



PARCEL #: 012-0816-2232-006
OWNER: POTENBERG TRUST

PARCEL #: 012-0816-2232-043
OWNER: STACY D WINKELMAN
DANIEL W WINKELMAN

PARCEL #: 012-0816-2232-005
OWNER: RYAN M WILLIS
JANET L WILLIS

PARCEL #: 012-0816-2232-003
OWNER: TGP HOLDINGS LLC

PARCEL #: 012-0816-2231-009
OWNER: BRIAN PERNAT
BONNIE PERNAT

PARCEL #: 012-0816-2232-039
OWNER: GROWMARK INC

PARCEL #: 012-0816-2232-040
OWNER: SANDY CREEK LLC

PARCEL #: 012-0816-2232-040
OWNER: SANDY CREEK LLC

PARCEL #: 012-0816-2232-047
OWNER: L R NORBERG DIR PRO TAXC
HI MIL STP&PAC RR CO

EXISTING 127' WATER TOWER

PARCEL #: 012-0816-2232-043
OWNER: TOLLEFSEN ENTERPRISES LLC

PARCEL #: 012-0816-2232-042
OWNER: GROWMARK INC.

PARCEL #: 012-0816-2232-041
OWNER: CLASSIC SEAMLESS
GUTTERS INC

MARIETTA AVE

AMERICAN ST
(COUNTY RD F)

CONSULTANT:

Edge
Consulting Engineers, Inc.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
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608.644.1549 FAX
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CLIENT:



OVERALL SITE PLAN
IXONIA (27652)
IXONIA, WISCONSIN

SUBMITTAL:

INT.	DATE	DESCRIPTION:

CHECKED BY: AJO

PLOT DATE: 5/12/2021

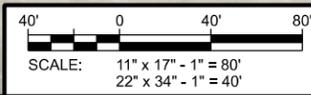
PROJECT NUMBER: 27652

SET TYPE: BD

SHEET NUMBER: **C-101**

GENERAL NOTES: (THIS SHEET)

- NORTH ARROW SHOWN AS APPROXIMATE.
- AERIAL IMAGERY PER UAS-DRONE FLIGHT: EDGE CONSULTING ENGINEERS, INC. ON 08/19/2020 AND SUPPLEMENTED WITH AERIAL IMAGERY PER: JEFFERSON COUNTY GIS MAPPING DATA
- NO PROPERTY SURVEY WAS PERFORMED AS PART OF THIS PROJECT. ALL PROPERTY LINES SHOWN ARE APPROXIMATE.



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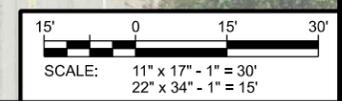
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CLIENT:
ENLARGED SITE PLAN
IXONIA (27652)
IXONIA, WISCONSIN



- GENERAL NOTES: (THIS SHEET)**
1. NORTH ARROW SHOWN AS APPROXIMATE.
 2. AERIAL IMAGERY PER UAS-DRONE FLIGHT: EDGE CONSULTING ENGINEERS, INC. ON 08/19/2020
 3. NO PROPERTY SURVEY WAS PERFORMED AS PART OF THIS PROJECT. ALL PROPERTY LINES SHOWN ARE APPROXIMATE.
 4. TOPOGRAPHIC FEATURES PER TOPOGRAPHIC SURVEY BY: EDGE CONSULTING ENGINEERS, INC. ON 08/19/2020
 5. UNDERGROUND UTILITIES SHOWN PER: DIGGERS HOTLINE TICKET #: 20203315346
 UTILITIES NOTIFIED INCLUDE:
 ROGERS COMMUNICATIONS CANADA INC. CNC01
 TOWN OF IXONIA IX001
 AT&T DISTRIBUTION SBC01
 TIME WARNER CABLE - TWC30
 WE ENERGIES-HIGH PROFILE GAS-W98WO, W99WO
 WE ENERGIES-ELE AND WE GAS-WOWEB



SUBMITTAL:		
INT.	DATE:	DESCRIPTION:

CHECKED BY:	AJO
PLOT DATE:	5/12/2021
PROJECT NUMBER:	27652
SET TYPE:	BD
SHEET NUMBER:	C-102

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KEYNOTES: (THIS SHEET)

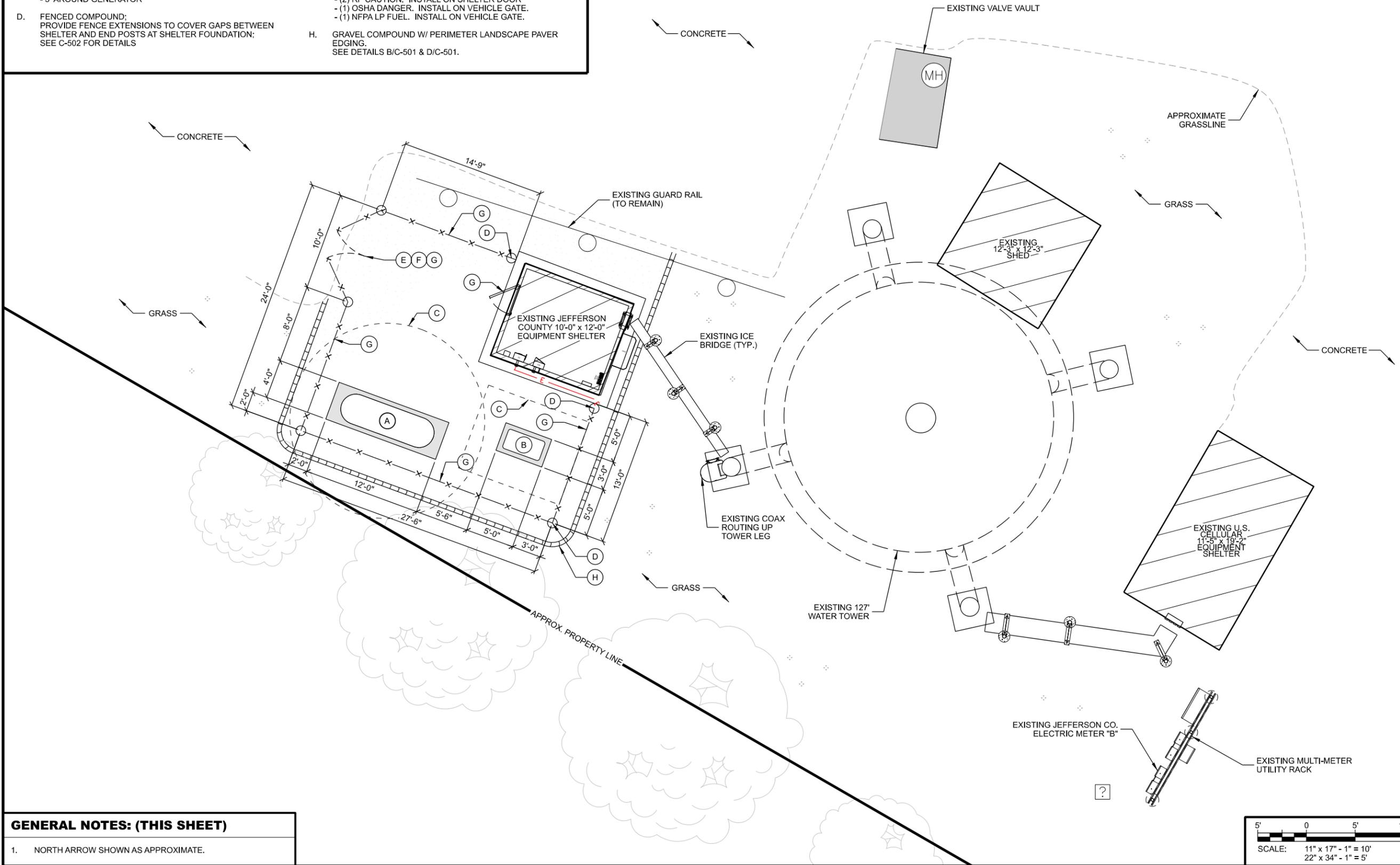
- A. 500 GAL. LP FUEL TANK ON CONCRETE SLAB; SEE C-504 FOR DETAILS
- B. 22 kW GENERATOR ON CONCRETE SLAB; GENERATOR PROVIDED BY OWNER & INSTALLED BY CONTRACTOR. SEE C-504 FOR DETAILS
- C. CLEARANCE ZONE/SETBACKS
- 10' AROUND LP TANK
- 3' AROUND GENERATOR
- D. FENCED COMPOUND; PROVIDE FENCE EXTENSIONS TO COVER GAPS BETWEEN SHELTER AND END POSTS AT SHELTER FOUNDATION; SEE C-502 FOR DETAILS
- E. 10' WIDE ACCESS GATE (NO SNOW GATE); SEE C-502 FOR DETAILS
- F. GATE LOCK; (1) PADLOCK BY CONTRACTOR
- G. SIGNAGE:
- (0) ASR. INSTALL ON VEHICLE GATE.
- (1) SITE IDENTIFICATION. INSTALL ON SHELTER DOOR
- (4) RF NOTICE. INSTALL ON EACH SIDE OF FENCE
- (2) RF CAUTION. INSTALL ON SHELTER DOOR
- (1) OSHA DANGER. INSTALL ON VEHICLE GATE.
- (1) NFPA LP FUEL. INSTALL ON VEHICLE GATE.
- H. GRAVEL COMPOUND W/ PERIMETER LANDSCAPE PAVER EDGING. SEE DETAILS B/C-501 & D/C-501.



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**COMPOUND PLAN
 IXONIA (27652)
 IXONIA, WISCONSIN**



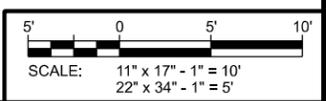
SUBMITTAL:

INT.	DATE	DESCRIPTION:

CHECKED BY	AJO
PLOT DATE	5/12/2021
PROJECT NUMBER	27652
SET TYPE	BD
SHEET NUMBER	C-103

GENERAL NOTES: (THIS SHEET)

- NORTH ARROW SHOWN AS APPROXIMATE.



