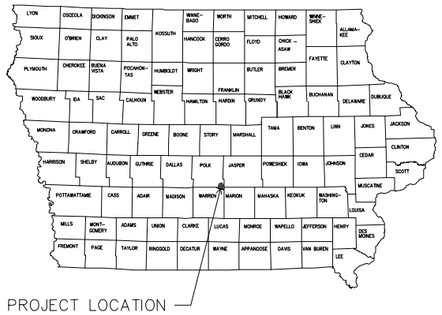
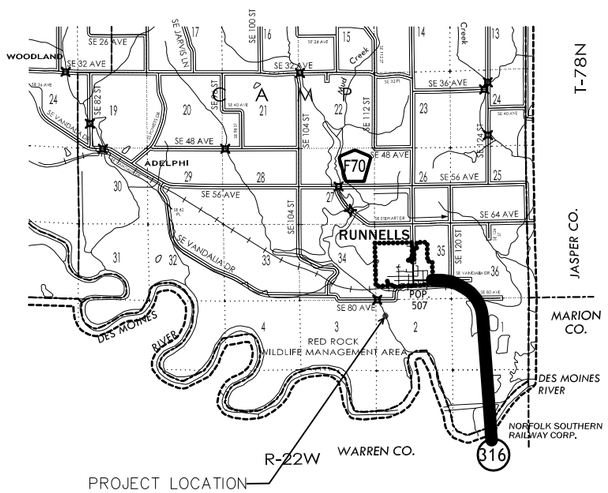


LOCATION MAP

IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR RED ROCK WILDLIFE UNIT MUD CREEK WATER DIVERSION STRUCTURE



PROJECT LOCATION

VICINITY MAP

POLK COUNTY, IOWA

PROJECT # 15-05-77-03

LICENSED PROFESSIONAL ENGINEER
JASON KRUSE
19718
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature 10-16-17 Date

License Number 19718

My license renewal date is December 31, 2017.

Pages or sheets covered by this seal: 1-5

DIRECTORY

PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	806 E. TRAIL RIDGE PLACE	ADDRESS	806 E. TRAIL RIDGE PLACE
CITY,STATE,ZIP	INDIANOLA, IA 50125	CITY,STATE,ZIP	INDIANOLA, IA 50125
CONTACT	JASON KRUSE	CONTACT	JASON KRUSE
TELEPHONE	515-250-3707	TELEPHONE	515-250-3707
FAX	N/A	OFFICE	N/A
EMAIL	JASON.KRUSE@DNR.IOWA.GOV	EMAIL	JASON.KRUSE@DNR.IOWA.GOV

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A SHEET PILE WEIR AND ALUMINUM STOPLOG BAY FOR PURPOSES OF DAMMING A CREEK TO FLOOD A WETLAND.

IOWA ONE CALL
800/292-8989
TOLL FREE
CALL - BEFORE - YOU DIG

SHEET INDEX

1	COVER SHEET
2	LOCATION MAP
3	PLAN VIEW
4	PLAN & PROFILE
5	NOTES & DETAILS

TABLE OF QUANTITIES

1	MOBILIZATION	LUMP SUM
2	PZ22 SHEET PILE, 10' LENGTHS	953.33 SF
3	PZ22 SHEET PILE, 15' LENGTHS	1457.5 SF
4	PZ90, 10' LENGTH	10 LF
5	PZ90, 15' LENGTH	15 LF
6	PZ JOKER, 10' LENGTH	10 LF
7	PZ JOKER, 20' LENGTH	20 LF
8	PZ BULLHEAD, 20' LENGTH	20 LF
9	1" TIE-BACK RODS	2 EACH
10	MC8X20 WALES	48 LF
11	STOPLOG & PLANK LOCKDOWN DEVICES	LUMP SUM
12	INSTALL OWNER-SUPPLIED STOPLOG BAY	LUMP SUM
13	WALK PLANK SUPPORTS	2 EACH
14	30"X22' HEAVY DUTY WALKWAY PLANK	1 EACH
15	LADDER & HANDLES	LUMP SUM
16	CLASS "A" CRUSHED STONE	35 TONS
17	CONCRETE, IOWA DOT C4	45 CY
18	CLEARING & GRUBBING	LUMP SUM
19	CLASS "E" RIPRAP	81 TONS
20	MOVE EXISTING RIPRAP	LUMP SUM
21	ENGINEERING FABRIC	75 SY
22	MACADAM STONE	338 TONS
23	JIB CRANE, TROLLEY, HAND HOIST	LUMP SUM

