

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
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A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
C Sheets	Quantities and General Information
C.1	Bid Items
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U Sheets	500 Series, Mod.Stds. and Detail Sheets
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V Sheets	Bridge and Culvert Situation Plans
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W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 26	Mainline Cross Sections

REVISIONS	
	TOTAL
	71
PROJECT NUMBER	
32284.01	

JOHNSON COUNTY

Miscellaneous - Trail

Phase 2

Three Prefabricated Bridges and Grading From 0.8 Mi. East of Kent Park Entrance to 0.2 Mi. West of Oak Hill Cemetery

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Jerry Selbher	Primary Signature Block	C.1
G.1	Richard R Nowotny	Survey Signature Block	
V.1	Tim McDermott	Structural Signature Block	V.1

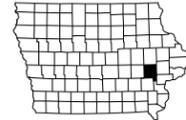
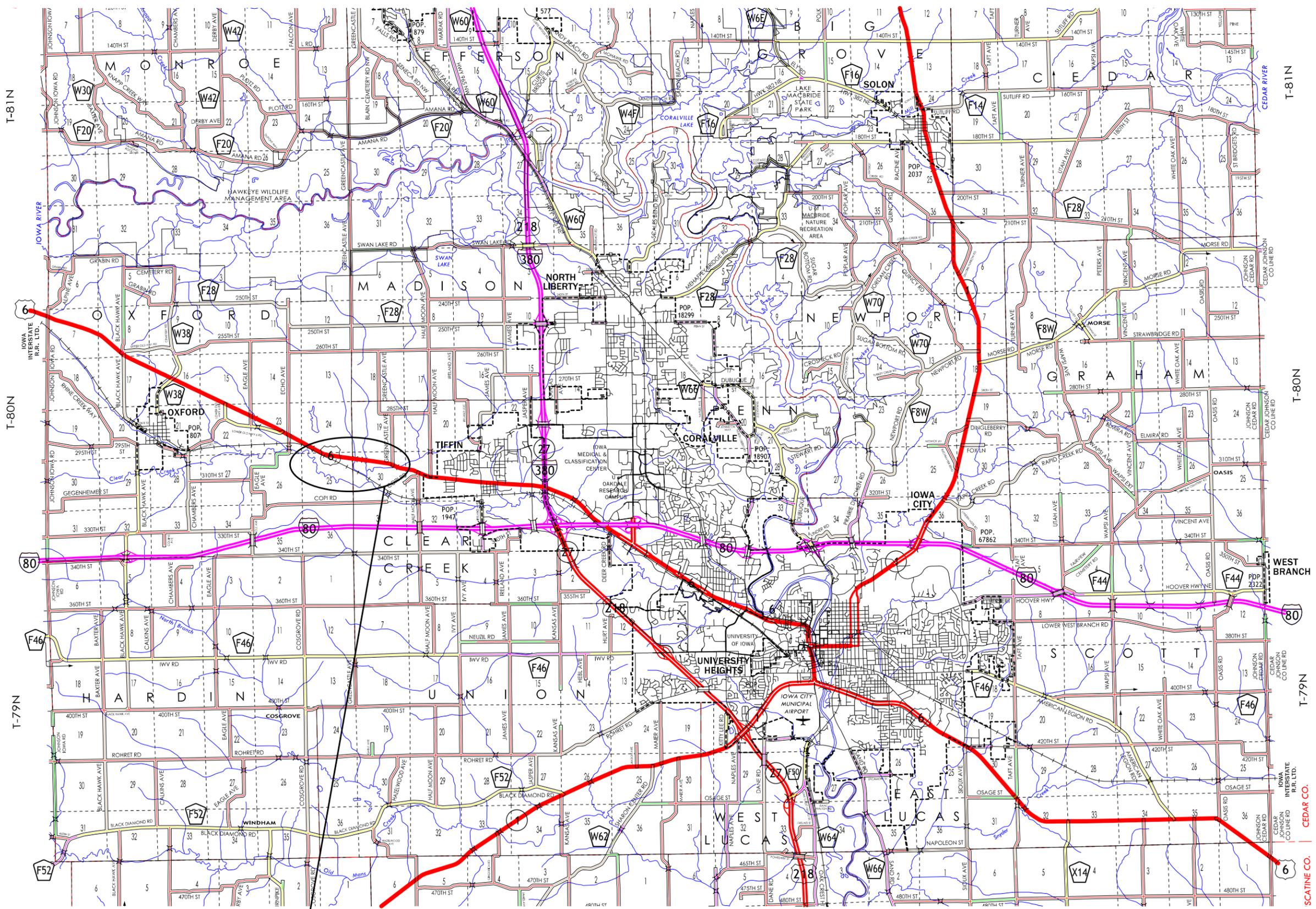
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Jerry A. Selbher 2-19-2026

