

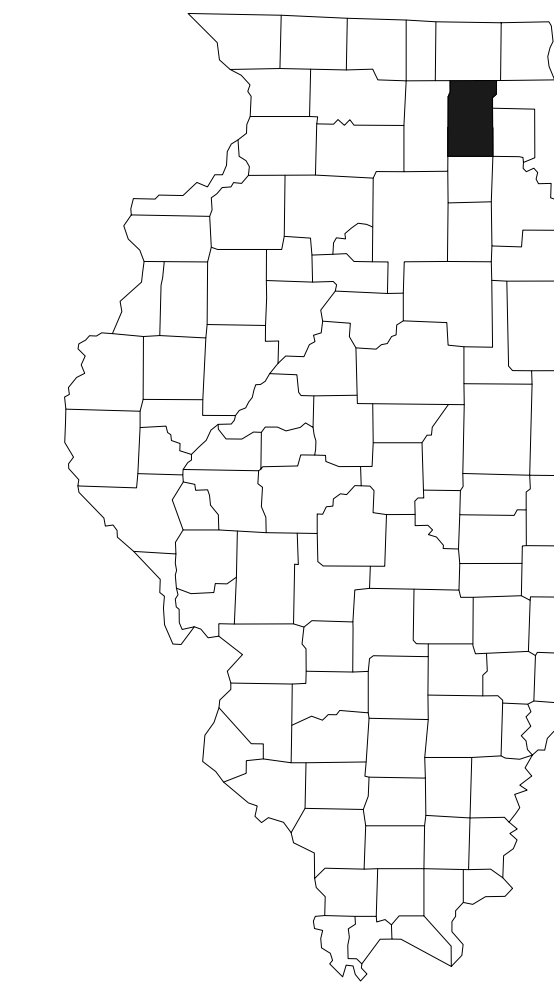
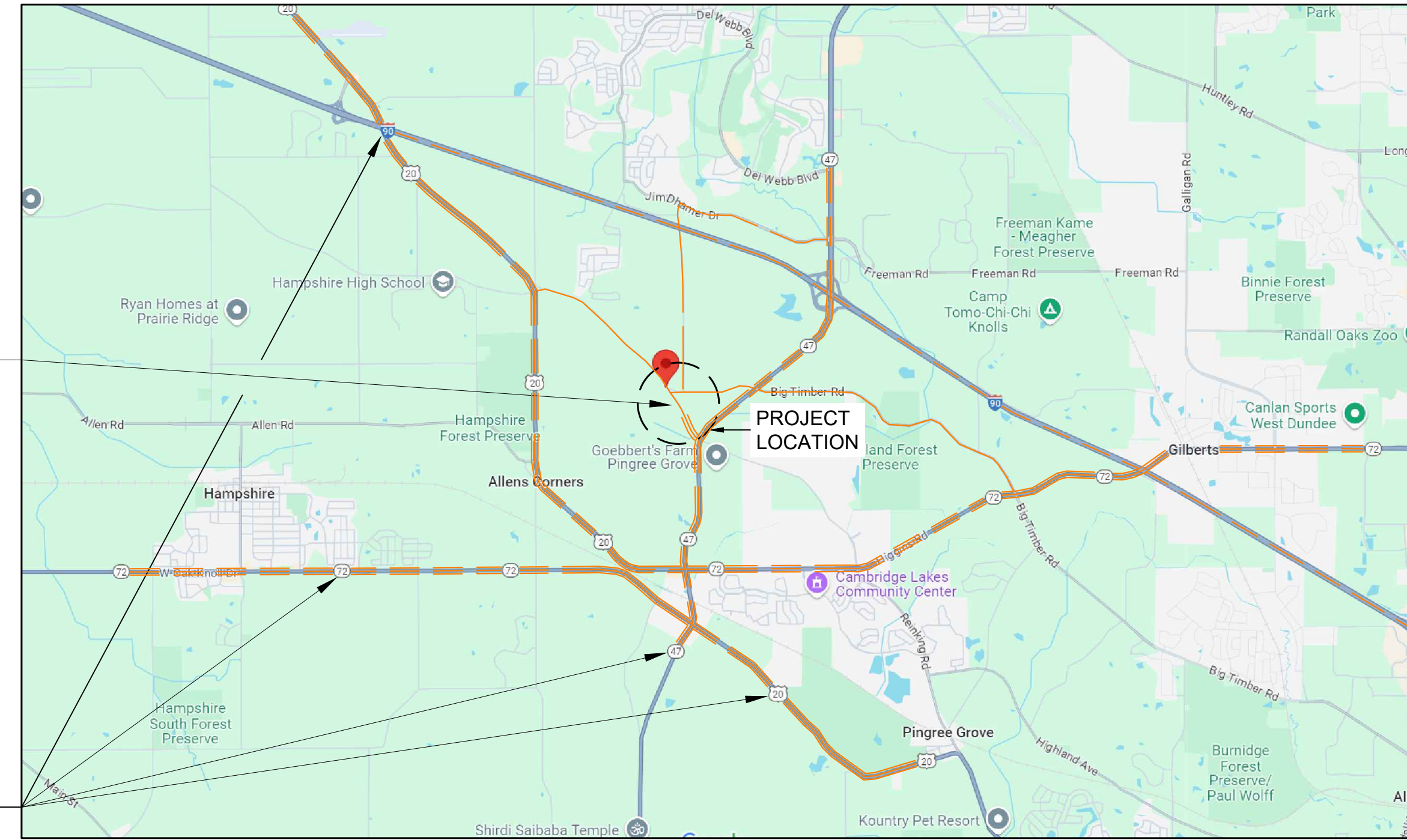
RUTLAND WEST SOLAR FARM, LLC KANE COUNTY, ILLINOIS

SHEET LIST :

- W - DEV . 01 - CP COVER PAGE
- W - DEV . 02 - EC EXISTING GENERAL CONDITIONS PLAN
- W - DEV . 03 - SP NEW POWER FACILITY SITE PLAN
- W - DEV . 04 - CD CONSTRUCTION DETAILS
- W - DEV . 05 - FD FENCE DETAILS

GENERAL NOTES:
LEGAL DESCRIPTION OF THE PROJECT SITE IN RELATION TO THE DEVELOPMENT PARCEL SUBMITTED TO KANE COUNTY OF RECORD.

PROJECT ADDRESS PRIMARY CONSTRUCTION LOGISTICS ROUTE
ANY INTERSTATE VIA (I-90)
HEADING NORTH/SOUTH WEST/EAST TOWARDS
(IL-20, IL-47, IL-72),
PARCEL LOCATED NORTH OF (IL-72) HIGGINS ROAD & EAST OF (IL-20) US GRANT MEM HWY ROUTE
AT THE SOUTHEAST INTERSECTION OF REINKING ROAD & BIG TIMBER ROAD,
SITE CONSTRUCTION ENTRANCE GATE VIA (IL-47), REINKING ROAD WEST
LOCATED NORTH OFF REINKING ROAD, SOUTH OF BIG TIMBER ROAD & NORTH OF IL-47, ON WEST SIDE.