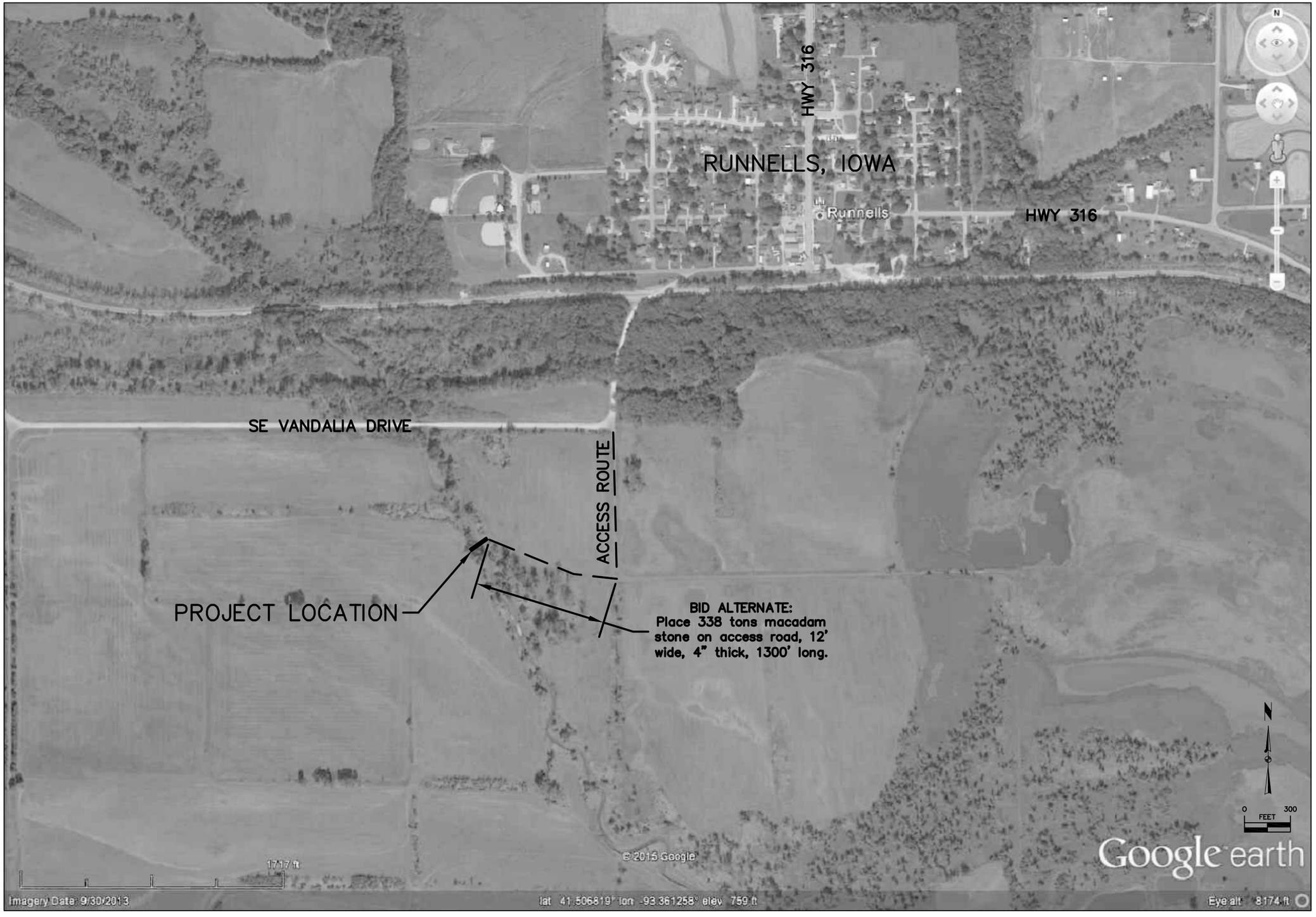
CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

