

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE OWNER'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
16. ALL METALLIC ITEMS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL OR GALVANIZED. FOR FIELD CUTS OF GALVANIZED ITEMS, FIRST COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED.

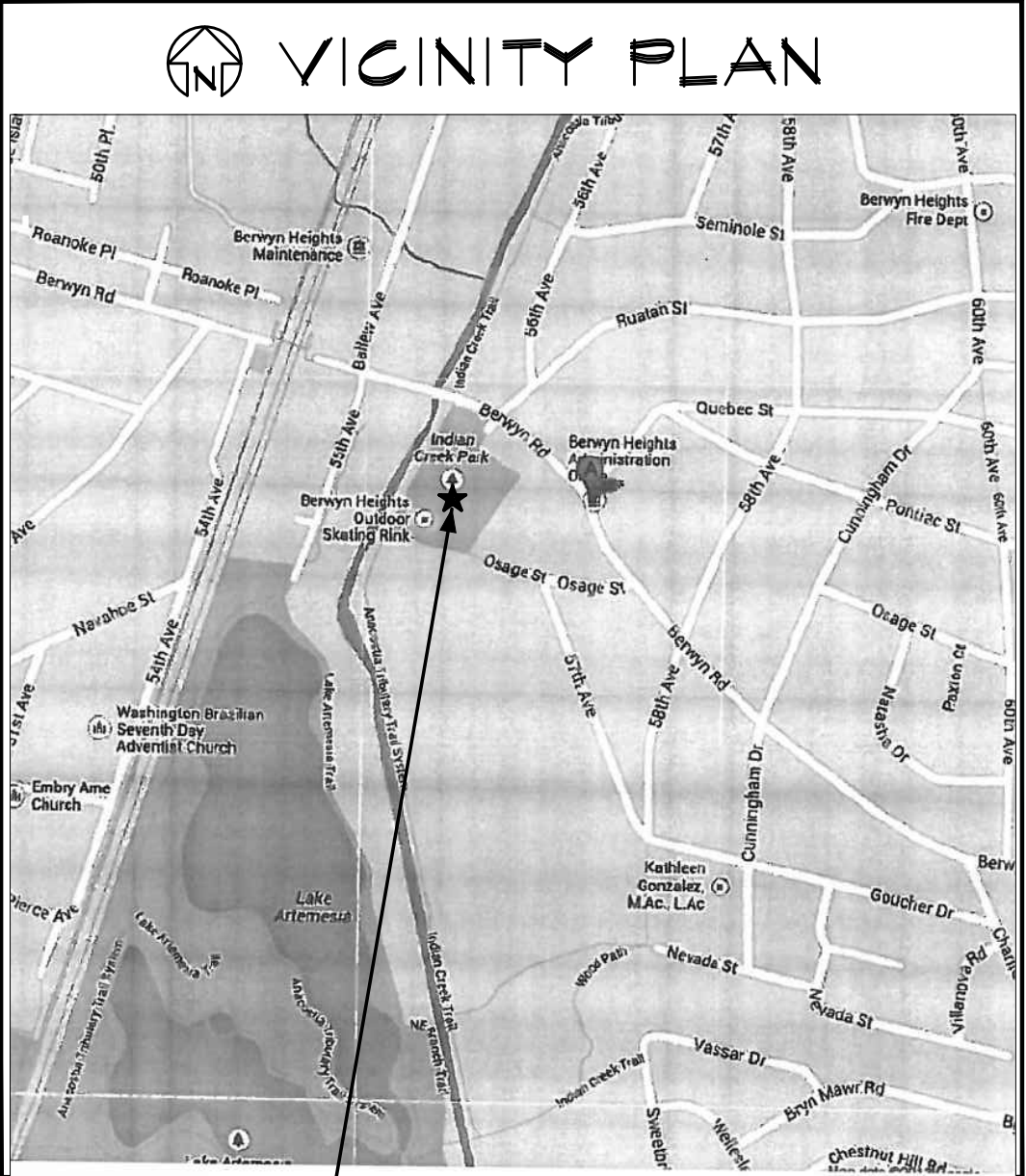
INDEX OF DRAWINGS

- CS-1 SITE LOCATION AND VICINITY PLAN, INDEX OF DRAWINGS
- C-1 SITE PLAN
- E-1 POWER PLAN AND NOTES
- E-2 DETAILS, SCHEDULES, RISERS, SYMBOLS AND ABBREVIATIONS
- P-1 GAS PLAN, AND NOTES

CODE ANALYSIS

- APPLICABLE BUILDING CODE: IBC 2012
- APPLICABLE ELECTRIC CODE: NEC 2002
- USE GROUP: A-4 (ASSEMBLY)
- CONSTRUCTION TYPE: IIA

COPYRIGHT ADG THE MAP PEOPLE  
PERMITTED USE NUMBER 20506142  
PRINCE GEORGE'S COUNTY  
ADG MAP NO.: 10 GRID: C-13



SITE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE INSTALLATION OF ONE (1) STANDBY NATURAL GAS GENERATOR AND ASSOCIATED APPURTENANCES REQUIRED TO OPERATE THIS FACILITY UPON LOSS OF NORMAL UTILITY POWER. THIS GENERATOR IS NOT BEING INSTALLED FOR LIFE SAFETY.

APPROVALS

BUILDING OWNER REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_ DATE \_\_\_\_\_

I HEREBY CERTIFY THAT  
THESE DOCUMENTS  
WERE PREPARED OR  
APPROVED BY ME,  
TIMOTHY SMITH, AND  
THAT I AM A FULLY  
LICENSED PROFESSIONAL  
ENGINEER UNDER THE  
LAWS OF THE STATE OF  
MARYLAND, LICENSE NO.  
21555, EXPIRATION DATE:  
MAY 8, 2015.

