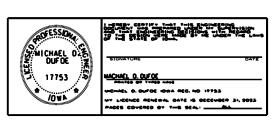
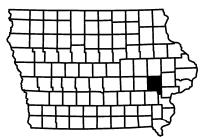
IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS **FOR** HAWKEYE WILDLIFE UNIT NORTH ROAD & BABCOCK ACCESS ROAD MAINTENANCE

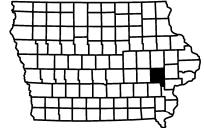
JOHNSON COUNTY, IOWA

PROJECT # 21-06-52-02 DOT Project# SP-00SP(5)--7C-00





| | DIRE | CTORY | |
|-----------------|--------------------------------------|------------------------|--------------------------------------|
| PROJECT MANAGER | | CONSTRUCTION INSPECTOR | |
| COMPANY | IOWA DEPARTMENT OF NATURAL RESOURCES | COMPANY | IOWA DEPARTMENT OF NATURAL RESOURCES |
| ADDRESS | 502 EAST 9TH STREET | ADDRESS | |
| CITY,STATE,ZIP | DES MOINES, IA, 50319 | CITY,STATE,ZIP | |
| CONTACT | EMMANUEL SANG | CONTACT | MICHAEL DUFOE |
| TELEPHONE | 515-321-7005 | TELEPHONE | 515-985-9196 |
| FAX | 515-725-8458 | FAX | |
| EMAIL | emmanuel.sang@dnr.iowa.gov | EMAIL | michael.dufoe@dnr.iowa.gov |



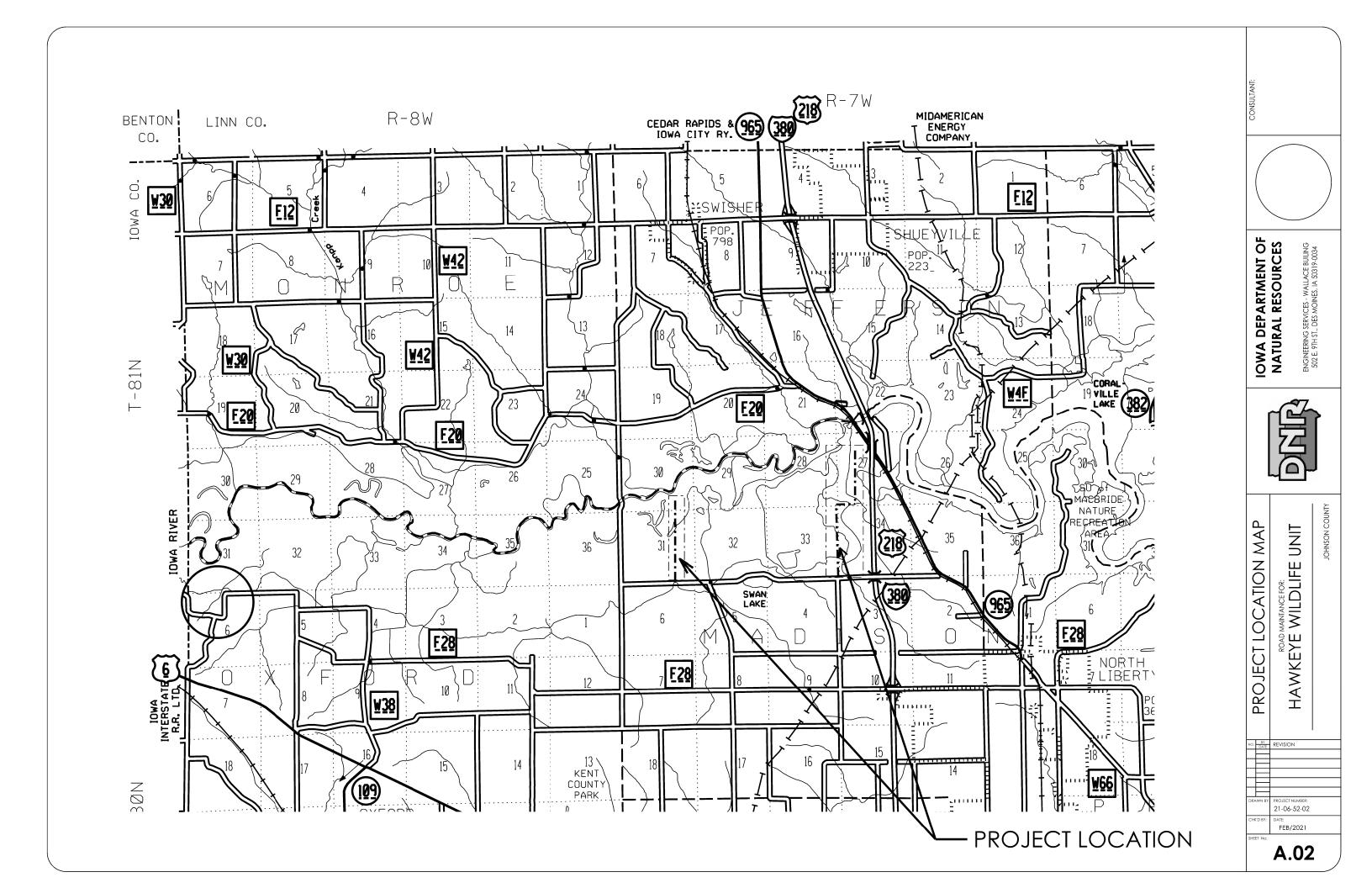
| THIS PROJECT INVOLVES PLACEMENT OF 920 TONS OF CLASS A CRUSHED STONE, |
|----------------------------------------------------------------------------|
| 7 ACRES OF DITCH CLEARING, 760 LINEAR FEET OF CUTTING DITCHES, 44 STATIONS |
| OF BLADING AND SHAPING, REPLACING A 48" DIA. AND 12" DIA. CMP CULVERTS |
| LOCATED IN THE HAWKEYE WILDLIFE UNIT IN JOHNSON CO., IA. |
| |

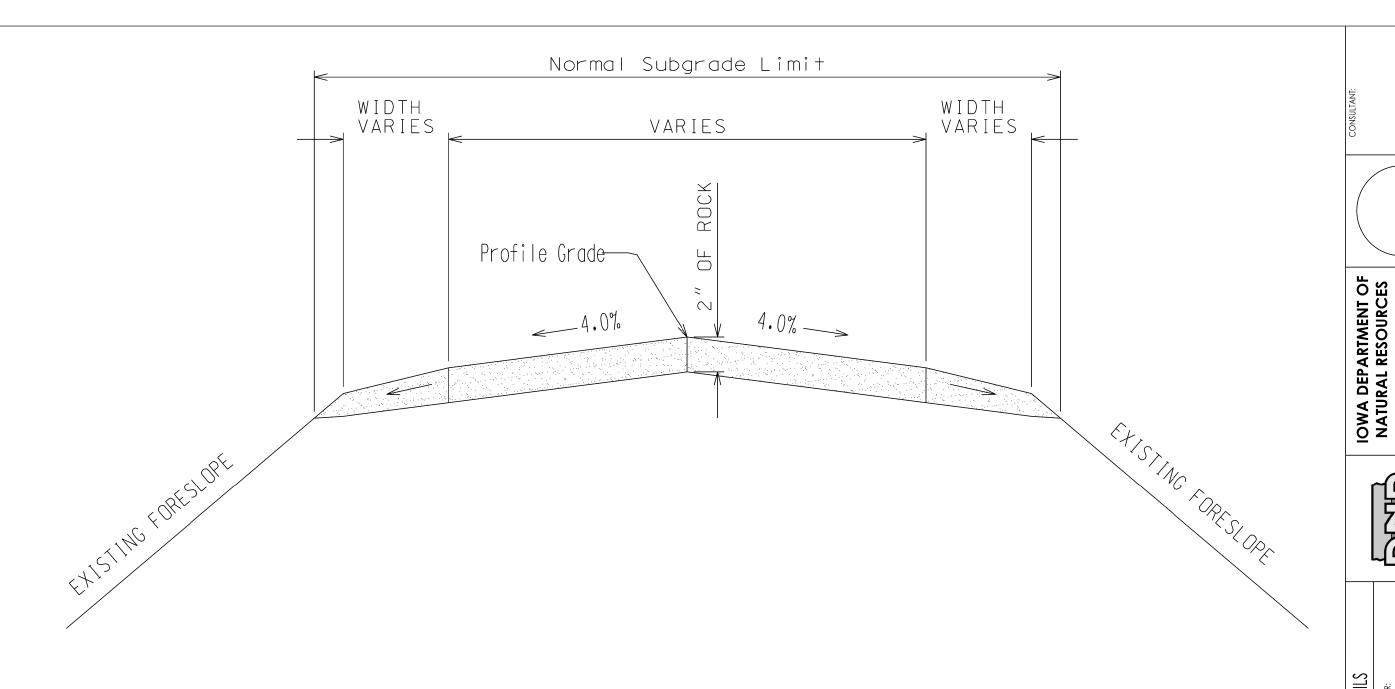
PROJECT DESCRIPTION



| AUTHORIZATION TO | RID |
|----------------------------------------------------------|------------------------|
| | |
| | |
| AUTHORIZATION - PARKS WILDLIFE FISHERIES LAW ENFOR | CEMENT FORESTRY DATE |
| | |
| | |
| ENGINEERING BUREAU CHIEF | DATE |

| | | SHEET INDEX | |
|---------------------------------------------|-------------------|------------------------------------|--------------|
| | | COVER SHEET | A.01 |
| | | LOCATION MAP | A.02 |
| | CONSULTANT: | TYPICAL DETAILS TYPICAL DETAILS | B.01 B.02 |
| | SULT | DR 101 | B.03 |
| | NO. | EC-204 | B.04 |
| | | QUANTITIES AND GENERAL INFORMATION | C.01 |
| | | SITE PLAN BABCOCK ACCESS | D.01 D.02 |
| | / | NORTH WEST ROAD ACCESS | D.02 |
| | / | NORTH WEST ROAD ACCESS | D.04 |
| | / | | |
| | (| | |
| | | | |
| | \ | | |
| | | | |
| . | 뽀 | | |
| Щ | 0 | | |
| SOURCES | | | |
| ₹ 5 | I ⊞ | | |
| Ö | I≧ | | |
| ŭ | بح | | |
| | P / | | |
| ₹ : | | | |
| 5 | 4 | | |
| NATURAL RE | \geq | | |
| Ž | OWA DEPARTMENT OF | | |
| | _ | | |
| | | | |
| ~ | | | |
| | | | |
| 7. | | | |
| (4 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| _ | | | |
| \overline{z} | | | |
| IN | | | |
| ш | — | | |
| ــــــــــــــــــــــــــــــــــــ | Щ | | |
| | 一半 | | |
| | S | | |
| ŽĮ 🕇 | 2 | | |
| ^ W ○ | /E | | |
| ROAD MAINTANCE FOR: HAWKEYE WILDLII | COVER SHI | | |
| ு ப | $ \mathcal{Y} $ | | |
| X | \cup | | |
| > | | | |
| \leq | | | |
| 上 | | | |
| | | | |
| | | | |
| REVISION | NO. BY DATE | | |
| | H | | |
| | 臣 | | |
| | H | | |
| PROJECT NUMBE | DRAWN BY: | | |
| 21-06-52-0 | | + | |
| DATE: FEB/202 | CHK'D BY: | | |
| | SHEET No: | | |
| A.0 | | | |
| | | | |
| | | | |





Typical Roadway Section - Center Crown

Note:

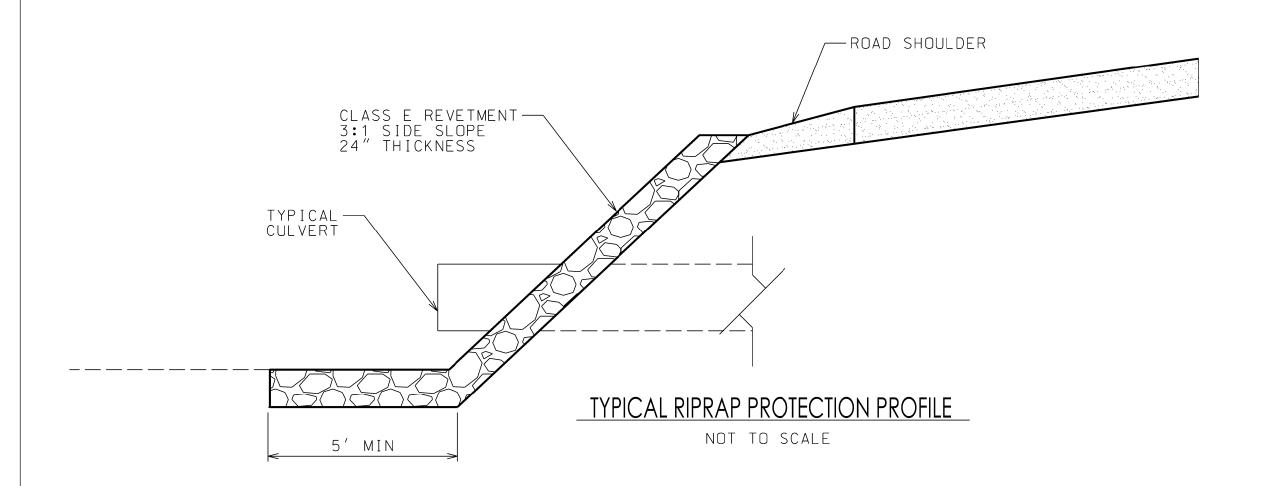
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer.

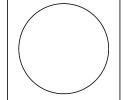
| STATION | TO STATION | LOCATION | WIDTH |
|---------|------------|------------|-------|
| 0+00 | 11+42 | BABCOCK | 16′ |
| 0+00 | 32+61 | NORTH WEST | 18′ |
| | | | |

TYPICAL DETAILS

ROAD MAINTANCE FOR:
HAWKEYE WILDLIFE UNIT

B.01





IOWA DEPARTMENT OF NATURAL RESOURCES

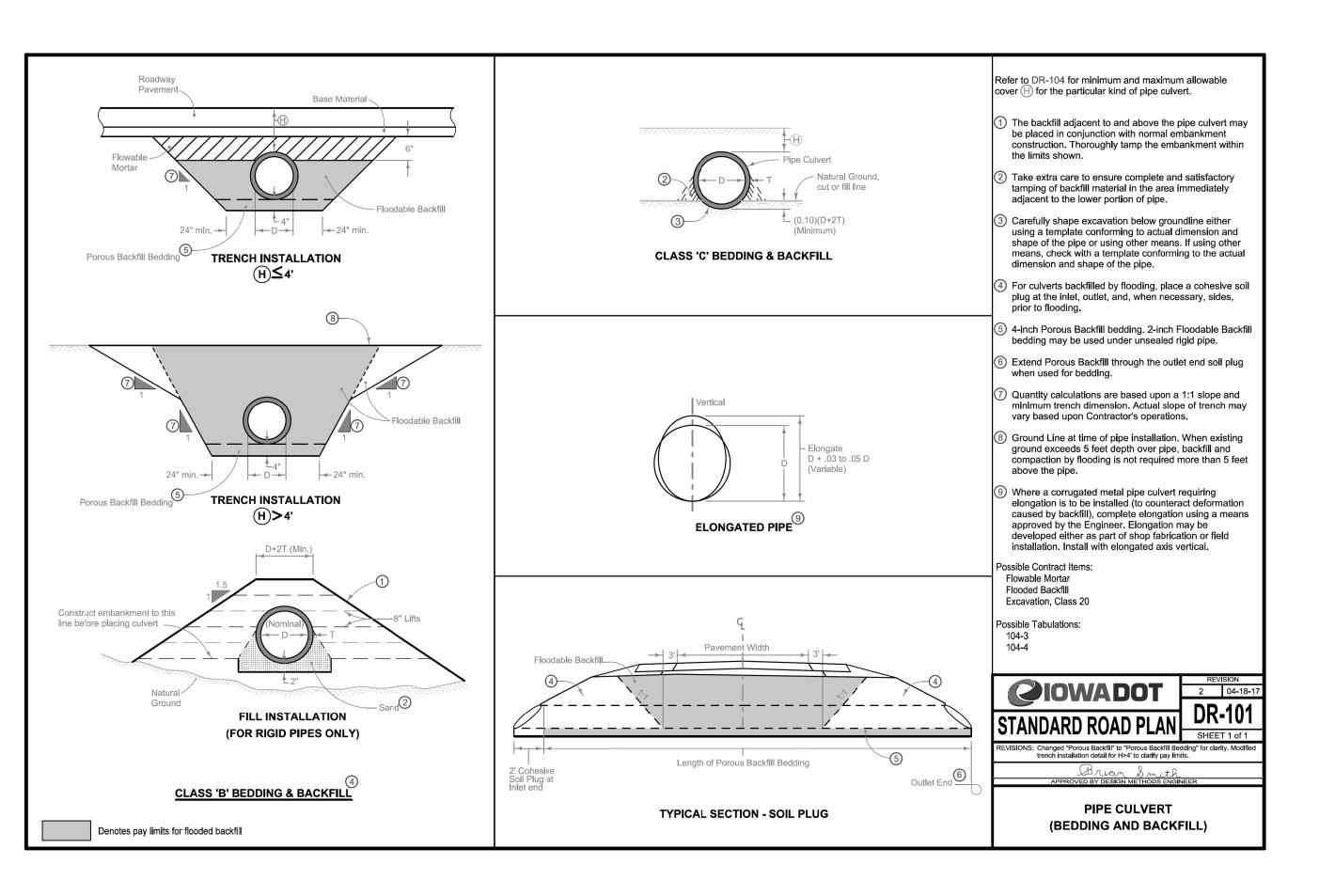
ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034

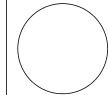


ROAD MAINTANCE FOR:
HAWKEYE WILDLIFE UNIT TYPICAL DETAILS

| NO. | BY DATE | REVISION |
|-----|------------|--------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| DRA | WN BY: | PROJECT NUMBER: 21-06-52-02 |
| CHR | "D BY: | DATE: FEB/2021 |
| SHE | ET No: | |

B.02





OWA DEPARTMENT OF NATURAL RESOURCES

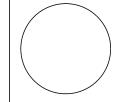
ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034



WILDLIFE UNIT 101 꿈 HAWKEYE NO. BY REVISION 21-06-52-02

B.03

FEB/2021



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034



WILDLIFE UNIT ROAD M HAWKEYE

WATTLE DETAIL

NO. BY DATE REVISION

21-06-52-02 FEB/2021

B.04

| Verify actual locations and elevations with DNR Engineer. |
|----------------------------------------------------------------------------------------|
| All work shall conform to and be performed in accordance with all applicable codes and |

The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

COMPLETION DATE NOTE:

ordinances.

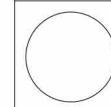
ALL WORK, EXCEPT REMOVING TREES GREATER THAN 6" DIA., SHALL BE COMPLETED BY SEPTEMBER 2, 2022, REMAINING TREE REMOVAL WORK TO BE COMPLETED BY NOVEMBER 11, 2022.

CONSTRUCTION NOTE

ANY TREES LARGER THAN 6" DIA. SHALL NOT BE DOWNED BETWEEN APRIL 1, 2022 AND OCTOBER 1, 2022. CONTRACTOR SHALL WORK AROUND LARGE TREES TO COMPLETE ROAD AND DITCH SHAPING (WHERE POSSIBLE) AND WILL NEED TO RE-MOBILIZE TO DOWN/REMOVE TREES AFTER OCTOBER 1, 2022

CONSTRUCTION SPECIFICATIONS:

ALL CONSTRUCTION SPECIFICATION SHALL BE IN ACCORDANCE WITH IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION



IOWA DEPARTMENT OF NATURAL RESOURCES



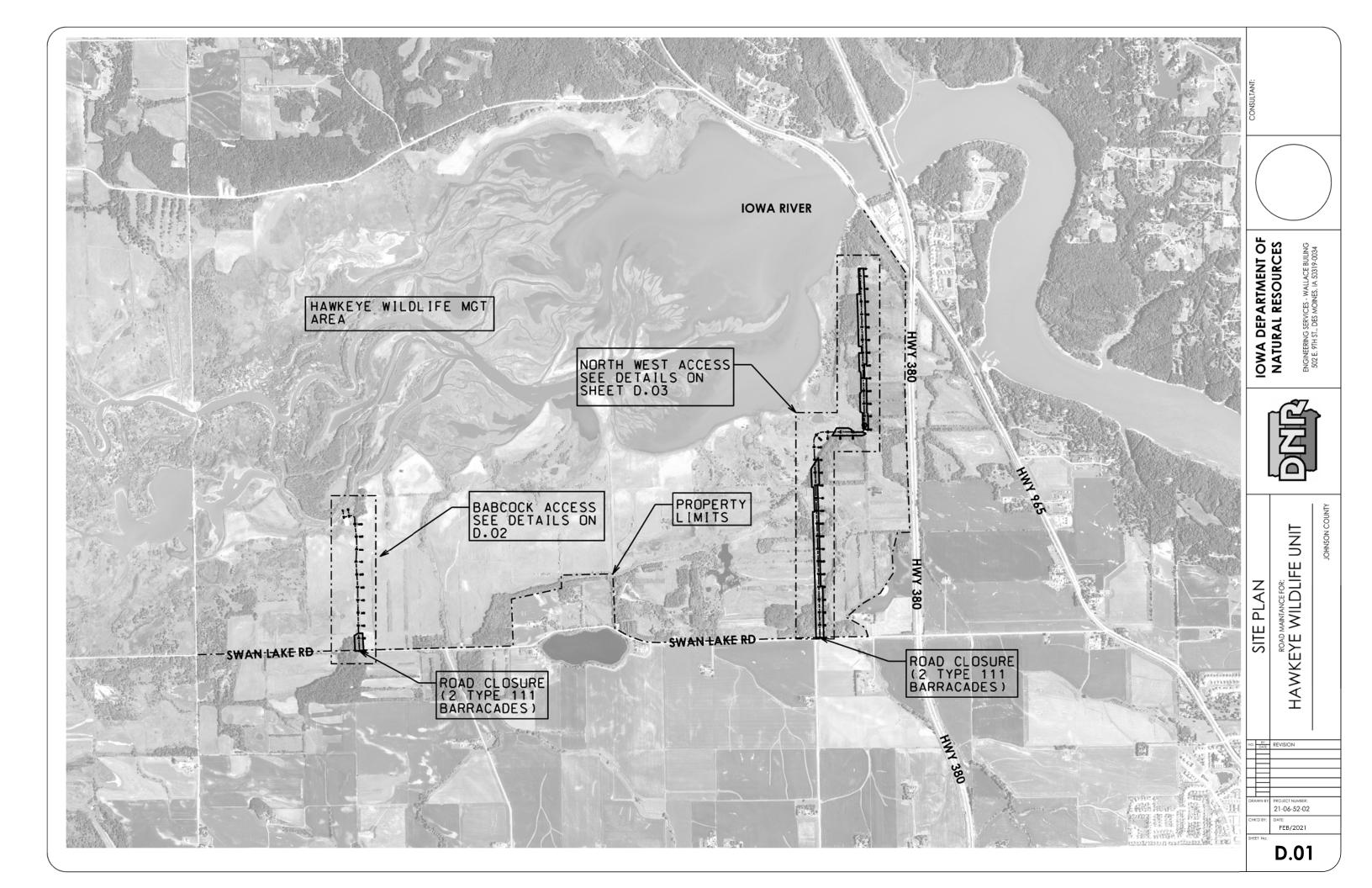
WILDLIFE UNIT HAWKEYE

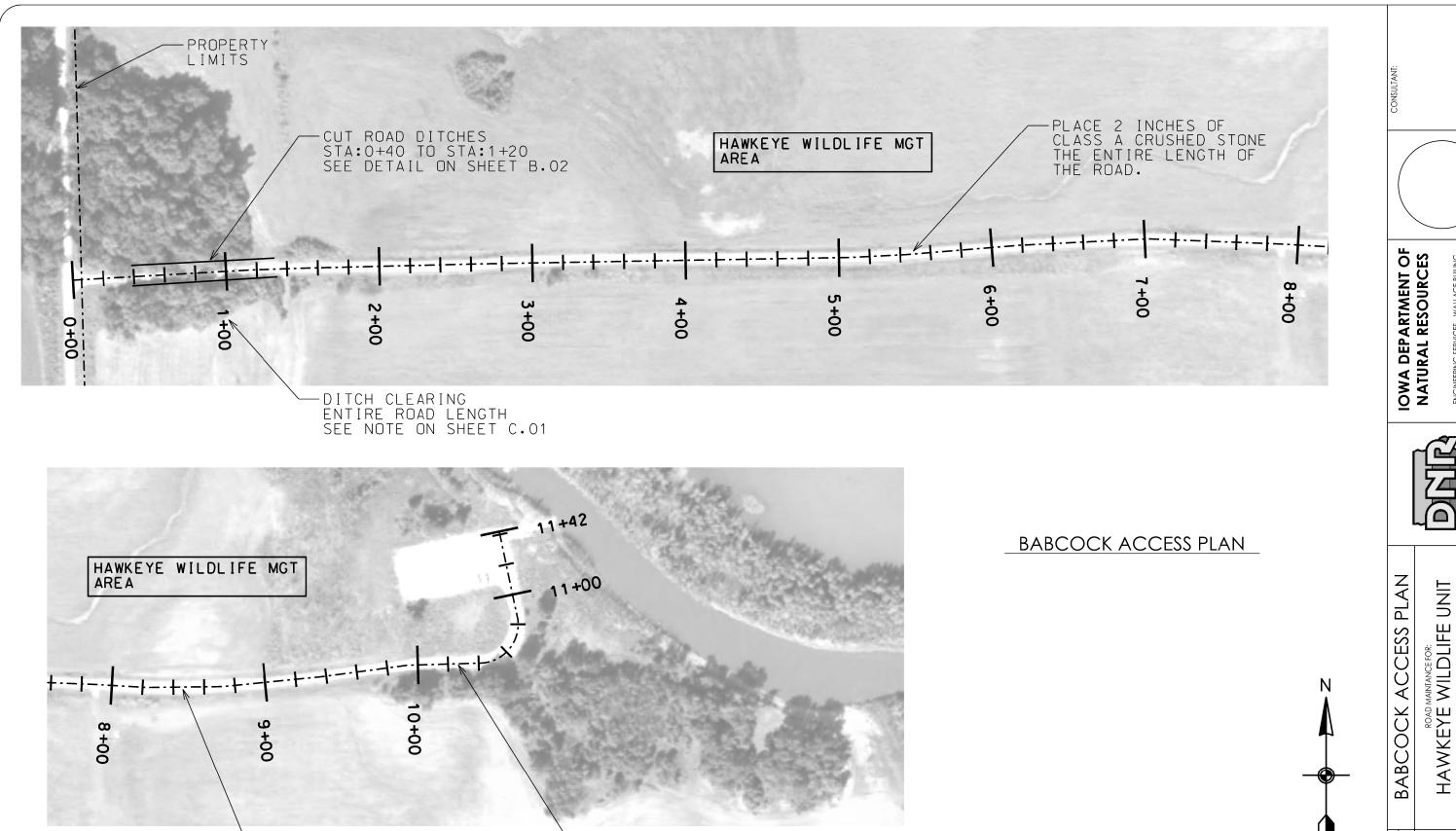
QUANTITIES AND GENERAL INFORMATION 21-06-52-02 FEB/2021

C.01

| M NO. | ITEM | UNIT | TOTAL 1 |
|-------|-------------------------------------------------------|-------|---------|
| 1 | MOBILIZATION | L.S | |
| 2 | DITCH CLEARING | ACRES | 7 |
| 3 | RESHAPING AND CUTTING DITCHES | L.F | 760 |
| 4 | GRANULAR SURFACING ON THE ROAD, CLASS A CRUSHED STONE | TONS | 920 |
| 5 | BLADING AND SHAPING | STA. | 44 |
| 6 | REVETMENT CLASS 'E' | TONS | 20 |
| 7 | CULV,CMP RDWAY 48" DIA. NEW | L.F | 44 |
| 8 | CULV,CMP RDWAY 12" DIA. | L.F | 40 |
| 9 | REMOVAL CULV,CMP RDWAY 48" DIA. | L.S | 1 |
| 10 | REMOVAL CULV,CMP RDWAY 12" DIA. | L.S | . 1 |
| 11 | SILT FENCE | L.F | 110 |
| 12 | 9" DIA. STRAW WATTLE | L.F | 400 |
| 13 | SEEDING MULCHING AND FERTILIZATION | ACRES | .5 |
| 14 | TRAFFIC CONTROL | L.S | 1 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | ŝ |
| | | | |
| | | | |
| | | | |
| | ESTIMATE REFERENCE INFORMAT | ION | |

DITCH CLEARING CLEAR AND GRUB TREE AND SHRUBS ALONG THE ROADWAY THAT ARE WITHIN MAX OF 20 FEET FROM THE SHOULDER EDGE. THIS SHALL BE PERFORMED ON BOTH SIDES, THE DNR STAFF SHALL MARK THE LIMITS OF CLEARING, REMOVE TREES/BRUSH AND ROOT BALL COMPLETELY, (I.E THE AREA HAS TO BE MOWABLE). THE CONTRACTOR SHALL DISPOSE ALL MATERIAL OFFSITE. RESHAPING AND CUTTING DITCHES CUT NEW DITCHES AS SHOWN ON THESE PLANS. CLEAN/RESHAPE TO MAINTAIN POSITIVE FLOW FOR DRAINAGE. DISPOSE OF SPOIL OFF SITE. QUANITY INCLUDES DITCHES ON BOTH SIDES OF THE ROAD. THE DNR FIELD ENGINEER SHALL MARK THE BEGINNING AND END OF DITCHES. GRANULAR SURFACING ON THE ROAD, CLASS A CRUSHED STONE: BID ITEM IS FOR SUPPLY, PLACING AND COMPACTING OF 2 INCHES OF CLASS `A' CRUSHED STONE ON THE ROADWAY, AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL USE A VIBRATORY ROLLER .THE MATERIAL SHALL MEET THE SHALL MEET IOWA D.O.T STANDARD SPECIFICATIONS OF HIGHWAY AND BRIDGE SECTION 4120 SERIES 2015 PLUS CURRENT SUPPLEMENTAL SPECIFICATION AND SPECIAL PROVISION. MATERIAL SHALL BE APPROVED IA DOT SITE THIS BID ITEM IS FOR RE -ESTABLISHING ROADWAY CROWN, +-4% POSITIVE DRAINAGE EACH WAY FROM CENTER LINE, ALSO SCARIFYING AND REPAIRING ANY POTHOLES, COMPACTION AS DIRECTED BY THE DNR FIELD ENGINEER. REVETMENT CLASS 'E' REVETMENT: BID ITEM INCLUDE SHAPING & PLACING REVETMENT ON THE INTAKE AND OUTLET OF ROADWAY CULVERTS STRUCTURES AS SHOWN ON THESE PLANS, THE REVETMENT SHALL MEET IOWA D.O.T STANDARD SPECIFICATIONS OF HIGHWAY AND BRIDGE SECTION 4130 SERIES 2015 PLUS CURRENT SUPPLEMENTAL SPECIFICATION AND SPECIAL PROVISION. BID ITEM INCLUDE EQUIPMENT; MATERIAL ,LABOR REQUIRED TO LEVEL PREPARE TOPSOIL FOR SEEDING ,MULCHING AND FERTERLIZING. ALL DISTURBED AREAS. IA DOT RURAL SEED MIXTURE SHALL BE USED OR OTHERWISE AS DIRECTED BY THE D.N.R FIELD ENGINEER. TRAFFIC CONTROL BID ITEM IS FOR SUPPLY AND INSTALLATION OF TYPE III BARRICADE ON BOTH ACCESS ROADS, SEE PLANS SHEET D 01





-DITCH CLEARING ENTIRE ROAD LENGTH SEE NOTE ON SHEET C.01

-PLACE 2 INCHES OF CLASS A CRUSHED STONE THE ENTIRE LENGTH OF

THE ROAD.

200

FEET

ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034

FEB/2021

D.02

