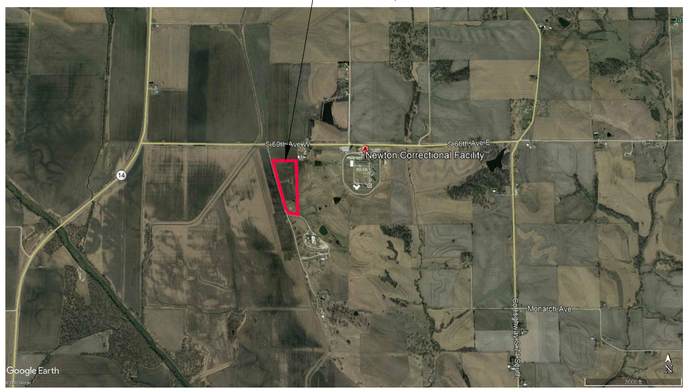
Farnsworth GROUP

100% BID DOCUMENTS
07/02/2026

Newton Correctional Facility
Iowa Prison Industries Phase II
Perimeter Fence

Newton, Iowa

LOCATION MAP



ARCHITECT

FARNSWORTH GROUP, INC.
14225 UNIVERSITY AVENUE, SUIT 110
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P: 515-225-3469

CONSULTANTS

BISHOP ENGINEERING - CIVIL
3501 104TH STREET
DES MOINES, IOWA 50322
P: 515-276-0467

TWIN RIVERS ENGINEERING - ELECTRICAL
1000 ILLINOIS STREET
DES MOINES, IOWA 50314
P: 515-288-3679

PROFESSIONAL REGISTRATIONS

LICENSED PROFESSIONAL ARCHITECT — ROBERT C. RIDGWAY — #07570 — IOWA

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: _____
NAME: ROBERT C. RIDGWAY
DATE: _____
LICENSE RENEWAL DATE: _____
PAGES OR DIVISIONS COVERED: _____

LICENSED PROFESSIONAL ENGINEER — DAVID B. BENTZ — #17143 — 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: _____
NAME: DAVID B. BENTZ, P.E.
DATE: _____
LICENSE RENEWAL DATE: _____
PAGES OR DIVISIONS COVERED: _____

LICENSED PROFESSIONAL ENGINEER — CRAIG M. PHILLIPS — P14060 — 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: _____
NAME: CRAIG M. PHILLIPS, P.E.
DATE: _____
LICENSE RENEWAL DATE: _____
PAGES OR DIVISIONS COVERED: _____

INDEX OF DRAWINGS

OWNER-PROVIDED INFORMATION

IPI HOMES FOR IOWA PROJECT HOUSE INFORMATION:

1. 24' W x 50'L (28'W w/EAVES)
2. EACH COMPLETED HOUSE WEIGHS APPROXIMATELY 53,000 POUNDS.
   - APPROXIMATE WEIGHT OF HOUSE AND TRANSPORT TRAILER IS 90,000 POUNDS.
3. PROJECT HOUSE BUILD HEIGHT IS 14'-9" TO PEAK OF ROOF
   - PROJECT HOUSE SUPPORTS PILLARSD ADD 30" TO 36" TO OVERALL HEIGHT DURING BUILD.
   - PROJECT HOUSE WHEN LOADED ON 15" HIGH TRAILER EQUALS 16'-7" OVERALL HEIGHT.

DAS RFB923904-02
DAS PROJECT NO.: 9239.04
PROJECT NO.: 02401959.001

DATE: 07/02/2026

NEWTON CORRECTIONAL FACILITY IOWA PRISON INDUSTRIES
PHASE II SALLYPORT & PARKING LOT DESIGN

SHEET INDEX:

VICINITY MAP
SCALE: 1" = 400'

PROPERTY DESCRIPTION:
THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 79 NORTH, RANGE 19 WEST OF THE 5TH P.M., JASPER COUNTY, IOWA EXCEPT STREET AND EXCEPT APPROXIMATELY 1.0 ACRES IN THE NORTHEAST CORNER DEEDED TO THE CENTRAL IOWA WATER ASSOCIATION IN PATENT RECORDED AS INSTRUMENT # 04-01346.

ADDRESS:
803 S 60TH AVE W
NEWTON, IA 50208

OWNER/PREPARED FOR:
STATE OF IOWA
1007 EAST GRAND AVE
DES MOINES, IA 50319

ZONING:
CLASS: A (AGRICULTURAL)
PER JASPER COUNTY ASSESSOR PAGE

BENCHMARK:
POINT: #9000, MAG NAIL
NORTHING = 594215.79
EASTING = 1758735.35
ELEVATION = 776.85
DESCRIPTION: LOCATED ON THE SE CORNER OF THE INTERSECTION BETWEEN SW 60TH AVE AND THE PUBLIC ACCESS ROAD ON WHICH THE PROPERTY LIES

POINT: #9001, MAG NAIL
NORTHING = 592565.48
EASTING = 1759082.31
ELEVATION = 779.68
DESCRIPTION: LOCATED ON THE EAST SIDE OF THE PUBLIC ACCESS ROAD TOWARDS THE SOUTHERN END OF THE PROPERTY

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SUDAS STANDARD SPECIFICATIONS AND ANY AND ALL STATE FIRE MARSHAL SUPPLEMENTAL SPECIFICATIONS. THE STATE FIRE MARSHALL & CORRECTIONS FACILITY MUST BE NOTIFIED BY ALL CONTRACTORS 72 HOURS PRIOR TO COMMENCING WORK.
2. IN EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES. ANY DAMAGE TO SAID UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT O.S.H.A. CODES AND STANDARDS. NOTHING INDICATED ON THESE PLANS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE APPROPRIATE SAFETY REGULATIONS.
5. ALL NECESSARY CONSTRUCTION SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES REQUIRED DURING CONSTRUCTION WILL BE FURNISHED BY THE CONTRACTOR. SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES MUST BE IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
6. BISHOP ENGINEERING SHALL NOT BE LIABLE FOR ANY INJURIES THAT HAPPEN ON SITE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO TRENCH COLLAPSES FROM VARYING SOIL CONDITIONS OR INJURIES CAUSED BY UNDERGROUND UTILITIES INCLUDING UTILITIES THAT ARE NOT SHOWN ON PLAN.
7. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN PROVIDING FOR STORM WATER FLOW DURING CONSTRUCTION. DO NOT RESTRICT FLOWS IN EXISTING DRAINAGE CHANNELS, STORM SEWER, OR FACILITIES.
8. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SCHEDULE FOR PERFORMANCE OF WORK ITEMS. THIS SCHEDULE SHALL BE PROVIDED BY THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. NO WORK SHALL BEGIN UNTIL A SCHEDULE HAS BEEN SUBMITTED AND ACCEPTED. THE CONTRACTOR SHALL THEN PERFORM WORK TO CONFORM TO THE ACCEPTED SCHEDULE.
9. LABORATORY TESTS SHALL BE PERFORMED BY THE OWNER UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE SAMPLES OF MATERIAL REQUIRED FOR LABORATORY TESTS AND TESTING IN ACCORDANCE WITH THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
10. SOIL IMPORT OR EXPORT ON THIS PROJECT SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.
11. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES NOT SHOWN AS REMOVALS ON THE PLANS.
12. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL WORK WITH OWNER OR OWNERS REPRESENTATIVE ON ALL REQUIRED STORM WATER DISCHARGE PERMITS FROM THE IOWA DEPARTMENT OF NATURAL RESOURCES.
13. GRADING AND EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE APPROVED GRADING PLAN, SWPPP, NPDES DOCUMENTS, AND IOWA DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS.
14. THE CONTRACTOR SHALL PICK UP ANY DEBRIS SPILLED ONTO THE ADJACENT RIGHT OF WAY OR ABUTTING PROPERTIES AS THE RESULT OF CONSTRUCTION, AT THE END OF EACH WORK DAY.
15. THE CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REMOVAL OF ALL MUD THAT HAS BEEN TRACKED OR WASHED UNTO ADJACENT PROPERTY OR RIGHT OF WAY UNTIL SUCH TIME THAT PERMANENT VEGETATION HAS BEEN ESTABLISHED.
16. DISPOSE OF ALL EXCESS MATERIALS AND TRASH IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIALS NOT DESIRABLE FOR INCORPORATION INTO THE PROJECT.

PAVING NOTES:

1. THE PAVING/ GRADING CONTRACTOR SHALL BACKFILL THE PAVING SLAB AND FINE GRADE THE RIGHT OF WAY AS SOON AFTER THE PAVING AS POSSIBLE. ALL AREAS SHALL BE SEEDED IN ACCORDANCE WITH CITY OF NEWTON STANDARD SPECIFICATIONS AND THE CURRENT VERSION OF SUDAS.
2. SUBGRADE PREPARATION AND PAVEMENTS WILL BE CONSTRUCTED FOLLOWING RECOMMENDATIONS IN THE SOILS REPORT. APPROVED SOILS ENGINEER MUST SIGN OFF ON SUBASE PRIOR TO ANY PAVEMENT BEING PLACED.
3. SEE DETAILS FOR ALL PAVEMENT THICKNESS.
4. ALL PEDESTRIAN WALKWAYS THAT UNLOAD INTO A VEHICLES TRAVELED PATH MUST HAVE A.D.A. DETECTABLE WARNING PLANEL(S) AS PER A.D.A. REGULATIONS. PANEL TYPE & COLOR SHALL BE PER CITY STANDARD.
5. ALL WALKS, PARKING LOTS, HANDICAP PARKING, RAMPS, ETC. SHALL COMPLY WITH ALL A.D.A. AND CITY CODES. HANDICAP PARKING SIGNAGE IS REQUIRED FOR ALL HANDICAP STALLS AND SHALL BE CONSIDERED INCIDENTAL. IN EVENT OF A DISCREPANCY BETWEEN THE PLANS AND THE A.D.A./CITY CODES THE A.D.A/CITY CODES SHALL GOVERN. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING A.D.A. CODES ARE MET.

UTILITY NOTES:

1. QUANTITY CALLOUTS ON PIPE LENGTHS ARE APPROXIMATE AND SHOULD BE USED FOR REFERENCE ONLY.
2. THE CONTRACTOR SHALL PROVIDE AS-BUILTS OF ALL UTILITIES, INCLUDING DEPTH AND LOCATION OF ALL SERVICES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ALL COSTS ASSOCIATED WITH AS-BUILT TOPO OF DETENTION POND & DETENTION POND STORM SEWER. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING BISHOP ENGINEERING (AT 515-276-0467) TO PERFORM SAID AS-BUILT SURVEY. IF DETENTION PONDS HAVE BEEN GRADED INCORRECTLY, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT AS-BUILT TOPO SURVEYS UNTIL ISSUES HAVE BEEN RECTIFIED.
4. THE CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF ANY AND ALL EXISTING AND PROPOSED UTILITIES TO PROPOSED GRADES. EXISTING UTILITIES SHALL BE RAISED OR LOWERED IN ACCORDANCE WITH THE UTILITY OWNER REQUIREMENTS. ANY NECESSARY ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
5. ACTIVE EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE REPAIRED, REROUTED, OR CONNECTED TO PUBLIC OR PRIVATE STORM SEWER TO REMAIN IN SERVICE.
6. ALL PROPOSED RCP STORM SEWER PIPE JOINTS SHALL BE FABRIC WRAPPED AND THE LAST 3 PIPE SECTIONS ON THE APRON SHALL BE TIED WITH RF-14 TYPE II CONNECTORS. ALL APRONS SHALL HAVE A STANDARD FOOTING AND TRASH GUARD.
7. ALL RIP RAP CALLED OUT ON PLANS SHALL BE UNDERLAIN WITH ENGINEERING FABRIC.
8. SANITARY SEWER SERVICE CONNECTIONS SHALL BE PLACED AT A SLOPE OF NO LESS THAN 2%. SERVICES SHALL MAINTAIN 18" OF VERTICAL SEPARATION FROM THE WATERMAIN WITH 18" OF COMPACTED LOW PERMEABILITY SOIL BETWEEN THE UTILITIES WITHIN 10' OF THE CROSSING.
9. MANDREL AND PRESSURE TESTS SHALL BE REQUIRED FOR ALL PROPOSED SANITARY LINES. TELEVISING OF THE SANITARY SEWER SYSTEM SHALL BE COMPLETED PRIOR TO PAVING UNLESS OTHERWISE APPROVED BY JURISDICTION.

UTILITY CONFLICT NOTES:

1. UTILITY CONFLICTS MAY EXIST ACROSS THE SITE WITH NEW UTILITIES, GRADING, PAVING ETC. MOST UTILITY CONFLICTS HAVE BEEN CALLED OUT FOR CONTRACTOR CONVENIENCE.
2. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONFLICTS THAT ARE EITHER CALLED OUT ON THE PLANS OR THAT CAN BE SEEN ON THE PLANS BETWEEN AN EXISTING UTILITY AND PROPOSED CONSTRUCTION

WETLAND NOTES:

1. BISHOP ENGINEERING DOES NOT PERFORM WETLAND STUDIES OR WETLAND MITIGATION. IT IS THE OWNER'S RESPONSIBILITY TO DETERMINE IF ANY WETLANDS ARE LOCATED ON THE PROJECT SITE AND PERFORM ANY NECESSARY MITIGATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

SURVEY NOTES:

1. SURVEY WORK WAS COMPLETED BY BISHOP ENGINEERING ON 05-18-26. SEE SITE SURVEY PROVIDED AS PART OF THIS SET OF PLANS FOR EXISTING SITE CONDITIONS AND BOUNDARY INFORMATION.

GEOTECHNICAL REPORT:

1. REFERENCE ALLENDER BUTZKE ENGINEERS INC. SOILS REPORT (PROJECT NO. 251210) FOR ADDITIONAL SOILS INFORMATION INCLUDING BUT NOT LIMITED TO SUBGRADE INFORMATION, FOOTING DESIGN, AND ANY POSSIBLE OVER EXCAVATION DUE TO POOR SOILS. PAVEMENT SECTIONS ON THE PLANS GOVERN OVER PAVEMENT THICKNESS IN THE SOILS REPORT.
2. THE RECOMMENDED DESIGN AND SPECIFICATIONS HAVE BEEN APPROVED BY THE OWNER.
3. ANY RECOMMENDATIONS MADE BY THE OWNER'S SELECTED GEOTECHNICAL FIRM SHALL GOVERN.

SPECIFICATIONS NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEWTON CORRECTIONAL FACILITY PROJECT SPECIFICATIONS, STATE FIRE MARSHAL SPECIFICATIONS AND SUDAS SPECIFICATIONS.
2. FOR ANY DISCREPANCIES BETWEEN THE NEWTON CORRECTIONAL FACILITY PROJECT SPECIFICATIONS AND STATE FIRE MARSHAL REQUIREMENTS AND SPECIFICATIONS, PLUMBING CODE, AND URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENT (SUDAS 2020), STATE FIRE MARSHAL STANDARD SPECIFICATIONS SHALL GOVERN.
3. FOR ALL SPECIFICATION DISCREPANCIES, PROJECT ENGINEER SHALL BE CONTACTED PRIOR TO PROCEEDING WITH CONSTRUCTION. IF ENGINEER IS NOT CONTACTED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PROBLEMS THAT RESULT FROM SAID DISCREPANCIES.
4. FOR ALL SPECIFICATION DISCREPANCIES, CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM NEWTON CORRECTIONS FACILITY FOR ANY CHANGES TO PROPOSED SITE INFRASTRUCTURE OR GRADES PRIOR TO PROCEEDING WITH ANY CHANGES.

SECURITY NOTES:

1. CONTRACTOR RESPONSIBLE FOR SECURITY OF THE SITE.
2. TEMPORARY FENCES OR ANY OTHER SECURITY MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. NO SECURITY MEASURES WILL BE ELIGIBLE FOR A CHANGE ORDER AND MUST BE INCLUDED IN THE BASE BID.

STAKING NOTES:

1. CONTRACTOR IS REQUIRED TO HAVE ALL STAKING DONE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR AND IN COORDINATION WITH THE PROJECT ENGINEER.
2. CONTRACTOR IS REQUIRED TO HAVE ALL STAKING DONE DIRECTLY UNDER THE CONTRACTOR BY A SINGLE COMPANY.
3. STAKING DOES NOT RELIEVE CONTRACTOR OF ULTIMATE RESPONSIBILITY TO CONSTRUCT THE PROJECT PER PLAN.

EARTHWORK BALANCE NOTES:

1. SOIL IMPORT OR EXPORT ON THIS PROJECT SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY. CONTRACTOR RESPONSIBLE FOR MAKING THE SITE EARTHWORK BALANCE.
2. THIS INCLUDES BUT IS NOT LIMITED TO TOPSOIL, POOR SOILS AND STRUCTURAL FILL NECESSARY TO MEET PROJECT PLANS AND SPECIFICATIONS.

SPECIAL NOTES:

ALL INFORMATION PROVIDED IN THESE DOCUMENTS CONCERNING ANY WORK DIRECTLY ASSOCIATED WITH THE COMPLETE INSTALLATION OF THE CHAIN LINK SECURITY FENCE AND SALLY PORT IS FOR INFORMATION ONLY AND IS NOT INCLUDED IN THIS CONTRACT.

ABBREVIATIONS:

AC	ACRES
ASPH	ASPHALT
BK	BOOK
CONC	CONCRETE
D	DEEDED DISTANCE
EX	EXISTING
ENCL	ENCLOSURE
FF	FINISHED FLOOR
FL	FLOW LINE
FRAC	FRACTIONAL
M	MEASURED DISTANCE
MH	MANHOLE
OPC	ORANGE PLASTIC CAP
P	PLATTED DISTANCE
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
PRA	PREVIOUSLY RECORDED AS
PUE	PUBLIC UTILITY EASEMENT
ROW	RIGHT OF WAY
RPC	RED PLASTIC CAP
SF	SQUARE FEET
SAN	SANITARY
TYP	TYPICAL
YPC	YELLOW PLASTIC CAP
N	NORTH
S	SOUTH
E	EAST
W	WEST

LEGEND:

SAN	SANITARY SEWER
ST	STORM SEWER
W	WATER LINE
G	GAS LINE
U/E	UNDERGROUND ELECTRIC
O/E	OVERHEAD ELECTRIC
TELE	TELEPHONE LINE
F/O	FIBER OPTIC
CATV	CABLE TV
	STORM MANHOLE
	CURB INTAKE
	SURFACE INTAKE
	FLARED END SECTION
S	SANITARY MANHOLE
	CLEANOUT
	FIRE HYDRANT
	SPRINKLER
	IRRIGATION CONTROL VALVE
W	WATER MANHOLE
W	WELL
	WATER VALVE
	WATER SHUT OFF
	YARD HYDRANT
E	ELECTRIC MANHOLE
	ELECTRIC METER
E	ELECTRIC RISER
ELEC	ELECTRIC VAULT
	POWER POLE
	TRANSFORMER POLE
	LIGHT POLE
EJ	ELECTRIC JUNCTION BOX
EP	ELECTRIC PANEL
	TRANSFORMER
	GROUND LIGHT
	GUY WIRE
	ELECTRIC HANDHOLE
	GAS METER
	GAS VALVE
AC	AIR CONDITIONING UNIT
T	TELEPHONE RISER
TEL	TELEPHONE VAULT
T	TELEPHONE MANHOLE
TS	TRAFFIC SIGNAL MANHOLE
FO	FIBER OPTIC MANHOLE
FO	FIBER OPTIC RISER
FOS	FIBER OPTIC VAULT
TV	CABLE TV RISER
	SIGN
	BOLLARD
7	DENOTES NUMBER OF PARKING STALLS
	PROPERTY CORNER - FOUND AS NOTED
	PROPERTY CORNER- PLACED AS NOTED
	SECTION CORNER - FOUND AS NOTED

UTILITY MAPS PROVIDED BY:
1. ELECTRIC (ALLIANT ENERGY / 800-255-4268)
2. STORM AND SANITARY (REF. SNYDER & ASSOC. PLANS)
3. FIBER OPTIC (WINDSTREAM COMM / 800-289-1901)
4. GAS (IOWA REGIONAL UTILITY ASSOC. / 641-792-7011)5
5. WATER (BLACK HILLS ENERGY / 515-343-2037)

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811

UTILITY NOTE:
THE LOCATION OF THE UTILITIES INDICATED ON THE PLANS HAVE BEEN TAKEN FROM THE FIELD SURVEY, EXISTING PUBLIC RECORDS, AND PLANS PROVIDED BY OTHERS. SURFACE UTILITY LOCATIONS HAVE BEEN FIELD LOCATED BY BISHOP ENGINEERING, UNLESS OTHERWISE NOTED. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE LOCATIONS ONLY. BISHOP ENGINEERING DOES NOT GUARANTEE THE UNDERGROUND LOCATION OF ANY UTILITIES SHOWN. IT SHALL BE THE DUTY OF THE CONTRACTOR TO DETERMINE THE LOCATION AND DEPTH OF ANY UNDERGROUND UTILITIES SHOWN AND IF ANY ADDITIONAL UTILITIES, OTHER THAN THOSE SHOWN ON THE PLANS, MAY BE PRESENT. A REQUEST WAS MADE TO IOWA ONE CALL FOR UTILITY PROVIDERS TO VERIFY, LOCATE, AND MARK THEIR UTILITIES IN THE FIELD.

LICENSED PROFESSIONAL ENGINEER
DAVID B. BENTZ
17143
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.

