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TYPICAL SECTIONS AND DETAILS
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

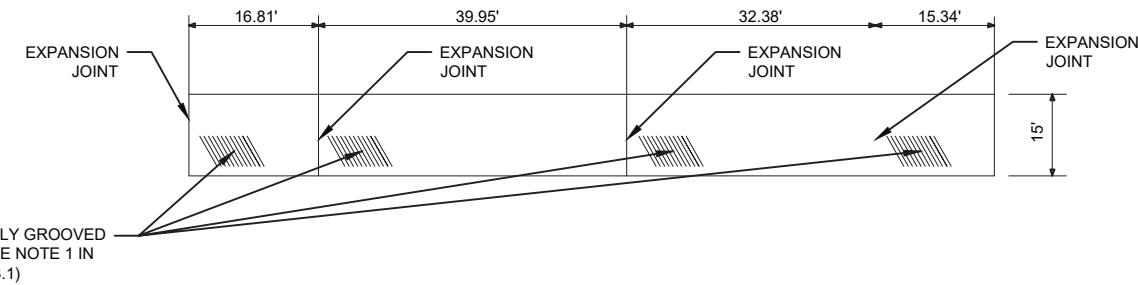
DATE OF ISSUANCE
JUNE 16, 2026

NO	REVISION	DATE
1	PRELIMINARY	02/17/2026
2	CHECK	04/07/2026
3	FINAL	06/16/2026

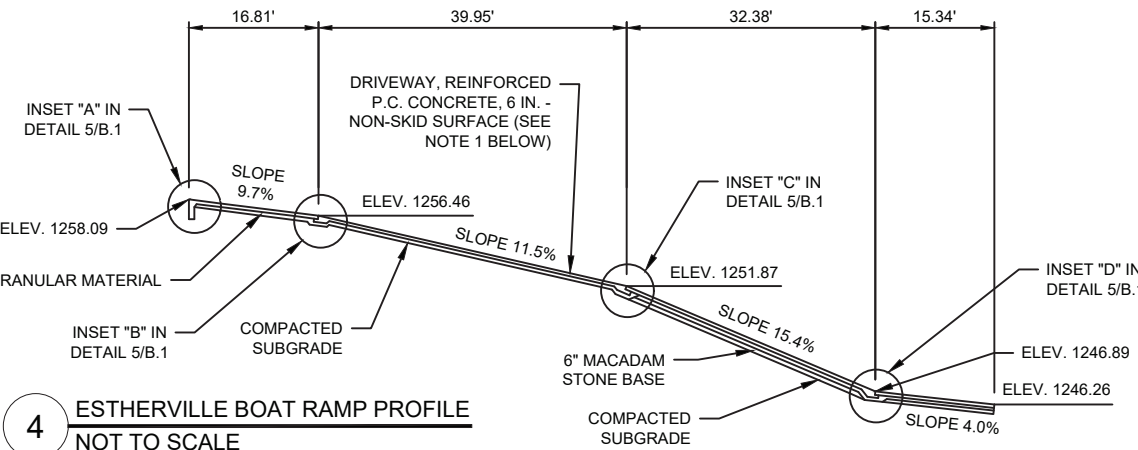
SURVEY	JACOBSON WESTGARD ASSOC.
DRAWN	LI & MF
DESIGNED	MM & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203/228955 203725001
SHEET NUMBER	B.1



IOWA DOT PROJECT #: NRT-2417(610)--9G-32



2 ESTHERVILLE BOAT RAMP PLAN
NOT TO SCALE



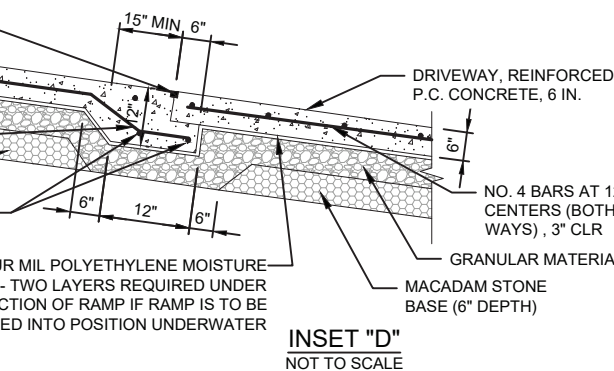
- NOTE:
1. CONCRETE RAMP FINISH SHALL BE GROOVED DIAGONALLY TO FORM A NON-SKID SURFACE - MIN. 1" DEPTH, MAX. 2-1/2" BETWEEN GROOVES AND/OR AS DIRECTED BY THE INSPECTOR. ON RIVER RAMP GROOVES SHALL SLOPE TOWARDS THE DOWNSTREAM SIDE.
 2. SEE SHEET B.2 FOR THE GROOVING DEVICE DETAIL.

BOAT RAMP GENERAL NOTES:

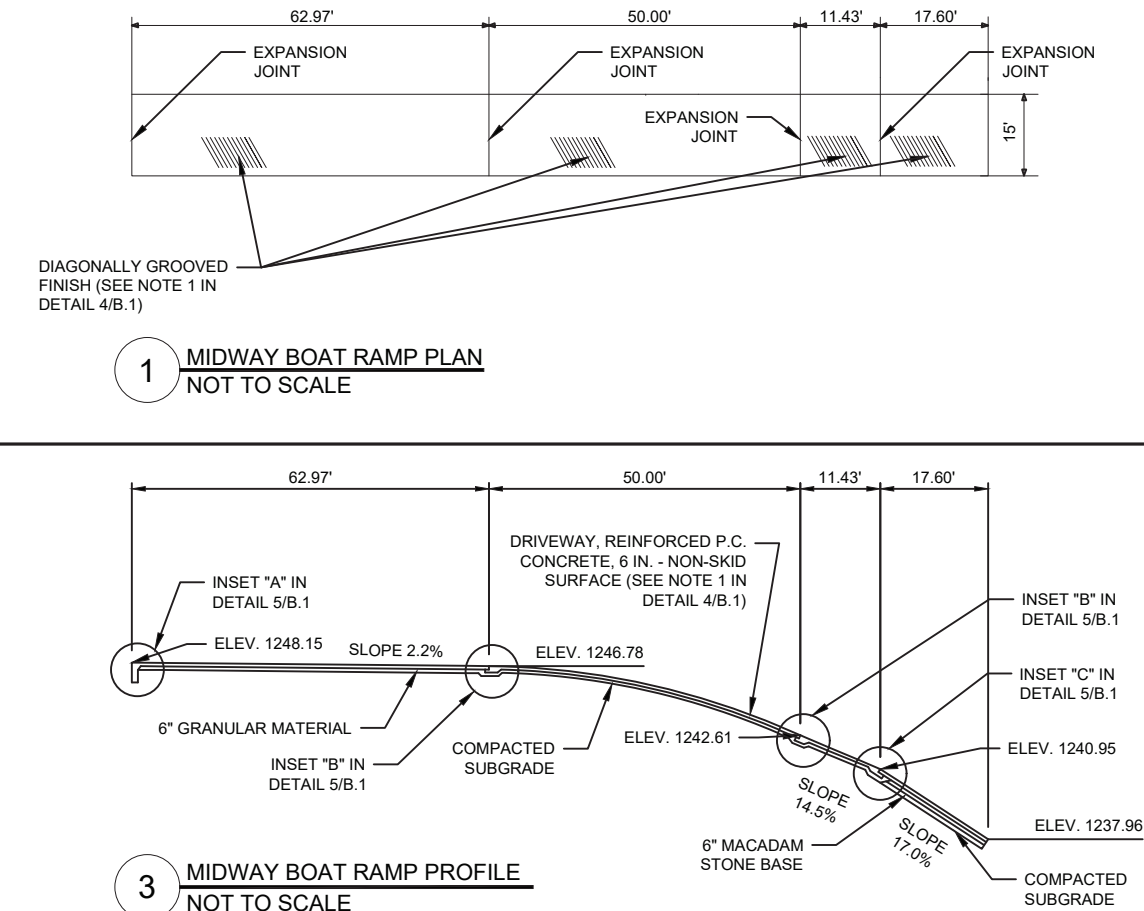
1. ALL CONCRETE SHALL CONFORM TO CLASS "C" MIX IOWA DOT SECTION 2301.
2. ALL EXPOSED EDGES OF CONCRETE TO BE BEVELED WITH 3/4" CHAMFER STRIPS OR 1/2" RADIUS TOOLED EDGE.
3. THE TOP 1" OF ALL EXPANSION JOINTS TO RECEIVE A SILICONE BASE POURING TYPE SEALER.
4. EXPANSION JOINTS SHALL BE 3/4" PREFORMED RESILIENT FILLER MATERIAL.
5. REINFORCING STEEL SHALL BE GRADE 40 - DEFORMED.
6. CONCRETE RAMP FINISH SHALL BE GROOVED DIAGONALLY TO FORM A NON-SKID SURFACE.
7. PROPOSED GRADES BELOW WATER SURFACE ARE BASED ON AN ASSUMED GRADE BELOW WATER SURFACE. CONTRACTOR TO FIELD VERIFY.
8. GRANULAR MATERIAL SHALL BE IN ACCORDANCE WITH IOWA DOT SECTION 4120.
9. THE REVETMENT, CLASS "E" THAT WILL BE PLACED NEXT TO THE BOAT RAMPS AND SIDEWALK SHALL BE ARRANGED TO PROVIDE A FAIRLY LEVEL SURFACE FOR BOATERS.
10. THE PORTION OF THE RAMP TO BE PLACED BELOW THE WATERLINE MAY BE FORMED ABOVE THE WATERLINE AND CAREFULLY PUSHED INTO POSITION UNDERWATER TO THE LOCATION AND ELEVATIONS AS SHOWN ON THE PLAN AND AS APPROVED BY THE INSPECTOR. THE REMAINING SECTIONS OF THE RAMP SHALL BE FORMED AND POURED IN PLACE.

INSTALLATION OF CONCRETE BOAT RAMP UNDERWATER:

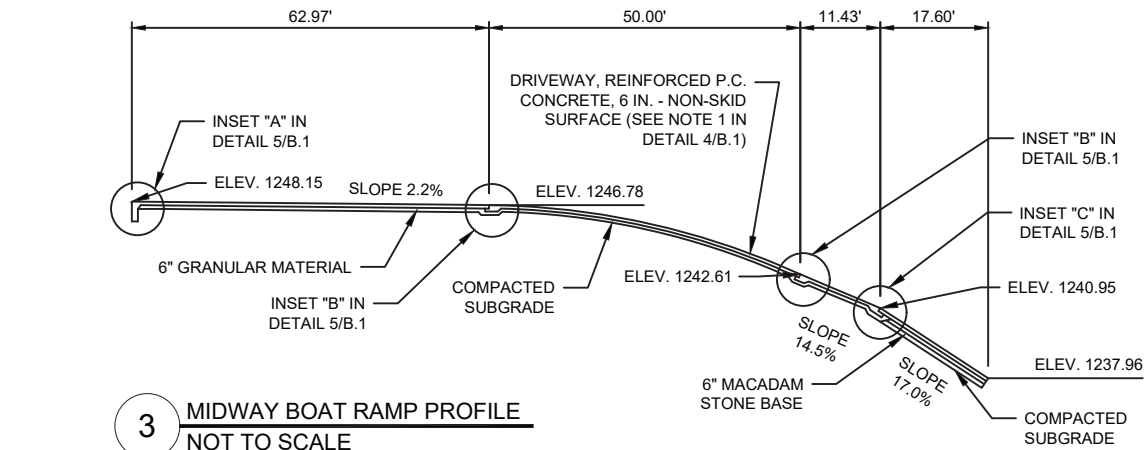
1. PLACE AND EMBED REVETMENT, CLASS "E" (RIPRAP) IN WATER SO THAT THE TOP OF ROCK MATCHES GRADE OF THE CONCRETE SLAB. PILES OF LOOSE RIPRAP ADJACENT TO BOAT RAMP OR SIDEWALK ARE NOT ALLOWED. PLACE GRADE STAKES AND STRING LINE ON POSTS IN WATER TO SET GRADE.
2. PLACE SIX INCHES OF CHOKE STONE (PAID AS MACADAM STONE) (3/4 INCH) ON TOP OF RIPRAP AND FILL VOIDS. AFTER FILLING VOIDS THERE SHOULD BE A MINIMUM OF TWO INCHES OF MACADAM STONE ON TOP OF RIPRAP, AND BASE SHOULD BE TO FINAL GRADE.
3. BUILD TEMPORARY FILL TO GRADE FOR POURING THE UNDERWATER PORTION OF THE RAMP.
4. PLACE SIX INCHES OF GRANULAR MATERIAL (3/4 INCH) ON TOP OF TEMPORARY FILL AND THEN PLACE TWO LAYERS OF FOUR MIL POLYETHYLENE ON TOP.
5. POUR CONCRETE (4,000 PSI) FOR SLAB IN PLACE ON TEMPORARY FILL, WITH TWO LAYERS OF FOUR MIL POLYETHYLENE ON TOP OF SUBGRADE. TAKE A MINIMUM OF TWO TEST CYLINDERS FOR TESTING.
6. LET POURED RAMP SECTION CURE FOR A MINIMUM OF TWO WEEKS, UNLESS SEVEN-DAY TEST RESULTS EXCEED 3,200 PSI.
7. TEST ONE CYLINDER AT SEVEN DAYS FOR COMPRESSIVE STRENGTH; IF GREATER THAN 3,200 PSI THEN RAMP SECTION CAN BE PUSHED INTO PLACE. SECOND CYLINDER WOULD BE USED FOR TEST AT FOURTEEN DAYS IF FIRST CYLINDER DID NOT MEET 3,200 PSI.
8. BEND EXPOSED REBARS AT TOP END OF UNDERWATER SLAB. PLACE WOOD TIMBERS UP AGAINST END OF SECTION.
9. USE DOZER, LOADER OR LARGE BACKHOE TO PUSH SECTION INTO PLACE. PLACEMENT SHALL BE WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.2-FOOT OF PROPOSED ALIGNMENT AND GRADE.
10. CHECK FINAL LOCATION AND GRADE AGAINST STRING LINE AND GRADE STAKES.
11. IF SLAB IS NOT TO PROPER GRADE IT CAN BE REMOVED BY PLACING A CABLE AROUND SLAB AND PULLING IT OUT OF THE WATER WITH A DOZER. GRADE CAN THEN BE CORRECTED AND SLAB RE-PUSHED. REMOVAL AND CORRECTION OF SLAB IS CONSIDERED INCIDENTAL TO DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN.
12. IF PAVEMENT CRACKING OCCURS DURING CONSTRUCTION, REPLACE CRACKED PANELS. ANY REPLACEMENT WORK IS CONSIDERED INCIDENTAL TO DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN.
13. ALTERNATIVE INSTALLATION METHODS OF CONCRETE BOAT RAMP UNDERWATER MAY BE ALLOWED SUBJECT TO ENGINEER APPROVAL.



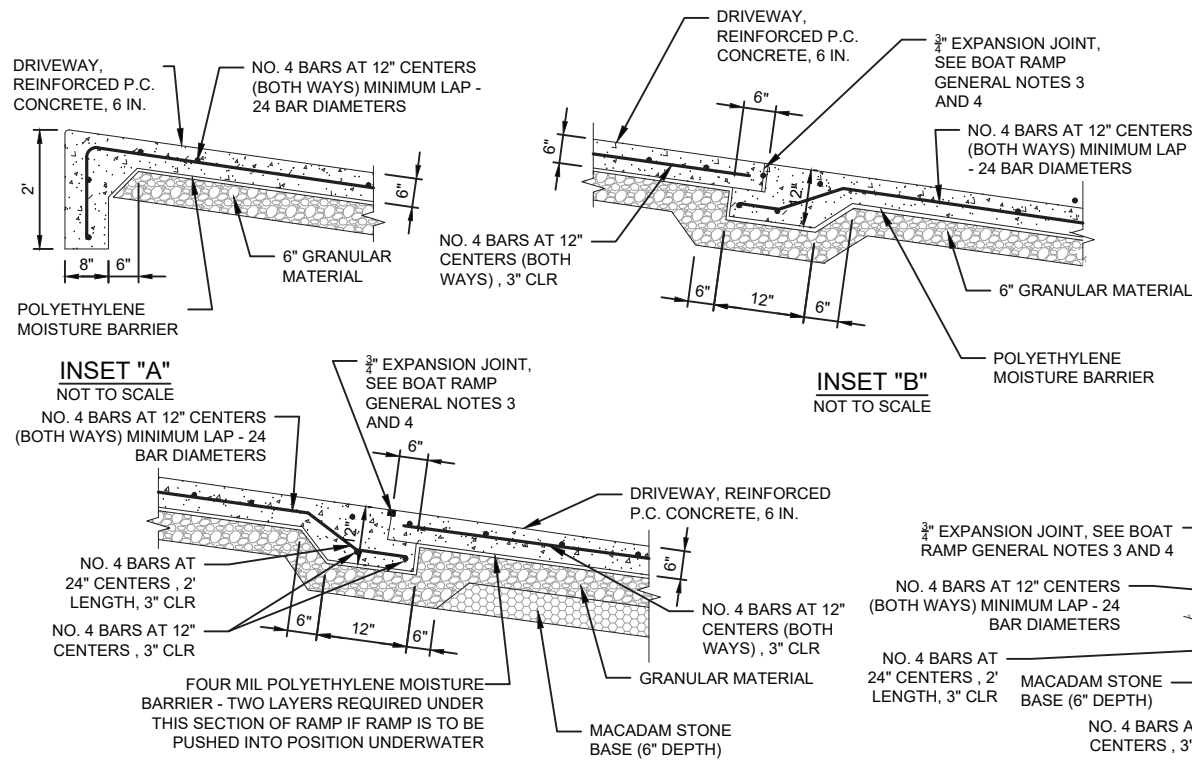
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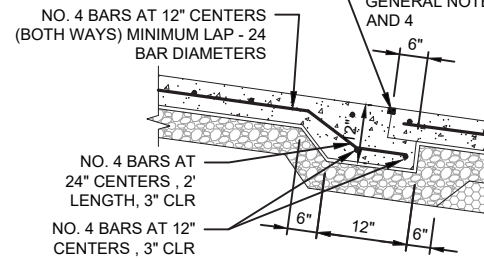
1 MIDWAY BOAT RAMP PLAN
NOT TO SCALE



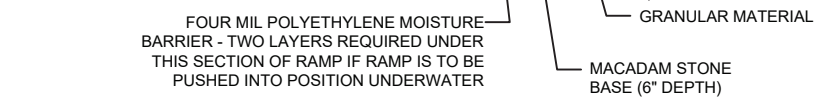
3 MIDWAY BOAT RAMP PROFILE
NOT TO SCALE



INSET "A"
NOT TO SCALE



INSET "B"
NOT TO SCALE



INSET "C"
NOT TO SCALE

NOTE:
EXPANSION JOINT MATERIAL, REINFORCED STEEL, CONNECTIONS, POLY MOISTURE BARRIER, AND TIE BARS TO BE INCIDENTAL TO DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN.

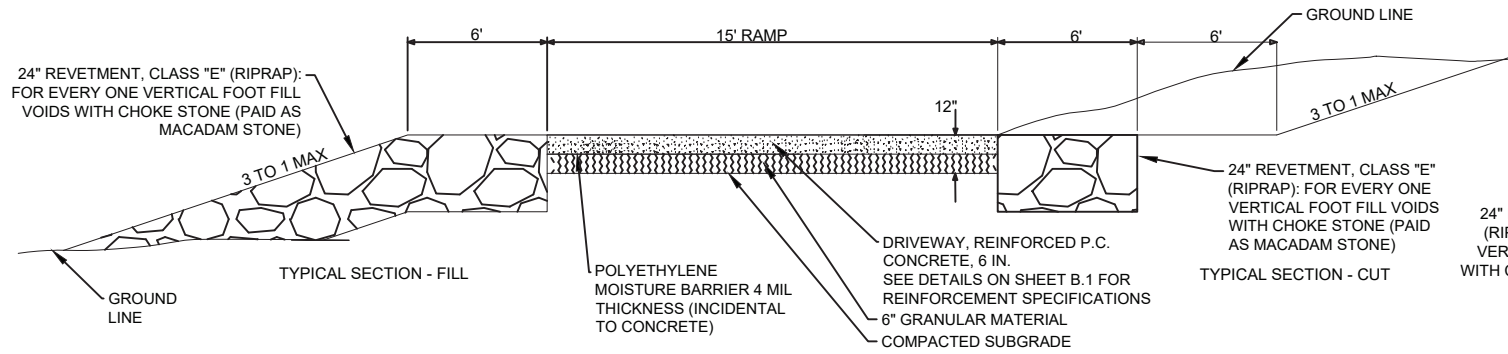
5 BOAT RAMP CONNECTION DETAILS
NOT TO SCALE

ESTHERVILLE, IOWA

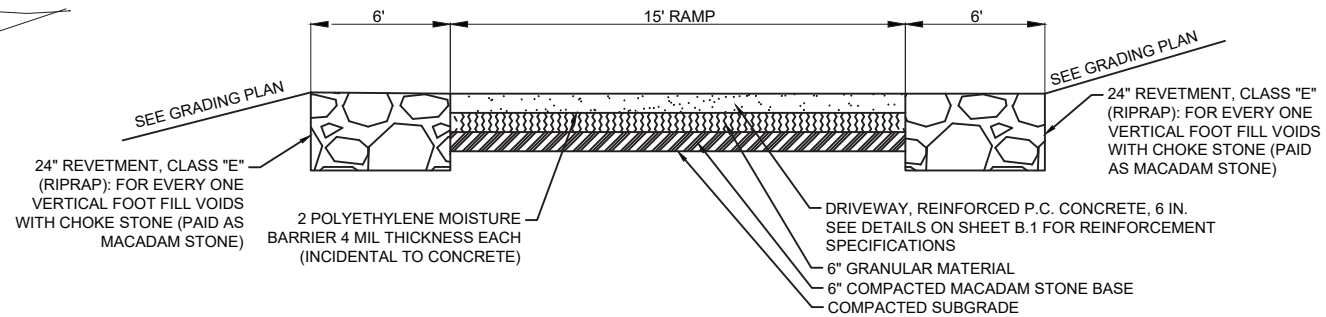
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User: jennings
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User: jennings

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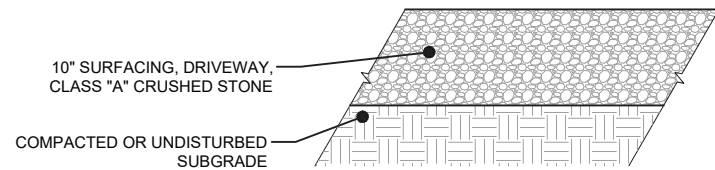
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Xrefs: 227206893.XSD.dwg US Shoreline Stabilization Plans - 15-6489-01 Left Grove WMA V01.dwg B01_LRP.dwg Cover Title - BLOCK



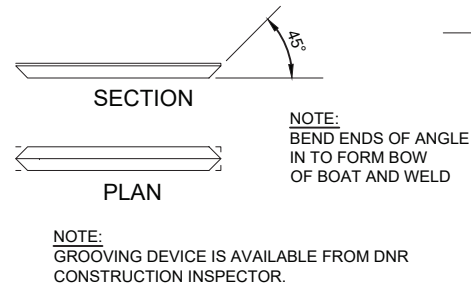
6 MIDWAY BOAT RAMP SECTION (STA 40+00.00 - 41+24.40)
ESTHERVILLE BOAT RAMP SECTION (STA 21+31.45 - 21+88.21)
NOT TO SCALE