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GRADING NOTES: (THIS SHEET)

1. CONTOUR INTERVAL IS 1 FOOT.
2. PERIMETER CONTROLS AND STONE TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING OPERATIONS. STONE TRACKING PAD SHALL BE A 12'X50' MIN. CONSISTING OF 3" BREAKER STONE.
3. CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES, BEYOND THOSE SHOWN IN THIS PLAN, SUITABLE FOR THEIR MEANS AND METHODS TO KEEP ALL SEDIMENT ON SITE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES IMPLEMENTATION OF SILT FENCE, EROSION BALES, TRACKING PADS, DIVERSION BERMS AND/OR OTHER APPROPRIATE DEVICES.
4. CONTRACTOR SHALL GRADUALLY MATCH INTO EXISTING GRADE. NO PROPOSED EARTHWORK SHALL HAVE A GREATER SLOPE THAN 3:1. FINISHED SITE TO BE GRADED TO MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.
5. DRIVEWAY GRADE WITHIN 25 FEET OF PUBLIC ROAD ACCESS POINT SHALL BE LESS THAN 10% (10:1).
6. FINISHED GRADE SLOPES GREATER THAN 10:1, DITCH BOTTOMS AND GRASS SURFACES WITHIN 6 FEET OF ANY PAVED OR GRAVEL SURFACE REQUIRE EROSION MAT (CLASS II, URBAN TYPE B)
7. ALL DISTURBED GRASS/TURF AREAS SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH. TOPSOIL TO BE 6-INCHES MINIMUM. SEED TO CONSIST OF NATIVE PURE LIVE SEED (PLS) AT 98% PURITY AND 95% GERMINATION. MULCH TO BE WEED-FREE GRAIN STRAW.
8. CONTRACTOR TO PERFORM MAINTENANCE AND INSPECTION OF EROSION CONTROL DEVICES AND EXPOSED GRADE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES ON A WEEKLY BASIS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT 0.5 INCHES OR GREATER WHICH RESULTS IN RUNOFF. CONTRACTOR SHALL CONTINUE MAINTENANCE AND INSPECTION UNTIL FULL VEGETATION ESTABLISHMENT AND/OR PROJECT ACCEPTANCE.
9. CONTRACTOR TO REMOVE EROSION CONTROL MEASURES AFTER PROJECT ACCEPTANCE.



LEGEND: (THIS SHEET)

- EXISTING CONTOUR GRADES
- PROPOSED CONTOUR GRADES
- SPOT ELEVATIONS
P = PROPOSED ELEV.
E = EXISTING ELEV.
TOC = TOP OF CONC.
- PROPOSED DRAINAGE PATH
- SILT FENCE
- LIMITS OF DISTURBANCE
- EROSION MAT

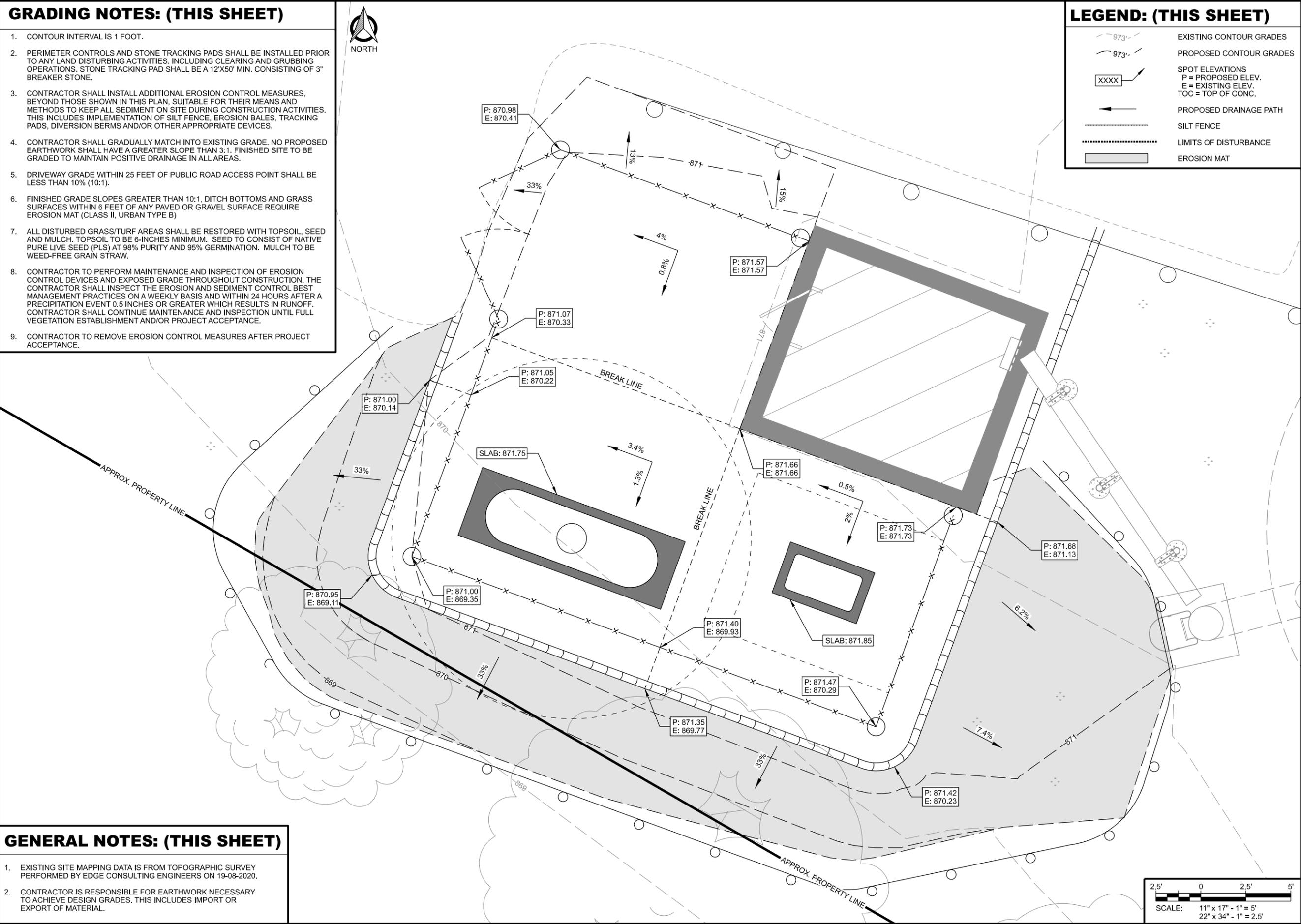
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GRADING AND EROSION CONTROL PLAN IXONIA (27652) IXONIA, WISCONSIN

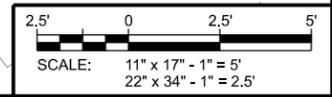
GENERAL NOTES: (THIS SHEET)

1. EXISTING SITE MAPPING DATA IS FROM TOPOGRAPHIC SURVEY PERFORMED BY EDGE CONSULTING ENGINEERS ON 19-08-2020.
2. CONTRACTOR IS RESPONSIBLE FOR EARTHWORK NECESSARY TO ACHIEVE DESIGN GRADES. THIS INCLUDES IMPORT OR EXPORT OF MATERIAL.

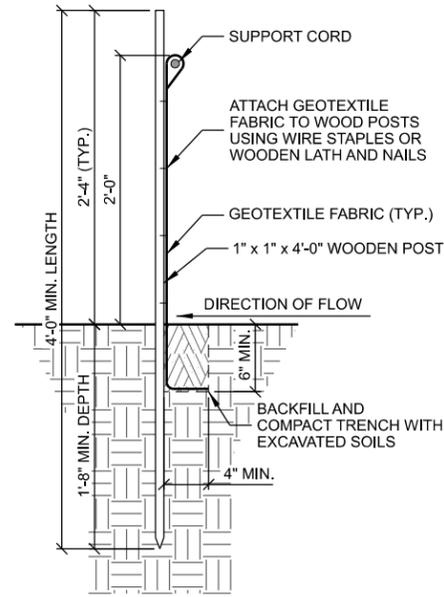
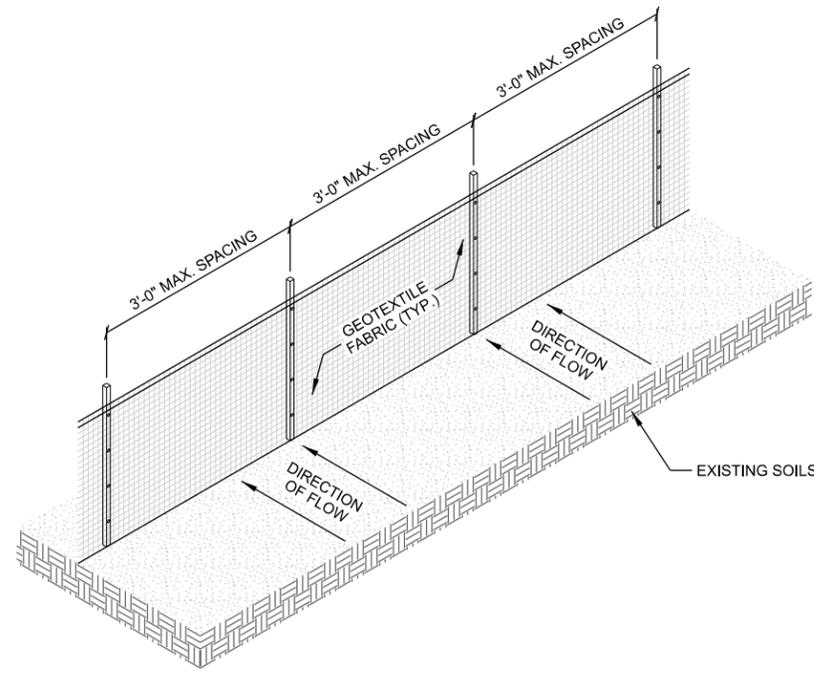


SUBMITTAL:		
INT.	DATE:	DESCRIPTION:

CHECKED BY	AJO
PLOT DATE	5/12/2021
PROJECT NUMBER	27652
SET TYPE	BD
SHEET NUMBER	C-104

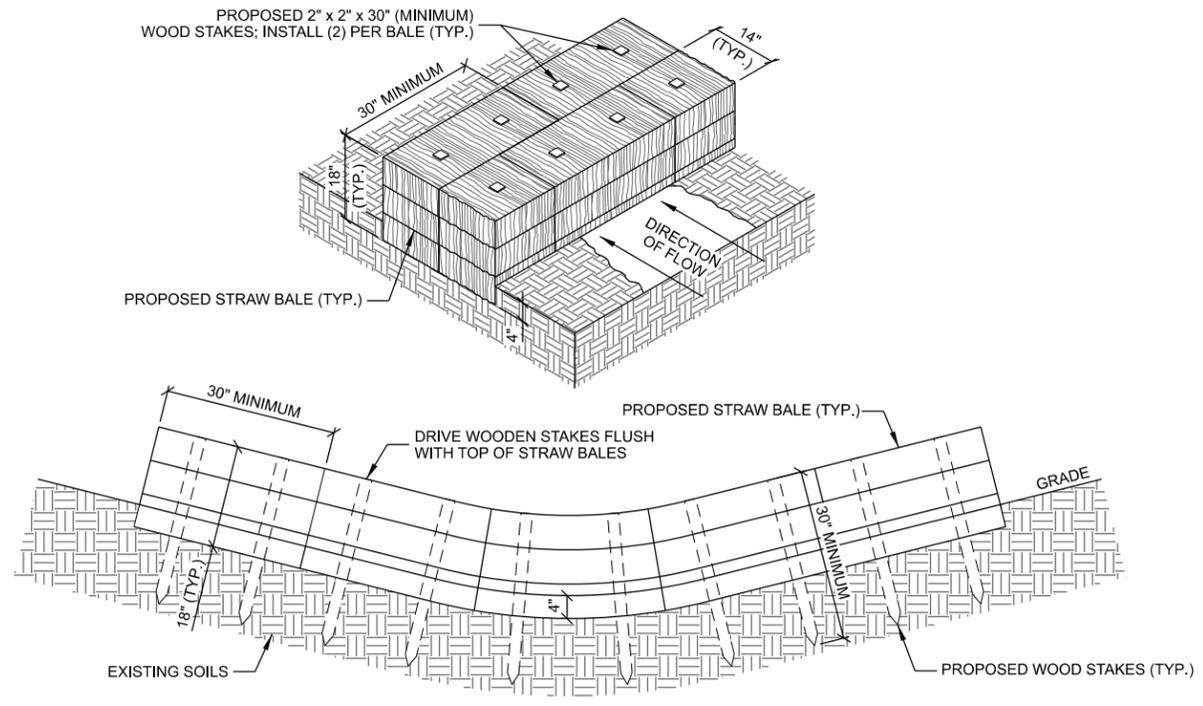


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- NOTES:
1. TRENCH SHALL BE SIZED TO ACHIEVE ADEQUATE GEOTEXTILE FABRIC ANCHORAGE. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
 2. WOOD POSTS SHALL BE HICKORY OR OAK.
 3. 8'-0" POST SPACING IS ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.
 4. ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOIL CONDITIONS.

