

Figures

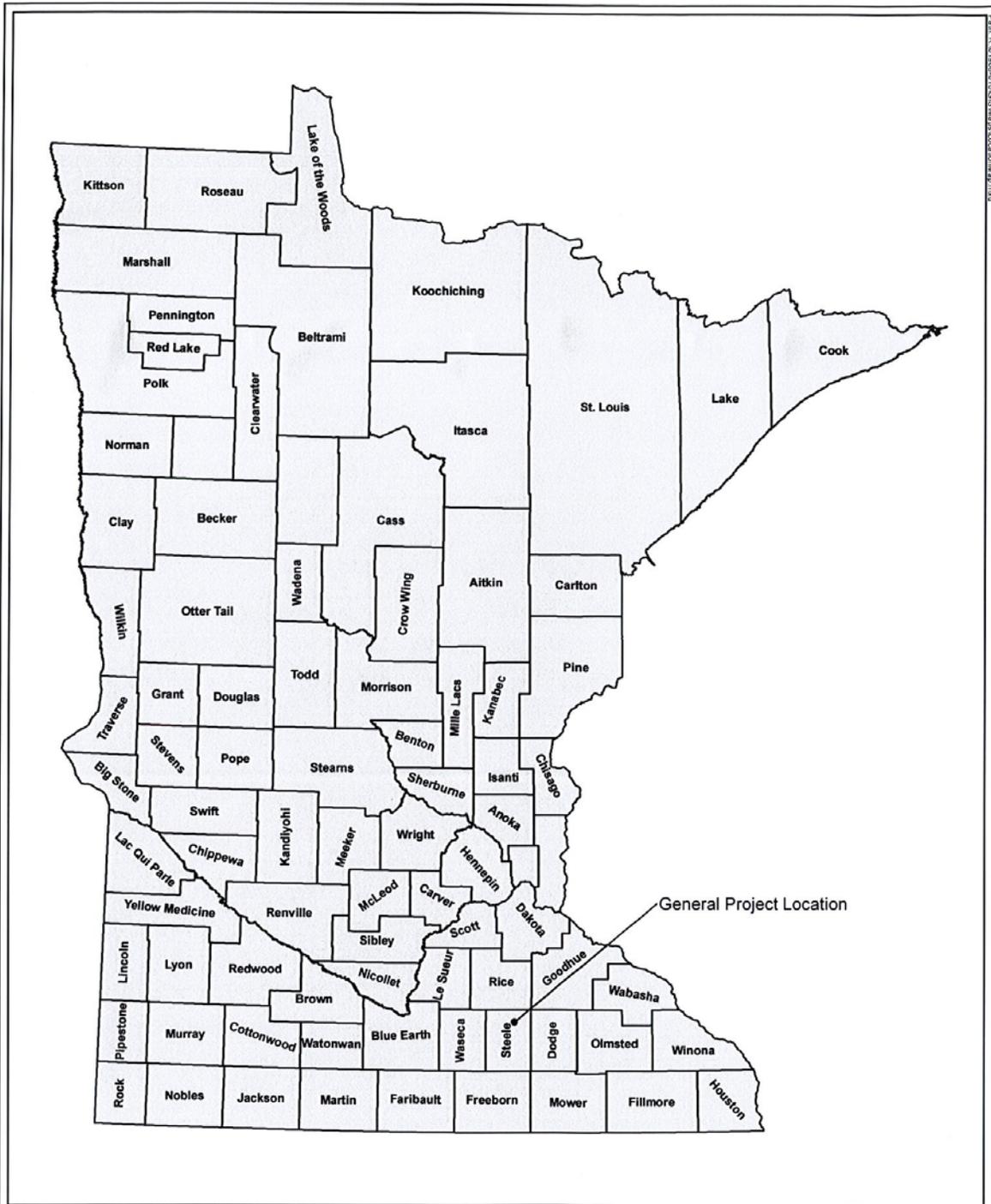


Figure 1: Project Location - County Location
Steele County Public Works Facility
Steele County, Minnesota