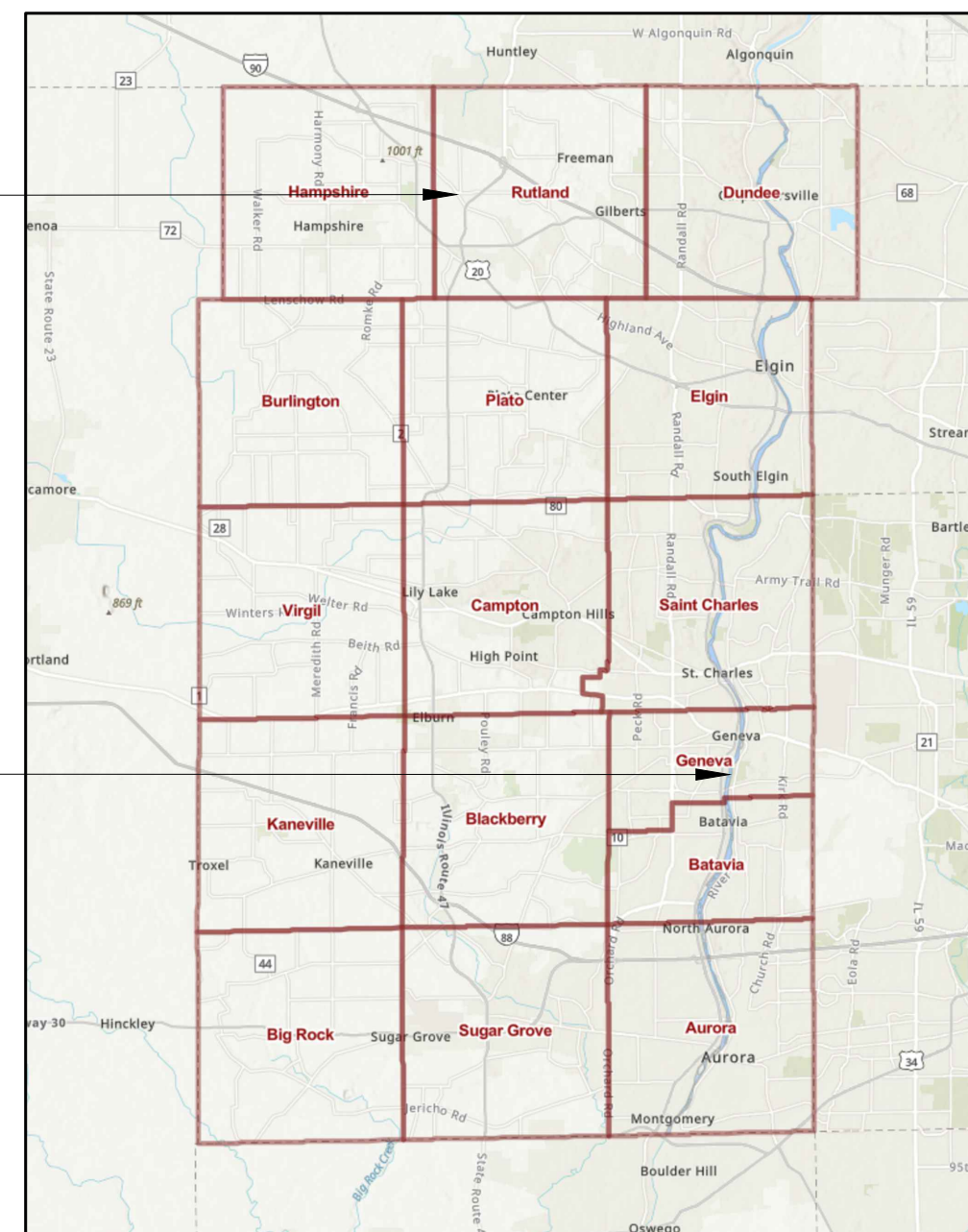


VARIOUS MEANS OF TRANSPORTATION ACCESS (TYP.)

3 IDOT CONSTRUCTION LOGISTICS ROUTE(S)
NOT TO SCALE

1 KANE COUNTY, IL
NOT TO SCALE

RUTLAND TWP & PROJECT LOCATION



KANE COUNTY CLERK HOUSE

2 KANE COUNTY LOCATION PLAN
NOTE TO SCALE



4 P.I.N. VICINITY MAP
NOT TO SCALE

SITE INFORMATION

PARCEL ZONING:	A-1 AGRICULTURE
PROJECT DESCRIPTION	
PROJECT LOCATION:	REINKING RD. & IL-21, HAMPSHIRE, IL 60140
PROJECT PARCEL:	56.09
P.I.N.:	02-19-200-006 02-18-400-009
UTILITY:	COMED
AC SYSTEM SIZE:	2,250 KW / 2,250 KVA
DC SYSTEM SIZE:	2,932.50 KW
AZIMUTH / TILT:	180° / ± 60
GCR:	40%
MODULE MODEL:	Q. TRON XL-G2 625
MODULE WATTAGE:	625 W
MECHANICAL SYSTEM:	HORIZONTAL TRACKER
INVERTER MODEL:	SMA HIGHPOWER PEAK3 150-US

03/20/2025	ISSUED FOR SUP		
11/29/2024	ISSUED FOR BPLER		
10/03/2024	ISSUED FOR IX		
Date	Revision Details	PRE	ENR
	Revision Table		CHK

