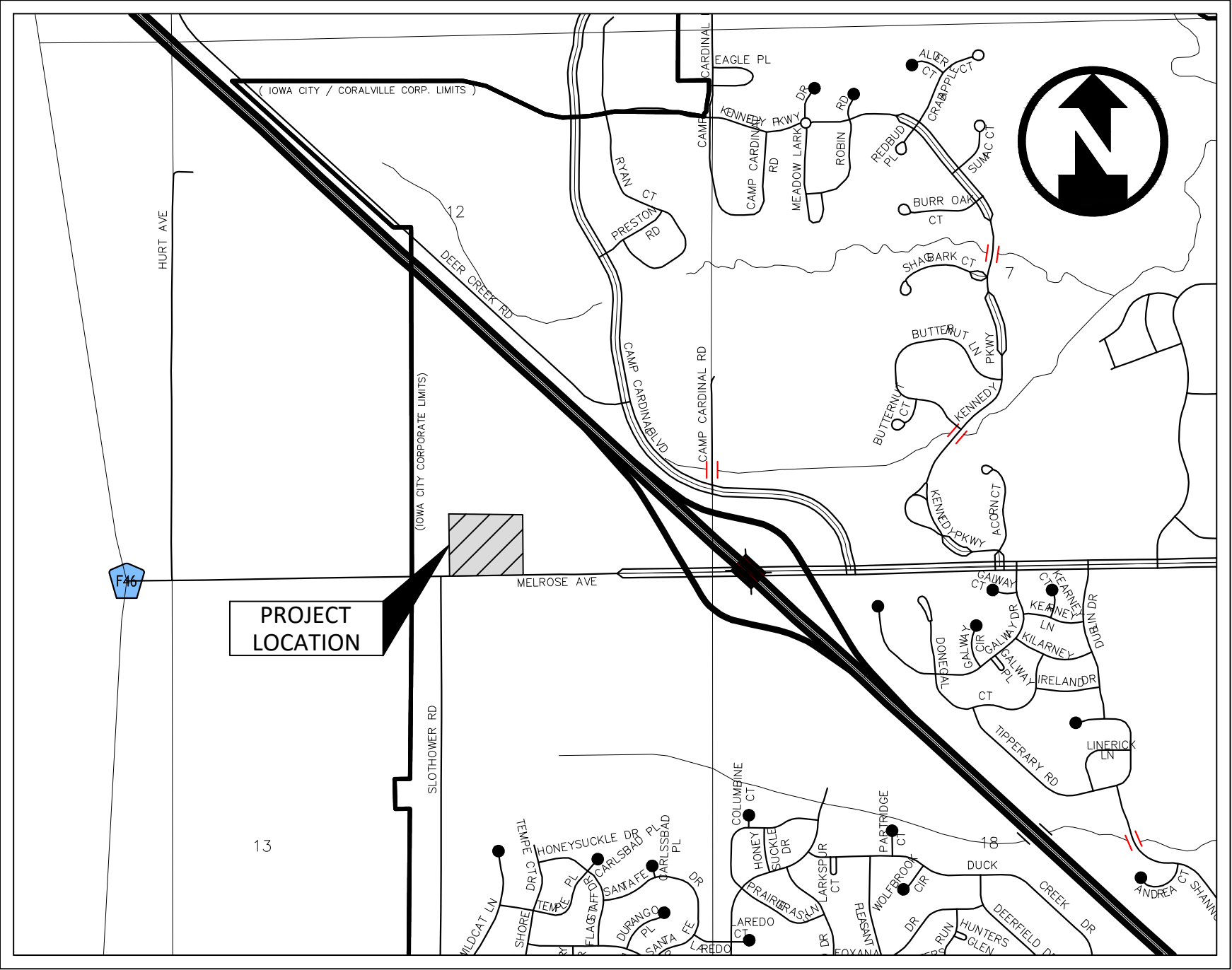


DRAWINGS FOR PROPOSED IMPROVEMENTS
JOHNSON COUNTY FUEL ISLANDS
4810 MELROSE AVENUE
IN THE CITY OF IOWA CITY, JOHNSON COUNTY, IOWA



CITY OF IOWA CITY, IOWA

NOTE:
THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH CITY OF IOWA CITY REQUIREMENTS AND THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST ADDITION, UNLESS NOTED OTHERWISE ON THE PLANS.

