

Information for File # 2014-00594-RMM

Applicant: Bois de Sioux Watershed District

Corps Contact: Ryan Malterud

Address: 180 Fifth Street East, St. Paul, Minnesota 56101

E-Mail: Ryan.M.Malterud@usace.army.mil

Phone: (651) 290-5286

Primary County: Traverse

Section: 13 and 14

Township: 129 North

Range: 45 West

Information Complete On: February 27, 2014

Posting Expires On: April 2, 2014

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. Any approved jurisdictional determination made prior to reaching a permit decision will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project Description and Purpose (As stated by the applicant):

The Bois de Sioux Watershed District received a petition for the construction of a new open ditch lateral to Judicial Ditch 12, called Watershed Ditch (WD) 3. The proposed ditch will follow the alignment of a ditch originally known as State Ditch (SD) 18. SD18 was built sometime in the early twentieth century. SD 18 has been abandoned and is in a state of disrepair. The applicant has stated that as an abandoned system, there is no existing mechanism for restoring or maintaining the ditch. Historically the ditch had inadequate capacity to serve the upstream drainage area of about 55 square miles.

The new construction of WD3 will benefit the North Ottawa Impoundment directly east of the ditch. The eastern portion of WD3 will be fed by an outlet structure from the impoundment. The impoundment will benefit from the ditch construction because it will have the carrying capacity to handle the flows that will be released after large storm events.

Name, Area and Types of Waters (Including Wetlands) Subject to Loss:

The applicant requests a permit to impact 2.29 acres of wetlands.

Compensatory Mitigation:

The applicant has stated they believe the wetlands that will be excavated (2.29 acres) will be temporarily impacted during excavation; however, they will reestablish after the project is completed. The applicant has not proposed to mitigate for the impacts to the 2.29 acres of wetlands.

Drawings: MVP-2014-00594-RMM Page 1 through MVP-2014-00594-RMM Page 7

Context of work being done under this contract

Work under this contract will improve an abandoned ditch for local drainage and to create an adequate outlet for North Ottawa Impoundment Structure E. The impoundment provides flood control on a 74 square mile drainage area. Excavated material from construction of the ditch will be hauled to the impoundment and utilized in construction of some interior dikes.

The contractor is cautioned that the disposal site for the excavated material is within a flood control impoundment. The watershed will manipulate the stop logs in the interior dike and gates on the outlet structures to facilitate construction during minor runoff events. However, during larger runoff events, the construction area may be flooded if necessary to meet the flood control goals of the impoundment.

REMARKS	ITEM NO.	SPEC NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
	1	2021.501	Mobilization	LS	1
①	3	2104.521	Salvage Culvert Pipe	LF	40
	4	2105.511	Common Excavation	CY	43000
	5	2211.501	Aggregate Base Class 5 (CV)	Ton	40
②	8	2501.511	15" CS Pipe Culvert	LF	240
②	8	2501.511	18" CS Pipe Culvert	LF	260
②	10	2501.515	15" GS Pipe Apron	EACH	6
②	11	2501.515	18" GS Pipe Apron	EACH	7
③	15	2511.502	Random Riprap Class II	Ton	110
③	16	2511.511	Granular Filter (CV)	Ton	70
④	20	2575.501	Permanent Seeding	ACRE	10.5
	21	2575.502	MN DOT Seed Mix 250	LB	735
⑤	24	2575.502	MN DOT Seed Mix 110	LB	1050
	25	2575.525	Erosion Control Blankets, Category 3	SY	700

(CV) Denotes compacted volume

(P) Denotes plan quantity

- ① Stockpile of salvaged pipe shall be located within the North Ottawa Impoundment.
- ② Includes excavation and backfill
- ③ Excavation and placement is included in price bid.
- ④ Seeding includes soil preparation, sowing of seed, mulch and mulch application, and disk anchoring.
- ⑤ MN DOT Seed Mix 100 to be substituted for fall seeding.

MN DOT STANDARD PLATES	
THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY IN THIS PROJECT	
3040F	CORRUGATED METAL PIPE CULVERT
3123J	METAL APRON FOR C.S. PIPE
3134C	RIPRAP AT CMP OUTLETS
9000D	APPROACHES AND ENTRANCES

BASIS OF ESTIMATED QUANTITIES	
RANDOM RIPRAP	2800# PER CU YD
AGGREGATE MATERIAL	145# PER CU FT
MN DOT SEED MIX 250	70# PER ACRE
MN DOT SEED MIX 110	100# PER ACRE
MN DOT SEED MIX 100	100# PER ACRE

CLEARING AND GRUBBING

CLEARING AND GRUBBING WORK REQUIRED SHALL BE CONSIDERED IN THE PRICE BID FOR OTHER ITEMS WITH NO DIRECT COMPENSATION PROVIDED THEREFORE.