BERWYN HEIGHTS TOWNHALL  
GENERATOR PROJECT  
8601 57TH AVE, BERWYN HEIGHTS, MD  
P.G. COUNTY, MARYLAND 20740

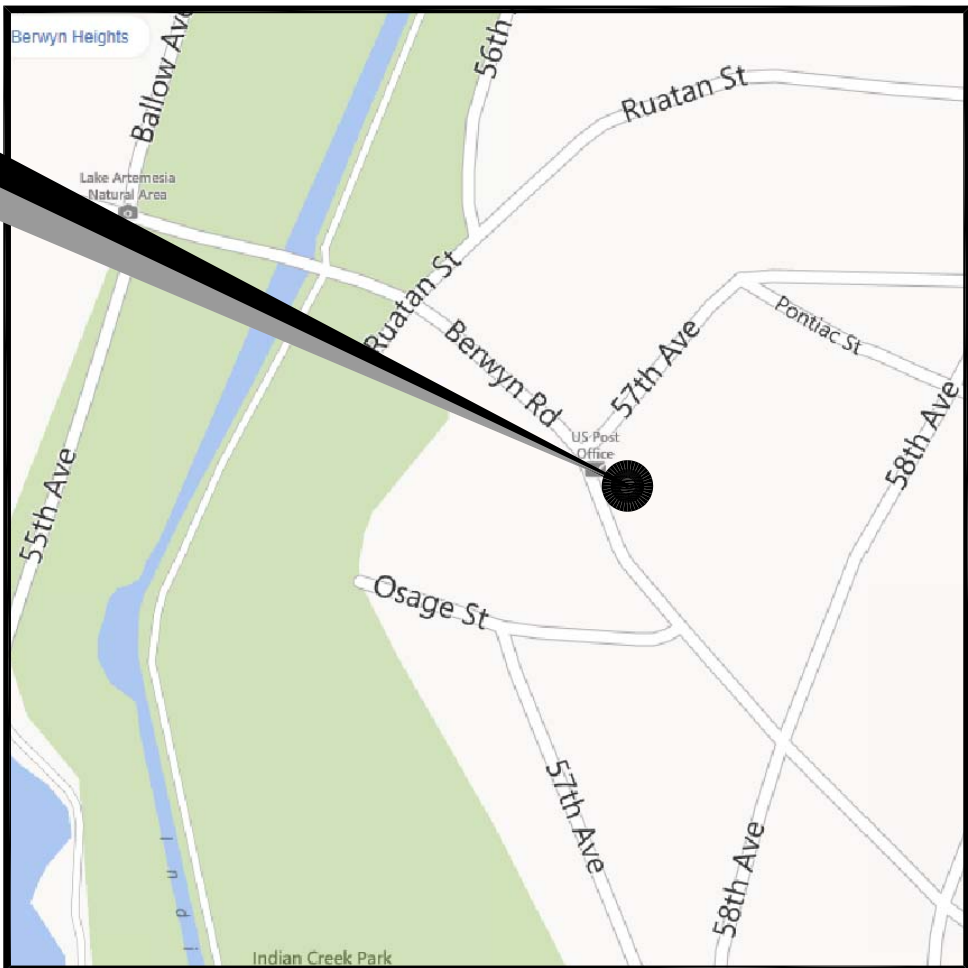
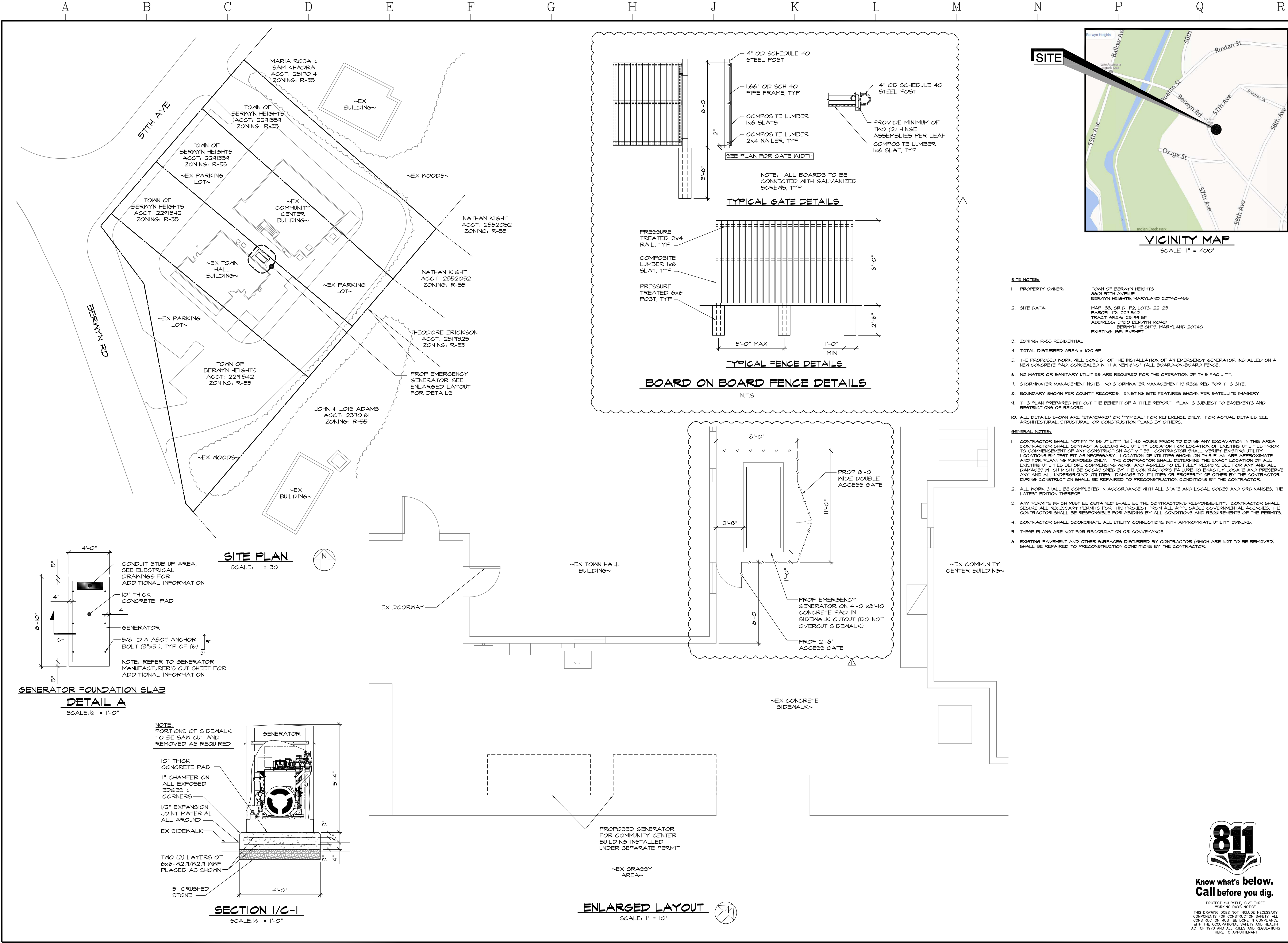
REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT SET	1/16/14
Δ	PERMIT	3/11/14
	COMMENTS	
Δ	FENCE ADDITION	8/11/14

