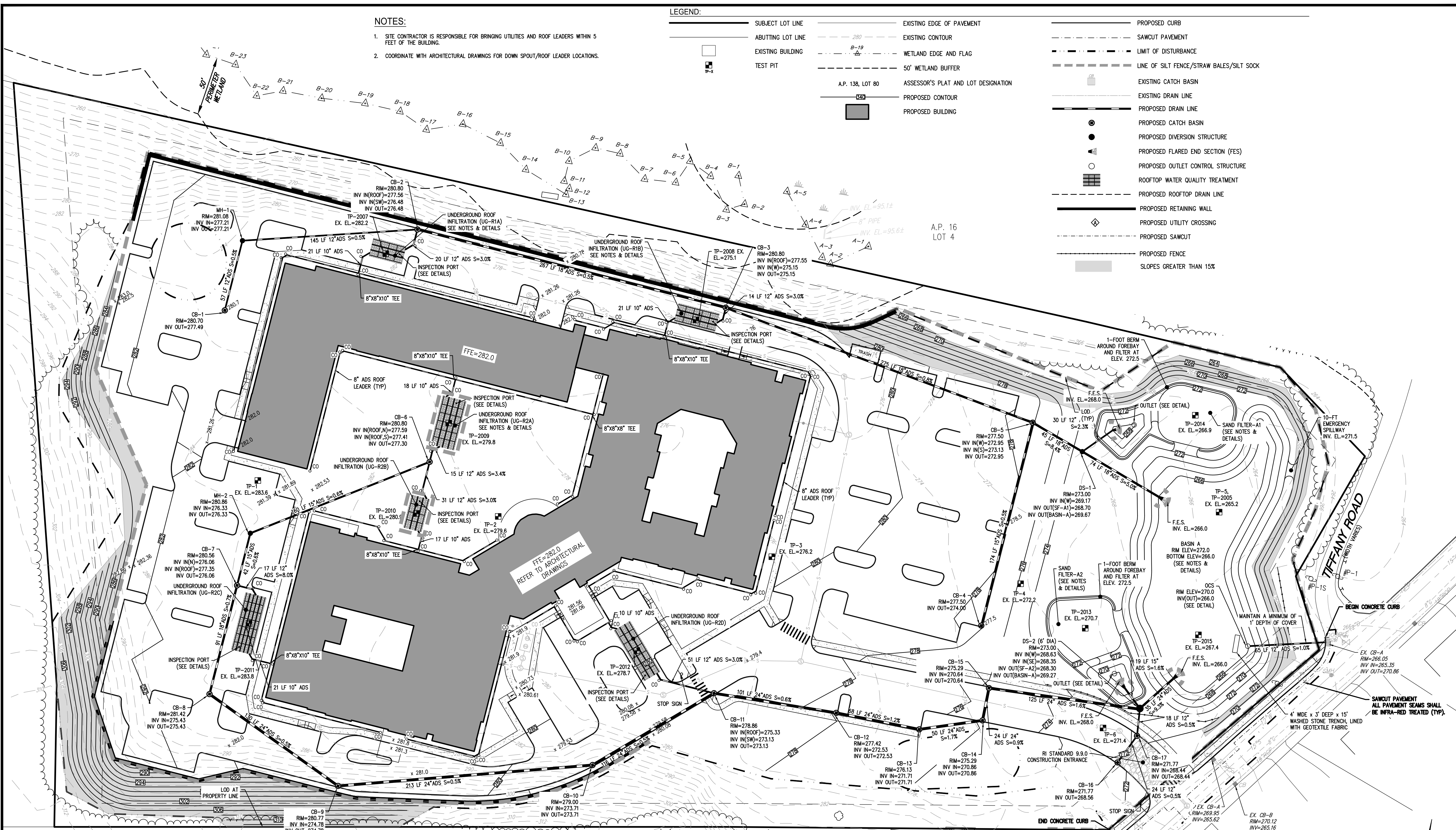
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NOTES:

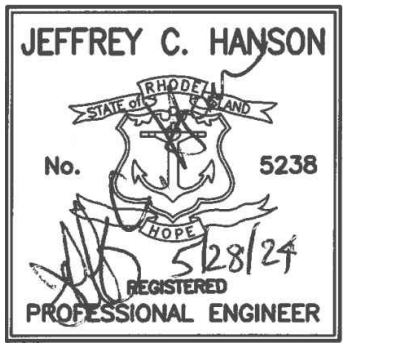
- SITE CONTRACTOR IS RESPONSIBLE FOR BRINGING UTILITIES AND ROOF LEADERS WITHIN 5 FEET OF THE BUILDING.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOWN SPOUT/ROOF LEADER LOCATIONS.

LEGEND:

- | | | | | | |
|--|-------------------|--|-------------------------------------|--|--|
| | SUBJECT LOT LINE | | EXISTING EDGE OF PAVEMENT | | PROPOSED CURB |
| | ABUTTING LOT LINE | | EXISTING CONTOUR | | SAWCUT PAVEMENT |
| | EXISTING BUILDING | | WETLAND EDGE AND FLAG | | LIMIT OF DISTURBANCE |
| | TEST PIT | | 50' WETLAND BUFFER | | LINE OF SILT FENCE/STRAW BALES/SILT SOCK |
| | A.P. 138, LOT 80 | | ASSESSOR'S PLAT AND LOT DESIGNATION | | EXISTING CATCH BASIN |
| | PROPOSED CONTOUR | | PROPOSED BUILDING | | EXISTING DRAIN LINE |
| | | | | | PROPOSED DRAIN LINE |
| | | | | | PROPOSED CATCH BASIN |
| | | | | | PROPOSED DIVERSION STRUCTURE |
| | | | | | PROPOSED FLARED END SECTION (FES) |
| | | | | | PROPOSED OUTLET CONTROL STRUCTURE |
| | | | | | ROOFTOP WATER QUALITY TREATMENT |
| | | | | | PROPOSED ROOFTOP DRAIN LINE |
| | | | | | PROPOSED RETAINING WALL |
| | | | | | PROPOSED UTILITY CROSSING |
| | | | | | PROPOSED SAWCUT |
| | | | | | PROPOSED FENCE |
| | | | | | SLOPES GREATER THAN 15% |



NO.	DATE	REVISION
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GRADING AND DRAINAGE PLAN
WILLOW LAKES
 A.P. 16, LOT 3
 NEW LONDON TURNPIKE
 COVENTRY, RI

PREPARED FOR:
LRT NEW LONDON AVE DEVELOPMENT, LLC
 1" = 40'
 FEBRUARY 2021

Drawn By: J.S.C.
 Checked By: J.C.H.
 Sheet

4
 of 12
 FILE NO.: 17.276.403

TEST HOLE DATA

TEST HOLE	EXISTING GRADE	DEPTH TO SHOWT	SHOWT ELEV.	DEPTH TO LEDGE	LEDGE ELEV.	HOLE DEPTH	BOTTOM ELEV.
1	283.6	8.0'	275.6	NONE FOUND	N/A	12.0'	271.6
2	279.6	9.0'	270.6	NONE FOUND	N/A	13.0'	266.6
3	276.2	8.0'	268.2	NONE FOUND	N/A	10.0'	266.2
4	272.2	6.0'	266.2	NONE FOUND	N/A	18.0'	254.2
5, 2005	265.2	5.0'	260.2	NONE FOUND	N/A	13.0'	252.2
2007	282.2	11.0'	271.2	NONE FOUND	N/A	13.0'	269.2
2008	275.1	11.0'	264.1	NONE FOUND	N/A	13.0'	262.1
2009	279.8	9.0'	270.8	NONE FOUND	N/A	15.0'	264.8
2010	280.9	10.0'	270.9	NONE FOUND	N/A	15.0'	265.9
2011	283.8	12.0'	271.8	NONE FOUND	N/A	14.0'	269.8
2012	278.7	8.0'	270.7	NONE FOUND	N/A	14.0'	264.7
2013	270.7	10.7'	260.0	NONE FOUND	N/A	13.0'	257.7
2014	266.9	8.0'	258.9	NONE FOUND	N/A	12.0'	254.9
2015	267.4	8.0'	259.4	NONE FOUND	N/A	13.0'	254.4

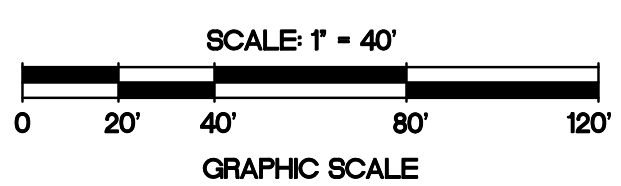
* NO SHOWT FOUND - ASSUMED TO BE 2' ABOVE BOTTOM OF TEST HOLE

STORMWATER MATRIX:

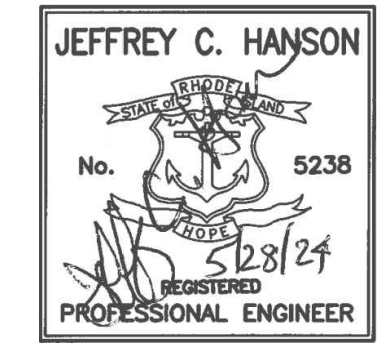
LENGTH OF 8" ADS DRAIN LINE:	2,130 LF
LENGTH OF 10" ADS DRAIN LINE:	87 LF
LENGTH OF 12" ADS DRAIN LINE:	422 LF
LENGTH OF 15" ADS DRAIN LINE:	395 LF
LENGTH OF 18" ADS DRAIN LINE:	752 LF
LENGTH OF 24" ADS DRAIN LINE:	862 LF
NUMBER OF CATCH BASINS:	17
NUMBER OF DRAIN MANHOLES:	4

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REFERENCES:
 1. PLANS ENTITLED "CONSTRUCTION DRAWINGS FOR TIFFANY VILLAGE, A.P. 16, LOT 3, NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND", PREPARED BY MILLSTONE ENGINEERING, P.C. DATED JULY 2011; SHEETS 1-16 OF 16 REVISED THROUGH 2/20/2012.
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 Warwick, RI 02886 | Middletown, RI 02842
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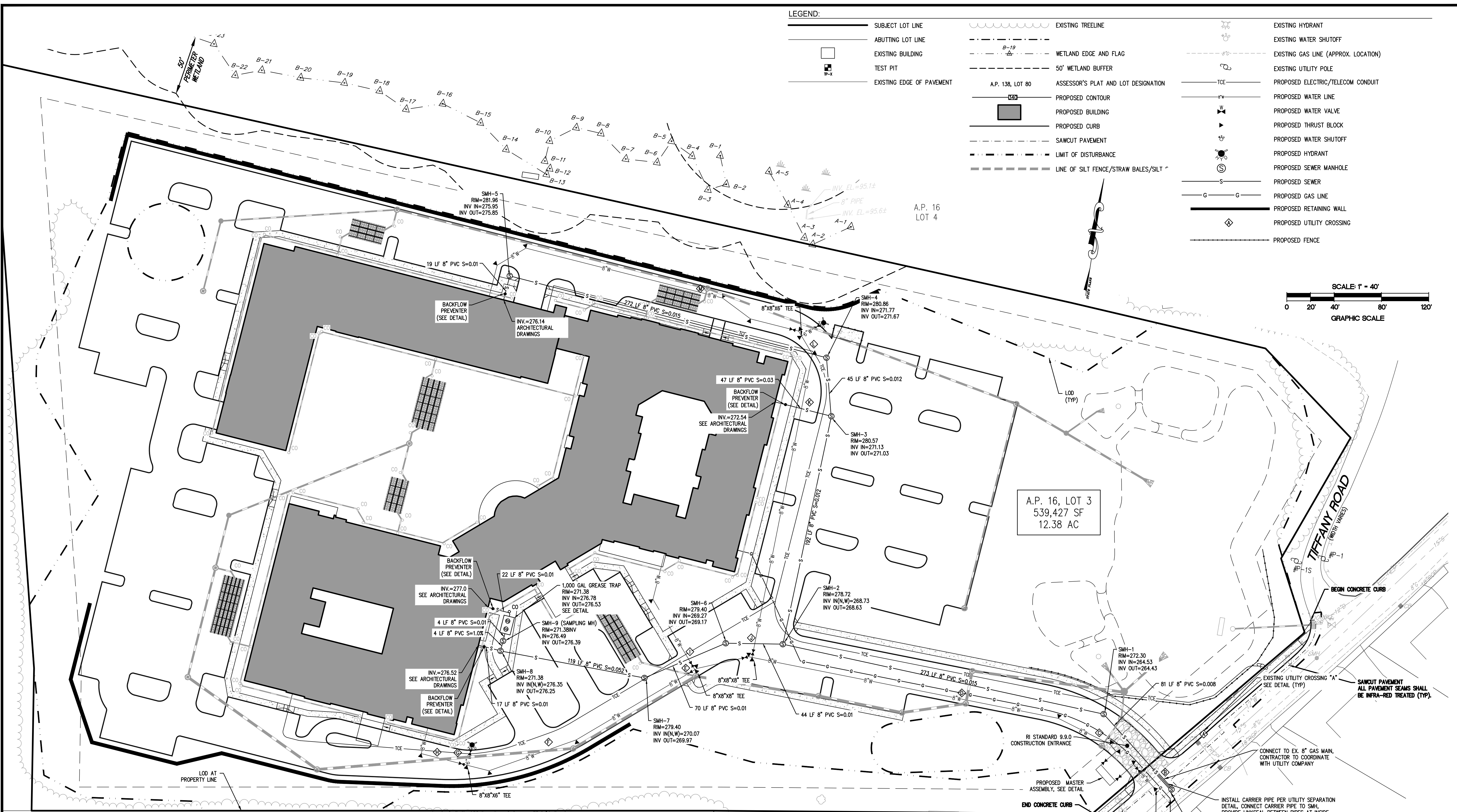
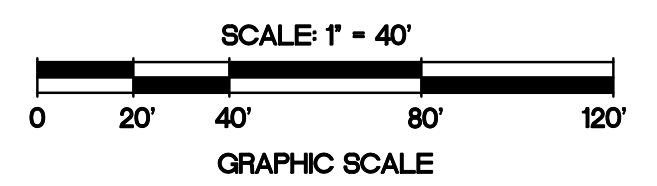
UTILITY PLAN
 WILLOW LAKES
 A.P. 16, LOT 3
 NEW LONDON TURNPIKE
 COVENTRY, RI

PREPARED FOR:
 LRT NEW LONDON AVE
 DEVELOPMENT, LLC
 1" = 40'
 FEBRUARY 2021

Drawn By: J.S.C.
 Checked By: J.C.H.
 Sheet
5
 of 12
 FILE NO.: 17.276.403

LEGEND:

- | | | | | | |
|---|---------------------------|---|-------------------------------------|---|--------------------------------------|
| — | SUBJECT LOT LINE | — | EXISTING TREELINE | — | EXISTING HYDRANT |
| — | ABUTTING LOT LINE | — | EXISTING WATER SHUTOFF | — | EXISTING GAS LINE (APPROX. LOCATION) |
| □ | EXISTING BUILDING | — | WETLAND EDGE AND FLAG | — | EXISTING UTILITY POLE |
| ⊕ | TEST PIT | — | 50' WETLAND BUFFER | — | PROPOSED ELECTRIC/TELECOM CONDUIT |
| — | EXISTING EDGE OF PAVEMENT | — | A.P. 138, LOT 80 | — | PROPOSED WATER LINE |
| — | | — | ASSESSOR'S PLAT AND LOT DESIGNATION | — | PROPOSED WATER VALVE |
| — | | — | PROPOSED CONTOUR | — | PROPOSED THRUST BLOCK |
| — | | — | PROPOSED BUILDING | — | PROPOSED WATER SHUTOFF |
| — | | — | PROPOSED CURB | — | PROPOSED HYDRANT |
| — | | — | SAWCUT PAVEMENT | — | PROPOSED SEWER MANHOLE |
| — | | — | LIMIT OF DISTURBANCE | — | PROPOSED SEWER |
| — | | — | LINE OF SILT FENCE/STRAW BALES/SILT | — | PROPOSED GAS LINE |
| — | | — | | — | PROPOSED RETAINING WALL |
| — | | — | | — | PROPOSED UTILITY CROSSING |
| — | | — | | — | PROPOSED FENCE |



UTILITY CROSSING CHART:

CROSSING	WATER LINE					OTHER UTILITY					SEPARATION (FT)	UPPER UTILITY	NOTE
	SURFACE GRADE	SIZE	DEPTH OF COVER (FT)	TOP OF PIPE ELEV.	BOTTOM OF PIPE ELEV.	SIZE	INVERT ELEVATION	TOP OF PIPE ELEV.	BOTTOM OF PIPE ELEV.				
A	270.01	12" PVC	5	265.01	263.95	12" RCP	265.55	266.74	265.36	1.60	DRAIN	OK	
B	271.08	12" PVC	5	266.08	265.02	8" PVC SEWER	263.94	264.62	263.92	0.39	WATER	CARRIER PIPE	
C	271.89	8" DI	5	266.89	266.14	12" ADS STORM	268.54	269.64	268.44	1.55	DRAIN	OK	
D	275.35	8" DI	6.18	269.17	268.42	24" ADS STORM	270.84	273.01	270.67	1.50	DRAIN	WATER MAIN DROP 1.18 FT MIN.	
E	278.88	8" DI	5	273.88	273.13	12" ADS STORM	275.48	275.58	275.38	1.50	DRAIN	OK	
F	279.29	8" DI	7.13	272.16	271.41	24" ADS STORM	273.83	276.00	273.66	1.50	DRAIN	WATER MAIN DROP 2.13 FT MIN.	
G	280.20	6" DI	7.73	272.47	271.90	24" ADS STORM	274.14	276.31	273.97	1.50	DRAIN	WATER MAIN DROP 2.73 FT MIN.	
H	280.49	8" DI	7.91	272.58	271.83	24" ADS STORM	274.25	276.42	274.08	1.50	DRAIN	WATER MAIN DROP 2.91 FT MIN.	
I	278.96	8" DI	5	273.96	273.21	8" PVC SEWER	269.59	270.27	269.57	2.93	WATER	OK	
J	279.05	8" DI	5	274.05	273.30	8" PVC SEWER	268.95	269.63	268.93	3.66	WATER	OK	
K	281.27	8" DI	5	276.27	275.52	8" PVC SEWER	271.85	272.53	271.83	2.98	WATER	OK	
L	281.05	8" DI	5	276.05	275.30	8" PVC SEWER	271.92	272.60	271.90	2.69	WATER	OK	
M	281.04	8" DI	5	276.04	275.29	12" ADS STORM	277.64	278.74	277.54	1.50	DRAIN	OK	

REFERENCES:

- PLANS ENTITLED "CONSTRUCTION DRAWINGS FOR TIFFANY VILLAGE, A.P. 16, LOT 3, NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND", PREPARED FOR SHERWOOD DEVELOPMENT, LLC, PREPARED BY MILLSTONE ENGINEERING, P.C. DATED JULY 2011; SHEETS 1-16 OF 16 REVISED THROUGH 2/20/2012.
- PLANS ENTITLED "PRELIMINARY SUBMISSION FOR WILLOW LAKES INDEPENDENT LIVING, A.P. 16, LOT 3, NEW LONDON TURNPIKE, COVENTRY, RHODE ISLAND", PREPARED FOR WILLOW LAKE PROPERTIES, LLC, PREPARED BY MILLSTONE ENGINEERING, P.C. DATED FEBRUARY 2021; SHEETS 1-12 OF 12 REVISED THROUGH 6/9/2022.

UTILITY MATRIX:

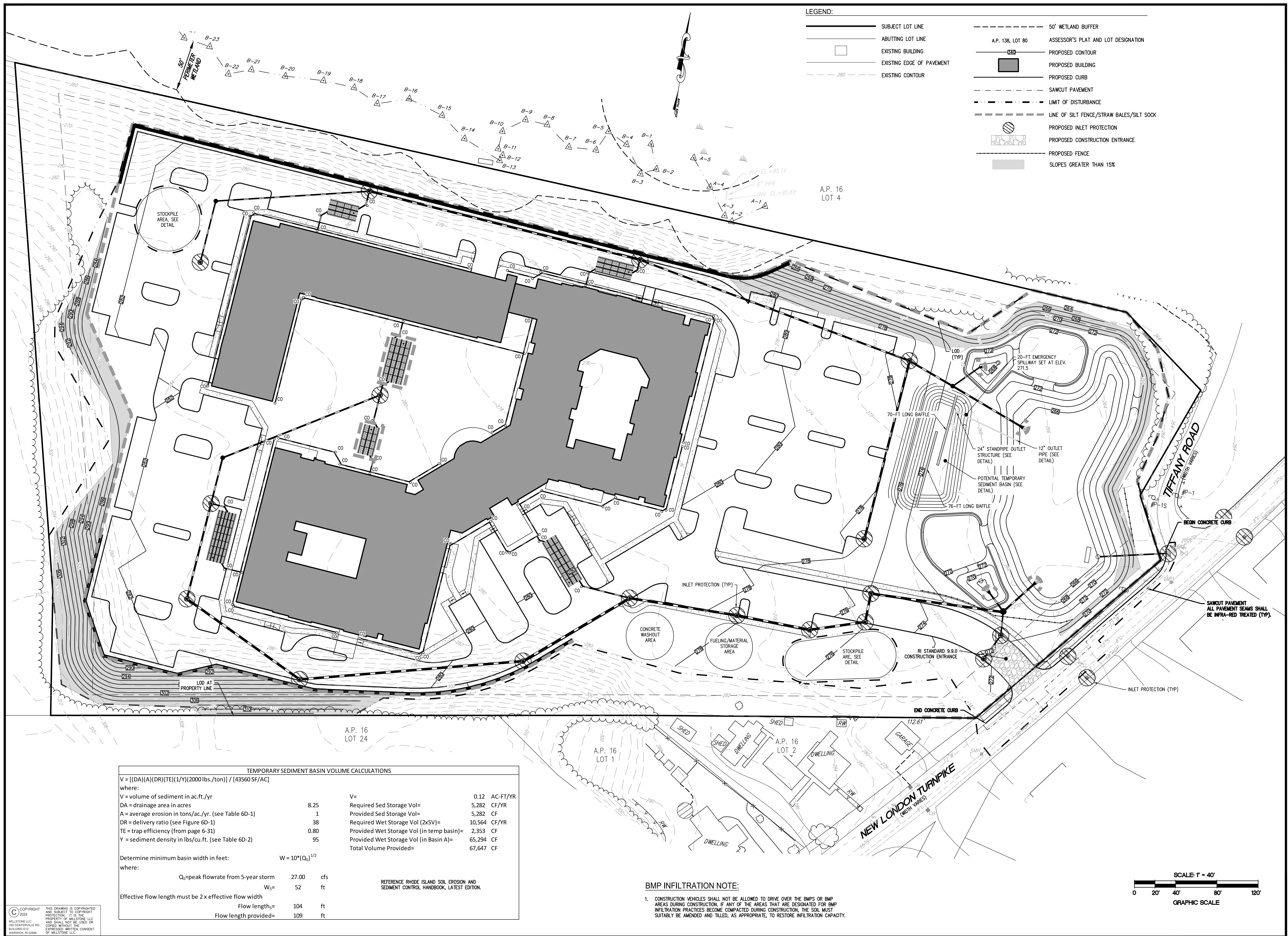
LENGTH OF 6" DUCTILE IRON WATER LINE:	35 LF
LENGTH OF 8" DUCTILE IRON WATER LINE:	1,404 LF
NUMBER OF FIRE HYDRANTS:	2
LENGTH OF SEWER LINE:	1,207 LF
NUMBER OF SEWER MANHOLES:	10
LENGTH OF GAS LINE:	455 LF
LENGTH OF ELEC./TELECOM. TRENCH:	1,380 LF

NOTES:

- SITE CONTRACTOR IS RESPONSIBLE FOR BRINGING UTILITIES WITHIN 5 FEET OF THE BUILDING.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF UTILITY CONNECTIONS.
- LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE BORNE BY THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 72-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-888-344-7233) A MINIMUM OF 72 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.

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- LEGEND:**
- SUBJECT LOT LINE
 - ABUTTING LOT LINE
 - EXISTING BUILDING
 - EXISTING EDGE OF PAVEMENT
 - - - EXISTING CONTOUR
 - - - 50' WETLAND BUFFER
 - A.P. 138, LOT 80
 - PROPOSED CONTOUR
 - PROPOSED BUILDING
 - PROPOSED CURB
 - - - SAWCUT PAVEMENT
 - - - LIMIT OF DISTURBANCE
 - - - LINE OF SILT FENCE/STRAW BALES/SILT SOCK
 - PROPOSED INLET PROTECTION
 - ▨ PROPOSED CONSTRUCTION ENTRANCE
 - PROPOSED FENCE
 - SLOPES GREATER THAN 15%

TEMPORARY SEDIMENT BASIN VOLUME CALCULATIONS

$$V = \frac{[(DA)(A)(DR)(TE)(1/Y)(2000 \text{ lbs./ton})]}{[43560 \text{ SF/AC}]}$$

where:
 V = volume of sediment in ac.ft./yr
 DA = drainage area in acres
 A = average erosion in tons/ac./yr. (see Table 6D-1)
 DR = delivery ratio (see Figure 6D-1)
 TE = trap efficiency (from page 6-31)
 Y = sediment density in lbs/cu.ft. (see Table 6D-2)

DA	8.25	V =	0.12	AC-FT/YR
A	1	Required Sed Storage Vol =	5,282	CF/YR
DR	38	Provided Sed Storage Vol =	5,282	CF
TE	0.80	Required Wet Storage Vol (2xSV) =	10,564	CF/YR
Y	95	Provided Wet Storage Vol (in temp basin) =	2,353	CF
		Provided Wet Storage Vol (in Basin A) =	65,294	CF
		Total Volume Provided =	67,647	CF

Determine minimum basin width in feet: $W = 10 * (Q_p)^{1/2}$

where:
 Q_p = peak flowrate from 5-year storm
 W_s =

Q _p	27.00	ft
W _s	52	ft

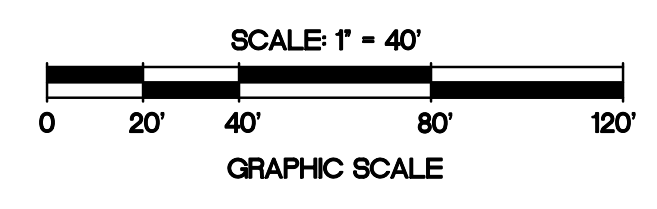
Effective flow length must be 2 x effective flow width

Flow length _s	104	ft
Flow length provided =	109	ft

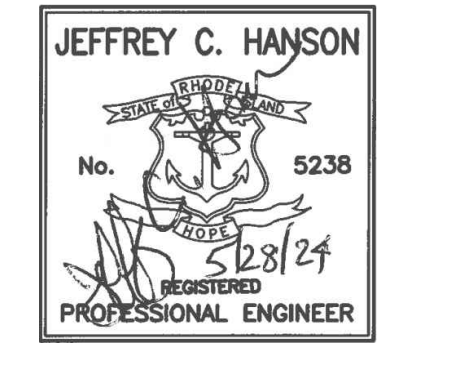
REFERENCE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

BMP INFILTRATION NOTE:

- CONSTRUCTION VEHICLES SHALL NOT BE ALLOWED TO DRIVE OVER THE BMPs OR BMP AREAS DURING CONSTRUCTION. IF ANY OF THE AREAS THAT ARE DESIGNATED FOR BMP INFILTRATION PRACTICES BECOME COMPACTED DURING CONSTRUCTION, THE SOIL MUST SUITABLY BE AMENDED AND TILLED, AS APPROPRIATE, TO RESTORE INFILTRATION CAPACITY.