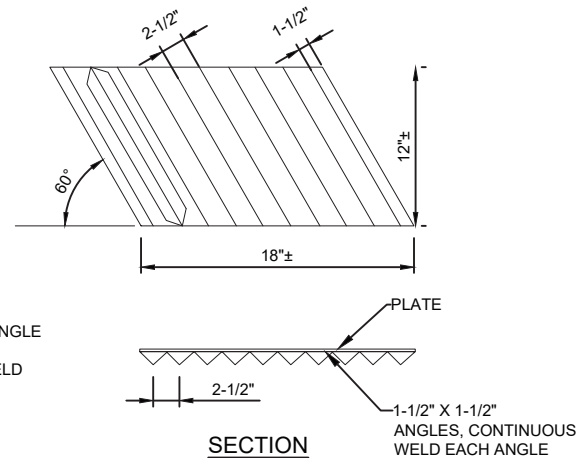
7 MIDWAY BOAT RAMP TRANSITION SECTION (STA 41+24.40 - 41+42.00)
ESTHERVILLE BOAT RAMP TRANSITION SECTION (STA 21+31.45 - 22+35.93)
NOT TO SCALE



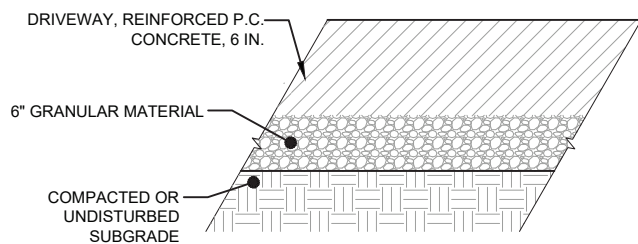
8 CRUSHED STONE PAVEMENT DETAIL
NOT TO SCALE



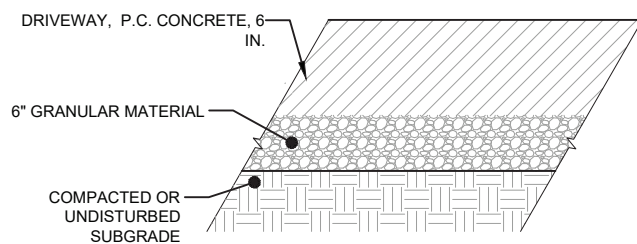
9 DETAIL ON GROOVING DEVICE
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10 CONCRETE SIDEWALK SECTION DETAIL
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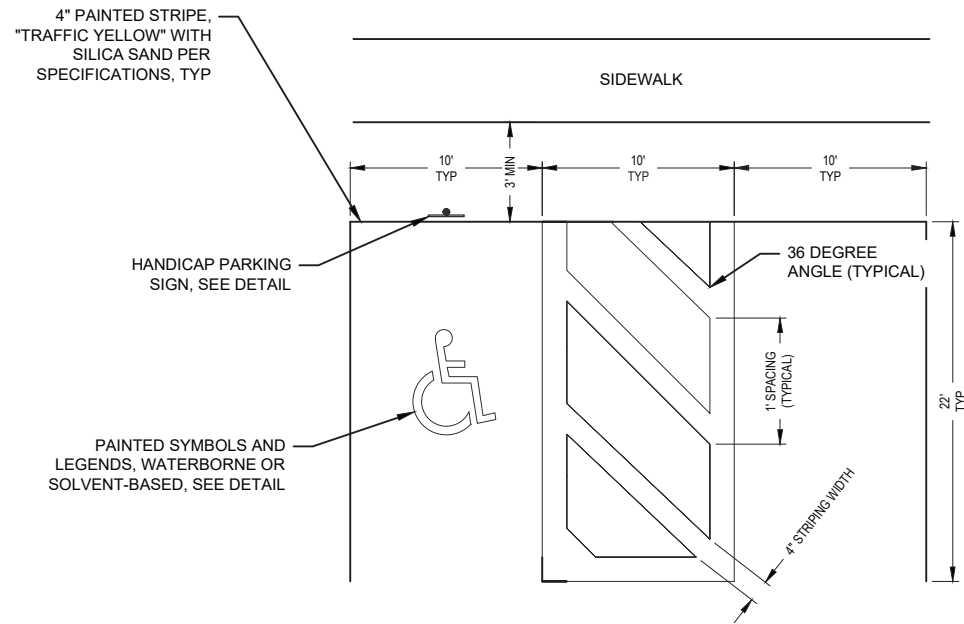


11 P.C. CONCRETE PAVEMENT TYPICAL SECTION
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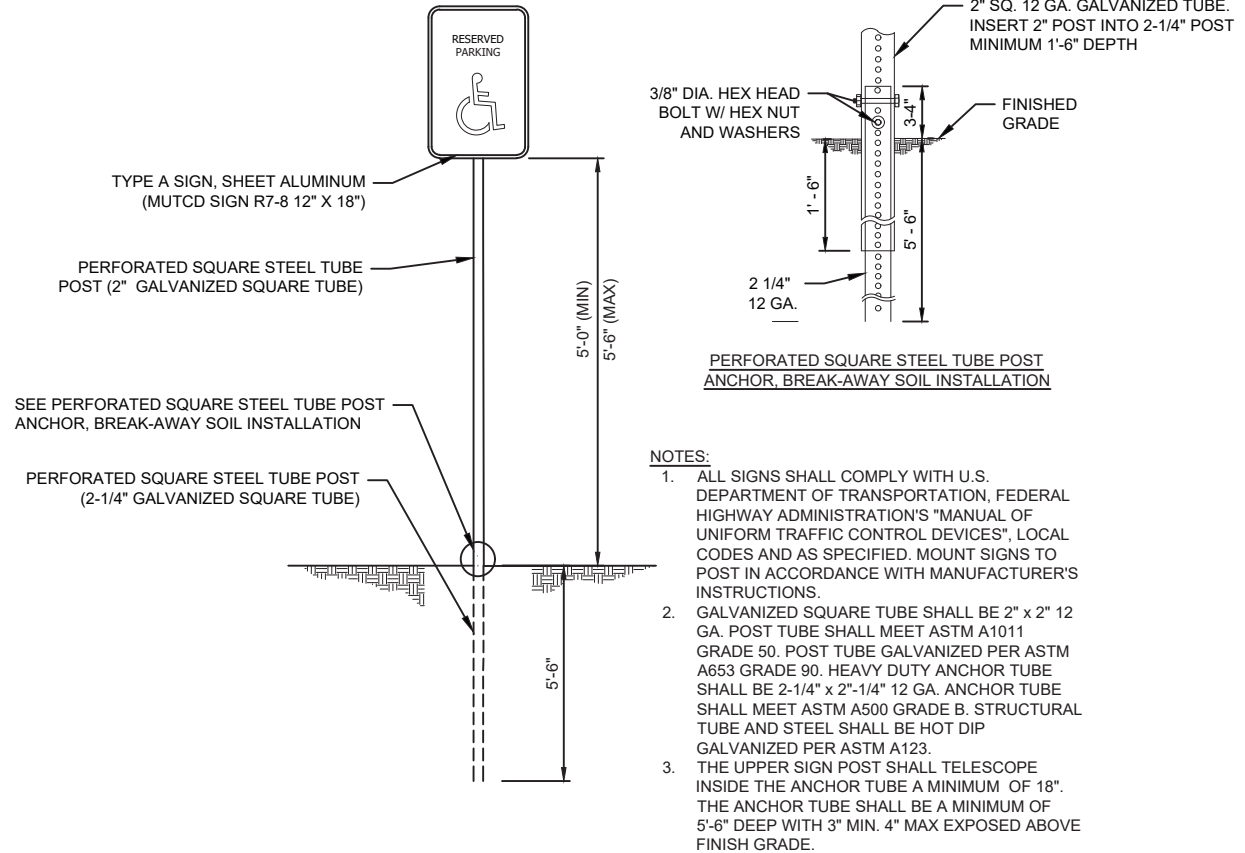


12 MIDWAY KAYAK LAUNCH SECTION (STA 50+64.22 - 51+34.90)
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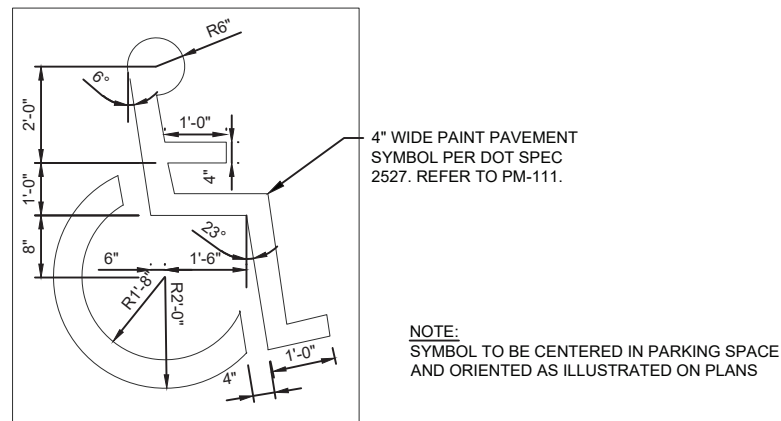
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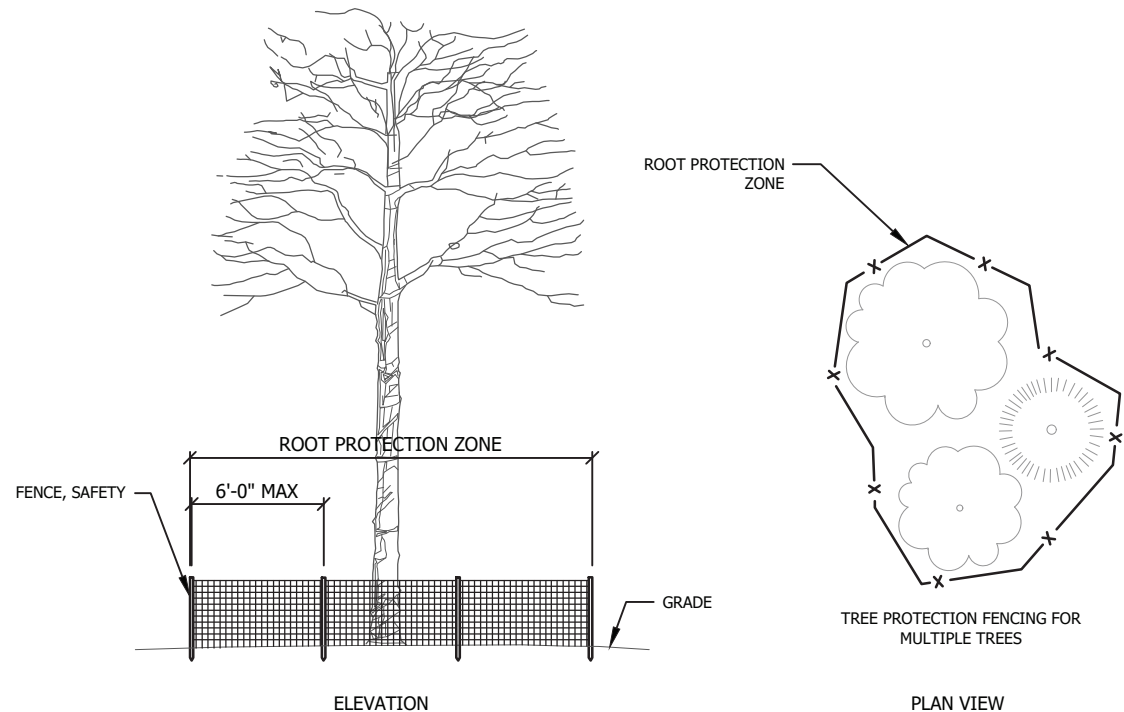
13 HANDICAPPED PARKING STALL LAYOUT
NOT TO SCALE



14 HANDICAP PARKING SIGNS INSTALLATION
NOT TO SCALE



15 TYPICAL HANDICAP PARKING SYMBOL
NOT TO SCALE



16 TREE PROTECTION FENCING
NOT TO SCALE

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DESIGNED MW & PP	
CHECKED PM	
APPROVED PP	
PROJ. NO. 203725001	
SHEET NUMBER	
B.3	



Plot Date: 06/16/2026 - 11:00am
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IOWA

SHEET NUMBER
B.4



ALL WORK AND MATERIALS ASSOCIATED WITH INSTALLATION OF HAND RAILING TO BE PAID FOR AS STEEL PIPE PEDESTRIAN HAND RAILING.

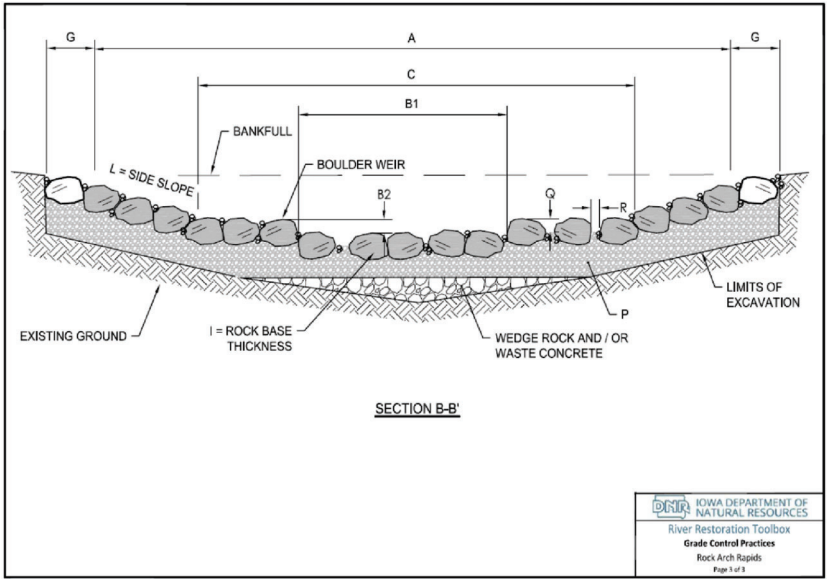
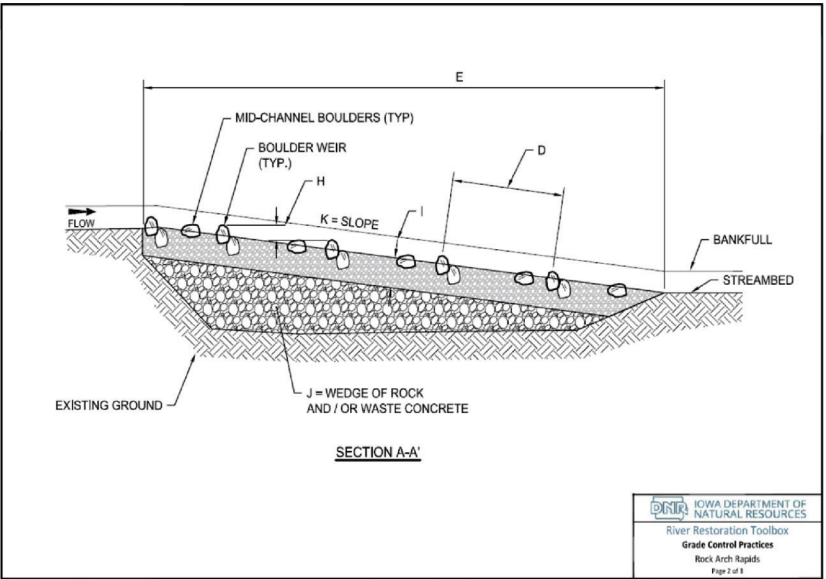
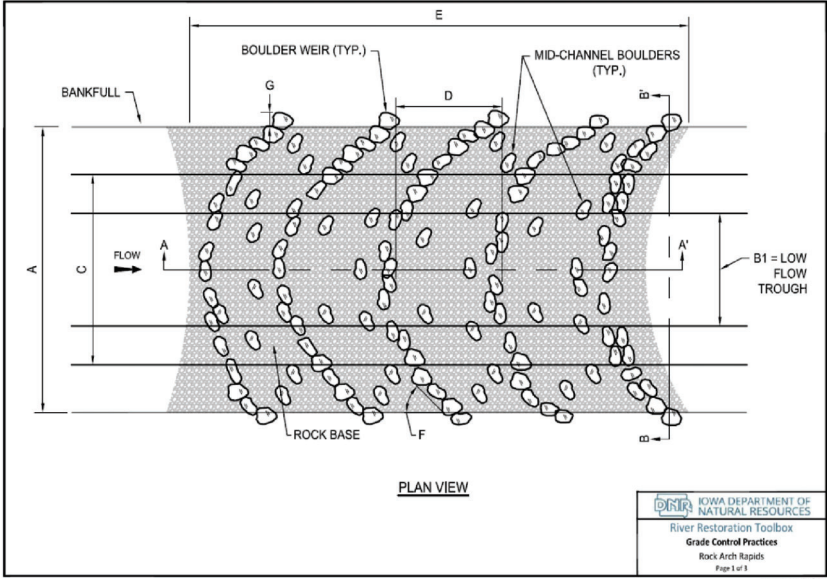


(17

ESTHERVILLE, IOWA

Plot Date: 06/16/2026 - 11:01 am
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 User: B. Jennings
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ROCK ARCH RAPID STRUCTURE TABLE			
DIMENSION	NAME	VALUE	UNIT
A	BANKFULL WIDTH	120	FT
B1	LOW-FLOW TROUGH WIDTH	20	FT
B2	LOW-FLOW TROUGH DEPTH	1	FT
C	CHANNEL BASE WIDTH	30	FT
D	BOULDER WEIR SPACING	25	FT
E	ROCK ARCH RAPID LENGTH	70	FT
F	WEIR ANGLE	NOTE 7	DEGREES
G	CUT-OFF SILL (KEYWAY) LENGTH	6	FT
H	WEIR DROP	0.5	FT
I	BASE STONE LAYER THICKNESS	2.0	FT
K	CENTERLINE SLOPE	3.0	%
L	SIDE SLOPE	4.5	%
P	BASE STONE	0.5	FT
Q	WEIR BOULDER PROTRUSION	0.5	FT
R	WEIR BOULDER FISH GAP	0.5	FT

- STRUCTURE NOTES
1. DETAILS ABOVE WERE TAKEN FROM IOWA DNR STANDARDS.
 2. BOULDER SILLS TIE INTO EXISTING BANKS BETWEEN TOE OF SLOPE AND MID SLOPE. BANKFULL WIDTH IN TABLE REFLECTS THIS WIDTH.
 3. BOULDERS TO BE GENERALLY FLAT WITH A MINIMUM WIDTH OF 3.0 FT AND HEIGHT OF 3.0 FT.
 4. WASTE CONCRETE WILL LIKELY NOT BE ABLE TO BE PLACED BENEATH PLACED RIPRAP DEPTHS OF 2.5 FEET.
 5. MID CHANNEL BOULDERS ARE NOT SHOWN ON PLAN VIEW. PLACEMENT OF THESE BOULDERS SHALL BE DIRECTED BY FIELD ENGINEER.
 6. SECTION A-A' DISPLAYS A TYPICAL PROFILE WHICH FILLS THE DOWNSTREAM POOL. THIS DESIGN ENDS THE ROCK ARCH RAPID STRUCTURE AT THE BEGINNING OF THE POOL. REFERENCE SHEET D.10 FOR AN ACCURATE DEPICTION OF THE PROPOSED PROFILE IN RELATION TO REMOVED DAM AND EXISTING POOL.
 7. DIMENSION AS SHOWN ON PLANS
 8. NOTE: THE BOULDER ARM SILL, DIMENSION G, EXTENDS SUBSURFACE INTO THE RIVERBANK. REFERENCE SECTIONS ON SHEET D--11.

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DRAWN LJ & MF	
DESIGNED MW & PP	
CHECKED PM	
APPROVED PP	
PROJ. NO. 203/248993 203725001	
SHEET NUMBER B.5	

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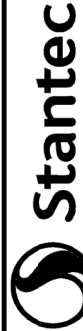
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ESTIMATED PROJECT QUANTITIES							100-1A
ITEM NO.	ITEM CODE	ITEM	UNIT	Midway Div 1	Estherville Div 2	Total	As Built Qty.
1	2101-0850001	CLEARING AND GRUBBING	ACRE	1.1	1.2	2.3	
2	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY		310	310	
3	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	CY	1,270	2,080	3350	
4	2104-2713020	EXCAVATION, CLASS 13, CHANNEL	CY		810	810	
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	519	352	871	
6	2110-3825010	GRANULAR MATERIAL	TON	129	400	529	
7	2210-0475290	MACADAM STONE BASE	TON	152	550	702	
8	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	522	312	834	
9	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS		1	1	
10	2405-2705000	EXCAVATE AND DEWATER	LS		1	1	
11	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF		54	54	
12	2416-0100024	APRONS, CONCLETE, 24 IN. DIA.	LF	2		2	
13	2416-1160024	CULVERT, CONCRETE ENTRANCE PIPE, 24 IN. DIA.	LF	76		76	
14	2507-3250005	ENGINEERING FABRIC	SY		94	94	
15	2507-6800061	REVETMENT, CLASS E	TON	481.9	1,785.7	2267.6	
16	2507-6850053	REVETMENT, SPECIAL	TON		545.6	545.6	
17	2510-6745850	REMOVAL OF PAVEMENT	SY		118	118	
18	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	100	462	562	
19	2511-7526108	SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN	SY		75	75	
20	2511-7528101	DETECTABLE WARNINGS	SF	48	30	78	
21	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	50	171	221	
22	2515-2475106	DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN.	SY	695	267	962	
23	2519-3300600	FENCE, SAFETY	LF	150	130	280	
24	2524-6765110	REMOVAL OF TYPE A SIGN	LF		6	6	
25	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	13	26	39	
26	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH	1	2	3	
27	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	2	3	5	
28	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	LS	0.5	0.5	1.0	
29	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	0.5	0.5	1.0	
30	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	LS	0.5	0.5	1.0	
31	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	0.5	0.5	1.0	
32	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	1	2	3	
33	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	1.1	3.1	4.2	
34	2528-8445110	TRAFFIC CONTROL	LS	0.5	0.5	1.0	
35	2530-5070221	REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA	SY	32		32	
36	2533-4980005	MOBILIZATION	LS	0.5	0.5	1.0	
37	2601-2636015	NATIVE GRASS SEEDING	ACRE		0.5	0.5	
38	2601-2636018	WETLAND GRASS SEEDING	ACRE	0.6		0.6	
39	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	235	190	425	
40	2602-0000020	SILT FENCE	LF	1,665	2,087	3752	
41	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	1,665	2,087	3752	
42	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	1,665	2,087	3752	
43	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	50	100	150	
44	2602-0000212	FLOATING SILT CURTAIN (HANGING)	LF	250	650	900	
45	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN	LF	250	650	900	
46	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	315	1,310	1625	
47	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	315	1,310	1625	
48	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	1	2	

