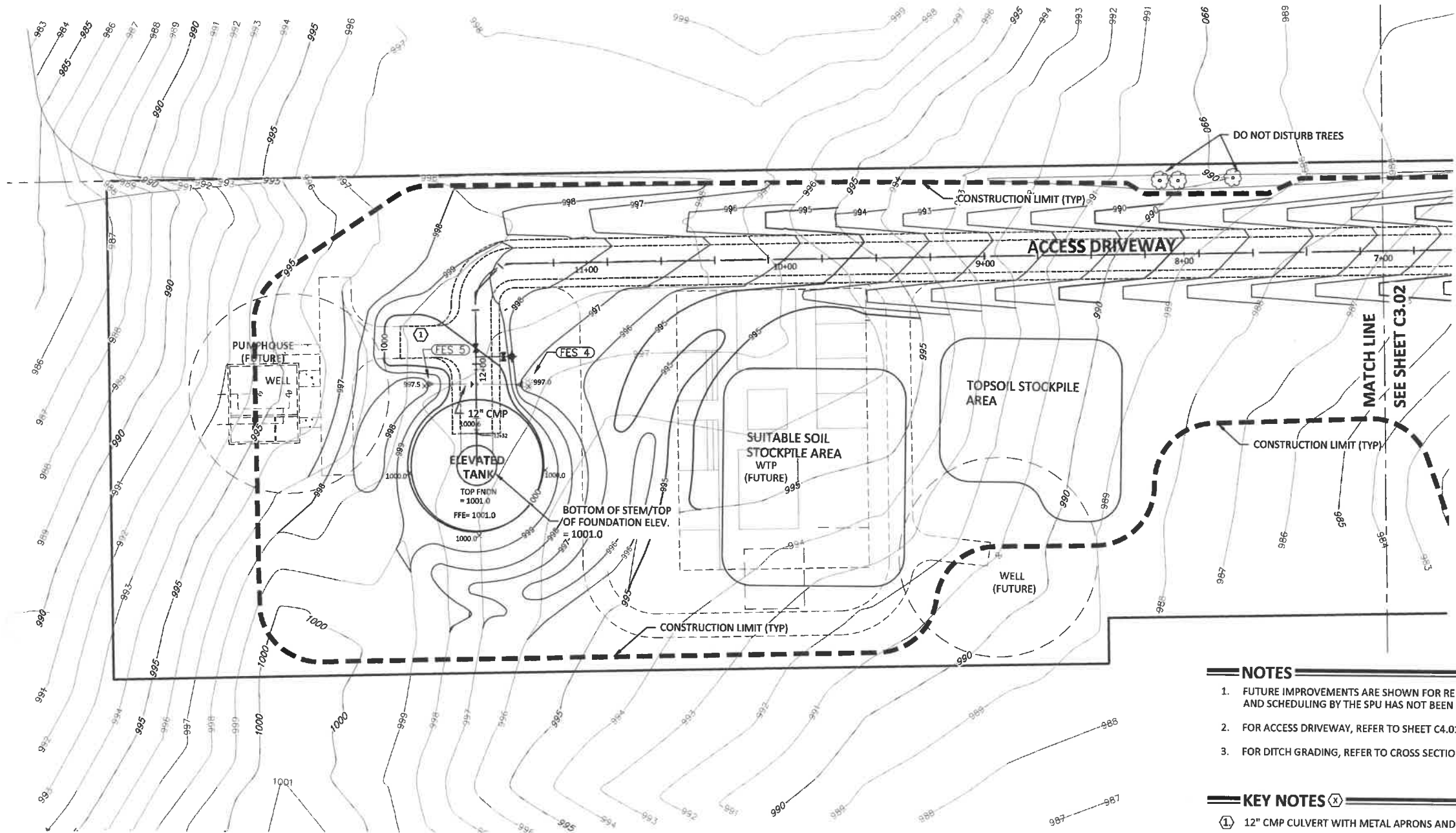
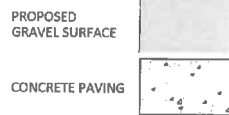


LEGEND



NOTES

1. FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. FUTURE USE AND SCHEDULING BY THE SPU HAS NOT BEEN ESTABLISHED.
2. FOR ACCESS DRIVEWAY, REFER TO SHEET C4.01.
3. FOR DITCH GRADING, REFER TO CROSS SECTIONS.

