



**E & A CONSULTING GROUP, INC.**

*Engineering Answers*

10909 Mill Valley Rd, Ste 100 | Omaha, NE 68154  
402.895.4700  
eacg.com

Dear Homeowner,

The SID has contracted concrete work to be done on the streets in your SID. A contractor will be on site to do work which includes removing the existing concrete that is damaged and replacing it with new pavement.

Throughout the course of this project, there could be some minimal damage done to yards and or sprinkler systems. The contractor that is on site will be responsible for replacing any damaged sprinkler lines and/or heads. They will also be responsible for any yard damage. Once the new seed and mat and/or sod is installed, it will be the responsibility of the homeowner at each lot to water the new seed and mat and/or sod until it has re-established itself.

Before starting the work on site, each contractor must put in a call and have all the utilities in the area located. You might notice some areas in your yard that have been flagged and/or spray painted. This does not indicate the area in which they will be working. It is just to give them an idea of what kind of utilities are in the area that could possibly be hit while the contractor is on site working.

All work that is completed in public Right-of-Way and follow City of Omaha and Sarpy County specifications.

The work in your SID should not take longer than 30 days to complete. Please let me know if you have any questions or concerns on this at all.

Thank You,

A handwritten signature in black ink, appearing to read 'Chris Anderson', written over a horizontal line.

**Chris Anderson**

Construction Admin Tech

**Engineering Answers**...by transforming concepts into reality

E & A Consulting Group, Inc.

10909 Mill Valley Road, Suite 100 • Omaha, NE 68154

402.895.4700 (o) • 402.506.5084 (m)

[canderson@eacg.com](mailto:canderson@eacg.com)

APPROXIMATE BID QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
1	INSTALL CONSTRUCTION ENTRANCE	2	EA
2	INSTALL STRAW WATTLE	337	LF
3	INSTALL CURB INLET PROTECTION	3	EA
4	INSTALL SILT FENCE	186	LF
5	CLEARING & GRUBBING - GENERAL	1	LS
6	EXCAVATE, DRY, AND RE-COMPACT SILT OR HAUL OFF SITE	1,180	CY
7	EXCAVATION ON-SITE (ESTABLISHED QUANTITY)	2,763	CY
8	HAUL OFF (ESTABLISHED QUANTITY)	1,291	CY
9	REMOVE AND RELAY 24" FES	1	EA
10	REMOVE AND RELAY 30" FES	1	EA
11	REMOVE AND RELAY 36" FES	1	EA
12	REMOVE AND REPLACE SIDEWALK	165	SF
13	CONSTRUCT 24" RCP	24	LF
14	CONSTRUCT 30" RCP	16	LF
15	CONSTRUCT 36" RCP	24	LF
16	CONSTRUCT 24" COLLAR	1	EA
17	CONSTRUCT 30" COLLAR	1	EA
18	CONSTRUCT 36" COLLAR	1	EA
19	CONSTRUCT 24" COLLAR (AS NEEDED FOR FES RE-USE)	1	EA
20	CONSTRUCT 30" COLLAR (AS NEEDED FOR FES RE-USE)	1	EA
21	CONSTRUCT 36" COLLAR (AS NEEDED FOR FES RE-USE)	1	EA
22	REMOVE AND RELOCATE SIGN	6	EA
23	INSTALL NORTH AMERICAN GREEN S150 - TYPE A SEED & MAT	6,661	SY
24	INSTALL NORTH AMERICAN GREEN S150 - RAIN GARDEN MIX SEED & MAT	1,924	SY
25	INSTALL NORTH AMERICAN GREEN VMX C350 - TYPE A SEED & MAT	591	SY
26	INSTALL FLEXAMAT	856	SF

Note to Bidders:

Basins to be removed or converted and graded as shown. All silt is to be removed from basin before grading can be started. Contractor to pump any water from basin using BMP of contractors selection. Contractor to remove trees and rip rap as needed. Removals shall be considered subsidiary to removing basin.

Item 1 - Install Construction Entrance. This item is intended to pay the Contractor for the installation, maintenance and removal of the construction entrance prior to seeding.

Item 2 - Install Straw Wattle. This item is intended to pay the Contractor for the installation, maintenance and removal of straw wattle prior to seeding.

Item 3 - Install Curb Inlet Protection. This item is intended to pay the Contractor for the installation, maintenance and removal of the curb inlet protection prior to seeding.

Item 4 - Install Silt Fence. This item is intended to pay the Contractor for the installation, maintenance and removal of the silt fence prior to seeding.

Item 6 - Excavate, Dry & Recompact Silt. The Excavation of silt and placement as backfill shall be per Section 201 of the City of Omaha Standard Specifications. This item is intended to pay the Contractor for dewatering and silt removal accumulated in the bottom of the existing basin, the moisture conditioning of the silt (either on-site or off-site) and the placement and compaction as structural fill to the pre-construction elevations. The Contractor shall remove silt to virgin ground (see Basin Removal Detail). A Geotechnical subconsultant shall inspect and approve silt removal prior to placement of any fill. Silt removal may be trucked off site or at the discretion of the contractor, dried to within acceptable moisture content levels. Whether the silt is trucked off site or moisture conditioned on site, additional embankment shall be supplied to bring the elevation back to the original elevation of the silt prior to construction. At this point, the excavation on site or borrow from off site can commence. The cost of bringing additional soil to the site to bring the elevations back to original (pre-construction) grade shall be subsidiary to excavate, dry & recompact silt. The Engineers estimate of silt is 1,180 CY. This quantity will be considered an established quantity and will only be changed by a written change order.

Item 7 - Excavation (on-site) - Established Quantity. This item is intended to pay the contractor for materials necessary to excavate, transport, place and compact material located on site. The unit cost bid shall include the cost of excavation, loading for transport, transport, unloading, placement and compaction to fill. Compaction requirement is 95% Standard (ASTM D-698) with moisture limits of - 3% to + 4% optimum. The Engineers estimate 2,763 CY (adjusted - See details below). A topographic survey will be done before construction begins. This item is paid for at an established quantity unit price, and it is the contractors responsibility to determine if the estimated amount is accurate. No adjustment to this quantity bid will be accepted without an approved written change order.

Item 8 - Haul off - Established Quantity. This item is also intended to pay the contractor for material required to be hauled off to complete the project to the grade shown on the plan. The unit cost bid shall include the cost of loading for transport, transport, unloading and placement. The Engineers estimate 1,291 CY (adjusted - See details below). This item is paid for at an established quantity unit price, and it is the contractors responsibility to determine if the estimated amount is accurate. No adjustment to this quantity bid will be accepted without an approved written change order.

BENCHMARK:

**BENCHMARK #1:** CHISELED "X" IN RIM OF FIRST CURB INLET ON NORTH SIDE OF GILES ROAD ON THE WEST SIDE OF 200TH STREET. BOOK 4610, PAGE 44.

ELEV: 1215.78'

**BENCHMARK #2:** CHISELED "X" IN RIM OF CURB INLET ON THE SOUTH SIDE OF GREENLEAF STREET, FIRST CURB INLET EAST OF 199TH STREET. BOOK 4726, PAGE 30

ELEV: 1213.53'

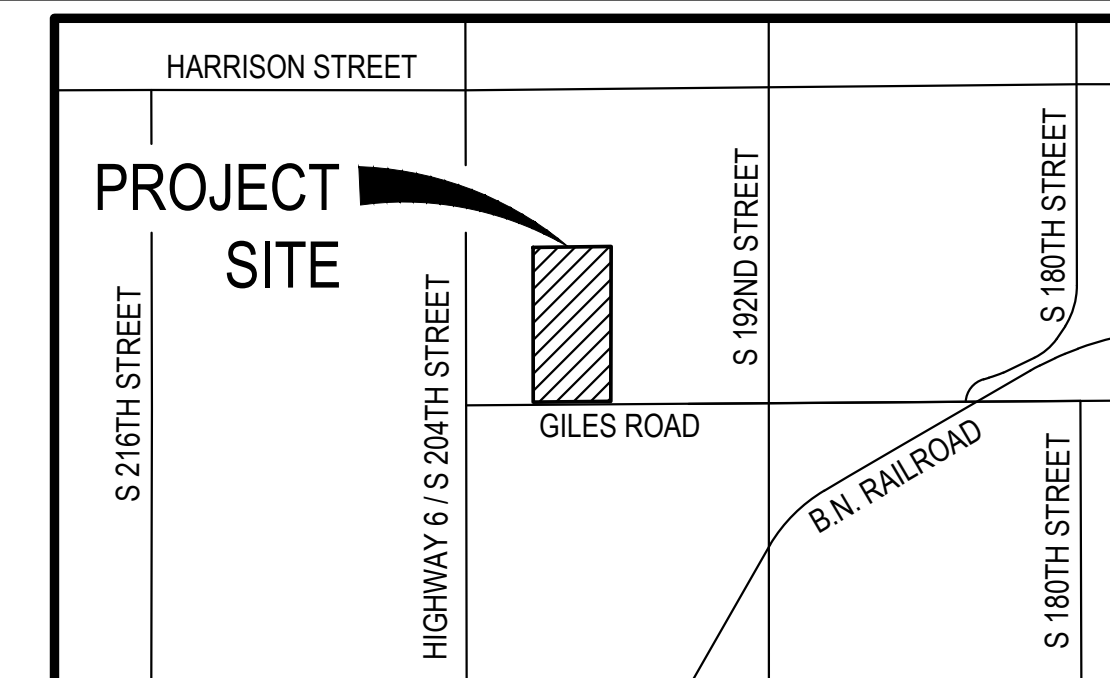
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Cut and Fill - Basin A	1.000	1.350	53656.86 Sq. Ft.	2234.17 Cu. Yd.	1016.30 Cu. Yd.	1217.86 Cu. Yd.<Cut>
Cut and Fill - Basin B	1.000	1.350	18262.79 Sq. Ft.	528.68 Cu. Yd.	456.11 Cu. Yd.	72.57 Cu. Yd.<Cut>
Totals			71919.65 Sq. Ft.	2762.85 Cu. Yd.	1472.42 Cu. Yd.	1290.43 Cu. Yd.<Cut>

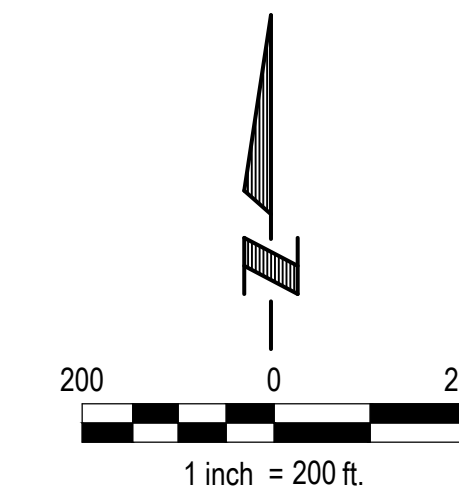
# REMINGTON WEST

## SEDIMENT BASIN A & B CONVERSION

Located in the NE 1/4 of the SW 1/4 and the SE1/4 of the SW 1/4 of Section 18, Township 14N, Range 11E,  
 of the 6th P.M.  
 SID NO. 343  
 SARPY COUNTY, NEBRASKA



VICINITY MAP



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER
2	NOTES
3	DETAILS
4	TOPOGRAPHIC SURVEY - BASIN A-B
5	BASIN A - PLAN
6	BASIN A - PLAN & PROFILE
7	BASIN B - PLAN

PROJECT INFORMATION

Project Number Assigned by PWD	SAR-20190130-4865-GP1	SID Number	317	Estimated Start Date	07/15/2024	Estimated Completion Date	09/15/2024
Basin A-B Conversion	Remington West						
Project Name	Remington West						
S 200th Street and Giles Road	Gretna	Nebraska	68028				
Address	City	State	Zip Code				
X	X	X	X				
City Council Resolution Number Granting Project Approval	City Council Ordinance Number Granting Project Approval	City Council Resolution/Ordinance Approval Date					

PROJECT DESCRIPTION

This project converts (2) basins from temporary basins to permanent water quality basins.

