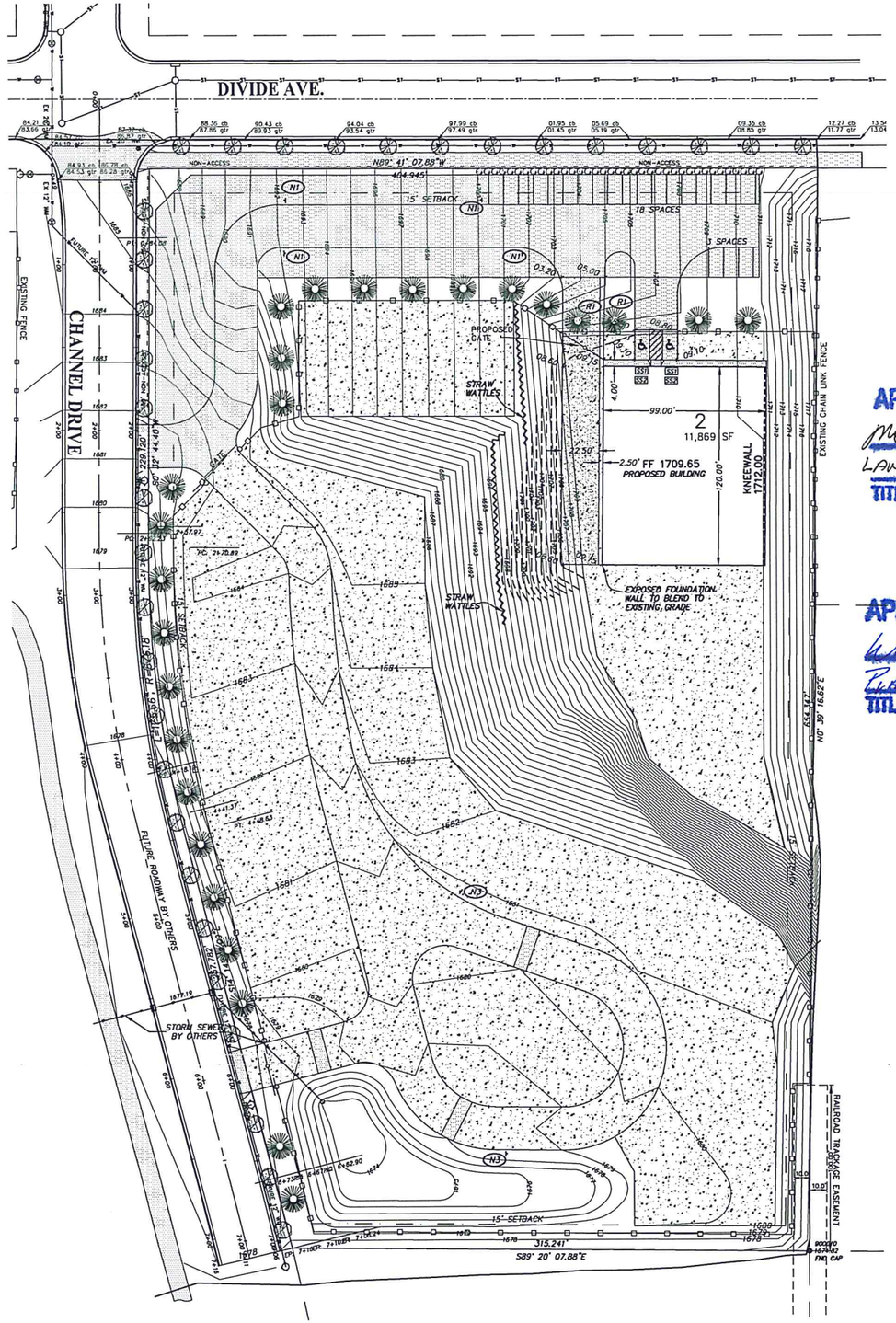
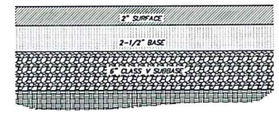
SP2020-027



GRADING PLAN

SCALE: 1" = 40'



4-1/2" FULL DEPTH ASPHALT

12" GRAVEL SECTION (FIRE LANE)

APPROVED BY FORESTRY

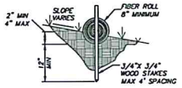
LANDSCAPE 6-11-2020

TITLE DATE

APPROVED BY PLANNING

PLANNER 6-11-2020

TITLE DATE



STRAW WATTLE DETAIL

DETAIL OF STRAW WATTLE INSTALLATION

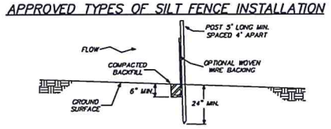
STAKE WATTLES INTO A 2 TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE WATTLE.

