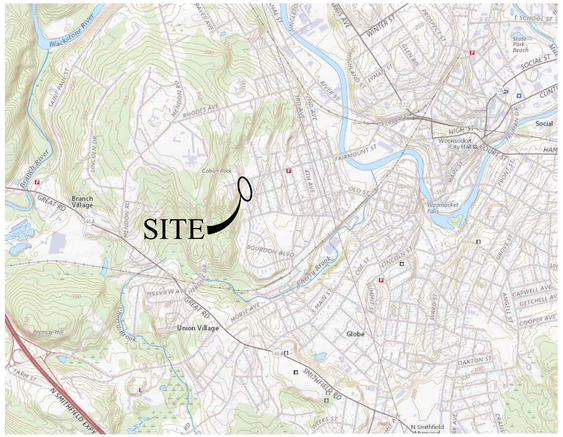
LOCUS MAP (NOT TO SCALE) ↑ N



STATE WIDE MAP

PRELIMINARY PLAN FOR PROPOSED

TENTH AVENUE

ROADWAY EXTENSION AND LAND DEVELOPMENT PROJECT

MAP 2, LOTS 44, 103, 158 & 203
TENTH AVE. AT CHAPEL STREET
WOONSOCKET, RHODE ISLAND

ZONING DISTRICT - R3

PROJECT TEAM

OWNERS:	CARLOS RODRIGUS 2170 MINERAL SPRING AVE. NORTH PROVIDENCE, RI 02911	LOT 103
	ACR INVESTMENTS, LLC 2170 MINERAL SPRING AVE. NORTH PROVIDENCE, RI 02911	LOT 158
	KYLE SEYBOTH 2170 MINERAL SPRING AVE. NORTH PROVIDENCE, RI 02911	LOT 201
	ELEVATOR PROPERTIES 2170 MINERAL SPRING AVE. NORTH PROVIDENCE, RI 02911	LOT 44
CIVIL:	D'AMICO ENGINEERING TECHNOLOGY, INC 2080 MINERAL SPRING AVE. NORTH PROVIDENCE, RI 02911 PHONE: 401-622-1470 FAX: 401-709-0201	
SURVEYOR:	OCEAN STATE PLANNERS, INC 1255 OAKLAWN AVENUE CRANSTON, RI 02920 PHONE: 401-762-2870 EMAIL: INFO@OSPLANNERS.COM	

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D'AMICO ENGINEERING TECHNOLOGY, INC
Civil · Transportation · Land Use
2080 Mineral Spring Ave., North Providence, RI 02911
(401) 622-1470 (401) 353-1190 fax www.dengineeringtec.com

DAVID M. D'AMICO
No. 6749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
2/29/24

TENTH AVENUE
ROADWAY EXTENSION PLAN
MAP 2, LOTS 44, 103, 158 & 203
TENTH AVE. AT CHAPEL STREET
WOONSOCKET, RHODE ISLAND

REVISIONS:

NO.	DATE.	DESCRIPTION

DESIGNED BY:	DMD
DRAWN BY:	
CHECKED BY:	DMD
DATE:	FEB., 2023
PROJECT NO:	23-0003-01

PERMIT PLANS, NOT FOR CONSTRUCTION

COVER PLAN

SHEET 1 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Prelim Plan 2-26-24.dwg Mar. 01, 2024 12:38pm

GENERAL NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

SITE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
2. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
3. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR.
5. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
6. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING.
7. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
8. ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR ENGINEER.
9. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
10. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
11. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
12. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
13. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
14. ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
16. REFER TO PLUMBING PLANS FOR CONTINUATION OF ALL UTILITIES WITHIN 5' (FIVE) FEET OF THE BUILDING.
17. ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

MISCELLANEOUS UTILITY NOTES:

1. PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATION'S WILL BE AUTHORIZED.
2. THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING AND SIGNS, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
3. OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THERE OPERATIONS.
5. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR CITY.
6. EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

DRAINAGE SYSTEM NOTES:

1. ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES
2. THE DESIGN ENGINEER MUST SUBMIT AN AS BUILT PLAN AND A CERTIFICATION TO THE CITY ENGINEER THAT THE CONSTRUCTION IS IN COMPLIANCE WITH THE DESIGN PLANS FOR ALL ELEMENTS OF THE STORM OR DRAINAGE SYSTEM PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

PROPOSED PAVEMENT STRUCTURE:

(SEE ROADWAY TYPICAL SECTION FOR PAVEMENT MAKEUP)

PROPOSED PAVEMENT STRUCTURE:
(DIAMOND HILL ROAD - RIDOT)
2" MODIFIED CLASS 12.5 HMA
3" CLASS 19 HMA
12" GRAVEL BORROW SUBBASE COURSE

ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS AND ON VERTICAL FACES.

LAYOUT NOTE:

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION DURING ALL CONSTRUCTION ACTIVITIES WITHIN ROADWAY RIGHT-OF-WAY.
2. ALL TRAFFIC CONTROL, TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), 2009 EDITION, INCLUDING ALL REVISIONS.
3. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
4. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE STATE OR CITY RIGHT-OF-WAY.
5. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC, SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION. INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.
6. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

DRAINAGE AND SUBSURFACE DRAINAGE SYSTEM MAINTENANCE SCHEDULE:

UPON PROJECT COMPLETION, THE PROPERTY OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE PLAN AND SCHEDULE:

1. CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONAL TO ENSURE PROPER OPERATION. ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
   * DAMAGE TO GRATE/ COVERS
   * EVIDENCE OF STANDING WATER
   * DEBRIS REMOVAL
   * STRUCTURAL ALIGNMENT/ INTEGRITY
   * OIL/WATER SEPARATORS
2. IF SEDIMENT OR ORGANIC DEBRIS BUILD-UP HAS LIMITED THE INFILTRATION CAPABILITIES OF THE UNDERGROUND INFILTRATION CHAMBERS OR TRENCHES TO BELOW THE DESIGN RATE THE SYSTEM MUST BE REMOVED AND RE-CONSTRUCTED. THE SYSTEMS BOTTOM SHOULD BE RESTORED ACCORDING TO ORIGINAL DESIGN SPECIFICATIONS.
3. SEDIMENT REMOVAL: ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS.
4. THE PROPERTY OWNER IS RESPONSIBLE FOR ANY SOIL AND GROUNDWATER CONTAMINATION RESULTING FROM THE USE OF THE STORMWATER RUNOFF SUBSURFACE DRAINAGE SYSTEM.

WATER NOTES:

1. ALL INSTALLATIONS, JOINTS, CONSTRUCTION METHODS AND MATERIALS SHALL BE ACCORDING TO THE WOONSOCKET WATER DEPARTMENT REQUIREMENTS, AWWA STANDARDS AND GOVERNMENTAL REQUIREMENTS.
2. INSTALLATION OF ALL WATER CONVEYANCES, MAINS, PIPES OR LINES SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION'S INSTALLATION MANUAL AND ANSI/AWWA C600 AND ALL OTHER REQUIREMENTS OF THE WOONSOCKET WATER DEPARTMENT.
3. WATER PIPES SHALL TYPICALLY BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM SEWER PIPES, AND AT A MINIMUM DEPTH OF COVER EQUAL TO 5'-0". WHERE A NEW WATER PIPE IS LESS THAN 18 INCHES CLEAR DISTANCE ABOVE A SEWER OR WHERE A WATER PIPE PASSES BENEATH A SEWER OR STORM DRAIN, ENCASE THE SEWER OR DRAIN IN 6" OF CONCRETE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING WATER PIPE.
4. ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS; SUCH AS PIPE, THRUST BLOCKS, FITTINGS, CASTINGS, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. THIS SUBMISSION SHALL INCLUDE MANUFACTURER'S LITERATURE, SHOP DRAWINGS, PROPOSED CONSTRUCTION METHODS, ETC.
5. WATER LINE TRENCH TO BE AWWA TYPE 5 A METALIZED DETECTABLE IDENTIFICATION TAPE 2" IN WIDTH, BLUE IN COLOR AND PRINTED WITH "CAUTION WATERLINE BURIED BELOW" SHALL BE UTILIZED OVER ALL MAINS. TAPE SHALL BE SET AT APPROXIMATELY 1' BELOW FINISHED GRADE.
6. THE CONTRACTOR SHALL RECEIVE VERIFICATION FROM THE ENGINEER AS TO THE APPROPRIATE SIZE OF THE DOMESTIC WATER AND FIRE PROTECTION LINE SHOWN ON THE PLANS PRIOR TO ORDERING WATER PIPE RELATED ITEMS.
7. ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, GRAVEL, STONE, DRAINAGE PIPE AND RELATED STRUCTURES, WATER, SEWER, AND DRAIN LINE INSTALLATION, PAVEMENT SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION AMENDED AUGUST 2013 WITH ALL REVISIONS AND LATEST ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
8. SPECIFIC BENDS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BENDS AS NECESSARY TO INSTALL THE PIPE AT THE REQUIRED DEPTH AND ALIGNMENT.
9. INSPECTION OF ALL INSTALLATIONS SHALL BE CONDUCTED TO ENSURE COMPLIANCE WITH THE RULES AND REGULATIONS OF THE WOONSOCKET WATER DEPARTMENT. WOONSOCKET WATER EMPLOYEES SHALL BE GIVEN FULL ACCESS TO THE PROJECT AT ALL TIMES FOR INSPECTION OR OBSERVATION OF CONSTRUCTION IN PROGRESS AS DEEMED NECESSARY BY THE AUTHORITY. FAILURE TO CONSTRUCT THE NEW EXTENSION OF THE SYSTEM AS PER THE APPROVED DESIGN DRAWINGS OR WOONSOCKET WATER DEPARTMENT'S RULES AND REGULATIONS WILL CAUSE IMMEDIATE CESSATION OF ALL CONSTRUCTION WORK. INSPECTION FEES MUST BE PAID IN FULL PRIOR TO COMMENCING INSTALLATION WORK.