APPLICANT

SID 317  
 Gerald Torczon, Chairman  
 10250 Regency Cir, Ste 300  
 Omaha, NE 68114  
 P: 402.397.5500  
 F: 402.397.4853  
 jbachman@pheblaw.com

DESIGNER

E & A Consulting Group, Inc  
 Teresa Wooten  
 10909 Mill Valley Road, Suite 100  
 Omaha, NE 68154  
 P: 402.895.4700  
 F: 402.895.3599  
 twooten@eacg.com

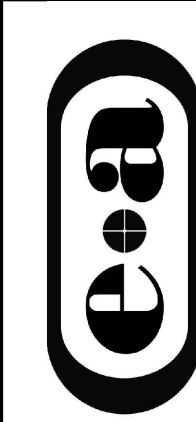
INSPECTOR

E & A Consulting Group, Inc  
 Randall L. Pierce, P.E.  
 10909 Mill Valley Road, Suite 100  
 Omaha, NE 68154  
 P: 402.895.4700  
 F: 402.895.3599  
 rpierce@eacg.com

CONTRACTOR

**E & A CONSULTING GROUP, INC.**  
 Engineering • Planning • Environmental & Field Services

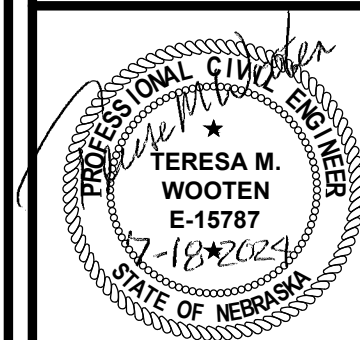
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 State of NE Certificate of Authorization #CA0008



Engineering Answers

REMINGTON WEST  
 SEDIMENT BASIN A & B  
 CONVERSION  
 SID 343  
 SARPY COUNTY, NEBRASKA

COVER



Proj No:	P2018.107.003
Date:	07/18/2024
Designed By:	JLH
Drawn By:	JLH
Scale:	AS SHOWN
Sheet:	1 of 7

PCSPM: SAR-20190130-4865-P PROJECT TYPE: PCSMP



GENERAL NOTES

- 1. All project procedures, materials, bonds and reserves shall conform to the City of Omaha's Standard Specifications for Public Works Construction, 2024 Edition ("Standard Specifications"). It is the responsibility of the CONTRACTOR to be familiar with the contents of the Standard Specifications. The Standard Specifications can be found at: https://publicworks.cityofomaha.org/contractors-consultants2/contractors/standard-plates-curb-ramps-and-specifications
2. References to "Standard Plates" refers to the City of Omaha's 2024 Standard Plate List. These Standard Plates can be found at: https://publicworks.cityofomaha.org/2024-standard-plate-list

The CONTRACTOR is referred to the following Standard Plates for use on this project:

Table with 3 columns: PLATE NO., DESCRIPTION, REVISION DATE. Lists items like Concrete Curbs, Sidewalk Construction, Concrete Curb Ramps, etc.

- 3. Barricades shall conform to the Omaha Public Works "Barricading Standards, Specifications, Methods and Materials" and/or the "Manual on Uniform Traffic Control Devices" and any additions thereto.
4. The time limit to complete the work is listed in the Proposal in the Specifications.
5. The INSPECTOR shall certify the CONTRACTOR's Work adheres to and meets all construction specifications and plans; maintenance, safety, workmanship, and testing requirements; and applicable regulatory compliance issues.
6. Approval shall be obtained from the City of Gretna Public Works Department for all applicable public improvements prior to the commencement of construction.
7. The CONTRACTOR and INSPECTOR shall ensure all impacted government agencies (City of Gretna, Sarpy County, State of Nebraska, Corps of Engineers, Papio-Missouri River Natural Resource District, United States Federal Government, etc.) have granted all applicable permission to proceed with construction prior to mobilization.
8. Construction found to be unacceptable to the City of Gretna Public Works Department shall be removed and replaced at the CONTRACTOR's expense.
9. The INSPECTOR shall notify the following City of Gretna Public Works Department personnel 48 hours prior to all preconstruction meetings and 48 hours prior to the start of any construction: Greg Perry (Phone: 402-399-0227; email: gregp@eagleengineeringgroup.com).
10. The INSPECTOR shall submit weekly progress reports to the following City of Gretna Public Works Department employee no later than the following week ending date: Greg Perry (Phone: 402-399-0227; email: gregp@eagleengineeringgroup.com).
11. The INSPECTOR shall notify the following City of Gretna Public Works Department personnel 48 hours prior to lane closures and 24 hours prior to lane restrictions: Greg Perry (Phone: 402-399-0227; email: gregp@eagleengineeringgroup.com).
12. All operations conducted on the premises, including the warming-up, repair, arrival, departure, or running of trucks, earthmoving equipment, construction equipment, and any other associated equipment shall be limited to the period between 7:00 A.M. and 6:00 P.M., Monday through Friday. No earthmoving or grading operations shall be conducted on the premises on Saturdays or Sundays or legal holidays, unless waived by the INSPECTOR and the City of Gretna Public Works Department.
13. The CONTRACTOR shall notify all impacted utility companies via One Call (dial 811 or 800-331-5666) 48 hours before work is started to verify utility locations.
14. The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities are approximate and for record purposes. Existing utilities are located on plans only for the convenience of the CONTRACTOR. Existing utility service lines may not be shown on the plans. The CONTRACTOR shall locate all underground and overhead interferences which may affect his operation during construction and shall take all necessary precautions to avoid damage to the same.

GRADING AND SWPPP GENERAL NOTES

- 15. The CONTRACTOR shall take all precautionary measures necessary to protect existing utility lines, structures and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the CONTRACTOR'S operations shall be repaired or replaced satisfactory to the INSPECTOR and owning utility company at the expense of the CONTRACTOR.
16. All construction shall be as shown on these plans. Any revisions shall have the prior written approval of the DESIGNER and City of Gretna Public Works Department.
17. Construction may require the disturbance of existing drainage and erosion control measures. The CONTRACTOR shall make themselves aware of the existing drainage and erosion control measures prior to bidding this work. A copy of the Grading and Erosion Control Plan SAR-20190130-4865 GP1 is available for review at the office of the DESIGNER and INSPECTOR. The function of these items must be maintained throughout construction with emphasis placed on restoring their integrity prior to any rainfall event. Erosion control improvements have been constructed on this site, including terraces, silt fencing, and temporary sediment basins. The CONTRACTOR shall be responsible for prompt reconstruction of any erosion control improvements disturbed by his operations. All disturbed erosion control improvements shall be fully reconstructed at the end of each working day prior to leaving the site.
18. All coordinates shown are Nebraska State Plane Coordinates modified using a scale factor of 0.999635086.
19. Elevations are referenced to U.S.G.S. Datum, NAVD 88.
20. CONTRACTOR shall adjust all new and existing inlets, valve boxes, manhole rims, and sewer clean outs, etc. to finish grade as applicable whether or not they are shown on the plans.
21. The CONTRACTOR shall adhere to good housekeeping best management practices at all times. Good housekeeping best management practices focus on keeping the work site clean and orderly while handling materials and waste in a manner that eliminates the potential for pollutant runoff.
22. The construction documents (e.g., Contract, Bond, Insurance, Specifications, and Construction Plans) are essential and a requirement in one part is as binding as though occurring in all. Thus, the construction documents are complementary in nature. The documents describe and provide the complete construction project. The CONTRACTOR may not take advantage of any apparent construction project errors or omissions. The CONTRACTOR shall notify the INSPECTOR promptly of any omissions or errors. In the case of a discrepancy between parts of the construction documents, the most stringent construction methodology shall rule.
23. The CONTRACTOR shall be responsible for coordinating their work with the ENGINEER in requesting line stakes and grades. The OWNER will not be responsible for delays due to lack of grades or line stakes.
24. The CONTRACTOR shall be charged for replacing construction stakes and lot pins which are destroyed by his operations.
25. The CONTRACTOR is hereby referred to Subsection 100.03-E of the Standard Specifications relative to cleaning of the work area. The final estimate will not be processed until the CONTRACTOR has satisfactorily cleaned and flushed the pavement slab of all rubbish, excess material, mud and debris, and all parts of the work area have been left in a neat and presentable manner. All disturbed right-of-way areas shall be restored to a level and smooth section prior to acceptance of the work.
26. The CONTRACTOR shall place silt fence as shown and as directed by the ENGINEER to prevent sediment from leaving the construction site.

- 1. Utilities are shown as a convenience for the Contractor. The locations of all aerial and underground utilities may or may not be indicated in these plans. The Contractor shall notify all utility companies before work is started to verify utility locations. No excavation will be permitted in the area until all utilities have been located and identified to the satisfaction of all parties and then, only with extreme care to avoid any possibility of damage. The Contractor will be responsible for repair of utilities damaged during construction.
2. The Contractor shall maintain positive drainage in existing road ditches and culverts draining into the project area.
3. Payment for earthwork shall be based upon the bid Item "EXCAVATION ON-SITE (ESTABLISHED QUANTITY)". This quantity is the fixed plan cut volume determined by a comparison of the proposed grade surface to the existing grade surface. The project has not been designed to balance assuming a 35% shrinkage factor on the fill unless otherwise indicated. There will be no deviation from this pay quantity without a written change order resulting from a plan revision or field change. Work shall include excavation, haul, placing and compacting earthwork necessary for a completed project for this fixed established quantity.
4. Fill placed on a slope steeper than a 5H:1V shall be benched before placing fill, with a maximum riser height on the order of 2', separated by horizontal steps that are wide enough to accommodate compaction equipment.
5. All fill and backfill shall be placed in lifts of 8" or less in loose thickness. All fill shall be compacted to a minimum 95% of the maximum dry density at a moisture content 3% below to 4% above optimum as determined by ASTM D698 (Standard Proctor) or as recommended by the Geotechnical Engineer.
6. Fill and Backfill shall be inspected and tested periodically at the discretion of the ENGINEER for adherence to material, compaction, and moisture specifications.
a. Fill or backfill failing to meet compaction and moisture content specifications shall be reworked and retested at the Contractor's expense.
b. Material deemed unsuitable by the ENGINEER shall be removed and replaced. Reimbursement for removal of unsuitable materials will be made at the contract unit price for, "EXCAVATION ON-SITE (ESTABLISHED QUANTITY)".
7. Fill and backfill material shall be impervious material (clay/silt) free of frost, snow, ice, concrete, brick, stone, refuse, cinder ashes, organic matter, or any other material deemed unsuitable by the ENGINEER.
8. Excavation necessary for construction of the basins is incorporated into the "EXCAVATION ON-SITE (ESTABLISH QUANTITY)" quantity.
9. Existing ditches and eroded areas shall be undercut a minimum of 12 inches on all bottoms and sides prior to placement of any fill. Separate payment will not be made for undercutting.
10. The Contractor shall give the ENGINEER 72 hours notice to allow time to perform a survey check of the graded site prior to respreading topsoil. The Contractor shall obtain the ENGINEER's approval of the work prior to respreading topsoil or removing equipment from the site. Any re-mobilization or re-work required due to the circumstances described in this paragraph shall be performed by the Contractor at no additional cost.
11. The Contractor shall monitor perimeter silt fencing and install additional silt fencing if necessary or as directed by the ENGINEER. Payment shall be made at the unit price for "Install Silt Fence". (See the Erosion Control Feature Maintenance Schedule).
12. No tree removal shall occur between April 1 and July 15, unless a migratory bird inventory has been completed and no nesting of migratory birds is found. Tree removal between June 1 and July 31 shall further require a bat roosting inventory.
13. The Contractor shall comply with all OSHA regulations.
14. A Geotechnical Exploration Report has been prepared for this project and is incorporated herein by reference. All recommendations of said report shall be followed in performing grading, paving, and utility operations. See Geotechnical Report prepared for this project by ISG & Associates, Inc. Project #18214, Dated November 19, 2018.
15. The Contractor shall maintain and preserve utilities traversing and servicing premises as long as those utilities are required.
16. Where open excavations are not backfilled within 24 hours, the Contractor shall encircle the open area by a standard snow fence.
17. All rubbish, unsuitable material, debris, equipment, etc., resulting from demolition work shall be disposed of properly and in a legal manner.
18. The Contractor shall control dust during demolition and removals.
19. All demolition, removals, clearing and grubbing shall be paid for in a lump sum at the bid price for "CLEARING AND GRUBBING - GENERAL".
20. If Tensar BX1100 Geogrid and 3" Clean Limestone are required by Geotechnical Engineer, the geogrid and limestone shall be placed 10' below the top of curb.