RIPRAP

CLASS III RIPRAP AND GRANULAR FILTER MATERIAL SHALL CONFORM TO SECTION 3601 AND 3733. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 2511. LIMITS OF RANDOM RIPRAP ARE APPROXIMATE ONLY. EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

UTILITIES

THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITY LOCATIONS AND DEPTHS RELEVANT TO THE REQUIRED CONSTRUCTION. EXCAVATION TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCIDENTAL TO STRUCTURE EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. GOPHER STATE ONE CALL 1-800-252-1166. EXISTING UTILITIES TO BE RELOCATED BY OWNER.

TOPSOIL NOTES

EXISTING TOPSOIL FROM COMMON EXCAVATION SHALL BE SALVAGED AND PLACED AS TOP DRESSING ON THE DITCH SLOPES. PAYMENT FOR SUCH WORK TO BE INCLUDED IN PRICE BID FOR COMMON EXCAVATION.

TRAFFIC CONTROL

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" - DATED JANUARY, 2004. ACCESS TO ALL PROPERTIES MUST BE MAINTAINED AT ALL TIMES.

SIGNS

ANY SIGNS WITHIN THE CONSTRUCTION LIMITS SHALL BE SALVAGED AND REINSTALLED. SIGNS SHALL BE STORED TO PREVENT ANY DAMAGE TO THE THEM. PAYMENT FOR SUCH WORK TO BE INCLUDED IN PRICE BID FOR COMMON EXCAVATION.

EXCESS MATERIAL

ALL EXCESS MATERIAL RESULTING FROM THIS CONSTRUCTION SHALL BE DISPOSED OF ON-SITE AS DIRECTED BY THE ENGINEER. THIS IS INCIDENTAL TO COMMON EXCAVATION.

DISTURBED AREAS

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED, SHALL BE SEEDED AND MULCHED.

EROSION CONTROL

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SILT, SOIL AND OTHER SUSPENDED PARTICLES FROM BEING DISCHARGED TO BODIES OF WATER OR DRAINAGE STRUCTURES IN THE CONSTRUCTION VICINITY. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL UNLESS PAID FOR SPECIFICALLY IN THE PLANS.

ROCK CHECK DAM

CLASS III RIPRAP MATERIAL SHALL CONFORM TO SECTION 3601 EXCEPT THAT NO MORE THAN 1% BY MASS SHALL BE SMALLER THAN 1 INCH. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



