Service Center North Fuel Island Replacement

Bid # 23-49

ADDENDUM No. 1

November 6, 2023

Any and all changes to the Contract Document are valid only if they are included by written addendum to all potential respondents, which will be mailed, emailed and/or faxed prior to the bid due date to all who are known to have received a complete bid document. Each respondent must acknowledge receipt of any addenda by indicating on the Bid Form. Each respondent, by acknowledging receipt of any addenda, is responsible for the contents of the addenda and any changes to the bid proposal therein. Failure to acknowledge receipt of any addenda may cause the bid to be rejected. If any language or figures contained in this addendum are in conflict with the original document, this addendum shall prevail.

This addendum consists of the following:

1. Addendum Number One (1) is attached and consists of a total of twelve (12) pages including this cover sheet. Any changes to the drawings or specifications noted within Addendum Number One (1) will be reflected in subsequent drawing issues.

Please feel free to call (847-866-2910) or email (lithomas@cityofevanston.org) with any questions or comments.

Sincerely,

Linda Thomas
Purchasing Specialist

Service Center North Fuel Island Replacement

Bid # 23-49

ADDENDUM No. 1

November 6, 2023

This addendum forms a part of the Specifications and Bid Documents for Bid #23-49 and modifies these documents. This addendum consists of the following:

Vendor Questions:

1. The product piping spec'd is Perma Pipe Inc. only. We are not very familiar with this brand as an industry standard. We typically use OPW Flexworks or FE Petro XP Flexible piping systems or Ameron LCX double wall rigid fiberglass piping for product and Ameron single wall piping for tank venting.

   The City is open to considering alternate piping products. Please refer to Section 01 63 00 Substitutions and Product Options for details on proposing substitutions Prior to Bid Opening, With Bid, and After Award of Contract.

2. One the drawing M06 it shows ¾" plywood sheeting. We have never installed plywood in this area and I believe this is not approved with the State Fire Marshal's office. We would use in this application a Slide Rail Shoring system which is removed once tanks are in and backfilled. We will place filter fabric on the tank bottom and side walls prior to backfill to prevent migration of outside soil/stone.

   The City is open to considering alternate installation methods. Please refer to Section 01 63 00 Substitutions and Product Options for details on proposing substitutions Prior to Bid Opening, With Bid, and After Award of Contract.

3. Also on Drawing M06 it shows installing a concrete anchoring pad. The industry does not do this as a standard any more due to additional cost for labor and materials to install it. This also takes longer to perform. Now we use preformed concrete dead men system that is provided by both specified tank manufactures. They are placed along side of the tanks and then anchored to the dead men with their tank straps and turnbuckle system. This saves a lot of install time on the install.

   The City is open to considering alternate anchoring methods that reduce installation time and cost. Please refer to Section 01 63 00 Substitutions and Product Options for details on proposing substitutions Prior to Bid Opening, With Bid, and After Award of Contract.

4. On Drawing S03 and S04 it shows the canopy columns to be anchored above the top of the island form concrete. Normally we use around a 1'-2" subset under finished grade so the anchor bolts are not exposed and provide and trip hazard.

   General Note 2 on DWG S03 and Detail 1 on DWG S04 indicates the column and footing details are to be determined by the Contractor and the canopy vendor.

5. Are there any vehicles that are pre-2008 that wish to utilize the AIM RFID Nozzle tag readers?

   The intent is for the new fueling system to be equipped with nozzle readers, but the RFID vehicle modules are not part of the base bid and would be procured later if the City desires.

6. Please clarify if the City's RFP is requiring AIM RFID modules that plug into the vehicles OBDII as part of the base bid?

   The intent is for the new fueling system to be equipped with nozzle readers, but the RFID vehicle modules are not part of the base bid and would be procured later if the City desires.

7. How many AIM RFID module kits should be quoted as part of the base bid?

   The intent is for the new fueling system to be equipped with nozzle readers, but the RFID vehicle modules are not part of the base bid and would be procured later if the City desires.

8. Please specify the number of dual tank vehicles the City wishes to use AIM RFID with?

   The intent is for the new fueling system to be equipped with nozzle readers, but the RFID vehicle modules are not part of the base bid and would be procured later if the City desires.

9. The RFP states a 24 month Mfg warranty rather than the standard 1 year warranty for the Fuel Management System? To clarify, should the AIM RFID kits also be warranted for a period of 2 years?

   The intent is for the new fueling system to be equipped with nozzle readers, but the RFID vehicle modules are not part of the base bid and would be procured later if the City desires.

10. Does the City require a Cloud based system such as FM Live? If cloud is not required, does the city wish to see an option for a Cloud based fuel management system?

    A cloud based system is preferred. Ideally, the system should support single-sign-on (SSO).

11. Does the City desire a certain amount of Prokees (Chip keys)?

    The intent is for the system to utilize fob readers, not prokees/chip keys or prox cards. Five hundred (500) fob readers shall be provided in the base bid.

12. In addition to the prokees/chip keeys, does the city desire an HID prox card/fob reader for the fuel management system?

    The intent is for the system to utilize fob readers, not prokees/chip keys or prox cards.

13. How many total hoses will the FMU (Fuel Management Unit) need to control? Looks like 8 from the drawing but just want to confirm.

    Eight.

14. Does labor need to be included in the 2-year manufacturer warranty?

    A five (5) year warranty is desired (with labor included).

15. Under “Service Contract” you have 5 years listed for software, hardware, and labor but under fuel-management warranty you have 2 years listed. Can you please clarify if you are looking for a 2 year or a 5-year warranty for the fuel-management system? And does the 2- or 5-year warranty need to include labor for the fuel-management system?

    A five (5) year warranty is desired (with labor included).