STORM SEWER CONSTRUCTION NOTES

- 1. The storm sewer system (pipe, manholes, inlets, appurtenances, special structures, etc.) shall be supplied and installed in accordance with the Standard Specifications.
2. The CONTRACTOR shall ensure all storm sewer pipe supplied for construction has been certified by the American Concrete Pipe Association (ACPA). All pipe must display the Q-CAST symbol to verify the manufacturer has met the ACPA's certification program. Visual inspections for defects shall continue to take place on the site.
3. No storm sewer service connections to any private lot shall be permitted prior to final acceptance by the City of Gretna Public Works Department, Greg Perry (Phone: 402-399-0227; email: gregp@eagleengineeringgroup.com), which shall include approved rectification of all punch list items and the submittal of mylar as-built drawings.
4. Aggregate bedding is required for all storm sewer pipe. Pipe bedding shall be in accordance with the Standard Specifications and as indicated on City of Omaha Standard Plate 701-01-1, 701-01-2, 701-01-3. Pipe bedding required for Rigid Pipe shall conform to Type R2 as included on Standard Plate 701-01. Any variances to the required bedding type will be as noted in the project plans. Recycled concrete is not an acceptable pipe bedding material. The cost of aggregate for pipe bedding shall be subsidiary to the cost of the pipe.
5. Additional aggregate bedding or foundation rock required for the sewers shall be placed as directed by the ENGINEER at locations where unstable trench bottom conditions are encountered. Install in accordance with Subsection 700.03-H of the Standard Specifications and Standard Plate 701-01.
6. Joints for storm sewer pipes are required to have a fabricated gasket or bitumastic sealant meeting the material and installation requirements noted under Section 702 of the Standard Specifications.
7. Pipe couplers conforming to Standard Plate 700-04 shall be installed at the first three (3) joints of flared end sections.
8. Flared end sections are not required to have the concrete footing or pile support shown on Standard Plate 702-12.
9. All inlet structures will be located in the field by the ENGINEER.
10. Manholes shall be constructed in accordance with Standard Plate 702-11 including installation of external frame seals for all manholes within paving.
11. All rip-rap shall be underlain with geotextile filter fabric (Mirafi 180N) or approved equal. The filter fabric is subsidiary to the rip-rap.
12. The CONTRACTOR shall ensure all storm sewer lines, manholes, and inlets are cleaned of debris (leaves, stone, dirt, construction material, etc.) prior to the APPLICANT taking ownership.
13. All storm sewer pipe installed under this project shall be inspected by Closed Circuit Television (CCTV) camera by an independent sewer inspection service. The CCTV inspection will be paid for by the OWNER. Video record of the inspected pipe(s) and written assessment of pipe conditions and any deficiencies shall be provided to the ENGINEER in electronic format. Any subsequent CCTV inspections required after necessary pipe system repairs shall be paid by the CONTRACTOR.

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REMINGTON WEST
SEDIMENT BASIN A & B
CONVERSION
SUD 343
SARPY COUNTY, NEBRASKA

NOTES

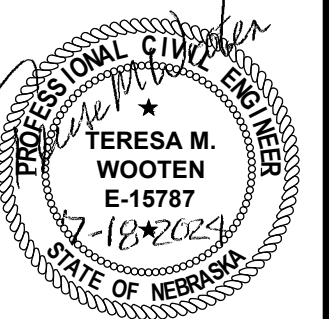
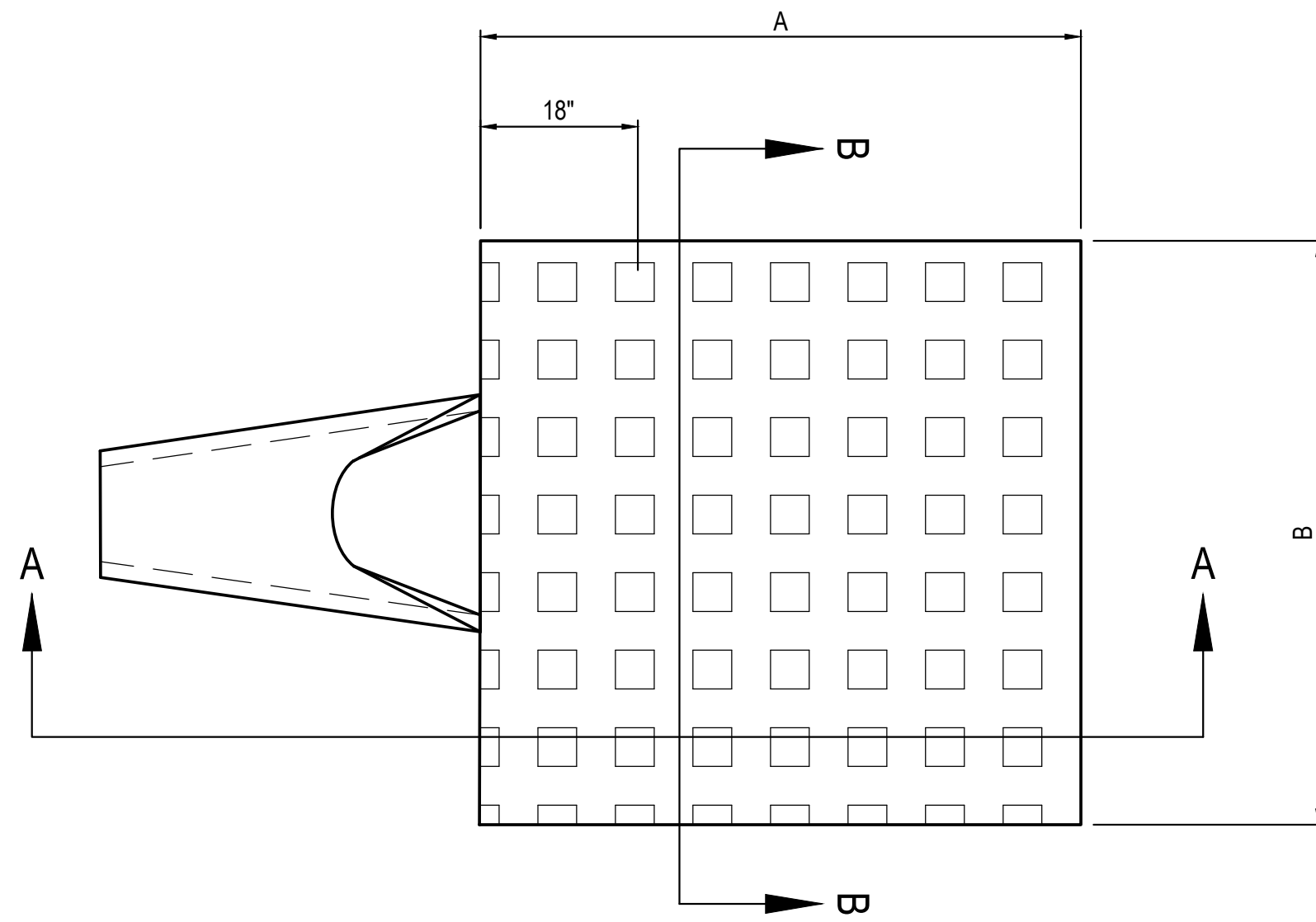


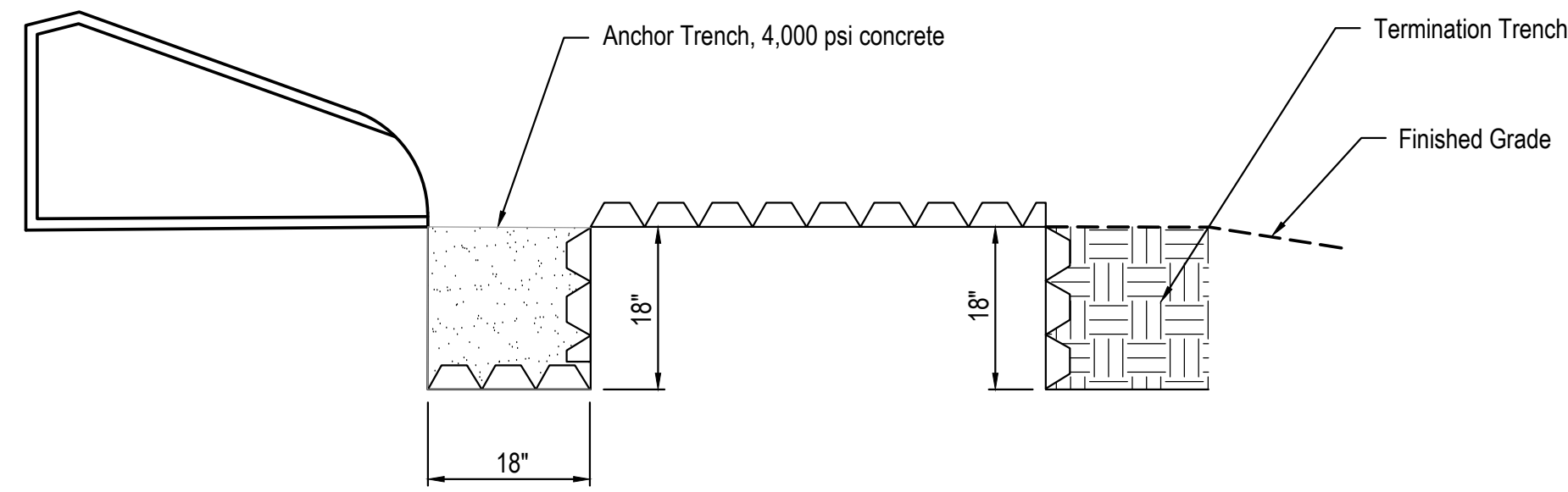
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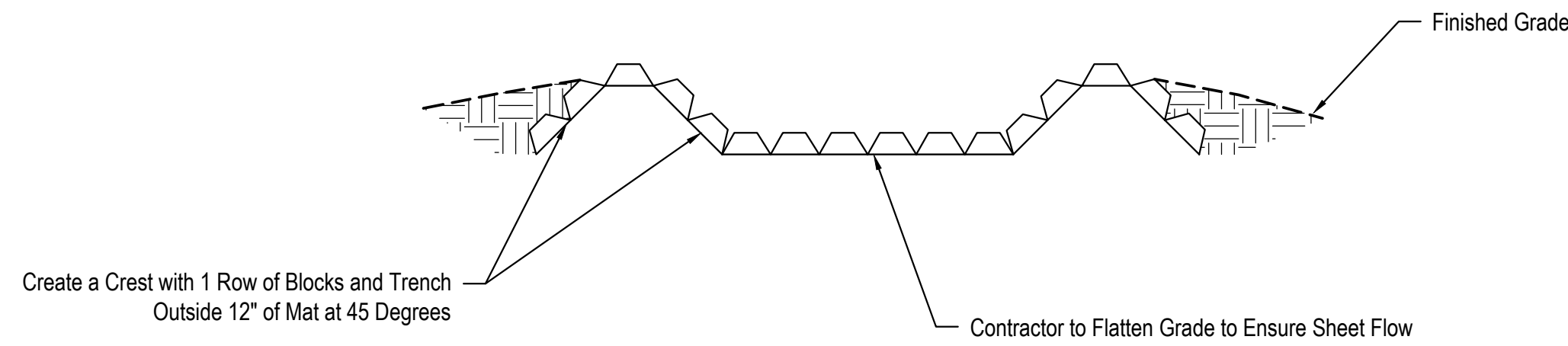
PCSPM: SAR-20190130-4865-P PROJECT TYPE: PCSMP