NO.	DATE	REVISION
1	12/27/21	TOWN COMMENTS
2	01/07/22	RIDEM COMMENTS
4	03/24/22	KCWA COMMENTS
5	06/09/22	KCWA COMMENTS
6	05/28/24	PRELIM. REINSTATEMENT



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SOIL EROSION AND SEDIMENT CONTROL PLAN

WILLOW LAKES

A.P. 16, LOT 3
 NEW LONDON TURNPIKE
 COVENTRY, RI

PREPARED FOR:
 LRT NEW LONDON AVE
 DEVELOPMENT, LLC

1" = 40'
 FEBRUARY 2021

Drawn By: J.S.C.
 Checked By: J.C.H.
 Sheet

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 of 12

FILE NO.: 17.276.403

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GENERAL NOTES:

- 1. THE MOST CURRENT EDITION OF THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE CURRENT VERSION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS. IN ADDITION, THE TOWN OF COVENTRY STANDARD SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.

WATER NOTES:

- 1. THE KENT COUNTY WATER AUTHORITY REQUIREMENTS FOR SERVICE AND MAIN INSTALLATION ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.

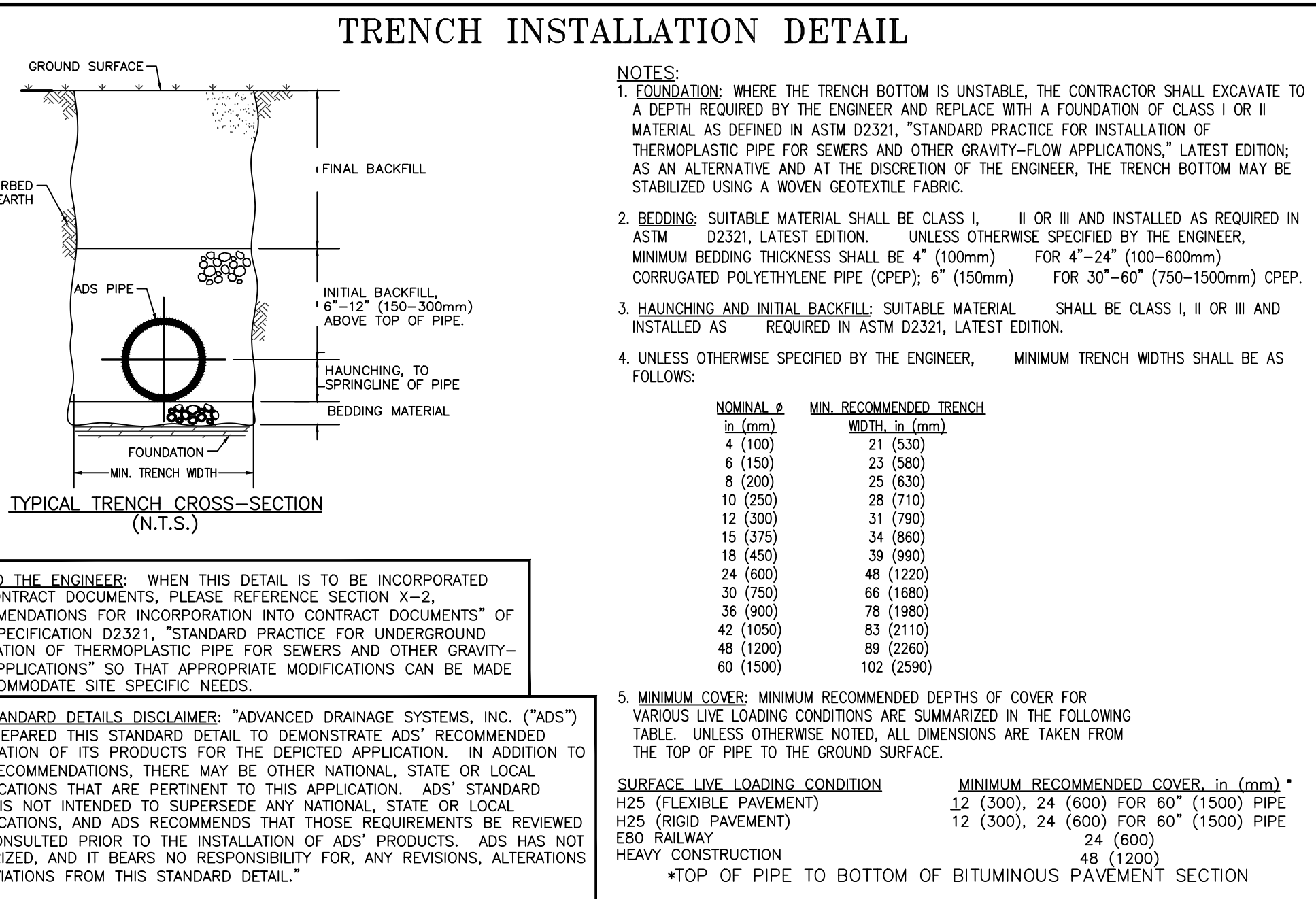
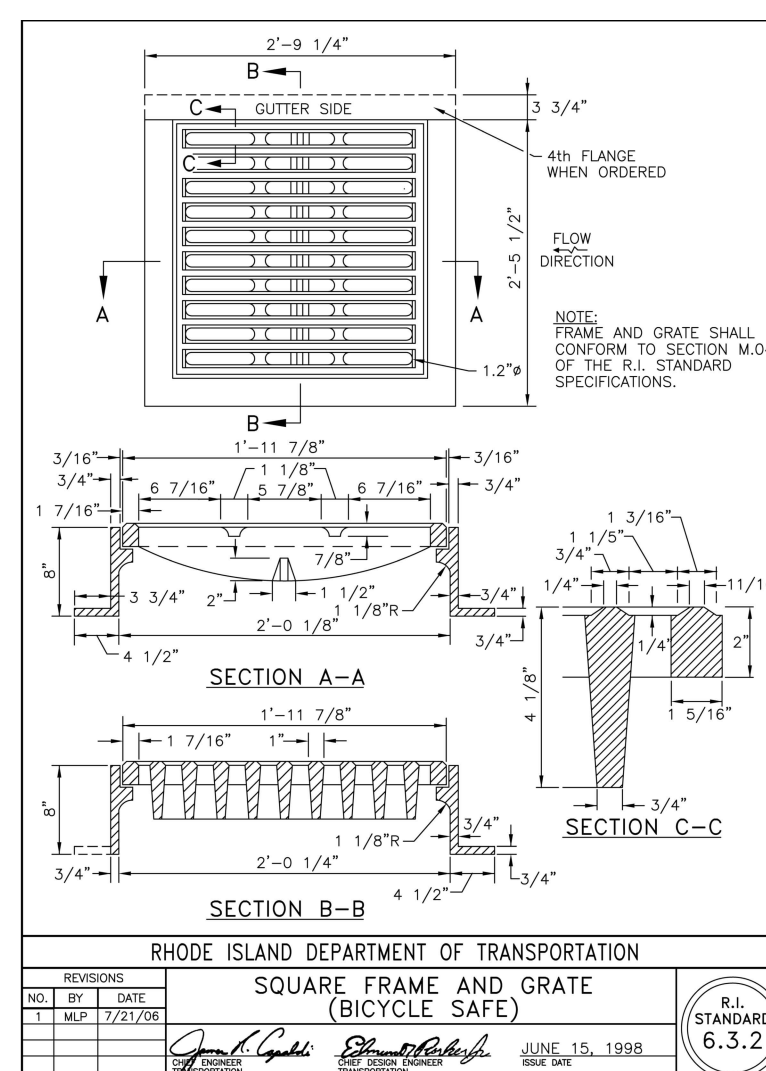
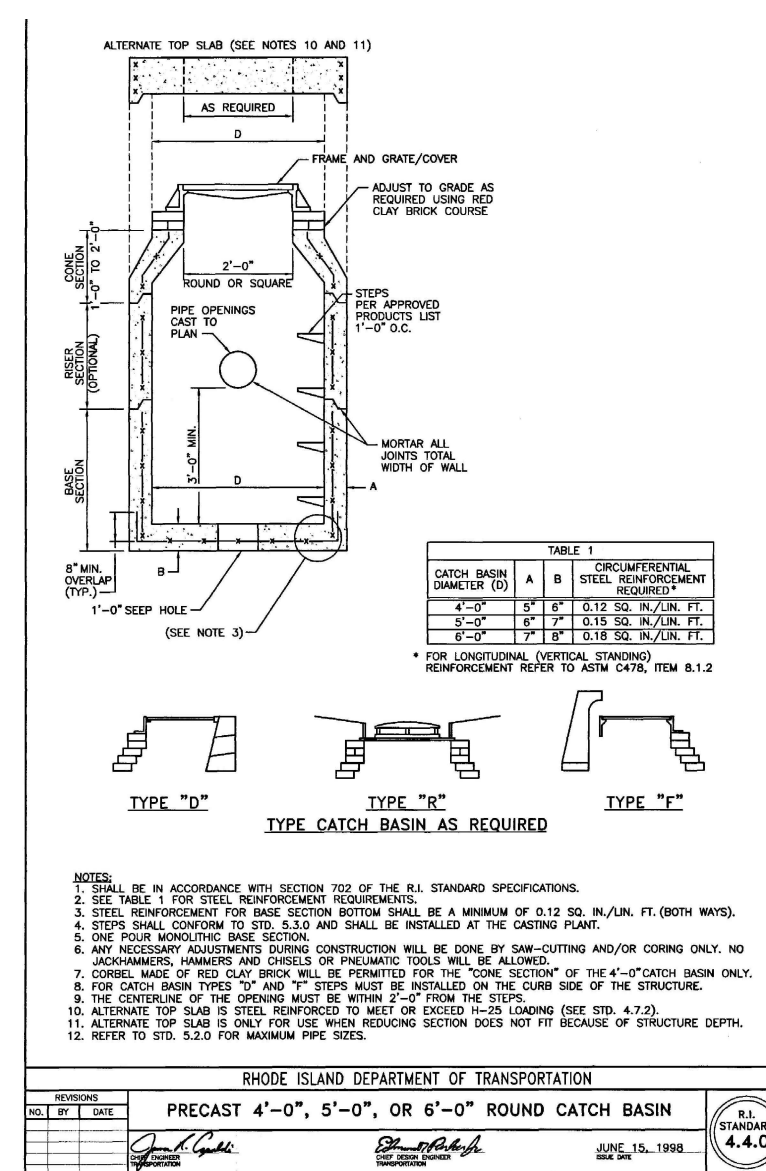
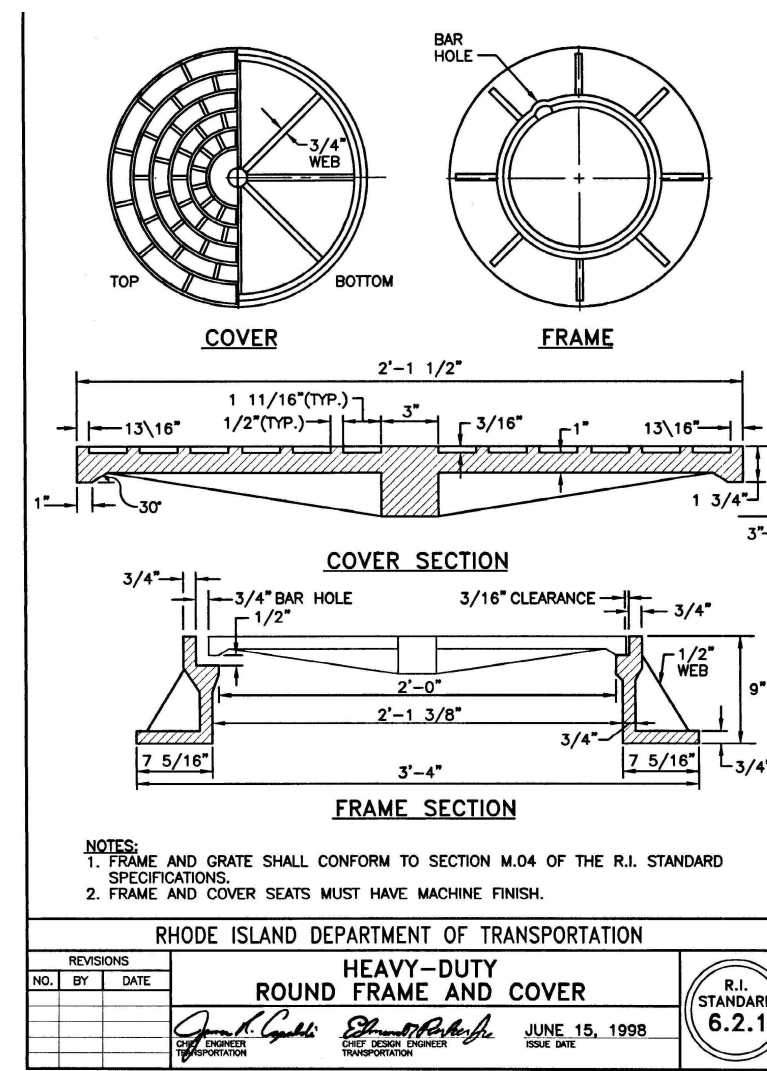
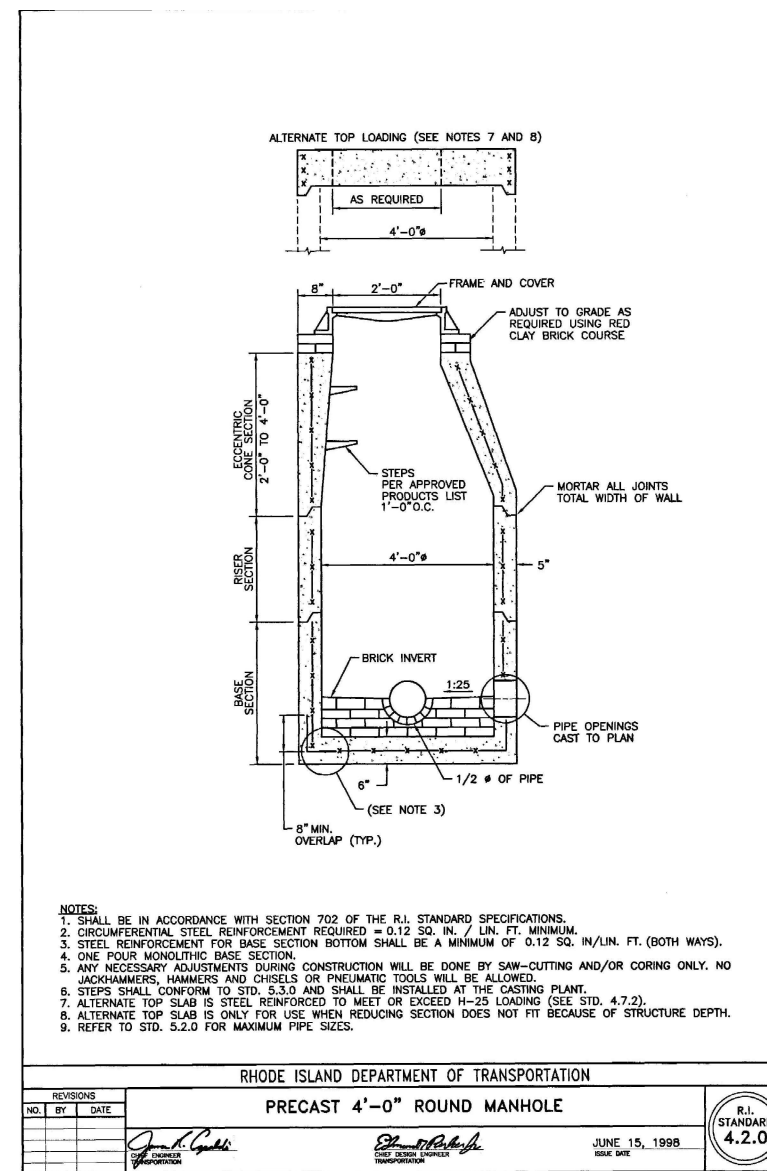
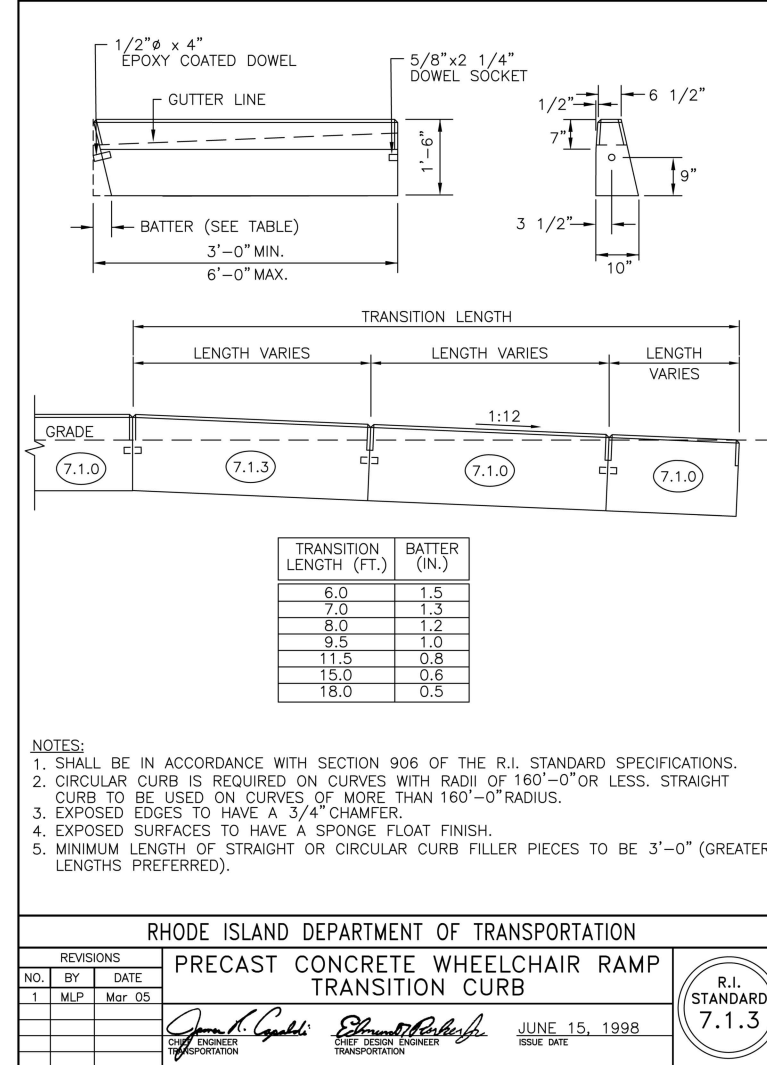
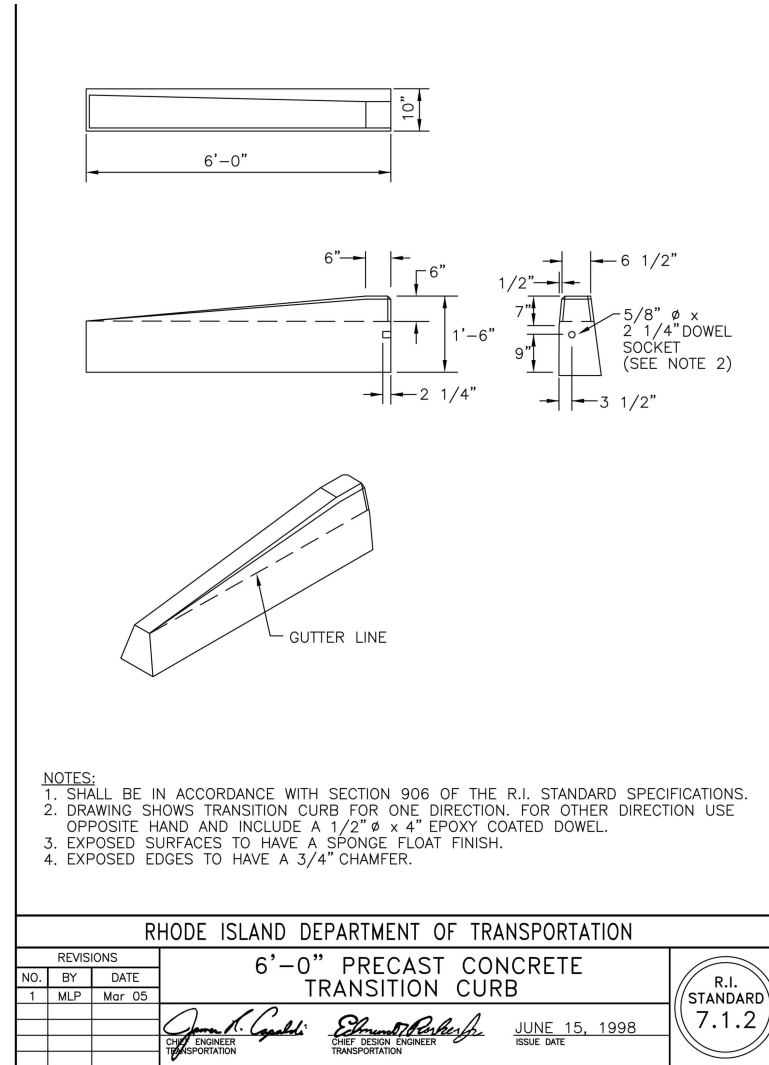
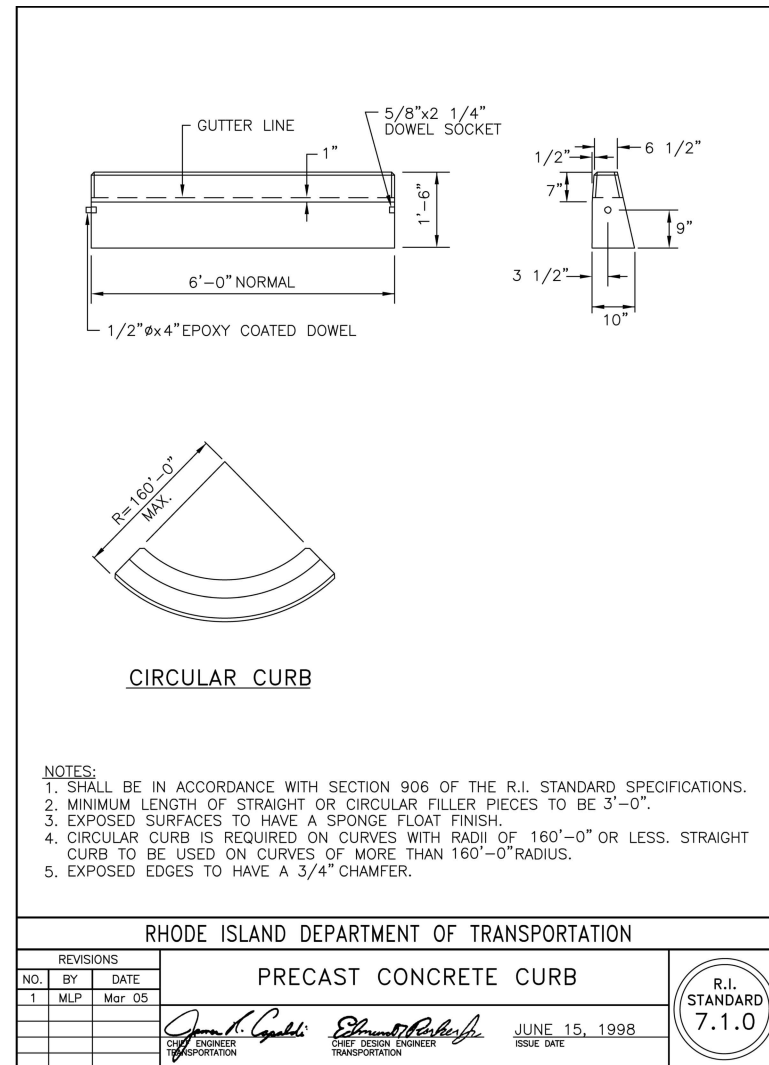
Department of Environmental Management Division of Water Resources (OWR) SEWER LINE/WATER LINE SEPARATION POLICY FOR DESIGN OF SANITARY SEWERS. A. Lateral placement of sewers and water lines. B. Sewers crossing water lines.

