

IOWA DEPARTMENT OF NATURAL RESOURCES
LAND & WATERS BUREAU
WALLACE STATE OFFICE BUILDING

ADDENDUM No. 2

LITTLETON IOWA
DAM MITIGATION
BUCHANAN COUNTY, IOWA
PROJECT NUMBER: 10-03-10-01

October 24, 2018

This Addendum is issued to modify, explain or correct the original Drawings and Specifications, and is hereby made a part of the Contract Documents. Please attach this Addendum to the Project Manual in your possession. Insert the number and issue date of this Addendum in the blank space provided on the Proposal Form.

Specifications:

- A. The following specification chapters have been revised and are attached to this addendum:
 - 00300 PROPOSAL - The *Approximate Start Date* has been revised from 1/1/2018 to 1/1/2019. Additionally, the bid items have been updated. Please discard the previous proposal chapter and use the attached version for bidding.
 - 02270 STONE SPECIFICATION - Section 2.01 *Materials* has been updated

PLANS:

- A. The following plan sheets have been revised and are attached to this addendum:
 - B.01 Details - Updated Boulder Cluster Detail
 - C.01 General Notes - Updated Quantities table and Estimate Reference Information table

Time and Date of Letting **11:00 AM, November 15, 2018**

PROPOSAL

Project Description and Location

Project No. **10-03-10-01**

**Dam Mitigation
Littleton Iowa
BUCHANAN COUNTY, Iowa**

Proposal of: _____

(Name of Bidder)

Located at: _____

(Address)

(Telephone include area code)

Amount of Proposal Guarantee	Specified completion date or Number of Working Days	Approx. or Specified Starting Date or Number of Working Days	Liquidated Damages Per Day
\$25,000.00	06/30/2019	1/1/2019	\$300.00

The undersigned hereby agrees, if awarded the contract, to execute the proposed contract and to furnish an approved performance bond in a amount not less than 100 percent of the contract award within 30 days after the date of approval of award of the contract, and to provide all labor, materials, and equipment required to complete the project designated above, for the price hereinafter set forth, in strict compliance with the contract documents prepared by the Iowa Department of Natural Resources.

The undersigned agrees, if awarded the contract, to commence the work within a reasonable time after the preconstruction conference or by the specific starting date, if so specified, and to complete the work within the contract period, or to pay liquidated damages in the amount stipulated herein for each calendar day the work remains uncompleted after the expiration of the contract period or any authorized reduction thereof.

A proposal guarantee in the amount stipulated herein is included with this proposal, to be forfeited to the Iowa Department of Natural Resources if the undersigned fails to execute the contract and furnish an approved performance bond, if awarded the contract.

By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the state of Iowa, and also, a resident bidder shall be allowed a preference against a nonresident bidder from a state or foreign country which gives or requires a preference to bidders from that state or foreign country on projects in which there are no federal funds involved.

BY

(Iowa Contractor Registration No.)

(Signed)

(Date)

(FID/EIN/SSN)

(Phone Number)

(Fax Number)

(Email Address)

By signing and submitting the proposal, the bidder:

1. Gives an unsworn declaration on behalf of each person, firm, association, partnership, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract, and is not under debarment currently by the Federal government for a criminal violation which is reasonably related to bidding and contracting procedures; and

2. Affirms to have examined the plans, specifications, and job site to become acquainted with the adjacent areas, means of approach to the site, conditions of the actual job site, and the facilities for delivering, storing, placing, and handling of materials and equipment.

SCHEDULE OF PRICES

Project Description and Location

Dam Mitigation, Littleton Iowa, BUCHANAN COUNTY

Name of Bidder

THE "UNIT PRICE" AND "AMOUNT" COLUMNS MUST BE FILLED IN FOR THIS PROPOSAL TO BE CONSIDERED COMPLETE. IF THERE IS A DISCREPANCY BETWEEN UNIT BID PRICES, EXTENSIONS, OR TOTAL AMOUNTS OF BID, THE UNIT PRICES SHALL GOVERN.