COVER SHEET
RED ROCK WILDLIFE UNIT
MUD CREEK WATER DIVERSION STRUCTURE
POLK COUNTY

NO.	BY DATE	REVISION

DRAWN BY: JKK
PROJECT NUMBER: 15-05-77-03
CHK'D BY:
DATE: 10-2017
SHEET No: 1



CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

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

LOCATION MAP

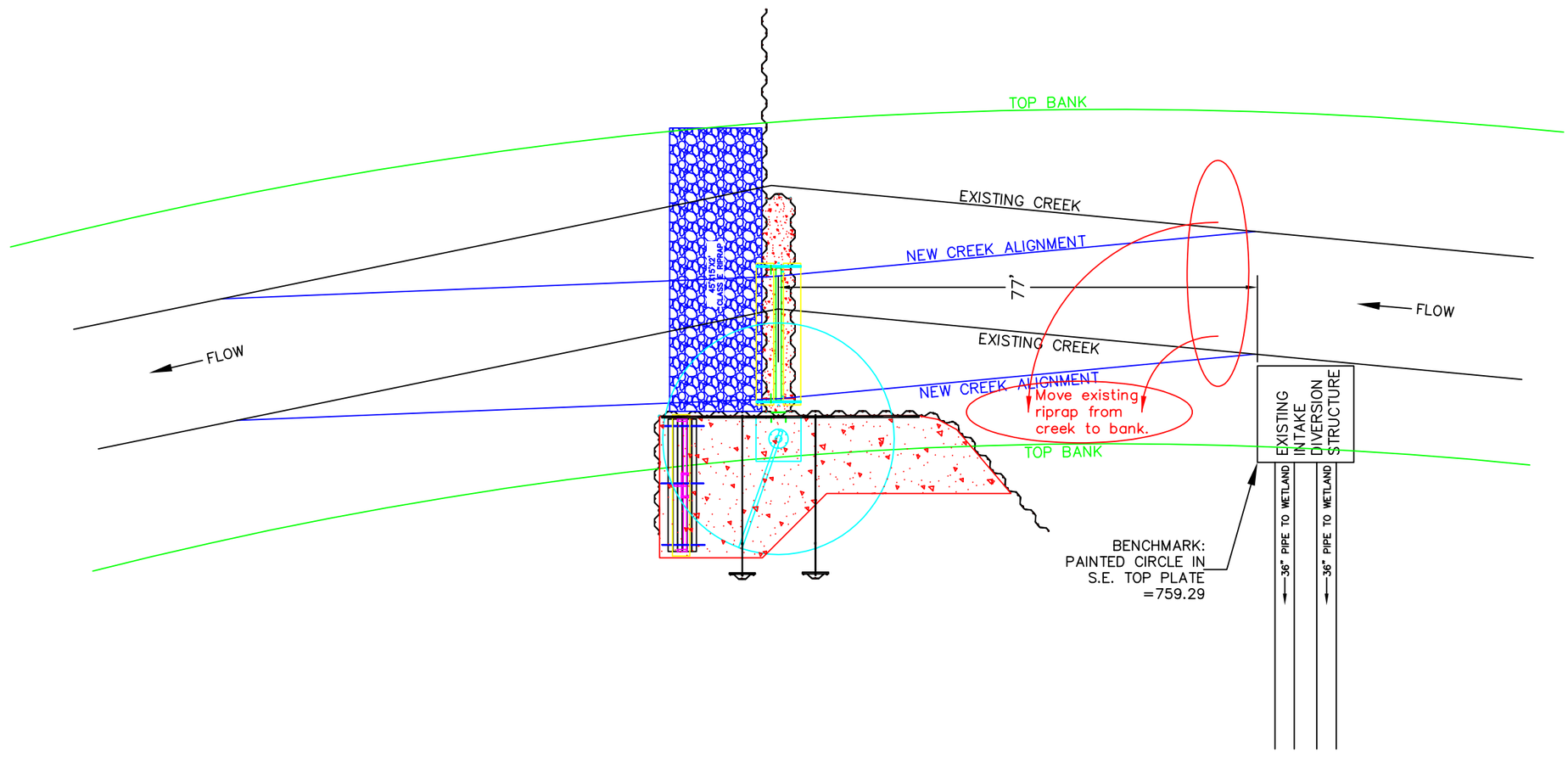
RED ROCK WILDLIFE UNIT

MUD CREEK WATER DIVERSION STRUCTURE

POLK COUNTY

NO.	BY DATE	REVISION

DRAWN BY: JKK
PROJECT NUMBER: 15-05-77-03
CHK'D BY:
DATE: 10-2017
SHEET No: 2



MINOR GRADING WILL BE NEEDED TO MAKE CREEK CHANNEL FLOW THROUGH THE STOPLOG BAY. THIS WORK IS INCIDENTAL TO MOBILIZATION.