CONSTRUCTION SEQUENCE / NARRATIVE

- 1. OBTAIN APPLICABLE PERMITS.

SEWER NOTES:

- 1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN COMPLETE CONFORMANCE WITH THE STANDARD SANITARY SEWER REQUIREMENTS OF THE TOWN OF COVENTRY AND THE STANDARD SANITARY SEWER REQUIREMENTS OF THE WEST WARWICK SEWER COMMISSION (LATEST EDITION).



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Table with columns: NO., DATE, REVISION. Includes entries for 12/27/21 and 05/28/24.

Professional Engineer stamp for Jeffrey C. Hanson, No. 5238.

Millstone LLC logo and contact information: ENGINEERING • SURVEYING • PERMITTING.

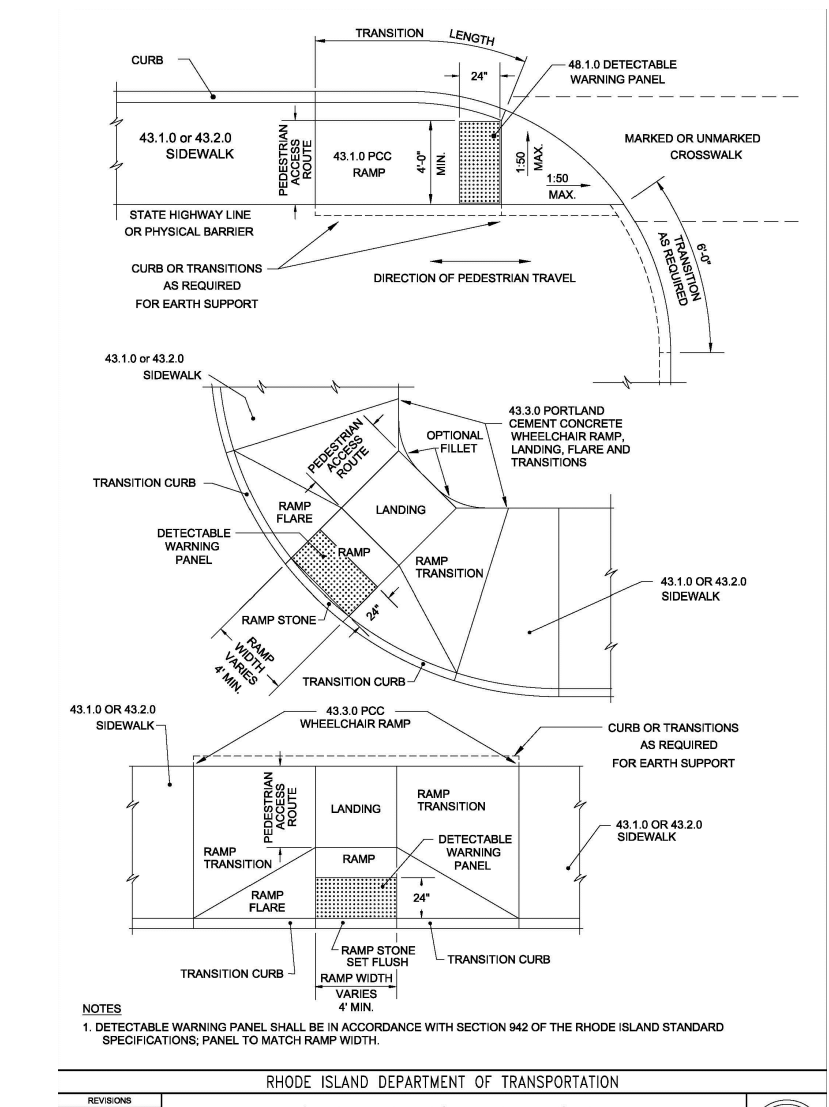
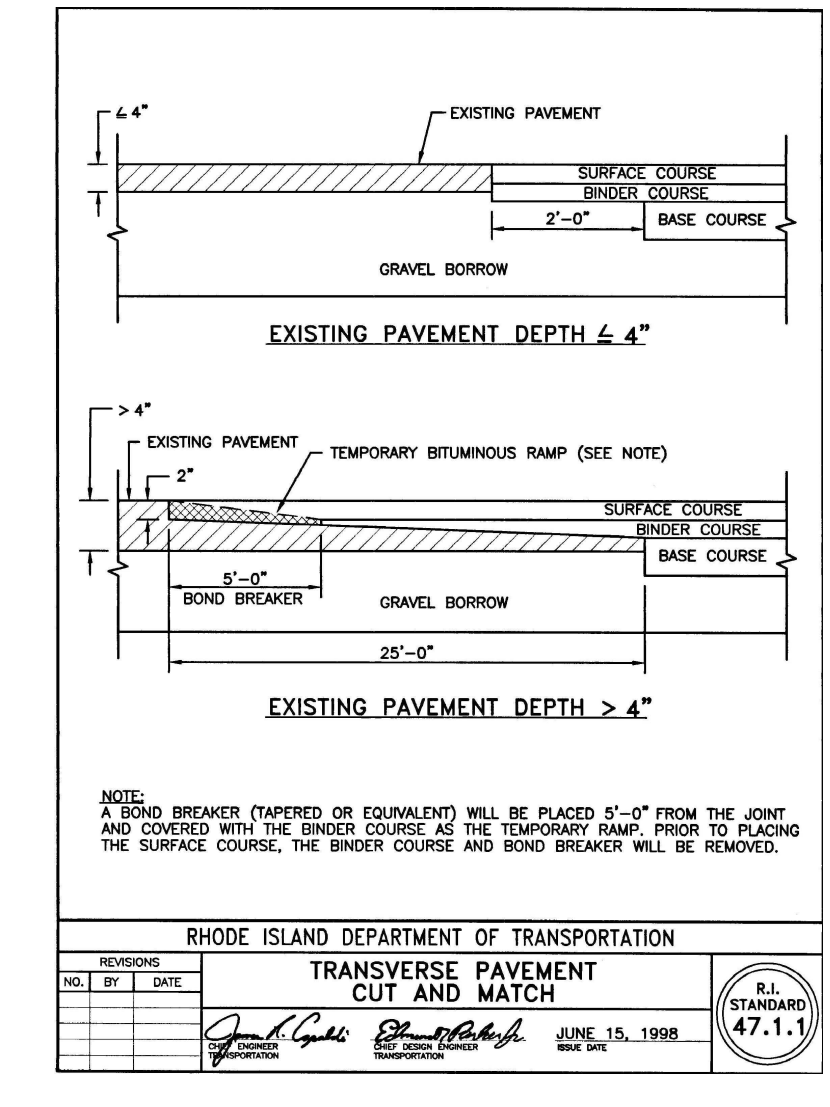
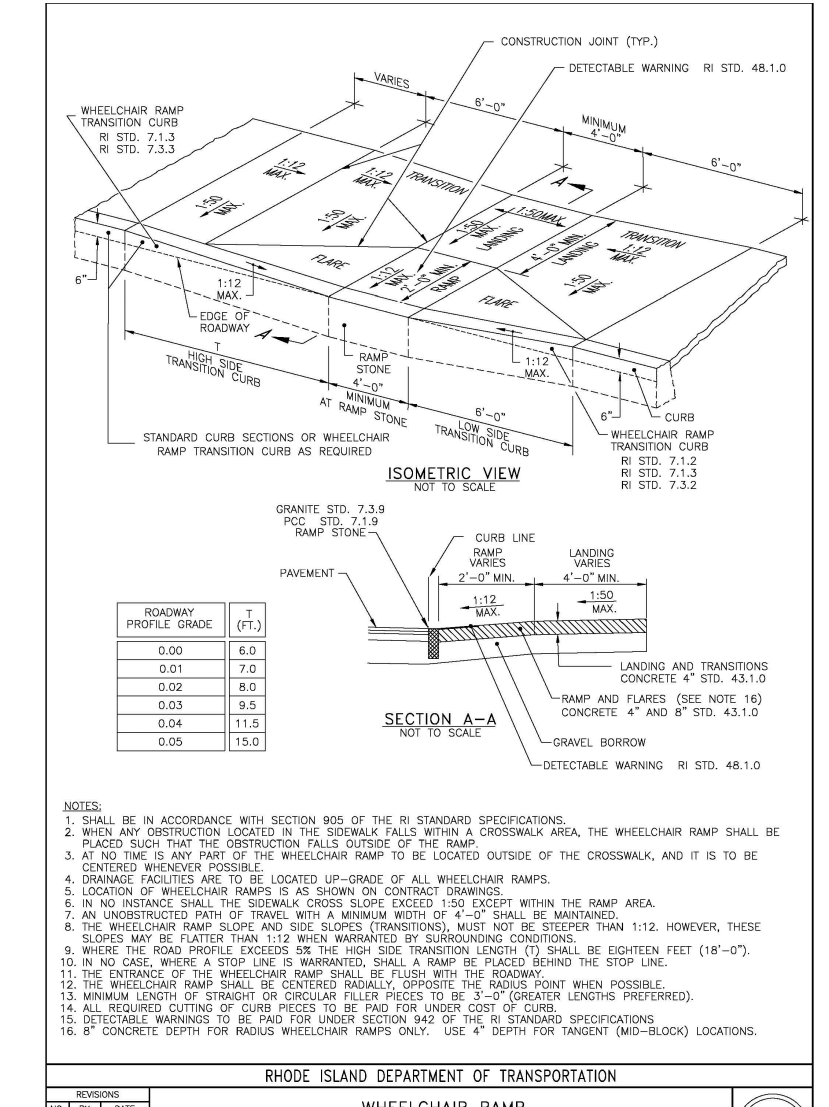
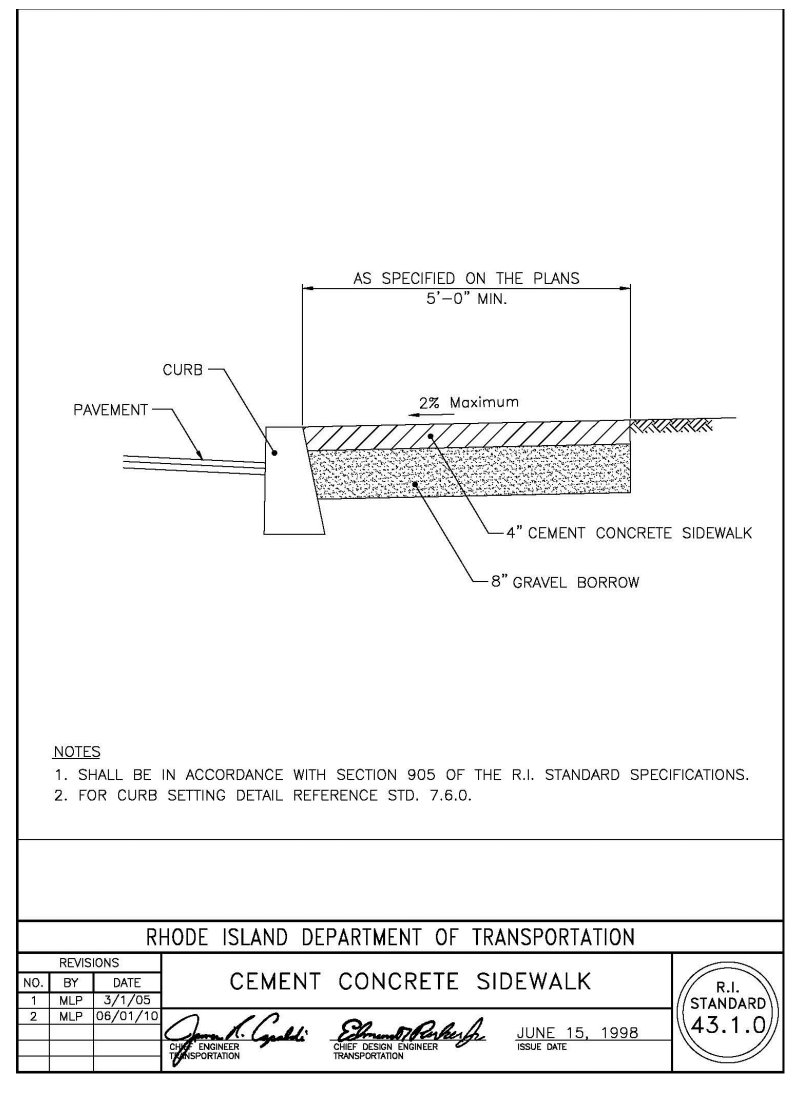
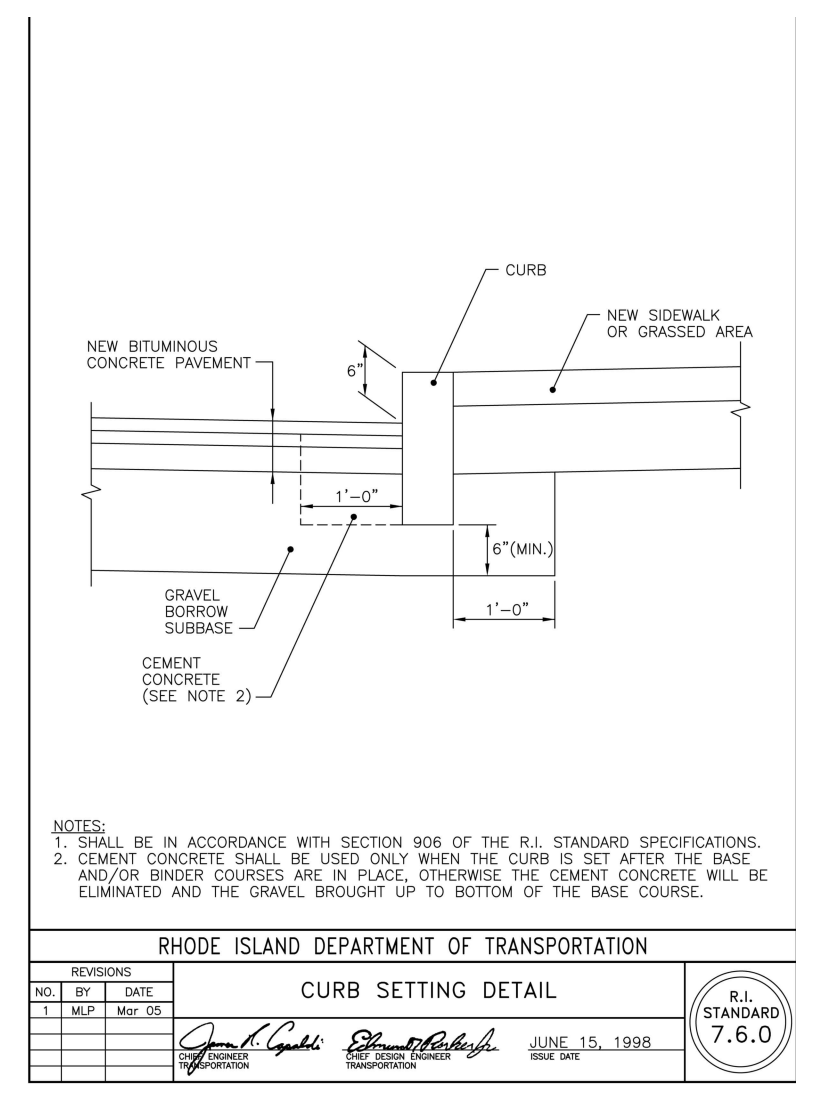
NOTES & DETAILS

