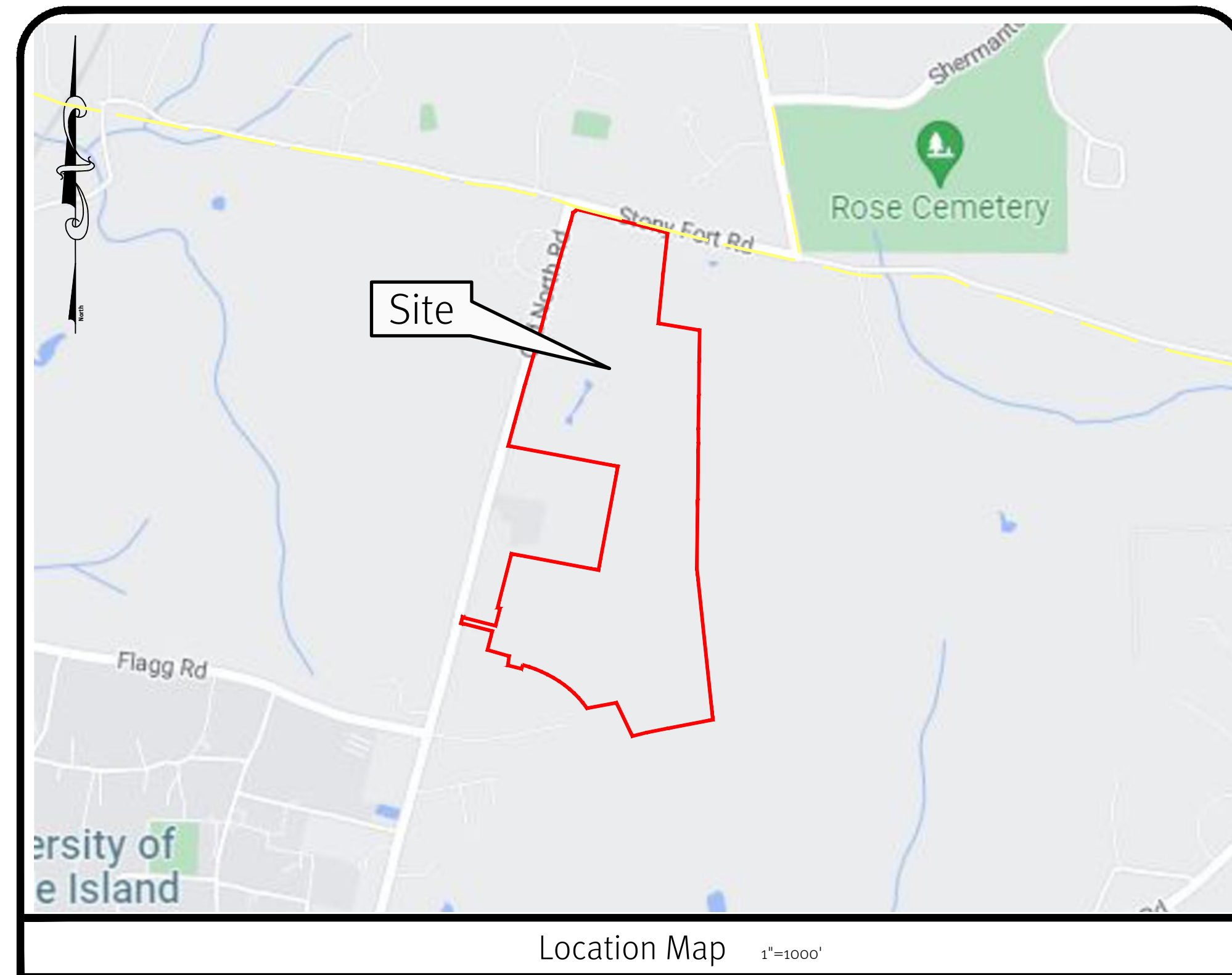


# Preliminary Plan Submission

# Fieldstone Farms

South Kingstown, Rhode Island

Assessor's Plat 16-4, Lot 9



## Sheet Index

1. Cover Sheet
2. Half Mile Radius Map
3. Existing Conditions Plan
4. SESC Plan
5. Overall Plan
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9. Grading Plan - 4
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11. Plan & Profile - 1
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13. Detail Sheet - 1
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15. Detail Sheet - 3
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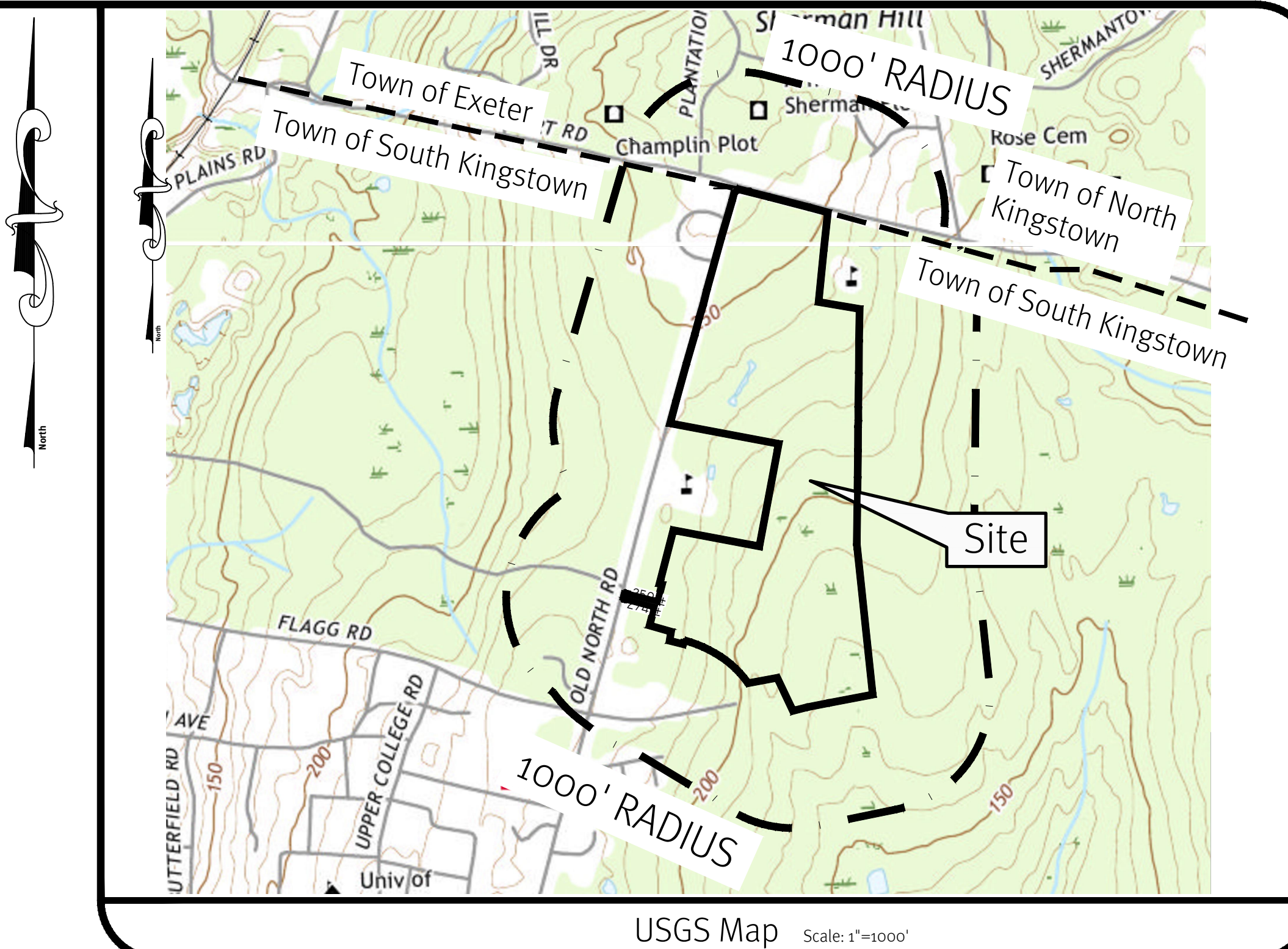
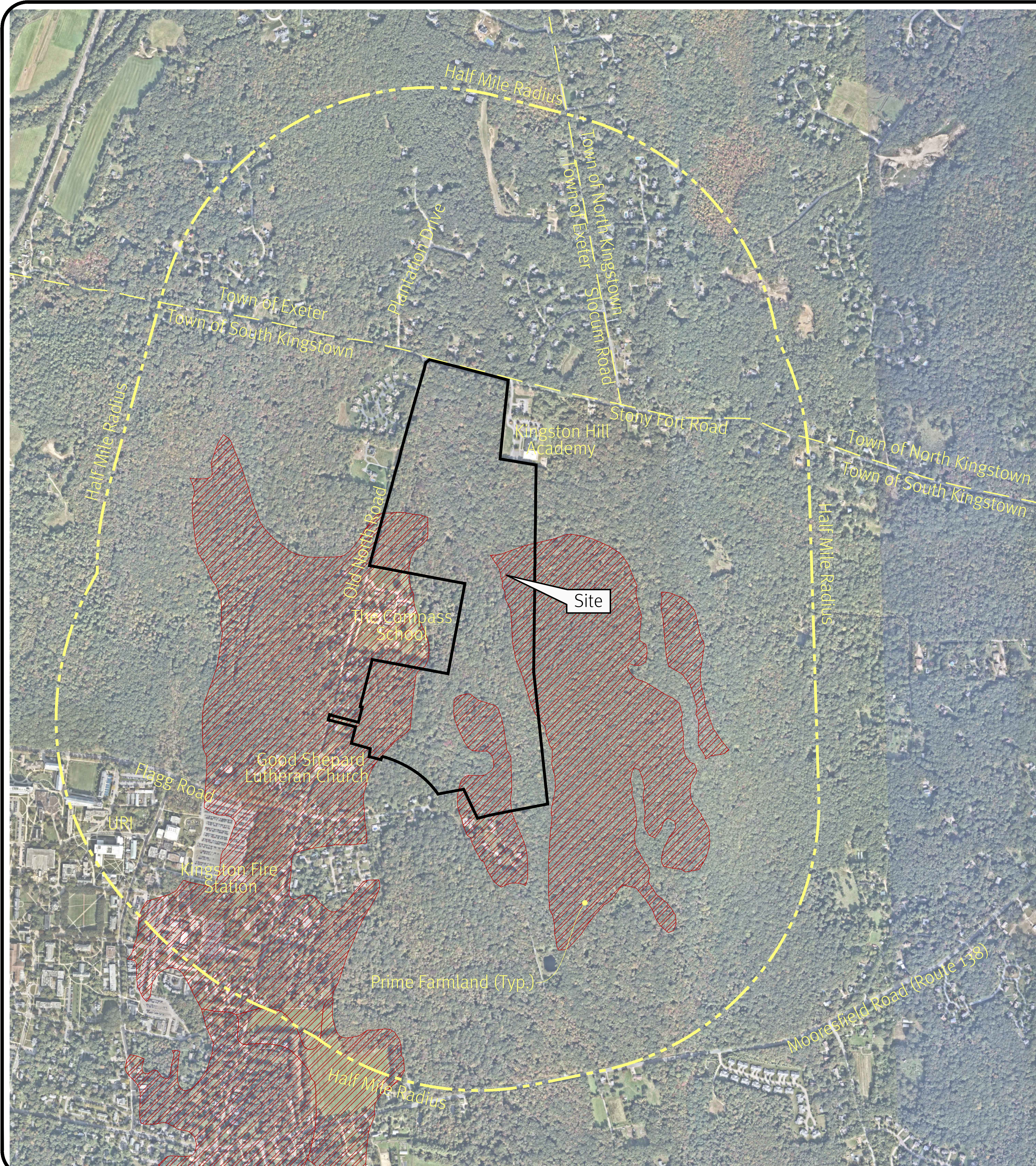
RIDEM PERMITS:  
• FRESHWATER WETLANDS #13-0034  
• RIPDES FILE #RIR01025  
• OWTS SITE SUITABILITY S32-209.

**DiPrete Engineering**  
Two Stafford Court Cranston, RI 02920  
Tel: 401-943-1000 Fax: 401-464-6006 www.DiPrete-Eng.com

ERIC M. BRIVE  
No. 8662  
REGISTERED  
PROFESSIONAL ENGINEER  
CIVIL

| No. | Date     | Description                                      | CR# | By |
|-----|----------|--|-----|----|
| 1   | 09-23-23 | Preliminary R.E.L.C. Preliminary Plan Submission |     |    |
| 2   | 10-12-23 |  |     |    |

**Cover Sheet**  
**Fieldstone Farms**  
Assessor's Plat 16-4, Lot 9  
South Kingstown, Rhode Island  
Prepared For  
**Old North Land Investments LLC**  
75 Lambert Lind Highway  
Warwick, Rhode Island 02886  
DE Job No. 016-1384 Copyright 2023 by DiPrete Engineering Associates, Inc.



**Note:**  
 1. THERE ARE NO FARMLAND SOILS OF STATEWIDE IMPORTANCE ON-SITE.

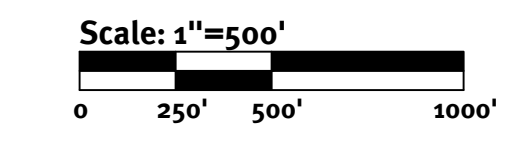


Photo obtained from the RI-GIS of 2011 Digital Orthophotography Southern Urban Areas of Rhode Island.

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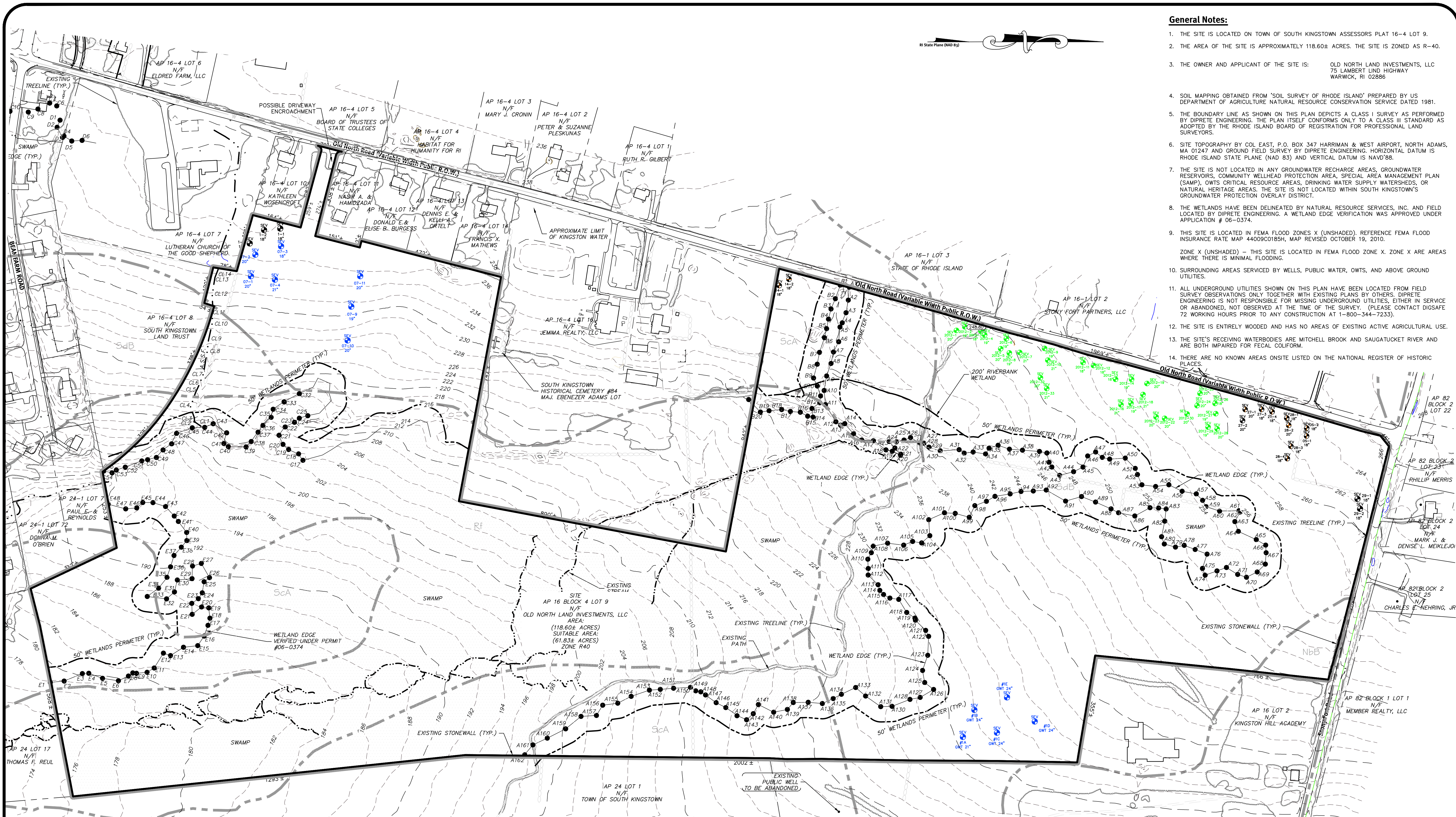
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ERIC M. BRIVE  
 No. 8662  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

| Proj. No. | Date    | Description                 | CR-1 | CR-2 | By                |
|-----------|---------|-----------------------------|------|------|-------------------|
| 09-23-23  | 8/16/23 | Preliminary Plan Submission |      |      |                   |
| 1         |         |                             |      |      | Design By: R.B.S. |

**Half Mile Radius Map**  
**Fieldstone Farms**  
 Assessor's Plat 164, Lot 9  
 South Kingstown, Rhode Island  
 Prepared For  
**Old North Land Investments LLC**  
 75 Lambert Lind Highway  
 Warwick, Rhode Island 02886

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**General Notes:**

1. THE SITE IS LOCATED ON TOWN OF SOUTH KINGSTOWN ASSESSORS PLAT 16-4 LOT 9.
2. THE AREA OF THE SITE IS APPROXIMATELY 118.60± ACRES. THE SITE IS ZONED AS R-40.
3. THE OWNER AND APPLICANT OF THE SITE IS: OLD NORTH LAND INVESTMENTS, LLC  
75 LAMBERT LIND HIGHWAY  
WARWICK, RI 02886
4. SOIL MAPPING OBTAINED FROM 'SOIL SURVEY OF RHODE ISLAND' PREPARED BY US DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE DATED 1981.
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
6. SITE TOPOGRAPHY BY COL EAST, P.O. BOX 347 HARRIMAN & WEST AIRPORT, NORTH ADAMS, MA 01247 AND GROUND FIELD SURVEY BY DIPRETE ENGINEERING. HORIZONTAL DATUM IS RHODE ISLAND STATE PLANE (NAD 83) AND VERTICAL DATUM IS NAVD'88.
7. THE SITE IS NOT LOCATED IN ANY GROUNDWATER RECHARGE AREAS, GROUNDWATER RESERVOIRS, COMMUNITY WELLHEAD PROTECTION AREA, SPECIAL AREA MANAGEMENT PLAN (SAMP), OWS CRITICAL RESOURCE AREAS, DRINKING WATER SUPPLY WATERSHEDS, OR NATURAL HERITAGE AREAS. THE SITE IS NOT LOCATED WITHIN SOUTH KINGSTOWN'S GROUNDWATER PROTECTION OVERLAY DISTRICT.
8. THE WETLANDS HAVE BEEN DELINEATED BY NATURAL RESOURCE SERVICES, INC. AND FIELD LOCATED BY DIPRETE ENGINEERING. A WETLAND EDGE VERIFICATION WAS APPROVED UNDER APPLICATION # 06-0374.
9. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0185H, MAP REVISED OCTOBER 19, 2010.  
ZONE X (UNSHADED) — THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. ZONE X ARE AREAS WHERE THERE IS MINIMAL FLOODING.
10. SURROUNDING AREAS SERVICED BY WELLS, PUBLIC WATER, OWS, AND ABOVE GROUND UTILITIES.
11. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY TOGETHER WITH EXISTING PLANS BY OTHERS. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-800-344-7233).
12. THE SITE IS ENTIRELY WOODED AND HAS NO AREAS OF EXISTING ACTIVE AGRICULTURAL USE.
13. THE SITE'S RECEIVING WATERBODIES ARE MITCHELL BROOK AND SAUGATUCKET RIVER AND ARE BOTH IMPAIRED FOR FECAL COLIFORM.
14. THERE ARE NO KNOWN AREAS ONSITE LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.