LAST REV.:  
PROJECT NO:13094  
DATE: 3/11/14  
SCALE: AS NOTED

TITLE:  
SITE LOCATION  
AND VICINITY  
PLAN, INDEX OF  
DRAWINGS

SHEET:  
CS-1





- SITE NOTES:**
- PROPERTY OWNER: TOWN OF BERWYN HEIGHTS  
8401 5TH AVENUE  
BERWYN HEIGHTS, MARYLAND 20740-439
  - SITE DATA: MAP: 88, GRID: F2, LOTS: 22, 23  
PARCEL ID: 2241342  
TRACT AREA: 25,141 SF  
ADDRESS: 5700 BERWYN ROAD  
BERWYN HEIGHTS, MARYLAND 20740  
EXISTING USE: EXEMPT
  - ZONING: R-55 RESIDENTIAL
  - TOTAL DISTURBED AREA = 100 SF
  - THE PROPOSED WORK WILL CONSIST OF THE INSTALLATION OF AN EMERGENCY GENERATOR INSTALLED ON A NEW CONCRETE PAD, CONCEALED WITH A NEW 6'-0" TALL BOARD-ON-BOARD FENCE.
  - NO WATER OR SANITARY UTILITIES ARE REQUIRED FOR THE OPERATION OF THIS FACILITY.
  - STORMWATER MANAGEMENT NOTE: NO STORMWATER MANAGEMENT IS REQUIRED FOR THIS SITE.
  - BOUNDARY SHOWN PER COUNTY RECORDS. EXISTING SITE FEATURES SHOWN PER SATELLITE IMAGERY.
  - THIS PLAN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. PLAN IS SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.
  - ALL DETAILS SHOWN ARE "STANDARD" OR "TYPICAL" FOR REFERENCE ONLY. FOR ACTUAL DETAILS, SEE ARCHITECTURAL, STRUCTURAL, OR CONSTRUCTION PLANS BY OTHERS.
- GENERAL NOTES:**
- CONTRACTOR SHALL NOTIFY "MISS UTILITY" (811) 48 HOURS PRIOR TO DOING ANY EXCAVATION IN THIS AREA. CONTRACTOR SHALL CONTACT A SUBSURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS BY TEST PIT AS NECESSARY. LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND FOR PLANNING PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. DAMAGE TO UTILITIES OR PROPERTY OF OTHER BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.
  - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES, THE LATEST EDITION THEREOF.
  - ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUDICATING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
  - CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS.
  - THESE PLANS ARE NOT FOR RECORDATION OR CONVEYANCE.
  - EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.

**MRA**  
**MORRIS & RITCHIE ASSOCIATES, INC.**  
Civil / Structural Engineers  
1920-C East Joppa Road, Suite 505  
Towson, Maryland 21286  
410-821-1890  
410-821-1748 Fax

**PROFESSIONAL CERTIFICATION**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 82584, EXPIRATION DATE: 11/01/2015.

**BERWYN HEIGHTS - TOWN HALL GENERATOR PROJECT**  
5700 BERWYN ROAD, BERWYN HEIGHTS, MARYLAND 20740  
PRINCE GEORGES COUNTY

REVISIONS:		
NO.	DESCRIPTION	DATE
1	PERMIT DWGS	01/16/14
2	CLIENT COMMENTS	08/03/14

DESIGNED BY: CJS  
PROJECT NO: 18140  
DATE: 11/22/13  
SCALE: AS NOTED

TITLE: **Site Plan**  
SHEET: **C-1**

**811**  
Know what's below.  
Call before you dig.  
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE.  
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.





I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, TIMOTHY SHMIDT, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21599, EXPIRATION DATE: MAY 8, 2015.