WILLOW LAKES A.P. 16, LOT 3 NEW LONDON TURNPIKE COVENTRY, RI

PREPARED FOR: LRT NEW LONDON AVE DEVELOPMENT, LLC

SCALE AS NOTED FEBRUARY 2021

Drawn By: J.S.C. Checked By: J.C.H. Sheet



ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

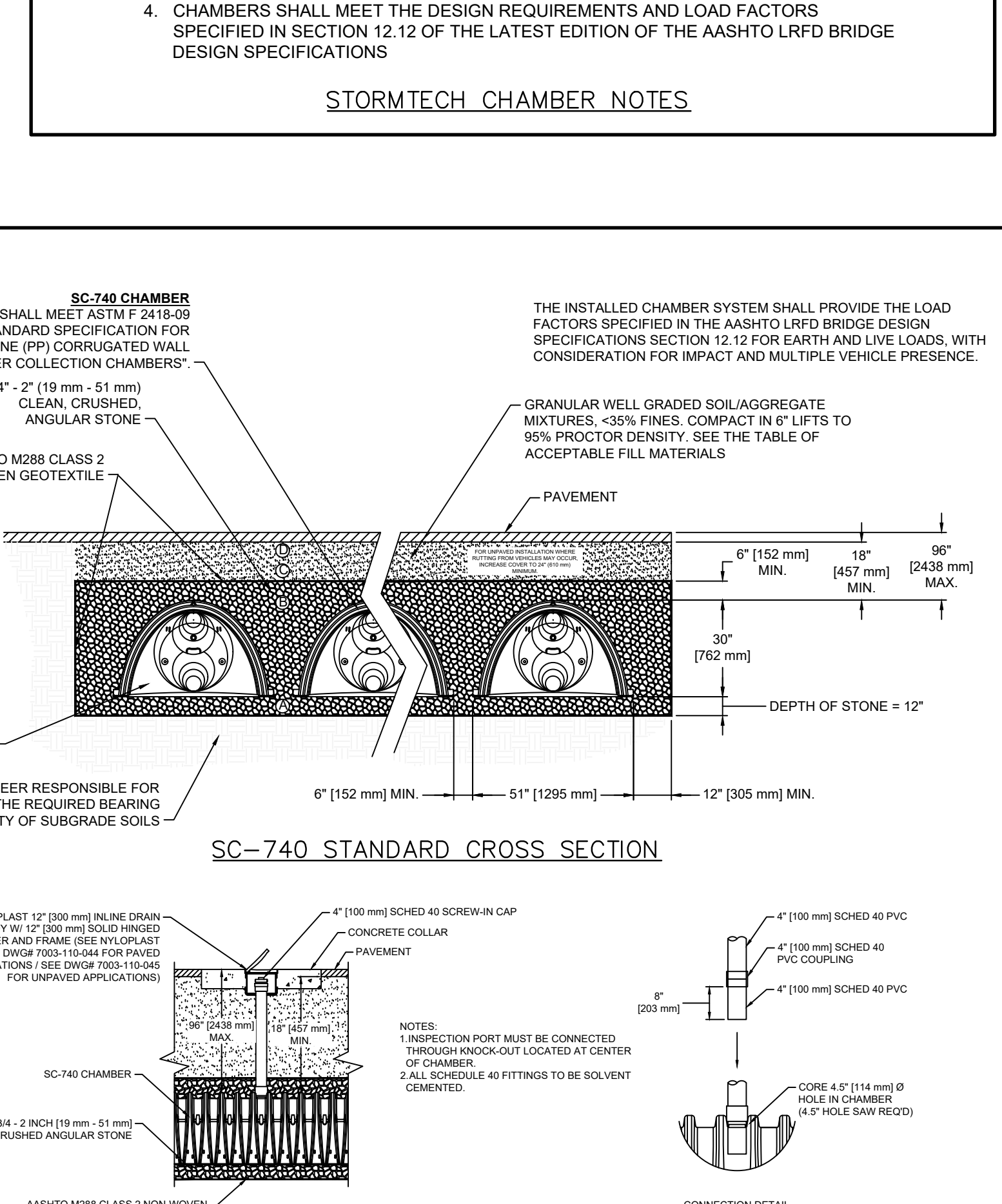
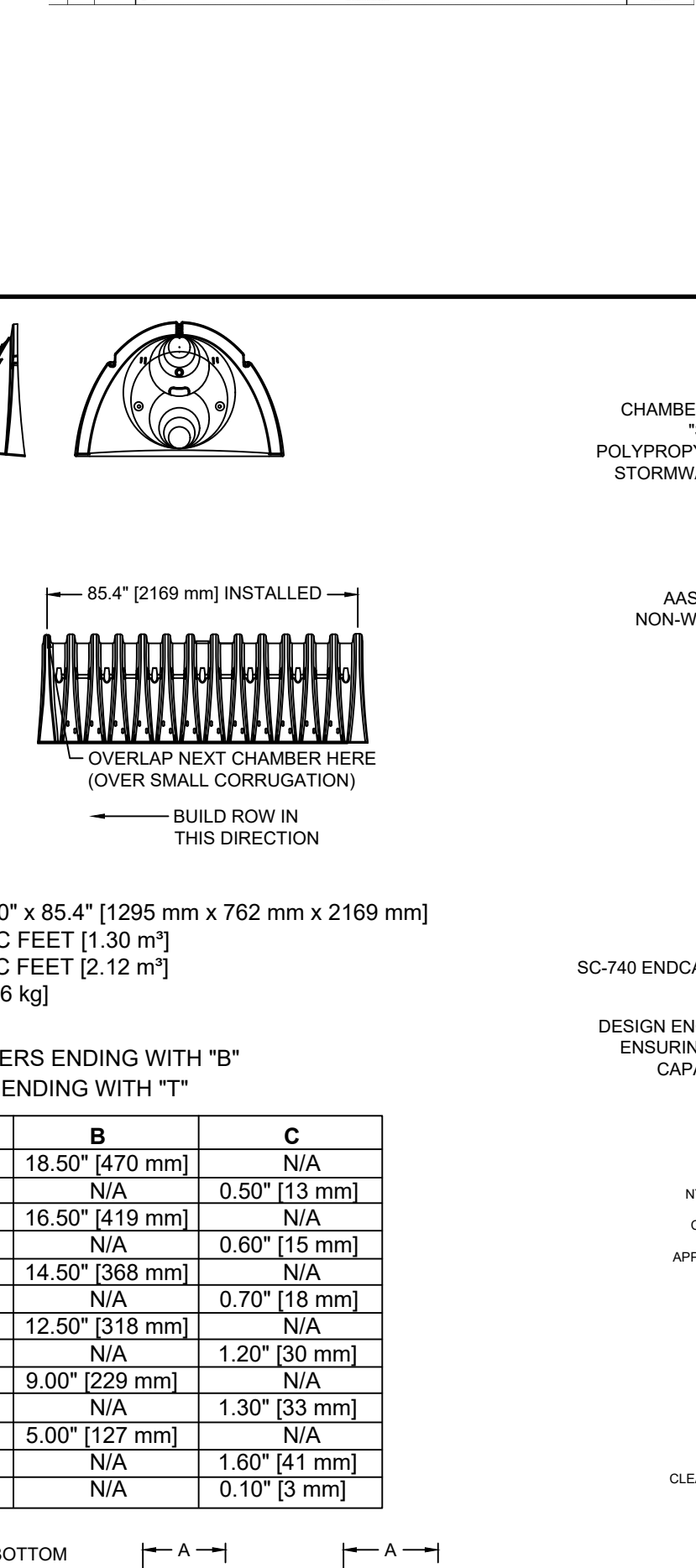
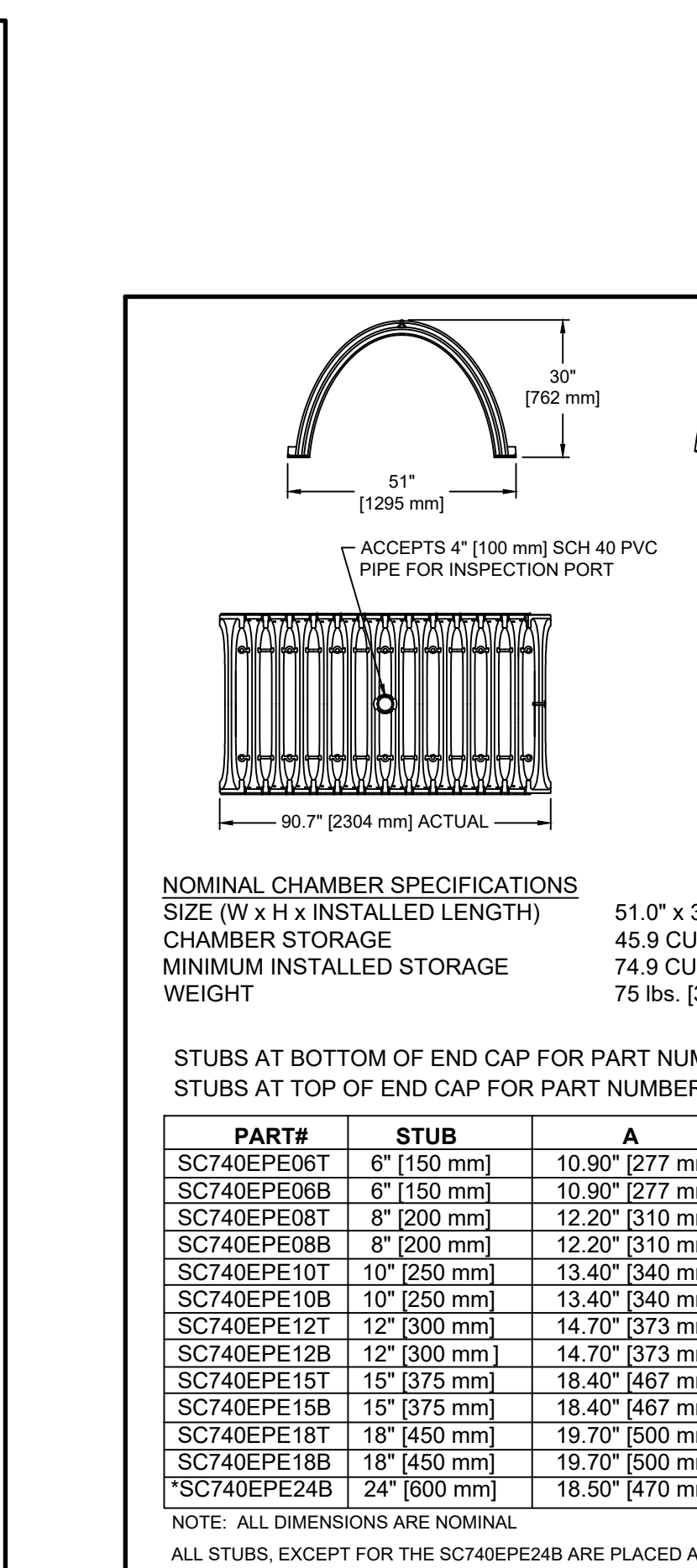
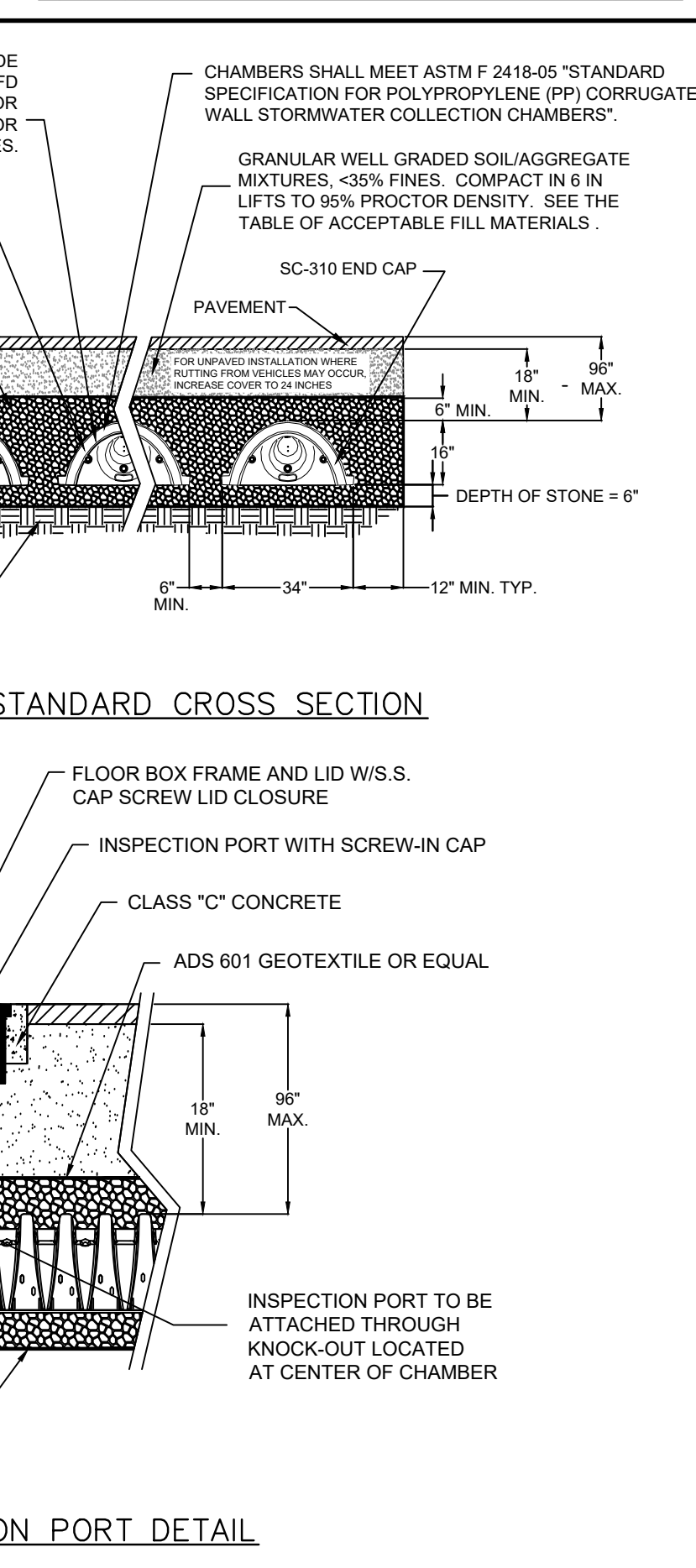
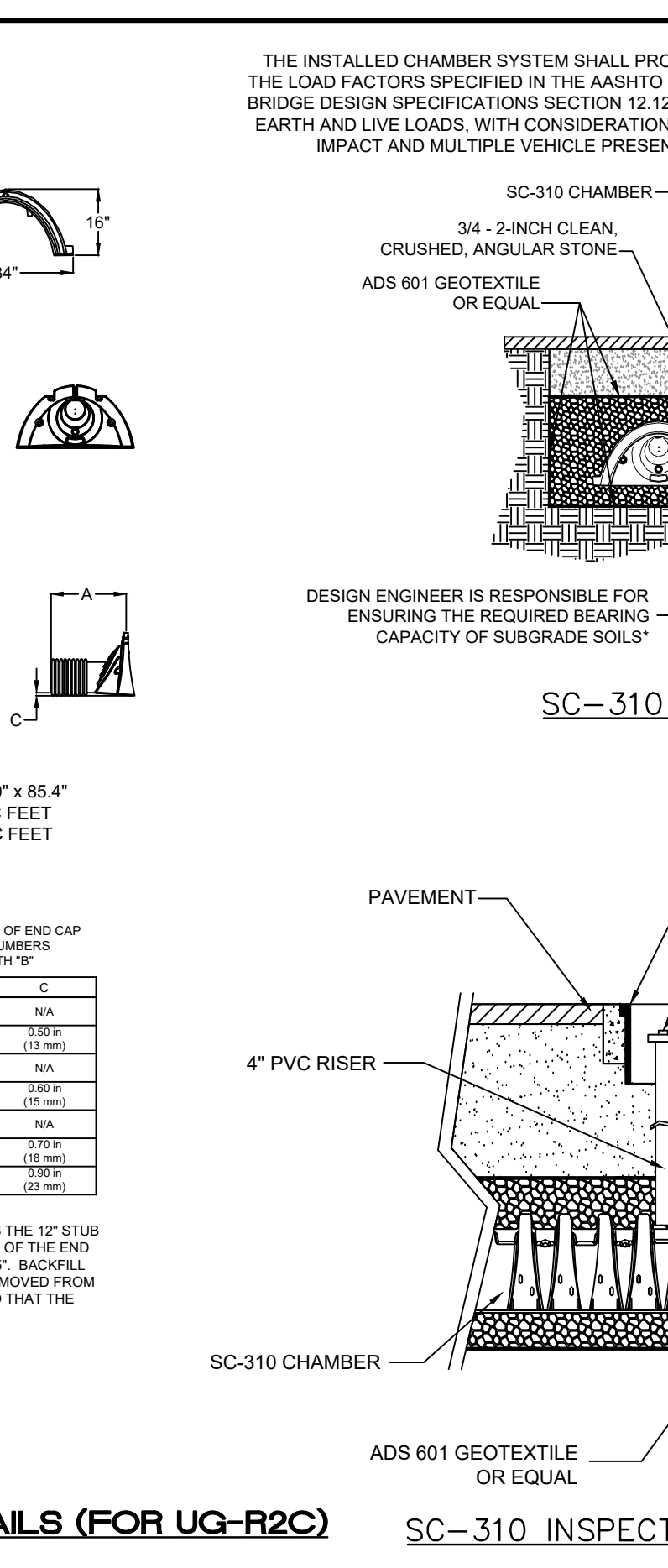
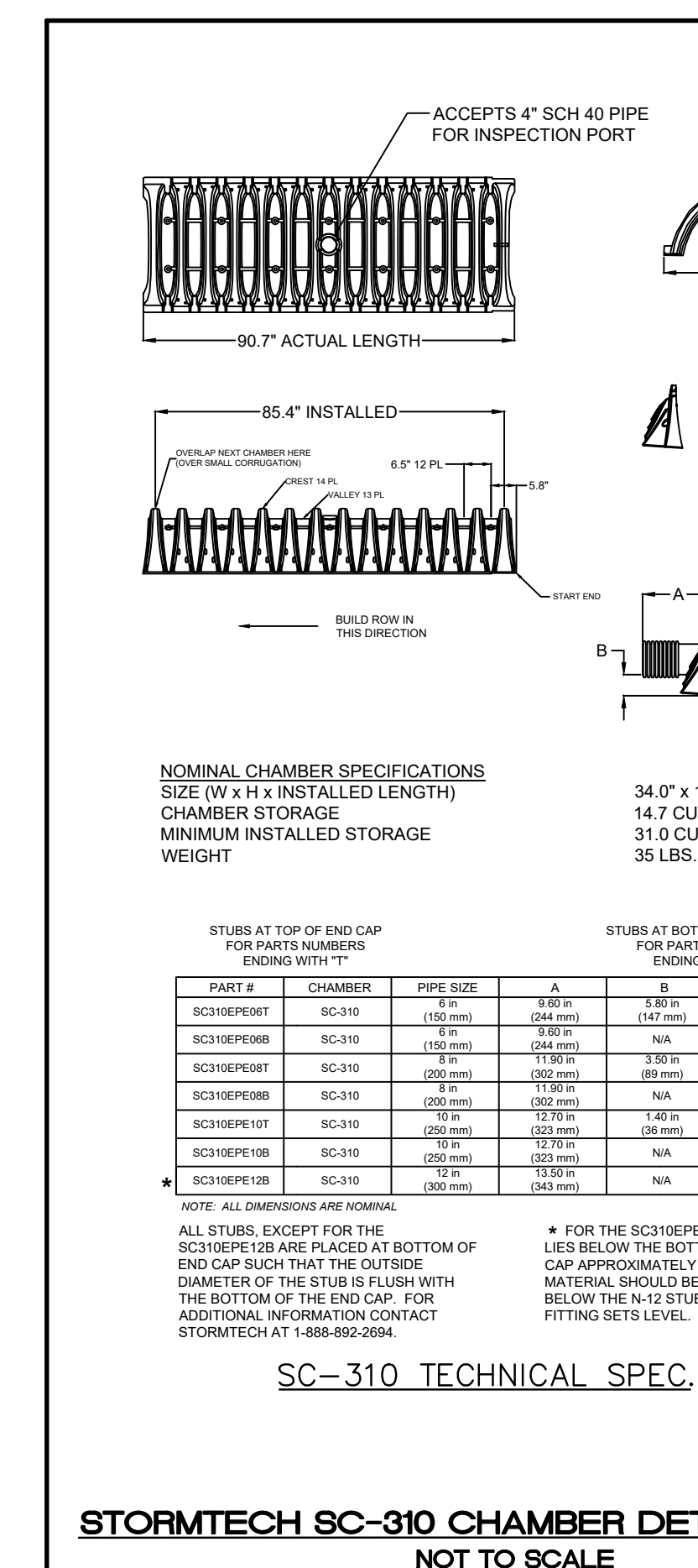
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION*	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF THE EXISTING PAVEMENT OR UNPAVED PAVEMENT ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THIS LAYER.	ANY SUBSOIL MATERIALS, MATHE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS.	NA	PREPARE PER ENGINEER'S PLANS. FINED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
② FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EXISTING STONE OR LAYER TO THE TOP OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES - <35% FINES. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3.307, 4.407, 5.16, 5.17, 6.67, 6.87, 7.76, 8.8, 9.12	BEGIN COMPACTION AFTER 1" [25 mm] OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 1" [25 mm] LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY. (ROLLER GRADES VEHICLE WEIGHT NOT TO EXCEED 12,000 LB [50 kN] DYNAMIC FORCE NOT TO EXCEED 30,000 LB [80 kN])
③ EMBEDED STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (OR LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" [19-51 mm]	3.307, 4.407, 5.16, 5.17	NO COMPACTION REQUIRED.
④ FOUNDATION STONE BELOW CHAMBERS FROM THE SURFACE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" [19-51 mm]	3.30, 4.407, 5.16, 5.17	PLATE COMPACTION OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY*

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 3" [75 mm] (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

STORMTECH ACCEPTABLE FILL MATERIALS

- ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
- THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-992-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

STORMTECH CHAMBER NOTES

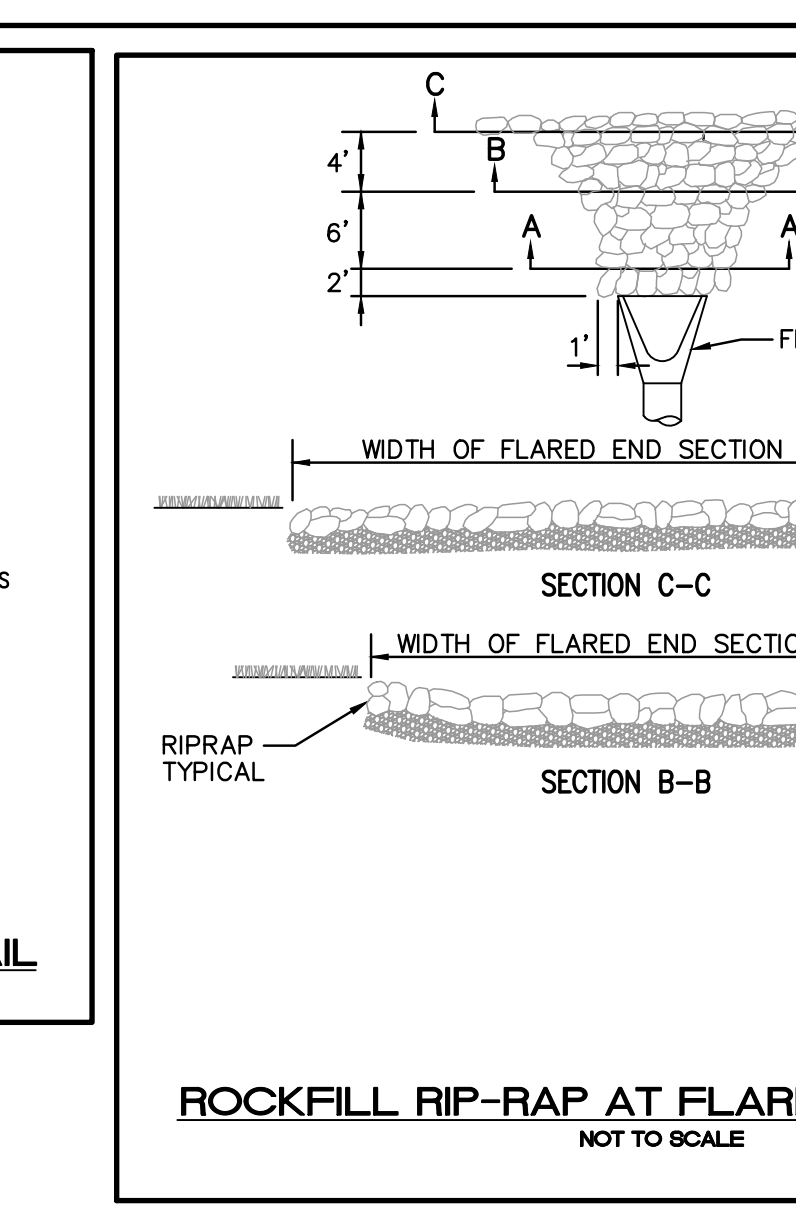
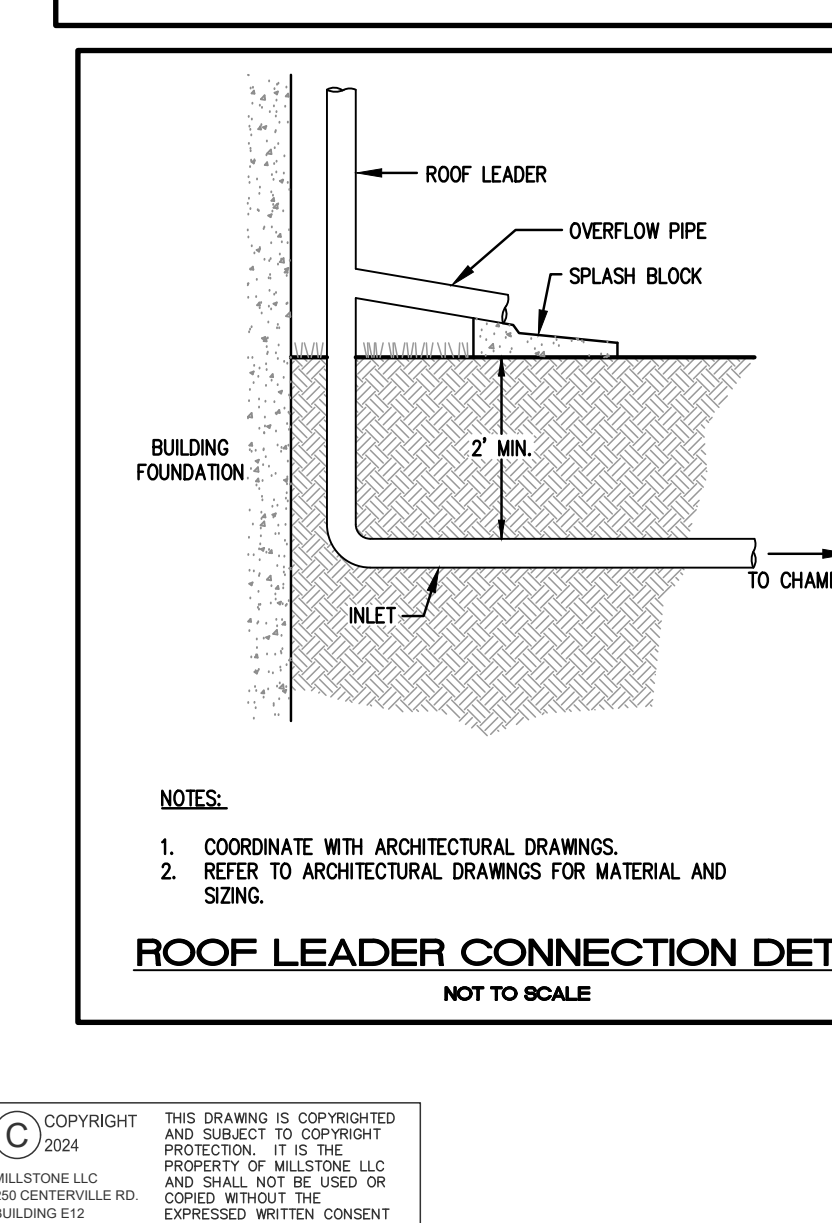


STORMTECH SC-740 CHAMBER DETAILS (FOR UG-R1A, UG-R1B, UG-R2A, UG-R2B, UG-R2D)

NOT TO SCALE

CHAMBER ID	TEST PIT #	PROPOSED GRADE @ LOWEST POINT (A)	INVERT IN ELEV (B)	INVERT OUT ELEV (C)	BOTTOM OF STONE ELEV (D)	SHGW ELEV (E)	SEPARATION FROM GROUNDWATER (F)
UG-R1a	2007	281.12	278.33	278.16	276.12	271.20	4.92
UG-R1b	2008	280.93	278.14	277.97	275.93	264.10	11.83
UG-R2a	2009	281.06	278.27	278.10	276.06	270.80	5.26
UG-R2b	2010	281.30	278.51	278.34	276.30	270.90	5.40
UG-R2c	2011	280.50	278.88	278.71	277.17	271.80	5.37
UG-R2d	2012	279.82	277.03	276.86	274.82	270.70	4.12

NOTES:
 1. UG-R2A: CONTRACTOR TO REMOVE AND REPLACE THE MATERIAL WITHIN THE LIMITS OF THE UNDERGROUND STORAGE AREA FROM ELEVATION 276.06 (BOTTOM OF STONE) TO ELEVATION 272.38. EXISTING MATERIAL TO BE REPLACED WITH SAND, MEETING USDA SOIL TEXTURE SPECIFICATIONS AND HAVING A DESIGN INFILTRATION RATE OF 8.27 IN/HR.



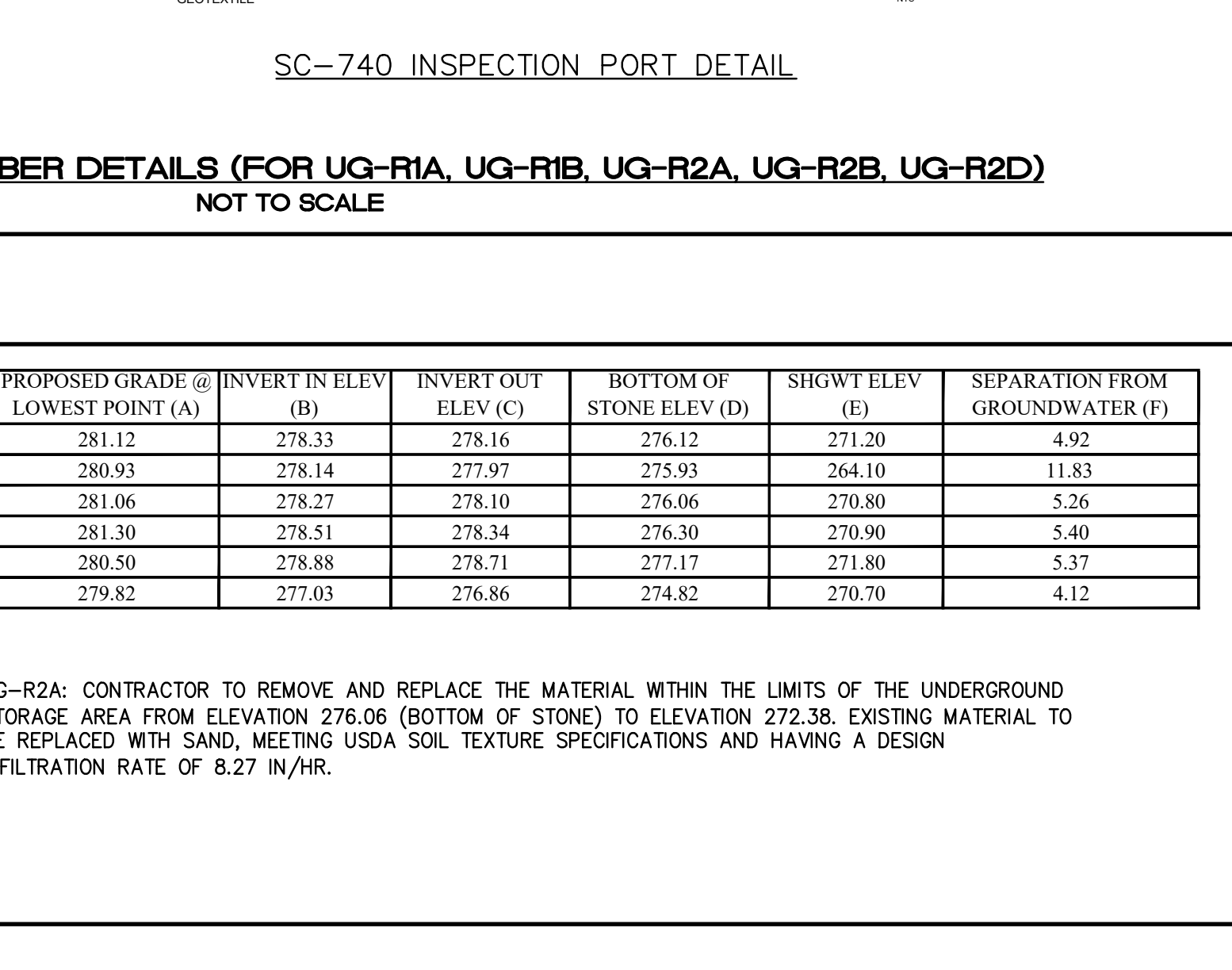
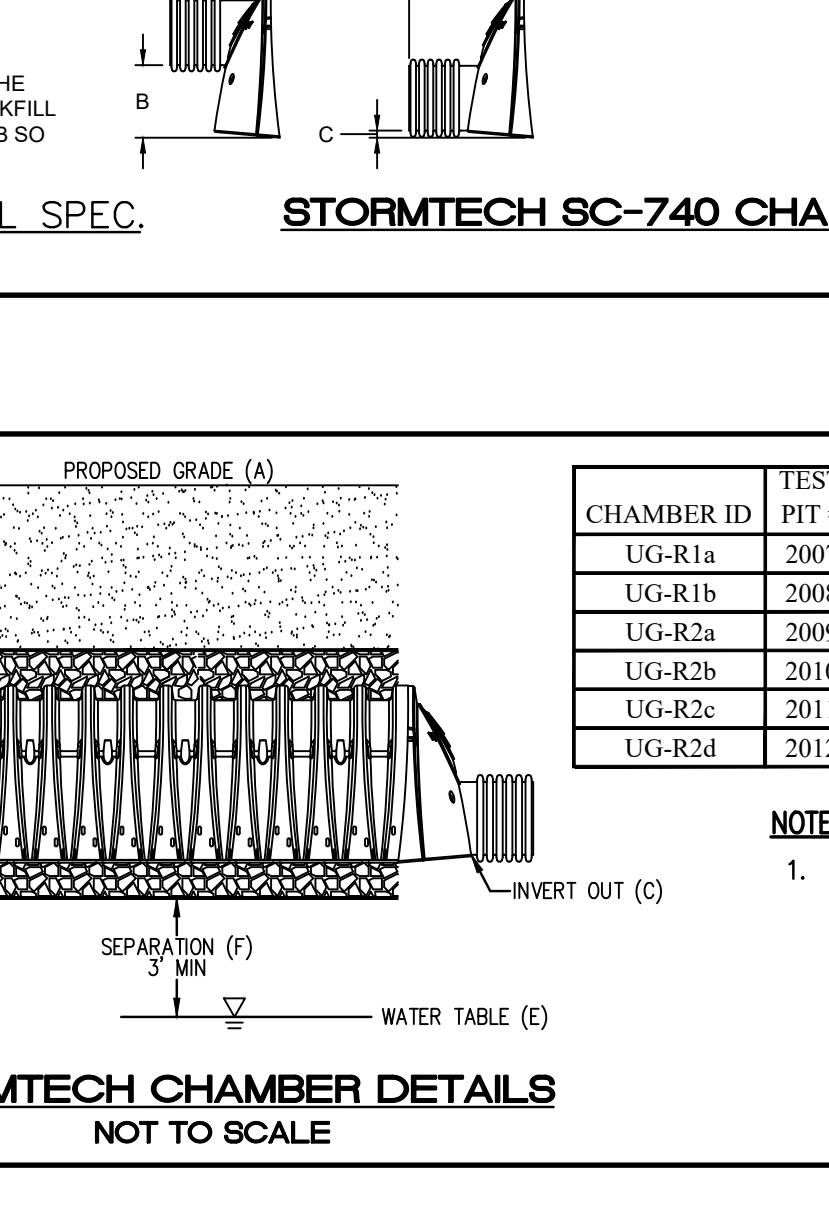
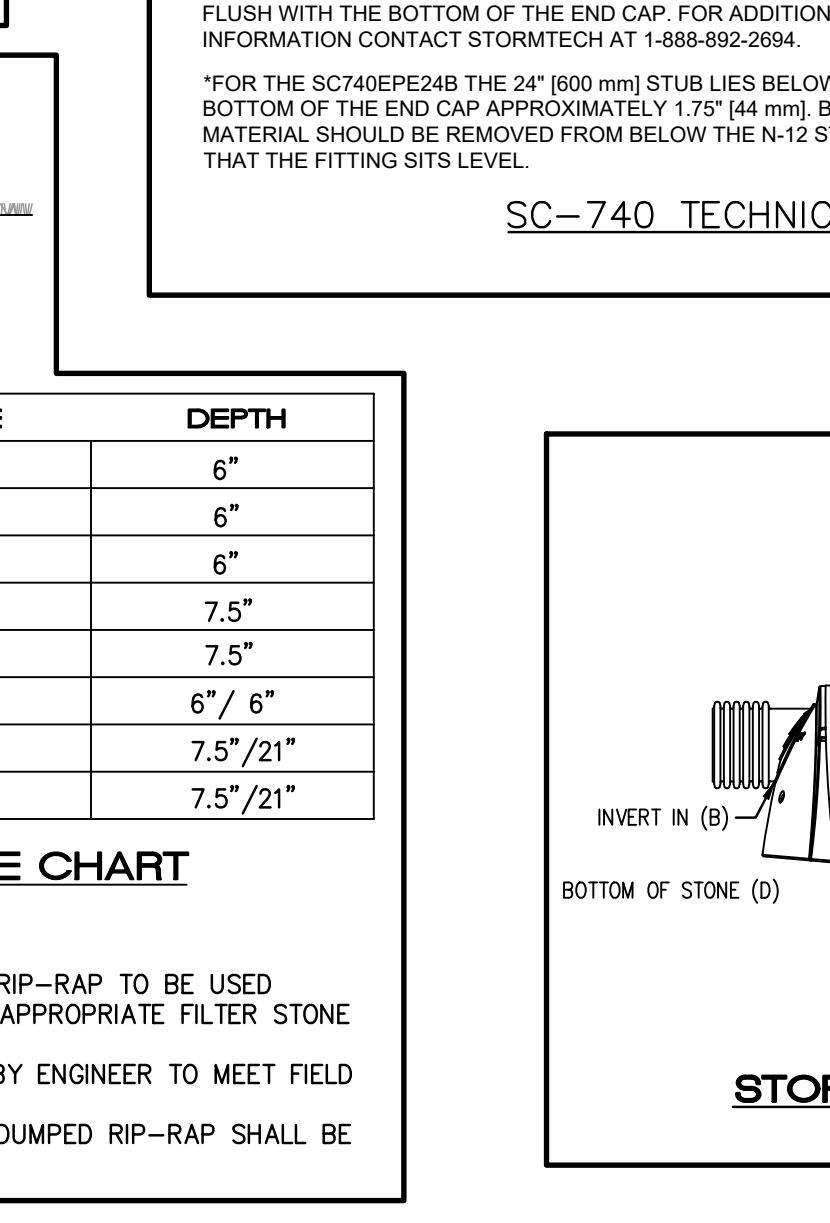
ROCKFILL RIP-RAP AT FLARED END SECTION

