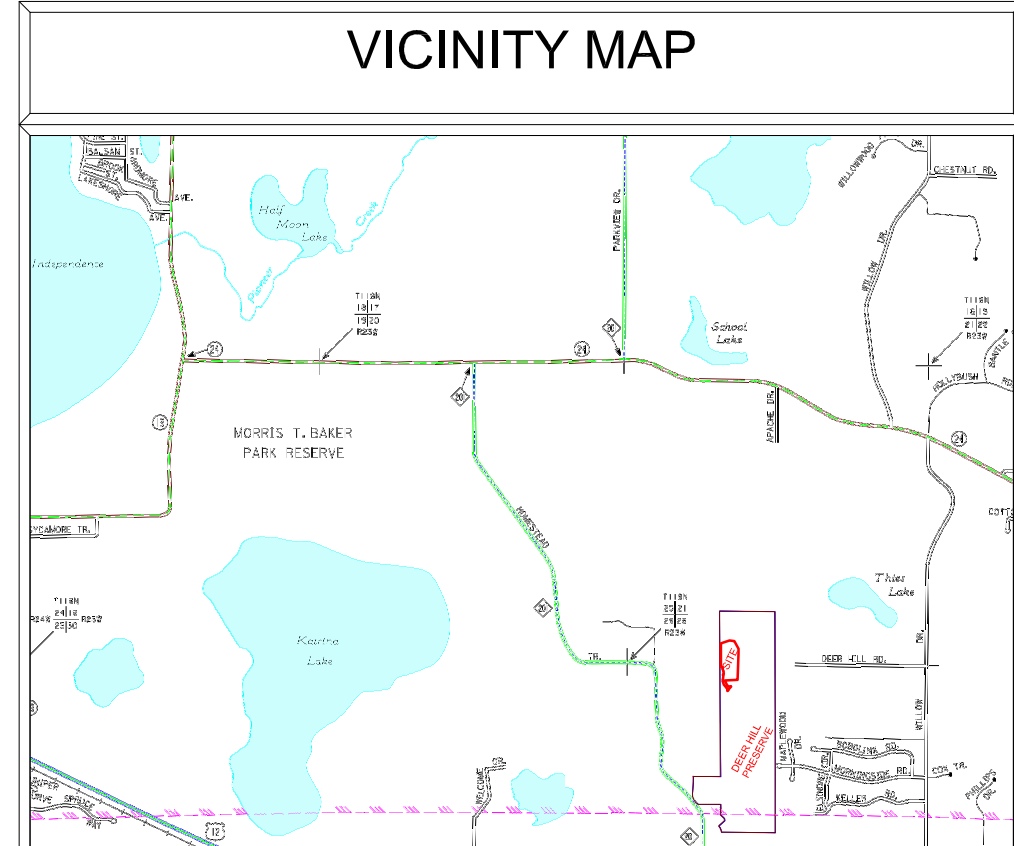


- Work to be done Under 2018 DEERHILL PRESERVE 2ND ADDITION
1. Subgrade Tolerancing for PRIVATE DRIVE
  2. Paving of Deerhill Road – The base course and wear course (bid with alternates #1 – to be completed immediately, and #2 – to be completed in 24 months)
  3. Installation of conduit crossings for minor utilities
  4. Installation of all storm sewer (Deerhill Road and private)
  5. Final Grade Boulevards after Minor Utilities
  6. Finish grading and installation of any drantile in ponds and stormwater associated w/private cul-de-sacs
- Work to be Done by Others
1. Installation of minor utilities
  2. Install street lights and signage
  3. Roadside Swales – Finish grading after Paving and Shouldering
  4. Roadside Swales – Finish grading after Minor Utilities

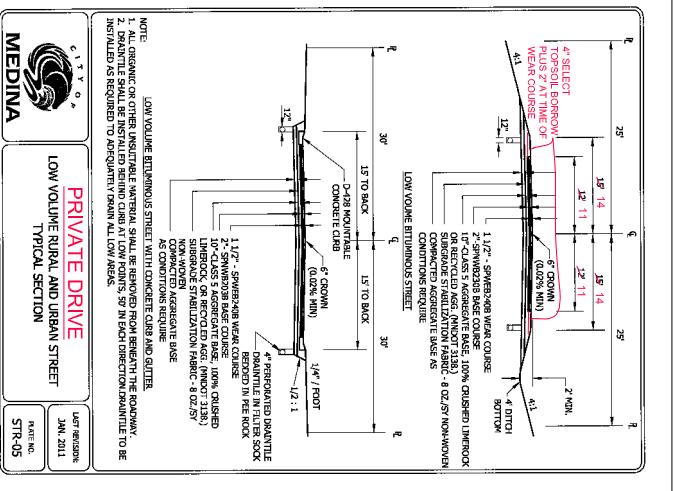
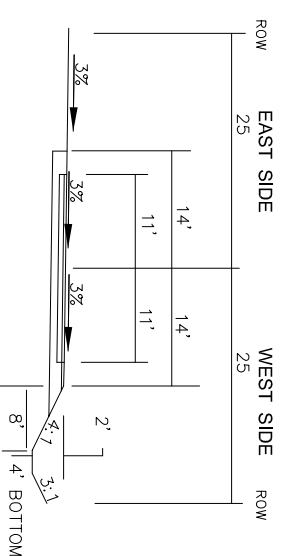


SHEET INDEX TABLE	
SHEET	Description
1	Title Sheet
2	Street
3	Storm Sewer Plan
4	Grading Plan