ESTIMATE REFERENCE INFORMATION			100-4A
Item No.	Item Code	Description	
1	2101-0850001	CLEARING AND GRUBBING	
		ALL TREES AND BRUSH WITHIN AREAS TO BE DISTURBED ARE INCLUDED IN THIS ITEM, AS SHOWN ON SHEETS D.2 AND D.3. CONTRACTOR SHALL CLEAR AND GRUB ALL BRUSH WITHIN AREAS TO BE DISTURBED ON EACH SITE. CLEARING OF EXISTING TREES TO BE DONE BY CITY FORCES. GRUBBING OF EXISTING TREE STUMPS TO BE DONE BY CONTRACTOR. TREE PROTECTION IS INCIDENTAL TO THIS ITEM.	
2	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	
		CONTRACTOR SHALL EXCAVATE CONCRETE RUBBLE ADJACENT TO THE EXISTING CONCRETE DAM AS SHOWN ON SHEET D.3. DEPTH ASSUMED TO BE ABOUT 6-INCHES. STOCKPILE CONCRETE RUBBLE AT AN APPROVED LOCATION. CONTRACTOR IS NOTIFIED THAT THE EXCAVATION AREA IS ANTICIPATED TO BE EXCESSIVELY WET AND SPECIALIZED EQUIPMENT, BLOCKING OR MATS MAY BE REQUIRED TO COMPLETE THE WORK. ALL WASTE MUST BE REMOVED FROM THE PROJECT SITE. NO FILL SHALL BE PLACED IN THE FLOODPLAIN AREA.	
3	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	
		CONTRACTOR SHALL GRAD: THE SITE AS DETAILED IN THE D-SHEETS INCLUDING REGRADING WHERE THE EXISTING BOAT RAMP SHOWN ON SHEET D.3 IS CURRENTLY LOCATED. ON-SITE CUT SOILS THAT ARE SUITABLE MATERIAL CAN BE SPREAD ON-SITE AS BACKFILL (MAX 6-INCH DEPTH LIFTS) PER ENGINEER'S DIRECTION. ANY SPOILS CONSISTING OF GRAVEL OR COBBLE SHALL BE SALVAGED AND PLACED WITHIN THE RIPRAP MATERIAL PER ENGINEER'S DIRECTION. SHRINKAGE IS ESTIMATED AT 30%. CONTRACTOR IS NOTIFIED THAT THE EXCAVATION AREA IS ANTICIPATED TO BE EXCESSIVELY WET AND SPECIALIZED EQUIPMENT, BLOCKING OR MATS MAY BE REQUIRED TO COMPLETE THE WORK. ALL WASTE MUST BE REMOVED FROM THE PROJECT SITE. NO FILL SHALL BE PLACED IN FLOODPLAIN AREA.	
		MIDWAY SITE: ESTIMATED CUT = 127C CY; ESTIMATED FILL + 30% = 430 CY TOTAL EXPORT OFFSITE = 840 CY ESTHERVILLE SITE: ESTIMATED CUT = 2310 CY; ESTIMATED FILL + 30% = 60 CY TOTAL EXPORT OFFSITE = 2250 CY	
4	2104-2713020	EXCAVATION, CLASS 13, CHANNEL	
		CONTRACTOR SHALL GRAD: THE SITE AS DETAILED IN THE D-SHEETS THE ITEM WILL BE PAID PER PLAN QUANTITY. ALL SPOILS GENERATED CAN BE SPREAD ON-SITE (MAX 6" DEPTH) PER ENGINEER'S DIRECTION. ANY SPOILS CONSISTING OF GRAVEL OR COBBLE MAY BE SALVAGED AND PLACED AS CHOKER STONE MATERIAL FOR REVETMENT, CLASS "E" OF PROPOSED ROCK ARCH RAPIDS PER ENGINEER'S DIRECTION. SALVAGING SOILS FROM EXCAVATION AND PLACING AS CHOKER STONE MATERIAL IS INCIDENTAL TO THIS BID ITEM.	
		ESTIMATED CUT = 660 CY; ESTIMATED FILL + 30% = 60 CY TOTAL EXPORT OFFSITE = 600 CY	
5	2105-0010010	TOPSOIL, STRIP, SALVAGE AND SPREAD	
		CONTRACTOR SHALL STRIP A MINIMUM OF 6-INCHES OF TOPSOIL ON THE AREAS TO BE DISTURBED AS SHOWN ON SHEETS D.2 AND D.3. STOCKPILE TOPSOIL AT AN APPROVED LOCATION. RE-SPREAD A MINIMUM OF 6-INCHES OF TOPSOIL TO BRING SURFACE TO FINISH GRADE AT ALL DISTURBED AREAS TO BE RESTORED WITH SEEDING AS SHOWN ON SHEETS D.5 AND D.6. ALL WASTE MUST BE REMOVED FROM THE PROJECT SITE.	
6	2110-3825010	GRANULAR MATERIAL	
		CONTRACTOR SHALL PLACE AND COMPACT A 6-INCH DEPTH BASE BELOW THE CONCRETE SIDEWALKS, KAYAK LAUNCHES, BOAT RAMPS, PARKING STALLS, AND PAVEMENT AS DETAILED ON SHEET B.2 AND SHOWN ON SHEETS D.5 AND D.6. CONTRACTOR SHALL PLACE AND COMPACT A 2-FOOT DEPTH BASE BELOW THE CONCRETE FISHING PIER AS DETAILED ON SHEET B.4 AND SHOWN ON SHEET D.6. GRANULAR MATERIAL SHALL COMPLY WITH IOWA DOT SECTION 4121, GRADATION 12A.	
7	2210-0475290	MACADAM STONE BASE	
		CONTRACTOR SHALL PLACE AND COMPACT A 6-INCH DEPTH MACADAM BASE BELOW THE GRANULAR MATERIAL FOR THE 17.6-FOOT PANEL LENGTH AT THE MIDWAY SITE AND THE 32.38-FOOT AND 15.34-FOOT PANEL LENGTHS AT THE ESTHERVILLE SITE THAT WILL BE UNDERWATER AS DETAILED ON SHEET B.1. CHOKER STONE (MACADAM STONE) SHALL BE ADDED TO FILL VOIDS IN THE REVETMENT, CLASS E FOR EVERY VERTICAL FOOT OF BASE STONE AS DETAILED ON SHEETS B.1 AND B.2. MACADAM STONE SHALL COMPLY WITH IOWA DOT SECTION 4122, GRADATION NO. 13. INCLUDES FURNISH AND PLACEMENT OF MACADAM STONE BASE AS SHOWN ON THE DRAWINGS. IOWA DOT WAIVES COMPACTION REQUIREMENTS, IN ACCORDANCE WITH ARTICLE 2210.03, C, OF THE STANDARD SPECIFICATIONS. MACADAM STONE BASE MAY BE CONSTRUCTED ON NATURAL SOIL SUBGRADE AS INDICATED ON THE DRAWINGS.	
8	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	
		CONTRACTOR SHALL PLACE AND COMPACT A 1" SURFACE AT PROPOSED GRAVEL DRIVEWAY AS DETAILED ON SHEET B.2 AND SHOWN ON SHEETS D.5 AND D.6. CLASS "A" CRUSHED STONE SHALL COMPLY WITH IOWA DOT SECTION 4120, GRADATION 11.	
9	2401-6745650	REMOVAL OF EXISTING STRUCTURES	
		ITEM INCLUDES ALL NECESSARY WORK TO REMOVE AND DISPOSE OF THE EXISTING CONCRETE DAM SHOWN ON SHEET D.3. DAM LENGTH IS APPROXIMATELY 70 FEET AND DAM HEIGHT IS APPROXIMATELY 5 FEET INCLUDING APPROXIMATELY 3 FEET OF SUBSURFACE HEIGHT. SALVAGING CONCRETE FROM DAM REMOVAL AND PLACING AS SUPPLEMENT TO REVETMENT, CLASS "E" OF PROPOSED ROCK ARCH RAPID IS INCIDENTAL TO THIS BID ITEM. ITEM INCLUDES CUTTING REBAR FLUSH WITH SALVAGE MATERIAL INTENDED TO BE REUSED.	
10	2405-2705000	EXCAVATE AND DEWATER	
		CONTRACTOR TO EXCAVATE AND DEWATER FOR CHANNEL WORK AS PER SPECIFICATIONS.	
11	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	
		SAFETY RAILING SHALL BE 4 GALVANIZED STEEL PIPE PEDESTRIAN RAILING PER DETAILS SHOWN ON SHEET B.4 THAT MEETS THE STRENGTH AND CONSTRUCTION REQUIREMENTS SET FORTH BY ADAAG, IBC, AND OSHA. THE SAFETY RAILING IS MEASURED FROM END POST TO END POST. PAYMENT SHALL BE AT THE UNIT PRICE PER LINEAR FOOT OF RAILING. UNIT PRICE INCLUDES BUT IS NOT LIMITED TO POSTS, PANELS, FOOTINGS, MOUNTING HARDWARE, AND GROUT.	
12	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	
		ITEM INCLUDES PROVIDING AND PLACING TWO TYPE 2 CONCRETE APRONS PER CONTRACT DOCUMENTS. APRONS SHALL BE INSTALLED AT BOTH ENDS OF PROPOSED CULVERT AS SHOWN ON SHEET D.5. APRONS SHALL COMPLY WITH IOWA DOT SECTION 4030. CERTIFIED PLANT INSPECTION IS REQUIRED FOR CONCRETE ITEMS.	
13	2416-1160024	CULVERT, CONCRETE ENTRANCE PIPE, 24 IN. DIA.	
		ITEM INCLUDES PROVIDING AND PLACING ONE CONCRETE ENTRANCE PIPE IN COMPLIANCE WITH IOWA DOT SECTION 4145. PIPE SHALL BE ROUND CONCRETE PIPE INSTALLED AS SHOWN ON SHEET D.5. CERTIFIED PLANT INSPECTION IS REQUIRED FOR CONCRETE ITEMS.	
14	2507-3250005	ENGINEERING FABRIC	
		ITEM INCLUDES PROVIDING AND PLACING ENGINEERING FABRIC AS DETAILED ON SHEET B.4. ENGINEERING FABRIC SHALL COMPLY WITH IOWA DOT SECTION 4196.	
15	2507-6800061	REVETMENT, CLASS E	
		ITEM INCLUDES PROVIDING AND PLACING CLASS "E" RIPRAP PER CONTRACT DOCUMENTS. RIPRAP TO BE PLACED AT END AND ALONG THE SIDES OF BOAT RAMPS, KAYAK LAUNCHES, AND SIDEWALKS, AS EMBANKMENT ALONG RIVERBANKS, AND WITHIN AREA OF PROPOSED ROCK ARCH RAPID AS SHOWN ON SHEETS D.5 AND D.6. CLASS "E" RIPRAP SHALL COMPLY WITH IOWA DOT SECTION 4130.	

ESTHERVILLE, IOWA

IOWA DOT PROJECT #: NRT-2417(610)--9G-32



3325 S TIMBERLINE RD
FORT COLLINS, CO 80525
www.stantec.com

QUANTITIES AND GENERAL INFORMATION

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE
JUNE 16, 2026

NO	REVISION	DATE
1	PRELIMINARY	02/17/2026
2	CHECK	04/07/2026
3	FINAL	06/16/2026

SURVEY	JACOBSON WESTGARD ASSOC.
DRAWN	LI & NF
DESIGNED	MW & FP
CHECKED	PM
APPROVED	FP
PROJ. NO.	203724695 203725001

SHEET NUMBER
C.1

Plot Date: 06/16/2026 - 11:11:11 am
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Xref: TITLE BLOCK

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS. NO REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS FORBIDDEN.

ESTIMATE REFERENCE INFORMATION			100-4A
Item No.	Item Code	Description	
16	2507-6850053	REVETMENT, SPECIAL	
		THE SPECIAL REVETMENT SHALL BE BROKEN LIMESTONE, DOLOMITE, QUARTZITE, OR GRANITE MATERIAL FROM AN APPROVED SOURCE AS DESCRIBED IN MATERIALS I.M. 409 THAT HAS A NOMINAL DIAMETER BETWEEN 3 TO 4 FEET. SPECIAL REVETMENT SHALL BE MEASURED TO THE NEAREST 0.1 TON OF MATERIAL PLACED ACCORDING TO THE CONTRACT DOCUMENTS. SPECIAL REVETMENT SHALL BE PAID FOR BY THE CONTRACT UNIT PRICE. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR ALL WORK, INCLUDING BANK SHAPING, FURNISHING AND PLACING ALL MATERIAL, AND FOR FURNISHING ALL EQUIPMENT, TOOLS, AND LABOR NECESSARY TO COMPLETE THE WORK ACCORDING TO THE CONTRACT DOCUMENTS. REVETMENT, SPECIAL PLACEMENT IS TO MEET A VERTICAL TOLERANCE OF 0.1- FEET RELATIVE TO DETAILS ON SHEET D.11.	
17	2510-6745850	REMOVAL OF PAVEMENT	
		ITEM INCLUDES SAWCUTTING, REMOVAL, AND DISPOSAL OF ALL PAVEMENT AS SHOWN IN THE DRAWINGS. THE P.C. CONCRETE PAVEMENT REMOVAL DEPTH OF THE BOAT RAMP IN THE ESTHERVILLE SITE SHOWN ON SHEET D.3 IS ASSUMED TO BE 6-INCHES.	
18	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	
		CONTRACTOR TO INSTALL 6-INCH NON-REINFORCED CLASS "C" P.C. CONCRETE AS DETAILED ON SHEETS D.5 AND D.6 AND IN COMPLIANCE WITH IOWA DOT SECTION 2511. ITEM INCLUDES FURNISHING ALL MATERIAL, EQUIPMENT, AND LABOR TO CONSTRUCT THE SIDEWALK AS SHOWN IN THE DRAWINGS. CONTRACTOR SHALL FURNISH OR BE RESPONSIBLE FOR CERTIFIED PLANT INSPECTION FOR THE WORK.	
19	2511-7526108	SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN.	
		CONTRACTOR TO INSTALL 8-INCH REINFORCED CLASS "C" P.C. CONCRETE AS DETAILED ON SHEET D.6 AND IN COMPLIANCE WITH IOWA DOT SECTION 2511. ITEM INCLUDES FURNISHING ALL MATERIAL, EQUIPMENT, AND LABOR TO CONSTRUCT THE SIDEWALK AS SHOWN IN THE DRAWINGS. CONTRACTOR SHALL FURNISH OR BE RESPONSIBLE FOR CERTIFIED PLANT INSPECTION FOR THE WORK.	
20	2511-7528101	DETECTABLE WARNINGS	
		DETECTABLE WARNINGS TO BE FEDERAL BRICK RED #22144. SEE S-SHEETS FOR LOCATIONS.	
21	2515-2475006	DRIVEWAY, P.C., CONCRETE 6 IN.	
		CONTRACTOR TO INSTALL 6-INCH CLASS "C" P.C. CONCRETE PAVEMENT FOR CONCRETE PARKING AREAS AS DETAILED ON SHEETS D.5 AND D.6. THIS ITEM INCLUDES ALL WORK ASSOCIATED WITH THE CASTING, JOINTING, REINFORCING, PLACING AND FINISHING OF THE PAVEMENT. COMPLY WITH IOWA DOT SPECIFICATIONS SECTION 2515. CERTIFIED PLANT INSPECTION IS REQUIRED FOR CONCRETE ITEMS.	
22	2515-2475106	DRIVEWAY, REINFORCED P.C., CONCRETE 6 IN.	
		CONTRACTOR TO INSTALL 6-INCH REINFORCED CLASS "C" P.C. CONCRETE DRIVEWAY AND GROOVED BOAT RAMPS AS DETAILED ON SHEETS D.5 AND D.6. THIS ITEM INCLUDES ALL WORK ASSOCIATED WITH THE CASTING, JOINTING, REINFORCING, PLACEMENT AND FINISHING OF THE RAMPS INCLUDING SECTIONS PLACED UNDER THE WATER DETAILED ON SHEETS B.1 AND B.2. COMPLY WITH IOWA DOT SPECIFICATIONS SECTION 2515. CERTIFIED PLANT INSPECTION IS REQUIRED FOR CONCRETE ITEMS.	
23	2519-3300600	FENCE, SAFETY	
		REFER TO SHEETS D.2 AND D.3 FOR LOCATION AND DETAILS. ITEM IS FOR PROVIDING ORANGE MESH SAFETY FENCING 4 FEET HIGH WITH STAKES EVERY 10 FEET AND PLACING BOTH 5 FEET OUTSIDE OF THE DRIP LINE OF TREES TO BE PROTECTED AND AS DRAWN ON SHEET D.3 TO PROTECT EXISTING ROCK GARDEN. REMOVAL OF FENCING IS INCIDENTAL TO THIS ITEM. SAFETY FENCE SHALL BE MEASURED TO THE NEAREST LINEAR FOOT OF MATERIAL AND PLACED ACCORDING TO THE CONTRACT DOCUMENTS. SAFETY FENCE SHALL BE PAID FOR BY THE CONTRACT UNIT PRICE. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR ALL WORK INCLUDING INSTALLATION AND REMOVAL AND FOR FURNISHING ALL EQUIPMENT, TOOLS, AND LABOR NECESSARY TO COMPLETE THE WORK ACCORDING TO THE CONTRACT DOCUMENTS.	
24	2524-6765110	REMOVAL OF TYPE A SIGN	
		REFER TO SHEET D.3 FOR LOCATION AND DETAILS. ITEM IS FOR THE REMOVAL OF SHEET ALUMINUM, GALVANIZED SHEET OR PLYWOOD SIGN PANEL FROM ITS SUPPORT STRUCTURE IE: WOOD/STEEL POSTS, OVERHEAD TRUSS OR ANOTHER SIGN. MEASUREMENT IS BY THE EACH. THE ENGINEER WILL COUNT THE NUMBER OF TYPE A SIGN PANELS REMOVED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH TYPE A SIGN PANEL REMOVED.	
25	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	
		ITEM IS FOR ADA PARKING SIGNS SHOWN ON SHEETS D.5 AND D.6 AND DETAILED ON B.3.	
26	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	
		ITEM IS FOR ADA PARKING SIGNS SHOWN ON SHEETS D.5 AND D.6 AND DETAILED ON B.3. UNIT PRICE INCLUDES BUT IS NOT LIMITED TO MOUNTING HARDWARE.	
27	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	
		ITEM IS FOR ADA PARKING SIGNS SHOWN ON SHEETS D.5 AND D.6 AND DETAILED ON B.3. SIGNAGE INCLUDES R7-8(12"x18"). PAYMENT IS FULL COMPENSATION FOR ERECTING THE SIGNS COMPLETE WITH ALL MOUNTING HARDWARE.	
28	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	
		CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKING FOR THE PROJECT. SURVEY INFORMATION PROVIDED IN PROJECT PLANS IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR PURPOSES RELATED TO CONSTRUCTION SURVEY. PROJECT PLANS AND ASSOCIATED ELECTRONIC FILES SHOULD NOT BE USED TO ESTABLISH CONSTRUCTION SURVEY BASELINES. PRIOR TO CONSTRUCTION, PERFORM A SURVEY TO LOCATE EXISTING MONUMENTS ON THE SITE AND PRESERVE THEM PER IOWA DOT SECTION 2526. THE GPS MACHINE CONTROL GRADING DATA FILES AS LISTED IN THE CURRENT STANDARD SPECIFICATIONS WILL BE MADE AVAILABLE AT CONTRACTOR'S REQUEST. SURVEY ALL GRADING AREAS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OFFICE OF LOCATION AND ENVIRONMENT WITH THE ELECTRONIC SURFACE FILES IN LANDXML FORMAT. PROVIDE ELECTRONIC DATA AND SURVEY COPIES TO THE CITY OF ESTHERVILLE, CONSTRUCTION ENGINEER.	
29	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	
		CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKING FOR THE PROJECT. SURVEY INFORMATION PROVIDED IN PROJECT PLANS IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR PURPOSES RELATED TO CONSTRUCTION SURVEY. PROJECT PLANS AND ASSOCIATED ELECTRONIC FILES SHOULD NOT BE USED TO ESTABLISH CONSTRUCTION SURVEY BASELINES. PRIOR TO CONSTRUCTION, PERFORM A SURVEY TO LAYOUT THE PROPOSED CONTROL POINTS FOR THE SITE PER IOWA DOT SECTION 2526. THE GPS MACHINE CONTROL GRADING DATA FILES AS LISTED IN THE CURRENT STANDARD SPECIFICATIONS WILL BE MADE AVAILABLE AT CONTRACTOR'S REQUEST. SURVEY ALL GRADING AREAS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OFFICE OF LOCATION AND ENVIRONMENT WITH THE ELECTRONIC SURFACE FILES IN LANDXML FORMAT. PROVIDE ELECTRONIC DATA AND SURVEY COPIES TO THE CITY OF ESTHERVILLE, CONSTRUCTION ENGINEER.	