PLAN



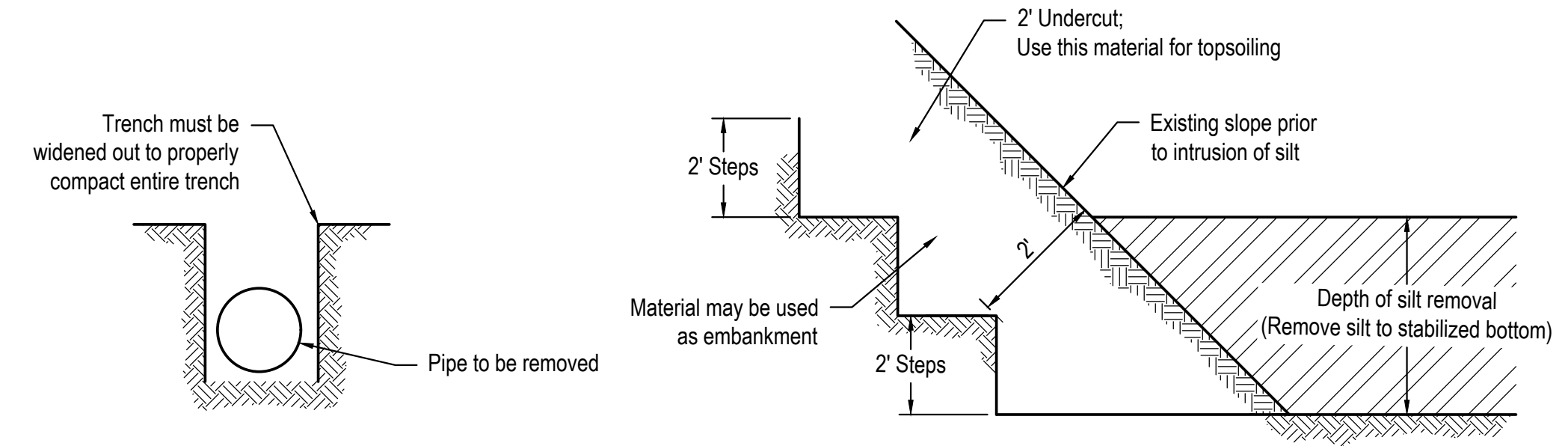
SECTION A - A



SECTION B - B

FLEXAMAT TABLE			
BASIN	A	B	PAY QUANTITY
Basin A - 36"	19'	15'	285 SF
Basin A - 30"	19'	15'	285 SF
Basin A - 24"	13'	11'	143 SF
Basin B - 24"	13'	11'	143 SF

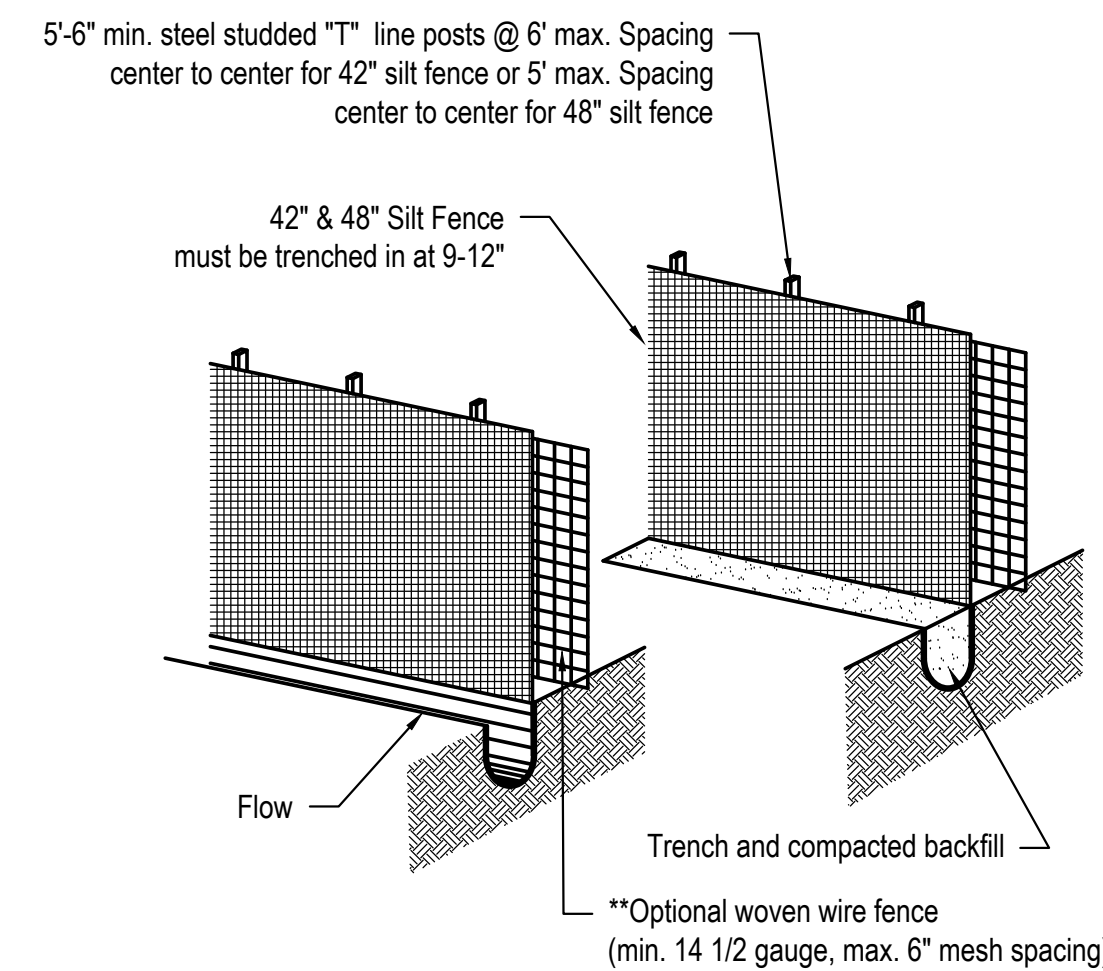
FLEXAMAT DISSIPATION DETAIL  
NOT TO SCALE



NOTES:

1. A preconstruction conference shall be held with contractor, engineer, and geotechnical engineer prior to basin removal construction starting.
2. Entire basin shall be cleaned of silt, riser pipe/outlet pipe and inlet pipe removed, and side walls cleaned. At this point, the inspection by the Geotechnical Engineer must take place before the sidewalls are benched with 2' vertical steps and embankment placed.
3. All embankment shall be free of debris and placed in lifts of 8". Density testing must be performed at 1' intervals throughout the entire basin closure process. Compaction requirements shall be 95% compaction (Standard Proctor), with moisture requirements of -3% to +4% optimum.
4. Sheeps foot or pad foot compactor required. Vibratory compactors will be required if compactions are not met on regular basis.

**BASIN REMOVAL DETAIL & NOTES**  
NOT TO SCALE

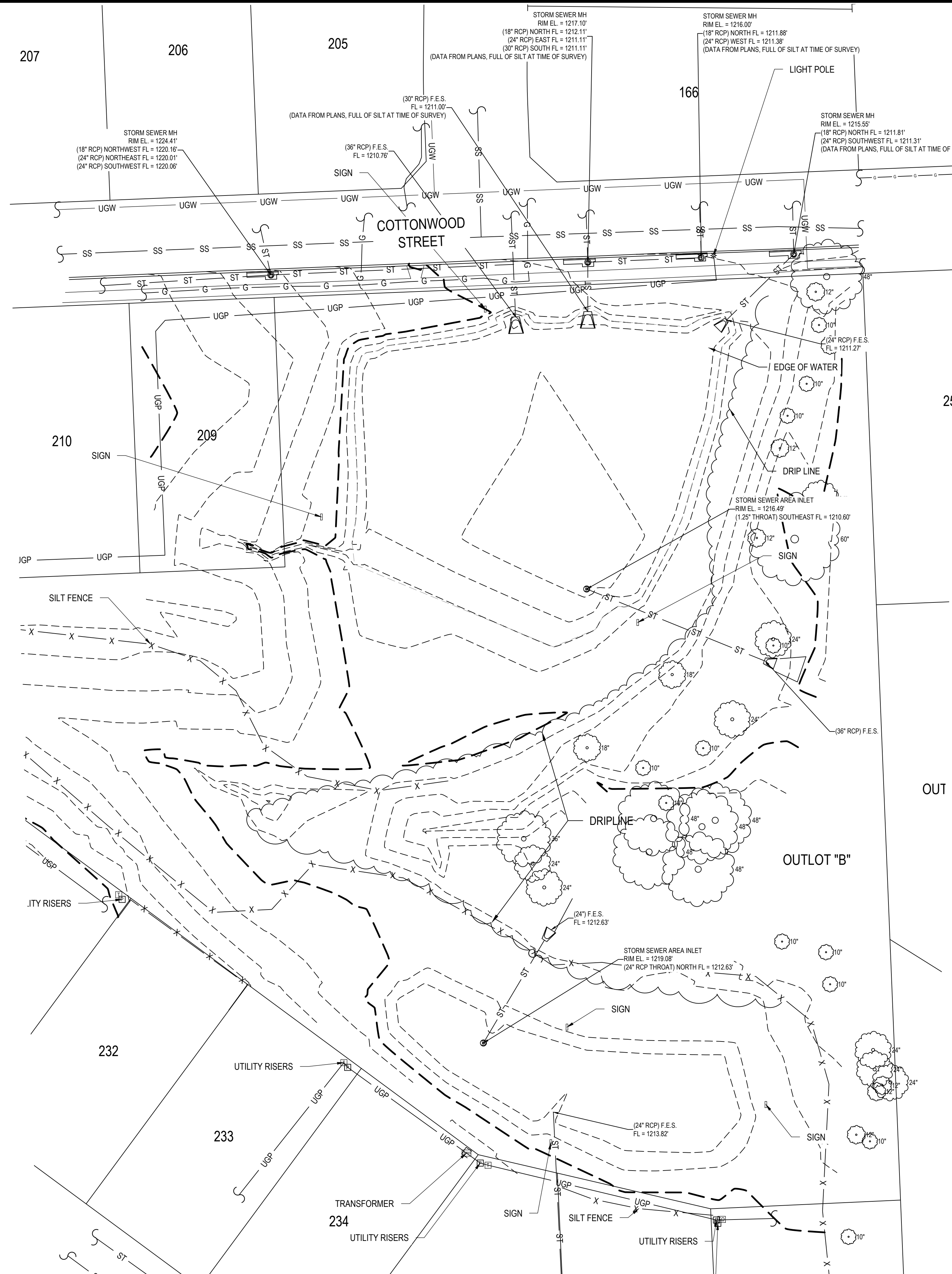


**SILT FENCE**  
NOT TO SCALE

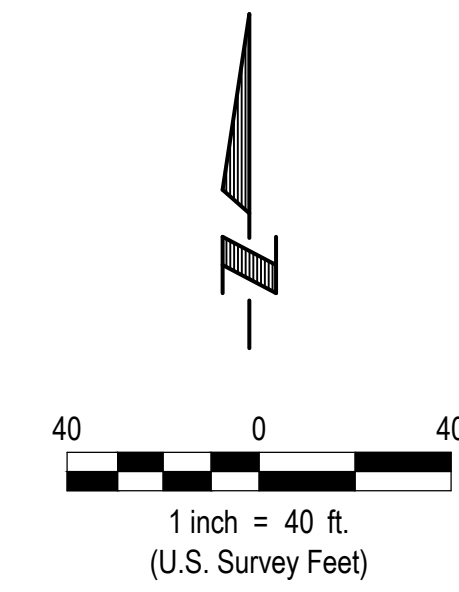
NOTES:

1. Acceptable silt fence specifications- AOS (#20 - 50 Sieve), Water Flow Rate (50 gpm/ sq. ft. - 125 gpm/ sq.ft), Tensile Strength (Grab) - (Min. 120 Warp or greater and Elongation (5-25%).
2. On each new run of silt fence spray paint the beginning of the run with 0+00 and spray paint the end with the date of installation and LF of the run.
3. Silt fence should be securely fastened to each steel support post or to woven wire which is in turn attached to the steel fence posts. A minimum of 3 ties are required for each post. To be located in the top 12" of the silt fence.
4. Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. (Incline all posts 20° Max. from vertical, toward flow)
5. Silt fence shall be trenched in with a silt fence plow so that the downslope face of the trench is flat and perpendicular to the line of flow.
6. Silt fence shall be removed when it has served its usefulness so as not to block or impede storm flow or drainage.
7. Sediment trapped by this practice shall be uniformly distributed on the source area prior to topsoiling.

Revisions	Description	Date	By
1		07/18/2024	JLH
2			JLH
3			AS SHOWN



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 Dial: 811 Call before you dig.



**LEGEND**

- NOTE: FOR REFERENCE ONLY, ITEMS DEPICTED IN LEGEND MAY NOT APPEAR ON PLANS.
- |  |                    |  |                           |
|--|--------------------|--|---------------------------|
|  | SECTION CORNER     |  | FENCE LINE                |
|  | CURB INLET         |  | GAS LINE                  |
|  | BOLLARD            |  | WATER LINE                |
|  | POWER POLE         |  | POWER LINE (OVERHEAD)     |
|  | FLARED END SECTION |  | POWER LINE (UNDER GROUND) |
|  | MANHOLE            |  | SANITARY SEWER LINE       |
|  | SIGN               |  |                           |
|  | GAS VALVE          |  |                           |

**UTILITIES NOTE:**

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**BENCHMARK:**

- BENCHMARK #1:** CHISELED "X" IN RIM OF FIRST CURB INLET ON NORTH SIDE OF GILES ROAD ON THE WEST SIDE OF 200TH STREET. BOOK 4610, PAGE 44.  
 ELEV: 1215.78'
- BENCHMARK #2:** CHISELED "X" IN RIM OF CURB INLET ON THE SOUTH SIDE OF GREENLEAF STREET, FIRST CURB INLET EAST OF 199TH STREET. BOOK 4726, PAGE 30.  
 ELEV: 1213.53'

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 Engineering Answers

REMINGTON WEST  
 SEDIMENT BASIN A & B  
 CONVERSION  
 S.D. 343  
 SARPY COUNTY, NEBRASKA

TOPOGRAPHIC SURVEY -  
 BASIN A-B

PROFESSIONAL CIVIL ENGINEERING  
 TERESA M. WOOTEN  
 E-15787  
 7-18-2024  
 STATE OF NEBRASKA

Revisions	Description	Date
1	Initial	07/19/2024

Proj No: P2018.107.003  
 Date: 07/19/2024  
 Designed By: J.L.H.  
 Drawn By: J.L.H.  
 Scale: AS SHOWN  
 Sheet: 4 of 7

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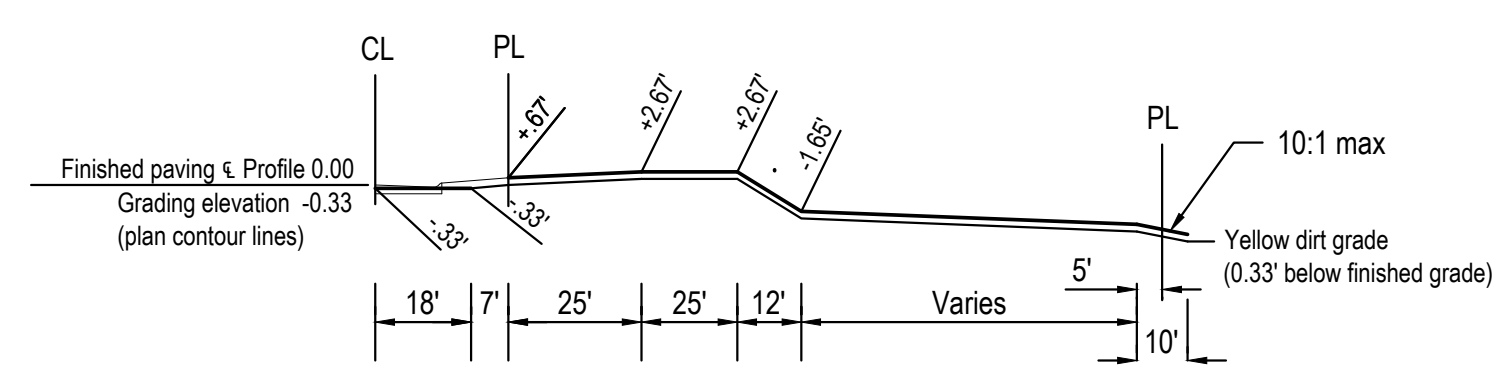


**REFERENCE NOTES**

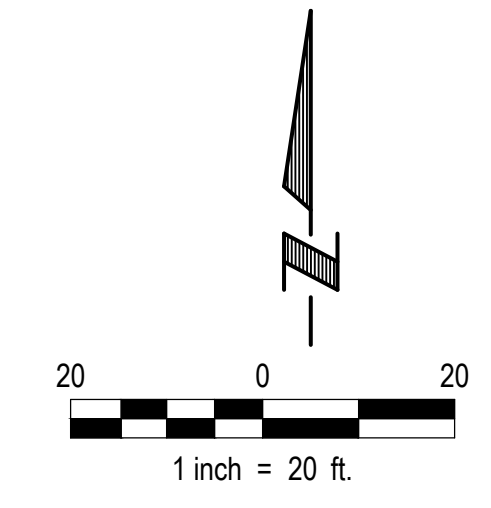
- RN 1 Install, maintain & remove construction entrance, 1 EA. Contractor to verify with engineer for permission to construct.
- RN 2 Install silt fence (J-hooks every 100 ft), 191 LF - See Sheet 3 for detail.
- RN 3 Install curb inlet protection 3 EA (total this sheet).
- RN 4 Install straw wattle, 265 LF.
- RN 5 Remove temporary sediment basin - See Sheet 3 for detail.
- RN 6 Excavate, dry, and recompact silt or haul off site, 941 CY.
- RN 7 Existing 72" Type II Area Inlet to remain.
- RN 8 Existing 36" RCP to remain.
- RN 9 Existing 36" FES to remain.
- RN 10 Remove and relay 24" FES, 1 EA. Grade to drain. (Pipe Couplers on first 3 sections from flared end, per Standard Plate 700-83, 3 couplers per joint, Subsidiary). Construct 24" concrete collar, 1 EA, (if required) - See Plan & Profile Sheet 6.
- RN 11 Construct 24" concrete collar, 1 EA - See profile sheet 6 for details
- RN 12 Construct 24" RCP, 24 LF contractor to maintain 0.50% slope (concrete collar subsidiary). See Plan & Profile Sheet 6.
- RN 13 Remove and relay 30" FES, 1 EA. Grade to drain. (Pipe Couplers on first 3 sections from flared end, per Standard Plate 700-83, 3 couplers per joint, Subsidiary). Construct 30" concrete collar, 1 EA, (if required) - See Plan & Profile Sheet 6.
- RN 14 Construct 30" concrete collar, 1 EA - See profile sheet 6 for details
- RN 15 Construct 30" RCP, 16 LF. Contractor to maintain 0.10% slope (concrete collar subsidiary). See Plan & Profile Sheet 6.
- RN 16 Remove and relay 36" FES, 1 EA. Grade to drain. (Pipe Couplers on first 3 sections from flared end, per Standard Plate 700-83, 3 couplers per joint, Subsidiary). Construct 24" concrete collar, 1 EA, (if required) - See Plan & Profile Sheet 6.
- RN 17 Construct 36" concrete collar, 1 EA - See profile sheet 6 for details
- RN 18 Construct 36" RCP, 24 LF - Contractor to install pipe at 0.00% slope (concrete collar subsidiary). See Plan & Profile Sheet 6.
- RN 19 Reshape bank to match proposed contours (3:1 slope max).
- RN 20 Emergency spillway, 100 LF, install Type A seed & North American Green VMAX C350, 491 SY, install per manufacturer's recommendation.
- RN 21 Construct Flexamat, total quantity including embedment 713 SF (total this sheet) per manufacturer's recommendations - See Sheet 3 for detail.
- RN 22 Seed and mat bottom of basin with Rain Garden Mix, 1,647 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
- RN 23 Install Type A seed and North American Green S150 Matting, 4,424 SY. Planting method shall be per manufacturer's recommendation.
- RN 24 Remove and Replace Concrete Sidewalk, 165 SF. Contractor Shall Abut Sidewalk to Existing Pavement with Thickened Edge. Install Expansion Joint at Connection. Adjust Elevation as Needed to Match Existing Grade. (Subsidiary of Remove and Replace Concrete Sidewalk). Barricading Sidewalk closure required (subsidiary).
- RN 25 Grout Existing Sediment Basin Weep Holes (subsidiary).
- RN 26 Core Drill (5) - 3" holes through Inlet at CL Elev 1210.70. Holes shall be spaced a minimum of 8" on center (subsidiary).
- RN 27 Remove and relocate sign, 3 EA.