THE FOLLOWING DESIGN EXCEPTIONS ARE REQUIRED:

NONE

APPLICANT INFORMATION

OWNER:

JOHNSON COUNTY
913 S. DUBUQUE ST.
IOWA CITY, IA 52240
PHONE: 319-356-6000

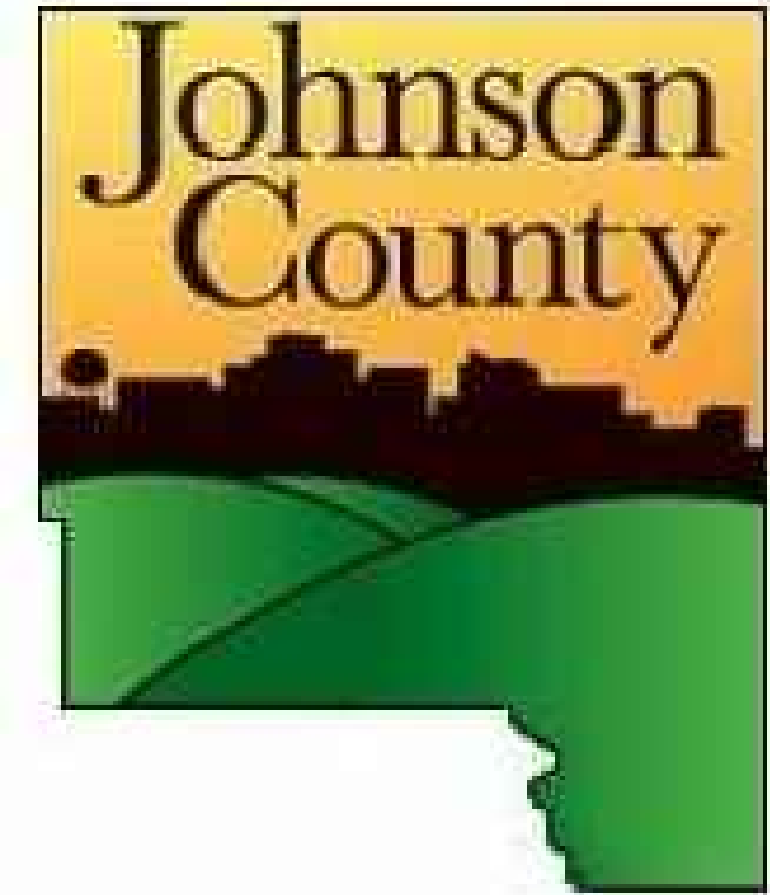
PROJECT INFORMATION

SCOPE OF WORK:
PROPOSED CONCRETE PAVEMENT AROUND
EXISTING FUEL ISLANDS.

CONTACT PERSON:

BRIAN BOELK
AXIOM CONSULTANTS, LLC
60 E COURT STREET, UNIT 3
IOWA CITY, IOWA 52240-3833
PHONE: 319-519-6220
BBOELK@AXIOM-CON.COM

SHEET INDEX		
C.00	COVER SHEET	
C.01	LEGEND AND GENERAL NOTES	
C.04	PAVEMENT PLAN	



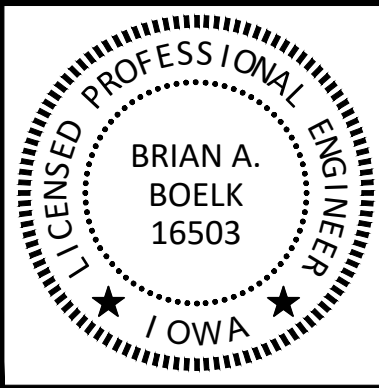
CITY APPROVAL

BY: RESERVED FOR APPROVAL

CITY'S ENGINEER'S
RECOMMENDATION

STAMP

BY: _____ DATE: _____



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.

BRIAN A. BOELK, P.E. _____ DATE
LICENSE NUMBER 16503.

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022.

PAGES OR SHEETS COVERED BY THIS SEAL: THIS PLAT



NOT FOR CONSTRUCTION

ENGINEER:  WWW.AXIOM-CON.COM (319) 519-6220			
DRAWING LOG			
REV	DESCRIPTION OF CHANGES	DATE	
PROJECT NAME: JC FUEL ISLAND PAVING		IOWA CITY, IOWA, 52240	
PROJECT NO.:		JOHNSON COUNTY	
SHEET NAME: COVER SHEET		DESIGN PROFESSIONAL: BOELK	
SHEET NUMBER:		22-0201	
		C.00	

GENERAL NOTES:

1.