ESTIMATE REFERENCE INFORMATION			100-4A
Item No.	Item Code	Description	
30	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	
		CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKING FOR THE PROJECT. SURVEY INFORMATION PROVIDED IN PROJECT PLANS IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR PURPOSES RELATED TO CONSTRUCTION SURVEY. PROJECT PLANS AND ASSOCIATED ELECTRONIC FILES SHOULD NOT BE USED TO ESTABLISH CONSTRUCTION SURVEY BASELINES. PRIOR TO CONSTRUCTION, PERFORM A SURVEY TO LAYOUT THE EXISTING RIGHT OF WAY PER IOWA DOT SECTION 2526. THE GPS MACHINE CONTROL GRADING DATA FILES AS LISTED IN THE CURRENT STANDARD SPECIFICATIONS WILL BE MADE AVAILABLE AT CONTRACTOR'S REQUEST. SURVEY ALL GRADING AREAS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OFFICE OF LOCATION AND ENVIRONMENT WITH THE ELECTRONIC SURFACE FILES IN LANDXML FORMAT. PROVIDE ELECTRONIC DATA AND SURVEY COPIES TO THE CITY OF ESTHERVILLE, CONSTRUCTION ENGINEER.	
31	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	
		CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKING FOR THE PROJECT. THIS STAKING WILL BE DEFINED AS VERIFYING SLOPES OF THE FORM WORK BY USING A LEVEL, OR OTHER MEANS, BASED ON THE PLANS. THIS SERVES AS AN ADDITIONAL CHECK TO VERIFY SLOPES ARE WITHIN TOLERANCES PRIOR TO PLACING CONCRETE. SURVEY INFORMATION PROVIDED IN PROJECT PLANS IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR PURPOSES RELATED TO CONSTRUCTION SURVEY. PROJECT PLANS AND ASSOCIATED ELECTRONIC FILES SHOULD NOT BE USED TO ESTABLISH CONSTRUCTION SURVEY BASELINES. PRIOR TO CONSTRUCTION, PERFORM A LOCATION SURVEY TO LAYOUT THE PROPOSED GRADING DESIGN PER IOWA DOT SECTION 2526. THE GPS MACHINE CONTROL GRADING DATA FILES AS LISTED IN THE CURRENT STANDARD SPECIFICATIONS WILL BE MADE AVAILABLE AT CONTRACTOR'S REQUEST. SURVEY ALL GRADING AREAS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OFFICE OF LOCATION AND ENVIRONMENT WITH THE ELECTRONIC SURFACE FILES IN LANDXML FORMAT. PROVIDE ELECTRONIC DATA AND SURVEY COPIES TO THE CITY OF ESTHERVILLE, CONSTRUCTION ENGINEER.	
32	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	
		CONTRACTOR SHALL INSTALL PAVEMENT MARKINGS AS SHOWN ON SHEETS D.5 AND D.6 AND DETAILED ON SHEET B.3 AND ENSURE COMPLIANCE WITH IOWA DOT SPECIFICATIONS SECTION 8020. ITEM INCLUDES CLEANING AND SURFACE PREPARATION.	
33	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	
		CONTRACTOR SHALL INSTALL PAVEMENT MARKINGS AS SHOWN ON SHEETS D.5 AND D.6 AND DETAILED ON SHEET B.3 AND ENSURE COMPLIANCE WITH IOWA DOT SPECIFICATIONS SECTION 8020. ITEM INCLUDES CLEANING AND SURFACE PREPARATION.	
34	2528-8445110	TRAFFIC CONTROL	
		THIS ITEM INCLUDES PROVIDING AND INSTALLING NECESSARY TRAFFIC CONTROL MEASURES AS PER THE STANDARD ROAD PLANS AND J-SHEETS. REFER TO J-SHEETS FOR ADDITIONAL INFORMATION.	
35	2530-5070221	REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA	
		SEE SHEET D.5 FOR LOCATION.	
36	2533-4980005	MOBILIZATION	
		THIS ITEM INCLUDES MOBILIZATION AND DEMOBILIZATION AND SHALL CONSIST OF THE FOLLOWING WORK, BUT NOT LIMITED TO: MOBILIZATION AND DEMOBILIZATION OF MATERIAL AND EQUIPMENT TO THE SITE, PREPARATION OF ALL NECESSARY PERMITS, SUBMITTAL NOTIFICATIONS AND OTHER DOCUMENTATION, TEMPORARY CONTROLS, FACILITIES, AND ACCESS ROADS, UTILITY PROPERTY AND SERVICE PERMITS AND BONDS, FINAL SITE CLEAN-UP.	
37	2601-2636015	NATIVE GRASS SEEDING	
		THE CONTRACTOR SHALL SEED AND WATER ALL DISTURBED AREAS PER SPECIFICATIONS AND AS SHOWN ON SHEET D.6. ENSURE COMPLIANCE WITH IOWA DOT SPECIFICATIONS SECTIONS 2601 AND 9010.	
38	2601-2636018	WETLAND GRASS SEEDING	
		THE CONTRACTOR SHALL SEED AND WATER ALL DISTURBED AREAS PER SPECIFICATIONS AND AS SHOWN ON SHEET D.5. ENSURE COMPLIANCE WITH IOWA DOT SPECIFICATIONS SECTIONS 2601 AND 9010.	
39	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	
		CONTRACTOR TO INSTALL EROSION CONTROL PRODUCT AS PER SPECIFICATIONS AND AS DETAILED ON RR-SHEETS.	
40	2602-0000020	SILT FENCE	
		CONTRACTOR TO INSTALL SILT FENCE AS PER SPECIFICATIONS AND AS DETAILED ON RR-SHEETS.	
41	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	
		CONTRACTOR TO REMOVE SILT FENCE AS PER SPECIFICATIONS AND AS DETAILED ON RR-SHEETS.	
42	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	
		CONTRACTOR TO MAINTAIN SILT FENCE AS PER SPECIFICATIONS AND AS DETAILED ON RR-SHEETS.	
43	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	
		CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE AS PER SPECIFICATIONS AS SHOWN ON SHEETS RR.2 AND RR.3. FOLLOW STANDARD DETAIL AND DO ALL PROPER MAINTENANCE AND UPKEEP TO ENSURE IT IS WORKING PROPERLY TO MINIMIZE TRACKING DEBRIS OFFSITE. ENSURE FILTER FABRIC IS PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH THE ROCK.	
44	2602-0000212	FLOATING SILT CURTAIN (HANGING)	
		CONTRACTOR TO INSTALL SILT CURTAIN AS DETAILED ON RR-SHEETS. CONTRACTOR SHALL PLACE FLOATING SILT CURTAIN TO ELIMINATE SEDIMENT FROM FLOWING DOWNSTREAM. REFER TO DEVELOPMENTAL SPECIFICATION 23011 FOR ADDITIONAL INFORMATION.	
45	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN	
		CONTRACTOR TO MAINTAIN SILT CURTAIN AS DETAILED ON RR-SHEETS. CONTRACTOR SHALL ADJUST LOCATION OF FLOATING SILT CURTAIN TO ACCOMMODATE REMOVAL AND CONSTRUCTION OF BOAT RAMPS. REFER TO DEVELOPMENTAL SPECIFICATION 23011 FOR ADDITIONAL INFORMATION. ALL ADJUSTMENTS ARE INCIDENTAL TO MAINTENANCE OF FLOATING SILT CURTAIN.	
46	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	
		CONTRACTOR TO INSTALL SEDIMENT CONTROL DEVICES AS PER SPECIFICATIONS AND AS DETAILED ON RR-SHEETS.	
47	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	
		CONTRACTOR TO REMOVE SEDIMENT CONTROL DEVICES AS PER SPECIFICATIONS AND AS DETAILED ON RR-SHEETS.	
48	2602-0010010	MOBILIZATIONS, EROSION CONTROL	
		THIS ITEM INCLUDES MOBILIZATION AND DEMOBILIZATION FOR EROSION CONTROL AND SHALL CONSIST OF THE FOLLOWING WORK, BUT NOT LIMITED TO: MOBILIZATION AND DEMOBILIZATION OF MATERIAL AND EQUIPMENT TO THE SITE, PREPARATION OF ALL NECESSARY PERMITS, SUBMITTAL NOTIFICATIONS AND OTHER DOCUMENTATION, TEMPORARY CONTROLS, FACILITIES, AND ACCESS ROADS, UTILITY PROPERTY AND SERVICE PERMITS AND BONDS, FINAL SITE CLEAN-UP.	



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GENERAL INFORMATION

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE

IOWA

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PROJ. NO.	2037248995	203725001
SHEET NUMBER		
C.2		

Plot Date: 06/16/2026 - 11:11:20am
Drawing name: C:\Users\jennings\OneDrive\Documents\stntec consulting\20372501 - estherville_boor_ramp\project files\cadd\sheet_files\COVER.dwg
Xrefs: TITLE BLOCK

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GENERAL NOTES	
1.	CONTRACTOR SHALL NOTIFY IOWA DNR PROJECT MANAGER, OWNER, AND ENGINEER TWO WEEKS PRIOR TO STARTING CONSTRUCTION AND TWO BUSINESS DAYS PRIOR TO STARTING CONSTRUCTION: a. IOWA DNR PROJECT MANAGER : JOHN WENCK (515-494-8629) b. OWNER (CITY OF ESTHERVILLE): PENNY CLAYTON (712-362-7771) c. ENGINEER (STANTEC): PATRICK PHILBIN (970-449-8647)
2.	CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA DOT STANDARDS AND THE PROJECT MANUAL. CONSTRUCTION TESTING SHALL BE IN ACCORDANCE WITH IOWA DOT STANDARDS AND IS AT THE EXPENSE OF THE CONTRACTOR.
3.	UNTIL REVISION BLOCK STATES "ISSUED FOR CONSTRUCTION", THE PLAN SET IS NOT CERTIFIED FOR CONSTRUCTION AND CONTRACTOR IS BUILDING AT THEIR OWN RISK.
4.	EXISTING CONDITIONS SHOWN ARE FROM A TOPOGRAPHIC SURVEY COMPLETED BY JACOBSON-WESTERGARD AND ASSOCIATES INC, DATED 11/20/2025. EXISTING FEATURES MAY NOT BE EXACT TO THEIR LOCATION. CONTRACTOR RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE SITE AND MUST IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF DISCREPANCIES OR VARIATIONS FROM THE DRAWINGS. CONTROL POINTS WITHIN THE VICINITY OF THE PROJECT AREA WILL BE PROVIDED ONSITE FOR THE AWARDED CONTRACTOR PRIOR TO CONSTRUCTION OPERATIONS TO AID CONTRACTOR'S CONSTRUCTION SURVEY AND STAKING REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL PROTECT BENCHMARKS AND CONTROLS POINTS THROUGHOUT THE DURATION OF THE PROJECT.
5.	SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-2 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". EXACT LOCATION/DEPTH OF SUBSURFACE UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, SEWER, WATER, PIPELINES, ELECTRICAL, AND CABLE TV ARE UNKNOWN AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
6.	CONTRACTOR RESPONSIBLE FOR CONTACTING IOWA ONE CALL (1-800-292-8989) A MINIMUM OF 48 HOURS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) BEFORE STARTING WORK FOR LOCATIONS OF UNDERGROUND UTILITIES.
7.	CONTRACTOR SHALL ANTICIPATE PRIVATE UTILITY CONFLICTS THROUGHOUT THE PROJECT SUB CUT AND TRENCH AREAS AND MUST COORDINATE THE RELOCATION OR PROTECTION OF EXISTING UTILITIES, OR INSTALLATION OF NEW UTILITIES WITH UTILITY OWNERS THAT MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE STARTING WORK. COSTS FOR SUCH WORK, INCLUDING EXTRA TIME AND EFFORT FOR PROVISIONS NECESSARY TO WORK AROUND OR UNDER UTILITIES, IS THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. FEES OR CHARGES WHICH ARE TO BE PAID TO THE UTILITY COMPANY, INCLUDING WORK THAT MUST BE PERFORMED BY THE UTILITY COMPANY, ARE AT NO ADDITIONAL COST TO THE OWNER.
8.	QUANTITIES ARE APPROXIMATE, AND MAY VARY TO ALLOW COMPLETION OF WORK. IN THE EVENT OF A DISCREPANCY BETWEEN WRITTEN AND PLAN QUANTITIES, THE PLANS SHALL GOVERN.
9.	WORK AND MATERIALS MUST COMPLY WITH CITY, COUNTY, STATE, AND FEDERAL (INCLUDING OSHA) REGULATIONS AND CODES.
10.	CONTRACTOR SHALL COORDINATE WORK WITH OTHER CONTRACTORS PERFORMING WORK AT OR NEAR THE SITE.
11.	CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS TO ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
12.	CONTRACTOR SHALL COORDINATE AND MAINTAIN MAIL, GARBAGE, AND RECYCLING SERVICES TO PROPERTIES THROUGHOUT CONSTRUCTION.
13.	CONTRACTOR SHALL COORDINATE AND MAINTAIN STORMWATER DRAINAGE CONVEYANCE THROUGHOUT CONSTRUCTION (BOTH PIPED AND OVERLAND FLOW).
14.	CONTRACTOR SHALL COORDINATE AND MAINTAIN WATER AND SANITARY FLOW TO AND FROM PROPERTIES.
15.	CONTRACTOR SHALL COORDINATE AND MAINTAIN UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICE MUST NOT BE INTERRUPTED WITHOUT APPROVAL FROM OWNER, CITY, AND ADJACENT PROPERTIES.
16.	CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON PLANS WITHIN THE CONSTRUCTION LIMITS.
17.	CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PAVEMENT, SITE FEATURES, UTILITIES, TREES, ETC., UNLESS NOTED OR SHOWN OTHERWISE.
18.	CONTRACTOR SHALL PHOTOGRAPH OR VIDEO DOCUMENT EXISTING CONDITIONS OF TREES AND PLANTINGS, ADJOINING CONSTRUCTION, SURFACES, AND SITE IMPROVEMENTS, ETC. TO REMAIN THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY CONSTRUCTION OPERATIONS. SUBMIT TO ENGINEER AND OWNER BEFORE CONSTRUCTION BEGINS. USE ADEQUATELY DETAILED PHOTOGRAPHS OR VIDEO RECORDINGS. INCLUDE PLANS AND NOTATIONS TO INDICATE SPECIFIC EXISTING DAMAGE CONDITIONS OF ITEMS DESIGNATED TO REMAIN. ANY DAMAGE TO THE EXISTING PAVEMENT, CURBING, STRIPING, OR OTHER SITE FEATURE TO REMAIN MUST BE REPLACED BY THE CONTRACTOR, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
19.	CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES.
20.	CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS. CONTRACTOR SHALL DECOMPACT SOILS IN PERVIOUS AREAS TO A 6 INCH DEPTH IN AREAS WHERE COMPACTION OCCURRED FROM CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL SEED, MULCH, PLACE ROLLED EROSION CONTROL PRODUCTS, AND FERTILIZE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
21.	CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER IN WRITING OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER AND ENGINEER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
22.	THE ENGINEER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FIELD TO THE DIMENSIONS, LOCATIONS, DETAILS, AND EROSION CONTROL PRACTICES NEEDED TO PRESERVE TREES AND OTHER HABITAT AND TO FIT SITE CONDITIONS.
23.	CONTRACTOR SHALL HAVE ONE COPY OF EACH REQUIRED CONSTRUCTION PERMIT AND ONE COPY OF THE MOST CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS AND PROVISIONS, ETC.) AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
24.	CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IMPLEMENTATION AND ENFORCEMENT OF SAFE WORK PRACTICES, INCLUDING BUT NOT LIMITED TO PERSONNEL MONITORING; USE OF TRENCHING, SHEETING, SHORING, AND SCAFFOLDING; MATERIALS HANDLING AND DRILLING; OPERATION OF EQUIPMENT; AND SAFETY OF PUBLIC DURING PROGRESS OF WORK.
25.	CONTRACTOR SHALL PLAN FOR AND ENSURE PERSONNEL COMPLY WITH PROVISIONS OF OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND GENERAL CONSTRUCTION STANDARDS (29 CFR 1926) AS APPROPRIATE.
26.	CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH WORK. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS FOR SAFETY OF EMPLOYEES ON PROJECT SITE AND OTHER PERSONS AND ORGANIZATIONS WHO MAY BE AFFECTED BY THE PROJECT. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY IN CONNECTION WITH WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL WORK IS COMPLETED, AND ENGINEER HAS ISSUED NOTICE TO CONTRACTOR THAT WORK IS COMPLETE.

GENERAL NOTES	
27.	HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO OIL, GASOLINE, PAINT AND OTHER HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED BY THE CONTRACTOR, INCLUDING SECONDARY CONTAINMENTS, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH LOCAL/STATE/FEDERAL REGULATIONS. CONTRACTOR SHALL REMOVE SPILL OF FUELS, OILS, OR OTHER CHEMICALS IMMEDIATELY UPON DETECTION.
28.	IF CONSTRUCTION IS ANTICIPATED TO OCCUR DURING COLD WEATHER, IN THE EVENT THAT SNOW OR ICE REMOVAL IS REQUIRED FOR SITE ACCESS AND CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL COORDINATE WITH OWNER FOR ACCEPTABLE SNOW AND ICE STORAGE AREAS ONSITE. SNOW AND ICE REMOVAL AND STORAGE IS INCIDENTAL TO THE CONTRACT.
29.	CONTRACTOR SHALL REFUEL EQUIPMENT AT A LOCATION AWAY FROM THE RIVER AND ACCEPTABLE TO THE OWNER.
30.	NO IN-WATER WORK SHALL BE PERFORMED OUTSIDE OF THE PERMITTED DATES. IF THE CONTRACTOR DESIRES TO WORK IN THE WATER OUTSIDE OF THE PERMITTED DATES, THEY MUST SEEK WRITTEN APPROVAL FORM THE IA DNR.
31.	ALL IN-WATER WORK MUST BE SEQUENCED TO AVOID DEWATERING.
32.	DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, ACTIONS MUST BE TAKEN TO PREVENT POLLUTION AFFECTING PUBLIC HEALTH, FISH, SHELLFISH, WILDLIFE, AND RECREATION DUE TO TURBIDITY, PH, NUTRIENTS, SUSPENDED SOLIDS, FLOATING DEBRIS, VISIBLE OIL AND GREASE, OR OTHER POLLUTANTS ENTERING A WATER OF THE STATE. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
33.	EQUIPMENT USED IN WATERS OF THE STATE SHALL BE CLEANED OF ALL HAZARDOUS MATERIALS, PESTICIDES, FUELS, LUBRICANTS, OILS, HYDRAULIC FLUIDS, OR OTHER CONSTRUCTION-RELATED, POTENTIALLY HAZARDOUS SUBSTANCES BEFORE ARRIVING ON SITE. WASH WATER SHALL NOT BE DISCHARGED INTO A WATER OF THE STATE. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
34.	ALL CLEARED VEGETATIVE MATERIAL SHALL BE PROPERLY MANAGED IN SUCH A MANNER THAT IT CANNOT ENTER A WATER OF THE STATE AND CAUSE A VIOLATION OF WATER QUALITY REQUIREMENTS. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
35.	ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY MANAGED IN SUCH A MANNER THAT IT CANNOT ENTER A WATER OF THE STATE. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
36.	EROSION SHALL BE MANAGED SO THAT SEDIMENT IS NOT DISCHARGED TO A WATER OF THE STATE IN A MANNER THAT CAUSES A VIOLATION OF WATER QUALITY REQUIREMENTS. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
37.	REVTMENT, CLASS E (RIPRAP), TREATED LUMBER PRODUCTS, AND TEMPORARY STRUCTURES SHALL CONSIST OF CLEAN MATERIAL FREE OF COATINGS OF POTENTIALLY HAZARDOUS SUBSTANCES. NO ASPHALT OR PETROLEUM-BASED MATERIAL SHALL BE USED AS OR INCLUDED IN MATERIAL PLACED IN ANY WATER OF THE STATE OR WITHIN THE HIGH-WATER TABLE. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
38.	STOCKPILED DREDGED MATERIALS ON THE SHORE SHALL BE MANAGED SO THAT SEDIMENT IS NOT DISCHARGED TO A WATER OF THE STATE IN A MANNER THAT CAUSES A VIOLATION OF WATER QUALITY REQUIREMENTS. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).
39.	HYDRAULICALLY DREDGED MATERIAL SHALL BE MANAGED TO ENSURE THE RETURN WATER MEETS WATER QUALITY REQUIREMENTS. THIS CONDITION WILL ENSURE PERMITTEES COMPLY WITH IOWA'S NARRATIVE WATER QUALITY STANDARDS FOUND AT 567 IAC 61.3(2).

REMOVAL/DEMOLITIONS NOTES	
1.	SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2.	CONTRACTOR SHALL OBTAIN PERMITS REQUIRED FOR DEMOLITION, REMOVAL AND DISPOSAL.
3.	CONTRACTOR SHALL REVIEW FEATURES NOT SPECIFICALLY IDENTIFIED ON PLAN FOR SALVAGE OR REMOVAL THAT CONFLICT WITH CONSTRUCTION WITH THE ENGINEER.
4.	MATERIALS REMOVED/DEMOLISHED BY CONTRACTOR BECOME PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL LOAD AND HAUL MATERIAL OFF-SITE AND PROPERLY DISPOSE OF MATERIALS IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTRACTOR MUST LEAVE THE SITE IN A CONDITION TO THE SATISFACTION OF THE OWNER AND ENGINEER.
5.	CONTRACTOR SHALL SAWCUT FULL DEPTH AT PAVEMENT REMOVAL LIMITS AND AS NECESSARY TO CREATE A SMOOTH FIT/TRANSITION ALONG MATCHING PAVEMENT AREAS.
6.	IN THE EVENT THAT UNKNOWN CONTAINERS, TANKS, CONTAMINATED SOILS, OR ARCHEOLOGICAL SITES ARE ENCOUNTERED, THE CONTRACTOR MUST STOP WORK AND CONTACT THE ENGINEER IMMEDIATELY. ALL CONTAINERS OR TANKS MUST BE DISPOSED OF PROPERLY AT A REGULATED/PERMITTED FACILITY.
7.	CONTRACTOR SHALL REVIEW ALL TREE REMOVALS WITH THE OWNER AND ENGINEER PRIOR TO REMOVAL OPERATIONS.
8.	CLEARING AND GRUBBING OPERATIONS MUST COMPLY WITH THE FOLLOWING: 8.1. PROTECT ALL TREES AND PLANTS NOT DESIGNATED FOR REMOVAL. 8.2. CONDUCT OPERATIONS IN SUCH A MANNER THAT DOES NOT DAMAGE PROTECTED TREES AND VEGETATION. 8.3. CUT, REMOVE, AND DISPOSE OF TREES, BRUSH, SHRUBS, WINDFALLS, LOGS, STUMPS, ROOTS, FALLEN TIMBER, AND OTHER VEGETATION. 8.4. BACKFILL DEPRESSIONS WITH NATIVE SOILS OR SUITABLE FILL MATERIAL AS REQUIRED BY DESIGN OR AS DIRECTED BY THE ENGINEER AND COMPACT BACKFILL AS DIRECTED. 8.5. DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE REGULATIONS. 8.6. CONSIDER BENEFICIAL USE DESIGNATIONS FOR UNADULTERATED WOOD, WOOD CHIPS, BARK AND SAWDUST.
9.	NO BURYING OF CLEARED AND GRUBBED WASTE WITHIN THE CONSTRUCTION LIMITS.
10.	ORIGINAL PLANS FOR THE DAM ARE NOT AVAILABLE. REINFORCEMENT LAYOUT/QUANTITY OF THE CONCRETE DAM IS UNKNOWN.
12.	THE CONTRACTOR SHALL VISIT THE SITE TO ASSESS THE WORK REQUIRED FOR REMOVAL OF EXISTING STRUCTURE.
13.	QUANTITIES FOR EXCAVATION, CLASS 13, CHANNEL AND REVETMENT, CLASS E MAY BE REDUCED IF BEDROCK IS ENCOUNTERED. REMOVAL OF BEDROCK IS NOT PROPOSED.
14.	CONCRETE FROM DAM REMOVAL DEEMED SUITABLE BY THE ENGINEER SHALL BE SALVAGED AND PLACED AS FILL TO SUPPLEMENT REVETMENT, CLASS E. SALVAGED CONCRETE SHALL BE COVERED WITH A MINIMUM OF 24" OF CLEAN REVETMENT, CLASS E. ALL EXPOSED REBAR IS TO BE CUT FLUSH WITH ALL SALVAGED DAM REMOVAL MATERIAL. UNSUITABLE SALVAGED MATERIAL OR EXCESS SALVAGED MATERIAL BECOME PROPERTY OF THE CONTRACTOR AND ARE SUBJECT TO NOTE 4 ABOVE.

TRAFFIC CONTROL NOTES	
1.	SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2.	CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING, ON OR OFFSITE, AS NECESSARY TO COMPLETE THE WORK. IF OFFSITE STAGING AREA IS REQUIRED, CONTRACTOR IS RESPONSIBLE TO FIND, OBTAIN, AND PAY FOR NECESSARY STAGING AREA AT NO ADDITIONAL COST TO THE OWNER. SUBMIT A STAGING PLAN TO THE ENGINEER FOR REVIEW BEFORE STARTING WORK.
3.	THE FOLLOWING TRAFFIC CONTROL NOTES IN COMBINATION WITH TRAFFIC CONTROL STANDARD ROAD PLANS TC-202 AND TC-252 AND THE TRAFFIC CONTROL PLAN ON SHEET J.1. SHALL BE USED FOR VEHICULAR TRAFFIC CONTROL THROUGHOUT THE PROJECT: 3.1. FOR TRAFFIC CONTROL ON 200TH STREET FOR THE CONSTRUCTION OF THE MIDWAY BOAT RAMP: 3.1.1. UTILIZE TC-202 FOR THE CONSTRUCTION OF THE SITE ACCESS ROAD CONNECTION TO INPLACE 200TH STREET. 3.1.2. UTILIZE SITUATION 1 OF TC-252 FOR THE CLOSURE OF THE SITE ACCESS ROAD. 3.1.3. INSTALL R11-2 SIGNS WITH TYPE III BARRICADES AT THE ENTRANCE TO THE SITE ACCESS ROAD TO INHIBIT 200TH STREET TRAFFIC FROM ENTERING CONSTRUCTION SITE. 3.2. FOR TRAFFIC CONTROL ON WEST SOUTH 1ST STREET FOR THE CONSTRUCTION OF THE ESTHERVILLE BOAT RAMP: 3.2.1. UTILIZE TC-202 FOR THE CONSTRUCTION OF THE SITE ACCESS ROAD CONNECTION TO THE INPLACE WEST SOUTH 1ST STREET. 3.2.2. UTILIZE SITUATION 1 ON TC-252 FOR THE CLOSURE OF THE SITE ACCESS ROAD. 3.2.3. INSTALL R11-2 SIGNS WITH TYPE III BARRICADES AT THE ENTRANCE TO THE SITE ACCESS ROAD TO BLOCK WEST SOUTH 1ST STREET TRAFFIC FROM ENTERING CONSTRUCTION SITE. 4. THE FOLLOWING PEDESTRIAN CONTROL NOTES IN COMBINATION WITH TRAFFIC CONTROL STANDARD TC-601, AND THE TRAFFIC CONTROL PLAN ON SHEET J.1 SHALL BE USED FOR PEDESTRIAN TRAFFIC THROUGHOUT THE PROJECT UNLESS APPROVED BY THE ENGINEER: 4.1. UTILIZE LAYOUT 1 ON TC-601 ON THE SIDEWALK OPPOSITE FROM WEST 2ND AVENUE SOUTH ALONG THE RIVER. INSTALL THE CLOSURE SIGN AT THE SOUTH END OF THE PLAYGROUND. 4.2. UTILIZE LAYOUT 1 ON TC-601 ON THE SIDEWALK ENTRANCE AT THE INTERSECTION OF VALLEY DRIVE AND WEST SOUTH 1ST STREET. INSTALL THE CLOSURE SIGN AT THE ENTRANCE ON WEST SOUTH 1ST STREET. 5. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL AND DETOURS. TRAFFIC CONTROL AND DETOURS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD, INCLUDING LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. PLANS MUST COMPLY WITH APPLICABLE PERMIT REQUIREMENTS. TRAFFIC CONTROL INCLUDES NECESSARY SIGNAGE AND MARKINGS FOR SIDEWALKS, TRAILS, ETC. CLOSURE. THIS MUST INCLUDE ADVANCED WARNING SIGNS AND NECESSARY FENCING AND SIGNAGE TO PREVENT PEDESTRIANS FROM ACCESSING THE PROPOSED AREA.

PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES	
1.	SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
2.	CONTRACTOR SHALL MAINTAIN STREET AND TRAFFIC SIGNS AT ALL TIMES DURING CONSTRUCTION.
3.	WHERE CONNECTING TO INPLACE ROADWAYS/PAVEMENT SECTIONS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE SURFACING OR TO THE BOTTOM OF THE NEW SURFACING DESIGN, WHICHEVER IS DEEPER, THEN AT A 1V:20H TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
4.	THE CONTRACTOR SHALL HAVE A MINIMUM OF 2 PEOPLE WITH CURRENT ACI CONCRETE FLATWORK TECHNICIAN OR FLATWORK FINISHER CERTIFICATION, AND AT LEAST ONE OF THEM MUST BE ONSITE FOR ALL CONCRETE POURS.
5.	PROTECT CONCRETE PAVING FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR. MAINTAIN CONCRETE FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIALS. SWEEP PAVING NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS. REPAIR OR REPLACE STAINED CONCRETE TO THE SATISFACTION OF THE OWNER AT NO COST TO THE OWNER.



3325 S TIMBERLINE RD
FORT COLLINS, CO 80525
www.stantec.com

GENERAL INFORMATION

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE

IOWA

DATE OF ISSUANCE		
JUNE 16, 2026		
NO	REVISION	DATE
1	PRELIMINARY	02/17/2026
2	CHECK	04/07/2026
3	FINAL	06/16/2026
SURVEY	JACOBSON WESTGARD ASSOC.	
DRAWN	LI & MF	
DESIGNED	MW & PP	
CHECKED	PM	
APPROVED	PP	
PROJ. NO.	20372501	20372501
SHEET NUMBER		
C.3		

Plot Date: 06/16/2026 - 11:12am
Drawing name: C:\Users\jennings\Documents\stntec consulting\20372501 - estherville_bat_ramp\project files\cad\sheet_files\COVER.dwg
Xref: TITLE BLOCK

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS MADE BY THE CONTRACTOR OR USER FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC. IS PROVIDED.

EROSION CONTROL NOTES	
1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION. 2. BEFORE SITE DISTURBANCE AND AS REQUIRED AS CONSTRUCTION PROGRESSES, CONTRACTOR SHALL INSTALL, MAINTAIN, REPAIR, AND REPLACE EROSION PREVENTION MEASURES AND SEDIMENT CONTROL DEVICES (INLET PROTECTION, CONSTRUCTION ENTRANCE, SILT FENCE, EROSION CONTROL BLANKET, ETC.) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL PERMITS. 3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION. COORDINATE WITH ENGINEER. 4. CONTRACTOR SHALL STABILIZE ALL EXPOSED SOIL AREAS WITHIN THE CONSTRUCTION LIMITS WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE THAT HAS TEMPORARILY (WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS) OR PERMANENTLY CEASED. STABILIZATION MUST BE INITIATED PROMPTLY. 5. ALL DISTURBED PERVIOUS AREAS ARE TO RECEIVE 6 INCHES OF SALVAGED TOPSOIL, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SALVAGE TOPSOIL BEFORE GRADING, AND STOCKPILE FOR RESPREADING. 6. CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT HAS TRACKED ONTO PAVED SURFACES BOTH ON AND OFFSITE WITHIN 24 HOURS AND AS DIRECTED BY CITY, OWNER, ENGINEER. SWEEP STREET IN ACCORDANCE WITH CITY, COUNTY, AND STATE REQUIREMENTS. 7. CONTRACTOR SHALL COMPLETE CONCRETE WASH-OUT OFF-SITE OR PROVIDE SELF-CONTAINED CONCRETE READY MIX TRUCKS. 8. CONTRACTOR SHALL MINIMIZE DUST FROM CONSTRUCTION OPERATIONS BY PROVIDING WATER OR OTHER APPROVED METHOD ON A DAILY BASIS. 9. CONTRACTOR SHALL PHASE GRADING WORK TO MINIMIZE THE DURATION THAT DISTURBED SOIL IS EXPOSED. 10. CONTRACTOR SHALL PROVIDE/INSTALL DIVERSION DITCHES, SEDIMENT BASINS, AND OTHER EROSION PROTECTION/SEDIMENT CONTROL MEASURES AS NECESSARY DURING INTERIM PROJECT CONDITIONS (NOT SHOWN ON PLANS) TO MANAGE/DIVERT STORM WATER AWAY FROM SITE FEATURES AND CONTROL EROSION/SEDIMENT. CONTRACTOR SHALL ADJUST MEASURES AS NECESSARY THROUGHOUT PROJECT PHASING. 11. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES AFTER SITE HAS BEEN STABILIZED AND VEGETATION IS ESTABLISHED AS DIRECTED BY ENGINEER. EROSION CONTROL MEASURES USED FOR CONSTRUCTION MUST NOT BE REMOVED UNTIL AUTHORIZED BY OWNER OR ENGINEER.	AREA TO BE DISTURBED: ESTHERVILLE = 1.4 AC MIDWAY = 1.1 AC
TREE PROTECTION NOTES	
1. CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE NOT TO BE REMOVED BY INSTALLING FENCE, SAFETY. FENCE, SAFETY SHALL BE ORANGE MESH FENCING 4 FEET HIGH WITH STAKES EVERY 10 FEET AND INSTALLED 5 FEET OUTSIDE OF THE DRIP LINE OF PROTECTED TREES, OR AT THE CONSTRUCTION LIMITS. DO NOT PERFORM ACTIONS WITHIN THE PROTECTED AREA THAT MAY HARM THE TREE AND COMPACT THE SOIL, INCLUDING EXCAVATION, STORING MATERIALS, PARKING AND TRAFFIC DURING CONSTRUCTION. WHERE CONSTRUCTION REQUIRES DISTURBANCE WITHIN THE PROTECTED AREAS, DISTURB THE ROOT ZONE AS LITTLE AS POSSIBLE. 2. TREE PROTECTION MEASURES/FENCING MUST BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION AND MUST BE REVIEWED BY OWNER AND ENGINEER BEFORE STARTING CONSTRUCTION. 3. WHEN TREE ROOTS ARE ENCOUNTERED THAT MUST BE REMOVED, CONTRACTOR SHALL CUT ROOTS CLEANLY AS FAR FROM THE TREE AS POSSIBLE AND IMMEDIATELY WATER AND BACKFILL OVER THE ROOTS TO PREVENT DRYING.	
GRADING NOTES	
1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION. 2. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE, UNLESS NOTED OTHERWISE. 3. THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. EXCESS MATERIAL, UNLESS NOTED OTHERWISE, IS THE PROPERTY OF THE CONTRACTOR AND IS TO BE MOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE LAWS. 4. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AND ENSURE NO PONDING IN PAVED AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF GRADING DISCREPANCIES ARE FOUND IN EXISTING OR PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT. OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING BEFORE PLACEMENT OF PAVEMENT TO ENSURE DRAINAGE IS ADEQUATE TO INTENDED AREA. 5. CONTRACTOR SHALL BACKFILL SUBGRADE AND TRENCH EXCAVATIONS PROMPTLY AFTER EXCAVATION TO HELP WITH PUBLIC SAFETY AND ACCESS TO DRIVEWAYS. 6. EXISTING TOPSOIL ON SITE VARIES IN DEPTH. CONTRACTOR SHALL REMOVE SURFACE VEGETATION AND TOPSOIL AND OTHER LOOSE, SOFT OR OTHERWISE UNSUITABLE MATERIAL FROM THE IMPERVIOUS AREAS AND OTHER AREAS AS DIRECTED BY THE ENGINEER BEFORE PLACEMENT OF SUITABLE FILL MATERIAL. 7. CONTRACTOR SHALL EXCAVATE AND DISPOSE OF UNSUITABLE OR CONTAMINATED SOILS DISCOVERED ONSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND AS DIRECTED BY ENGINEER. 8. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADING/COMPACTION REQUIREMENTS OUTLINED IN THE SPECIFICATIONS FOR THE PROJECT. 9. CONTRACTOR SHALL CONSTRUCT/GRADE SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS IN ACCORDANCE WITH CURRENT ADA STATE AND NATIONAL STANDARDS. NOTIFY ENGINEER IN WRITING IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION. 10. EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY OF ANY FIELD DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR MAKING NECESSARY ADJUSTMENTS IN THE FIELD FOR CONSTRUCTABILITY, REGULATORY COMPLIANCE (ADA), POSITIVE DRAINAGE, AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF A DISCREPANCY THAT IS NOT COMMUNICATED TO THE ENGINEER IN WRITING AT NO ADDITIONAL COST TO THE OWNER.	

UTILITY CONTACTS	
ESTHERVILLE SITE	MIDWAY SITE
ONE CALL 1-800-292-8989 INTERNET, CABLE, TELEPHONE: CENTURYLINK 3901 WESTOWN PARKWAY WEST DES MOINES, IA, 50266 (855) 263-9576 STORM AND SANITARY SEWER CITY OF ESTHERVILLE 620 1ST AVE SOUTH ESTHERVILLE, IA 51332 1-712-362-7771 GAS BLACK HILLS ENERGY 225 COMMERCE DRIVE WEBSTER CITY, IA 50595 (888) 890-5554 ELECTRIC: CITY OF ESTHERVILLE 2 NORTH 7TH STREET ESTHERVILLE, IA 51334 (712) 362-7771 TRAFFIC: EMMET COUNTY ENGINEERS OFFICE 609 1ST AVENUE NORTH SUITE #4 ESTHERVILLE, IA 51334 (712) 362-4846	ONE CALL 1-800-292-8989 INTERNET, CABLE, TELEPHONE: CENTURYLINK 3901 WESTOWN PARKWAY WEST DES MOINES, IA, 50266 (855) 263-9576 STORM AND SANITARY SEWER CITY OF ESTHERVILLE 620 1ST AVE SOUTH ESTHERVILLE, IA 51332 1-712-362-7771 GAS BLACK HILLS ENERGY 225 COMMERCE DRIVE WEBSTER CITY, IA 50595 (888) 890-5554 ELECTRIC: IOWA LAKES ELECTRIC COOPERATIVE 702 SOUTH 1ST ST ESTHERVILLE, IA 51334 1-800-225-4532 TRAFFIC: EMMET COUNTY ENGINEERS OFFICE 609 1ST AVENUE NORTH SUITE #4 ESTHERVILLE, IA 51334 (712) 362-4846



GENERAL INFORMATION

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE

IOWA

DATE OF ISSUANCE		
JUNE 16, 2026		
NO	REVISION	DATE
1	PRELIMINARY	02/17/2026
2	CHECK	04/07/2026
3	FINAL	06/16/2026
SURVEY		JACOBSON WESTGARD ASSOC.
DRAWN		LJ & MF
DESIGNED		MW & PP
CHECKED		PM
APPROVED		PP
PROJ. NO.		2037248995 203725001

C.4

Plot Date: 06/16/2026 - 11:12am
Drawing name: C:\Users\jennings\Documents\stantec consulting\203725001 estherville\boat_ramp\project files\cad\sheet files\EX CONDITIONS_OVERVIEW.dwg
Xrefs: External: B:\Info\Drawings\Profiles - corridors.dwg, 13226502 ESTHERVILLE (A Survey) TITLE BLOCK



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EX. CONDITIONS AND REMOVALS - OVERVIEW

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE	
JUNE 16, 2026	
NO	REVISION DATE
1	PRELIMINARY 02/17/2026
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3	FINAL 06/16/2026
SURVEY JACOBSON WESTGAARD ASSOC.	
DRAWN LJ & MF	
DESIGNED MW & PP	
CHECKED PM	
APPROVED PP	
PROJ. NO.	203725001
SHEET NUMBER	
D.1	



ESTHERVILLE, IOWA

IOWA DOT PROJECT #: NRT-2417(610)--9G-32



EX. CONDITIONS AND REMOVALS - MIDWAY
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE	
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NO	REVISION DATE
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DRAWN LJ & MF	
DESIGNED MW & PP	
CHECKED PM	
APPROVED PP	
PROJ. NO. 203725001	
SHEET NUMBER	
D.2	

NOTES

1. WETLAND BOUNDARY PER OTHERS.
2. REMOVE ALL TREES AND BRUSH WITHIN PROPOSED GRADING BOUNDARY INCLUDING ANY TREES NOT INCLUDED WITHIN SURVEY.
3. ESTIMATED TREES TO REMOVE IS 34.
4. COORDINATE REMOVALS WITH OWNER PRIOR TO CONSTRUCTION.
5. BMPS AS SHOWN ON SHEET RR.2 TO BE INSTALLED PRIOR TO COMMENCEMENT OF REMOVALS.

SURVEY CONTROL POINTS

Control Point #	Easting	Northing	Elevation
600	4577891.380	3959887.042	1252.802
601	4577685.062	3959878.608	1254.993
602	4577823.289	3959539.167	1244.067

LEGEND

- CONSTRUCTION LIMITS
- FEMA FLOODWAY LINE
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING GUARD RAIL
- EXISTING RETAINING WALL LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING STORM SEWER
- EXISTING OVERHEAD UTILITY LINE
- EXISTING WETLAND
- EXISTING GRAVEL
- EXISTING CONCRETE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING FLARED END SECTION
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING DECIDUOUS TREE
- EXISTING LIGHT POLE
- EXISTING ELECTRIC BOX
- SURVEY CONTROL POINT
- APPROXIMATE EDGE OF WATER
- FENCE, SAFETY
- REMOVAL OF EXISTING STRUCTURES
- REMOVAL OF PAVEMENT (CONCRETE)
- EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS
- TOPSOIL, STRIP, SALVAGE AND SPREAD
- REMOVAL OF EXISTING GRAVEL INCIDENTAL TO EXCAVATION, CLASS 13, ROADWAY AND BORROW
- REMOVAL OF TREE (PAID AS CLEARING AND GRUBBING)



0 15' 30'



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IOWA DOT PROJECT #: NRT-2417(610)--9G-32

NORTH LINE NW 1/4

BRIDGE

200TH STREET

TREE PROTECTION (SEE DETAIL 15 SHEET B.3) - INCIDENTAL TO CLEARING AND GRUBBING

TREE PROTECTION (SEE DETAIL 16 SHEET B.3) - INCIDENTAL TO CLEARING AND GRUBBING

OWNER: EMMET COUNTY WATER TRAIL ASSOCIATION

OWNER: CORY AND SHANNON JUNG JOHAN

ESTHERVILLE, IOWA

Plot Date: 06/16/2026 - 11:12am
Drawing name: C:\Users\jennings\Documents\stantec consulting\203725001 estherville\dwg\project files\cd\sheet files\EX. CONDITIONS AND REMOVALS.dwg
System: TITLE BLOCK: 12308502 ESTHERVILLE.dwg
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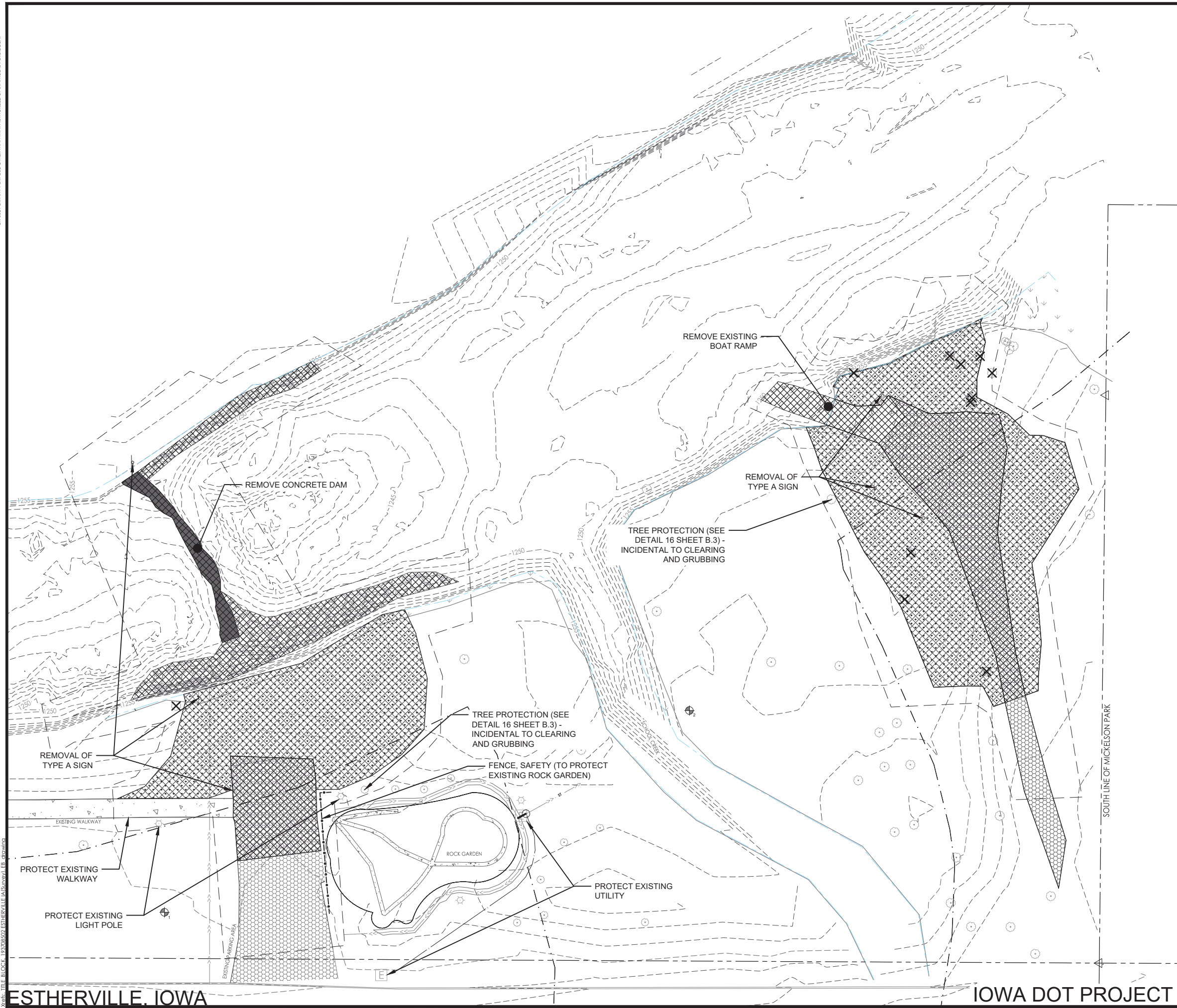
EX. CONDITIONS AND REMOVALS - ESTHERVILLE

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE

DATE OF ISSUANCE	
JUNE 16, 2026	
REVISION	DATE
PRELIMINARY	02/17/2026
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FINAL	06/16/2026
APPROVED BY:	JACOBSON WESTGARD ASSOC.
DRAWN	LJ & MIF
DESIGNED	MW & PP
CHECKED	PM
APPROVED PP	
O.J. NO.	203724995 203725001
SHEET NUMBER	
D.3	

Plot Date: 06/16/2024 - 11:30am
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Xrefs: TITLE BLOCK: 193708502 ESTHERVILLE (ASurvey).EB, drawing



1. WETLAND BOUNDARY PER OTHERS.
2. REMOVE ALL TREES AND BRUSH WITHIN PROPOSED GRADING BOUNDARY INCLUDING ANY TREES NOT INCLUDED WITHIN SURVEY.
3. ESTIMATED TREES TO REMOVE IS 11.
4. COORDINATE REMOVALS WITH OWNER PRIOR TO CONSTRUCTION.
5. BMPS AS SHOWN ON SHEET RR.3 TO BE INSTALLED PRIOR TO COMMENCEMENT OF REMOVALS.