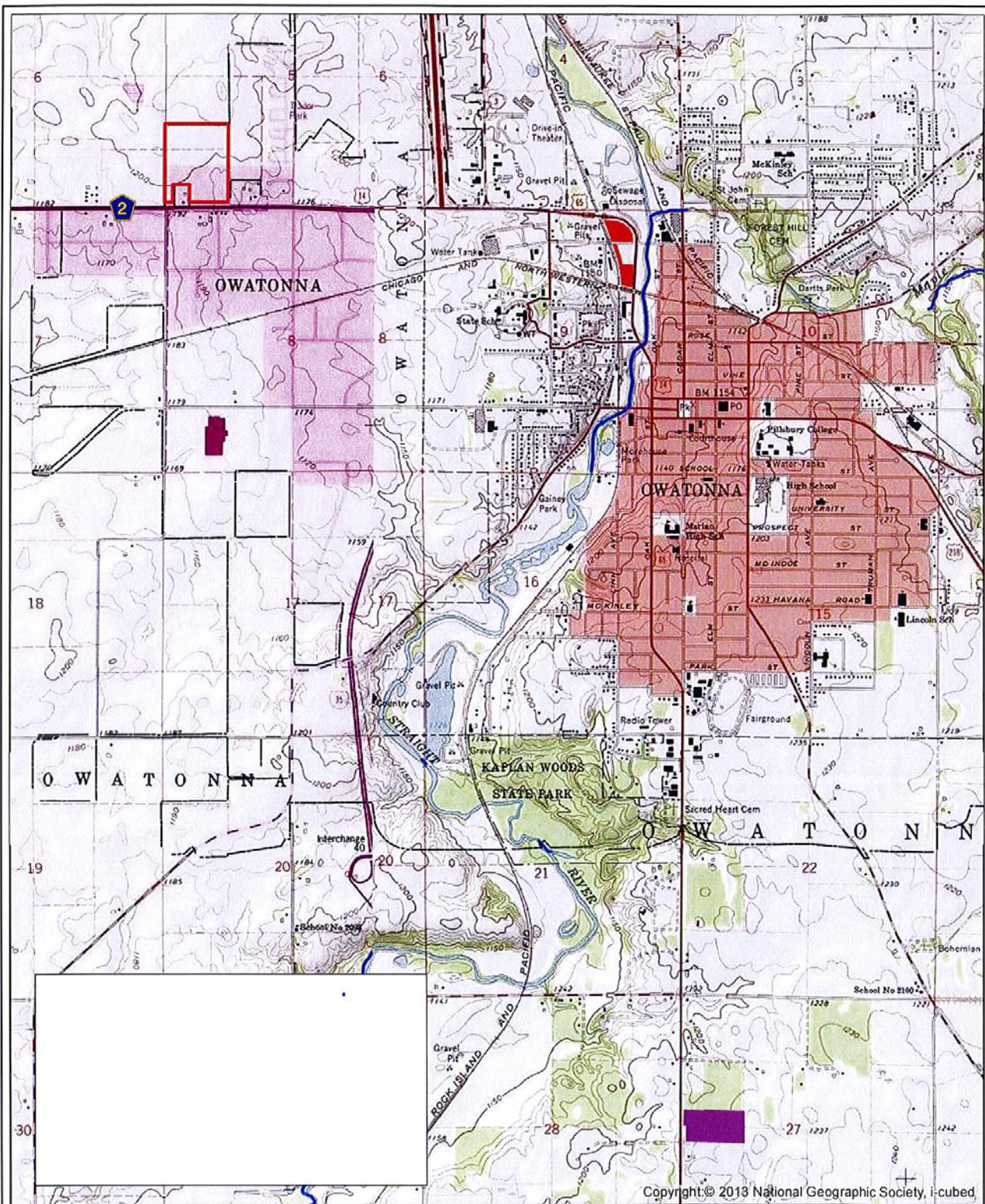


Figure 2: Project Location - Project Alternatives
Steele County Public Works Facility
Steele County, Minnesota