NOT TO SCALE

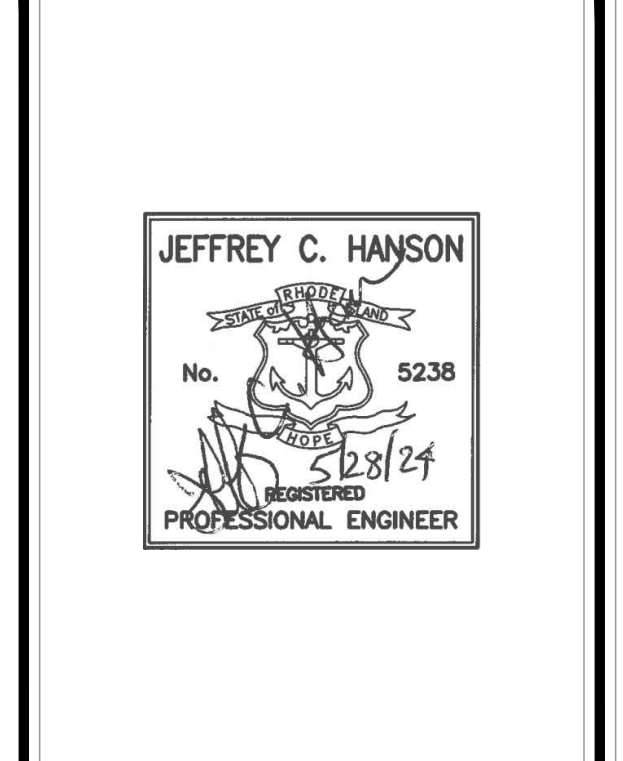
RIPRAP	FILTER STONE	DEPTH
R-1	FS-1	6"
R-2	FS-2	6"
R-3	FS-2	6"
R-4	FS-3	7.5"
R-5	FS-3	7.5"
R-6	FS-2 and R-2	6"/ 6"
R-7	FS-3 and R-4	7.5"/ 21"
R-8	FS-3 and R-4	7.5"/ 21"

FILTER STONE CHART

NOTES:
 1. SEE SITE PLAN FOR CLASS OF RIP-RAP TO BE USED.
 2. SEE FILTER STONE CHART FOR APPROPRIATE FILTER STONE TYPE AND DEPTH.
 3. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 4. UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.



NO.	DATE	REVISION
6	05/28/24	PRELIM. REINSTATEMENT



Millstone LLC
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WILLOW LAKES

A.P. 16, LOT 3
 NEW LONDON TURNPIKE
 COVENTRY, RI

PREPARED FOR:
**LRT NEW LONDON AVE
 DEVELOPMENT, LLC**

SCALE AS NOTED
 FEBRUARY 2021

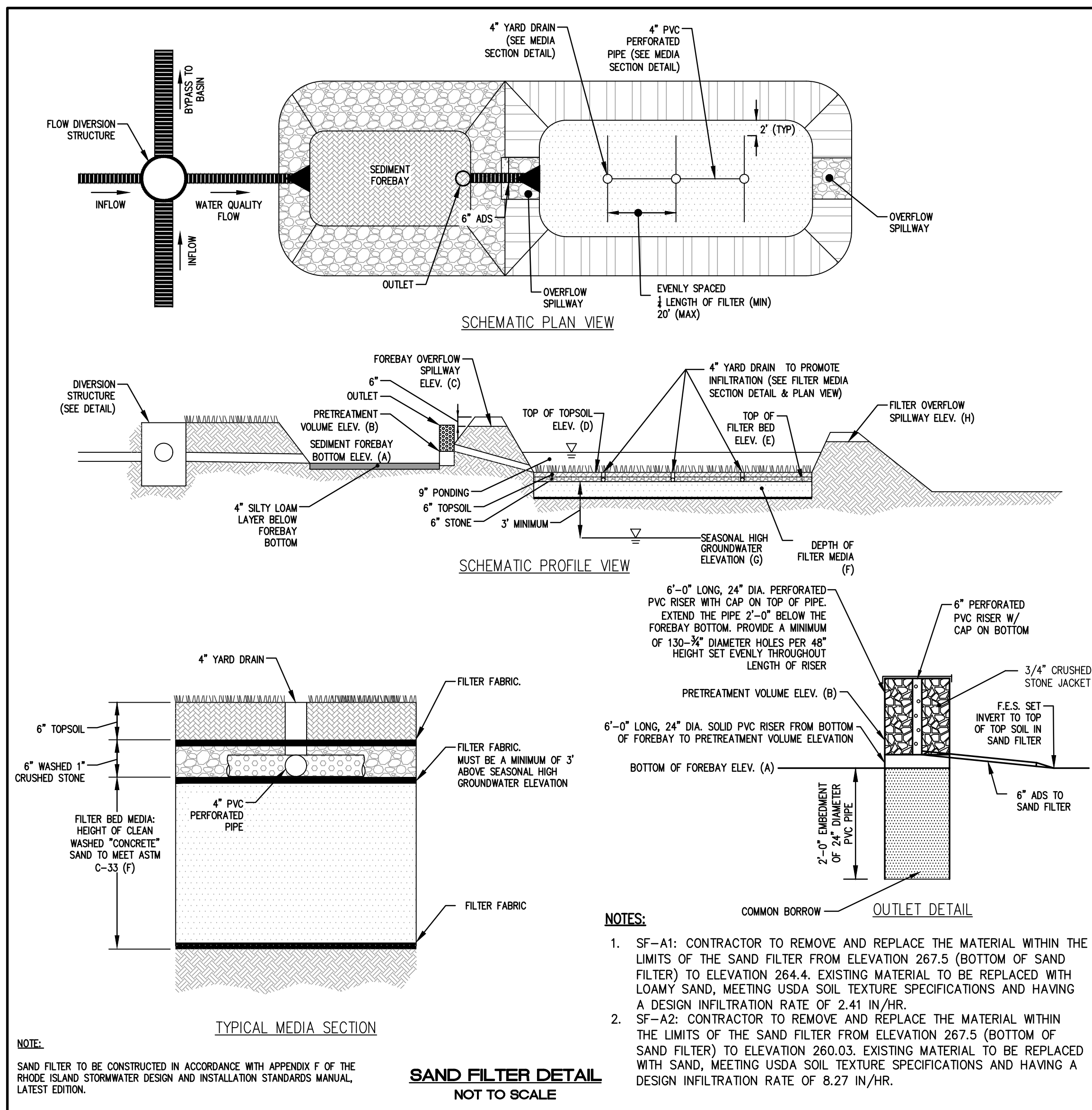
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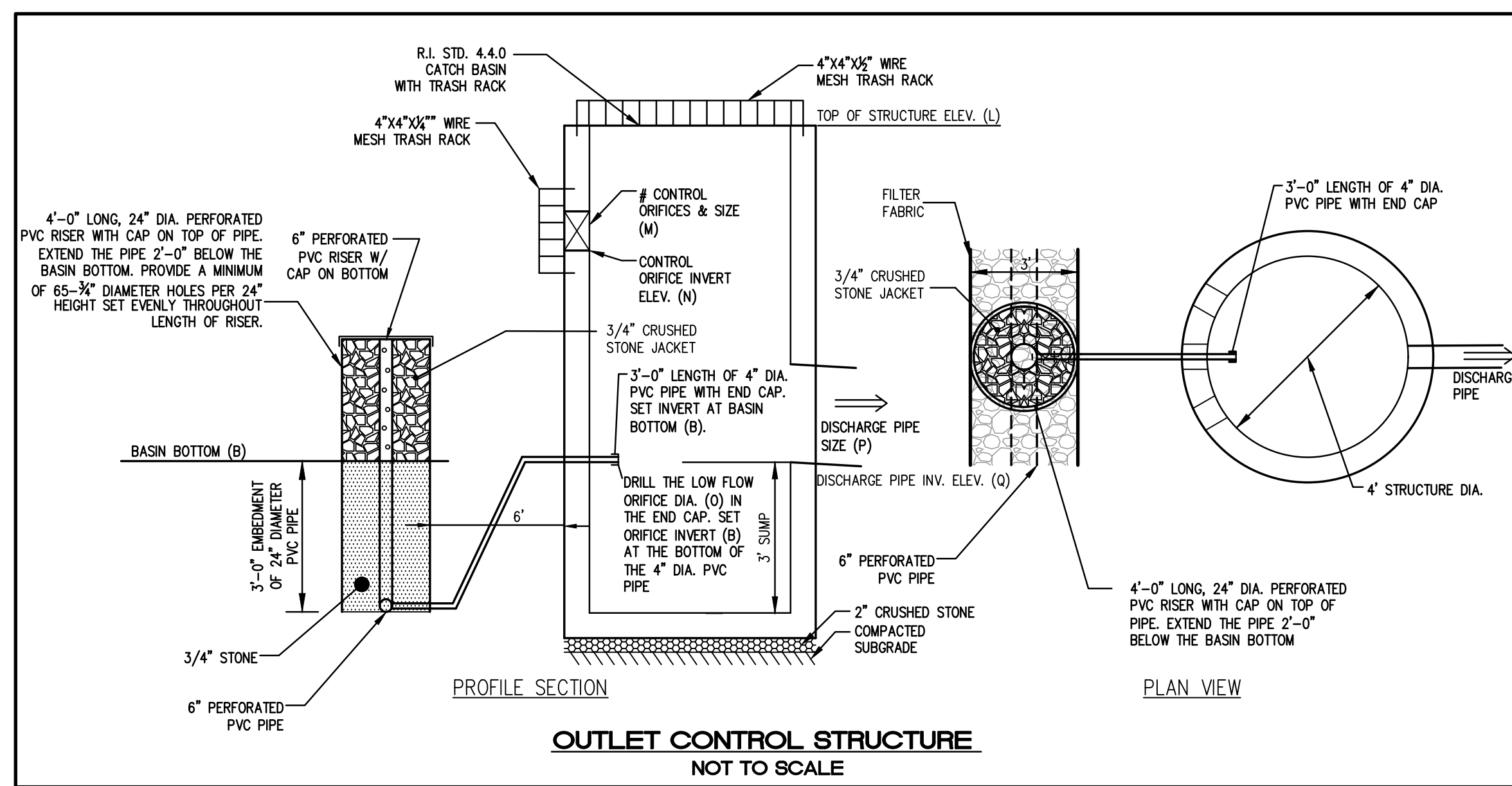
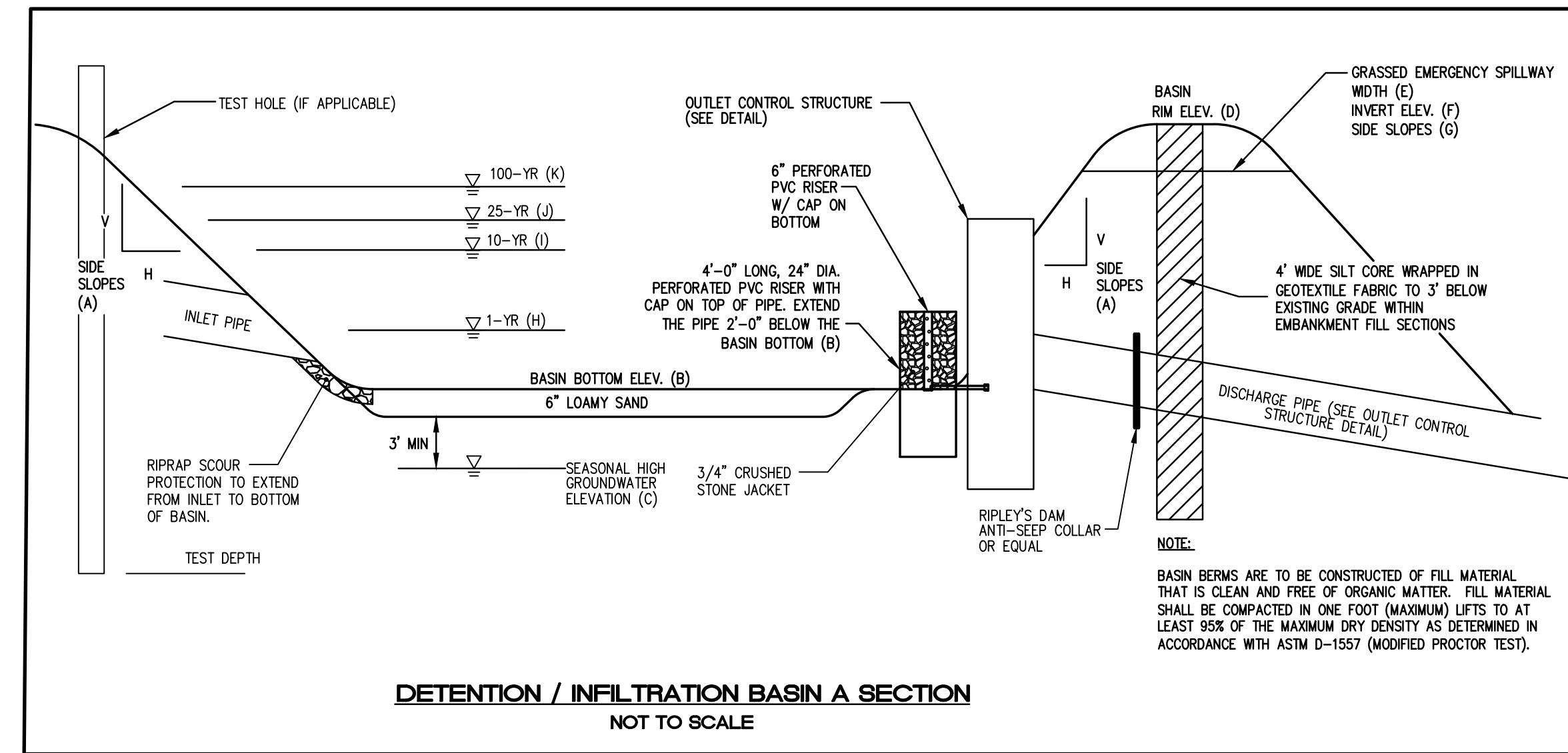
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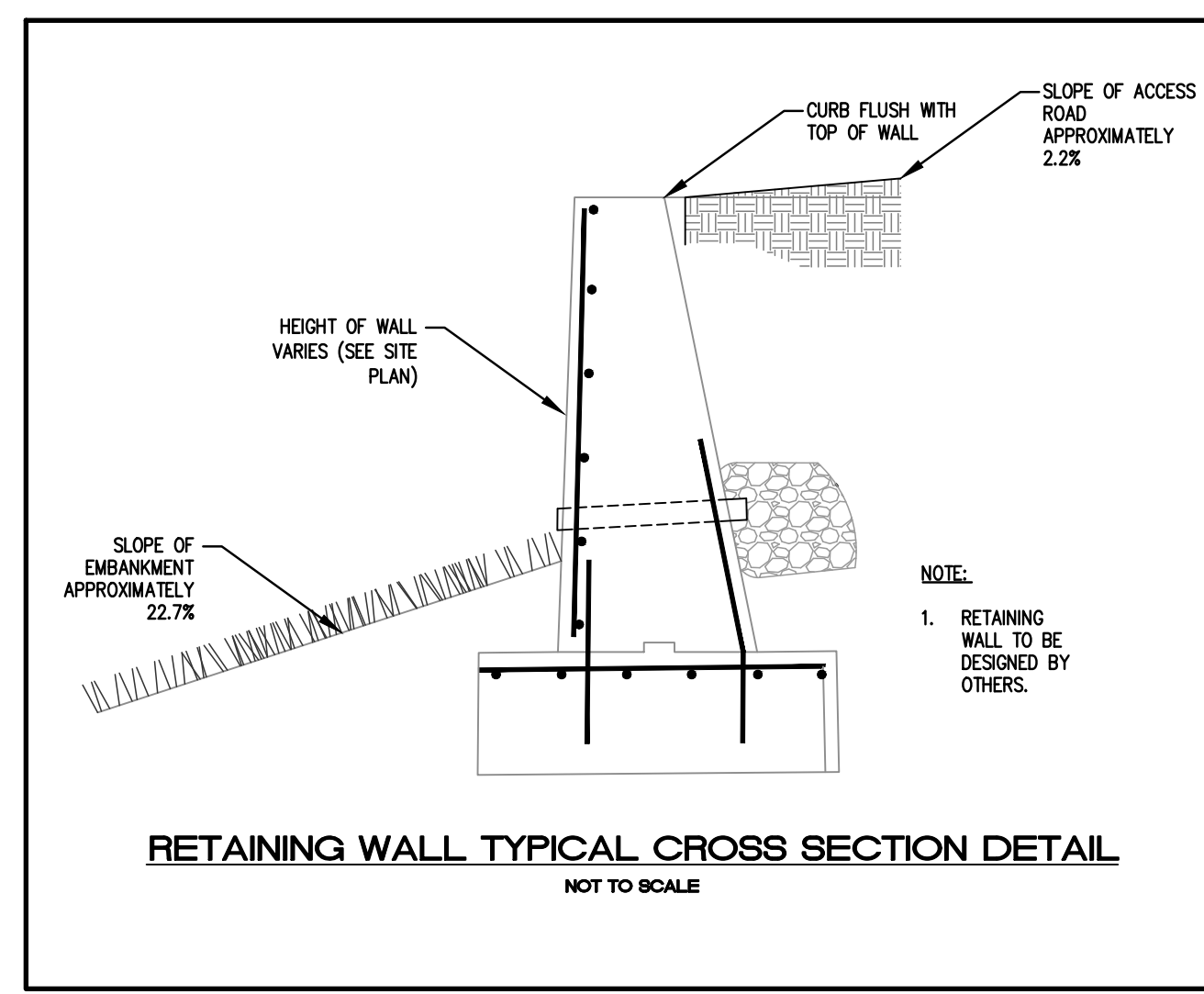
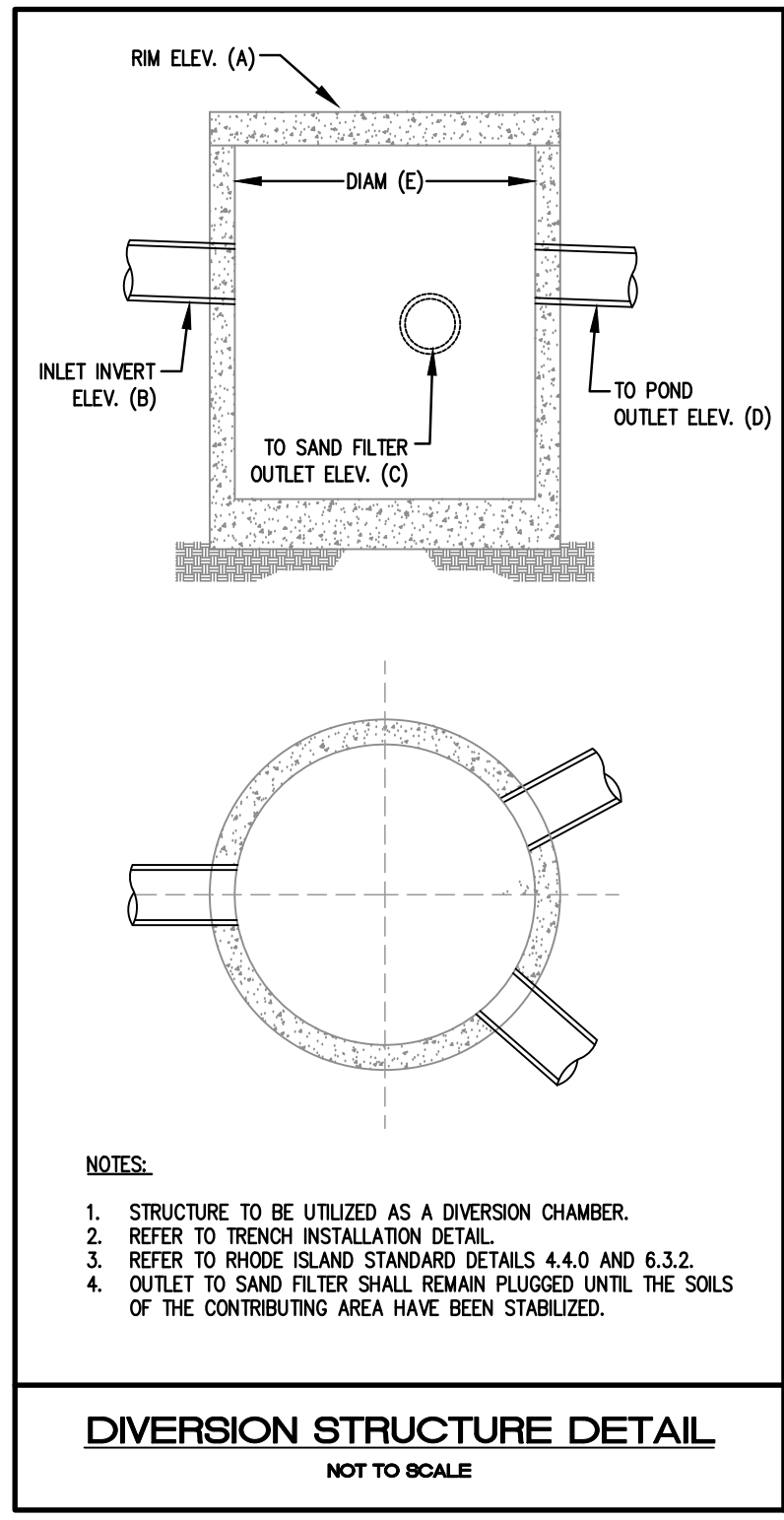


- NOTES:**
- SF-A1: CONTRACTOR TO REMOVE AND REPLACE THE MATERIAL WITHIN THE LIMITS OF THE SAND FILTER FROM ELEVATION 267.5 (BOTTOM OF SAND FILTER) TO ELEVATION 264.4. EXISTING MATERIAL TO BE REPLACED WITH LOAMY SAND, MEETING USDA SOIL TEXTURE SPECIFICATIONS AND HAVING A DESIGN INFILTRATION RATE OF 2.41 IN/HR.
 - SF-A2: CONTRACTOR TO REMOVE AND REPLACE THE MATERIAL WITHIN THE LIMITS OF THE SAND FILTER FROM ELEVATION 267.5 (BOTTOM OF SAND FILTER) TO ELEVATION 260.03. EXISTING MATERIAL TO BE REPLACED WITH SAND, MEETING USDA SOIL TEXTURE SPECIFICATIONS AND HAVING A DESIGN INFILTRATION RATE OF 8.27 IN/HR.