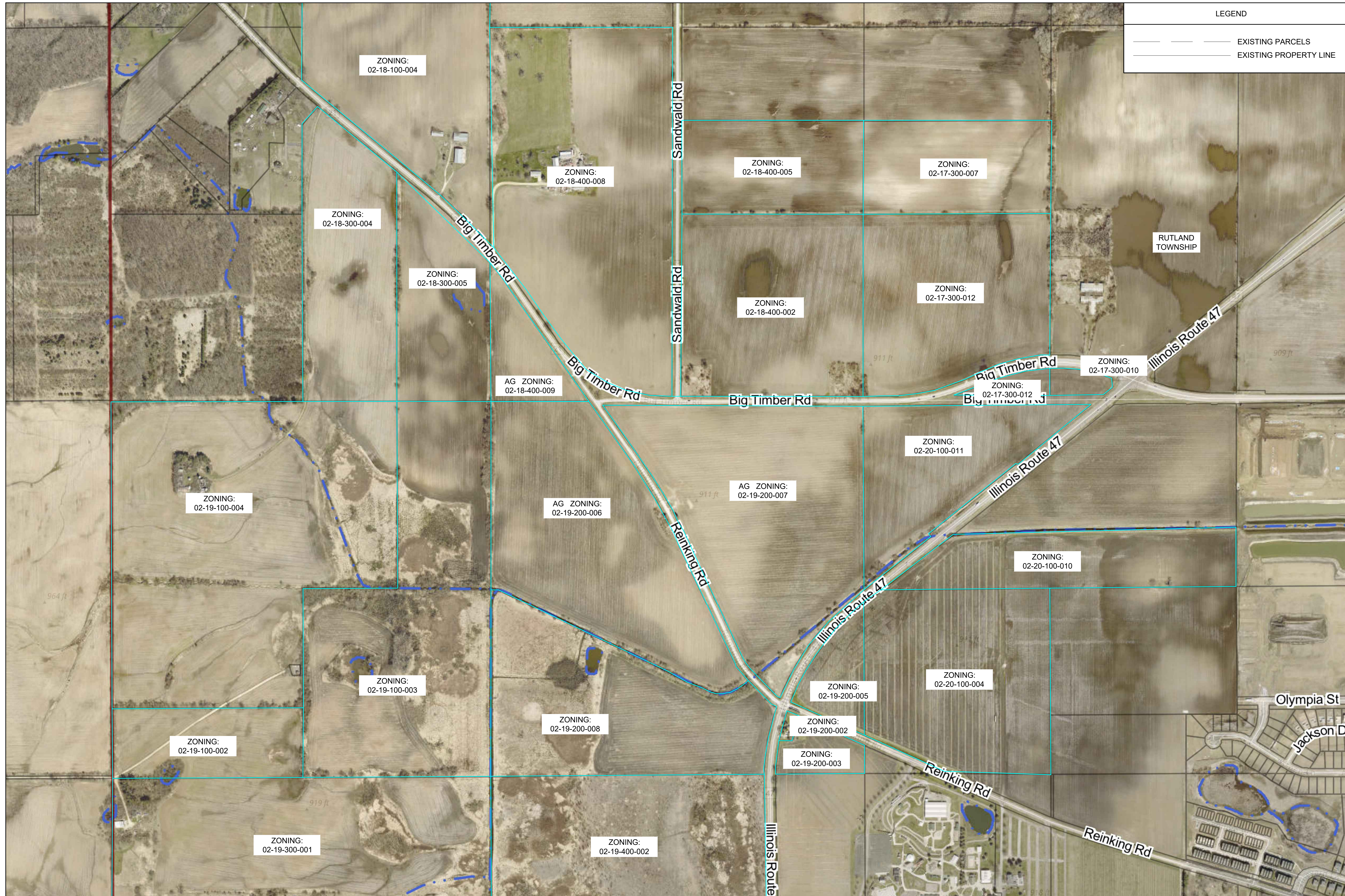
Engineer:
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RUTLAND WEST SOLAR FARM LLC
141 W. JACKSON BLVD STE 1002
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Developer:
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Project Name & Address:
RUTLAND WEST SOLAR FARM
REINKING RD. & IL-21,
HAMPSHIRE, IL 60140
KANE COUNTY
P.I.N. 02-19-200-006 & 02-18-400-009

Drawing Title:
COVER PAGE
STATE COUNTY MAP,
SATELLITE LOCATION MAP,
VICINITY MAP, ROADS,
SITE PRELIMINARY INFORMATION

Project Number:	8884 b	Drawing Number:	W - DEV.01 - CP
Paper Size:	24" X 36"	Sheet Number:	01



LEGEND

	EXISTING PARCELS
	EXISTING PROPERTY LINE

GENERAL NOTES:
 LEGAL DESCRIPTION OF THE PROJECT SITE IN RELATION TO THE DEVELOPMENT PARCEL SUBMITTED TO KANE COUNTY OF RECORD.
 WETLANDS AND FLOODZONES ARE PRESENT AND HAVE BEEN IDENTIFIED ON THE PROJECT SITE. ADDITIONAL STUDIES MAY IMPACT PV MODULE PANEL ARRAY LOCATION.

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03/20/2025	ISSUED FOR SUP			
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10/03/2024	ISSUED FOR IX			

Engineer:
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 REINKING RD & I-21,
 HAMPSHIRE, IL 60140
 KANE COUNTY
 P.I.N. 02-19-200-006 & 02-18-400-009

Drawing Title:
 EXISTING GENERAL CONDITIONS PLAN
 SHOWING ADJACENT LAND PARCELS,
 ZONING & PIN NUMBER, ROADS,
 GEOGRAPHY PROPERTIES,
 SATELLITE VIEW