BERWYN HEIGHTS TOWNHALL  
GENERATOR PROJECT  
8601 5TH AVE, BERWYN HEIGHTS, MD  
P.S. COUNTY, MARYLAND 20740

REVISIONS:		
NO.	DESCRIPTION	DATE
1	PERMIT SET	1/16/14
2	PERMIT	3/11/14
3	COMMENTS	
4	FENCE ADDITION	8/11/14

LAST REV.:  
PROJECT NO:13094  
DATE: 3/11/14  
SCALE: AS NOTED

TITLE:  
DETAILS,  
SCHEDULES,  
RISER,  
SYMBOLS AND  
ABBREVIATIONS

SHEET:

ELECTRICAL SYMBOLS LIST

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

- 120/208V PANELBOARD
- DRAWING NOTE
- ELECTRIC FEEDERS
- GAS SERVICE
- BRANCH CIRCUIT
- CONTROL/ALARM WIRING
- DISCONNECT-FUSED, UNFUSED
- AUTOMATIC TRANSFER SWITCH
- WIRE TROUGH
- JUNCTION BOX - WALL, CEILING
- CONTROL PANEL
- GROUND ROD

ABBREVIATIONS

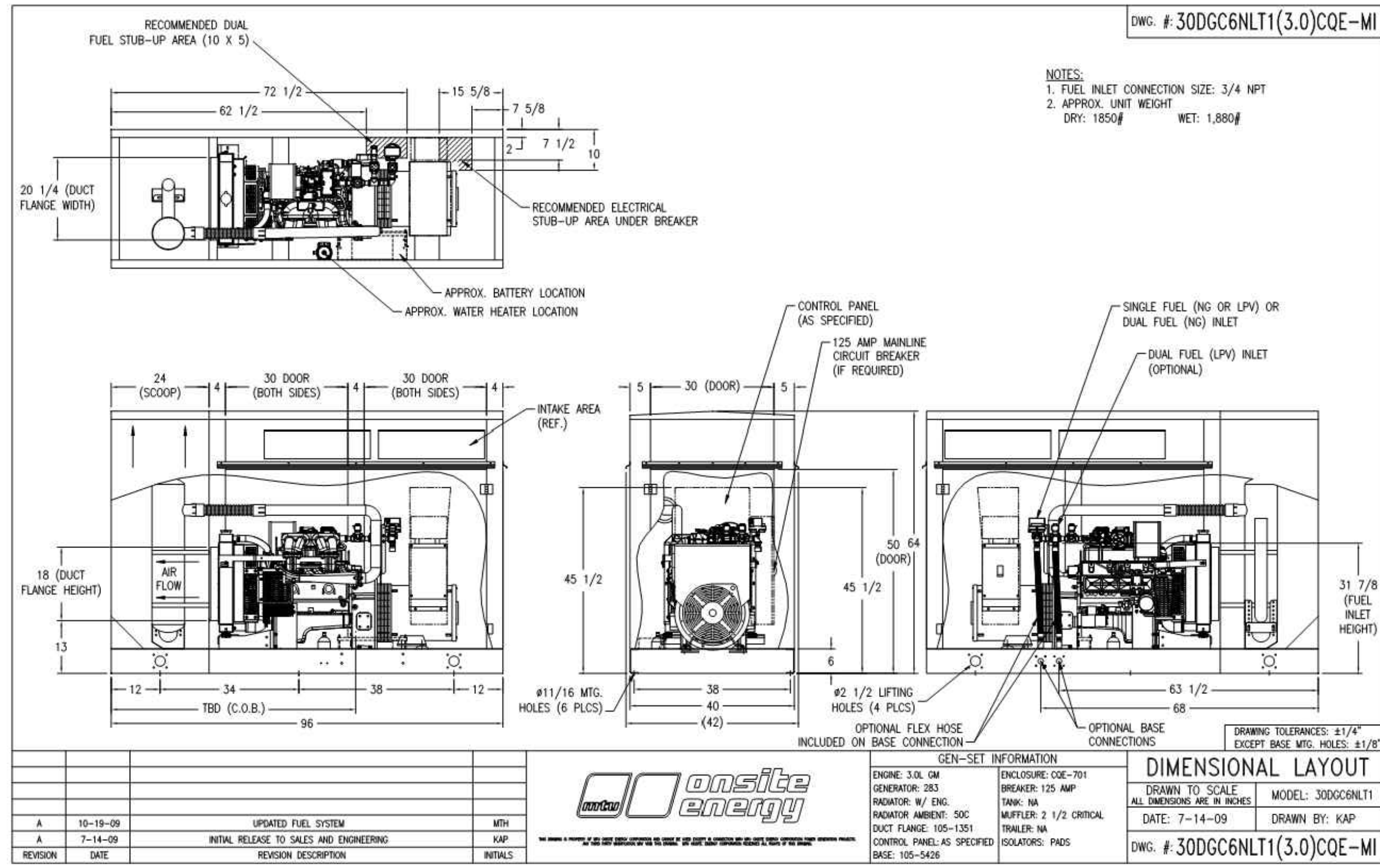
- GRD - GROUND
- TYP - TYPICAL
- U.O.N. - UNLESS OTHERWISE NOTED
- R - GROUND ROD
- DWG - DRAWING
- C, CDT - CONDUIT
- GRAP - GENERATOR REMOTE ANNUNCIATOR PANEL

ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE IN STRICT ACCORDANCE WITH THE 2002 NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. ALL WORK IS SUBJECT TO THE APPROVAL OF THE AT&T REPRESENTATIVE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SHALL PAY ALL ASSOCIATED CHARGES. CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL SPECIFIED MATERIALS AND EQUIPMENT. ALL MATERIALS SHALL BE U.L. LISTED.
- CONDUIT SHALL BE RIGID STEEL (HEAVY WALL) OR SCHEDULE 40 PVC FOR WORK EXPOSED TO WEATHER. NO ALUMINUM CONDUIT OR CONDUCTORS PERMITTED.
- WIRE, UNLESS OTHERWISE INDICATED, SHALL BE 600 VOLT, TYPE THINWALL INSULATION FOR EXTERIOR USE. CONDUCTORS SHALL BE SIZED AND RUN AS INDICATED. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY. ALL WIRING SHALL BE 90° TEMPERATURE RATING.
- THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDING USING DOUBLE LOCKNUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS.
- ALL EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES.
- CONDUIT ABOVE GRADE SHALL BE RIGID STEEL (HEAVY WALL) AND CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. NO ALUMINUM CONDUIT OR CONDUCTORS PERMITTED. ALL SCHEDULE 40 PVC CONDUIT EXTENDING ABOVE GRADE SHALL TRANSITION TO RIGID GALVANIZED STEEL WITHIN 12" ABOVE GRADE.
- ALL SCHEDULE 40 PVC CONDUIT EXTENDING ABOVE GRADE MAY TRANSITION TO SEALTIGHT CONDUIT FOR CONNECTIONS TO AT&T EQUIPMENT CABINETS WHEN THE PVC CONDUIT STUBS UP WITHIN 4'-0" OF THE AT&T EQUIPMENT CONNECTION. FINAL CONNECTION SHALL BE COMPLETED USING WEATHERPROOF FITTINGS AND CONNECTORS (MYERS