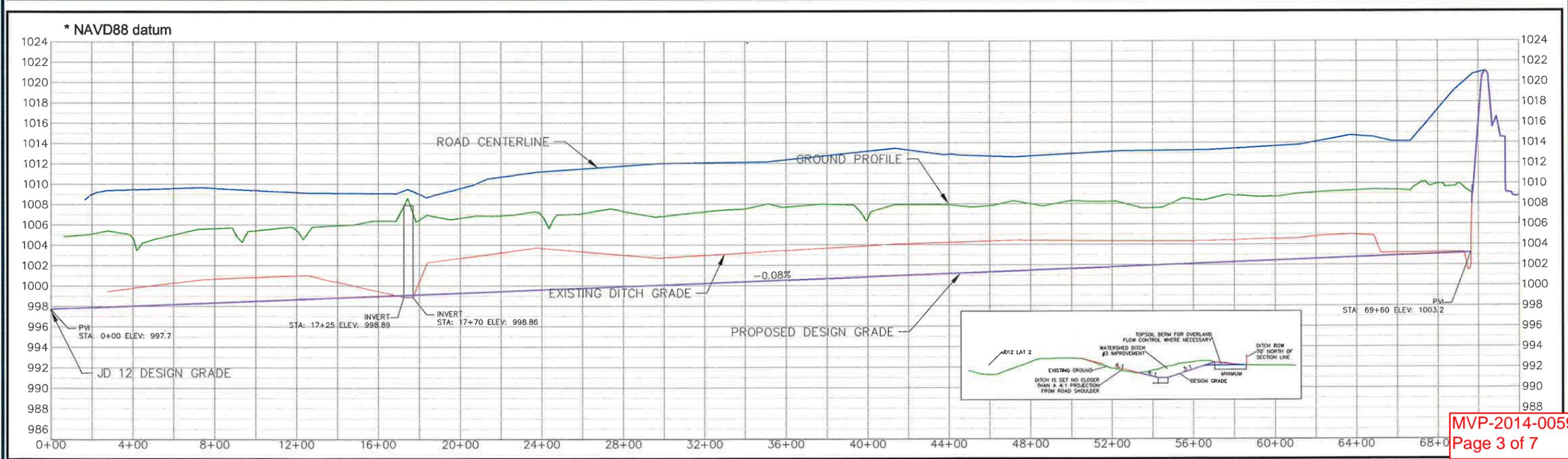
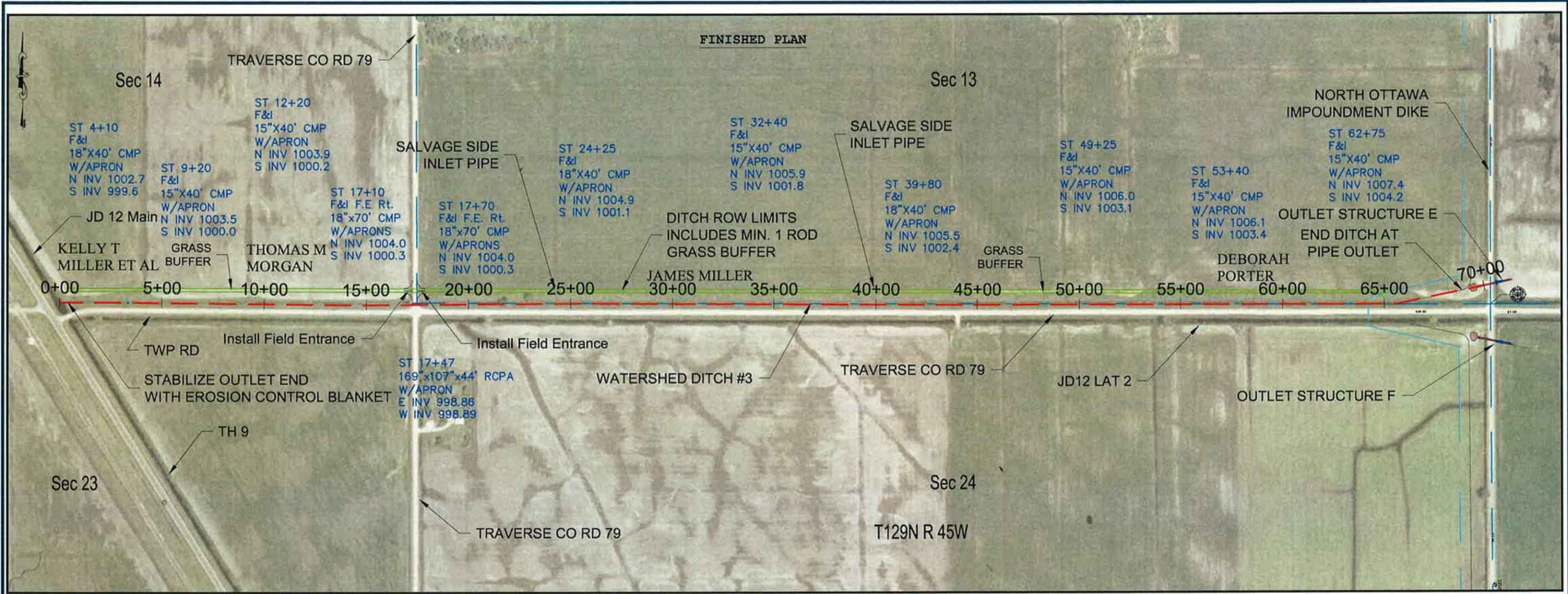
Engineering
Architecture
Surveying
Environmental