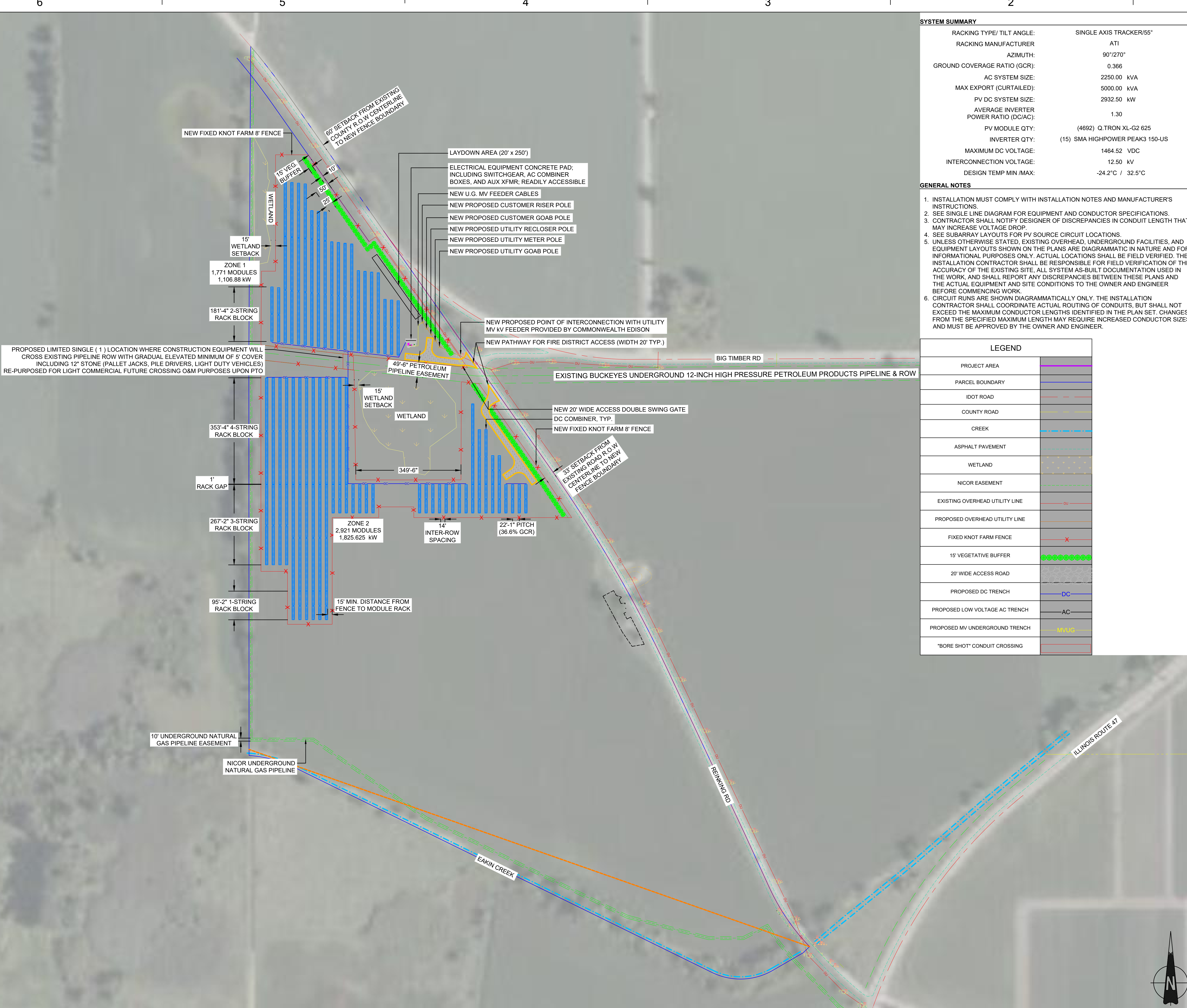
Project Number: 8884 b	Drawing Number: W - DEV.02 - EC
Paper Size: 24" X 36"	Sheet Number: 02

1 EXISTING GENERAL CONDITIONS PLAN
 SCALE: 1" = 299'

QUANTITIES		
DESCRIPTION	VALUE	UNIT
ACCESS ROAD	15,863	SF
FENCE	6,673	LF
FENCE POSTS	668	EA
DOUBLE SWING GATE	2	EA
MODULE	4,531	EA
INVERTER	15	EA
UNDERGROUND UTILITY LINE	120	LF
OVERHEAD UTILITY LINE	200	LF
EQUIPMENT PAD	800	SF

SETBACK		
DESCRIPTION	VALUE	UNIT
FENCE SETBACK	0	LF
SETBACK FOR SOLAR PANELS, STRUCTURES, AND ELECTRICAL EQUIPMENT	50	LF
RESIDENT SETBACK	150	LF
WETLAND SETBACK	15	LF

IMPERVIOUS QUANTITIES		
DESCRIPTION	VALUE	UNIT
ACCESS ROAD	15,863	SF
EQUIPMENT PADS	800	SF
FENCE POSTS @ 0.79 SF EACH	528	SF
TOTAL NEW IMPERVIOUS	17,191	SF
	0.394	AC
PROJECT PARCEL AREA	36.59	AC
IMPERVIOUS PERCENTAGE	1.08	%



SYSTEM SUMMARY	
RACKING TYPE/ TILT ANGLE:	SINGLE AXIS TRACKER/55°
RACKING MANUFACTURER:	ATI
AZIMUTH:	90°/270°
GROUND COVERAGE RATIO (GCR):	0.366
AC SYSTEM SIZE:	2250.00 kVA
MAX EXPORT (CURTAILED):	5000.00 kVA
PV DC SYSTEM SIZE:	2932.50 kW
AVERAGE INVERTER POWER RATIO (DC/AC):	1.30
INVERTER QTY:	(4692) Q,TRON XL-G2 625
PV MODULE QTY:	(15) SMA HIGHPOWER PEAK3 150-US
MAXIMUM DC VOLTAGE:	1464.52 VDC
INTERCONNECTION VOLTAGE:	12.50 kV
DESIGN TEMP MIN MAX:	-24.2°C / 32.5°C

- GENERAL NOTES**
- INSTALLATION MUST COMPLY WITH INSTALLATION NOTES AND MANUFACTURER'S INSTRUCTIONS.
 - SEE SINGLE LINE DIAGRAM FOR EQUIPMENT AND CONDUCTOR SPECIFICATIONS.
 - CONTRACTOR SHALL NOTIFY DESIGNER OF DISCREPANCIES IN CONDUIT LENGTH THAT MAY INCREASE VOLTAGE DROP.
 - SEE SUBARRAY LAYOUTS FOR PV SOURCE CIRCUIT LOCATIONS.
 - UNLESS OTHERWISE STATED, EXISTING OVERHEAD, UNDERGROUND FACILITIES, AND EQUIPMENT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC IN NATURE AND FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LOCATIONS SHALL BE FIELD VERIFIED. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE ACCURACY OF THE EXISTING SITE. ALL SYSTEM AS-BUILT DOCUMENTATION USED IN THE WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ACTUAL EQUIPMENT AND SITE CONDITIONS TO THE OWNER AND ENGINEER BEFORE COMMENCING WORK.
 - CIRCUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY. THE INSTALLATION CONTRACTOR SHALL COORDINATE ACTUAL ROUTING OF CONDUITS, BUT SHALL NOT EXCEED THE MAXIMUM CONDUCTOR LENGTHS IDENTIFIED IN THE PLAN SET. CHANGES FROM THE SPECIFIED MAXIMUM LENGTH MAY REQUIRE INCREASED CONDUCTOR SIZES AND MUST BE APPROVED BY THE OWNER AND ENGINEER.

LEGEND	
PROJECT AREA	[Symbol]
PARCEL BOUNDARY	[Symbol]
IDOT ROAD	[Symbol]
COUNTY ROAD	[Symbol]
CREEK	[Symbol]
ASPHALT PAVEMENT	[Symbol]
WETLAND	[Symbol]
NICOR EASEMENT	[Symbol]
EXISTING OVERHEAD UTILITY LINE	[Symbol]
PROPOSED OVERHEAD UTILITY LINE	[Symbol]
FIXED KNOT FARM FENCE	[Symbol]
15' VEGETATIVE BUFFER	[Symbol]
20' WIDE ACCESS ROAD	[Symbol]
PROPOSED DC TRENCH	[Symbol]
PROPOSED LOW VOLTAGE AC TRENCH	[Symbol]
PROPOSED MV UNDERGROUND TRENCH	[Symbol]
"BORE SHOT" CONDUIT CROSSING	[Symbol]

Bowman

BOWMAN CONSULTING GROUP
210 GRAND AVE
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(970) 527-3920

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PROJECT LLC:

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CHICAGO, IL 60604

811

Know what's below.
Call before you dig.