0 0.9 Miles



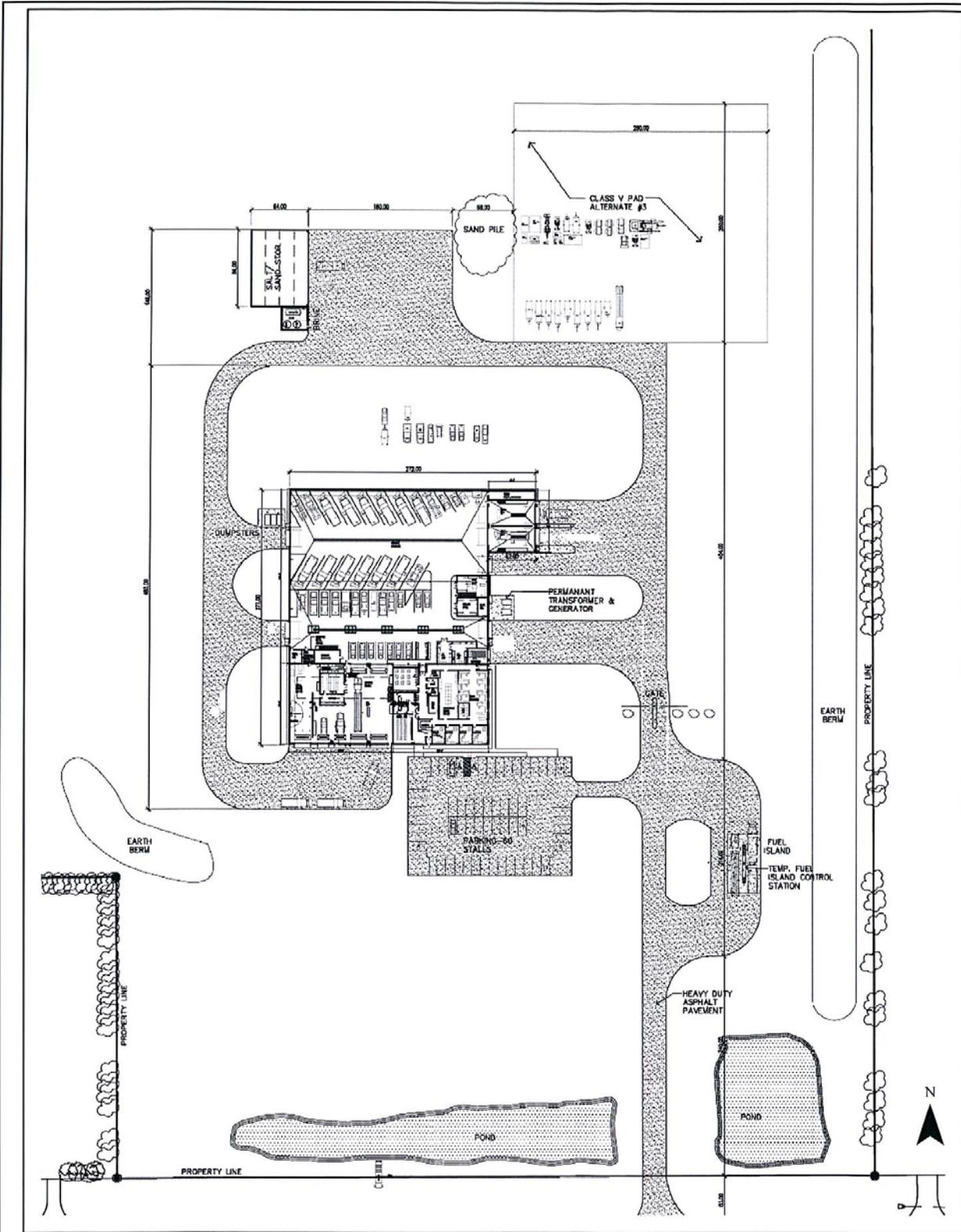