DRAWING NAME DHP 2ND ADD. DRAWN BY DLS CHECKED BY DLS DATE 03/21/2018	NO.	BY	DATE	REVISIONS	USE (INCLUDING COPYING, DISTRIBUTION, AND/OR CONVEYANCE OF INFORMATION) OF THIS PRODUCT IS STRICTLY PROHIBITED WITHOUT SATHRE-BERGQUIST, INC.'S EXPRESS WRITTEN AUTHORIZATION. USE WITHOUT SAID AUTHORIZATION CONSTITUTES AN ILLEGITIMATE USE AND SHALL THEREBY INDEMNIFY SATHRE-BERGQUIST, INC. OF ALL RESPONSIBILITY. SATHRE-BERGQUIST, INC. RESERVES THE RIGHT TO HOLD ANY ILLEGITIMATE USER OR PARTY LEGALLY RESPONSIBLE FOR DAMAGES OR LOSSES RESULTING FROM ILLEGITIMATE USE.	I HEREBY CERTIFY THAT THIS PLAN OR SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. <i>Daniel L. Schmidt</i> Daniel L. Schmidt, P.E. Date: 4-04-2018 Lic. No. 26147	<p><b>SATHRE-BERGQUIST, INC.</b> 150 SOUTH BROADWAY WAYZATA, MN. 55391 (952) 476-6000</p>	PROJECT NO. ---	<b>MEDINA, MINNESOTA</b>	FILE NO. 7282-010-200 1 4
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DEERHILL PRESERVE 7282-010-200

