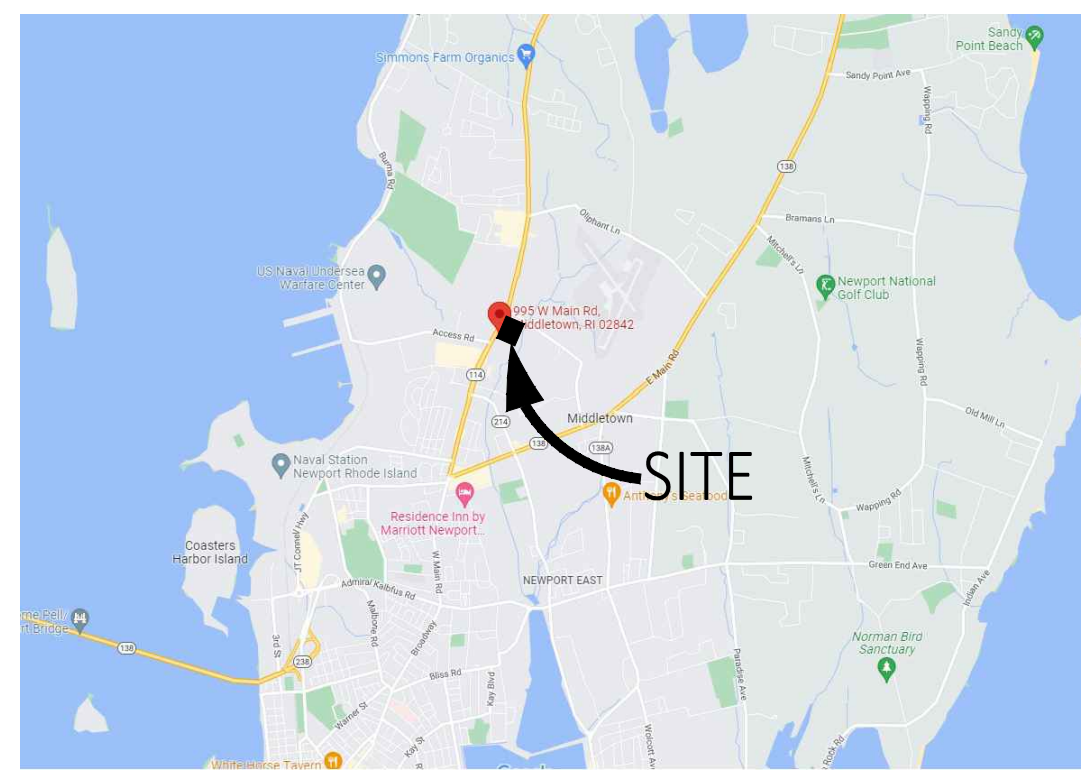




WASHVILLE - WAS04-078  
CARWASH

991-995 WEST MAIN ROAD  
MIDDLETOWN, RI 02842  
NEWPORT COUNTY



LOCATION MAP  
SCALE: NTS



ZONING - APN MAP  
SCALE: NTS

<b>PROJECT DESCRIPTION</b>	
NEW TUNNEL CAR WASH WITH ASSOCIATED PARKING AND AMENITIES.	
<b>SITE NOTES</b>	
1. THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A FIELD SURVEY COMPLETED BY GPI DATED: 03.03.2022.	
<b>PARCEL INFORMATION:</b>	
PARCEL NUMBER:	106-115 AND 106-116
OWNER:	WASHVILLE
ACRES:	DEVELOPMENT: LOT 115 = ±19,904 S.F. (±0.45 ACRES) LOT 116 = ±19,044 S.F. (±0.43 ACRES)

<b>BUILDING CODE REVIEW</b>	
ACCESSIBILITY CODE	ANSI/ICC A117.1 - 2009
BUILDING CODE	INTERNATIONAL BUILDING CODE 2015 (IBC 2015)
ELECTRICAL CODE	RHODE ISLAND ELECTRICAL CODE WITH NFPA 70, 2017
ENERGY CODE	INTERNATIONAL ENERGY CONSERVATION CODE 2015 (IECC 2015)
MECHANICAL CODE	INTERNATIONAL MECHANICAL CODE 2015 (IMC 2015)
PLUMBING CODE	INTERNATIONAL PLUMBING CODE (IPC 2015)
FIRE CODE	RHODE ISLAND FIRE CODE WITH NFPA 1, 2018
<b>ZONING ORDINANCE REVIEW</b>	
ZONING ORDINANCE	THE TOWN OF MIDDLETOWN RI, ZONING CODE. ADOPTED: 10.30.2006
ZONING MAP	TOWN OF MIDDLETOWN ZONING, PARCELS, & STREETS 2022. ADOPTED 01.05.2022
SITE ZONING	GBA: GENERAL BUSINESS (TRAFFIC SENSITIVE)
PERMITTED USE	YES, SECTION 602 CHART (BUSINESS SERVICES)

<b>BULK REGULATIONS</b>			
ITEM	REQUIRED	PROPOSED	ORDINANCE
<b>LOT REQUIREMENTS:</b>			
MIN. LOT AREA	12,000 S.F.	38,948 S.F.	SECTION 603 DISTRICT DIMENSIONAL REGULATIONS
MIN. LOT FRONTAGE	100'-0"	199.8'	
MAX. LOT COVERAGE	20%	11%	
<b>BUILDING REQUIREMENTS:</b>			
MAX. BUILDING HEIGHT	40'-0"		SECTION 605
MAX. FOOTPRINT	35,000 S.F.	4,289 S.F.	
<b>SETBACK REQUIREMENTS:</b>			
FRONT BUILDING SETBACK	10.0'	87.3'	SECTION 603 DISTRICT DIMENSIONAL REGULATIONS
SIDE BUILDING SETBACK	10.0'	NORTH: 50.1' SOUTH: 20.9'	
REAR BUILDING SETBACK	20.0'	67.3'	
<b>PARKING REQUIREMENTS:</b>			
MIN. STANDARD SPACE SIZE	9' x 18'	9' x 18'	SECTION 1304
PARKING CALCULATION	1 SPACE PER 1,000 G.S.F. 4,289 S.F./1,000=5 SPACES	4 STANDARD SPACES 15 VACUUM SPACES	
BARRIER-FREE SPACES	1 PER 25 SPACES	2	
			ANSI/ICC A117.1

<b>PROJECT DIRECTORY</b>			
DESCRIPTION	ADDRESS	CONTACT	
SITE	OWNER/DEVELOPER	GR MIDDLETOWN LAND LLC 164 MASON STREET, SUITE 201 GREENWICH, CT 06830	JAMES CANNING 860.829.1955
	PROJECT MANAGER	SEVAN MULTI-SITE SOLUTIONS 37704 HILLS TECH DRIVE FARMINGTON HILLS, MI 48331	BRADY CARLUCCI 603.236.6332
	SURVEYOR	GPI 325 WEST MAIN STREET BABYLON, NY 11702	631.587.5060
DESIGN CONTRACT	CIVIL ENGINEER	SEVAN ENGINEERING, PC 37704 HILLS TECH DRIVE FARMINGTON HILLS, MI 48331	TIMOTHY KRATZ, PE 219.841.6535
	ARCHITECT	SEVAN DESIGN SOLUTIONS, P.C. 3025 HIGHLAND PARKWAY SUITE #850 DOWNERS GROVE, IL 60515	--
UTILITIES	ELECTRIC	--	--
	GAS	--	--
	WATER	--	--
	SANITARY SEWER	--	--
	STORM SEWER	--	--
GOVERNMENT	PLANNING DEPARTMENT (TOWNSHIP)	TOWN OF MIDDLETOWN 350 EAST MAIN ROAD MIDDLETOWN, RI 02842	RONALD M. WOLANSKI, AICP DIRECTOR OF PLANNING AND ECONOMIC DEVELOPMENT 401.849.4027
	ENGINEER	ENGINEERING DEPARTMENT 9 BERKELEY AVE. MIDDLETOWN, RI 02842	WARREN HALL TOWN ENGINEER 401.846.2119
	BUILDING DEPARTMENT	TOWN OF MIDDLETOWN 350 EAST MAIN ROAD MIDDLETOWN, RI 02842	CHRIS COSTA BUILDING OFFICIAL 401.847.5769

<b>SHEET INDEX</b>		03.19.2022 SITE PLAN REVIEW	06.30.2022 REVISED PER RIDEM AND RIDOT	08.05.2022 REVISED PER RIDOT	08.25.2022 REVISED PER RIDEM	09.29.2022 REVISED PER TOWN REVIEW											
<b>GENERAL</b>																	
G0.01	COVER SHEET	●	●	●	●	●											
G0.02	GENERAL NOTES	●	●	●	●	●											
<b>SURVEY</b>																	
1 OF 1	EXISTING CONDITIONS PLAN	●	●	●	●	●											
<b>CIVIL</b>																	
C1.10	DEMOLITION SITE PLAN		●	●	●	●											
C1.11	SOIL EROSION AND SEDIMENTATION CONTROL PLAN	●	●	●	●	●											
C1.20	DIMENSION CONTROL SITE PLAN	●	●	●	●	●											
C1.30	GRADING PLAN	●	●	●	●	●											
C1.31	STORM WATER MANAGEMENT PLAN	●	●	●	●	●											
C1.32	SAND FILTER AND CDS DETAILS		●	●	●	●											
C1.40	UTILITY PLAN	●	●	●	●	●											
C5.00	EROSION CONTROL DETAILS	●	●	●	●	●											
C5.01	SITE DETAILS	●	●	●	●	●											
C5.02	SITE DETAILS	●	●	●	●	●											
C5.03	UTILITY DETAILS	●	●	●	●	●											
C6.10	MAINTENANCE OF TRAFFIC PLAN																

ALL WORK TO BE DONE WITHIN THE STATE HIGHWAY RIGHT OF WAY (ROW) SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018) WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION (AMENDED JUNE 2019) WITH ALL REVISIONS

ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, INCLUDING ALL REVISIONS

**sevan ENGINEERING**  
Regional Office:  
37704 Hills Tech Drive  
Farmington Hills, MI 48331  
734.367.4445 Telephone  
Corporate Office:  
3025 Highland Parkway, Suite 850  
Downers Grove, IL 60515  
Info@sevanengineering.com www.sevanengineering.com  
INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

<b>REVISIONS</b>		
NO.	DATE	DESCRIPTION
0	03.19.2022	SITE PLAN REVIEW
1	06.30.2022	REVISED PER RIDEM AND RIDOT
2	08.05.2022	REVISED PER RIDOT
3	08.25.2022	REVISED PER RIDEM
4	09.29.2022	REVISED PER TOWN REVIEW

**CONSULTANT**

**SEAL**  
TIMOTHY KRATZ  
No. 11620  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
10/03/2022

**CUSTOMER**  
Washville  
Your Hometown Car Wash

**PROJECT DESCRIPTION**  
WASHVILLE CARWASH

**PROJECT LOCATION**  
991-995 W MAIN RD  
MIDDLETOWN, RI 02842  
(NEWPORT COUNTY)

**SHEET TITLE**  
COVER SHEET

**SHEET MANAGEMENT**  
PROJECT NO.: MIDDLETOWN RI  
DATE: -  
CRITERIA: 110' TUNNEL  
PROJECT MANAGER: --  
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**SHEET NUMBER**  
G0.01

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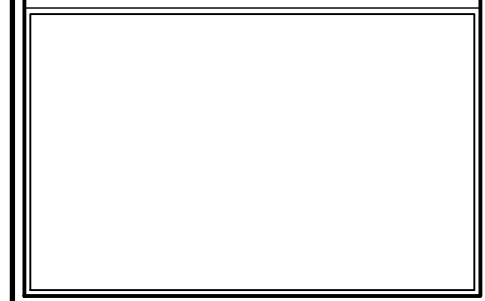
**DEMOLITION SITE PLAN KEYNOTES:**

- 1 SAWCUT, REMOVE AND DISPOSE OF SITE PAVEMENT AS REQUIRED TO ALLOW FOR NEW CONSTRUCTION.
- 2 SAWCUT, REMOVE AND DISPOSE OF CONCRETE WALK.
- 3 REMOVE AND DISPOSE OF PORTION OF CONCRETE CURB.
- 4 REMOVE TREE. REFER TO L1.20.
- 5 REMOVE AND DISPOSE OF EXISTING SANITARY PIPE.