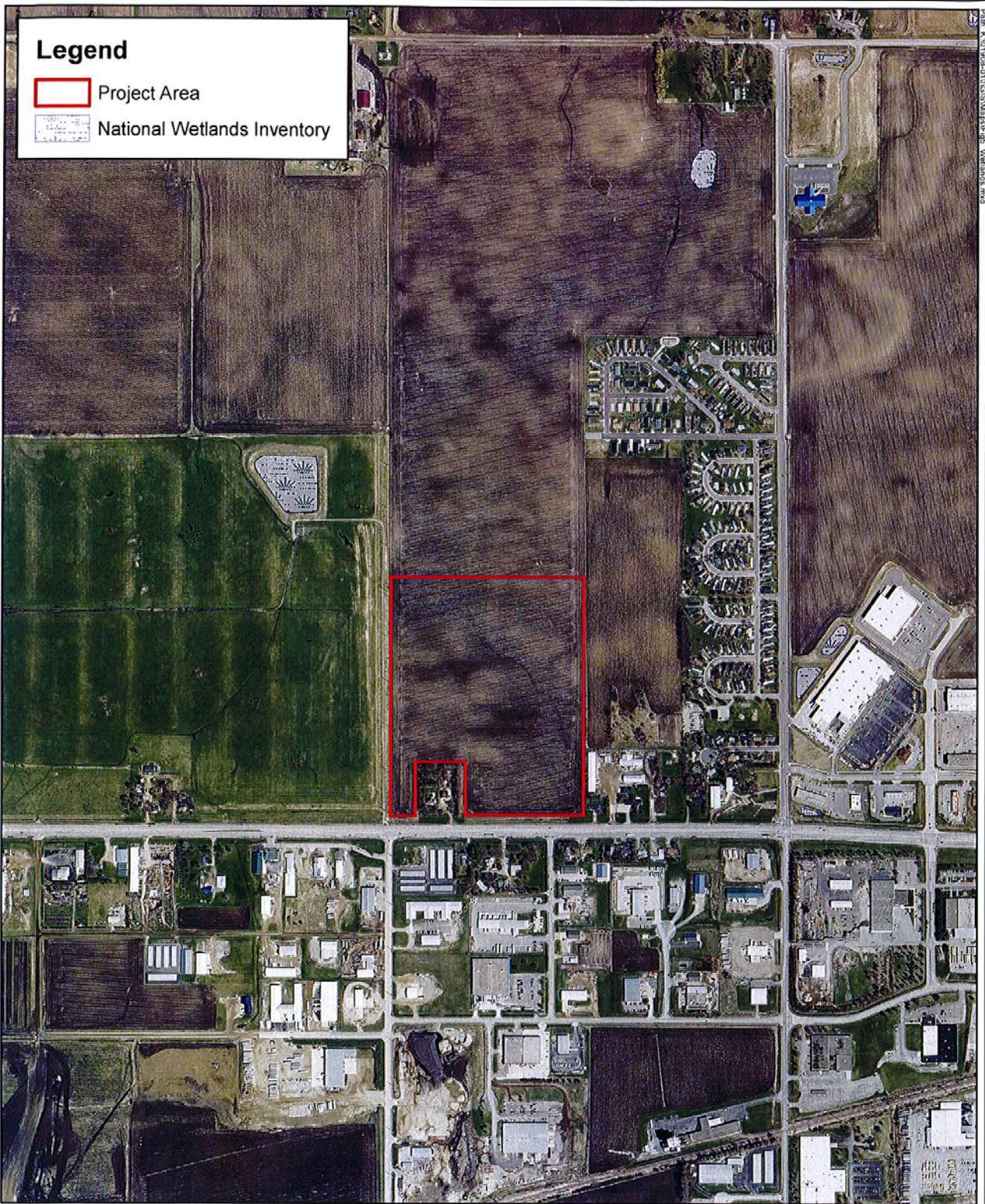