DRIVE STAKES AT THE END OF EACH WATTLE AND SPACED 4 FEET MAXIMUM ON CENTER.

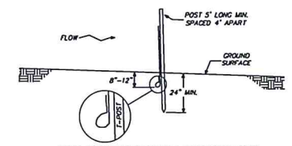
USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 INCH AND MINIMUM LENGTH OF 24 INCHES.

IF MORE THAN ONE STRAW WATTLE IS PLACED IN A ROW, THE WATTLES SHOULD OVERLAP, NOT ABUTTED.

APPROVED TYPES OF SILT FENCE INSTALLATION



DETAIL OF SILT FENCE INSTALLATION (STEEL POST)



DETAIL OF MACHINE SLICED SILT FENCE (STEEL POST)

	SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QNTY.
SHRUBS	AC	ALPINE CURRANT	Ribes alpinum	2 Gallon	37

CONSTRUCTION NOTES

1. LOCATE AND PROTECT ALL EXISTING UTILITIES.
2. AREAS TO BE FILLED WITHIN THE RIGHT OF WAYS AND SITE DRIVING LANES SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 WITH MOISTURE WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT. ALL DETERMINED BY ASTM D1557 WITH MOISTURE WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT.
3. THE CONTRACTOR SHALL ADD WATER IF REQUIRED TO MEET MOISTURE REQUIREMENTS.
4. THE OWNER WILL PAY FOR ALL COMPACTION TESTING EXCEPT THOSE THAT FAIL. COPIES OF TEST RESULTS SHALL BE FORWARDED TO THE ENGINEER. CONTRACTOR SHALL COORDINATE ALL TESTING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROJECT SITE SAFETY.
6. ALL WORK SHALL BE PERFORMED IN A WORKMAN LIKE MANNER AND SHALL CONFORM TO THE MOST RECENT EDITION OF THE CITY OF BISMARCK CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS IMPROVEMENTS AS MODIFIED BY THESE PLANS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS WARNING SIGNS, BARRICADES AND NIGHT LIGHTS AT HIS OWN EXPENSE.
8. PROTECT AREAS NOT TO BE DISTURBED AND ADJOINING PROPERTY.
9. INSTALL 6" CLASS 5 GRAVEL DRIVING SURFACE PER DETAIL THIS SHEET.
10. INSTALL 4-1/2" ASPHALT PER DETAIL THIS SHEET. ASPHALT MATERIAL SHALL CONFORM TO CLASS B PAVING AS SPECIFIED BY CITY OF BISMARCK CONSTRUCTION SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES

- (E) AN N.O.I. AND SWPPP WILL NEED TO BE PREPARED FOR THIS PROJECT BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL SIGN THE DOCUMENTATION AND SUBMIT TO NORTH DAKOTA HEALTH DEPARTMENT AND THE CITY OF BISMARCK. CONTRACTOR SHALL NOT START THE PROJECT UNTIL RECEIVING AN APPROVAL LETTER FROM THE NORTH DAKOTA HEALTH DEPARTMENT AND THE CITY OF BISMARCK.
- (E) CONTRACTOR SHALL IMPLEMENT APPROPRIATE EROSION CONTROL BEFORE BEGINNING ANY LAND DISTURBING ACTIVITIES AS DESIGNED. NOTE: EROSION CONTROL ITEMS SHOWN NEED TO BE IMPLEMENTED AT APPROPRIATE STAGES OF CONSTRUCTION.
- (E) CONTRACTOR SHALL CONTROL DUST BLOWING THROUGHOUT PROJECT.
- (E) CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS AND/OR PROVIDE SOD.
- (E) CONTRACTOR SHALL HAVE A COPY OF THE SWPPP AND EROSION CONTROL PLAN ON-SITE AT ALL TIMES.
- (E) WEEKLY (PLUS WITHIN 24 HOURS OF A STORM WATER EVENT) INSPECTIONS OF THE CONSTRUCTION SITE WILL BE PERFORMED BY PERSONNEL FAMILIAR WITH ALL ASPECTS OF THE SWPPP AND THE IMPLEMENTED CONTROL PRACTICES. INSPECTIONS WILL INCLUDE THE REVIEW OF ALL DISTURBED AREAS, STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES, MATERIAL STORAGE AREAS AND VEHICULAR ACCESS POINTS.
- (E) INSPECTIONS WILL BE PERFORMED AT LEAST ONCE EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM EVENT GREATER THAN 0.5 INCHES OF RAIN WITHIN A 24 HOUR PERIOD.
- (E) EROSION CONTROL FOR PROJECT DESIGNATES A MINIMUM EFFORT TO CONTROL AND CONTAIN EROSION SEDIMENTS. CONTRACTOR SHALL USE DUE DILIGENCE TO CONTROL EROSION.
- (E) SEDIMENT TRACKING ONTO ADJACENT STREETS WILL BE PROHIBITED. STREETS SHALL BE CLEANED WITHIN 48 HOURS IF SEDIMENT TRACKING OCCURS.
- (E) IN GENERAL, STRAW WATTLES OR SILT FENCE SHALL BE PLACED ON LEVEL GROUND 5' TO 10' AWAY FROM DISTURBED AREAS. WHEN FEASIBLE, SILT FENCE SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
- (E) ONCE ALL DISTURBED AREAS HAVE BEEN SEEDED AND MULCHED AND THE SITE DEMONSTRATES A MINIMUM OF 70% VEGETATIVE GROWTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SILT FENCE AND FIBER ROLL REMOVAL.

