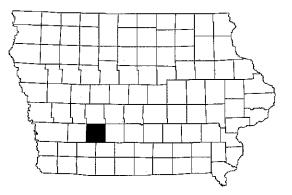
IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS MIDDLE RIVER CANOE RAMP PROJECT MIDDLE RIVER FOREST AREA ADAIR COUNTY, IOWA

DNR PROJECT #18-04-01-01







I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONA SUPERVISION AND THAT I AM A DULY LICENSED PROFE MY LICENSE RENEWAL DATE IS DECEMBER 31, 2019 PAGES OR SHEETS COVERED BY THIS SEAL

DIRECTORY						
PROJECT MANAGER		CONSTRUCTION INSPECTOR				
COMPANY	ICWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES			
ADDRESS	5C2 EAST 9TH STREET	ADDRESS	502 EAST 9TH STREET			
CITY, STATE, ZIP	DES MOINES, IA 50319	CITY,STATE,ZIP	DES MOINES, IA 50319			
CONTACT	BRETT JOHNSON	CONTACT	MARK JOHNSON			
TELEPHONE	515-250-3711	TELEPHONE	515-250-3713			
FAX	515-28'-8685	FAX				
EMAIL	bre:tjohnson@dnr.jowa.gov	EMAIL	mark.johnstm@dm.jowa.gov			

PROJECT DESCRIPTION

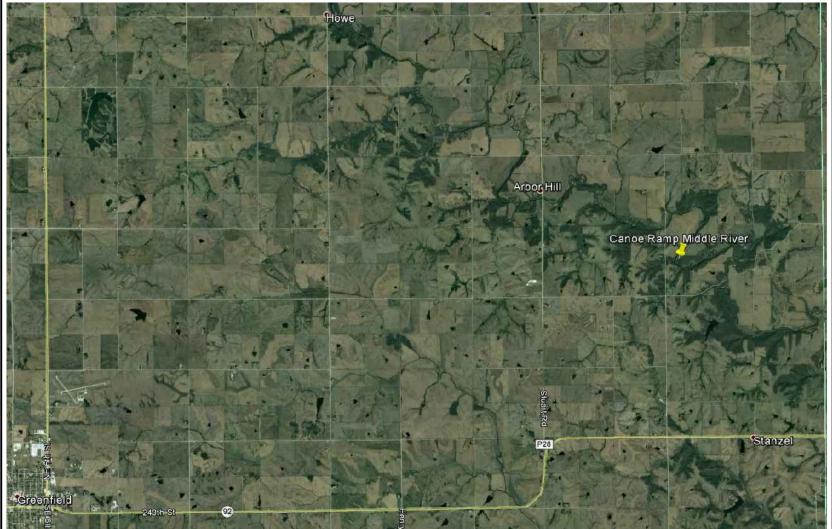
THIS PROJECT CONSISTS OF INSTALLING A PORTLAND CEVENT CONCRETE CANDERSAME ON THE MIDDLE RIVER LOCATED IN ADAIR COUNTY, IOWA AND INCLUDES GRADING, PLACING RIPRAP ALONG RIVER BANKS, AND INSTALLING REINFORCED PORTLAND CEMENT CONCRETE CANGE ACCESS RAMP ONTO THE MIDDLE RIVER.

AUTHORIZATION TO BID

4/30/18

SHEET INDEX COVER SHEE VICINITY MAPS QUANTITIES & GENERAL NOTES SURVEY CONTROL CLEARING AND GRUBBING PLAN DIVENSION PLAN RAMP REINFORÇING DETAILS IOWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING SERVICES - WALLACE BUILING 502 E. 97H ST. DES MOINES, IA 56319-5034 N PROJECT FOR CANOE | **COVER SHEI** RIVER (Ш MIDDLI 18-04-01-01 05/02/2018







MIDDLE RIVER CANOE RAMP LOCATION:

LATITUDE: 41°21'8.77"N LONGITUDE: 94°16'53.28"W

CENSTRUCTION PREJECT FOR:
MIDDLE RIVER CANOE RAMP VICINITY MAP

PROJECT NUMBER: 18-04-01-01 05/02/2018

ESTIMATED PROJECT QUANTITIES

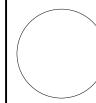
ITEM NO.	ITEM		TOTAL	
1	CLEARING AND GRUBBING		1	
2	GRADING		1	
3	SUBGRADE PREPARATION		90	
4	GRANULAR SUBBASE	TONS	19	
5	CLASS 'A' CRUSHED STONE	TDNS	184	
6	MACADAM STONE	TONS	13	
7	3-INCH CLEAN LIMESTONE	TONS	50	
8	CLASS 'E' RIPRAP	TDNS	425	
9	BROOMED REINFORCED PCC CANDE LAUNCH RAMP	YZ	44.5	
10	6-INCH REINFORCED PCC PAVEMENT	SY	74.6	
11	8-INCH FILTER SOCK	LF	318	
12	SEEDING, FERTILIZING AND MULCHING	AC	0.2	
13	13 MOBILIZATION		1	

GENERAL NOTES

- 1. TWO WEEKS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY:
 - IDWA DNR PROJECT MANAGER: BRETT JOHNSON 515-250-3711
 - DISTRICT INSPECTOR: MARK JOHNSON 515-250-3713
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS). ALL CONSTRUCTION TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS THE EXPENSE OF THE CONTRACTORS.
- 3. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND
- NOTIFY THE ABOVE MENTIONED CONTACTS OF ANY DISCREPANCIES.
- 4. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING FACILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING, THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR FACILITIES BEFORE BEGINNING
- 5. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE SITE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED.
- 6. CONTRACTOR TO PROTECT ALL UTILITY, PAVING, BUILDINGS, ETC. DUTSIDE OF LIMITS OF PROPOSED CONSTRUCTION.
- 7. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE QUANTITIES AND THE PLANS, THE DETAILED PLANS SHALL GOVERN.
- 8. CONTRACTOR SHALL SEED/MULCH ALL DISTURBED AREAS. USE TYPE 2 (PERMANENT COOL SEASON MIXTURE)
- 9. MAINTAIN ALL CUT AND FILL AREAS TO ACCOMMODATE SURFACE DRAINAGE.
- 10. FINISHED GRADE ON ALL NON-PAVED AREAS SHALL BE WITHIN 0.20 FOOT OF PLAN GRADE. PAVED AREAS SHALL BE WITHIN 0.10 FOOT.
- 11. TOPSOIL SHALL BE SPREAD TO A MINIMUM THICKNESS OF 6-INCHES ON ALL DISTURBED UNPAVED AREAS.
- 12. BACKFILL TO THE TOP OF ALL ROCK OR PAVED SURFACES.
- 13, ALL ELEVATIONS ARE TO THE GUTTER GRADE UNLESS NOTED OTHERWISE.
- 14. PROTECT ALL EXISTING TREES AND VEGETATION UNLESS OTHERWISE NOTED.
- 15. SPOIL MATERIAL THAT WILL BE GENERATED FROM GRADING ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AND SHALL BE INCLUDED IN GRADING BID ITEM.
- 16. CONSTRUCTION IS TO BE COMPLETED BY MAY 30, 2019.
- 17. CONTRACTOR TO COORDINATE STAGING AREA WITH INSPECTOR.
- 18. HAUL ROUTE NOTES:
 - -BRIDGE ON 200TH ST WEST OF ENTRANCE ROAD HAS A WEIGHT LIMIT OF 21 TONS -200TH ST EAST OF ENTRANCE ROAD IS A DIRT ROAD
- -BRIDGE ON 210TH ST SOUTH OF THE PARK HAS A 13'11' HEIGHT RESTRICTION, NO WEIGHT RESTRICTION 19. THE IDWA DNR WILL PROVIDE THE CONSTRUCTION SURVEY STAKING FOR THIS PROJECT.