Figure 3: Site Plan (Preferred Alternative)
Steele County Public Works Facility
Steele County, Minnesota



Legend

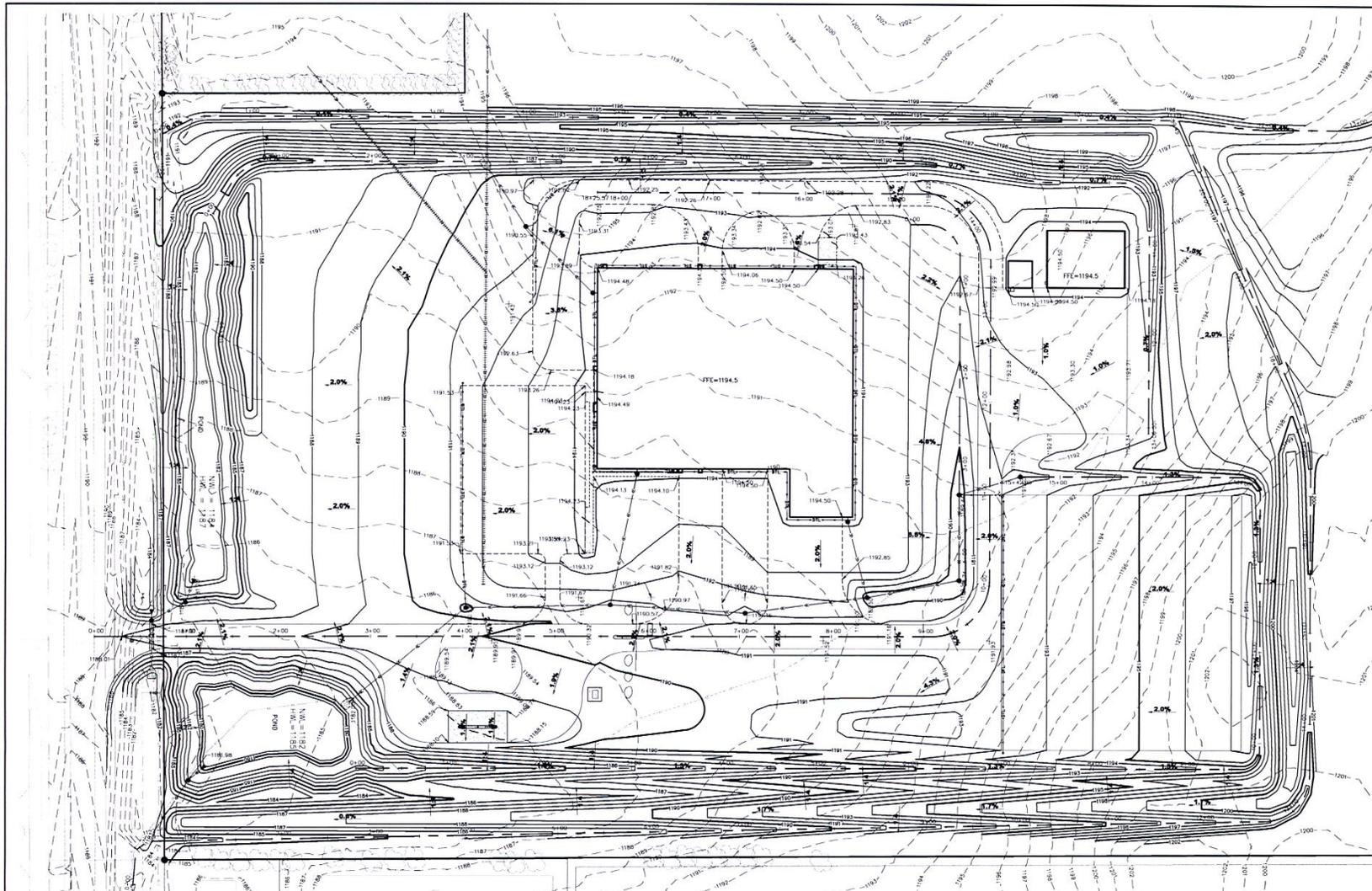
-  Project Area
-  National Wetlands Inventory



**Figure 5: Surface Waters
Steele County Public Works Facility
Steele County, Minnesota**

0 900 Feet





GRADING NOTES

- A. CONTRACTOR SHALL REVIEW PAVEMENT GRADIENT AND CONSTRUCT "GUTTER OUT" WHERE WATER DRAINS AWAY FROM CURBS. ALL OTHER AREAS SHALL BE CONSTRUCTED AS "GUTTER IN" CURBS.
- B. ALL GRADIENTS ON SIDEWALKS ALONG THE ADA ROUTE SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20), EXCEPT AT CURB RAMPS (1:12), AND A MAXIMUM CROSS SLOPE OF 2%. ALL GRADIENTS ON SIDEWALKS ALONG THE ADA ROUTE SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20), EXCEPT AT CURB RAMPS (1:12), AND A MAXIMUM CROSS SLOPE OF 2%. ALL GRADIENTS ON SIDEWALKS ALONG THE ADA ROUTE SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20), EXCEPT AT CURB RAMPS (1:12), AND A MAXIMUM CROSS SLOPE OF 2%.
- C. THE CONTRACTOR IS CAUTIONED THAT THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF GARAGE 3603 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 (ISDHS STATE ONE FOR MINNESOTA AT 1-800-250-1190), THE CONTRACTOR AND/OR SUBCONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).
- D. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH PRIVATE UTILITY COMPANIES FOR RELOCATIONS OF ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- E. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- F. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON 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 WORKING HOURS. THE DUTY OF THE OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.