RIDOT

1. ALL WORK TO BE DONE WITHIN THE STATE RIGHT-OF-WAY SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION AMENDED AUGUST 2013 WITH ALL REVISIONS AND LATEST ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
2. A SEPARATE RIDOT UTILITY PERMIT APPLICATION AND APPROVAL IS REQUIRED FOR ANY UTILITY WORK (INCLUDING SEWER, WATER, GAS, ELECTRIC, ETC.) WITHIN THE STATE RIGHT-OF-WAY TO BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND

- EXISTING PROPERTY LINE
- ABUTTING PROPERTY LINE
- BUILDING SETBACK LINE
- WETLAND EDGE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING STONE WALL
- IRON ROD
- DRILL HOLE
- CONCRETE BOUND
- EXISTING CURB
- CHAIN LINK FENCE
- DRAIN LINE
- DRAINAGE MANHOLE
- CATCH BASIN
- UTILITY POLE
- OVERHEAD WIRES
- UNDERGROUND ELECTRIC
- GAS LINE
- WATER LINE
- WATER SHUT OFF VALVE
- GAS VALVE
- SEWER
- SMH
- N/F — NOW OR FORMERLY
- LIMIT OF DISTURBANCE
- TP — SOIL EVALUATION
- BUILDING DOOR LOCATION
- CUT AND MATCH LINE (SAW CUT)
- HANDICAPPED PARKING
- STOP SIGN
- ELECTRIC SIGN
- PAINTED TRAFFIC ARROW
- LIGHT POLE
- CLEAN OUT
- x 308.5 — SPOT GRADE
- AD — ASPHALT DRIVE
- GD — GRAVEL DRIVE
- T — APPROXIMATE CELL TOWER

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DAVID M. D'AMICO
No. 6749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/8/24

TENTH AVENUE ROADWAY EXTENSION PLAN

MAP 2, LOTS 44, 103, 158 & 201
TENTH AVE. AT CHAPEL STREET
WOONSOCKET, RHODE ISLAND

REVISIONS:

NO.	DATE.	DESCRIPTION
1	4/8/24	CITY REVIEW COMMENTS

DESIGNED BY:	DMD
DRAWN BY:	
CHECKED BY:	DMD
DATE:	APRIL, 2024
PROJECT NO:	23-0003-01

PERMIT PLANS, NOT FOR CONSTRUCTION

GENERAL NOTES AND LEGEND

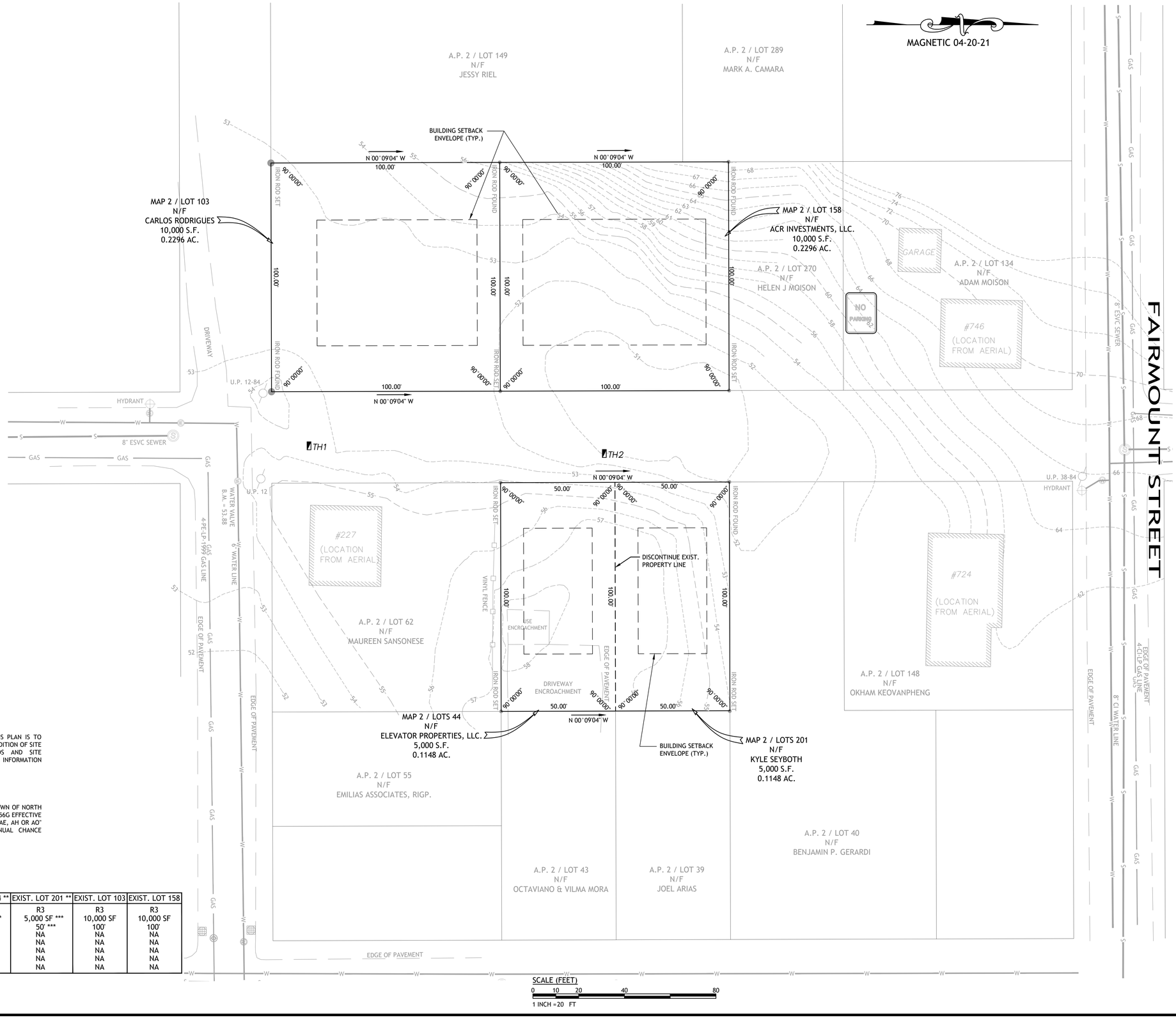
SHEET 2 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Prelim Plan 4-5-24.dwg Apr. 08, 2024 12:38pm

CLASS I PROPERTY LINE AND CLASS III TOPOGRAPHIC SURVEY CONDUCTED BY:

OCEAN STATE PLANNERS, INC.
1255 OAKLAWN AVENUE
CRANSTON, RI 02920

PHONE: 401-463-9696
FAX: 401-463-9039



NOTES:

1. INFORMATION BY DETEC PROVIDED ON THIS EXISTING CONDITIONS PLAN IS TO AUGMENT THE BASE SURVEY FOR PERMITTING AND DESIGN WITH THE ADDITION OF SITE SPECIFIC FEATURES AND SITE UTILITIES TAKEN FROM RECORDS AND SITE ON-THE-GROUND MEASUREMENTS. THE PE STAMP IS AFFIXED FOR THIS INFORMATION ONLY.

2. DEMOLITION INFORMATION DEVELOPED BY DETEC.

3. BASED ON FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF NORTH SMITHFIELD, COMMUNITY-PANEL NUMBER 0156G, MAP NUMBER 44007C0156G EFFECTIVE DATE MARCH 2, 2009, THE SITE IS LOCATED OUTSIDE FLOOD ZONES "A, AE, AH OR AO" OTHER AREAS (AREAS DETERMINED TO BE INSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN).

ZONING INFORAMTION TABLE:

ZONING CRITERIA	REQUIRED	EXIST. LOT 44 **	EXIST. LOT 201 **	EXIST. LOT 103	EXIST. LOT 158
ZONING DISTRICT	R3	R3	R3	R3	R3
MINIMUM LOT AREA 7,000 SF - 9,000 SF *	70' - 80' *	5,000 SF ***	5,000 SF ***	10,000 SF	10,000 SF
MINIMUM LOT FRONTAGE	20'	50' ***	50' ***	100'	100'
MIN. FRONT YARD SETBACK	10'	NA	NA	NA	NA
MIN. SIDE YARD SETBACK	25'	NA	NA	NA	NA
MIN. REAR YARD SETBACK	30'	NA	NA	NA	NA
MAXIMUM BUILDING HEIGHT	50%	NA	NA	NA	NA
MAXIMUM LOT COVERAGE		NA	NA	NA	NA