Survey Benchmark #	Easting	Northing	Elevation
1	4563420.084	3975630.609	1260.16
2	4563525.693	3975355.965	1258.89

	CONSTRUCTION LIMITS
	FEMA FLOODWAY LINE
	LOT LINE
	RIGHT OF WAY LINE
	EXISTING GUARD RAIL
	EXISTING RETAINING WALL LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING STORM SEWER
	EXISTING OVERHEAD UTILITY LINE
	EXISTING WETLAND
	EXISTING GRAVEL
	EXISTING CONCRETE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING FLARED END SECTION
	EXISTING SIGN
	EXISTING UTILITY POLE
	EXISTING DECIDUOUS TREE
	EXISTING LIGHT POLE
	EXISTING ELECTRIC BOX
	SURVEY BENCHMARK
	APPROXIMATE EDGE OF WATER
	FENCE, SAFETY
	REMOVAL OF EXISTING STRUCTURES
	REMOVAL OF PAVEMENT (CONCRETE)
	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS
	TOPSOIL, STRIP, SALVAGE AND SPREAD
	REMOVAL OF EXISTING GRAVEL INCIDENTAL TO EXCAVATION, CLASS 13, ROADWAY AND BORROW
	REMOVAL OF TREE (PAID AS CLEARING AND GRUBBING)



IOWA DOT PROJECT #: NRT-2417(610)--9G-32

Plot Date: 06/16/2026 - 11:13am
Drawing name: C:\Users\jennings\Documents\stntec consulting\203725001_ estherville\boat_ramp\project files\cad\sheet_files\SITE_PLAN_OVERVIEW.dwg
Xrefs: TITLE BLOCK

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SITE PLAN - OVERVIEW
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE	
JUNE 16, 2026	
NO	REVISION DATE
1	PRELIMINARY 02/17/2026
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3	FINAL 06/16/2026
SURVEY	JACOBSON WESTGARD ASSOC.
DRAWN	LI & MF
DESIGNED	MW & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203725001
SHEET NUMBER	
D.4	



IOWA DOT PROJECT #: NRT-2417(610)--9G-32



SITE PLAN - MIDWAY
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

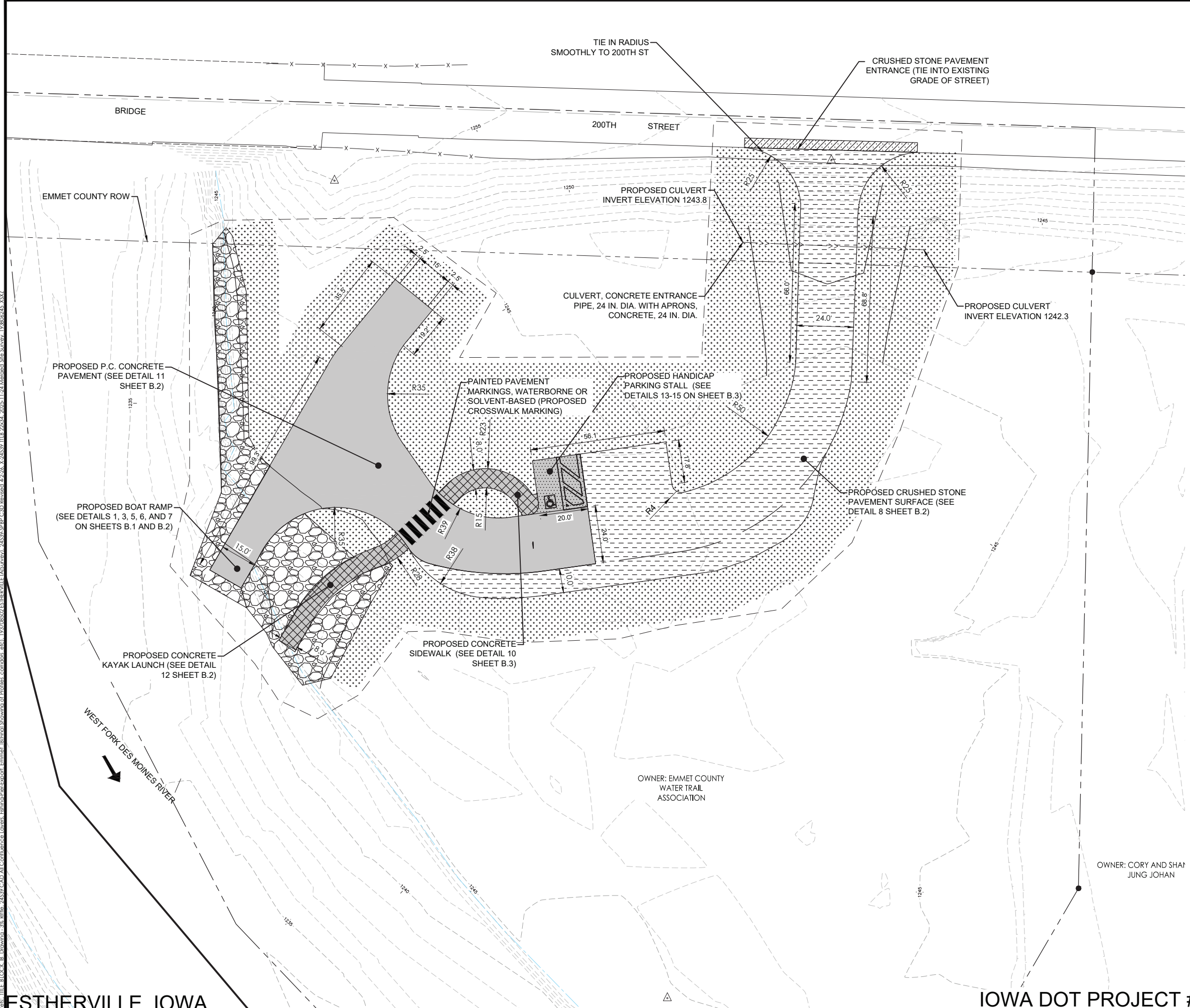
DATE OF ISSUANCE	
JUNE 16, 2026	
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1	PRELIMINARY 02/17/2026
2	CHECK 04/07/2026
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DESIGNED MW & PP	
CHECKED PM	
APPROVED PP	
PROJ. NO. 203725001	
SHEET NUMBER D.5	

NOTES

1. ADJUSTMENT OF POWERLINE HEIGHT MAY BE NECESSARY AFTER DETERMINING FINAL GRADE OF ENTRYWAY.
2. GRAVEL DRIVEWAY SHOULD TIE INTO GRADE OF 200TH AVE.
3. SEE DETAILS 13, 14, AND 15 ON B.3 FOR HANDICAP DETAILS.
4. POURED SURFACE SHOULD TIE INTO NEIGHBORING GRAVEL SURFACE.
5. PAVEMENT USE QUARTER POINT JOINTING AS DETAILED ON B.2. NO CURB WILL BE PRESENT ON PAVEMENT.

LEGEND

- CONSTRUCTION LIMITS
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING GUARD RAIL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- APPROXIMATE EDGE OF WATER
- EXISTING GRAVEL
- SIDEWALK, P.C. CONCRETE, 6 IN.
- SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN.
- DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN.
- DRIVEWAY, P.C. CONCRETE, 6 IN.
- NATIVE GRASS SEEDING
- WETLAND GRASS SEEDING
- REVTMENT, CLASS "E"
- SURFACING, DRIVEWAY, CLASS "A"
- CRUSHED STONE
- REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA



ESTHERVILLE, IOWA

IOWA DOT PROJECT #: NRT-2417(610)--9G-32

Plot Date: 06/16/2026 - 11:14am
Drawing name: C:\Users\jennings\Documents\stntec consulting\203725001 estherville boat ramp\project files\cad\sheet files\SITE PLAN.dwg
User: JENNINGS, JEFFREY
Title: D.5 SITE PLAN
Scale: 1/8\"/>

SITE PLAN - ESTHERVILLE

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

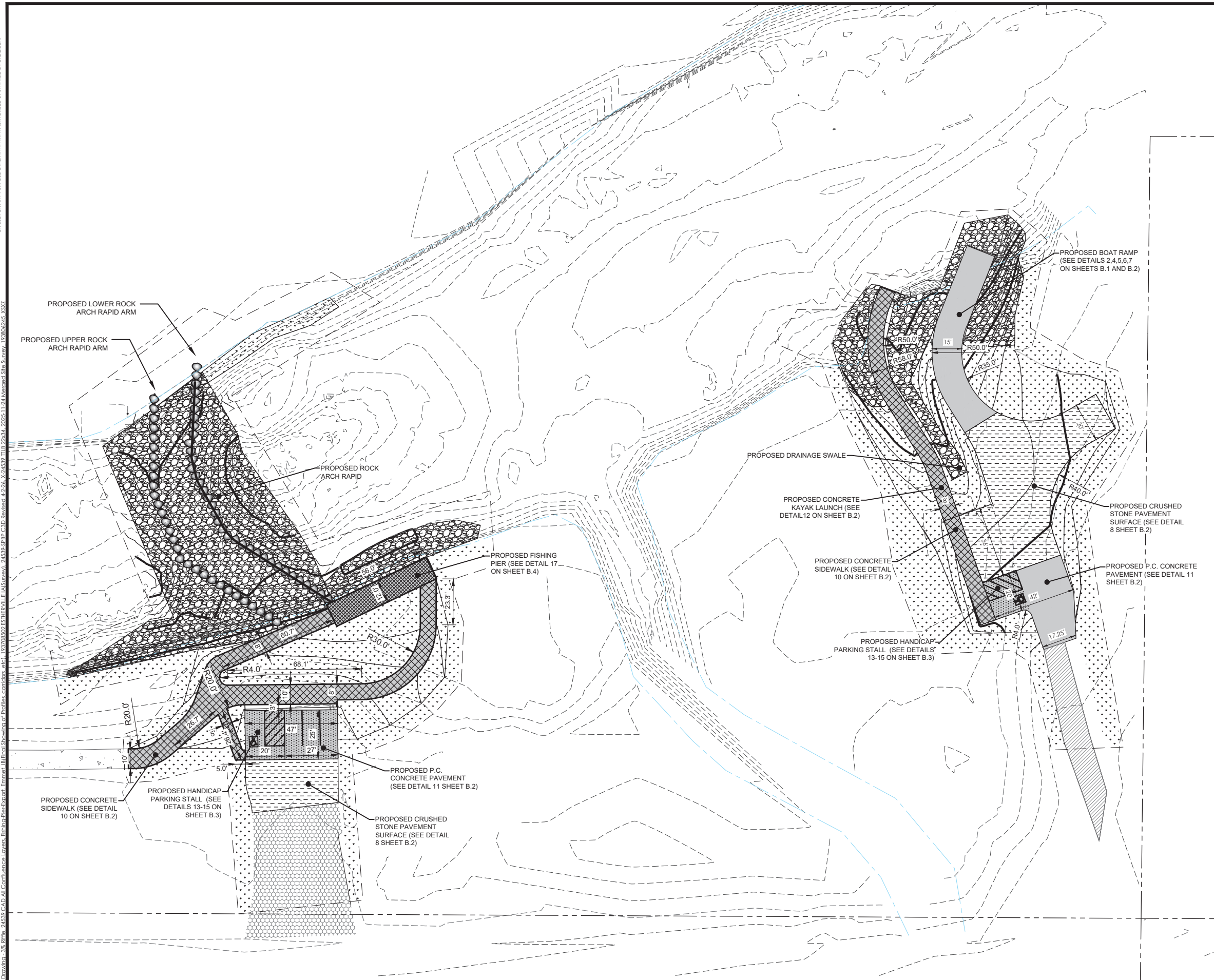
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JUNE 16, 2026	
NO	REVISION DATE
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2	CHECK 04/07/2026
3	FINAL 06/16/2026
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DRAWN	LI & MF
DESIGNED	MM & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203724995 / 203725001
SHEET NUMBER	
D.6	

NOTES

1. POURED SURFACE SHOULD TIE INTO NEIGHBORING GRAVEL SURFACE.
2. SEE DETAILS 13, 14, AND 15 ON B.3 FOR HANDICAP DETAILS.
3. PAVEMENT USE QUARTER POINT JOINTING AS DETAILED ON B.2. NO CURB WILL BE PRESENT ON PAVEMENT.

LEGEND

- | | |
|---|---|
|  | CONSTRUCTION LIMITS |
|  | LOT LINE |
|  | RIGHT OF WAY LINE |
|  | EXISTING MINOR CONTOUR |
|  | EXISTING MAJOR CONTOUR |
|  | APPROXIMATE EDGE OF WATER |
|  | EXISTING GRAVEL |
|  | SIDEWALK, P.C. CONCRETE, 6 IN. |
|  | SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN. |
|  | DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN. |
|  | DRIVEWAY, P.C. CONCRETE, 6 IN. |
|  | NATIVE GRASS SEEDING |
|  | WETLAND GRASS SEEDING |
|  | REVTMENT, CLASS "E" |
|  | SURFACING, DRIVEWAY, CLASS "A" CRUSHED STONE |
|  | REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA |



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Plot Date: 06/16/2026 - 11:14am
Drawing name: C:\Users\jennings\OneDrive\Documents\stantec consulting\203725001_ estherville\boat_ramp\project files\cad\sheet_files\GRADING_PAN_OVERVIEW.dwg
xrefs: TITLE BLOCK



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GRADING PLAN - OVERVIEW
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

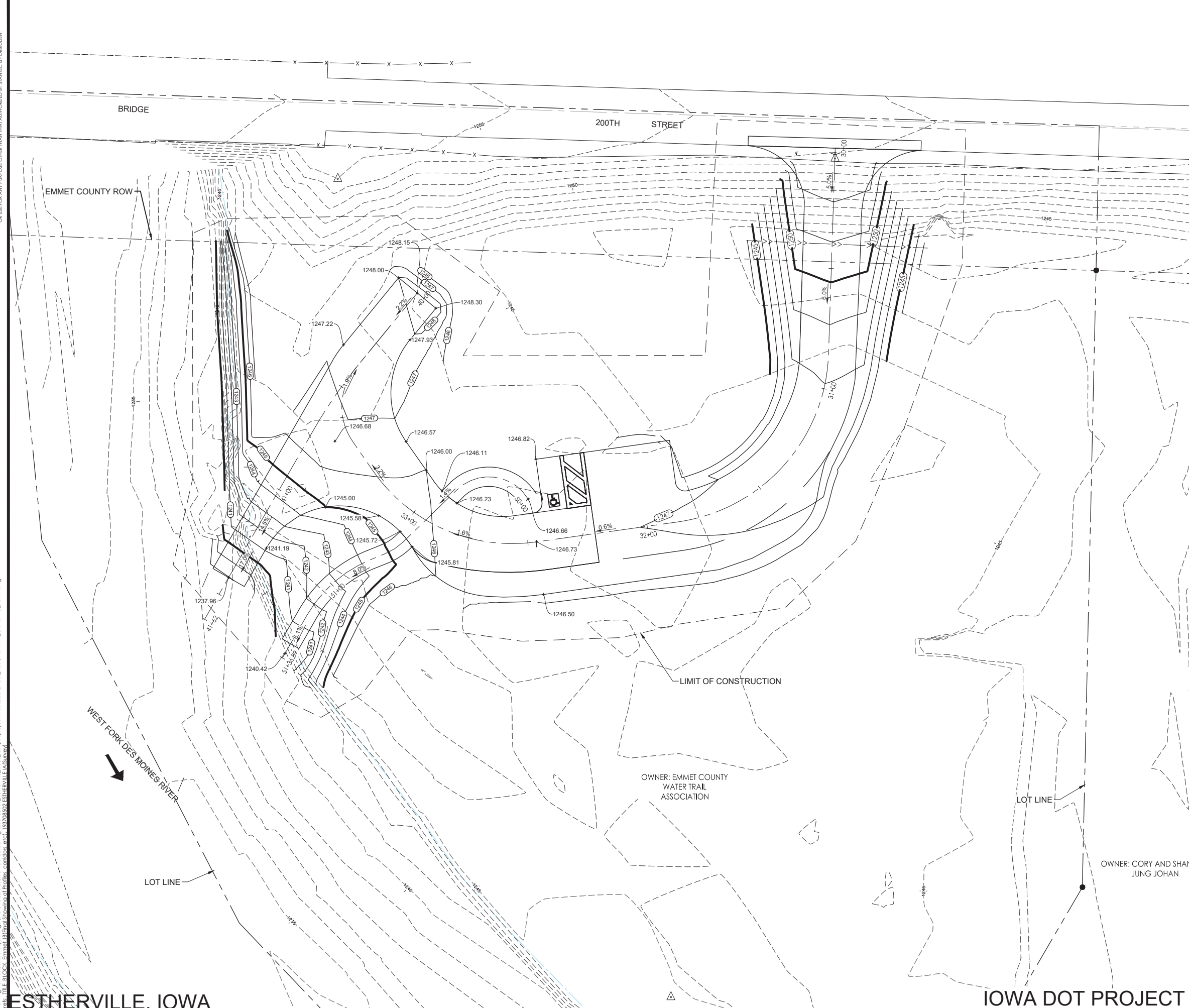
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JUNE 16, 2026	
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1	PRELIMINARY 02/17/2026
2	CHECK 04/07/2026
3	FINAL 06/16/2026
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Plot Date: 06/16/2026 - 11:14am
Drawing name: C:\Users\jennings\Documents\stantec consulting\203725001 estherville boat ramp\project files\cad\sheet files\midway grading plan.dwg
xrefs: title block, Emmet County Association of Profiles, contours, etc. 192708502 ESTHERVILLE (A Survey)



NOTES

1. ALL DISTURBED PERVIOUS AREAS SHALL BE COVERED WITH 6-INCHES OF SALVAGED TOPSOIL AND WITH WETLAND GRASS SEEDING PER IOWA DOT SPECIFICATION SECTIONS 2601 AND 9010.

LEGEND

- CONSTRUCTION LIMITS
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING GUARD RAIL
- APPROXIMATE EDGE OF WATER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- REVETMENT, SPECIAL

N

0 20' 40'

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GRADING PLAN - MIDWAY

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

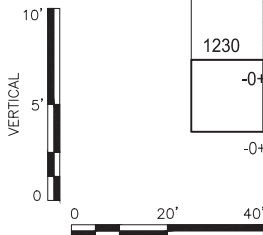
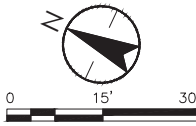
CITY OF ESTHERVILLE

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APPROVED PP	
PROJ. NO. 203725001	
SHEET NUMBER	
D.8	

IOWA DOT PROJECT #: NRT-2417(610)--9G-32

ESTHERVILLE, IOWA



ESTHERVILLE, IOWA

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PLAN AND PROFILE ESTHERVILLE - RAR

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE

IOWA

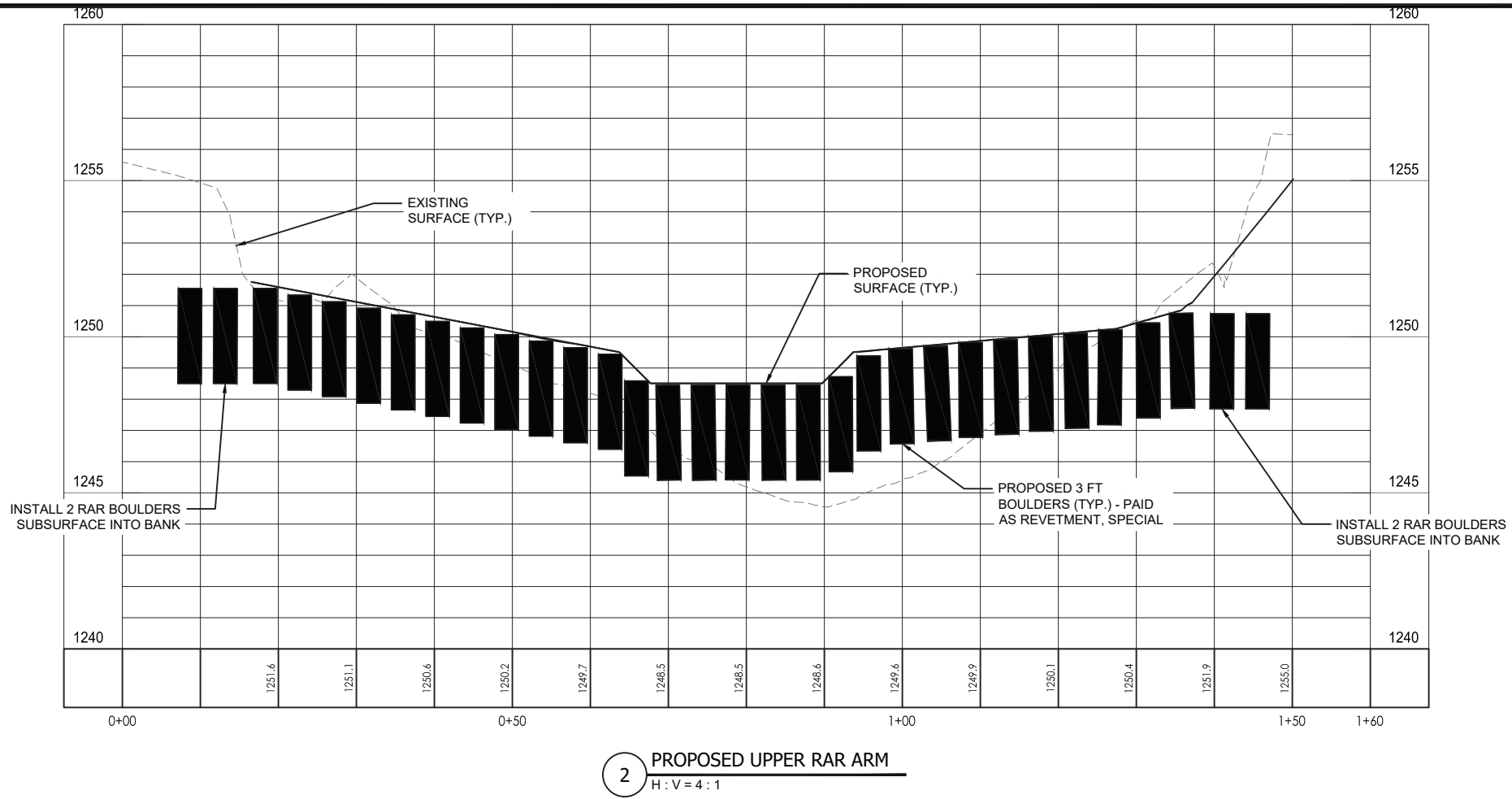
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JUNE 16, 2026	
NO	REVISION DATE
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2	CHECK 04/07/2026
3	FINAL 06/16/2026
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DRAWN	LJ & MF
DESIGNED	MW & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	2037244995 203725001
SHEET NUMBER	
D.10	

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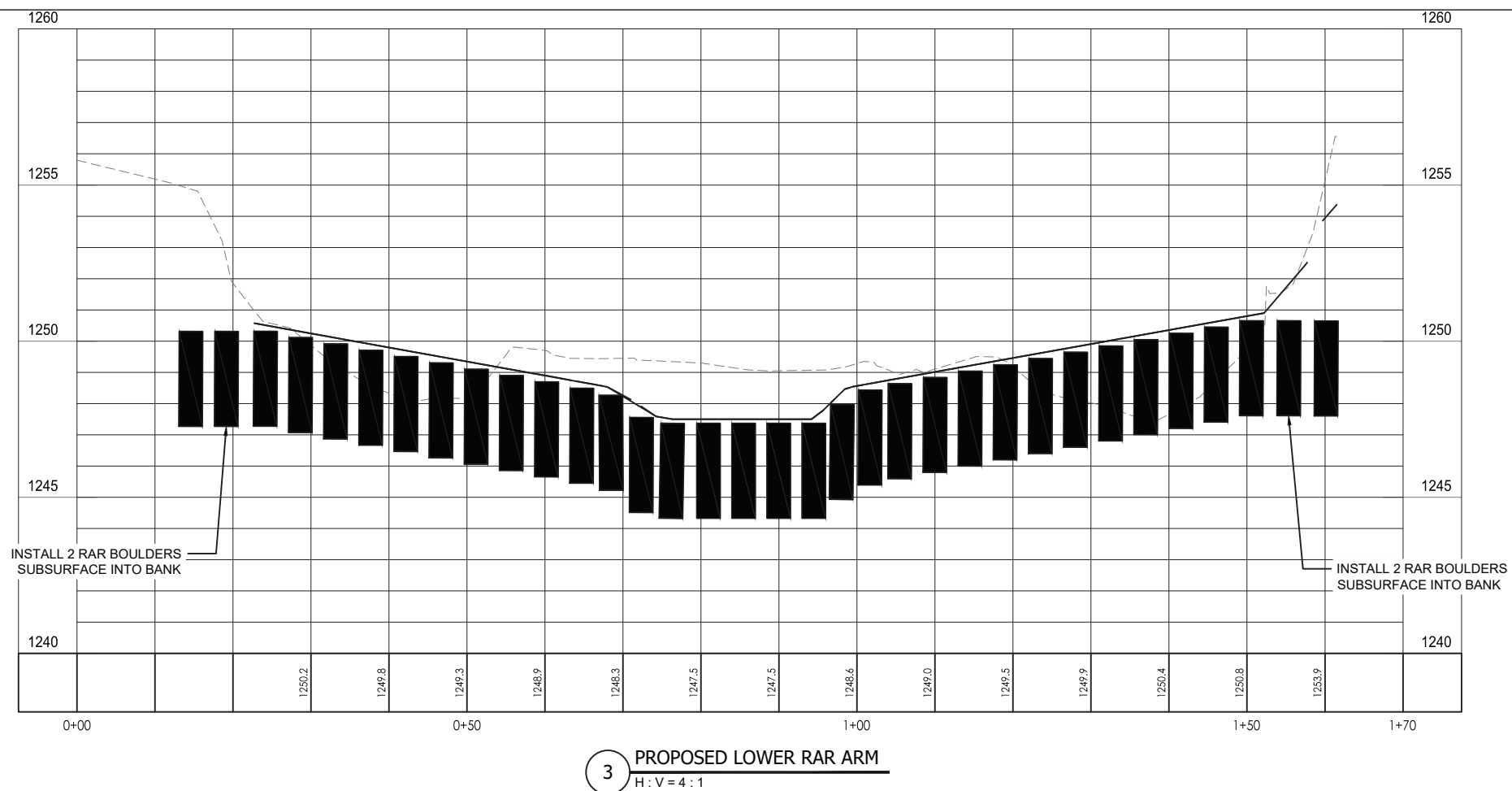


CROSS-SECTIONS ESTHERVILLE - RAR ARMS
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

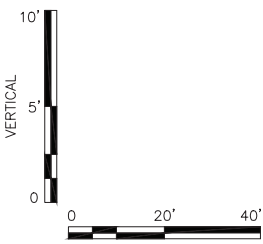
DATE OF ISSUANCE	
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NO	REVISION DATE
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3	FINAL 06/16/2026
SURVEY JACOBSON WESTGARD ASSOC.	
DRAWN LJ & MF	
DESIGNED MW & PP	
CHECKED PM	
APPROVED PP	
PROJ. NO. 203725001	
SHEET NUMBER D.11	



2 PROPOSED UPPER RAR ARM
H : V = 4 : 1



3 PROPOSED LOWER RAR ARM
H : V = 4 : 1



ESTHERVILLE, IOWA

IOWA DOT PROJECT #: NRT-2417(610)--9G-32





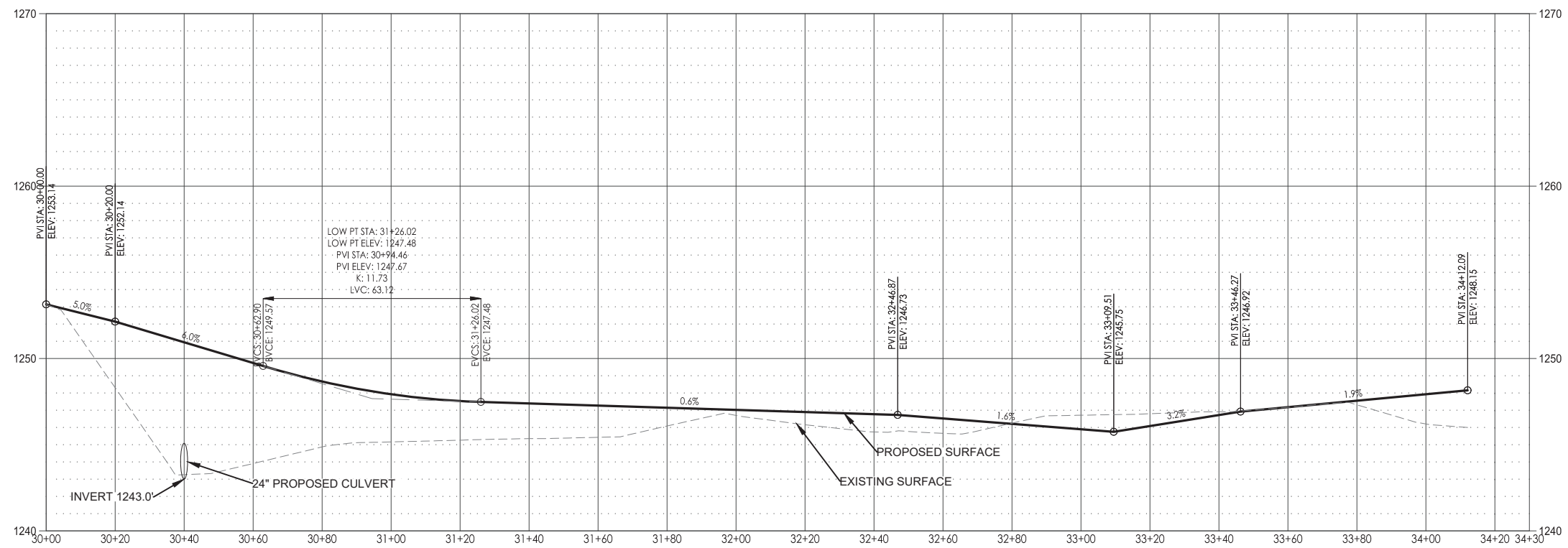
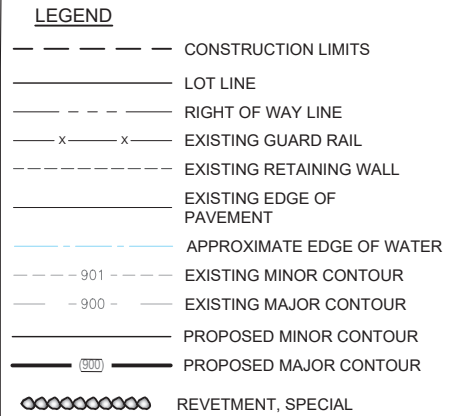
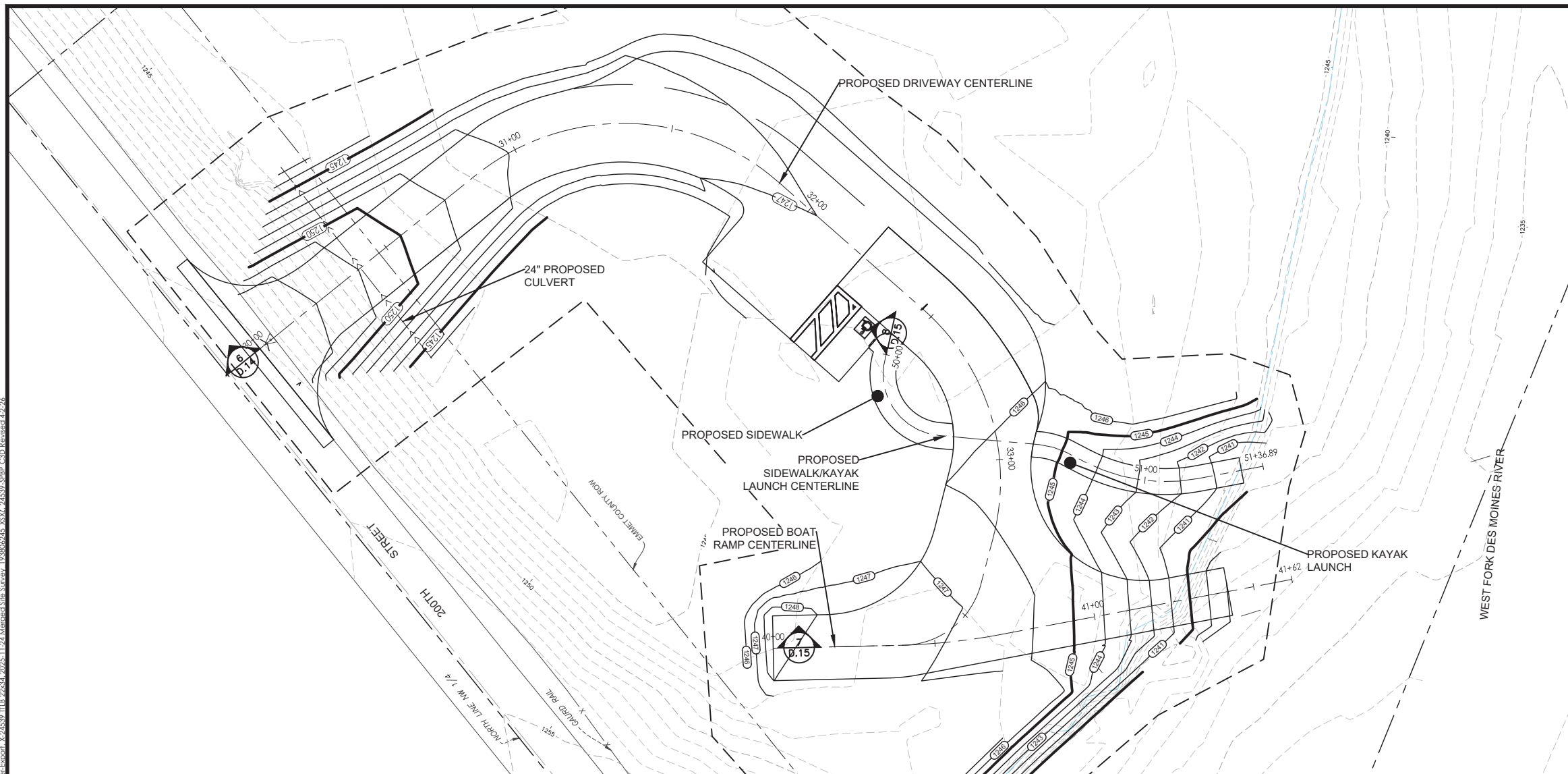
D.13



IOWA DOT PROJECT #: NRT-2417(610)--9G-32

5 PROPOSED ESTHERVILLE BOAT RAMP
H : V = 2.5 : 1

ESTHERVILLE, IOWA



ESTHERVILLE, IOWA

6 PROPOSED DRIVE WAY PROFILE
H : V = 2.5 : 1

IOWA DOT PROJECT #: NRT-2417(610)--9G-32



PLAN AND PROFILE MIDWAY - DRIVEWAY

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE		
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NO	REVISION	DATE
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3	FINAL	06/18/2026
SURVEY	JACOBSON WESTGARD ASSOC.	
DRAWN	LJ & MF	
DESIGNED	MW & PP	
CHECKED	PMA	
APPROVED	PP	
PROJ. NO.	203724995 203725001	

SHEET NUMBER
D.14



DATE OF ISSUANCE	
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DRAWN	LJ & MF
DESIGNED	MW & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203724995 203725001



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Plot Date: 06/14/2026 - 11:18am
Drawing name: C:\Users\jennings\Documents\203725001_estherville_bod_ramp\project_files\cad\sheet_files\TRAFFIC CONTROL PLAN.dwg
xrefs: 22720693_XSNO.dwg, TITLE BLOCK

108-23A
8/15/22

TRAFFIC CONTROL PLAN

ROAD SEGMENTS (WEST SOUTH 1ST STREET AND 200TH STREET) ADJACENT TO WORK BEING PERFORMED SHALL REMAIN OPEN TO VEHICULAR TRAFFIC. PARKING AREA AND SIDEWALK SEGMENTS WHERE WORK IS BEING PERFORMED SHALL BE CLOSED TO ALL VEHICULAR AND PEDESTRIAN TRAFFIC AND APPROPRIATE SIGNING SHALL BE INSTALLED. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," CURRENT EDITION, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE PROPOSED SIGNING MAY BE MODIFIED TO MEET FIELD CONDITIONS, TO PREVENT OBSTRUCTIONS, AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL BY THE ENGINEER.

THE BID ITEM "TRAFFIC CONTROL" SHALL INCLUDE THE COST OF ALL TRAFFIC CONTROL INSTALLED BY THE CONTRACTOR.

CONTRACTOR SHALL PROVIDE SUFFICIENT NUMBER OF TYPE III BARRICADES AND SAFETY FENCE AS REQUIRED FOR ROAD AND SIDEWALK CLOSURES AND MUST BE APPROVED BY THE ENGINEER. REFER TO STANDARD ROAD PLANS.

THE CONTRACTOR SHALL MAINTAIN CLEAN PAVEMENT IN AND OUT OF THE WORK AREA AT ALL TIMES.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER OF ALL CLOSURES ONE (1) WEEK PRIOR TO CLOSURE.

CONTRACTOR TO PROVIDE A 24-HOUR PHONE NUMBER FOR TRAFFIC CONTROL PRIOR TO THE START OF CONSTRUCTION. ANY ISSUES THAT ARISE WITH THE TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE DIRECTED TO THE 24-HOUR PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE. THE PROJECT SITE MUST BE PATROLLED A MINIMUM OF TWO (2) TIMES EACH 24-HOUR PERIOD TO CHECK AND REINSTALL, IF NECESSARY, TRAFFIC CONTROL DEVICES. ALL EXTRA STANDARD TRAFFIC CONTROL, SIGNS, BARRICADES, CONES, ETC. THAT ARE REQUIRED WILL BE DELIVERED AND INSTALLED AT THE PROJECT STIE WITHIN FOUR (4) HOURS OF NOTIFICATION, INCLUDING WEEKENDS AND HOLIDAYS AT NO COST TO THE OWNER.



TRAFFIC CONTROL PLAN

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE

IOWA

DATE OF ISSUANCE	
JUNE 16, 2026	
NO	REVISION DATE
1	PRELIMINARY 02/17/2024
2	CHECK 04/07/2024
3	FINAL 06/14/2024
SURVEY	JACOBSON WESTGARD ASSOC.
DRAWN	LJ & MF
DESIGNED	MW & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203724993 203725001
SHEET NUMBER	
J.1	

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THIS DRAWING IS THE PROPERTY OF STANTEC AND IS NOT TO BE REPRODUCED OR USED FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC. IT IS FORBIDDEN.

Plot Date: 06/16/2026 - 11:18am
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Xref: TITLE BLOCK



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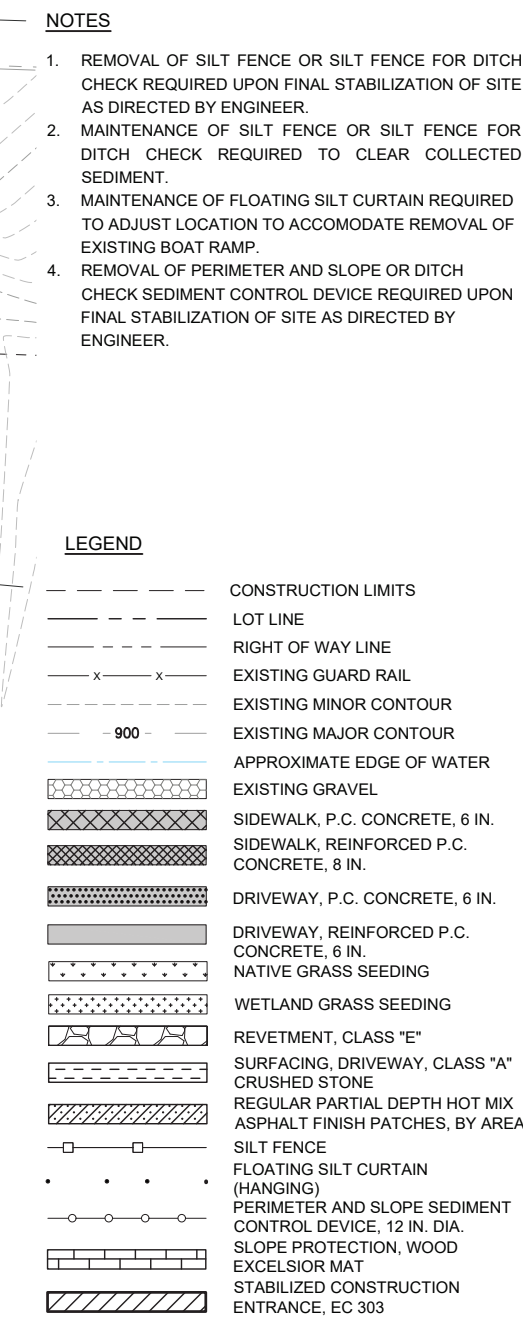
EROSION CONTROL PLAN - OVERVIEW

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

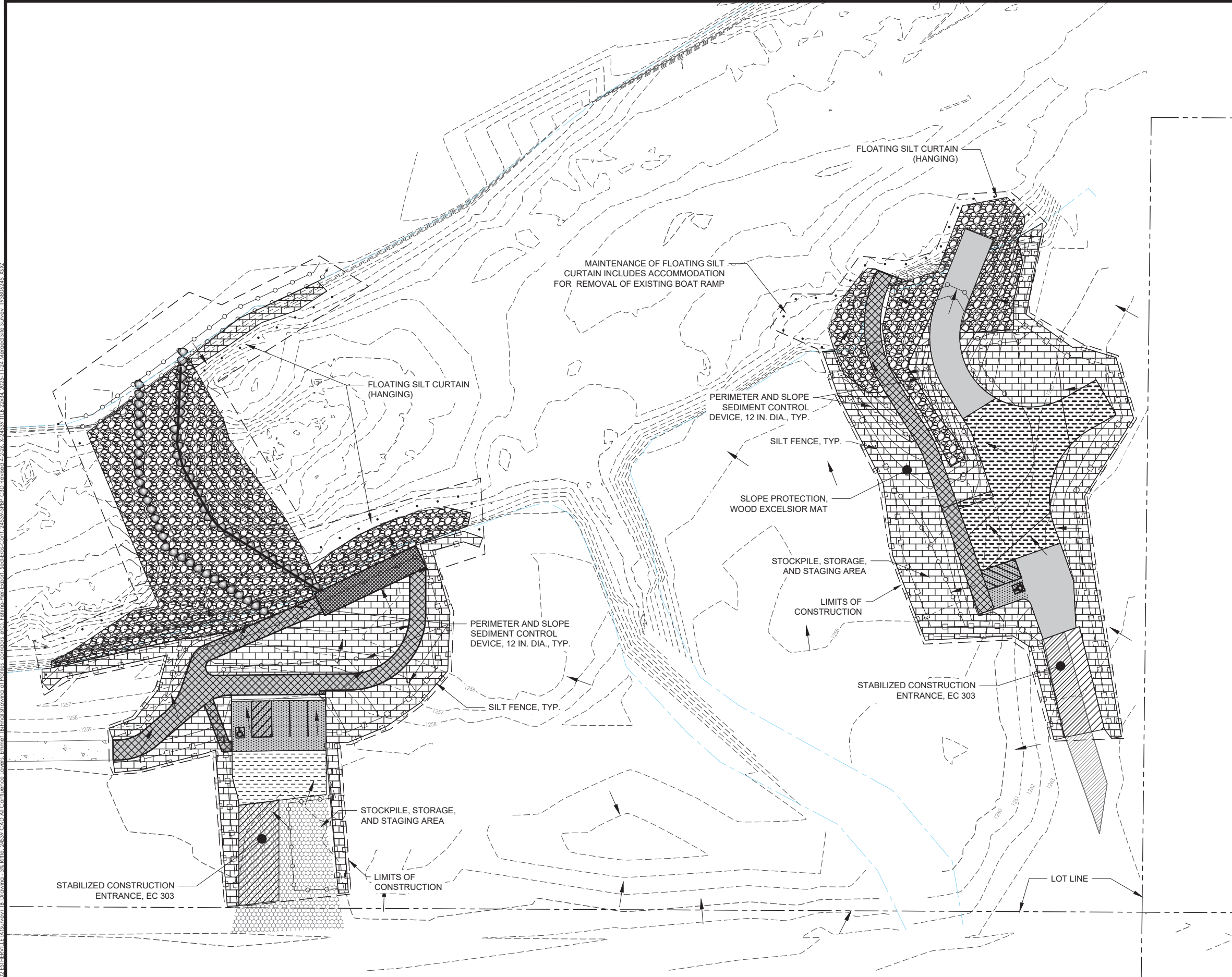
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SHEET NUMBER	
RR.1	



IOWA DOT PROJECT #: NRT-2417(610)--9G-32



IOWA DOT PROJECT #: NRT-2417(610)--9G-32



NOTES

1. REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECK REQUIRED UPON FINAL STABILIZATION OF SITE AS DIRECTED BY ENGINEER.
2. MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK REQUIRED TO CLEAR COLLECTED SEDIMENT.
3. MAINTENANCE OF FLOATING SILT CURTAIN REQUIRE TO ADJUST LOCATION TO ACCOMMODATE REMOVAL OF EXISTING BOAT RAMP.
4. REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE REQUIRED UPON FINAL STABILIZATION OF SITE AS DIRECTED BY ENGINEER.

LEGEND

	CONSTRUCTION LIMITS
	LOT LINE
	RIGHT OF WAY LINE
	EXISTING GUARD RAIL
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	APPROXIMATE EDGE OF WATER
	EXISTING GRAVEL
	SIDEWALK, P.C. CONCRETE, 6 IN.
	SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN.
	DRIVEWAY, P.C. CONCRETE, 6 IN.
	DRIVEWAY, REINFORCED P.C. CONCRETE, 6 IN.
	NATIVE GRASS SEEDING
	WETLAND GRASS SEEDING
	REVETMENT, CLASS "E"
	SURFACING, DRIVEWAY, CLASS "A"
	CRUSHED STONE
	REGULAR PARTIAL DEPTH HOT MIX ASPHALT FINISH PATCHES, BY AREA
	SILT FENCE
	FLOATING SILT CURTAIN (HANGING)
	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
	SLOPE PROTECTION, WOOD EXCELSIOR MAT
	STABILIZED CONSTRUCTION ENTRANCE, EC 303



ECS - ESTHERVILLE
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

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DRAWN LJ & MF		
DESIGNED MW & PP		
CHECKED PM		
APPROVED PP		
PROJ. NO.		203724995 203725001

SHEET NUMBER
RR.3

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Final Stabilization and Closeout, Inspection Requirements, Non-Stormwater Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All Contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES

1.

Designer: (Stantec Consulting Services) Joseph R. Pesik

a.

Prepares Base PPP included in the project plan.

b.

Prepares Notice of Intent (NOI) and transfers it to the Owner to be submitted to the Iowa DNR.

c.

Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.
2.

Contractor:

a.

Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Waters Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.

b.

Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.

c.

Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.

d.

Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).

e.

Supervises and implements good housekeeping practices according to Paragraph III.C.2.

f.

Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.

g.

Complies with training and certification requirements of Section 2602 of the Standard Specifications.

h.

Submits amended PPP site map according to Section 2602 of the Standard Specifications.
3.

Subcontractors:

a.

Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Waters Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.

b.

Implement good housekeeping practices according to Paragraph III.C.2.
4.

RCE / Project Engineer:

a.

Is Project Storm Water Manager.

b.

On projects where IDOT is the Contracting Authority, is current with erosion control training or certification.

c.

Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project site that are experiencing problems with achieving permit compliance.

d.

Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.

e.

Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.

f.

Requires employees, Contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.

g.

Is familiar with the Project PPP and storm water site map.

h.

On projects where IDOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.

i.

Is the point of contact for the Project for regulatory officials, inspector, Contractors, and subcontractors regarding storm water requirements.

j.

Is signature authority on Notice of Discontinuation (NOD).

k.

Maintains an up-to-date record of Contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).

l.

Makes information to determine permit compliance available to the DNR upon their request.
5.

Inspector:

a.

Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.

b.

Makes information to determine permit compliance available to the DNR upon their request.

c.

Conducts joint required inspections of the site with the Contractor/subcontractor.

d.

Completes an inspection report after each inspection.

e.

Is signature authority on storm water inspection reports.
6.

Owner: (City of Estherville) Penny Clayton (City Administrator)

a.

Submits Notice of Intent (NOI) to the Iowa DNR.

b.

Is signature authority on the Base PPP in addition to the consultant.

c.

Responsible for long term operation and maintenance.

II. PROJECT SITE DESCRIPTION

1.

This Pollution Prevention Plan (PPP) is for the Midway Access Project, which includes the construction of a boat ramp and parking lot for river access in Estherville, Iowa.
2.

This PPP covers approximately 3.41 acres with an estimated 1.10 acres being disturbed. There will be an estimated +0.42 acres of net increase in impervious surface onsite.
3.

The PPP is located in an area of one soil association (Millington Silt Loam).
4.

The estimated weighted average runoff coefficient number for this PPP will increase from 0.23 in the existing conditions to 0.43 after the completion of the Project.
5.

Storm Water Site Map is located in the RR sheets. Proposed slopes are shown in the cross sections and details. Supplemental information is located in the Tabulations in the C sheets.
6.

The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, riprap outlet stabilization will typically not be installed until the culvert under the access road is installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.
7.

Runoff from this work will sheet flow to: Adjacent wetlands and the Des Moines River.
8.

Project will impact 0.55 acres of wetlands along the Des Moines River.

III. CONTROLS

1.

The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
2.

Preserve vegetation in areas not needed for construction.
3.

Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.
4.

EROSION AND SEDIMENT CONTROLS

a.

Stabilization Practices

1)

Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.

2)

Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:

a)

Permanently ceased on any portion of the site, or

b)

Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.

3)

Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III.4.a.2.b above.

4)

Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-1A), and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans.

5)

Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.

6)

Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in the tabulations in the C or RR Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

POLLUTION PREVENTION PLAN

- b.

Structural Practices

1)

Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from the surface when discharging basins, and controls to direct storm water to vegetated areas.
- c.

Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-1A), and Estimate Reference Information (100-4A) located in the C sheets, as well as all other specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the Standard Road Plans.

1)

Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along the length of outfall channels as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans. The installation of these devices may be subject to Section 404 of the Clean Waters Act.

5. OTHER CONTROLS

Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

- a.

Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
- b.

Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
- c.

Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
- d.

Waste Disposal - Do not dispose of any materials onsite, nor discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
- e.

Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
- f.

Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
- g.

Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry shall be removed from the project.
- h.

Vehicle and Equipment Storage and Maintenance Areas - Perform onsite fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
- i.

Portable Toilets - Position so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly.
- j.

Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
- k.

Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges offsite. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
- l.

Hazardous Materials - Hazardous materials, including but not limited to oil, gasoline, paint and any hazardous substance must be properly stored including secondary containments, to prevent spills, leaks, or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with state or local disposal requirements. The Contractor shall comply with Section 307(a) of the Clean Waters Act (CWA) for toxic pollutants effluent standards or prohibitions.
- m.

Prohibited Discharges - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials, fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance, and soaps or solvents used in vehicle and equipment washing.

6. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. when such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50-percent of their capacity.

V. FINAL STABILIZATION AND CLOSEOUT

All pervious areas disturbed by construction as designated will receive vegetative cover according to the Construction Drawings and Specifications and within the specified vegetative time schedule. Final stabilization will occur when the site has a uniform vegetative cover with a density of 70-percent over the restored pervious areas. All temporary erosion prevention and sediment control BMPs must be removed as part of the sites final stabilization. All sediment must be cleaned out of conveyances and temporary sedimentation basins if applicable. Notice of Discontinuation (NOD) must be submitted within thirty (30) calendar days of final stabilization. The NOD shall include the name of the individual to which the permit was issued, the General Permit number and permit authorization number, the date the construction site reached final stabilization, and the signed certifications.

VI. INSPECTION REQUIREMENTS

1.

Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven (7) calendar days until the project is complete (through final stabilization and NOD submittal). Storm water site inspection will include:

a.

Date and time of the inspection.

b.

Summary of the scope of the inspection.

c.

Name and qualifications of the personnel making the inspection.

d.

Review of erosion and sediment control measures within the disturbed areas for the effectiveness in preventing impacts to receiving waters.

e.

Major observations related to the implementation of the PPP.

f.

Identification of corrective actions required to maintain or modify erosion and sediment control measures.

g.

Record rainfall events since the previous inspection.
2.

Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within three (3) calendar days of the inspection and complete within seven (7) calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimate date by which the corrections will be made.

VII. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VIII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

IX. DEFINITIONS

1.

Base PPP - Initial Pollution Prevention Plan.
2.

Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
3.

Fieldbook Entries - This contains the inspector's daily diary and bid item postings.
4.

Controls - Methods, practices or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
5.

Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: *Joey Pesik*

Printed or Typed Name: Joseph R. Pesik

Signature: *Penny Clayton*

Printed or Typed Name: Penny Clayton



3325 S TIMBERLINE RD
FORT COLLINS, CO 80525
www.stantec.com

SWPPP - MIDWAY

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

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Plot Date: 06/16/2026 - 11:19am
Drawing name: C:\Users\jhenning\Documents\203725001\estherville_boor_camp\project\flex\cod\sheet\flex\erosion_control_plan_2.dwg
Xrefs: TITLE BLOCK - 19308592-ESTHERVILLE (Survey) 1B, Drawing - 38, fillis - 24539, CAD At Compliance Layers, Enamel, Iftline Showing all Profiles, corridors et al, Fitline-Hier-Export, Sed-Eros-Com, 24539-9ppr, CSD, Revised 4-2-26, X-24539, T11B-29-24, 2025-11-24, Merged Site Survey, 19308592-5, XSD

POLLUTION PREVENTION PLAN

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I. ROLES AND RESPONSIBILITIES

1.

Designer: (Stantec Consulting Services) Joseph R. Pesik

a.

Prepares Base PPP included in the project plan.

b.

Prepares Notice of Intent (NOI) and transfers it to the Owner to be submitted to the Iowa DNR.

c.

Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.
2.

Contractor:

a.

Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Waters Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.

b.

Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.

c.

Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.

d.

Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).

e.

Supervises and implements good housekeeping practices according to Paragraph III.C.2.

f.

Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.

g.

Complies with training and certification requirements of Section 2602 of the Standard Specifications.

h.

Submits amended PPP site map according to Section 2602 of the Standard Specifications.
3.

Subcontractors:

a.

Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Waters Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.

b.

Implement good housekeeping practices according to Paragraph III.C.2.
4.

RCE / Project Engineer:

a.

Is Project Storm Water Manager.

b.

On projects where IDOT is the Contracting Authority, is current with erosion control training or certification.

c.

Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project site that are experiencing problems with achieving permit compliance.

d.

Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.

e.

Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.

f.

Requires employees, Contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.

g.

Is familiar with the Project PPP and storm water site map.

h.

On projects where IDOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.

i.

Is the point of contact for the Project for regulatory officials, inspector, Contractors, and subcontractors regarding storm water requirements.

j.

Is signature authority on Notice of Discontinuation (NOD).

k.

Maintains an up-to-date record of Contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).

l.

Makes information to determine permit compliance available to the DNR upon their request.
5.

Inspector:

a.

Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.

b.

Makes information to determine permit compliance available to the DNR upon their request.

c.

Conducts joint required inspections of the site with the Contractor/subcontractor.

d.

Completes an inspection report after each inspection.

e.

Is signature authority on storm water inspection reports.
6.

Owner: (City of Estherville) Penny Clayton (City Administrator)

a.

Submits Notice of Intent (NOI) to the Iowa DNR.

b.

Is signature authority on the Base PPP in addition to the consultant.

c.

Responsible for long term operation and maintenance.

II. PROJECT SITE DESCRIPTION

1.

This Pollution Prevention Plan (PPP) is for the Estherville Dam Mitigation Project, which includes the construction of a boat ramp, parking lots, sidewalks, fishing access, and rock arch rapids in Estherville, Iowa.
2.

This PPP covers approximately 2.48 acres with an estimated 1.40 acres being disturbed. There will be an estimated +0.33 acres of net increase in impervious surface onsite from 0.24 acres to 0.57 acres.
3.

The PPP is located in an area of two soil associations (Spillville Loam and Terril Loam).
4.

The estimated weighted average runoff coefficient number for this PPP will increase from 0.54 in the existing conditions to 0.70 after the completion of the Project.
5.

Storm Water Site Map is located in the RR sheets. Proposed slopes are shown in the cross sections and details. Supplemental information is located in the Tabulations in the C sheets.
6.

The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, riprap outlet stabilization will typically not be installed until the culvert under the access road is installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.
7.

Runoff from this work will sheet flow to: Adjacent wetlands and the Des Moines River.
8.

Project will impact 0.02 acres of wetlands.

III. CONTROLS

1.

The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
2.

Preserve vegetation in areas not needed for construction.
3.

Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.
4.

EROSION AND SEDIMENT CONTROLS

a.

Stabilization Practices

1)

Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.

2)

Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:

a)

Permanently ceased on any portion of the site, or

b)

Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.

3)

Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III.4.a.2.b above.

4)

Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-1A), and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans.

5)

Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.

6)

Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in the tabulations in the C or RR Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

POLLUTION PREVENTION PLAN

- b.

Structural Practices

1)

Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from the surface when discharging basins, and controls to direct storm water to vegetated areas.

2)

Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-1A), and Estimate Reference Information (100-4A) located in the C sheets, as well as all other specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the Standard Road Plans.
- c.

Storm Water Management

1)

Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along the length of outfall channels as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans. The installation of these devices may be subject to Section 404 of the Clean Waters Act.

5. OTHER CONTROLS

Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

- a.

Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
- b.

Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
- c.

Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
- d.

Waste Disposal - Do not dispose of any materials onsite, nor discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
- e.

Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
- f.

Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
- g.

Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry shall be removed from the project.
- h.

Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
- i.

Portable Toilets - Position so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly.
- j.

Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
- k.

Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges offsite. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
- l.

Hazardous Materials - Hazardous materials, including but not limited to oil, gasoline, paint and any hazardous substance must be properly stored including secondary containments, to prevent spills, leaks, or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with state or local disposal requirements. The Contractor shall comply with Section 307(a) of the Clean Waters Act (CWA) for toxic pollutants effluent standards or prohibitions.
- m.

Prohibited Discharges - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials, fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance, and soaps or solvents used in vehicle and equipment washing.

6. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. when such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50-percent of their capacity.

V. FINAL STABILIZATION AND CLOSEOUT

All pervious areas disturbed by construction as designated will receive vegetative cover according to the Construction Drawings and Specifications and within the specified vegetative time schedule. Final stabilization will occur when the site has a uniform vegetative cover with a density of 70-percent over the restored pervious areas. All temporary erosion prevention and sediment control BMPs must be removed as part of the sites final stabilization. All sediment must be cleaned out of conveyances and temporary sedimentation basins if applicable. Notice of Discontinuation (NOD) must be submitted within thirty (30) calendar days of final stabilization. The NOD shall include the name of the individual to which the permit was issued, the General Permit number and permit authorization number, the date the construction site reached final stabilization, and the signed certifications.

VI. INSPECTION REQUIREMENTS

1.

Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven (7) calendar days until the project is complete (through final stabilization and NOD submittal). Storm water site inspection will include:

a.

Date and time of the inspection.

b.

Summary of the scope of the inspection.

c.

Name and qualifications of the personnel making the inspection.

d.

Review of erosion and sediment control measures within the disturbed areas for the effectiveness in preventing impacts to receiving waters.

e.

Major observations related to the implementation of the PPP.

f.

Identification of corrective actions required to maintain or modify erosion and sediment control measures.

g.

Record rainfall events since the previous inspection.
2.

Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within three (3) calendar days of the inspection and complete within seven (7) calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimate date by which the corrections will be made.

VII. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VIII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

IX. DEFINITIONS

1.

Base PPP - Initial Pollution Prevention Plan.
2.

Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
3.

Fieldbook Entries - This contains the inspector's daily diary and bid item postings.
4.

Controls - Methods, practices or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
5.

Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: *Joery Pesik*

Printed or Typed Name: Joseph R. Pesik

Signature: *Penny Clayton*

Printed or Typed Name: Penny Clayton

IOWA DOT PROJECT #: NRT-2417(610)--9G-32



3325 S TIMBERLINE RD
FORT COLLINS, CO 80525
www.stantec.com

SWPPP - ESTHERVILLE

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS

CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE	
JUNE 16, 2026	
NO	REVISION
1	PRESUMINARY 02/17/2026
2	CHECK 04/07/2026
3	FINAL 06/16/2026
SURVEY	JACOBSON WESTGARD ASSOC.
DRAWN	LI & MF
DESIGNED	MW & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203725001 203725001
SHEET NUMBER	
RR.5	

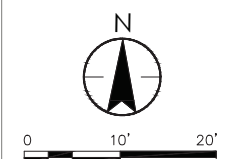
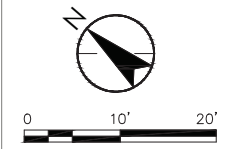


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SIDEWALK COMPLIANCE - MIDWAY
ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE		
JUNE 16, 2026		
NO	REVISION	DATE
1	PRELIMINARY	02/17/2026
2	CHECK	04/07/2026
3	FINAL	06/16/2026
SURVEY JACOBSON WESTGARD ASSOC		
DRAWN LJ & MF		
DESIGNED MW & PP		
CHECKED PM		
APPROVED PP		
PROJ. NO.		203724993 203725001

SHEET NUMBER
S.1



SHADING	DESIGN COLOR NO.	
BURNT YELLOW	(40)	 PROPOSED SIDEWALK SHADING
BLUE, LIGHT	(150)	 PROPOSED SIDEWALK LANDING SHADING
GRAY, MEDIUM	(8)	 PROPOSED KAYAK LAUNCH SHADING
GRAY, LIGHT	(9)	 PROPOSED PAVEMENT SHADING
GRAY, DARK	(250)	 PROPOSED GRANULAR SHADING
BROWN, LIGHT	(41)	 GRADING SHADING
		CONSTRUCTION LIMITS
-----		EDGE OF WATER
-----		RIGHT OF WAY LINE
		DETECTABLE WARNINGS
		PROPOSED RIP-RAP

DATE OF ISSUANCE	
JUNE 16, 2026	
NO.	REVISION DATE
1	PRELIMINARY 02/17/2026
2	CHECK 04/07/2026
3	FINAL 06/16/2026
SURVEY	JACOBSON WESTGARD ASSOC.
DRAWN	LJ & MF
DESIGNED	MMW & PP
CHECKED	PM
APPROVED	PP
PROJ. NO.	203724995 203725001
SHEET NUMBER	
S.2	

IOWA DOT PROJECT #: NRT-2417(610)--9G-32

SIDEWALK COMPLIANCE SEE SHEETS S.1 AND S.2															113-10A 04-21-20	
① Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.																
Point to Point		Sidewalk Designation	Δ Distance	Δ Elevation	Slope	Acceptable Constructed Range	Staking required on this Quadrant? ①	Measured Slope	Initials	Remarks		Point	Northing	Easting	Elevation	
			FT	FT	%	POS. OR NEG.	①	%								
101	102	Landing/Turning Space	1.94	-0.02	-1.0%	0.1% to 2.0%						101	4577769.203	3959748.455	1246.59	
102	109	Landing/Turning Space	8.00	0.01	0.1%	0.1% to 2.0%						102	4577767.252	3959748.189	1246.57	
102	103	Sidewalk Running Slope	44.87	-0.45	-1.0%	0.5% to 5.0%										
103	108	Crosswalk Cross Slope - No Yield Condition	8.00	0.11	1.4%	0.0% to 5.0%						103	4577728.959	3959749.861	1246.12	
103	104	Sidewalk Running Slope	0.98	-0.01	-1.2%	0.5% to 5.0%										
104	105	Sidewalk Running Slope	24.22	-0.38	-1.6%	0.5% to 5.0%						104	4577728.253	3959749.177	1246.11	
105	106	Sidewalk Running Slope	0.78	0.00	-0.5%	0.5% to 5.0%						105	4577710.869	3959732.31	1245.72	
106	107	Crosswalk Cross Slope - No Yield Condition	8.00	0.09	1.2%	0.0% to 5.0%						106	4577710.31	3959731.768	1245.72	
107	108	Sidewalk Running Slope	25.98	0.41	1.6%	0.5% to 5.0%						107	4577715.84	3959725.987	1245.81	
108	109	Sidewalk Running Slope	30.66	0.35	1.2%	0.5% to 5.0%						108	4577734.489	3959744.08	1246.23	
109	110	Landing/Turning Space	4.82	0.06	1.3%	0.1% to 2.0%						109	4577760.462	3959743.959	1246.58	
110	111	Landing/Turning Space	0.36	0.00	1.4%	0.1% to 2.0%						110	4577763.016	3959739.87	1246.64	
111	112	Landing/Turning Space	6.30	0.04	0.7%	0.1% to 2.0%						111	4577763.207	3959739.564	1246.65	
112	113	Landing/Turning Space	2.76	-0.03	-1.0%	0.1% to 2.0%						112	4577768.981	3959741.53	1246.69	
113	101	Landing/Turning Space	4.39	-0.07	-1.6%	0.1% to 2.0%	Yes					113	4577769.796	3959744.106	1246.66	
201	202	Landing/Turning Space	19.79	-0.30	-1.5%	0.1% to 2.0%						201	4563542.399	3975222.829	1260.26	
202	205	Landing/Turning Space	8.00	-0.01	-0.1%	0.1% to 2.0%						202	4563561.158	3975229.412	1259.96	
202	203	Sidewalk Running Slope	36.19	-1.80	-5.0%	0.5% to 5.0%	Yes									
203	204	Sidewalk Cross Slope	8.00	-0.01	-0.1%	0.5% to 2.0%						203	4563595.187	3975241.452	1258.16	
204	205	Sidewalk Running Slope	36.19	1.80	5.0%	0.5% to 5.0%	Yes					204	4563597.848	3975233.908	1258.15	
205	206	Landing/Turning Space	10.00	0.15	1.5%	0.1% to 2.0%						205	4563563.72	3975221.868	1259.95	
206	207	Landing/Turning Space	9.79	0.15	1.5%	0.1% to 2.0%						206	4563554.29	3975218.541	1260.10	
207	201	Landing/Turning Space	8.00	0.01	0.1%	0.1% to 2.0%						207	4563545.06	3975215.285	1260.25	
301	302	Sidewalk Running Slope	29.71	-0.45	-1.5%	0.5% to 5.0%						301	4563479.531	3975655.302	1259.44	
302	327	Sidewalk Cross Slope	10.00	0.12	1.2%	0.5% to 2.0%						302	4563492.898	3975629.904	1258.99	
302	303	Sidewalk Running Slope	15.97	-0.79	-4.9%	0.5% to 5.0%	Yes									
303	326	Landing/Turning Space	14.44	0.22	1.5%	0.1% to 2.0%						303	4563505.953	3975621.046	1258.21	
303	304	Landing/Turning Space	24.59	-0.23	-0.9%	0.1% to 2.0%										
304	307	Landing/Turning Space	8.00	0.02	0.2%	0.1% to 2.0%						304	4563526.851	3975609.704	1257.98	
304	305	Sidewalk Running Slope	60.75	-2.98	-4.9%	0.5% to 5.0%	Yes									
305	306	Landing/Turning Space	8.00	0.00	0.0%	0.1% to 2.0%						305	4563550.768	3975553.857	1255.00	
306	307	Sidewalk Running Slope	61.08	2.99	4.9%	0.5% to 5.0%	Yes					306	4563543.541	3975550.411	1255.00	
307	308	Landing/Turning Space	11.00	0.22	2.0%	0.1% to 2.0%	Yes					307	4563519.497	3975606.555	1257.99	
308	318	Landing/Turning Space	11.54	0.18	1.5%	0.1% to 2.0%						308	4563511.82	3975604.939	1258.21	
308	309	Sidewalk Running Slope	8.69	0.32	3.7%	0.5% to 5.0%										
309	317	Landing/Turning Space	10.00	0.15	1.5%	0.1% to 2.0%						309	4563511.911	3975596.253	1258.53	
309	310	Landing/Turning Space	47.00	0.09	0.2%	0.1% to 2.0%										
310	316	Landing/Turning Space	10.00	0.15	1.5%	0.1% to 2.0%						310	4563512.399	3975549.256	1258.62	
310	311	Sidewalk Running Slope	12.43	-0.57	-4.6%	0.5% to 5.0%	Yes									
311	314	Sidewalk Cross Slope	8.00	0.12	1.5%	0.5% to 2.0%						311	4563512.529	3975536.822	1258.05	
311	312	Sidewalk Running Slope	66.25	-3.05	-4.6%	0.5% to 5.0%	Yes									
312	313	Landing/Turning Space	8.00	0.00	0.0%	0.1% to 2.0%						312	4563561.969	3975507.134	1255.00	
313	314	Sidewalk Running Slope	82.55	3.17	3.8%	0.5% to 5.0%						313	4563565.785	3975499.134	1255.00	
314	315	Sidewalk Running Slope	12.43	0.57	4.6%	0.5% to 5.0%	Yes					314	4563504.529	3975536.739	1258.17	
315	316	Landing/Turning Space	2.00	0.03	1.5%	0.1% to 2.0%						315	4563504.4	3975549.173	1258.74	
316	317	Landing/Turning Space	47.00	-0.09	-0.2%	0.1% to 2.0%						316	4563502.4	3975549.258	1258.77	
317	318	Sidewalk Running Slope	8.22	-0.29	-3.5%	0.5% to 5.0%						317	4563501.911	3975596.149	1258.68	
318	319	Landing/Turning Space	1.29	0.00	0.1%	0.1% to 2.0%						318	4563500.426	3975604.178	1258.39	
319	326	Landing/Turning Space	5.12	0.03	0.6%	0.1% to 2.0%						319	4563499.899	3975605.359	1258.39	
319	320	Sidewalk Running Slope	21.26	1.06	5.0%	0.5% to 5.0%	Yes									
320	325	Landing/Turning Space	5.00	-0.04	-0.9%	0.1% to 2.0%						320	4563480.02	3975597.856	1259.45	
320	321	Landing/Turning Space	1.20	0.02	1.7%	0.1% to 2.0%	Yes									
321	322	Landing/Turning Space	1.52	0.03	2.0%	0.1% to 2.0%	Yes					321	4563478.901	3975597.434	1259.47	
322	323	Landing/Turning Space	5.00	0.10	2.0%	0.1% to 2.0%	Yes					322	4563478.912	3975595.91	1259.50	
323	324	Landing/Turning Space	5.08	-0.10	-2.0%	0.1% to 2.0%	Yes					323	4563473.913	3975595.858	1259.60	
324	325	Landing/Turning Space	4.70	-0.09	-2.0%	0.1% to 2.0%	Yes					324	4563473.861	3975600.876	1259.50	
325	326	Sidewalk Running Slope	20.13	-0.98	-4.9%	0.5% to 5.0%	Yes					325	4563478.254	3975602.534	1259.41	
326	327	Sidewalk Running Slope	18.11	0.69	3.8%	0.5% to 5.0%						326	4563497.092	3975609.643	1258.42	
327	328	Sidewalk Running Slope	36.70	0.42	1.1%	0.5% to 5.0%						327	4563485.305	3975623.397	1259.11	
328	301	Match Existing Cross Slope	8.00	-0.09	-1.1%	Match Existing						328	4563469.532	3975655.198	1259.53	

1. MINOR FIELD ADJUSTMENTS ALLOWED TO MAINTAIN ADA COMPLIANCE.



SIDEWALK COMPLIANCE - TABULATION

ESTHERVILLE DAM MITIGATION & MIDWAY ACCESS
CITY OF ESTHERVILLE
IOWA

DATE OF ISSUANCE		
JUNE 16, 2026		
NO.	REVISION	DATE
1	PRELIMINARY	02/17/2024
2	CHECK	04/07/2026
3	FINAL	06/16/2026
SURVEY	JACOBSON WESTGARD ASSOC.	
DRAWN	LJ & MF	
DESIGNED	MW & PP	
CHECKED	FM	
APPROVED:	PP	
PROJ. NO.	203-24995/ 203-725001	
SHEET NUMBER		
S.3		