SIGNED: _____ DATE: _____
DAVID B. BENTZ, PE. 17143
LICENSE RENEWAL DATE: DEC. 31, 2027
PAGES OR SHEETS COVERED BY THIS SEAL: C0.1 - C7.2

Farnsworth GROUP
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(515) 225-3469 / info@f-w.com
www.f-w.com
Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

Newton, Iowa

DATE:	07/02/2026
DESIGNED:	BISHOP
DRAWN:	LCR
REVIEWED:	DBB
DAS NO.:	9239.04

SHEET TITLE:
CIVIL INFORMATION SHEET

SHEET NUMBER:
C0.1

PROJECT NO.: 02401959.001

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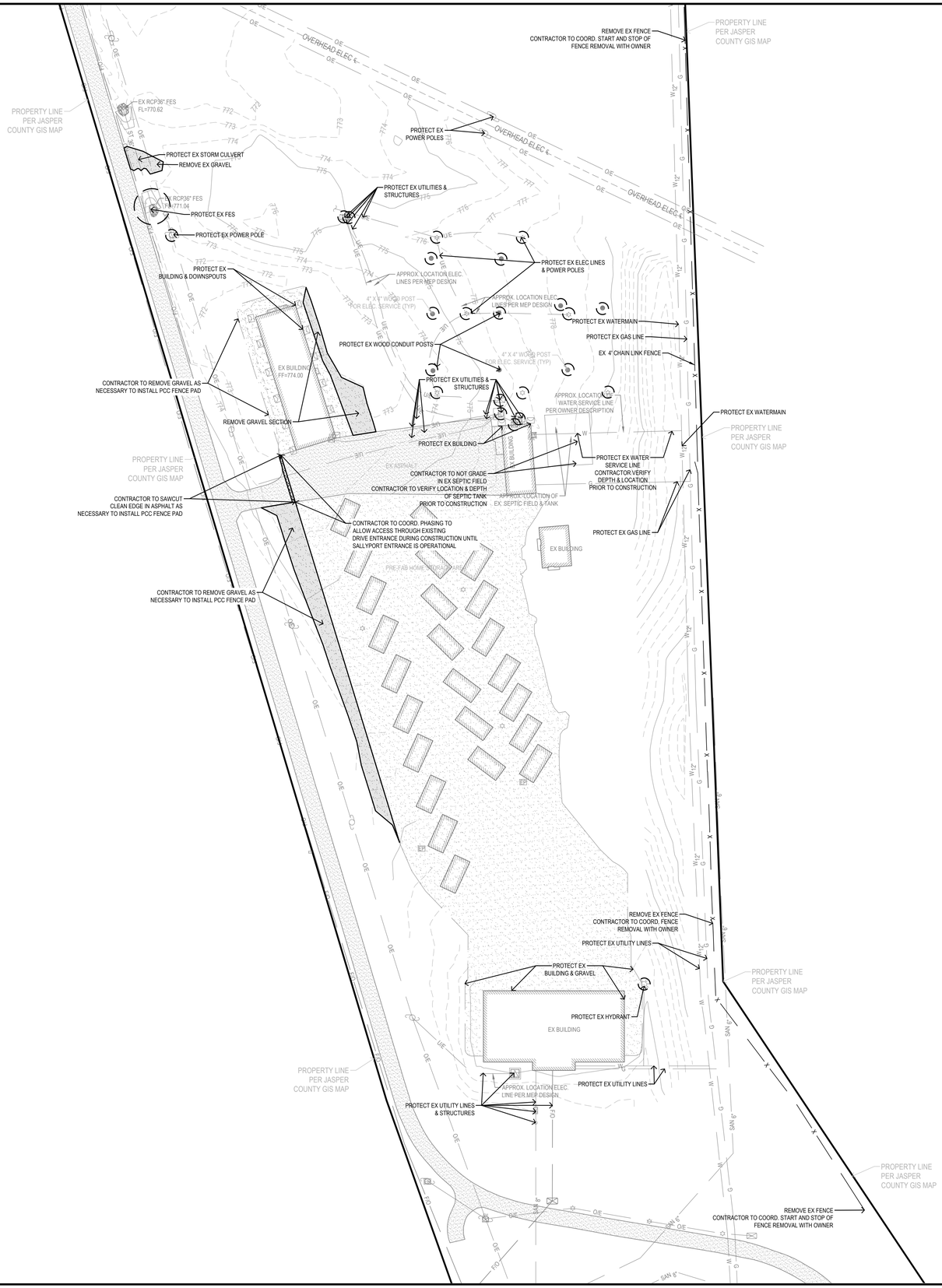

BID PACKAGE NOTES:

1. FOR DELINEATION OF BID PACKAGES BP-01 & BP-02, SEE SHEET C2.2

DENOTES PROTECTION:

DEMO NOTES:

1. CONTRACTOR TO LOCATE AND VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTH ON SITE PRIOR TO CONSTRUCTION AND CONTACT ENGINEER/OWNER IF DIFFERENT FROM PLANS OR IN CONFLICT IN CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO COORDINATE PERMITTING, SIGNAGE AND LANE CLOSURE WITH CITY OF NEWTON AS REQUIRED FOR WORK WITHIN RIGHT OF WAY PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR TO PROTECT ALL UTILITIES, PAVEMENTS AND STRUCTURES THAT ARE NOT SCHEDULED FOR REMOVAL. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED UTILITIES, PAVEMENTS, AND STRUCTURES NOT SCHEDULED FOR REMOVAL PER CITY/OWNER SPECIFICATIONS AT THE CONTRACTORS EXPENSE.
4. CONTRACTOR TO REMOVE EXISTING GRANULAR SURFACE AND UNSUITABLE MATERIALS WITHIN REMOVAL LIMITS SHOWN AND HAUL OFF TO AN APPROVED LOCATION.
5. CONTRACTOR TO COORDINATE WITH OWNER FOR SALVAGING & STORING MATERIALS AT A LOCATION DESIGNATED BY THE OWNER.
6. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS AND MEP FOR ANY REQUIRED RELOCATION OR ADJUSTMENT OF EXISTING FIBER, ELECTRIC AND GAS LINES AS NEEDED TO AVOID CONFLICT WITH CONSTRUCTION ACTIVITIES AND IMPROVEMENTS.
7. CONTRACTOR TO RE-GRAVEL SURROUNDING SURFACE ONCE CONSTRUCTION IS COMPLETE.

GRAPHIC SCALE
80 0 40 80 160

Farnsworth
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14225 UNIVERSITY AVENUE, SUITE 110
WAUKEE, IOWA 50263
(515) 225-3469 / info@f-w.com
www.f-w.com
Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

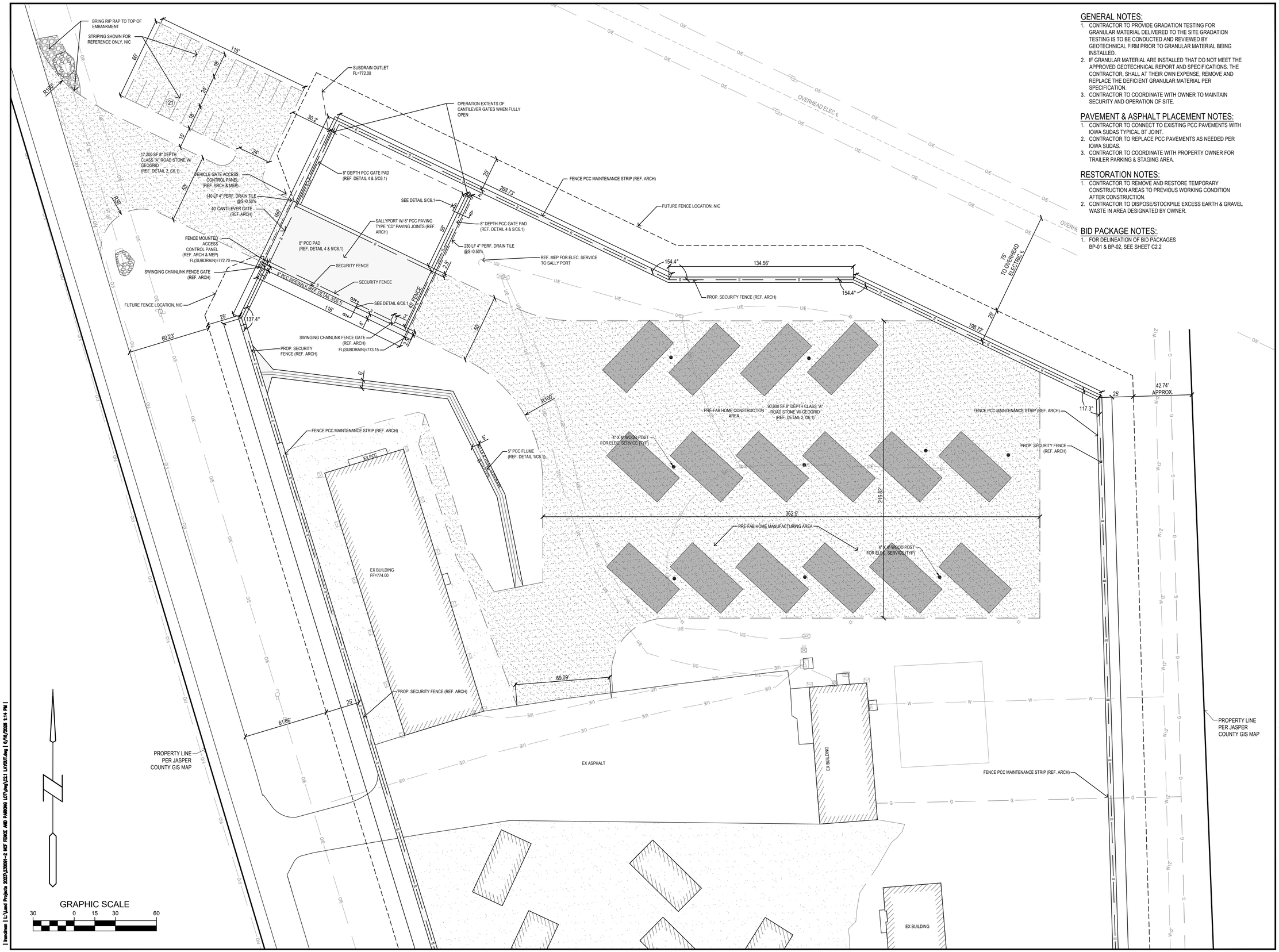
Newton, Iowa

DATE:	07/02/2026
DESIGNED:	BISHOP
DRAWN:	LCR
REVIEWED:	DBB
DAS NO.:	9239.04

SHEET TITLE:
SURVEY & DEMO PLAN

SHEET NUMBER:
C1.1

PROJECT NO.: 02401959.001



GENERAL NOTES:

1. CONTRACTOR TO PROVIDE GRADATION TESTING FOR GRANULAR MATERIAL DELIVERED TO THE SITE GRADATION TESTING IS TO BE CONDUCTED AND REVIEWED BY GEOTECHNICAL FIRM PRIOR TO GRANULAR MATERIAL BEING INSTALLED.
2. IF GRANULAR MATERIAL ARE INSTALLED THAT DO NOT MEET THE APPROVED GEOTECHNICAL REPORT AND SPECIFICATIONS. THE CONTRACTOR, SHALL AT THEIR OWN EXPENSE, REMOVE AND REPLACE THE DEFICIENT GRANULAR MATERIAL PER SPECIFICATION.
3. CONTRACTOR TO COORDINATE WITH OWNER TO MAINTAIN SECURITY AND OPERATION OF SITE.

PAVEMENT & ASPHALT PLACEMENT NOTES:

1. CONTRACTOR TO CONNECT TO EXISTING PCC PAVEMENTS WITH IOWA SUDAS TYPICAL BT JOINT.
2. CONTRACTOR TO REPLACE PCC PAVEMENTS AS NEEDED PER IOWA SUDAS.
3. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER FOR TRAILER PARKING & STAGING AREA.

RESTORATION NOTES:

1. CONTRACTOR TO REMOVE AND RESTORE TEMPORARY CONSTRUCTION AREAS TO PREVIOUS WORKING CONDITION AFTER CONSTRUCTION.
2. CONTRACTOR TO DISPOSE/STOCKPILE EXCESS EARTH & GRAVEL WASTE IN AREA DESIGNATED BY OWNER.

BID PACKAGE NOTES:

1. FOR DELINEATION OF BID PACKAGES BP-01 & BP-02, SEE SHEET C2.2

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Engineers | Architects | Surveyors | Scientists

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#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:

State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

Newton, Iowa

DATE:	07/02/2026
DESIGNED:	BISHOP
DRAWN:	LCR
REVIEWED:	DBB
DAS NO.:	9239.04

SHEET TITLE:

SALLYPORT & PARKING LAYOUT

SHEET NUMBER:

C2.1

PROJECT NO.: 02401959.001

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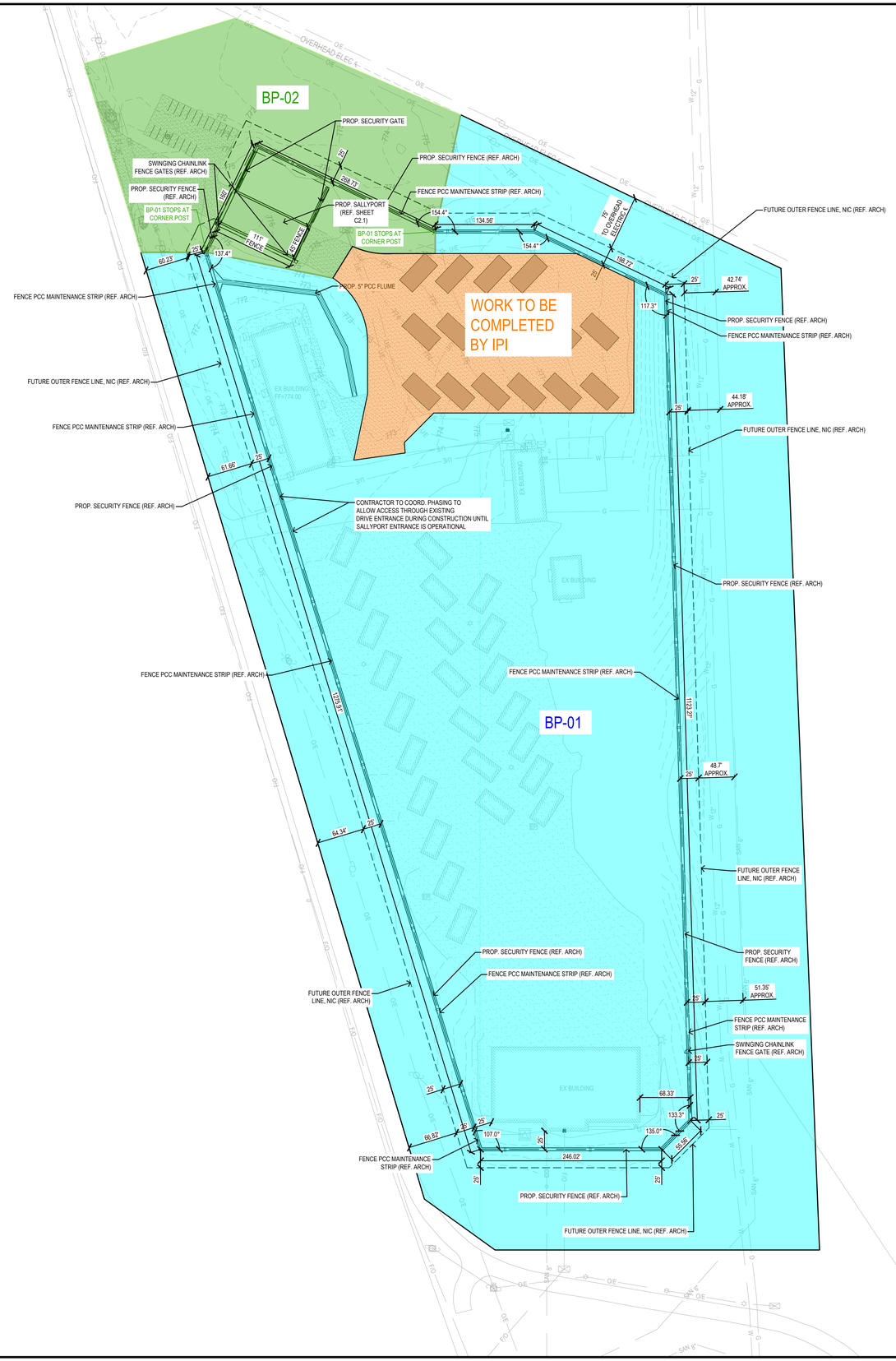

PROJECT NOTES:

1. THE OUTER FENCE LIMITS ARE SHOWN FOR FUTURE COORDINATION PURPOSES ONLY AND ARE NOT INCLUDED IN THIS CONTRACT
2. SPOT GRADES SHOWN ON PLANS ARE FOR FINISHED GRADE ELEVATIONS.
3. FENCE LOCATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATIONS AND LENGTHS OF FENCING.
4. ARCHITECTS PLANS TO GOVERN IN THE CASE OF ANY DISCREPANCY WITH CIVIL PLANS.
5. THIS PLAN SHOWS EXISTING GRADING AT FENCE LOCATIONS. ANY PROPOSED GRADING CHANGES CAN BE SEEN ON SHEET C3.1 GRADING PLAN

KEY:

- BID PACKAGE 1
- BID PACKAGE 2
- WORK TO BE COMPLETED BY IPI

GRAPHIC SCALE
80 0 40 80 160

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ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

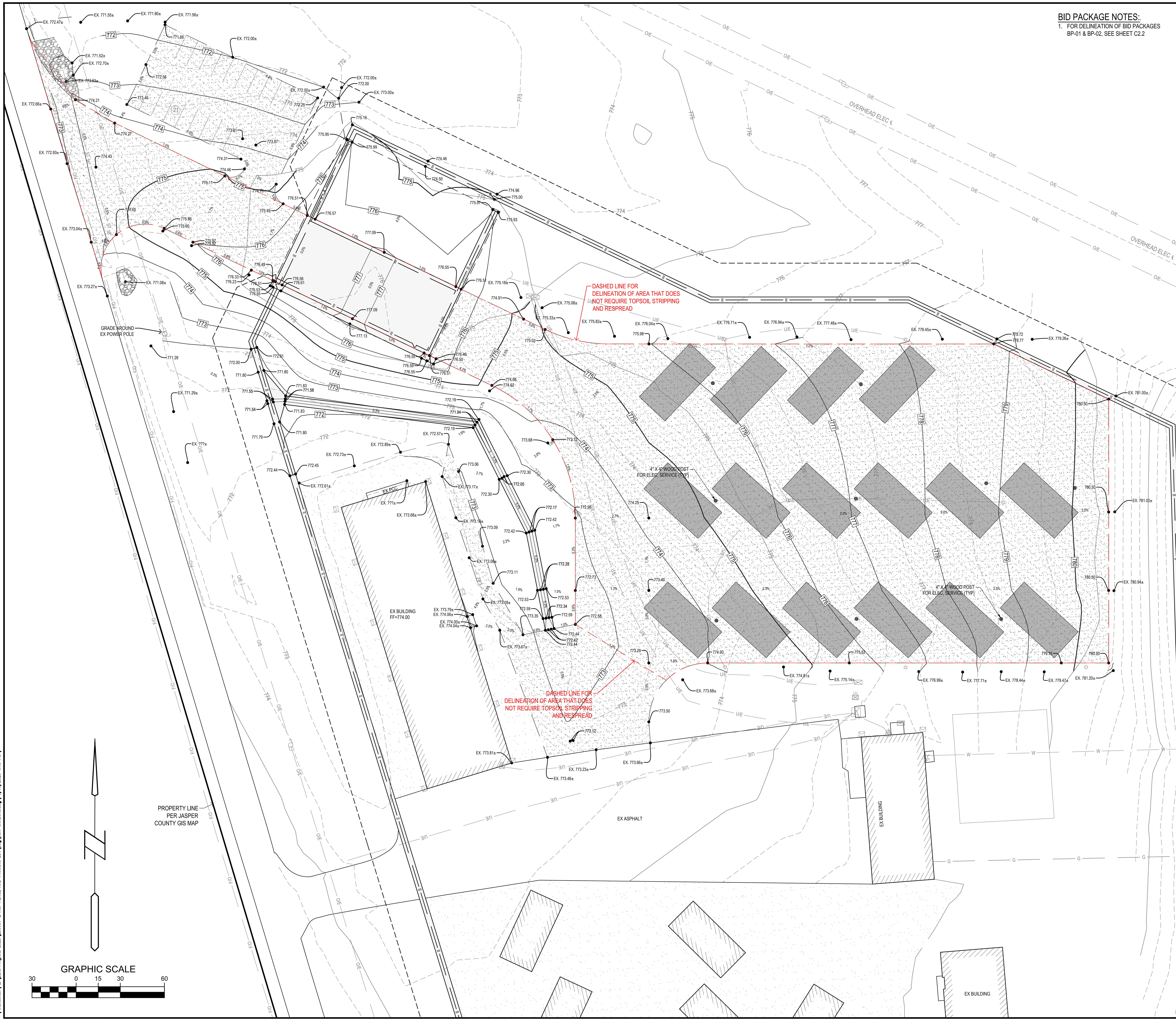
Newton, Iowa

DATE:	07/02/2026
DESIGNED:	BISHOP
DRAWN:	LCR
REVIEWED:	DBB
DAS NO.:	9239.04

SHEET TITLE:
OVERALL FENCE LAYOUT W/ EXISTING CONTOURS

SHEET NUMBER:
C2.2

PROJECT NO.: 02401959.001



BID PACKAGE NOTES:

1. FOR DELINEATION OF BID PACKAGES BP-01 & BP-02, SEE SHEET C2.2

GRADING LEGEND:

EXISTING CONTOUR	150
PROPOSED CONTOUR	150
FINISHED GROUND ELEVATION	150.50
TOP OF CURB ELEVATION	150.50T/C
GUTTER ELEVATION	150.50G
TOP OF WALL ELEVATION	150.50T/W
BOTTOM OF WALL ELEVATION	150.50B/W
EDGE OF WALK ELEVATION	150.50E/W
TOP OF STAIR ELEVATION	150.50T/S
BOTTOM OF STAIR ELEVATION	150.50B/S

NOTE: WALL ELEVATIONS SHOWN ON PLAN ARE FINISHED GROUND GRADES AT THE TOP AND BOTTOM OF THE WALL.