**DiPrete Engineering**  
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**Engineers • Planners • Surveyors**

**MICHAEL E. GAWITT**  
No. 1981  
PROFESSIONAL LAND SURVEYOR

**Certification:**  
THIS SURVEY AND PLAN CONFORMS TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.  
(SEE GENERAL NOTE 5)

**Legend:**

|                        |       |                        |                 |
|------------------------|-------|------------------------|-----------------|
| ASSESSOR'S LINES       | ---   | SOIL IDENTIFICATION    | BoC             |
| PROPERTY LINE          | ===== | EXISTING STONEWALL     | -----           |
| SOIL BOUNDARY LINE     | ----- | EXISTING BUILDING      | ▣               |
| WETLAND EDGE           | ----- | EXISTING UTILITY POLE  | —○—             |
| 100' RIVERBANK WETLAND | ----- | EXISTING MAJOR CONTOUR | --- 240 ---     |
| 50' PERIMETER WETLAND  | ----- | EXISTING MINOR CONTOUR | --- 242 ---     |
| 200' RIVERBANK WETLAND | ----- | AP                     | ASSESSOR'S PLAT |
| EXISTING TREELINE      | ~~~~~ | UP                     | UTILITY POLE    |
| EXISTING STREAM        | ----- | N/F                    | NOW OR FORMERLY |
| EXISTING FENCE         | ----- | WETLAND FLAG           | • A5            |
|                        |       | WETLAND HATCH          | ▨               |

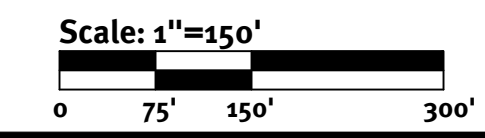
**Soil Information:**

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)  
SOIL NAME DESCRIPTION

|     |  |
|-----|--|
| Rf  | RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS |
| ScA | SCIO SILT LOAM, 0 TO 3 PERCENT SLOPES                              |
| SdB | SCIO VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES                   |
| NbB | NARRAGANSETT VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES           |

**Dimensional Regulations:**

|                                 |                  |
|---------------------------------|------------------|
| CURRENT ZONING:                 | RESIDENTIAL R-40 |
| MINIMUM LOT AREA:               | 40,000 SF        |
| MINIMUM FRONTAGE AND LOT WIDTH: | 150'             |
| MINIMUM FRONT YARD:             | 40'              |
| MINIMUM CORNER SIDE YARD:       | 30'              |
| MINIMUM SIDE YARD:              | 20'              |
| MINIMUM REAR YARD:              | 40'              |
| MAXIMUM STRUCTURE HEIGHT:       | 35'              |
| MAXIMUM LOT BUILDING COVERAGE:  | 20%              |

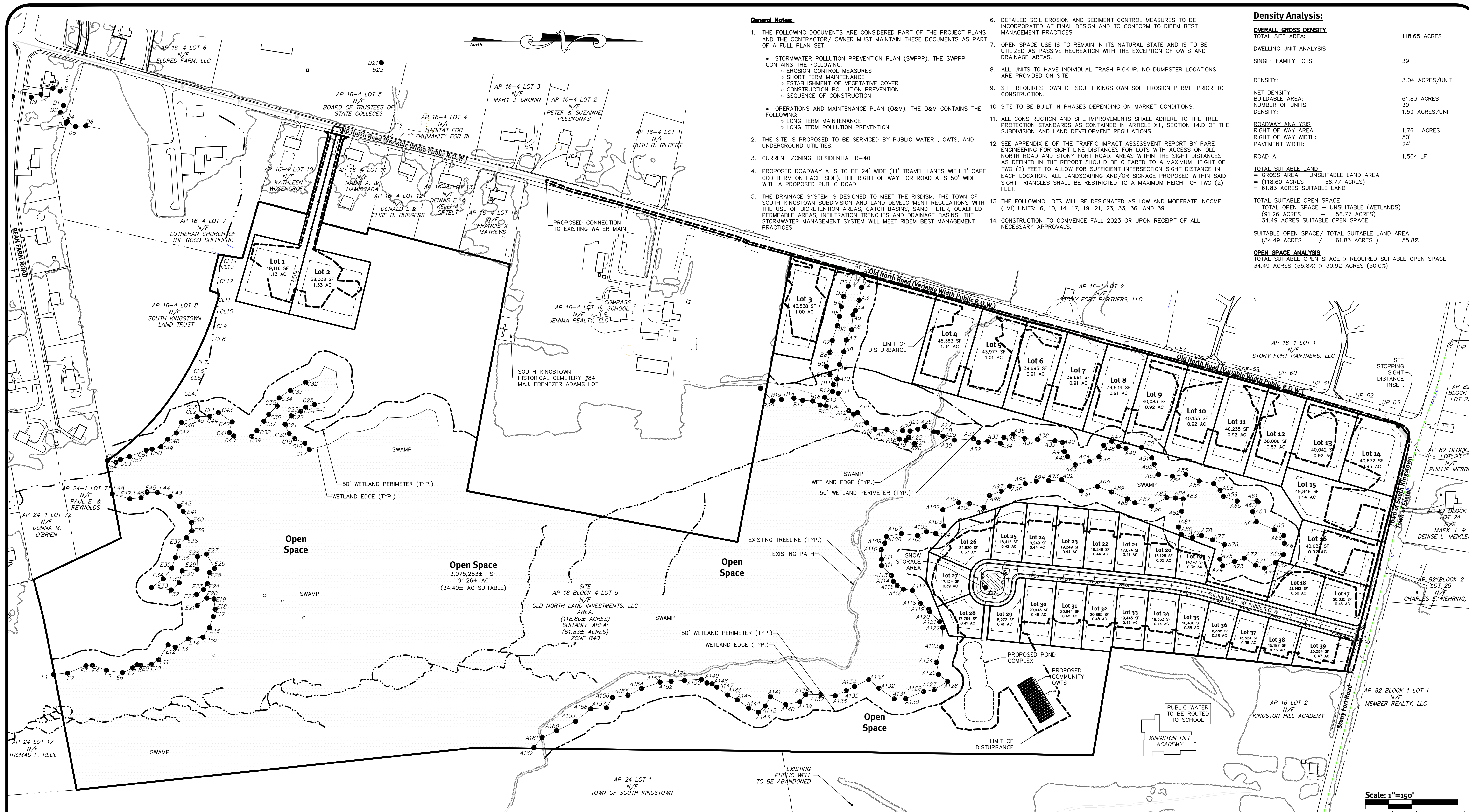


| REV. | DATE     | DESCRIPTION                 | BY | CHK. |
|------|----------|-----------------------------|----|------|
| 1    | 05-23-23 | Preliminary File            |    |      |
| 2    | 08-03-23 | Preliminary Plan Submission |    |      |
| 3    | 08-03-23 | Final Description           |    |      |

Design By: R. B.S.

**Existing Conditions Plan**  
**Fieldstone Farms**  
Assessors Plat 16-4, Lot 9  
South Kingstown, Rhode Island  
Prepared For:  
**Old North Land Investments LLC**  
75 Lambert Lind Highway  
Warwick, Rhode Island 02886  
DE JOB No: 0161-184. Copyright 2023 by DiPrete Engineering Associates, Inc.





**General Notes:**

- THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
  - STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP CONTAINS THE FOLLOWING:
    - EROSION CONTROL MEASURES
    - SHORT TERM MAINTENANCE
    - ESTABLISHMENT OF VEGETATIVE COVER
    - CONSTRUCTION POLLUTION PREVENTION
    - SEQUENCE OF CONSTRUCTION
  - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
    - LONG TERM MAINTENANCE
    - LONG TERM POLLUTION PREVENTION
- THE SITE IS PROPOSED TO BE SERVICED BY PUBLIC WATER, OWTS, AND UNDERGROUND UTILITIES.
- CURRENT ZONING: RESIDENTIAL R-40.
- PROPOSED ROADWAY A IS TO BE 24' WIDE (11' TRAVEL LANES WITH 1' CAPE COD BERM ON EACH SIDE). THE RIGHT OF WAY FOR ROAD A IS 50' WIDE WITH A PROPOSED PUBLIC ROAD.
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE RIDEM, THE TOWN OF SOUTH KINGSTOWN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF BIORETENTION AREAS, CATCH BASINS, SAND FILTER, QUALIFIED PERMEABLE AREAS, INFILTRATION TRENCHES AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM WILL MEET RIDEM BEST MANAGEMENT PRACTICES.
- DETAILED SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INCORPORATED AT FINAL DESIGN AND TO CONFORM TO RIDEM BEST MANAGEMENT PRACTICES.
- OPEN SPACE USE IS TO REMAIN IN ITS NATURAL STATE AND IS TO BE UTILIZED AS PASSIVE RECREATION WITH THE EXCEPTION OF OWTS AND DRAINAGE AREAS.
- ALL UNITS TO HAVE INDIVIDUAL TRASH PICKUP. NO DUMPSTER LOCATIONS ARE PROVIDED ON SITE.
- SITE REQUIRES TOWN OF SOUTH KINGSTOWN SOIL EROSION PERMIT PRIOR TO CONSTRUCTION.
- SITE TO BE BUILT IN PHASES DEPENDING ON MARKET CONDITIONS.
- ALL CONSTRUCTION AND SITE IMPROVEMENTS SHALL ADHERE TO THE TREE PROTECTION STANDARDS AS CONTAINED IN ARTICLE XIII, SECTION 14.D OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- SEE APPENDIX E OF THE TRAFFIC IMPACT ASSESSMENT REPORT BY PARE ENGINEERING FOR SIGHT LINE DISTANCES FOR LOTS WITH ACCESS ON OLD NORTH ROAD AND STONY FORT ROAD. AREAS WITHIN THE SIGHT DISTANCES AS DEFINED IN THE REPORT SHOULD BE CLEARED TO A MAXIMUM HEIGHT OF TWO (2) FEET TO ALLOW FOR SUFFICIENT INTERSECTION SIGHT DISTANCE IN EACH LOCATION. ALL LANDSCAPING AND/OR SIGNAGE PROPOSED WITHIN SAID SIGHT TRIANGLES SHALL BE RESTRICTED TO A MAXIMUM HEIGHT OF TWO (2) FEET.
- THE FOLLOWING LOTS WILL BE DESIGNATED AS LOW AND MODERATE INCOME (LMI) UNITS: 6, 10, 14, 17, 19, 21, 23, 33, 36, AND 39.
- CONSTRUCTION TO COMMENCE FALL 2023 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.

**Density Analysis:**

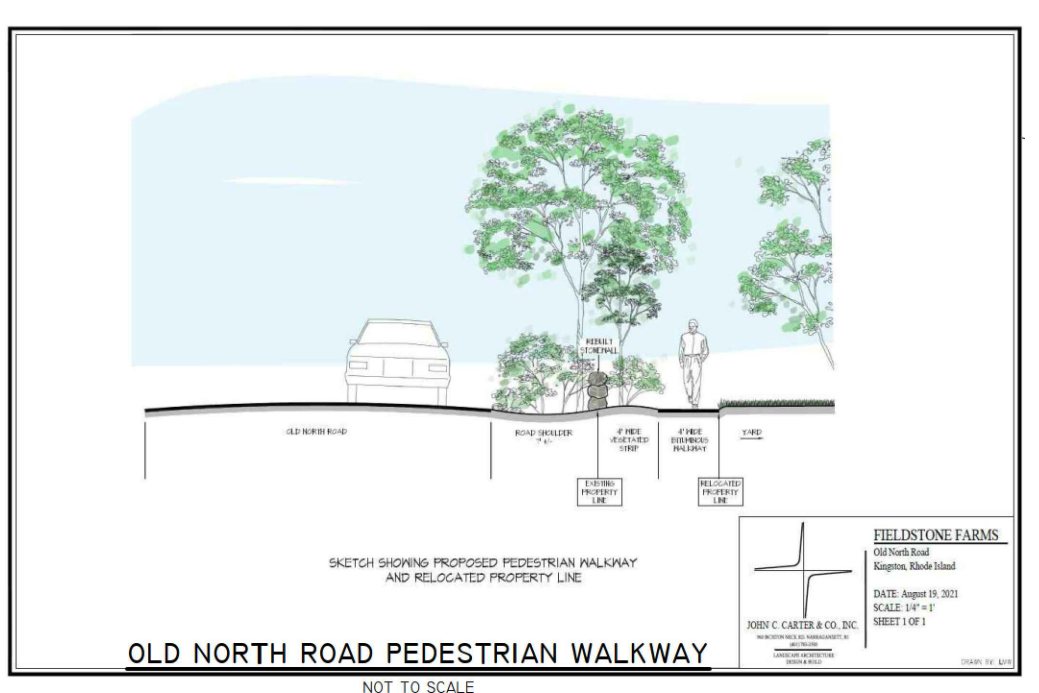
|  |   |
|--|---|
| <b>OVERALL GROSS DENSITY:</b>                            |   |
| TOTAL SITE AREA:   | 118.65 ACRES                              |
| <b>DWELLING UNIT ANALYSIS:</b>                           |   |
| SINGLE FAMILY LOTS                                       | 39  |
| DENSITY:   | 3.04 ACRES/UNIT                           |
| <b>NET DENSITY:</b>                                      |   |
| BUILDABLE AREA:  | 61.83 ACRES                               |
| NUMBER OF UNITS:   | 39  |
| DENSITY:   | 1.59 ACRES/UNIT                           |
| <b>ROADWAY ANALYSIS:</b>                                 |   |
| RIGHT OF WAY AREA:                                       | 1.76± ACRES                               |
| RIGHT OF WAY WIDTH:                                      | 50'                                       |
| PAVEMENT WIDTH:  | 24'                                       |
| ROAD A   | 1,504 LF                                  |
| <b>TOTAL SUITABLE LAND:</b>                              |   |
| = GROSS AREA - UNSUITABLE LAND AREA                      | (118.60 ACRES - 56.77 ACRES)              |
| = 61.83 ACRES SUITABLE LAND                              |   |
| <b>TOTAL SUITABLE OPEN SPACE:</b>                        |   |
| = TOTAL OPEN SPACE - UNSUITABLE (WETLANDS)               | (91.26 ACRES - 56.77 ACRES)               |
| = 34.49 ACRES SUITABLE OPEN SPACE                        |   |
| SUITABLE OPEN SPACE / TOTAL SUITABLE LAND AREA           | (34.49 ACRES / 61.83 ACRES) 55.8%         |
| <b>OPEN SPACE ANALYSIS:</b>                              |   |
| TOTAL SUITABLE OPEN SPACE > REQUIRED SUITABLE OPEN SPACE | 34.49 ACRES (55.8%) > 30.92 ACRES (50.0%) |

**Legend:**

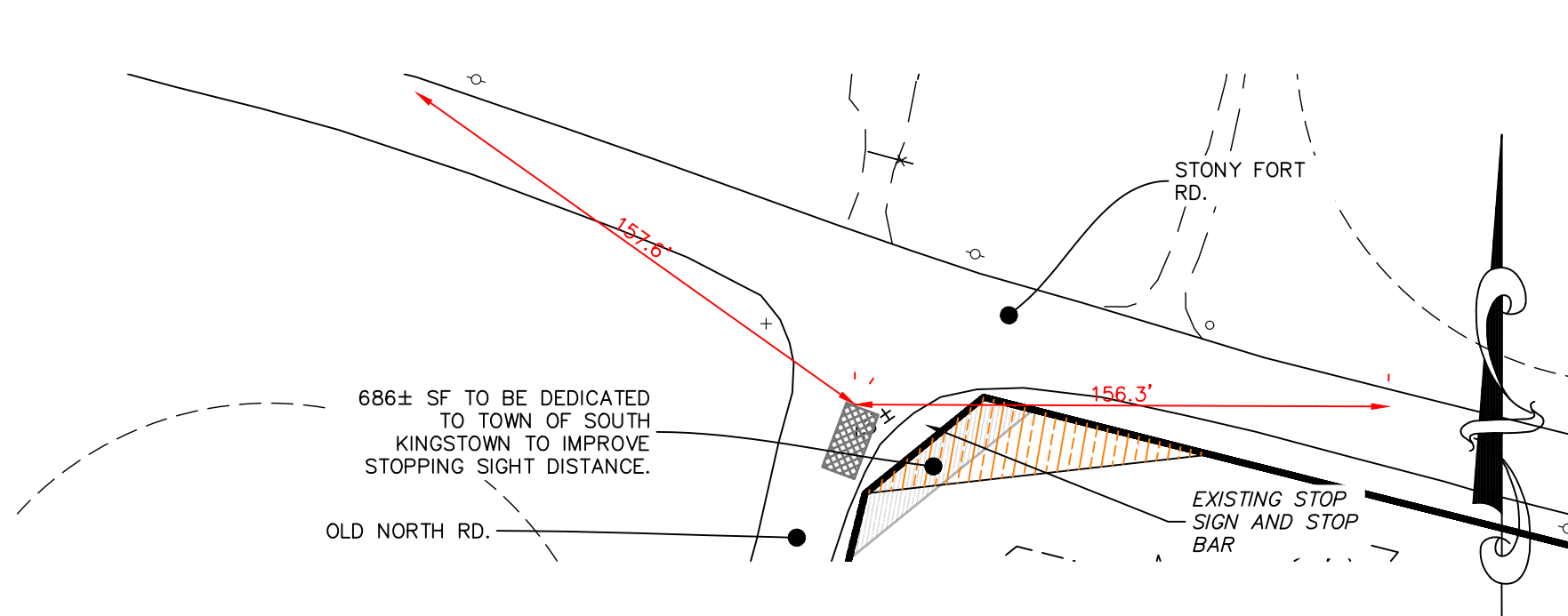
|                        |                        |   |
|------------------------|------------------------|---|
| ASSESSOR'S LINES       | SOIL IDENTIFICATION    | SOIL EVALUATIONS 2009 RIDEM VERIFIED              |
| PROPERTY LINE          | EXISTING STONEWALL     | SOIL EVALUATIONS 2007 RIDEM VERIFIED              |
| SOIL BOUNDARY LINE     | EXISTING BUILDING      | SOIL EVALUATIONS 2012 RIDEM WITNESSED & CONCURRED |
| WETLAND EDGE           | EXISTING UTILITY POLE  |   |
| 100' RIVERBANK WETLAND | EXISTING MAJOR CONTOUR |   |
| 50' PERIMETER WETLAND  | EXISTING MINOR CONTOUR |   |
| 200' RIVERBANK WETLAND | AP                     | ASSESSOR'S PLAT                                   |
| EXISTING TREELINE      | UP                     | UTILITY POLE                                      |
| EXISTING STREAM        | N/F                    | NOW OR FORMERLY                                   |
| EXISTING FENCE         | WETLAND FLAG           |   |
|                        | WETLAND HATCH          |   |