A SILT FENCE



- NOTES:
1. STAGGER JOINTS BETWEEN ADJACENT ROWS OF BALES.
 2. ALL DIMENSIONS ARE APPROXIMATE.

B STRAW BALE DITCH CHECK

THIS SPACE INTENTIONALLY LEFT BLANK

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GRADING & EROSION CONTROL DETAILS
 IXONIA (27652)
 IXONIA, WISCONSIN

SUBMITTAL:

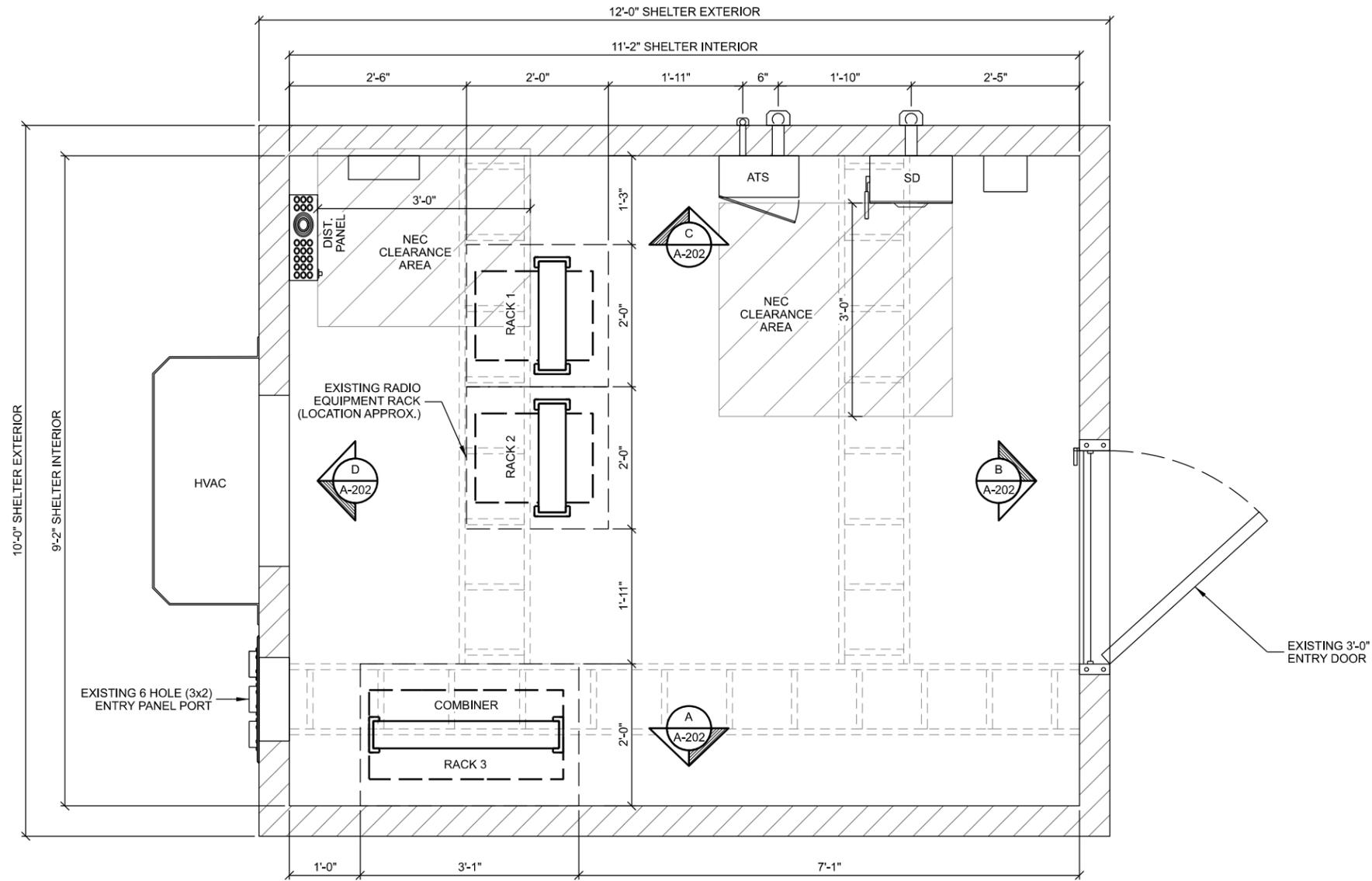
INT.	DATE	DESCRIPTION

CHECKED BY	AJO
PLOT DATE	5/12/2021
PROJECT NUMBER	27652
SET TYPE	BD
SHEET NUMBER	C-505

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GENERAL NOTES: (THIS SHEET)

- CONTRACTOR TO FIELD VERIFY PENETRATION LOCATION DIMENSIONS WITH SUPPLIED BUILDING. DIMENSIONS SHOWN ARE APPROXIMATE.



A SHELTER FLOOR PLAN
 SCALE: 11" x 17" - 1/2" = 1'-0"
 22" x 34" - 1" = 1'-0"

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CLIENT:



SHELTER FLOOR PLAN
 IXONIA (27652)
 IXONIA, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:

CHECKED BY:	AJO
PLOT DATE:	5/12/2021
PROJECT NUMBER:	27652
SET TYPE:	BD
SHEET NUMBER:	A-101

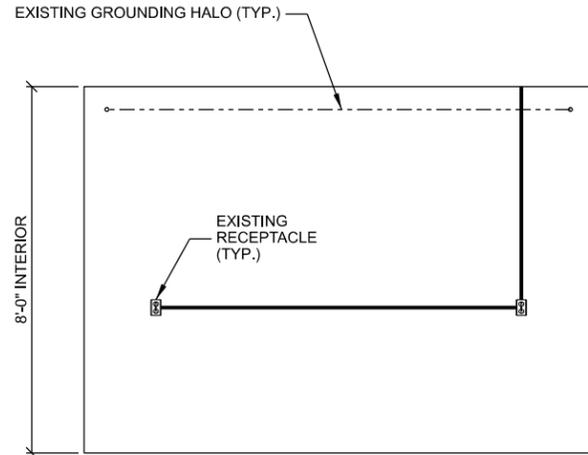
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KEYNOTES: (THIS SHEET)

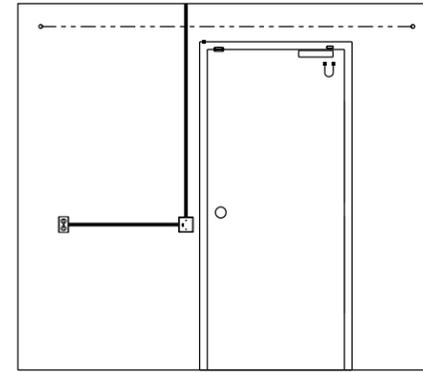
- A. AUTOMATIC TRANSFER SWITCH (ATS) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR; INSTALL AT 6'-0" ABOVE FINISH FLOOR
- B. BOND ALL DEVICE BOXES (ATS) TO HALO (#6 STRANDED INSULATED)
- C. ALARM WIRING FROM EXISTING AND INSTALLED DEVICES
- D. 100A SERVICE DISCONNECT
- E. 60A CIRCUIT BREAKER & SPD1 ON ELECTRIC SERVICE DISCONNECT
- F. LP TANK REMOTE LEVEL MONITOR

GENERAL NOTES: (THIS SHEET)

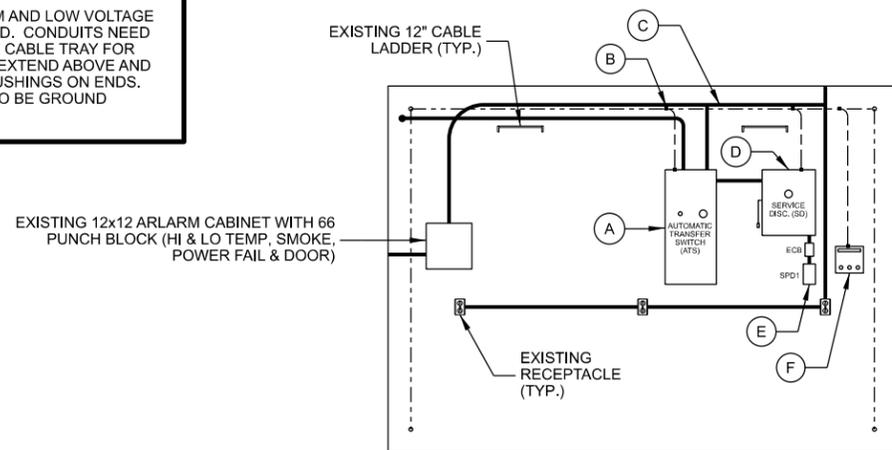
- 1. ALL INTERIOR CONDUITS TO BE RGS OR EMT. UTILIZE COMPRESSION FITTINGS FOR EMT INSTALLATIONS.
- 2. ALL MECHANICAL GROUND CONNECTIONS TO UTILIZE TWO-HOLE LUGS AND STAINLESS STEEL HARDWARE. PROVIDE ANTI OXIDANT COMPOUND BETWEEN LUG & CONNECTION POINT. USE COPPER ANTI-OXIDENT FOR COPPER TO COPPER CONNECTION.
- 3. PROVIDE EMT CONDUIT FOR ALL ALARM AND LOW VOLTAGE WIRING FROM DEVICE TO ALARM BOARD. CONDUITS NEED NOT BE FULL LENGTH AND MAY UTILIZE CABLE TRAY FOR HORIZONTAL RUNS. CONDUITS SHALL EXTEND ABOVE AND OVER TO CABLE TRAY AND PROVIDE BUSHINGS ON ENDS. ALL METALLIC CONDUITS AND BOXES TO BE GROUND BONDED TO HALO.
- 4. ALL METALLIC CONDUITS AND BOXES TO BE GROUND BONDED TO HALO.