DRAWING NOTES

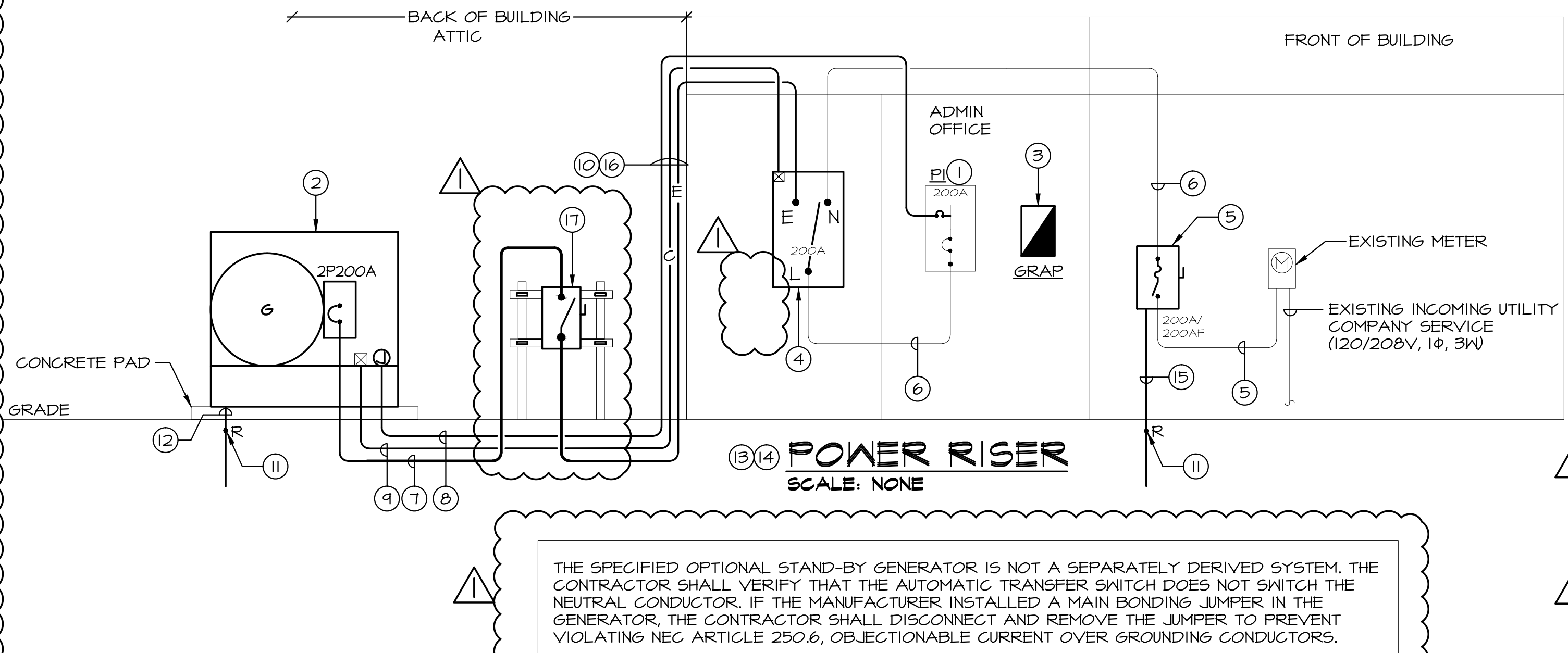
- EXISTING PANELBOARD TO REMAIN. REFER TO SCHEDULE, SHEET E-2 FOR ADDITIONAL INFORMATION.
- PROPOSED LOCATION OF NEW 120/208V, 1Ø, 3W, 30KW NATURAL GAS, STANDBY GENERATOR.
- CONTRACTOR PROVIDED AND INSTALLED GENERATOR REMOTE ANNUNCIATOR PANEL. EXTEND WIRING IN 1" AS DIRECTED BY GENERATOR MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT MOUNTING LOCATION WITH BUILDING'S REPRESENTATIVE IN THE FIELD.
- PROVIDE AND INSTALL 120/208V RATED, 1Ø, 2P, WITH 5/8" 200A AUTOMATIC TRANSFER SWITCH (NEMA 3R). (INTERCEPT EXISTING NORMAL SERVICE FEED TO EXISTING PANEL "PI".
- PROVIDE 240V/2P/200A SERVICE ENTRANCE RATED (NEMA 3R) DISCONNECT FUSED AT 200A. PROVIDE TWO (2) 200A TYPE RKS FUSES. (INTERCEPT EXISTING NORMAL SERVICE FEED FROM EXISTING METER TO PANEL "PI".
- REUSE EXISTING FEEDER (3#3/0 - 3" CDT) FROM NEW 2P/200A SERVICE DISCONNECT TO NEW 200A AUTOMATIC TRANSFER SWITCH AND EXISTING PANEL "PI". INSTALL #6AWG GRD BETWEEN 2P/200A FUSED DISCONNECT SWITCH TO ATS AND EXISTING PANEL "PI".
- PROVIDE 3#3/0 + #6GRD - 2" C. FROM NEW 30KW GENERATOR TO NEW 200A AUTOMATIC TRANSFER SWITCH.
- PROVIDE 1" CONDUIT WITH 2#12AWG+1#12GRD FOR BATTERY CHARGER AND BLOCK HEATER BRANCH CIRCUIT WIRING TO NEW 1P20A CIRCUIT BREAKER IN EXISTING PANEL "PI" IN ADMIN OFFICE.
- PROVIDE 1" CONDUIT WITH PULLSTRING FROM NEW GENERATOR TO NEW AUTOMATIC TRANSFER SWITCH FOR CONTROL AND ALARMS WIRING. COORDINATE CABLING REQUIREMENTS WITH GENERATOR MANUFACTURER IN THE FIELD.
- PROVIDE NEW GENERATOR CONDUITS ALONG BUILDING EXTERIOR AND PENETRATE INTO BUILDING ATTIC SPACE. SEAL EXTERIOR PENETRATIONS WEATHERPROOF. SECURE CONDUITS TO BUILDING EXTERIOR WALL USING KINDORF CHANNELS SPACED EVERY 10'-0" (MAX.). COORDINATE SECURING METHOD WITH EXISTING FIELD CONDITIONS AND OWNER'S REPRESENTATIVE.
- PROVIDE 8'-0" (MINIMUM) x 5/8" COPPER CLAD STEEL GROUND ROD. TOP OF GROUND ROD SHALL BE AT LEAST 30" BELOW GRADE.
- PROVIDE #6 AWG BARE, TINNED, SOLID, COPPER CONDUCTOR FROM GENERATOR FRAME (PER MANUFACTURER'S RECOMMENDATIONS) AND BOND (CADDWELD) TO NEW BURIED GROUND ROD.
- CONTRACTOR SHALL COORDINATE BUILDING SERVICE OUTAGE WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
- ALL CONDUITS ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE RIGID STEEL.
- EXTEND #4AWG BARE, TINNED, COPPER GROUND CONDUCTOR FROM GROUND BAR IN NEW 2P/200A FUSED DISCONNECT AND INCOMING WATER SERVICE, BOND (CADDWELD) TO NEW BURIED GROUND ROD.
- ROUTE GENERATOR CONDUITS DOWN ALONG BUILDING EXTERIOR WALL, BENEATH SIDEWALK AND TURN-UP WITHIN GENERATOR STUB-UP AREA. COORDINATE STUB-UP AREA WORK WITH GENERATOR SELECTION.
- PROVIDE 3P200A DISCONNECT FOR GENERATOR POWER WITH PHENOLIC NAMEPLATE "EMERGENCY POWER DISCONNECT GENERATOR -".