DATE: 4-11-13
NO. 1275
CHARLES W. JOHNSON

DATE: SEPT. 2013
SCALE: AS SHOWN
DRAWN BY: D.T.M.
CHECKED BY: C.L.A.
JOB NUMBER: 0402A0034

WATERSHED DITCH #3
BOIS DE SIOUX WATERSHED DISTRICT

Construction Notes & Estimated Quantities



Engineering
Architecture
Surveying
Environmental

WIDSETH SMITH NOLTING

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

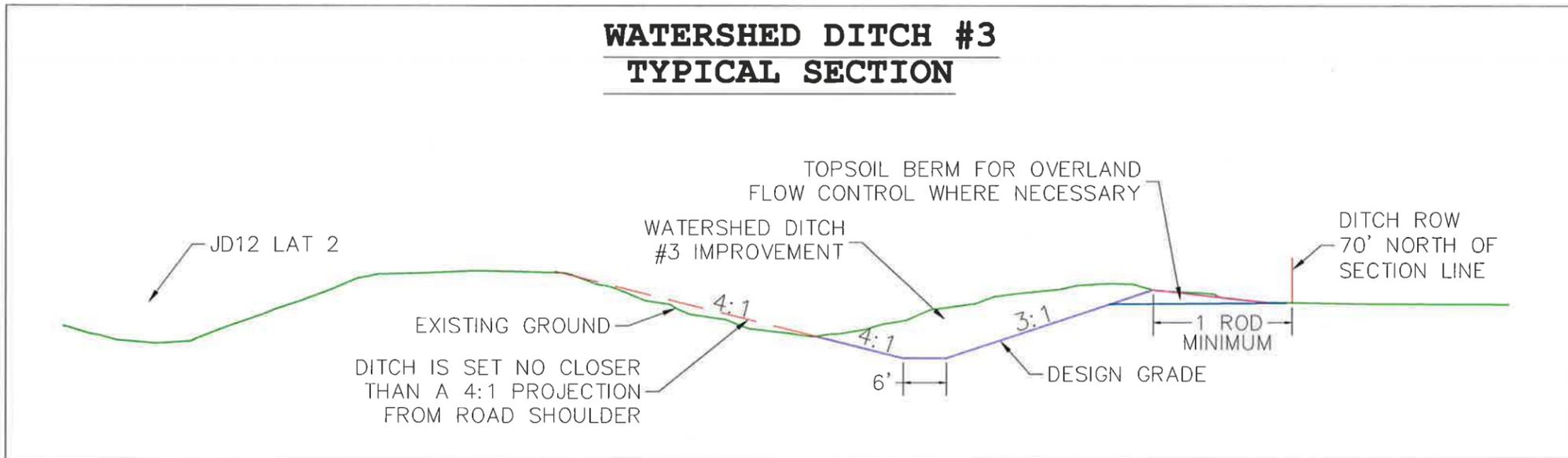
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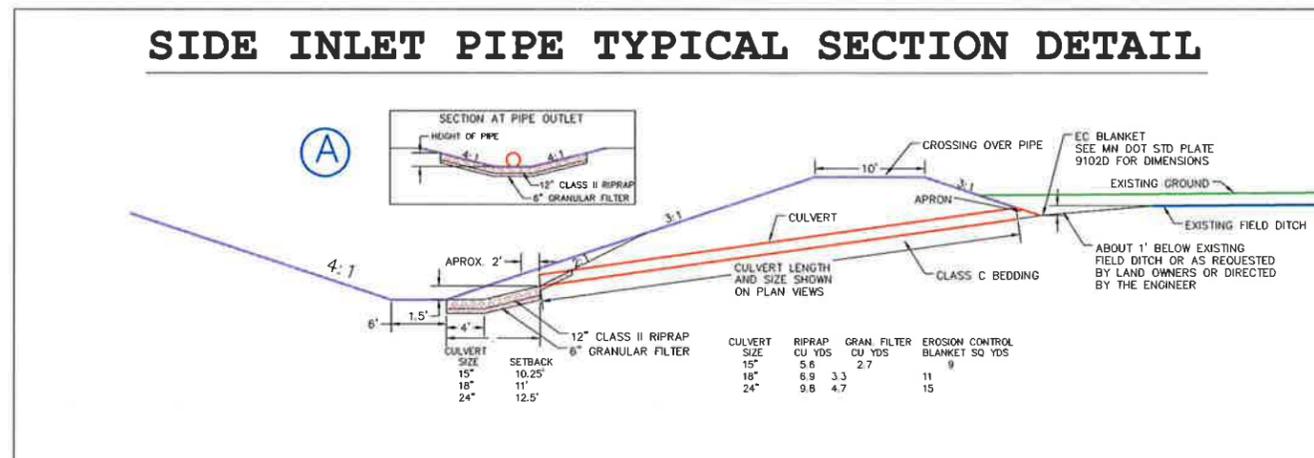
DATE: SEPT. 2015 SCALE: HAVD 86 datum DRAWN BY: DTM CHECKED BY: CLA JOB NUMBER: 402A/034