Attached Drawing Updates:

- M03 Mechanical Plan – New Work
- M04 Diagrams
- M05 Schedules and Sections
- M06 Details
- E03 Electrical Power Plan
- E04 Electrical Schedules & Single Line Diagram

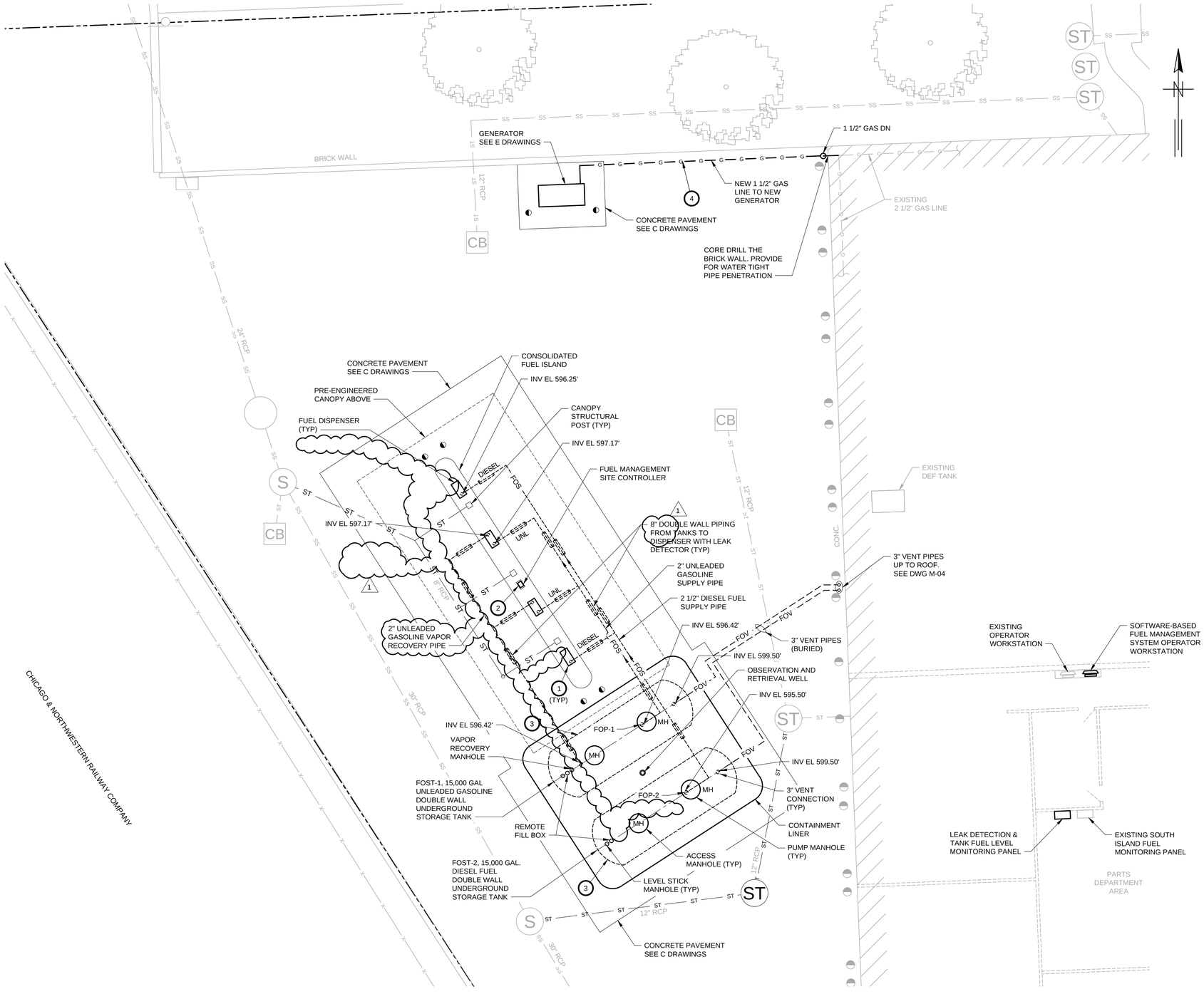
Other Attachments:

- The non-mandatory pre-bid meeting participant list is attached.

Note: Acknowledgment of this Addendum is required in the Bid.

NEW CONSTRUCTION KEY NOTES

1. INSTALL NEW FUEL DISPENSER (TYP OF 4)
2. INSTALL FUEL MANAGEMENT SITE CONTROLLER.
3. INSTALL FUEL OIL UNDERGROUND TANKS.
4. INSTALL NEW GAS LINE FOR NEW GENERATOR ALONG RETAINING BRICK WALL WITH SUPPORT AS REQUIRED 4 FEET ABOVE GRADE. COORDINATE WITH ELECTRICAL FOR CONNECTION AT GENERATOR.



MECHANICAL PLAN - NEW WORK

SCALE: 1" = 10'

NOTES:

1. CONTRACTOR TO VERIFY VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ROUTE ALL PIPING IN FIELD AS APPROVED BY THE AUTHORITY.
3. DEPTH OF BURY AS SHOWN AND APPROVED BY THE AUTHORITY.
4. SLOPE ALL PIPING TOWARD UNDERGROUND STORAGE TANKS.
5. PROVIDE DOUBLE ELBOW SWING JOINTS AT EACH CHANGE OF DIRECTION FOR ALL FUEL OIL PIPING.