DRAWING SCALE (IF APPLICABLE):

0 150' 300' 450'

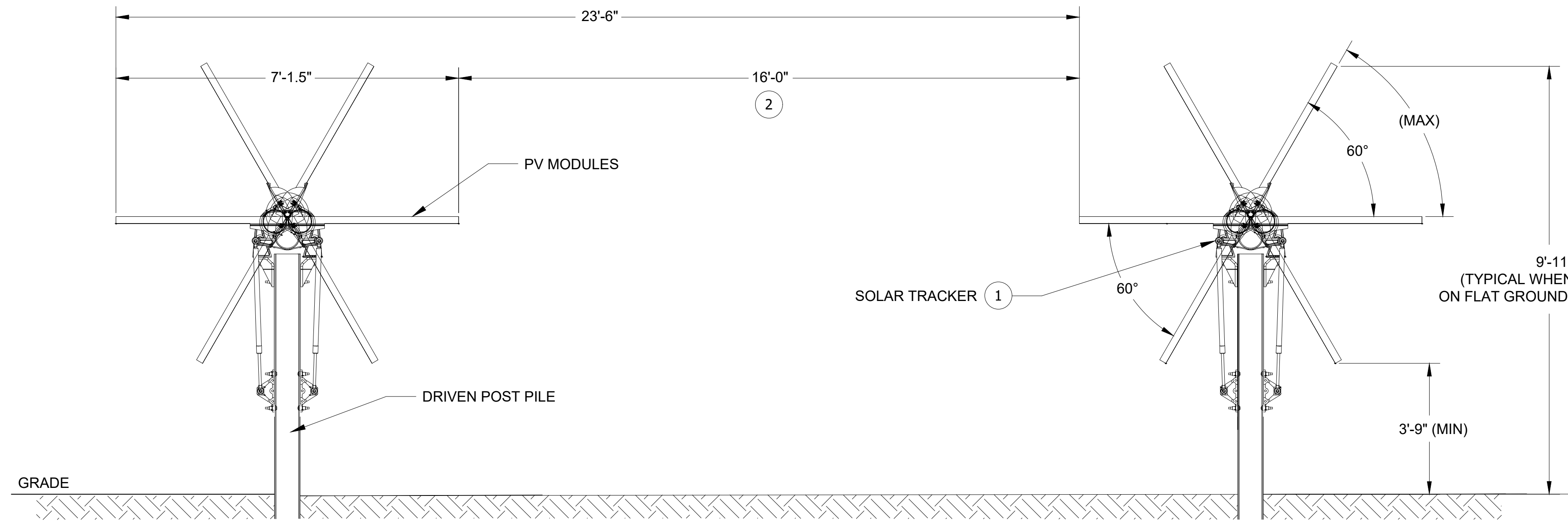
SCALE FEET

REVISION HISTORY		
NOT FOR CONSTRUCTION		
ISSUE	DATE	DESCRIPTION
A	3.20.2025	ISSUED FOR SUP

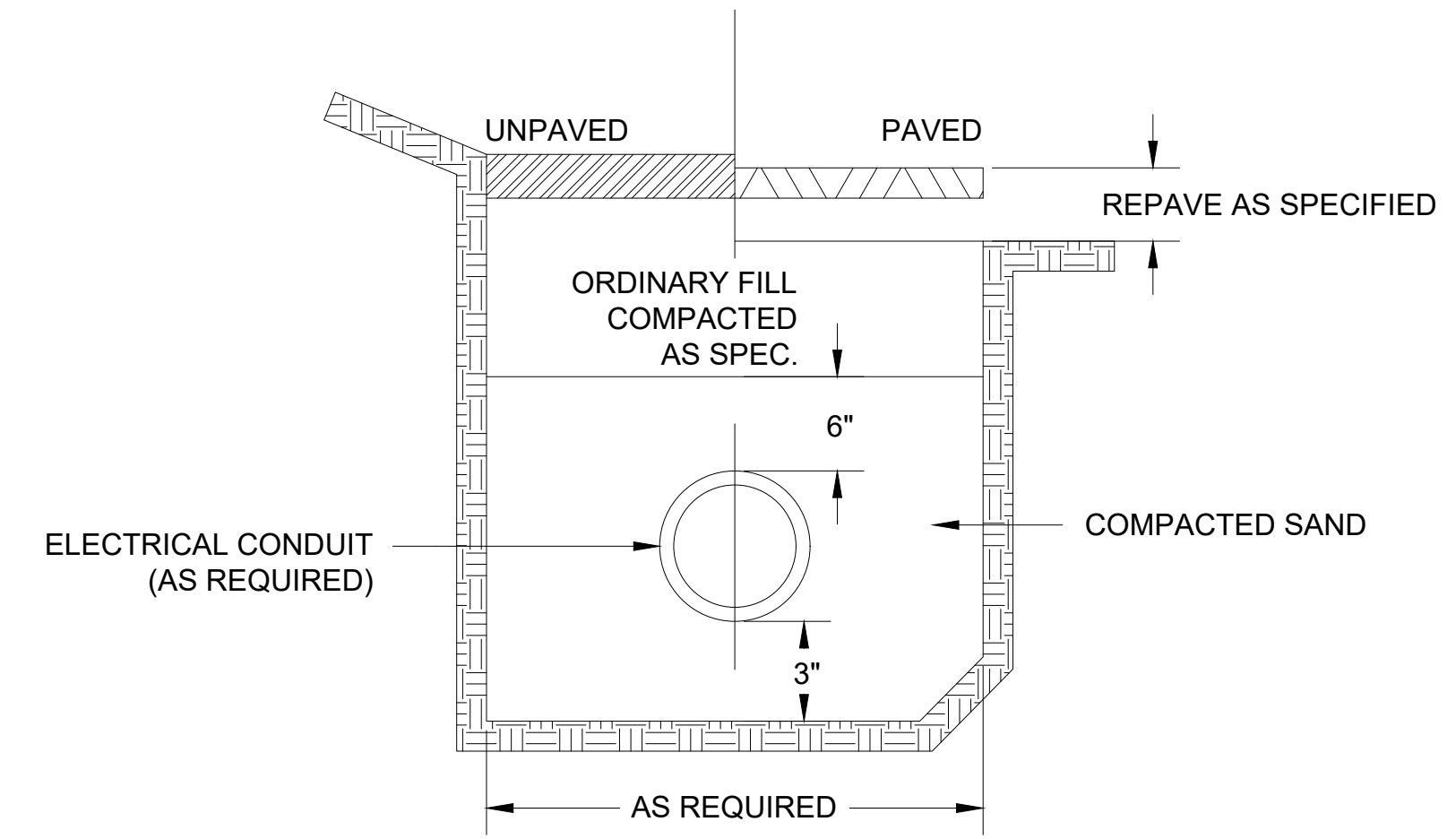
DRAWING NAME:

ADJUSTED SITE PLAN FOR PERMITTING JURISDICTION

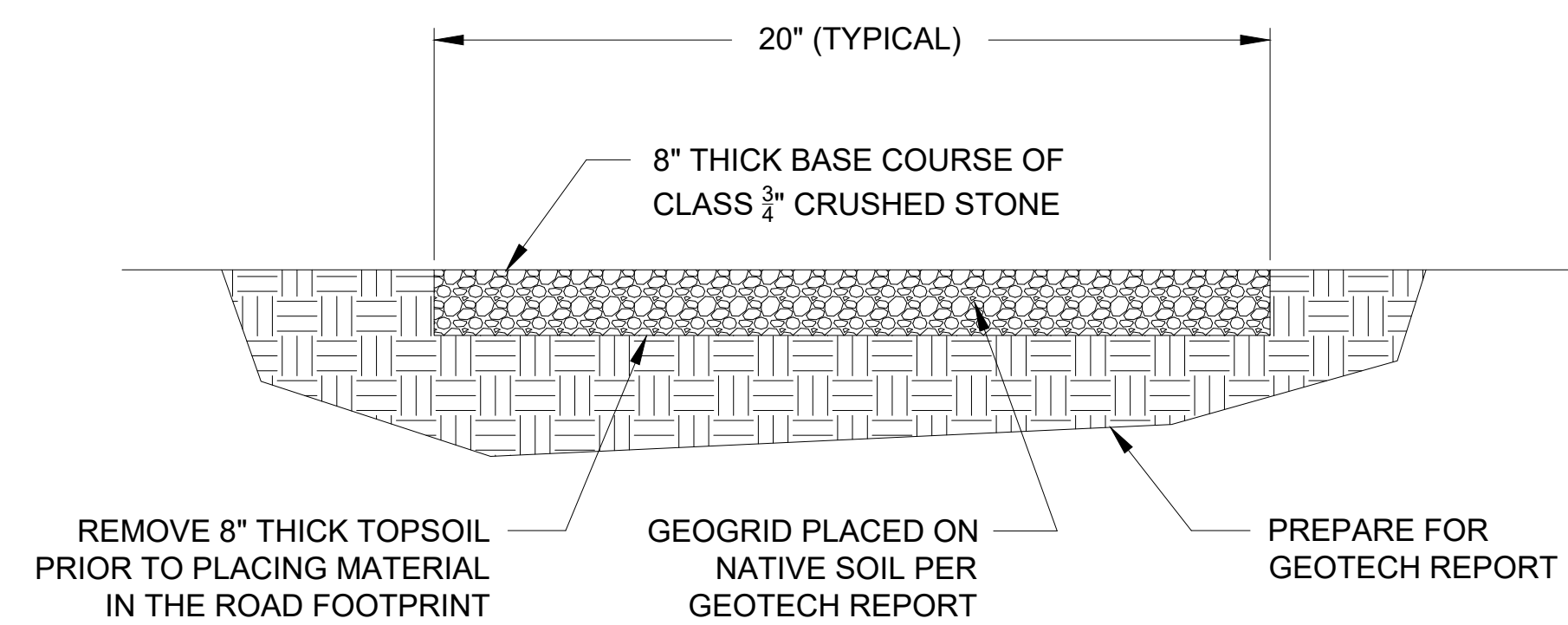
DRAWING NO:	W-DEV.03 - SP	REV.	A
FILE:	---		



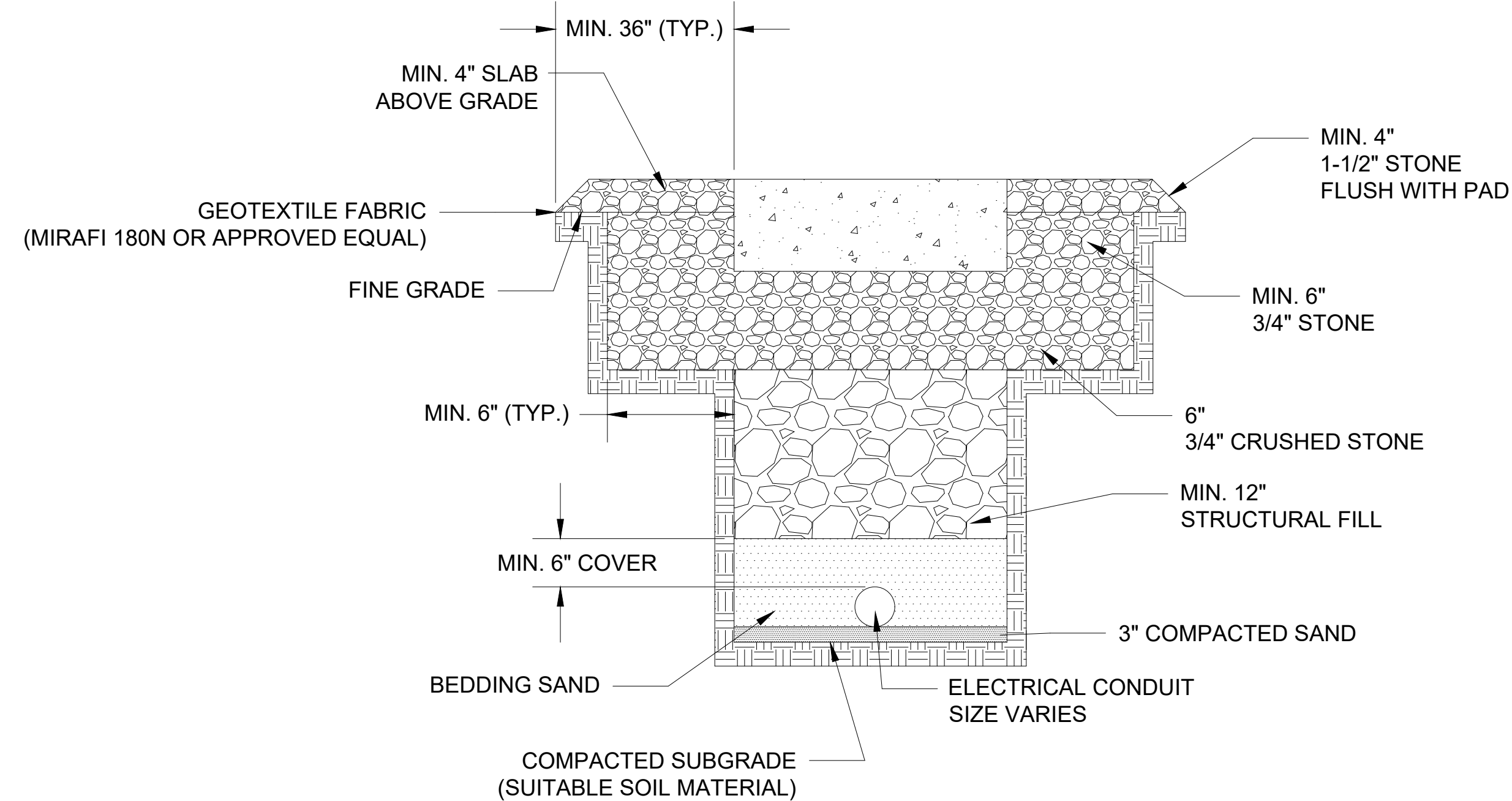
1 MECHANICAL SINGLE AXIS TRACKER RACKING STRUCTURE SYSTEM DETAIL: SCHEMATIC DESIGN
NOT TO SCALE



2 U.G.E. DIRECT BURIED ELECTRICAL CONDUIT TRENCH DETAIL
NOT TO SCALE



3 FIRE DEPARTMENT ACCESS ROAD DETAIL
NOT TO SCALE



4 SUBGRADE EQUIPMENT REINFORCED FOUNDATION DETAIL
NOT TO SCALE

SHEET NOTES:
1. SINGLE AXIS TRACKER MECHANICAL RACKING SYSTEM BY AXIAL TRACKER. SEE MANUFACTURER DRAWINGS FOR ADDITIONAL INFORMATION.
2. STRUCTURE DIMENSIONS SHOWN ARE TYPICAL FOR FLAT GRADE. DIMENSIONS MAY VARY WHERE SLOPES EXIST.

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	Revision Table			

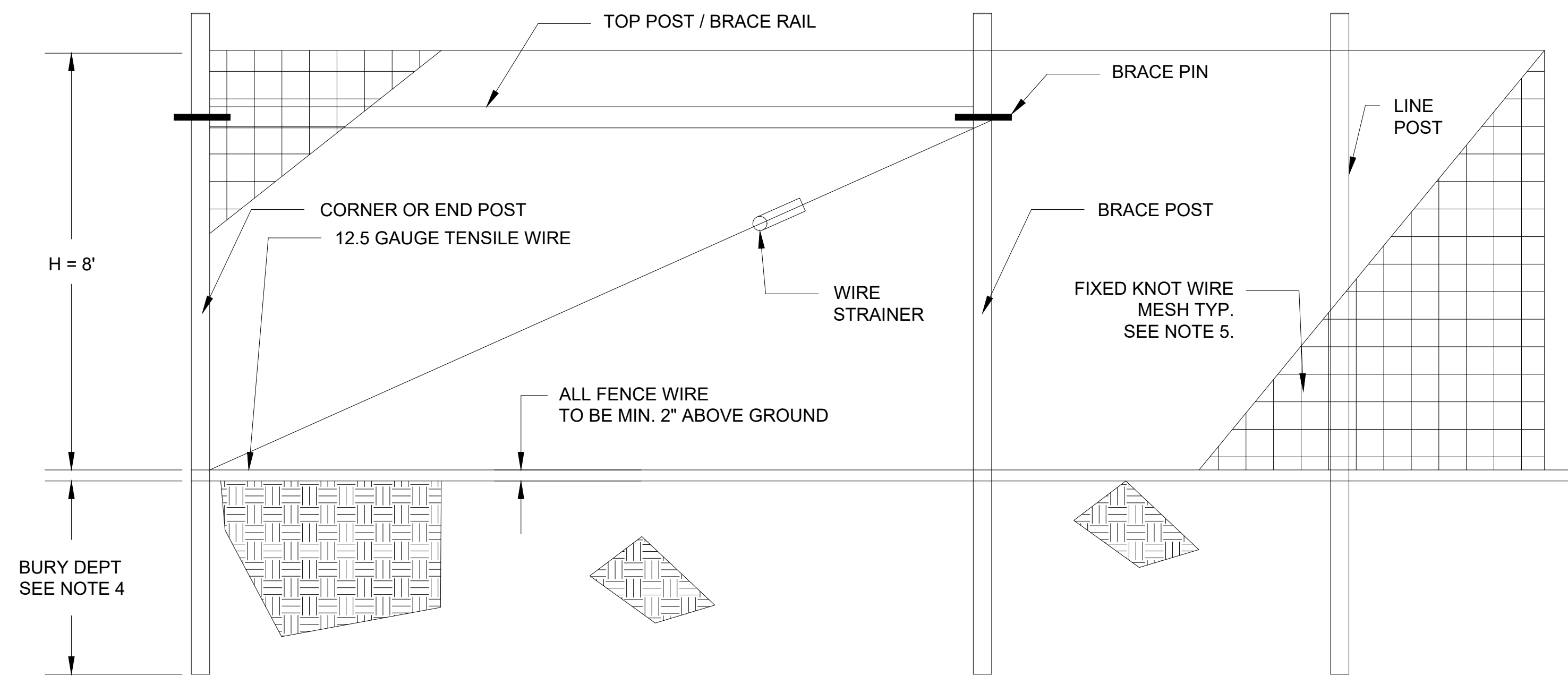
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KANE COUNTY
P.I.N. 02-19-200-006 & 02-18-400-009

Drawing Title:
CONSTRUCTION DETAILS
TYPICAL DETAILS, CUT SECTIONS & ELEVATIONS OF
FIRE DEPARTMENT ACCESS ROAD, EQUIPMENT FOUNDATIONS,
PV MECHANICAL TRACKER RACKING STRUCTURE SYSTEM,
U.G.E. CONDUIT TRENCHING