CULDESAC SUPER ELEVATION



**PRIVATE DRIVE**  
LOW VOLUME RURAL AND URBAN STREET  
TYPICAL SECTION

DATE: JAN 2011  
SCALE: STR-45

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DLS				
DATE				

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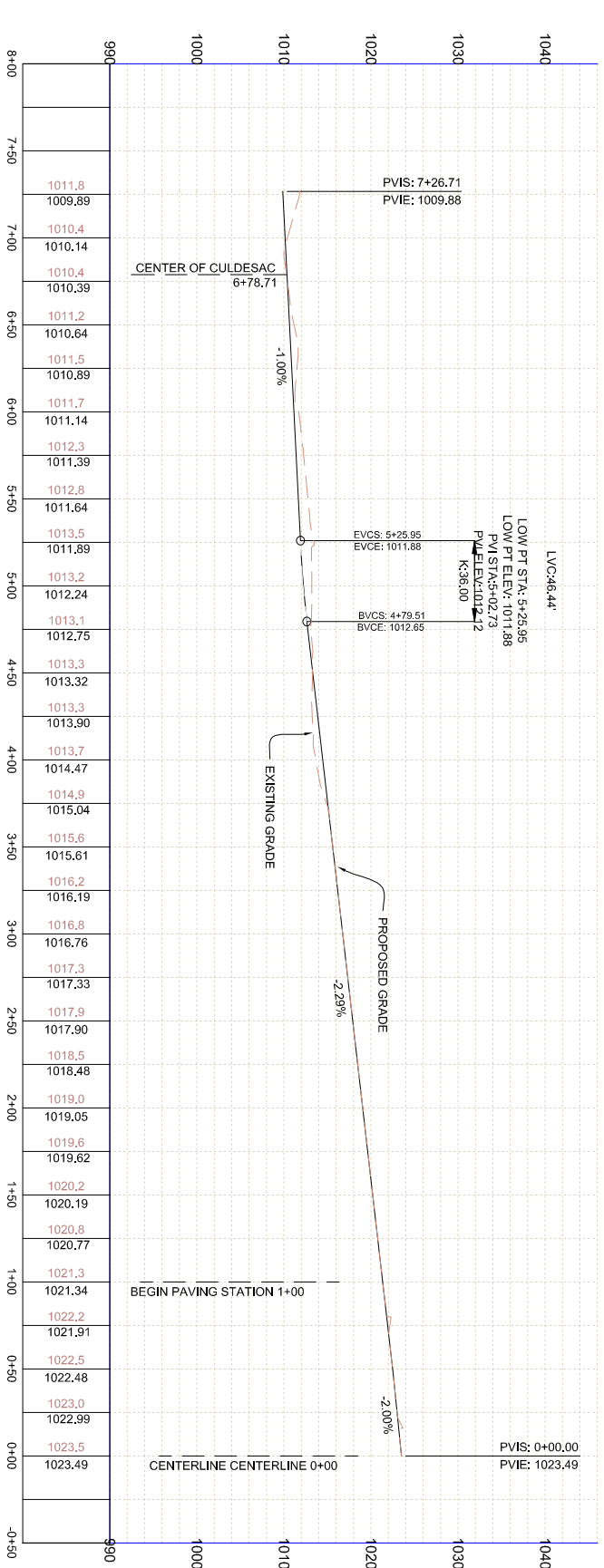
