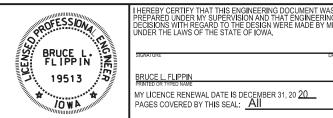
### IOWA DEPARTMENT OF NATURAL RESOURCES

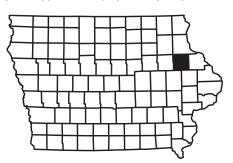
## CONSTRUCTION DOCUMENTS FOR BACKBONE STATE PARK PAVEMENT PRESERVATION

DELAWARE COUNTY, IOWA

DOT PROJECT #SP-00SP(4)—7C-00 DNR PROJECT #21-03-28-01



	PREPARED UNDER MY SUPERVISION AND THAT ENGINEER DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY UNDER THE LAWS OF THE STATE OF IOWA.	
	STGNATURE  BRUCE L. FLIPPIN	DATE
ı	PRINTED OR TYPED NAME	



DIRECTORY			
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	BRUCE L. FLIPPIN	CONTACT	MEL PACOVSKY
TELEPHONE	515-689-8009	TELEPHONE	319-240-3553
FAX	515-281-8685	FAX	
EMAIL	bruce.flippin@dnr.iowa.gov	EMAIL	melvin.pacovsky@dnr.iowa.gov

#### This project consists of HMA pavement maintenance - crack cleaning and filling, patching, fog sealing, pavement milling, PCC repair, shoulder blading, placement of revetment, erosion stone, macadam stone and shoulder rock, culvert replacement, seeding and fertilizing.

PROJECT DESCRIPTION



#### **AUTHORIZATION TO BID**

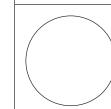
Nick Dellaca Date: 2020.09.15 07:34:56

Digitally signed by Nick

-05'00' AUTHORIZATION - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY DATE

Travis Baker Digitally signed by Travis Baker Date: 2020.09.15 08:41:17 -05'00

	SHEET INDEX
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A.01	LOCATION MAP
C.01	QUANTITIES AND GENERAL INFORMATION
C.02	QUANTITIES AND GENERAL INFORMATION  QUANTITIES AND GENERAL INFORMATION
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D.01	SITE PLAN
D.02	SITE PLAN
D.02	SITE PLAN
D.05	SITE PLAN
D.06	SITE PLAN
D.07	SITE PLAN
D.08	SITE PLAN
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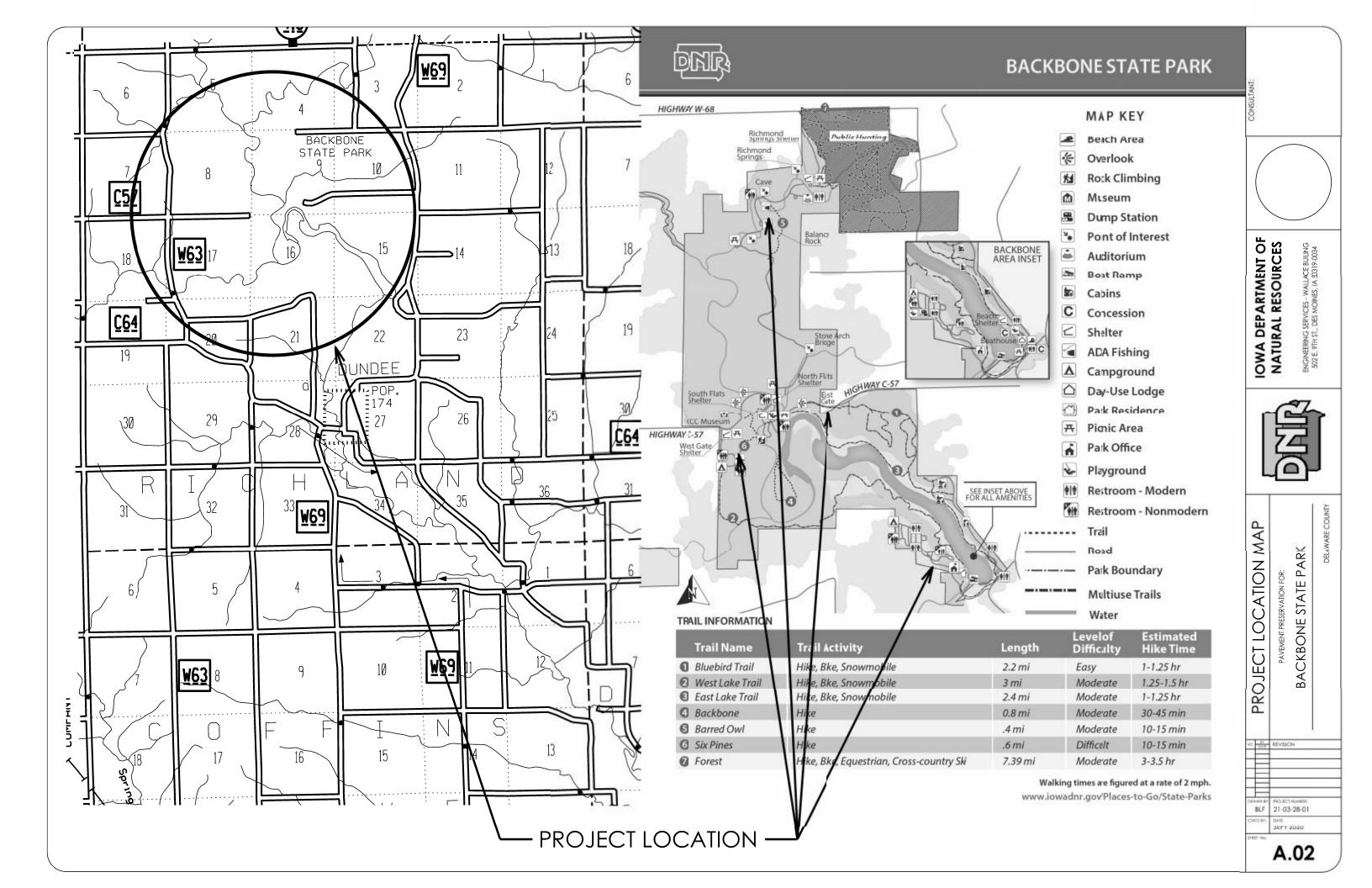
IOWA DEPARTMENT OF NATURAL RESOURCES