THE APPROVING AUTHORITY FOR THIS PROJECT SHALL BE **JOHNSON COUNTY**.
2.

THE TERM "ENGINEER" REFERS TO **AXIOM CONSULTANTS, LLC**.
3.

THE TERM "CONTRACTOR" REFERS TO THE GENERAL CONTRACTOR AND ANY AND ALL SUB-CONTRACTORS WORKING ON THE PROJECT.
4.

CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) STANDARD SPECIFICATIONS, GENERAL SUPPLEMENTAL SPECIFICATIONS, AND SUPPLEMENTAL SPECIFICATIONS.
5.

ALL CIVIL SITE WORK TO FOLLOW THE GUIDANCE OF SUDAS UNLESS A MORE STRINGENT REQUIREMENT IS NOTED WITHIN THESE PROJECT SPECIFICATIONS. IN THE CASE OF CONFLICT, THE MORE STRICT REQUIREMENTS SHALL GOVERN AS DETERMINED BY THE ENGINEER OF RECORD.
6.

THE LOCATION OF UNDERGROUND UTILITIES INCLUDING MAINS, SERVICE LINES, STRUCTURES, AND OTHER APPURTENANCES ARE APPROXIMATE ONLY. LOCATIONS SHOWN WERE OBTAINED FROM PLANS OF RECORD AND/OR UTILITY LOCATES. THERE MAY BE ADDITIONAL UTILITIES THAT ARE NOT SHOWN ON THESE DRAWINGS.
7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING IOWA ONECALL (811 OR www.iowaonecall.com) PRIOR TO PERFORMING ANY WORK, INCLUDING PROVIDING SUFFICIENT LEAD TIME FOR LOCATES TO BE COMPLETED PRIOR TO PERFORMING WORK.
8.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL MUNICIPALITY (INCLUDING IOWA DOT AND COUNTY ROADS DEPARTMENT, IF APPLICABLE) AND/OR APPROPRIATE UTILITY COMPANIES OF THE ANTICIPATED WORK SCHEDULE. THE CONTRACTOR SHALL COORDINATE WORK SCHEDULES AS REQUIRED. A MINIMUM OF 48-HOURS NOTICE IS RECOMMENDED.
9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL, STATE, AND FEDERAL PERMITS UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO, DEMOLITION PERMITS AND WORK IN THE RIGHT-OF-WAY PERMITS. THE CONTRACTOR SHALL MAKE ALLOWANCES IN THE SCHEDULE FOR THE TIME REQUIRED TO OBTAIN PERMITS AND ANY ASSOCIATED NOTICE PERIODS.
10.

THE CONTRACTOR SHALL LIMIT ALL WORK, STAGING, AND MATERIALS STORAGE TO THE PROJECT AREA AS IDENTIFIED WITHIN THE CONTRACT DOCUMENTS.
11.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING PROPERTY MONUMENTS (PINS) WITHIN AND ADJACENT TO THE PROJECT AREA. THE ENGINEER SHALL BE MADE AWARE OF ANY PROPERTY MONUMENTS THAT AREA AT RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESETTING PROPERTY MONUMENTS REMOVED ARE DESTROYED BY CONSTRUCTION ACTIVITY, INCLUDING THE COST OF PREPARING AND RECORDING ANY NECESSARY PLATS. ALL PROPERTY MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA.

SITE GRADING NOTES:

1.

THE APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING GRADING OPERATIONS.
2.

THE CONTRACTOR SHALL COMPLY WITH SUDAS SECTION 2010 FOR GRADING AND EARTHWORK OPERATIONS.
3.

GENERAL COMPACTION REQUIREMENTS ARE INDICATED BELOW AND RELATIVE COMPACTION IS BASED UPON THE MATERIALS STANDARD PROCTOR DRY DENSITY (ASTM D698). THE CONTRACTOR SHALL PROVIDE MATERIAL SAMPLES TO THE TESTING AGENCY AS REQUIRED TO ESTABLISH THE MATERIAL PROPERTIES.

LOCATION OF FILL MATERIALS	RELATIVE COMPACTION	MOISTURE VARIANCE FROM OPTIMUM
LESS THAN 12" BELOW FLOOR SLABS AND FOUNDATIONS *	98%	-3% to +3% SANDS -1% to +3% CLAYEY SOILS
MORE THAN 12" BELOW FLOOR SLABS AND FOUNDATIONS *	95%	-3% to +3% SANDS -1% to +3% CLAYEY SOILS
BELOW EXTERIOR PAVEMENTS	95%	-3% to +3% SANDS -1% to +3% CLAYEY SOILS
BELOW LANDSCAPED SURFACES * MEASURED FROM TOP OF SUBGRADE	90%	-5% to + 5% ALL SOILS

SITE PREPARATION NOTES:

1.