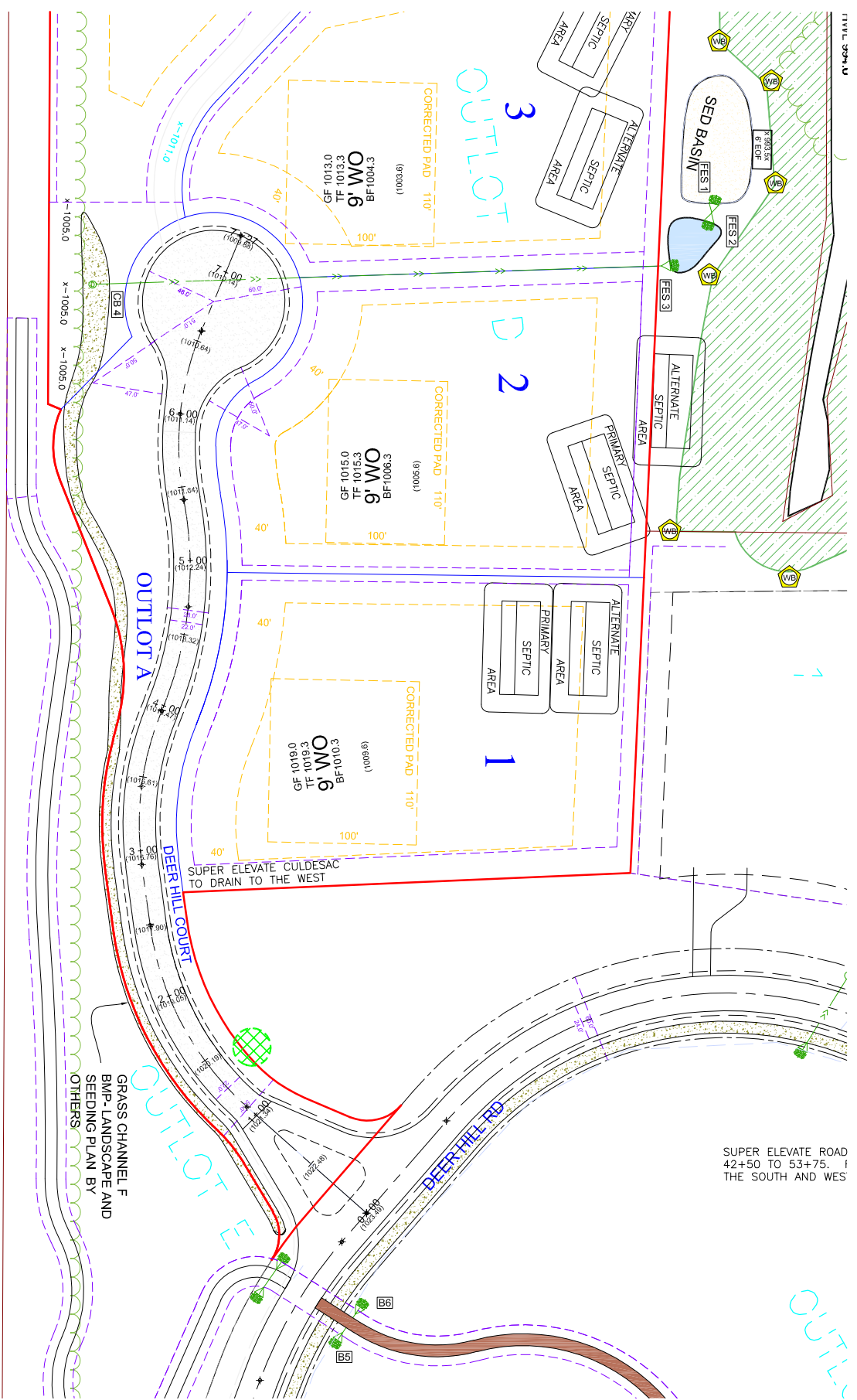
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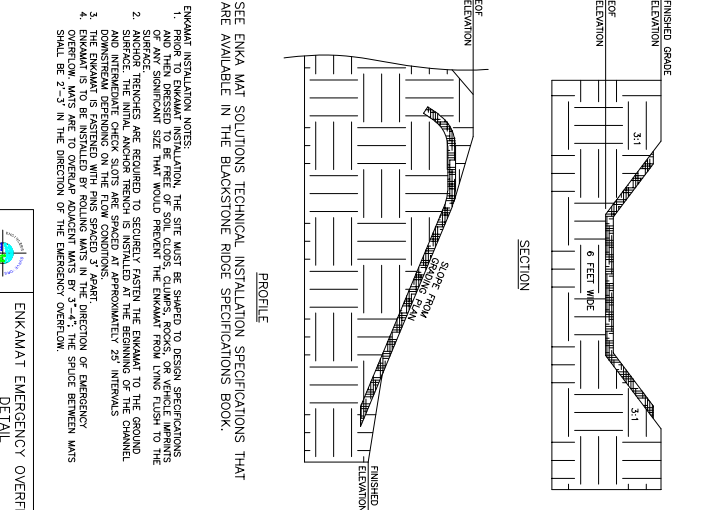
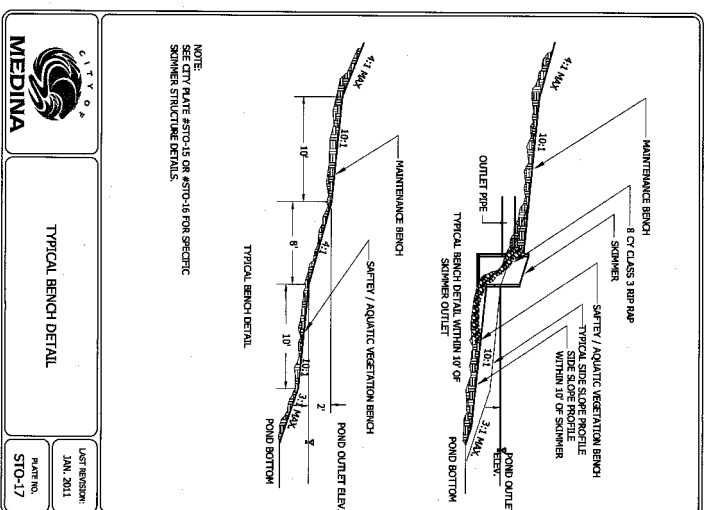
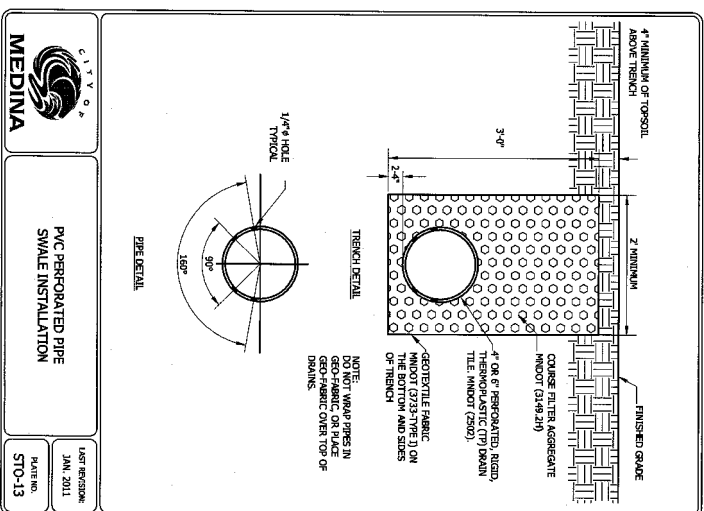