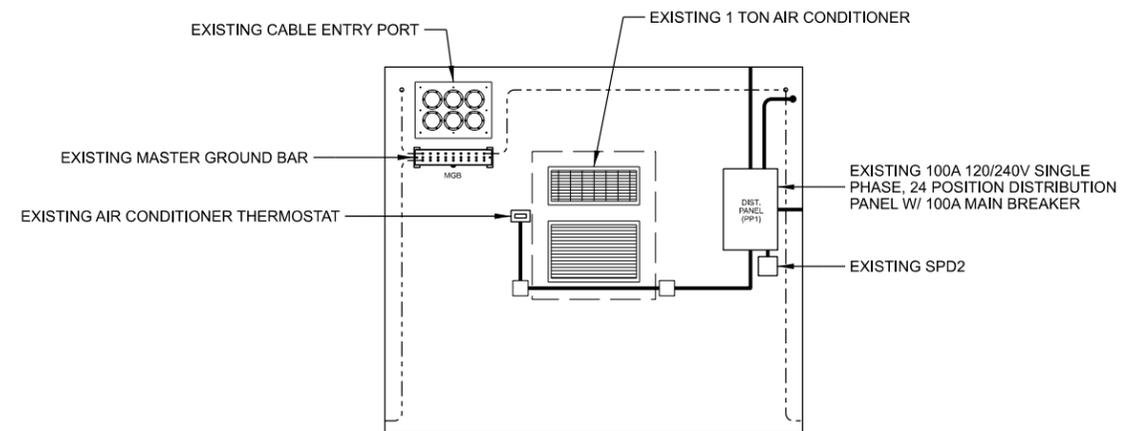
A INTERIOR ELEVATION
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"



B INTERIOR ELEVATION
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"



C INTERIOR ELEVATION
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"



D INTERIOR ELEVATION
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"

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SHELTER ELEVATIONS: INTERIOR
IXONIA (27652)
IXONIA, WISCONSIN

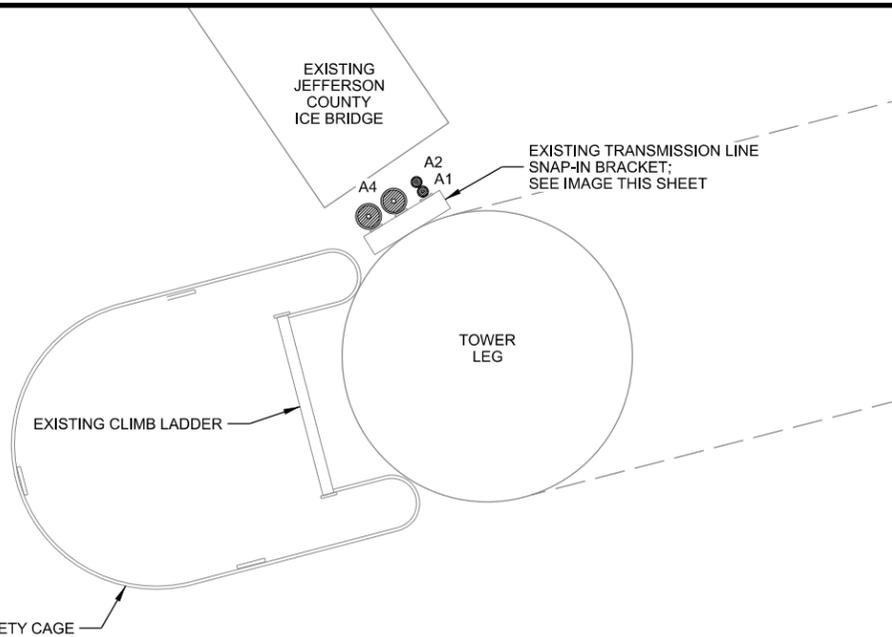
SUBMITTAL:

INT.	DATE:	DESCRIPTION:

CHECKED BY:	AJO
PLOT DATE:	5/12/2021
PROJECT NUMBER:	27652
SET TYPE:	BD
SHEET NUMBER:	A-202

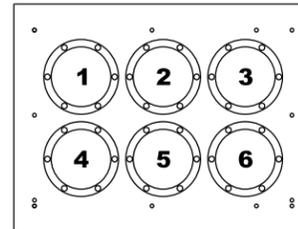
LEGEND: (THIS SHEET)

SIZE	SYMBOL	O.D.	MIN. BEND RAD.
1-5/8"		1.98"	20"
1-1/4"		1.55"	15"
7/8"		1.09"	10"
1/2"		0.63"	5"
CAT5		0.35"	3"
EW63		2"x1.16"	20"
EWP90-107		1.3"x0.8"	13"
LMR-400		0.4"	1"



- NOTES:
- REFER TO SHEET T-201 FOR ANTENNA ID REFERENCE AND LADDER INSTALLATION LOCATION.
 - DOUBLE STACKING OF 1-5/8" AND TRIPLE STACKING OF 7/8" COAX IS ALLOWED.
 - DOUBLE STACKING OF WAVEGUIDE IS ALLOWED WHEN USING CUSHION TYPE SNAP IN HANGERS.
 - GROUP LINES WITHIN LADDERS FOR SIMILAR TERMINATION LEVEL. SEPARATE WAVEGUIDE FROM COAX.
 - PROVIDE & INSTALL PROPERLY SIZED SNAP-INS FOR EACH COAX.
 - TOWER LOADING DESIGN SHALL ASSUME (3) COAX LADDERS INSTALLED

A TRANSMISSION LINE LADDER ROUTING

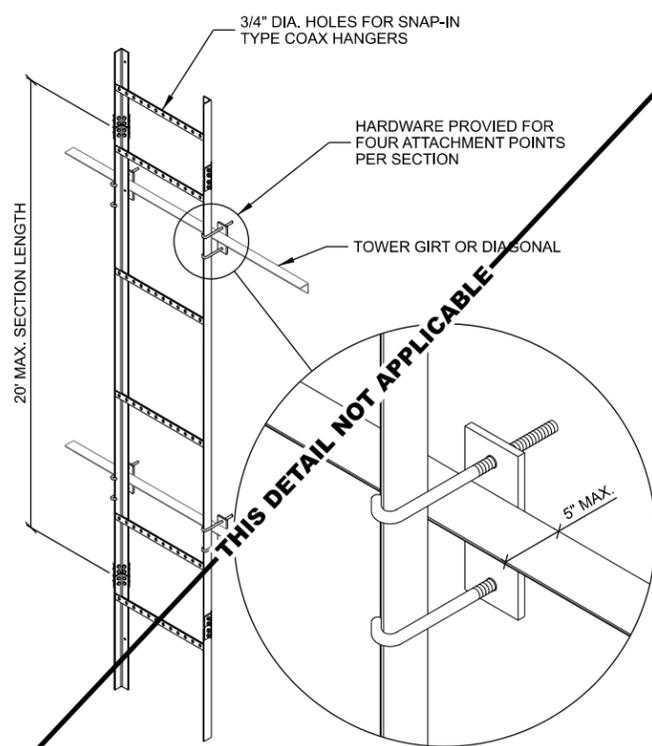


ENTRY PANEL PORT ASSIGNMENT			
PORT #	ANTENNA ID	ANTENNA SYSTEM	(QTY.) CABLE SIZE
1	A1 & A2	MW DISH	(2) 3/8"
2	A4	DIPOLE	(2) 7/8"
3			
4			
5			
6			

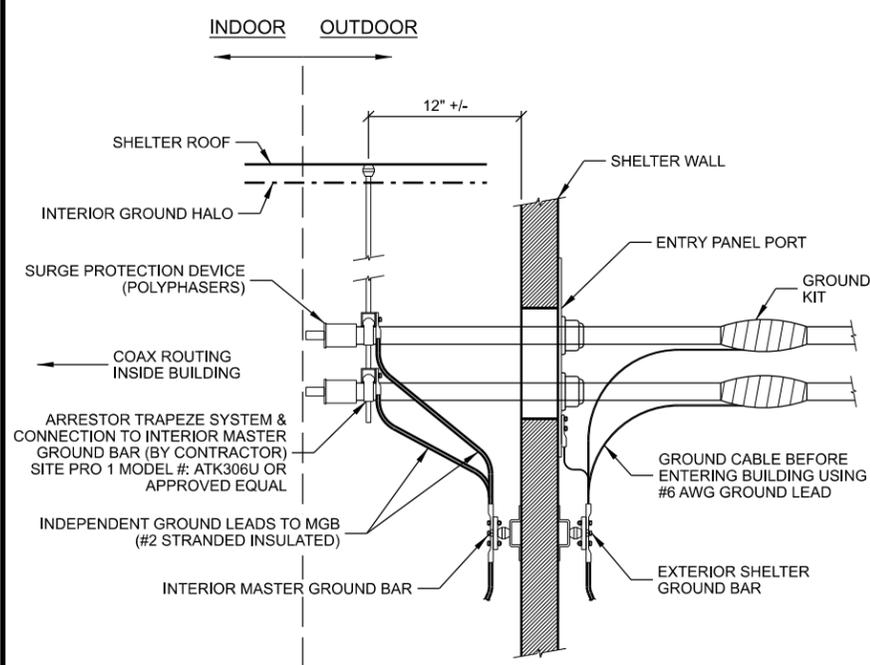
- NOTES:
- REFER TO SHEET T-201 FOR ANTENNA ID REFERENCE
 - PORT OPENINGS ARE 4" DIA UNLESS OTHERWISE NOTED.
 - PROVIDE AND INSTALL PROPERLY SIZED BOOTS, CUSHIONS AND PLUGS FOR EACH PORT OPENING INSIDE AND OUTSIDE OF SHELTER.
 - ALL UNUSED PORTS ON ALL ENTRY PANELS TO BE CAPPED & SECURED IN PLACE W/ BLACK CABLE TIE.