KEY NOTES

- ① 12" CMP CULVERT WITH METAL APRONS AND 2.1 C.Y. RIPRAP.

GRADING NOTES

- A. PROPOSED CONTOURS ARE TO FINISHED SURFACE ELEVATION. SPOT ELEVATIONS DENOTE FINISHED GRADE.
- B. REFER TO EROSION CONTROL SHEETS C5.01, C5.02 FOR EROSION CONTROL MEASURES.
- C. REFER TO LANDSCAPE PLANS FOR TURF RESTORATION. SHEETS L1.01 & L1.02
- D. REFER TO UTILITY PLAN SHEET C4.01 AND C4.02 FOR STORM SEWER AND WATERMAIN.
- E. FOR WATER TANK FLOOR AND FOUNDATION PLANS, REFER TO WATER TANK DETAIL SHEETS T1.01-T1.02.
- F. REFER TO PROJECT SPECIFICATIONS FOR BUILDING AND PAVEMENT SUBGRADE AND BASE DENSITY COMPACTION REQUIREMENTS.
- G. SALVAGE ALL TOPSOIL AND RE-SPREAD TO A MINIMUM 6" DEPTH. SUPPLEMENT WITH TOPSOIL BORROW IF REQUIRED. QUANTITIES INDICATE ADEQUATE SUPPLY OF OF EXISTING TOPSOIL TO MEET 6" MINIMUM.
- H. THE GRADING PLAN EARTHWORK WILL NOT BALANCE. STOCKPILE MATERIAL TO COMPLETE THE FINISHED SITE GRADING. STOCKPILE EXCESS MATERIAL IN AREAS DESIGNATED ON THE PLANS. EXCESS MATERIAL REMAINING AFTER FINISHED GRADING TO BE GRADED AS DIRECTED BY ENGINEER.
- I. REPLACE ALL SUBGRADE SOIL DISTURBED DURING THE CONSTRUCTION THAT HAS BECOME UNSUITABLE AND WILL NOT PASS A TEST ROLL. REMOVE UNSUITABLE SOIL FROM THE SITE AND IMPORT SUITABLE SOIL AT NO ADDITIONAL COST TO THE OWNER. ALL AREAS OUTSIDE THE PROPERTY BOUNDARIES THAT ARE DISTURBED BY CONSTRUCTION TO BE RESTORED IN KIND.
- J. SUITABLE GRADING MATERIAL CONSISTS OF ALL SOIL ENCOUNTERED ON THE SITE WITH EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL. STOCKPILE TOPSOIL AND GRANULAR FILL.

- K. SUBGRADE EXCAVATION TO BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID UNDERMINING OF THE EXISTING PAVEMENT SURFACES.
- L. ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS, BECOMES THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF THE CONSTRUCTION SITE PER FEDERAL, STATE AND LOCAL REGULATIONS.
- M. COMPLETION OF SITE GRADING AND TOPSOIL SPREADING SHALL RESULT IN ALL AREAS BEING GRADED TO "PLAN FINISH ELEVATION".
- N. CONTRACTOR IS RESPONSIBLE FOR GRADING AND SLOPING THE FINISHED GROUND SURFACE TO PROVIDE SMOOTH & UNIFORM SLOPES, WHICH PROVIDE POSITIVE DRAINAGE. CONTACT ENGINEER IF FIELD ADJUSTMENTS TO GRADING PLANS ARE REQUIRED.
- O. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF PAVEMENT WHICH PROVIDES SMOOTH UNIFORM SLOPES AND POSITIVE DRAINAGE. CONTACT ENGINEER IF FIELD ADJUSTMENTS ARE REQUIRED.
- P. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE DRIVEWAY AND PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
- Q. RE-COMPACTION OF EXISTING FILL SOILS;
 1. SUBGRADE SOILS WILL BE DENSITY TESTED BY OWNER PRIOR TO FILL PLACEMENT.
 2. REMOVE SOIL, BACKFILL AND COMPACT AS DIRECTED BY SOILS ENGINEER.
- R. TOTAL SITE AREA 7.02 AC.