BID SET

GREELEY AND HANSEN
A TYLin Company
100 SOUTH WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60606

DESIGNED	BW
DRAWN	GS
CHECKED	MD

MICHAEL A. DEBNAR 062.066817 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
SEAL AFFIXED OCT 6, 2023 EXP. 11-30-2023

NO.	DATE	APPD	REVISION DESCRIPTION
1	11/6/23	MD	ADDENDUM NO.1

SCALE: 10 0 10 20 FT — 1"=10'

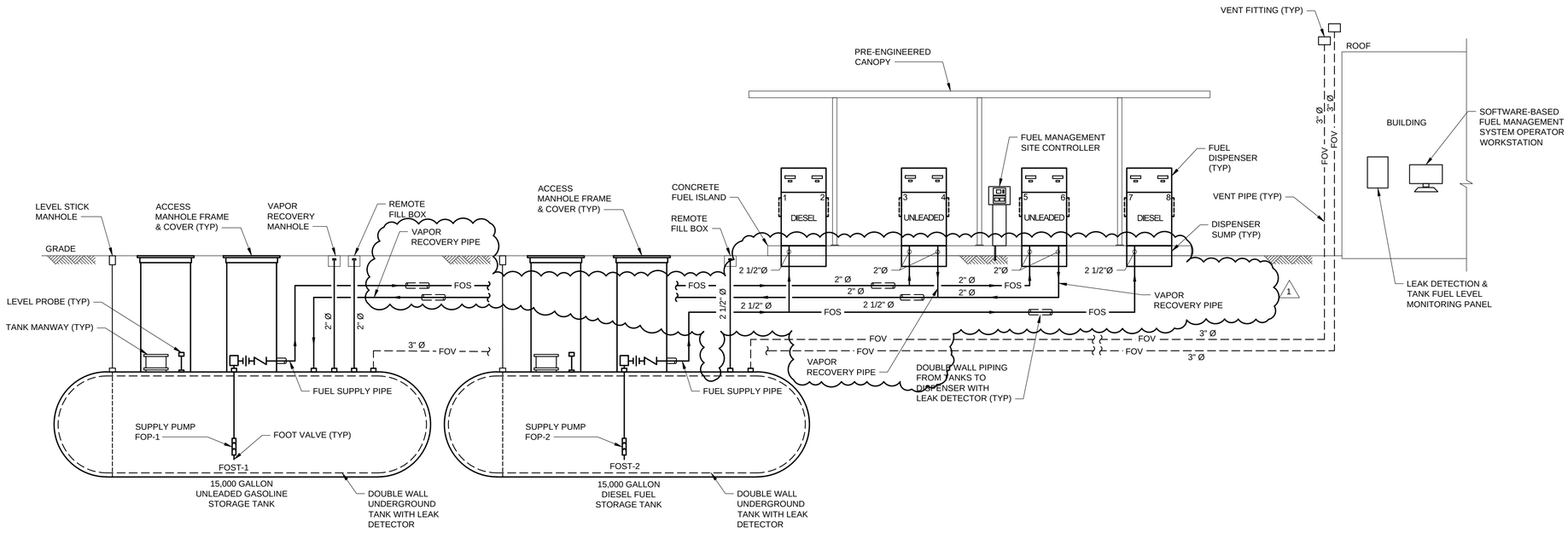
CITY OF EVANSTON, ILLINOIS

SERVICE CENTER
NORTH FUEL ISLAND REPLACEMENT

MECHANICAL

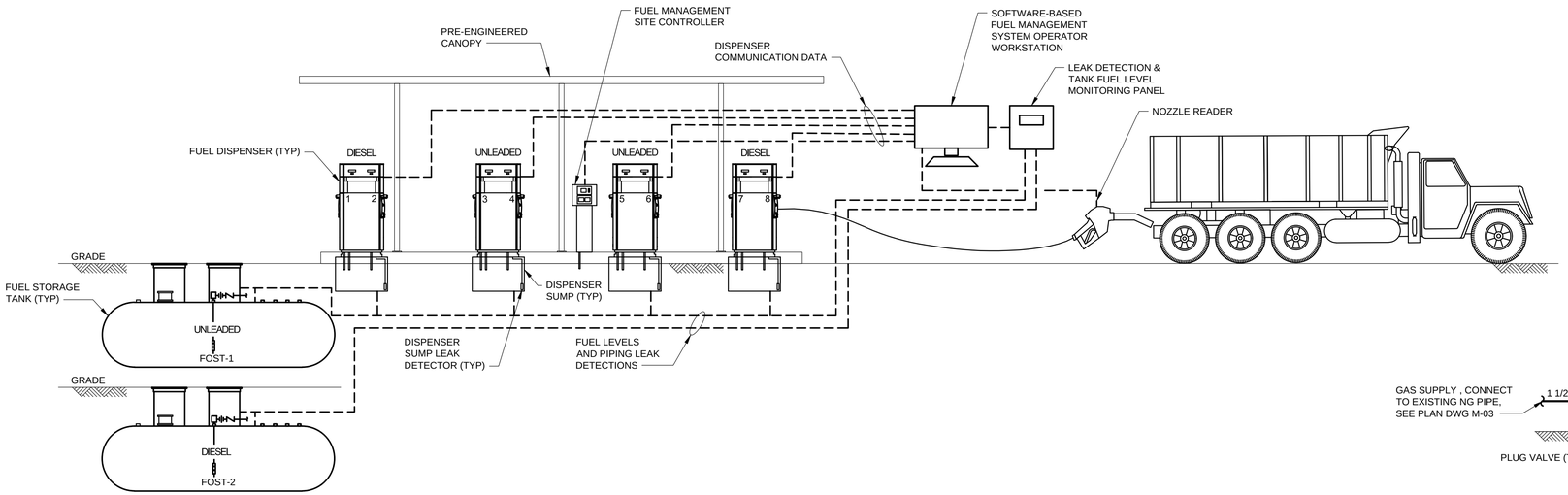
MECHANICAL PLAN - NEW WORK

PROJECT NO.: 00280
DWG: M03
SHEET: 13 OF 20
DATE: OCT 2023 REV: 0



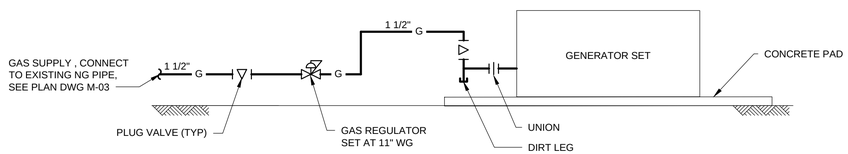
FUEL PIPING DIAGRAM

SCALE: NONE



FUEL MANAGEMENT SYSTEM DIAGRAM

SCALE: NONE



NATURAL GAS PIPING DIAGRAM

SCALE: NONE

BID SET

GREELEY AND HANSEN A TYLin Company 100 SOUTH WACKER DRIVE, SUITE 1400 CHICAGO, ILLINOIS 60606	DESIGNED BW DRAWN GS CHECKED MD	MICHAEL A. DEENEY 062.066817 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS SEAL AFFIXED OCT 6, 2023 EXP. 11-30-2023	NO.	