

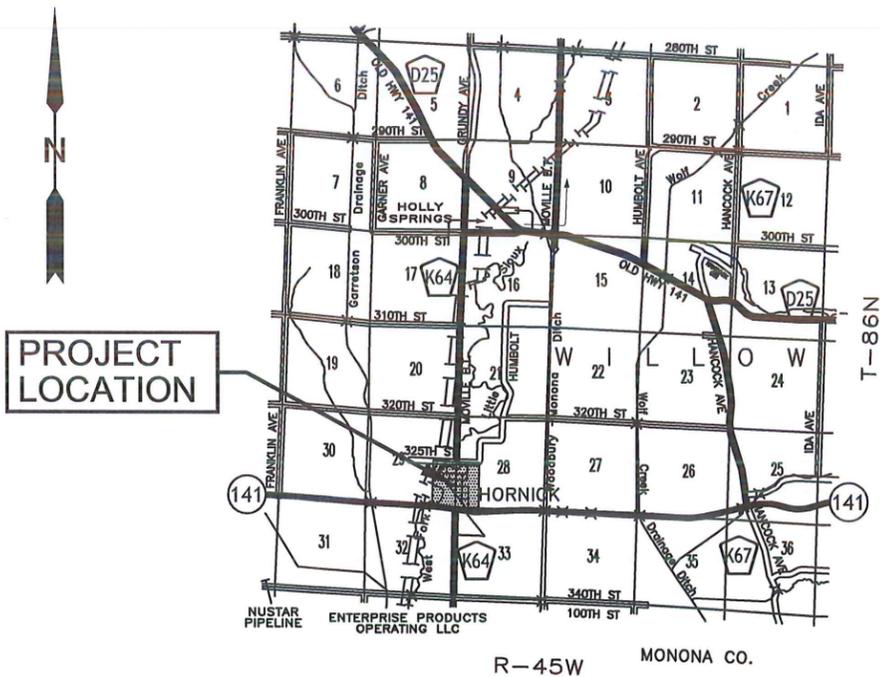


CONSTRUCTION PLAN FOR: PROTECTIVE EARTH BERM HORNICK, IOWA

SCALES: AS NOTED

Current SUDAS shall apply to construction on this project.

INDEX OF SHEETS	
NO.	DESCRIPTION
A1	TITLE SHEET
C1	QUANTITIES AND GENERAL INFORMATION
V1	SITE PLAN
W1-2	CROSS SECTIONS



LOCATION MAP



CALL BEFORE YOU DIG!
1-800-292-8989
www.iowaonecall.com



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

PRELIMINARY
Not For Construction

PATRICK E. MOWW, P.E. #20839 DATE
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2019.

PAGES OR SHEETS COVERED BY THIS SEAL:
ALL EXCEPT Q1

ESTIMATED PROJECT QUANTITIES

100-1A
07-15-97

Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2101-0850001	CLEARING AND GRUBBING	UNIT	500.0	
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	73368.1	
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	14433.0	
4	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	210	
5	2503-3775024	GATE, OUTLET CONTROL, FLAP, 24 IN.	EACH	1	
6	2503-3775060	GATE, OUTLET CONTROL, FLAP, 60 IN.	EACH	4	
7	2528-8445110	TRAFFIC CONTROL	LS	1.00	
8	2528-8445113	FLAGGERS	EACH	8	
9	2533-4980005	MOBILIZATION	LS	1.00	
10	2599-9999009	CULVERT, CORRUGATED METAL ROADWAY PIPE, 24 IN. DIA., RUBBERIZED	LF	112	
11	2599-9999009	CULVERT, CORRUGATED METAL ROADWAY PIPE, 60 IN. DIA., RUBBERIZED	LF	400	
12	2601-2634100	MULCHING	ACRE	18	
13	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	18	
14	2602-0000020	SILT FENCE	LF	25438	
15	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	

GENERAL NOTES

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH ADJACENT PROPERTY OCCUPANTS FOR RESTRAINING LIVESTOCK FROM ENTERING THE RIGHT-OF-WAY DURING CONSTRUCTION.

CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL TILE LINES. BREAKS IN THE TILE LINE DUE TO THE CONTRACTOR'S CARELESSNESS ARE TO BE REPLACED AT CONTRACTOR'S EXPENSE WITHOUT COST TO THE OWNER. ANY TILE LINES BROKEN OR DISTURBED BY CUT LINES WILL BE REPLACED AS DIRECTED BY THE ENGINEER IN CHARGE OF CONSTRUCTION AND AT THE OWNERS EXPENSE.

CONSTRUCTION STAKING WILL BE PROVIDED BY THE OWNER IN ACCORDANCE WITH ARTICLE 1105.06 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING AN INDEPENDENT CHECK OF ALL CONSTRUCTION STAKES PLACED FOR THE PROJECT. THIS INDEPENDENT CHECK SHALL BE SUFFICIENT TO UNDERSTAND THE PLACEMENT AND INTENT OF THE STAKES.

ALL STOCKPILE AREAS, HAUL ROADS, AND AREAS USED FOR EQUIPMENT ON THIS PROJECT REQUIRE SUBSOIL TILLAGE TO AN AVERAGE DEPTH OF 16 TO 20 INCHES PRIOR TO PLACEMENT OF TOPSOIL AND/OR STABILIZING CROP SEEDING. COMPLETE THIS TILLAGE AT 3 FOOT MAXIMUM CENTERS AND AT RIGHT ANGLES TO THE FINISHED SLOPE.