DEMOLITION / REMOVAL LIMIT LINE IS THE EXISTING PROPERTY LINE UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT PROPERTY DURING DEMOLITION / REMOVAL OPERATIONS.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER SANITATION FACILITIES ON SITE AND MAINTAINING SAID FACILITIES FOR THE DURATION OF THE PROJECT.
3.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT TREES AND OTHER DESIRABLE VEGETATION FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITY. PROTECTION INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION FENCING AROUND THE DRIP LINE OF TREES AND PROHIBITING VEHICLE TRAFFIC AND MATERIAL STORAGE WITHIN THE DRIP LINE.
4.

REMOVAL AND DISPOSAL OF EXISTING TREES AND OTHER VEGETATION WITHIN THE CONSTRUCTION LIMITS SHALL BE INCIDENTAL TO THE GRADING PORTION OF THE PROJECT UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. STUMPS AREA TO BE GROUND TO AT LEAST TWO-FEET BELOW FINISHED GRADE OR OTHERWISE REMOVED. TRUNKS, BRANCHES, AND OTHER WOODY VEGETATION SHALL BE CHIPPED OR SHREDDED AND USED FOR EROSION AND SEDIMENT CONTROL MATERIALS UNLESS NOTED OTHERWISE. NO BURNING SHALL BE ALLOWED.
5.

FULL DEPTH SAW CUTS SHALL BE UTILIZED WHERE ADJACENT PAVEMENT WILL REMAIN TO PREVENT DAMAGE TO THE PAVEMENTS THAT WILL REMAIN.
6.

WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALK IS DAMAGED BY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL REMOVE AND REPLACE THE ENTIRE AFFECTED SECTION AT NO ADDITIONAL COST.
7.

PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT (A MINIMUM OF TWO FEET BEYOND EXCAVATION AND TRENCH LIMITS) TO PREVENT UNDERMINING.
8.

UNLESS NOTED OTHERWISE, ANY EXISTING STRUCTURES SHOWN ON THE PLANS FOR REMOVAL SHALL BE REMOVED IN THEIR ENTIRETY. THIS INCLUDES, BUT IS NOT LIMITED TO, FOUNDATIONS AND FOOTINGS, FLOORS, WALLS, UTILITY SERVICE LINES, SIDEWALKS, DRIVEWAYS, CURBS, AND OTHER ASSOCIATED PAVEMENT.
9.

CONCRETE, BUILDING MATERIALS, AND OTHER WASTE MUST BE DISPOSED OF OFFSITE, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SORTING AND WASTE STORAGE AREAS ON SITE FOR WASTE MATERIALS PRIOR TO HAUL OFF. DISPOSAL SITES MUST BE APPROVED BY THE ENGINEER. OFF-SITE DISPOSAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
10.

CONTRACTOR SHALL REPLACE PANELS/CURB AND GUTTER, AND SIDEWALK AT CONSTRUCTION ENTRANCES WHEN THE ENTRANCE IS REMOVED.
11.

CONTRACTOR TO DESIGNATE A LOCATION ON SITE FOR PARKING, EQUIPMENT, AND MATERIAL STORAGE.

EROSION AND SEDIMENT CONTROL NOTES:

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMP) IN ACCORDANCE WITH THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2.

THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT THE BEST MANAGEMENT PRACTICES A MINIMUM OF ONCE PER WEEK. INSPECTIONS, AND ANY REQUIRED CORRECTIVE ACTION, SHALL BE DOCUMENTED.
3.

SEDIMENT BARRIERS SUCH AS SILT FENCE AND SEDIMENT SOCKS SHALL BE CLEANED WHEN THE DEPTH OF ACCUMULATED SEDIMENT DEPTH MEETS OR EXCEEDS FIFTY PERCENT OF THE HEIGHT OF THE BARRIER.
4.

TEMPORARY SEED OR OTHER APPROPRIATE MEASURE SHALL BE APPLIED TO DISTURBED AREAS THAT REMAIN INACTIVE FOR MORE THAN FOURTEEN DAYS.
5.

THE GENERAL SEQUENCE OF EROSION AND SEDIMENT CONTROL EVENTS IS:

A.

INSTALL PERIMETER MEASURES AND INLET PROTECTION DEVICES

B.