WATERSHED DITCH #3
BOIS DE SIOUX WATERSHED DISTRICT
PLAN PROFILE

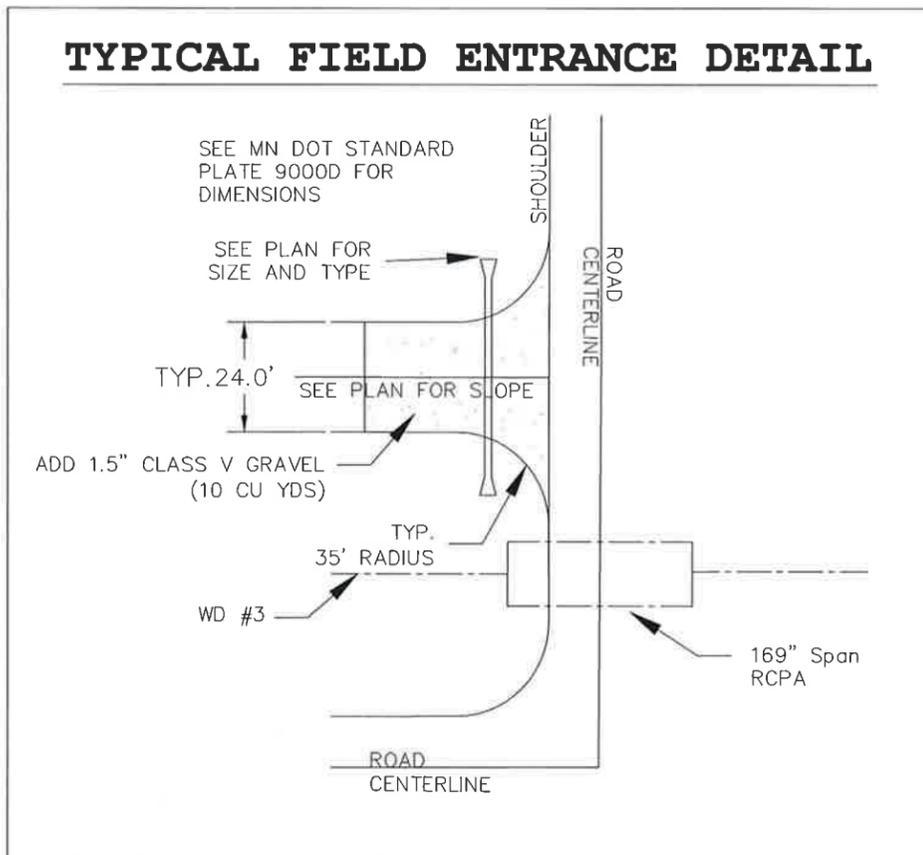
WATERSHED DITCH #3 TYPICAL SECTION



SIDE INLET PIPE TYPICAL SECTION DETAIL



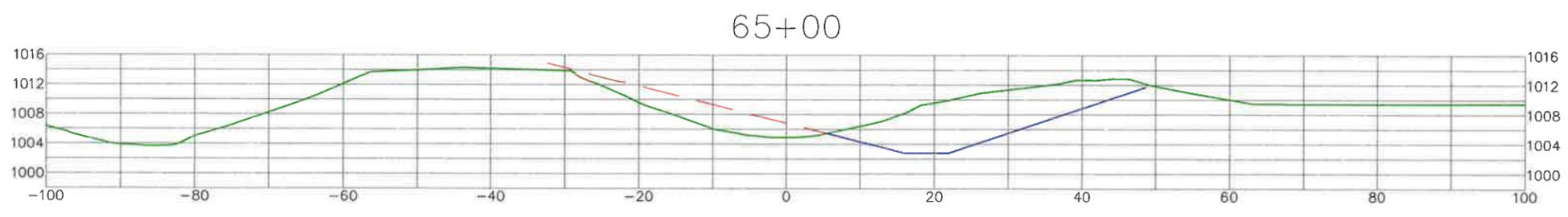