30KW GENERATOR DETAIL

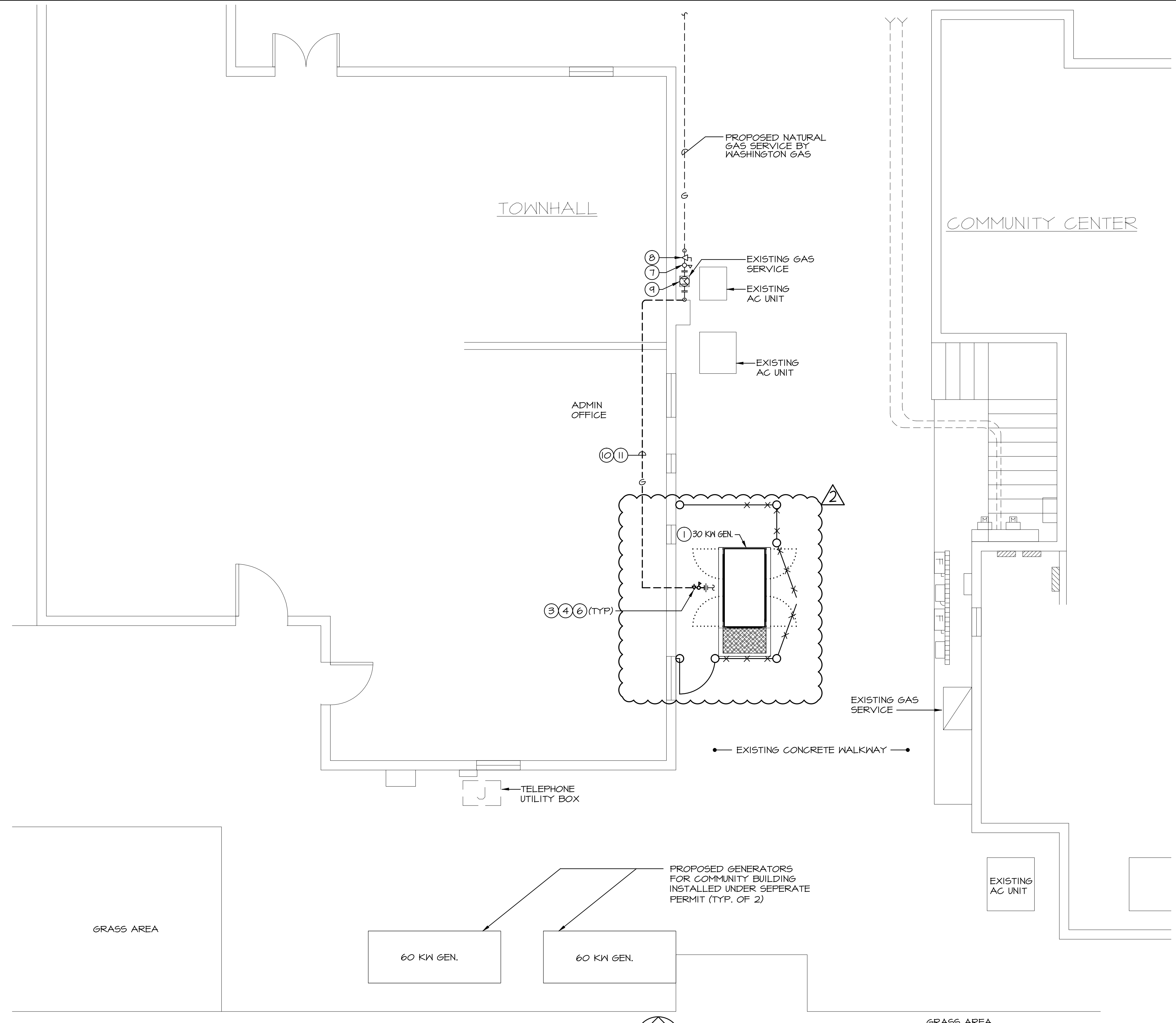
* PANEL P1									
(EXISTING) (RECESSED)									
120/208 VOLTS 1Ø 3 WIRE 200 AMP MCB									
DESCRIPTION	KVA	B	C	B	C	KVA	DESCRIPTION		
SPACE			1	2			SPACE		
GRAP	.2	20	3	4			SPACE		
GEN BATT CHGR/BLOCK HTR	1.5	20	5	6			SPACE		
EXISTING CIRCUIT	3.8	20	7	8	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	11	12	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	13	14	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	15	16	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	17	18	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	19	20	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	21	22	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	23	24	20	.72	EXISTING CIRCUIT		
EXISTING CIRCUIT	.72	20	25	26	40	3.31	AC UNIT		
HOT WATER	5.0	40	27	28	40	4.84	AC UNIT		
EXISTING LOAD: 28.47 KVA x 125% = 35.58 KVA									
PROPOSED LOAD: 1.70 KVA									
** TOTAL LOAD: 37.28 KVA = 179.2A @ 120/208V, 1Ø, 3W									