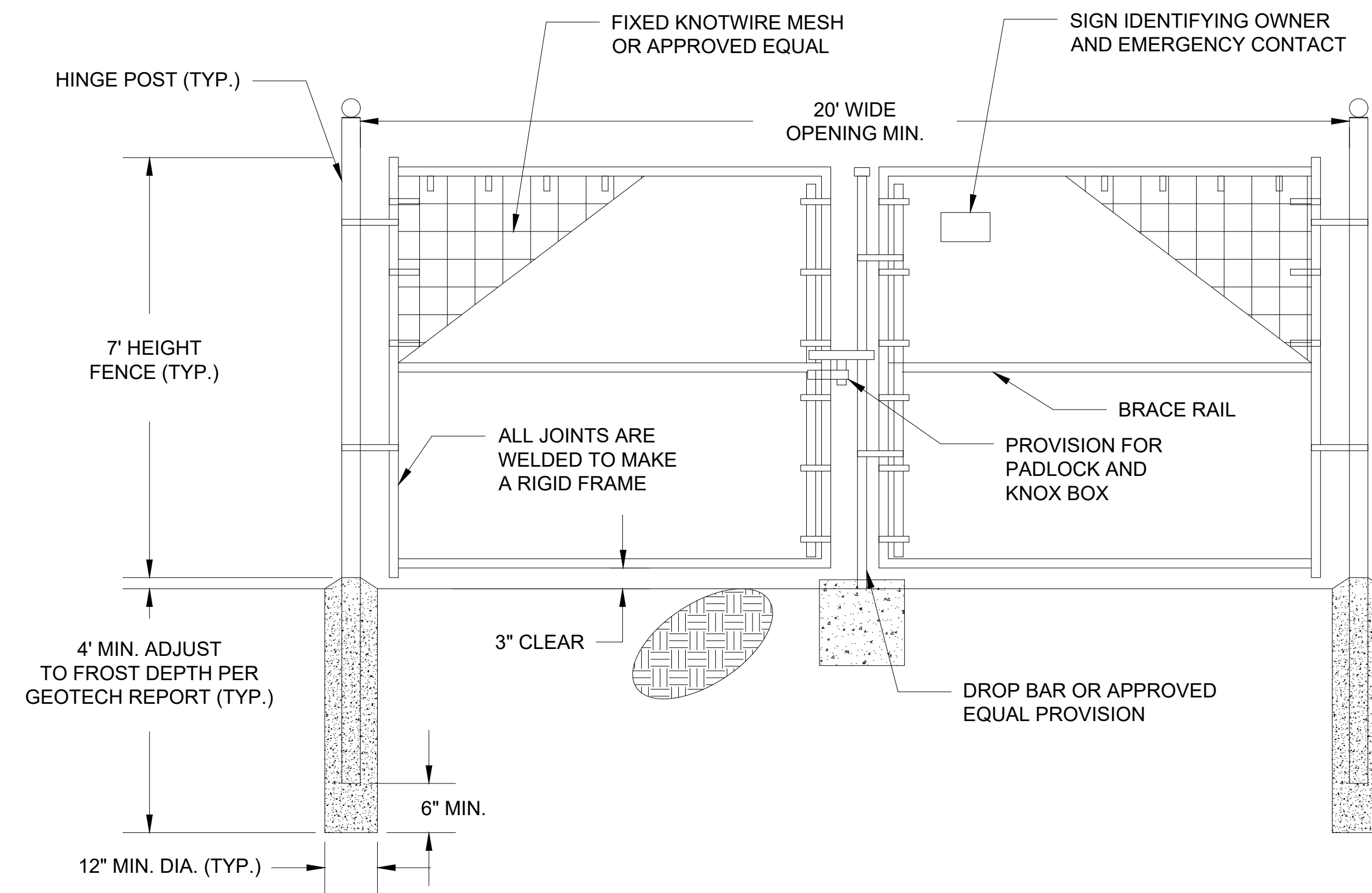
Drawing Number: 8884 b	Sheet Number: W - DEV.04 - CD
Paper Size: 24" X 36"	Sheet Number: 04



1 FIXED KNOT FARM FENCE DETAIL
NOT TO SCALE

NOTES:

1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURERS SPECIFICATIONS.
2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
3. ALL SQUARE POSTS TO BE MIN. 5"X5" NOMINAL SIZE OR ROUND POST WITH MIN. 5" OR 6" DIAMETER PRESSURE TREATED WOOD OR APPROVED EQUAL. PREFER POSTS TO HAVE A CHAMFERED TOP.
4. ALL LINE POST TO BE SET TO A MIN. DEPTH OF 4' BELOW GRADE, ALL CORNER, END OR GATE POSTS SHALL BE SET TO A MIN. DEPTH OF 6' BELOW GRADE, UNLESS OTHERWISE NOTES.
5. FIXED KNOT WIRE MESH TO BE BEKAERT SOLID LOCK® PRO, 12.5 GAUGE, CLASS 3 GLAVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
6. BRACING IS REQUIRED AT ALL CORNER, END AND GATE POSTS, DOUBLE BRACING (TWO BRACE ASSEMBLIES IN A ROW) SHOULD BE USED FOR STRAIGHT RUNS OF FENCE THAT EXCEED 1,000 LF. AN ADDITIONAL BRACE ASSEMBLY SHOULD BE INSTALLED MID SPAN FOR STRAIGHT RUNS OF FENCE THAT EXCEED 1,320 LF. ADDITIONAL BRACING MAY BE STILL BE REQUIRED OVER UNEVEN TERRAIN, CONTRACTOR SHALL INSTALL ADDITIONAL BRACING AS NEEDED IF DEFLECTION IS NOTICED DURING TENSIONING.



2 FIXED KNOT FARM FENCE 20' WIDE DOUBLE SWING GATE DETAIL
NOT TO SCALE

NOTES:

1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS.
2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTES.
3. HINGE POSTS MAY BE TIMBER IF CONTRACTOR DESIRES, TIMBER HINGE POSTS DO NOT NEED TO BE SET IN CONCRETE. UTILIZE HINGE THRU BOLTS TO CONNECT TO TIMBER HINGE POSTS OR LAG SCREWS, PER MANUFACTURERS RECOMMENDATIONS.
4. IF CONTRACTOR UTILIZES METAL HINGE POST THAN POSTS SHALL BE SET IN CONCRETE AS SHOWN IN DETAIL.
5. BRACING REQUIRED AT FOR ALL GATES. SEE FIXED KNOT FARM FENCE DETAIL.
6. FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRO, 12.5 GAUGE, CLASS 3 GLAVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
7. BRACE RAIL SHOWN FOR REFERENCE ADDITIONAL BRACE RAILS MAY BE REQUIRED (NOT SHOWN) OR TRUSS RODS MAY BE REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:
ADDITIONAL FENCING AND GATE DETAILS TO BE FURTHER REVIEWED BY KANE COUNTY OF RECORD AUTHORITY HAVING JURISDICTION DURING BUILDING PERMIT APPROVAL. THE FOLLOWING PLAN IS CONCEPTUAL, PRELIMINARY SCHEMATIC DESIGN AND IS SUBJECT TO CHANGE.

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03/20/2025	ISSUED FOR SUP			
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Drawing Title:
FENCE DETAILS
TYPICAL DETAILS, CUT SECTIONS & ELEVATIONS OF FENCING & DOUBLE SWING ACCESS GATE.

Project Number: 8884 b	Drawing Number: W - DEV.05 - FD
Paper Size: 24" X 36"	Sheet Number: 05