0 FEET 20

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

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

PLAN VIEW

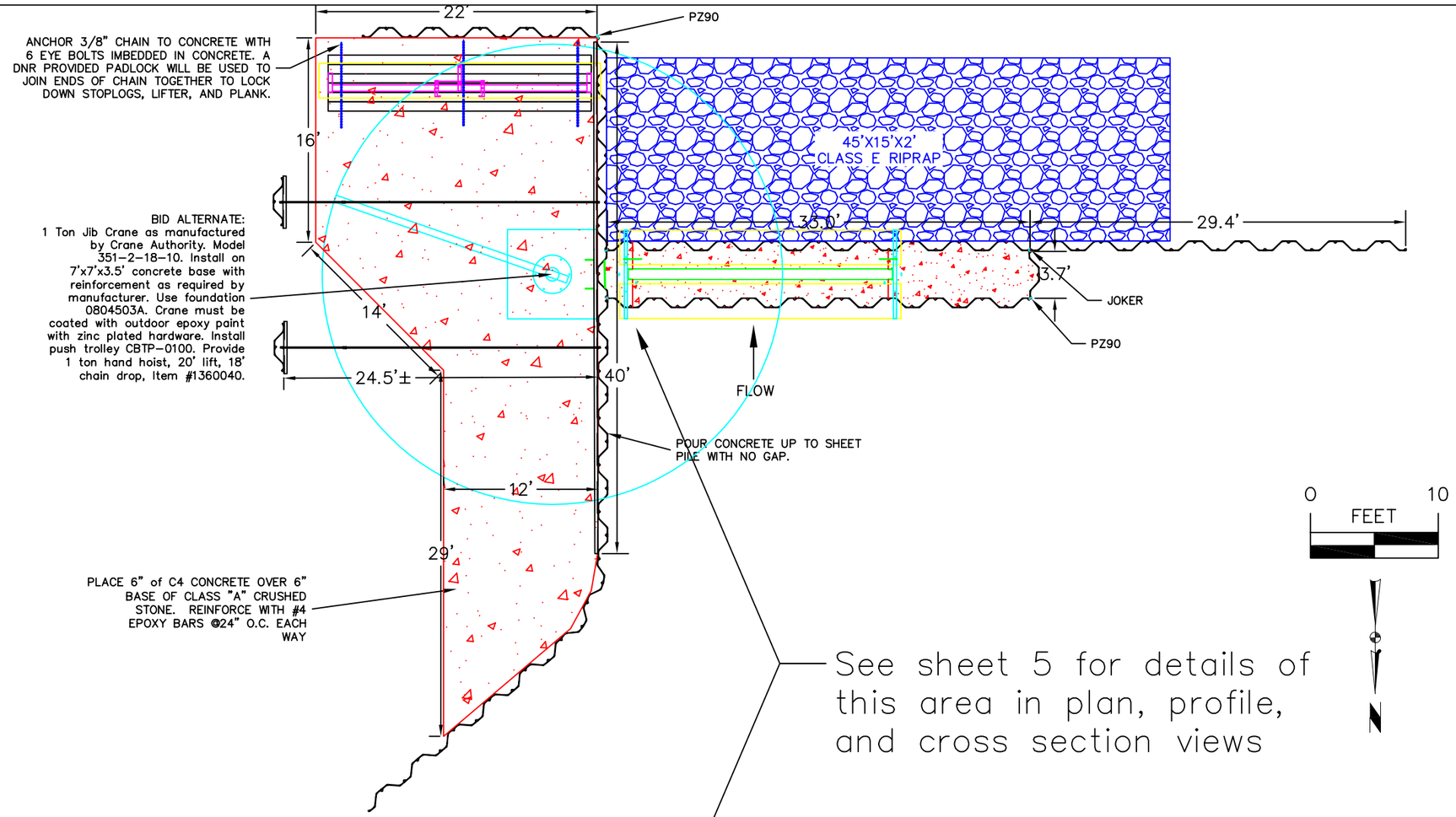
RED ROCK WILDLIFE UNIT

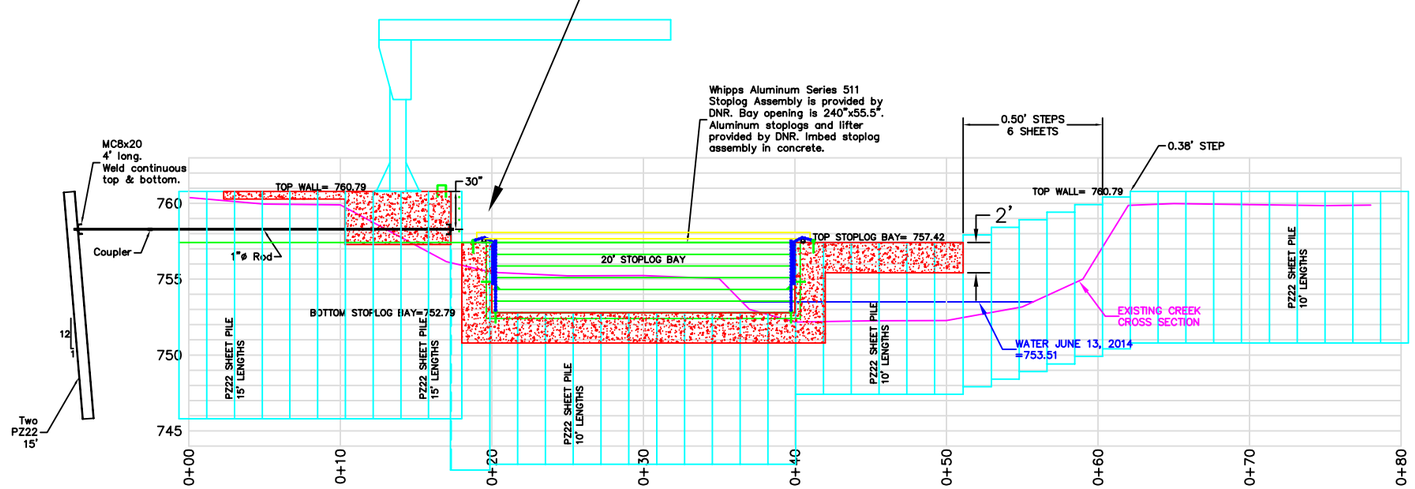
MUD CREEK WATER DIVERSION STRUCTURE

POLK COUNTY

NO.	BY DATE	REVISION

DRAWN BY: JKK
PROJECT NUMBER: 15-05-77-03
CHK'D BY:
DATE: 10-2017
SHEET No: 3





CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