Item No.	Description	Estimated Quantity	Unit Price	Amount
1	MOBILIZATION	1 LS		
2	CLEARING AND GRUBBING	1 LS		
3	DAM REMOVAL	1 LS		
4	EXCAVATION, EXPORT	1,550 CY		
5	BASE STONE, CLASS 'E' REVETMENT	4,500 TON		
6	6" MINUS CHOKE STONE	1,160 TON		
7	WEIR STONE (3.5'x3.0'x1.5' MIN.)	290 TON		
8	LARGE WEIR STONE (4.0'x5.0'x1.2' MIN.)	60 TON		
9	STABILIZED CONSTRUCTION ENTRANCE (MACADAM STONE)	30 TON		
10	EROSION CONTROL	1 LS		
11	SEEDING/FERTILIZING/MULCHING	1 LS		
Total				

Bidder Acknowledges Receipt of Any Issued Addenda Below <div style="text-align: center;">(Number and Date)</div>	List of Subcontractors (Attach additional pages, if necessary)
Addendum #1 – 10/12/2018	
Addendum #2 – 10/25/2018	

STONE

PART 1 - GENERAL

1.01 SUMMARY:

- A. Section includes: All material, labor and equipment necessary for the delivery and placement of stone and granular surfacing as required.
- B. Related Sections:
 - 1. Drawings and General Provisions of the contract, including the General Covenants and Provisions, Supplementary Covenants and Provisions and General Requirements.
- C. Method of measurement: For all stone will be delivered in tons. Weigh on accurate scales designed for weighing loaded trucks. Load vehicles to ensure against loss of material between the scales and the point of delivery. No deduction will be made for the weight of moisture naturally occurring in the material. Material will not be deposited nor spread until the scale ticket is delivered to the Engineer and the weight of the material verified.
- D. Basis for payment:
 - 1. Unit Price: If the work of this section is so designated to be paid, the Contractor will be paid the Contract Unit Price for each class of material provided as specified herein. Class 'E' revetment and macadam stone shall be paid the contract unit price for the calculated tons of material. Weir stones shall be paid the contract unit price for the calculated tons of material.
 - a. Additional payments for increased quantities, labor or equipment usage will only be allowed if a change order is warranted due to a change in project scope or for unforeseen conditions, as determined by the Project Engineer, in accordance with the provisions of the General Conditions of the Contract.

1.02 REFERENCES:

- A. Standards of materials and construction shall conform with the Standard Specifications for Highway and Bridge Construction, series 2015 of the Iowa Department of Transportation, Release Date: October 17, 2017.
- B. Where conflicts arise between the Drawings and Code Requirements, the latter shall prevail, unless Drawings are more stringent. Bring all conflicts to the attention of the Project Engineer.

1.03 SUBMITTALS:

- A. Samples: Make available for verification purposes, samples of each type of material to be used in the work of this section, as requested by the Engineer.
- B. Weight tickets: Provide weight tickets for each truckload.
 - 1. Include the Contractor's name, date of delivery designation of mixture, load identification number, net weight of load and any other data which would aid in the identification of the load.
 - 2. Only weight tickets issued by a state licensed scale will be accepted.
 - 3. Material Iowa D.O.T. certification.

1.04 QUALITY ASSURANCE:

- A. Qualification of Workers: Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the requirements and the methods needed for proper performance of the work of this section.

1.05 MATERIAL HANDLING:

- A. Use a loading method which assures reasonable compliance with specified requirements and is acceptable to the Engineer. The Engineer will visually inspect material prior to loading and may reject material too fine or too coarse and require Contractor to load from another area.

1.06 PROJECT/SITE CONDITIONS:

- A. Existing Conditions: Access to the site is proposed on the Northeast side of the River. The stockpile and delivery location will be determined by the contractor and the Engineer at the pre-construction conference. Any improvements needed in access to facilitate delivery and stockpile of the material shall be the contractor's responsibility and considered incidental to the project. View jobsite conditions prior to commencing work. Claims for extra payments as a result of failure to examine existing conditions at the site will not be allowed.

PART 2 - PRODUCTS

2.01 MATERIALS:

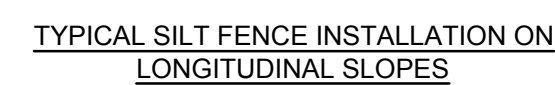
- A. Revetment Stone: Provide Revetment Stone (Riprap) or base stone where indicated in the scope of work, meeting the requirements herein and Section 4130 of Iowa DOT Standard Specifications for Highway and Bridge Construction. In addition the percentage of abrasion loss when tested in accordance to AASHTO T96 shall not exceed 50. Do not use material which split in layers less than 4-inches thick, when exposed to natural weathering regardless of the above tests results.
 - 1. Revetment stone shall be taken from blasted rock, and shall not require additional processing. After visual inspection and prior to loading, the engineer may designate material as too fine or too coarse and may require material to be loaded from another area.
 - a. Class E Riprap shall meet Iowa DOT requirements (Section 4130.02) for Class E Revetment in addition to having a specific gravity of 2.65 or greater.
 - b. Weir/Derrick Stone shall have a specific gravity of 2.65 or greater. Dimensions shall be minimum 3.5 feet by 3.0 feet by 1.5 feet and approved by the Engineer. Weight shall be 1.5 ton +/- 0.5 ton and approved by Engineer. Contractor to provide 10-15% of weir stone quantity with stones measuring 4.0 feet by 5.0 feet by 1.2 feet for boulder clusters.
 - c. Large Weir/Derrick Stone shall have a specific gravity of 2.65 or greater. Dimensions shall be minimum 4.0 feet by 5.0 feet by 1.2 feet and approved by the Engineer. Weight shall be 2.0 tons +/- 0.5 ton and approved by Engineer for boulder clusters.
- B. 6" Minus Choke Stone: Provide crushed stone consisting of a uniform mixture of coarse and fine particles produced by crushing ledge rock, predominantly limestone, dolomite, or quartzite and meeting Section 4122 of Iowa DOT Standard Specifications for Highway and Bridge Construction.
 - 1. Special Gradation:
 - a. 6" Minus Choke Stone: Well graded clean stone from 1" to 6"
- C. Stabilized Construction Entrance (Macadam Stone): Provide crushed stone consisting of a uniform mixture of coarse and fine particles produced by crushing ledge rock, predominantly limestone, dolomite, or quartzite and meeting Section 4122 of Iowa DOT Standard Specifications for Highway and Bridge Construction.

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examine the areas and conditions under which work of this section will be performed. Report to the Engineer if corrections are necessary. Do not proceed until unsatisfactory conditions are corrected.

END OF SECTION 02270



LITTLETON DAM MITIGATION WAPSIPINICON RIVER LITTLETON, IOWA DETAILS



DETAILS

SHEET NO.

B.01

UTILITY CONTACTS	
ONE CALL 1-800-292-8989	
ELECTRIC & GAS: MIDAMERICAN ENERGY 260 FAIRVIEW AVENUE P.O. BOX 600 WATERLOO, IA 50704 1-888-427-5632	TELEPHONE: FARMERS MUTUAL TELEPHONE COMPANY 541 YOUNG STREET JESUP, IOWA 50648 (319) 827-1151
WATER: CENTRAL IOWA WATER ASSOCIATION 1351 IOWA SPEEDWAY DRIVE NEWTON, IA 50208 (641) 792-7011	

QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	Quantity
1	MOBILIZATION	LS	1
2	CLEARING AND GRUBBING	LS	1
3	DAM REMOVAL	LS	1
4	EXCAVATION, EXPORT	CY	1,550
5	BASE STONE, CLASS 'E' REVETMENT	TON	4,500
6	6" MINUS CHOKE STONE	TON	1,160
7	WEIR STONE (3.5'x3.0'x1.5' MIN.)	TON	290
8	LARGE WEIR STONE (4.0'x5.0'x1.2' MIN.)	TON	60
9	STABILIZED CONSTRUCTION ENTRANCE (MACADAM STONE)	TON	30
10	EROSION CONTROL	LS	1
11	SEEDING/FERTILIZING/MULCHING	LS	1

1. BID ITEM #6 - BASE STONE, CLASS 'E' REVETMENT INCLUDES THE QUANTITY OF BASE STONE REQUIRED AFTER SUBTRACTING AN ESTIMATED 145 TONS OF SALVAGED CONCRETE FROM THE DAM REMOVAL.

CONTROL POINTS			
CONTROL POINT NO.	NORTHING	EASTING	ELEVATION
100	3659894.991	5318143.866	909.979
101	3659998.778	5318116.377	921.679
102	3659989.122	5318009.482	917.049
103	3660053.090	5317713.617	914.588

PROJECT SEQUENCING

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN 10 DAYS PRIOR TO CONSTRUCTION. THE PLAN SHALL INCLUDE METHODS TO CONTAIN AND MANAGE SEDIMENT WITHIN THE IMPOUNDMENT UPSTREAM OF THE DAM. ENGINEER SHALL APPROVE PLAN PRIOR TO DAM REMOVAL. SUGGESTIONS FOR PROJECT SEQUENCING ARE AS FOLLOWS:

1. IDENTIFY ALL SIGNIFICANT PROJECT BOUNDARIES, EASEMENTS, ARCHAEOLOGICAL SITES, ACCESS POINTS, CONSTRUCTION LIMITS AND CONTRACTOR STAGING AREAS WITH THE ENGINEER.
2. ESTABLISH HAUL ROUTES AND CONTRACTOR STAGING AREAS.
3. STAKE OUT CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
4. INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION CONTROL PLAN.
5. CLEAR AS DIRECTED WITHIN THE CONSTRUCTION LIMITS AS NEEDED TO EXCAVATE AND PLACE FILL MATERIAL WITHIN THE AREAS SHOWN ON THE PLANS. PROTECT TREES MARKED FOR PRESERVATION.
6. REMOVE AND STOCKPILE TOPSOIL WITHIN THE AREAS OF PROPOSED GRADING. BEGIN WORK AT THE UPSTREAM END OF THE PROJECT REACH AND WORK IN THE DOWNSTREAM DIRECTION.
7. EXCAVATE TO THE LINES AND GRADES SHOWN ON GRADING PLAN.
8. DEMOLISH EXISTING DAM PER DEMOLITION PLAN. CUT ALL EXPOSED STEEL REBAR FLUSH WITH THE REMAINING SURFACES. CONTROLLED REMOVAL IS REQUIRED TO MANAGE SEDIMENT UPSTREAM OF THE DAM.
9. LAYOUT THE PROPOSED CHANNEL CENTERLINE.
10. CONSTRUCT BASE STONE, CHOKER STONE, WEIR STONE, BANKFULL BENCH AND EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND DETAILS, PROCEEDING IN THE DOWNSTREAM DIRECTION.
11. RESPREAD TOPSOIL, PLANT, SEED AND MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER CONSTRUCTION PER THE EROSION CONTROL PLAN.
12. WALK THE PROJECT SITE WITH THE ENGINEER TO DEVELOP A FINAL CHECK-LIST OF ITEMS LEFT TO BE COMPLETED.
13. REPAIR/COMPLETE ITEMS IDENTIFIED ON THE FINAL CHECK-LIST.
14. REMOVE ALL WASTE FROM THE PROJECT AREA AND RESTORE ALL STAGING AND STOCKPILE AREAS TO THEIR ORIGINAL APPEARANCE. SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS PER THE EROSION CONTROL PLAN.
15. WALK THE PROJECT SITE WITH THE ENGINEER AND OWNER TO APPROVE PROJECT COMPLETENESS.

ESTIMATE REFERENCE INFORMATION	
ITEM NUMBER	DESCRIPTION
1	MOBILIZATION (LS) THIS ITEM INCLUDES PROVIDING AND REMOVING CONSTRUCTION EQUIPMENT TO THE SITE. THIS ITEM WILL BE PAID PER LUMP SUM.
2	CLEARING AND GRUBBING (LS) ITEM INCLUDES REMOVAL OF ALL VEGETATION, TREES, SHRUBS, STUMPS, AND MISCELLANEOUS DEBRIS ENCOUNTERED WITHIN THE PROJECT AREA AND AS NOTED IN THE CONTRACT DOCUMENTS. TREE PROTECTION IS INCIDENTAL TO THIS ITEM. CLEARING IS BASED ON CONSTRUCTION LIMITS AND SHOULD BE LIMITED TO ONLY THE AREAS NECESSARY TO COMPLETE THE PROJECT AND APPROVED BY THE ENGINEER. THIS ITEM WILL BE PAID PER LUMP SUM.
3	DAM REMOVAL (LS) CONTRACTOR TO REMOVE DAM AS SHOWN ON SHEET D.01. THIS ITEM WILL BE PAID PER LUMP SUM. SALVAGING CONCRETE FROM DAM REMOVAL (ESTIMATED 145 TONS) AND PLACING AS BASE STONE IS INCIDENTAL TO THIS BID ITEM. ITEM INCLUDES CUTTING REBAR FLUSH WITH SALVAGE MATERIAL INTENDED TO BE RE-USED AS BASE STONE.
4	EXCAVATION, EXPORT (CY) REFER TO SHEETS F.01, F.02, AND F.03 FOR LOCATIONS AND DETAILS. THIS ITEM WILL BE PAID AS DETERMINED BY ENGINEER PER TRUCK TICKETS. CONTRACTOR SHALL GRADE THE SITE AS DETAILED IN THE PLANS. ANY SPOILS GENERATED AND NOT SPREAD ON-SITE SHALL BE EXPORTED TO A LOCATION DETERMINED BY THE CONTRACTOR. ANY SPOILS CONSISTING OF GRAVEL OR COBBLE SHALL BE SALVAGED AND PLACED AS CHOKE STONE MATERIAL PER ENGINEER'S DIRECTION.
5	BASE STONE, CLASS 'E' REVETMENT (TON) REFER TO D.03, F.02 AND W SHEETS FOR LOCATIONS AND DETAILS. ITEM INCLUDES PROVIDING AND PLACING REVETMENT.
6	6" MINUS CHOKE STONE (TON) REFER TO SHEETS D.03, F.02, AND W SHEETS FOR LOCATIONS AND DETAILS. ITEM INCLUDES PROVIDING AND PLACING CHOKE STONE FOR FILLING VOIDS OF REVETMENT IN THE ROCK ARCH RAPIDS STRUCTURE. FILL VOIDS EVERY 2 FOOT LAYER OF REVETMENT. CHOKE STONE SHALL MEET PROJECT SPECIFICATIONS.
7	WEIR STONE (3.5'X3.0'X1.5' MIN.) (TON) REFER TO SHEETS D.03, F.02, AND W.05 FOR LOCATIONS AND DETAILS. ITEM INCLUDES PROVIDING AND PLACING WEIR (OR DERRICK) STONES. MEASUREMENT AND PAYMENT FOR THE WEIR STONES SHALL BE BASED ON THE PLAN QUANTITY. THIS PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO INSTALL THE WEIR STONES PER PLAN. BID ITEM ESTIMATE ASSUMES 1.5 TONS +/- 0.5 TONS PER WEIR STONE. WEIR STONES SHALL HAVE A SPECIFIC GRAVITY OF 2.65 OR GREATER AND SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.
8	LARGE WEIR STONE (4.0'X5.0'X1.2' MIN.) (TON) REFER TO SHEETS B.01, D.03, F.02, AND W.06 FOR LOCATIONS AND DETAILS. ITEM INCLUDES PROVIDING AND PLACING LARGE WEIR (OR DERRICK) STONES FOR BOULDER CLUSTERS. MEASUREMENT AND PAYMENT FOR THE LARGE WEIR STONES SHALL BE BASED ON THE PLAN QUANTITY. THIS PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO INSTALL THE LARGE WEIR STONES FOR BOULDER CLUSTERS PER PLAN. BID ITEM ESTIMATE ASSUMES 2.0 TONS +/- 0.5 TONS PER LARGE WEIR STONE. LARGE WEIR STONES SHALL HAVE A SPECIFIC GRAVITY OF 2.65 OR GREATER AND SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.
9	STABILIZED CONSTRUCTION ENTRANCE (MACADAM STONE) (LS) ITEM INCLUDES PROVIDING, PLACING, AND REMOVING STABILIZED CONSTRUCTION ENTRANCE. ENGINEERING FABRIC AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCE ARE CONSIDERED INCIDENTAL TO THIS ITEM.
10	EROSION CONTROL (LS) REFER TO SHEET F.03 FOR LOCATIONS AND DETAILS. THIS ITEM WILL BE PAID PER LUMP SUM. ITEM INCLUDES INSTALLATION, MAINTENANCE, AND REMOVAL OF 85 LF OF SILT FENCE INSTALLED PER PLANS AND SPECIFICATIONS. ITEM INCLUDES INSTALLATION AND MAINTENANCE OF 120 SY OF ROLLED EROSION CONTROL PRODUCT INSTALLED PER PLANS AND SPECIFICATIONS.
11	SEEDING/FERTILIZING/MULCHING (LS) THE CONTRACTOR SHALL SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS (APPROXIMATELY 0.2 ACRES) PER EROSION CONTROL PLAN F.03 AND SPECIFICATIONS. THIS ITEM WILL BE PAID PER LUMP SUM. SEEDING, FERTILIZING, AND MULCHING SHALL COMPLY WITH SUDAS SECTION 9010.

GENERAL NOTES

1. PRIOR TO ANY EXCAVATION AT THE SITE, THE CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER AND/OR ENGINEER, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY'S REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
2. ALL DEBRIS SPILLED ON THE PUBLIC R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
3. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.
4. FIELD VERIFY EXISTING GRADES AND LOCATION OF EXISTING UTILITIES, CONDUIT LINES, POLES, TREES, PAVING, BUILDINGS AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES.
5. CONTRACTOR SHALL PROTECT EXISTING UTILITIES, CONDUIT LINES, POLES, TREES, PAVING, BUILDINGS, SHORELINE, AND OTHER SITE STRUCTURES.
6. ALL DEMOLISHED ITEMS NOT TO BE SALVAGED SHALL BE LEGALLY DISPOSED OF OFF-SITE.
7. CONSTRUCTION LIMITS ARE INDICATED ON THE PLANS. CONTRACTOR TO CONSULT WITH DNR ON: STORAGE LOCATION OF MATERIALS, WORK AREA, JOB OFFICE AND EMPLOYEE PARKING. CONSULT WITH THE DNR IF CONSTRUCTION LIMITS NEED TO BE MODIFIED FROM THAT ILLUSTRATED ON THIS PLAN.
8. THE CONTRACTOR WILL HOLD THE OWNER AND OWNER'S CONSULTANTS HARMLESS FROM ANY AND ALL CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES INCURRED TO THE OWNER.
9. ALL EXCESS EXCAVATED GRAVEL AND SAND FROM CHANNEL SHALL BE USED TO FILL VOIDS IN ROCK ARCH RAPIDS, PER DNR DIRECTION.
10. ADD CHOKO STONE AND COMPACT TO FILL VOIDS FOR EVERY 2 VERTICAL FEET OF BASE STONE INSTALLED.
11. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF THE RIVER CHANNEL, INCLUDING ACCESS ROAD, STAGING AREA, AND OVERBANK AREAS. CONTRACTOR SHALL ROTOTILL SOILS TO A 6" DEPTH IN AREAS WHERE COMPACTION OCCURRED DUE TO CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS PER THE EROSION CONTROL PLAN AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION, SPECIFICATIONS, AND WARRANTY REQUIREMENTS WITH ENGINEER.
12. CONTRACTOR SHALL REPLACE ANY FENCE DISTURBED DURING CONSTRUCTION TO DNR'S SATISFACTION.
13. CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN EROSION CONTROL UNTIL ESTABLISHMENT OF PERMANENT GROUND COVER.
14. TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD).
15. CONTRACTOR SHALL CONTACT THE BUCHANAN COUNTY ENGINEER A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
16. DNR TO PROVIDE CONSTRUCTION STAKING.
17. ALL BASE STONE AND WEIR STONE SHALL BE IOWA DOT CERTIFIED REVETMENT (RIPRAP) OR NATIVE STONE WITH A MINIMUM SPECIFIC GRAVITY OF 2.65.
18. WEIR ROCK PLACEMENT IS TO MEET A VERTICAL TOLERANCE OF 0.1'.
19. QUANTITIES FOR EXCAVATION, SPOIL, AND BASE STONE MAY BE REDUCED IF BEDROCK IS ENCOUNTERED. REMOVAL OF BEDROCK IS NOT PROPOSED. CONTACT DNR IF BEDROCK IS ENCOUNTERED.
20. THE ENGINEER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FIELD TO THE DIMENSIONS, STRUCTURE LOCATION, STRUCTURE DETAILS, AND ALL OTHER RELEVANT EROSION CONTROL PRACTICES NEEDED TO PRESERVE TREES AND OTHER HABITAT AND TO FIT SITE CONDITIONS.
21. IF ARCHEOLOGICAL SITES AND/OR CONTAMINATION (SITES) ARE LOCATED DURING CONSTRUCTION, THEN STOP WORK IMMEDIATELY AND CALL ENGINEER.
22. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
23. ALL TOPOGRAPHIC AND HYDROGRAPHIC SURVEYS, INCLUDING CONTROL POINTS, WERE PROVIDED BY IOWA DNR.

NO.	REVISION	BY	DATE
1	UPDATE WEIR STONES BID ITEMS	PDS	10-24-2018
DESIGNED: PDS	PROJECT NO.: 038.005		
DRAFTED: BAY	FILE NUMBER: 038.005		
CHECKED: LTL	SHEET NO.: C 01		
SCALE: NO SCALE	DATE: SEPTEMBER 19, 2018		

**LITTLETON DAM MITIGATION
WAPSIPINICON RIVER
LITTLETON, IOWA
GENERAL NOTES**

LT LEON
ASSOCIATES INC.
500 EAST LOCUST STREET SUITE 400
DES MOINES IOWA 50309
office 515-422-7016
www.ltleon.com

PROJECT NO. 038.005

GENERAL NOTES

SHEET NO.

C.01