CONSTRUCT CONSTRUCTION ENTRANCE / TRACKING PAD

C.

STRIP AND STOCKPILE TOPSOIL

D.

PERFORM SITE GRADING OPERATIONS

E.

STABILIZE PAVED AREAS WITH GRANULAR SUBBASE

F.

STABILIZE AREAS OUTSIDE OF PAVEMENT AT EARLIEST OPPORTUNITY. IF WORK WILL CONTINUE IN AN AREA AT A LATER DATE, PROVIDE TEMPORARY STABILIZATION IN THE FORM OF TEMPORARY SEEDING OR OTHER SURFACE TREATMENT.

G.

REMOVE ALL TEMPORARY MEASURES UPON FINAL STABILIZATION.
6.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL BMPs. THE COST SHALL BE INCIDENTAL TO INSTALLING AND MAINTAINING THE BMPs.

PAVEMENT NOTES

1.

ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
2.

SUBGRADE PREPARATION REQUIREMENTS

A.

SHAPE AND CONSOLIDATE SUBGRADE IN PREPARATION FOR THE PLACEMENT OF PAVEMENT. PROVIDE UNIFORM COMPOSITION OF AT LEAST 12" BELOW TOP OF SUBGRADE UNDER NEW PAVING OR SUBBASE, PLUS 2' ON EACH SIDE.

B.

SUBGRADE CONSTRUCTION TO OCCUR AS FOLLOWS TO CHECK FOR DENSITY:

1b.

IF SUBGRADE IS NATIVE, IT SHALL BE SCARIFIED TO 6" DEPTH AND COMPACTED TO 98% STD PRIOR TO PLACEMENT OF SUBBASE.

2b.

IF SUBGRADE IS FILL MATERIAL, FILL MATERIAL SHALL BE PLACED IN LIFTS OF 95% STD (98% STD FOR TOP LIFT) PRIOR TO PLACEMENT OF SUBBASE.

C.

AFTER COMPACTION REQUIREMENTS ARE MET, SUBGRADE SHALL BE SUBJECTED TO A PROOFROLL PER SUDAS 2010 - 3.06 TO CHECK FOR STABILITY. REMOVE AND REPLACE UNSUITABLE AREAS WITH SUITABLE COMPACTED MATERIAL.

D.

AFTER DENSITY AND STABILITY ARE APPROVED, PLACE SUBBASE AND COMPACT TO 98% STD PROCTOR. BACKSCATTER TEST TYPE MAY BE REQUIRED.

3.

GRANULAR SUBBASE FOR PAVEMENTS SHALL BE GRADATION NO. 14 (MODIFIED SUBBASE) PER IOWA DOT STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4123.

4.

MATERIALS AND CONSTRUCTION FOR PORTLAND CEMENT CONCRETE (PCC) PAVEMENTS SHALL MEET THE REQUIREMENTS OF SUDAS 7010.

5.

MINIMUM 28-DAY COMPRESSIVE STRENGTH FOR CONCRETE USED FOR PAVEMENTS SHALL BE 4000 PSI. CONCRETE SHALL BE C-3 OR C-4 WITH TYPE 1 CEMENT. AIR CONTENT SHALL BE 5.5%-8.5% FOR NON-SLIP FORM AND 6%-10% FOR SLIP-FORM PAVING. AIR ENTRAINMENT ADMIXUTRES AND WATER REDUCING ADMIXTURES SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4103.

6.

JOINT SEALER SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4136 FOR HOT POURED JOINT SEALER.

7.

CURING COMPOUND (WHITE, DARK OR CLEAR) SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR SECTION 4105.

8.

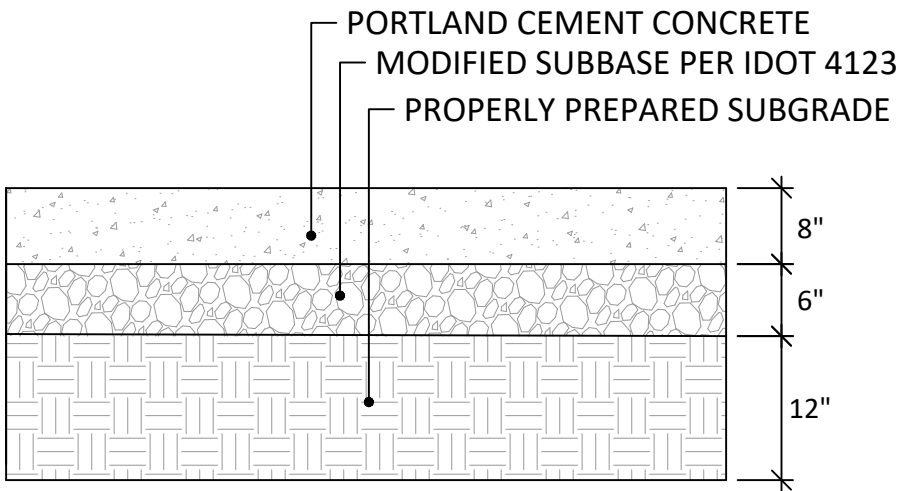
PAVEMENT TIE BARS AND DOWEL BARS SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4151. EPOXY COATING, WHEN SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4151.03B.

9.

ONE INCH PREFORMED FOAM EXPANSION JOINT MATERIAL SONOFLEX "F" BY SONOBORN OR APPROVED EQUAL SHALL BE PLACED BETWEEN NEW PAVEMENT CONSTRUCTION AND THE FACES OF BUILDINGS, STOOPS, EXISTING SLABS, AND OTHER FIXTURES, UNLESS NOTED ON THE DRAWINGS. JOINTS AT THESE LOCATIONS SHALL BE SEALED WITH A SELF-LEVELING POLYURETHANE SUCH AS SONOLASTIC SL-1 OR APPROVED EQUAL.
- | LEGEND: | | |
|-------------------------|---|---|
| UTILITIES | EXISTING | PROPOSED |
| COMMUNICATIONS | — (CO) — | — CO — |
| OVERHEAD LINE | — (OH) — | — OH — |
| ELECTRIC | — (E) — | — E — |
| FIBER OPTIC | — (FO) — | — FO — |
| GAS | — (G) — | — G — |
| SANITARY SEWER | — (S) — | — SS — |
| STORM | — (ST) — | — ST — |
| SUBDRAIN | — (SD) — | — SD — |
| WATER: DOMESTIC | — (W) — | — W — |
| COMM. HANDHOLE |  |  |
| COMM. PEDESTAL |  |  |
| GUY WIRE ANCHOR |  |  |
| UTILITY POLE |  |  |
| UTILITY POLE WITH LIGHT |  |  |
| LIGHT POLE |  |  |
| ELECTRIC TRANSFORMER |  |  |
| FIBER OPTIC HANDHOLE |  |  |
| GAS VALVE |  |  |
| SANITARY MANHOLE |  |  |
| SANITARY CLEANOUT |  |  |
| STORM MANHOLE |  |  |
| STORM INTAKE |  |  |
| HYDRANT |  |  |
| WATER VALVE |  |  |
| CURB STOP |  |  |
| WELL |  |  |
| SITE | EXISTING | PROPOSED |
| CONTOUR - INDEX | — 100 — | — 100 — |
| CONTOUR - INTERMEDIATE | — 101 — | — 100 — |
| FENCE: BARB WIRE | — X — X — X — | — X — X — X — |
| FENCE: CHAIN LINK | — O — O — O — | — O — O — O — |
| FENCE: CONSTRUCTION | — + — + — + — | — + — + — + — |
| FENCE: VINYL | — / — / — / — | — / — / — / — |
| FENCE: WIRE | — / — / — / — | — / — / — / — |
| FENCE: WOOD | — O — O — O — | — O — O — O — |
| STREAM CENTERLINE | — - - - - | — - - - - |
| SIGN | — 6 — | — 6 — |
- NOT FOR CONSTRUCTION
- Nov 10, 2022 - 3:05pm S:\PROJECTS\2022\220201 - Johnson Co Specs Fueling Island\05 Design\Civil-Survey\Sheets\220201 - Cover Sheet.dwg



- NOTES:
1. GRADING BASED ON LIDAR INFORMATION, NO FIELD SURVEY COMPLETED.



STANDARD DUTY PAVEMENT SECTION
NOT TO SCALE

1

NOT FOR CONSTRUCTION

PROJECT NAME: JC FUEL ISLAND PAVING		DRAWING LOG		ENGINEER:  WWW.AXIOM-CON.COM (319) 519-6220	
CLIENT NAME: IOWA CITY, IOWA, 52240		DESCRIPTION OF CHANGES		DATE	
SHEET NO.: 22-0201		REV		REV	
DESIGN PROFESSIONAL: BOELK		DESCRIPTION OF CHANGES		DATE	
SHEET NUMBER: C.04		REV		REV	