DATE	APPD	REVISION DESCRIPTION	SCALE: NO SCALE CITY OF EVANSTON, ILLINOIS SERVICE CENTER NORTH FUEL ISLAND REPLACEMENT MECHANICAL DIAGRAMS PROJECT NO.: 00280 DWG: M04 SHEET: 14 OF 20 DATE: OCT 2023 REV: 0
			1	11/6/23	MD	ADDENDUM NO.1	

TANK

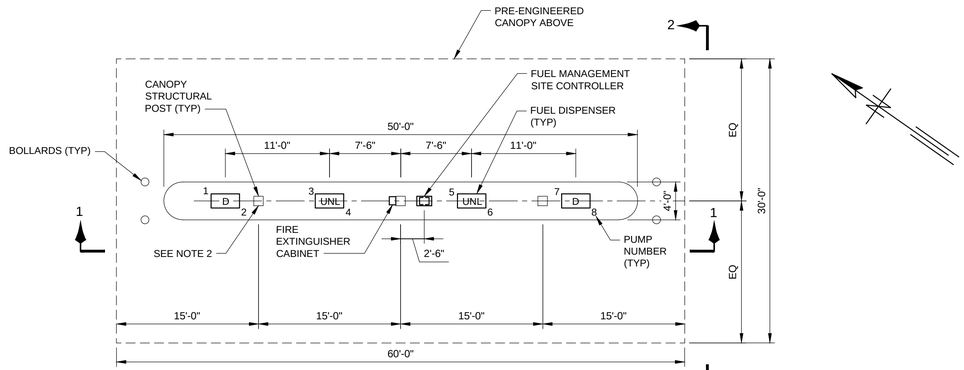
UNIT I.D.	LOCATION	SERVICE	CAPACITY (GAL.)	DIA. (FT)	LENGTH (FT)	MAX WORKING PRESSURE (PSIG)	MANUFACTURER MODEL NO.	REMARKS/NOTES
FOST-1	SERVICE CENTER NORTH FUEL ISLAND	UNLEADED	15,000	10'	30'	--	ZCL/XERXES	1,2,3
FOST-2	SERVICE CENTER NORTH FUEL ISLAND	DIESEL	15,000	10'	30'	--	ZCL/XERXES	1,2,3

NOTES: 1. FIBERGLASS 2. DOUBLE-WALL 3. UL 1316 UNDERGROUND STORAGE TANK

PUMPS

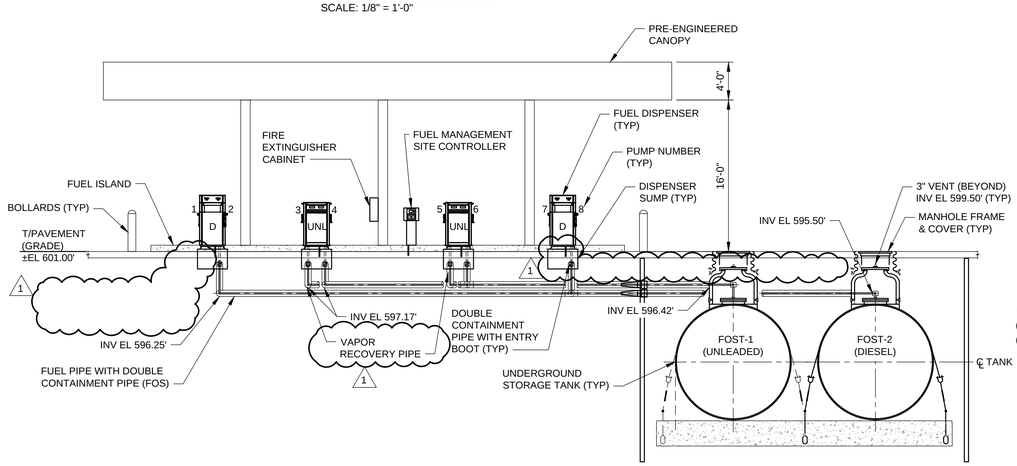
UNIT I.D.	LOCATION	SERVICE	TYPE	FUEL OIL		MOTOR				MANUFACTURER MODEL NO.	REMARKS/NOTES
				GPM	HEAD ('H2O)	BHP	HP	RPM	V/PH/HZ		
FOP-1	SERVICE CENTER NORTH FUEL ISLAND	FOST-1 (UNLEADED)	CENTRIFUGAL	40	60	--	2	--	208/3/60	MAXXUM STP	1,2
FOP-2	SERVICE CENTER NORTH FUEL ISLAND	FOST-2 (DIESEL)	CENTRIFUGAL	40	80	--	1 2	--	208/3/60	MAXXUM STP	1,2