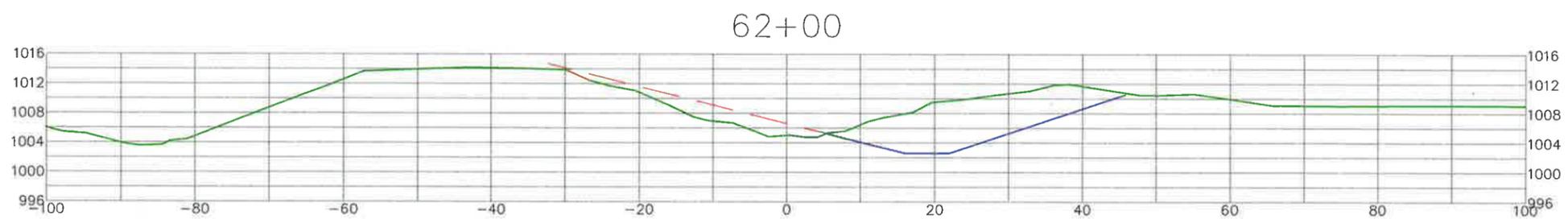
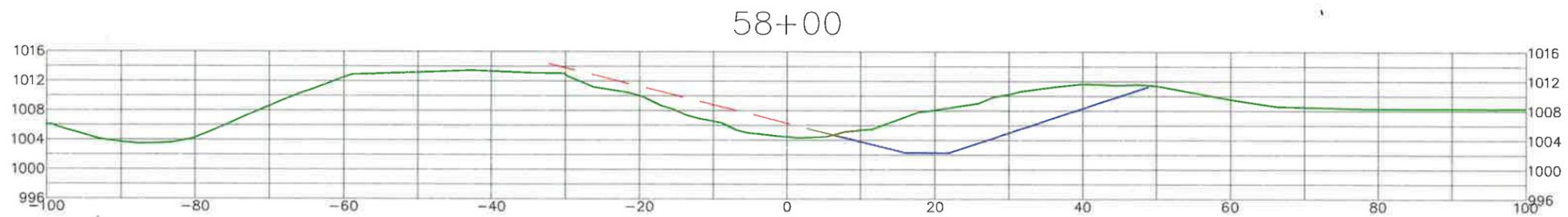
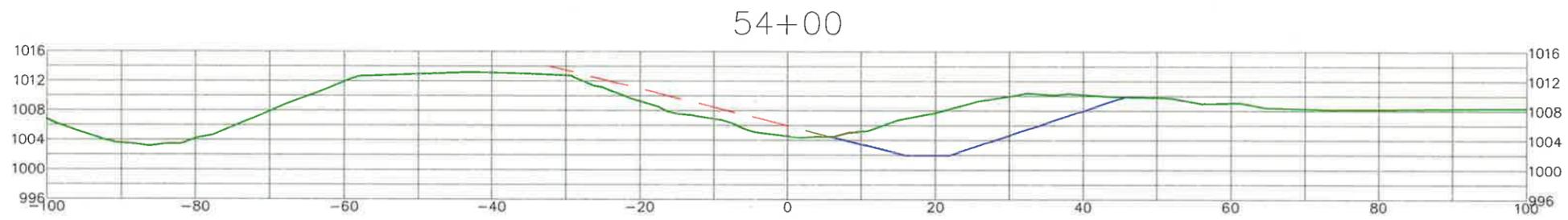
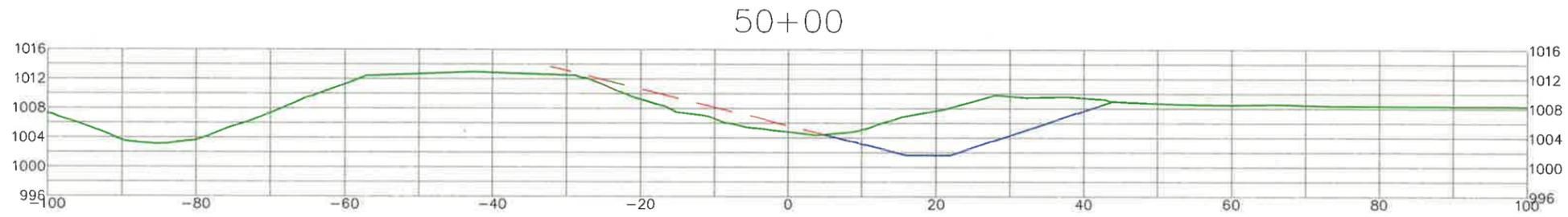
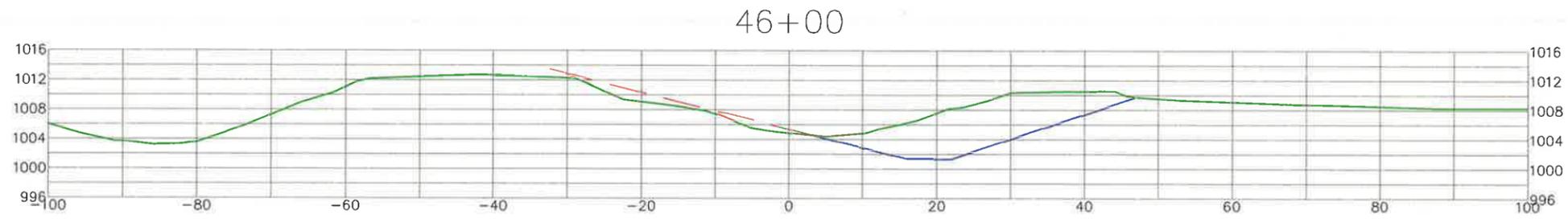
TYPICAL FIELD ENTRANCE DETAIL