B ENTRY PANEL ROUTING

****TRANSMISSION LINE INSTALLATION BY OTHERS****
NOT PART OF CONTRACT



C VERTICAL TRANSMISSION LINE LADDER



D CABLE ENTRY



E EXISTING TRANSMISSION LINE SNAP-IN BRACKET

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TRANSMISSION LINE INSTALLATION DETAILS
 IXONIA (27652)
 IXONIA, WISCONSIN

SUBMITTAL:

INT.	DATE	DESCRIPTION

CHECKED BY	AJO
PLOT DATE	5/12/2021
PROJECT NUMBER	27652
SET TYPE	BD
SHEET NUMBER	T-501

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GROUNDING LEGEND: (THIS SHEET)

-  GROUND TEST WELL, SEE E-502 FOR DETAILS
-  COPPER CLAD GROUND ROD, (5/8" DIA. x 10' LONG)
SPACE @ 2X GROUND ROD LENGTH (20' O.C. MAX., 6' MIN.)
-  COPPER PLATE, (18" x 18" x 0.032" THK)
SPACE @ 2X GROUND ROD LENGTH (20' O.C. MAX., 6' MIN.)
-  EXOTHERMIC OR UL RATED IRREVERSIBLE CONNECTION
(CADWELD OR HYGROUND)
-  MECHANICAL CONNECTION
(BURNDY 2-HOLE LUG OR APPROVED EQUAL)
-  #2 AWG BARE SOLID TINNED COPPER CONDUCTOR
IN STANDARD GROUND TRENCH, SEE E-502 FOR DETAILS
-  #2/0 AWG BARE STRANDED TINNED COPPER CONDUCTOR
IN STANDARD GROUND TRENCH, SEE E-502 FOR DETAILS
-  #2 AWG BARE SOLID TINNED COPPER CONDUCTOR
IN ENHANCED GROUND TRENCH, SEE E-502 FOR DETAILS

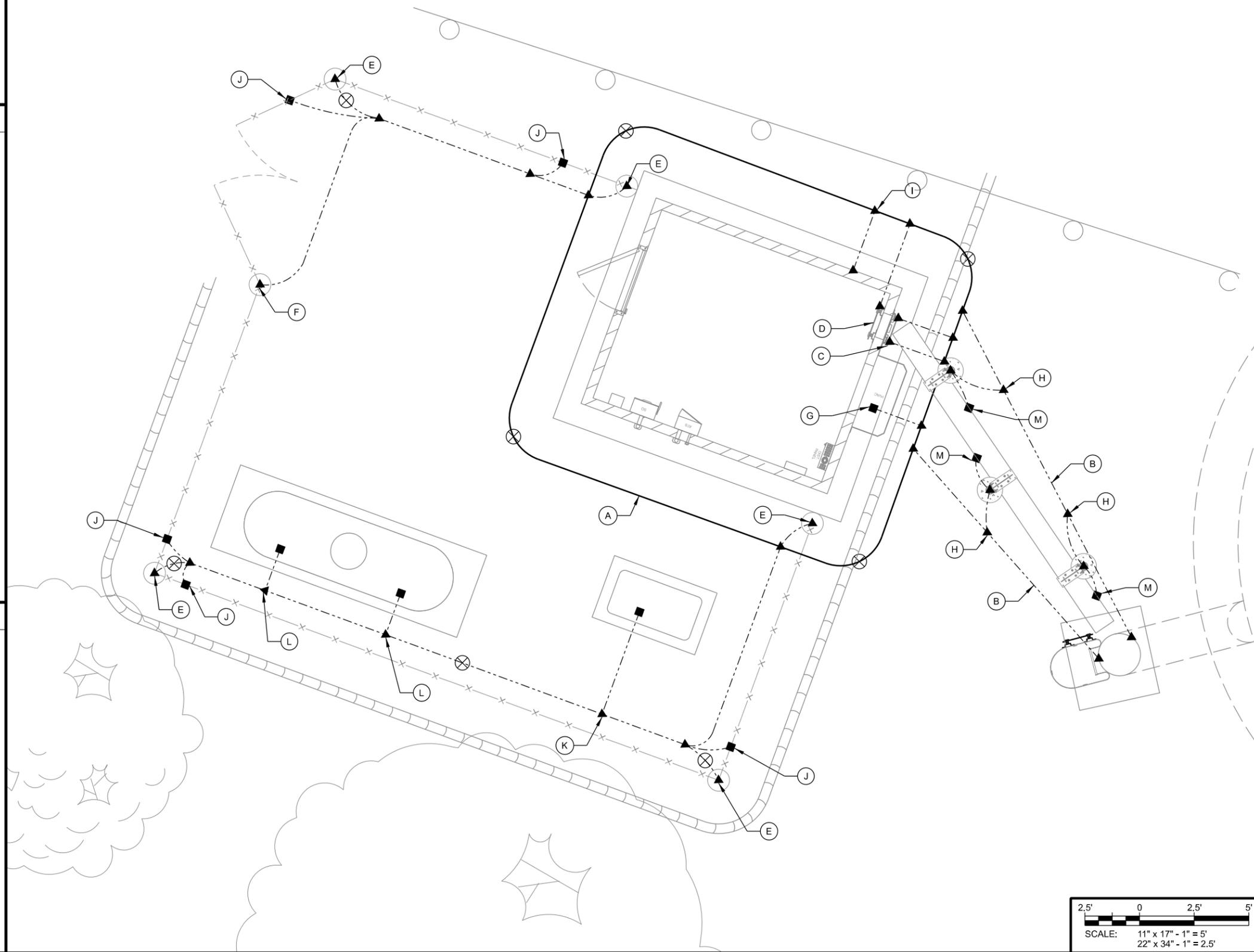


KEYNOTES: (THIS SHEET)

- A. SHELTER GROUND RING, MAINTAIN 2' SEPARATION FROM SHELTER FOUNDATION
- B. WATER TANK BASE PLATE, (2) LEADS TO SHELTER GROUND RING
- C. EXTERIOR SHELTER GROUND BAR, (2) LEADS TO SHELTER GROUND RING
- D. EXISTING INTERIOR SHELTER GROUND BAR (MGB), (1) LEAD TO SHELTER GROUND RING
- E. FENCE CORNER POST GROUND, SEE E-502 FOR DETAILS
- F. FENCE GATE GROUND, SEE E-502 FOR DETAILS
- G. SHELTER EXTERIOR AC UNIT GROUND
- H. ICE BRIDGE/UTILITY POST GROUND. SEE E-501 FOR DETAILS
- I. SHELTER STEEL FRAMING GROUND
- J. FENCE FABRIC & DETERRENT WIRING BONDING, SEE E-502 FOR DETAILS
- K. GROUND GENERATOR ENCLOSURE, (1) LEAD
- L. GROUND LP TANK, EACH LEG
- M. ICE BRIDGE SECTION TO POST GROUNDS; SEE E-501 FOR DETAILS

GENERAL NOTES: (THIS SHEET)

1. ALL EXTERIOR GROUNDING SHALL MEET OR EXCEED THE CURRENT HARRIS SITE GROUNDING AND LIGHTNING PROTECTION GUIDELINES. REFER TO INSTALLATION MANUAL AE/LZT 123 4618/1 REV F (JUNE 2017).
2. THE GROUNDING SYSTEM & CONDUCTORS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACK FILLING. SYSTEM SHALL PROVIDE 3 OHM OR LESS RESISTANCE UPON COMPLETION.
3. ALL NON-INSULATED GROUND LEADS EXTENDING ABOVE GROUND LEVEL SHALL BE ENCASED IN 1/2" PVC & SEALED WITH SILICONE.
4. GROUND RINGS & TOP OF RODS SHALL BE INSTALLED AT 30" BELOW FINISHED GRADE. (SEE DETAIL A/E-501)
5. INSTALL 18"x18" COPPER PLATES IN LIEU OF GROUND RODS WHEN INSTALLING OVER TOWER FOUNDATION OR WHERE DRIVING GROUND RODS IS NOT FEASIBLE. REFER TO GEOTECH REPORT FOR SOIL CONDITIONS.
6. ALL MECHANICAL CONNECTIONS SHALL INCLUDE ANTI-OXIDANT COMPOUND BETWEEN LUG & CONNECTION POINT. USE COPPER ANTI-OXIDANT FOR COPPER TO COPPER CONNECTION ALL ABOVE GRADE CADWELD CONNECTIONS (TO GALVANIZED ITEMS) SHALL BE SPRAYED WITH COLD GALVANIZING COMPOUND TO PREVENT CORROSION.
7. ALL MECHANICAL GROUND CONNECTIONS TO UTILIZE TWO HOLE LUGS, STAINLESS STEEL HARDWARE AND "NO-OX" COMPOUND ON CONNECTIONS. SELF TAPPING SCREWS ARE NOT ALLOWED.



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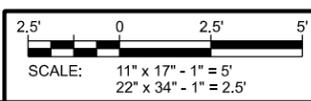


**GROUNDING PLAN
 IXONIA (27652)
 IXONIA, WISCONSIN**

SUBMITTAL:

INT.	DATE	DESCRIPTION:

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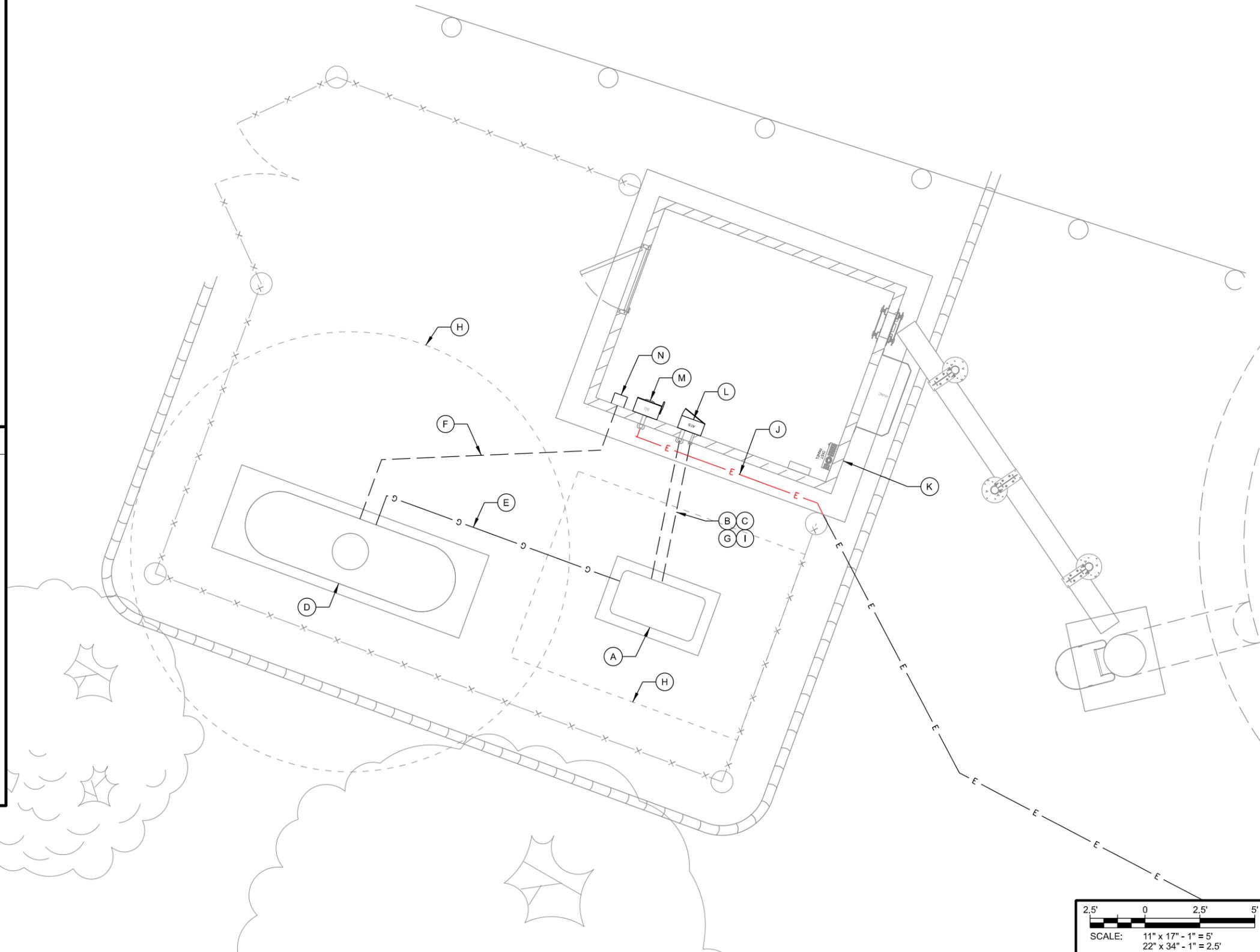
KEYNOTES: (THIS SHEET)