TOPSOIL NOTES:

1. STRIP AND STOCKPILE THE TOP 8" OF SOIL ON ALL DISTURBED AREAS.
2. RESPREAD TOPSOIL TO A MINIMUM DEPTH OF 8" ON ALL GREEN (NON PAVED) AREAS. IMPORT TOPSOIL AS NECESSARY TO ACHIEVE A MINIMUM DEPTH OF 6".
3. **TOPSOIL SHALL BE FREE OF ALL ROCK AND DEBRIS LARGER THAN 3/4" IN SIZE.**
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TOPSOIL REQUIREMENTS OF NPDES GENERAL PERMIT NO. 2 ARE MET.
5. **NOTE THAT THE PROPOSED GRAVEL DRIVE, GRAVEL HOME CONSTRUCTION AREA AND SALLY PORT AREA (SEE DASHED LINE ON THIS SHEET) DO NOT NEED TO BE STRIPPED AND RESPREAD. CONTRACTOR DID NOT RESPREAD TOPSOIL IN THESE AREAS AND THEY WILL REQUIRE GRADING, COMPACTION AND THE PCC OR GRAVEL SECTION INSTALLED AS SEEN IN DETAILS 2 & 4 ON SHEET C6.1. ALL OTHER AREAS NEEDING GRAVEL, SIDEWALK, FENCE MAINTENANCE STRIP OR FLUME WILL REQUIRE STRIPPING OF TOP SOIL OR ROCK.**
6. ALL EXCESS SOIL FROM STRIP AND RESPREAD TO BE STOCKPILED NORTH OF PROJECT AREA, CONTRACTOR TO COORDINATE WITH OWNER FOR LOCATION.

EARTHWORK VOLUME:

CUT VOLUME: 240 CY
FILL VOLUME: 3,440 CY
NET: 3,200 CY (FILL)

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Newton, Iowa

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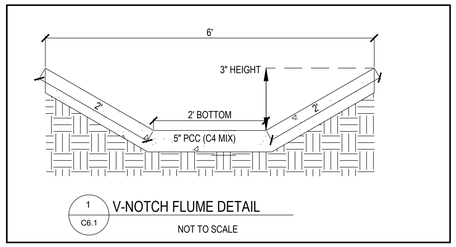
SHEET TITLE:
SALLYPORT & PARKING GRADING PLAN

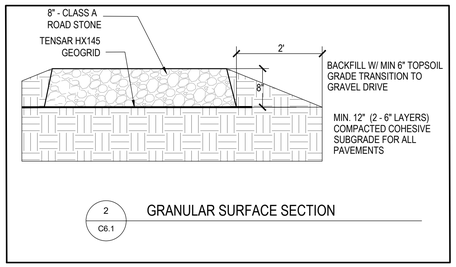
SHEET NUMBER:
C3.1

PROJECT NO.: 02401959.001

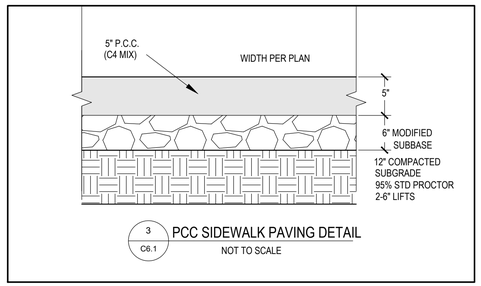


1 C6.1 V-NOTCH FLUME DETAIL

NOT TO SCALE

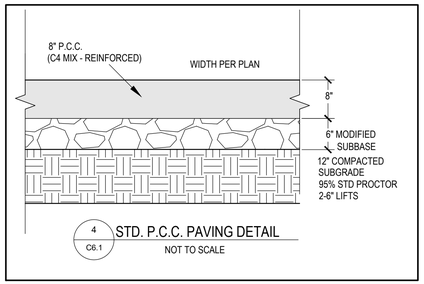


2 C6.1 GRANULAR SURFACE SECTION



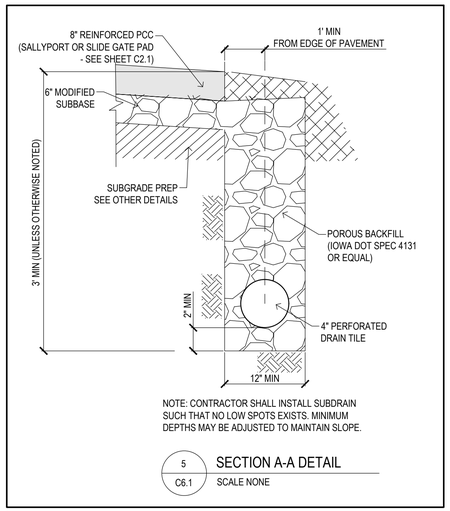
3 C6.1 PCC SIDEWALK PAVING DETAIL

NOT TO SCALE



4 C6.1 STD. P.C.C. PAVING DETAIL

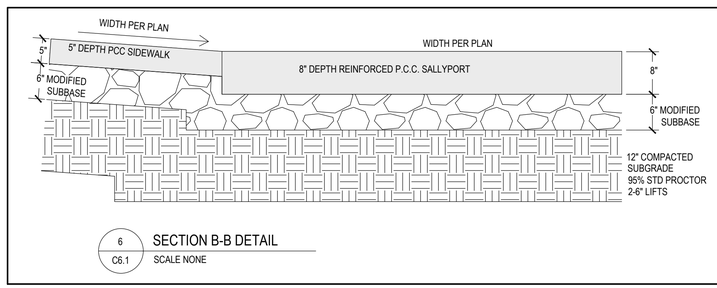
NOT TO SCALE



NOTE: CONTRACTOR SHALL INSTALL SUBDRAIN SUCH THAT NO LOW SPOTS EXISTS. MINIMUM DEPTHS MAY BE ADJUSTED TO MAINTAIN SLOPE.

5 C6.1 SECTION A-A DETAIL

SCALE NONE



6 C6.1 SECTION B-B DETAIL

SCALE NONE

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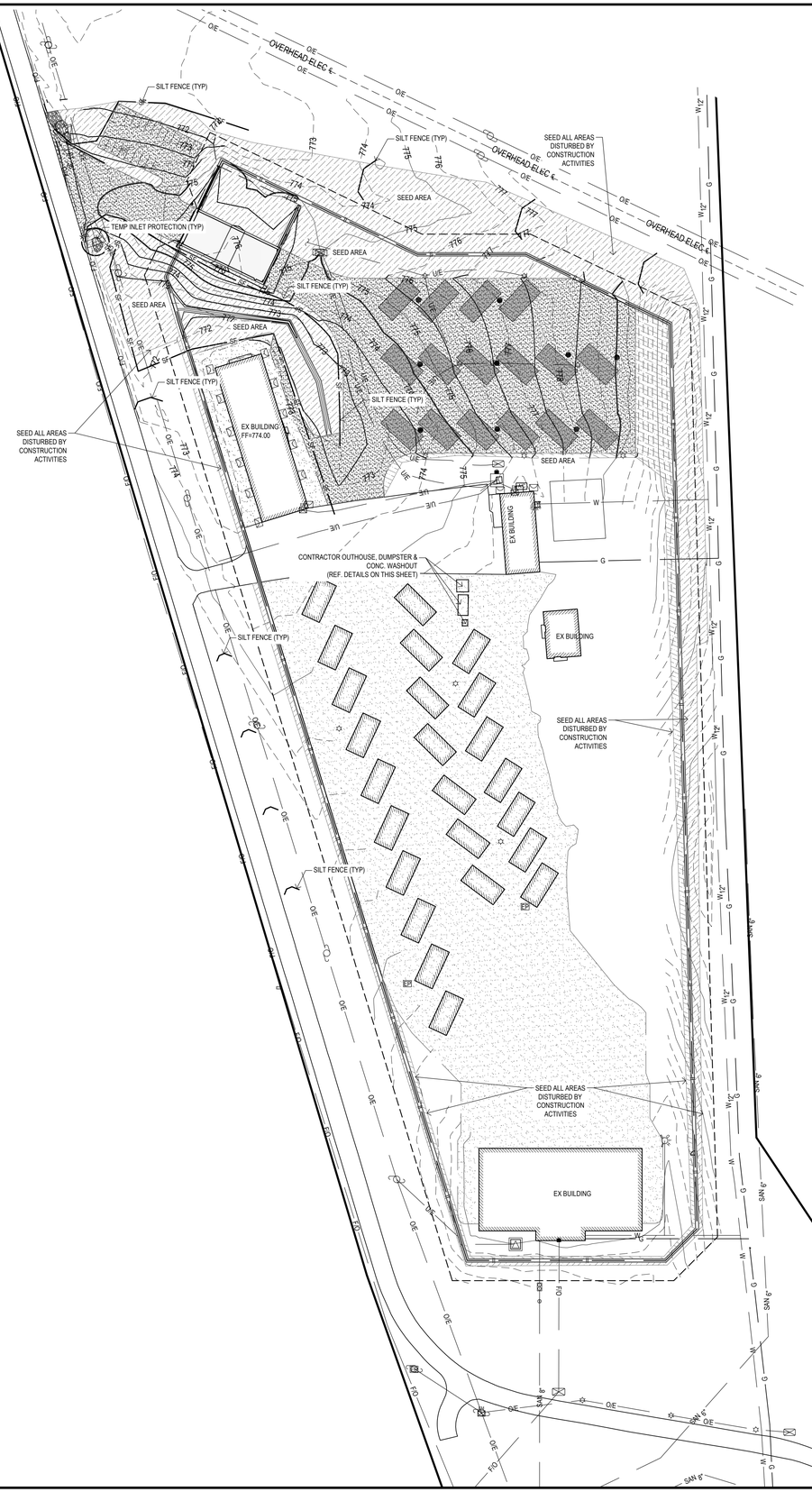
SHEET TITLE:

DETAILS

SHEET NUMBER:

C6.1

PROJECT NO.: 02401959.001



GRAPHIC SCALE

80 0 40 80 160

(PROFILE VIEW) (PLAN VIEW)

1 C.Y. CONCRETE WASH-OUT BAG — 1 C.Y. CONCRETE WASH-OUT BAG

"T' FENCE POST 5' MIN

NOTES:
1. 1 C.Y. CONCRETE BAG SHALL BE REQUIRED AT ANY LOCATION WHERE CONCRETE IS USED.
2. CONCRETE WASHOUT DUMPSTER W/ HEAVY DUTY LINER IS AN ACCEPTIBLE ALTERNATIVE

CONCRETE WASH-OUT BAG DETAIL
NOT TO SCALE

(PLAN VIEW)

NOTES:

1. SECURE TOP OF FABRIC TO POSTS, USING CABLE TIES OR WIRE.

2. FABRIC TO BE BURIED 12", AND FOLDED ALONG BOTTOM.

3. STEEL POSTS TO BE EMBEDDED 28".

5'-0" x 5'-0"

DROP INLET BASKET PROTECTION
INLET
SILT FENCE FABRIC IF APPLICABLE
"T' FENCE POST, 5' MIN.

INLET PROTECTION DETAIL
NOT TO SCALE

EROSION CONTROL NOTES:

1. SEE SUPPLEMENTAL DETAIL STORM WATER POLLUTION PLAN NARRATIVE FOR ALL EROSION CONTROL MEASURES, ADDITIONAL DETAILS AND NOTE. ADDITIONAL NOTES AND MEASURES IN NARRATIVE SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE ORIGINAL BID.
2. SWPPP PLAN AND NARRATIVE ARE CONSIDERED A LIVING DOCUMENT AND WILL NEED PERIODIC UPDATES AND ADJUSTMENTS AS NECESSARY DEPENDING ON SITE CONDITIONS TO ASSURE COMPLIANCE WITH NPDES GENERAL PERMIT NO. 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE THE SWPPP AND IMPLEMENT ANY AND ALL MEASURES NECESSARY TO COMPLY WITH SAID PERMIT NO. 2.
3. INSTALL PERIMETER SILT FENCE AS SHOWN ON PLANS PRIOR TO CONSTRUCTION.
4. INSTALL INTAKE PROTECTION WITH SILT FENCE IMMEDIATELY AFTER STORM SEWER CONSTRUCTION.
5. INSTALL FINISHED PAVING INLET PROTECTION IMMEDIATELY AFTER PAVING IS COMPLETED AROUND INTAKE.
6. OTHER EROSION CONTROL TYPES MAY NOT BE SUBSTITUTED FOR SILT FENCE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A CONCRETE WASHOUT IN ACCORDANCE WITH NPDES GENERAL PERMIT NO. 2 DURING ALL CONCRETE WORK. CONCRETE WASHOUT SHALL MEET SUDAS SPEC 11050.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING TEMPORARY RESTROOM FACILITIES. SANITARY WASTE SHALL BE DISPOSED OF PER ALL FEDERAL, STATE AND LOCAL REGULATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TOPSOIL REQUIREMENTS OF NPDES GENERAL PERMIT NO. 2 ARE MET.
10. THIS PROJECT INCLUDES SAWCUTTING OR CONCRETE GRINDING SO PROTECTION OF STORM SEWERS AND DRAINAGE WAYS WILL NEED TO BE PROVIDED FROM SLURRY FROM THE CONCRETE OPERATIONS TO DISCHARGE OFFSITE. SEE SWPPP SHEET AND NARRATIVE FOR ADDITIONAL DETAILS.
11. CONTRACTOR SHALL PROVIDE APPROPRIATE CONTROLS TO PREVENT DISCHARGES FROM ANY AND ALL DEWATERING ACTIVITIES.
12. SEE LANDSCAPE PLAN FOR FINAL STABILIZATION INCLUDING SEEDING AND SODDING AREAS.
13. PER NPDES GENERAL PERMIT NO. 2, IF CONSTRUCTION ACTIVITY IS NOT PLANNED FOR AT LEAST 14 DAYS, ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY BY TEMPORARY EROSION CONTROL MEASURES.
14. THE FOLLOWING DISCHARGES ARE PROHIBITED: WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OIL, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS, FUEL, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING

EROSION CONTROL REMOVAL NOTES:

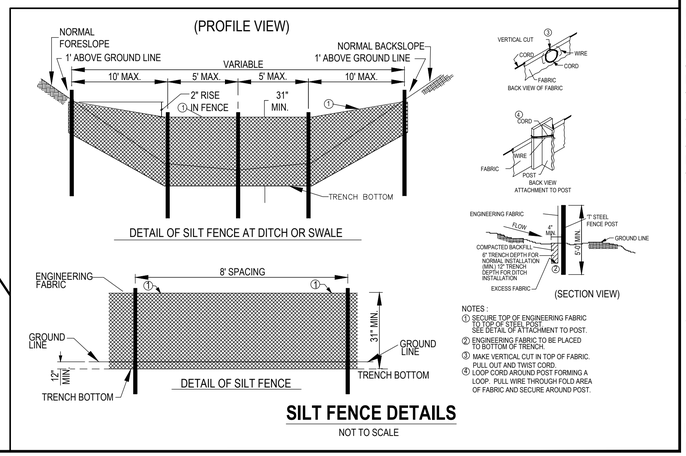
1. AFTER FINAL STABILIZATION HAS OCCURED, AS DEFINED IN NPDES GENERAL PERMIT NO. 2, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO: SILT FENCE, INLET PROTECTION, AND TEMPORARY STANDPIPES.

LANDSCAPE NOTES:

1. ALL SODDING/SEEDING & LANDSCAPE PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE URBAN STANDARD SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE.
2. SOD/SEED ALL DISTURBED AREAS WITHIN THE CONTRACT LIMITS, UNLESS NOTED OTHERWISE. SOD/SEED LIMITS SHOWN ON PLAN ARE FOR REFERENCE ONLY. FINAL LIMITS MAY CHANGE BASED ON CONSTRUCTION ACTIVITIES.
3. STAKE SOD ON ALL SLOPES 3 : 1 OR GREATER.
4. PLANT QUANTITIES ARE FOR CONTRACTORS CONVENIENCE, THE DRAWING SHALL PREVAIL IF A CONFLICT OCCURS.
5. ALL PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1).
6. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF INITIAL ACCEPTANCE.
7. FOR WARRANTY PURPOSES, THE DATE OF INITIAL ACCEPTANCE SHALL BE SUBMITTED IN WRITING TO THE OWNER AND/OR OWNER'S REPRESENTATIVE AFTER ALL PLANT MATERIALS HAVE BEEN INSTALLED AND REVIEWED BY OWNER OR OWNER'S REPRESENTATIVE. PLANT MATERIALS WILL ONLY BE ACCEPTED IF THEY ARE IN AN ALIVE AND THRIVING CONDITION.
8. CONDITIONAL ACCEPTANCE OF PLANT MATERIAL MAY BE GIVEN FOR PLANTS INSTALLED IN A DORMANT CONDITION WITH INITIAL ACCEPTANCE OCCURRING THE FOLLOWING SPRING ONCE THEY ARE SHOWN TO BE ALIVE AND THRIVING.
9. IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE IDENTIFICATION TAGS AND CORDS ON ALL PLANT MATERIAL PRIOR TO THE COMPLETION OF THE CONTRACT. IDENTIFICATION TAGS (INCLUDING SIZING INFORMATION) MUST BE LEFT ON UNTIL AFTER ACCEPTANCE BY OWNER OR OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL PLACE SHREDDED HARDWOOD MULCH AROUND ALL TREES, SHRUBS AND GROUND COVER BEDS TO A DEPTH OF 4 INCHES, UNLESS NOTED.
11. STAKING AND GUYING OF TREES SHALL BE AT THE DISCRETION OF THE CONTRACTOR BASED ON CURRENT ACCEPTED NURSERY STANDARDS. GENERALLY, TREES IN LARGE OPEN AREAS SUBJECT O SIGNIFICANT WIND SHALL BE STAKED. STAKE AND WRAP TREES IMMEDIATELY AFTER PLANTING. CONTRACTOR SHALL ADJUST AND MAINTAIN GUYING TENSION THROUGHOUT THE PLANT ESTABLISHMENT PERIOD. REMOVE ALL STAKES AND GUY WIRES NO MORE THAN ONE YEAR AFTER INSTALLATION.
12. THE LANDSCAPING CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED BEFORE STARTING ANY SITE WORK OR PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
13. NO LANDSCAPE MATERIAL SHALL BE SUBSTITUTED WITHOUT THE AUTHORIZATION OF THE LANDSCAPE ARCHITECT.
14. ALL EDGING SHALL BE DURAEDGE 3/16" STEEL EDGING - COLOR BLACK, OR APPROVED EQUAL..
15. CONTRACTOR SHALL BE RESPONSIBLE MAINTAINING APPROPRIATE LEVEL OF WATERING FOR ALL NEW PLANTS FOR A PERIOD OF 30 DAYS.
16. ALL SHRUB AND PERENNIAL PLANTING BEDS SHALL BE MULCHED WITH 4" THICK SHREDDED HARDWOOD MULCH.
14. ALL SHRUB AND PERENNIAL PLANTING BEDS SHALL INCORPORATE TYPAR 3301 NONWOVEN LANDSCAPE FABRIC (OR SIMILAR) AND 3" THICK LAYER OF WASHED RIVER ROCK (1.5" NOMINAL SIZE).
15. ALL BEDS TO RECEIVE GRANULAR PRE-EMERGENT WEED CONTROL BEFORE AND AFTER MULCH/ROCK IS INSTALLED.