NOTES: 1. EXPLOSION PROOF 2. SUBMERSIBLE



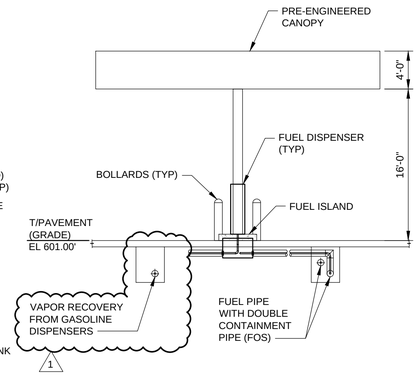
FUEL ISLAND PLAN

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



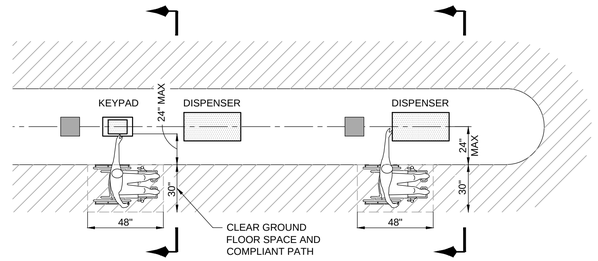
SECTION 1/M05

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



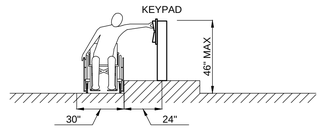
SECTION 2/M05

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



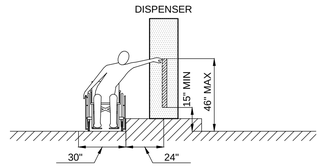
ADA PLAN REQUIREMENT

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



ADA KEYPAD SECTION

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



ADA DISPENSER SECTION

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

NOTES:

1. LOCATE EQUIPMENT ALONG THE CENTERLINE OF THE ISLAND.
2. RUN CANOPY DOWNSPOUTS INSIDE EACH COLUMN. CONNECT TO STORM DRAIN LINES BELOW GRADE.
3. FUEL DISPENSERS, KEYPADS, AND ALL OTHER EQUIPMENT TO BE IN CONFORMANCE WITH THE ILLINOIS ACCESSIBILITY CODE. PROVIDE ALL OPERABLE PARTS TO BE WITHIN A 24-INCH MAXIMUM REACH FROM THE EDGE OF THE CURB AND AT A HEIGHT RANGE OF 15-INCHES TO 46-INCHES FROM THE FINISHED GRADE. REFER TO ADA REQUIREMENT PLAN AND SECTIONS ON THIS SHEET.

BID SET

GREELEY AND HANSEN
A TYLin Company
100 SOUTH WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60606

DESIGNED BW
DRAWN GS
CHECKED MD

MICHAEL A. DERNAS 062.066817 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
SEAL AFFIXED OCT 6, 2023 EXP. 11-30-2023

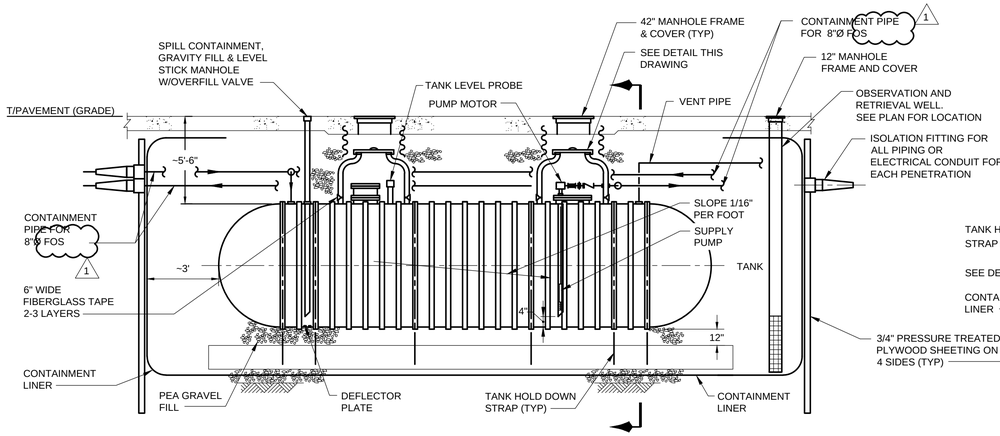
NO.	DATE	APPD	REVISION DESCRIPTION
1	11/6/23	MD	ADDENDUM NO.1

SCALE
8 0 8 16 FT 1/8"=1'-0"
4 0 4 8 FT 1/4"=1'-0"

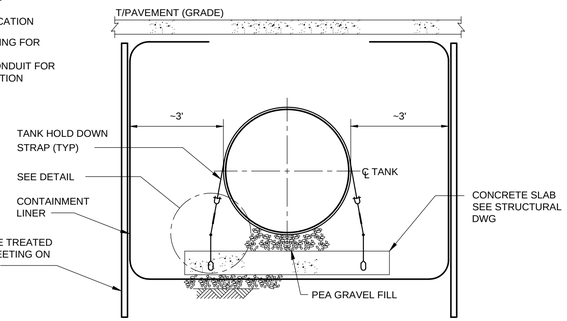
CITY OF EVANSTON, ILLINOIS
SERVICE CENTER
NORTH FUEL ISLAND REPLACEMENT

MECHANICAL
SCHEDULES AND SECTIONS

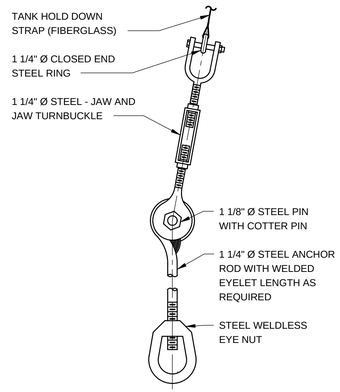
PROJECT NO.: 00280
DWG: M05
SHEET: 15 OF 20
DATE: OCT 2023 REV: 0