- A. 22 KW GENERATOR ON CONCRETE SUPPORT SLAB; PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR; SEE C-504 FOR DETAILS
- B. GENERATOR AC ELECTRIC; (1) 2" CONDUIT.
- C. GENERATOR CONTROL & ALARM; (1) 1" CONDUIT.
- D. 500 GAL. LP TANK, SEE C-504 FOR DETAILS
- E. LP FUEL LINE, SEE E-505 FOR DETAILS
- F. REMOTE LP FUEL TANK LEVEL MONITOR CONDUIT; (1) 1" CONDUIT
- G. STUB ALL CONDUITS ON OUTSIDE OF CONCRETE FOUNDATION. ALL OUTSIDE BUILDING PENETRATIONS TO BE WEATHERPROOF LB. SEE E-503 FOR DETAILS
- H. UTILITY SETBACK / CLEARANCES. 3' AROUND GENERATOR. 10' AROUND LP TANK VALVE
- I. CONTRACTOR TO COORDINATE CONDUIT STUB UP LOCATIONS WITH OWNER.
- J. MODIFY & RE-ROUTE EXISTING ELECTRIC SERVICE TO NEW SERVICE DISCONNECT.
- K. ABANDON & REMOVE EXISTING ELECTRIC SERVICE OUTSIDE OF SHELTER
- L. 200A AUTOMATIC TRANSFER SWITCH (ATS) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR
- M. 100A SERVICE DISCONNECT
- N. REMOTE LP FUEL TANK LEVEL MONITOR BY CONTRACTOR



GENERAL NOTES: (THIS SHEET)

1. CONTRACTOR SHALL FIELD VERIFY DEPTHS, LOCATIONS, & SIZES OF ALL EXISTING UTILITIES.
2. ALL UTILITIES SHALL BE INSTALLED ACCORDING TO STATE AND LOCAL REQUIREMENTS.
3. ALL ELECTRICAL WORK SHALL CONFORM TO NATIONAL, STATE, AND LOCAL CODES.
4. ALL UNDERGROUND TRENCHING, PIPE AND CONDUIT INSTALLATION TO BE COMPLETED PRIOR TO FINAL SUBGRADE COMPACTION AND AGGREGATE INSTALLATION.
5. ALL CONDUCTORS TO BE COPPER.
6. ALL UNDERGROUND ELECTRICAL & TELCO CONDUITS TO BE SCH. 80 PVC UNLESS OTHERWISE REQUIRED BY THE UTILITY PROVIDER.
7. ALL OUTDOOR ABOVE GROUND EXPOSED ELECTRICAL CONDUITS, ALL CONDUIT STUB UPS AND ANY OUTDOOR/BELOW GRADE CONDUIT TO BE SCH 80 PVC.
8. REFERENCE MANUFACTURER AND CATALOG NUMBERS ARE USED FOR QUALITY AND PERFORMANCE ONLY. EQUIPMENT MFR. BY OTHERS ARE EQUALLY ACCEPTABLE PROVIDED THEY MEET OR EXCEED THE SPEC.
9. PROVIDE AND INSTALL ALL NECESSARY WIRING AND CONDUITS FROM EXTERIOR ELECTRICAL ITEMS TO DISTRIBUTION PANEL WITHIN EQUIPMENT BUILDING.
10. ALL CONDUIT STUBS IN BUILDINGS & PULL BOXES TO BE IDENTIFIED AND LABELED.
11. PROVIDE PULL STRINGS IN ALL CONDUITS.
12. ALL INDOOR EXPOSED CONDUIT TO BE METALLIC (EMT OR RGS).
13. SEE E-503 FOR CONDUIT INSTALLATION REQUIREMENTS.



CONSULTANT:



CLIENT:

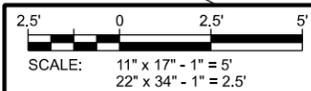


**UTILITY PLAN
IXONIA (27652)
IXONIA, WISCONSIN**

SUBMITTAL:

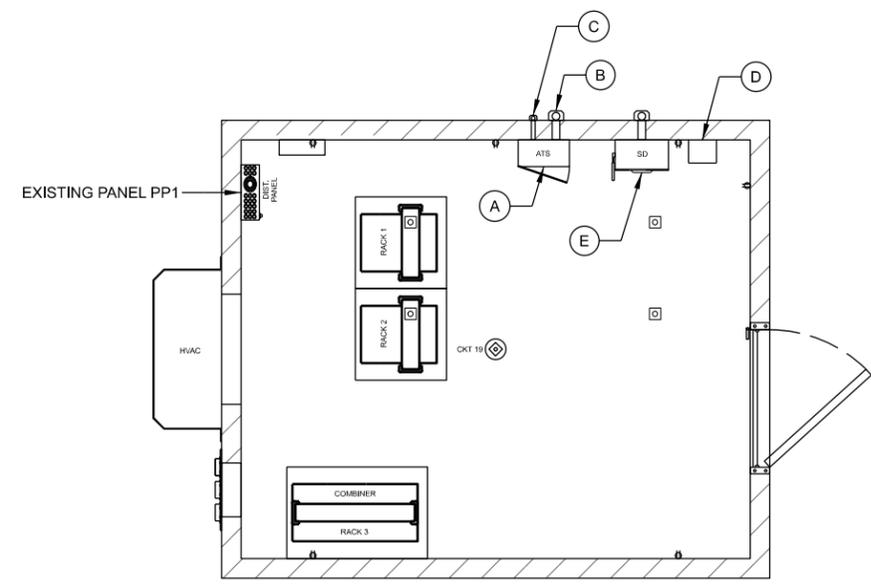
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CHECKED BY:	AJO
PLOT DATE:	5/12/2021
PROJECT NUMBER:	27652
SET TYPE:	BD
SHEET NUMBER:	E-102

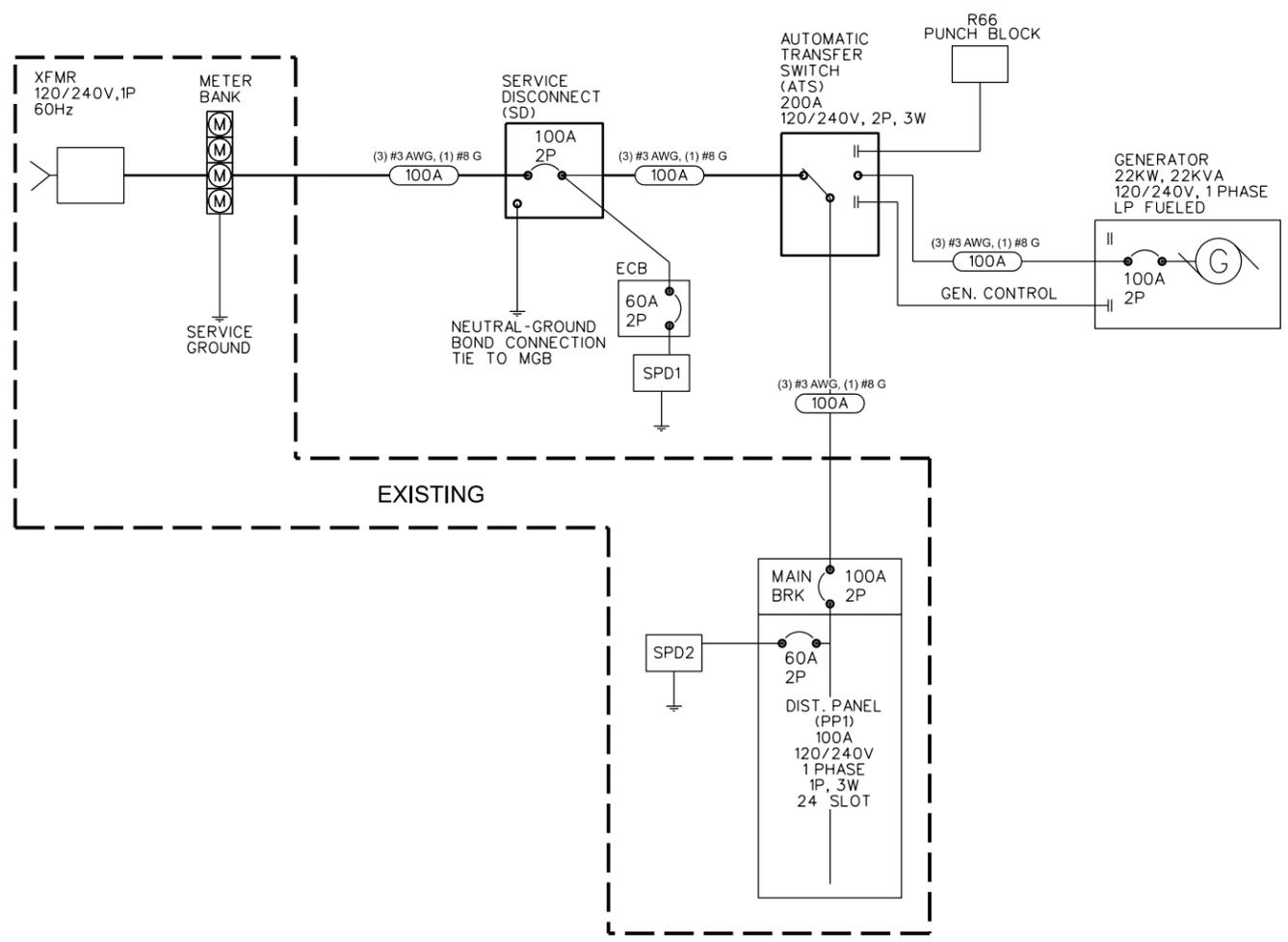


- KEYNOTES: (THIS SHEET)**
- A. AUTOMATIC TRANSFER SWITCH (ATS)
200A GENERAC (30"Hx13.5"Wx7"D)
PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR
 - B. GENERATOR A/C POWER FEED
 - C. GENERATOR CONTROL WIRING FEED
 - D. LP TANK LEVEL MONITOR RECEPTACLE
 - E. 100A SERVICE DISCONNECT, 60A DISCONNECT & SPD1

- GENERAL NOTES: (THIS SHEET)**
1. ALL ELECTRICAL WORK SHALL CONFORM TO NATIONAL, STATE AND LOCAL CODES.
 2. ALL WIRE AND CONDUIT SIZES SPECIFIED ARE MINIMUMS. LARGER SIZES MAY BE REQUIRED BY CODE. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND CODE REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 3. ALL CONDUCTORS SHALL BE COPPER.
 4. ALL INDOOR RACEWAY TO BE EMT OR RGS. EMT INSTALLATIONS SHALL UTILIZE COMPRESSION FITTINGS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY WIRING AND CONDUITS FROM ELECTRICAL DEVICES REQUIRED ON PROJECT TO THE DISTRIBUTION PANELS.
 5. ALL ELECTRICAL WORK SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER ELECTRICIAN.
 6. CONTRACTOR SHALL PERFORM AN INSPECTION OF THE EXISTING ELECTRICAL EQUIPMENT AND INSTALLATION WITHIN THE PRE-MANUFACTURED BUILDING PROVIDED BY THE OWNER FOR CONFORMANCE WITH STATE AND LOCAL ELECTRICAL CODE. ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER OF ANY NON-CONFORMING ITEMS.