DATE

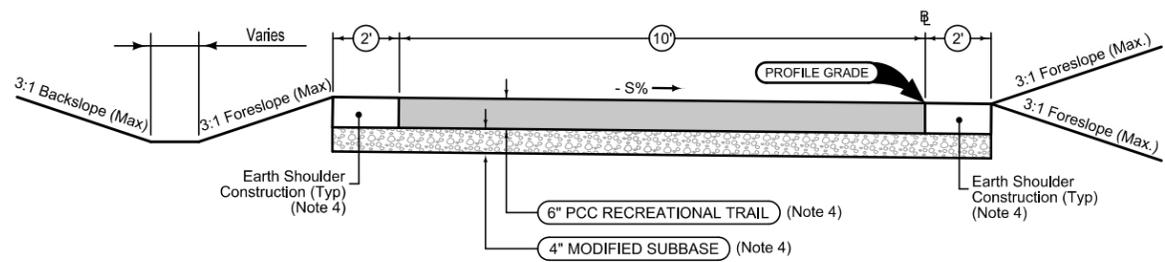
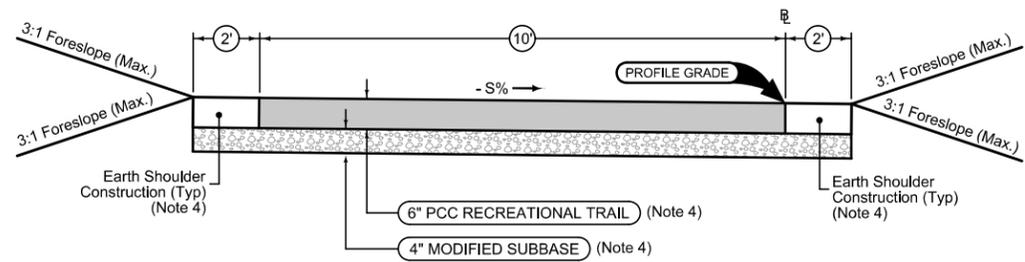
Jerry Allen Selbher, P.E.
LICENSE NUMBER: P21116
MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2027

PAGES OR SHEETS COVERED BY THIS SEAL: A.1-2, B.1, C.1-3, D.1-6, G.2-4, H.1, J.1, M.1-2, RC.1-2, RR.1-4, T.1A-3, U.1, W.1-26



**PHASE 2
PROJECT
LOCATION**





STATION TO STATION		(Note 5) S %
54+50.00	54+75.00	-1.5

STATION TO STATION		(Note 5) S %
54+75.00	55+97.00	-1.5
BRIDGE STRUCTURE 55+97.00 to 56+60.00		
56+60.00	58+00.00	-1.5
64+25.00	65+90.00	-1.5
BRIDGE STRUCTURE 65+90.00 to 66+44.00		
66+44.00	68+25.00	-1.5
95+75.00	98+75.00	+1.5
BRIDGE STRUCTURE 98+75.00 to 99+99.00		
99+99.00	100+10.00	+1.5

- Notes:**
- Normal section shown may be modified appropriately in areas of superelevated curves or other location specifically designated by the Engineer.
 - See Plan and Profile sheets and Cross Sections for additional details of ditches and backslopes.
 - Refer to project plan and cross sections for specific location of foreslope change.
 - Future construction; not constructed with this project. Area backfilled with Embankment-in-place, Contractor furnished.
 - Negative value drains to right, following the - 5% in the typical. Positive value drains to left, opposing the - 5% in the typical.