- F. THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
- G. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE STREET AND PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LANSIE TANDER AXLE TRUCK WITH A GROSS WEIGHT OF 20 TONS. THE TEST ROLL 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 UNSUITABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
- H. REPLACE ALL SUBGRADE SOIL DISTURBED DURING THE CONSTRUCTION THAT HAVE 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.
- I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION (DOT) STANDARDS.
- M. IF THE CONTRACTOR INDICATES 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 ACTIVE DRAIN TILE SHALL BE BACKFILLED WITHOUT REVIEW, DISCUSSION AND APPROVAL FROM THE PROJECT ENGINEER.

3. ALL NON-PAVED DISTURBED AREA TO RECEIVE A MINIMUM OF 4" SELECT TOPSOIL. SOIL CORRECTION TO INCLUDE DECOMPACTION OF ALL SEEDLID AREAS.

UTILITY LEGEND

- DENOTES PROPOSED DRAIN TILE
- DENOTES PROPOSED STORM SEWER
- DENOTES PROPOSED MANHOLE CATCH BASIN
- ▶ DENOTES PROPOSED FLARED END SECTION

LEGEND

- | | | | |
|-----------------------|------------|------------|------------------|
| PROPERTY LIMIT | — PROPOSED | — EXISTING | — TRELLISE |
| BUILDING | — PROPOSED | — EXISTING | — SPOT ELEVATION |
| STORM SEWER | — PROPOSED | — EXISTING | — CONTOUR |



OERTEL ARCHITECTS
 1701 Third Street Avenue
 St. Paul, Minnesota 55107
 (612) 486-1146 Fax
 (612) 486-1148 Fax
 www.oertelarchitects.com