A SHELTER ELECTRICAL PLAN
SCALE: 11" x 17" - 1/4" = 1'-0"
22" x 34" - 1/2" = 1'-0"



B ELECTRICAL ONE LINE DIAGRAM
SCALE: 11" x 17" - NTS
22" x 34" - NTS

DIST. PANEL (PP1)	PHASE/WIRE				BUS SIZE		MAIN LUGS				AIC RATING
	WIRE	POLE	TRIP	CKT #	A	B	CKT #	TRIP	POLE	WIRE	LOAD
120/240VAC											10,000
LOAD											
Lights	12	1	20	1							
Outlets	12	1	20	3			2	30	2	8	HVAC
Outlets	12	1	20	5			4	-	-	-	
Twist Lock	12	1	20	7			6	20	2	-	Power Fail
Twist Lock	12	1	20	9			8	-	-	-	
Twist Lock	12	1	20	11			10	-	-	-	SPARE
Twist Lock	12	1	20	13			12	-	-	-	SPARE
GFCI	12	1	20	15			14	-	-	-	SPARE
Smoke Detector	12	1	20	17			16	-	-	-	SPARE
SPARE	-	-	-	19			18	-	-	-	SPARE
SPARE	-	-	-	21			20	-	-	-	SPARE
SPARE	-	-	-	23			22	60	2	6	Surge Arrestor
							24	-	-	-	

C ELECTRIC DISTRIBUTION PANEL DIRECTORY
SCALE: 11" x 17" - NTS
22" x 34" - NTS

CONSULTANT:
Edge
Consulting Engineers, Inc.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
608.644.1449 VOICE
608.644.1549 FAX
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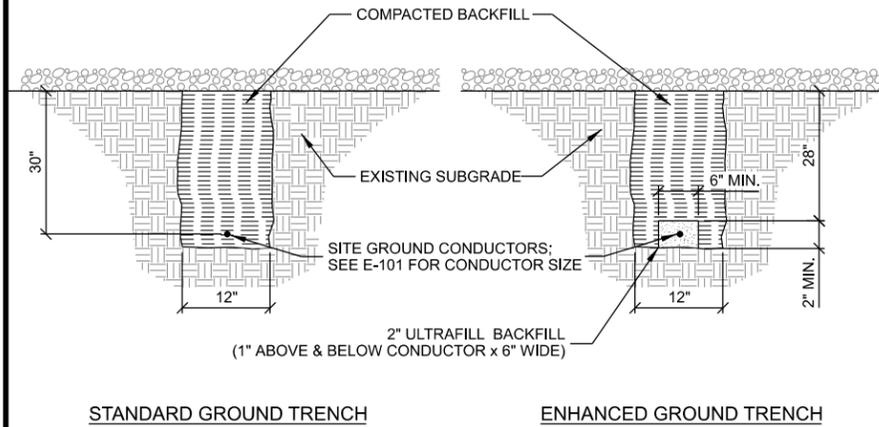
SHELTER ELECTRICAL PLAN
IXONIA (27652)
IXONIA, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:

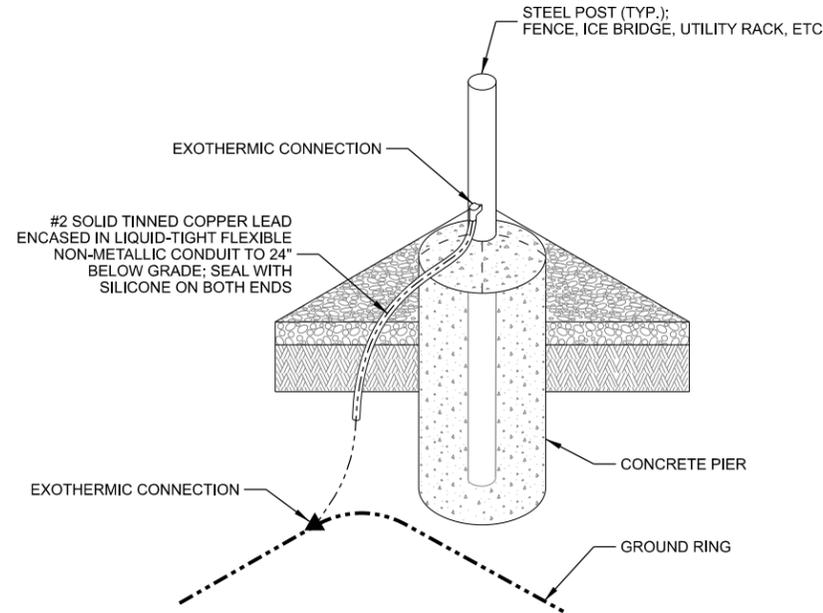
CHECKED BY:	AJO
PLOT DATE:	5/12/2021
PROJECT NUMBER:	27652
SET TYPE:	BD
SHEET NUMBER:	E-104

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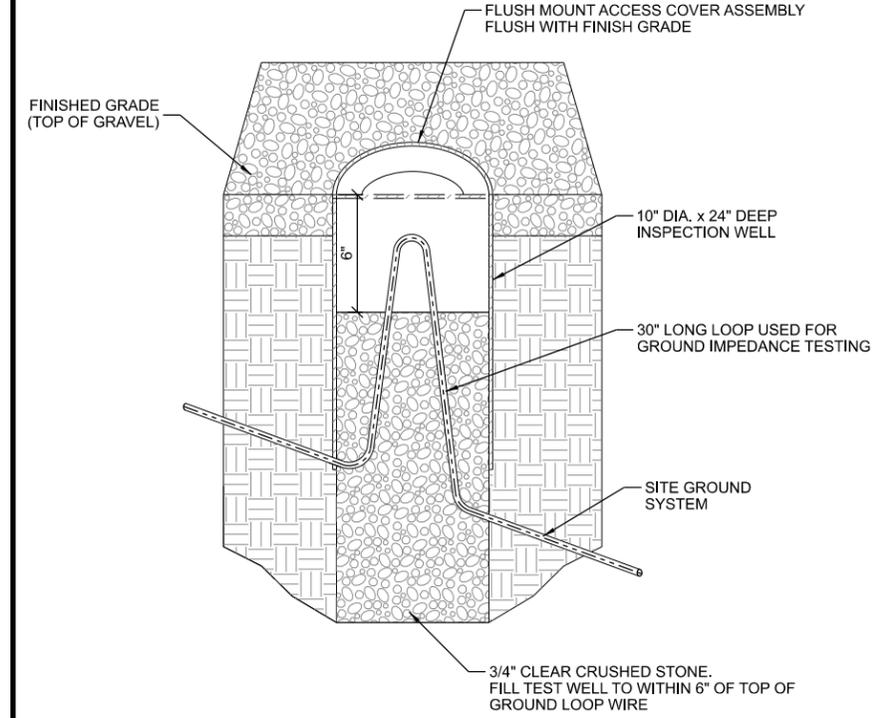


NOTES:
 1. GROUNDING TRENCHES TO BE BACK FILLED WITH NATIVE SOIL.
 2. COMPACT BACK FILL TO 95% MODIFIED PROCTOR.