FUEL STORAGE TANK DETAIL
NOT TO SCALE



FUEL STORAGE TANK - SECTION
NOT TO SCALE



FUEL STORAGE TANK ANCHOR DETAIL
NOT TO SCALE

MANWAY AND CONTAINMENT SUMP DETAIL
NOT TO SCALE

BID SET

GREELEY AND HANSEN
A TYLin Company
100 SOUTH WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60606

DESIGNED	BW
DRAWN	GS
CHECKED	MD

MICHAEL A. DERMAN 062.066817 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
SEAL AFFIXED OCT 6, 2023 EXP. 11-30-2023

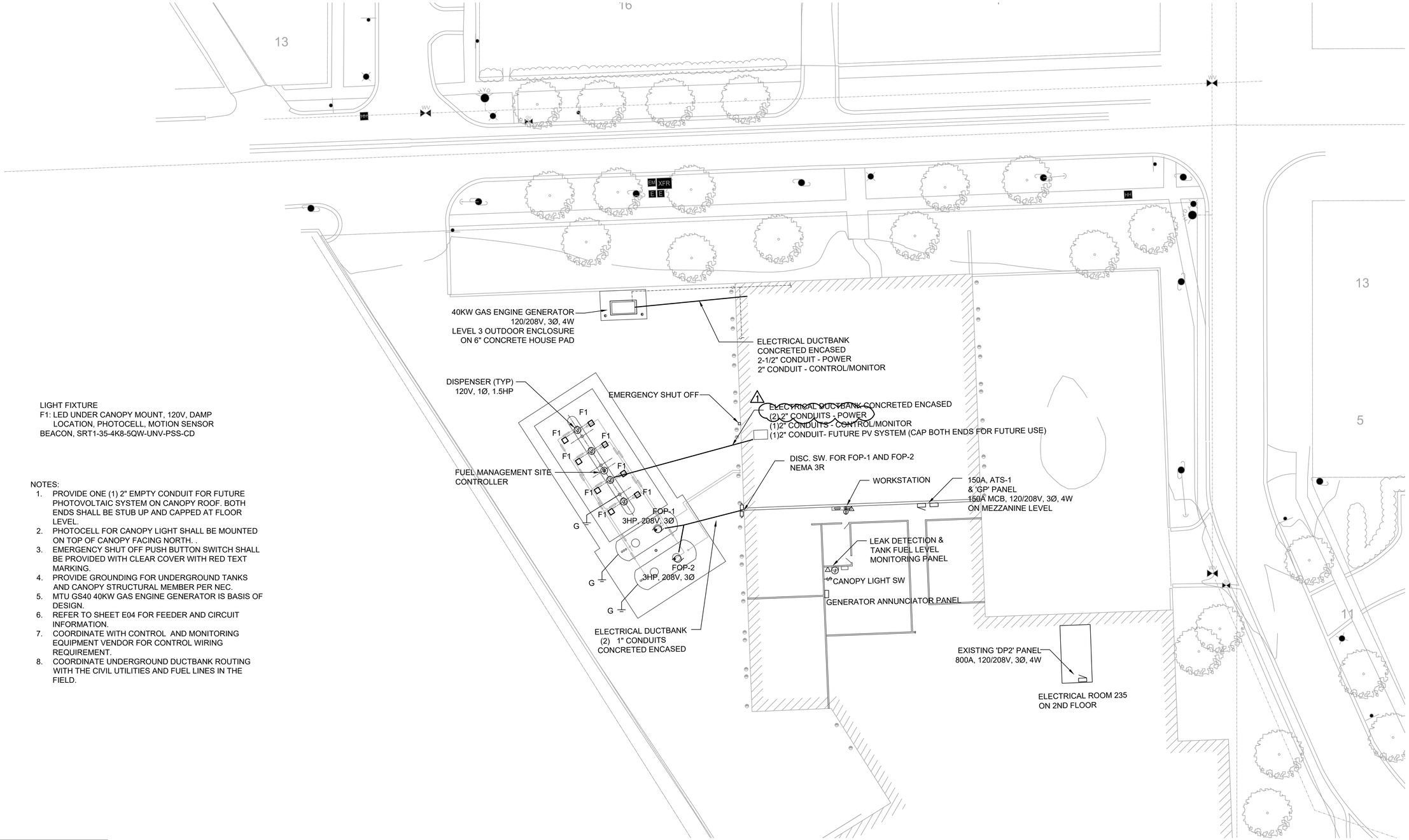
NO.	DATE	APPD	REVISION DESCRIPTION
1	11/6/23	MD	ADDENDUM NO.1

SCALE: NOT TO SCALE

CITY OF EVANSTON, ILLINOIS
SERVICE CENTER
NORTH FUEL ISLAND REPLACEMENT

MECHANICAL
DETAILS

PROJECT NO.: 00280
DWG: M06
SHEET: 16 OF 20
DATE: OCT 2023 REV: 0



LIGHT FIXTURE
F1: LED UNDER CANOPY MOUNT, 120V, DAMP LOCATION, PHOTOCELL, MOTION SENSOR BEACON, SRT1-35-4K8-5QW-UNV-PSS-CD

NOTES:

1. PROVIDE ONE (1) 2" EMPTY CONDUIT FOR FUTURE PHOTOVOLTAIC SYSTEM ON CANOPY ROOF. BOTH ENDS SHALL BE STUB UP AND CAPPED AT FLOOR LEVEL.
2. PHOTOCELL FOR CANOPY LIGHT SHALL BE MOUNTED ON TOP OF CANOPY FACING NORTH. .
3. EMERGENCY SHUT OFF PUSH BUTTON SWITCH SHALL BE PROVIDED WITH CLEAR COVER WITH RED TEXT MARKING.
4. PROVIDE GROUNDING FOR UNDERGROUND TANKS AND CANOPY STRUCTURAL MEMBER PER NEC.
5. MTU GS40 40KW GAS ENGINE GENERATOR IS BASIS OF DESIGN.
6. REFER TO SHEET E04 FOR FEEDER AND CIRCUIT INFORMATION.
7. COORDINATE WITH CONTROL AND MONITORING EQUIPMENT VENDOR FOR CONTROL WIRING REQUIREMENT.
8. COORDINATE UNDERGROUND DUCTBANK ROUTING WITH THE CIVIL UTILITIES AND FUEL LINES IN THE FIELD.