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

PLAN & PROFILE

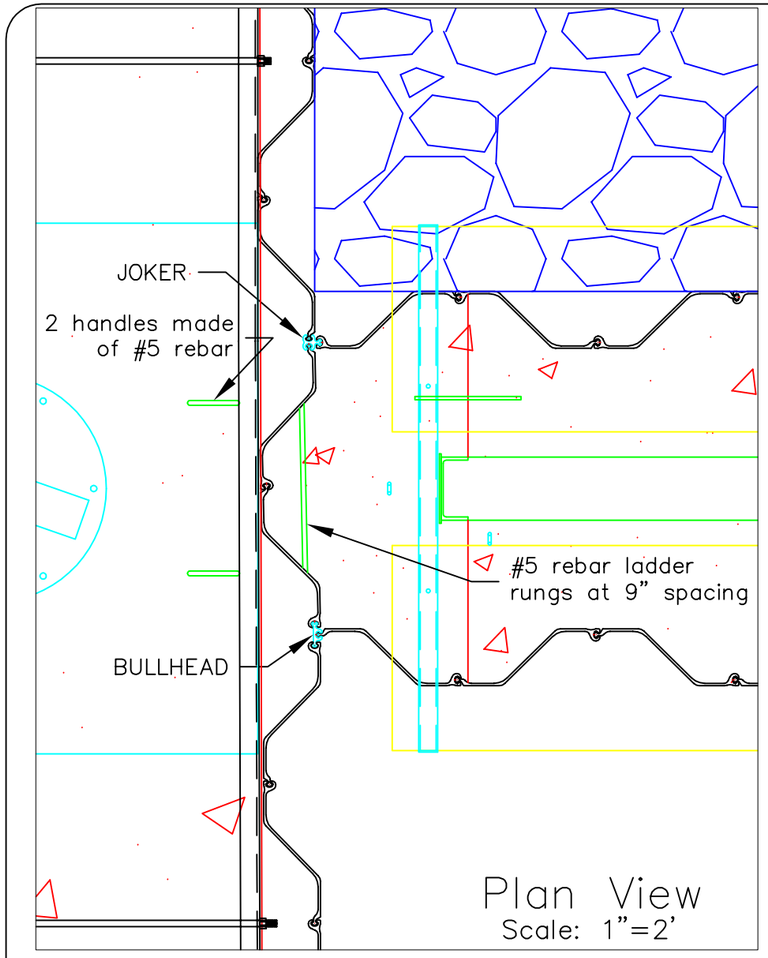
RED ROCK WILDLIFE UNIT

MUD CREEK WATER DIVERSION STRUCTURE

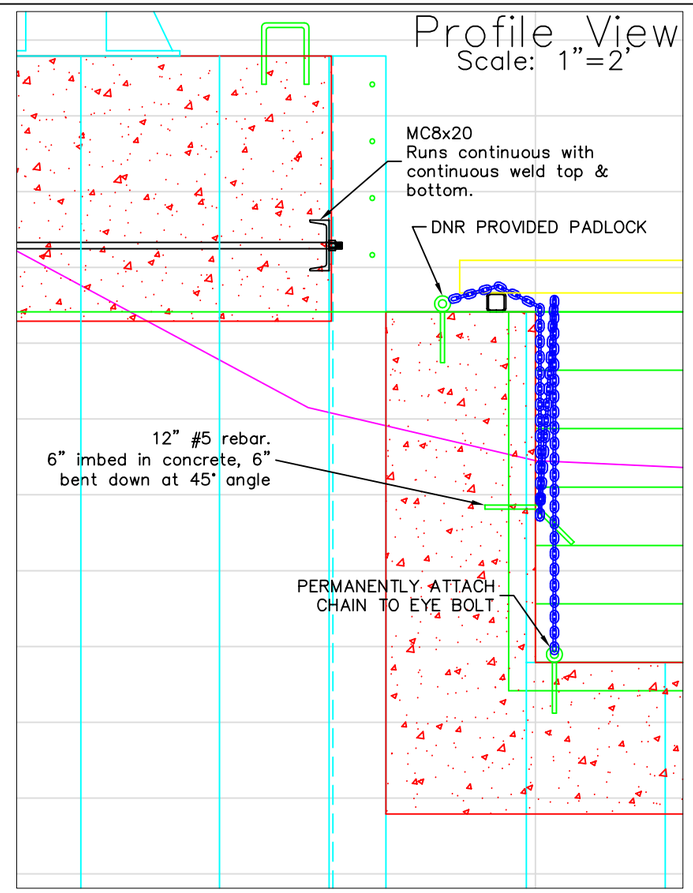
POLK COUNTY

NO.	BY DATE	REVISION

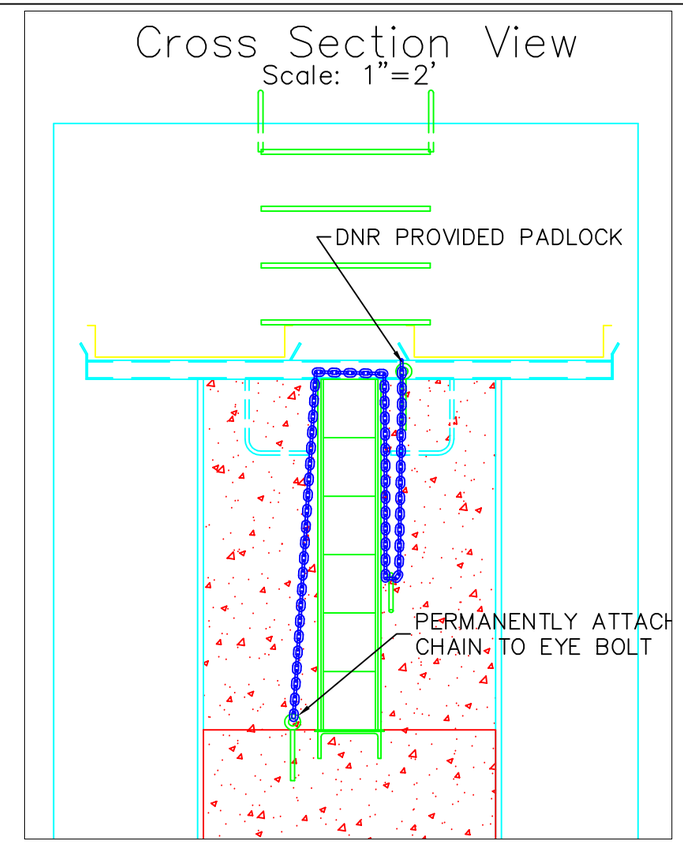
DRAWN BY: JKK
PROJECT NUMBER: 15-05-77-03
CHK'D BY:
DATE: 10-2017
SHEET No: 4



Plan View
Scale: 1"=2'

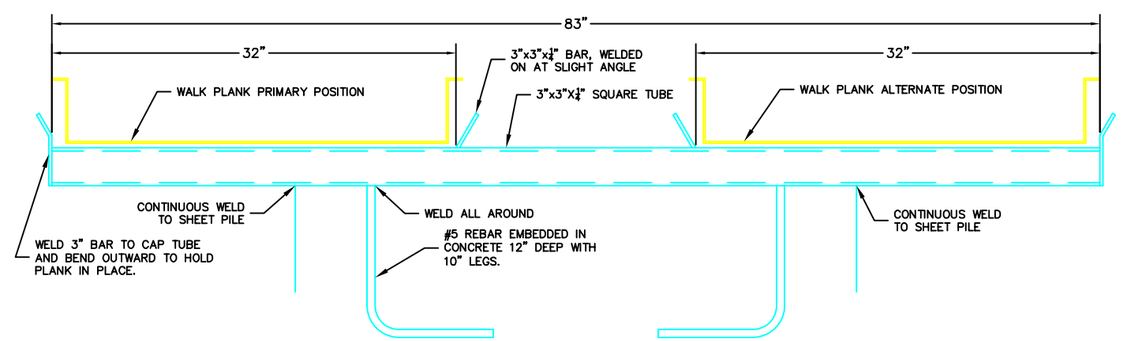


Profile View
Scale: 1"=2'



Cross Section View
