IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS **FOR** SPIRIT LAKE HATCHERY ROAD MAINTENANCE

DICKINSON COUNTY, IOWA

PROJECT # 22-01-30-06 IDOT PROJECT # SP-581-0(2)--7C-30



PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME UNDER THE LAWS OF THE STATE OF IOWA.	

MY LICENCE RENEWAL DATE IS DECEMBER 31, 20 23

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PROJECT DESCRIPTION

This project consists of grading and placing rock on approximately 0.35 miles rock roads, parking lots, and

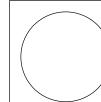


AUTHORIZATION TO BID

AUTHORIZATION - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY DATE

ENGINEERING BUREAU CHIE

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A.02	LOCATION MAP			
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C.02	QUANTITIES AND GENERAL INFORMATION QUANTITIES AND GENERAL INFORMATION	CONSULTANT:		
D.01	SITE PLAN	NO.		
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PROJECT MANAGER

502 EAST 9TH STREET

DES MOINES, IA, 50319

515-205-1698

MANDI L. ALDRICH PETERS

ADDRESS

CONTACT

TELEPHONE

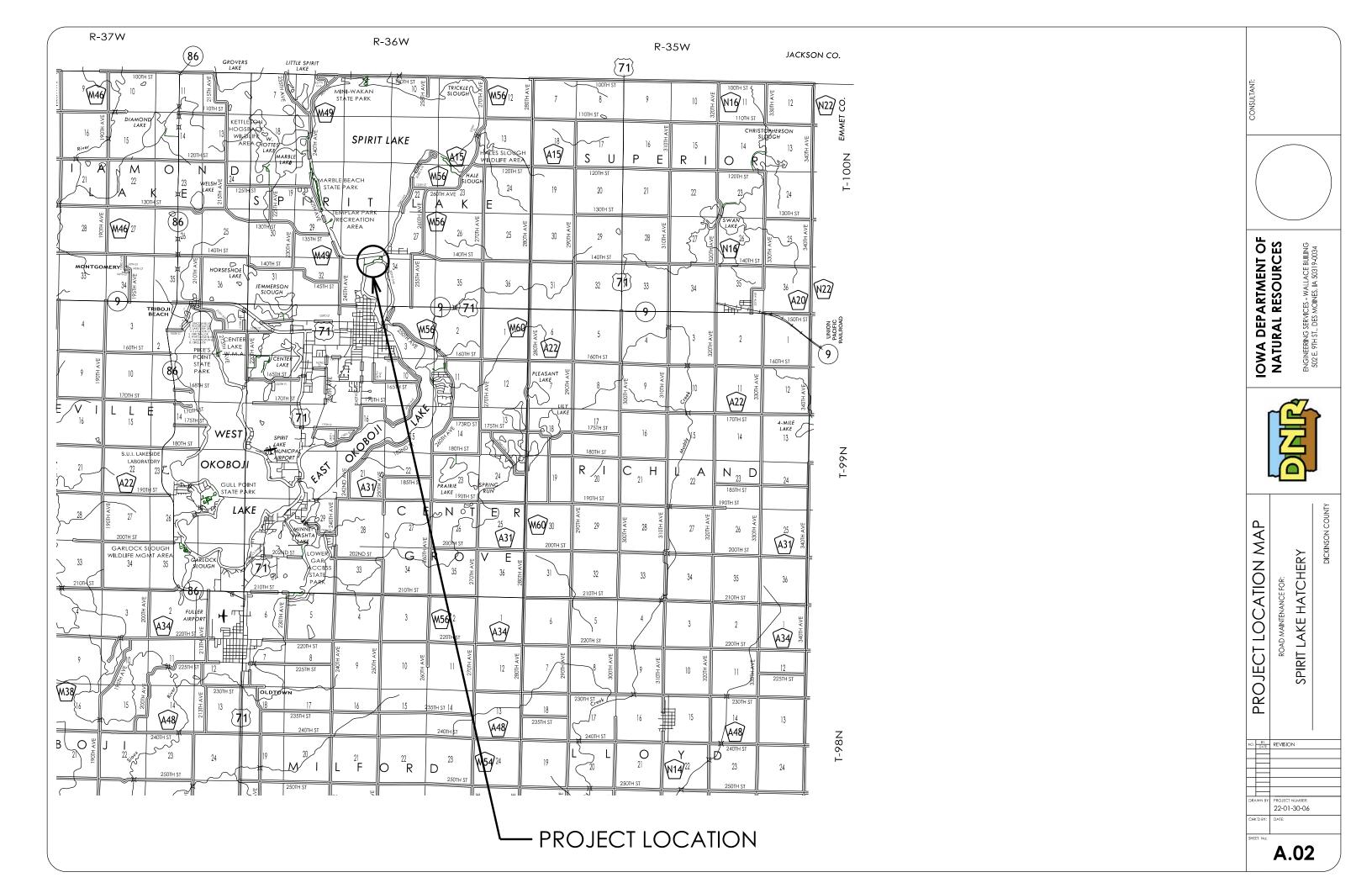
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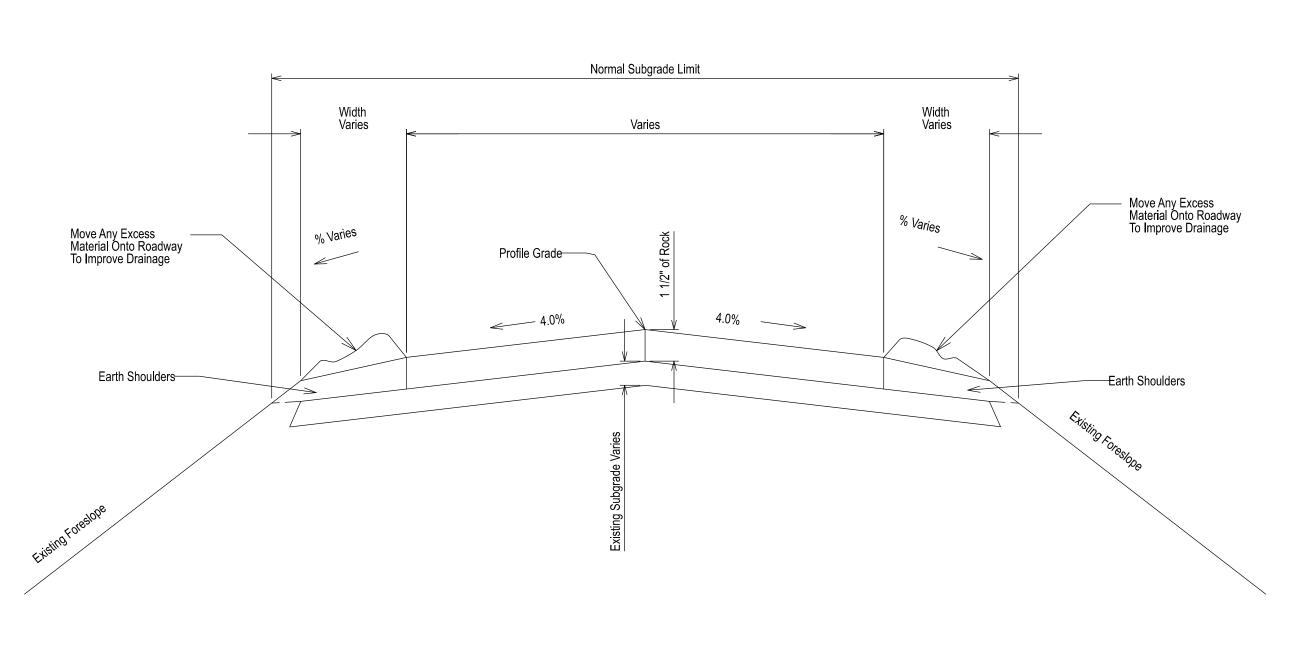
DIRECTORY CONSTRUCTION INSPECTOR IOWA DEPARTMENT OF NATURAL RESOURCES COMPANY IOWA DEPARTMENT OF NATURAL RESOURCES ADDRESS CITY,STATE,ZIF CONTACT JEFF FELTS

515-250-3712

TELEPHONE

EMAIL



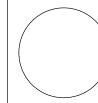


Typical Roadway Section - Center Crown

Note:

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

LOCATION	WIDTH
104+55 - 108+80	20
108+80 - 112+75	16
112+75 - 119+64.5	20
400+10 - 402+99.2	16



IOWA DEPARTMENT OF NATURAL RESOURCES

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



UANTITIES AND GENERAL INFORMATION ROAD MAINTENANCE FOR: SPIRIT LAKE HATCHERY

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NO.	BY DATE	revision
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		22-01-30-06
CHK'D BY:		DATE:

B.01

ITEM NO.	ITEM	UNIT	TOTAL
1	Asphalt Emulsion-Fog Seal (Pavement)	GAL	275
2	Patch, Full-Depth Finish, 6-inch, By Area, HMA	SY	105.6
3	Patch, Full-Depth Finish, 6-inch, By Count, HMA	EACH	4
4	Subbase (Patch)	CY	17.7
5	Transverse Joint Repair	TON	24
6	Longitudinal Joint Repair (HMA)	LF	150
7	Cleaning and Filling Cracks (HMA Surfaces)	MILE	0.5
8	Sealer Material (HMA Surfaces)	LBS	250
9	Slurry Level	MILE	0.5
10	Safety Closure	EACH	4
11	Painted Pavement Marking, High-Build Waterborne	STA	15
12	Painted Symbol+Legend, High-Build Waterborne	EACH	2
13	Signing	EACH	1
14	Reconstruction of Roadbed - Blading/Shaping	STA	19.8
15	Granular Shoulder, Type B	TON	2.2
16	Granular Surface, Class A Crushed Stone	TON	428
17	Traffic Control	LS	1
18	Mobilization	LS	1

NOTES

Coordinate work with the Engineer and staff that will block access to the main doors on the north side and the truck bay on the south side of the hatchery to ensure hatchery operations are not interrupted

	ESTIMATE REFERENCE INFORMATION
ITEM NO.	DESCRIPTION
1	Asphalt Emulsion-Fog Seal (Pavement) A. Dilute with water - 2 parts water, 1 part emulsion. Apply at 0.15 gal/sy
2 3	Patch, Full-Depth Finish, 6-inch, By Area, HMA Patch, Full-Depth Finish, 6-inch, By Count, HMA A. Minimum 48-hour notice to DNR Field Engineer before pouring.
4	Subbase (Patch) A. Contractor shall install 6" Modified Subbase under all patches. B. Preparation of subgrade shall be incidental.
5	Transverse Joint Repair A. Nominal size of transverse joint repair will be 2' wide by 3 inches deep. B. All millings shall be placed and spread in rock parking areas along the roadway as directed in the plans or by the DNR Field Engineer.
6	Longitudinal Joint Repair (HMA) A. Nominal size of longitudinal joint repair will be 6" wide.
13	Signing A. The signs shall be MUTCD R7-8 and R7-8P. B. The sign post shall be Perforated Square Steel Tube (PSST) Posts and Anchors.
14	Reconstruction of Roadbed - Blading/Shaping A. Repair all potholes by scarifying surrounding area to depth of pothole and recompacting. B. Re-establish roadway crown - 4% positive drainage each way from centerline; 4% across the width in banked sections. C. Remove any high shoulder areas before spreading new rock- incorporate into existing roadway- see sheet B.01.
15	Granular Shoulder, Type B A. Class A Crushed Stone shall be placed at 1" depth.
16	Granular Surface, Class A Crushed Stone A. Shall be placed at 1 1/2" depth on the road.

B. Shall be placed at 1" depth on the parking lots.

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

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.

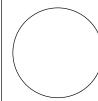
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of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

Unless otherwise directed by the Plans, Specifications, or the DNR Engineer, all trees with a trunk diameter of three inches or greater when measured at breast height, shall be felled between October 1st and March 31st. Brush and debris removal is not restricted by this note.

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.



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SPIRIT LAKE HATCHERY

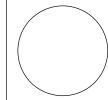
Quantities and general information NO. BY REVISION

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			ROCK R	OAD MAINTENAN	ICE	
LOCATION	LENGTH (FT)	WIDTH (FT)	ROADWAY GRANULAR SURFACE (TON)	PARKING LOT GRANULAR SURFACE (TON)	ROADWAY TJ REPAIRS ASPHALT (TON)	NOTES
104+55 - 108+80	425.00	20	93.7			
108+80 - 112+75	395.00	16	74.6			
112+75 - 119+64.5	689.50	20	140.0	45.6		
400+10 - 402+99.2	289.20	16	59.8	14.0		
	1798.70		368.1	59.6		

SHOULDER ROCK							
LOCATION	LENGTH (FT)	WIDTH (FT)	TON	ROCK MATERIAL			
101+59.3 - 102+45.3	30.00	5	2.2				



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NANTITIES AND GENERAL INFORMATION ROAD MAINTENANCE FOR: SPIRIT LAKE HATCHERY

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NO.	BY DATE	revision
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