Clear Creek Trail

BID ITEMS				
Item No.	Item Code	Item	Quantity	Unit
1	2101-0850001	CLEARING AND GRUBBING	0.5	ACRE
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	3370	CY
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	107	CY
4	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE OR UNSTABLE MATERIAL	54	CY
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	750	CY
6	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	3370	CY
7	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	66.3	TON
8	2416-0100024	APRONS, CONCRETE 24 IN. DIA	2	EA
9	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	1	EA
10	2435-0251224	INTAKE, SW-512, 24 IN	2	EA
11	2502-8212034	SUBDRAIN, LONGITUDINAL , (SHOULDER) 4 IN. DIA	250	LF
12	2502-8215806	SUBDRAIN , TILE, 6 IN.	100	LF
13	2505-8221305	SUBDRAIN OUTLET, DR-305	12	EA
14	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	184	LF
15	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	310	LF
16	2519-3300400	FIELD FENCE BRACE PANELS	5	EA
17	2519-4200040	REMOVAL AND REINSTALLATION OF FENCE, FIELD	871	LF
18	2526-8285000	CONSTRUCTION SURVEY	1	LS
19	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	1	LS
20	2528-8445110	TRAFFIC CONTROL	1	LS
21	2528-8445113	FLAGGER	10	EA
22	2533-4980005	MOBILIZATION	1	LS
23	2552-0000300	TRENCH COMPACTION TESTING	1	LS
24	2599-9999005	CONNECTION TO EXISTING WING WALL	1	EA
25	2599-9999009	EASEMENT LIMIT FENCE	1260	LF
26	2601-2634100	MULCHING	1	ACRE
27	2601-2634105	MULCHING, BONDED FIBER MATRIX	1	ACRE
28	2601-2636043	SEEDING AND FERTILIZING (RURAL)	1	ACRE
29	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	32	SQ
30	2601-2642100	STABILIZE CROP - SEED+FERTILIZE	1	ACRE
31	2602-0000020	SILT FENCE	1875	LF
32	2602-0000030	SILT FENCE FOR DITCH CHECKS	579	LF
33	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	1227	LF
34	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	245	LF
35	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	180	LF
36	2602-0010010	MOBILIZATIONS, EROSION CONTROL	12	EA
37	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	3	EA

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Item
1	2101-0850001	CLEARING AND GRUBBING Trees will be felled by Johnson County Conservation.
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED Refer to T-Sheets for information. Includes 408 CY to backfill the area of future trail pavement, subbase, and earth shoulder construction.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW Refer to T-Sheets for information.
4	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE OR UNSTABLE MATERIAL Item includes excavation and waste of unsuitable material discovered during construction of trail and bridge infrastructure. Engineer must authorize this bid item in writing prior to the work. Replacement of the material will paid at the contract unit price for EMBANKMENT IN PLACE, CONTRACTOR FURNISHED.
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD Estimated existing depth is 6 IN. Spread evenly to utilize the full amount stripped. Refer to T-Sheets for information.
6	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL This item is equivalent to item 2102-2625001.
7	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE This item is applied at a depth of 6 IN and includes quatity for an interim and final application.
8	2416-0100024	APRONS, CONCRETE 24 IN. DIA Refer to M-Sheets for information.
9	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN. Refer to M-Sheets for information.
10	2435-0251224	INTAKE, SW-512, 24 IN Refer to M-Sheets for information.
11	2502-8212034	SUBDRAIN, LONGITUDINAL , (SHOULDER) 4 IN. DIA This item is intended to repair existing longitudinal subdrains along US 6. Cost includes coupling devices to connect new pipe to existing pipe.
12	2502-8215806	SUBDRAIN , TILE, 6 IN. This item is intended to repair existing field or ditch tiles located during construction. Cost includes coupling devices to connect new pipe to existing pipe.
13	2505-8221305	SUBDRAIN OUTLET, DR-305 This item is intended to repair existing subdrain outlets along US6. Cost includes coupling devices to connect new pipe to existing and new pipe.
14	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN. Refer to M-Sheets for information.
15	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN. Refer to M-Sheets for information.
16	2519-3300400	FIELD FENCE BRACE PANELS This item is replace any field fence brace panels encountered during reinstallation of field fence.
17	2519-4200040	REMOVAL AND REINSTALLATION OF FENCE, FIELD Limits match the limits of grading and is intended to allow space for grading. Existing fence is in poor condition and new field fence is anticipated.
18	2526-8285000	CONSTRUCTION SURVEY Applies to all bid items requiring construction survey.