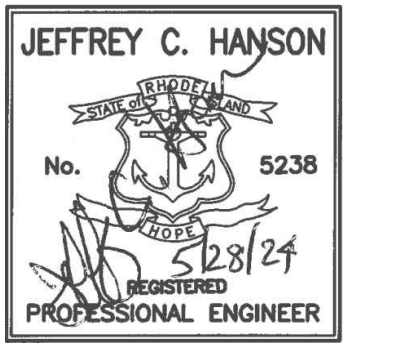
ID	FOREBAY BOTTOM ELEV (A)	FOREBAY PRETREATMENT VOLUME ELEV (B)	FOREBAY OVERFLOW SPILLWAY INV ELEV (C)	TOP OF TOPSOIL ELEV (D)	TOP OF FILTER BED ELEV (E)	FILTER BED DEPTH IN FT (F)	SHGWT ELEV (G)	FILTER OVERFLOW SPILLWAY ELEV (H)
SF-A1	268.00	271.10	271.50	270.50	269.50	2.00	258.90	271.25
SF-A2	268.00	271.30	271.50	270.50	269.50	2.00	260.03	271.25



ID	RIM ELEV (A)	INLET INVERT ELEV (B)	INVERT ELEV TO SAND FILTER (C)	INVERT ELEV TO POND (D)	DIAM OF STRUCTURE (E)
DS-1	273.00	269.17	268.70	269.67	4.0'
DS-2	273.00	268.63, 268.35	268.30	269.27	6.0'



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6	05/28/24	PRELIM. REINSTATEMENT



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DETAILS - 2

WILLOW LAKES

A.P. 16, LOT 3
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COVENTRY, RI

PREPARED FOR:
LRT NEW LONDON AVE
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SCALE AS NOTED
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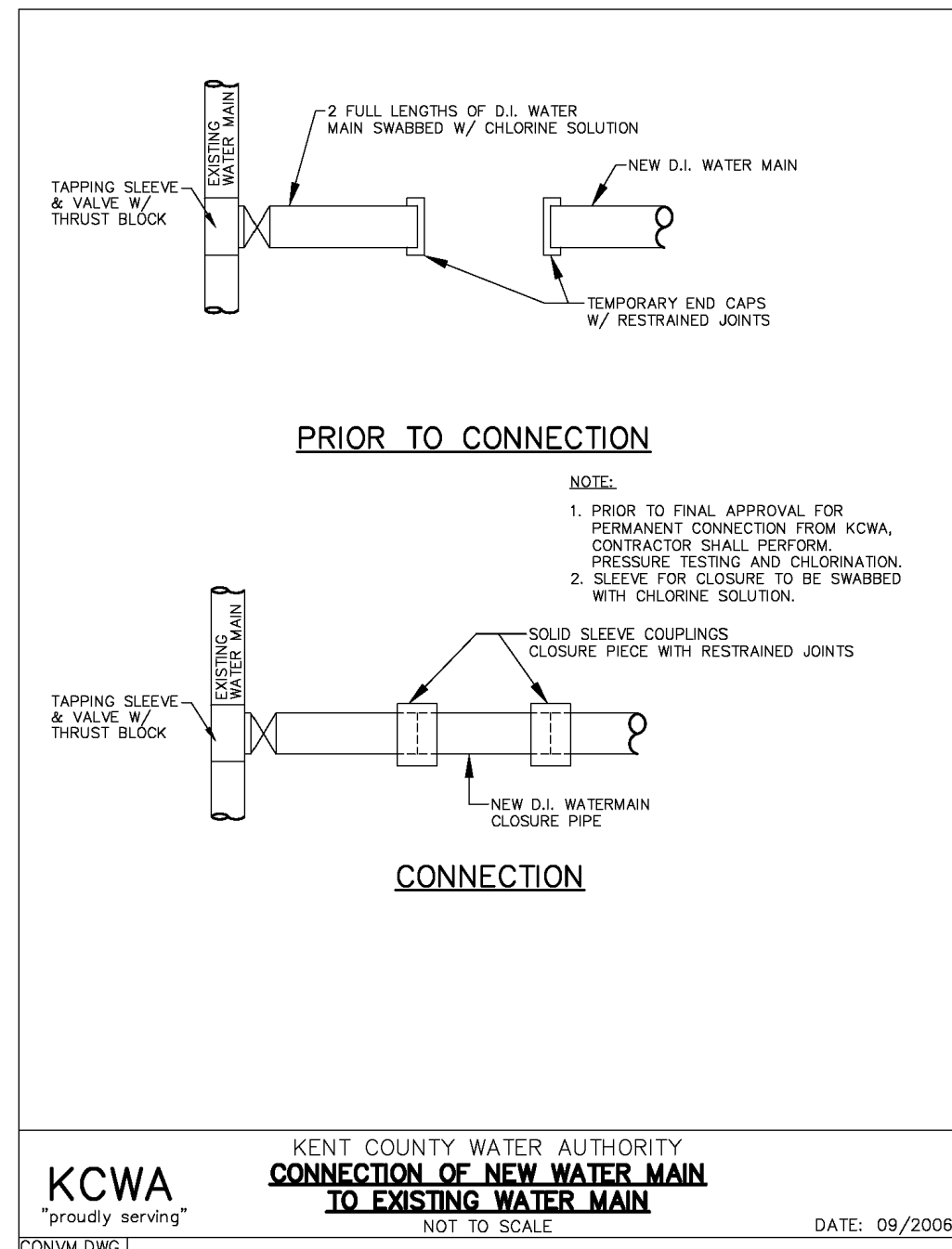
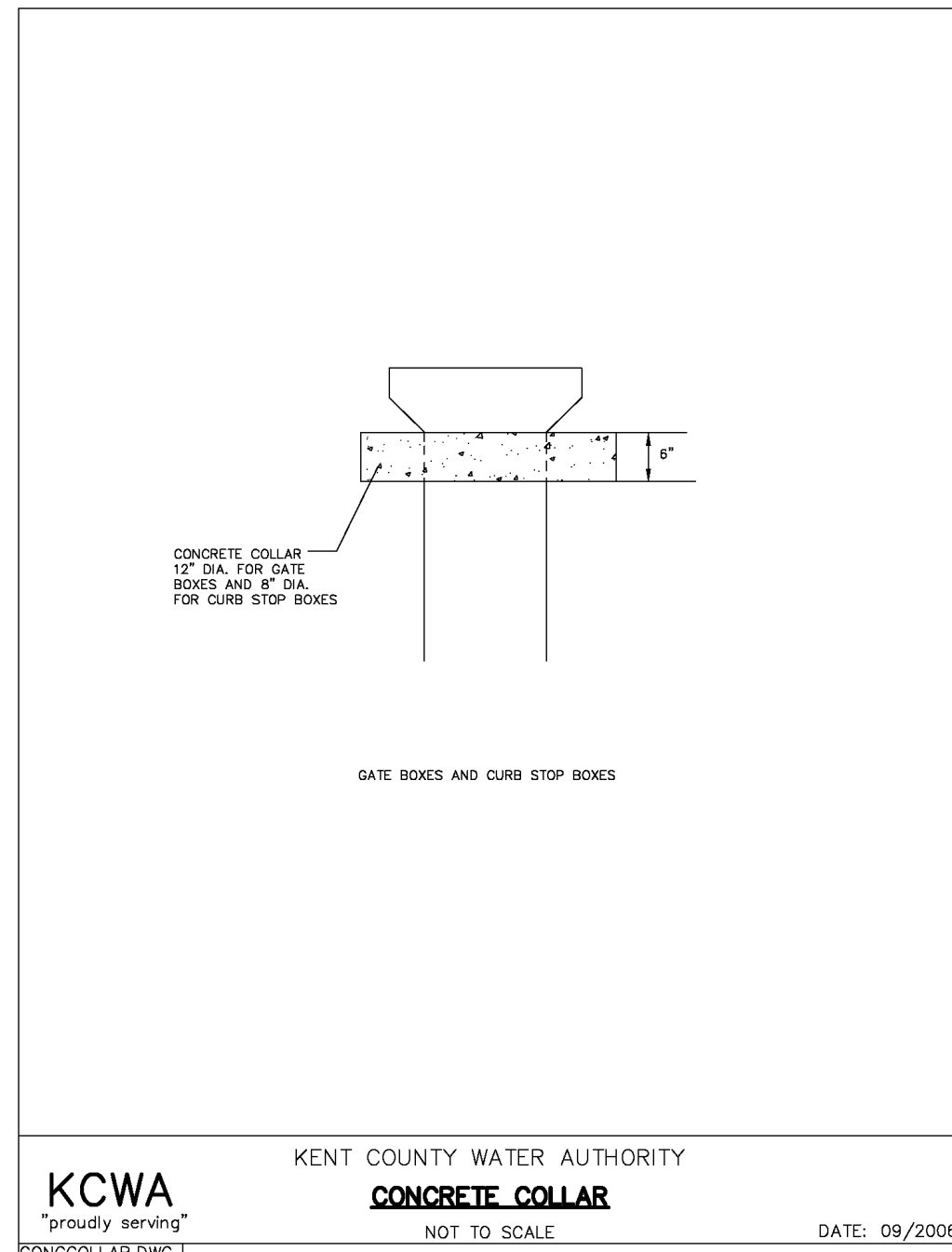
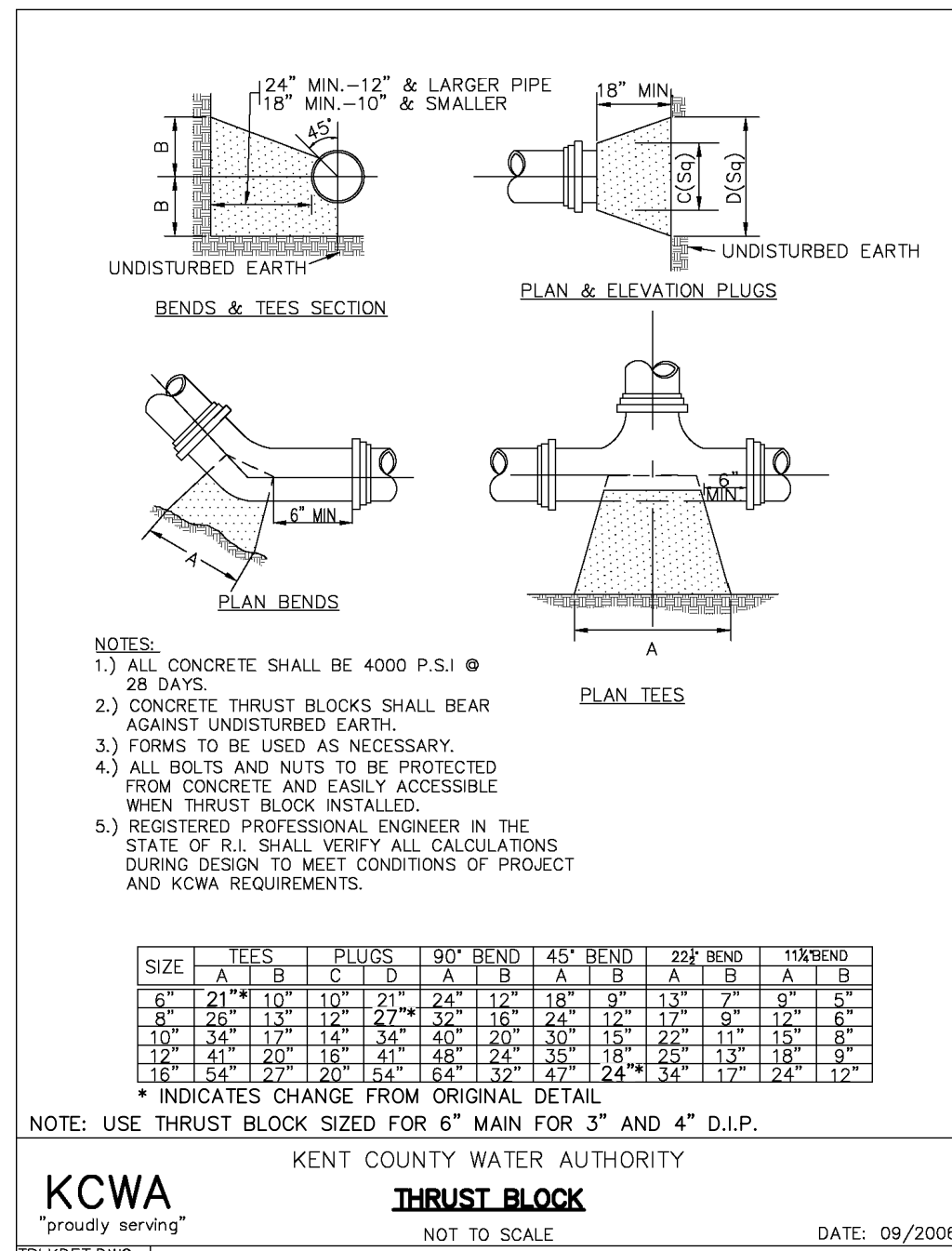
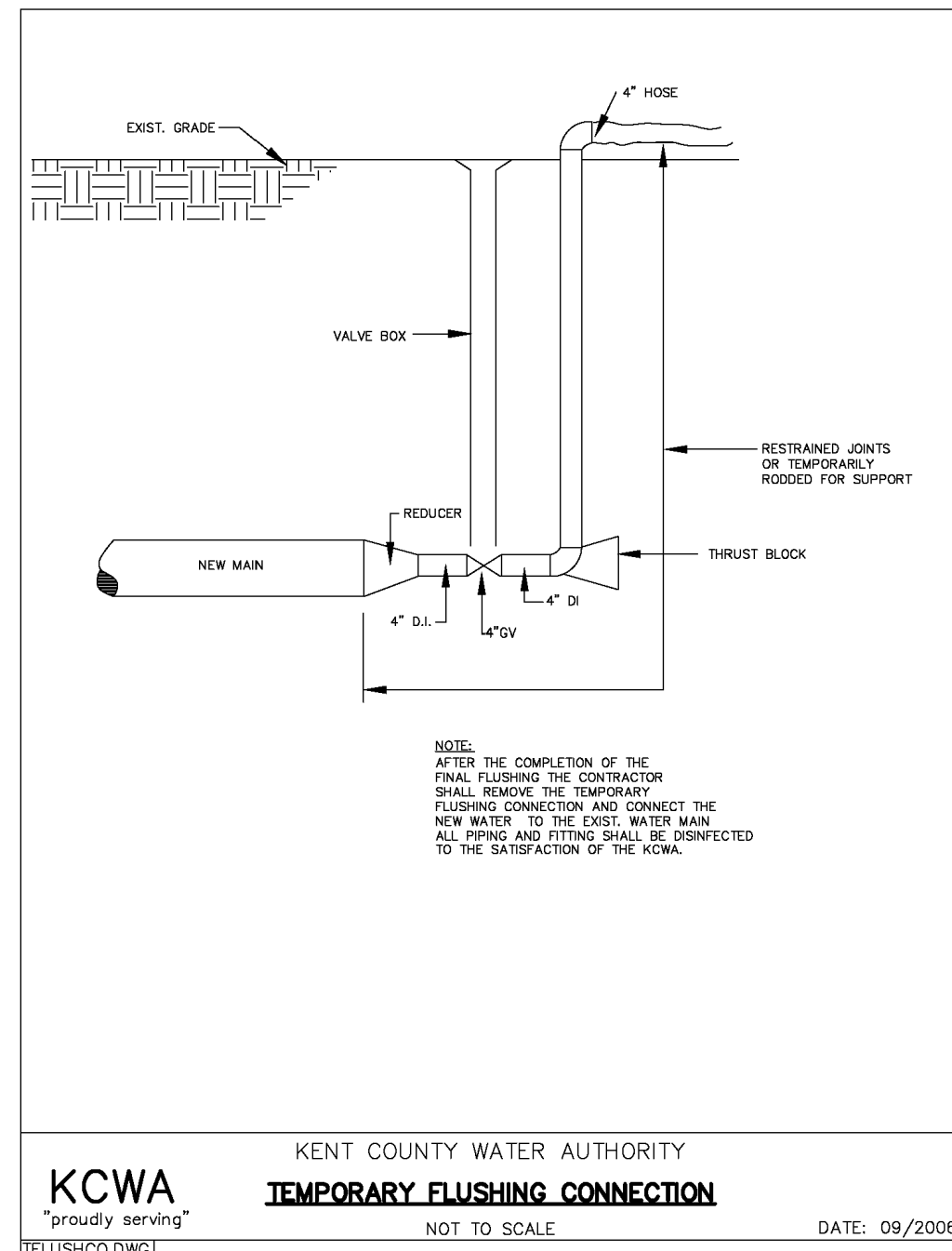
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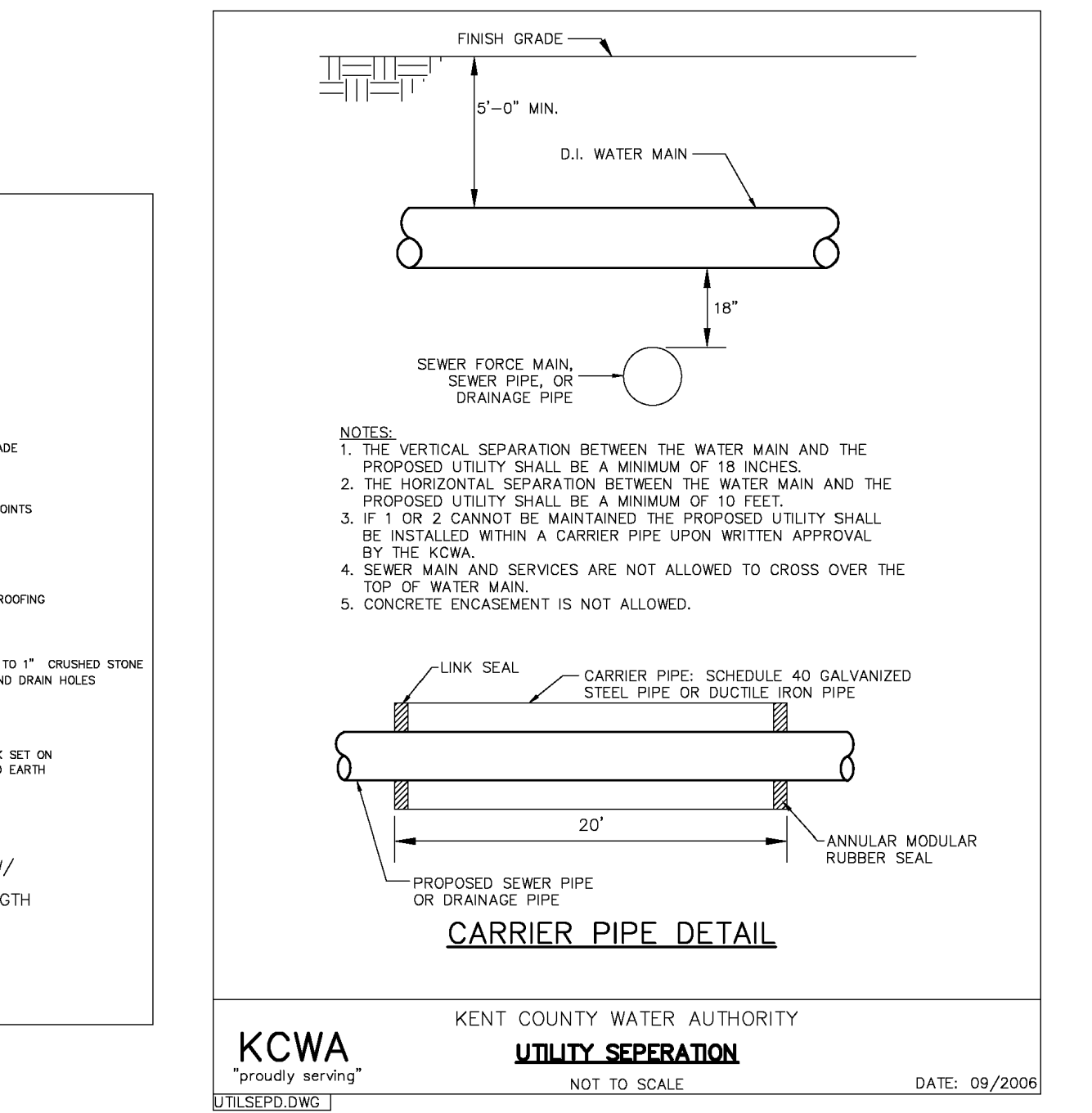
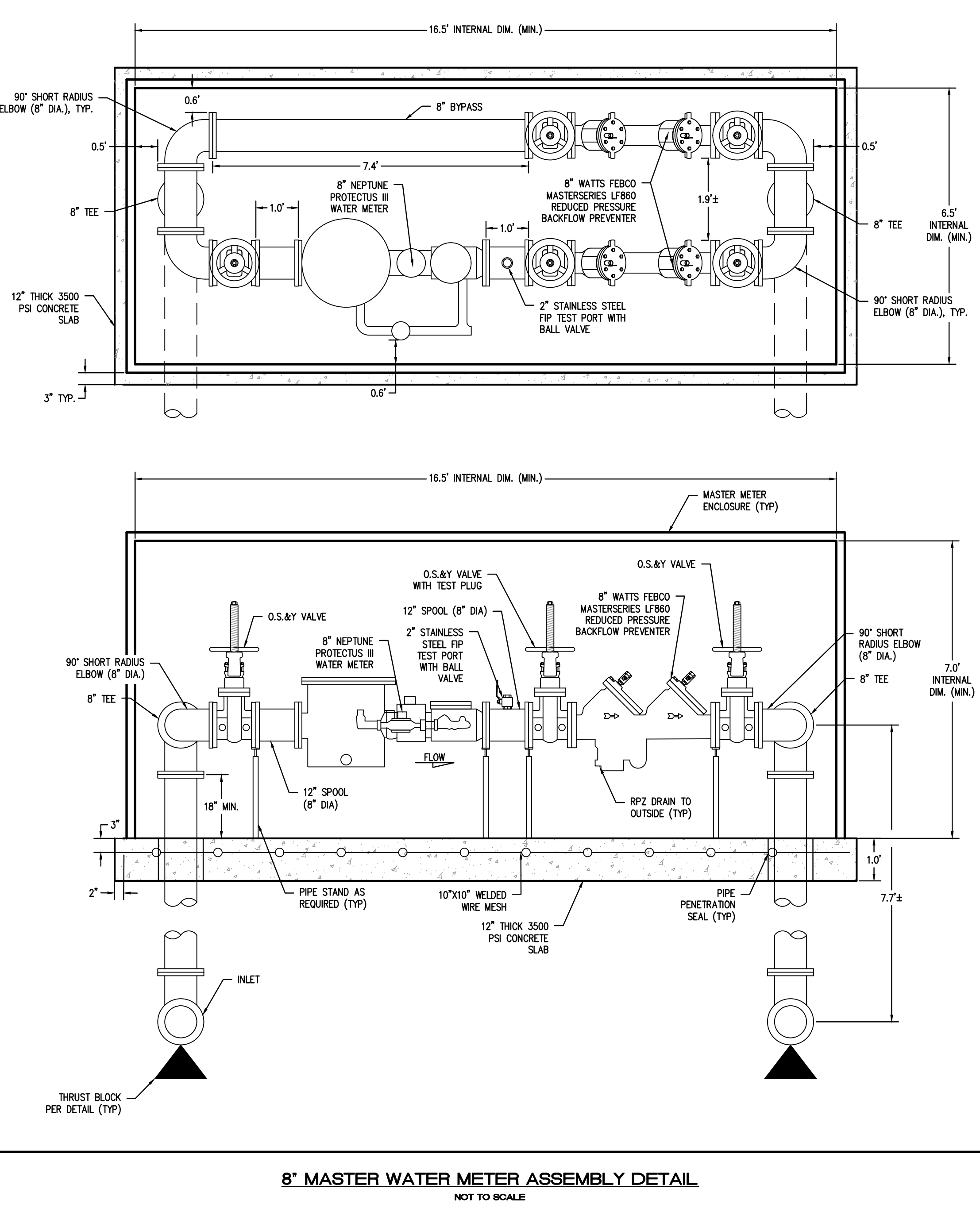
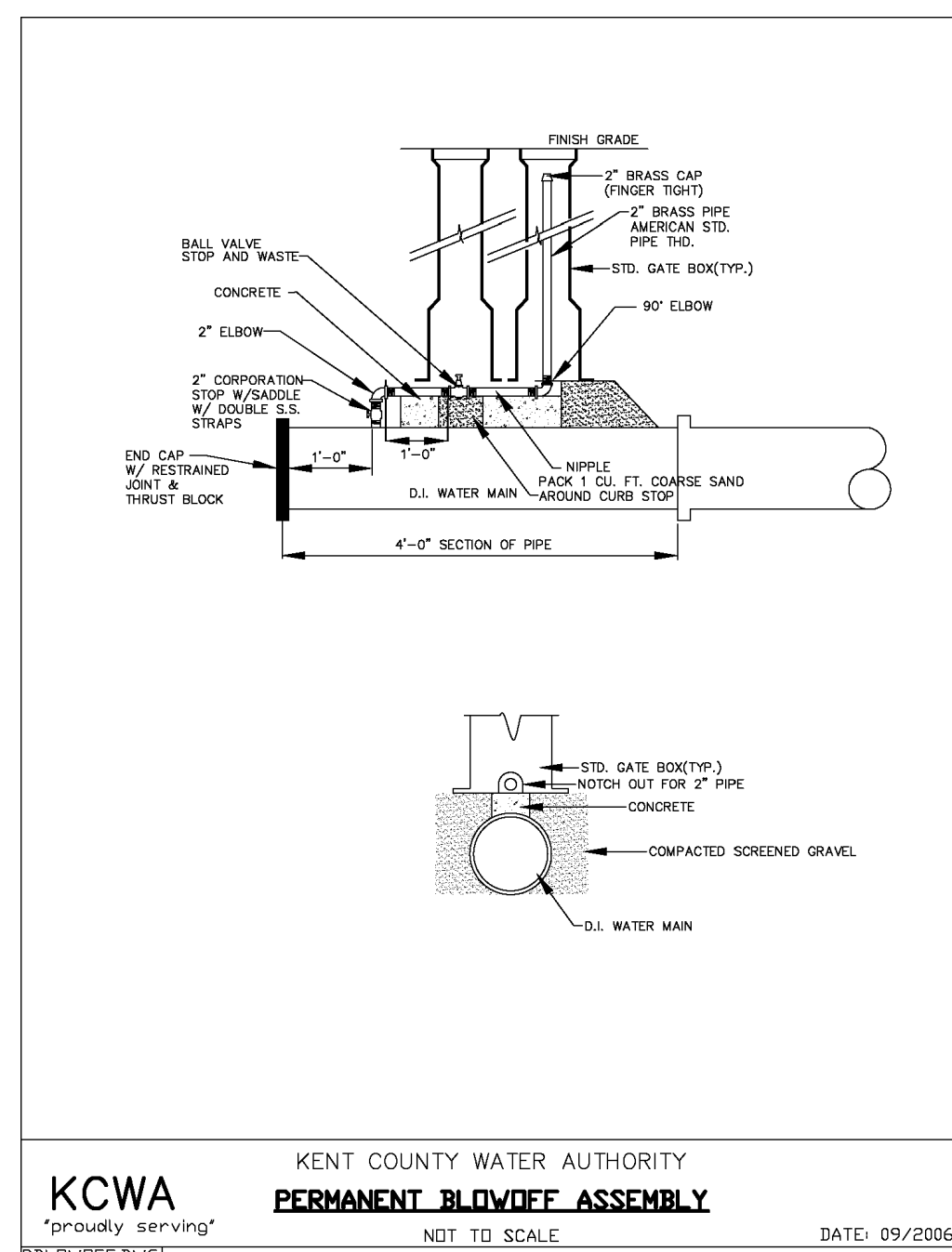
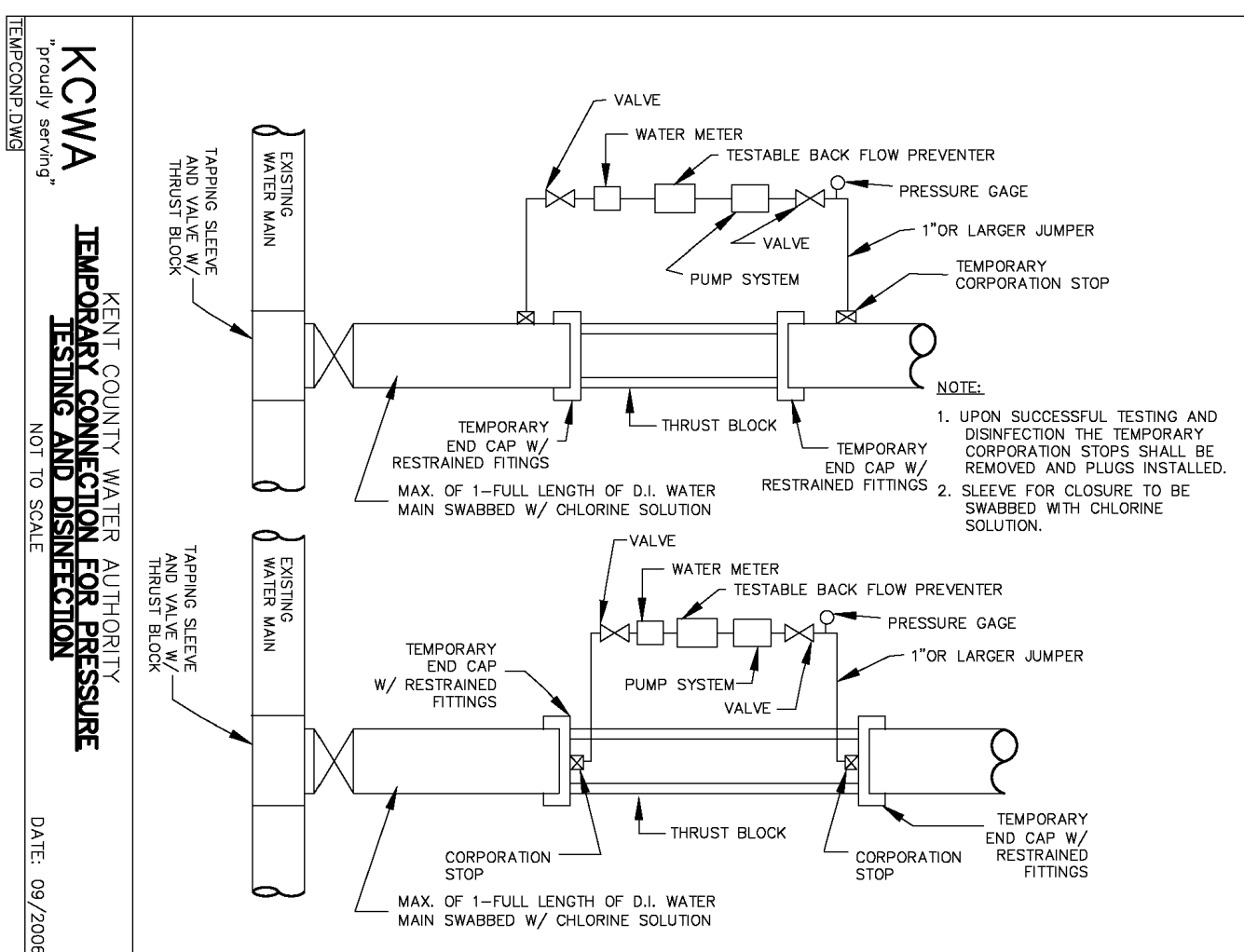
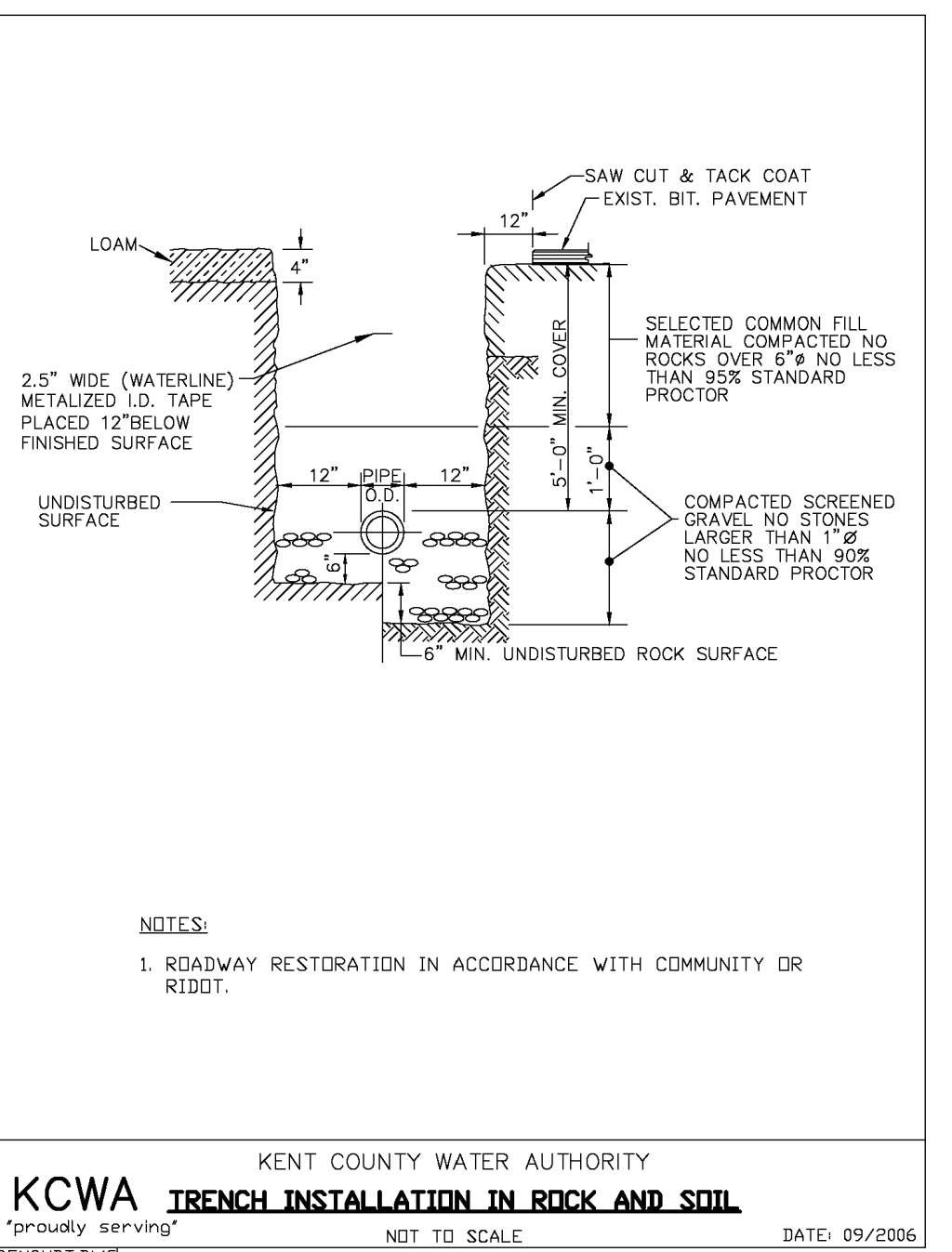
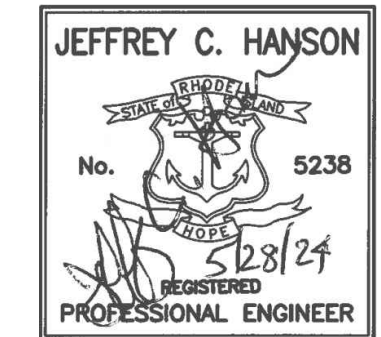
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- MASTER WATER METER ASSEMBLY NOTES:**
1. WATER METER AND COMPONENTS SHALL MEET THE STANDARDS OF THE KENT COUNTY WATER AUTHORITY.
 2. CONTRACTOR TO PROVIDE WATER METER ENCLOSURE.
 3. CONTRACTOR TO CONFIRM DIMENSIONS OF COMPONENTS PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO VERIFY SIZE OF METER ENCLOSURE AS REQUIRED.
 5. CONTRACTOR TO PROVIDE MAKE-UP SPOOL PIECES AS REQUIRED.
 6. CONTRACTOR TO PROVIDE ACCESS AND BLOWOUT PANELS AS REQUIRED.
 7. DESIGN FOR FROST AND FREEZING PROTECTION.
 8. CONTRACTOR TO PROVIDE LIGHTING AND TEMPERATURE ALARM.
 9. LOCATE IN AN ELEVATED AREA NOT PRONE TO FLOODING.
 10. PROVIDE LOCK AND CHAIN FOR VALVE BYPASS.
 11. CONTRACTOR TO SUPPLY THE KCWA AND CENTRAL COVENTRY FIRE DEPARTMENT WITH A KEY TO THE ENCLOSURE AND VALVE BYPASS LOCK.