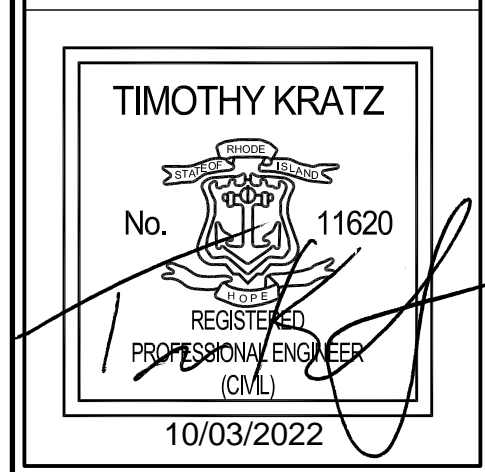
**REVISIONS**

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**CONSULTANT**



**SEAL**



**CUSTOMER**



**PROJECT DESCRIPTION**

**WASHVILLE CARWASH**

**PROJECT LOCATION**

**991-995 W MAIN RD**  
MIDDLETOWN, RI 02842  
(NEWPORT COUNTY)

**SHEET TITLE**

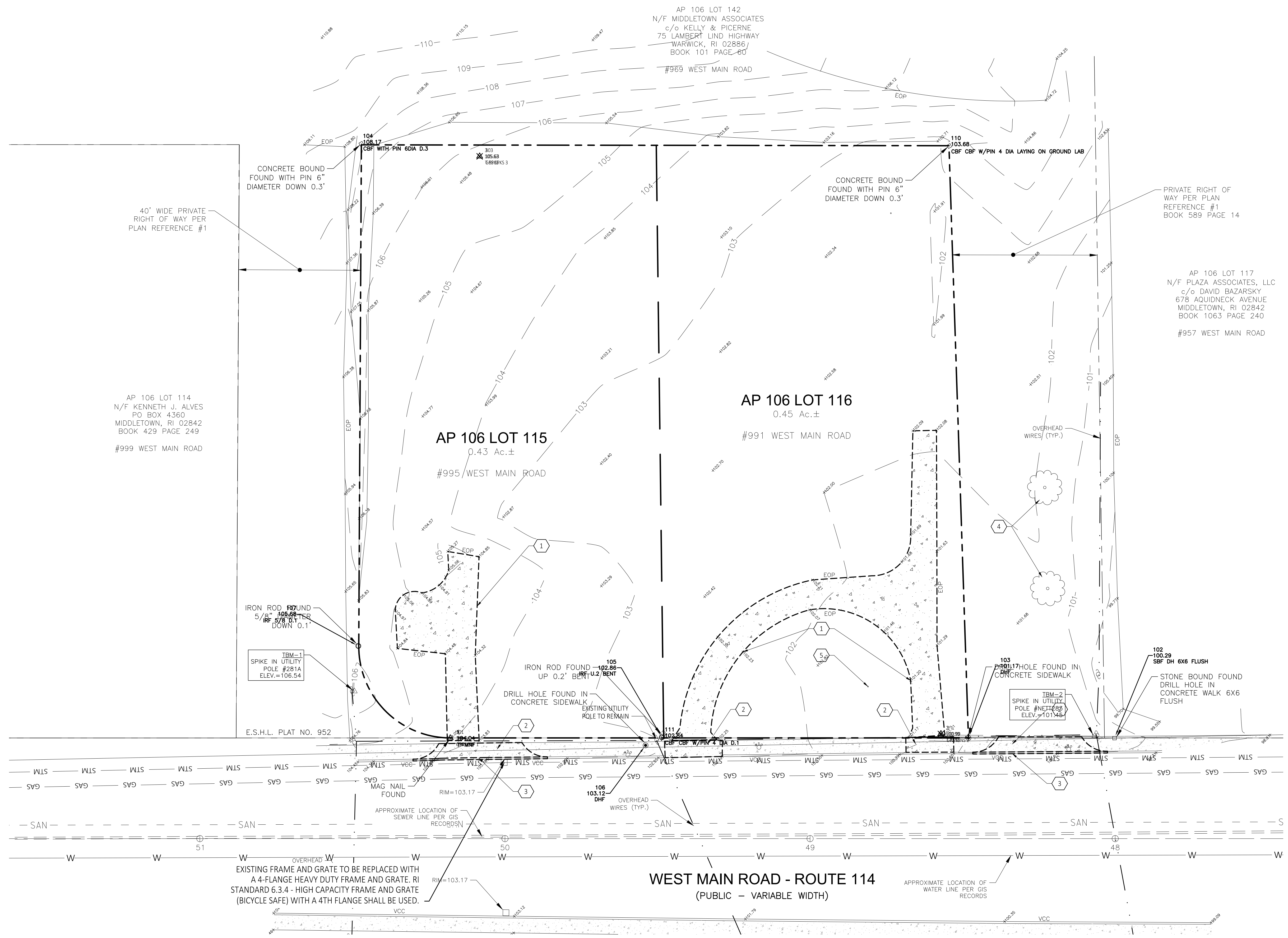
**DEMOLITION SITE PLAN**

**SHEET MANAGEMENT**

PROJECT NO.: MIDDLETOWN RI  
DATE: -  
CRITERIA: 110' TUNNEL  
PROJECT MANAGER: -  
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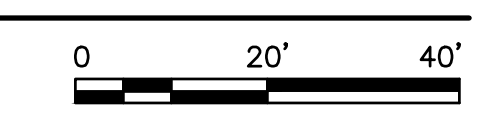
**SHEET NUMBER**

**C1.10**



FILE NAME: \\Share\Clients\Strology\Washville\Main-3\Middletown RI\DS\ComDes\C1.10.dwg LAST SAVED BY: Patricia, Oviedo SAVED DATE: 9/29/2022 11:30 AM PLOTTED: 9/29/2022 1:41 PM

**DEMOLITION SITE PLAN**  
SCALE: 1" = 20'-0"



**SOIL EROSION AND SEDIMENT CONTROL AND MAINTENANCE NOTES:**

- A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT, OR SIMILAR PERMIT FROM THE JURISDICTIONAL AUTHORITY, MUST BE SECURED AND POSTED ON-SITE PRIOR TO ANY EARTH CHANGES.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE JURISDICTIONAL AUTHORITY.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- THE GENERAL CONTRACTOR SHALL STAGE ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) WORK AS DIRECTED IN THE DRAWINGS AND PROJECT MANUAL, AND AS OTHERWISE NECESSARY OR APPROPRIATE TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SESC DEVICES.
- THE GENERAL CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SESC MEASURES AS SHOWN IN THE DRAWINGS AND PROJECT MANUAL BEFORE, AND AT ALL TIMES DURING, THE CONSTRUCTION OF THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SESC MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR AS DIRECTED BY THE JURISDICTIONAL AUTHORITY.
- IF ANY OF THE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE JURISDICTIONAL AUTHORITY HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF THE GENERAL CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL INSPECT THE SESC DEVICES ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. ANY REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
- INSTALL SILT FENCE AS INDICATED IN THE DRAWINGS AND PROJECT MANUAL, PER ATTACHED DETAILS, AND AT ADDITIONAL AFFECTED AREAS AS NECESSARY.
  - SILT FENCE SHALL BE INSPECTED ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
  - BUILD-UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATED TO 1/3 OF THE HEIGHT OF THE SILT FENCE.
  - IF SILT FENCE DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY.
- INSTALL INLET FILTERS ON ALL PAVEMENT CATCH BASINS PER DETAIL.
  - INLET FILTERS SHALL BE INSPECTED ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
  - BUILD-UP OF SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.
  - IF FILTER FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FILTER FABRIC SHALL BE REPLACED PROMPTLY.
- INSTALL DRAIN GUARD ON ALL CATCH BASINS PER DETAIL, SEED OR SOD THE AREA BETWEEN THE SILT FENCE AND THE INLET.
  - DRAIN GUARDS SHALL BE INSPECTED ONCE A WEEK UNDER ANY CIRCUMSTANCES, WITHIN 24 HOURS OF RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT.
  - BUILD-UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE SILT FENCE.
  - IF FILTER FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FILTER FABRIC SHALL BE REPLACED PROMPTLY.
- ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE. IF THE STOCKPILE WILL BE ON SITE FOR MORE THAN 90 DAYS, THE STOCKPILE MUST BE SEEDED.
  - IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDING AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD UNIFORMLY AT THE RATE OF 1 TO 2 TONS PER ACRE OR 100 POUNDS (2-3 BALES) PER 1000 SQUARE FEET.
  - THE MULCH SHOULD BE ANCHORED WITH DISC TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE JURISDICTIONAL AUTHORITY. MULCH MATTING MAY BE USED IN LIEU OF LOOSE MULCH.
- IF ANY PUMP-DRIVEN DEWATERING IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL-VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATOR MAY BE USED. IF ANY DEWATERING IS NEEDED OR ANTICIPATED, CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR REVIEW.
- CONSTRUCTION ACCESS TO BE FROM THE EXISTING APPROACH, OR OTHER EXPRESSLY DESIGNATED AREA. NO ACCESS SHOULD BE MADE FROM ADJACENT PROPERTIES WITHOUT PRIOR CONSENT.
- ALL MUD, DIRT, AND DEBRIS TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY BY THE GENERAL CONTRACTOR.
- STREETS AND/OR PARKING AREAS WILL BE SCRAPPED AND SWEEPED ON A DAILY BASIS BY THE GENERAL CONTRACTOR.
- ALL DISTURBED AREAS SHALL BE MAINTAINED FOR DUST CONTROL. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES AND USED ON HAIL ROADS, ON-SITE DISTURBED AREAS, AND OTHER AREAS WHERE DUST BECOMES A PROBLEM AS A RESULT OF CONSTRUCTION ACTIVITY.
- PERMANENT SESC MEASURES FOR ANY DISTURBED LAND AREA SHALL BE COMPLETED BY THE GENERAL CONTRACTOR WITHIN FIVE (5) CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE ACTIVITY CEASES, TEMPORARY SESC MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SESC MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SESC MEASURES ARE IMPLEMENTED.
- THE GENERAL CONTRACTOR SHALL FINAL GRADE, ESTABLISH VEGETATION, AND/OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.
- THE GENERAL CONTRACTOR SHALL REMOVE ALL TEMPORARY SESC DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.
- 3-4" OF TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED.
- SLOPES STEEPER THAN 1V:6H (16%) SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.
- EXISTING DRAINAGE OUTLET FOR SITE: OVERLAND FLOW TO WEST MAIN ROAD ROW STORM WATER MANAGEMENT SYSTEM
- PROPOSED DRAINAGE OUTLET FOR SITE: CAPTURE, TREAT, DETAIN, AND OUTLET AT A CONTROLLED RATE TO WEST MAIN ROAD ROW STORM WATER MANAGEMENT SYSTEM.
- TOTAL AREA OF DISTURBANCE: 0.95± AC
- SOIL TYPE(S): PmB: PITSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES  
UD: UDORTHEMTS-URBAN LAND COMPLEX  
Ur: URBAN LAND

**CONSTRUCTION SITE DEWATERING NOTES**

TAKE CARE WHEN DEWATERING CONSTRUCTION SITES. DO NOT PUMP SEDIMENT-LADEN WATER DIRECTLY TO LAKES, STREAMS, COUNTY DRAINS, STORM DRAINS, WETLANDS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. THE PROPER WAY TO DEWATER A CONSTRUCTION SITE IS AS FOLLOWS:

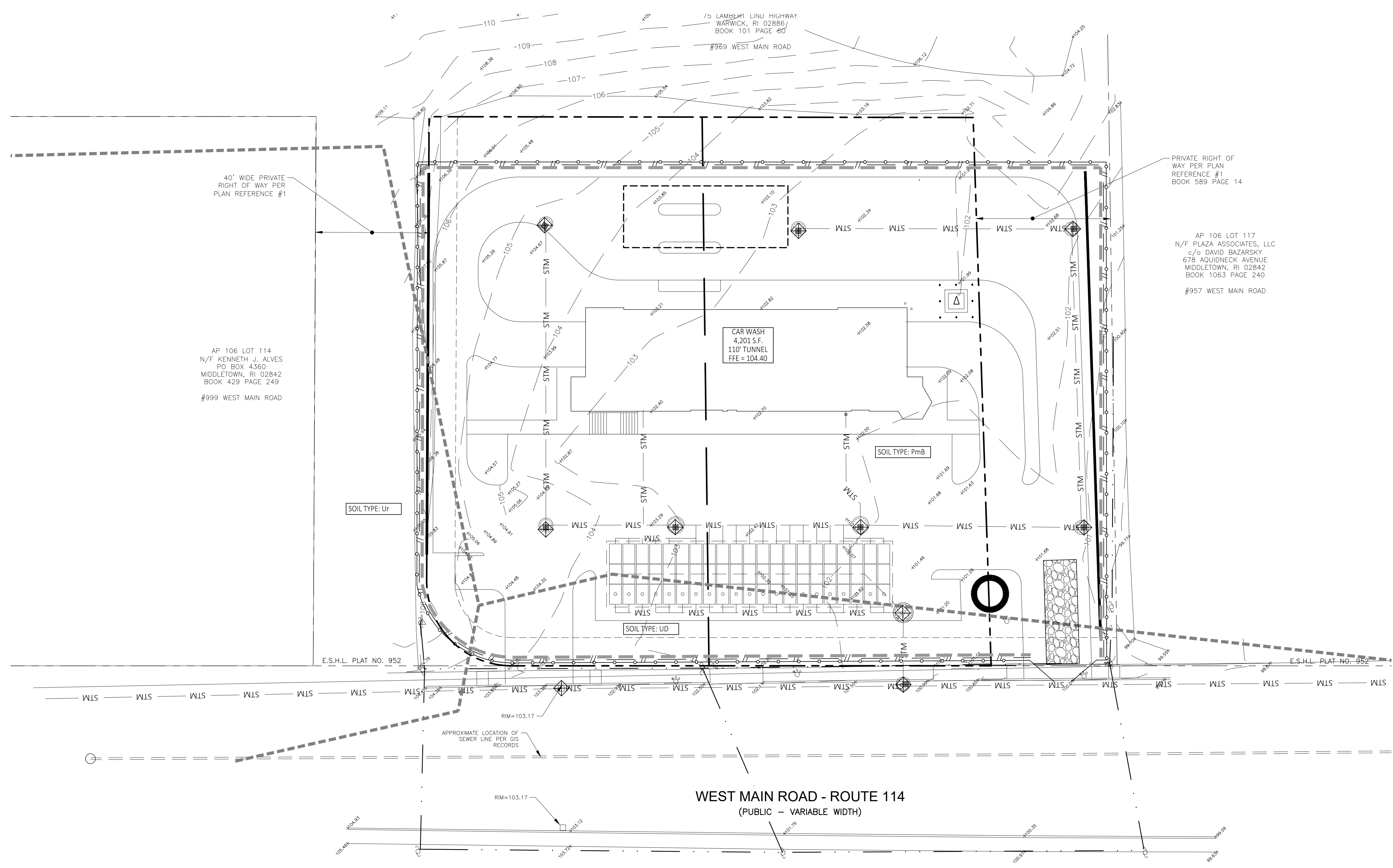
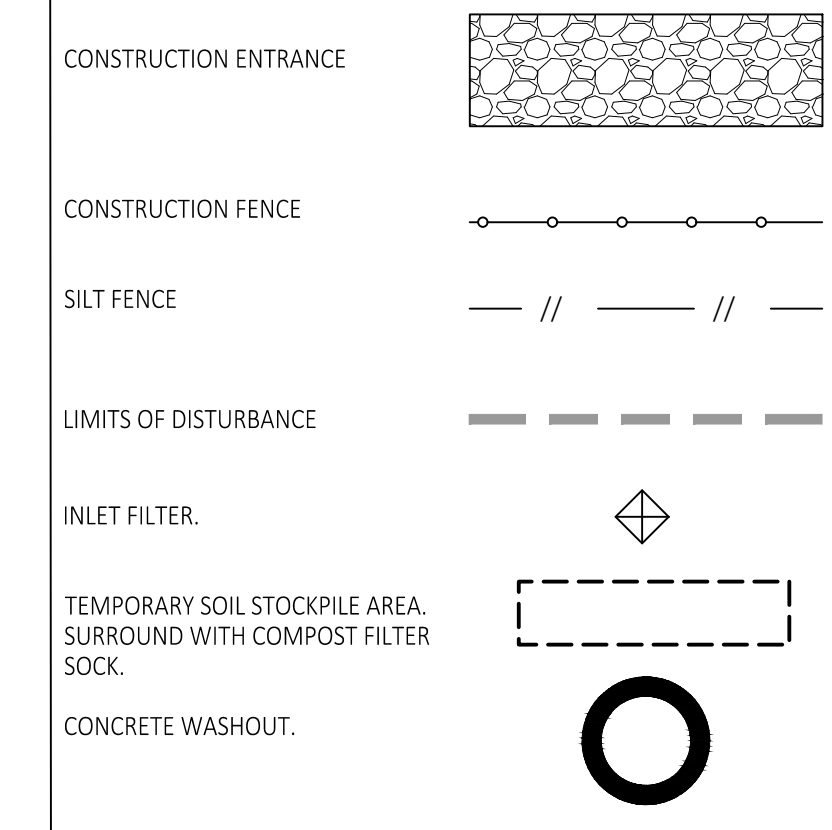
- PLACE A GEOTEXTILE FILTER BAG OR GEOTUBE ON THE END OF THE DISCHARGE HOSE.
- DISCHARGE DIRECTLY TO A SEDIMENT BASIN.
- DISCHARGE TO A WELL VEGETATED AREA (NOT WETLANDS).
- DISCHARGE INTO A CONSTRUCTED CONTAINMENT AREA.