Scale: 1"=2'

NOTES:
DO NOT ALLOW WATER TO FLOW OVER FRESHLY PLACED CONCRETE FOR 24 HOURS.
TREES SHALL BE CLEARED IN THE WORK AREA AS REQUIRED AND PILED FOR FUTURE DISPOSAL BY DNR.
WHIPPS ALUMINUM STOPLOG ASSEMBLY WITH ALNUMINUM STOPLOGS AND LIFTING DEVICE WILL BE PROVIDED BY DNR.
CONTRACTOR SHALL HAUL THE ASSEMBLY FROM THE DNR SHOP AT 656 CARPENTER STREET, MONROE, IA TO THE PROJECT SITE.
ALL OTHER MATERIALS ON THE JOB SHALL BE SUPPLIED BY THE CONTRACTOR.



Walk plank shall be McNichols Heavy Duty GRIP STRUT walkway, 30" width, 9 guage, 22' length. Only 1 required, can be used in either location.

Walk Plank Support
Scale: 1"=1'

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILING
502 E. 9TH ST., DES MOINES, IA 50319-0034

NOTES & DETAILS

RED ROCK WILDLIFE UNIT
MUD CREEK WATER DIVERSION STRUCTURE
POLK COUNTY

NO.	BY DATE	REVISION

DRAWN BY: JKK
PROJECT NUMBER: 15-05-77-03
CHK'D BY:
DATE: 10-2017
SHEET NO: 5