WIDSETH SMITH NOLTING
 Engineering Architecture Surveying Environmental
 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.
 CHARLES J. JOHNSON DAY 1-15-13 C. NO. 12775

DATE	REVISION	DESCRIPTION

DATE: SEPT. 2013
 SCALE: AS SHOWN
 DRAWN BY: DTM
 CHECKED BY: CA
 JOB NUMBER: 402A0034
 WATERSHED DITCH #3
 BOIS DE SIOUX WATERSHED DISTRICT
 TYPICAL SECTION



Engineering
Architecture
Surveying
Environmental

**WIDSETH
SMITH
NOLTING**

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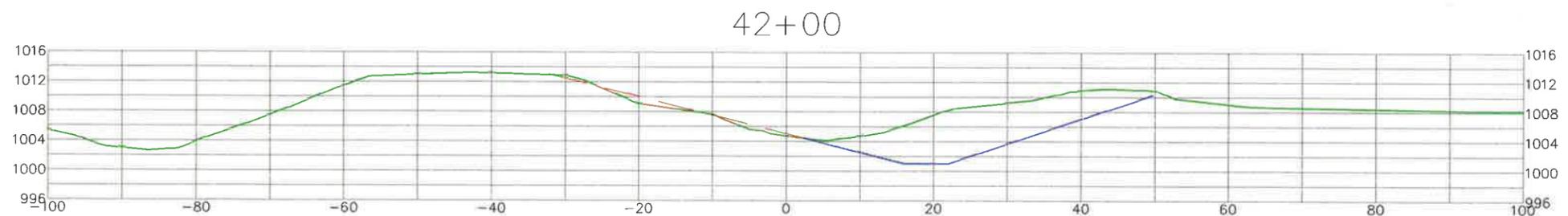
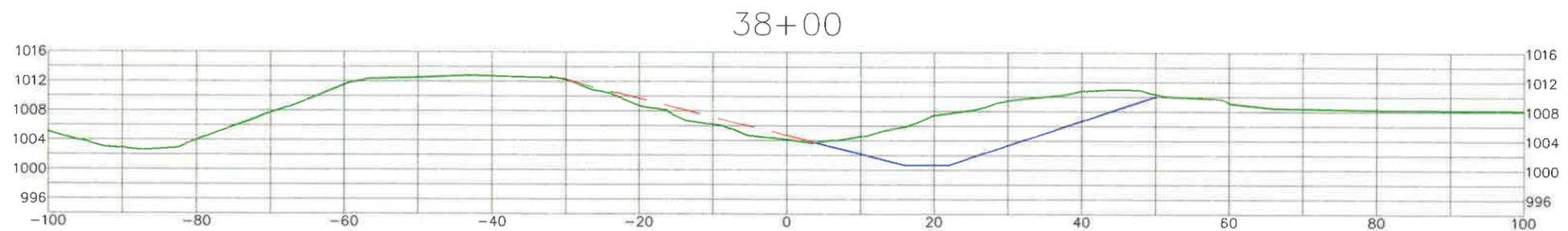
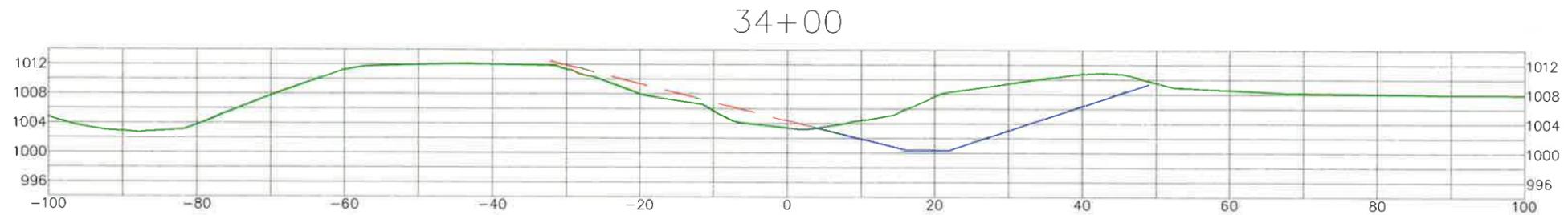
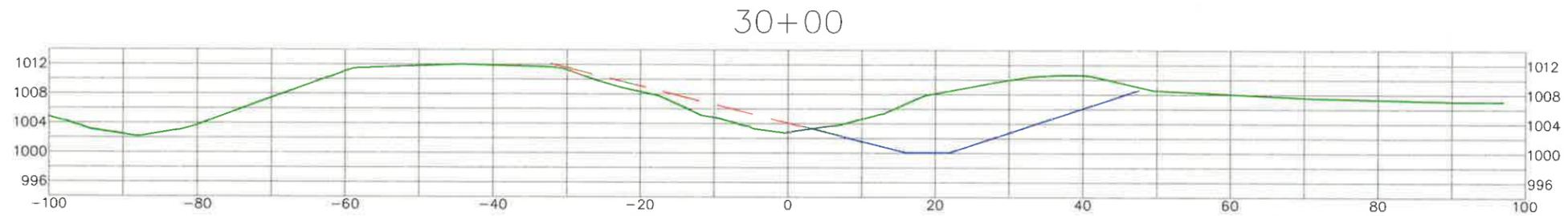
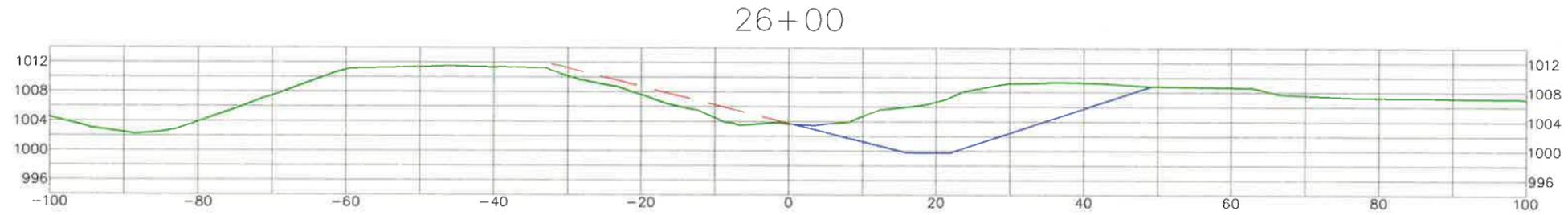
Charles Anderson
CHARLES ANDERSON DWR-12-13 LC. NO. 1279