DISSIPATE ENERGY TO PREVENT SCOURING, AND INSPECT DEWATERING OPERATIONS SEVERAL TIMES DAILY.

**CONSTRUCTION SEQUENCE:**

- INSTALL TRAFFIC AND PEDESTRIAN SAFETY BARRICADES.
- INSTALL TEMPORARY EROSION CONTROL MEASURES. PROTECT ALL AREAS THAT COULD ALLOW SEDIMENT TO MIGRATE OFF-SITE VIA SURFACE RUNOFF, VIA ENCLOSED DRAINAGE SYSTEMS OR VIA TRACKING CAUSED BY CONSTRUCTION EQUIPMENT, ETC. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING ACTIVITIES.
- COMPLETE REQUIRED REMOVALS AND LEGALLY DISPOSE OF DEBRIS AND WASTE OFF-SITE.
- PERFORM MASS GRADING AND CONSTRUCT SITE IMPROVEMENTS.
- DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DITCHES, SILT FENCING, SEDIMENT TRAPS, ETC. SEED AND MULCH AS REQUIRED.
- INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES PER JURISDICTIONAL AUTHORITY REQUIREMENTS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES WHEN SITE IS STABILIZED.

**LEGEND - SEE SHEET C5.00 FOR ASSOCIATED DETAILS**



**RHODE ISLAND STORMWATER MANAGEMENT, DESIGN, AND INSTALLATION RULES:**

- 16.D.4 Preserve Topsoil: Site owners and operators must preserve existing topsoil on the construction site to the maximum extent feasible and as necessary to support healthy vegetation. If it is determined that preserving native topsoil is infeasible, the reasons why this was determined must be addressed in the SESC Plan.
- 16.D.5 Stabilize Soils: Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbance activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed using vegetative stabilization measures or using alternative measures whenever vegetative measures are deemed impracticable or during periods of drought. All disturbed soils exposed prior to October 15th shall be seeded by that date. Any such areas which do not have adequate vegetative stabilization by November 15th must be stabilized through the use of non-vegetative erosion control measures. If work continues within any of these areas during the period from October 15th through April 15th, care must be taken to ensure that only the area required for that day's work is exposed, and all erodible soil must be restabilized within 5 working days. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed.
- 16.D.8 Establish Temporary Controls for the Protection of Post-Construction Stormwater Control Measures: Temporary measures shall be installed to protect permanent or long-term stormwater control and treatment measures as they are installed and throughout the construction phase of the project so that they will function properly when they are brought online. The plan shall identify areas where infiltration measures are proposed and provide measures to restrict construction activity to prevent compaction of the area. In cases where this is not possible to avoid the area the Plan must include methods to restore the infiltration capacity of the soils.
- 16.D.11 Properly Design Constructed Stormwater Conveyance Channels: Temporary conveyance practices must be sized to handle the peak flow from the 10-year, 24-hour Type III design storm. Temporary conveyance measures may be required to be sized to handle the peak flow from larger design storms as determined on a case-by-case basis.
- 16.D.12 Retain Sediment On-Site
  - The SESC Plan shall contain a combination of practices that control erosion, control run-off, and control sediment. The combination of practices must be designed to prevent discharges of sediment. All plans shall include inlet protection, construction entrances, and containment of stockpiled materials.
  - For Disturbed Areas <1 Acre: Those areas with a common drainage location that serves an area with less than 1 acre disturbed at one time, a combination of phasing, stabilization and conveyances that provide run-off control will be sufficient.
  - For Disturbed Areas 1 to 5 Acres: Those areas with a common drainage location that serves an area between 1 and 5 acres disturbed at one time, a temporary sediment trap must be provided where attainable and where the sediment trap is only intended to be used for a period of 6 months or less. For longer term projects with a common drainage location that serves between 1 and 5 acres disturbed at one time, a temporary sediment basin must be provided where attainable. Temporary sediment trapping practices must be sized to have a total storage volume capable of storing 1 inch of runoff from the contributing area or 134 cubic yards per acre of drainage area. A minimum of 50% of the total volume shall be storage below the outlet (wet storage). The Rhode Island Soil Erosion and Sediment Control Handbook provides the recommended and primary means to achieve this performance criteria.
  - For Disturbed Areas > 5 Acres: Those areas with a common drainage location that serves an area greater than 5 acres disturbed at one time, a temporary (or permanent) sediment basin must be provided where attainable until final stabilization of the site is complete. The Rhode Island Soil Erosion and Sediment Control Handbook provides the recommended and primary means to achieve this performance criteria. The volume of wet storage shall be at least twice the sediment storage volume and shall have a minimum depth of 2 feet. Sediment storage volume must accommodate a minimum of 1 year of predicted sediment load. See the sediment volume formula in the Rhode Island Soil Erosion and Sediment Control Handbook as the recommended and primary means to achieve this performance criteria. In addition to sediment storage volume and wet storage volume, the sediment basin shall provide adequate residence storage volume to provide a minimum 10 hours residence time for a 10-year frequency, 24 hour duration, Type III distribution storm. To the maximum extent practicable, outlet structures must be utilized that withdraw water from the surface of temporary sedimentation basins, if required or specified by the designer, for the purpose of minimizing the discharge of pollutants. Exceptions may include periods of extended cold weather, where alternative outlets are required during frozen periods. If such a device is infeasible for portions of or the entire construction period justification must be made in the SESC Plan.

CONSTRUCTION OPERATION TIME SCHEDULE		WEEK										
CONSTRUCTION SEQUENCE		2	4	6	8	10	12	14	16	18	20	22
1	INSTALL SESC MEASURES											
2	DEMOLITION											
3	EXCAVATION											
4	BACKFILL											
5	SESC MEASURES INSPECTIONS AND MAINTENANCE											
6	COMPLETE EARTH MOVEMENTS											
7	FINAL GRADING, SEEDING AND MULCHING											

**sevan ENGINEERING**  
 Regional Office:  
 37704 Hills Tech Drive  
 Farmington Hills, MI 48331  
 734.367.4445 Telephone  
 Corporate Office:  
 3025 Highland Parkway, Suite 850  
 Downers Grove, IL 60515  
 Info@sevan.com www.sevan.com  
 INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

**REVISIONS**

NO.	DATE	DESCRIPTION
0	03.19.2022	SITE PLAN REVIEW
1	06.30.2022	REVISED PER RIDEM AND RIDOT
2	08.05.2022	REVISED PER RIDOT
3	08.25.2022	REVISED PER RIDEM
4	09.29.2022	REVISED PER TOWN REVIEW

**CONSULTANT**

**SEAL**  
 TIMOTHY KRATZ  
 No. 11620  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
 10/03/2022

**CUSTOMER**  
 Washville  
 Your Hometown Car Wash

**PROJECT DESCRIPTION**  
 WASHVILLE CARWASH

**PROJECT LOCATION**  
 991-995 W MAIN RD  
 MIDDLETOWN, RI 02842  
 (NEWPORT COUNTY)

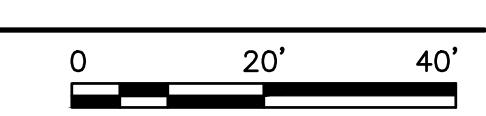
**SHEET TITLE**  
 SOIL EROSION AND SEDIMENTATION CONTROL SITE PLAN

**SHEET MANAGEMENT**  
 PROJECT NO.: MIDDLETOWN RI  
 DATE: -  
 CRITERIA: 110' TUNNEL  
 PROJECT MANAGER: -

**SHEET NUMBER**  
 C1.11

FILE NAME: \\Share\Clients\Strology\Washville\Main - Middletown RI\DS\ComDes\C1.11.dwg LAST SAVED BY: Patricia, Ovelado SAVED DATE: 9/29/2022 11:29 AM PLOTTED: 9/29/2022 1:41 PM

**SOIL EROSION AND SEDIMENTATION CONTROL SITE PLAN**  
 SCALE: 1" = 20'-0"



**REVISIONS**

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**CONSULTANT**

**SEAL**

TIMOTHY KRATZ  
No. 11620  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
10/03/2022

**CUSTOMER**



**PROJECT DESCRIPTION**

**WASHVILLE CARWASH**

**PROJECT LOCATION**

**991-995 W MAIN RD  
MIDDLETOWN, RI 02842**

(NEWPORT COUNTY)

**SHEET TITLE**

**DIMENSION CONTROL  
SITE PLAN**

**SHEET MANAGEMENT**

PROJECT NO.:	MIDDLETOWN RI
DATE:	-
CRITERIA:	110' TUNNEL
PROJECT MANAGER:	-

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**SHEET NUMBER**

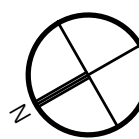
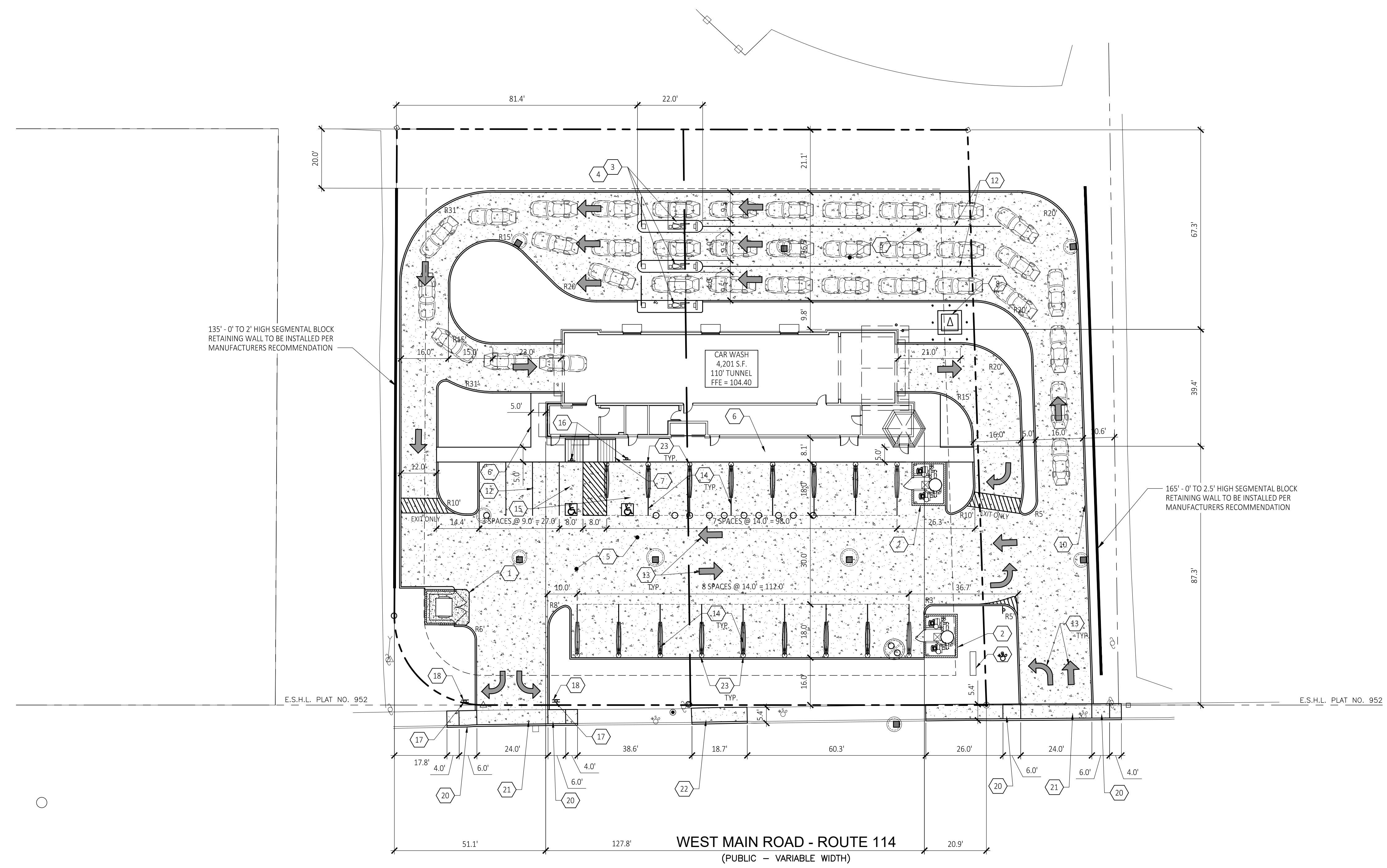
**C1.20**

**PROPOSED SITE IMPROVEMENTS**

- TRASH ENCLOSURE, CONCRETE PAD AND PROTECTIVE BOLLARDS. SEE ARCH PLANS.
- VACUUM PRODUCER. SEE VENDOR PLANS.
- PAY STATION/CANOPY.
- PAY STATION ISLAND.
- CONCRETE PAVEMENT. SEE DETAILS 3/CS.01. CONTRACTOR SHALL PROVIDE JOINTING PLAN.
- CONCRETE SIDEWALK. WIDTH VARIES SEE PLAN.
- ACCESSIBLE CONCRETE CURB RAMP. SEE DETAIL 6/CS.01.
- TRANSFORMER PAD PER SERVICE PROVIDER SPECIFICATIONS.
- SITE ID SIGN.
- CONCRETE CURB. SEE DETAIL 7/CS.01.
- STORM WATER STRUCTURE. SEE STORM WATER MANAGEMENT PLAN C1.31.
- 4" PAINTED PARKING STRIPE. SEE DETAIL 9/CS.01.
- PAINTED DIRECTIONAL ARROW. SEE DETAIL 9/CS.01.
- VACUUM CANOPY. BY VENDOR.
- BARRIER-FREE PARKING STALL. SEE DETAIL 5/CS.01.
- BARRIER-FREE PARKING SIGNS. SEE DETAIL 8/CS.01.
- R5-1 "DO NOT ENTER" SIGN
- R1-1 "STOP" SIGN
- R3-2 "NO RIGHT TURN" WITH R6-1L "ONE WAY" SIGN ON SAME POST
- 6" TRANSITION CURB AND 5" WIDE CONCRETE SIDEWALK - SEE RIDOT STANDARD DETAILS "7.1.2", "7.6.0", "43.1.0", "43.4.1"
- 5' WIDE CONCRETE APRON - SEE RIDOT STANDARD DETAILS "43.4.1", "43.5.0"
- CLOSE EXISTING CURB CUT MATCH CURB MATERIAL AND ELEVATIONS. CONCRETE SIDEWALK TO MATCH EXISTING - SEE RIDOT STANDARD DETAILS "7.1.0", "7.6.0", "43.1.0"
- TRASH RECEPTACLE AT BASE OF VACUUM CANOPY. BY VENDOR.

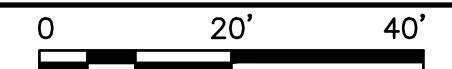
**GENERAL SITE NOTES**

- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
- NOTIFY OWNER OF ANY DISCREPANCIES.
- SEE SURVEY FOR ALL EXISTING CONDITIONS.
- ALL WORK IN PUBLIC RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS AND STANDARDS.



**DIMENSION CONTROL SITE PLAN**

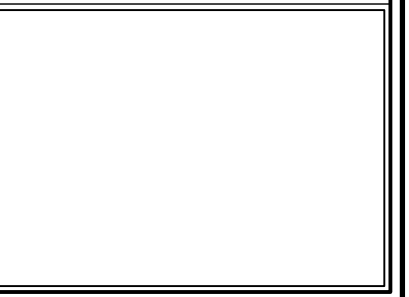
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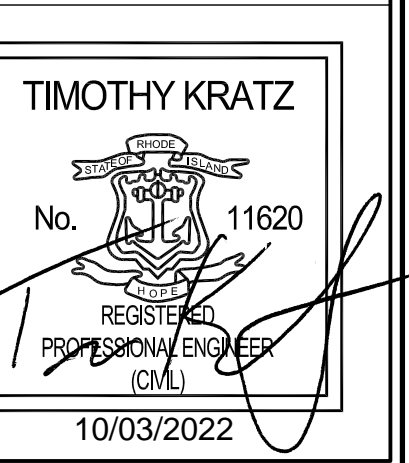
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**CONSULTANT**



**SEAL**



**CUSTOMER**



**PROJECT DESCRIPTION**

**WASHVILLE CARWASH**

**PROJECT LOCATION**

**991-995 W MAIN RD**  
**MIDDLETOWN, RI 02842**  
**(NEWPORT COUNTY)**

**SHEET TITLE**

**GRADING SITE PLAN**

**SHEET MANAGEMENT**

PROJECT NO.: MIDDLETOWN RI  
DATE: -  
CRITERIA: 110' TUNNEL  
PROJECT MANAGER: -  
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**SHEET NUMBER**

**C1.30**

**SITE SPECIFIC GRADING GENERAL NOTES:**

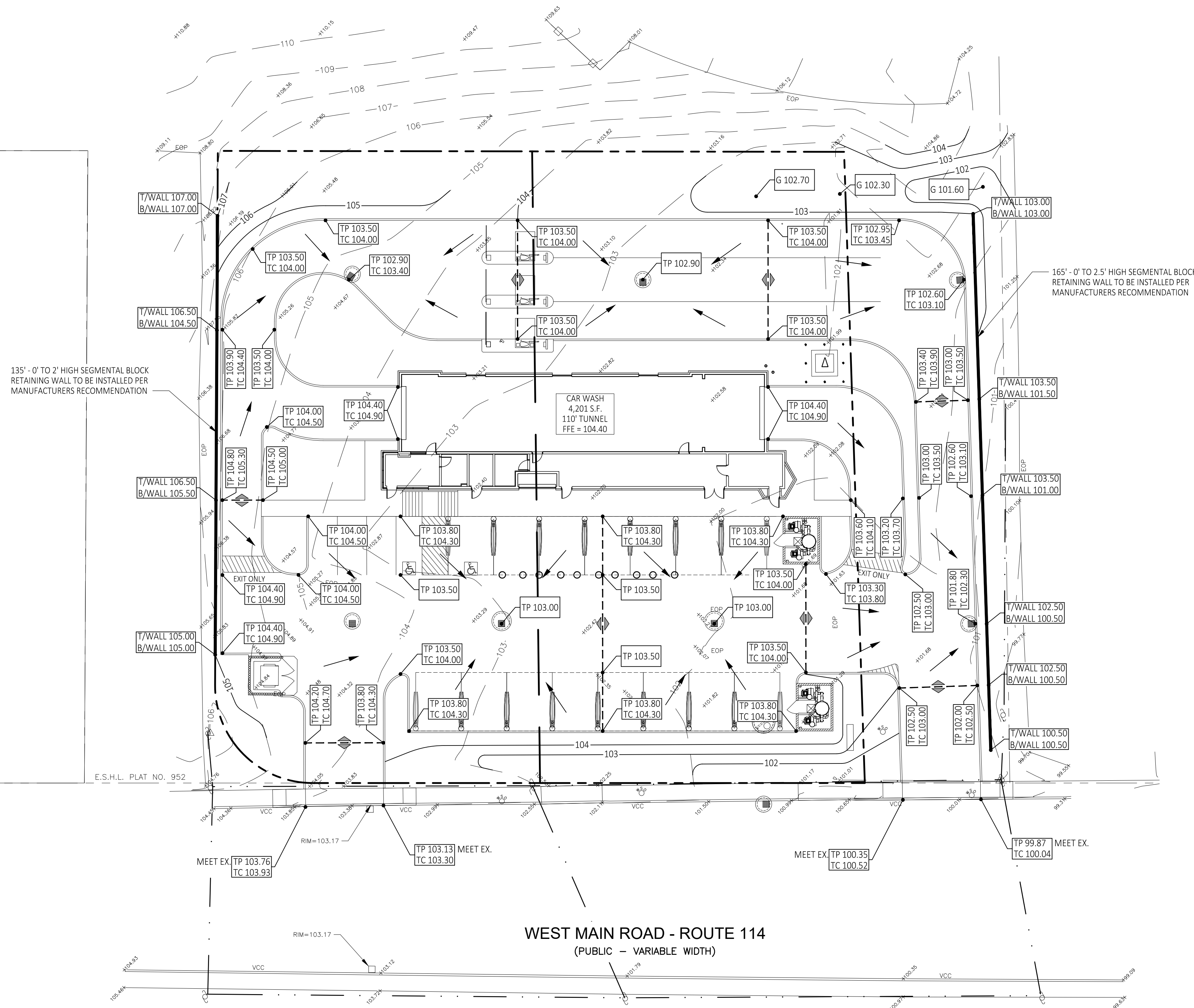
THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY EXISTING SITE IMPROVEMENTS THAT MAY BE DISTURBED DURING CONSTRUCTION. THIS SHALL INCLUDE, AND IS NOT NECESSARILY LIMITED TO:  
(A) EXISTING CURB THAT MAY BE DISTURBED  
(B) EXISTING ASPHALT THAT MAY BE DISTURBED  
(C) EXISTING LANDSCAPING,  
(D) EXISTING LIGHT STANDARD(S) AND WIRING.

**GRADING LEGEND:**

TG	GUTTER GRADE
TC	TOP OF CURB
T/WALL	TOP OF WALL
B/WALL	FINISHED GRADE AT BASE OF WALL
FG	FINISHED GRADE
FL	DITCH FLOW LINE
TP	TOP OF PAVEMENT
RIM	UNDERGROUND STRUCTURE RIM
TW	TOP OF WALK
FFE	FINISHED FLOOR ELEVATION
ME	MATCH EXISTING
2.0%	PROPOSED SLOPE
→	DIRECTION OF OVERLAND FLOW

**GRADING NOTES:**

- VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE BUILDING WITH THE ARCHITECTURAL PLANS.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE DRAWINGS AND PROJECT MANUAL, AND WITH LOCAL JURISDICTIONAL AUTHORITY STANDARDS AND SPECIFICATIONS.
- ALL PROPOSED SPOT ELEVATIONS IN PAVED AREAS ARE TO TOP OF PAVEMENT UNLESS NOTED OTHERWISE.
- THE PROJECT SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES, ENSURING NO AREAS OF STANDING WATER.
- THE GENERAL CONTRACTOR SHALL, AT HIS OR HER EXPENSE, RESTORE ANY AND ALL STRUCTURES, PIPE, UTILITY, PAVEMENT, CURB, SIDEWALK, LANDSCAPED AREA, ETC. DISTURBED WITHIN THE SITE AND/OR ADJOINING PROPERTIES DURING DEMOLITION OR CONSTRUCTION. SUCH FACILITIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE AFFECTED OWNER(S).
- UNDERDRAINS MAY BE ADDED, IF DETERMINED NECESSARY BY THE GENERAL CONTRACTOR AND AUTHORIZED BY THE OWNER'S REPRESENTATIVE, AFTER SUBGRADE IS ROUGH GRADED.
- UNLESS OTHERWISE EXPRESSLY INDICATED HEREON, FINISHED GRADES ARE TO MATCH ADJACENT EXISTING GRADES.
- THE GENERAL CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. SEE SESC PLAN ON SHEET C1.11 FOR LIMIT OF DISTURBANCE. PROTECT EXISTING TREES TO REMAIN WITH TEMPORARY FENCING PLACED AT THE DRIP LINE. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL SHALL OCCUR WITHIN THE DRIP LINE LIMITS, UNLESS HERON EXPRESSLY INDICATED OTHERWISE.
- ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS AND MATERIALS OF CONSTRUCTION TO COMPLETE THE CONSTRUCTION PER THE DRAWINGS AND PROJECT MANUAL. ADDITIONALLY, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF EXCESS OR UNSUITABLE MATERIAL, AS WELL AS THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE PROJECT.
- PER TOWNSHIP STANDARDS, ALL STORMWATER RUNOFF SHALL BE CONTAINED AND COLLECTED ON-SITE TO BE CONVEYED UNDERGROUND TO THE EXISTING STORMWATER MANAGEMENT SYSTEM.



PROPOSED:

STORM SEWER	STM
ROOF DRAIN	RD
SANITARY SEWER	SAN
WATER MAIN/SERVICE	W
GAS MAIN/SERVICE	GAS
ELECTRIC SERVICE	UGE
TELEPHONE SERVICE	UGT
OVERHEAD UTILITIES	OH

STORM MANHOLE	TRANSFORMER
CATCH BASIN	LIGHT POLE
YARD BASIN	WATER VALVE
FLARED END SECTION	FIRE HYDRANT
SANITARY MANHOLE	
SANITARY CLEANOUT	

**LEGEND**



PROPOSED:	
STORM SEWER	STM
ROOF DRAIN	RD
SANITARY SEWER	SAN
WATER MAIN/SERVICE	W
GAS MAIN/SERVICE	GAS
ELECTRIC SERVICE	UGE
TELEPHONE SERVICE	UGT
OVERHEAD UTILITIES	OH
PROPOSED UTILITIES BY OTHERS	STM
STORM MANHOLE	STM
CATCH BASIN	CB
YARD BASIN	YB
FLARED END SECTION	FES
SANITARY MANHOLE	SMH
SANITARY CLEANOUT	SCO
TRANSFORMER	TR
LIGHT POLE	LP
WATER VALVE	WV
FIRE HYDRANT	FH

EXISTING:	
PROPERTY LINE	PL
EDGE OF PAVEMENT	EOP
EDGE OF GRAVEL	EOG
OVERHEAD UTILITY LINES	OH
DRAINAGE LINE	D
SEWER LINE	S
GAS LINE	G
TEL. LINE	T
UNDERGROUND ELECT.	UG
DOUBLE YELLOW LINE	DYL
SINGLE WHITE LINE	SWL
VERTICAL OR SLOPED GRANITE CURB	VOC OR SGC
IRRIGATION CONTROL VALVE	ICV
EDGE OF WOODS	EW
CONCRETE	CON
MONITORING WELL	MW
IRON PIPE OR REBAR	IPR
GRANITE OR CONCRETE BOUND (GB OR CB)	GB OR CB
UTILITY POLE	UP
SEWER MANHOLE	SMH
DRAIN MANHOLE	DMH
CATCH BASIN	CB
WATER SHUTOFF	WS
WATER VALVE	WV
GAS SHUTOFF	GS

**UTILITY EASEMENT NOTE:**  
REFER TO THE BOUNDARY/TOPOGRAPHIC SURVEY PREPARED BY GPI FOR INFORMATION REGARDING EXISTING EASEMENTS.

**UTILITY CROSSING NOTE:**  
SEE SHEET C1.40 FOR UTILITY CROSSINGS.

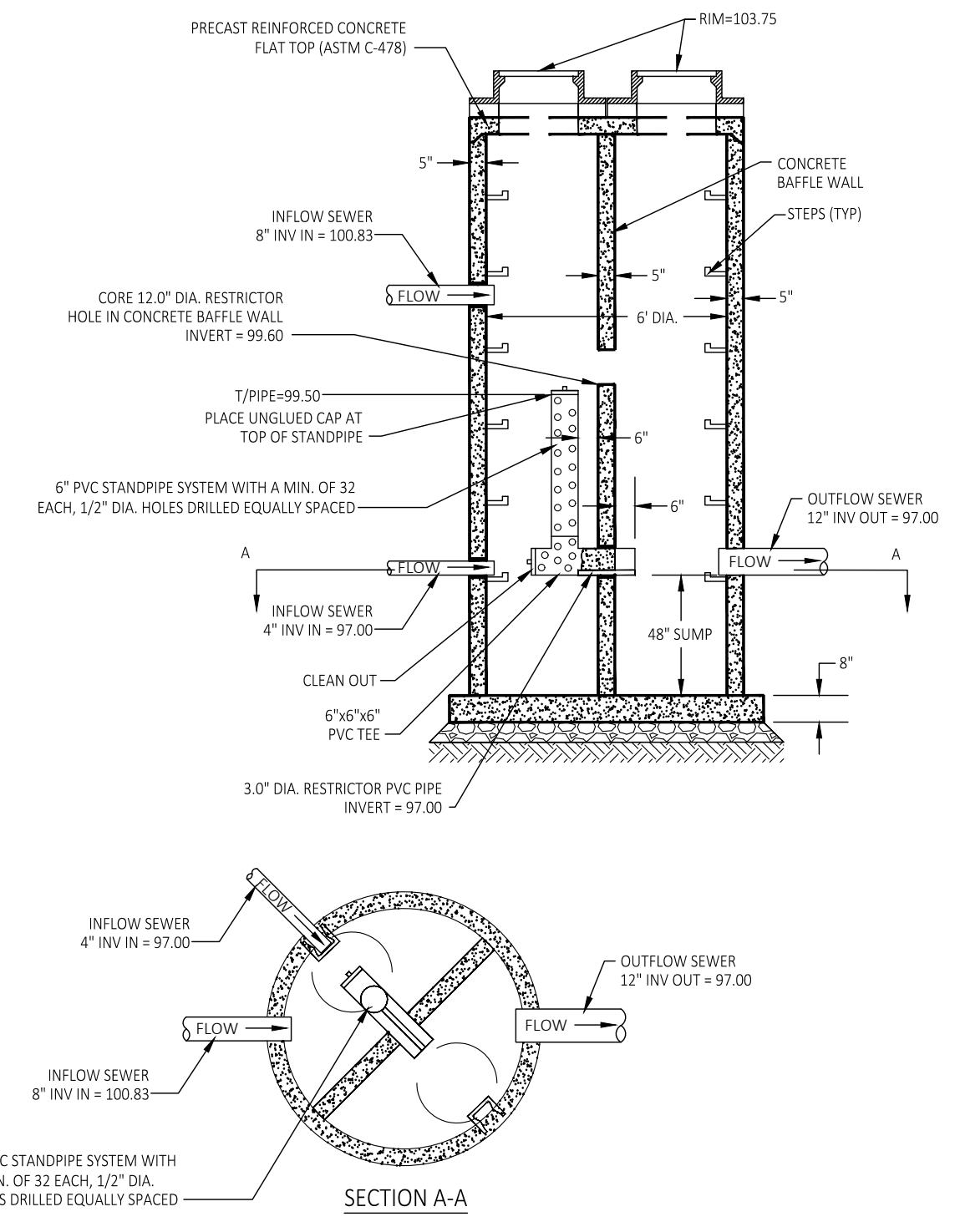
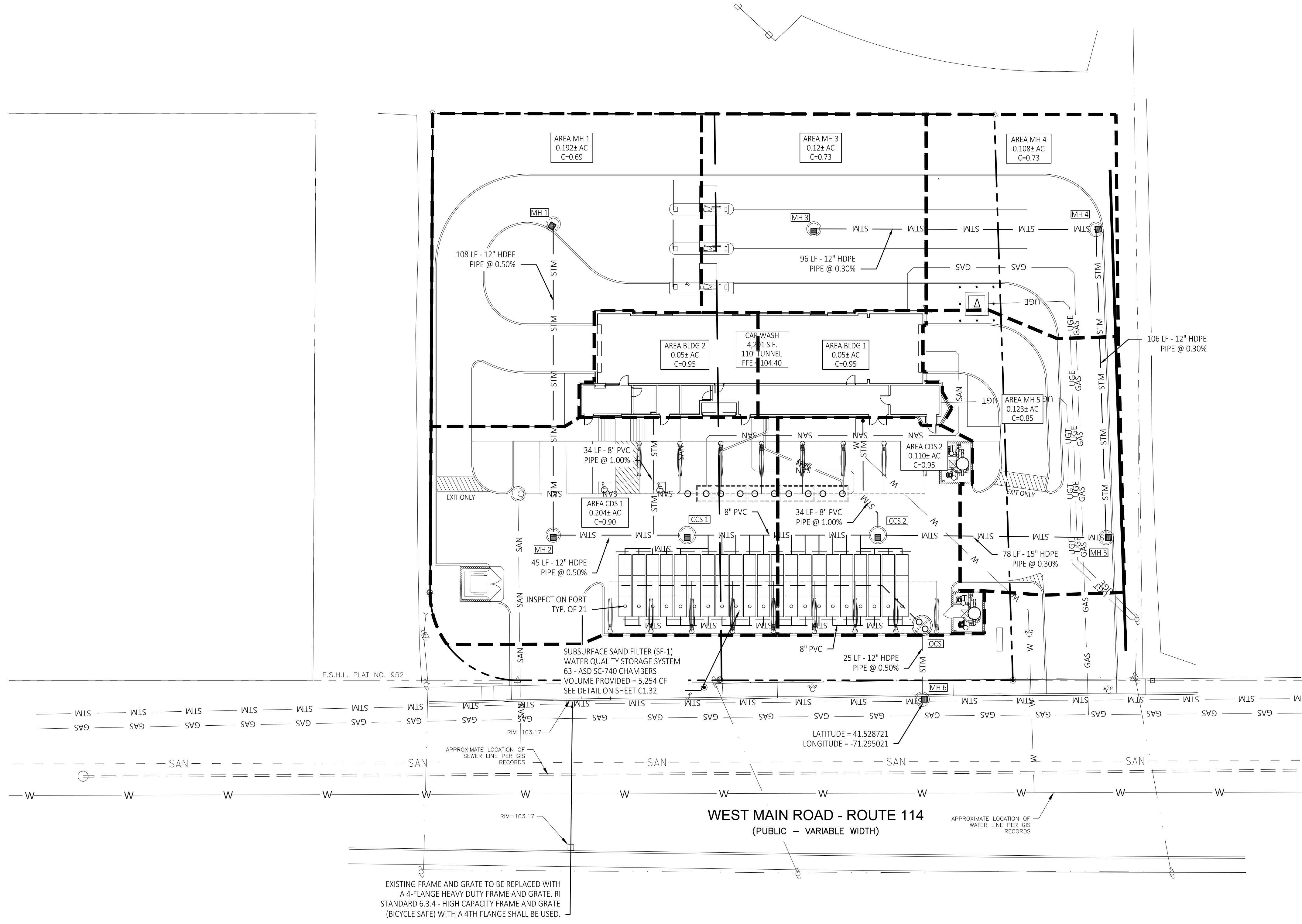
**RIDOT UTILITY PERMIT NOTE:**  
THE OWNER OR CONTRACTOR SHALL APPLY FOR AND RECEIVE A UTILITY PERMIT FROM THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION BEFORE PERFORMING ANY WORK WITHIN THE RIGHT OF WAY.

- STORM STRUCTURE NOTES:**
- SEE DETAILS ON SHEET C5.02.
  - ALL STORM STRUCTURES TO BE INSTALLED IN ACCORDANCE WITH LOCAL STANDARDS AND DETAILS UNLESS NOTED OTHERWISE.
  - PROVIDE INLET FILTERS FOR ALL INLETS. FILTER SHALL BE REGULARLY MAINTAINED AND REMAIN IN PLACE UNTIL FINAL GRADES HAVE BEEN ESTABLISHED. REFER TO SHEET C1.11.
  - ALL STRUCTURE FRAME AND GRATES TO BE STANDARD UNLESS NOTED OTHERWISE.
  - NORTHING AND EASTING PER COORDINATE SYSTEM PROVIDED IN THE SURVEY AUTOCAD FILE PROVIDED BY GPI.
  - ALL CATCH BASINS AND INLETS SHALL HAVE UNDERDRAINS INSTALLED, WRAPPED IN GEOTEXTILE AND PLACED IN THE SEWER TRENCH, NOT MORE THAN 3 FEET BELOW THE TOP OF THE CASTING.

STRUCTURE TABLE				
NAME:	DETAILS:	DESCRIPTION:	N	E
MH 1	RIM = 102.90 12" NW INV OUT = 99.90	4' Diameter Concentric Cylindrical Manhole Structure	384326.23	162412.96
MH 2	RIM = 103.75 12" SE INV IN = 99.36 12" SW INV OUT = 99.36	4' Diameter Concentric Cylindrical Manhole Structure	384232.83	162466.18
MH 3	RIM = 102.90 12" SW INV OUT = 99.90	4' Diameter Concentric Cylindrical Manhole Structure	384280.52	162336.16
MH 4	RIM = 102.60 12" NE INV IN = 99.61 12" NW INV OUT = 99.61	4' Diameter Concentric Cylindrical Manhole Structure	384232.48	162252.19
MH 5	RIM = 101.80 12" SW INV IN = 99.29 12" NE INV OUT = 99.29	4' Diameter Concentric Cylindrical Manhole Structure	384138.93	162301.47
MH 6	RIM = 101.16± 12" N INV IN = 96.87 EX 12" INV = 96.65±	4' Brick/Solid Block 4'-0" Diameter Round Manhole (R.I. Standard 3.2.0). See Detail 7/CS.03.	384128.80	162397.32
OCS	RIM = 103.75 8" NE INV IN = 100.83 4" NE INV IN = 97.00 12" NW INV OUT = 97.00	4' Diameter Concentric Cylindrical Outlet Control Structure, Deep Sump Catch Basin with overflow riser and 3.0" diameter restrictor	384143.98	162371.22
CCS 1	RIM = 103.00 12" NE INV IN = 99.13 8" SW INV OUT = 99.00	Contech Cascade Separator Model CS-4 with Solid Lid Frame and Cover; See Detail on Sheet C1.32	384210.81	162425.89
CCS 2	RIM = 103.00 15" SW INV IN = 99.06 8" NE INV OUT = 99.00	Contech Cascade Separator Model CS-4 with Solid Lid Frame and Cover; See Detail on Sheet C1.32	384178.43	162369.04

**LEGEND**

**STRUCTURE TABLE**



**1 OUTLET CONTROL STRUCTURE DETAIL**  
C1.31 SCALE: NONE

**sevan ENGINEERING**  
Regional Office:  
37704 Hills Tech Drive  
Farmington Hills, MI 48331  
734.367.4445 Telephone

Corporate Office:  
3025 Highland Parkway, Suite 850  
Downers Grove, IL 60515  
Info@sevanengineering.com www.sevanengineering.com  
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**TIMOTHY KRATZ**  
No. 11620  
REGISTERED PROFESSIONAL ENGINEER (CEM)  
10/03/2022

**CUSTOMER**

**Washville**  
Your Hometown Car Wash

**PROJECT DESCRIPTION**

**WASHVILLE CARWASH**

**PROJECT LOCATION**

**991-995 W MAIN RD  
MIDDLETOWN, RI 02842**  
(NEWPORT COUNTY)

**SHEET TITLE**

**STORM WATER  
MANAGEMENT PLAN**

**SHEET MANAGEMENT**

PROJECT NO.: MIDDLETOWN RI  
DATE: -  
CRITERIA: 110' TUNNEL  
PROJECT MANAGER: -

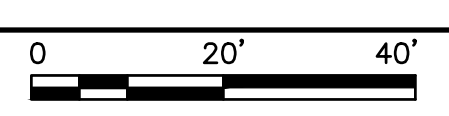
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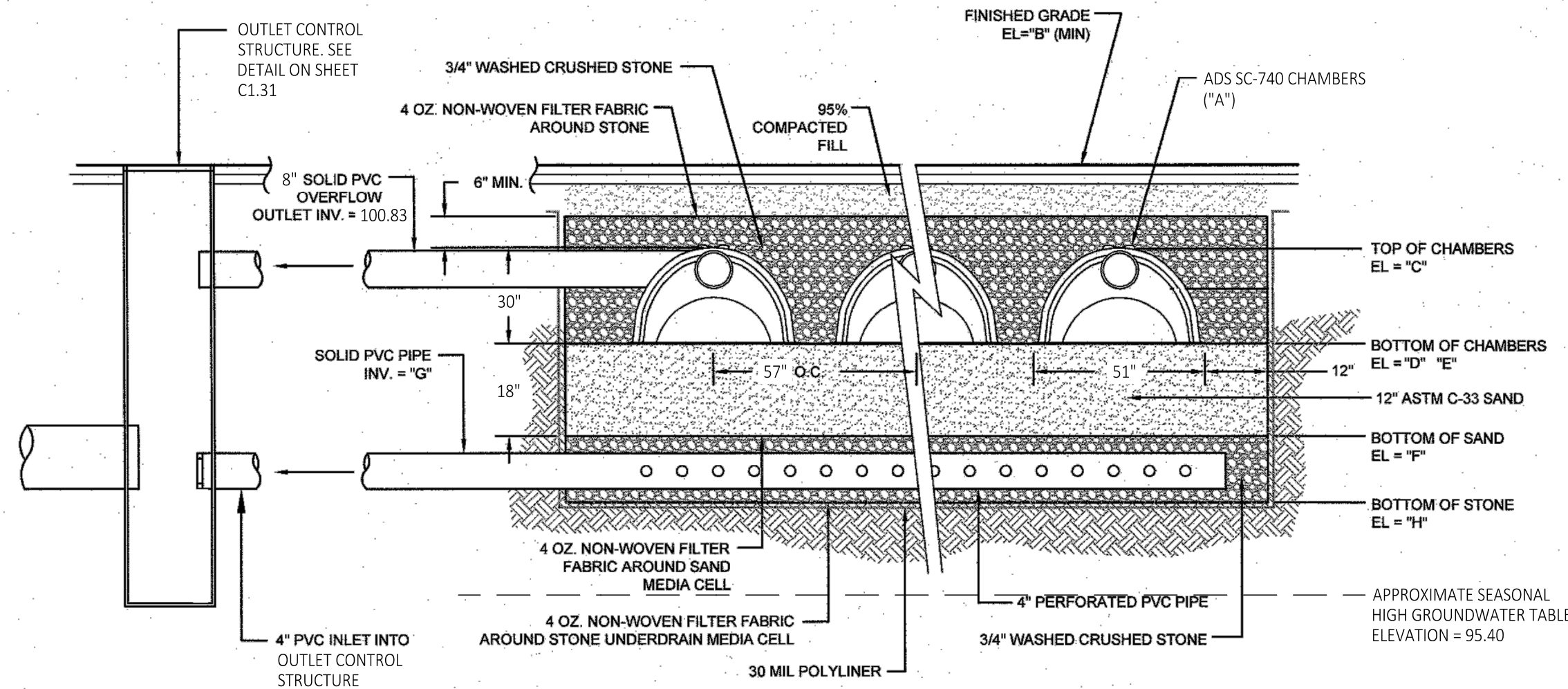
**C1.31**

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**STORM WATER MANAGEMENT PLAN**  
SCALE: 1" = 20'-0"

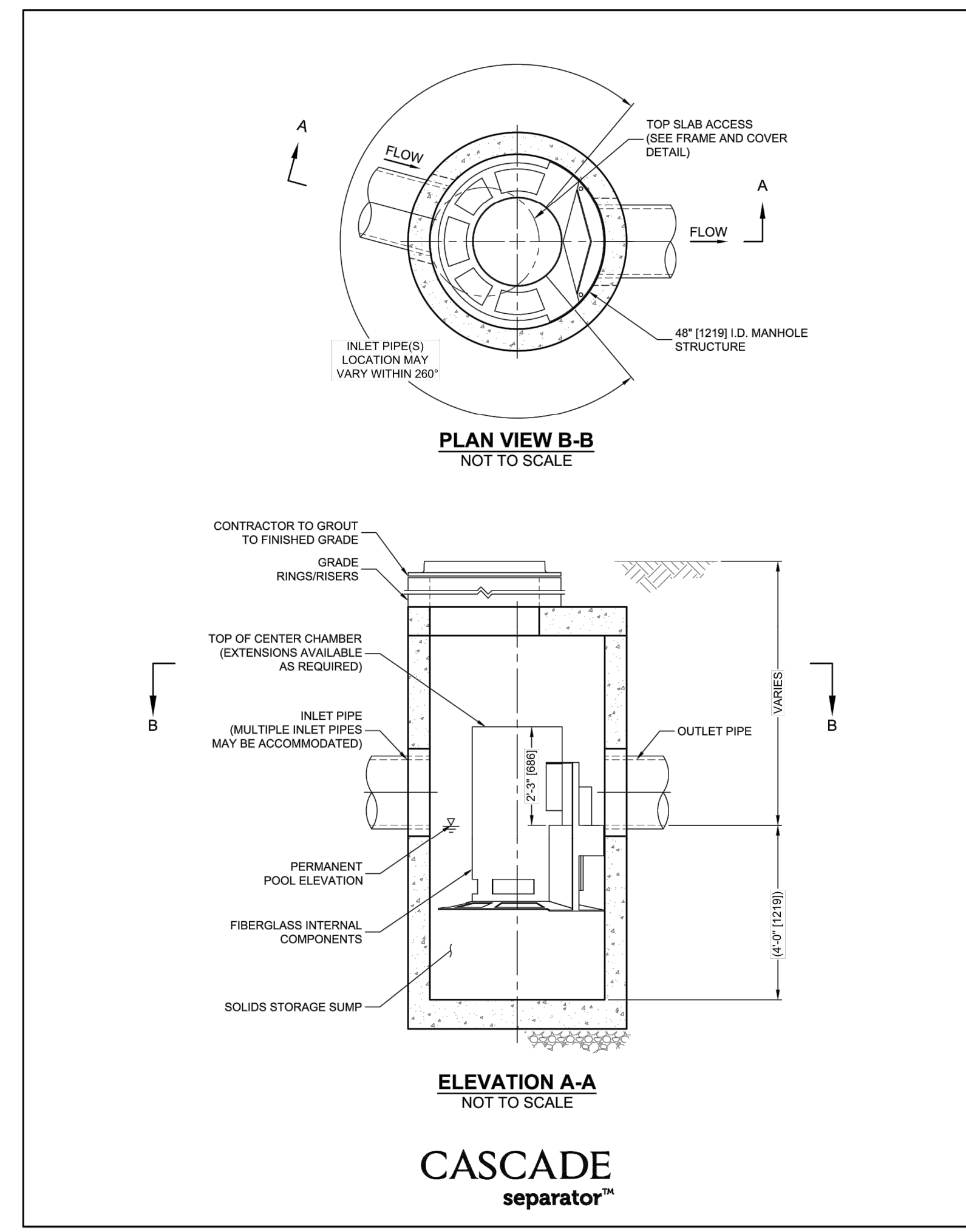




NOTE: EXCAVATIONS FOR SYSTEMS MUST BE LINED WITH A 30 MIL POLYLINER TO PREVENT INTERACTION WITH GROUNDWATER

SYSTEM ID	NUMBER OF UNITS 'A'	FINISHED GRADE 'B'	TOP OF CHAMBERS 'C'	CHAMBER INLETS 'D'	BOTTOM OF CHAMBERS 'E'	BOTTOM OF SAND 'F'	UNDERDRAIN INVERT 'G'	BOTTOM OF STONE 'H'
SF-1	63	VARIES SEE SHEET C1.30	101.00	99.00	99.00	97.50	97.00	96.67

**TYPICAL SUBSURFACE SAND FILTER SECTION**  
SCALE: NOT TO SCALE



**CASCADE separator™**

**CASCADE SEPARATOR DESIGN NOTES**

THE STANDARD CS-4 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

**CONFIGURATION DESCRIPTION**

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	WATER QUALITY FLOW RATE (cfs [L/s])	PEAK FLOW RATE (cfs [L/s])	RETURN PERIOD OF PEAK FLOW (yrs)	RIM ELEVATION

PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. [www.contechES.com](http://www.contechES.com)
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO H2010 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' (610), AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M250R AND BE CAST WITH THE CONTECH LOGO.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS (mm).

**INSTALLATION NOTES**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**CONTECH ENGINEERED SOLUTIONS LLC**  
www.contechES.com  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45399  
800-338-1122 513-645-7000 513-645-7993 FAX

CS-4  
CASCADE SEPARATOR  
STANDARD DETAIL

**sevan ENGINEERING**  
Regional Office:  
37704 Hills Tech Drive  
Farmington Hills, MI 48331  
734.367.4445 Telephone  
Corporate Office:  
3025 Highland Parkway, Suite 850  
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WASHVILLE CARWASH

**PROJECT LOCATION**

991-995 W MAIN RD  
MIDDLETOWN, RI 02842  
(NEWPORT COUNTY)

**SHEET TITLE**

SAND FILTER AND CDS  
DETAILS

**SHEET MANAGEMENT**

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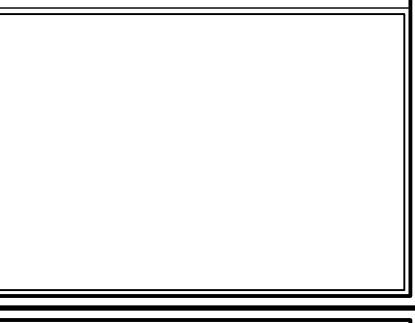
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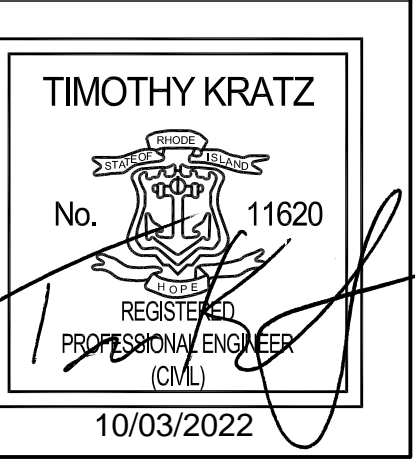
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3	08.25.2022	REVISED PER RIDEM
4	09.29.2022	REVISED PER TOWN REVIEW

**CONSULTANT**



**SEAL**



**CUSTOMER**



**PROJECT DESCRIPTION**

**WASHVILLE CARWASH**

**PROJECT LOCATION**

**991-995 W MAIN RD**  
**MIDDLETOWN, RI 02842**  
(NEWPORT COUNTY)

**SHEET TITLE**

**UTILITY PLAN**

**SHEET MANAGEMENT**

PROJECT NO.: MIDDLETOWN RI  
DATE: -  
CRITERIA: 110' TUNNEL  
PROJECT MANAGER: -  
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**SHEET NUMBER**

**C1.40**

**PROPOSED:**

STORM SEWER	STM
ROOF DRAIN	RD
SANITARY SEWER	SAN
WATER MAIN/SERVICE	W
GAS MAIN/SERVICE	GAS
ELECTRIC SERVICE	UGE
TELEPHONE SERVICE	UGT
OVERHEAD UTILITIES	OH
PROPOSED UTILITIES BY OTHERS	STM
STORM MANHOLE	SMH
CATCH BASIN	CB
YARD BASIN	YB
FLARED END SECTION	FES
SANITARY MANHOLE	SMH
SANITARY CLEANOUT	CO
TRANSFORMER	TRF
LIGHT POLE	LP
WATER VALVE	WV
FIRE HYDRANT	FHY

**EXISTING:**

PROPERTY LINE	---
EDGE OF PAVEMENT	---
EDGE OF GRAVEL	---
OVERHEAD UTILITY LINES	OH
DRAINAGE LINE	D
SEWER LINE	S
GAS LINE	G
TEL. LINE	T
UNDERGROUND ELECT.	UG
DOUBLE YELLOW LINE	DYL
SINGLE WHITE LINE	SWL
VERTICAL OR SLOPED GRANITE CURB	VOC OR SGC
EDGE OF WOODS	---
CONCRETE	---
MONITORING WELL	---
IRON PIPE OR REBAR	---
GRANITE OR CONCRETE BOUND (GB OR CB)	---
UTILITY POLE	---
SEWER MANHOLE	---
DRAIN MANHOLE	---
CATCH BASIN	---
HYDRANT	---
WATER SHUTOFF	---
WATER VALVE	---
GAS SHUTOFF	---

**LEGEND**

**NOTE: (\*)**  
SANITARY CONNECTION INVERT BASED ON MINIMUM SLOPE. GC TO VERIFY EXISTING SANITARY LEAD INVERT DURING CONSTRUCTION AND NOTIFY OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES.

**UTILITY EASEMENT NOTE:**  
REFER TO THE BOUNDARY/TOPOGRAPHIC SURVEY PREPARED BY GPI FOR INFORMATION REGARDING EXISTING EASEMENTS.

**DRY UTILITY NOTE:**  
THE ROUTING FOR TELECOMMUNICATIONS, NATURAL GAS, AND ELECTRIC, IF SHOWN, IS FOR SCHEMATIC PURPOSES ONLY. THE GENERAL CONTRACTOR SHALL CONTACT THE INDIVIDUAL UTILITY COMPANIES TO DETERMINE ACTUAL ROUTE FOR SERVICING THE BUILDING AND COORDINATE THEIR CONSTRUCTION.

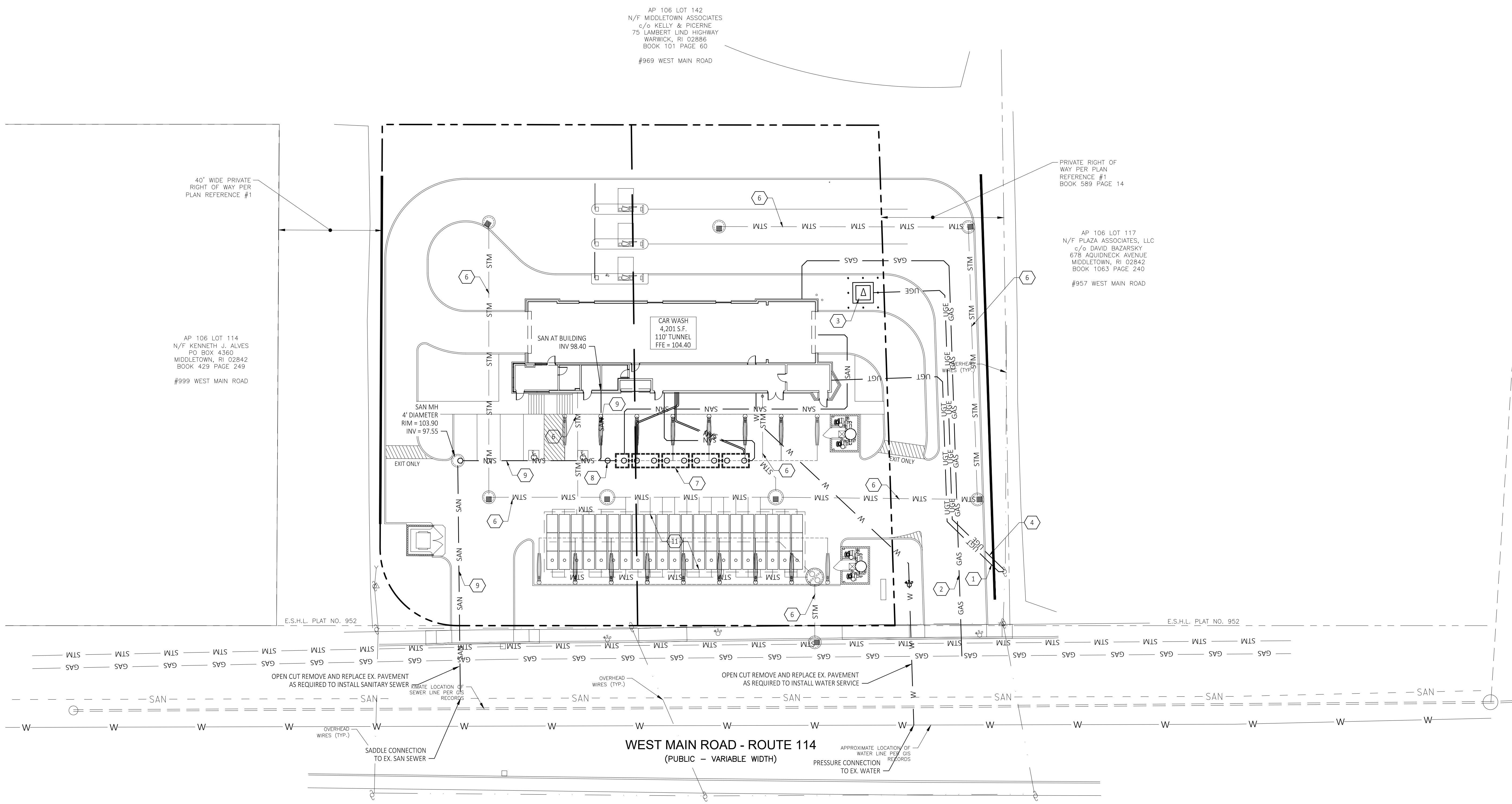
- PROPOSED UTILITY KEYED NOTES**
- TELECOMMUNICATION SERVICE.
  - NATURAL GAS SERVICE.
  - GENERAL CONTRACTOR TO PROVIDE AND INSTALL TRANSFORMER PAD PER SERVICE PROVIDER SPECIFICATIONS RELATING TO LOCATION CONDUIT STUB-UP LOCATIONS, PAD SIZE AND OBSTRUCTION CLEARANCE.
  - ELECTRIC SERVICE
  - SITE LIGHT. SEE ARCHITECTURAL SHEETS AND SITE ELECTRICAL PLAN FOR CIRCUITING AND LIGHT POLE BASE DETAILS. SEE SITE PHOTOMETRIC PLAN.
  - STORM SEWER. SEE SHEET C1.31 FOR PIPE DIAMETER AND SLOPE.
  - WATER RECLAMATION SYSTEM. SEE ARCHITECTURAL AND PLUMBING PLANS.
  - SAMPLE BOX. SEE ARCHITECTURAL AND PLUMBING PLANS.
  - PROVIDE AND INSTALL 6" PVC SDR-26 SANITARY SERVICE AT 1% SLOPE WITH CLEANOUTS 5.0' OUTSIDE OF FOUNDATION AND AT EVERY HORIZONTAL AND VERTICAL BEND. TIE INTO EXISTING SANITARY LINE. MAKE CONNECTION TO EXISTING SANITARY LEAD PER MUNICIPAL STANDARDS.
  - PROVIDE AND INSTALL 3" DIP PIPE WATER SERVICE LINE (MIN. DEPTH 5.0'); PROVIDE 18" CLEARANCE AT ALL UTILITY CROSSINGS. MAKE CONNECTION AT EXISTING SERVICE LEAD PER MUNICIPAL STANDARDS.
  - SUBSURFACE SAND FILTER SYSTEM. SEE SHEET C1.32 FOR DETAILS.

AP 106 LOT 142  
N/F MIDDLETOWN ASSOCIATES  
c/o KELLY & PICERNE  
75 LAMBERT LIND HIGHWAY  
WARWICK, RI 02886  
BOOK 101 PAGE 60  
#969 WEST MAIN ROAD

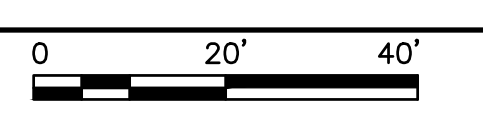
PRIVATE RIGHT OF WAY PER PLAN REFERENCE #1 BOOK 589 PAGE 14

AP 106 LOT 117  
N/F PLAZA ASSOCIATES, LLC  
c/o DAVID BAZARSKY  
678 AQUIDNECK AVENUE  
MIDDLETOWN, RI 02842  
BOOK 1063 PAGE 240  
#957 WEST MAIN ROAD