- \* PANELBOARD FEEDERS ARE SIZED FOR MAIN OVERCURRENT DEVICE PER N.E.C. ARTICLE 215-2
- \*\* ALL LOADS ARE BASED UPON N.E.C. ARTICLE 220
- CONTRACTOR SHALL PROVIDE UPDATED, TYPED PANEL DIRECTORY WITH RESPECTIVE SUITE #S AFTER PROJECT COMPLETION. COORDINATE WITH BUILDING ENGINEER.
- PROVIDE NEW BRANCH CIRCUIT BREAKER. MATCH EXISTING IN TYPE, STYLE AND MANUFACTURE.

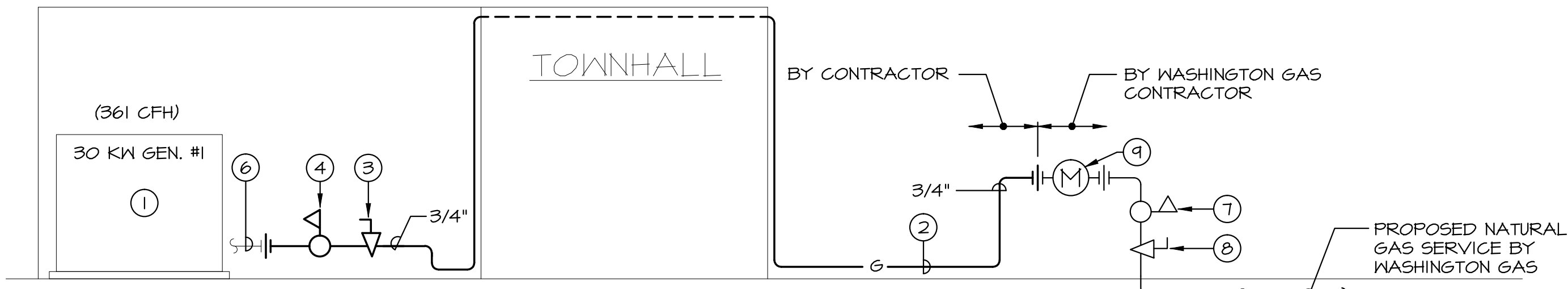


THE SPECIFIED OPTIONAL STAND-BY GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM. THE CONTRACTOR SHALL VERIFY THAT THE AUTOMATIC TRANSFER SWITCH DOES NOT SWITCH THE NEUTRAL CONDUCTOR. IF THE MANUFACTURER INSTALLED A MAIN BONDING JUMPER IN THE GENERATOR, THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE JUMPER TO PREVENT VIOLATING NEC ARTICLE 250.6, OBJECTIONABLE CURRENT OVER GROUNDING CONDUCTORS.





⑤ GAS PLAN  
SCALE: 1/4" = 1'-0"



⑤ GAS RISER DIAGRAM  
NO SCALE

SYMBOLS LIST & ABBREVIATIONS

⊙	CONNECT TO EXISTING SYMBOL	MBH	1000 BRITISH THERMAL UNITS/HOUR
— — —	UNION	PSIG	POUNDS PER SQUARE INCH GAUGE
— — —	GAS COCK	CFH	CUBIC FEET PER HOUR
— — —	PRESSURE REGULATOR	IFGC	INTERNATIONAL FUEL GAS CODE
— — —	NATURAL GAS PIPE (G)		