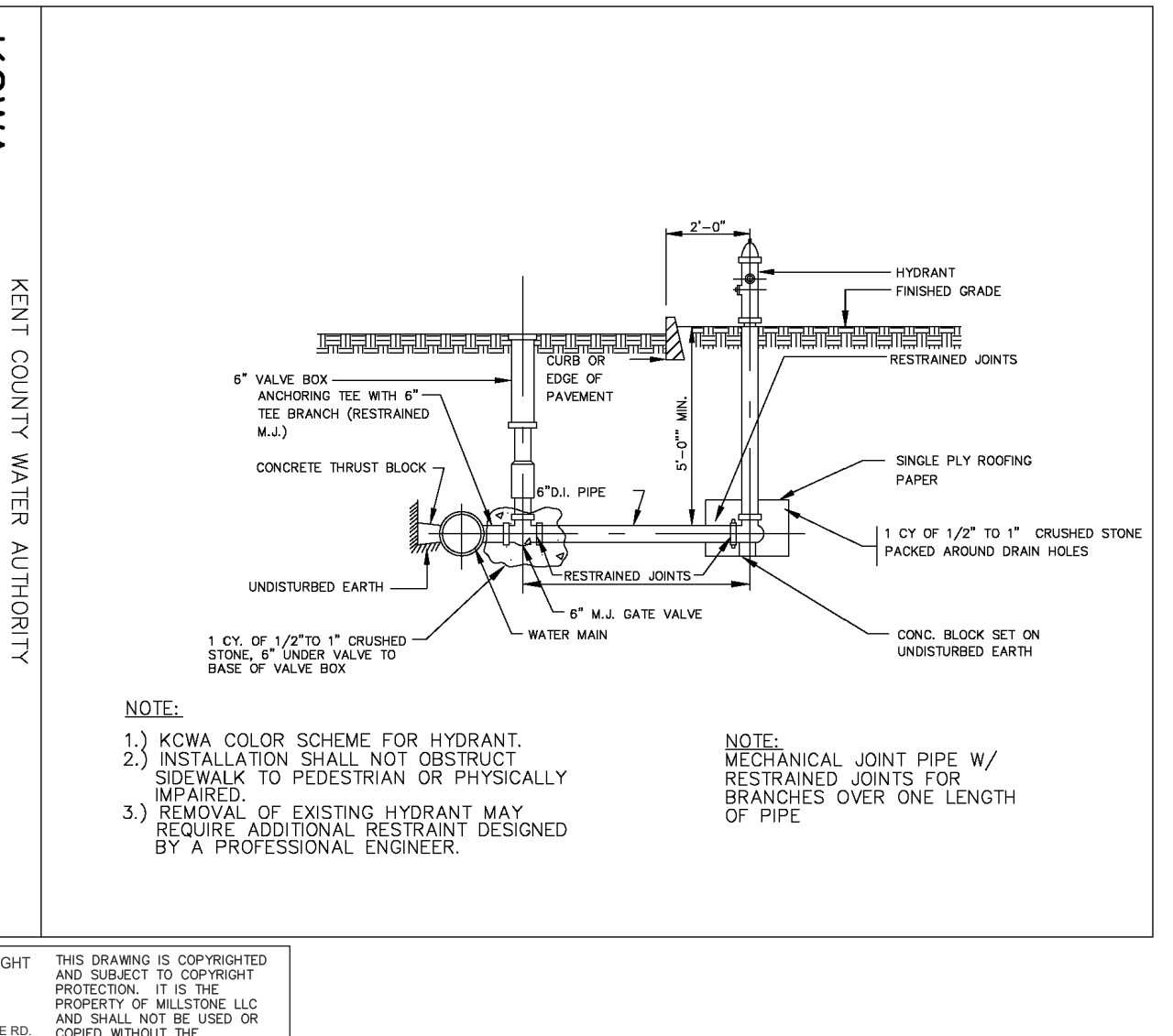
NO.	DATE	REVISION
1	1/25/22	KCWA COMMENTS
6	05/28/24	PRELIM. REINSTATEMENT



KENT COUNTY WATER AUTHORITY
RESTRAINED PIPE LENGTHS
 NOT TO SCALE DATE: 09/2006

FITTING	RESTRAINED LENGTH
12" PLUG	94"
12" TEE	44"
12" 90°	58"
12" 45°	44"
12" 22 1/2°	22"
12" 11 1/4°	22"
8" PLUG	58"
8" TEE	44"
8" 90°	44"
8" 45°	22"
8" 22 1/2°	22"
8" 11 1/4°	22"
6" X 6"	44"
6" PLUG	44"
6" TEE	22"
6" 90°	22"
6" 45°	22"
6" 22 1/2°	22"
6" 11 1/4°	22"

NOTE: 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 MECHANICAL RESTRAINTS WILL BE IN ACCORDANCE WITH THE ABOVE TABLE.