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Item
19	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION --
20	2528-8445110	TRAFFIC CONTROL Refer to J-Sheets for information.
21	2528-8445113	FLAGGER Refer to J-Sheets for information.
22	2533-4980005	MOBILIZATION --
23	2552-0000300	TRENCH COMPACTION TESTING --
24	2599-9999005	CONNECTION TO EXISTING WING WALL Description: This item is to connect new storm sewer to the existing wall. Refer to SRP SW-211 and M-Sheets for additional information. Materials: Apply Articles 4149.04 and 4149.05. Construction: Apply Articles 2435.03, F, 1, 435.03, F, 2, and 435.03, F, 4. Method of Measurement: Each connection to existing wall will be counted. Basis of Payment: Payment is full compensation for excavation, coring into the existing wall, removal of existing fillet, pipe connections, replacement of fillet, grout, and backfill.
25	2599-9999009	EASEMENT LIMIT FENCE Description: This item is intended to be a temporary fence to prevent accidental crossing onto private property. Materials: The fence shall be of suitable material to prevent accidental crossing onto private property. Construction: Furnish and erect fence along the temporary easement line or the right of way line, whichever is further from the trail. Method of Measurement: This item will be measured in linear feet constructed. Basis of Payment: This item will be paid for per linear foot and payment is full compensation for furnishing all material and for construction of fence as provided herein, including clean up after the work is complete.
26	2601-2634100	MULCHING --
27	2601-2634105	MULCHING, BONDED FIBER MATRIX --
28	2601-2636043	SEEDING AND FERTILIZING (RURAL) --
29	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT --
30	2601-2642100	STABILIZE CROP - SEED+FERTILIZE Use rural cover seed mix.
31	2602-0000020	SILT FENCE This item includes estimated locations for placement of Silt Fence to address possible erosion during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Item
32	2602-0000030	<p>SILT FENCE FOR DITCH CHECKS</p> <p>This item includes estimated locations for placement of Silt Fence for Ditch Checks to address possible erosion during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.</p>
33	2602-0000071	<p>REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS</p> <p>This item is included for silt fence and silt fence for ditch check removal required for staging reasons, for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth. Quantity is 50% of Silt Fence and Silt Fence for Ditch Checks.</p>
34	2602-0000101	<p>MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS</p> <p>This item is included for cleanout and repair of the silt fence and silt fence for ditch checks during the project. Quantity is 10% of Silt Fence and Silt Fence for Ditch Checks.</p>
35	2602-0000150	<p>STABILIZED CONSTRUCTION ENTRANCE, EC-303</p> <p>This item includes 6 entrances (1 per side of each bridge) 30 FT in length.</p>
36	2602-0010010	<p>MOBILIZATIONS, EROSION CONTROL</p> <p>This item includes 2 mobilizations on each side of each bridge. Per DOT 2602.05 bid price shall be a mandatory \$600 per each mobilization.</p>
37	2602-0010020	<p>MOBILIZATIONS, EMERGENCY EROSION CONTROL</p> <p>This item includes 1 mobilization per bridge. Per DOT 2602.05 bid price shall be a mandatory \$1200 per each mobilization.</p>

SURVEY SYMBOLS

	PROPERTY CORNER(S), FOUND (as noted)		
	PROPERTY CORNERS SET 5/8" REBAR W/YELLOW, PLASTIC LS CAP NO. 8165 UNLESS NOTED OTHERWISE		
	SET CUT "X" IN CONCRETE UNLESS NOTED OTHERWISE		
	PROPERTY &/or BOUNDARY LINES		
	CONGRESSIONAL SECTION LINES		
	RIGHT-OF-WAY LINES		
	CENTER LINES		
	LOT LINES, PLATTED OR BY DEED		
	EXISTING EASEMENT LINES, PURPOSE NOTED		
	STORM SEWER LINES		
	SANITARY SEWER LINES		
	HOT & CHILLED WATER LINES		
	WATER MAIN WITH SIZE		
	WATER MAIN LINES		
	TELECOMMUNICATION LINES		
	ELECTRICAL LINES UNDERGROUND		
	ELECTRICAL LINES OVERHEAD		
	ELECTRICAL LINES		
	FIBER OPTIC LINES		
	GAS LINES		
	WALL (TYPE NOTE)		
	FENCE		
	FENCE CORNER		TELEPHONE MANHOLE
	FENCE LINE SHOT		FUEL MANHOLE
	EVERGREEN TREE WITH SIZE		TRAFFIC CONTROL BOX
	BUSH LINE		TRAFFIC LIGHT BASE
	DECIDUOUS TREE WITH SIZE		PAY PHONE
	RECORDED DIMENSIONS		BOLLARD
	MEASURED DIMENSIONS		VERTICAL HAND RAIL POST
	HYDRANT METER		SOIL BORING LOCATION
	FIRE HYDRANT		BENCHMARK LOCATION
	WATER VALVE		
	SIGN		
	UTILITY CLEANOUT		
	SANITARY MANHOLE		
	STORM MANHOLE		
	STORM GRATE INLET		
	STORM CURB INLET		
	STORM DRAINAGE MANHOLE		
	MANHOLE (UNKNOWN)		
	MONITORING WELL		
	TELEPHONE CAN		
	GAS SHUTOFF		
	GAS METER		
	AIR CONDITIONER		
	GUY WIRE		
	POWER POLE WITH TRANSFORMER		
	LIGHT POLE		
	POWER POLE WITH LIGHT		
	POWER POLE		
	ELECTRIC TRANSFORMER/PAD		
	ELECTRIC MANHOLE		