**STEELE COUNTY
 Public Works
 Service Center**

OWATONNA, MN

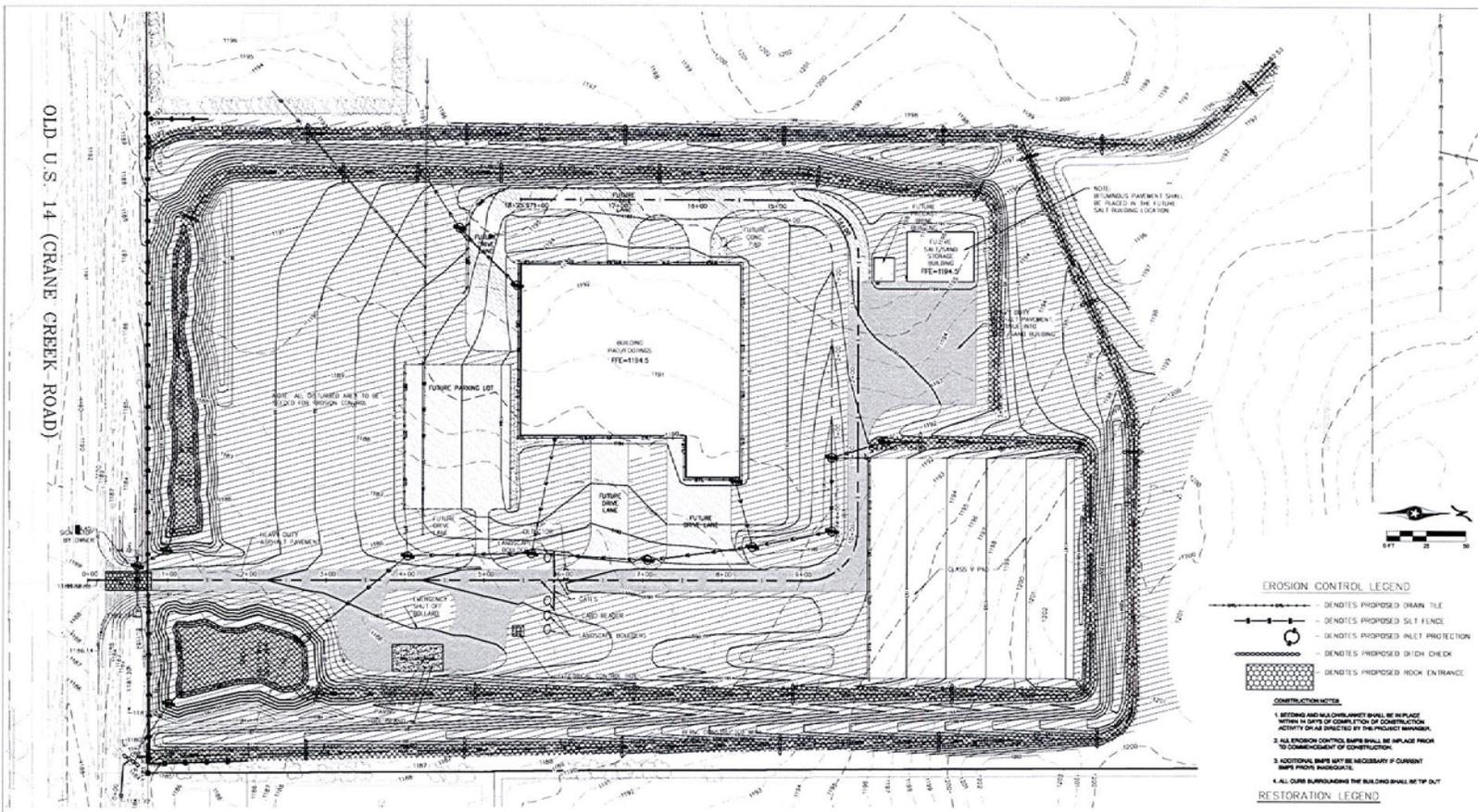
WSB
 701 Kansas Avenue South Suite 300
 Minneapolis, MN 55416
 Tel: 763.541.4800
 Fax: 763.541.1200
 www.wsbang.com

PROJECT NUMBER	11-15 (0188) 000
DATE OF ISSUE	3.7.2016
ISSUED BY	OU
DESIGNED BY	11
DATE	

**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT IN THE STATE OF MINNESOTA.

GRADING PLAN



OLD U.S. 14 (CRANE CREEK ROAD)



STEELE COUNTY
Public Works
Service Center

OWATONNA, MN



EROSION CONTROL LEGEND

- DENOTES PROPOSED DRAIN TILE
- DENOTES PROPOSED SILT FENCE
- DENOTES PROPOSED INLET PROTECTION
- DENOTES PROPOSED DITCH CHECK
- DENOTES PROPOSED HOOD ENTRANCE

CONSTRUCTION NOTES

1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY OR AS DIRECTED BY THE PROJECT MANAGER.
2. ALL EROSION CONTROL BARRIERS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. ADDITIONAL BARRIERS MAY BE NECESSARY IF CURRENT BARRIERS PROVE INADEQUATE.
4. ALL CURBS SURROUNDING THE BUILDING SHALL BE TOP OUT.

RESTORATION LEGEND

- HYDROSEEDING - MIXED 25-14 (50 LB/ACROSS) MIX (TYPE V HYDROSEED), TYPE 1 FERTILIZER (20 LB/ACROSS) (SEE MIXED 2175, 2825, 2881 & 2882)
- SEEDING - MIXED 25-14 (100 LB/ACROSS) MIX (TYPE MIXED 2020 & 2021) (SEE EROSION CONTROL PLAN FOR SEEDING RATES)
- TEMPORARY VEGETATIVE COVER
- PROPOSED HEAVY DUTY BITUMINOUS PAVEMENT
- PROPOSED CONCRETE

RESTORATION NOTES

1. TEMPORARY OR PERMANENT MULCH MUST BE UNIFORMLY APPLIED BY BROADCASTING OR HYDRALIC MEANS AND STABILIZED BY SSC ANCHORING OR USE OF HYDRALIC SOIL STABILIZERS.
2. PROVIDE A TEMPORARILY WILD TAPE COVER CONSISTING OF 2" GAUGE 1" PLY-CORING BENEATH SEED MIX. STRIPES AT 1.5 TIMES THE USUAL RATE FOR AREAS OF IMPROVED EROSION. TO BE MAINTAINED IN PLACE PAST THE GROWING SEASON. END-RODS OF THE SEED MIX SHALL BE COMPLETED OF PERMANENT GRASSES.
3. ALL DISTURBED AREA (EXCEPT FUTURE DRIVE AREA) TO RECEIVE A MINIMUM OF 4" DEPTH OF TOP SOIL CONNECTION TO INCLUDE COMPACTION OF ALL SEEDER AREAS.

UTILITY LEGEND

- DENOTES PROPOSED DRAIN TILE
- DENOTES PROPOSED STORM SEWER
- DENOTES PROPOSED MANHOLE CATCH BASIN
- DENOTES PROPOSED FLARED END SECTION

SOIL EROSION / SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
TEMPORARY CONTROL MEASURES																			
STRIP & STOCKPILE TOPSOIL																			
ROUGH GRADE / SEDIMENT CONTROL																			
TEMPORARY CONSTRUCTION ROADS																			
FOUNDATION / BUILDING CONSTRUCTION																			
SITE CONSTRUCTION																			
PERMANENT CONTROL STRUCTURES																			
FINISH GRADING																			
LANDSCAPING / BURNAL STABILIZATION																			
STORM FACILITIES																			

NOTE: CONTRACTOR OR GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

NOTE TO CONTRACTOR

THE EROSION CONTROL PLAN SHEET IS ALONG WITH THE REST OF THE SHEET MUST BE KEPT ON SITE UNTIL THE NOTICE OF TERMINATION IS FILED WITH THE AERCA. THE SHEET IS NOT NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS. SUCH AS: PLAN ADDITIONAL OR MODIFIED BARRIERS INCLUDING THE EROSION CONTROL PLAN SHEET AFTER FILING THE NOTICE OF TERMINATION. THE SHEET INCLUDING THE EROSION CONTROL PLAN SHEET, AND ALL REQUIREMENTS TO BE MADE BY SUBMITTED TO THE AERCA, TO BE KEPT ON FILE IN ACCORDANCE WITH THE RECORD RETENTION REQUIREMENTS SPECIFIED IN THE SHEET MANUAL.

AREA SUMMARY IN ACRES

PAVEMENT AREA	3.57 AC
GREEN PAVEMENT AREA	1.62 AC
GREEN PERVIOUS AREA	19.06 AC
TOTAL IMP. FURNISH	24.25 AC
ONE - CONSTRUCTION IMPROVEMENT	5.00 AC
POST - CONSTRUCTION IMPROVEMENT	5.19 AC

SEQUENCE OF CONSTRUCTION

- PHASE I:**
1. INITIAL STABILIZED CONSTRUCTION ENTRANCES.
 2. PROVIDE TEMPORARY PARKING AND STORAGE AREA.
 3. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BARRIERS.
 4. HIRE ALL NECESSARY AND CONTRACT THE COUNTY OR OWNERS REPRESENTATIVE TO PERFORM INSPECTION OF IMPROVEMENTS.
 5. CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH COUNTY AND ALL GRASS DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
 6. CLEAR AND GRUB THE SITE.
 7. BEGIN GRADING THE SITE.
 8. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
- PHASE II:**
1. TEMPORARILY SEED BENEATH AREAS.
 2. INSTALL UTILITIES, UNDERDRAIN, STORM SEWERS, CURBS AND GUTTERS.
 3. INSTALL HRP RAMP AROUND OUTLET STRUCTURES.
 4. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
 5. PROTECT LIFE LINE TRACING.
 6. FINAL SITE.
 7. INSTALL INLET PROTECTION DEVICES.
 8. COMPLETE GRADING AND INSTALL PERMANENT SEDIMENT AND PAVING.
 9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
 10. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY IF SITE IS STABILIZED AS REQUIRED BY THE CONTRACT.

PRELIMINARY NOT FOR CONSTRUCTION

I HEREBY CERTIFY THAT THIS DOCUMENT HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT IN THE STATE OF MINNESOTA.

EROSION CONTROL PLAN