AP 106 LOT 114  
N/F KENNETH J. ALVES  
PO BOX 4360  
MIDDLETOWN, RI 02842  
BOOK 429 PAGE 249  
#999 WEST MAIN ROAD

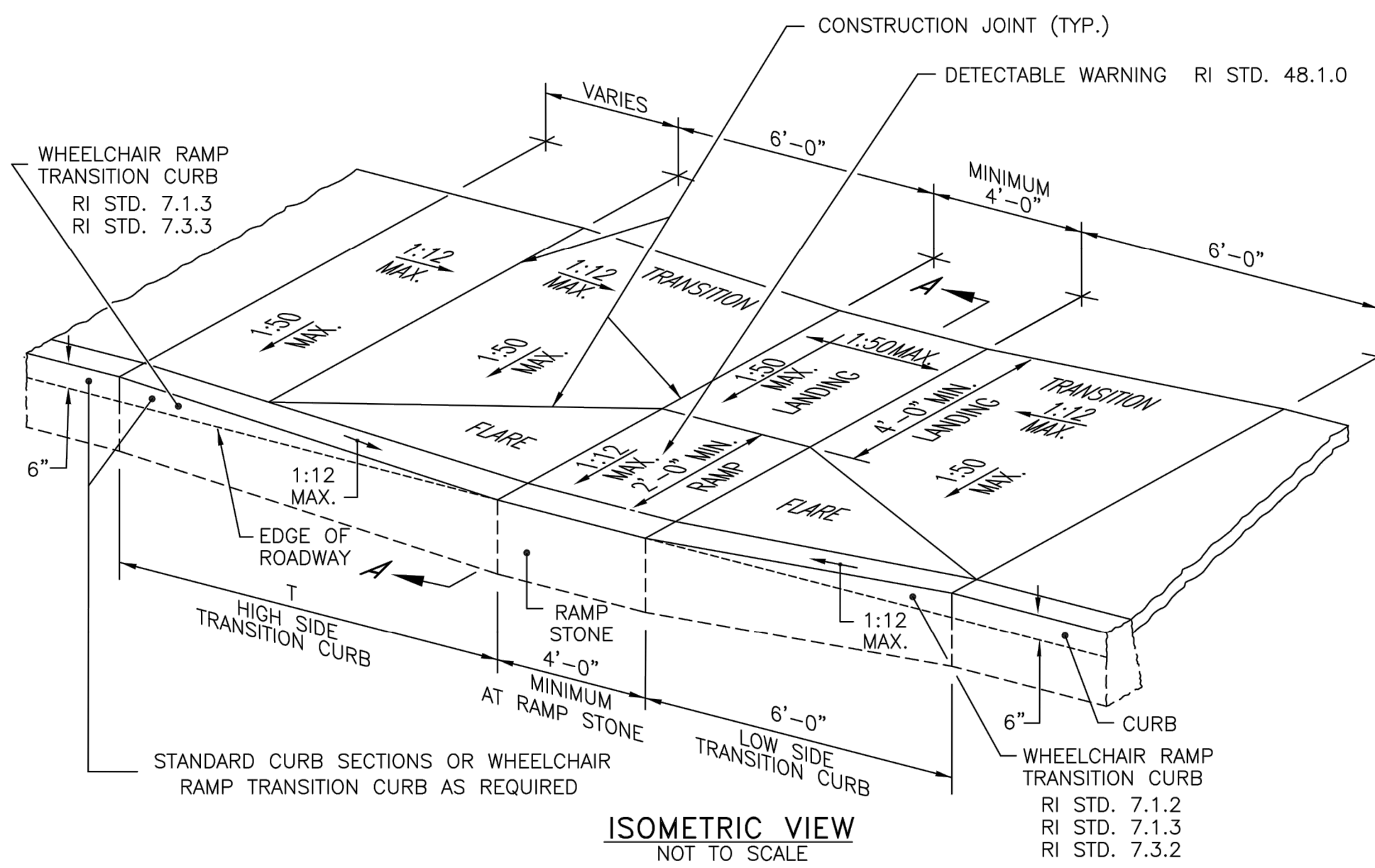


**UTILITY PLAN**  
SCALE: 1" = 20'-0"

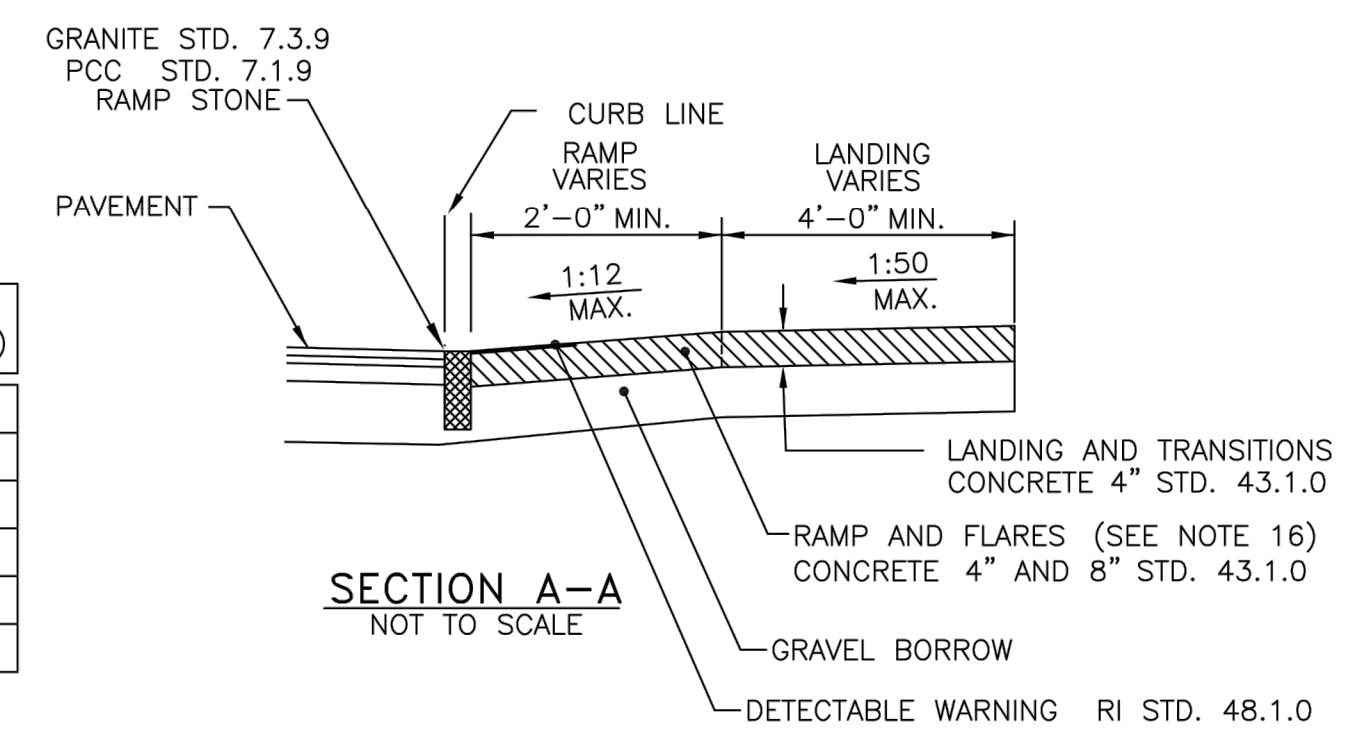








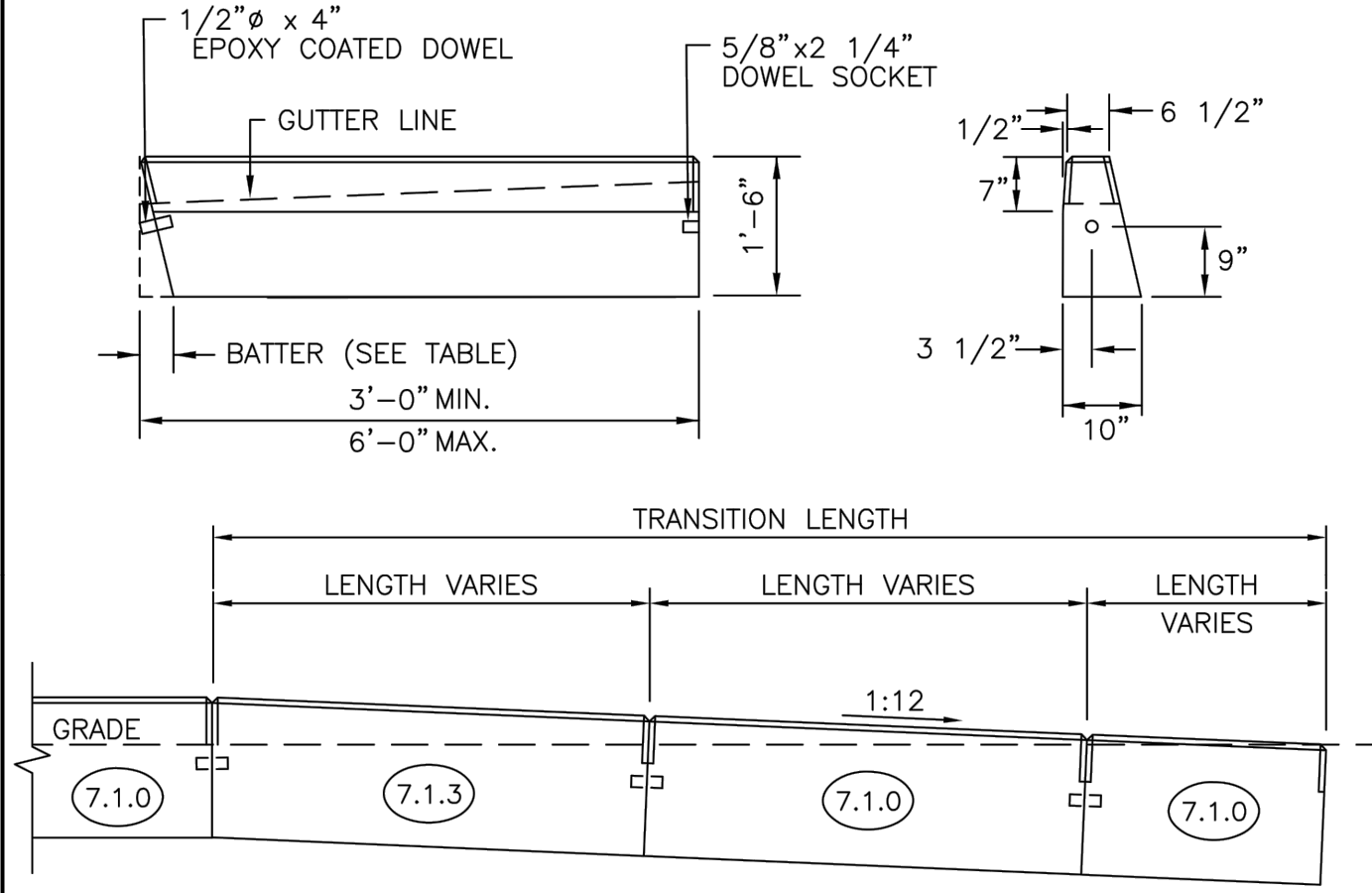
ISOMETRIC VIEW  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

ROADWAY PROFILE GRADE	T (FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
  - WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
  - AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
  - DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMP.
  - LOCATION OF WHEELCHAIR RAMP IS AS SHOWN ON CONTRACT DRAWINGS.
  - IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
  - AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
  - THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
  - WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
  - IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
  - THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
  - THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
  - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
  - ALL REQUIRED CUTTINGS OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
  - DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS
  - 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMP ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.



TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  - CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
  - EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
  - EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
  - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB

REVISIONS	NO.	BY	DATE
1	MLP	Mar 05	

JUNE 15, 1998  
 ISSUE DATE

R.I. STANDARD 7.1.3

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

WHEELCHAIR RAMP

REVISIONS	NO.	BY	DATE
1	MLP	Oct 2005	
2	MLP	Jun 2008	
3	MLP	Sep 2012	

JUNE 15, 1998  
 ISSUE DATE

R.I. STANDARD 43.3.0

1 ACCESSIBLE CURB RAMP

CS.02 SCALE: NONE

**sevan**  
ENGINEERING

Regional Office:  
37704 Hills Tech Drive  
Farmington Hills, MI 48331  
734.367.4445 Telephone

Corporate Office:  
3025 Highland Parkway, Suite 850  
Downers Grove, IL 60515  
info@sevan.com www.sevan.com

INTEGRITY | RESPECT | TEAMWORK | EXCELLENCE | CHARITY

REVISIONS

NO.	DATE	DESCRIPTION
0	03.03.2022	SITE PLAN REVIEW
1	06.30.2022	REVISED PER RIDEM AND RIDOT
2	08.05.2022	REVISED PER RIDOT
3	08.25.2022	REVISED PER RIDEM
4	09.29.2022	REVISED PER TOWN REVIEW

CONSULTANT

SEAL

TIMOTHY KRATZ  
No. 11620  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
10/03/2022

CUSTOMER

**Washville**  
Your Hometown Car Wash

PROJECT DESCRIPTION

WASHVILLE CARWASH

PROJECT LOCATION

991-995 W MAIN RD  
MIDDLETOWN, RI 02842  
(NEWPORT COUNTY)

SHEET TITLE

SITE DETAILS

SHEET MANAGEMENT

PROJECT NO.: MIDDLETOWN RI  
DATE: -  
CRITERIA: 110' TUNNEL  
PROJECT MANAGER: -

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SHEET NUMBER

C5.02

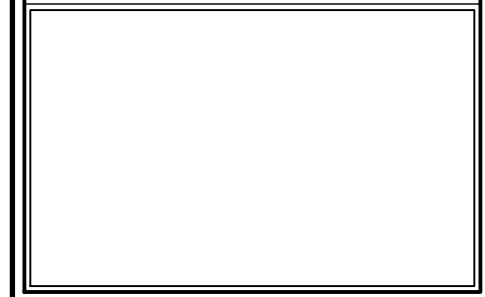
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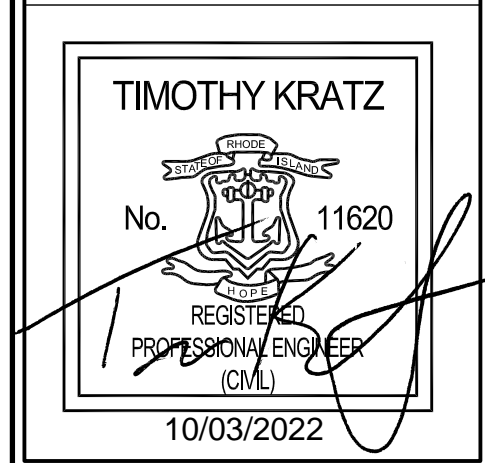
**REVISIONS**

NO.	DATE	DESCRIPTION
0	03.19.2022	SITE PLAN REVIEW
1	06.30.2022	REVISED PER RIDEM AND RIDOT
2	08.05.2022	REVISED PER RIDOT
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**CONSULTANT**



**SEAL**



**CUSTOMER**



**PROJECT DESCRIPTION**

**WASHVILLE CARWASH**

**PROJECT LOCATION**

**991-995 W MAIN RD  
MIDDLETOWN, RI 02842**  
(NEWPORT COUNTY)

**SHEET TITLE**

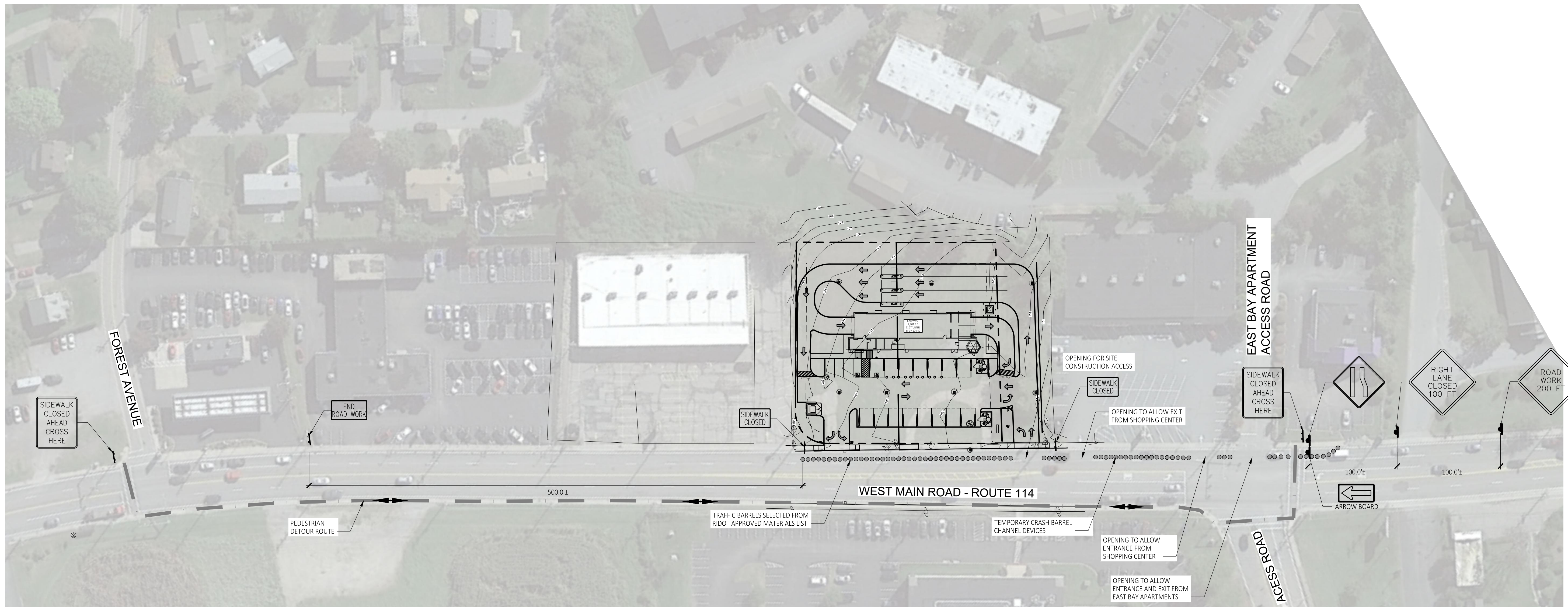
**MAINTENANCE OF  
TRAFFIC PLAN**

**SHEET MANAGEMENT**

PROJECT NO.:	MIDDLETOWN RI
DATE:	-
CRITERIA:	110' TUNNEL
PROJECT MANAGER:	-

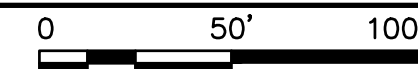
**SHEET NUMBER**

**C6.10**



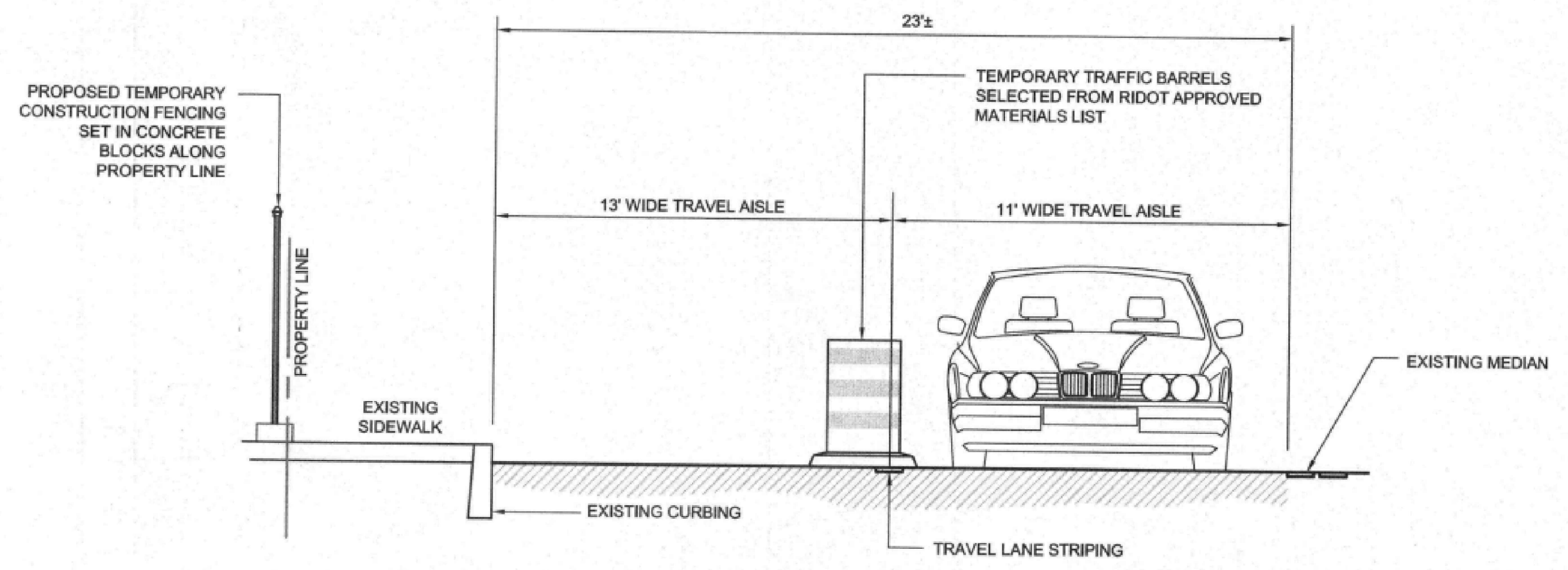
**MAINTENANCE OF TRAFFIC PLAN**

SCALE: 1" = 50'-0"



- NOTES:**
1. ALL TEMPORARY TRAFFIC CONTROL CONFIGURATIONS AND DEVICES, THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
  2. ALL TEMPORARY CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
  3. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED, SUCH AS AFTER ROADWAY UTILITY AND SIDEWALK WORK IS COMPLETE. WHEN WORK IS SUSPENDED FOR A SHORT PERIOD OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
  4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE PROJECT ENGINEER AS REQUIRED BY ROADWAY CONDITIONS.

- PUBLIC HEALTH AND SAFETY AND CONVENIENCE NOTES:**
1. CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
  2. THE CONTRACTOR AT HIS/HER EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM RUBBISH, DUST, NOISE, EROSION, ETC. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND REGULATIONS OF ALL APPLICABLE FEDERAL, STATE AND LOCAL AGENCIES.
  3. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SILT OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS AS NECESSARY.
  4. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
  5. TEMPORARY LANE CLOSURES SHALL ONLY BE PERMITTED BETWEEN THE HOURS OF 9:00 AM THROUGH 3:00 PM MONDAY THROUGH FRIDAY.
  6. NO WORK SHALL BE PERFORMED ON ANY FEDERAL HOLIDAY. ALL FRIDAY DAYTIME WORK ON ANY HOLIDAY WEEKEND MUST END BY 1 PM.



**CROSS SECTION OF NORTHBOUND WEST MAIN ROAD**