UTILITY LEGEND

(BEP01)BUCKEYE PARTNERS, LP
David Jones
6109044409
dajones@buckeye.com

(LCR)LINN COUNTY REC
Johna Nunemaker
3193771587
nunemaker@linncountyrec.com

(M42G)MIDAMER-GAS
Carson Hemphill
3193414461
crhemphill@midamerican.com

(MAF5)MIDAMER-FIBER
Telecom On Call
5152812313
telecomoncall@midamerican.com

(SSC)SOUTH SLOPE TELEPHONE
Brian Frese
3196655326
brian@southslope.com

(T13)MEDIACOM IOWA CITY
Carl Norton
3195946201
cnorton@mediacomcc.com

(TIF)TIFFIN, CITY OF
Brett Mehmen
3196311698
bbtiffin@southslope.net

(UPN)UNITE PRIVATE NETWORKS, LLC
Joe Kilzer
8164253556
upngis@upnfiber.com

(WINIA)WINDSTREAM COMMUNICATIONS
LOCATE DESK
8002891901
LOCATE.DESK@WINDSTREAM.COM

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities
SHADING		Design Color No.	Transparency
Pink, Dark	(13)		Temporary Pavement Shading
Yellow	(4)		Proposed Pavement Shading
Orange	(6)		Proposed Granular Shading
Orange	(70)		Proposed Shoulder Granular Shading
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading
Brown, Light	(236)		Grading Shading
Orange, Light	(134)		Proposed Granular Entrance Shading
Yellow	(220)		Proposed Paved Entrance Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading
Red	(3)		Proposed Structure Shading
Red	(3)		Delineates Restricted Areas

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(10)		Existing Ground Line Profile
Blue	(1)		Proposed Profile and Annotation
Magenta	(5)		Existing Utilities
Blue, Light	(230)		Proposed Ditch Grades, Left
Black	(0)		Proposed Ditch Grades, Median
Rust	(14)		Proposed Ditch Grades, Right