**Dimensional Regulations:**

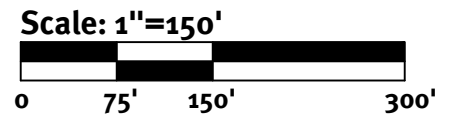
|                  |                  |                   |
|------------------|------------------|-------------------|
| CURRENT ZONING:  | RESIDENTIAL R-40 | RESIDENTIAL R-10  |
| CURRENT SETBACKS | 40,000 SF        | PROPOSED SETBACKS |
| 150'             | 80'              | 80'               |
| 80'              | 25'              | 25'               |
| 40'              | 20'              | 20'               |
| 30'              | 10'              | 10'               |
| 20'              | 30'              | 30'               |
| 35'              | 35'              | 35'               |
| 20%              | 25%              | 25%               |



**OLD NORTH ROAD PEDESTRIAN WALKWAY**



**Stopping Sight Distance Inset**



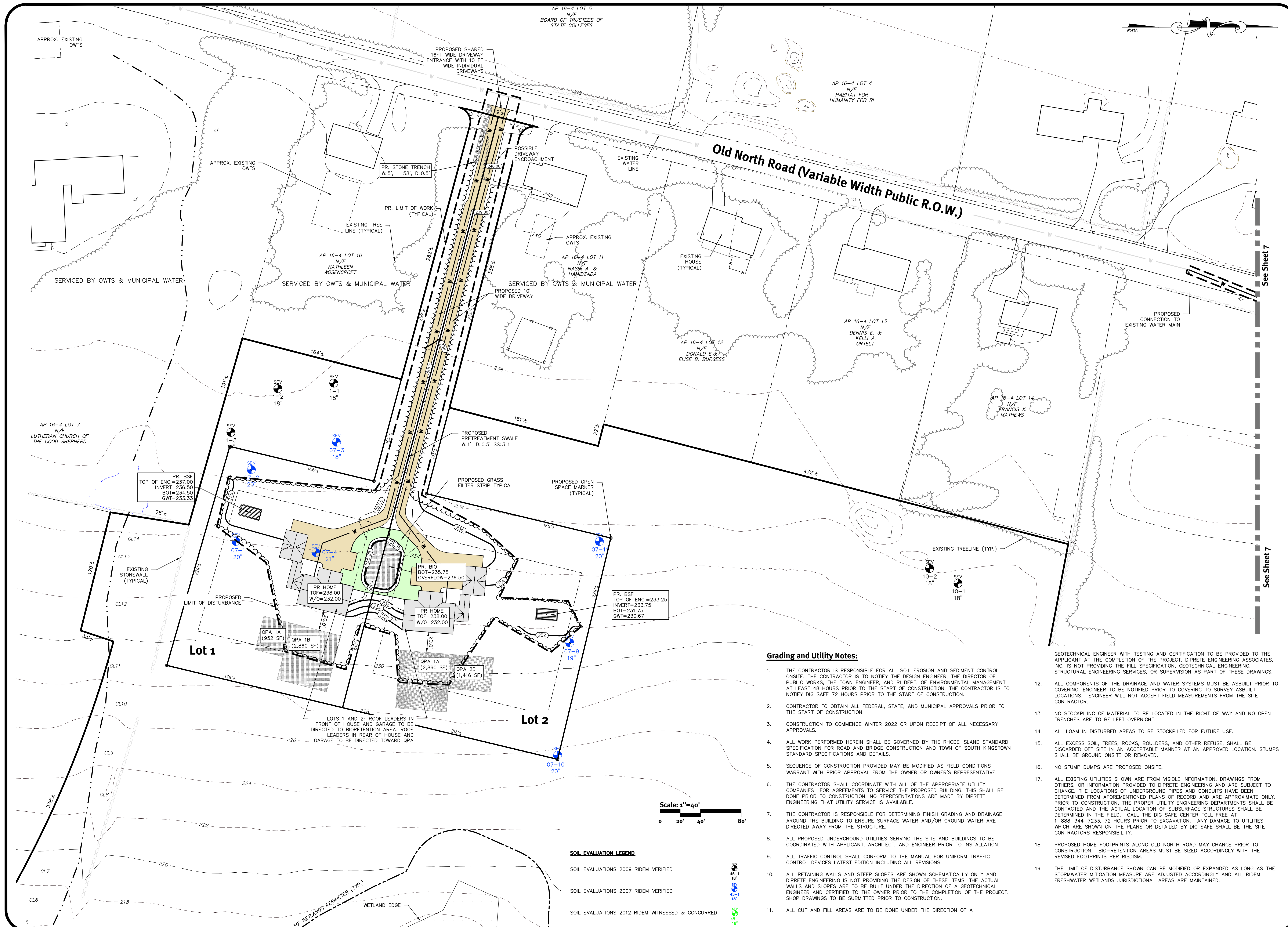
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**ERIC M. PRIVE**  
 No. 8662  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

| REV. | DATE     | DESCRIPTION                 |
|------|----------|-----------------------------|
| 1    | 09-23-23 | PRELIMINARY RELEASE         |
| 2    | 10-23-23 | PRELIMINARY PLAN SUBMISSION |
| 3    | 11-23-23 | DATE                        |

Design By: R.B.S.

**Overall Plan**  
**Fieldstone Farms**  
 Assessor's Plat for Lot 9  
 South Kingstown, Rhode Island  
 Prepared For  
**Old North Land Investments LLC**  
 75 Lambert Lind Highway  
 Warwick, Rhode Island 02886  
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**SOIL EVALUATION LEGEND**

SOIL EVALUATIONS 2009 RIDEM VERIFIED

SOIL EVALUATIONS 2007 RIDEM VERIFIED

SOIL EVALUATIONS 2012 RIDEM WITNESSED & CONCURRED

**Grading and Utility Notes:**

- THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON-SITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY DIG SAFE 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION TO COMMENCE WINTER 2022 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF SOUTH KINGSTOWN STANDARD SPECIFICATIONS AND DETAILS.
- SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION INCLUDING ALL REVISIONS.
- ALL RETAINING WALLS AND STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL WALLS AND SLOPES ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION.
- ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
- ALL COMPONENTS OF THE DRAINAGE AND WATER SYSTEMS MUST BE ABSULT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.
- NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
- ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS SHALL BE GROUND ON-SITE OR REMOVED.
- NO STUMP DUMPS ARE PROPOSED ON-SITE.
- ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233, 72 HOURS PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTOR'S RESPONSIBILITY.
- PROPOSED HOME FOOTPRINTS ALONG OLD NORTH ROAD MAY CHANGE PRIOR TO CONSTRUCTION. BIO-RETENTION AREAS MUST BE SIZED ACCORDINGLY WITH THE REVISED FOOTPRINTS PER RISIDM.
- THE LIMIT OF DISTURBANCE SHOWN CAN BE MODIFIED OR EXPANDED AS LONG AS THE STORMWATER MITIGATION MEASURE ARE ADJUSTED ACCORDINGLY AND ALL RIDEM FRESHWATER WETLANDS JURISDICTIONAL AREAS ARE MAINTAINED.

**Grading Plan - 1**  
**Fieldstone Farms**  
 Assessor's Plat 164, Lot 9  
 South Kingstown, Rhode Island  
 Prepared For  
**Old North Land Investments LLC**  
 75 Lambert Lind Highway  
 Warwick, Rhode Island 02886

**Diprete Engineering**  
 Two Stafford Court Cranston, RI 02920  
 tel 401-943-1000 fax 401-464-6006 www.Diprete-Eng.com  
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**ERIC M. PRIVE**  
 No. 8662  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

| Proj. No. | Date  | Description           | CR | BY |
|-----------|-------|-----------------------|----|----|
| 02-23-23  | 03-22 | Preliminary Submittal |    |    |
|           |       |                       |    |    |
|           |       |                       |    |    |
|           |       |                       |    |    |

Design By: R.B.S.

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See Sheet 6

See Sheet 6



**SOIL EVALUATION LEGEND**

SOIL EVALUATIONS 2009 RIDEM VERIFIED

SOIL EVALUATIONS 2007 RIDEM VERIFIED

SOIL EVALUATIONS 2012 RIDEM WITNESSED & CONCURRED



Scale: 1"=40'

0 20' 40' 80'

**Diprete Engineering**

Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-464-6006 www.Diprete-Eng.com

Engineers • Planners • Surveyors

**ERIC M. PRIVE**

No. 8662

REGISTERED PROFESSIONAL ENGINEER CIVIL

| CD       | By | Description            |
|----------|----|------------------------|
| 09-23-23 | BR | PRELIMINARY SUBMISSION |
| 03-22    | BR | DATE                   |

Design By: R.B.S.

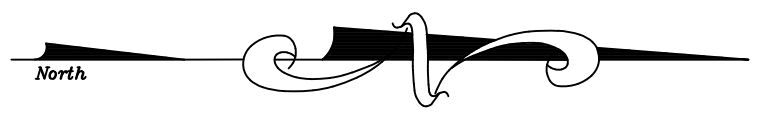
**Grading Plan - 2**

**Fieldstone Farms**

Assessor's Plat 164, Lot 9  
South Kingstown, Rhode Island

Prepared For:  
**Old North Land Investments LLC**  
75 Lambert Lind Highway  
Warwick, Rhode Island 02886

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**SOIL EVALUATION LEGEND**

- SOIL EVALUATIONS 2009 RIDEM VERIFIED
- SOIL EVALUATIONS 2007 RIDEM VERIFIED
- SOIL EVALUATIONS 2012 RIDEM WITNESSED & CONCURRED



LOT 8: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF HOUSE TO BE DIRECTED TOWARD QPA. ROOF LEADER IN REAR OF GARAGE TO BE PIPED TO DRYWELL.

LOT 9: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF HOUSE AND GARAGE TO BE DIRECTED TOWARD QPA.

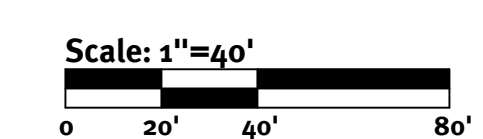
LOTS 10 AND 11: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF HOUSE AND GARAGE TO BE DIRECTED TOWARD QPA.

LOT 12: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF HOUSE AND GARAGE TO BE DIRECTED TOWARD QPA.

LOT 13: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF GARAGE TO BE DIRECTED TOWARD QPA. ROOF LEADER IN REAR OF HOUSE TO BE PIPED TO DRYWELL.

LOT 14: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF HOUSE AND GARAGE TO BE DIRECTED TOWARD QPA.

LOT 15: ROOF LEADERS IN FRONT OF HOUSE AND GARAGE TO BE DIRECTED TO BIORETENTION AREA. ROOF LEADERS IN REAR OF HOUSE AND GARAGE TO BE DIRECTED TOWARD QPA.

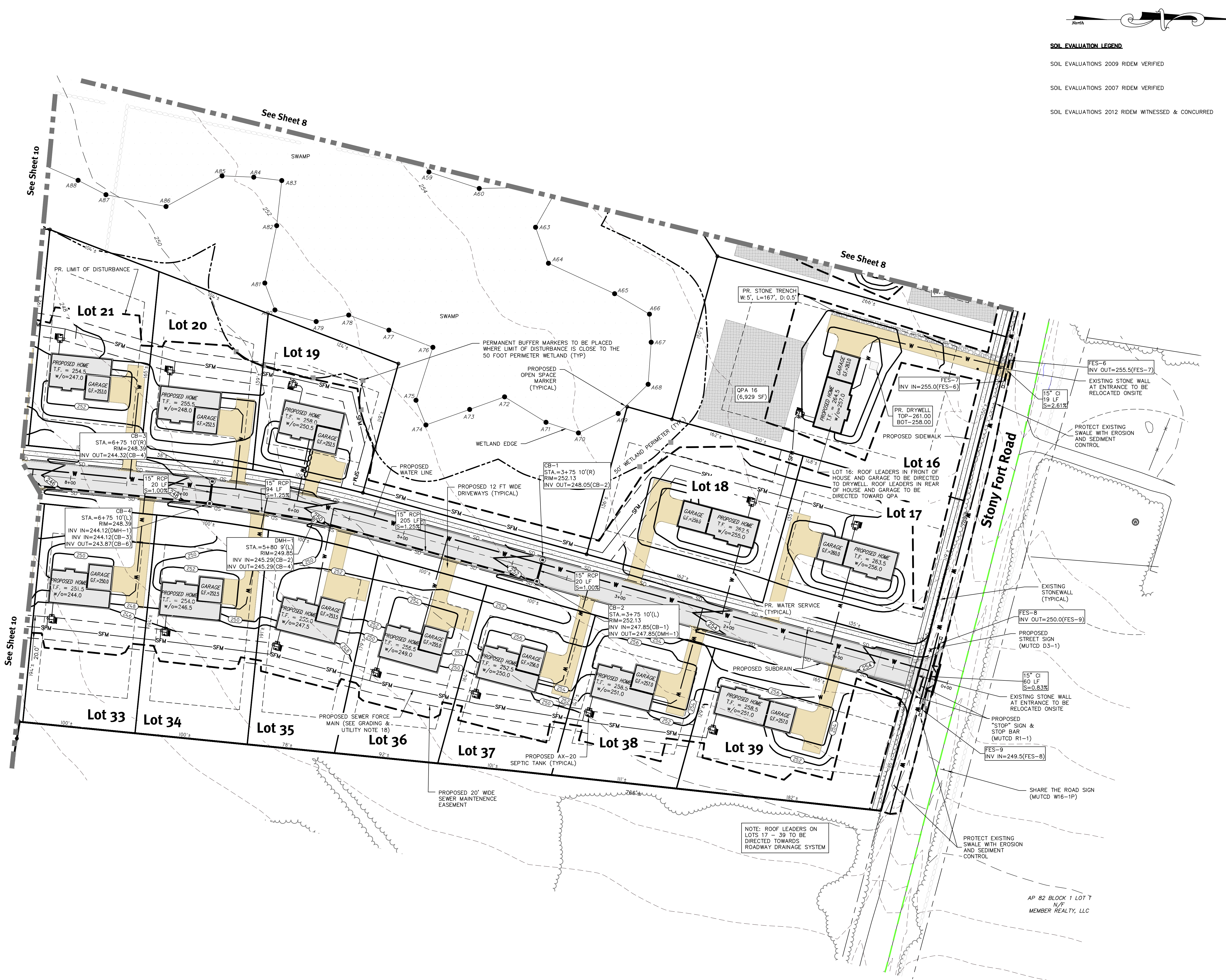


**Diprete Engineering**  
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**ERIC M. PRIVE**  
No. 8662  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

| No. | Date     | Description            | By | Appr. |
|-----|----------|------------------------|----|-------|
| 1   | 03-23-23 | PRELIMINARY RELEASE    |    |       |
| 2   | 03-23-23 | PRELIMINARY SUBMISSION |    |       |

**Grading Plan - 3**  
**Fieldstone Farms**  
Assessor's Plat 164, Lot 9  
South Kingstown, Rhode Island  
Provided For  
**Old North Land Investments LLC**  
75 Lambert Lind Highway  
Warwick, Rhode Island 02886  
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**SOIL EVALUATION LEGEND**

SOIL EVALUATIONS 2009 RIDEM VERIFIED

SOIL EVALUATIONS 2007 RIDEM VERIFIED

SOIL EVALUATIONS 2012 RIDEM WITNESSED & CONCURRED

See Sheet 10

See Sheet 8

See Sheet 8

See Sheet 10

Scale: 1"=40'

0 20' 40' 80'

**DIPrete Engineering**

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**ERIC M. BRIVE**

No. 8662

REGISTERED PROFESSIONAL ENGINEER CIVIL

| Rev. | Date     | Description        | By | Appr. |
|------|----------|--------------------|----|-------|
| 1    | 09-23-23 | Preliminary R.E.C. |    |       |
| 2    | 10-23-23 | Final R.E.C.       |    |       |
| 3    | 10-23-23 | Final R.E.C.       |    |       |

Design By: R.B.S.