Client

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PROJECT MANAGER: JOHN KARWACKI P.E.

Project
WATER TANK 8

Location
SHAKOPEE, MN

Certification

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Minnesota.

John Karwacki
Registration No. 16532 Date: X/XX/2019
If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's Minnetonka, MN office.

Summary

Designed: JAK Drawn: DIO
Approved: JAK Book / Page:
Phase: FINAL Initial Issue: 8/01/2019

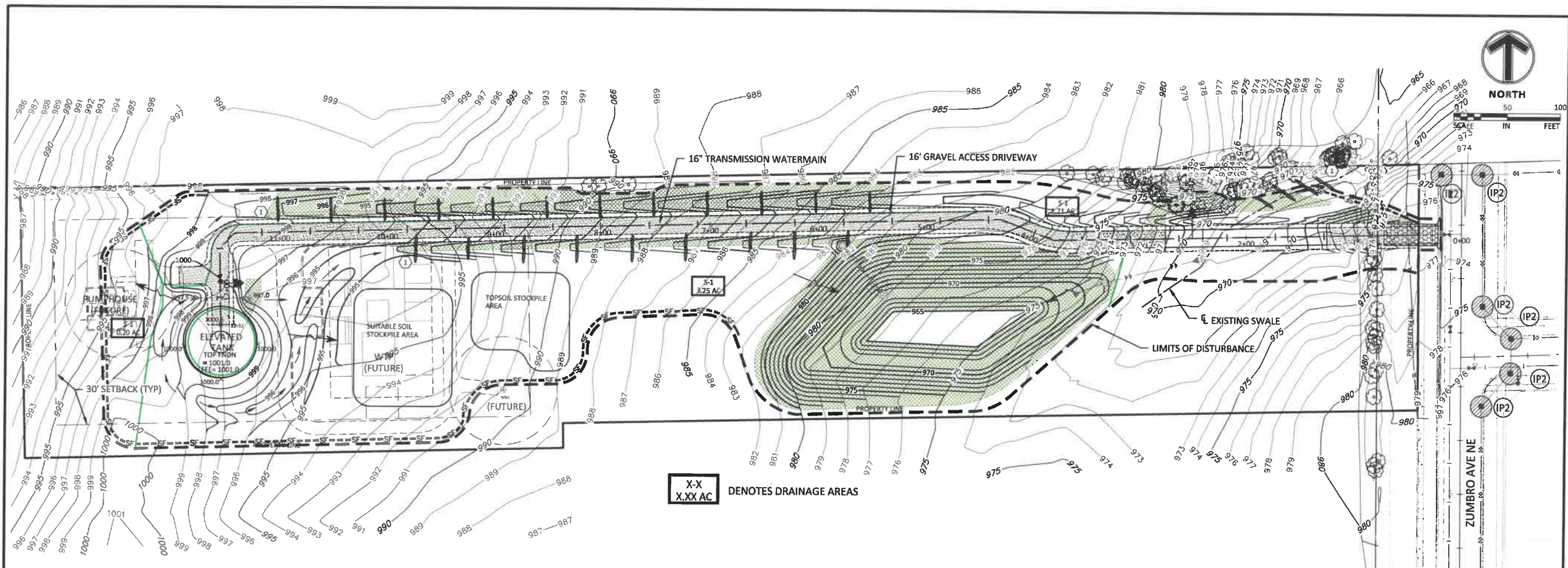
Revision History

No. Date By Submittal / Revision

Sheet Title
TANK SITE
GRADING PLAN

Sheet No. Revision
C3.01

Project No. 20709.05



KEY NOTES (X)