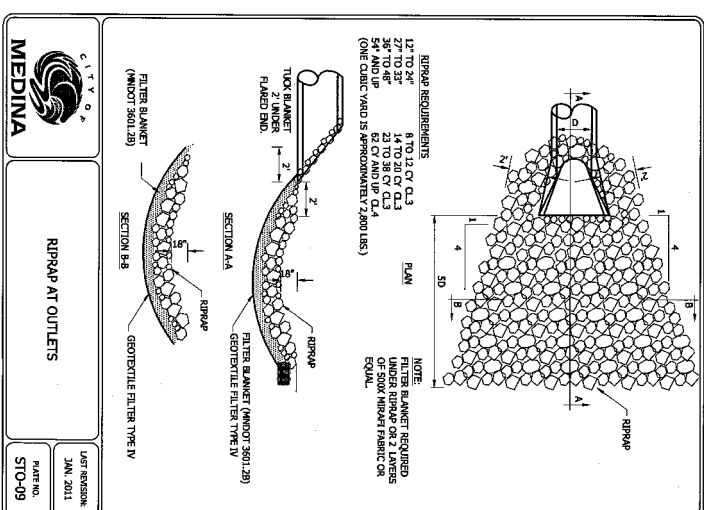
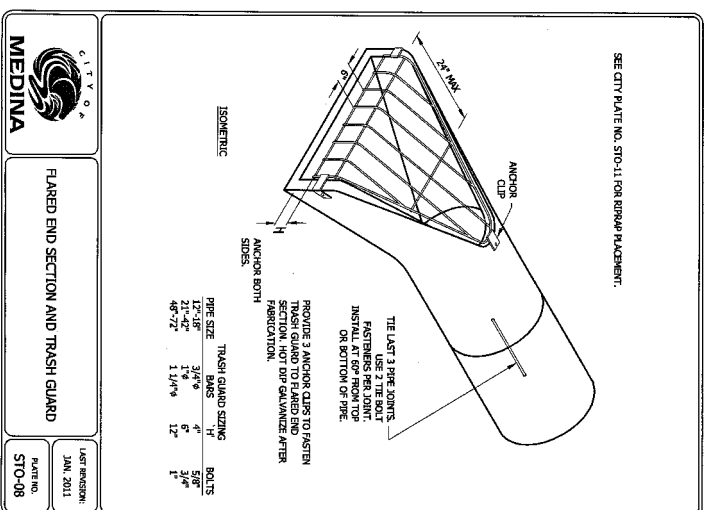
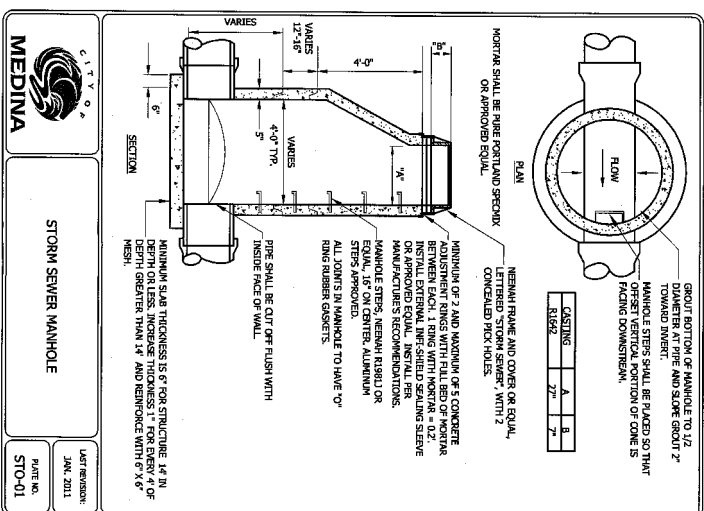
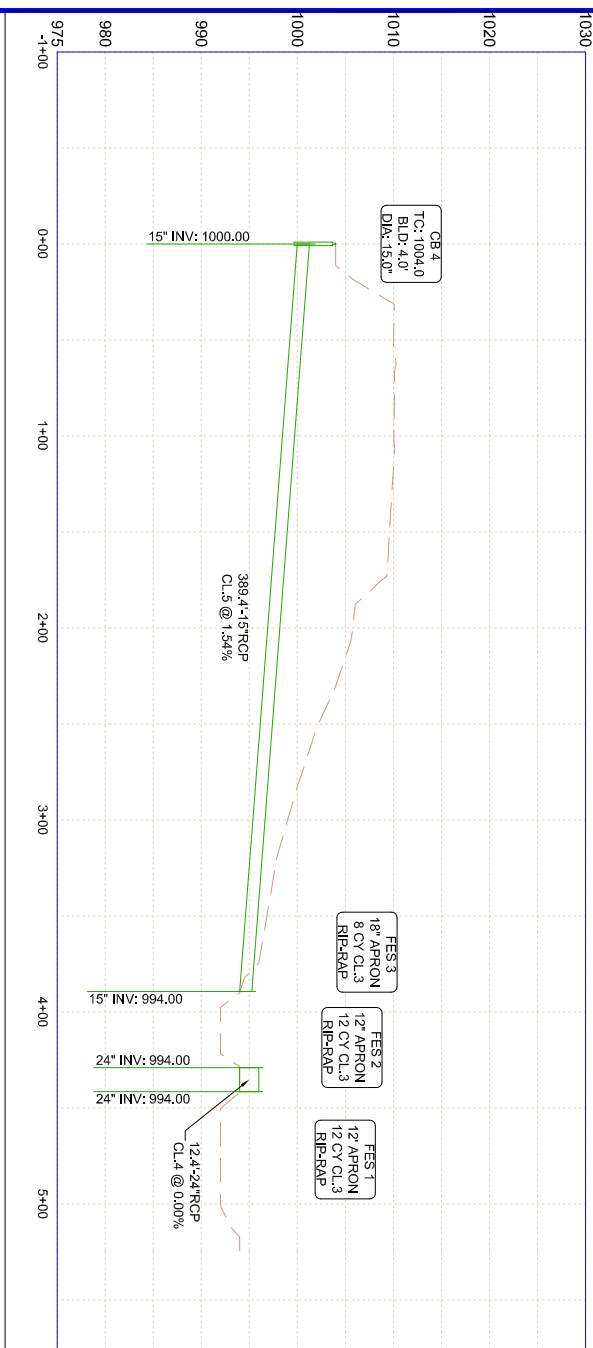
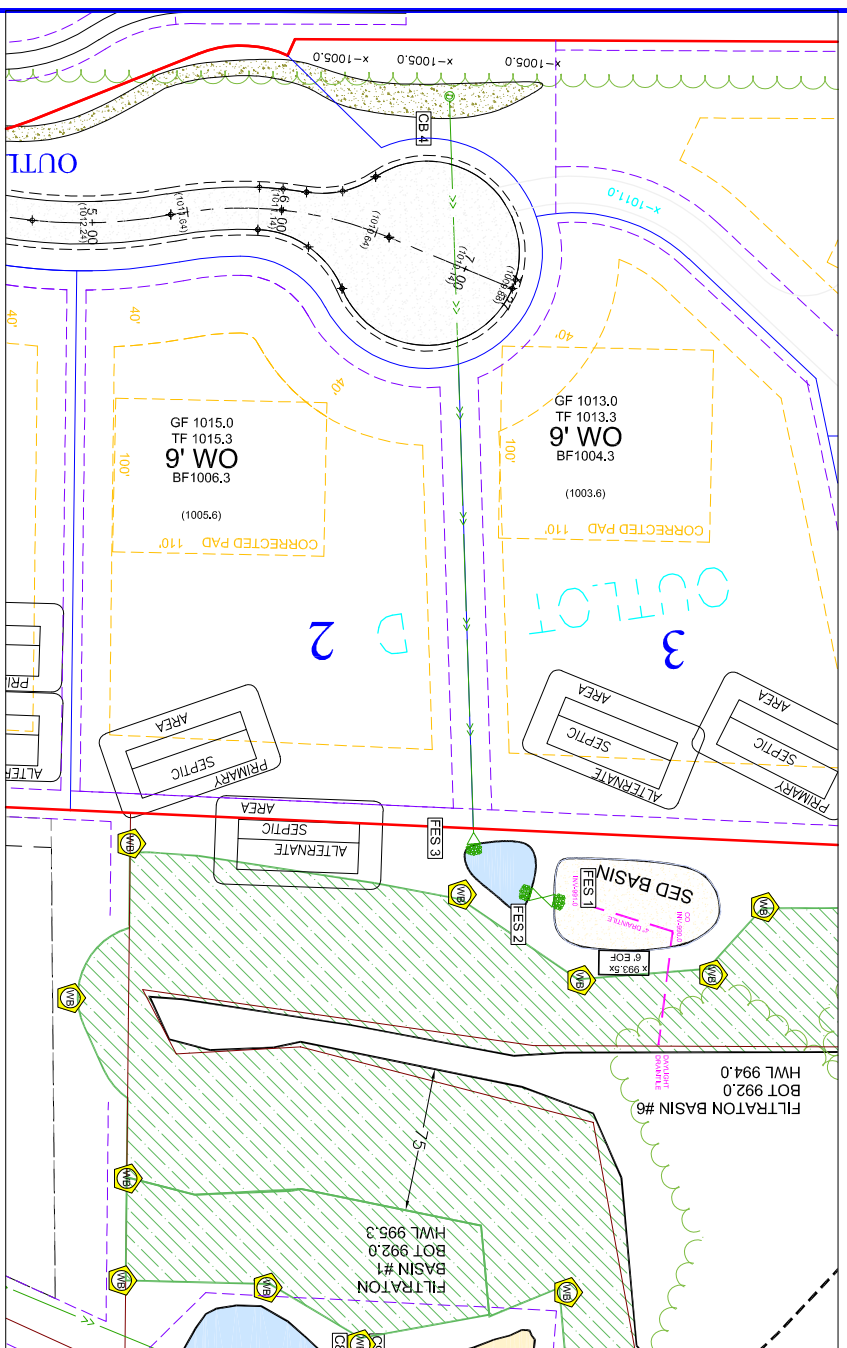
*Daniel L. Schmidt*  
Daniel L. Schmidt, P.E.  
Date: 4-04-2018 Lic. No. 26147