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**Note:**  
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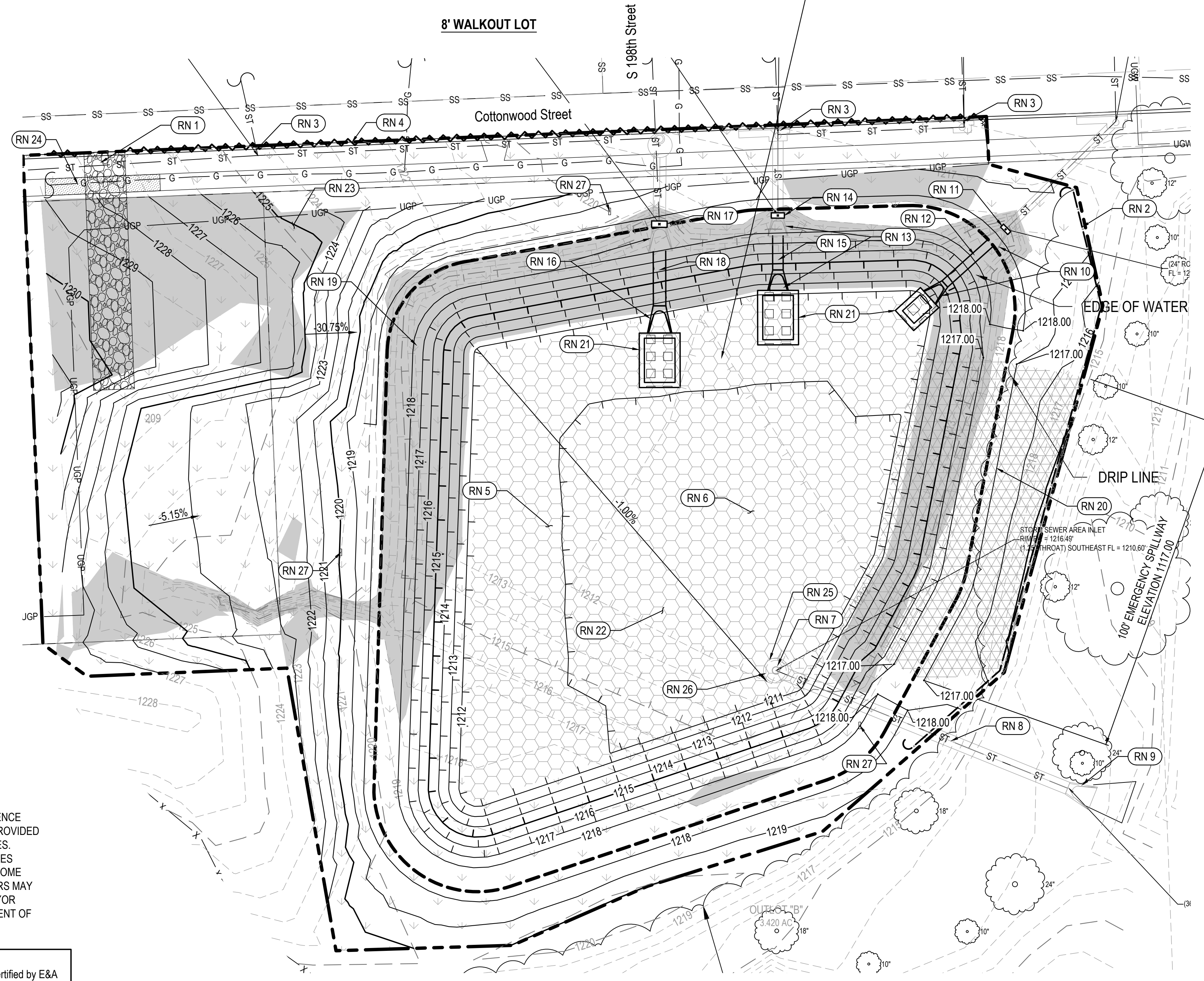


Contractor shall pump and remove ponded water and suspended sediment and solids from the existing basin. Suspended sediments shall be removed from the basin water using a best management practice of the contractors choosing. Once water has been removed, the basin shall be cleaned and prepared for infilling. Trees shall be removed and grubbed, sediment basin improvements including rip-rap, baffles, refuse, and any unsuitable soils shall be removed and disposed of legally. All removal, clean-up and disposable costs shall be considered incidental to Clearing and Grubbing as part of the Basin Removal Project.



**LEGEND**

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Utility Valve (Gas)
- Curb Inlet
- Manhole
- Flared End Section
- Sign
- Power Riser
- Telephone Riser
- Tree
- Building
- Fence Line
- Gas Line
- Water Line
- Existing Storm Sewer
- Proposed Storm Sewer
- Storm Sewer Line
- Sanitary Sewer Line
- Power Line (Overhead)
- Underground Power Line
- Underground Electrical Line(s)
- Underground Cable Communication Line (Telephone, TV)
- Existing Contours
- Proposed Contours
- Wattles
- Silt Fence
- Limits of Construction
- PCSMP Basin Perimeter
- Fill Areas
- Construction Entrance
- Flexamat Transition Mat (see Reference Note 18 this sheet)
- Seed and Mat Disturbed Area (see Reference Note 20 this sheet)
- Seed and Mat Emergency Spillway North American Green VMAX C350 (see Reference Note 17 this sheet)
- Seed and Mat - Rain Garden Mix with the following species:
  - Virginia Wildrye 4 PLS lbs per acre
  - Canada Wildrye 3 PLS lbs per acre
  - Prairie Dropseed 0.25 PLS lbs per acre
  - Fowl Bluegrass 1.25 PLS lbs per acre
  - Blue Vervain 0.25 PLS lbs per acre
  - Sweet Blackeyed Susan 0.05 PLS lbs per acre
  - Fox Sedge 0.4 PLS lbs per acre
- Planting Method Shall be per Manufacturer's Recommendation. (See Reference Note 19 this sheet)



**DRY DETENTION BASIN NOTES**

BASIN	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	EXISTING OUTLET PIPE DIAMETER	RISER			EMERGENCY SPILLWAY		1/2" WATERSHED VOLUME		
				RISER PIPE DIAMETER	RISER THROAT ELEVATION (FT)	RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
A	1211	1218	36"	TYPE II AI (72") Modified	1215.24	1216.49	1217	100	21.79	39,549	71,192

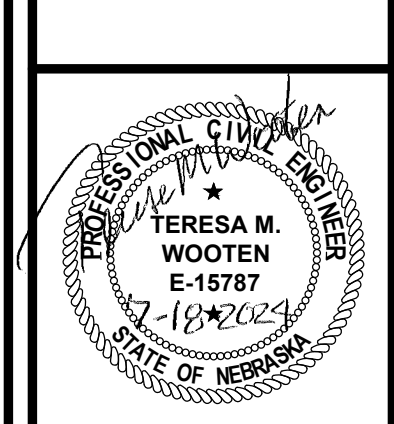
**PCSMP: SAR-20190130-4865-P PROJECT TYPE: PCSMP**

Revisions	Description	Date
P2018.107.003		
07/18/2024	JLH	JLH
	AS SHOWN	
	Scale:	5 of 7



**REMINGTON WEST  
 SEDIMENT BASIN A & B  
 CONVERSION**  
 SUD 343  
 SAPPY COUNTY, NEBRASKA

**BASIN A - PLAN**

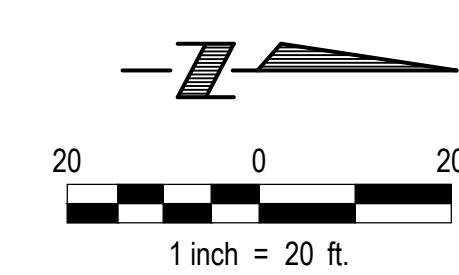
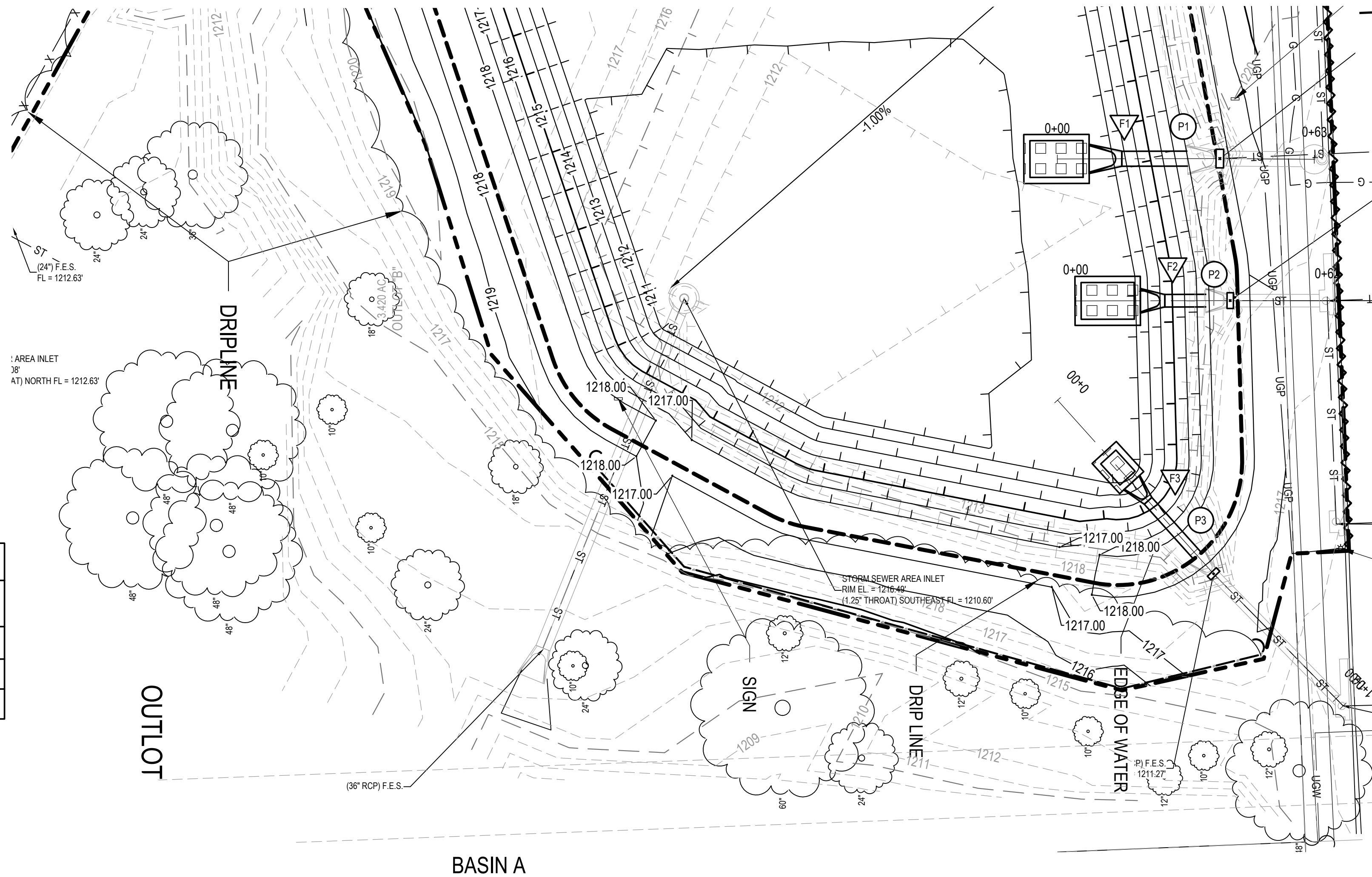


Proj No: P2018.107.003  
 Date: 07/18/2024  
 Designed By: JLH  
 Drawn By: AS SHOWN  
 Scale: 5 of 7  
 Sheet: 5 of 7  
 Even Nelson