PAVEMENT PRESERVATION FOR:
BACKBONE STATE PARK **COVER SHEET** 

NO. BY REVISION

**A.01** 



#### **ESTIMATED PROJECT QUANTITIES**

ITEM NO.	ITEM	UNIT	TOTAL
1	2102 - SPECIAL BACKFILL	TONS	129
2	2102 - EXCAVATION, CLASS 10, ROADWAY AND BORROW	C.Y.	135
3	2121 - GRANULAR SHLD	TONS	45
4	2123 - SHOULDER FINISHING, EARTH	STA	52
5	2214 - PAVEMENT SCARIFICATION	S.Y.	3080
6	2301 - STD/S-F PCC PAV'T, CL C CL 3, 6"	S.Y.	33.3
7	2303 - HOT MIX ASPHALT MIXTURE, COMMERCIAL MIX (INCLUDES ASPHALT BINDER),	TONS	114
	WIDENING, AS PER PLAN		
8	2303 - HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL	TONS	319
	FRICTION REQUIREMENT.		
9	2303 - ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC.	TONS	17
10	2306 - BITUMINOUS FOG SEAL (HMA PAVEMENT)	GAL	3231
11	2416 - CULV, CONC RDWY PIPE, 18"	L.F.	30
12	2506 - FLOWABLE MORTAR	C.Y.	8
13	2507 - REVETMENT, CLASS E	TONS	40
14	2508 - REVETMENT, CLASS E, DITCH CHECK	TONS	90
15	2507 - EROSION STONE	TONS	15
16	2507 - MACADAM STONE	TONS	10
17	2528 - TRAFFIC CONTROL	L.S.	1
18	2529 - PATCH, FULL-DEPTH FINISH, BY AREA. PCC	S.Y.	33.3
19	2529 - PATCH, FULL-DEPTH FINISH, BY COUNT, PCC	EACH	10
20	2529 - PATCH, FULL-DEPTH FINISH, BY AREA. HMA	S.Y.	502
21	2529 - PATCH, FULL-DEPTH FINISH, BY COUNT, HMA	EACH	10
22	2533 - MOBILIZATION	L.S.	1
23	2540 - LONGITUDINAL JOINT REPAIR	L.F.	100
24	2543 - TRANSVERSE JOINT REPAIR	TONS	14
25	2544 - CRACK AND JOINT CLEANING AND SEALING (PAVEMENT MAINTENANCE)	MILE	5.9
26	2544 - HOT MIX ASPHALT FOR CRACK FILLING	TONS	1
27	2544 - SEALER MATERIAL (PAVEMENT MAINTENANCE)	LBS	2950
28	2601 - SEED+FERTILIZE (RURAL)	ACRE	2

ECTIVA VIE	REFERENCE INF	OPMATION
E21IMMA1E	KELEKEINC'E IINE	

	ESTIMATE REFERENCE INFORMATION		
ITEM NO.	DESCRIPTION		
1	A. 6" of rock at HMA and PCC patches.		
2	A. Overexcavate 6" of existing base under HMA and PCC repairs.		
3	A. DOT approved source.		
4	A. Blade existing shoulder material down to drain water away from road.		
5	A. Mill 2-inches off existing surface. Place milling in Park at DNR Field Engineers direction.		
6,7	A. DOT approved source.		
8	A. Submit Job mix to Engineer for approval.		
9	A. DOT approved source.		
10	A. Dilute with water - 2 parts water: 1 part emulsion. Apply at 0.15 GAL/SY.		
11	A. DOT approved source. Remove old culvert from project.		
12	A. Use to plug existing culverts.		
13-16	A. DOT approved source.		
17,19	A. DOT approved source. Dispose of removal off site.		
23	A. 2- feet wide, 3 - inches deep.		
25	A. Seed and fertilize all disturbed areas. DOT approved source.		

#### **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.

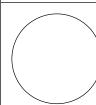
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of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

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.

NO WORK FROM 12 NOON FRIDAYS, UNTIL THE FOLLOWING MONDAY.



IOWA DEPARTMENT OF NATURAL RESOURCES

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

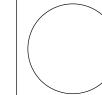
BACKBONE STATE PARK

**2UANTITIES AND GENERAL INFORMATION** 

NO.	BY DATE	REVISION
	WN BY: BLF	PROJECT NUMBER: 21-03-28-01
CHK	'D BY:	SEPT 2020

C.01

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# OWA DEPARTMENT OF NATURAL RESOURCES

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



QUANTITIES AND GENERAL INFORMATION
PAVEMENT PRESERVATION FOR:
BACKBONE STATE PARK

NO DATE REVISION

BY
DATE REVISION

DRAWN BY
BLF 21-03-28-01

HX'D BY: DATE: SEPT 2020 EET No:

C.02