* TWO FAMILY DWELLINGS
** EXISTING NON-CONFORMING LOT OF RECORD
*** EXISTING NON-CONFORMING DIMENSION OF RECORD

SCALE (FEET)
0 10 20 40 80
1 INCH = 20 FT

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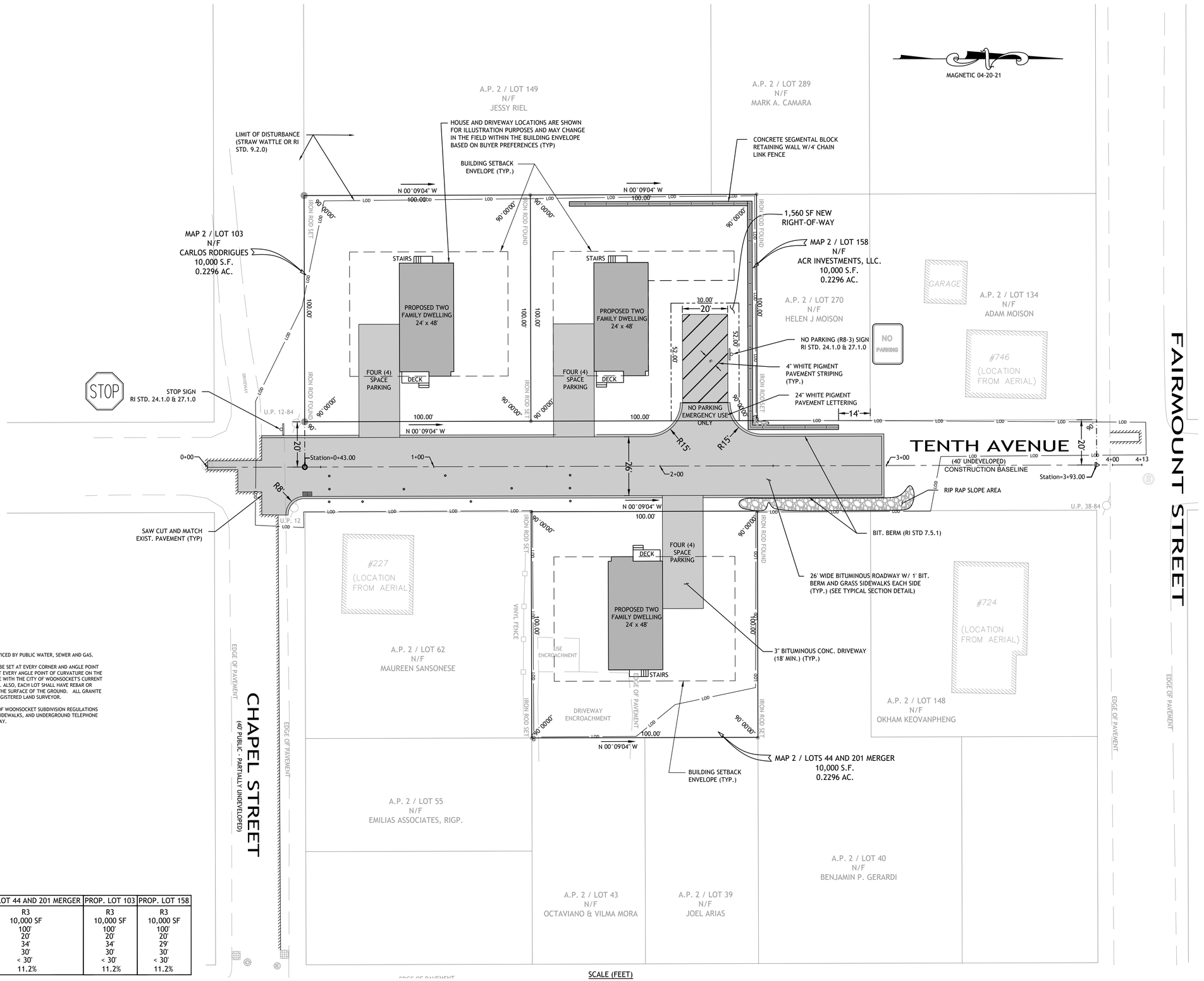
EXISTING CONDITIONS AND DEMO PLAN

SHEET 3 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Prelim Plan 4-5-24.dwg Apr. 08, 2024 12:54pm



GENERAL SITE NOTES

1. ALL DWELLINGS ARE TWO FAMILY HOMES TO BE SERVICED BY PUBLIC WATER, SEWER AND GAS.
2. MONUMENTS (GRAINTE BOUNDARY MARKERS) SHALL BE SET AT EVERY CORNER AND ANGLE POINT ON THE BOUNDARY LINE OF THE SUBDIVISION AND AT EVERY ANGLE POINT OF CURVATURE ON THE PROPOSED STREET RIGHT-OF-WAY IN CONFORMANCE WITH THE CITY OF WOONSOCKET'S CURRENT LAND DEVELOPMENT AND SUBDIVISION REGULATIONS. ALSO, EACH LOT SHALL HAVE REBAR OR EQUIVALENT CORNER MARKER PLACED FLUSH WITH THE SURFACE OF THE GROUND. ALL GRANITE BOUNDS AND/OR MARKERS ARE TO BE SET BY A RI REGISTERED LAND SURVEYOR.
3. NEW ROADWAY EXTENSION IS TO BE BUILT TO CITY OF WOONSOCKET SUBDIVISION REGULATIONS WITH 26' OF PAVEMENT, BITUMINOUS BERM, GRASS SIDEWALKS, AND UNDERGROUND TELEPHONE AND ELECTRIC LINES WITHIN A 40' WIDE RIGHT OF WAY.

ZONING INFORAMTION TABLE:

ZONING CRITERIA	REQUIRED	PROP. LOT 44 AND 201 MERGER	PROP. LOT 103	PROP. LOT 158
ZONING DISTRICT	R3	R3	R3	R3
MINIMUM LOT AREA 7,000 SF - 9,000 SF *		10,000 SF	10,000 SF	10,000 SF
MINIMUM LOT FRONTAGE 70' - 80' *		100'	100'	100'
MIN. FRONT YARD SETBACK	20'	20'	20'	20'
MIN. SIDE YARD SETBACK	10'	34'	34'	29'
MIN. REAR YARD SETBACK	25'	30'	30'	30'
MAXIMUM BUILDING HEIGHT	30'	< 30'	< 30'	< 30'
MAXIMUM LOT COVERAGE	50%	11.2%	11.2%	11.2%

* TWO FAMILY DWELLINGS

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TENTH AVENUE
ROADWAY EXTENSION PLAN
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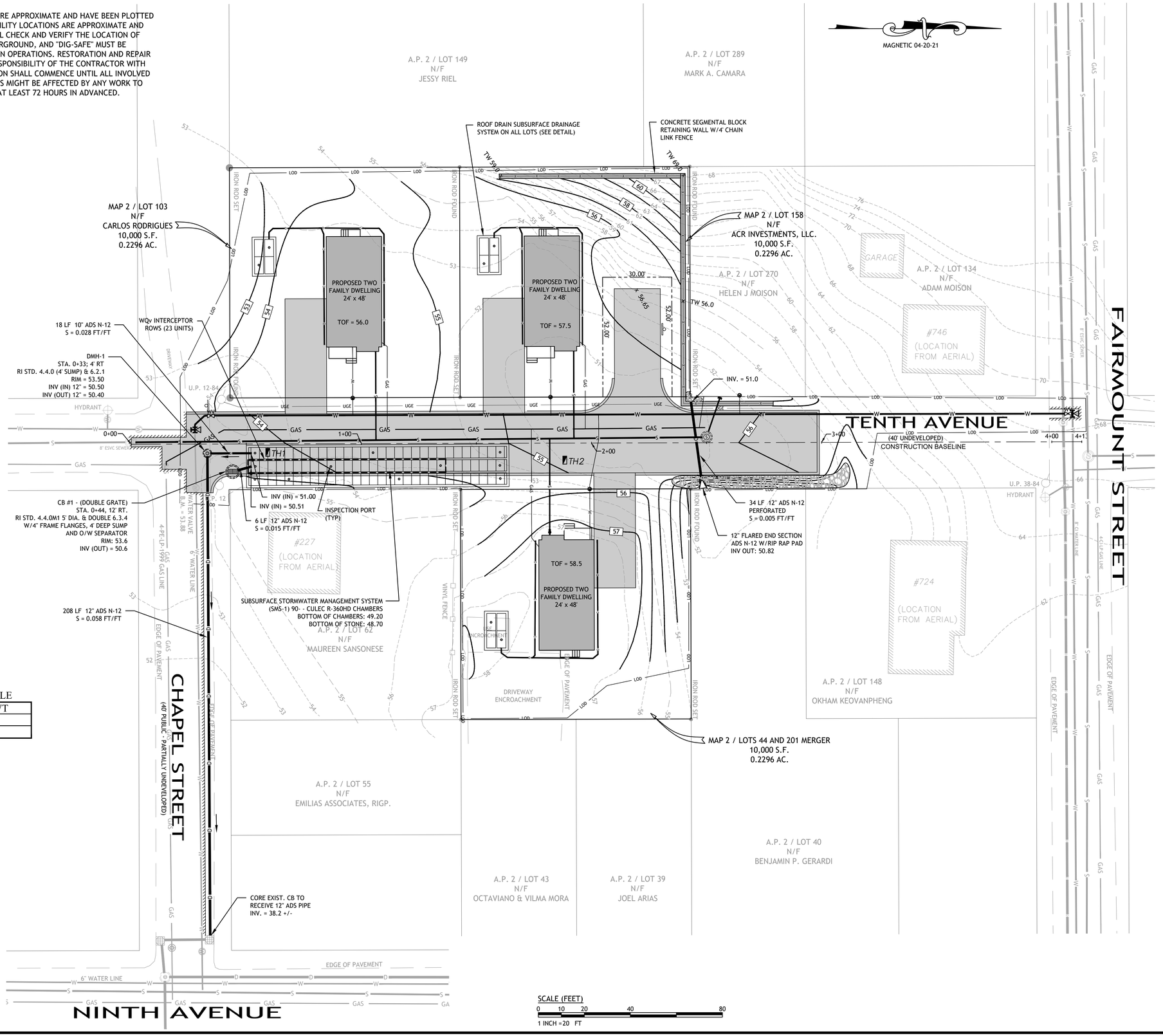
PERMIT PLANS, NOT FOR CONSTRUCTION

SITE PLAN

SHEET 4 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Prelim Plan 4-5-24.dwg Apr. 08, 2024 12:39pm

NOTE:
THE LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCED.



TEST HOLE DATA TABLE

TH	ELEV	SHGWT
1	53.5	47.5
2	51.0	45.0

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(401) 622-1470 (401) 353-1190 fax www.dengineeringtec.com

DAVID M. D'AMICO
No. 16749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/8/24

TENTH AVENUE
ROADWAY EXTENSION PLAN
MAP 2, LOTS 44, 103, 158 & 201
TENTH AVE. AT CHAPEL STREET
WOONSOCKET, RHODE ISLAND

REVISIONS:

NO.	DATE.	DESCRIPTION
1	4/8/24	CITY REVIEW COMMENTS

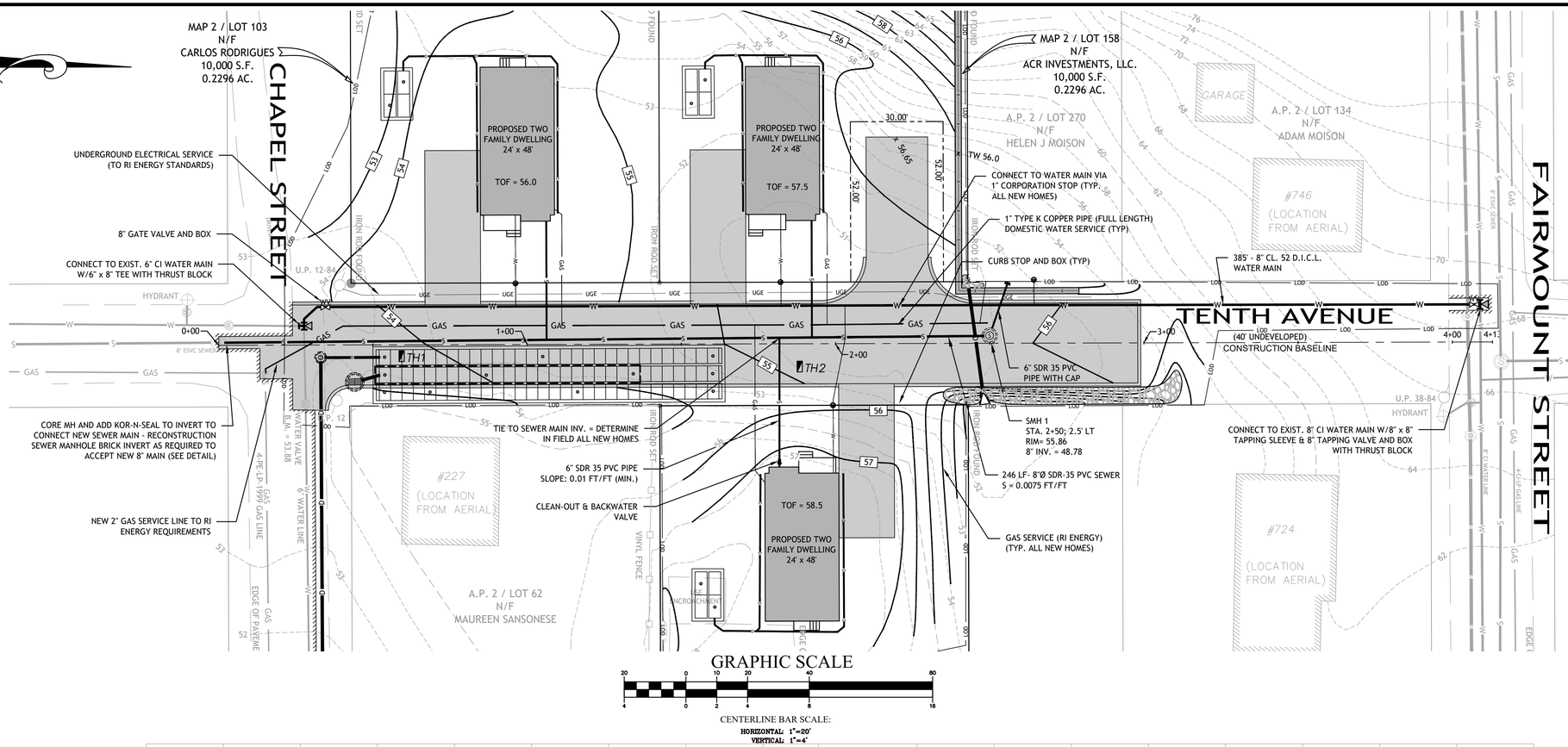
DESIGNED BY:	DMD
DRAWN BY:	
CHECKED BY:	DMD
DATE:	APRIL, 2024
PROJECT NO:	23-0003-01

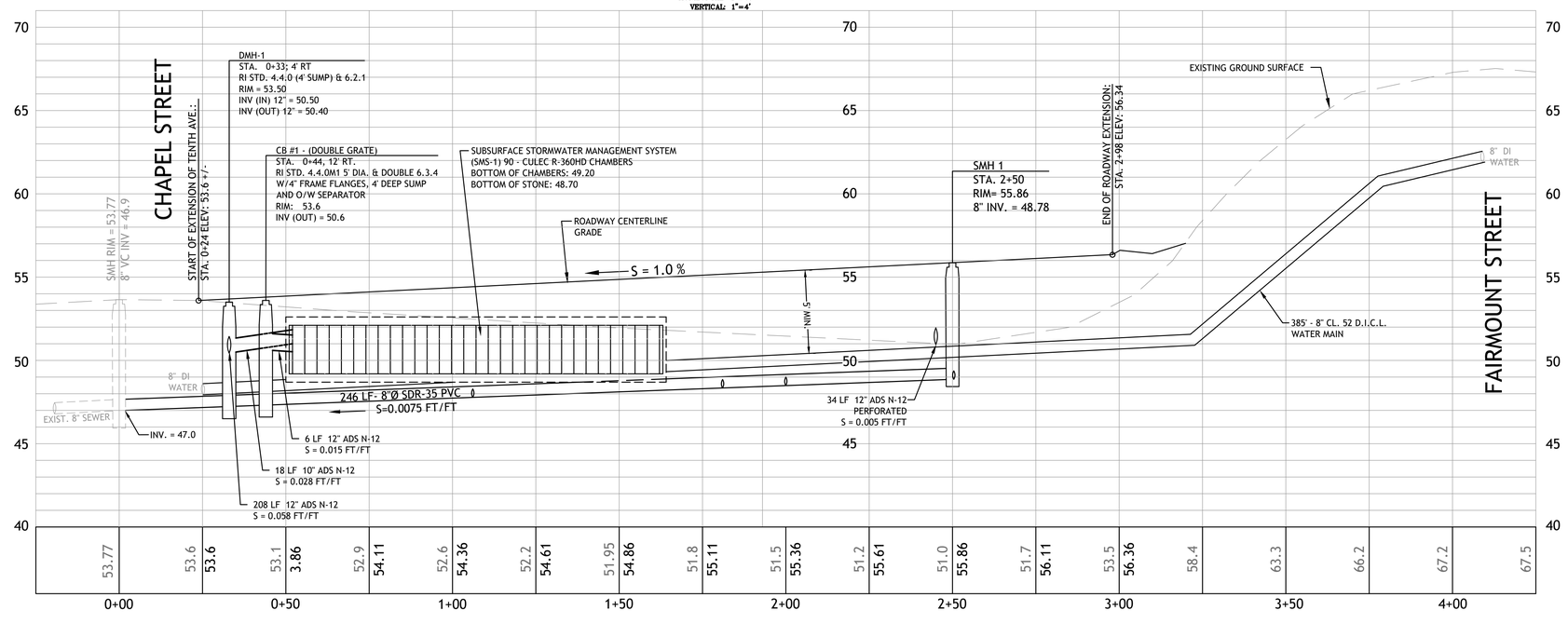
PERMIT PLANS, NOT FOR CONSTRUCTION

GRADING AND DRAINAGE PLAN

SHEET 5 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Prelim Plan 4-5-24.dwg Apr. 08, 2024 12:41pm





TENTH AVENUE PROFILE VIEW

LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL *DIGSAFE* AT *1-888-DIG-SAFE* *1-888-344-7233*

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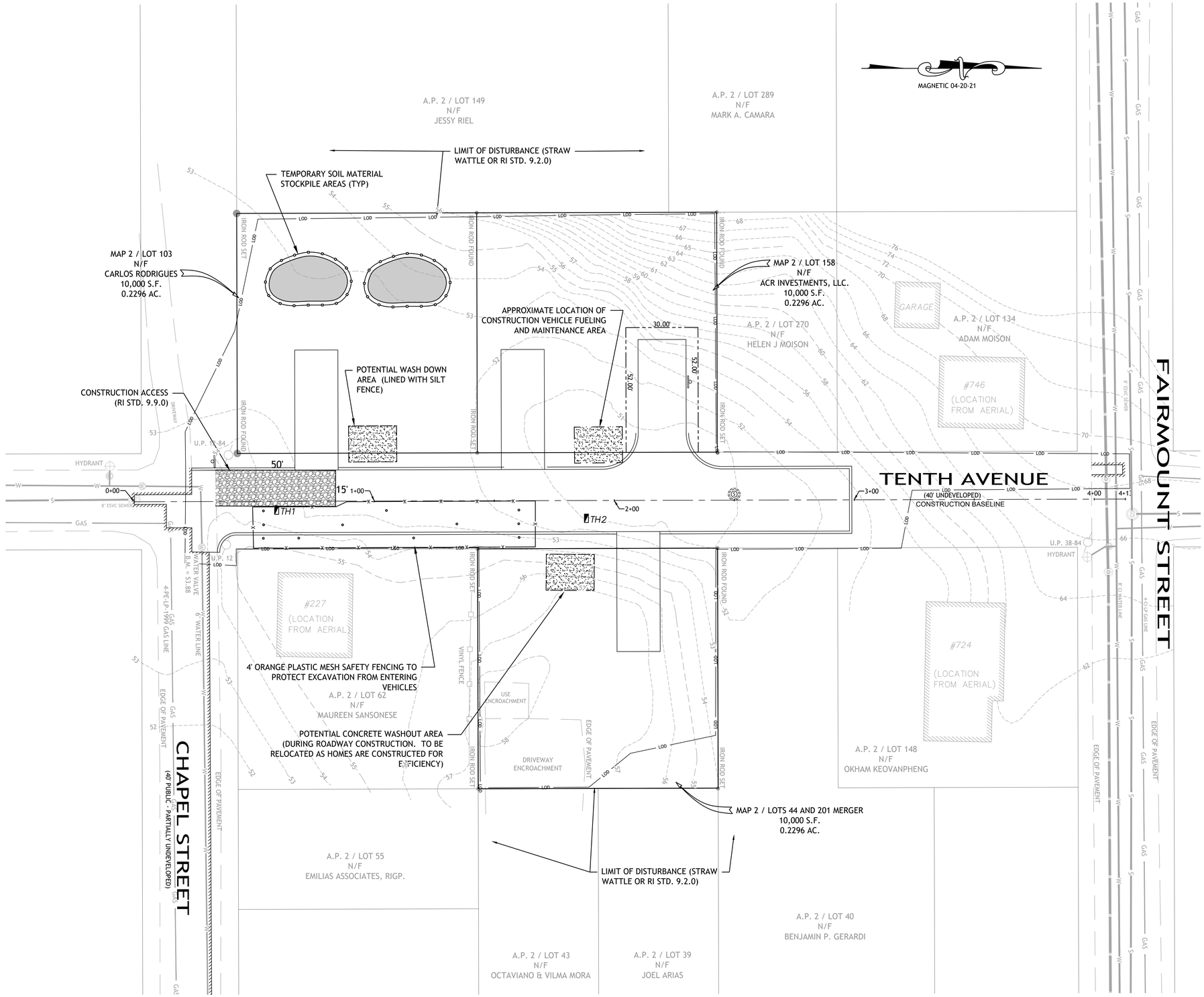
PLAN AND PROFILE PLAN

SHEET 6 OF 11



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PERMIT PLANS, NOT FOR CONSTRUCTION

SOIL EROSION AND SEDIMENT CONTROL PLAN

SHEET 7 OF 11

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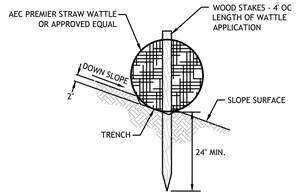
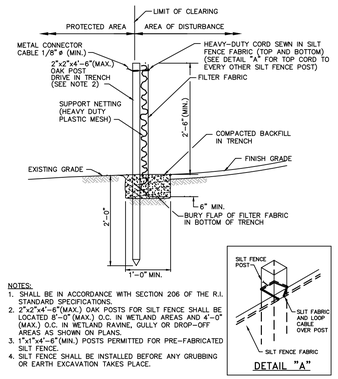
SCALE (FEET)
0 10 20 40 80
1 INCH = 20 FT



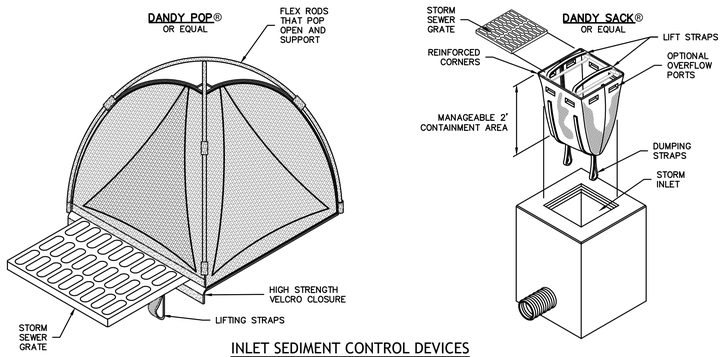
STRAW WATTLE STAKE DETAIL ON SOIL

N.T.S.



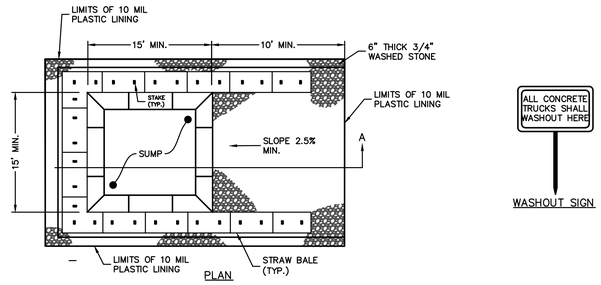
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6"(MIN.) POSTS PERMITTED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

694 **SILT FENCE DETAIL** R.I. STANDARD 9.2.0



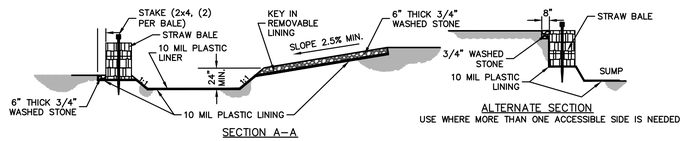
INLET SEDIMENT CONTROL DEVICES

NOT TO SCALE



PLAN

WASHOUT SIGN



SECTION A–A

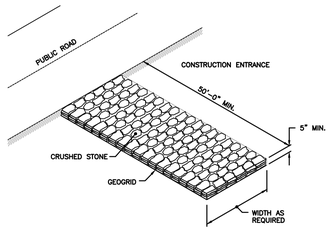
ALTERNATE SECTION
USE WHERE MORE THAN ONE ACCESSIBLE SIDE IS NEEDED

NOTES:

1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND CONTAINED TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 12" OF FREEBOARD UNLESS A NEW FACILITY IS CONSTRUCTED. WASHOUT AREA SHALL BE EMPTIED AT THIS TIME AND DISPOSED OF IN ACCORDANCE WITH ALL REGULATIONS.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN AT 95% FULL CAPACITY.

CONCRETE WASHOUT AREA

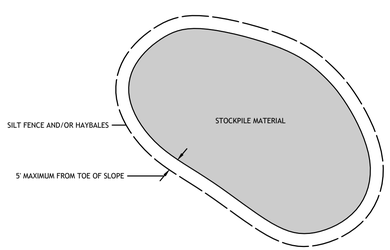
(NOT TO SCALE)



NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

CONSTRUCTION ACCESS R.I. STANDARD 9.9.0

N.T.S.



STOCKPILE DETAIL

N.T.S.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE HAYBALE, WATTLE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
2. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
3. ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE OUTLET PROTECTION (R.I. STD. 9.1.0), OR STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
4. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
5. ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
6. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
7. THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE ENGINEER OR OWNER'S REPRESENTATIVE WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
9. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1989, REVISED 2014.

BMP MAINTENANCE SCHEDULE

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONSTRUCTION EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE INFILTRATION TRENCH AND/OR SUBSURFACE CHAMBER AREAS TO MINIMIZE COMPACTION OF THE SOIL.
3. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER DRAINAGE SYSTEMS AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO ALL PIPES, INTAKE AND DISCHARGE STRUCTURES (INCLUDING RIP-RAP SPLASH PADS), CATCH BASIN SUMPS, AND MANHOLES.
4. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, FOR STRUCTURAL INTEGRITY, STABILITY AND EVIDENCE OF SOIL EROSION, SHALL INCLUDE MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF ½ INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BIMONTHLY IF NO RAINFALL EVENT OCCURS.
5. UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION, REPAIR ANY VEGETATIVE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, (SEEDING, PLANTING, ETC.) WHERE REQUIRED, AND REPAIR (OR REMOVE WHERE APPROPRIATE) ANY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. AFTER PERMANENT SOIL STABILIZATION ON THE ENTIRE SITE HAS OCCURRED, ALL TEMPORARY CONTROL MEASURES MUST BE REMOVED.
6. AFTER THE COMPLETION OF PROJECT CONSTRUCTION AND THE FINAL STABILIZATION OF THE ENTIRE SITE, THE INSPECTION AND MAINTENANCE OF ALL STORMWATER FACILITIES MUST BE PERFORMED.
7. REPLANTING, REGRADING, OR OTHER REPAIRS NEEDED AS A RESULT OF SOIL EROSION AND SEDIMENTATION PROCESSES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE ENTIRE SYSTEM.
8. ANY TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM ANY WETLAND AREAS, SWALE, AND PIPE OUTLETS.
9. ALL DISTURBED AREAS WILL BE LOAMED AND SEEDED UNLESS DIRECTED OTHERWISE.

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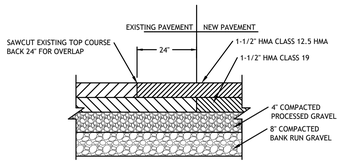
PERMIT PLANS, NOT FOR CONSTRUCTION

SOIL EROSION CONTROL DETAILS

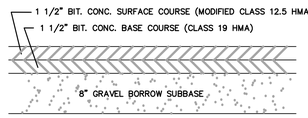
SHEET 8 OF 11



NOTE:
PROVIDE BITUMINOUS TACK COAT AT ALL SAWCUTS.

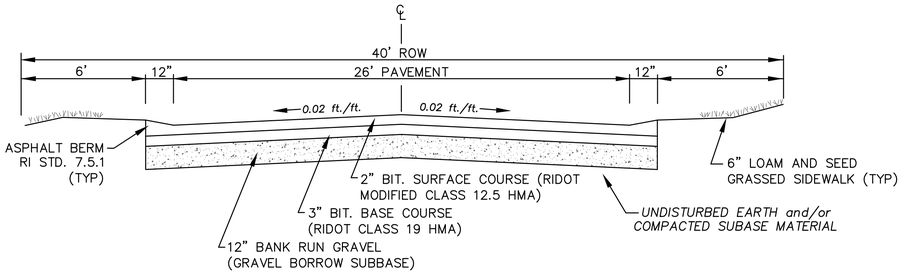
PAVEMENT CUT & MATCH AT CHAPEL STREET

NOT TO SCALE



PAVEMENT CROSS SECTION - DRIVEWAYS

NOT TO SCALE



ROADWAY CROSS-SECTION

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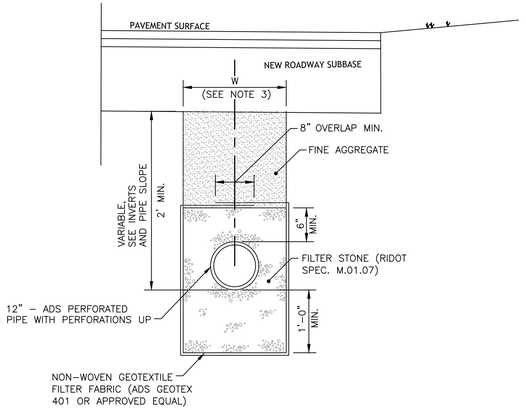
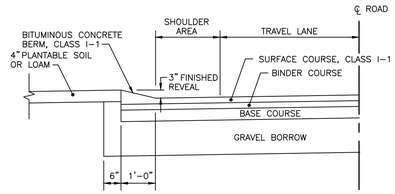


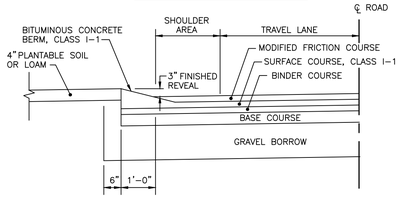
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 703 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM PIPE DIAMETER 1'–0".
3. TRENCH WIDTHS: PIPE ≤ 36" = O.D.+ 24" EACH SIDE
4. DISTANCE DIMENSIONS ARE GIVEN TO THE OUTSIDE DIAMETER OF PIPE.
5. SEE CONSTRUCTION PLANS FOR LOCATION.

INFILTRATION DRAIN DETAIL

N.T.S.



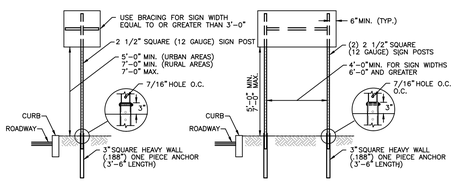
CONSTRUCTION METHOD A



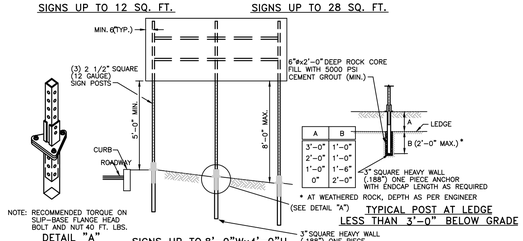
CONSTRUCTION METHOD B

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. BITUMINOUS BERM CAN BE PLACED AT THE SAME TIME THAT THE SURFACE COURSE LAYER IS PLACED ON THE PROJECT ROADWAY, OR IT CAN BE INSTALLED IN A SEPARATE OPERATION.

BITUMINOUS BERM — R.I. STANDARD 7.5.1



SIGNS UP TO 12 SQ. FT. SIGNS UP TO 28 SQ. FT.



NOTE: RECOMMENDED TORQUE ON SLIP-BASE FLANGE HEAD BOLT AND NUT 40 FT. LBS.

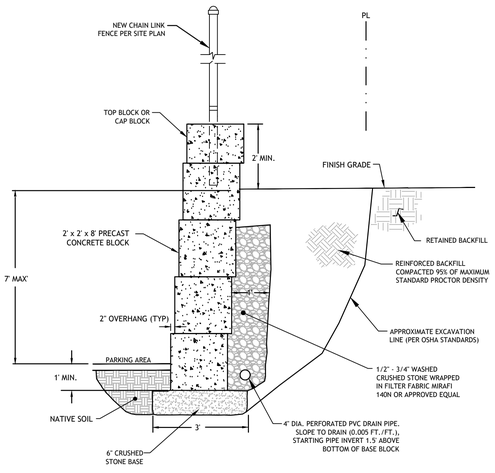
DETAIL "A"

TYPICAL POST AT LEDGE LESS THAN 3'–0" BELOW GRADE

SIGNS UP TO 8'–0"Wx4'–0"H

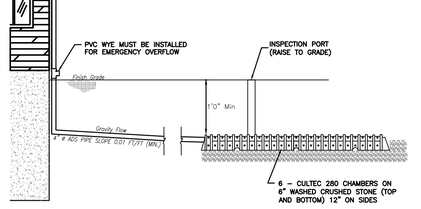
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. SIGN SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH AASHTO SPECIFICATIONS FOR A 10-YEAR MEAN WIND RECURRENCE INTERVAL.
3. FOR INSTALLATION IN GROUND OR BITUMINOUS CONCRETE DRIVE SIGN POST ANCHOR TO REQUIRED DEPTH SO THAT THE HOLE WILL MATCH TO SIGN POST ABOVE GROUND FOR THE BOLT CONNECTION. INSERT SIGN POST AND BOLT IN PLACE.
4. FOR INSTALLATION IN CONCRETE SEE STD. 25.3.0 AND FOLLOW THE PROCEDURE IN NOTE 2.
5. FOR INSTALLATION IN LEDGE LESS THAN 3'–0" BELOW GRADE SEE DETAIL ABOVE.
6. EDGE OF SIGN SHALL BE 1'–6" (MIN.) FROM EDGE OF CURB IN URBAN AREAS AND 6'–0" (MIN.) FROM EDGE OF CURB IN EDGE OF CURB IN RURAL AREAS.
7. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET.
9. STEEL POSTS SHALL CONFORM TO ASTM–A361, FY= 55 KSI. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 12 GAUGE (.105" U.S.S. GAUGE) COLD–ROLLED CARBON STEEL SHEETS WHICH HAVE BEEN ZINC COATED (1.25 OZ.) CONFORMING TO ASTM–A525, CAREFULLY ROLLED TO SIZE AND WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARED TO AGREE WITH CORNER RADII. STANDARD CORNER RADIUS SHALL BE 3/32" PLUS OR MINUS 1/64".
10. ALL BOLTS SHALL CONFORM TO ASTM–A307, CLASS A.
11. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM–A153.
12. FOR SIGNS GREATER THAN 32 SQ. FT., REFER TO STD. 30.1.0, 30.1.1, 30.2.0, 30.2.1, 30.3.0, 30.3.1, 30.4.0, 30.4.1, 30.4.2 AND 30.4.3.

SIGN POST SELECTION AND INSTALLATION DETAILS SQUARE POST (SIGNS UP TO 8'–0"Wx4'–0"H) — R.I. STANDARD 24.1.0



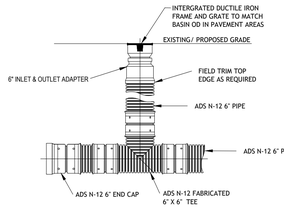
TYPICAL SECTION - RETAINING WALL (SOUTH WALL)

PRECAST CEMENT CONCRETE BLOCK UNIT
NONE SCALE:



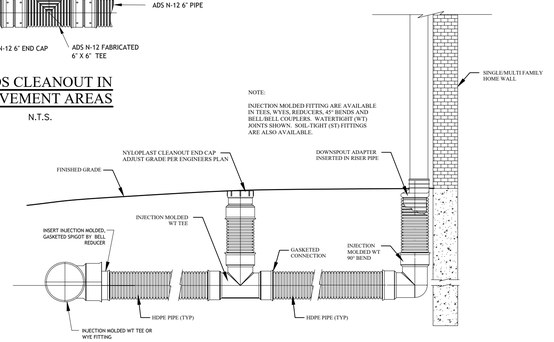
ROOFTOP INFILTRATION CHAMBERS

TYPICAL SECTION EACH FOR HALF ROOF OR FULL ROOF
NOT TO SCALE



ADS CLEANOUT IN PAVEMENT AREAS

N.T.S.



ROOFDRAIN W/CLEAN OUT DETAIL

N.T.S.

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REVISIONS:		
NO.	DATE:	DESCRIPTION
1	4/8/24	CITY REVIEW COMMENTS

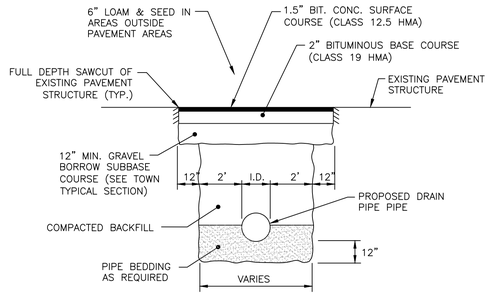
DESIGNED BY:	DMD
DRAWN BY:	
CHECKED BY:	DMD
DATE:	APRIL, 2024
PROJECT NO:	23-0003-01

PERMIT PLANS, NOT FOR CONSTRUCTION

SITE DETAILS PLAN NO. 1

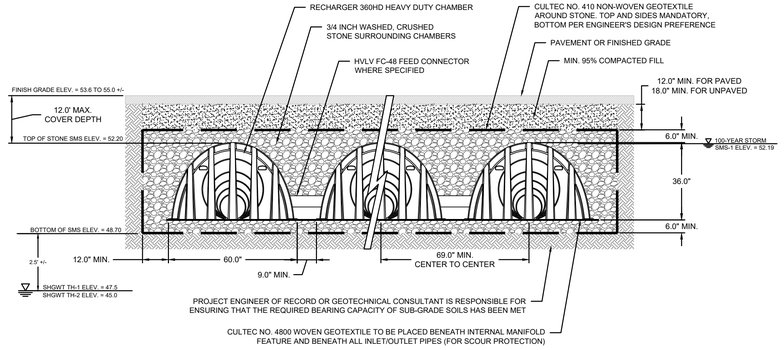
SHEET 9 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Pretim Plan 4-5-24.dwg Apr. 08, 2024 12:48pm



TYPICAL TRENCH AND PAVEMENT PATCH DETAIL

NOT TO SCALE



CROSS SECTION VIEW FOR SMS 1

NOT TO SCALE

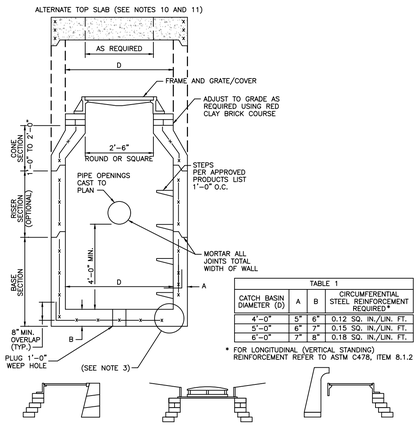


TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

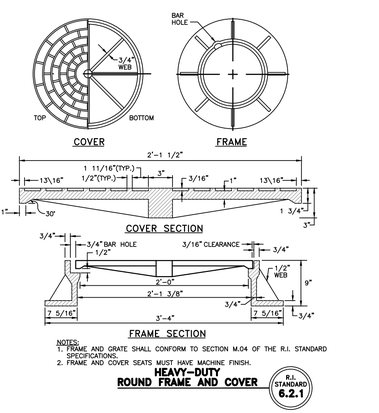
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

TYPE CATCH BASIN AS REQUIRED

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
5. ONE POUR MONOLITHIC BASE SECTION.
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0"CATCH BASIN ONLY.
8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST 4'-0",5'-0" OR 6'-0" ROUND CATCH BASIN

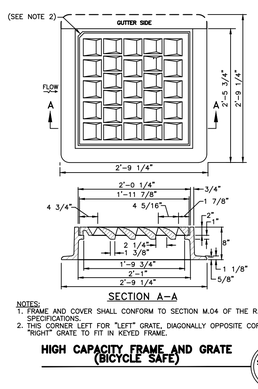
R.I. STANDARD 4.4.0 M1



NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

HEAVY-DUTY ROUND FRAME AND COVER

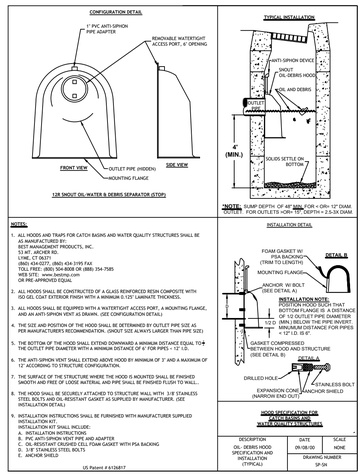
R.I. STANDARD 6.2.1



NOTES:
1. FRAME AND COVER SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS CORNER LEFT FOR "LEFT" GRATE, DIAGONALLY OPPOSITE CORNER FOR "RIGHT" GRATE TO FIT IN KEYED FRAME.

HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)

R.I. STANDARD 6.3.4



WQv BMP ISOLATOR ROWS

NOT TO SCALE

CULTEC RECHARGER® 360HD PRODUCT SPECIFICATIONS

GENERAL

CULTEC RECHARGER® 360HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS.
3. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND THE AASHTO DESIGN TRUCK LOAD AND LIVE AND DEAD LOAD FACTORS AS DEFINED BY AASHTO LRFD SECTION 12.12 WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
4. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
5. THE CHAMBER SHALL BE ARCHED IN SHAPE.
6. THE CHAMBER SHALL BE OPEN-BOTTOMED.
7. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
8. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER® 360HD SHALL BE 36 INCHES (915 mm) TALL, 60 INCHES (1525 mm) WIDE AND 50 INCHES (1275 mm) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER® 360HD SHALL BE 3.67 FEET (1.12 m).
9. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER® 360HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCH (600 mm) HDPE OR 30 INCH (750mm) PVC.
10. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCH (250mm) HDPE OR 12 INCH (300mm) PVC.
11. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
12. THE NOMINAL STORAGE VOLUME OF THE RECHARGER® 360HD CHAMBER SHALL BE 10.0 FT³ / FT (.928 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER® 360HD SHALL BE 36.66 FT³ / UNIT (1.038 m³ / UNIT) - WITHOUT STONE.
13. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
14. THE RECHARGER® 360HD CHAMBER SHALL HAVE 7 CORRUGATIONS.
15. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.
16. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12.0 FEET (3.66 m).

END CAP PARAMETERS

1. THE CULTEC RECHARGER® 360HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE END CAP SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
3. THE END CAP SHALL BE ARCHED IN SHAPE.
4. THE END CAP SHALL BE OPEN-BOTTOMED.
5. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
6. THE END CAP SHALL HAVE 5 CORRUGATIONS.
7. THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 36.5 INCHES (927 mm) TALL, 60 INCHES (1525 mm) WIDE AND 18 INCHES (458 mm) LONG. WHEN JOINED WITH A RECHARGER 360HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 15 INCHES (381 mm).
8. THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.17 FT³ / FT (0.48 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 6.46 FT³ / UNIT (0.183 m³ / UNIT) - WITHOUT STONE.
9. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCH (600 mm) HDPE OR 30 INCH (750mm) PVC.
10. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES
11. THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

GEOTEXTILE PARAMETERS

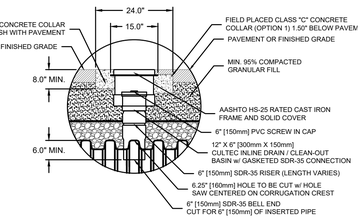
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

CULTEC NO. 4800™ WOVEN GEOTEXTILE

CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

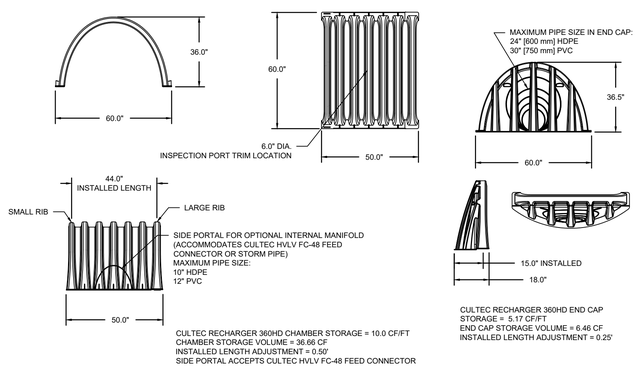
GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2, 740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.
14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



INSPECTION PORT DETAIL

NOT TO SCALE



CULTEC RECHARGER 360HD CHAMBER DETAILS

NOT TO SCALE

DEtec.
D'AMICO ENGINEERING TECHNOLOGY, INC.
Civil · Transportation · Land Use
2080 Mineral Spring Ave., North Providence, RI 02911
(401) 822-1470 (401) 353-1190 fax www.dengineeringtec.com

DAVID M. D'AMICO No. 5749 REGISTERED PROFESSIONAL ENGINEER CIVIL
4/8/24

TENTH AVENUE ROADWAY EXTENSION PLAN

MAP 2, LOTS 44, 103, 158 & 201
TENTH AVE. AT CHAPEL STREET
WOONSOCKET, RHODE ISLAND

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	4/8/24	CITY REVIEW COMMENTS

DESIGNED BY:	DMD
DRAWN BY:	
CHECKED BY:	DMD
DATE:	APRIL, 2024
PROJECT NO:	23-0003-01

PERMIT PLANS, NOT FOR CONSTRUCTION

SITE DETAILS PLAN NO. 2

SHEET 10 OF 11

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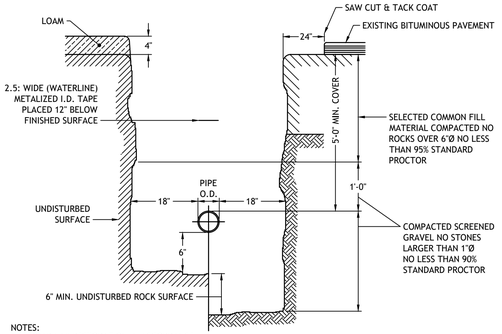
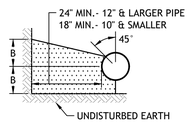
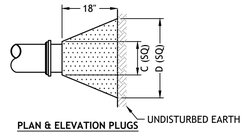


NOTES:
1. ROADWAY RESTORATION IN ACCORDANCE WITH COMMUNITY OR RIDOT.
2. SEE CITY OF WOONSOCKET STANDARD DETAILS FOR FURTHER REFERENCE.

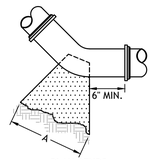
WATER TRENCH INSTALLATION IN ROCK AND SOIL
NOT TO SCALE



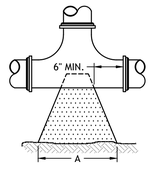
BENDS & TEES SECTION



PLAN & ELEVATION PLUGS



PLAN BENDS

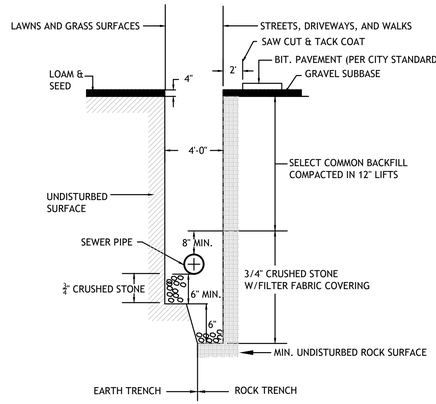


PLAN BENDS

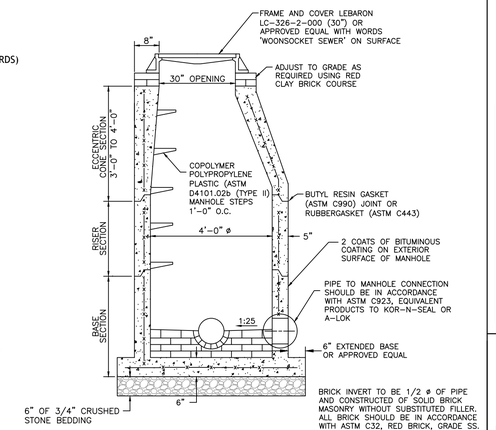
NOTE
1. ALL CONCRETE SHALL BE 400 P.S.I. @ 28 DAYS.
2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
3. FORMS TO BE USED AS NECESSARY.
4. ALL BOLTS AND NUTS TO BE PROTECTED FROM CONCRETE AND EASILY ACCESSIBLE WHEN THRUST BLOCK INSTALLED.
5. REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF R.I. SHALL VERIFY ALL CALCULATIONS DURING DESIGN TO MEET CONDITIONS OF PROJECT AND CITY REQUIREMENTS.

SIZE	TEES		PLUGS		90° BEND		45° BEND		22 1/2" BEND		11 1/4" BEND	
	A	B	C	D	A	B	A	B	A	B	A	B
4"	22"	12"	22"	12"	24"	16"	20"	10"	14"	7"	11"	5"
6"	30"	18"	30"	18"	35"	22"	27"	15"	19"	12"	13"	8"
8"	38"	24"	38"	24"	46"	29"	33"	22"	25"	14"	19"	10"

THRUST BLOCK
NOT TO SCALE

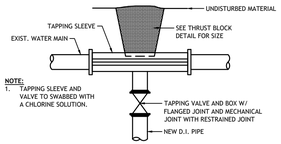


TYPICAL SEWER LINE TRENCH DETAIL
NO SCALE



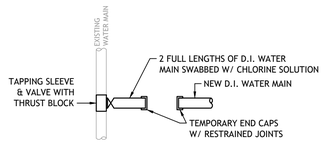
NOTES:
1. MANHOLE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C478
2. INVERT AND TABLE SHALL CONSIST ENTIRELY OF BRICK AND MORTAR.
3. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING
4. ALL STEPS SHOULD BE FACTORY INSTALLED BY THE MANHOLE MANUFACTURER 12-INCHES ON CENTER WITH PROPER VERTICAL ALIGNMENT.

TYPICAL SANITARY MANHOLE DETAIL
NOT TO SCALE

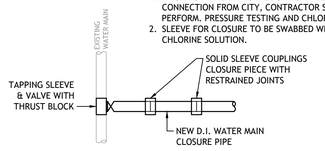


NOTE:
1. TAPPING SLEEVE AND VALVE TO SWABBED WITH A CHLORINE SOLUTION.

TAPPING SLEEVE AND VALVE
NOT TO SCALE



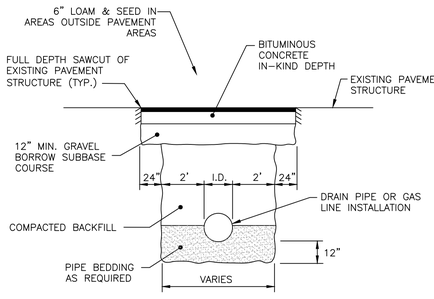
PRIOR TO CONNECTION



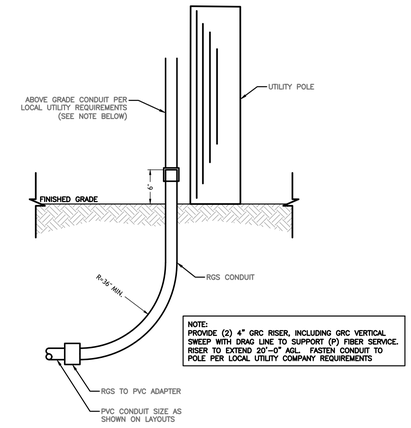
CONNECTION

NOTES:
1. PRIOR TO FINAL APPROVAL FOR PERMANENT CONNECTION FROM CITY, CONTRACTOR SHALL PERFORM, PRESSURE TESTING AND CHLORINATION.
2. SLEEVE FOR CLOSURE TO BE SWABBED WITH CHLORINE SOLUTION.

CONNECTION OF NEW WATER MAIN TO EXISTING WATER MAIN
NOT TO SCALE

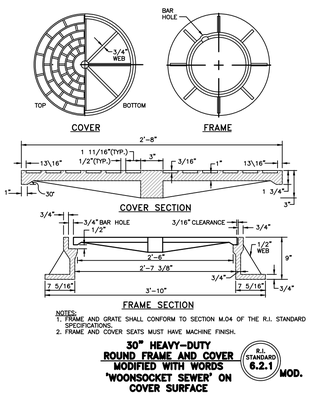


TYPICAL DRAIN TRENCH AND PAVEMENT PATCH DETAIL
NOT TO SCALE



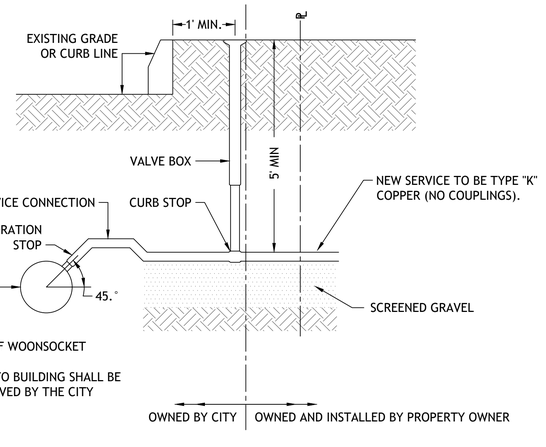
NOTE:
PROVIDE (2) 4" GRC RISER, INCLUDING GRC VERTICAL SWEEP WITH DRAG LINE TO SUPPORT (P) FIBER SERVICE. RISER TO EXTEND 20'-0" AGL. FASTEN CONDUIT TO POLE PER LOCAL UTILITY COMPANY REQUIREMENTS

UTILITY POLE RISER DETAIL
N.T.S.



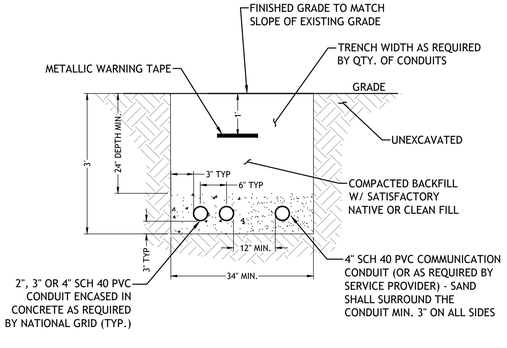
NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

30" HEAVY-DUTY ROUND FRAME AND COVER MODIFIED WITH WORDS 'WOONSOCKET SEWER' ON COVER SURFACE
R.I. STANDARD 6.2.1 MOD.

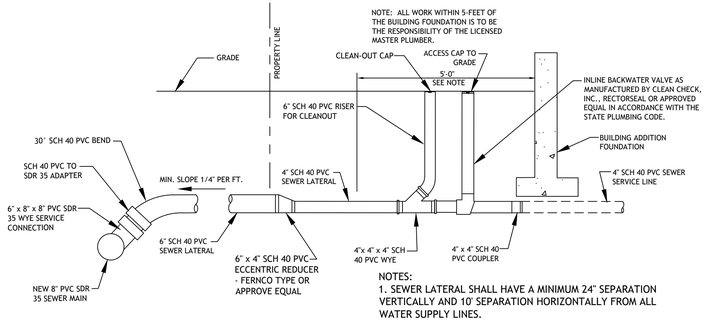


NOTE:
1. SERVICE MATERIALS PER CITY OF WOONSOCKET SPECIFICATION.
2. SERVICE LINE FROM CURB BOX TO BUILDING SHALL BE INSPECTED, TESTED AND APPROVED BY THE CITY PLUMBING INSPECTOR.

DOMESTIC WATER SERVICE CONNECTION
NOT TO SCALE



ELEC. & COMM. CONDUIT LINE TRENCH
N.T.S.



NOTES:
1. SEWER LATERAL SHALL HAVE A MINIMUM 24" SEPARATION VERTICALLY AND 10' SEPARATION HORIZONTALLY FROM ALL WATER SUPPLY LINES.
2. SEE CITY OF WOONSOCKET STANDARD DETAILS FOR ADDITIONAL SEWER SERVICE DETAILS.

SEWER SERVICE LATERAL AT BUILDING DETAIL
NOT TO SCALE

DTec.
D'AMICO ENGINEERING TECHNOLOGY, INC.
Civil · Transportation · Land Use
2080 Mineral Spring Ave., North Providence, RI 02911
(401) 822-1470 (401) 353-1190 fax www.dengineeringtec.com

DAVID M. D'AMICO
No. 6749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/8/24

TENTH AVENUE
ROADWAY EXTENSION
MAP 2, LOTS 44, 103, 158 & 201
TENTH AVE. AT CHAPEL STREET
WOONSOCKET, RHODE ISLAND

REVISIONS:

NO.	DATE.	DESCRIPTION
1	4/8/24	CITY REVIEW COMMENTS

DESIGNED BY:	DMD
DRAWN BY:	
CHECKED BY:	DMD
DATE:	APRIL, 2024
PROJECT NO:	23-0003-01

PERMIT PLANS, NOT FOR CONSTRUCTION

SITE DETAILS PLAN NO. 3

SHEET 11 OF 11

N:\23-0003 Elite Property Solution\01 10th Ave Woonsocket\Plans\10th Roadway Extension Woon Prelim Plan 4-5-24.dwg Apr. 08, 2024 12:49pm