EROSION CONTROL DURING CONSTRUCTION PROCESS

- (E.1) INSTALL STRAW WATTLES OR SILT FENCE AS DESIGNATED, SEE DETAIL.
- (E.2) CONTRACTOR SHALL INSTALL STABILIZED ACCESS, SEE DETAIL. CONTRACTOR SHALL MINIMIZE ACCESS TO THE STABILIZED ACCESS.
- (E.3) CONTRACTOR SHALL PROVIDE SILT FENCE ALONG PERIMETER OF SITE AS INDICATED ON PLAN.
- (E.4) CONTRACTOR SHALL PROVIDE STRAW WATTLES ALONG SLOPES AS INDICATED ON PLAN.

NOTES

- (N1) INSTALL SIGN TO STATE "NO PARKING FIRE DEPARTMENT ACCESS"

SIGNAGE & PAVEMENT STRIPING

- (SS1) ADA STRIPING FOR LANES AND SYMBOLS SHALL BE BLUE PAINT MEETING THE REQUIREMENT OF AASHTO M28 APPLIED AT A RATE OF 110 SQUARE FEET PER GALLON. PAINT FACE AND TOP OF CURB (6" WIDE) IN FRONT OF ALL HANDICAP STALLS.
- (SS2) PROVIDE AND INSTALL ADA SIGN SECURED TO BUILDING THAT INDICATES "VAN ACCESSIBLE". SIGNS MUST INDICATE "$100 FINE".

REMOVALS

- (R1) REMOVE TREES

LEGEND

- EXISTING CONTOUR
- EXISTING GRADE
- EXISTING TREE
- EXISTING FENCE
- PROPOSED CONTOUR
- PROPOSED FIBER ROLLS
- PROPOSED SILT FENCE
- PROPOSED GRAVEL
- PROPOSED 8' OPAQUE VINYL FENCE
- PROPOSED GRADE
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL

N W E S

0 40 80

SCALE: 1" = 40'
MAY 5, 2020
VERTICAL DATUM: NAVD 88

SAFETY NOTICE TO CONTRACTOR

In accordance with generally accepted construction practices the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business hours.

UTILITY NOTICE TO CONTRACTOR

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the Owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. Underground locates can be made by using the "One Call" number 1-800-795-0555.

WARRANTY / DISCLAIMER

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CALL BEFORE YOU DIG
NORTH DAKOTA
UTILITIES UNDERGROUND LOCATION SERVICE

PRELIMINARY-NOT FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

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REVISION	DATE

SITE PLAN, GRADING & LANDSCAPING

PORTION OF LOT 2, BLOCK 1,
MIRIAM INDUSTRIAL PARK SECOND ADDITION,
BISMARCK, NORTH DAKOTA

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Civil Engineering
Landscape & Site Design
Construction Management

DRAWN BY: MK
CHECK BY: JP
DATE: 5/5/20
FILE DESC:
COMPUTER FILE: MIRIAM/DC AUTO 2020 SITE PLAN
SURVEY FILE:

SHEET 2 OF 2