1. PLACE STAKED BIO-ROLLS AS DIRECTED BY THE ENGINEER
2. SAVE TREES. REFER TO NOTES ON SHEET C3.01

CONSTRUCTION NOTES

- A. REFER TO SHEET C2.01 FOR SITE PLAN.
- B. REFER TO SHEET C3.01 FOR TANK SITE GRADING PLAN.
- C. REFER TO SHEET C6.02 FOR EROSION CONTROL GENERAL NOTES AND DETAILS.
- D. REFER TO SHEETS L1.01 AND L1.02 TURF MIXES AND GRASS RESTORATION.
- E. RESTORE ALL AREAS USED FOR PARKING AND MATERIAL STORAGE.
- F. HYDRO MULCH "HYDRO COVER CELLULOSE WITH TACK. MANUFACTURED BY PROFILE PRODUCTS OR EQUAL.

SEQUENCE OF CONSTRUCTION

1. MAINTAIN CB INSERTS.
2. INSTALL WATERMAIN.
3. GRADE ACCESS DRIVEWAY.
4. GRADE NORTH DITCH AND STABILIZE WITH TURF AND EC MATS, BIOROLLS, AND SILT FENCE.
5. WATER TANK CONSTRUCTION.
6. GRADE SOUTH DITCH AND STORMWATER BAS. STABILIZE WITH TURF AND EC MATS, BIOROLLS, AND SILT FENCE.
7. INSTALL STORMSEWER.

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IF THE CONTRACTOR ENCOUNTERS ANY DRAIN TILE WITHIN THE SITE, HE OR SHE SHALL NOTIFY THE ENGINEER WITH THE LOCATION, SIZE, INVERT AND IF THE TILE LINE IS ACTIVE. NO DRAIN TILE SHALL BE BACKFILLED WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

EROSION CONTROL MATERIALS QUANTITIES

ITEM	UNIT	QUANTITY
SILT FENCE	LINEAR FEET	1056
SILT DIKE	LINEAR FEET	N/A
BIO-ROLL	LINEAR FEET	500
CONSTRUCTION ENTRANCE	UNIT	N/A
INLET PROTECTION DEVICE (IP-1)	UNIT	0
INLET PROTECTION DEVICE (IP-2)	UNIT	6

* REFER TO SHEET C6.03 FOR GENERAL NOTES, MAINTENANCE NOTES, LOCATION MAPS, AND STANDARD DETAILS

AREA SUMMARY IN ACRES

PAVEMENT AREA	0.67 AC±
BUILDING AREA	0.07 AC±
SEEDING/SODDED AREA	2.97 AC±
TOTAL DISTURBED	4.71 AC±
PRE - CONSTRUCTION IMPERVIOUS	0.00 AC±
POST - CONSTRUCTION IMPERVIOUS	0.74 AC±

LEGEND

	PROPOSED	EXISTING
CURB & GUTTER		
STORM SEWER		
DRAIN TILE		
CONTOUR		
RIP RAP		
OVERFLOW ELEV.		
SILT FENCE		
SILT DIKE		
LIMITS OF DISTURBANCE		
SOIL BORINGS		
DIRECTION OF OVERLAND FLOW		
TEMPORARY DIVERSION DITCH		
CHECK DAM		
LIMITS OF DRAINAGE SUB-BASIN		
BIO-ROLL		
INLET PROTECTION DEVICE 1		
INLET PROTECTION DEVICE 2		
TEMPORARY STONE CONSTRUCTION ENTRANCE		
TEMPORARY SEDIMENT BASIN		
TEMPORARY STORAGE AND PARKING AREA		
TEMPORARY STABILIZATION MEASURES (SEED, MULCH, MATS OR BLANKETS AS OUTLINED IN THE SWPPP)		
GRASS RESTORATION		
GRASS RESTORATION WITH WOOD FIBER MAT		

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WATER TANK 8

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John Karwacki
Registration No. 16532 Date: X/XX/2019
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Summary
Designed: JRK Drawn: DJD
Approved: JRK Book: / Page:
Phase: FINAL Initial Issue: 8/01/2019

Revision History
No. Date By Submittal / Revision

Sheet Title
PHASE 2
EROSION
CONTROL PLAN

Sheet No. Revision
C6.02

Project No. 20709.05