USE TILLAGE EQUIPMENT EQUIPPED WITH AN ARROWHEAD TYPE SHOE THAT WILL PROVIDE LATERAL DISPLACEMENT AND LIMIT THE MOVEMENT OF THE SUBSOIL TO THE SURFACE. OBTAIN THE ENGINEER'S APPROVAL FOR THE EQUIPMENT. THIS WORK IS INCIDENTAL TO OTHER WORK ON THE PROJECT.

FOLLOWING THE SUBSOIL TILLAGE, THE AREA IS TO REMAIN IN A "LOOSENEED" CONDITION. ADDITIONAL COMPACTION OR THE OPERATION OF HEAVY EQUIPMENT, OTHER THAN REQUIRED FOR TOPSOIL PLACEMENT AND SHAPING, WILL NOT BE ALLOWED ON AREAS WHICH HAVE BEEN RECEIVED SUBSOIL TILLAGE.

REV:



LAT. 42.234359°
LONG. -96.104374°

PROP. TWIN 60"x100' CMP
IE IN = 1057.0
IE OUT = 1056.9

LAT. 42.234259°
LONG. -96.094778°

PROP. TWIN 60"x100' CMP
IE IN = 1057.0
IE OUT = 1056.9

HORNICK, CITY OF
190291

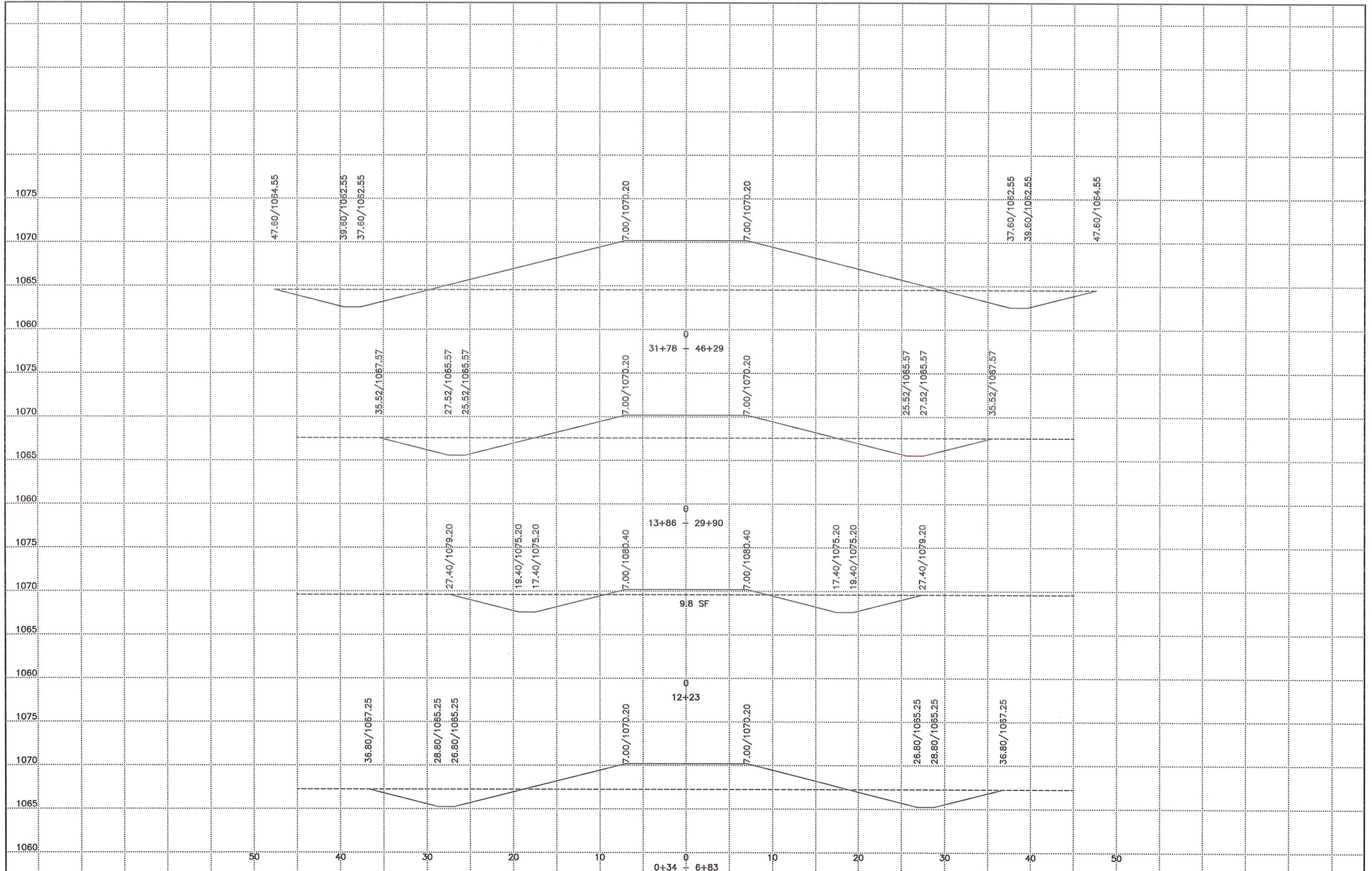
1919C0576D
eff. 9/29/2011

1919C
eff. 9/29/2011

LAT. 42.228105°
LONG. -96.097257°

PROP. 24"x112' CMP
IE IN = 1057.0
IE OUT = 1056.9

LAT. 42.226453°
LONG. -96.092734°



REV:



910 7TH STREET, ONAWA, IA 51040
 F712 423 3131 F712 433 3134 SUNDQUISTENGINEERING.COM

SE PROJECT NO.: I2919

DATE: 09/19

DRAWN BY: TTK

REVIEWED BY: PEM

APPROVED BY: PEM

CLIENT: CITY OF HORNICK, IOWA

DESCRIPTION: CROSS SECTIONS

SHEET WI