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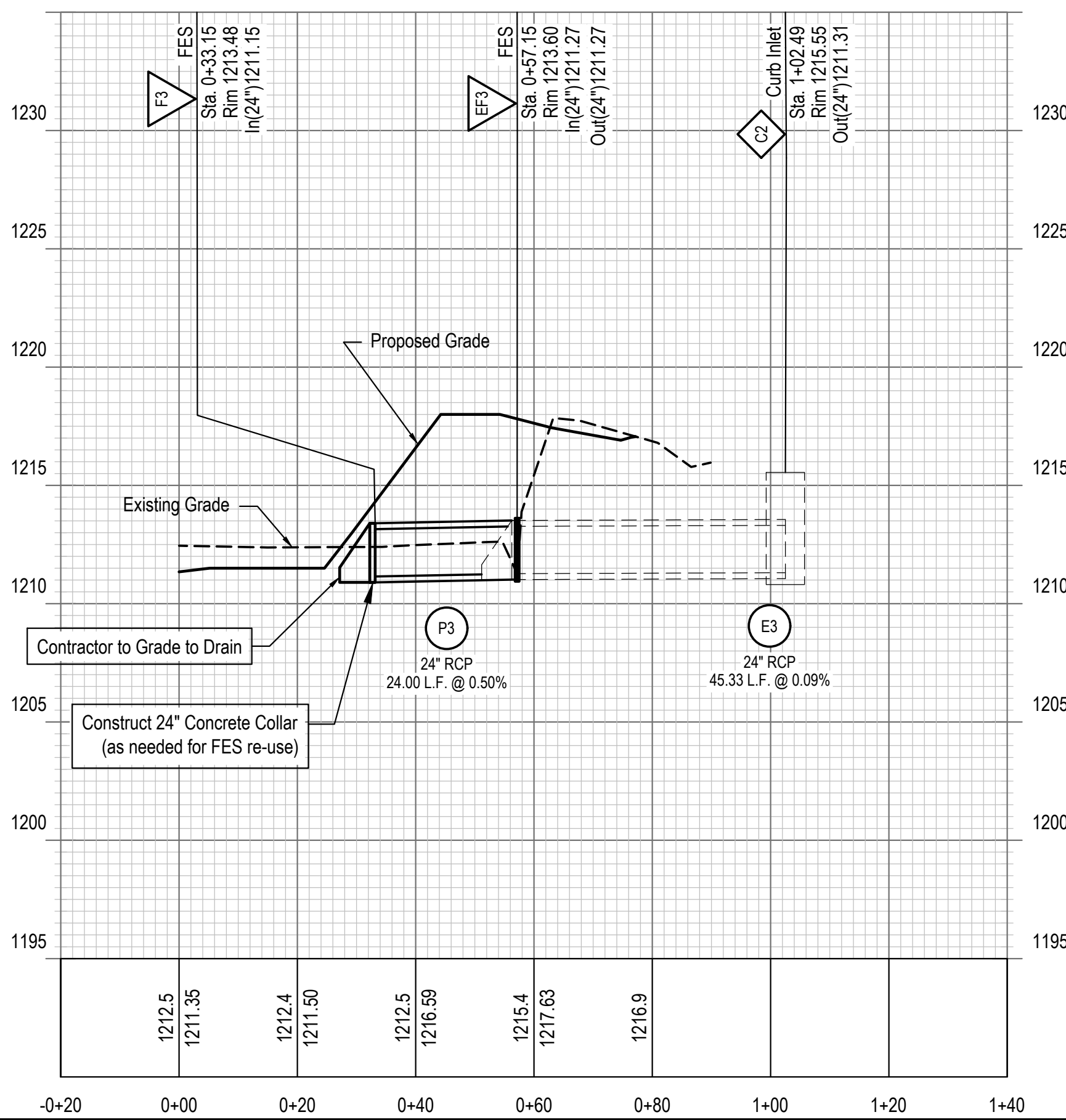
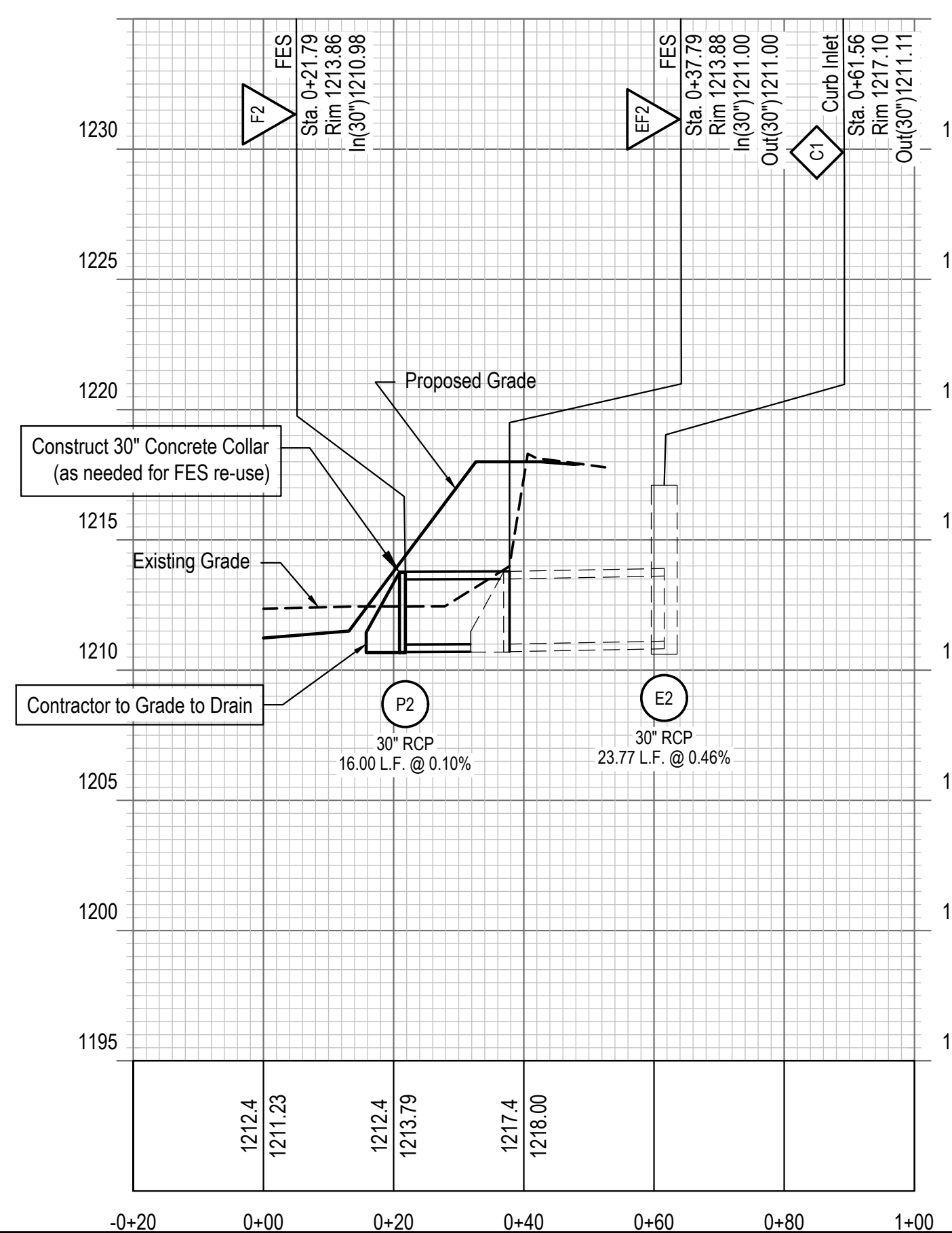
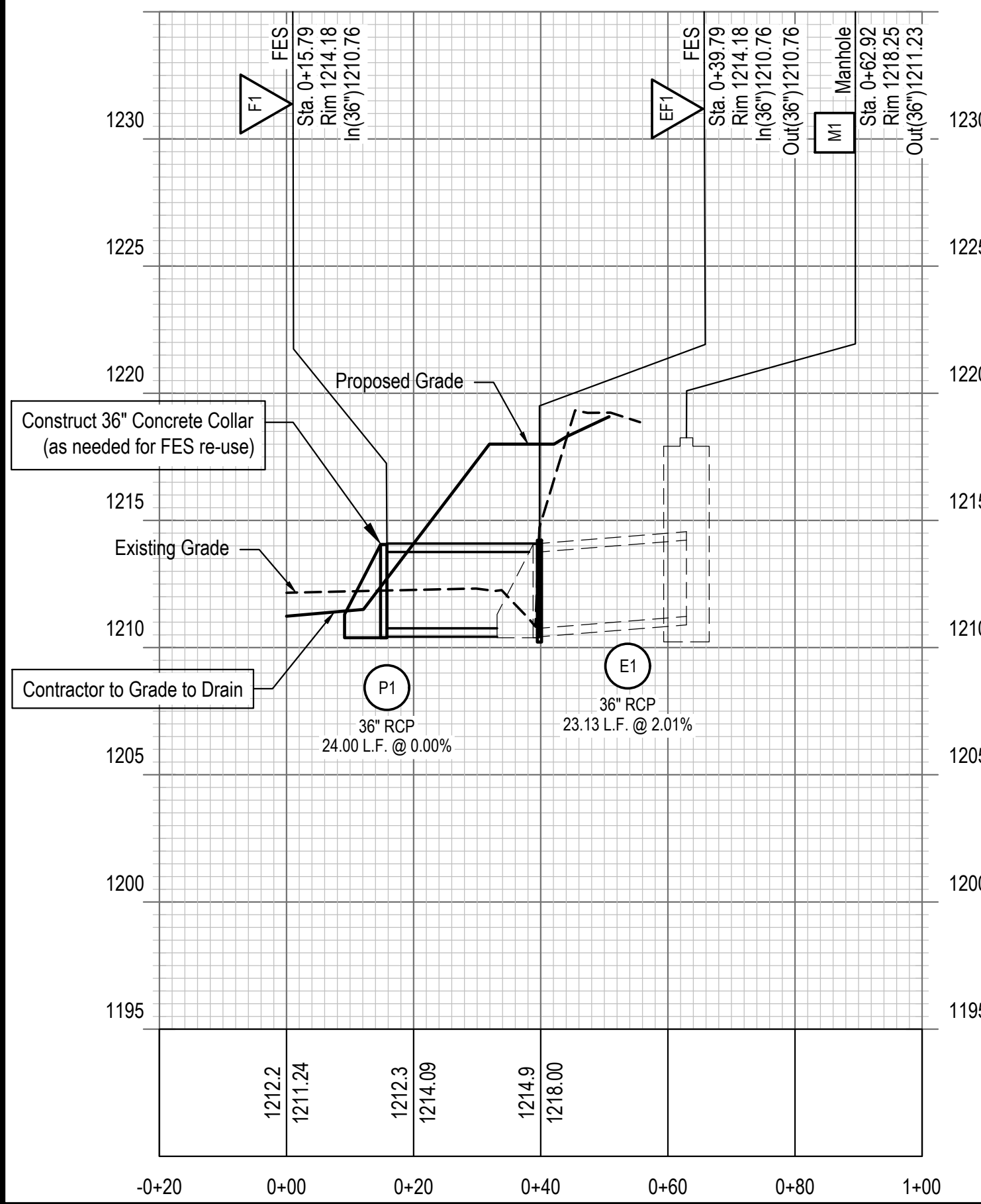
REMOVE & RELOCATE FLARED END SECTION					
ID	Storm Sta.	Description (Size)	Details	Coordinates	Remarks
F1	0+15.79	36"	FL = 1210.76 (36")	N: 513641.52 E: 2679639.17	Remove & Relay FES (pipe couplers subsidiary) Construct 36" Concrete Collar (as needed for FES re-use)
F2	0+21.79	30"	FL = 1210.98 (30")	N: 513652.06 E: 2679673.94	Remove & Relay FES (pipe couplers subsidiary) Construct 30" Concrete Collar (as needed for FES re-use)
F3	0+33.15	24"	FL = 1211.15 (24")	N: 513647.95 E: 2679722.96	Remove & Relay FES (pipe couplers subsidiary) Construct 24" Concrete Collar (as needed for FES re-use)

CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P1	EF1	F1	36"	D(0.01)=1,350	24.00	0.00%	
P2	EF2	F2	30"	III	16.00	0.10%	
P3	EF3	F3	24"	III	24.00	0.50%	



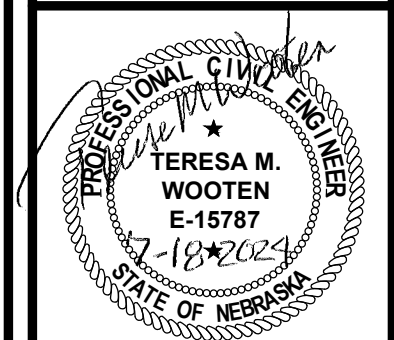
BASIN A

Scale: Horiz. 1"=20'  
 Vert. 1"=5'



PCSPM: SAR-20190130-4865-P PROJECT TYPE: PCSMP

Proj No.	Date	Designed By	Drawn By	Scale	Sheet
P2018.107.003	07/18/2024	JLH	JLH	AS SHOWN	6 of 7



BASIN A - PLAN & PROFILE

REMINGTON WEST  
 SEDIMENT BASIN A & B  
 CONVERSION  
 SUD 343  
 SAPPY COUNTY, NEBRASKA



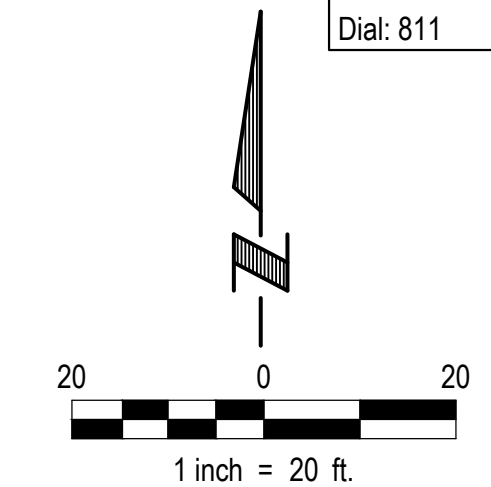
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DRY DETENTION BASIN NOTES											
BASIN	BOTTOM ELEVATION (FT)	TOP ELEVATION (FT)	EXISTING OUTLET PIPE DIAMETER	RISER PIPE DIAMETER	RISER THROAT ELEVATION (FT)	RISER RIM ELEVATION (FT)	ELEVATION (FT)	WIDTH (FT)	DRAINAGE AREA (AC)	REQUIRED (CF)	PROVIDED (CF)
B	1212	1220	24"	TYPE II AI (60") Modified	1217.83	1219.08	1219.75	30	9.17	16,644	28,207



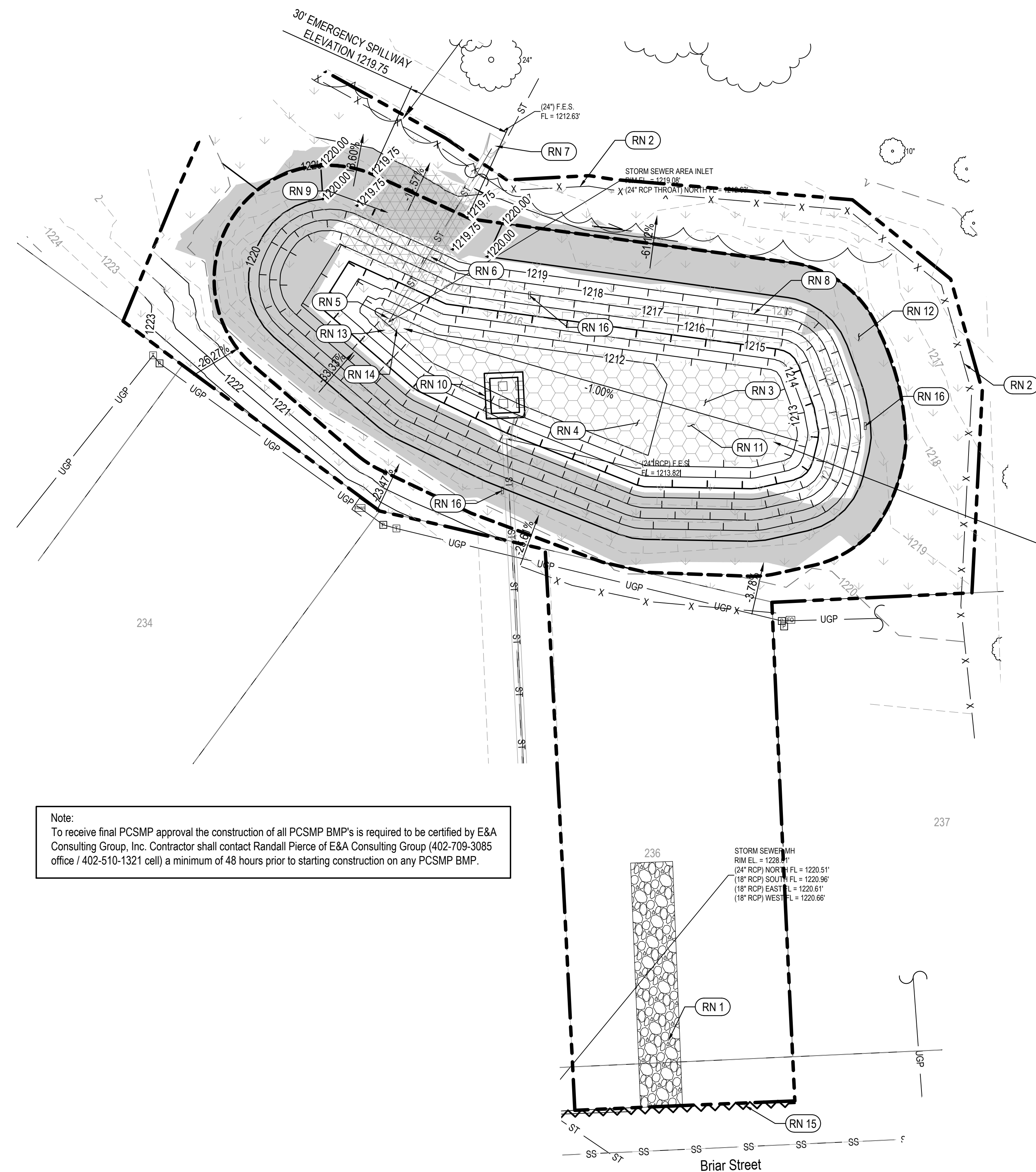
**LEGEND**

- Power Pole
  - Guy Wire
  - Light Pole
  - Fire Hydrant
  - Utility Valve (Water)
  - Utility Valve (Gas)
  - Curb Inlet
  - Manhole
  - Flared End Section
  - Sign
  - Power Riser
  - Telephone Riser
  - Tree
  - ▨ Building
  - X — X — Fence Line
  - G — G — Gas Line
  - UGW — UGW — Water Line
  - Existing Storm Sewer
  - Proposed Storm Sewer
  - ST — ST — Storm Sewer Line
  - SS — SS — Sanitary Sewer Line
  - OHP — OHP — Power Line (Overhead)
  - UGP — UGP — Underground Power Line
  - UGE — UGE — Underground Electrical Line(s)
  - UGC — UGC — Underground Cable Communication Line (Telephone, TV)
  - 1120 — Existing Contours
  - 1170 — Proposed Contours
  - Wattles
  - SF — Silt Fence
  - Limits of Construction
  - PCSPM Basin Perimeter
  - ▨ Fill Areas
  - ▨ Construction Entrance
  - ▨ Flexamat Transition Mat (see Reference Note 10 this sheet)
  - ▨ Seed and Mat Disturbed Area (see Reference Note 12 this sheet)
  - ▨ Seed and Mat Emergency Spillway North American Green VMAX C350 (see Reference Note 9 this sheet)
  - ▨ Seed and Mat - Rain Garden Mix with the following species:
    - Virginia Wildrye 4 PLS lbs per acre
    - Canada Wildrye 3 PLS lbs per acre
    - Prairie Dropseed 0.25 PLS lbs per acre
    - Fowl Bluegrass 1.25 PLS lbs per acre
    - Blue Vervain 0.25 PLS lbs per acre
    - Sweet Blackeyed Susan 0.05 PLS lbs per acre
    - Fox Sedge 0.4 PLS lbs per acre
- Planting Method Shall be per Manufacturer's Recommendation. (See Reference Note 11 this sheet)

**REFERENCE NOTES**

- RN 1 Install, maintain & remove construction entrance, 1 EA. Contractor to verify with Engineer for permission to construct.
- RN 2 Existing silt fence to remain.
- RN 3 Remove temporary sediment basin - See Sheet 3 for detail.
- RN 4 Excavate, dry, and recompact silt or haul off site, 239 CY.
- RN 5 Existing 60" Type II Area Inlet to remain.
- RN 6 Existing 24" RCP to remain.
- RN 7 Existing 24" FES to remain.
- RN 8 Reshape bank to match proposed contours (3:1 slope max).
- RN 9 Emergency spillway, 30 LF, install Type A seed & North American Green VMAX C350, 101 SY, install per manufacturer's recommendation.
- RN 10 Construct Flexamat, total quantity including embedment 143 SF (total this sheet) per manufacturer's recommendations - See Sheet 3 for detail.
- RN 11 Seed and mat bottom of basin with Rain Garden Mix, 277 SY. Planting method shall be per manufacturer's recommendation. See detailed list in the legend on this sheet. Matting shall be North American Green S150, or approved equal.
- RN 12 Install Type A seed and North American Green S150 Matting, 2,237 SY. Planting method shall be per manufacturer's recommendation.
- RN 13 Grout Existing Sediment Basin Weep Holes (subsidiary).
- RN 14 Core Drill (3) - 2" holes through Inlet at CI Elev 1212.01 (subsidiary).
- RN 15 Install straw wattle, 72 LF.
- RN 16 Remove and relay sign, 3 EA.

Contractor shall pump and remove ponded water and suspended sediment and solids from the existing basin. Suspended sediments shall be removed from the basin water using a best management practice of the contractors choosing. Once water has been removed, the basin shall be cleaned and prepared for infilling. Trees shall be removed and grubbed, sediment basin improvements including rip-rap, baffles, refuse, and any unsuitable soils shall be removed and disposed of legally. All removal, clean-up and disposable costs shall be considered incidental to Clearing and Grubbing as part of the Basin Removal Project.

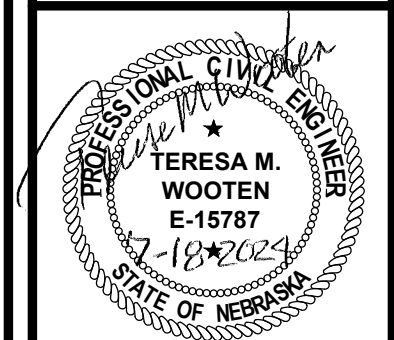


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PCSPM: SAR-20190130-4865-P PROJECT TYPE: PCSPM

Revisions	Date	Description
07/18/2024	JLH	
	AS SHOWN	

Scale: 7 of 7



BASIN B - PLAN

REMINGTON WEST  
SEDIMENT BASIN A & B  
CONVERSION  
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SARPY COUNTY, NEBRASKA



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