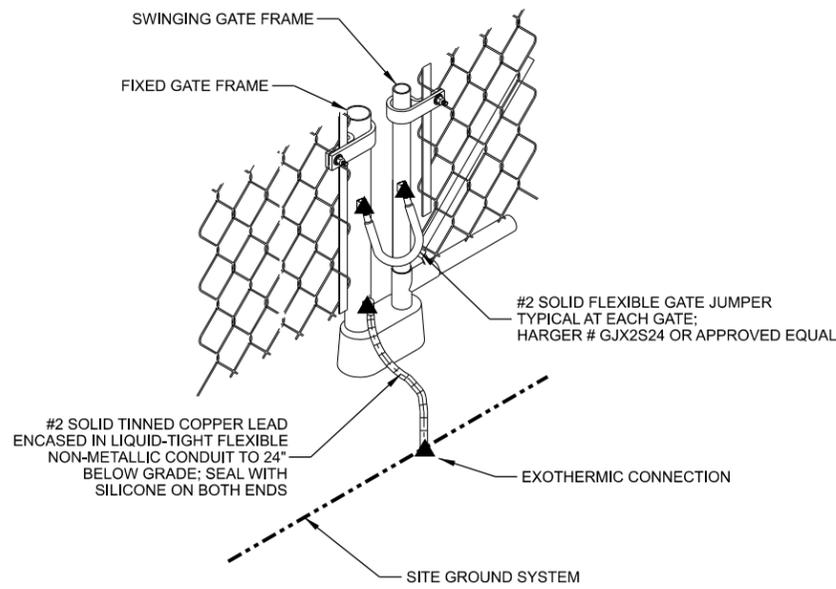
A GROUNDING TRENCH



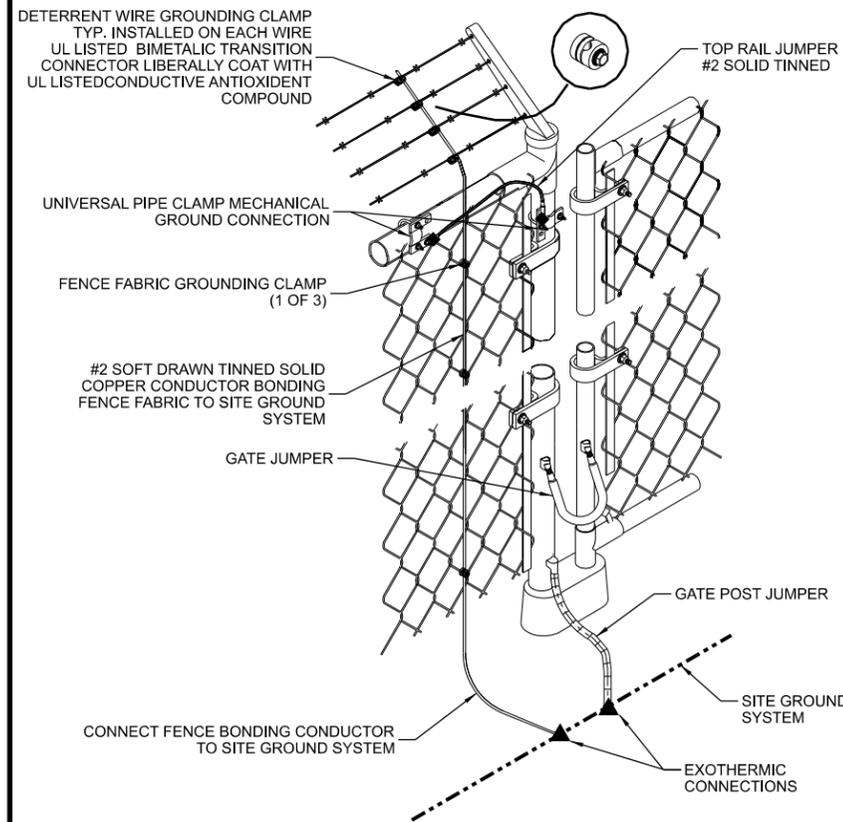
B STEEL POST GROUNDING



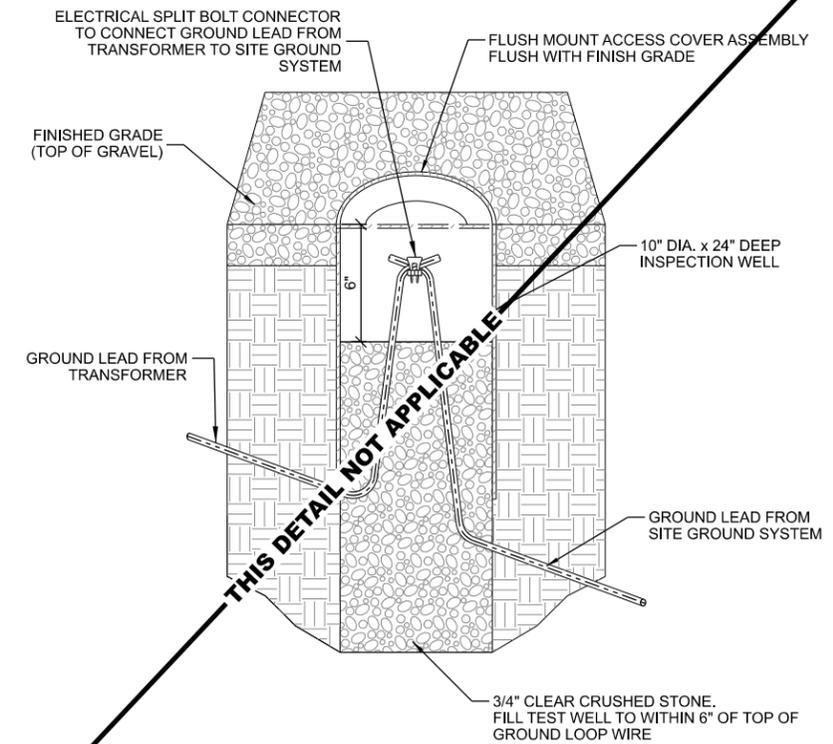
C GROUND TEST WELL



D FENCE GATE GROUNDING



E FENCE FABRIC AND DETERRENT WIRING BONDING



F TRANSFORMER GROUND DISCONNECT

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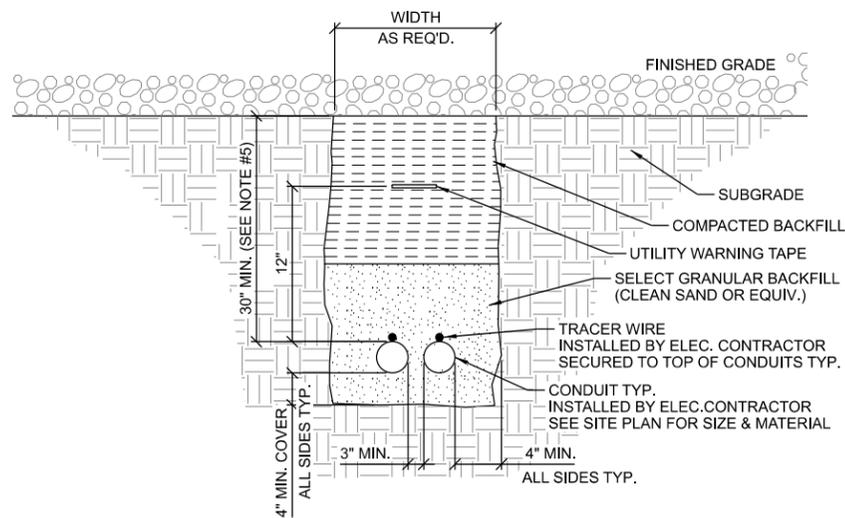
GROUNDING DETAILS
 IXONIA (27652)
 IXONIA, WISCONSIN

SUBMITTAL:

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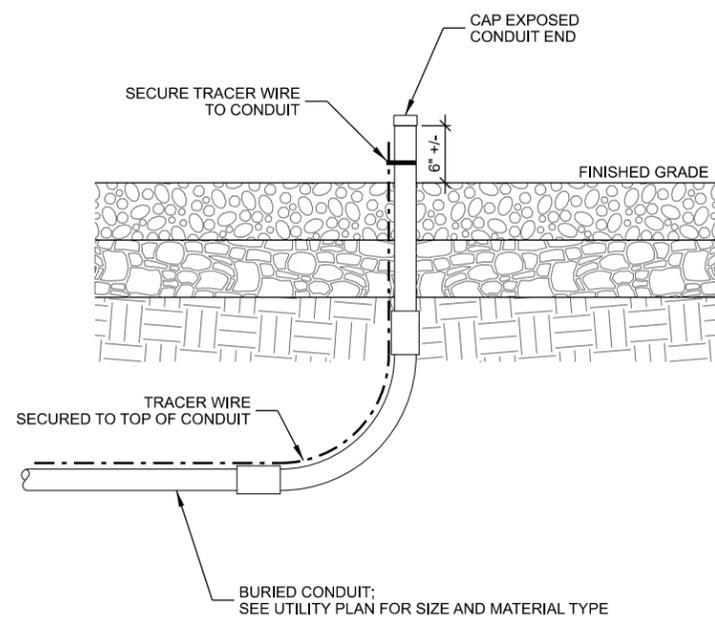
CHECKED BY:	AJO
PLOT DATE:	5/12/2021
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SHEET NUMBER:	E-502

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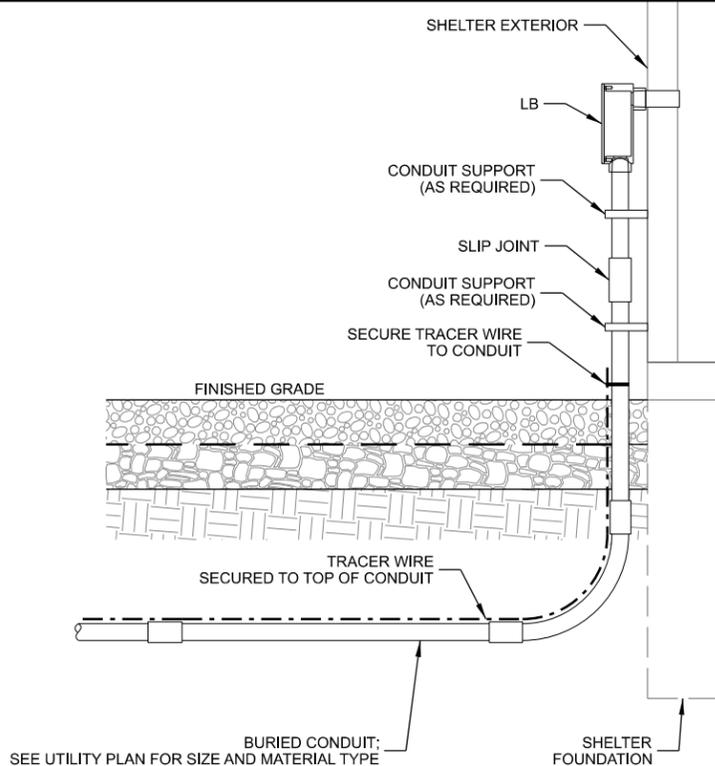


- NOTES:
1. ALL CONDUITS TO BE EQUIPPED W/ PULL CORDS & CAPPED FOR FUTURE LINE PULLS. NO DUCT TAPE CAPS ALLOWED
 2. WARNING TAPE TO RUN CONTINUOUSLY ALONG THE ENTIRE CONDUIT LENGTH. INSTALL TAPE 12" ABOVE THE TOP OF THE CONDUITS.
 3. TRACER WIRE TO BE 14 GA. SOLID COPPER WIRE WITH CORROSION PROTECTIVE COATING. SECURE TO TOP OF CONDUIT AND RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH. EXTEND TO GRADE AT BOTH ENDS - LOOP AND WRAP AROUND APPROPRIATE CONDUIT.
 4. CONTRACTOR TO CHECK CONTINUITY OF TRACER WIRE BEFORE AND AFTER BURIAL.
 5. VERIFY CONDUIT DEPTH REQUIREMENTS WITH LOCAL UTILITY PROVIDER.

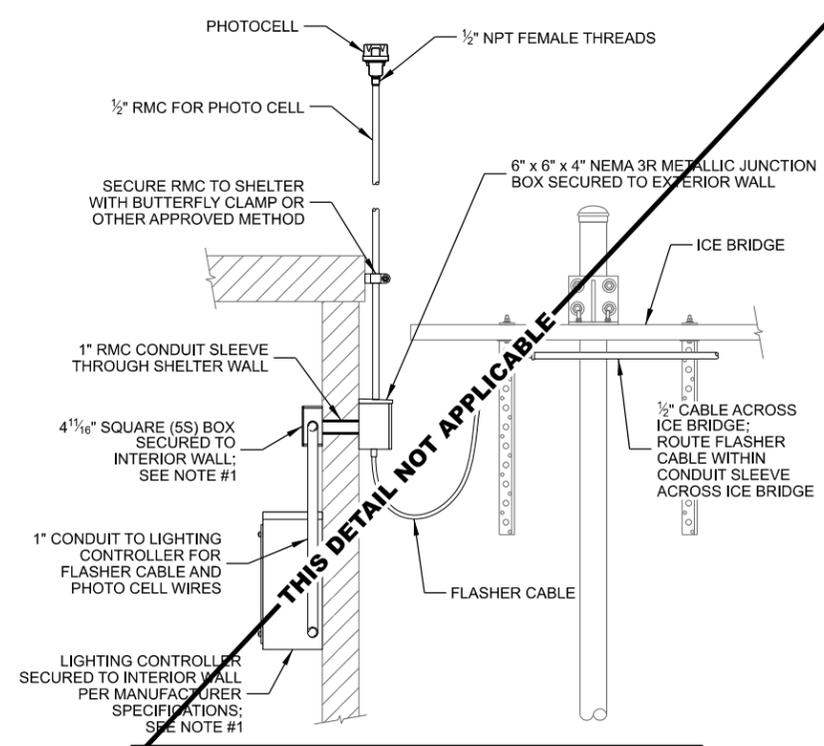
A UTILITY TRENCH



B CONDUIT STUB-UP



C CONDUIT STUB-UP AT SHELTER



- NOTES:
1. PROVIDE GROUND BOND FROM LIGHTING CONTROLLER BOX AND INTERIOR JUNCTION BOX TO INTERIOR GROUND HALO SYSTEM.

D TOWER LIGHTING INSTALLATION

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UTILITY DETAILS
 IXONIA (27652)
 IXONIA, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:

CHECKED BY:	AJO
PLOT DATE:	5/12/2021
PROJECT NUMBER:	27652
SET TYPE:	BD
SHEET NUMBER:	E-504