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PLANNERS  
SATHRE-BERGQUIST, INC.  
150 SOUTH BROADWAY WAYZATA, MN 55391 (952) 478-6000

CITY PROJECT NO. ---  
FINAL STREET PLAN  
DEER HILL 2ND ADDITION  
PRDC

FILE NO. 7282-010-200  
2  
4





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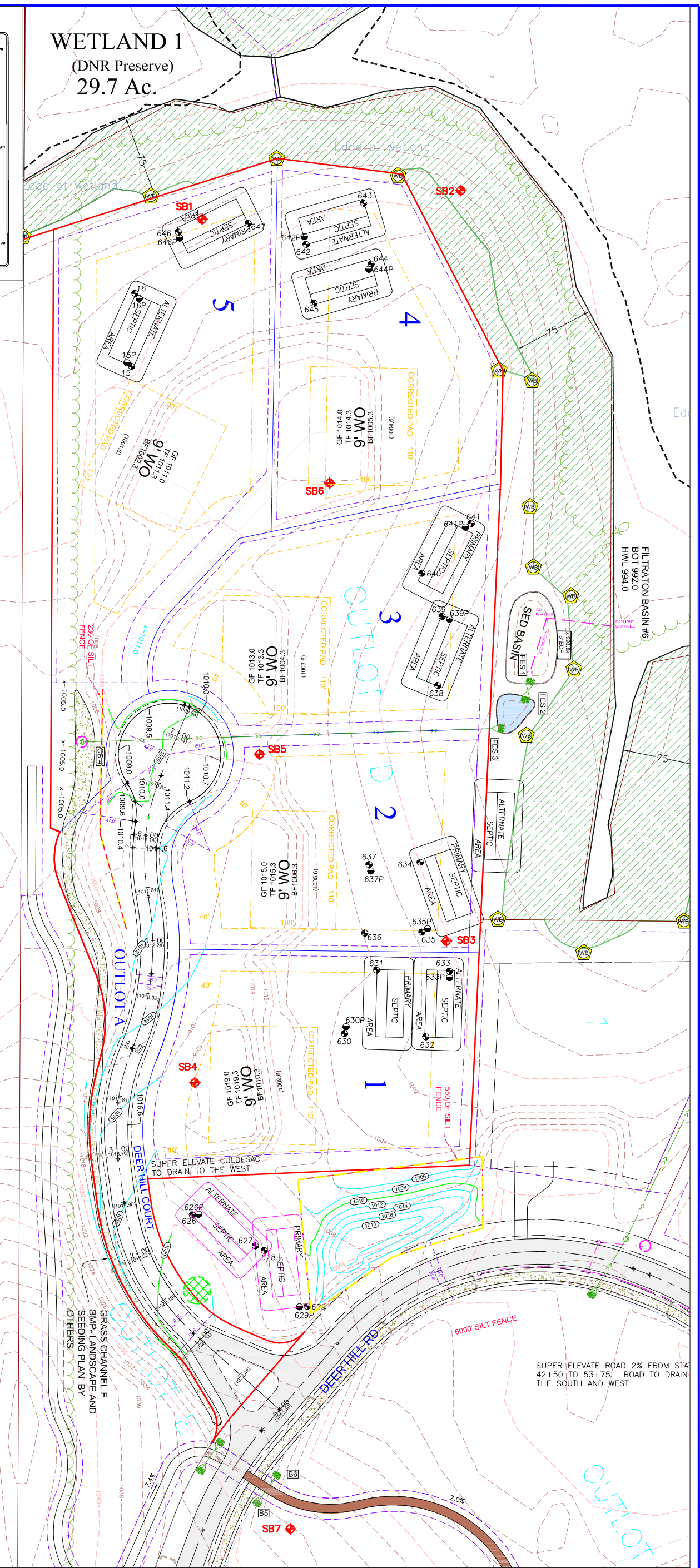
CITY PROJECT NO. ---