BID PACKAGE NOTES:

1. FOR DELINEATION OF BID PACKAGES BP-01 & BP-02, SEE SHEET C2.2



SILT FENCE DETAILS
NOT TO SCALE

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Newton, Iowa

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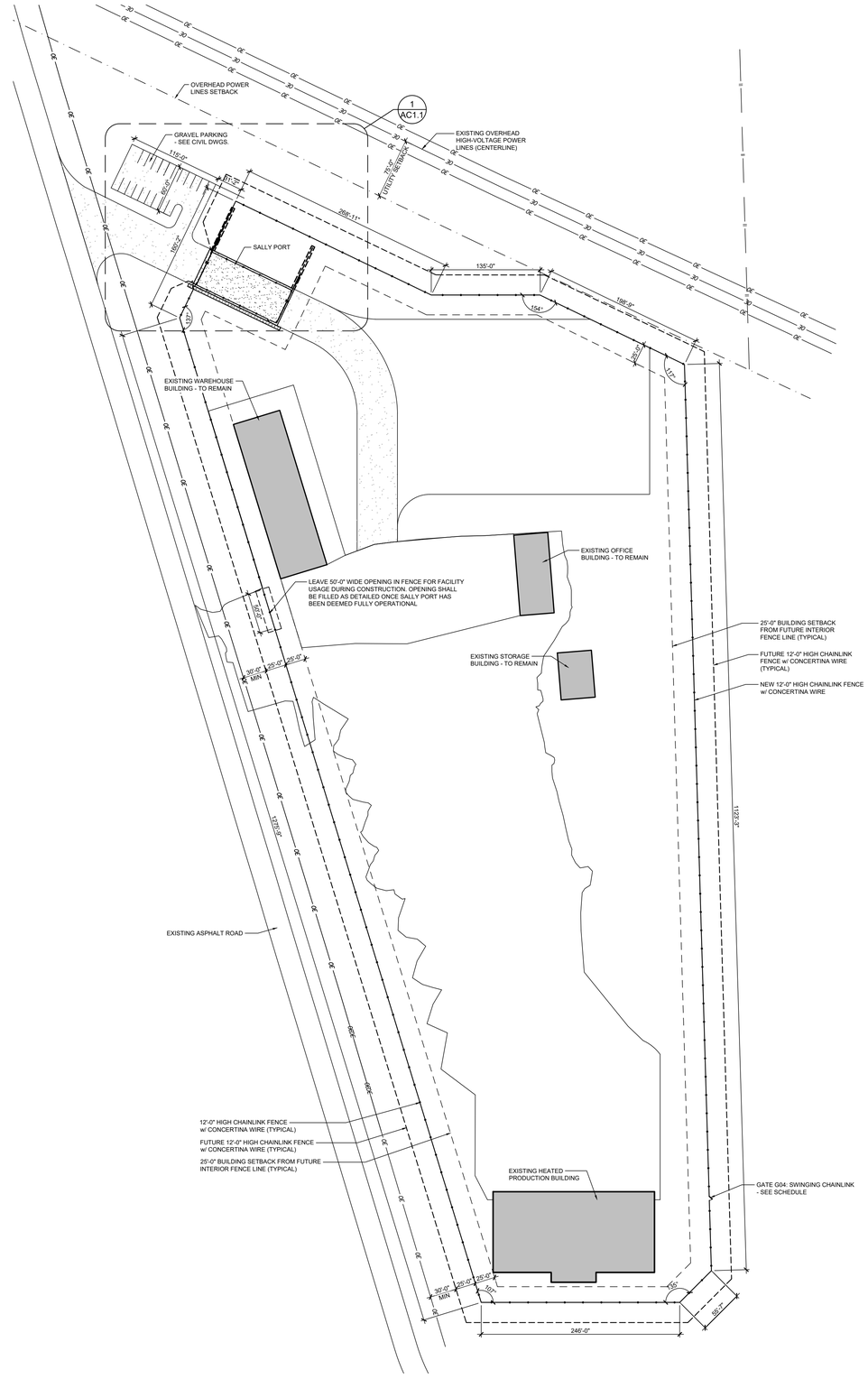
SEEDING & EROSION CONTROL

SHEET NUMBER:
C7.1

PROJECT NO.: 02401959.001

7/1/2026 10:39:21 AM L:\LAND PROJECTS 2023\23009\1-2 NCF FENCE AND PARKING LOT\dwg\C7.1 SWPPP & SEEDING.DWG
[kandrews] [L:\Land Projects 2023\23009\1-2 NCF FENCE AND PARKING LOT\dwg\C7.1 SWPPP & SEEDING.dwg] 6/16/2026 12:55 PM [



1 OVERALL SITE PLAN

SCALE: 1" = 80'-0"

GENERAL SITE NOTES:

1. ALL SITE WORK SHALL COMPLY WITH THE STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS).
2. CONTRACTOR SHALL ADJUST ALL UTILITIES TO THE FINISH GRADE. UTILITY ADJUSTMENTS SHALL BE INCLUDED IN THE BID FOR GRADING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES. ANY DAMAGE TO SAID UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT O.S.H.A. CODES AND STANDARDS. NOTHING INDICATED ON THESE PLANS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE APPROPRIATE SAFETY REGULATIONS.
5. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN PROVIDING FOR STORM WATER FLOW DURING CONSTRUCTION. DO NOT RESTRICT FLOWS IN EXISTING DRAINAGE CHANNELS, STORM SEWER, OR FACILITIES.
6. THE OWNER'S GEOTECHNICAL ENGINEER SHALL MONITOR THE GRADING OF THE PAVEMENT SUBGRADE, AND PROVIDE DENSITY TESTS. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE FINISHED SUBGRADE PRIOR TO PAVING TO DETERMINE IF ADDITIONAL WORK IS REQUIRED. SOILS TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
7. SITE CONTOURS SHOWN ARE EXISTING GRADES. MINOR GRADING SHALL BE PERFORMED TO ACCOMMODATE INSTALLATION OF PERIMETER FENCE COMPONENTS.
8. CONTRACTOR SHALL CONTACT OWNER 48 HOURS PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL PICK UP ANY DEBRIS SPILLED ONTO THE ADJACENT PROPERTY AND RIGHT OF WAY AS THE RESULT OF CONSTRUCTION.
10. CONTRACTOR TO OBTAIN ANY AND ALL NECESSARY PERMITS FOR THIS PROJECT.
11. THIS SITE WILL BE DISTURBED DURING DEMOLITION, TREE CLEARING, FENCE INSTALLATION, OR OTHER CONSTRUCTION ACTIVITIES. ANY PROPERTY DISTURBED BY THIS CONSTRUCTION PROJECT SHALL BE RESTORED TO ORIGINAL CONDITION. PREPARE SEEDBED, FERTILIZE, AND SEED IN ACCORDANCE WITH SUDAS SPECIFICATIONS.

DEMOLITION NOTES:

1. EXISTING STRUCTURE AND ADJACENT PAVEMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING UTILITIES TO REMAIN. COORDINATE ANY NECESSARY ADJUSTMENTS WITH THE UTILITY SERVICE PROVIDER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE OR DETERMINING THE EXISTENCE, EXACT LOCATION AND DEPTH OF UTILITIES IN PROXIMITY OF PROPOSED WORK PRIOR TO CONSTRUCTION.
3. REMOVE/MODIFY EXISTING GRAVEL-SURFACE ACCESS DRIVE AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE RELOCATION OF EXISTING MATERIALS WITH CONSTRUCTION OF NEW CONCRETE PAVED ACCESS DRIVE.

SALLY PORT GATE OPERATION PROCEDURES:

1. ALL SALLY PORTS SHALL BE CONTROLLED BY STAFF LOCATED IN A SECURE AREA EITHER ADJACENT TO THE GATE OR REMOTELY LOCATED.
2. TWO INDEPENDENTLY OPERATED GATES AND/OR DOORS. THESE GATES/DOORS SHALL BE ELECTRONICALLY, MECHANICALLY, OR PHYSICALLY INTERLOCKED SO THAT ONLY ONE GATE/DOOR MAY BE OPENED AT ONE TIME.
3. ENTERING COMPOUND PROCEDURES:
   - AS A VEHICLE APPROACHES TO ENTER THE SALLY PORT, THE VEHICLE WILL STOP AND PRODUCE A VALID ID IN ORDER TO BE AUTHORIZED INTO THE SALLY PORT. ONCE THE ID HAS BEEN VALIDATED AND THE VEHICLE IS ALLOWED TO ENTER THE SALLY PORT, THE ENTRY GATE MAY BE OPENED.
   - THE ENTERING VEHICLE WILL STOP IN THE SALLY PORT ONCE CLEARED OF THE OPEN GATE AND PRIOR TO THE SECOND GATE. ONCE THE OPEN GATE HAS BEEN RE-SECURED, THE VEHICLE WILL BE THOROUGHLY SEARCHED.
   - ONCE THE SEARCH OF THE VEHICLE IS COMPLETED, THE SECOND GATE CAN BE OPENED TO ALLOW THE VEHICLE TO ENTER.
4. EXITING COMPOUND PROCEDURES:
   - MINUS HAVING TO PRODUCE AN ID, THE OVERALL PROCESS IS REVERSED. ONCE THE VEHICLE IS SECURED IN THE SALLY PORT AREA, THE VEHICLE WILL BE SEARCHED AND ALL INMATES SHALL BE ACCOUNTED FOR PRIOR TO OPENING THE OUTER GATE FOR THE VEHICLE TO EXIT.

PAVING NOTES:

1. ALL PAVING WORK SHALL COMPLY WITH THE STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS).
2. THE PAVING CONTRACTOR SHALL BACKFILL THE PAVING SLAB AND FINE GRADE AREAS DISTURBED BY NEW CONSTRUCTION AS SOON AFTER THE PAVING AS POSSIBLE. DISTURBED LANDSCAPED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
3. SAWCUT NEW PAVEMENT INTO SQUARES BETWEEN APPROXIMATELY 12' X 12' AND 15' X 15'. LENGTH SHALL NOT EXCEED 150% OF WIDTH.
4. PLACE 1/2" EXPANSION JOINT MATERIAL (FIBERBOARD) AROUND ALL STRUCTURES (MANHOLES, JUNCTION BOXES, POLES, BOLLARDS, ETC.) IN PAVEMENT; NEXT TO BUILDING, AND ALONG ADJACENT SIDEWALKS.
5. CONTRACTOR TO PROVIDE SAWCUT JOINTING PLAN TO OWNER OR OWNER'S REPRESENTATIVE PRIOR TO ANY CONCRETE PAVEMENT INSTALLATION.
6. PAVEMENT MAY BE REQUIRED TO BE REMOVED AND REPLACED IF PLACED WITHOUT AN APPROVED JOINTING PLAN.
7. LONGITUDINAL JOINTS IN DRIVE LANES SHALL BE TYPE "CD" CONTRACTION JOINTS AND HAVE STEEL. PROVIDE 36" LONG #4 BARS AT 30" CENTERS.

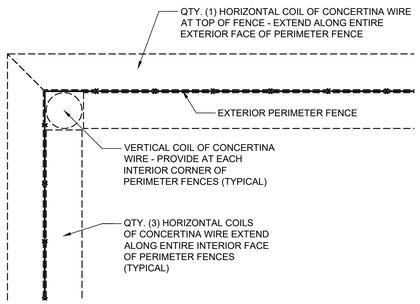
SECURITY FENCE NOTES:

1. SECURITY FENCE MATERIALS:
   - RAZOR TAPE: 30" DIAMETER STAINLESS STEEL BARBED TAPE 51 LOOP 5-CLIP 25 FT STAINLESS STEEL CORE WIRE.
   - CONCERTINA (DANNERT) WIRE: BARBED TAPE ASTM F 1910 430 STAINLESS STEEL, .025 INCH (.6MM) THICK X 1 INCH (25MM) WIDE PRIOR TO FORMING, DIE STAMPED TO PRODUCE 4 BARBED POINTS AT 4 INCHES (100MM) ON CENTER. TAPE COLD CLENCHED OVER STAINLESS STEEL CORE WIRE WITH MINIMUM TENSILE STRENGTH OF 220,000 PSI (1,517MPA). 1.2 INCH (30.5MM) MINIMUM LENGTH FOR EACH BARB CONCERT IN A 5-CLIP CONFIGURATION. 30 INCH (750MM) COIL.
     - EACH ROLL OF RAZOR WIRE SHALL CONSIST OF 51 CONTINUOUS LOOPS, WITH ADJACENT LOOPS CLIPPED AT 5 EQUALLY SPACED LOCATIONS AROUND THE CIRCUMFERENCE TO PROVIDE CONCERTINA EFFECT. LOOP SPACING SHALL BE 12" (+/- 2"), FOR AN ERECTED LENGTH OF 25FT (+/- 2FT.) THESE CLIPS ARE INSTALLED IN SUCH A FASHION, AS TO PREVENT THE SLIPPING OF ONE LOOP PAST ANOTHER.
   - BULL RINGS: FABRICATED FROM .065"X .375" AISI T 430 STAINLESS STEEL, THAT ARE CAPABLE OF WITHSTANDING A MINIMUM LOAD OF 200 LBS.
2. RAZOR TAPE/CONCERTINA WIRE SHALL BE INSTALLED ON THE TOP OF EACH FENCE LINE. PROVIDE QTY. (3) HORIZONTAL ROLLS OF CONCERTINA WIRE ON THE INTERIOR FACE OF EACH PERIMETER FENCE LINES AND QTY. (1) ON THE EXTERIOR FACE ON THE TOP. SECURE HORIZONTAL ROLLS AT THE BOTTOM, MIDDLE AND JUST BELOW THE TOP ROLL OF RAZOR TAPE WITH CONCERTINA BULL RINGS TO THE FENCE.
3. INSIDE CORNER INSTALLATIONS:
   - INSTALL ADDITIONAL CONCERTINA WIRE (AKA DANNERT WIRE) AT EVERY CORNER AROUND THE COMPLEX AS NOTED. PROVIDE EITHER A CONCERTINA ROLL STRAND FROM THE TOP OF THE FENCE RAN VERTICALLY TO 7'-0" ABOVE GRAD AND SECURED TO THE FENCE ITSELF WITH CONCERTINA BULL RINGS OR PROVIDE A CRISS-CROSS PATTERN OF CONCERTINA WIRE IN THE CORNERS OF THE FENCES AND SECURED TO THE FENCE ABOVE 7'-0".
   - SECURE HORIZONTAL ROLLS TO VERTICAL ROLL AT CORNER AND FENCE WITH CORRESPONDING CONCERTINA BULL AND HOG RINGS.

STORM WATER POLLUTION PREVENTION PLAN GENERAL NOTES:

1. ADDITIONAL MEASURES TO MEET THE REQUIREMENTS OF THE SWPPP AND CHANGING SITE CONDITIONS MAY BE NEEDED.
2. ALL POLLUTION PREVENTION MEASURES REQUIRED, AS A RESULT OF CONSTRUCTION ACTIVITIES, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL ACTIONS NECESSARY FOR INSTALLATION OF CONTROL MEASURES FOR COMPLIANCE WITH PERMIT REQUIREMENTS.
3. ALL AREAS DISTURBED BY CONSTRUCTION SHALL NOT BE ALLOWED TO STAND BARREN FOR MORE THAN 14 DAYS. DISTURBED AREAS SHALL BE SEEDED OR MULCHED FOR TEMPORARY EROSION CONTROL UNTIL THE PERMANENT SURFACE IS IN PLACE. PERMANENT SURFACES INCLUDE BUILDING, PAVEMENT, GRANULAR SURFACE, OR LAWN.
4. WASHOUT FACILITIES SHALL BE A MINIMUM OF 50' FROM STORM DRAIN INLETS OR DRAINAGE WAYS.
5. SIGNAGE SHALL BE PROVIDED AT SITE TO IDENTIFY FACILITY.
6. INSPECTOR SHALL MEET IDNR AND EPA REQUIREMENTS FOR ALL INSPECTION INCLUDING BUT NOT LIMITED TO DISTURBED AREAS, TRACK OUT, ENTRANCE, DISCHARGE POINTS AND STORAGE AREAS.
7. MODIFICATIONS TO THE SWPPP SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
8. THE INSPECTION REPORTS SHALL INCLUDE THE INSPECTORS QUALIFICATIONS.
9. ANY CONTRACTOR PERFORMING LAND DISTURBING ACTIVITIES WILL SIGN A CONTRACTORS CERTIFICATION STATEMENT PRIOR TO BEGINNING WORK AT THE SITE. ALL CERTIFICATIONS SHALL BE INCLUDED IN THE SWPPP.

TYPICAL CONCERTINA WIRE CONNECTIONS:
- SECURE TO FENCE FABRIC w/ BULL RINGS
- SECURE COILS TO EACH OTHER w/ HOG RINGS



2 TYPICAL FENCING CORNER DETAIL

SCALE: 1/4" = 1'-0"

CHAINLINK GATE SCHEDULE

NUMBER	LEAFS	DOOR SIZE (W x H)	DETAIL	CONTROLS	REMARKS
G01	-	-	-	-	-
G02	1	3'-0" x 7'-0"	3/AC2.1	CC	NOTES: 1 & 2
G03	1	3'-0" x 7'-0"	3/AC2.1	CC	NOTES: 1 & 2
G04	1	5'-0" x 7'-0"	3/AC2.1	PADLOCK	NOTES: 3 & 4

GENERAL NOTES:
1. ALL GATES ARE SWINGING CHAIN LINK TYPE. SEE SPEC. FOR ADDITIONAL INFORMATION.
2. HARDWARE DESIGNATED AS "CC" DENOTES THE INTEGRATION OF REMOTE ACCESS CONTROLS MANAGED FROM THE MAIN FACILITY CONTROL CENTER.

OPENING SCHEDULE KEY NOTES:
NOTE 1: COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS.
NOTE 2: COORDINATE WITH ELECTRICAL CONTRACTOR FOR ACCESS CONTROL CONNECTIONS.
NOTE 3: COORDINATE WITH ELECTRICAL CONTRACTOR FOR ACCESS CONTROL ROUGH-INS.
NOTE 4: COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER ROUGH-INS.

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ISSUE:

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100% Bid Documents

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

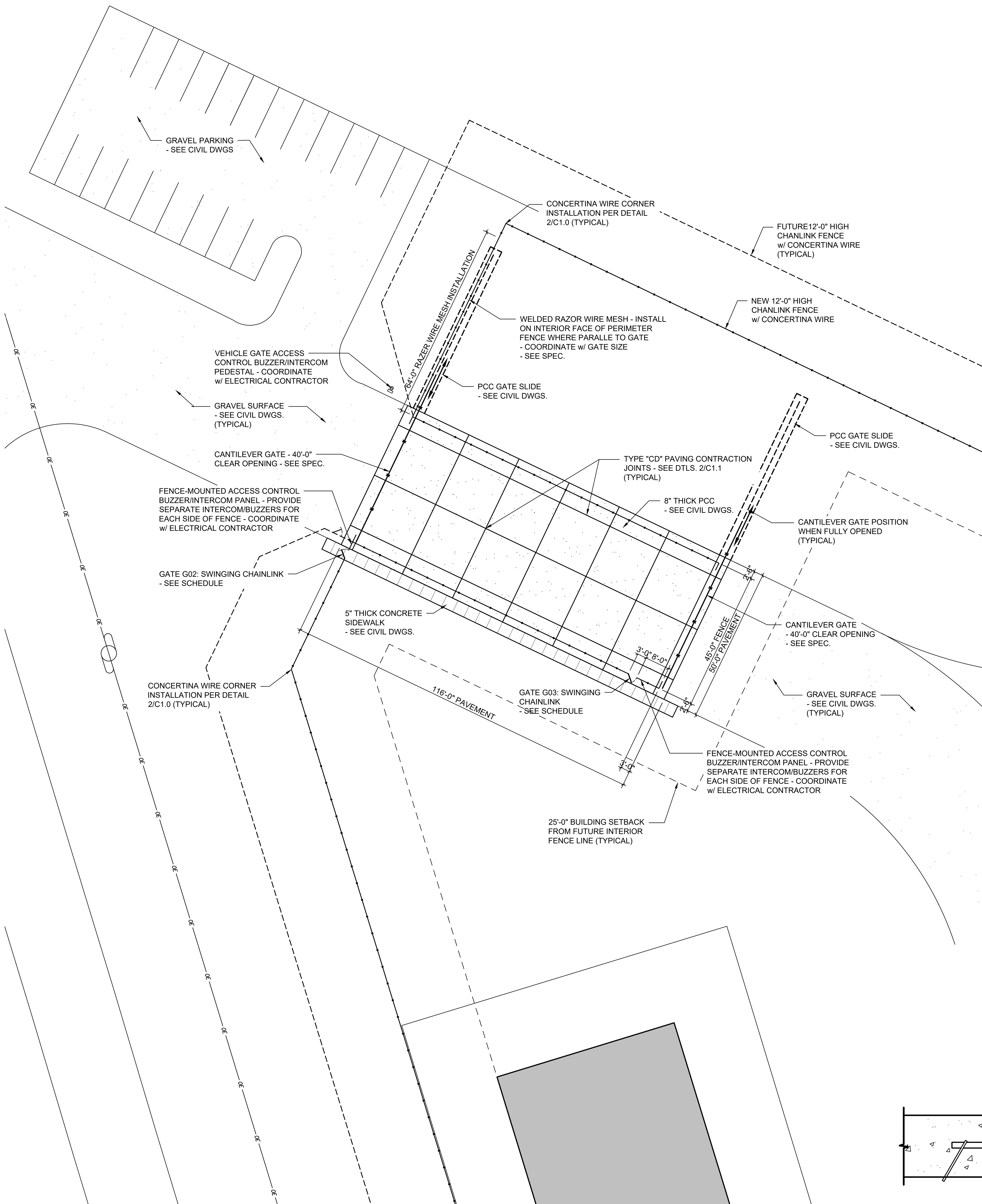
Newton, Iowa

DATE:	07/02/2026
DESIGNED:	LS
DRAWN:	KH
REVIEWED:	LS
DAS NO.:	9239.04

SHEET TITLE:
OVERALL ARCHITECTURAL SITE PLAN

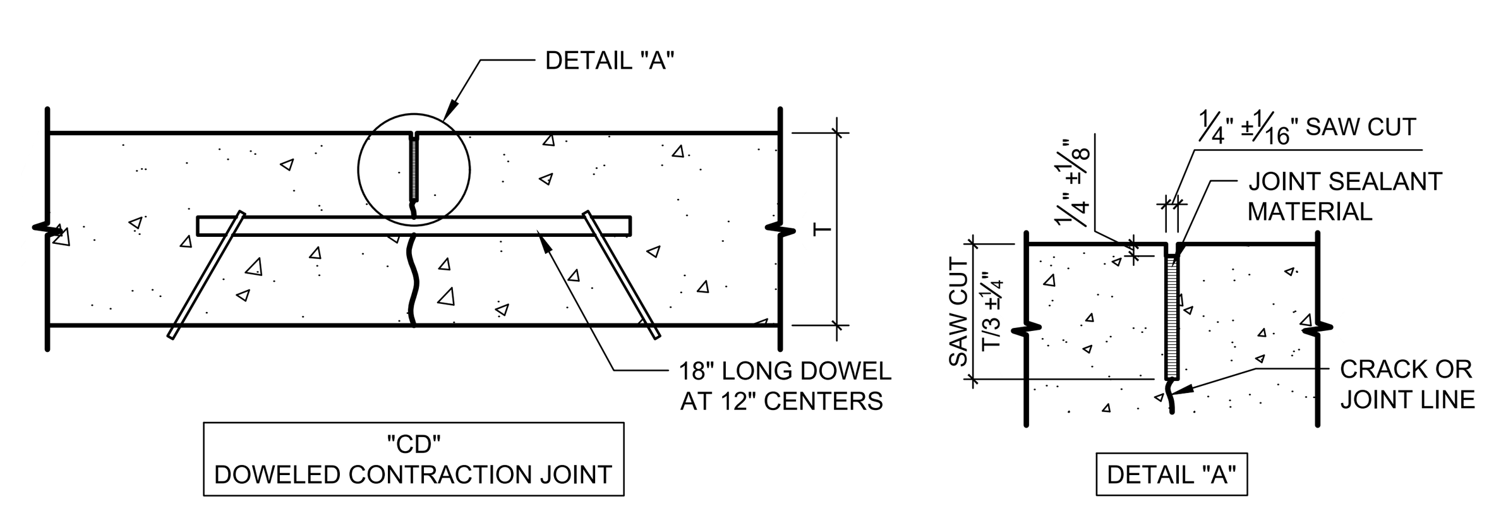
SHEET NUMBER:
AC1.0

PROJECT NO.: 02401959.001



1 ENLARGED SITE PLAN - SALLY PORT

SCALE: 1" = 20'-0"



2 PAVING JOINT DETAILS

SCALE: N.T.S.

GENERAL SITE NOTES:

1. ALL SITE WORK SHALL COMPLY WITH THE STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS).
2. CONTRACTOR SHALL ADJUST ALL UTILITIES TO THE FINISH GRADE. UTILITY ADJUSTMENTS SHALL BE INCLUDED IN THE BID FOR GRADING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES. ANY DAMAGE TO SAID UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT O.S.H.A. CODES AND STANDARDS. NOTHING INDICATED ON THESE PLANS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE APPROPRIATE SAFETY REGULATIONS.
5. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN PROVIDING FOR STORM WATER FLOW DURING CONSTRUCTION. DO NOT RESTRICT FLOWS IN EXISTING DRAINAGE CHANNELS, STORM SEWER, OR FACILITIES.
6. THE OWNER'S GEOTECHNICAL ENGINEER SHALL MONITOR THE GRADING OF THE PAVEMENT SUBGRADE, AND PROVIDE DENSITY TESTS. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE FINISHED SUBGRADE PRIOR TO PAVING TO DETERMINE IF ADDITIONAL WORK IS REQUIRED. SOILS TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
7. SITE CONTOURS SHOWN ARE EXISTING GRADES. MINOR GRADING SHALL BE PERFORMED TO ACCOMMODATE INSTALLATION OF PERIMETER FENCE COMPONENTS.
8. CONTRACTOR SHALL CONTACT OWNER 48 HOURS PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL PICK UP ANY DEBRIS SPILLED ONTO THE ADJACENT PROPERTY AND RIGHT OF WAY AS THE RESULT OF CONSTRUCTION.
10. CONTRACTOR TO OBTAIN ANY AND ALL NECESSARY PERMITS FOR THIS PROJECT.
11. THIS SITE WILL BE DISTURBED DURING DEMOLITION, TREE CLEARING, FENCE INSTALLATION, OR OTHER CONSTRUCTION ACTIVITIES. ANY PROPERTY DISTURBED BY THIS CONSTRUCTION PROJECT SHALL BE RESTORED TO ORIGINAL CONDITION. PREPARE SEEDBED, FERTILIZE, AND SEED IN ACCORDANCE WITH SUDAS SPECIFICATIONS.

DEMOLITION NOTES:

1. EXISTING STRUCTURE AND ADJACENT PAVEMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING UTILITIES TO REMAIN. COORDINATE ANY NECESSARY ADJUSTMENTS WITH THE UTILITY SERVICE PROVIDER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE OR DETERMINING THE EXISTENCE, EXACT LOCATION AND DEPTH OF UTILITIES IN PROXIMITY OF PROPOSED WORK PRIOR TO CONSTRUCTION.
3. REMOVE/MODIFY EXISTING GRAVEL-SURFACE ACCESS DRIVE AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE RELOCATION OF EXISTING MATERIALS WITH CONSTRUCTION OF NEW CONCRETE PAVED ACCESS DRIVE.

SALLY PORT GATE OPERATION PROCEDURES:

1. ALL SALLY PORTS SHALL BE CONTROLLED BY STAFF LOCATED IN A SECURE AREA EITHER ADJACENT TO THE GATE OR REMOTELY LOCATED.
2. TWO INDEPENDENTLY OPERATED GATES AND/OR DOORS. THESE GATES/DOORS SHALL BE ELECTRONICALLY, MECHANICALLY, OR PHYSICALLY INTERLOCKED SO THAT ONLY ONE GATE/DOOR MAY BE OPENED AT ONE TIME.
3. ENTERING COMPOUND PROCEDURES:
   - AS A VEHICLE APPROACHES TO ENTER THE SALLY PORT, THE VEHICLE WILL STOP AND PRODUCE A VALID ID IN ORDER TO BE AUTHORIZED INTO THE SALLY PORT. ONCE THE ID HAS BEEN VALIDATED AND THE VEHICLE IS ALLOWED TO ENTER THE SALLY PORT, THE ENTRY GATE MAY BE OPENED.
   - THE ENTERING VEHICLE WILL STOP IN THE SALLY PORT ONCE CLEARED OF THE OPEN GATE AND PRIOR TO THE SECOND GATE. ONCE THE OPEN GATE HAS BEEN RE-SECURED, THE VEHICLE WILL BE THOROUGHLY SEARCHED.
   - ONCE THE SEARCH OF THE VEHICLE IS COMPLETED, THE SECOND GATE CAN BE OPENED TO ALLOW THE VEHICLE TO ENTER.
4. EXITING COMPOUND PROCEDURES:
   - MINUS HAVING TO PRODUCE AN ID, THE OVERALL PROCESS IS REVERSED. ONCE THE VEHICLE IS SECURED IN THE SALLY PORT AREA, THE VEHICLE WILL BE SEARCHED AND ALL INMATES SHALL BE ACCOUNTED FOR PRIOR TO OPENING THE OUTER GATE FOR THE VEHICLE TO EXIT.

PAVING NOTES:

1. ALL PAVING WORK SHALL COMPLY WITH THE STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS).
2. THE PAVING CONTRACTOR SHALL BACKFILL THE PAVING SLAB AND FINE GRADE AREAS DISTURBED BY NEW CONSTRUCTION AS SOON AFTER THE PAVING AS POSSIBLE. DISTURBED LANDSCAPED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
3. SAWCUT NEW PAVEMENT INTO SQUARES BETWEEN APPROXIMATELY 12' X 12' AND 15' X 15'. LENGTH SHALL NOT EXCEED 150% OF WIDTH.
4. PLACE 1/2" EXPANSION JOINT MATERIAL (FIBERBOARD) AROUND ALL STRUCTURES (MANHOLES, JUNCTION BOXES, POLES, BOLLARDS, ETC.) IN PAVEMENT; NEXT TO BUILDING, AND ALONG ADJACENT SIDEWALKS.
5. CONTRACTOR TO PROVIDE SAWCUT JOINTING PLAN TO OWNER OR OWNER'S REPRESENTATIVE PRIOR TO ANY CONCRETE PAVEMENT INSTALLATION.
6. PAVEMENT MAY BE REQUIRED TO BE REMOVED AND REPLACED IF PLACED WITHOUT AN APPROVED JOINTING PLAN.
7. LONGITUDINAL JOINTS IN DRIVE LANES SHALL BE TYPE "CD" CONTRACTION JOINTS AND HAVE STEEL. PROVIDE 36" LONG #4 BARS AT 30" CENTERS.

SECURITY FENCE NOTES:

1. SECURITY FENCE MATERIALS:
   - RAZOR TAPE: 30" DIAMETER STAINLESS STEEL BARBED TAPE 51 LOOP 5-CLIP 25 FT STAINLESS STEEL CORE WIRE.
   - CONCERTINA (DANNERT) WIRE: BARBED TAPE ASTM F 1910 430 STAINLESS STEEL, .025 INCH (.6MM) THICK X 1 INCH (25MM) WIDE PRIOR TO FORMING, DIE STAMPED TO PRODUCE 4 BARBED POINTS AT 4 INCHES (100MM) ON CENTER. TAPE COLD CLENCHED OVER STAINLESS STEEL CORE WIRE WITH MINIMUM TENSILE STRENGTH OF 220,000 PSI (1,517MPA). 1.2 INCH (30.5MM) MINIMUM LENGTH FOR EACH BARB CONCERT IN A 5-CLIP CONFIGURATION. 30 INCH (750MM) COIL.
     - EACH ROLL OF RAZOR WIRE SHALL CONSIST OF 51 CONTINUOUS LOOPS, WITH ADJACENT LOOPS CLIPPED AT 5 EQUALLY SPACED LOCATIONS AROUND THE CIRCUMFERENCE TO PROVIDE CONCERTINA EFFECT. LOOP SPACING SHALL BE 12" (+/- 2"), FOR AN ERECTED LENGTH OF 25FT (+/- 2FT.) THESE CLIPS ARE INSTALLED IN SUCH A FASHION, AS TO PREVENT THE SLIPPING OF ONE LOOP PAST ANOTHER.
   - BULL RINGS: FABRICATED FROM .065"X .375" AISI T 430 STAINLESS STEEL, THAT ARE CAPABLE OF WITHSTANDING A MINIMUM LOAD OF 200 LBS.
2. RAZOR TAPE/CONCERTINA WIRE SHALL BE INSTALLED ON THE TOP OF EACH FENCE LINE. PROVIDE QTY. (3) HORIZONTAL ROLLS OF CONCERTINA WIRE ON THE INTERIOR FACE OF EACH PERIMETER FENCE LINES AND QTY. (1) ON THE EXTERIOR FACE ON THE TOP. SECURE HORIZONTAL ROLLS AT THE BOTTOM, MIDDLE AND JUST BELOW THE TOP ROLL OF RAZOR TAPE WITH CONCERTINA BULL RINGS TO THE FENCE.
3. INSIDE CORNER INSTALLATIONS:
   - INSTALL ADDITIONAL CONCERTINA WIRE (AKA DANNERT WIRE) AT EVERY CORNER AROUND THE COMPLEX AS NOTED. PROVIDE EITHER A CONCERTINA ROLL STRAND FROM THE TOP OF THE FENCE RAN VERTICALLY TO 7'-0" ABOVE GRAD AND SECURED TO THE FENCE ITSELF WITH CONCERTINA BULL RINGS OR PROVIDE A CRISS-CROSS PATTERN OF CONCERTINA WIRE IN THE CORNERS OF THE FENCES AND SECURED TO THE FENCE ABOVE 7'-0".
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CHAINLINK GATE SCHEDULE

NUMBER	DOOR: LEAFS	DOOR: DOOR SIZE (W x H)	DETAIL	CONTROLS	REMARKS
G01	-	-	-	-	-
G02	1	3'-0" x 7'-0"	3/AC2.1	CC	NOTES: 1 & 2
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GENERAL NOTES:
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NOTE 1: COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS.
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NOTE 3: COORDINATE WITH ELECTRICAL CONTRACTOR FOR ACCESS CONTROL ROUGH-INS.
NOTE 4: COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER ROUGH-INS.

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Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

Newton, Iowa

DATE:	07/02/2026
DESIGNED:	LS
DRAWN:	KH
REVIEWED:	LS
DAS NO.:	9239.04

SHEET TITLE:
ENLARGED ARCHITECTURAL SITE PLAN & DETAILS

SHEET NUMBER:
AC1.1

PROJECT NO.: 02401959.001

SPECIAL NOTE:

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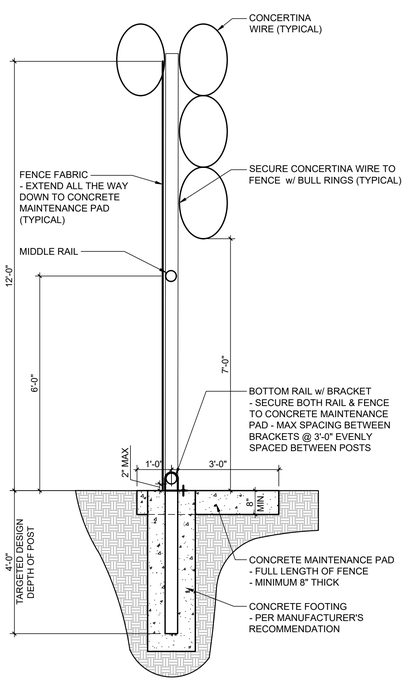
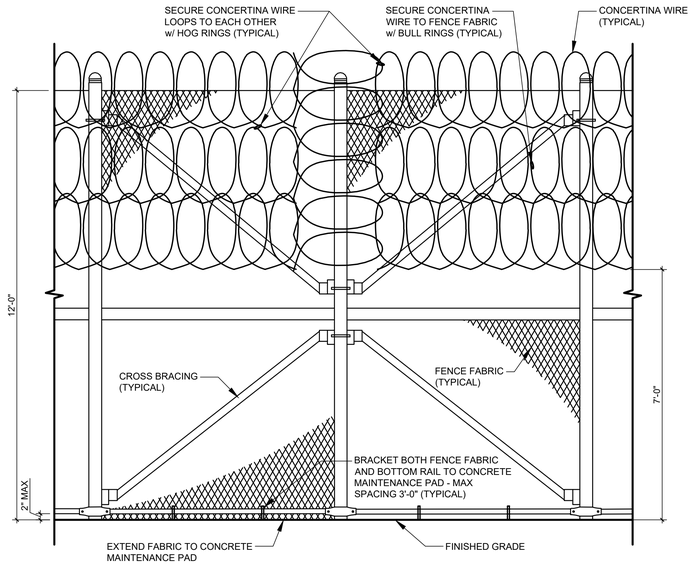
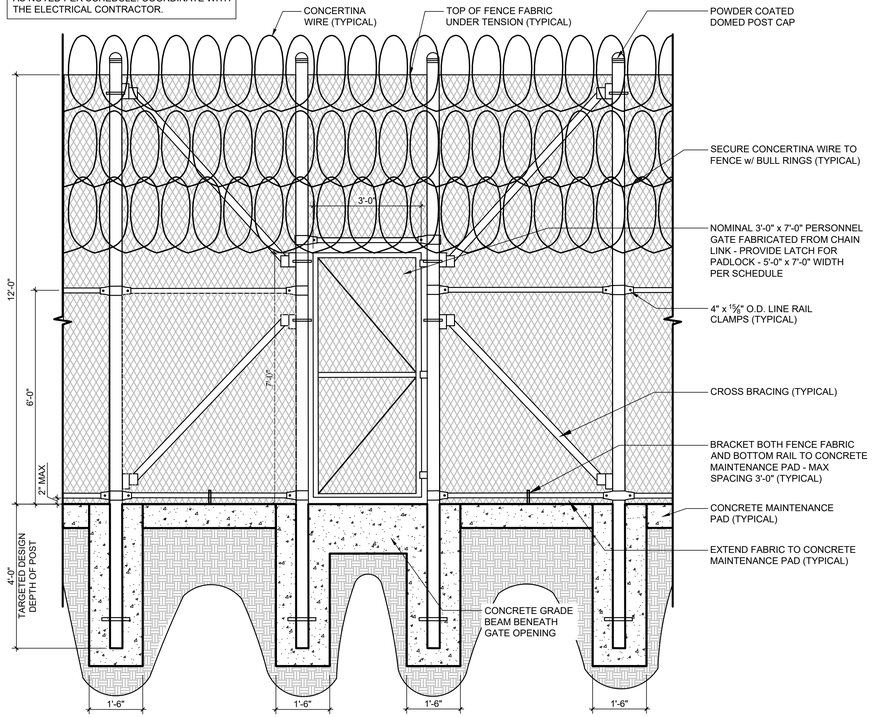


1 **TYPICAL PERIMETER FENCE SECTION**
SCALE: 1/2" = 1'-0"



2 **TYPICAL PERIMETER FENCE CORNER ELEVATION**
SCALE: 1/2" = 1'-0"

PROVIDE ELECTRICAL & DATA ROUGH-INS FOR SECURITY ACCESS CONTROL INSTALLATIONS AS NOTED PER SCHEDULE. COORDINATE WITH THE ELECTRICAL CONTRACTOR.



3 **ELEVATION - TYPICAL 3'-0" SWINGING DOOR**
SCALE: 1/2" = 1'-0"

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PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

Newton, Iowa

DATE:	07/02/2026
DESIGNED:	BR
DRAWN:	SD
REVIEWED:	LS
DAS NO.:	9239.04

SHEET TITLE:

TYPICAL PERIMETER FENCE SECTION & SWINGING GATE ELEVATIONS

SHEET NUMBER:

AC2.1

PROJECT NO.: 02401959.001

SPECIAL NOTE:

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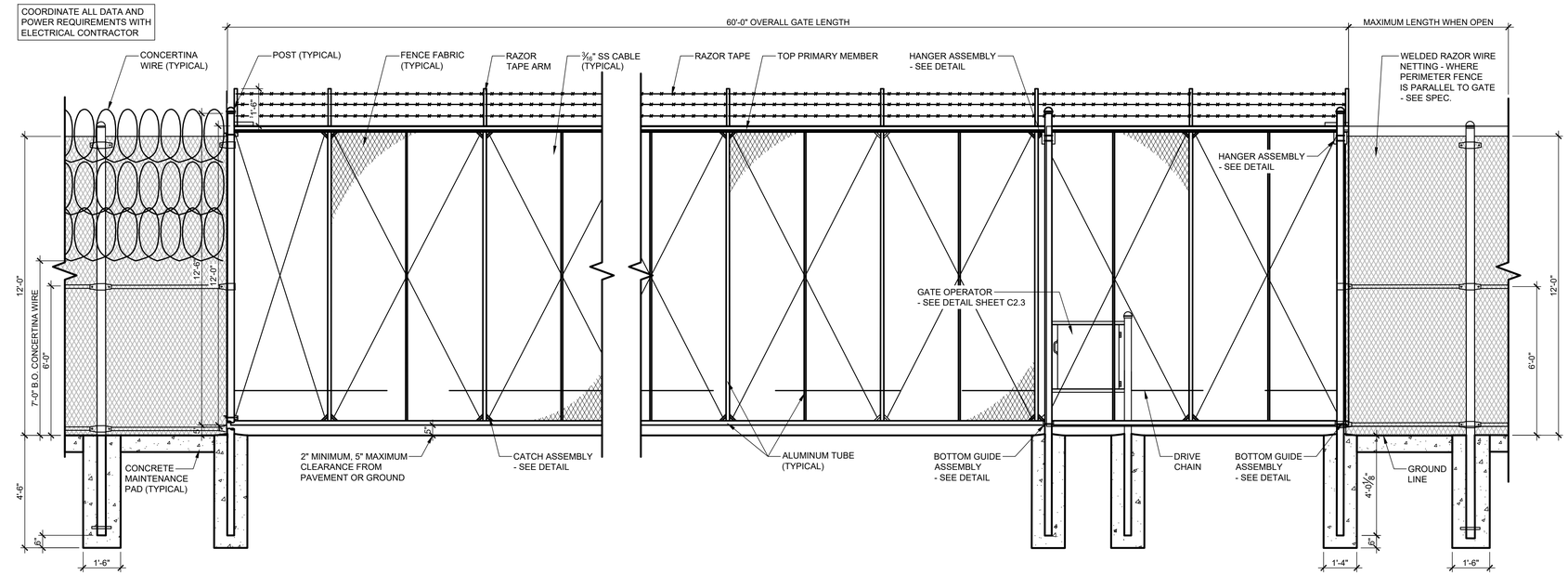
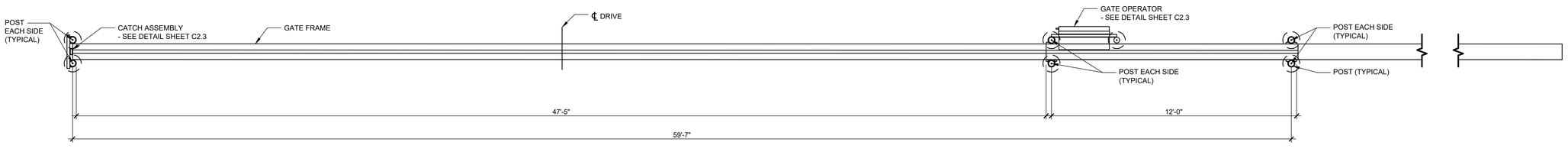
COORDINATE ALL DATA AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR



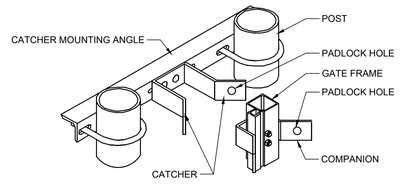
1 AUTOMATIC CANTILEVER GATE - ELEVATION

SCALE: 3/8" = 1'-0"

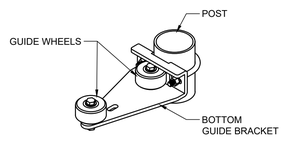


2 AUTOMATIC CANTILEVER SLIDE GATE - PLAN

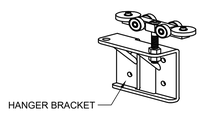
SCALE: 3/8" = 1'-0"



CATCH ASSEMBLY



BOTTOM GUIDE ASSEMBLY



GATE HANGER ASSEMBLY

3 GATE ASSEMBLY COMPONENTS

SCALE: NOT TO SCALE

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REVIEWED:	LS
DAS NO.:	9239.04

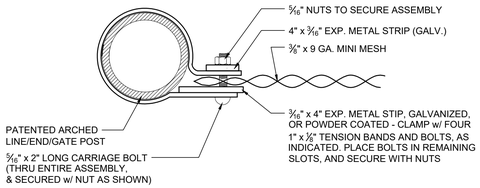
SHEET TITLE:

AUTOMATIC CANTILEVER GATE DETAILS

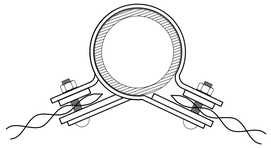
SHEET NUMBER:

AC2.2

PROJECT NO.: 02401959.001

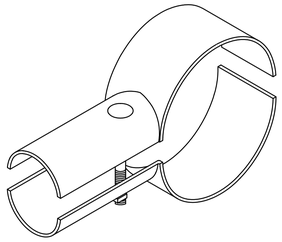


END ASSEMBLY

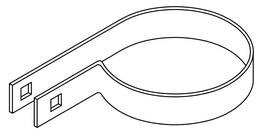


NOTE: CORNER AND END ASSEMBLIES REQUIRE SAME HARDWARE

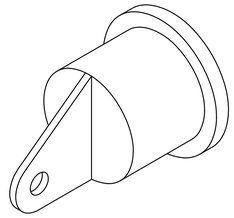
CORNER ASSEMBLY



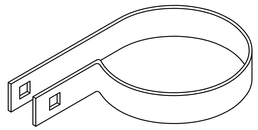
END RAIL CLAMP
POWDER COATED



TENSION BAND
POWDER COATED



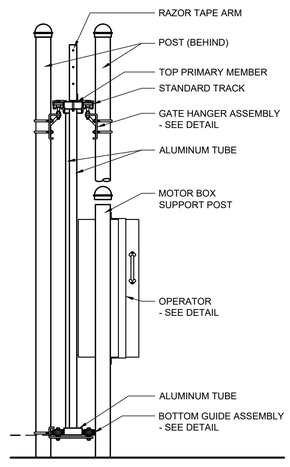
OFFSET RAIL END



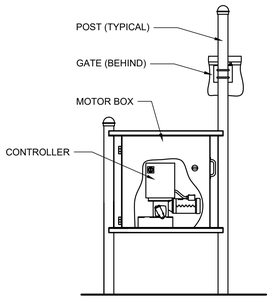
TENSION BAND

1 MISCELLANEOUS FENCE ASSEDMBLY DETAILS

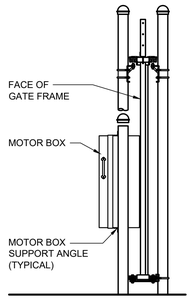
SCALE: NOT TO SCALE



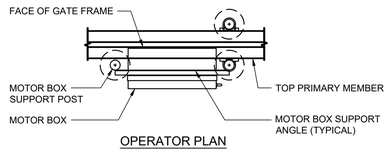
SECTION DETAIL



OPERATOR FRONT ELEVATION



OPERATOR SIDE ELEVATION



OPERATOR PLAN

2 MISCELLANEOUS CANTILEVER GATE DETAILS

SCALE: NOT TO SCALE

SPECIAL NOTE:

ALL INFORMATION PROVIDED IN THESE DOCUMENTS CONCERNING ANY WORK DIRECTLY ASSOCIATED WITH THE PROVISION OF POWER AND SECURITY ACCESS CONTROLS TO ANY GATES NOTED TO RECEIVE SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

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100% Bid Documents

PROJECT:

State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

Newton, Iowa

DATE:	07/02/2026
DESIGNED:	LS
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REVIEWED:	LS
DAS NO.:	9239.04

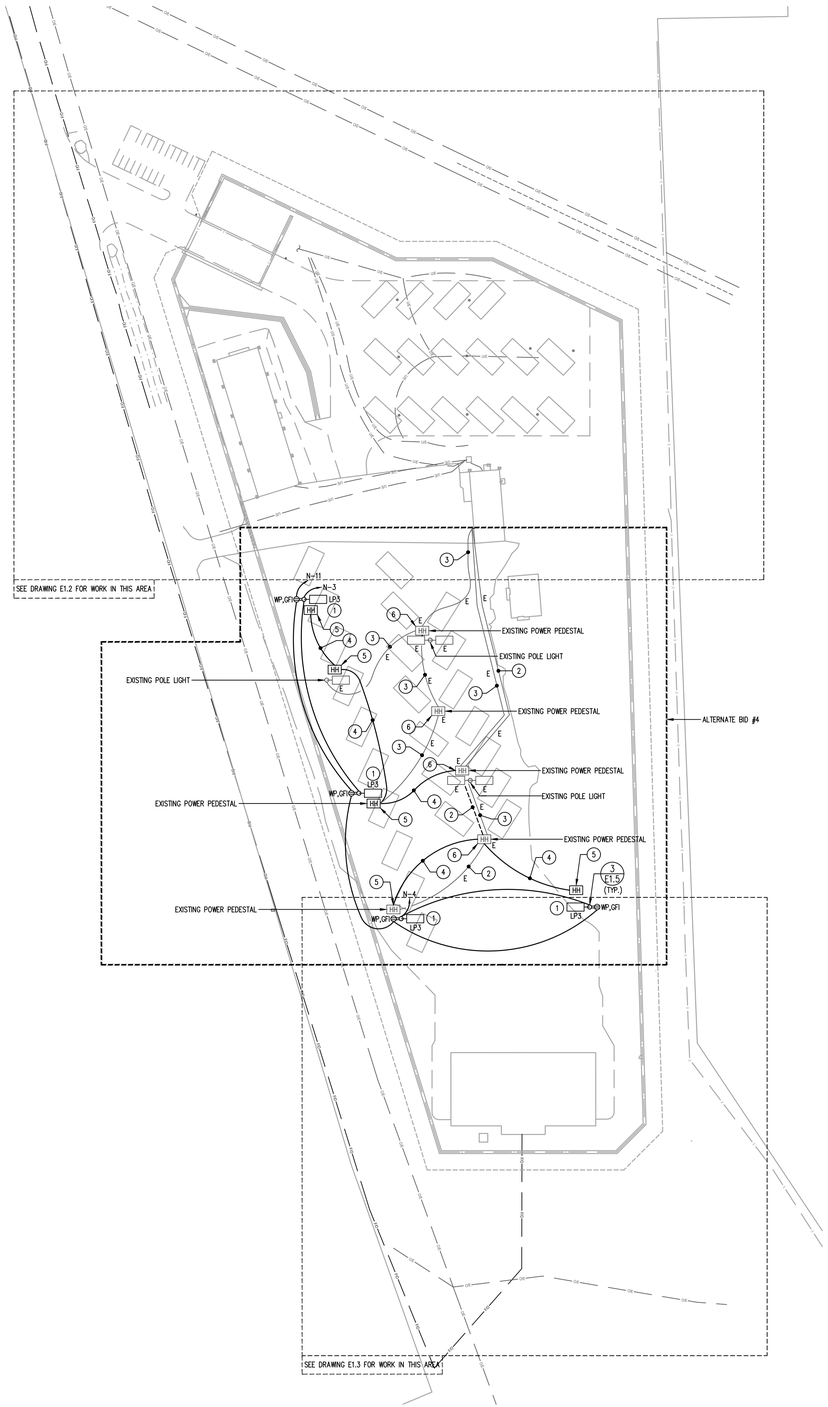
SHEET TITLE:

MISCELLANEOUS CANTILEVER GATE & FENCE ASSEMBLY DETAILS

SHEET NUMBER:

AC2.3

PROJECT NO.: 02401959.001



NORTH

OVERALL SITE PLAN - ELECTRICAL

SCALE: 1" = 100'-0"

SYMBOLS LIST:

ABBREVIATIONS:

AC	ABOVE COUNTER
ACCU-#	AIR-COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
DO	DOOR OPERATOR
DP	DOOR POSITION SWITCH
E	EXISTING DEVICE TO REMAIN
EL	ELECTRIC LOCK
EM	EMERGENCY BALLAST/DRIVER
EPO	EMERGENCY POWER OFF
ER	EXISTING DEVICE RELOCATED
GFI	GROUND FAULT INTERRUPTIBLE DEVICE
GP	GROUND FAULT PROTECTED DEVICE
HH	HAND HOLE
IG	ISOLATED GROUND DEVICE
N	NEW DEVICE IN EXISTING LOCATION
PE	PHOTO EYE
R	EXISTING DEVICE TO BE REMOVED
RR	EXISTING DEVICE TO BE REMOVED AND RELOCATED
TYP	TYPICAL
VG	VANDAL GUARD LEXAN COVER
WG	WIREGUARD
WH-#	WATER HEATER
WP	WEATHERPROOF DEVICE
#D	DATA OUTLET (# INDICATES QUANTITY)
#V	VOICE OUTLET (# INDICATES QUANTITY)

REFERENCE SYMBOLS:

- POINT OF CONNECTION/DISCONNECTION
- (#) KEYED NOTE
- (#) KITCHEN EQUIPMENT IDENTIFICATION TAG
- (X/Y) DETAIL REFERENCE (X = DETAIL NUMBER, Y = DRAWING NUMBER)

LIGHTING CONTROL SYMBOLS:

- y SWITCH — SINGLE POLE SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- 3,y SWITCH — THREE-WAY SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- 4,y SWITCH — FOUR-WAY SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- G,y SWITCH — GLOW SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- D,y SWITCH — DIMMER SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- P,y SWITCH — PILOT SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- T,y SWITCH — TIMER SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- K,y SWITCH — KEYED SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- M,y SWITCH — MOMENTARY CONTACT SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED (y = SWITCH LEG ID)
- OC# — OCCUPANCY SENSOR, +48" A.F.F. UNLESS OTHERWISE NOTED (# = OCCUPANCY SENSOR TYPE, y = SWITCH LEG ID)
- LC — LIGHTING CONTACTOR
- PC — PHOTOCELL ON ROOF
- R — RELAY

LIGHT FIXTURE SYMBOLS:

- X — POLE MOUNTED LIGHT FIXTURE (X = LIGHT FIXTURE TYPE)
- X — WALL MOUNTED EMERGENCY LIGHT FIXTURE (X = LIGHT FIXTURE TYPE) +7'-6" A.F.F. UNLESS OTHERWISE NOTED

POWER SYMBOLS:

- SURFACE MOUNTED PANEL
- RECESSED PANEL
- ELECTRIC METER
- CONDUIT CONCEALED IN CEILING AND WALL CONSTRUCTION
- ELECTRICAL CIRCUIT HOMERUN
- GROUND BAR
- DUPLEX RECEPTACLE, +18" A.F.F. UNLESS OTHERWISE NOTED
- FOURPLEX RECEPTACLE, +18" A.F.F. UNLESS OTHERWISE NOTED
- X — DUPLEX RECEPTACLE (X = DEVICE TYPE), +18" A.F.F. UNLESS OTHERWISE NOTED
- X — FOURPLEX RECEPTACLE (X = DEVICE TYPE), +18" A.F.F. UNLESS OTHERWISE NOTED
- DPY — FLOOR BOX WITH DEVICES AS INDICATED
- DUPLEX RECEPTACLE MOUNTED FLUSH IN FACE OF CEILING, DEVICE AS NOTED
- SINGLE PLUG RECEPTACLE, +18" A.F.F. UNLESS OTHERWISE NOTED
- SWITCH DUPLEX RECEPTACLE (TOP 1/2 SWITCHED), +18" A.F.F. UNLESS OTHERWISE NOTED
- SWITCHED FOURPLEX RECEPTACLE (TOP 1/2 SWITCHED), +18" A.F.F. UNLESS OTHERWISE NOTED
- G4000 RACEWAY, +24" A.F.F. UNLESS OTHERWISE NOTED
- PLUGMOLD, +18" A.F.F. UNLESS OTHERWISE NOTED
- SPECIAL ELECTRICAL CONNECTION OR DEVICE AS NOTED
- PP — POWER POLE
- ED — ELECTRIC DRYER CONNECTION, NEMA 10-30R (VERIFY) +48" A.F.F. UNLESS OTHERWISE NOTED
- RG — ELECTRIC RANGE CONNECTION, NEMA 10-50R (VERIFY) +8" A.F.F. UNLESS OTHERWISE NOTED
- RANGE HOOD CONNECTION
- ELECTRIC HAND DRYER CONNECTION, HEIGHT AS INDICATED IN SPECIFICATIONS
- MOTOR
- ATS — AUTOMATIC TRANSFER SWITCH
- MTS — MANUAL TRANSFER SWITCH
- PS — POWER SUPPLY
- ENCLOSED SAFETY SWITCH
- FS — FUSE STAT SWITCH WITH FUSE, MOUNT ADJACENT TO EQUIPMENT
- CB — ENCLOSED CIRCUIT BREAKER
- TS — TIMESWITCH
- T — BUCK-BOOST TRANSFORMER
- VFD — VARIABLE FREQUENCY DRIVE
- CD — CONTROL DAMPER
- G — PUSHBUTTON, FUNCTION AS INDICATED, +48" A.F.F. UNLESS OTHERWISE NOTED
- PUSHBUTTON, +48" A.F.F. UNLESS OTHERWISE NOTED
- B — DOORBELL, HEIGHT AS INDICATED
- T — THERMOSTAT, +48" A.F.F. UNLESS OTHERWISE NOTED
- AVST — AUTOTRANSFORMER CONTROLLER
- UD — UP/DOWN/STOP CONTROL SWITCH, +48" A.F.F. UNLESS OTHERWISE NOTED
- PB — START-STOP PUSHBUTTON WITH PILOT, +48" A.F.F. UNLESS OTHERWISE NOTED
- C — SPEED CONTROL SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT ADJACENT TO OR INSIDE UNIT ENCLOSURE

SECURITY SYSTEM SYMBOLS:

- CAMERA (CONDUIT/BOX ONLY), HEIGHT AS NOTED
- DP — DOOR POSITION SWITCH MOUNTED IN DOOR FRAME
- EL — ELECTRIC LOCK MOUNTED IN DOOR FRAME

GENERAL NOTES:

1. COORDINATE LOCATION/INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE, BUT NOT BE LIMITED TO: BUILDING/SITE STRUCTURE, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, WORK ABOVE LAY-IN CEILINGS, ETC. REFER TO ALL GENERAL, CIVIL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
2. UNDERGROUND FACILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS, AND RECORDS. LOCATIONS ARE APPROXIMATE ONLY. OTHER UNDERGROUND FACILITIES THAT ARE NOT SHOWN MAY EXIST. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. CONTACT IOWA ONE CALL A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION TO LOCATE UNDERGROUND UTILITIES. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH THE LOCAL UTILITY COMPANY AND INCLUDE ALL LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REQUIREMENTS FOR TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, METER SOCKETS, PRIMARY CABLE RACEWAY, SECONDARY SERVICE, AND METERING TRANSFORMERS.
4. ALL EXPOSED CONDUIT ABOVE GRADE SHALL BE RGS.

KEYED NOTES:

1. LP3 LIGHT FIXTURES, POLE BASES AND CIRCUITS.
2. EXISTING (2) 1" CONDUITS WITH PULL STRING FOR LOW VOLTAGE WIRING.
3. EXISTING DIRECT BURIAL POWER.
4. INSTALL (2) 1" SCHEDULE 40 PVC CONDUITS WITH PULL STRING FOR LOW VOLTAGE WIRING.
5. 24"X36" HANDHOLE FOR LOW VOLTAGE WIRING.
6. EXISTING HANDHOLES FOR POWER & LOW VOLTAGE, FIELD VERIFY.

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PROJECT:

State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

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SITE PLAN - ELECTRICAL

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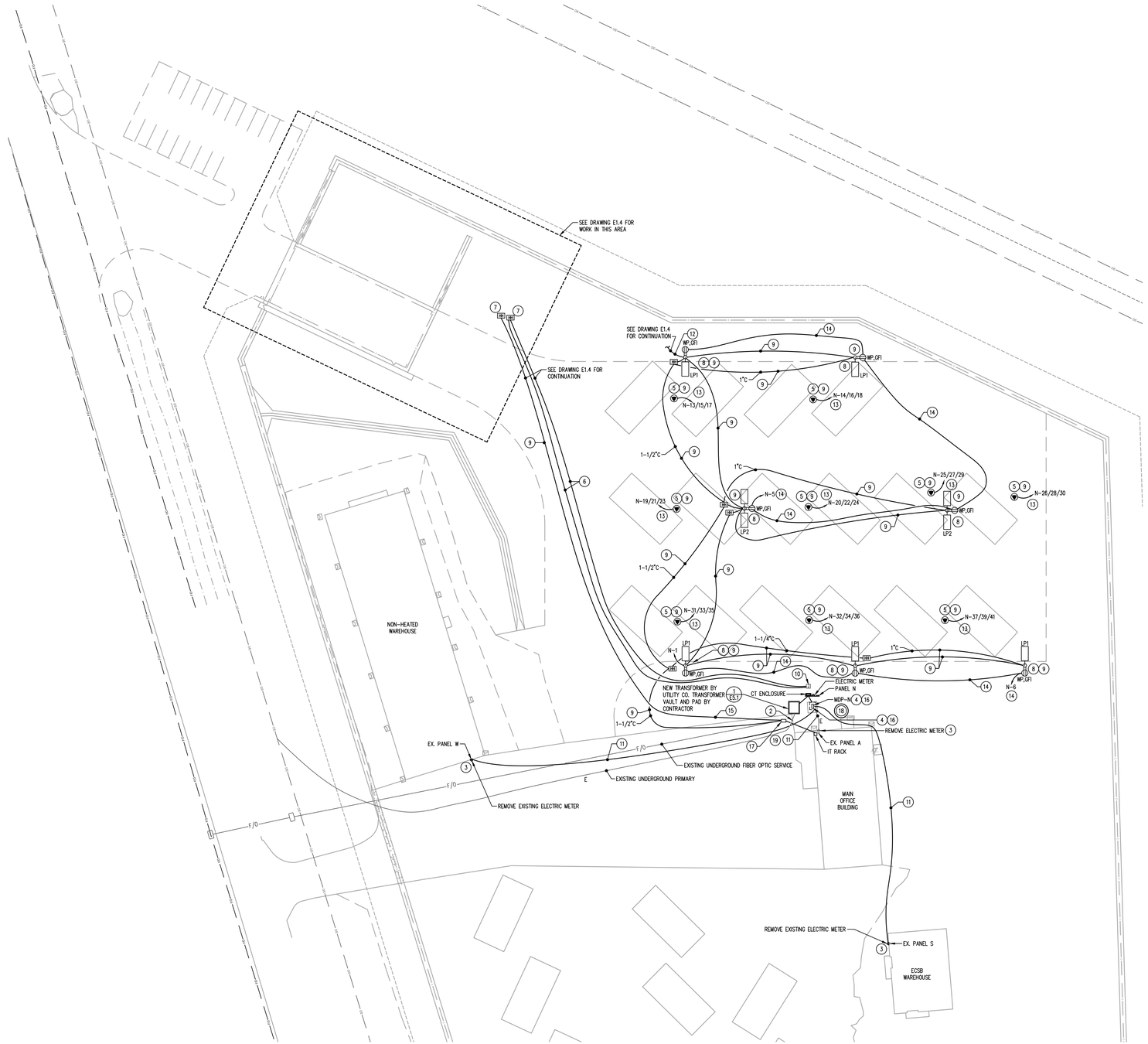

SITE PART PLAN (NORTH) - ELECTRICAL

SCALE: 1" = 40'-0"

NORTH

GENERAL NOTES:

1. UNDERGROUND FACILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS, AND RECORDS. LOCATIONS ARE APPROXIMATE ONLY. OTHER UNDERGROUND FACILITIES THAT ARE NOT SHOWN MAY EXIST. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. CONTACT IOWA ONE CALL A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION TO LOCATE UNDERGROUND UTILITIES. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

2. COORDINATE LOCATION/INSTALLATION ON MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR IT'S ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATE SHALL INCLUDE, BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, WORK ABOVE LAY-IN CEILINGS, ETC. REFER TO ALL GENERAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH THE LOCAL UTILITY COMPANY AND INCLUDE ALL LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REQUIREMENTS FOR TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, METER SOCKETS, PRIMARY CABLE RACEWAY, SECONDARY SERVICE AND METERING TRANSFORMERS.

4. ALL EXPOSED CONDUIT ABOVE GRADE SHALL BE RGS.

5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVERCURRENT PROTECTION DEVICES AS REQUIRED IN DISTRIBUTION EQUIPMENT TO COORDINATE WITH AVAILABLE FAULT CURRENT.

KEYED NOTES:

(1) EXISTING (4) 2" SCHEDULE 40 PVC CONDUITS WITH PULL STRING FOR FIBER/TELECOMM/SECURITY/CCTV WIRING INSTALLATION.

(2) RE-ROUTE EXITING PRIMARY TO NEW TRANSFORMER LOCATION. COORDINATE WITH UTILITY COMPANY.

(3) REMOVE EXISTING UTILITY METERS AND DELIVER TO UTILITY COMPANY. RECONNECT SERVICE TO BUILDING IN METER ENCLOSURE. PROVIDE NEW JUNCTION BOX COVER FOR METER ENCLOSURE WITH TAMPER RESISTANT SECURITY GRADE FASTENERS.

(4) INSTALL SECONDARY DISTRIBUTION SECTION OF MDP ON EXISTING TRANSFORMER PAD OVER TOP OF EXISTING SECONDARY CONDUCTORS FOR PANELS A, W, AND S.

(5) ROUGH-IN FOR FUTURE CONSTRUCTION POWER PEDESTAL COMPLETED UNDER PREVIOUS PROJECT WITH 6"x6"x8" PRESSURE TREATED POST. MODIFY CONDUIT ROUGH-IN AND INSTALL NEW POWER PEDESTAL, SEE DETAIL 1/E1.6. (ALTERNATE BID #3)

(6) EXISTING (2) 1" AND (2) 1-1/2" SCHEDULE 40 PVC CONDUITS FOR SALLYPORT AREA POWER WIRING. ROUTED TO JUNCTION BOX NEAR PANEL N. CONTRACTOR TO EXTEND ALL CONDUITS/CIRCUITS FROM THIS JUNCTION BOX TO PANEL N.

(7) EXISTING CONDUIT ROUGH-IN AND HANDHOLES FOR SALLYPORT POWER AND TELECOMM/SECURITY COMPLETED UNDER PREVIOUS PROJECT . SEE DRAWING E1.4 FOR ADDITIONAL INFORMATION.

(8) LP1 AND LP2 LIGHT FIXTURES TO BE INSTALLED ON EXISTING CONCRETE BASES COMPLETED UNDER PREVIOUS PROJECT. (ALTERNATE BID #2)

(9) EMPTY CONDUIT ROUGH-IN HAND HOLES, AND LIGHT POLE BASES COMPLETED UNDER PREVIOUS PROJECT.

(10) EXISTING POWER JUNCTION BOX (VERIFY LOCATION). CONTRACTOR TO EXTEND ALL POWER AND LIGHTING CIRCUITS FROM THIS BOX TO PANEL N LOCATION.

(11) EXISTING FEEDERS FROM OLD TRANSFORMER TO EXISTING BUILDING. CONTRACTORS TO MODIFY BUILDING SERVICE AS SHOWN ON RISER DIAGRAMS ON DRAWING E1.5 AND AS NOTED IN NOTE #3 ABOVE.

(12) EXISTING 1" CONDUIT STUBBED-OUT APPROXIMATELY FROM 4' LIGHT POLE, CAPPED AND STAKED FOR FUTURE EXTENSION COMPLETED UNDER PREVIOUS PROJECT.

(13) EXISTING 1-1/2" CONDUIT WITH PULL STRING TO JUNCTION BOX NEAR PANEL N LOCATION COMPLETED UNDER PREVIOUS PROJECT. ADD POWER PEDESTAL AND CIRCUIT AS NOTED. (ALTERNATE BID 3)

(14) RECEPTACLE POWER WIRING MAY BE ROUTED THROUGH EXISTING LIGHTING CIRCUIT CONDUIT. ADJUST WIRE SIZES AS REQUIRED.

(15) EXISTING CONDUITS WERE NOT EXTENDED TO EXISTING HANDHOLE SEE (NOTE #17). CONTRACTORS TO COMPLETE CONDUIT INSTALLATION FOR ALL CONDITS TO HANDHOLE.

(16) EXISTING TRANSFORMER TO BE REMOVED BY UTILITY COMPANY, PAD TO REMAIN FOR NEW MDP-N.

(17) EXISTING TELECOMMUNICATIONS HAND HOLE BOX. CONTRACTORS WILL NEED TO EXCAVATE AROUND JUNCTION BOX AND FINISH EXTENDING CONDUITS INTO AND FROM THIS BOX AS NOTED.

(18) GROUND RING, SEE DETAIL 6/E5.1.

(19) INSTALL (3) 4" SCHEDULE 40 PVC CONDUITS FOR FIBER/TELECOM/SECURITY/CCTV WIRING INSTALLATION. LEAVE PULL STRING IN EACH CONDUIT AFTER INSTALLING ALL CABLES. EXTEND INTO BUILDING TO LOCATION AS DIRECTED BY OWNER.

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PROJECT:

State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

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SITE PART PLAN-ELECTRICAL

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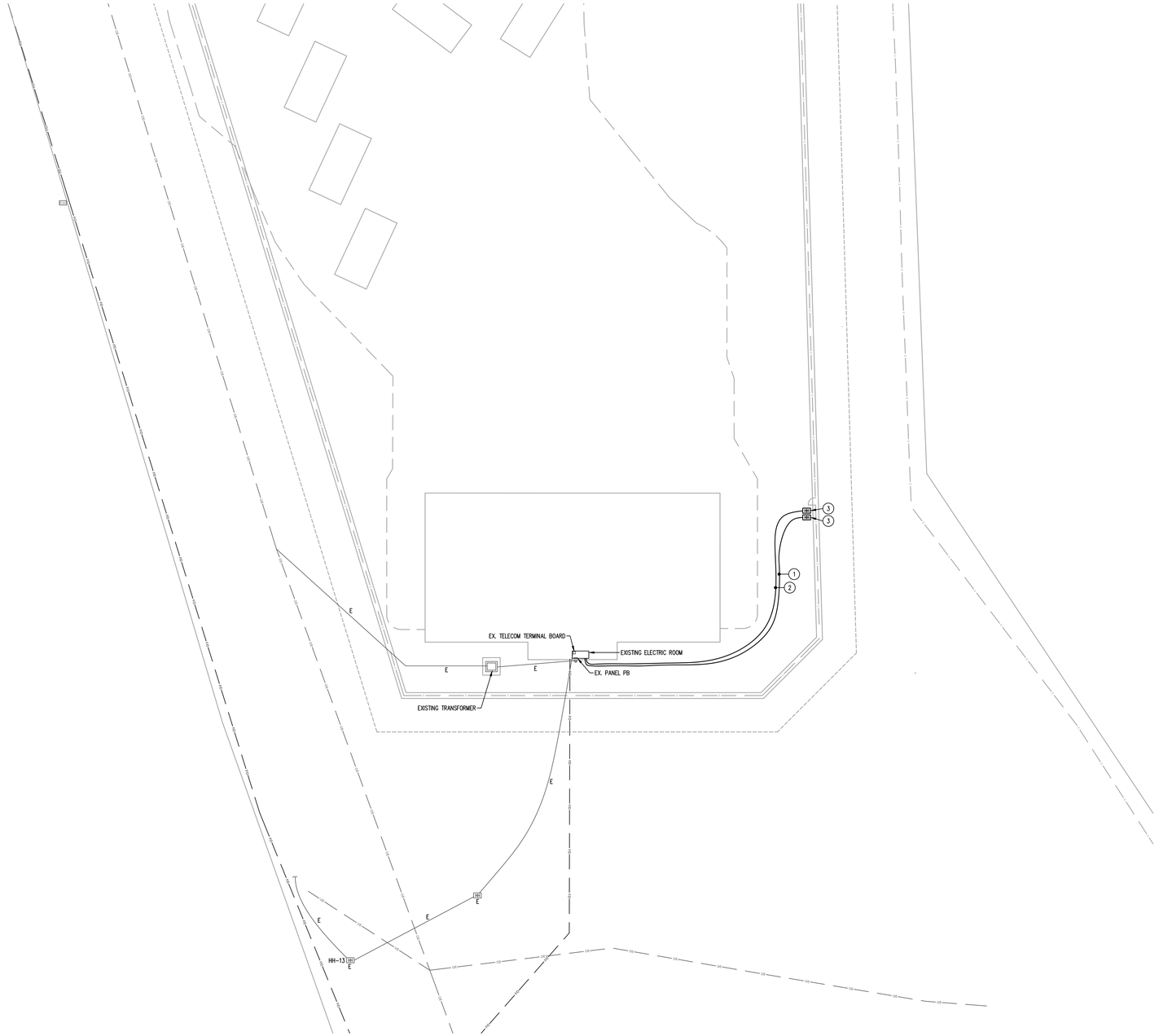

NORTH

SITE PART PLAN (SOUTH) - ELECTRICAL

SCALE: 1" = 40'-0"

GENERAL NOTES:

1. UNDERGROUND FACILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS, AND RECORDS. LOCATIONS ARE APPROXIMATE ONLY. OTHER UNDERGROUND FACILITIES THAT ARE NOT SHOWN MAY EXIST. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. CONTACT IOWA ONE CALL A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION TO LOCATE UNDERGROUND UTILITIES. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

2. COORDINATE LOCATION/INSTALLATION ON MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR IT'S ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATE SHALL INCLUDE, BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, WORK ABOVE LAY-IN CEILINGS, ETC. REFER TO ALL GENERAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH THE LOCAL UTILITY COMPANY AND INCLUDE ALL LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REQUIREMENTS FOR TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, METER SOCKETS, PRIMARY CABLE RACEWAY, SECONDARY SERVICE AND METERING TRANSFORMERS.

4. ALL EXPOSED CONDUIT ABOVE GRADE SHALL BE RGS.

5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVERCURRENT PROTECTION DEVICES AS REQUIRED IN DISTRIBUTION EQUIPMENT TO COORDINATE WITH AVAILABLE FAULT CURRENT.

KEYED NOTES:

1. EXTEND 2" CONDUIT WITH PULL STRING FROM EXISTING ELECTRIC ROOM TO NEW TELECOM/SECURITY/CCTV HAND HOLE. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION. (ALTERNATE BID #5)
2. EXTEND (2) 1" CONDUITS WITH PULL STRING FROM EXISTING PANEL PB IN EXISTING ELECTRIC ROOM TO NEW POWER HAND HOLE. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION. (ALTERNATE BID #5)
3. POWER AND TELECOM/SECURITY/CCTV HAND HOLE JUNCTION BOXES FOR FUTURE GATE CONTROL. (ALTERNATE BID #5)

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SITE PART PLAN-ELECTRICAL

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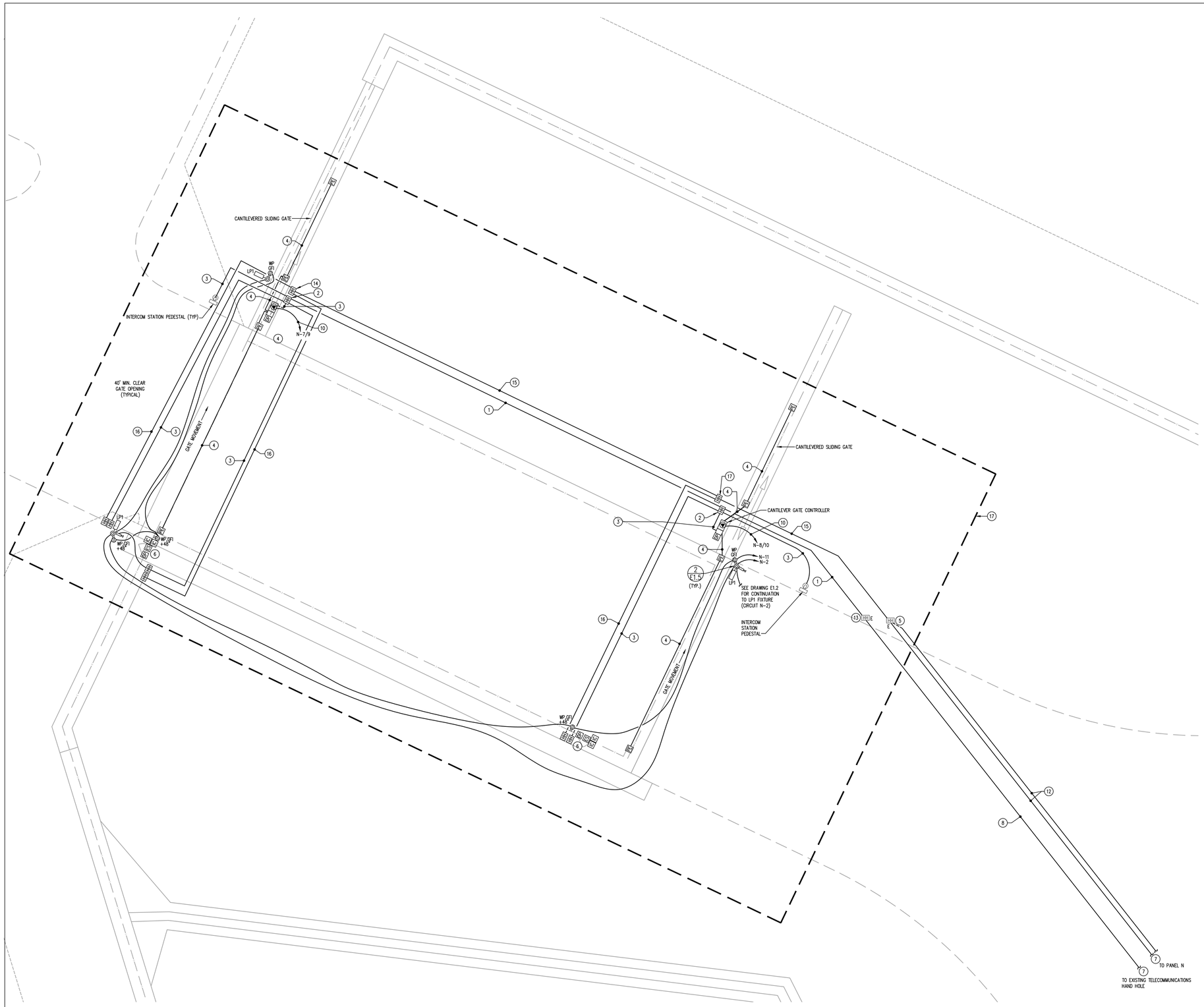

NORTH

SALLY PORT PART PLAN - ELECTRICAL

SCALE: 1" = 10'-0"

GENERAL NOTES:

1. UNDERGROUND FACILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS, AND RECORDS. LOCATIONS ARE APPROXIMATE ONLY. OTHER UNDERGROUND FACILITIES THAT ARE NOT SHOWN MAY EXIST. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. CONTACT IOWA ONE CALL A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION TO LOCATE UNDERGROUND UTILITIES. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.
2. COORDINATE LOCATION/INSTALLATION ON MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR IT'S ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATE SHALL INCLUDE, BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, WORK ABOVE LAY-IN CEILINGS, ETC. REFER TO ALL GENERAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH THE LOCAL UTILITY COMPANY AND INCLUDE ALL LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REQUIREMENTS FOR TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, METER SOCKETS, PRIMARY CABLE RACEWAY, SECONDARY SERVICE AND METERING TRANSFORMERS.
4. ALL EXPOSED CONDUIT ABOVE GRADE SHALL BE RGS.
5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVERCURRENT PROTECTION DEVICES AS REQUIRED IN DISTRIBUTION EQUIPMENT TO COORDINATE WITH AVAILABLE FAULT CURRENT.

KEYED NOTES:

1. (2) 2" SCHEDULE 40 PVC FOR FIBER/TELECOM/SECURITY/CCTV WIRING.
2. 24"x30" HANDHOLE.
3. (2) 1" SCHEDULE 40 PVC CONDUITS FOR TELECOMMUNICATIONS/CONTROL/SECURITY/CCTV WIRING.
4. 1" SCHEDULE 40 PVC CONDUIT FOR GATE SAFETY PHOTO ELECTRIC SAFETY CONTROL WIRING. COORDINATE LOCATIONS AND WIRING REQUIREMENTS WITH GATE SUPPLIER.
5. EXISTING 24"x24" HAND HOLE FOR POWER WIRING.
6. STUB-UP CONDUITS FOR GATE LOCK CONTROLS/SECURITY/CCTV AND POWER. SEE FENCE GATE SCHEMATIC LAYOUT 6/E1.5.
7. SEE DRAWING E1.2 FOR CONTINUATION AND ADDITIONAL INFORMATION.
8. (4) EXISTING 2" CONDUITS TO SOUTH GATE WITH HAND HOLES AT MAXIMUM 300' INTERVALS. (24"x30" HAND HOLES).
9. EXTEND CONDUITS TO EXISTING DATA EQUIPMENT IN EXISTING BUILDING.
10. ROUTE CIRCUIT TO PANEL N VIA HAND HOLES, SEE NOTES 2 & 5.
11. NOT USED.
12. (2) EXISTING 1" AND (2) EXISTING 1-1/2" SCHEDULE 40 PVC CONDUITS WITH PULL STRING FOR SALLYPORT POWER WIRING. ROUTE FROM HANDHOLE TO PANEL N UNDER THIS CONTRACT.
13. EXISTING 24"x30" HAND HOLE FOR TELECOMMUNICATIONS/SECURITY/CCTV/ CONTROL WIRING.
14. 24" X 24" HANDHOLE FOR POWER WIRING.
15. (2) 1-1/2" SCHEDULE 40 PVC CONDUITS FOR POWER WIRING.
16. (2) 1" SCHEDULE 40 PVC CONDUITS FOR POWER WIRING.
17. ALL WIRING, EQUIPMENT, ETC TO BE REMOVED UNDER ALTERNATE BID #6. ALL LIGHT POLE BASES, CONDUITS, HAND HOLES, AND JUNCTION BOXES BELOW GRADE SHALL REMAIN AS BASE BID.

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ISSUE:

#	DATE:	DESCRIPTION:

100% CONSTRUCTION SET
07/02/2026

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Perimeter Fence

DATE:	07/02/2026
DAS#:	923904-02
DESIGNED:	CP
DRAWN:	MVN/CG
REVIEWED:	CP
FIELD BOOK NO.:	N/A

SHEET TITLE:

SALLY PORT PART PLAN - ELECTRICAL

SHEET NUMBER:

E1.4

PROJECT NO.: 9239.04

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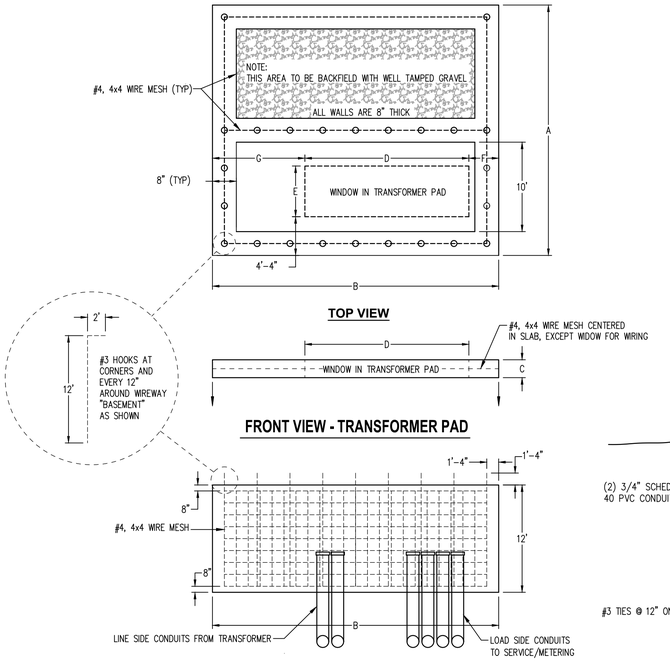
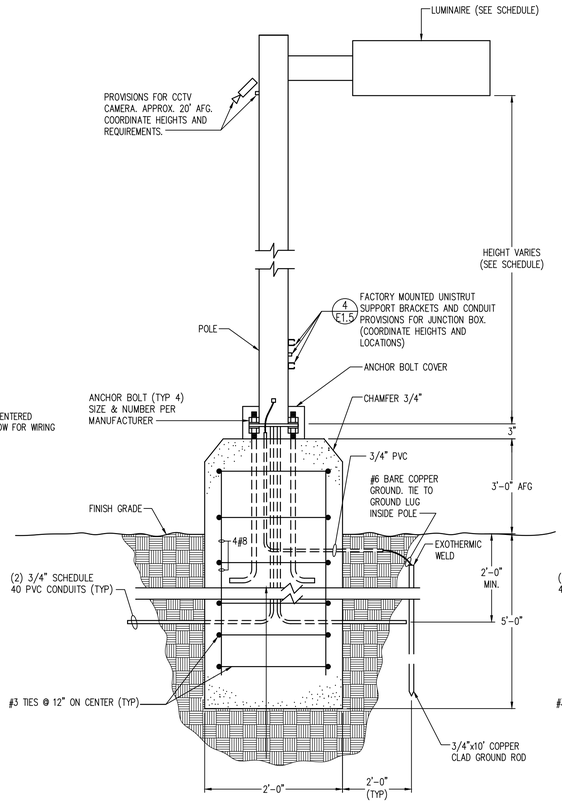
Twin Rivers Project #: 24038.02



	A	B	C	D	E	F	G
75–500 kVA	84"	96"	6"	55"	17"	10"	31"
750–2500 kVA	105"	108"	8"	60"	17"	14"	34"

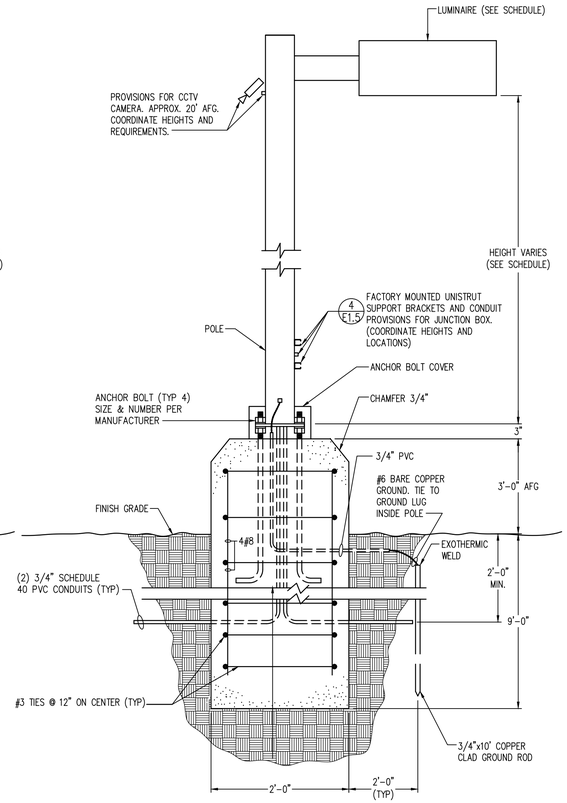
1 E1.5 **TRANSFORMER PAD DETAL**

NOT TO SCALE



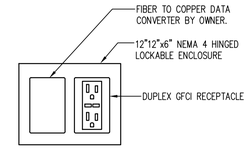
2 E1.5 **POLE MOUNTED SITE LIGHT DETAIL**

NOT TO SCALE



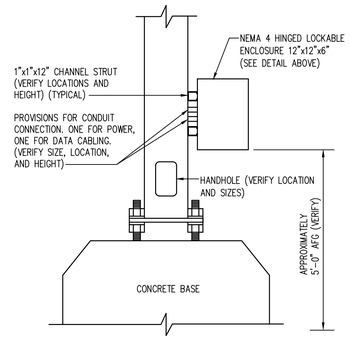
3 E1.5 **POLE MOUNTED SITE LIGHT DETAIL**

NOT TO SCALE



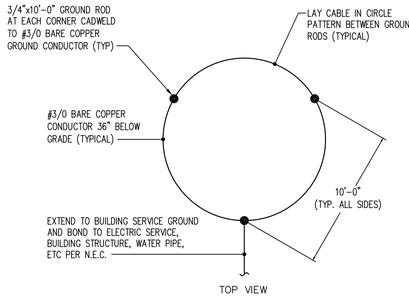
ENCLOSURE DETAIL

NOT TO SCALE



4 E1.5 **POLE MOUNTED JUNCTION BOX DETAIL**

NOT TO SCALE



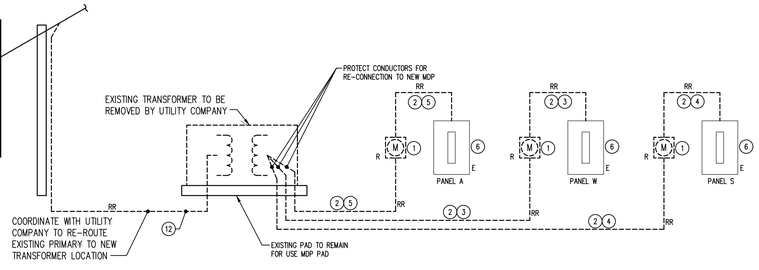
5 E1.5 **GROUND RING**

NOT TO SCALE

FEEDER SCHEDULE		
TAG	CONDUCTORS	CONDUIT
A	(4) #3 & (1) #8 (GND) THWN	1-1/4"
B	(4) #1 & (1) #6 (GND) THWN	1-1/2"
C	(4) #1/0 & (1) #6 (GND)THWN	2"
D	(4) #3/0 & (1) #6 (GND)THWN	2-1/2"
E	(4) #4/0 & (1) #4 (GND) THWN	2-1/2"
F	(4) 500 kcmil & (1) #1/0 (GND) THWN	4"
G	(2) SETS OF: (4) 500 kcmil & (1) #1/0 (GND)THWN	(2) 4"
H	(5) SETS OF: (4) 400 kcmil & (1) #4/0 (GND) THWN	(2) 4"