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DETAILS - 3

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PREPARED FOR:
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SCALE AS NOTED
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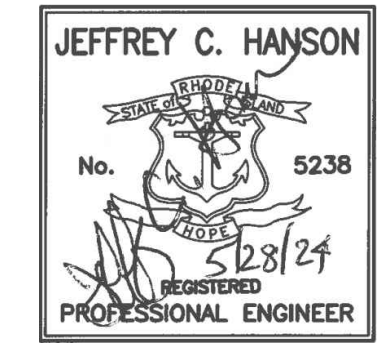
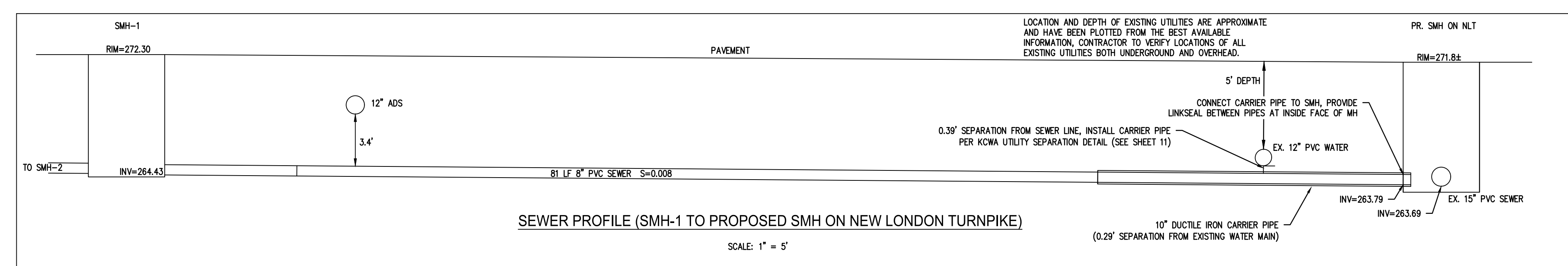
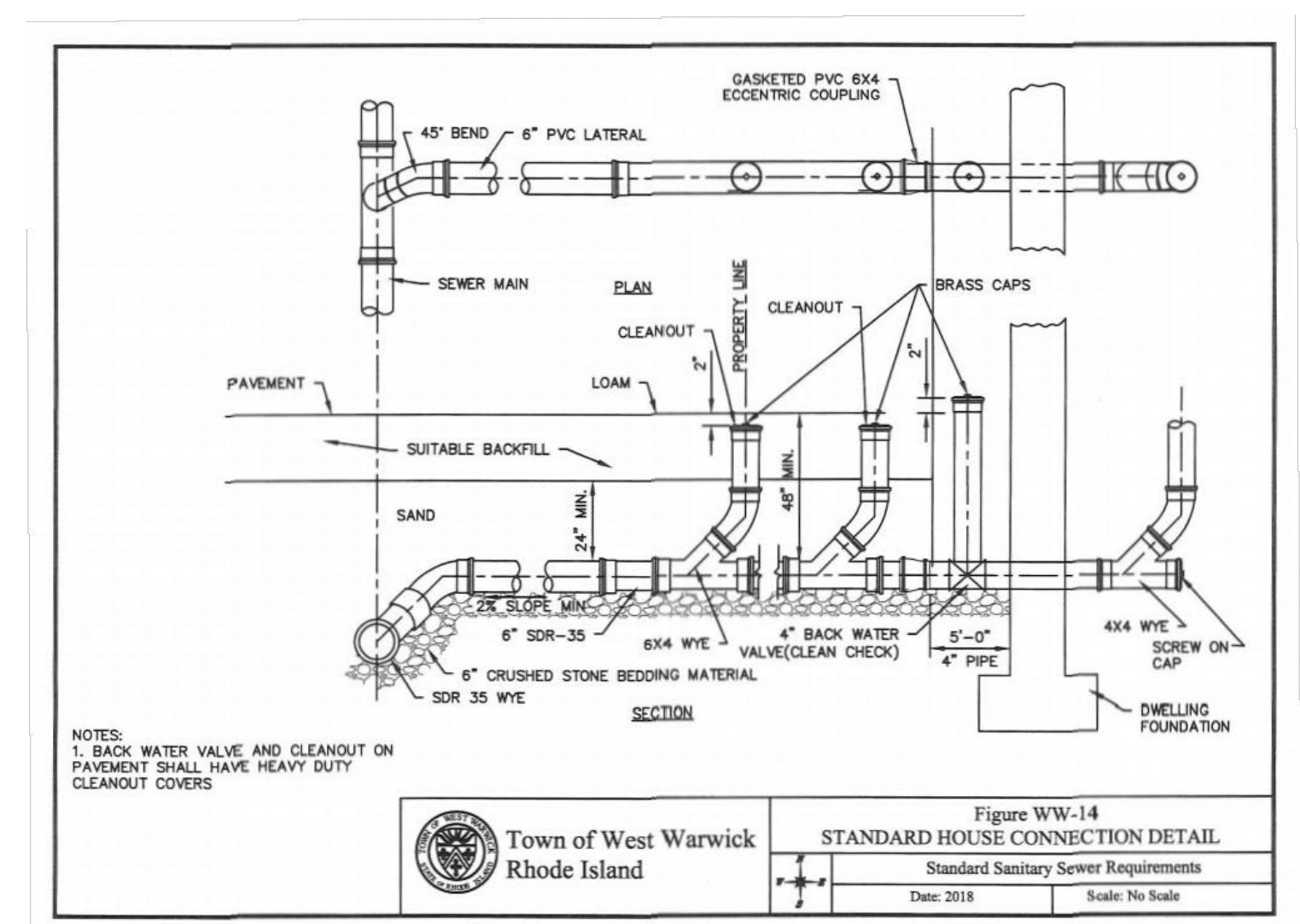
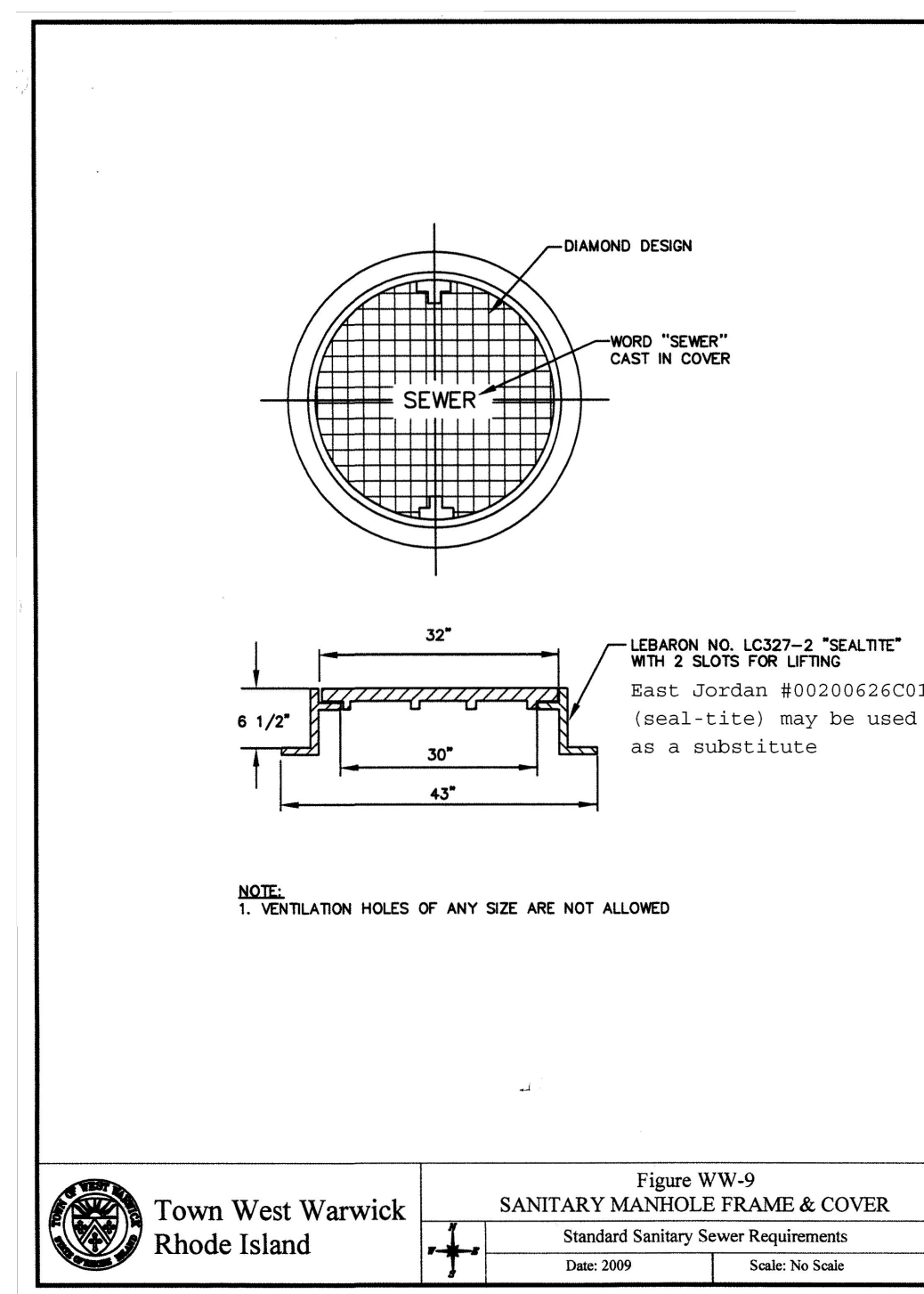
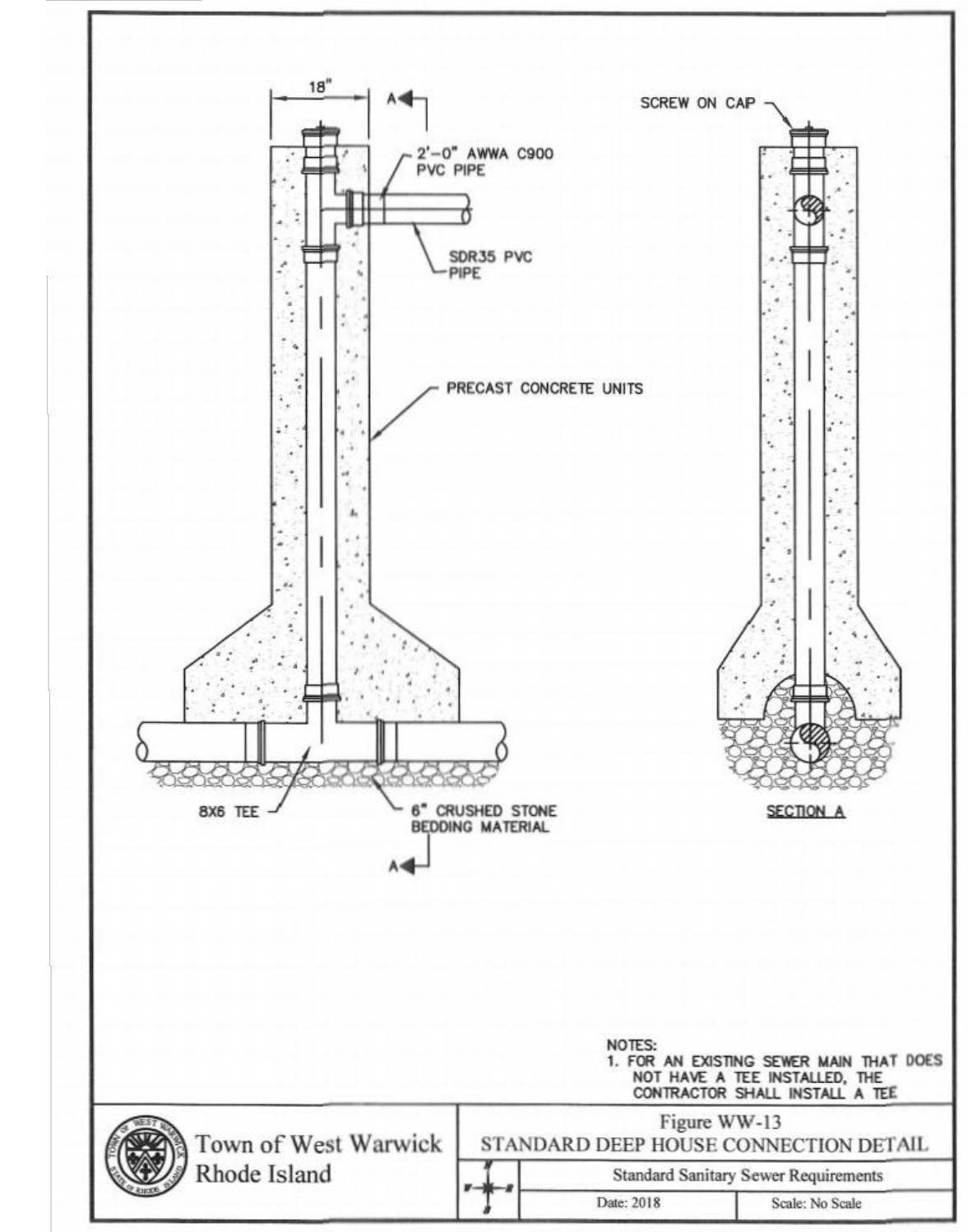
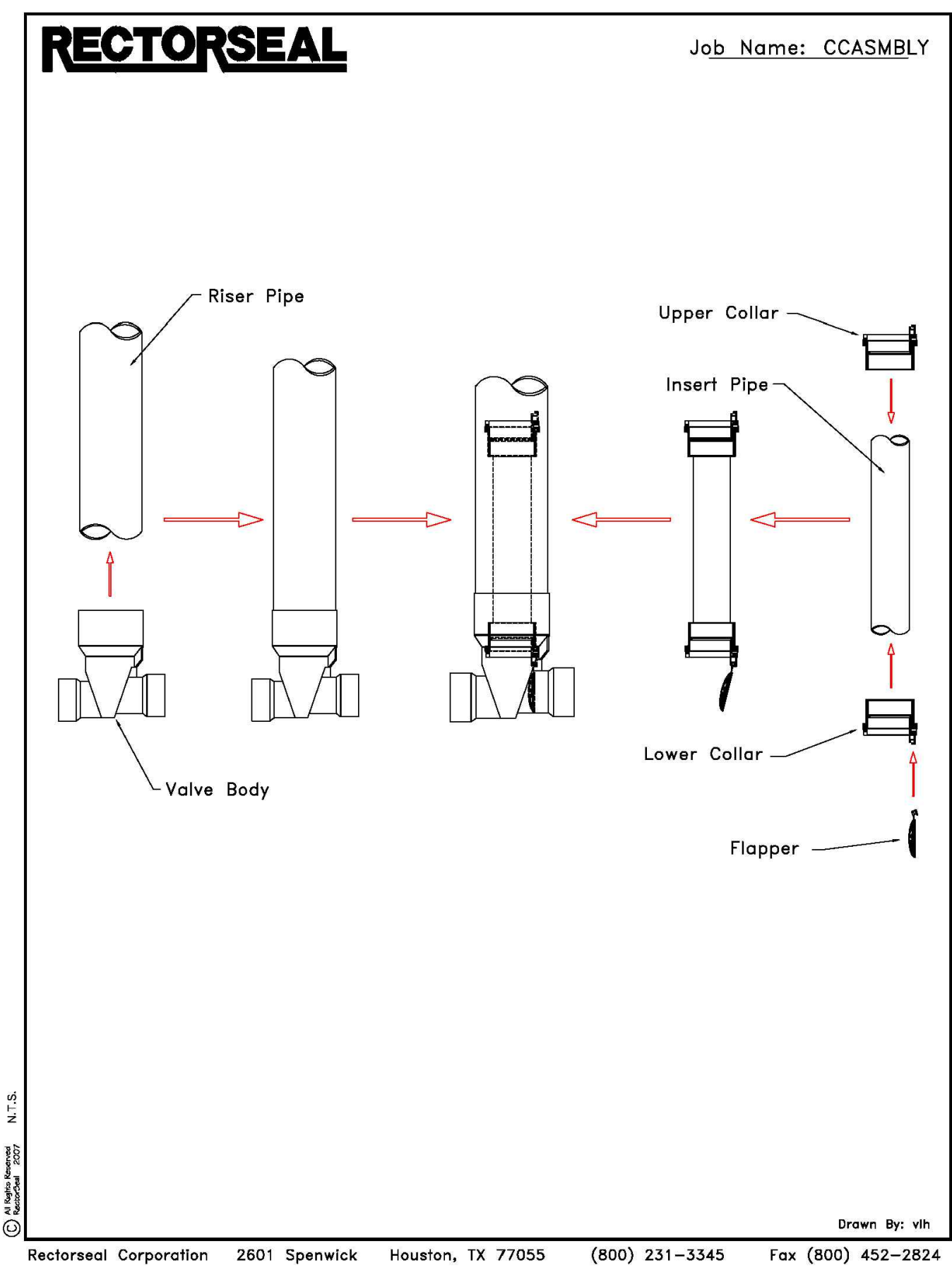
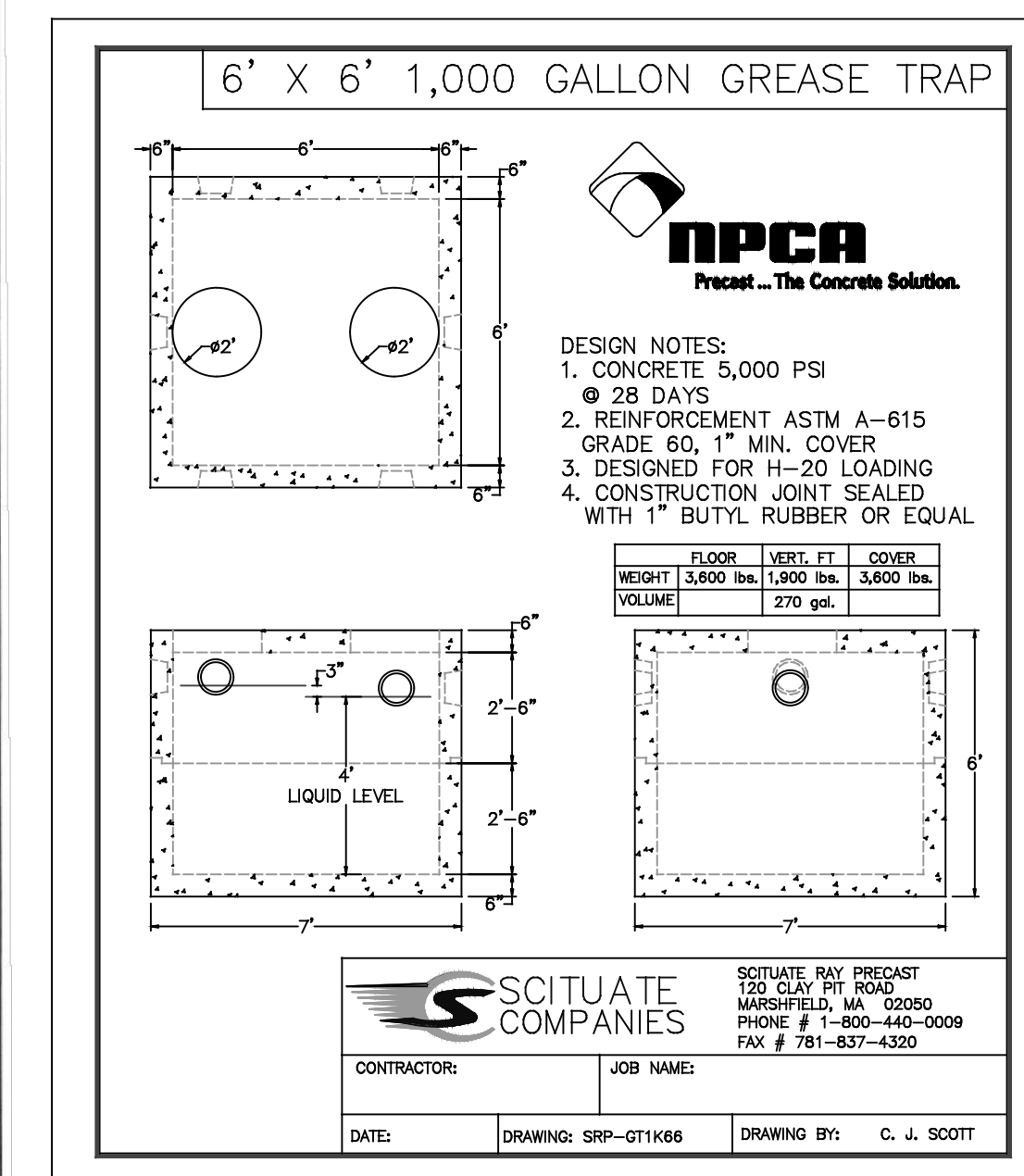
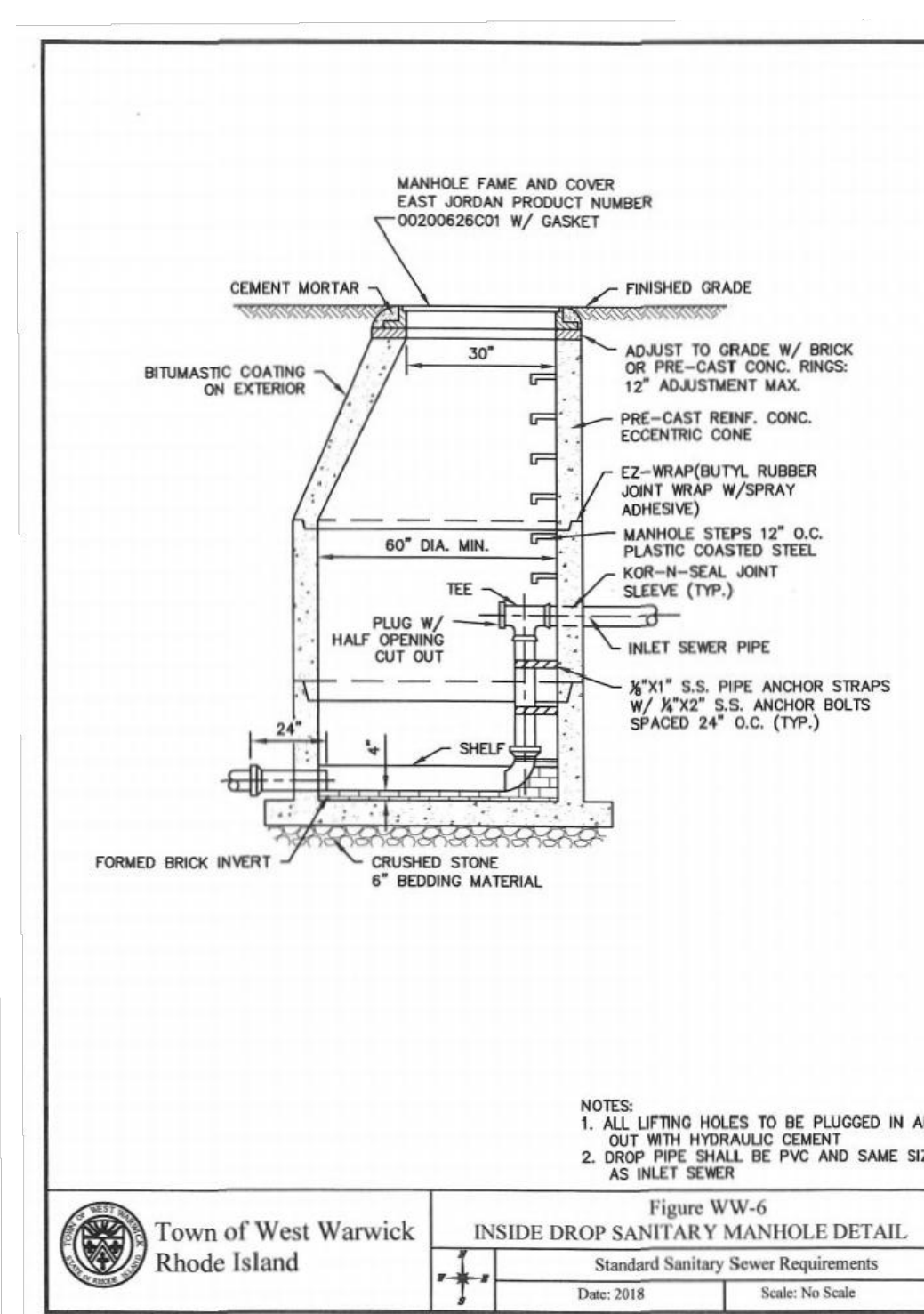
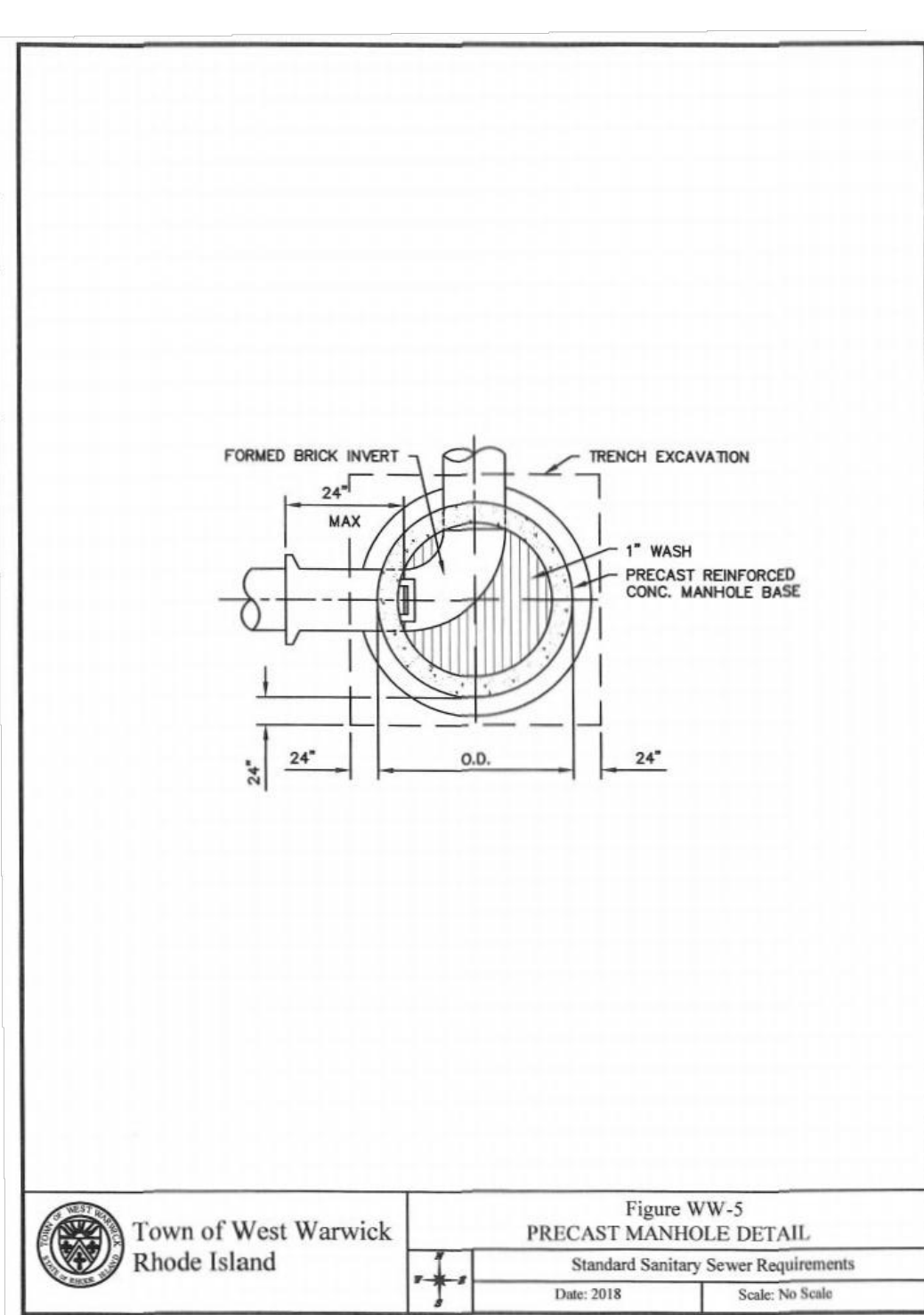
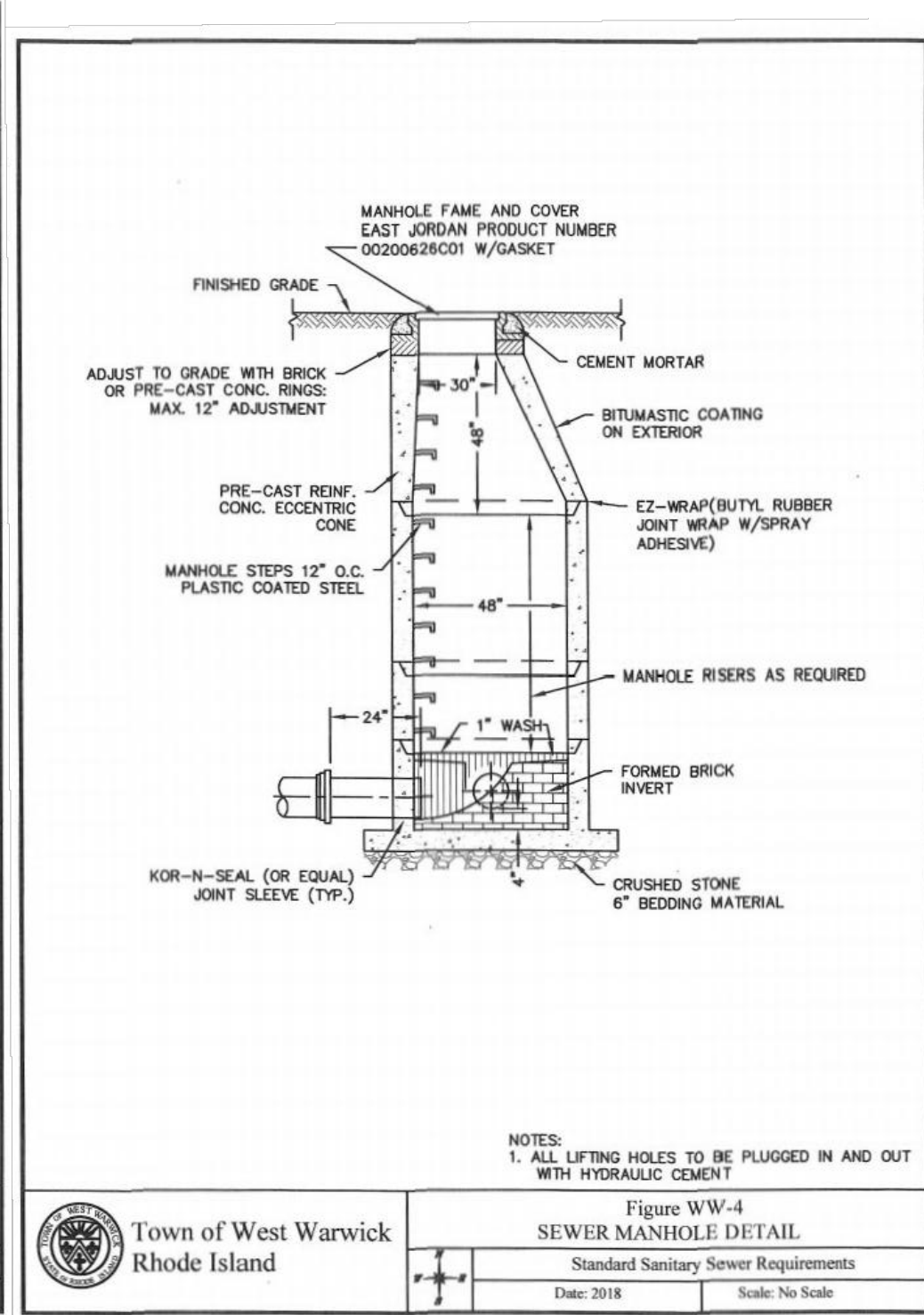
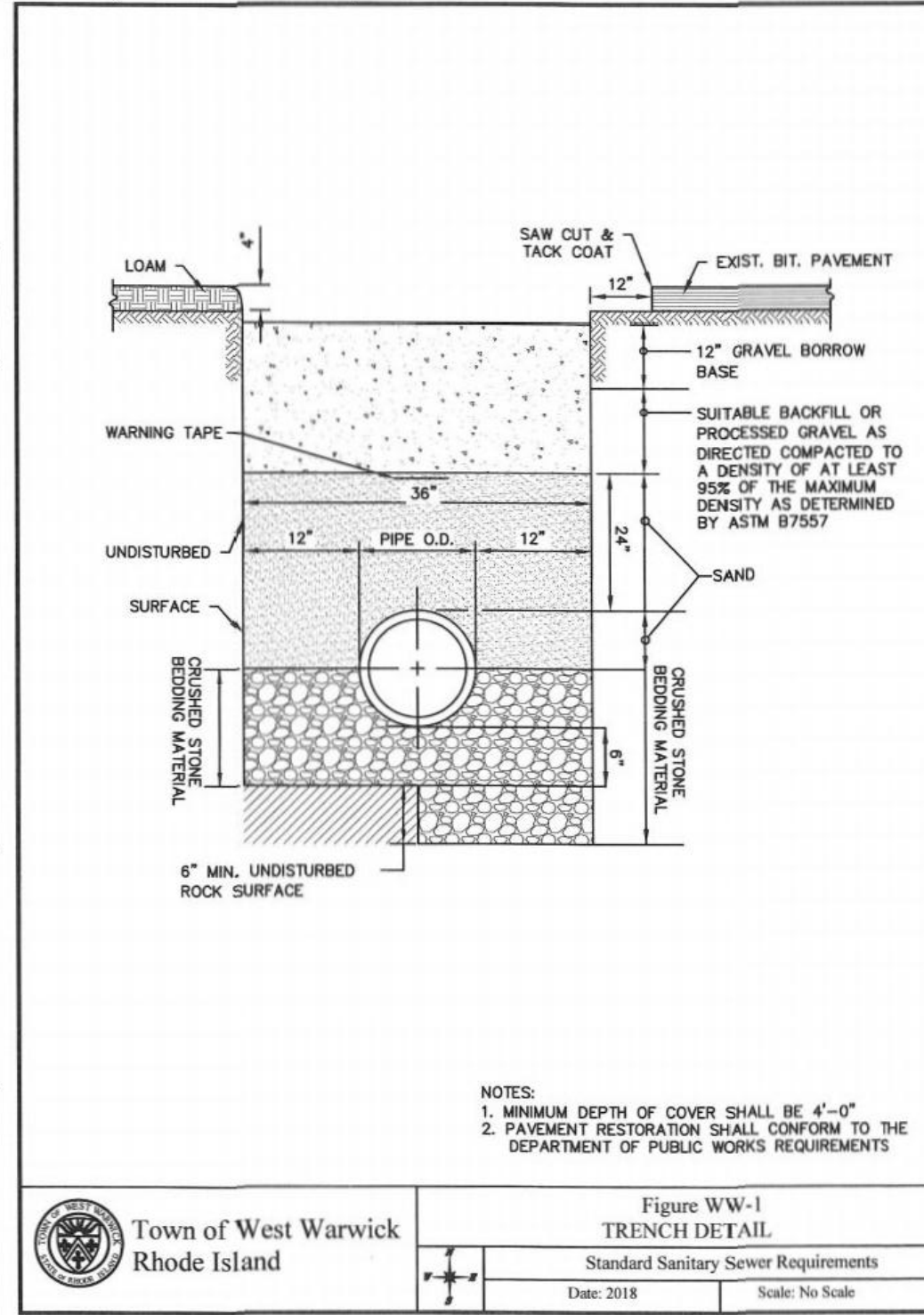
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