CCJM Engineers, Ltd.
Engineering Infrastructure Solutions
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312.669.0609 • 312.669.0525 Fax
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GREELEY AND HANSEN
A TYLin Company
100 SOUTH WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60606

DESIGNED	CCJM
DRAWN	CCJM
CHECKED	CCJM

ANIL AHUJA 062-046514 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
SEAL AFFIXED
OCTOBER 6, 2023

NO.	DATE	APPD	REVISION DESCRIPTION
1	11/6/23	AA	ADDENDUM NO. 1

SCALE

CITY OF EVANSTON, ILLINOIS

SERVICE CENTER
NORTH FUEL ISLAND REPLACEMENT

ELECTRICAL

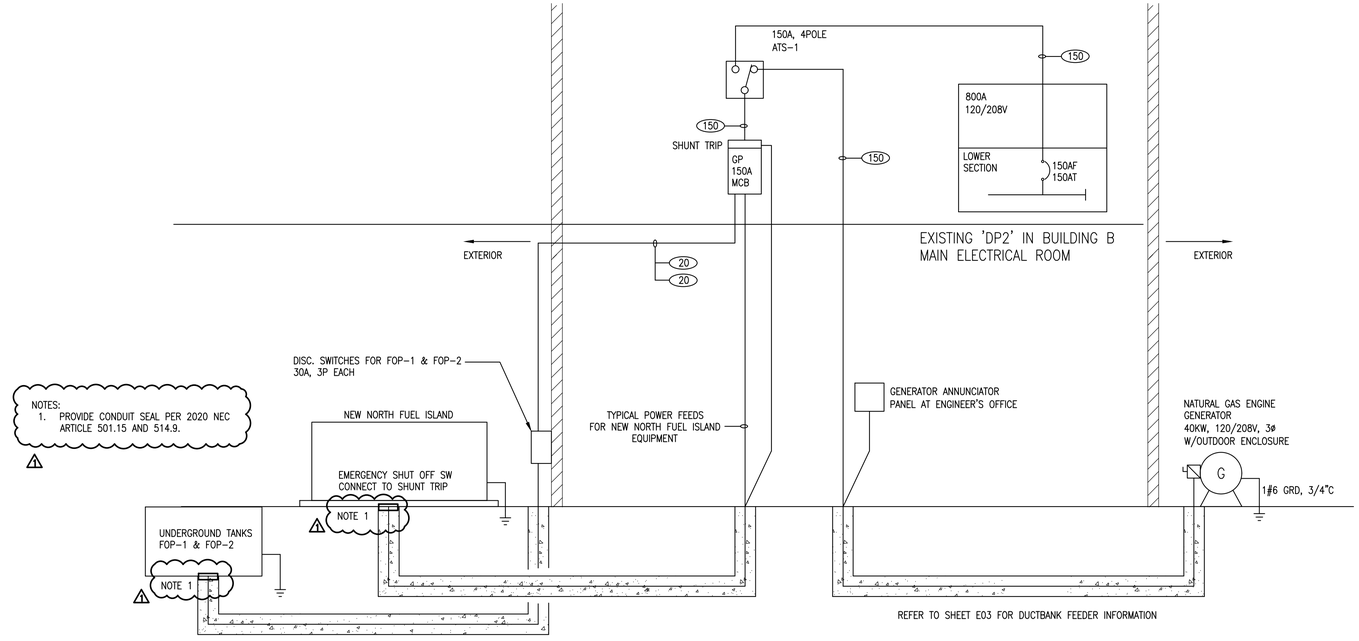
ELECTRICAL POWER PLAN

PROJECT NO.: 00280
DWG: E03
SHEET: 19 OF 20
DATE: OCTOBER 2023 REV: -

NEW PANELBOARD: GP				LOCATION: ELECTRICAL ROOM									
VOLTAGE: [X] 208Y/120V; 3Ø, 4 W; S/N [ ] 480Y/277V; 3Ø, 4 W; S/N													
MAINS: 150 AMPERES [ ] MAIN LUGS ONLY [X] SHUNT TRIP DEVICE [X] MAIN CIRCUIT BREAKER TRIP/FUSE RATING: 150													
INTERRUPTING RATINGS, SYMMETRICAL AMPERES: MAIN BREAKER: 42K AIC BRANCHES: 22K AIC													
MOUNTING: [X] SURFACE [ ] FLUSH [ ] BETWEEN FLANGES OF A COLUMN ENCLOSURE: NEMA 1													
SERVES	VOLTAMPS			CKT NO.	A	B	C	CKT NO.	VOLTAMPS			SERVES	
	A	B	C						A	B	C		
FUEL DISPENSER	1440			1	20			2	280			CANOPY LIGHTS	
FUEL DISPENSER		1440		3	20			4		1500		GENERATOR BATTERY CHARGE	
FUEL DISPENSER			1440	5	20			6			500	GENERATOR ENCLOSURE LGT/RCPT	
FUEL DISPENSER	1440			7	20			8	1500			GENERATOR HEATER	
CONTROL/MONITORING @ ISLAND		1000		9	20			10		1273			
FUEL PUMP (FOP-1)			1273	11	30			12			1273	FUEL PUMP (FOP-2)	
	1273			13				14	1273				
		1273		15	20			16					
LEAK DETECTION SYSTEM			1000	17	20			18					
CONTROL/MONITORING @ BUILDING	1000			19	20			20					
WORKSTATION		500		21	20			22					
				23	20			24					
				25	20			26					
				27	20			28					
				29	20			30					
				31	20			32					
				33	20			34					
				35	20			36					
				37	20			38					
				39	20			40					
				41	20			42					
TOTAL	5153	4213	3713						3053	2773	1773	TOTAL	