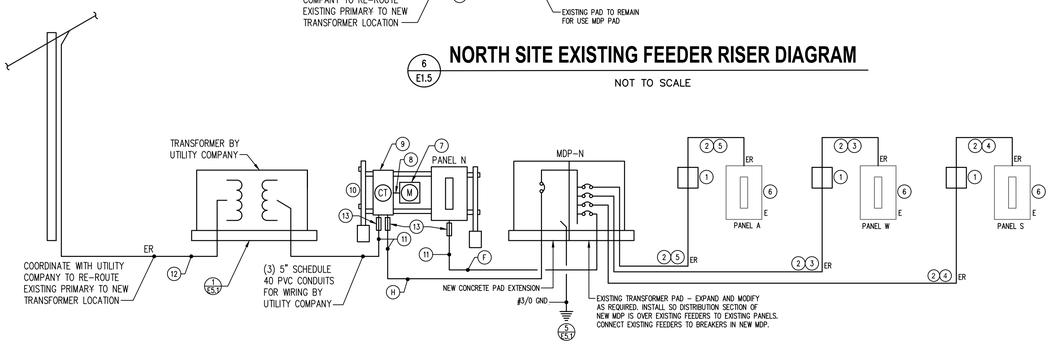
KEYED NOTES:

1. REMOVE EXISTING UTILITY METERS AND DELIVER TO UTILITY COMPANY. RECONNECT SERVICE TO BUILDING IN METER ENCLOSURE. PROVIDE NEW JUNCTION BOX COVER FOR METER ENCLOSURE WITH TAMPER RESISTANT SECURITY GRADE FASTENERS.
2. PULL OUT EXISTING WIRING AND RE-PULL BACK INTO EXISTING CONDUIT WITH NEW GROUND CONDUCTOR. EXISTING CONDUCTOR AND CONDUIT SIZES ARE ESTIMATED, FIELD VERIFY.
3. EXISTING (4) #350 AL IN EXISTING 3" CONDUIT, ADD NEW GROUND CONDUCTOR #1/0 AL WHEN RE-INSTALLING.
4. EXISTING (4) #350 AL IN EXISTING 4" CONDUIT, ADD NEW GROUND CONDUCTOR #1/0 AL WHEN RE-INSTALLING.
5. EXISTING #4/0 AL IN EXISTING 3" CONDUIT, ADD NEW GROUND CONDUCTOR #1/0 AL WHEN RE-INSTALLING.
6. CONTRACTOR SHALL VERIFY ALL CIRCUIT NEUTRALS ARE ON NEUTRAL BUS AND ALL GROUNDS ARE ON GROUND BUS AND CORRECT AS REQUIRED. REMOVE NEUTRAL TO GROUND BOND. BOND NEW GROUND WITH EXISTING GROUND PER NEC.
7. METER ENCLOSURE PER UTILITY COMPANY REQUIREMENTS BY CONTRACTOR.
8. 1" RGS CONDUIT BETWEEN CT ENCLOSURE AND METER. METER WIRING BY UTILITY COMPANY.
9. CT ENCLOSURE PER UTILITY COMPANY REQUIREMENTS BY CONTRACTOR.
10. PROVIDE UNISTRUT RACK SUITABLE FOR INSTALLING CT ENCLOSURE, METER, AND PANEL N. PROVIDE 36" DEEP CONCRETE BASES TO SUPPORT RACK.
11. ABOVE GRADE CONDUIT TO BE RGS. TRANSITION FROM PVC TO RGS BELOW GRADE. PROVIDE PROTECTIVE STEEL CONDUIT PER SPECIFICATIONS.
12. REMOVE AND RE-ROUTE EXISTING PRIMARY WIRING BY UTILITY COMPANY, CONTRACTOR TO PROVIDE CONDUIT AT NEW TRANSFORMER AS DIRECTED BY UTILITY COMPANY.
13. EXPANSION FITTING.



6 E1.5 **NORTH SITE EXISTING FEEDER RISER DIAGRAM**

NOT TO SCALE



7 E1.5 **NORTH SITE FEEDER RISER DIAGRAM**

NOT TO SCALE

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ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:

State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

DATE:	07/02/2026
DAS#:	9239.04
DESIGNED:	CP
DRAWN:	MVN/CG
REVIEWED:	CP
FIELD BOOK NO.:	N/A

SHEET TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:

E1.5

PROJECT NO.: 02401959.001

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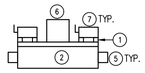
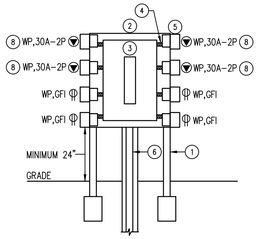
Twin Rivers Project #: 24038.02



TOP VIEW

NOT TO SCALE



FRONT VIEW

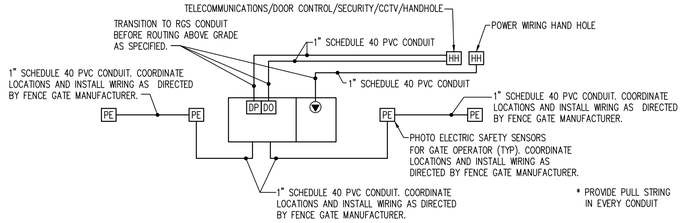
NOT TO SCALE

KEYED NOTES:

1. PROVIDE UNISTRUT RACK SUITABLE FOR INSTALLING ENCLOSURE. PROVIDE 36" DEEP CONCRETE BASES TO SUPPORT RACK.
2. PROVIDE MINIMUM 36" X 36" X 8" NEMA 4 JUNCTION BOX WITH HINGED, LOCKABLE COVER. ADJUST ENCLOSURE SIZE AS REQUIRED.
3. PROVIDE 125A, 24 SPACE LOAD CENTER WITH CIRCUIT BREAKERS AS REQUIRED. SEE POWER PEDESTAL LOAD CENTER SCHEDULE.
4. PROVIDE FLEXIBLE CONDUIT, SEALTIGHT CONDUIT, OR SHEATHED MC CABLE CONNECTION BETWEEN LOAD CENTER AND RECEPTACLE BOX WITHIN JUNCTION BOX AND TO DISCONNECT SWITCHES. ANCHOR CONDUIT CONNECTION TO ENCLOSURE PER NEC.
5. MOUNT DEVICE BOXES ON INSIDE OF ENCLSOURE WITH DESIGNATED RECEPTACLE AND MOUNT IN-USE STYLE WEATHER PROOF COVER ON OUTSIDE OF ENCLOSURE. RECEPTACLES ARE TO BE INSTALLED IN BOX THAT IS FLUSH WITH ENCLOSURE SO ONLY WEATHER PROOF COVER IS ON EXTERIOR. CONTRACTOR TO SEAL PENETRATIONS WATER TIGHT.
6. EXISTING 6X6 POST WITH EXISTING 2" CONDUIT INSTALLED UNDER PREVIOUS PROJECT.
7. 30A-2P, NEMA 3R DISCONNECT SWITCH. INSTALL CONDUIT AND WIRE CONNECTION FROM LOAD CENTER.
8. NEMA 6-30 RECEPTACLE (VERIFY WITH OWNER).

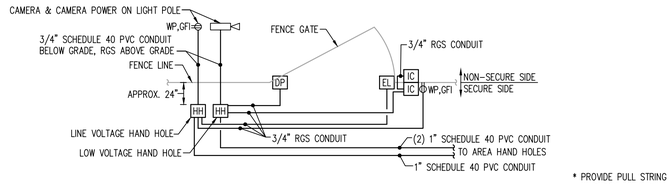
1 E1.6 POWER PEDESTAL DETAIL (ALTERNATE BID 3)

NOT TO SCALE



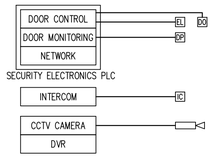
2 E1.6 CANTILEVER GRATE OPERATOR SCHEMATIC LAYOUT *

NOT TO SCALE



3 E1.6 FENCE GATE SCHEMATIC LAYOUT *

NOT TO SCALE



4 E1.6 TELECOMMUINICATIONS/SECURITY ELECTRONICS/ CCTV SCHEMATIC RISER DIAGRAM (BY OWNER)

NOT TO SCALE

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ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:

State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

DATE:	07/02/2026
DAS#:	9239.04
DESIGNED:	CP
DRAWN:	MVN/CG
REVIEWED:	CP
FIELD BOOK NO.:	N/A

SHEET TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:

E1.6

PROJECT NO.: 02401959.001

LIGHT FIXTURE SCHEDULE

TYPE DESIGNATION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE	NOMINAL DIMENSIONS	LAMP TYPE	FIXTURE LOAD (WATTS)	INTIAL LUMEN OUTPUT	MINIMUM CRI RATING	CCT	DIMMING	FIXTURE VOLTAGE	DESCRIPTION	APPROVED EQUALS
LP1 (ALT. BID #2)	LITHONIA	RSX1 LED P3 40K MVOLT RPA DBLBXD DLL127F 1.5JU	POLE	21.8"Lx13.3"Wx7.2"H	LED	109	14,206	70+	4,000	N/A	120-277	LED POLE MOUNTED LIGHT FIXTURE. DIE-CAST ALUMINUM HOUSING. LED OPTICAL SYSTEM WITH TYPE T4M DISTRIBUTION. DIE-CAST ALUMINUM INTEGRAL THERMAL MANAGEMENT SYSTEM. FADE AND ABRASION RESISTANT BLACK POLYESTER POWDER COAT FINISH. PROVIDE 25' ROUND STRAIGHT STEEL POLE WITH MATCHING FINISH. POLE DIMENSIONS TO BE 25'H x 4.5"DIA x 0.120"THICK. UL WET LOCATION LISTED. IP66 RATED. INTEGRAL PHOTOCELL FOR ON/OFF CONTROL. PROVIDE PROVISIONS FOR CAMERA. RECEPTACLE, CONDUIT AND CHANEL STRUT FACTORY MOUNTED AS SHOWN ON DRAWING DETAILS.	KIM BEACON SERIES
LP2 (ALT. BID #2)	LITHONIA	(TWO) RSX1 LED P3 40K MVOLT RPA DBLBXD DLL127F 1.5JU	POLE	(TWO) 21.8"Lx13.3"Wx7.2"H	LED	218 (109 EA)	28,412 (14,206 EA)	70+	4,000	N/A	120-277	TWO LED POLE MOUNTED LIGHT FIXTURE. DIE-CAST ALUMINUM HOUSING. LED OPTICAL SYSTEM WITH TYPE T4M DISTRIBUTION. DIE-CAST ALUMINUM INTEGRAL THERMAL MANAGEMENT SYSTEM. FADE AND ABRASION RESISTANT BLACK POLYESTER POWDER COAT FINISH. PROVIDE 25' ROUND STRAIGHT STEEL POLE WITH MATCHING FINISH. POLE DIMENSIONS TO BE 25'H x 4.5"DIA x 0.120"THICK. UL WET LOCATION LISTED. IP66 RATED. INTEGRAL PHOTOCELL FOR ON/OFF CONTROL. PROVIDE PROVISIONS FOR CAMERA. RECEPTACLE, CONDUIT AND CHANEL STRUT FACTORY MOUNTED AS SHOWN ON DRAWING DETAILS.	KIM BEACON SERIES
LP3 (ALT. BID #4)	VISIONAIRE LIGHTING	BLX-II-4-T4L-70L-5K-UNV-KM-BZ	POLE	37"Lx17"Wx5"H	LED	541	57,517	70+	5,000	N/A	120-277	LED POLE MOUNTED LIGHT FIXTURE. DIE-CAST ALUMINUM HOUSING. LED OPTICAL SYSTEM WITH TYPE T4L DISTRIBUTION. DIE-CAST ALUMINUM INTEGRAL THERMAL MANAGEMENT SYSTEM. FADE AND ABRASION RESISTANT DARK BRONZE POLYESTER POWDER COAT FINISH. PROVIDE 39' ROUND TAPERED STEEL POLE WITH MATCHING FINISH. POLE DIMENSIONS TO BE 39'H x 9.13DIA x 7 Ga.THICK. UL WET LOCATION LISTED. IP66 RATED. INTEGRAL PHOTOCELL FOR ON/OFF CONTROL. PROVIDE PROVISIONS FOR CAMERA. RECEPTACLE, CONDUIT AND CHANEL STRUT FACTORY MOUNTED AS SHOWN ON DRAWING DETAILS.	LITHONIA RSX4 SERIES KIM BEACON SERIES

BRANCH CIRCUIT SCHEDULE

BREAKER SIZE	WIRE SIZE	GROUND	CONDUITS
20A	#12 THWN	#12 THWN	1/2"
25A	#10 THWN	#10 THWN	3/4"
30A	#10 THWN	#10 THWN	3/4"
35A	#10 THWN	#10 THWN	3/4"
40A	#8 THWN	#10 THWN	3/4"
45A	#8 THWN	#10 THWN	3/4"
50A	#8 THWN	#10 THWN	3/4"
60A	#6 THWN	#10 THWN	1"
70A	#4 THWN	#8 THWN	1-1/4"
80A	#4 THWN	#8 THWN	1-1/4"
90A	#3 THWN	#8 THWN	1-1/4"

NOTES:
1. BRANCH CIRCUIT WIRE AND CONDUIT SIZES ARE FOR SINGLE CIRCUIT PER CONDUIT APPLICATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST WIRE AND CONDUIT SIZES TO COMPLY WITH WIRE DERATING AND CONDUIT FILL REQUIREMENTS WHERE MORE THAN ONE CIRCUIT IS INSTALLED IN A CONDUIT.
2. BRANCH CIRCUIT WIRE SIZES ARE FOR 120V CIRCUITS LESS THAN 100' IN LENGTH. INCREASE WIRE SIZE BY ONE NOMINAL WIRE SIZE FOR EACH CIRCUIT LENGTH GREATER THAN 100'.
3. BRANCH CIRCUIT WIRE SIZES FOR ALL EXTERIOR UNDERGROUND CIRCUITS SHALL BE MINIMUM #8 THWN IN 1" CONDUIT.
4. ALL BRANCH CIRCUITS SHALL BE ADJUSTED FOR VOLTAGE DROP.

PANEL N

LOAD DESCRIPTION	LOAD (KVA)	TY	BREAKER AMP	BREAKER P	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	BREAKER AMP	BREAKER P	TY	LOAD (KVA)	LOAD DESCRIPTION
LIGHTING	0.918	L	20	1	1	1.22			2	20	1	L	0.306	LIGHTING
LIGHTING	1.082	L	20	1	3		2.16		4	20	1	L	1.082	LIGHTING
RECEPTACLES	1.000	R	20	1	5			2.00	6	20	1	R	1.000	RECEPTACLES
SALLYPORT FENCE GATE	1.600	M	20	2	7	3.20			8	20	2	M	1.600	SALLYPORT FENCE GATE
-	1.600	M	-	-	9		3.20		10	-	-	M	1.600	-
RECEPTACLES	0.900	R	20	1	11			0.90	12	20	1	-	-	SPARE
CONSTRUCTION PEDESTAL	7.000	O	125	3	13	14.00			14	125	3	O	7.000	CONSTRUCTION PEDESTAL
-	7.000	O	-	-	15		14.00		16	-	-	O	7.000	-
-	7.000	O	-	-	17			14.00	18	-	-	O	7.000	-
CONSTRUCTION PEDESTAL	7.000	O	125	3	19	14.00			20	125	3	O	7.000	CONSTRUCTION PEDESTAL
-	7.000	O	-	-	21		14.00		22	-	-	O	7.000	-
-	7.000	O	-	-	23			14.00	24	-	-	O	7.000	-
CONSTRUCTION PEDESTAL	7.000	O	125	3	25	14.00			26	125	3	O	7.000	CONSTRUCTION PEDESTAL
-	7.000	O	-	-	27		14.00		28	-	-	O	7.000	-
-	7.000	O	-	-	29			14.00	30	-	-	O	7.000	-
CONSTRUCTION PEDESTAL	7.000	O	125	3	31	14.00			32	125	3	O	7.000	CONSTRUCTION PEDESTAL
-	7.000	O	-	-	33		14.00		34	-	-	O	7.000	-
-	7.000	O	-	-	35			14.00	36	-	-	O	7.000	-
CONSTRUCTION PEDESTAL	7.000	O	125	3	37	7.00			38	125	3	-	-	FUTURE CONSTRUCTION PEDESTAL
-	7.000	O	-	-	39		7.00		40	-	-	-	-	-
-	7.000	O	-	-	41			7.00	42	-	-	-	-	-
FUTURE CONSTRUCTION PEDESTAL	-	-	125	3	43	0.00			44	125	3	-	-	SPARE
-	-	-	-	-	45		0.00		46	-	-	-	-	-
-	-	-	-	-	47			0.00	48	-	-	-	-	-
SPARE	-	-	20	1	49	0.00			50	20	1	-	-	SPARE
SPARE	-	-	20	1	51		0.00		52	20	1	-	-	SPARE
SPARE	-	-	20	1	53			0.00	54	20	1	-	-	SPARE
SPACE	-	-	-	-	55	0.00			56	-	-	-	-	SPACE
SPACE	-	-	-	-	57		0.00		58	-	-	-	-	SPACE
SPACE	-	-	-	-	59			0.00	60	-	-	-	-	SPACE

Voltage	120/208	TOTAL LOAD BY PHASE	
Phase	3		
Wiring	4	A PHASE CONNECTED LOAD	67.42
Bus Rating	400A	B PHASE CONNECTED LOAD	68.36
Main Lug Rating	400A	C PHASE CONNECTED LOAD	65.90
Demand Lighting	3.39 KVA @ 100% 3.39		
Demand Recep 10KVA @ 100%+	2.90 KVA @ 50% 2.90	Total Demand (KVA)	107.19
Demand Motor	6.40 KVA @ 100% 6.40	Total Demand (AMPS)	297.52
Demand Appliances	0.00 KVA @ 100% 0.00		
Non-Coincidental Loads	0.00 KVA @ 0% 0.00	Total Connected Load (KVA)	201.69
Other	189.00 KVA @ 50% 94.50	Total Connected Load (AMPS)	559.83

NOTES:
* CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER
** PROVIDE LOCK-ON DEVICE
** SHUNT TRIP CIRCUIT BREAKER
$ PROVIDE ISOLATED GROUND AS REQUIRED

MDP-N

LOAD DESCRIPTION	CONNECTED KVA	CONNECTED AMP	DEMAND KVA	DEMAND AMP	LOAD TYPE	CIRCUIT BREAKER AMP	CIRCUIT BREAKER POLE	CIRCUIT BREAKER A.I.C.	FEEDER TO LOAD WIRE SIZE	FEEDER TO LOAD CONDUIT SIZE
EXISTING PANEL A *	36.80	103.00	29.50	82.00		400	3	30K	REFER TO RISER DIAGRAM	
EXISTING PANEL W	11.80	33.00	11.80	33.00		200	3	30K		
EXISTING PANEL S	37.80	105.00	37.80	104.00		200	3	30K		
PANEL N	201.69	559.83	107.19	297.52		400	3	30K		
SPARE						400	3	30K		
SPACE										
SPACE										

Volts/Phase/Wire Connection	120/208V-3-4W		
Bus Rating	1600A		
Main Breaker Rating	1600A		
Short Circuit Current Rating	65,000 A.I.C.		
Total Connected Load	288.19 KVA	799.93 AMP	
Total Demand Load	186.29 KVA	517.08 AMP	

* CONNECTED LOADS ARE ESTIMATED.

POWER PEDESTAL LOAD CENTER (TYPICAL OF 9)

LOAD DESCRIPTION	LOAD (KVA)	TY	BREAKER AMP	BREAKER P	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	BREAKER AMP	BREAKER P	TY	LOAD (KVA)	LOAD DESCRIPTION
HOUSE HEATER	2.500	O	30*	2	1	5.00			2	30*	2	O	2.500	HOUSE HEATER
-	2.500	O	-	-	3		5.00		4	-	-	O	2.500	-
HOUSE HEATER	2.500	O	30*	2	5			5.00	6	30*	2	O	2.500	HOUSE HEATER
-	2.500	O	-	-	7	5.00			8	-	-	O	2.500	-
HOUSE POWER	2.500	N	30	2	9		5.00		10	30	2	N	2.500	HOUSE POWER
-	2.500	N	-	-	11			5.00	12	-	-	N	2.500	-
RECEPTACLE	1.500	R	20	1	13	3.00			14	20	1	R	1.500	RECEPTACLE
RECEPTACLE	1.500	R	20	1	15		3.00		16	20	1	R	1.500	RECEPTACLE
SPARE	-	-	20	1	17			0.00	18	20	1	-	-	SPARE
SPARE	-	-	20	1	19	0.00			20	20	1	-	-	SPARE
SPACE	-	-	-	-	21		0.00		22	-	-	-	-	SPACE
SPACE	-	-	-	-	23			0.00	24	-	-	-	-	SPACE
SPACE	-	-	-	-	25	0.00			26	-	-	-	-	SPACE
SPACE	-	-	-	-	27		0.00		28	-	-	-	-	SPACE
SPACE	-	-	-	-	29			0.00	30	-	-	-	-	SPACE

Voltage	120/208	TOTAL LOAD BY PHASE	
Phase	3		
Wiring	4	A PHASE CONNECTED LOAD	13.00
Bus Rating	125A	B PHASE CONNECTED LOAD	13.00
Main Lug Rating	125A	C PHASE CONNECTED LOAD	10.00
Demand Lighting	0.00 KVA @ 100% 0.00		
Demand Recep 10KVA @ 100%+	6.00 KVA @ 50% 6.00	Total Demand (KVA)	26.00
Demand Motor	0.00 KVA @ 100% 0.00	Total Demand (AMPS)	72.17
Demand Appliances	0.00 KVA @ 100% 0.00		
Non-Coincidental Loads	10.00 KVA @ 0% 0.00	Total Connected Load (KVA)	36.00
Other	20.00 KVA @ 100% 20.00	Total Connected Load (AMPS)	99.93

NOTES:
* CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER

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ISSUE:

#	DATE:	DESCRIPTION:

100% Bid Documents

PROJECT:
State of Iowa

Newton Correctional Facility Iowa Prison Industries Phase II Perimeter Fence

DATE: 07/02/2026
DAS#: 9239.04
DESIGNED: CP
DRAWN: MVN/CG
REVIEWED: CP
FIELD BOOK NO.: N/A

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E1.7

PROJECT NO.: 02401959.001

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Twin Rivers Project #: 24038.02