ESTIMATE REFERENCE INFORMATION

ITEM NO	DESCRIPTION
ITEM NO.	DESCRIPTION
1	CLEARING & GRUBBING A. CONTRACTOR TO CLEAR AND GRUB THE PROJECT SITE. THERE IS ROUGHLY 0.15 ACRES OF TREES TO BE CLEARED. SEE SHEET #5 FOR CLEARING DETAILS.
2	GRADING A. CONTRACTOR TO GRADE THE SITE AS DETAILED IN THE PLANS. THERE IS A TOTAL CUT/FILL OF ABOUT 700 CY. APPROXIMATELY 400 CY OF SPOIL MATERIAL WILL BE GENERATED AND SHALL BE DISPOSED OF OFF-SITE, CONTRACTOR SHALL BE RESPONSIBLE FOR FINDING SUITABLE SPOIL LOCATION FOR DISPOSAL. THE COST OF THIS TRANSPORT SHALL BE INCLUDED IN THIS BID ITEM.
3	SUBGRADE PREPARATION A. CONTRACTOR SHALL COMPACT THE SUBGRADE FOR THE PAVEMENT IN ACCORDANCE TO SUDAS. B. SUBGRADE PREPARATION SHALL EXTEND 1-FOOT BEYOND THE EDGE OF PAVEMENT ABOVE THE RAMP LOCATION.
4	GRANULAR SUBBASE A. CONTRACTOR TO INSTALL 6-INCH GRANULAR BASE FOR PAVEMENT AREAS. BASE IS TO EXTEND 1-FOOT BEYOND EDGE OF PAVEMENTS, CONTRACTOR TO COMPACT IN ACCORDANCE WITH SUDAS, SEE SHEETS #6 & 9 FOR DETAILS,
5	CLASS 'A' CRUSHED STONE A. CONTRACTOR SHALL PLACE AND COMPACT A 6-INCH DEPTH BASE BELOW THE BOAT RAMP PAVEMENT (60 LF) AS DETAILED ON SHEETS #8 & 9. STONE SHALL ALSO BE PLACED IN THE EXISTING CUL-DE-SAC AT A DEPTH OF BETWEEN 3 AND 6-INCHES. 2-INCHES OF STONE SHALL ALSO BE PLACED AS TOP DRESSING ON THE 3-INCH LIMESTONE BEING PLACED IN THE ENTRANCE ROAD 5 LOW POINT AREAS.
6	MACADAM STONE A. CONTRACTOR SHALL PLACE AND COMPACT A 6-INCH DEPTH MACADAM BASE BELOW THE CRUSHED STONE BASE FOR THE 40-FOOT PANEL LENGTH THAT WILL BE UNDERWATER AS DETAILED ON SHEETS #8 & 9.
7	3-INCH CLEAN LIMESTONE A. CONTRACTOR SHALL PLACE 3-INCH CLEAN LIMESTONE IN 5 LOW POINT AREAS OF ENTRANCE ROAD AT A DEPTH OF 4-INCHES.
8	CLASS 'E' RIPRAP A. CONTRACTOR SHALL PLACE CLASS 'E' RIPRAP IN AREAS OF FILL UNDER THE BOAT RAMP TO ACHIEVE THE PROPER SUBGRADE ELEVATIONS AND ALONG THE SIDES AND END OF THE RAMP AS DETAILED IN THE PLANS ON SHEETS #7-9. RIPRAP SHALL ALSO BE PLACED ALONG BANKS NORTH AND SOUTH OF RAMP FOR BANK PROTECTION.
9	BROOMED REINFORCED CANDE LAUNCH RAMP A. CONTRACTOR TO INSTALL 10'40' REINFORCED PCC (CLASS 'C') CANDE LAUNCH RAMP AS DETAILED IN THE PLANS ON SHEETS #8 & 9. RAMP SHALL HAVE A STRONG BROOM FINISH PERPENDICULAR TO RAMP FOR TRACTION.
10	6-INCH REINFORCED PCC PAVEMENT A. CONTRACTOR TO INSTALL 6-INCH REINFORCED CLASS 'C' PCC PAVEMENT AS DETAILED IN THE PLANS ON SHEETS #6, 8, AND 9.
11	8-INCH FILTER SOCK A. CONTRACTOR SHALL INSTALL 8-INCH FILTER SOCK AS DETAILED IN THE PLANS. ADDITIONAL FILTER SOCK MAY BE REQUIRED BY THE DNR INSPECTOR TO CONTROL EROSION.
12	SEEDING, FERTILIZING & MULCHING A. THE CONTRACTOR SHALL SEED, FERTILIZE & MULCH ALL DISTURBED AREAS. SEED WITH TYPE 2 SEED MIXTURE (PERMANENT COOL SEASON MIXTURE). SEEDING DATES: 3/1-5/31 AND 8/10-9/30.
13	MOBILIZATION A. COST OF MOBILIZATION.