TOTAL CONNECTED LOAD: 57A

Ø A	8206	
Ø B	6986	
Ø C	5486	
TOTAL	20678	VOLTAMPS



SINGLE LINE DIAGRAM
SCALE: NTS

FEEDER SCHEDULE

USE THIS TABLE UNLESS NOTED OTHERWISE ON THE DRAWINGS/PLANS

CIRCUIT BREAKER/FUSE SIZE (AMPERES)	FEEDER SIZE (AWG OR KCMIL) (NOTE 8)	GROUND SIZE (AWG OR KCMIL)	CONDUIT SIZE	NUMBER OF SETS	SERVICE ENTRANCE GROUND (AWG OR KCMIL)	SERVICE ENTRANCE GROUND CONDUIT SIZE
15	3#12	1#12	3/4	1	1#8	3/4
20	3#12	1#12	3/4	1	1#8	3/4
25	3#12	1#12	3/4	1	1#8	3/4
30	3#10	1#10	3/4	1	1#8	3/4
35	3#8	1#10	1	1	1#8	3/4
40	3#8	1#10	1	1	1#8	3/4
45	3#6	1#10	1 1/4	1	1#8	3/4
50	3#6	1#10	1 1/4	1	1#8	3/4
60	3#4	1#8	1 1/4	1	1#8	3/4
70	3#4	1#8	1 1/2	1	1#8	3/4
80	3#3	1#8	1 1/2	1	1#8	3/4
90	3#2	1#8	1 1/2	1	1#8	3/4
100	3#1	1#8	2	1	1#6	3/4
110	3#1	1#6	2	1	1#6	3/4
125	3#1/0	1#6	2	1	1#6	3/4
150	3#1/0	1#6	2 1/2	1	1#6	3/4
175	3#2/0	1#6	2 1/2	1	1#4	3/4
200	3#3/0	1#6	2 1/2	1	1#4	3/4

NOTES:

1. FEEDERS AND BRANCH CIRCUITS ARE SIZED FOR INSTALLATION IN CONDUITS, NOT APPLICABLE FOR OTHER RACEWAYS.

2. ALL SERVICE ENTRANCE UNDERGROUND CONDUITS SHALL BE CONCRETE ENCASED.

3. ALL EXPOSED CONDUIT UP TO 8'-0 SHALL BE RGS AND ALL OUTDOOR CONDUIT SHALL BE RGS.

4. HVAC MOTOR CIRCUIT BREAKERS SHALL BE HACR TYPE.

5. ALL CONDUCTORS SHALL BE COPPER.

6. FEEDER SIZES BASED ON AMBIENT TEMPERATURE OF 30 DEG. C (80 DEG. F) COPPER THWN/THHN CONDUCTORS AT TEMPERATURE RATING OF 75 DEG.C

7. ALL FEEDER SIZES ARE BASED ON MAXIMUM 100' CIRCUIT LENGTH AND MAXIMUM THREE CURRENT CARRYING CONDUCTORS AND GROUND PER RACEWAY. INCREASE FEEDER SIZE TO NEXT HIGHER NUMBER FOR LONGER LENGTHS AND MORE THAN THREE CURRENT CARRYING CONDUCTORS. DERATE PER NEC.

8. INSTEAD OF 3 WIRES AS SHOWN IN THE SCHEDULE, 4 WIRES ARE REQUIRED FOR DISTRIBUTION SYSTEMS THAT REQUIRE NEUTRAL WIRE SUCH AS PANELBOARDS AND SPECIAL MECHANICAL EQUIPMENT. REFER TO EQUIPMENT SCHEDULE IN MECHANICAL DRAWINGS AND PANEL SCHEDULES AND ONE LINE DIAGRAMS IN ELECTRICAL DRAWINGS FOR EXACT FEEDER QUANTITY REQUIRED.

9. FEEDERS SERVING COMPUTER CIRCUIT PANELS WITH 200% NEUTRAL AND IG SHALL HAVE DOUBLE NEUTRAL AND DOUBLE GROUND UP TO SERVING TRANSFORMER OR MAIN SERVICE BOARD. CONDUIT SIZE SHALL MEET NEC REQUIREMENTS. CONTRACTOR TO VERIFY IN FIELD BEFORE BID.

10. IDENTIFICATION OF UNGROUNDED CONDUCTORS WHERE MORE THAN ONE NOMINAL VOLTAGE SYSTEM EXISTS IN BUILDING. EACH GROUNDED CONDUCTOR OF A MULTIWIRE BRANCH CIRCUIT WHERE ACCESSIBLE, SHALL BE IDENTIFIED BY PHASE AND SYSTEM. THIS MEANS OF IDENTIFICATION SHALL BE PERMITTED TO BE BY SEPARATE COLOR CODING, MARKING TAPE, TAGGING, OR OTHER APPROVED MEANS AND SHALL BE PERMANENTLY POSTED AT EACH BRANCH-CIRCUIT PANELBOARD.

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DESIGNED	CCJM
DRAWN	CCJM
CHECKED	CCJM

NO.	DATE	APPD	REVISION DESCRIPTION
1	11/6/23	AA	ADDENDUM NO. 1

SCALE

CITY OF EVANSTON, ILLINOIS

SERVICE CENTER
NORTH FUEL ISLAND REPLACEMENT

ELECTRICAL

ELECTRICAL SCHEDULES & SINGLE LINE DIAGRAM

PROJECT NO.: 00280
DWG: E04
SHEET: 20 OF 20
DATE: OCTOBER 2023 REV: -

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