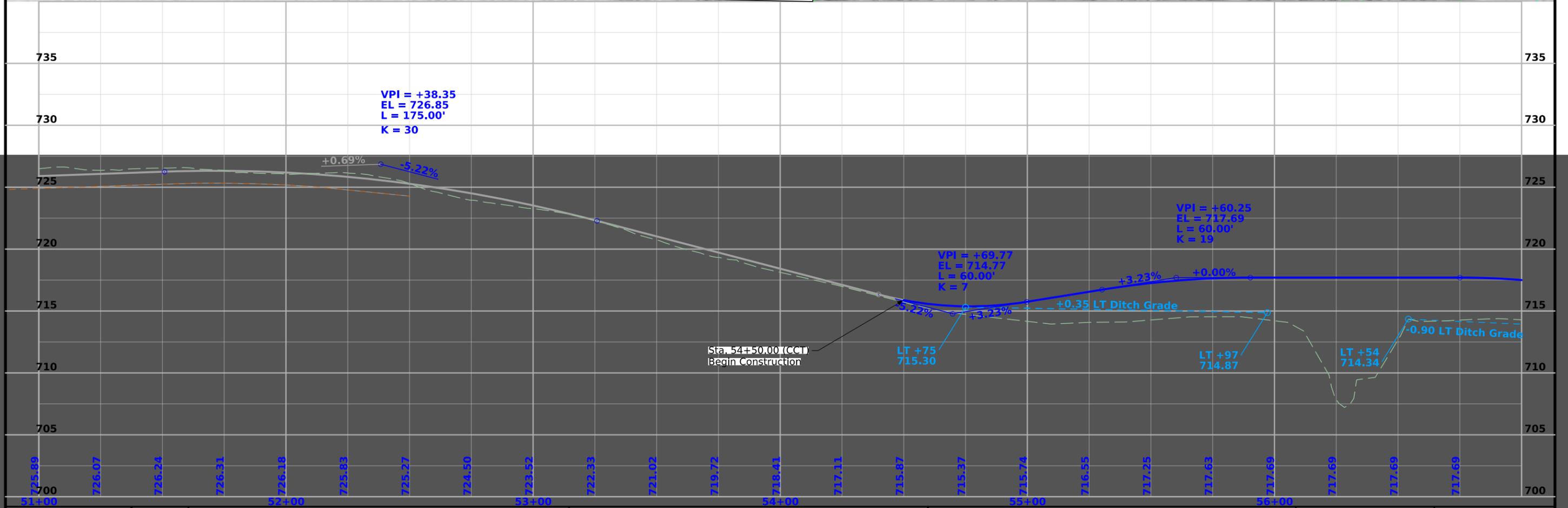
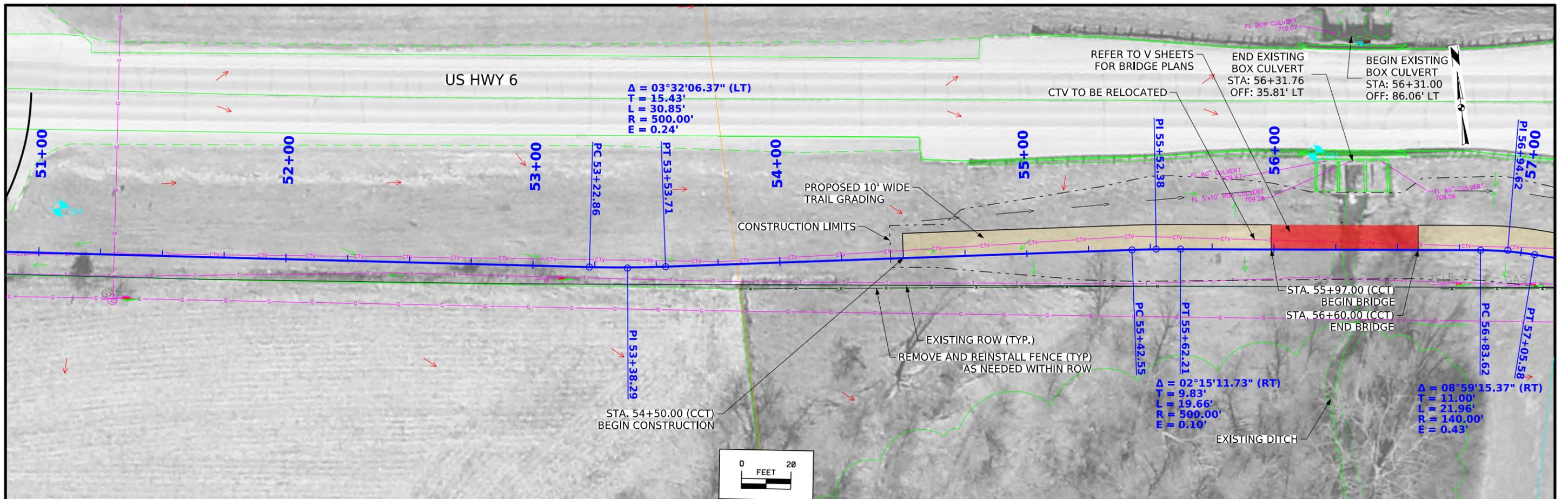
Reference Point	
	Survey Line
	Station
	Section Corner
	Ground Line Intercept
	Saw Cut
	Guardrail
	Trench Drain
	HighTension Cable Guardrail
	Sheet Pile
	Pavement Removal
	Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

	Proposed Right-of-Way Symbol
	Proposed Right-of-Way Line
	Existing Right of Way
	Existing and Proposed Right-of-Way
	Easement and Existing Right-of-Way
	Easement (Temporary) Symbol
	Easement (Temporary) Line
	Easement
	C/A Access Control
	Property Line Symbol
	Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D)



US HWY 6

$\Delta = 08^{\circ}59'15.37''$ (LT)
 $T = 11.00'$
 $L = 21.96'$
 $R = 140.00'$
 $E = 0.43'$