**STORM SEWER SHEET**  
**DEER HILL 2ND ADDITION**  
**PRDC**

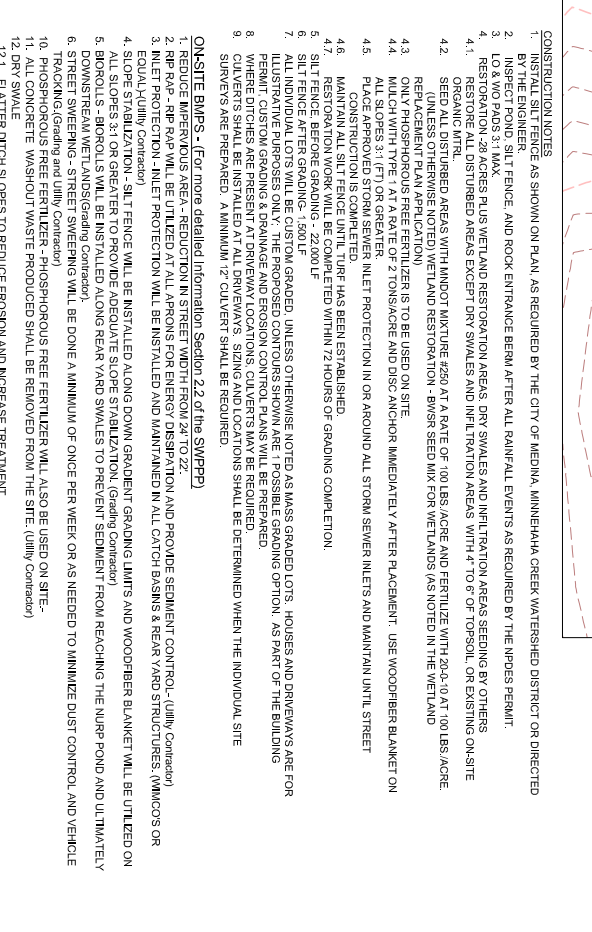
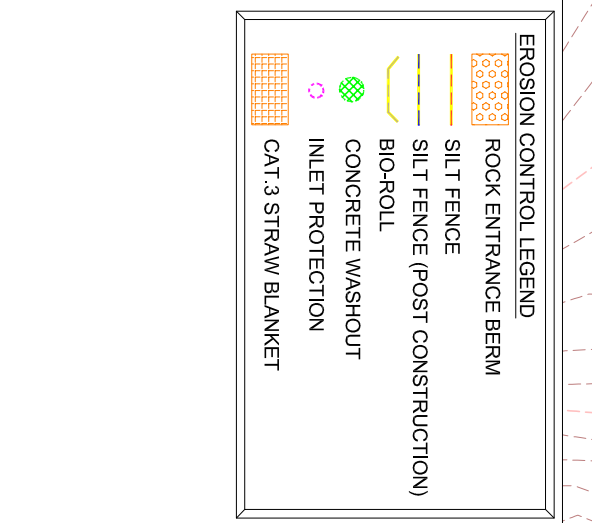
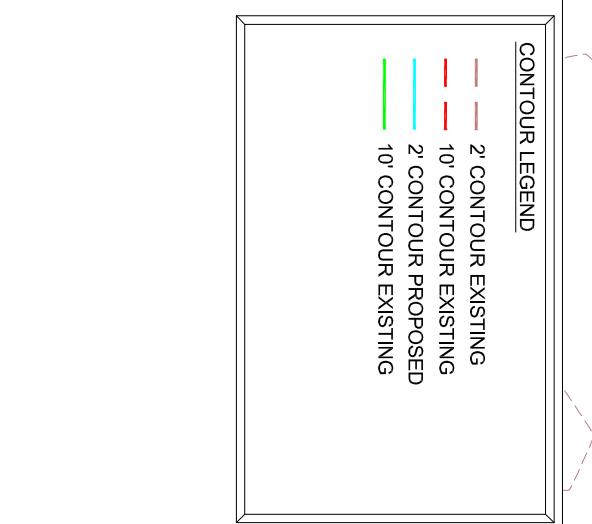
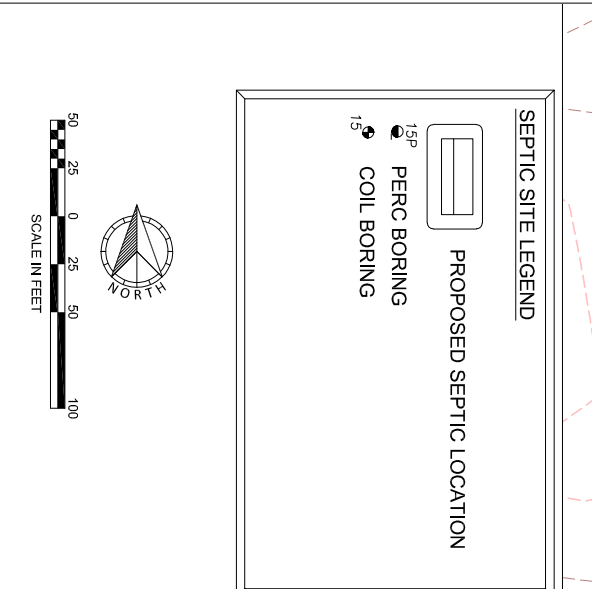
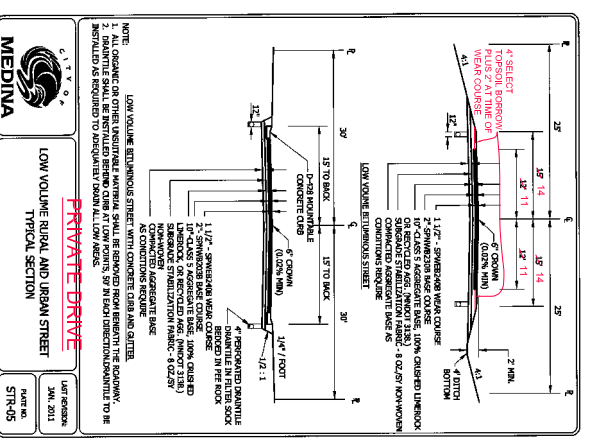
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3