IOWA DEPARTMENT O NATURAL RESOURCES

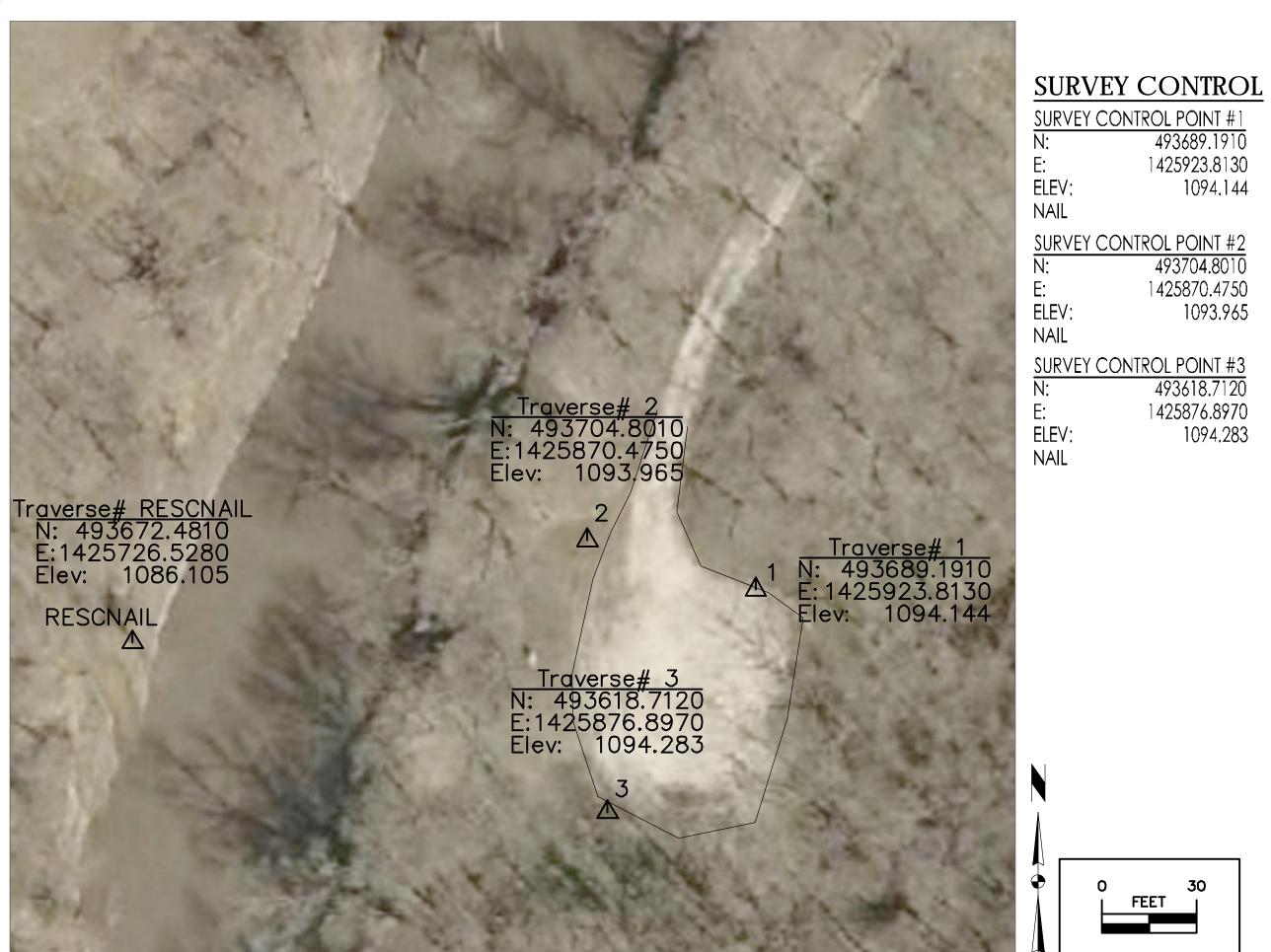


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GENERAL NOTES CANOE MIDDLE RIVER

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QUANTITIES DATE REVISION 18-04-01-01 05/02/2018





IOWA DEPARTMENT OF NATURAL RESOURCES

CINSTRUCTION PROJECT FOR:

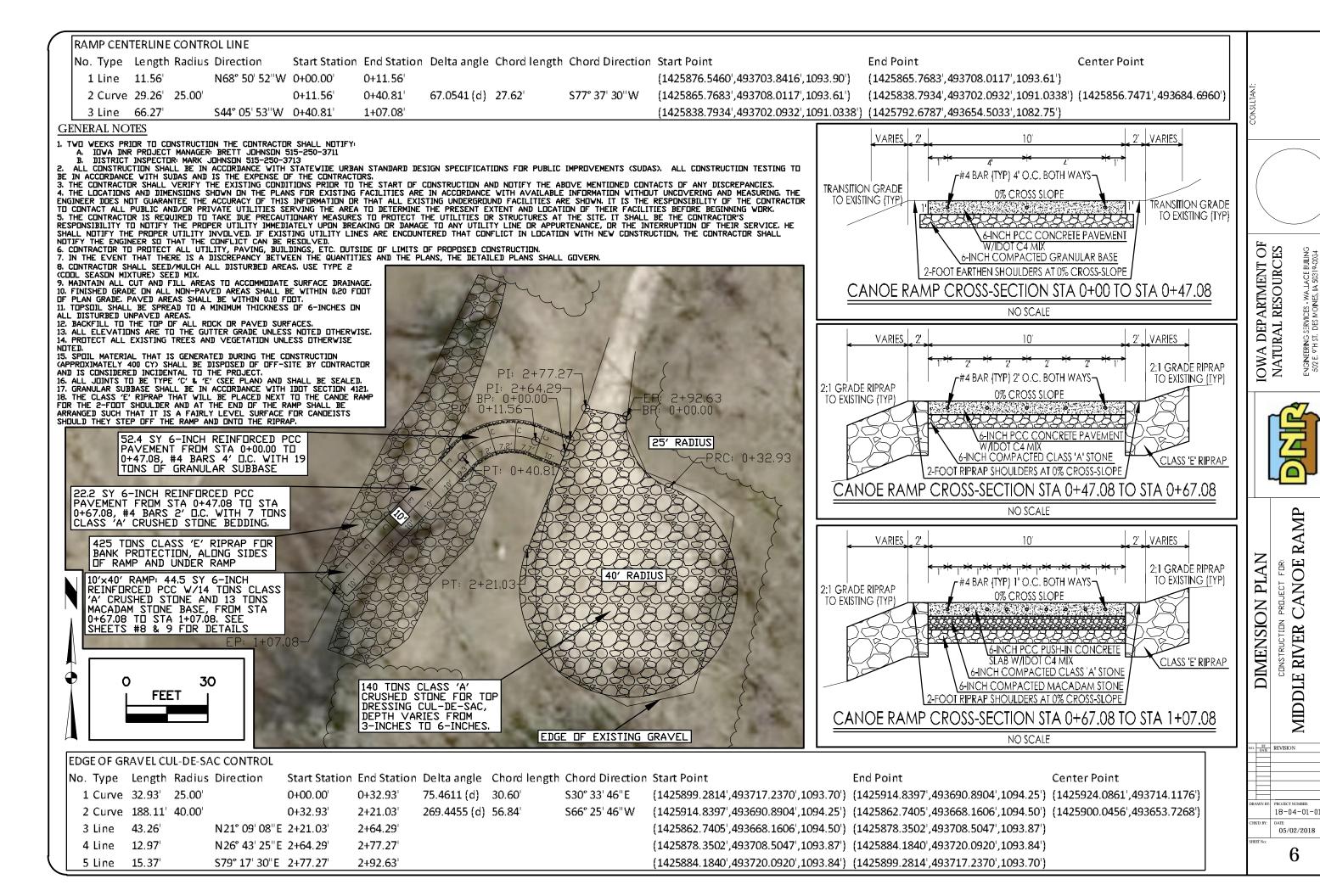
IDDLE RIVER CANOE RAMP

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O. BY DATE	REVISION
RAWN BY:	PROJECT NUMBER:
	18-04-01-01
CHK'D BY:	DATE:
	05/02/2018
HEET No:	

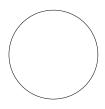




18-04-01-01 05/02/2018



RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR FACILITIES BEFORE



IOWA DEPARTMENT OF NATURAL RESOURCES

SERVICES - WALLACE B DES MOINES, IA 50319

ENGINEERING ST 502 E. 97H ST. 1



RAMP CANOE

PLAN

GRADING

MIDDLE RIVER

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NO.	BY DATE	REVISION
DRAWN BY:		PROJECT NUMBER:
		18-04-01-01
CHK'D BY:		DATE:
		05/02/2018
SHEET No:		