DATE	BY	REVISIONS DESCRIPTION
JULY 2015		
AS SHOWN		
DRAWN BY: DTM		
CHECKED BY: CLA		
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WATERSHED DITCH #3
BOIS DE SIOUX WATERSHED DISTRICT

CROSS SECTIONS

DATE: JULY 2015
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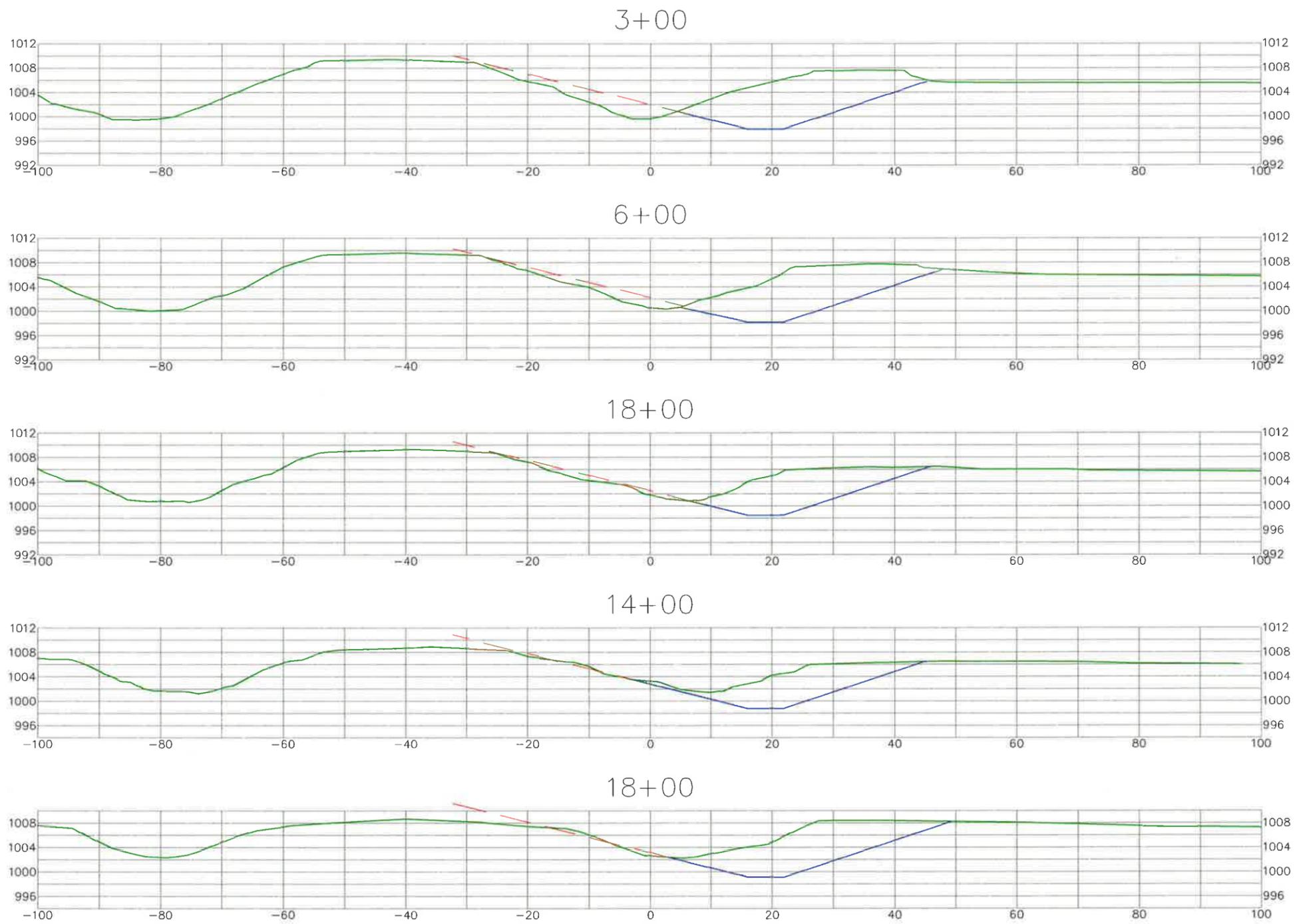


WIDSETH SMITH NOLTING
Engineering Architecture Surveying Environmental
BY: Charles Anderson DATE: 11/17/13 U.C. NO. 12775
I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION OR REPORT THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE	REV#	REVISIONS DESCRIPTION

DATE: JULY 2013
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WATERSHED DITCH #3
BOIS DE SIOUX WATERSHED DISTRICT
CROSS SECTIONS



BY: 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.
Charles L. Anderson
CHARLES L. ANDERSON DAY# - 9417 LIC. NO. 12775

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