**Grading Plan - 4**

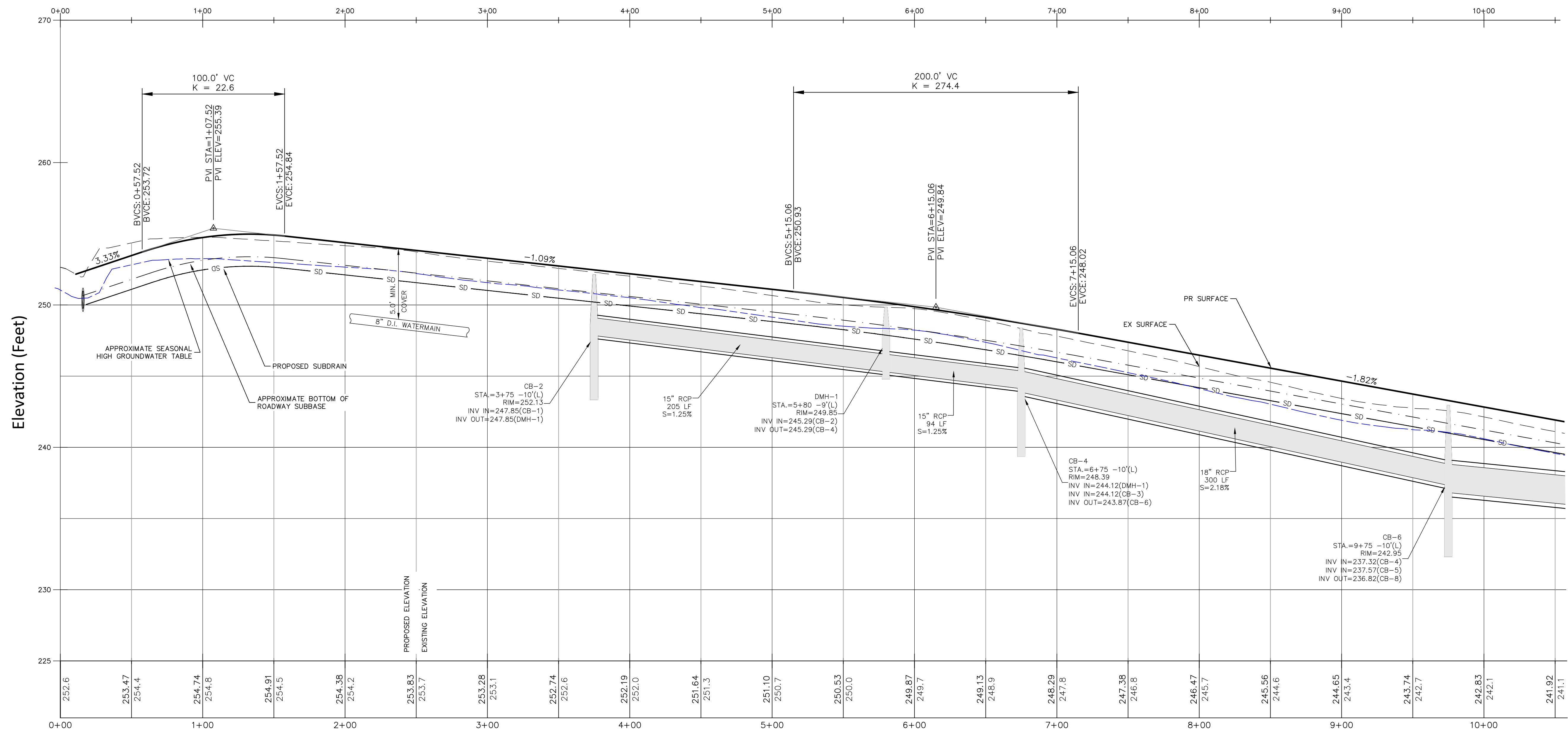
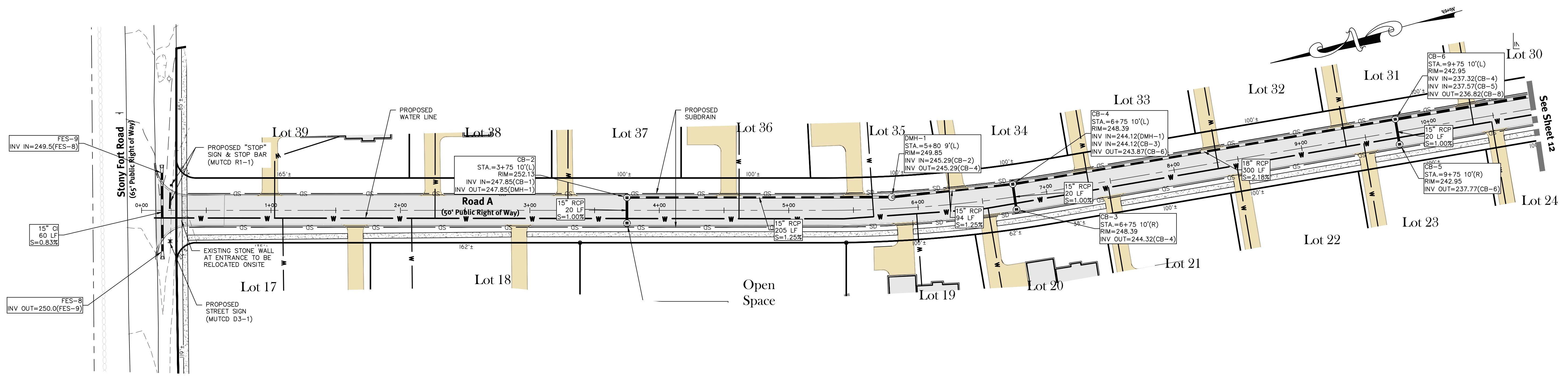
**Fieldstone Farms**

Assessor's Plat 16, Lot 9  
 South Kingston, Rhode Island

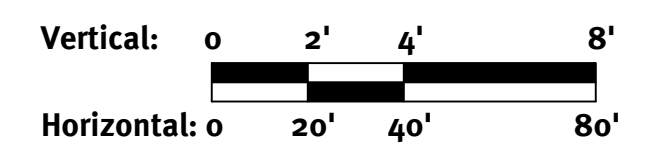
Provided For:  
**Old North Land Investments LLC**  
 75 Lambert Lind Highway  
 Warwick, Rhode Island 02886

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Road A (Sta. 0+00 - 10+50)

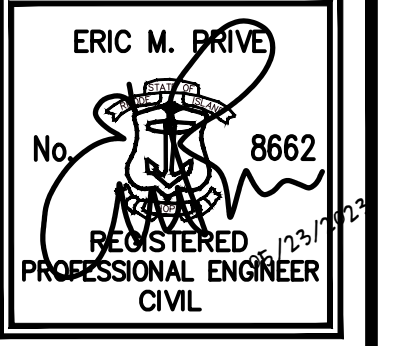


**Plan & Profile - 1**  
**Fieldstone Farms**

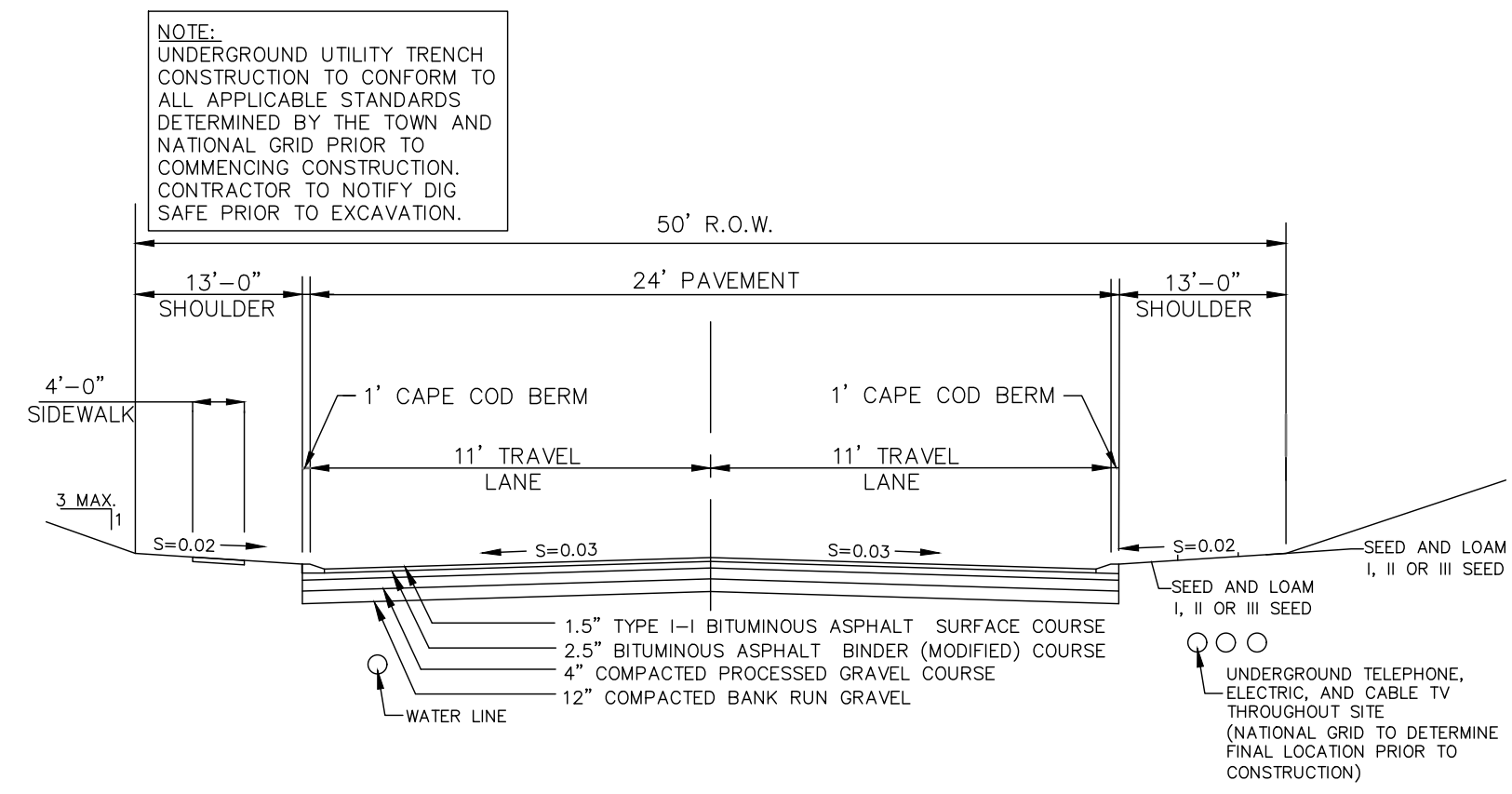
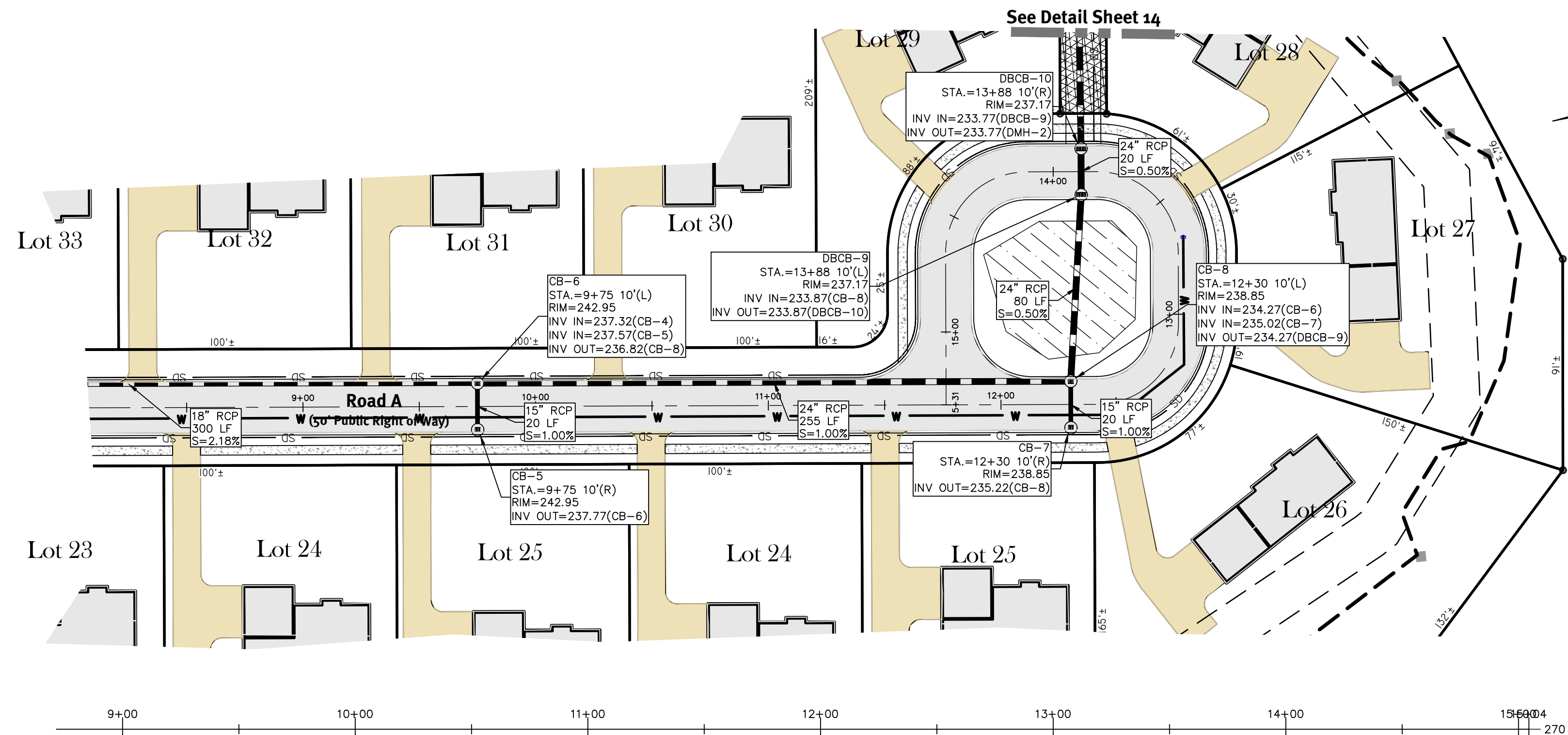
Assessor's Plat 164, Lot 9  
 South Kingstown, Rhode Island  
 Provided For  
 Old North Land Investments LLC  
 75 Lambert Lind Highway  
 Warwick, Rhode Island 02886

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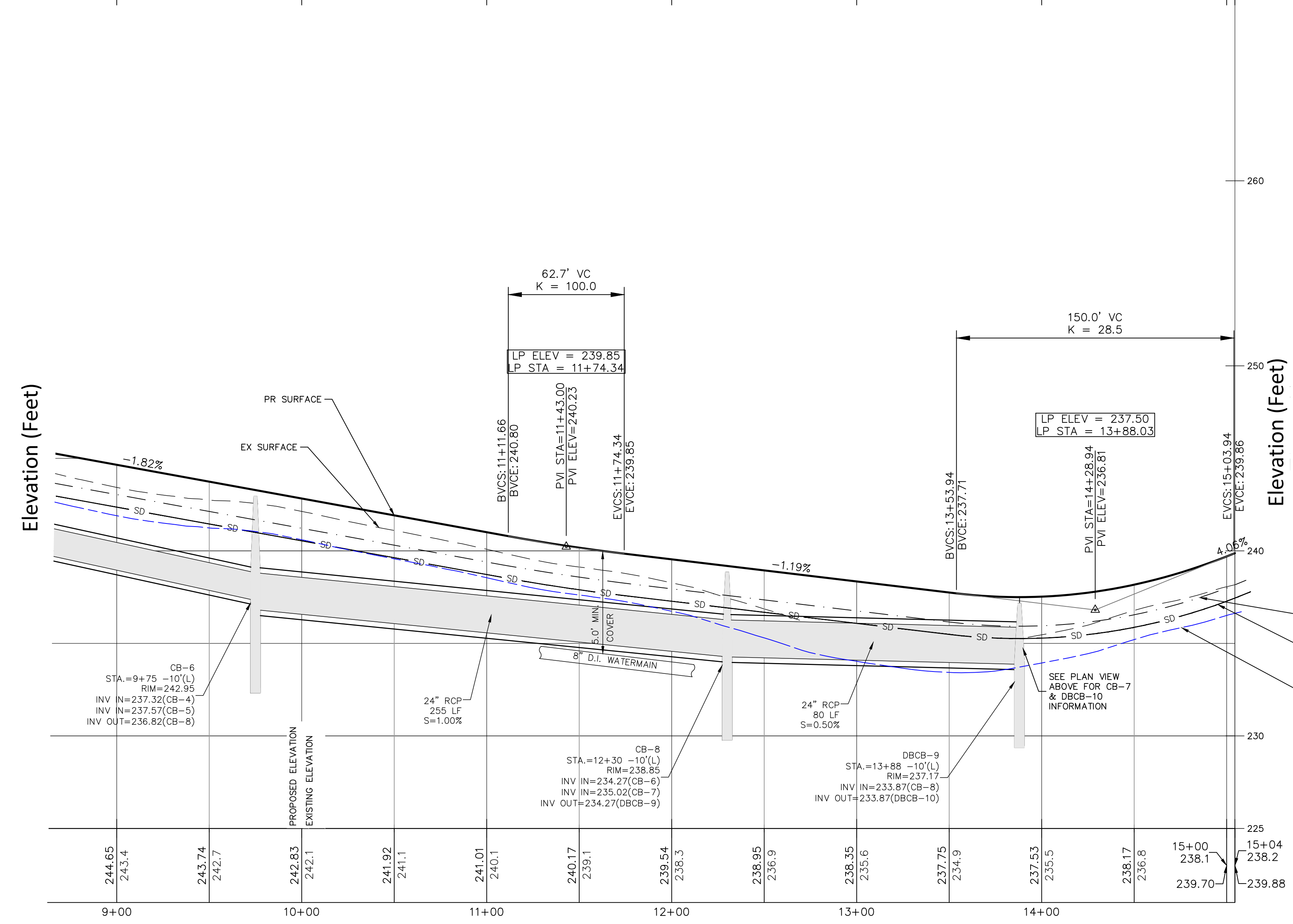
| No. | Date     | Description                 | By | CR |
|-----|----------|-----------------------------|----|----|
| 1   | 02-23-23 | Preliminary R.E.C.          |    |    |
| 2   | 03-02-23 | Preliminary Plan Submission |    |    |



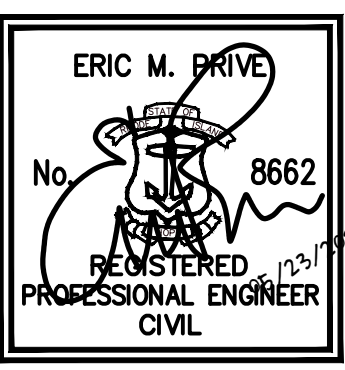
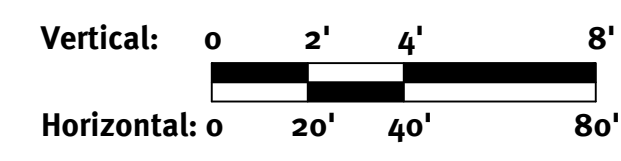
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**ROAD A CONSTRUCTION CROSS SECTION**  
NOT TO SCALE



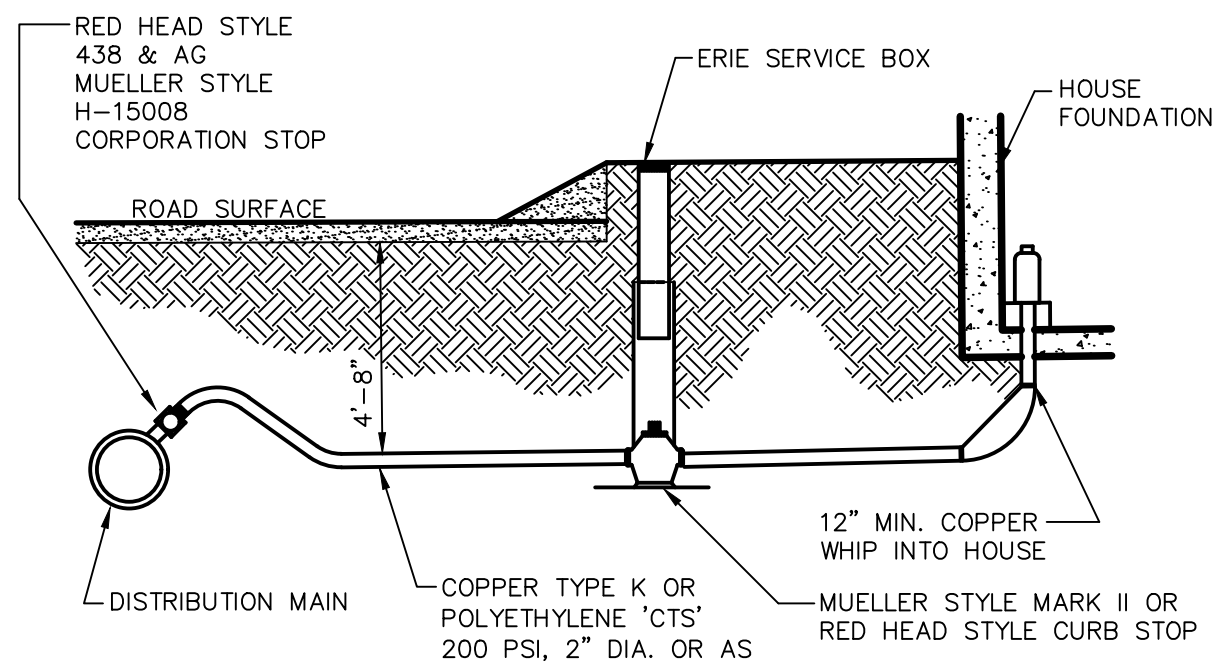
**Road A (Sta. 9+00 - 15+04)**



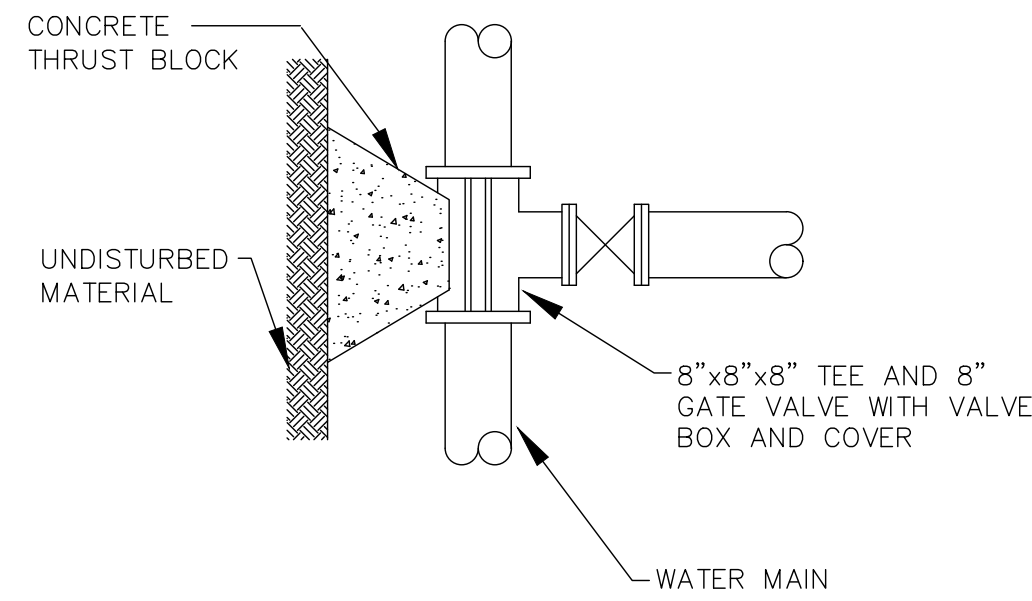
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|-----|----------|------------------------|----|-------|
| 1   | 09-23-23 | Preliminary R.E.C.     |    |       |
| 2   | 04-22    | Preliminary Submission |    |       |



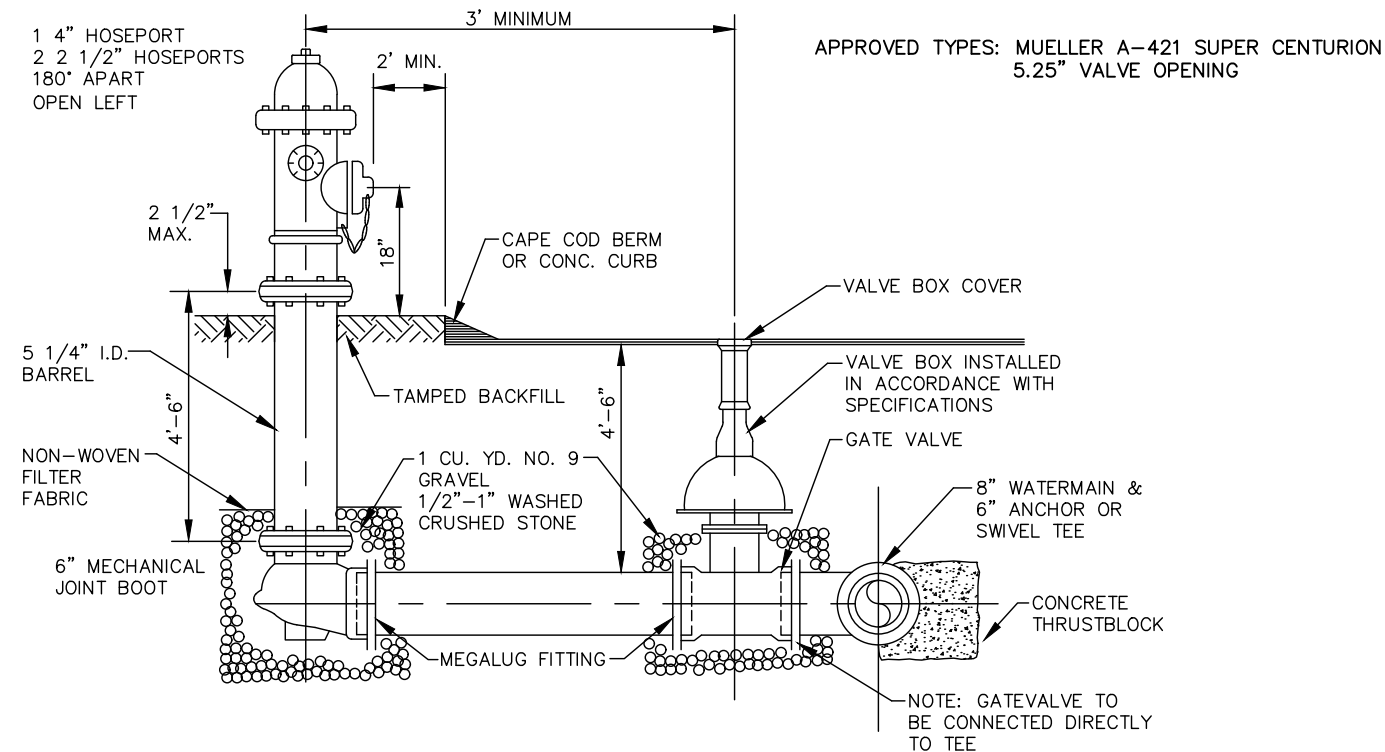




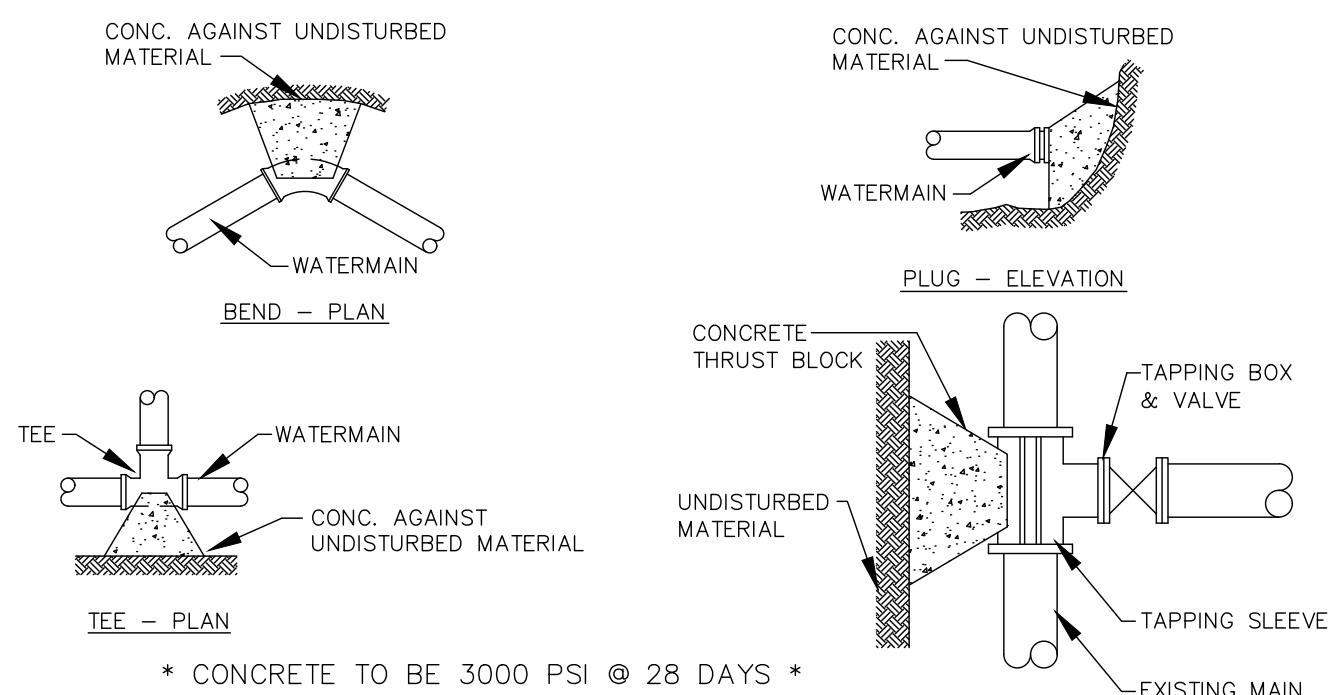
TYPICAL 2" OR SMALLER WATER SERVICE N.T.S.



TYPICAL 4" OR GREATER WATER SERVICE N.T.S.



AWWA C502 DRY BARREL FIRE HYDRANT N.T.S.



\* CONCRETE TO BE 3000 PSI @ 28 DAYS \*

| THRUST BLOCK SCHEDULE BEARING AREA |                  |                |  |
|------------------------------------|------------------|----------------|--|
| PIPE SIZE                          | 45° BEND OR LESS | TEE & DEAD END |  |
| 8"                                 | 2.5' x 2.5'      | 3.0' x 3.0'    |  |
| 12"                                | 3.0' x 3.0'      | 3.5' x 3.5'    |  |

THRUST BLOCK DETAILS N.T.S.

## WATER DETAILS

- ALL WORK AND MATERIAL OF WATER LINE SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS SET FORTH BY THE TOWN OF SOUTH KINGSTOWN AND KINGSTON WATER DISTRICT. INSTALLATION AND MATERIALS TO CONFORM TO AWWA SPECIFICATIONS AND ART. III OF THE SOUTH KINGSTOWN TOWN ORDINANCES. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO ORDER OF MATERIALS AND WATER MAIN INSTALLATION.
- WATER MAIN INSTALLATION SHALL BE INSPECTED BY THE TOWN OF SOUTH KINGSTOWN PRIOR TO BACKFILLING THE TRENCH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE TOWN OF SOUTH KINGSTOWN FIVE (5) DAYS PRIOR TO START OF CONSTRUCTION.
- CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO AWWA REQUIREMENTS FOR SERVICE AND MAIN INSTALLATIONS.
- THE CONTRACTOR SHALL NOTIFY THE DIRECTOR OF WATER SUPPLY AT LEAST TWO WORKING DAYS IN ADVANCE FOR FINAL INSPECTION.
- WHENEVER, IN THESE SPECIFICATIONS, REFERENCE IS MADE TO THE REQUIREMENTS OF AWWA, ANSI, ASTM OR ANY OTHER STANDARD SPECIFICATION, THE REFERENCE IS MADE TO THE LATEST REVISIONS OR MODIFICATIONS OF SUCH REQUIREMENTS AND SPECIFICATIONS.
- ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA AND ANSI STANDARDS AND THE MANUFACTURER'S SUGGESTED RECOMMENDATIONS FOR INSTALLATIONS.
- PIPELINES SHALL BE CONSTRUCTED IN DRY TRENCHES AND LAID TO THE LINE GRADE. WHENEVER PIPE IS TO BE INSTALLED IN SATURATED SOIL CONDITIONS A BEDDING OF PROCESSED GRANULAR FILTER MATERIAL SHALL BE PROVIDED.
- ALL BENDS, CROSSES, TEES, END CAPS AND PLUGS, VALVES AND ANY OTHER APPURTENANCES SHALL BE RESTRAINED WITH THRUST BLOCKS, STRAPPING OR ANCHORS.
- JOINING OF MECHANICAL AND PUSH ON TYPE JOINTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AWWA STANDARD C-600, AND THE TOWN OF SOUTH KINGSTOWN SPECIFICATIONS. RUBBER GASKETS AND RINGS SHALL BE SUITABLE FOR USE WITH POTABLE WATER AND THOROUGHLY CLEANED TO REMOVE OIL, GRIT, AND OTHER FOREIGN MATTER PRIOR TO ASSEMBLY. THE GASKETS SHALL BE INSPECTED BY THE DIRECTOR OF WATER SUPPLY OR HIS AGENT TO INSURE THAT THEY ARE ACCEPTABLE.
- ALL FITTINGS USED FOR SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH AWWA C-800 AND SOUTH KINGSTOWN SPECIFICATIONS.
- VALVES USED SHALL BE IN ACCORDANCE WITH AWWA C-500 SERIES, AND THE TOWN OF SOUTH KINGSTOWN REGULATIONS. VALVES SHALL BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILIENT SEAT GATE STYLES AS FOLLOWS:
  - MUELLER CORPORATION STOP DOUBLE DISC PARALLEL SEAT.
  - AMERICAN DARLING VALVE RESILIENT MODEL CRS-80.
- BLOW-OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-800 SERIES, AND THE TOWN OF SOUTH KINGSTOWN.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH MUELLER A421, AWWA C-502 "DRY BARREL FIRE HYDRANTS" AND THE TOWN OF SOUTH KINGSTOWN SPECIFICATIONS.
- HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED PIPELINE IN ACCORDANCE WITH AWWA C-600, AND TOWN SPECIFICATIONS.
- ALL PIPE SHALL BE DISINFECTED PRIOR TO BEING ACTIVATED IN ACCORDANCE WITH AWWA B-300, AWWA C-601 AND TOWN SPECIFICATIONS.
- DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA /C111/A21.11. AMERICAN MANUFACTURER ONLY.
- FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET ANSI/AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.

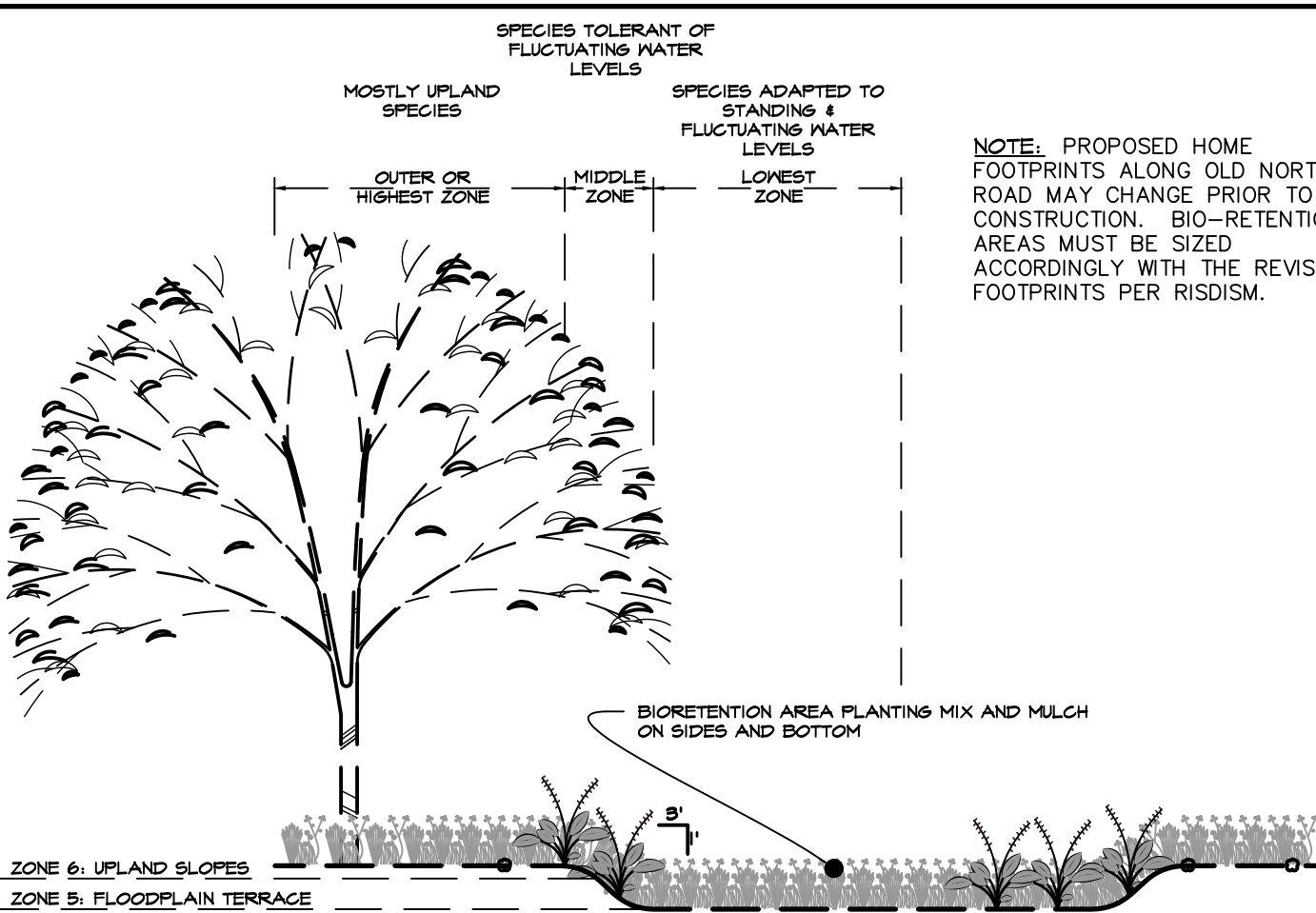
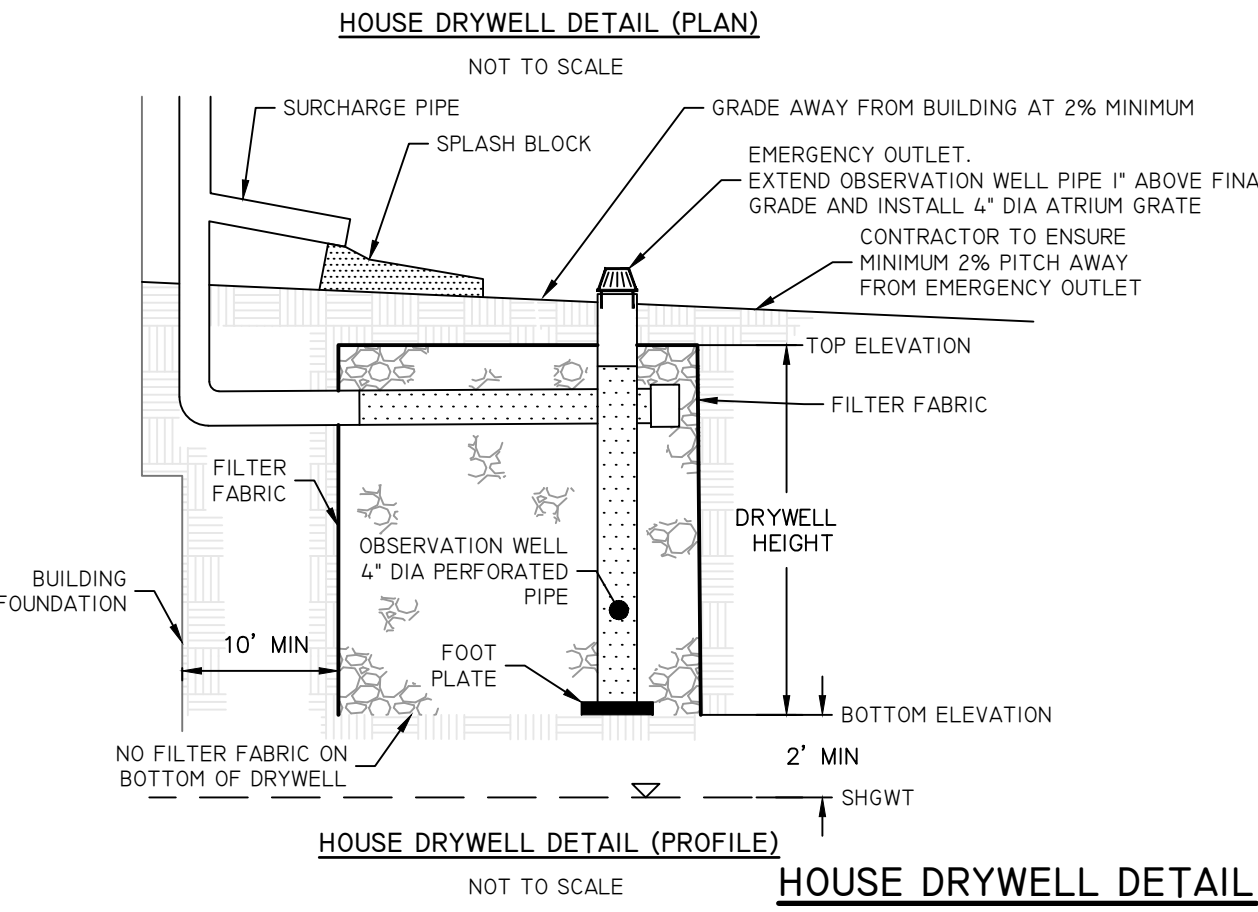
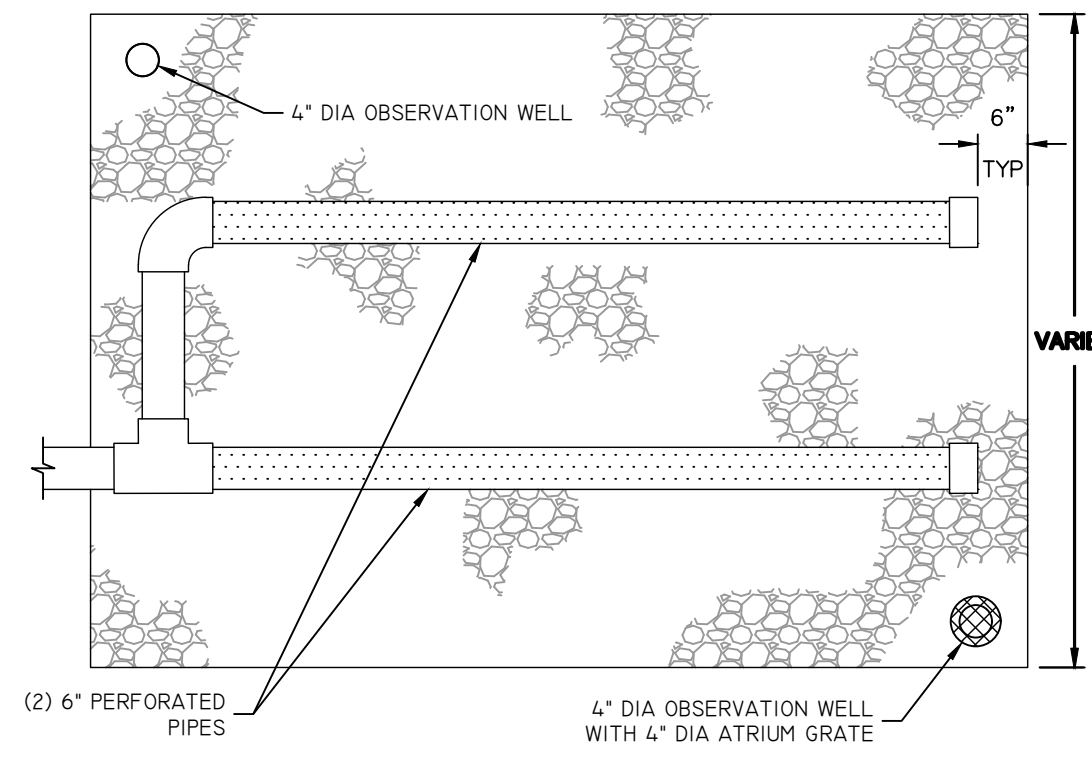
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL STATE AND TOWN PERMITS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS RELATED TO INSTALLATION OF THE WATER MAIN.
- EXCAVATIONS THAT EXTEND INTO PUBLIC RIGHT -OF-WAY SHALL BE BACKFILLED AND COMPACTED IN 12" LIFTS. A TEMPORARY SURFACE COURSE IS TO BE APPLIED. FINAL BINDER AND FINISH COURSE TO BE PLACED AFTER REMOVAL OF TEMPORARY PAVEMENT AND COMPACTION OF GRAVEL BASE. CONTRACTOR SHALL MAKE ROAD PASSABLE FOR ONE LANE OF TRAFFIC AT ALL TIMES.
- CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO DIGGING ANY TRENCHES.
- WHEN WORK IS NOT IN PROGRESS AND AT THE END OF EACH DAY, ALL OPEN ENDS OF THE PIPE AND FITTINGS SHALL BE SECURELY CLOSED.
- DIPRETE ENGINEERING DOES NOT CERTIFY AS TO THE WATER FLOW RATE OR RESIDUAL PRESSURE OF THIS WATER MAIN EXTENSION.

## LEAKAGE AND PRESSURE TESTING FOR WATERMANS

- GENERAL**  
HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED WATERMAIN PIPELINE IN ACCORDANCE WITH AWWA C600, THE TOWN OF SOUTH KINGSTOWN, AND AS SPECIFIED BELOW.  
  
THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.
- TESTING PROCEDURES**  
ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY FILLED WITH POTABLE WATER.  
  
THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI AND MAINTAINED FOR A PERIOD OF NOT LESS THAN ONE (1) HOUR.  
  
ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.  
  
THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:  
a. WATERMANS - DISINFECTION STEP

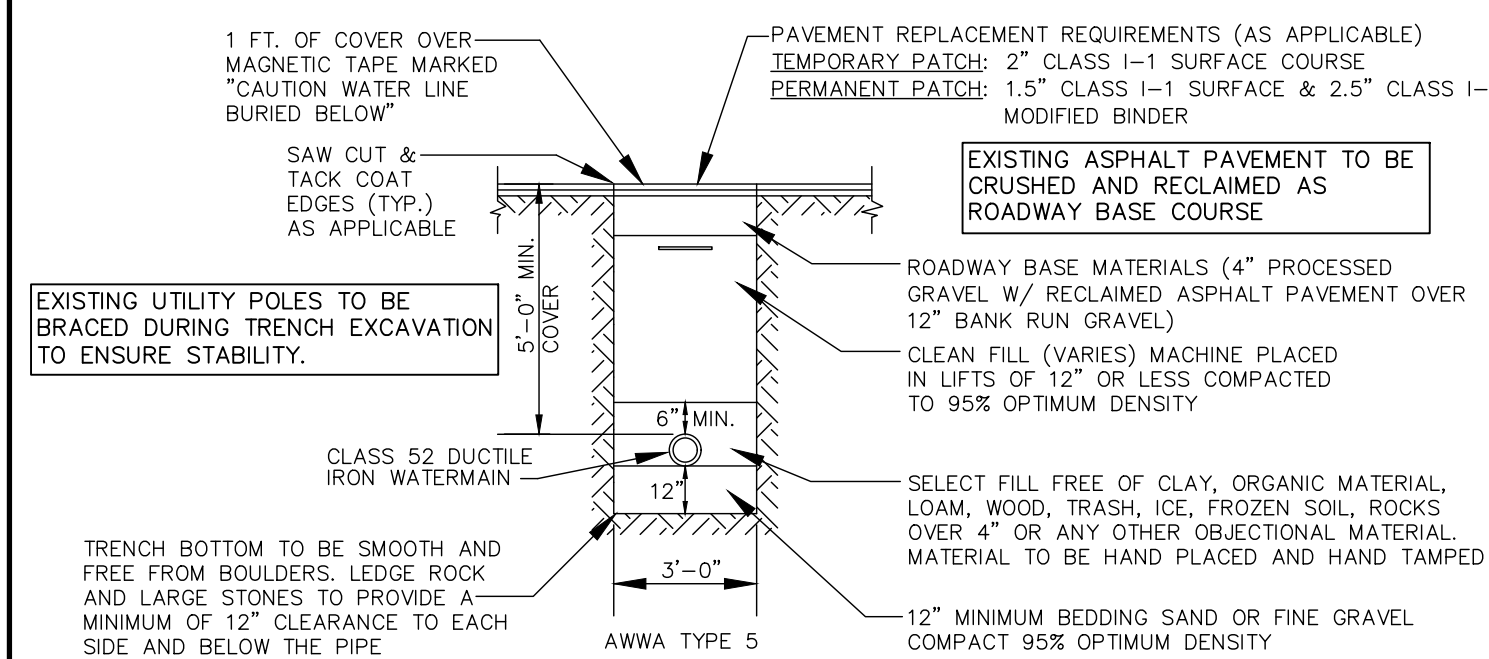
## CONSTRUCTION, MAINTENANCE & INSPECTION NOTES:

- ROOF LEADERS ARE TO BE TIE INTO PROPOSED DRYWELLS.
- DRYWELL AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON DESIGNATED AREA PRIOR TO CONSTRUCTION.
- DRYWELLS TO BE LOCATED DOWNGRADIANT OF THE BUILDING WITH A MINIMUM OF 10' SEPARATION TO THE FOUNDATION.
- UNDER NO CIRCUMSTANCES MAY DRYWELLS BE INSTALLED UPGRADIANT OF A BUILDING.
- PLACE FILTER FABRIC ON SIDES OF TRENCH AND FILL WITH CRUSHED, WASHED STONE.
- OVERLAP FILTER FABRIC ON THE TOP OF THE FILTER STONE. BACK FILL WITH CLEAN FILL TO FINISH GRADE.
- MONITORING OF WATER LEVELS WITHIN THE INSPECTION PORT AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN DRYWELL SYSTEM 72 HOURS AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF THE SYSTEM.
- MAINTENANCE OF ALL DRYWELL AND DRAINAGE COMPONENTS IS THE RESPONSIBILITY OF THE OWNER, INCLUDING MONITORING OF WATER LEVELS AS NECESSARY.



## BIORETENTION AREA-CROSS SECTION

NOT TO SCALE

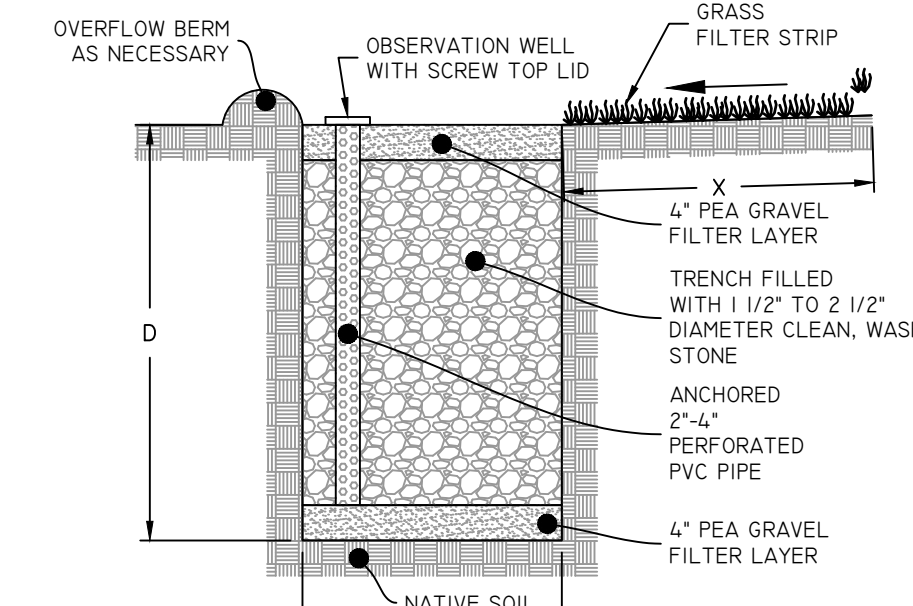


WATER TRENCH DETAIL N.T.S.

| DRYWELL LOT | DEPTH   | LENGTH & WIDTH |
|-------------|---------|----------------|
| 8           | 0.50 FT | 10 FT X 9 FT   |
| 13          | 0.50 FT | 10 FT X 9 FT   |
| 14          | 0.50 FT | 13 FT X 13 FT  |
| 15          | 1 FT    | 8 FT X 8 FT    |
| 16          | 3 FT    | 7 FT X 7 FT    |

## DRYWELL TABLE

NOT TO SCALE



## STONE INFILTRATION TRENCH

NOT TO SCALE

## BIORETENTION AREA-PLANTING NOTES

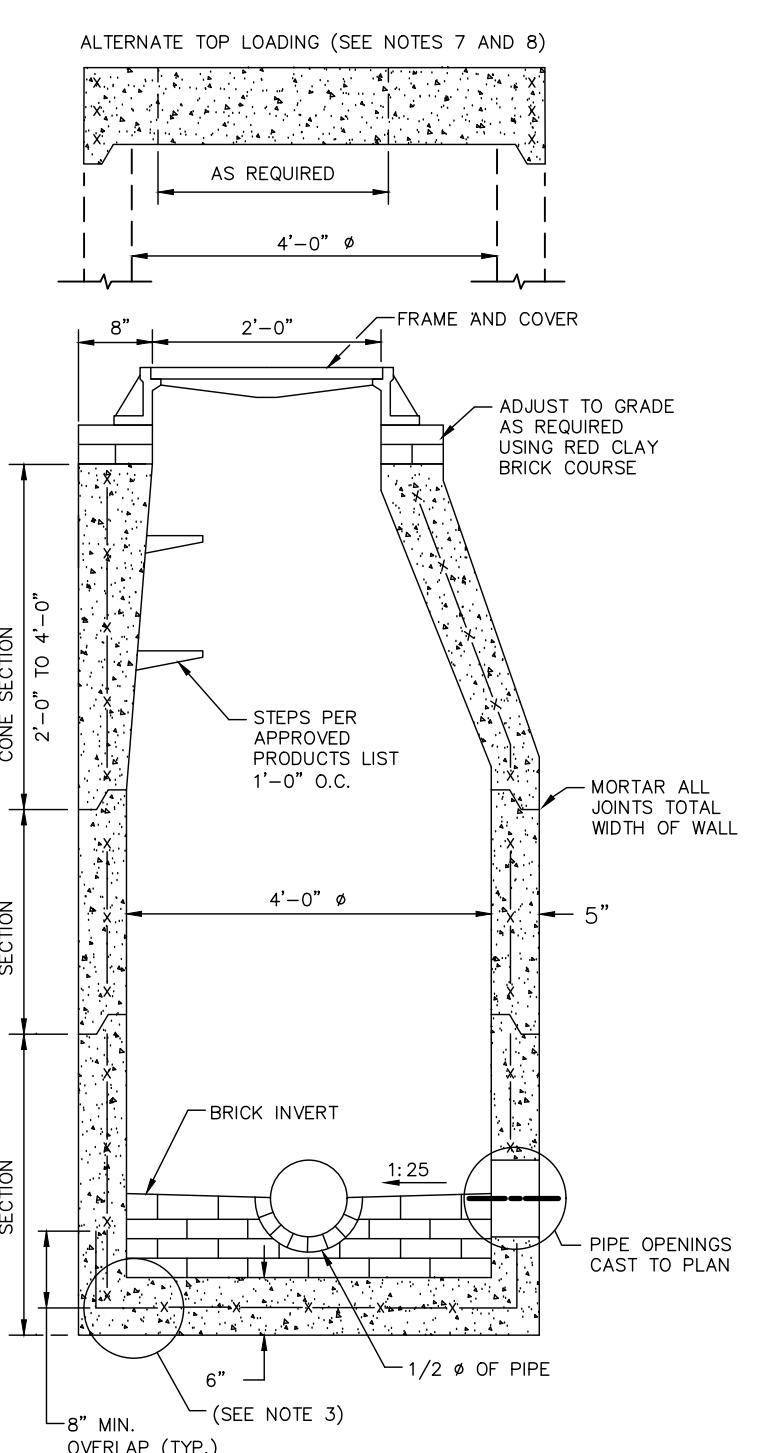
- THE BIORETENTION FACILITIES HAVE BEEN DESIGNED IN ACCORDANCE WITH APPENDIX B.4.3 OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL AND THE RHODE ISLAND COASTAL PLANT GUIDE, AND PLANTED WITH SPECIES APPROPRIATE FOR THE HYDROLOGIC ZONES PRESENT IN EACH FACILITY AS DESCRIBED IN APPENDIX B, B.4, TABLE B-1.
- AFTER THE BIORETENTION FACILITY HAS BEEN CONSTRUCTED, AS DESCRIBED IN THE DETAIL ON THE ENGINEERING PLANS, THE SURFACE SHALL BE RAKED SMOOTH AND THE PLANTS SHALL BE INSTALLED WHERE SHOWN ON THIS PLAN.
- BEFORE THE PLANTS ARE INSTALLED, 1/2" OF COMPOSTED HARDWOOD MULCH SHALL BE MIXED INTO THE TOP 4" OF PLANTING SOIL. AFTER THE PLANTS ARE INSTALLED, AN ADDITIONAL 1/2" OF MULCH SHALL BE APPLIED. THE MULCH SHALL BE SHREDDED HARDWOOD MULCH THAT IS WELL AGED (STOCKPILED OR STORED FOR AT LEAST SIX (6) MONTHS, UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS NEED SEEDS, SOIL, ROOTS, ETC.). GRASS CLIPPINGS SHALL NOT BE USED.

## BIORETENTION AREA-PLANTING MIX

| BOTANICAL NAME          | COMMON NAME        | SIZE   | SPACING/NOTES                              |
|-------------------------|--------------------|--------|--|
| ASCLEPIAS TUBEROSA      | BUTTERFLY MILKWEED | 1 GAL* | 12" O.C. PLANT ON UPPER SLOPES ONLY        |
| ASTER NOVAE ANGLAE      | NEW ENGLAND ASTER  | 1 GAL* | 12" O.C.                                   |
| BAPTISIA TINCTORIA      | WILD INDIGO        | 1 GAL* | 18" O.C. PLANT ON UPPER SLOPES ONLY        |
| ELYMUS VIRGINICUS       | VIRGINIA WILD RYE  | 1 GAL* | 12" O.C. PLANT ON UPPER & SIDE SLOPES ONLY |
| VERONICA NOVIBORACENSIS | NEW YORK IRONWEED  | 1 GAL* | 18" O.C. PLANT ON BOTTOM OF BASIN          |
| ERAGROSTIS SPECTABILIS  | PURPLE LOVE GRASS  | 1 GAL* | 12" O.C. PLANT ON UPPER SLOPES ONLY        |
| EUPATORIUM PURPUREUM    | JOE PYE WEED       | 1 GAL* | 18" O.C.                                   |
| IRIS VERSICOLOR         | BLUE FLAG IRIS     | 1 GAL* | 18" O.C.                                   |
| SCHIZACHYRIUM SCOPARIUM | LITTLE BLUESTEM    | 1 GAL* | 12" O.C. PLANT ON UPPER SLOPES ONLY        |
| SOLIDAGO SEMPERVIRENS   | SEASIDE GOLDENROD  | 1 GAL* | 12" O.C. PLANT ON TOP & SIDE SLOPES ONLY   |

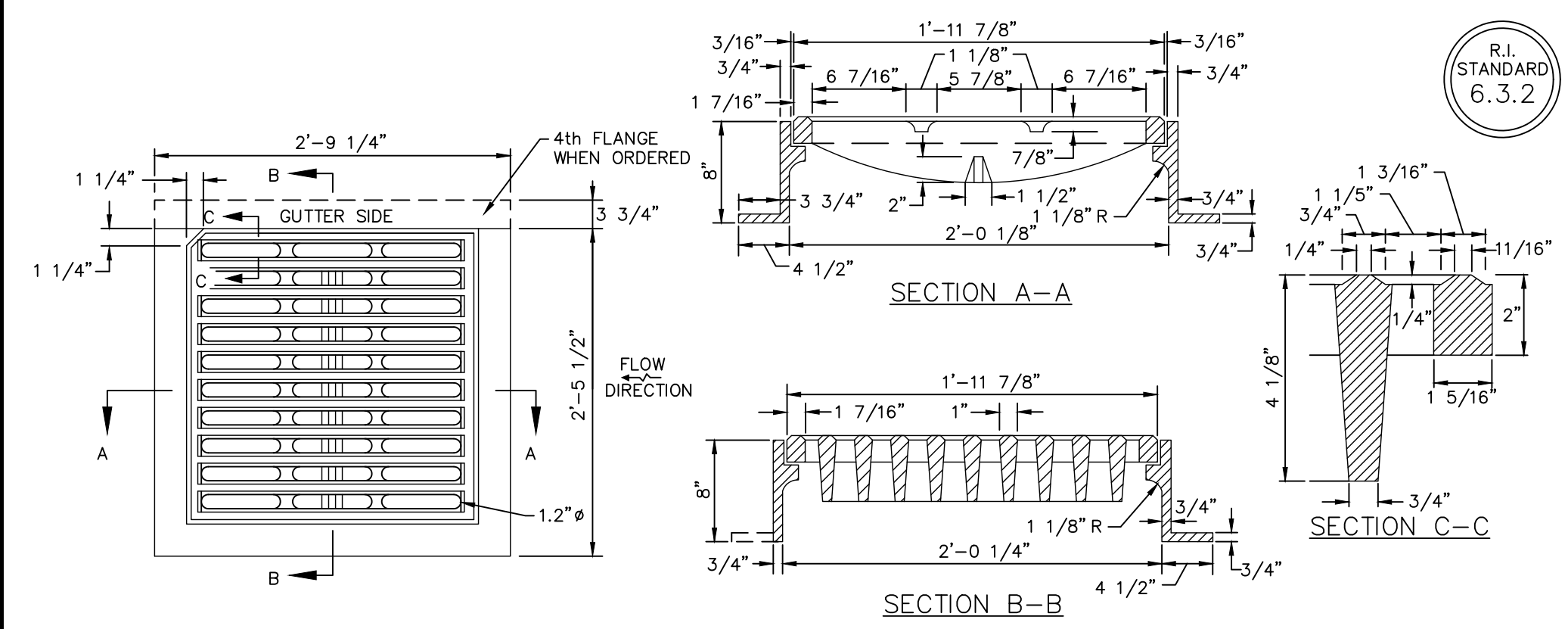
NOTE: THIS BIORETENTION PLANTING MIX SHALL BE PLANTED IN CLUSTERS AT THE SPACE SPECIFIED UNDER THE 'SPACING/NOTES' IN THE PLANT SCHEDULE. THE PLANT CLUSTERS SHALL BE DISTRIBUTED SO THAT APPROXIMATELY 1/3 OF THE BOTTOM AND SIDES SLOPES ARE COVERED WITH PLANTS.

\* RATHER THAN PLANTING CONTAINER PLANTS, THE CONTRACTOR MAY HYDROSEED USING AN EQUIVALENT SEED MIX. THE HYDROSEED SHALL BE APPLIED IN A BONDED 100% WOOD FIBER MATRIX. AN 8' STRIP OF NORTH AMERICAN GREEN SC830 BLANKET SHALL BE STAPLED DOWN THE MIDDLE OF THE BOTTOM OF THE POND. PRIOR TO HYDROSEEDING, THE CONTRACTOR SHALL VERIFY THE HYDROSEED MIX AND METHOD OF APPLICATION WITH THE LANDSCAPE ARCHITECT.

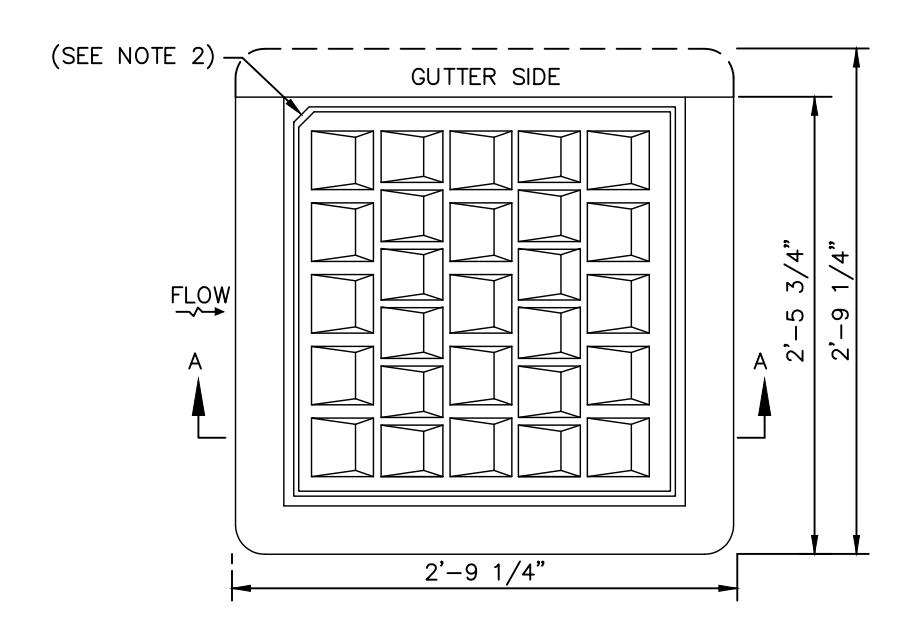


- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
  2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
  3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN. / LIN. FT. (BOTH WAYS).
  4. ONE FOUR MONOLITHIC BASE SECTION.
  5. 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.
  6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
  8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
  9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

**PRECAST 4'-0" ROUND MANHOLE**  
NOT TO SCALE



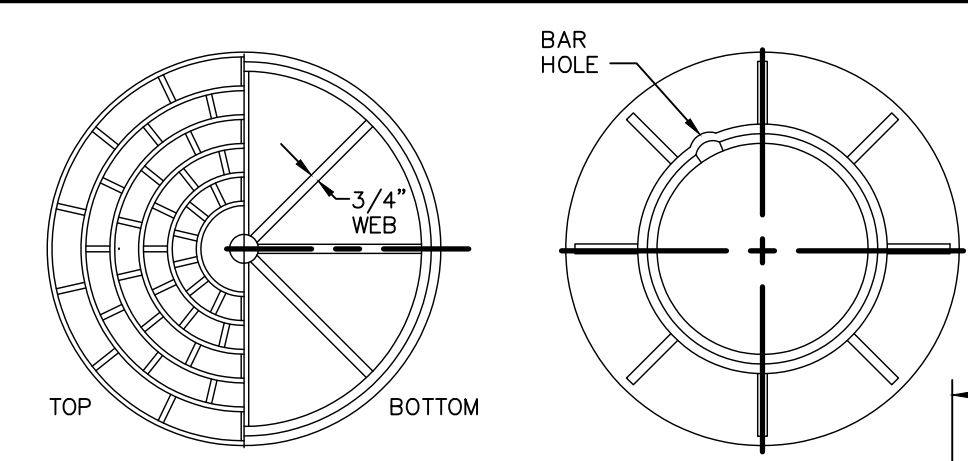
**SQUARE FRAME AND GRATE (BICYCLE SAFE)**  
NOT TO SCALE



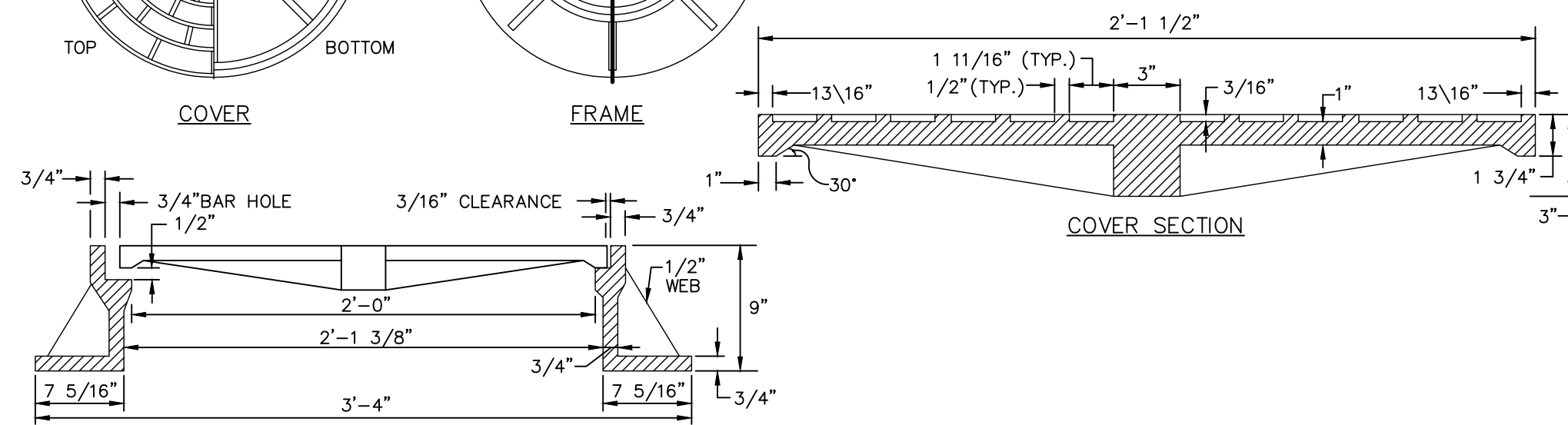
**HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)**  
NOT TO SCALE



- 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.



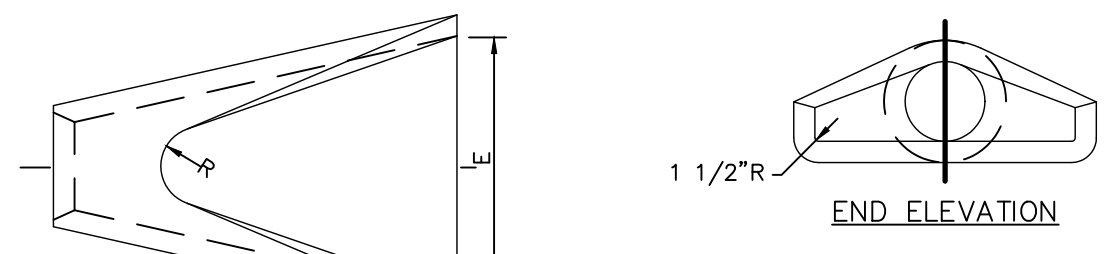
- NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
  2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.



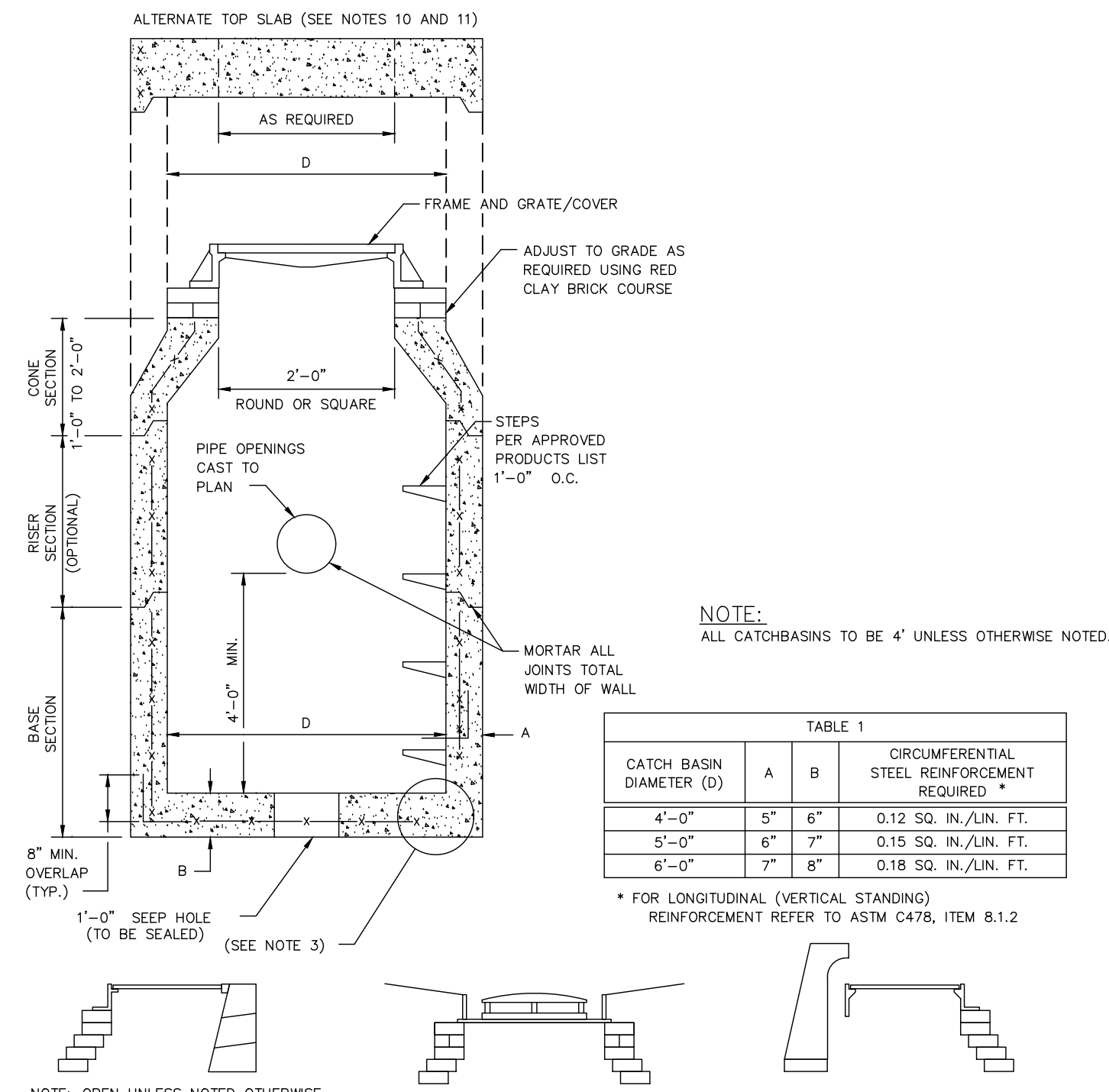
**HEAVY-DUTY ROUND FRAME AND COVER**  
NOT TO SCALE



| DIMENSIONS |        |           |            |           |       |        |        | REINFORCEMENT  |
|------------|--------|-----------|------------|-----------|-------|--------|--------|--|
| DIA.       | A      | B         | C          | D         | E     | R      | T      | ONE LAYER REINFORCEMENT IN CENTER OF EACH WAY (SQ. IN./LIN. FT.) |
| 11'-0"     | 4"     | 2'-0"     | 4'-0 7/8"  | 6'-0 7/8" | 2'-0" | 9"     | 2"     | 0.048  |
| 11'-3"     | 6"     | 2'-3"     | 3'-10"     | 6'-1"     | 2'-6" | 11"    | 2 1/4" | 0.054  |
| 11'-6"     | 9"     | 2'-3"     | 3'-10"     | 6'-1"     | 3'-0" | 12"    | 2 1/2" | 0.060  |
| 2'-0"      | 9 1/2" | 3'-7 1/2" | 2'-6"      | 6'-1 1/2" | 4'-0" | 11-2"  | 3"     | 0.072  |
| 2'-6"      | 11'-0" | 4'-6"     | 11-7 3/4"  | 6'-1 3/4" | 5'-0" | 11-3"  | 3 1/2" | 0.084  |
| 3'-0"      | 1'-3"  | 5'-3"     | 2'-10 3/4" | 8'-1 3/4" | 6'-0" | 11-8"  | 4"     | 0.096  |
| 3'-6"      | 1'-9"  | 5'-3"     | 2'-11"     | 8'-2"     | 6'-6" | 11-10" | 4 1/2" | 0.108  |
| 4'-0"      | 2'-0"  | 6'-0"     | 2'-2"      | 8'-2"     | 7'-0" | 11-10" | 5"     | 0.120  |
| 4'-6"      | 2'-3"  | 6'-9"     | 2'-11"     | 8'-4"     | 7'-6" | 12'-0" | 5 1/2" | 0.132  |
| 5'-0"      | 2'-6"  | 6'-9"     | 3'-3"      | 8'-3"     | 8'-0" | 12'-0" | 6"     | 0.144  |



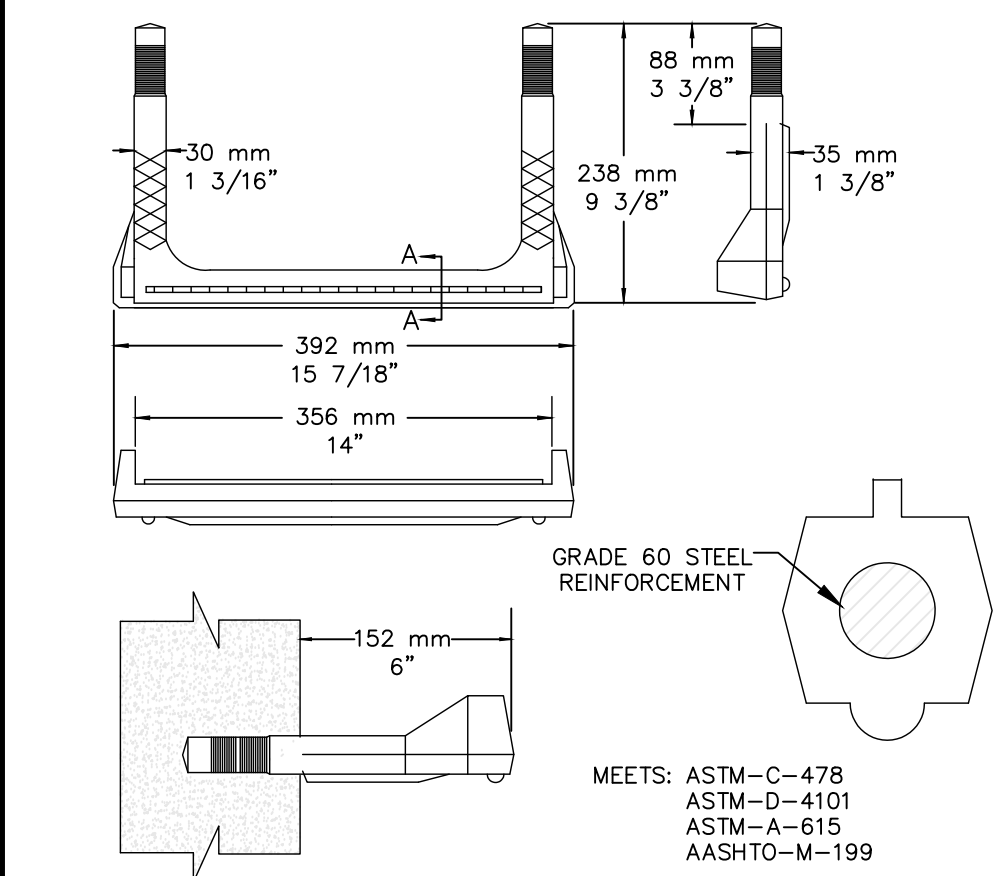
**PRECAST CONCRETE FLARED END SECTION**  
NOT TO SCALE



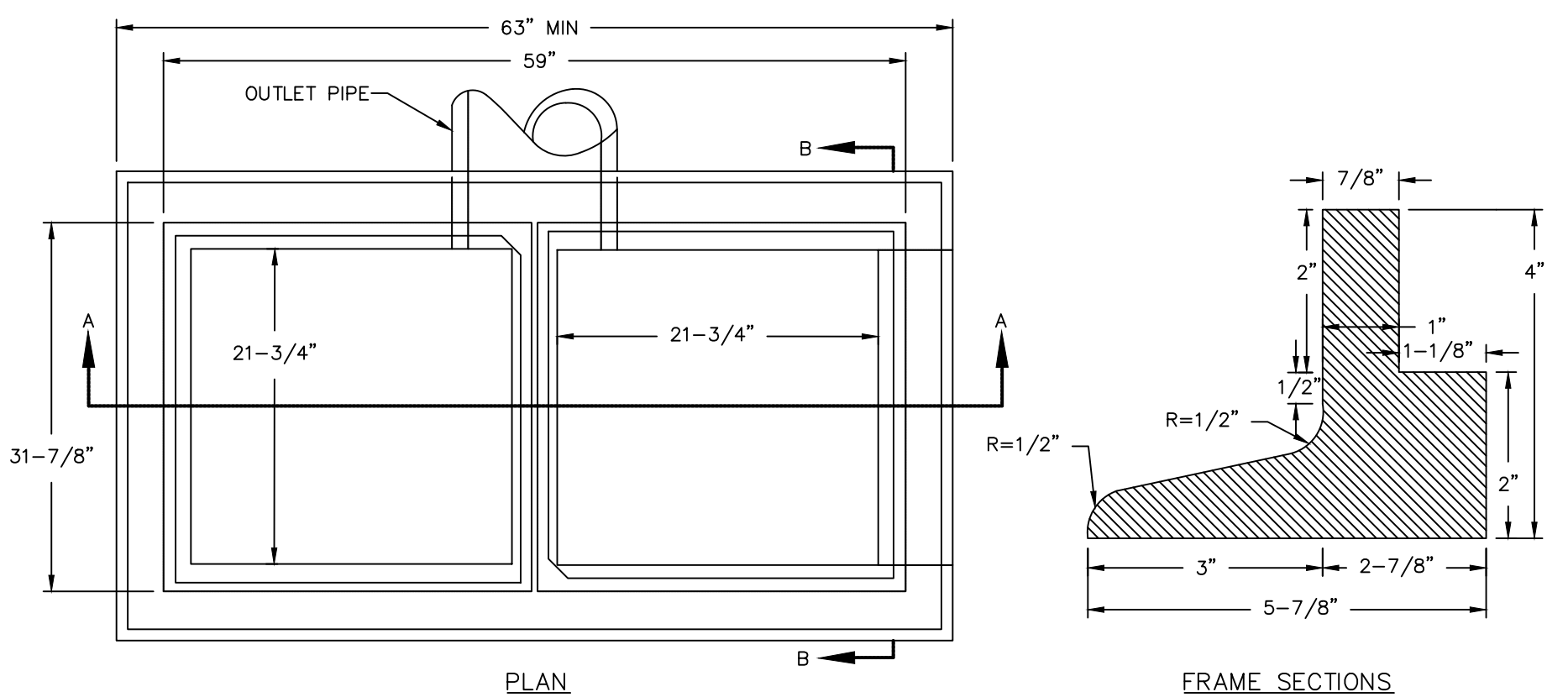
| CATCH BASIN DIAMETER (D) | TABLE 1 |    | CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED * |
|--------------------------|---------|----|--|
|                          | A       | B  |  |
| 4'-0"                    | 5"      | 6" | 0.12 SQ. IN./LIN. FT.                          |
| 5'-0"             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

- NOTE: OPEN UNLESS NOTED OTHERWISE
- TYPE 'D' TYPE 'R' TYPE 'F'
- 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 FOUR 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.

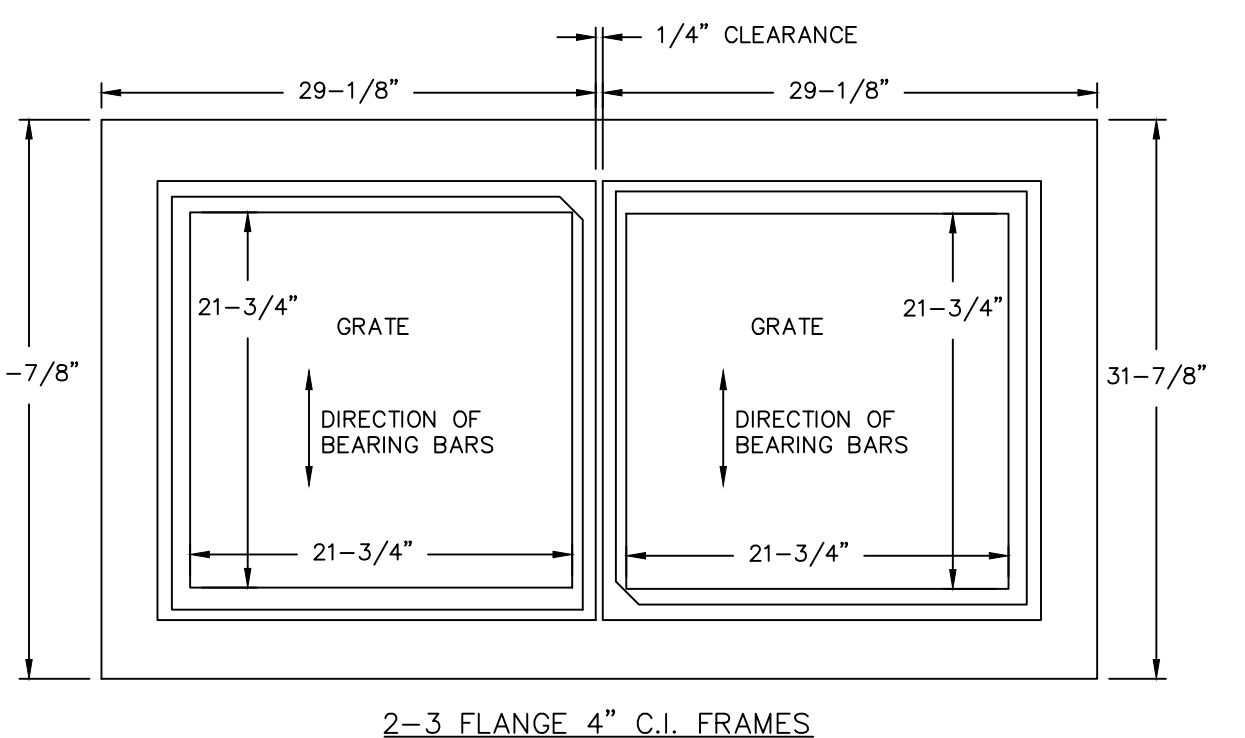
**PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN**  
NOT TO SCALE



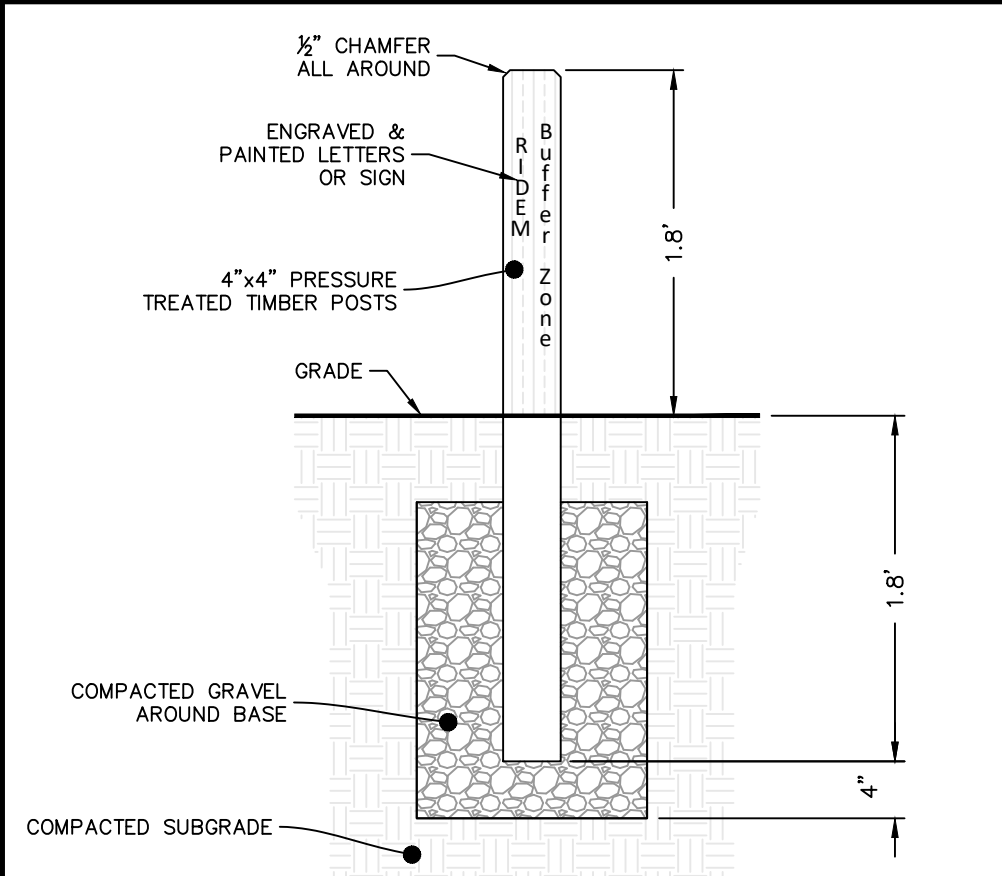
**MANHOLE STEP**  
NOT TO SCALE



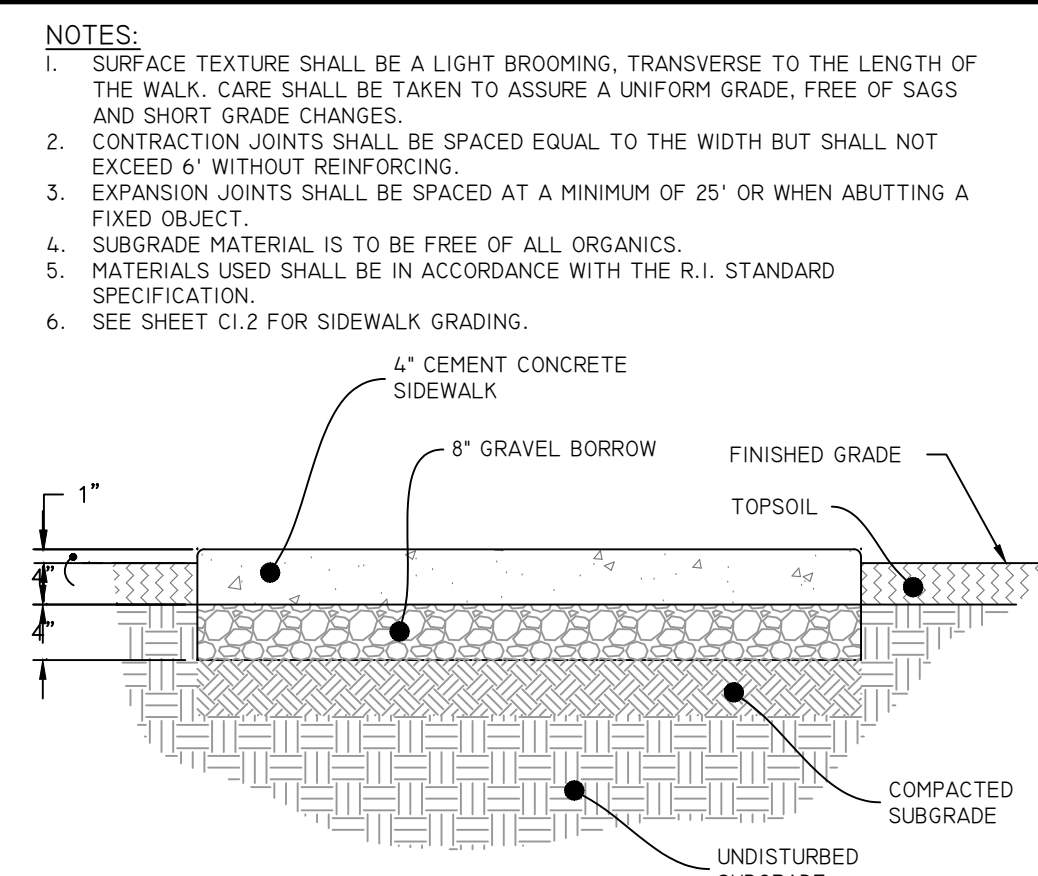
**DOUBLE CATCHBASIN GRATE**  
NOT TO SCALE



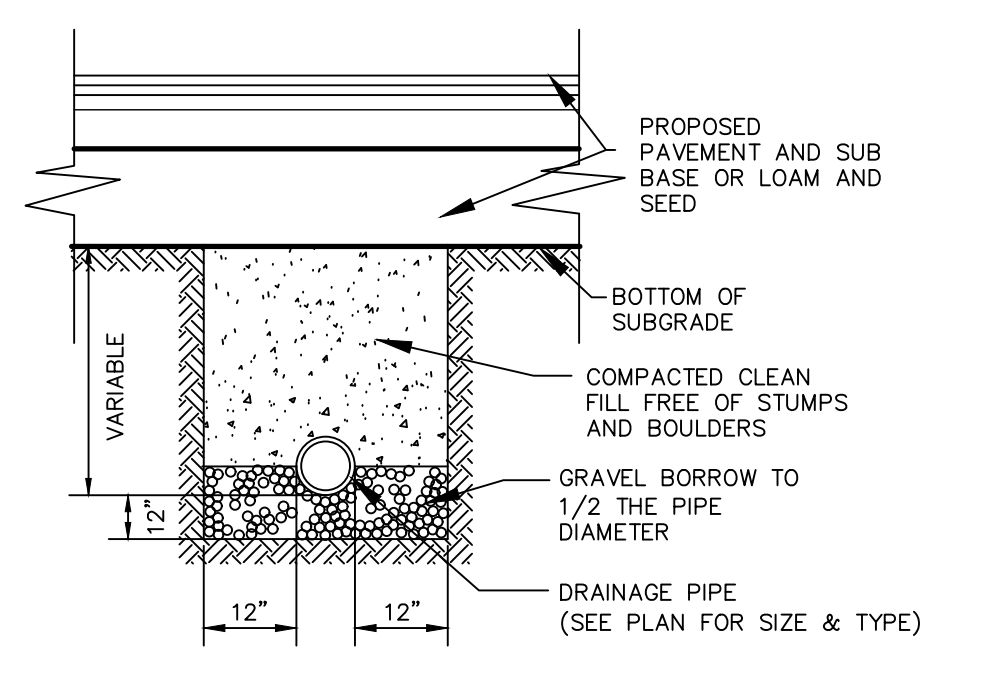
**2-3 FLANGE 4" C.I. FRAMES**



**BUFFER MARKER DETAIL**  
NOT TO SCALE



**TYPICAL SIDEWALK/SLAB CONSTRUCTION (AS SPECIFIED ON PLANS)**  
NOT TO SCALE



**DRAINAGE TRENCH DETAIL**  
NOT TO SCALE