4



# WETLAND 1 (DNR Preserve) 29.7 Ac.



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*Daniel L. Schmidt*  
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**ENGINEERS**  
**PLANNERS**

**SATHRE-BERGQUIST, INC.**  
150 SOUTH BROADWAY WAYZATA, MN 55391 (952) 476-0000

**CITY PROJECT NO.**

**GRADING, DRAINAGE, AND EROSION CONTROL PLAN**

**DEER HILL 2ND ADDITION PRDC**

**FILE NO.** 7282-010-200

**4**

- CONSTRUCTION NOTES**
- INSTALL SILT FENCE AS SHOWN ON PLAN, AS REQUIRED BY THE CITY OF MEDINA, MINNESOTA GREEN WATERSHED DISTRICT OR DIRECTED BY THE ENGINEER.
  - INSPICIT POND, SILT FENCE, AND ROCK ENTRANCE BERM AFTER ALL RAINFALL EVENTS AS REQUIRED BY THE NPDES PERMIT.
  - RESTORATION - 28 ACRES PLUS WETLAND RESTORATION AREAS, GRV SWALES AND INFILTRATION AREAS SEEDING BY OTHERS
  - RESTORE ALL DISTURBED AREAS EXCEPT GRV SWALES AND INFILTRATION AREAS WITH A 7" OF TOPSOIL, OR EXISTING ON-SITE ORGANIC MTRL.
  - SEEDING OF RESTORED AREAS WITH A RATE OF 100 LBS. ACRES AND FERTILIZER WITH 20.0 LB. AT 100 LBS. ACRES. ONLY PHOSPHOROUS FREE FERTILIZER IS TO BE USED ON SITE.
  - MULCH WITH TYPE 1A AT A RATE OF 2 TONS/ACRE AND DISC ANCHORS IMMEDIATELY AFTER PLACEMENT. USE WOODCHIPPER BLANKET ON PLACE APPROVED STORM SEWER INLET PROTECTION IN OR AROUND ALL STORM SEWER INLETS AND MAINTAIN UNTIL STREET CONSTRUCTION IS COMPLETED.
  - MAINTAIN ALL SILT FENCE UNTIL TURF HAS BEEN ESTABLISHED.
  - SILT FENCE BEFORE GRADING - 2200' LF
  - SILT FENCE AFTER GRADING - 1500' LF
  - ALL INDIVIDUAL LOTS WILL BE CUSTOM GRADED, UNLESS OTHERWISE NOTED AS MASS GRADED LOTS. HOUSES AND DRIVEWAYS ARE FOR ILLUSTRATION PURPOSES ONLY. THE PROPOSED CONDITIONS SPECIFICALLY LISTED ARE POSSIBLE GRADING OPTIONS, AS PART OF THE BUILDING WHERE OTHERS ARE PRESENT AT DRIVEWAY LOCATIONS. CURBS MAY BE REQUIRED.
  - CURBS SHALL BE INSTALLED AT ALL DRIVEWAYS. SIGNS AND LOCATIONS SHALL BE DETERMINED WHEN THE INDIVIDUAL SITE SURVEYS ARE PREPARED. A MINIMUM 12" CURBLET SHALL BE REQUIRED.
  - ON-SITE BMPs - (For more detailed information Section 2.2 of the SWPPP)
  - REDUCE IMPERVIOUS AREA - REDUCTION IN STREET WIDTH FROM 24' TO 22'
  - RIP RAP - RIP RAP WILL BE UTILIZED AT ALL AERONS FOR ENERGY DISSIPATION AND PROVIDE SEDIMENT CONTROL. (Utility Contractor)
  - INLET PROTECTION - INLET PROTECTION WILL BE INSTALLED AND MAINTAINED IN ALL CATCH BASINS & REAR YARD STRUCTURES. (MIMCOS OR ECOL VULNER COMPANY)
  - SOIL PLANTING - PLANTING WILL BE INSTALLED ALONG DOWN GRADIENT GRADING, LIMITS AND WOODCHIPPER BLANKET WILL BE UTILIZED ON DOWNSTREAM WETLANDS (Grading Contractor).
  - BORROWS - BORROWS WILL BE INSTALLED ALONG REAR YARD SWALES TO PREVENT SEDIMENT FROM REACHING THE RUPP POND AND ULTIMATELY DRAINAGE AND EROSION CONTROL.
  - STREET SWEEPING - STREET SWEEPING WILL BE DONE A MINIMUM OF ONCE PER WEEK OR AS NEEDED TO MINIMIZE DUST CONTROL AND VEHICLE TRACKING (Grading and Utility Contractor).
  - PHOSPHOROUS FREE FERTILIZERS WILL ALSO BE USED ON SITE.
  - ALL CONCRETE WASHOUT WASTE PRODUCED SHALL BE REMOVED FROM THE SITE. (Utility Contractor)
  - GRV SWALE
  - FLATTER DITCH SLOPES TO REDUCE EROSION AND INCREASE TREATMENT
  - SOIL MODIFICATIONS AS PER PAGE 12