DRAWING NOTES

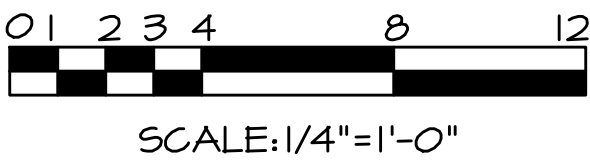
- CONTRACTOR PROVIDED, CONTRACTOR INSTALLED 30 KW NATURAL GAS POWERED GENERATOR. REFER TO DETAIL, SHEET E-2.
- COORDINATE FINAL GAS PIPE ROUTING ABOVE/BELOW GRADE TO GENERATOR WITH FINAL METER LOCATION/CONFIGURATION.
- PROVIDE GAS COCK SHUT-OFF VALVE PRIOR TO CONNECTION TO GENERATOR.
- PROVIDE PRESSURE REGULATOR SET PER MANUFACTURERS RECOMMENDATIONS.
- CONTRACTOR SHALL CLEARLY LABEL ALL GAS PIPE ABOVE GRADE USING STENCIL OR STICKERS WITH BLOCK STYLE LETTERING READING "NATURAL GAS".
- CONTRACTOR SHALL USE 1 1/2" FLEX CONNECTION SHIPPED WITH GENERATOR FOR FINAL CONNECTION TO ENGINE.
- PRESSURE REGULATOR PROVIDED BY UTILITY COMPANY (SET TO 2.0 PSI).
- GAS COCK SHUT-OFF VALVE PROVIDED BY UTILITY COMPANY.
- GAS METER PROVIDED BY UTILITY COMPANY.
- 3/4" PIPE UP ALONG EXTERIOR WALL AND WITHIN BUILDING ATTIC.
- 3/4" PIPE DOWN ALONG BUILDING EXTERIOR WALL AND BENEATH SIDEWALK.

GENERAL NOTES

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH LOCAL CODES AND LANDLORD'S LEASING SPECIFICATION AND DRAWINGS.
- MECHANICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
- EXISTING CONDITIONS CLARIFICATION: ALL EXISTING CONDITION FLOOR PLANS, EXISTING EQUIPMENT/DEVICE LOCATIONS AND SIZES, ETC. SHOWN ON THE CONTRACT DOCUMENTS INDICATE EXISTING CONDITIONS AS KNOWN. THE EXISTING CONDITIONS ARE NOT INTENDED TO BE "AS BUILT" AND MAY DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS, PARTICULARLY WHERE THEY MAY IMPACT THE PROPOSED WORK, PRIOR TO STARTING CONSTRUCTION. MINOR VARIATIONS CAN BE EXPECTED. ANY REQUIRED DEVIATION FROM THE CONTRACT DOCUMENTS AS A RESULT OF DIFFERING SITE CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- COORDINATE ALL NEW INSTALLATIONS WITH EXISTING PIPING, EQUIPMENT, DUCTWORK, CONDUIT, ETC. ADJUST NEW WORK AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS. EXISTING CONDITIONS HAVE BEEN OBTAINED FROM RECENT FIELD SURVEY.
- CLARIFICATION: IF THE CONTRACT DOCUMENTS ARE FOUND TO BE UNCLEAR, AMBIGUOUS, OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING WITH THAT PART OF THE WORK.
- THE ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT IN ACCORDANCE WITH THE INTENT OF THESE DRAWINGS.
- ALL EXPOSED EXTERIOR GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL AND SHALL BE SUPPORTED AS REQUIRED BY LOCAL CODES UNLESS OTHERWISE NOTED.
- ALL FERROUS GAS PIPING EXPOSED TO THE ATMOSPHERE OR OTHERWISE SUSCEPTIBLE TO CORROSION SHALL BE PROTECTED WITH A CORROSION RESISTANT YELLOW COATING WITH "NATURAL GAS" IDENTIFICATION EVERY 25 FEET.
- ALL COSTS ASSOCIATED WITH GAS UTILITY COMPANY INSTALLING THE NEW GAS SERVICE SHALL BE PAID BY CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION COORDINATION AND METER INSTALLATION WITH THE WASHINGTON GAS REPRESENTATIVE. AVAILABLE GUARANTEED GAS PRESSURE SHALL BE CONFIRMED PRIOR TO ORDERING OF ALL GAS MATERIALS (IE. PIPING, FITTINGS, ETC). THE CONTRACTOR SHALL BEAR THE SOLE RESPONSIBILITY FOR REPLACEMENT AND CONSTRUCTION COST OVERAGES DUE TO A LACK OF COORDINATION.

GENERAL NOTES

- TOTAL DEVELOPED LENGTH = 40 L.F. INCLUDING 50% FOR FITTINGS.
- INITIAL PRESSURE IS 2.0 PSI.
- ALL GAS PIPING AND ACCESSORIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH NF6C 2009 AND LOCAL CODES.
- ALL GAS PIPING SIZED IN ACCORDANCE WITH NF6C 2009, CHAPTER 4 (ASSUMING A 1.5 PSI PRESSURE DROP OVER ENTIRE LENGTH OF PIPING).
- GAS PIPING SIZES LISTED ARE BASED ON THE ENGINEER'S UNDERSTANDING OF THE PROPOSED ROUTING FROM THE GAS METER TO GENERATOR. CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR RECALCULATING GAS PIPE SIZE BASED ON ACTUAL ROUTING. UNDER NO CIRCUMSTANCES SHALL CONTRACTOR ASSUME THAT SIZES LISTED REFLECT EXACT PIPE LENGTHS AND NUMBER OF BENDS.



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, TIMOTHY SMITH, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21569, EXPIRATION DATE: MAY 8, 2015.

BERWYN HEIGHTS TOWNHALL  
GENERATOR PROJECT  
8601 5TH AVE, BERWYN HEIGHTS, MD  
P.S. COUNTY, MARYLAND 20740

REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT SET	1/16/14
Δ	PERMIT	3/11/14
	COMMENTS	
Δ	FENCE ADDITION	8/11/14

LAST REV.:  
PROJECT NO:13094  
DATE: 3/11/14  
SCALE: AS NOTED

TITLE:  
GAS PLAN,  
RISER, AND  
NOTES

SHEET: